



Full wwPDB EM Validation Report ⓘ

Mar 21, 2026 – 06:31 AM EDT

PDB ID : 8RQE / pdb_00008rqe
EMDB ID : EMD-19439
Title : Composite map of bacteriophage JBD30 capsid - neck complex
Authors : Valentova, L.; Fuzik, T.; Plevka, P.
Deposited on : 2024-01-18
Resolution : 8.00 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

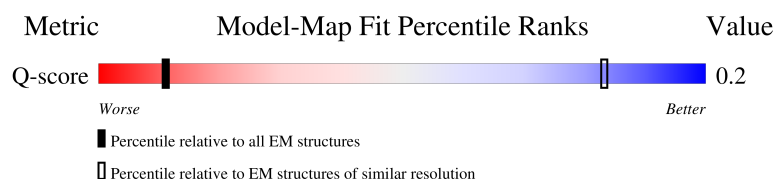
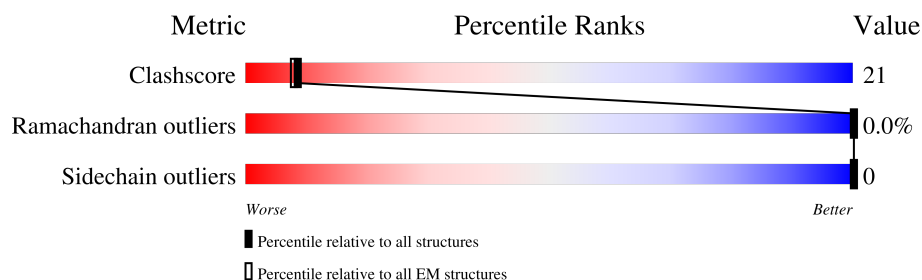
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 8.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	361 (7.50 - 8.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	aA	113	43% 32% 18% 50%
1	aB	113	37% 29% 20% 50%
1	aC	113	39% 35% 15% 50%
1	aD	113	38% 33% 17% 50%

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Mol	Chain	Length	Quality of chain
1	aE	113	36% 35% 15% 50%
1	aF	113	41% 30% 19% 50%
1	aG	113	38% 31% 19% 50%
1	aO	113	41% 27% 22% 50%
1	aP	113	40% 29% 20% 50%
1	aQ	113	41% 33% 17% 50%
1	aR	113	42% 32% 18% 50%
1	aS	113	35% 35% 15% 50%
1	aT	113	43% 29% 20% 50%
1	aU	113	35% 32% 18% 50%
1	aa	113	36% 31% 19% 50%
1	ab	113	41% 35% 15% 50%
1	ac	113	36% 33% 17% 50%
1	ad	113	27% 35% 15% 50%
1	ae	113	39% 31% 19% 50%
1	af	113	28% 31% 19% 50%
1	an	113	30% 27% 22% 50%
1	ao	113	36% 31% 19% 50%
1	ap	113	43% 35% 15% 50%
1	aq	113	39% 32% 18% 50%
1	ar	113	44% 35% 14% 50%
1	as	113	43% 29% 20% 50%
1	at	113	42% 33% 17% 50%
1	bE	113	38% 27% 22% 50%
1	bF	113	38% 29% 20% 50%

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Mol	Chain	Length	Quality of chain
1	bG	113	45% 35% 15% 50%
1	bH	113	36% 32% 18% 50%
1	bI	113	39% 35% 14% 50%
1	bJ	113	44% 30% 19% 50%
1	bK	113	42% 32% 18% 50%
1	bR	113	37% 32% 18% 50%
1	bS	113	40% 31% 19% 50%
1	bT	113	44% 35% 14% 50%
1	bU	113	38% 32% 18% 50%
1	bV	113	35% 35% 15% 50%
1	bW	113	41% 30% 19% 50%
1	bX	113	37% 31% 19% 50%
1	bc	113	38% 27% 22% 50%
1	bd	113	37% 31% 19% 50%
1	be	113	40% 33% 17% 50%
1	bf	113	40% 33% 17% 50%
1	bg	113	38% 35% 15% 50%
1	bh	113	41% 30% 19% 50%
1	bi	113	39% 32% 18% 50%
1	bq	113	40% 27% 22% 50%
1	br	113	41% 31% 19% 50%
1	bs	113	42% 35% 15% 50%
1	bt	113	43% 33% 17% 50%
1	bu	113	40% 35% 15% 50%
1	bv	113	42% 30% 19% 50%

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Mol	Chain	Length	Quality of chain
1	bw	113	35% 31% 19% 50%
1	cH	113	35% 27% 22% 50%
1	cI	113	37% 33% 17% 50%
1	cJ	113	42% 35% 15% 50%
1	cK	113	34% 31% 19% 50%
1	cL	113	37% 35% 15% 50%
1	cM	113	43% 30% 19% 50%
1	cN	113	37% 32% 18% 50%
1	cV	113	41% 27% 22% 50%
1	cW	113	43% 31% 19% 50%
1	cX	113	41% 35% 14% 50%
1	cY	113	38% 32% 18% 50%
1	cZ	113	42% 33% 17% 50%
1	cf	113	37% 27% 22% 50%
1	cg	113	37% 31% 19% 50%
1	ch	113	42% 35% 14% 50%
1	ci	113	36% 34% 16% 50%
1	cj	113	36% 33% 17% 50%
1	ck	113	41% 30% 19% 50%
1	cl	113	34% 31% 19% 50%
1	ct	113	35% 27% 22% 50%
1	cu	113	37% 29% 20% 50%
1	cv	113	42% 37% 12% 50%
1	cw	113	36% 32% 18% 50%
1	cx	113	34% 35% 15% 50%

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Mol	Chain	Length	Quality of chain
1	cy	113	35% 32%18%50%
1	cz	113	35% 33%17%50%
1	dA	113	42% 31%19%50%
1	dB	113	36% 35%15%50%
1	dC	113	42% 31%19%50%
1	dD	113	37% 32%18%50%
1	dL	113	36% 27%22%50%
1	dM	113	35% 30%19%50%
1	dN	113	41% 35%15%50%
1	dO	113	35% 32%18%50%
1	dP	113	30% 35%15%50%
1	dQ	113	37% 32%18%50%
1	dR	113	26% 32%18%50%
1	dZ	113	29% 27%22%50%
1	da	113	45% 30%19%50%
1	db	113	37% 32%18%50%
1	dj	113	39% 27%22%50%
1	dk	113	41% 32%18%50%
1	dl	113	40% 35%14%50%
1	dm	113	38% 32%18%50%
1	dn	113	35% 33%17%50%
1	do	113	36% 32%18%50%
1	dp	113	35% 32%18%50%
1	dx	113	35% 27%22%50%
1	dy	113	40% 31%19%50%

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Mol	Chain	Length	Quality of chain
1	dz	113	
1	eB	113	
1	eC	113	
1	eD	113	
1	eE	113	
1	eF	113	
1	eG	113	
1	eH	113	
1	eP	113	
1	eQ	113	
1	eR	113	
1	eS	113	
1	eT	113	
1	eU	113	
1	eV	113	
1	ea	113	
1	eb	113	
1	ec	113	
1	ed	113	
1	ee	113	
1	ef	113	
1	en	113	
1	eo	113	
1	ep	113	
1	eq	113	

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Mol	Chain	Length	Quality of chain
1	er	113	35% 35%15%50%
1	es	113	39% 30%19%50%
1	et	113	36% 32%18%50%
1	fF	113	34% 27%22%50%
1	fG	113	42% 30%19%50%
1	fH	113	45% 33%17%50%
1	fI	113	33% 32%18%50%
1	fJ	113	32% 35%15%50%
1	fK	113	38% 30%19%50%
1	fL	113	33% 31%19%50%
1	fT	113	36% 27%22%50%
1	fU	113	41% 31%19%50%
1	fV	113	43% 33%17%50%
1	fW	113	36% 34%16%50%
1	fX	113	35% 35%15%50%
1	fY	113	42% 29%20%50%
1	fZ	113	35% 32%18%50%
1	fd	113	33% 27%22%50%
1	fe	113	36% 31%19%50%
1	ff	113	42% 33%17%50%
1	fg	113	40% 33%17%50%
1	fh	113	40% 35%15%50%
1	fi	113	40% 29%20%50%
1	fj	113	35% 32%18%50%
1	fr	113	41% 27%22%50%

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Mol	Chain	Length	Quality of chain
1	fs	113	38% 31%19%50%
1	ft	113	42% 35%15%50%
1	fu	113	35% 33%17%50%
1	fv	113	37% 35%15%50%
1	fw	113	37% 29%20%50%
1	fx	113	38% 32%18%50%
1	gA	113	43% 30%19%50%
1	gB	113	41% 32%18%50%
1	gJ	113	43% 27%22%50%
1	gK	113	33% 31%19%50%
1	gL	113	40% 34%16%50%
1	gM	113	36% 34%16%50%
1	gN	113	35% 35%15%50%
1	gO	113	41% 30%19%50%
1	gP	113	36% 33%17%50%
1	gX	113	40% 27%22%50%
1	gY	113	41% 31%19%50%
1	gZ	113	42% 33%17%50%
1	gh	113	38% 27%22%50%
1	gi	113	41% 32%18%50%
1	gj	113	39% 37%12%50%
1	gk	113	39% 33%17%50%
1	gl	113	34% 35%15%50%
1	gm	113	35% 30%19%50%
1	gn	113	40% 32%18%50%

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Mol	Chain	Length	Quality of chain
1	gv	113	35% 27% 22% 50%
1	gw	113	39% 29% 20% 50%
1	gx	113	41% 35% 14% 50%
1	gy	113	37% 34% 16% 50%
1	gz	113	40% 35% 15% 50%
1	hA	113	44% 33% 17% 50%
1	hB	113	39% 31% 19% 50%
1	hC	113	39% 35% 14% 50%
1	hD	113	38% 32% 18% 50%
1	hE	113	42% 32% 18% 50%
1	hL	113	38% 32% 18% 50%
1	hM	113	34% 29% 20% 50%
1	hN	113	38% 35% 15% 50%
1	hO	113	42% 32% 18% 50%
1	hP	113	37% 35% 15% 50%
1	hQ	113	42% 30% 19% 50%
1	hR	113	38% 32% 18% 50%
1	hZ	113	40% 27% 22% 50%
1	ha	113	37% 32% 18% 50%
1	hb	113	28% 35% 15% 50%
1	hc	113	42% 30% 19% 50%
1	hd	113	34% 32% 18% 50%
1	hl	113	35% 27% 22% 50%
1	hm	113	35% 33% 17% 50%
1	hn	113	44% 35% 15% 50%

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Mol	Chain	Length	Quality of chain
1	ho	113	41% 31%19%50%
1	hp	113	41% 35%14%50%
1	hq	113	39% 30%19%50%
1	hr	113	42% 32%18%50%
1	hy	113	40% 32%18%50%
1	hz	113	40% 29%20%50%
1	iB	113	39% 27%22%50%
1	iC	113	42% 34%16%50%
1	iD	113	44% 34%16%50%
1	iE	113	39% 34%16%50%
1	iF	113	42% 33%17%50%
1	iG	113	42% 30%19%50%
1	iH	113	35% 31%19%50%
1	iP	113	37% 27%22%50%
1	iQ	113	39% 32%18%50%
1	iR	113	42% 37%12%50%
1	iS	113	35% 33%17%50%
1	iT	113	39% 35%15%50%
1	iU	113	36% 30%19%50%
1	iV	113	36% 32%18%50%
1	ia	113	40% 31%19%50%
1	ib	113	46% 35%15%50%
1	ic	113	41% 31%19%50%
1	id	113	30% 35%15%50%
1	ie	113	40% 32%18%50%

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Mol	Chain	Length	Quality of chain
1	if	113	35% 31%19%50%
1	in	113	35% 27%22%50%
1	io	113	41% 31%19%50%
1	ip	113	40% 35%14%50%
1	iq	113	36% 33%17%50%
1	ir	113	34% 35%15%50%
1	is	113	40% 30%19%50%
1	it	113	37% 31%19%50%
1	jF	113	42% 27%22%50%
1	jG	113	39% 30%19%50%
1	jH	113	41% 34%16%50%
1	jI	113	31% 33%17%50%
1	jJ	113	32% 35%15%50%
1	jK	113	35% 30%19%50%
1	jL	113	35% 32%18%50%
1	jT	113	35% 27%22%50%
1	jU	113	42% 33%17%50%
1	jV	113	44% 36%13%50%
1	jW	113	42% 31%19%50%
1	jX	113	35% 35%15%50%
1	jY	113	42% 32%18%50%
1	jZ	113	35% 31%19%50%
1	jd	113	35% 27%22%50%
1	je	113	37% 31%19%50%
1	jf	113	42% 35%15%50%

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Mol	Chain	Length	Quality of chain
1	jg	113	35% 32% 18% 50%
1	jh	113	37% 35% 15% 50%
1	ji	113	39% 30% 19% 50%
1	jj	113	36% 32% 18% 50%
1	jr	113	37% 27% 22% 50%
1	js	113	38% 31% 19% 50%
1	jt	113	42% 35% 15% 50%
1	ju	113	42% 33% 17% 50%
1	jv	113	41% 35% 15% 50%
1	jw	113	39% 30% 19% 50%
1	jx	113	36% 32% 18% 50%
1	kA	113	38% 32% 18% 50%
1	kI	113	38% 27% 22% 50%
1	kJ	113	38% 31% 19% 50%
1	kK	113	39% 35% 15% 50%
1	kL	113	34% 32% 18% 50%
1	kM	113	37% 34% 16% 50%
1	kN	113	34% 30% 19% 50%
1	kO	113	35% 32% 18% 50%
1	kW	113	34% 27% 22% 50%
1	kX	113	36% 29% 20% 50%
1	kY	113	41% 36% 13% 50%
1	kZ	113	35% 32% 18% 50%
1	kh	113	39% 27% 22% 50%
1	ki	113	35% 30% 19% 50%

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Mol	Chain	Length	Quality of chain
1	kj	113	46% 35% 15% 50%
1	kk	113	41% 32% 18% 50%
1	kl	113	42% 35% 14% 50%
1	km	113	37% 30% 19% 50%
1	kn	113	44% 34% 16% 50%
1	ku	113	42% 32% 18% 50%
1	kv	113	36% 29% 20% 50%
1	kw	113	40% 34% 16% 50%
1	kx	113	35% 31% 19% 50%
1	ky	113	34% 35% 15% 50%
1	kz	113	42% 30% 19% 50%
1	lA	113	42% 35% 15% 50%
1	lB	113	35% 33% 17% 50%
1	lC	113	34% 35% 15% 50%
1	lD	113	43% 29% 20% 50%
1	lE	113	39% 32% 18% 50%
1	lM	113	38% 27% 22% 50%
1	lN	113	40% 33% 17% 50%
1	lO	113	42% 34% 16% 50%
1	lP	113	36% 33% 17% 50%
1	lQ	113	38% 35% 15% 50%
1	lR	113	34% 30% 19% 50%
1	lS	113	36% 32% 18% 50%
1	la	113	40% 35% 15% 50%
1	lb	113	42% 30% 19% 50%

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Mol	Chain	Length	Quality of chain
1	lc	113	40% 31% 19% 50%
1	lk	113	39% 27% 22% 50%
1	ll	113	39% 33% 17% 50%
1	lm	113	46% 35% 14% 50%
1	ln	113	38% 32% 18% 50%
1	lo	113	38% 33% 17% 50%
1	lp	113	45% 30% 19% 50%
1	lq	113	41% 32% 18% 50%
1	ly	113	36% 27% 22% 50%
1	lz	113	39% 32% 18% 50%
1	mC	113	36% 27% 22% 50%
1	mD	113	40% 31% 19% 50%
1	mE	113	39% 37% 12% 50%
1	mF	113	33% 33% 17% 50%
1	mG	113	35% 35% 15% 50%
1	mH	113	38% 30% 19% 50%
1	mI	113	37% 32% 18% 50%
1	mQ	113	35% 27% 22% 50%
1	mR	113	40% 29% 20% 50%
1	mS	113	42% 37% 12% 50%
1	mT	113	37% 34% 16% 50%
1	mU	113	32% 35% 15% 50%
1	mV	113	38% 30% 19% 50%
1	mW	113	34% 32% 18% 50%
1	ma	113	35% 27% 22% 50%

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Mol	Chain	Length	Quality of chain
1	mb	113	36% 30% 19% 50%
1	mc	113	38% 33% 17% 50%
1	md	113	35% 33% 17% 50%
1	me	113	38% 35% 15% 50%
1	mf	113	41% 30% 19% 50%
1	mg	113	39% 32% 18% 50%
1	mo	113	41% 27% 22% 50%
1	mp	113	39% 32% 18% 50%
1	mq	113	40% 33% 17% 50%
1	mr	113	40% 33% 17% 50%
1	ms	113	41% 35% 15% 50%
1	mt	113	34% 29% 20% 50%
1	mu	113	38% 32% 18% 50%
1	nG	113	36% 27% 22% 50%
1	nH	113	35% 31% 19% 50%
1	nI	113	41% 35% 15% 50%
1	nJ	113	35% 32% 18% 50%
1	nK	113	27% 33% 17% 50%
1	nL	113	36% 29% 20% 50%
1	nM	113	26% 32% 18% 50%
1	nU	113	28% 27% 22% 50%
1	nV	113	35% 31% 19% 50%
1	nW	113	40% 35% 15% 50%
1	nX	113	36% 32% 18% 50%
1	nY	113	30% 35% 15% 50%

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Mol	Chain	Length	Quality of chain
1	nZ	113	41% 30% 19% 50%
1	ne	113	34% 27% 22% 50%
1	nf	113	30% 29% 20% 50%
1	ng	113	43% 34% 16% 50%
1	nh	113	39% 34% 16% 50%
1	ni	113	31% 33% 17% 50%
1	nj	113	35% 30% 19% 50%
1	nk	113	37% 32% 18% 50%
1	ns	113	42% 27% 22% 50%
1	nt	113	35% 31% 19% 50%
1	nu	113	37% 35% 14% 50%
1	nv	113	41% 32% 18% 50%
1	nw	113	33% 35% 15% 50%
1	nx	113	35% 30% 19% 50%
1	ny	113	36% 31% 19% 50%
1	oA	113	36% 35% 15% 50%
1	oB	113	37% 32% 18% 50%
1	oC	113	35% 32% 18% 50%
1	oK	113	36% 27% 22% 50%
1	oL	113	36% 33% 17% 50%
1	oM	113	41% 35% 15% 50%
1	oN	113	35% 32% 18% 50%
1	oO	113	29% 35% 15% 50%
1	oP	113	41% 30% 19% 50%
1	oQ	113	29% 31% 19% 50%

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Mol	Chain	Length	Quality of chain
1	oY	113	
1	oZ	113	
1	oa	113	
1	oi	113	
1	oj	113	
1	ok	113	
1	ol	113	
1	om	113	
1	on	113	
1	oo	113	
1	ow	113	
1	ox	113	
1	oy	113	
1	oz	113	
1	pA	113	
1	pB	113	
1	pC	113	
1	pD	113	
1	pE	113	
1	pF	113	
1	pG	113	
1	pO	113	
1	pP	113	
1	pQ	113	
1	pR	113	

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Mol	Chain	Length	Quality of chain
1	pS	113	
1	pT	113	
1	pU	113	
1	pa	113	
1	pb	113	
1	pc	113	
1	pd	113	
1	pe	113	
1	pm	113	
1	pn	113	
1	po	113	
1	pp	113	
1	pq	113	
1	pr	113	
1	ps	113	
1	qc	113	
2	aH	304	
2	aI	304	
2	aJ	304	
2	aK	304	
2	aL	304	
2	aM	304	
2	aN	304	
2	aV	304	
2	aW	304	

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Mol	Chain	Length	Quality of chain
2	aX	304	
2	aY	304	
2	aZ	304	
2	ag	304	
2	ah	304	
2	ai	304	
2	aj	304	
2	ak	304	
2	al	304	
2	am	304	
2	au	304	
2	av	304	
2	aw	304	
2	ax	304	
2	ay	304	
2	az	304	
2	bA	304	
2	bB	304	
2	bC	304	
2	bD	304	
2	bL	304	
2	bM	304	
2	bN	304	
2	bO	304	
2	bP	304	

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Mol	Chain	Length	Quality of chain
2	bQ	304	61% 65%32%
2	bY	304	57% 69%27%
2	bZ	304	68% 68%29%
2	ba	304	73% 67%30%
2	bb	304	67% 65%32%
2	bj	304	64% 68%28%
2	bk	304	67% 69%29%
2	bl	304	68% 64%33%
2	bm	304	69% 73%24%
2	bn	304	70% 71%26%
2	bo	304	63% 66%31%
2	bp	304	66% 66%31%
2	bx	304	65% 69%27%
2	by	304	68% 68%30%
2	bz	304	72% 64%33%
2	cA	304	62% 69%27%
2	cB	304	63% 68%30%
2	cC	304	72% 64%33%
2	cD	304	67% 71%26%
2	cE	304	73% 73%24%
2	cF	304	67% 66%31%
2	cG	304	65% 66%31%
2	cO	304	69% 68%28%
2	cP	304	59% 68%30%
2	cQ	304	77% 64%33%

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Mol	Chain	Length	Quality of chain
2	cR	304	71% 72% 25% .
2	cS	304	76% 72% 25% .
2	cT	304	70% 67% 30% .
2	cU	304	58% 64% 33% .
2	ca	304	69% 64% 33% .
2	cb	304	66% 73% 24% .
2	cc	304	72% 73% 24% .
2	cd	304	65% 67% 30% .
2	ce	304	61% 66% 31% .
2	cm	304	56% 68% 29% .
2	cn	304	60% 68% 30% .
2	co	304	69% 64% 33% .
2	cp	304	73% 72% 25% .
2	cq	304	68% 72% 25% .
2	cr	304	65% 67% 30% .
2	cs	304	67% 65% 32% .
2	dE	304	59% 69% 28% .
2	dF	304	59% 68% 30% .
2	dG	304	69% 64% 33% .
2	dH	304	71% 72% 25% .
2	dI	304	65% 73% 24% .
2	dJ	304	66% 66% 31% .
2	dK	304	60% 65% 32% .
2	dS	304	49% 70% 27% .
2	dT	304	34% 68% 29% .

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Mol	Chain	Length	Quality of chain
2	dU	304	
2	dV	304	
2	dW	304	
2	dX	304	
2	dY	304	
2	dc	304	
2	dd	304	
2	de	304	
2	df	304	
2	dg	304	
2	dh	304	
2	di	304	
2	dq	304	
2	dr	304	
2	ds	304	
2	dt	304	
2	du	304	
2	dv	304	
2	dw	304	
2	eA	304	
2	eI	304	
2	eJ	304	
2	eK	304	
2	eL	304	
2	eM	304	

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Mol	Chain	Length	Quality of chain
2	eN	304	64% 65% 32% .
2	eO	304	63% 66% 31% .
2	eW	304	60% 67% 29% .
2	eX	304	57% 68% 30% .
2	eY	304	69% 65% 32% .
2	eZ	304	70% 73% 24% .
2	eg	304	63% 70% 26% .
2	eh	304	63% 68% 29% .
2	ei	304	66% 65% 32% .
2	ej	304	69% 72% 25% .
2	ek	304	69% 73% 24% .
2	el	304	70% 67% 30% .
2	em	304	63% 64% 33% .
2	eu	304	63% 69% 28% .
2	ev	304	64% 69% 29% .
2	ew	304	70% 65% 32% .
2	ex	304	65% 72% 25% .
2	ey	304	72% 72% 25% .
2	ez	304	69% 67% 30% .
2	fA	304	72% 64% 33% .
2	fB	304	66% 73% 24% .
2	fC	304	75% 71% 26% .
2	fD	304	70% 67% 30% .
2	fE	304	65% 65% 32% .
2	fM	304	62% 69% 28% .

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Mol	Chain	Length	Quality of chain
2	fN	304	70% 67% 31% .
2	fO	304	70% 64% 33% .
2	fP	304	72% 73% 24% .
2	fQ	304	74% 74% 23% .
2	fR	304	66% 67% 30% .
2	fS	304	64% 65% 32% .
2	fa	304	73% 72% 25% .
2	fb	304	67% 66% 31% .
2	fc	304	66% 65% 32% .
2	fk	304	57% 71% 26% .
2	fl	304	65% 67% 30% .
2	fm	304	68% 64% 33% .
2	fn	304	70% 72% 25% .
2	fo	304	71% 72% 25% .
2	fp	304	64% 67% 30% .
2	fq	304	68% 64% 33% .
2	fy	304	70% 70% 27% .
2	fz	304	66% 68% 29% .
2	gC	304	68% 70% 27% .
2	gD	304	62% 68% 30% .
2	gE	304	70% 64% 33% .
2	gF	304	69% 74% 23% .
2	gG	304	68% 72% 25% .
2	gH	304	67% 67% 30% .
2	gI	304	63% 65% 32% .

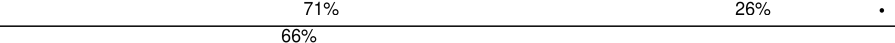
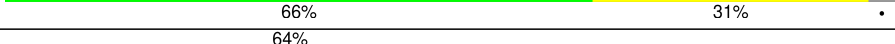
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Mol	Chain	Length	Quality of chain
2	gQ	304	
2	gR	304	
2	gS	304	
2	gT	304	
2	gU	304	
2	gV	304	
2	gW	304	
2	ga	304	
2	gb	304	
2	gc	304	
2	gd	304	
2	ge	304	
2	gf	304	
2	gg	304	
2	go	304	
2	gp	304	
2	gq	304	
2	gr	304	
2	gs	304	
2	gt	304	
2	gu	304	
2	hF	304	
2	hG	304	
2	hH	304	
2	hI	304	

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Mol	Chain	Length	Quality of chain
2	hJ	304	65% 
2	hK	304	62% 
2	hS	304	62% 
2	hT	304	67% 
2	hU	304	73% 
2	hV	304	64% 
2	hW	304	68% 
2	hX	304	73% 
2	hY	304	69% 
2	hZ	304	67% 
2	he	304	63% 
2	hf	304	58% 
2	hg	304	64% 
2	hh	304	72% 
2	hi	304	73% 
2	hj	304	76% 
2	hk	304	66% 
2	hl	304	66% 
2	hm	304	64% 
2	hn	304	49% 
2	ho	304	66% 
2	hp	304	69% 
2	hq	304	65% 
2	hr	304	75% 
2	hs	304	71% 
2	ht	304	69% 
2	hu	304	73% 
2	hv	304	66% 
2	hw	304	65% 
2	hx	304	63% 
2	hy	304	65%
2	ia	304	59%
2	ib	304	66%
2	ic	304	68%
2	id	304	69%
2	ie	304	69%
2	if	304	68%

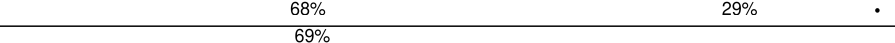
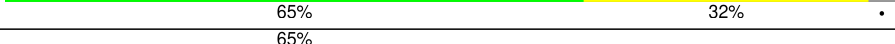
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Mol	Chain	Length	Quality of chain
2	iK	304	
2	iL	304	
2	iM	304	
2	iN	304	
2	iO	304	
2	iW	304	
2	iX	304	
2	iY	304	
2	iZ	304	
2	ig	304	
2	ih	304	
2	ii	304	
2	ij	304	
2	ik	304	
2	il	304	
2	im	304	
2	iu	304	
2	iv	304	
2	iw	304	
2	ix	304	
2	iy	304	
2	iz	304	
2	jA	304	
2	jB	304	
2	jC	304	

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Mol	Chain	Length	Quality of chain
2	jD	304	65% 
2	jE	304	68% 
2	jM	304	63% 
2	jN	304	60% 
2	jO	304	70% 
2	jP	304	67% 
2	jQ	304	74% 
2	jR	304	63% 
2	jS	304	58% 
2	ja	304	71% 
2	jb	304	63% 
2	jc	304	56% 
2	jk	304	61% 
2	jl	304	67% 
2	jm	304	69% 
2	jn	304	65% 
2	jo	304	67% 
2	jp	304	69% 
2	jq	304	66% 
2	jy	304	63% 
2	jz	304	64% 
2	kB	304	60% 
2	kC	304	61% 
2	kD	304	69% 
2	kE	304	68% 

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Mol	Chain	Length	Quality of chain
2	kF	304	72% 73%24%
2	kG	304	66% 67%30%
2	kH	304	61% 64%33%
2	kP	304	58% 68%28%
2	kQ	304	63% 69%29%
2	kR	304	69% 65%32%
2	kS	304	64% 74%23%
2	kT	304	71% 72%25%
2	kU	304	63% 66%31%
2	kV	304	53% 65%32%
2	ka	304	61% 68%29%
2	kb	304	65% 69%29%
2	kc	304	71% 65%32%
2	kd	304	72% 72%25%
2	ke	304	72% 71%26%
2	kf	304	64% 66%31%
2	kg	304	65% 66%31%
2	ko	304	52% 68%28%
2	kp	304	72% 65%32%
2	kq	304	73% 72%25%
2	kr	304	72% 73%24%
2	ks	304	68% 66%31%
2	kt	304	63% 64%33%
2	lF	304	62% 69%27%
2	lG	304	66% 68%30%

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Mol	Chain	Length	Quality of chain
2	lH	304	69% 64% 33% .
2	lI	304	72% 71% 26% .
2	lJ	304	69% 71% 26% .
2	lK	304	70% 66% 31% .
2	lL	304	68% 65% 32% .
2	lT	304	56% 69% 28% .
2	lU	304	68% 68% 30% .
2	lV	304	70% 64% 33% .
2	lW	304	66% 73% 24% .
2	lX	304	75% 73% 24% .
2	lY	304	64% 67% 30% .
2	lZ	304	63% 64% 33% .
2	ld	304	69% 69% 27% .
2	le	304	69% 67% 30% .
2	lf	304	72% 64% 33% .
2	lg	304	71% 72% 25% .
2	lh	304	72% 71% 26% .
2	li	304	66% 66% 31% .
2	lj	304	65% 64% 33% .
2	lr	304	63% 70% 27% .
2	ls	304	63% 68% 30% .
2	lt	304	71% 64% 33% .
2	lu	304	68% 73% 24% .
2	lv	304	71% 71% 26% .
2	lw	304	72% 67% 30% .

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Mol	Chain	Length	Quality of chain
2	lx	304	
2	mA	304	
2	mB	304	
2	mJ	304	
2	mK	304	
2	mL	304	
2	mM	304	
2	mN	304	
2	mO	304	
2	mP	304	
2	mX	304	
2	mY	304	
2	mZ	304	
2	mh	304	
2	mi	304	
2	mj	304	
2	mk	304	
2	ml	304	
2	mm	304	
2	mn	304	
2	mv	304	
2	mw	304	
2	mx	304	
2	my	304	
2	mz	304	

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Mol	Chain	Length	Quality of chain
2	nA	304	65% 68% 30%
2	nB	304	70% 65% 32%
2	nC	304	73% 71% 26%
2	nD	304	72% 72% 25%
2	nE	304	72% 66% 31%
2	nF	304	68% 66% 31%
2	nN	304	50% 71% 26%
2	nO	304	36% 68% 30%
2	nP	304	69% 66% 31%
2	nQ	304	64% 71% 26%
2	nR	304	71% 72% 25%
2	nS	304	62% 66% 31%
2	nT	304	55% 65% 32%
2	na	304	61% 72% 25%
2	nb	304	65% 71% 26%
2	nc	304	57% 67% 30%
2	nd	304	57% 66% 31%
2	nl	304	68% 70% 27%
2	nm	304	64% 68% 29%
2	nn	304	61% 65% 32%
2	no	304	74% 73% 24%
2	np	304	71% 73% 24%
2	nq	304	69% 67% 30%
2	nr	304	66% 64% 33%
2	nz	304	62% 70% 27%

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Mol	Chain	Length	Quality of chain
2	oD	304	65% 69% 28%
2	oE	304	69% 69% 29%
2	oF	304	70% 64% 33%
2	oG	304	72% 72% 25%
2	oH	304	71% 72% 25%
2	oI	304	72% 66% 31%
2	oJ	304	66% 64% 33%
2	oR	304	49% 69% 28%
2	oS	304	35% 67% 30%
2	oT	304	70% 65% 32%
2	oU	304	65% 72% 25%
2	oV	304	72% 72% 25%
2	oW	304	65% 66% 31%
2	oX	304	52% 66% 31%
2	ob	304	51% 69% 28%
2	oc	304	36% 68% 30%
2	od	304	67% 65% 32%
2	oe	304	66% 72% 25%
2	of	304	73% 72% 25%
2	og	304	64% 66% 31%
2	oh	304	55% 66% 31%
2	op	304	66% 68% 28%
2	oq	304	68% 68% 30%
2	or	304	68% 64% 33%
2	os	304	73% 72% 25%

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Mol	Chain	Length	Quality of chain
2	ot	304	71%
2	ou	304	71%
2	ov	304	67%
2	pH	304	62%
2	pI	304	63%
2	pJ	304	69%
2	pK	304	74%
2	pL	304	69%
2	pM	304	72%
2	pN	304	63%
2	pV	304	62%
2	pW	304	70%
2	pX	304	67%
2	pY	304	71%
2	pZ	304	70%
2	pf	304	56%
2	pg	304	62%
2	ph	304	60%
2	pi	304	67%
2	pj	304	67%
2	pk	304	63%
2	pl	304	59%
2	pt	304	61%
2	pu	304	67%
2	pV	304	77%

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Mol	Chain	Length	Quality of chain
2	pw	304	79% 73% 24%
2	px	304	76% 73% 24%
2	py	304	72% 67% 30%
2	pz	304	72% 65% 32%
2	qa	304	72% 67% 30%
2	qb	304	65% 64% 33%
3	qd	157	30% 55% 32% 13%
3	qe	157	34% 54% 32% 13%
3	qf	157	24% 55% 32% 13%
3	qg	157	29% 55% 32% 13%
3	qh	157	30% 54% 33% 13%
3	qi	157	32% 54% 33% 13%
4	qj	256	17% 70% 28%
4	qk	256	12% 70% 28%
4	ql	256	17% 70% 28%
4	qm	256	19% 70% 28%
4	qn	256	18% 70% 28%
4	qo	256	15% 70% 28%
5	qB	526	26% 60% 17% 23%
5	qD	526	29% 59% 18% 23%
5	qF	526	32% 60% 17% 23%
5	qH	526	30% 60% 17% 23%
5	qJ	526	28% 60% 17% 23%
5	qL	526	25% 60% 17% 23%
5	qp	526	30% 59% 18% 23%

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Mol	Chain	Length	Quality of chain
5	qr	526	
5	qt	526	
5	qv	526	
5	qx	526	
5	qz	526	
6	qA	138	
6	qC	138	
6	qE	138	
6	qG	138	
6	qI	138	
6	qK	138	
6	qM	138	
6	qq	138	
6	qs	138	
6	qu	138	
6	qw	138	
6	qy	138	

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 1224397 atoms, of which 17454 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Mu-like prophage FluMu N-terminal domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	aa	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ab	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ac	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ad	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ae	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	af	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	an	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ao	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ap	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aq	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ar	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	as	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	at	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aA	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aB	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aC	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aD	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	aE	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aF	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aG	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aO	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aP	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aQ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aR	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aS	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aT	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	aU	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bc	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bd	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	be	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bf	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bg	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bh	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bi	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bq	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	br	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bs	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bt	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	bu	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bv	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bw	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bE	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bF	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bG	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bH	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bI	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bJ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bK	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bR	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bS	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bT	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bU	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bV	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bW	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	bX	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cf	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cg	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ch	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ci	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	cj	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ck	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cl	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ct	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cu	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cv	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cw	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cx	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cy	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cz	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cH	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cI	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cJ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cK	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cL	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cM	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cN	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cV	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cW	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cX	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	cY	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	cZ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	da	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	db	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dj	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dk	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dl	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dm	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dn	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	do	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dp	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dx	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dy	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dz	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dA	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dB	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dC	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dD	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dL	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dM	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dN	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dO	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	dP	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dQ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dR	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	dZ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ea	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eb	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ec	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ed	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ee	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ef	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	en	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eo	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ep	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eq	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	er	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	es	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	et	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eB	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eC	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eD	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eE	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	eF	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eG	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eH	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eP	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eQ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eR	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eS	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eT	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eU	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	eV	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fd	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fe	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ff	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fg	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fh	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fi	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fj	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fr	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fs	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ft	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fu	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	fv	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fw	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fx	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fF	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fG	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fH	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fI	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fJ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fK	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fL	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fT	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fU	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fV	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fW	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fX	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fY	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	fZ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gh	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gi	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gj	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gk	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	gl	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gm	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gn	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gv	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gw	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gx	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gy	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gz	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gA	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gB	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gJ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gK	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gL	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gM	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gN	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gO	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gP	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gX	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gY	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	gZ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ha	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	hb	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hc	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hd	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hl	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hm	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hn	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ho	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hp	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hq	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hr	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hy	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hz	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hA	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hB	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hC	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hD	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hE	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hL	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hM	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hN	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hO	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	hP	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hQ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hR	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	hZ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ia	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ib	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ic	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	id	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ie	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	if	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	in	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	io	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ip	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iq	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ir	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	is	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	it	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iB	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iC	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iD	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iE	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	iF	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iG	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iH	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iP	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iQ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iR	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iS	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iT	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iU	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	iV	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jd	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	je	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jf	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jg	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jh	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ji	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jj	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jr	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	js	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jt	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ju	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	jv	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jw	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jx	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jF	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jG	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jH	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jI	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jJ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jK	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jL	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jT	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jU	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jV	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jW	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jX	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jY	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	jZ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kh	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ki	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kj	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kk	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	kl	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	km	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kn	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ku	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kv	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kw	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kx	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ky	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kz	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kA	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kI	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kJ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kK	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kL	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kM	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kN	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kO	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kW	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kX	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kY	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	kZ	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	la	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lb	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lc	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lk	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ll	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lm	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ln	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lo	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lp	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lq	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ly	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lz	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lA	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lB	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lC	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lD	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lE	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lM	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lN	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lO	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lP	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	lQ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lR	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	lS	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ma	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mb	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mc	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	md	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	me	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mf	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mg	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mo	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mp	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mq	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mr	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ms	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mt	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mu	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mC	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mD	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mE	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mF	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	mG	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mH	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mI	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mQ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mR	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mS	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mT	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mU	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mV	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	mW	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ne	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nf	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ng	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nh	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ni	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nj	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nk	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ns	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nt	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nu	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nv	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	nw	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nx	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ny	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nG	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nH	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nI	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nJ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nK	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nL	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nM	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nU	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nV	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nW	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nX	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nY	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	nZ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oa	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oi	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oj	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ok	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ol	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	om	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	on	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oo	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ow	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ox	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oy	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oz	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oA	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oB	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oC	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oK	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oL	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oM	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oN	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oO	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oP	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oQ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oY	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	oZ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pa	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pb	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	pc	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pd	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pe	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pm	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pn	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	po	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pp	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pq	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pr	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	ps	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pA	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pB	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pC	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pD	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pE	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pF	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pG	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pO	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pP	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pQ	56	Total 433	C 268	N 75	O 87	S 3	0	0
1	pR	56	Total 433	C 268	N 75	O 87	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	pS	56	Total	C	N	O	S	0	0
			433	268	75	87	3		
1	pT	56	Total	C	N	O	S	0	0
			433	268	75	87	3		
1	pU	56	Total	C	N	O	S	0	0
			433	268	75	87	3		
1	qc	56	Total	C	N	O	S	0	0
			433	268	75	87	3		

- Molecule 2 is a protein called Bacteriophage Mu GpT domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	ag	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ah	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	ai	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aj	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ak	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	al	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	am	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	au	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	av	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aw	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ax	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ay	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	az	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aH	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aI	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	aJ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aK	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aL	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aM	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aN	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aV	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aW	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	aX	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aY	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	aZ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ba	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bb	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bj	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bk	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	bl	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bm	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bn	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bo	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bp	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bx	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	by	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	bz	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bA	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bB	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bC	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bD	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bL	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bM	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bN	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bO	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bP	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bQ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bY	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	bZ	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	ca	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cb	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cc	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cd	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ce	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cm	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cn	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	co	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	cp	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cq	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cr	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cs	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cA	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cB	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	cC	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cD	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cE	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cF	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cG	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cO	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cP	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	cQ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cR	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cS	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cT	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	cU	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dc	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dd	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	de	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	df	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dg	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dh	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	di	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dq	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dr	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	ds	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dt	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	du	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dv	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dw	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dE	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dF	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	dG	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dH	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dI	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dJ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dK	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dS	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dT	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	dU	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	dV	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dW	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dX	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	dY	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eg	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eh	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	ei	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ej	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ek	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	el	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	em	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eu	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ev	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	ew	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ex	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ey	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ez	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eA	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eI	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eJ	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	eK	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	eL	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eM	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eN	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eO	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eW	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eX	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	eY	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	eZ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fa	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fb	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fc	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fk	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fl	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	fm	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fn	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fo	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fp	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fq	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fy	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fz	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	fA	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	fB	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fC	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fD	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fE	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fM	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fN	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	fO	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fP	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fQ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fR	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	fS	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ga	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gb	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	gc	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gd	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ge	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gf	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gg	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	go	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gp	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	gq	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	gr	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gs	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gt	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gu	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gC	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gD	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	gE	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gF	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gG	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gH	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gI	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gQ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gR	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	gS	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gT	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gU	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gV	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	gW	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	he	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hf	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	hg	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	hh	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hi	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hj	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hk	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hs	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ht	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hu	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hv	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hw	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hx	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hF	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hG	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hH	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hI	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hJ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hK	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hS	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hT	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	hU	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hV	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hW	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	hX	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	hY	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ig	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ih	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	ii	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ij	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ik	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	il	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	im	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	iu	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	iv	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	iw	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ix	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	iy	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	iz	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	iA	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	iI	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	iJ	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	iK	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	iL	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	iM	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	iN	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	iO	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	iW	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	iX	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	iY	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	iZ	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	ja	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jb	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jc	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jk	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jl	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	jm	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jn	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jo	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jp	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jq	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jy	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jz	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	jA	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jB	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	jC	295	Total 2305	C 1463	N 394	O 438	S 10	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	jD	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	jE	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	jM	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	jN	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	jO	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	jP	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	jQ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	jR	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	jS	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ka	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	kb	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	kc	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	kd	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ke	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	kf	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	kg	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ko	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	kp	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	kq	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	kr	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ks	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	kt	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kB	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kC	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	kD	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kE	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kF	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kG	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kH	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kP	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kQ	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	kR	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kS	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kT	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kU	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	kV	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	ld	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	le	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	lf	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	lg	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	lh	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	li	295	Total 2305	C 1463	N 394	O 438	S 10	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	lj	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lr	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	ls	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	lt	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lu	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lv	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lw	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lx	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lF	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lG	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	lH	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lI	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lJ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lK	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lL	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lT	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lU	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	lV	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lW	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lX	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	lY	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	lZ	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mh	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mi	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	mj	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mk	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	ml	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mm	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mn	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mv	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mw	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	mx	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	my	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mz	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mA	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mB	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mJ	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mK	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	mL	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mM	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mN	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	mO	295	Total 2305	C 1463	N 394	O 438	S 10	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	mP	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	mX	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	mY	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	mZ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	na	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nb	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nc	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nd	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nl	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nm	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	nn	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	no	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	np	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nq	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nr	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nz	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nA	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	nB	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nC	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nD	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	nE	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	nF	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	nN	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	nO	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	nP	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	nQ	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	nR	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	nS	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	nT	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	ob	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	oc	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	od	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	oe	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	of	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	og	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	oh	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	op	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	oq	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	or	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	os	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	ot	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	ou	295	Total 2305	C 1463	N 394	O 438	S 10	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	ov	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oD	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oE	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	oF	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oG	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oH	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oI	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oJ	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oR	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oS	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	oT	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oU	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oV	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oW	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	oX	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	pf	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	pg	297	Total	C	N	O	S	0	0
			2317	1470	396	441	10		
2	ph	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	pi	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	pj	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		
2	pk	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	pl	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pt	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pu	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	pV	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pW	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pX	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pY	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pZ	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pH	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pI	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	pJ	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pK	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pL	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pM	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pN	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pV	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pW	297	Total 2317	C 1470	N 396	O 441	S 10	0	0
2	pX	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pY	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	pZ	295	Total 2305	C 1463	N 394	O 438	S 10	0	0
2	qa	295	Total 2305	C 1463	N 394	O 438	S 10	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	qb	295	Total	C	N	O	S	0	0
			2305	1463	394	438	10		

- Molecule 3 is a protein called Stopper protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	qd	136	Total	C	H	N	O	0	0
			2036	652	1013	179	192		
3	qe	136	Total	C	H	N	O	0	0
			2036	652	1013	179	192		
3	qf	136	Total	C	H	N	O	0	0
			2036	652	1013	179	192		
3	qg	136	Total	C	H	N	O	0	0
			2036	652	1013	179	192		
3	qh	136	Total	C	H	N	O	0	0
			2036	652	1013	179	192		
3	qi	136	Total	C	H	N	O	0	0
			2036	652	1013	179	192		

- Molecule 4 is a protein called Virion structural protein.

Mol	Chain	Residues	Atoms						AltConf	Trace
4	qj	252	Total	C	H	N	O	S	0	0
			3767	1199	1896	309	360	3		
4	qk	252	Total	C	H	N	O	S	0	0
			3767	1199	1896	309	360	3		
4	ql	252	Total	C	H	N	O	S	0	0
			3767	1199	1896	309	360	3		
4	qm	252	Total	C	H	N	O	S	0	0
			3767	1199	1896	309	360	3		
4	qn	252	Total	C	H	N	O	S	0	0
			3767	1199	1896	309	360	3		
4	qo	252	Total	C	H	N	O	S	0	0
			3767	1199	1896	309	360	3		

- Molecule 5 is a protein called Portal protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	qp	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		
5	qr	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	qt	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		
5	qv	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		
5	qx	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		
5	qz	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		
5	qB	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		
5	qD	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		
5	qF	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		
5	qH	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		
5	qJ	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		
5	qL	405	Total	C	N	O	S	0	0
			3151	1993	563	585	10		

- Molecule 6 is a protein called DUF1320 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	qq	137	Total	C	N	O	S	0	0
			1056	663	186	205	2		
6	qs	137	Total	C	N	O	S	0	0
			1056	663	186	205	2		
6	qu	137	Total	C	N	O	S	0	0
			1056	663	186	205	2		
6	qw	137	Total	C	N	O	S	0	0
			1056	663	186	205	2		
6	qy	137	Total	C	N	O	S	0	0
			1056	663	186	205	2		
6	qA	137	Total	C	N	O	S	0	0
			1056	663	186	205	2		
6	qC	137	Total	C	N	O	S	0	0
			1056	663	186	205	2		
6	qE	137	Total	C	N	O	S	0	0
			1056	663	186	205	2		
6	qG	137	Total	C	N	O	S	0	0
			1056	663	186	205	2		

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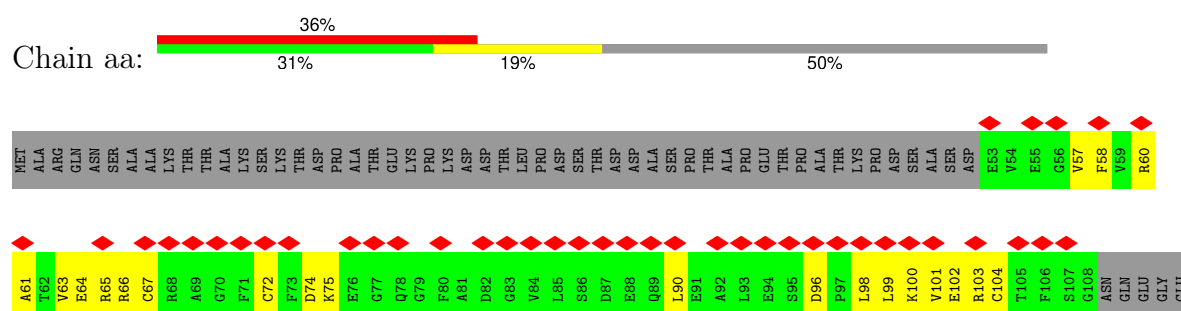
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Mol	Chain	Residues	Atoms					AltConf	Trace
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			1056	663	186	205	2		
6	qK	137	Total	C	N	O	S	0	0
			1056	663	186	205	2		
6	qM	137	Total	C	N	O	S	0	0
			1056	663	186	205	2		

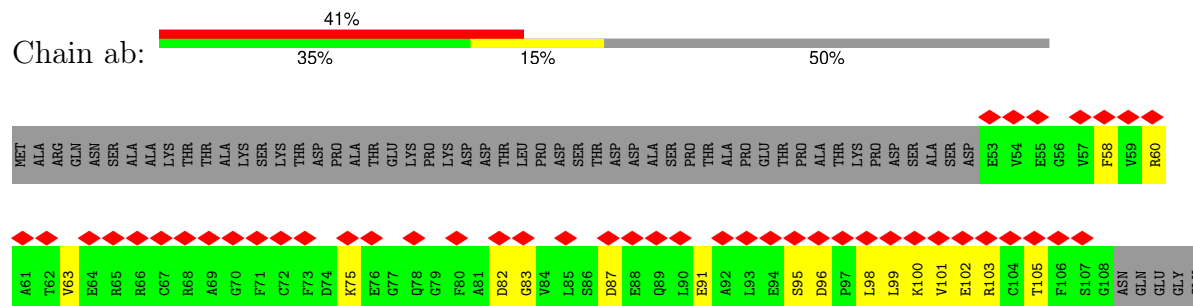
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

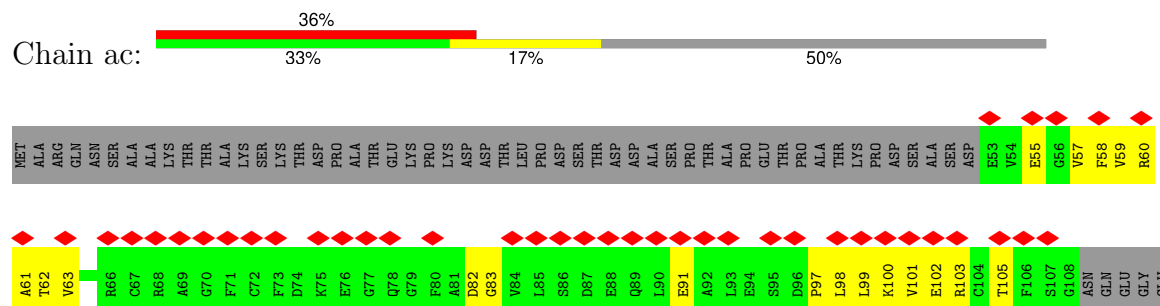
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- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein

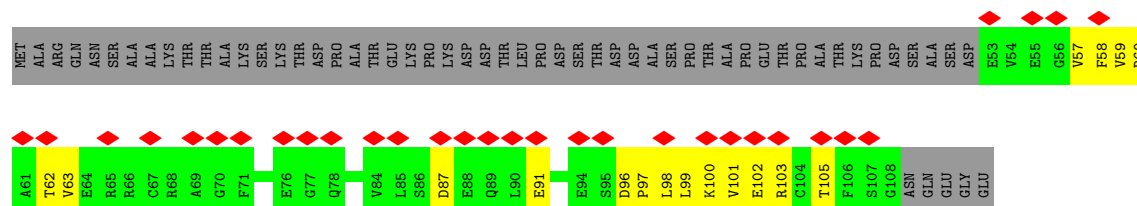


- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein

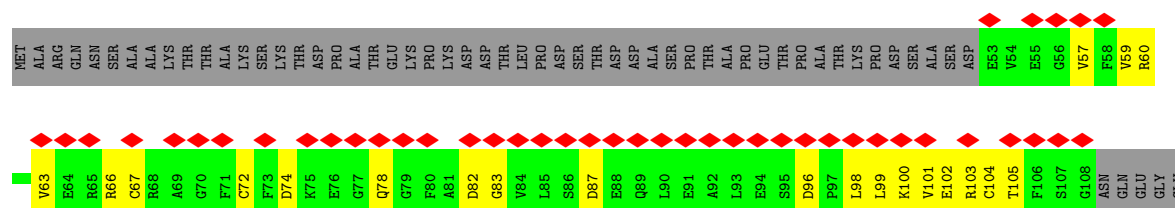
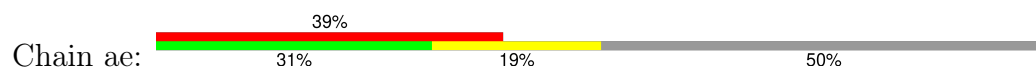


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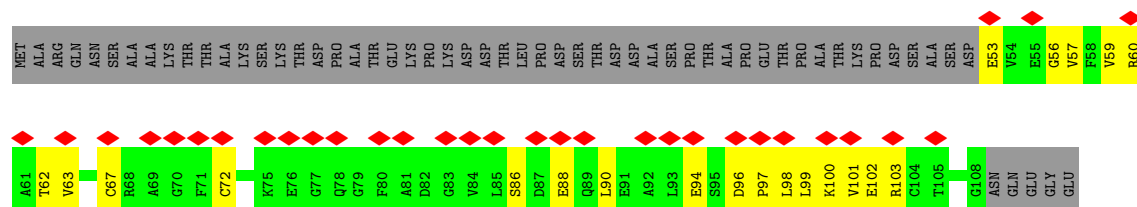
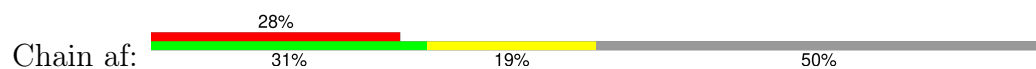




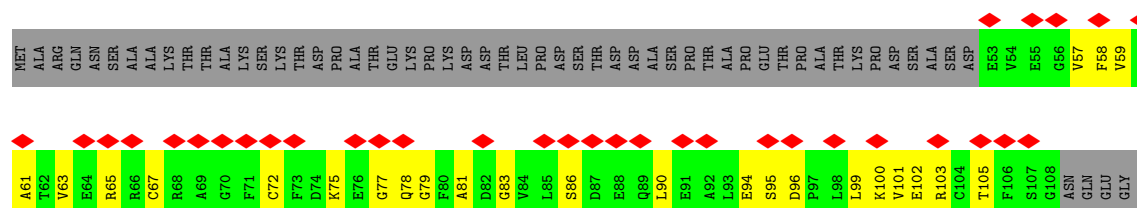
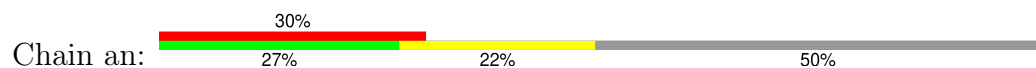
- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein



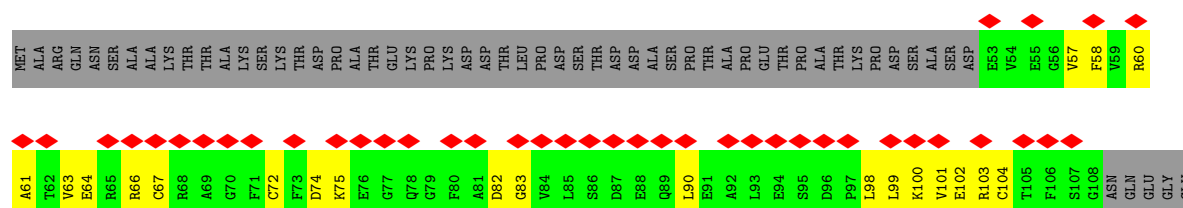
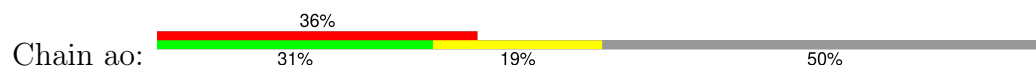
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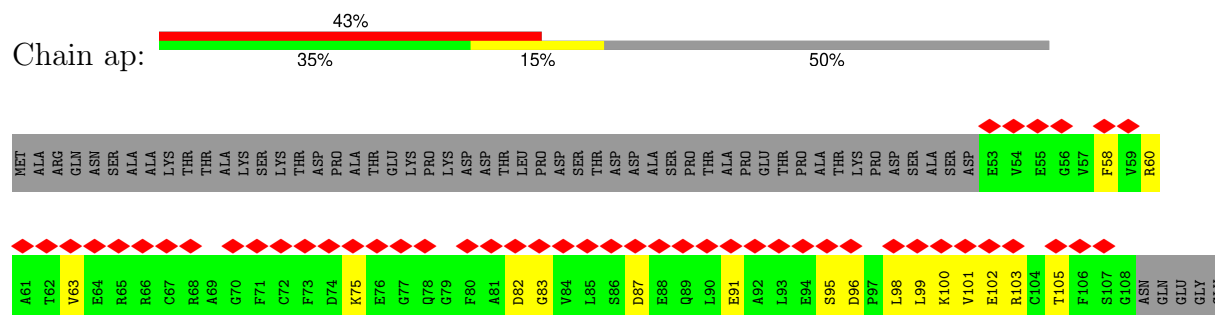
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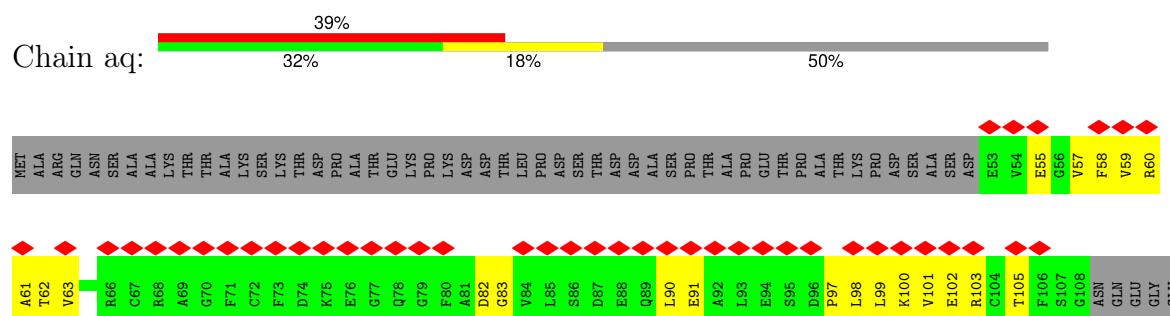
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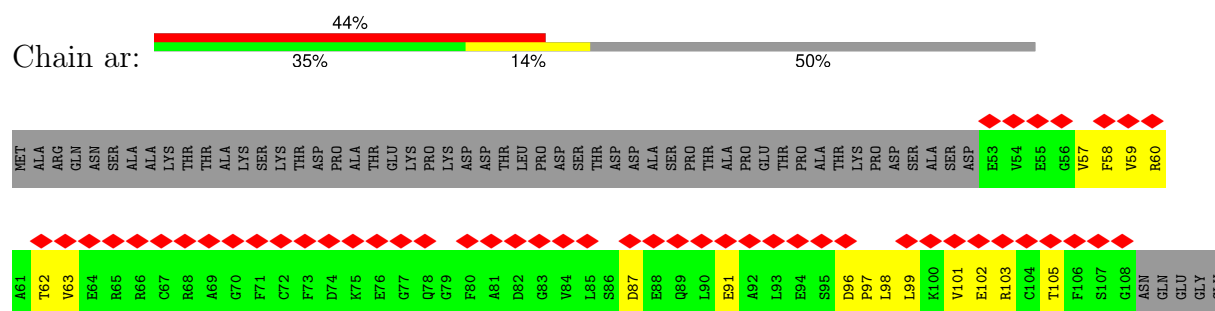
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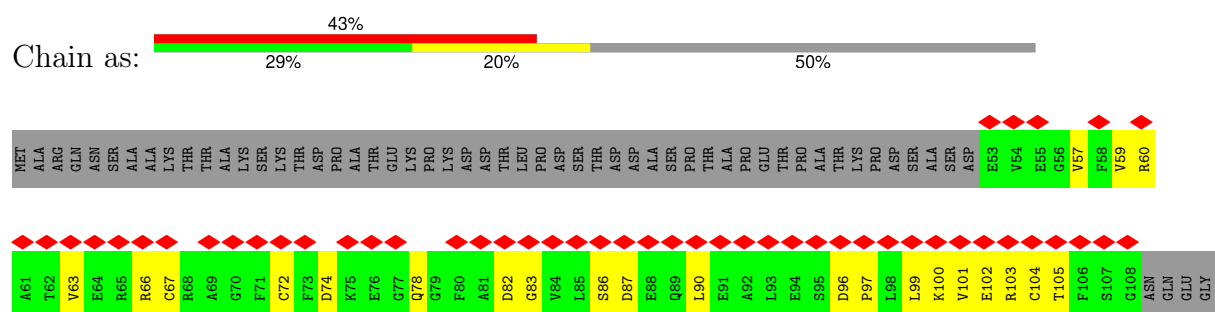
- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein



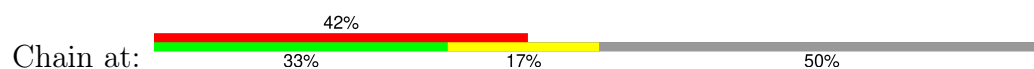
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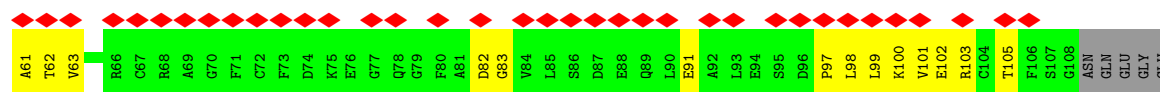
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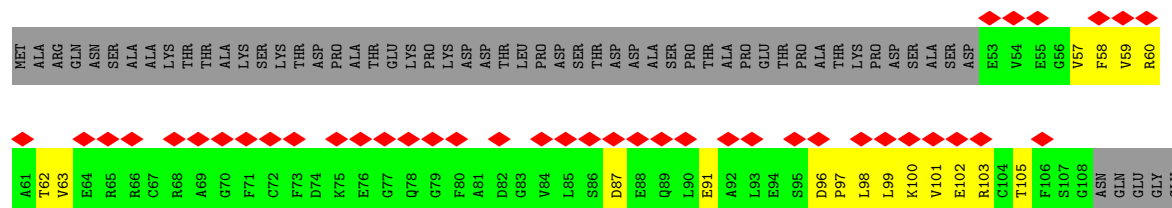
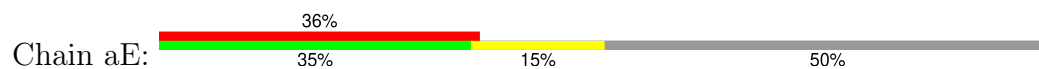
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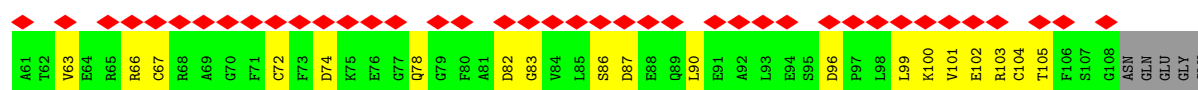
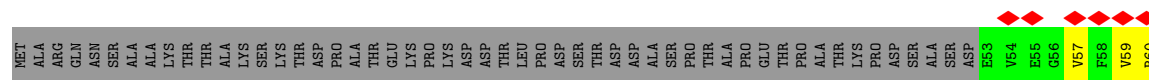
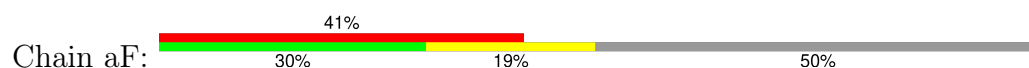




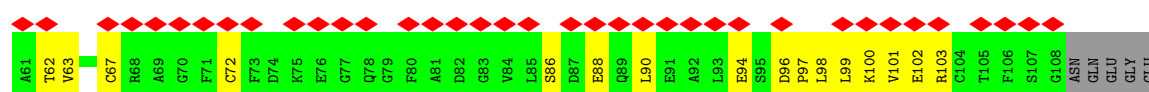
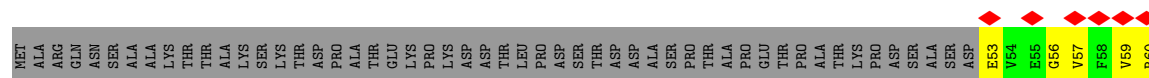
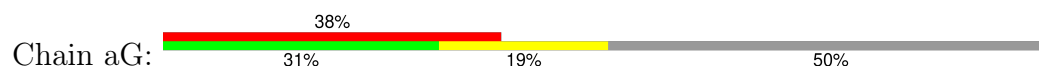
- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein



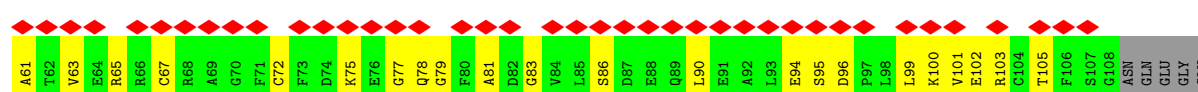
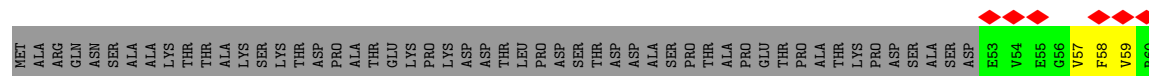
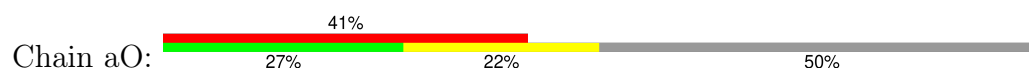
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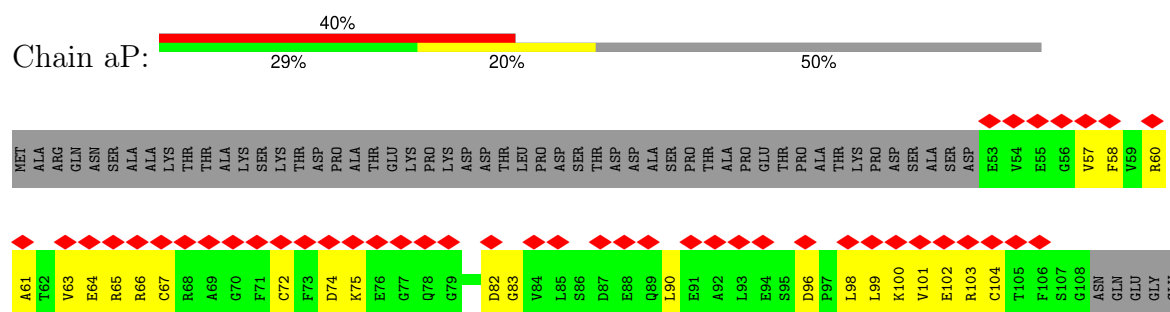
- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein



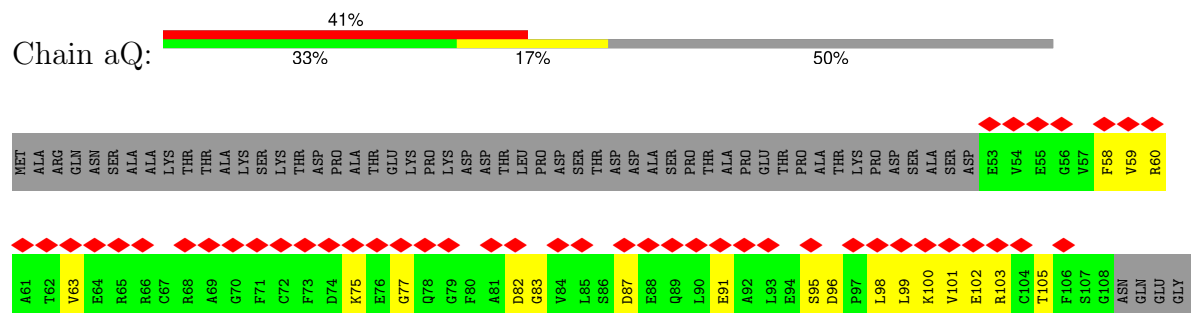
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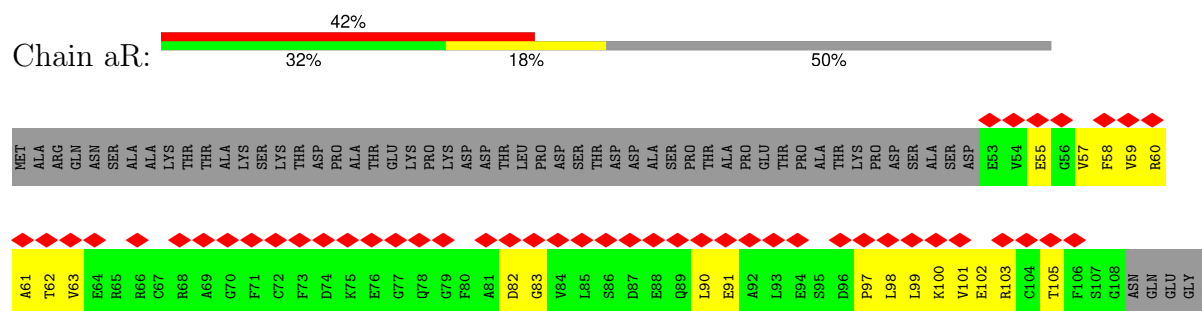
- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein



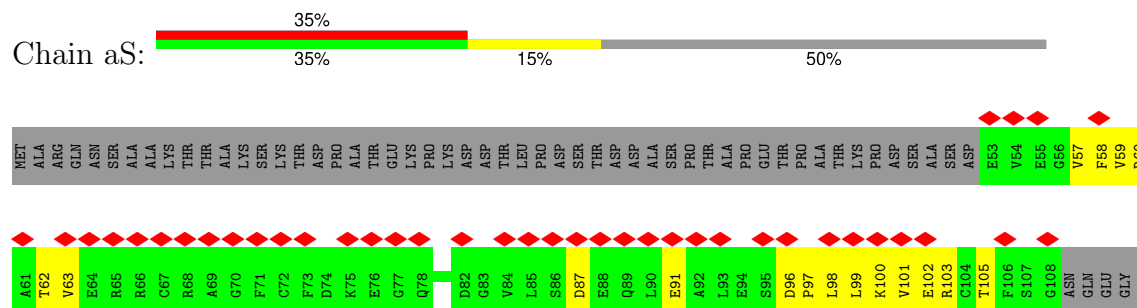
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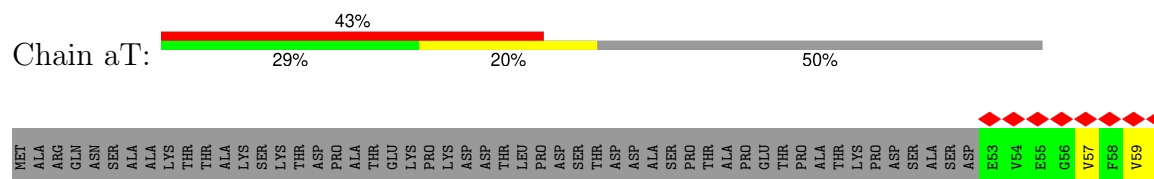
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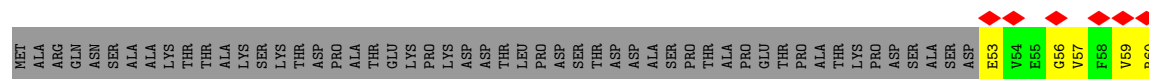
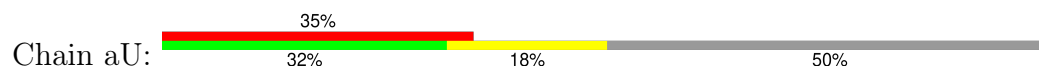


- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein

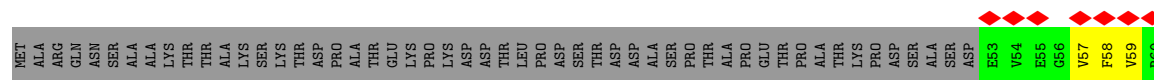
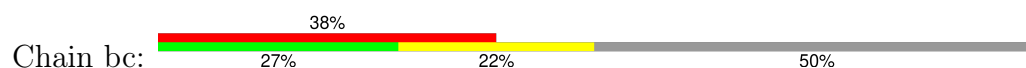




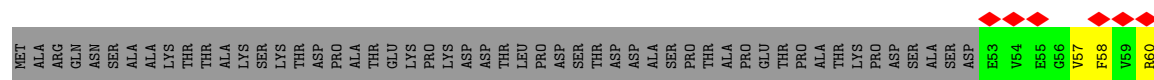
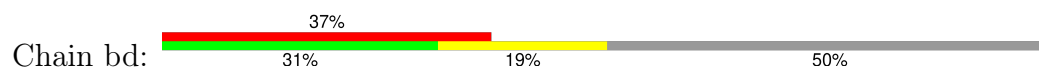
- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein



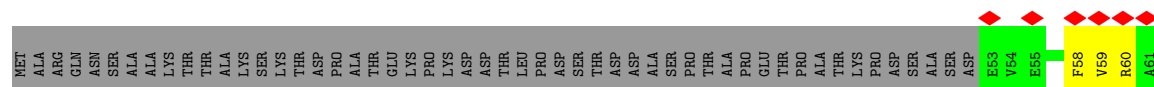
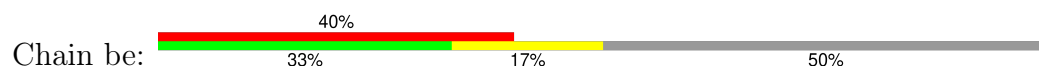
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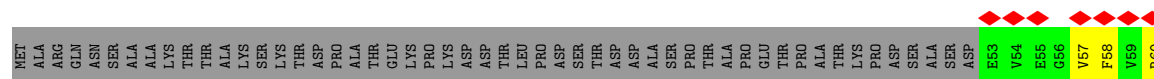
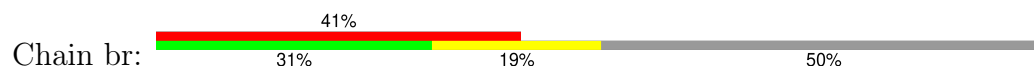
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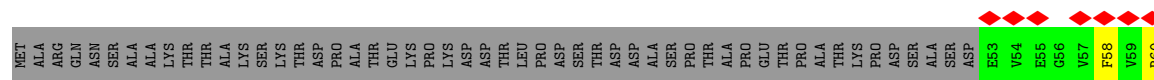
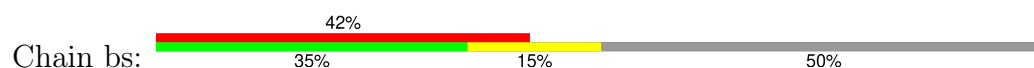
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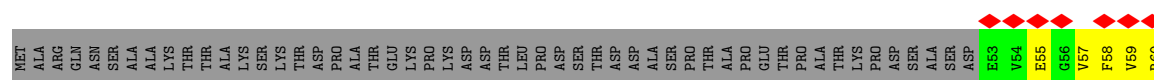
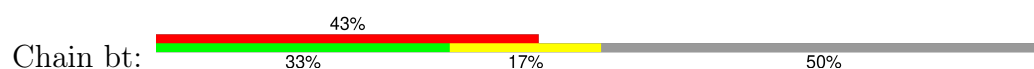
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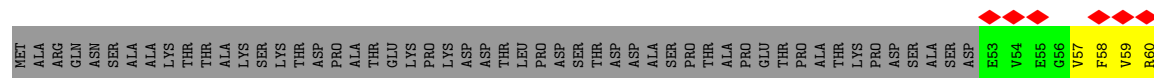
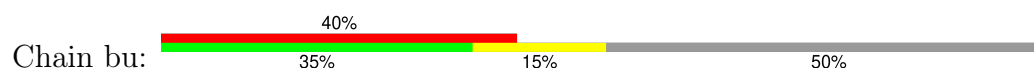
- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein



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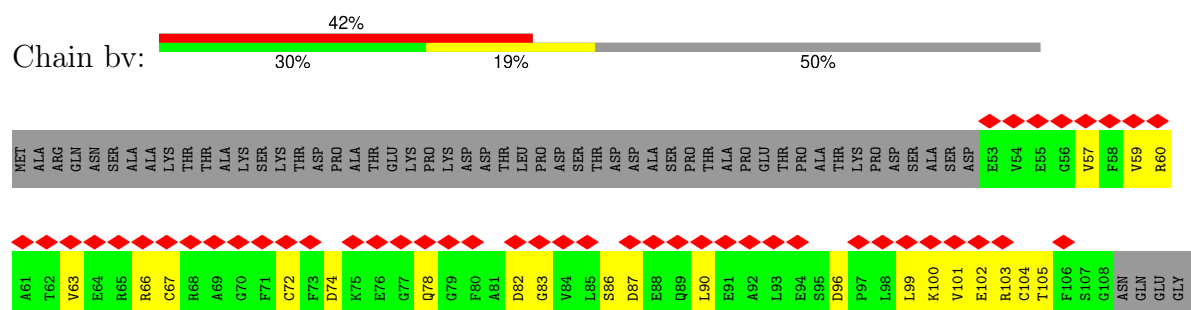


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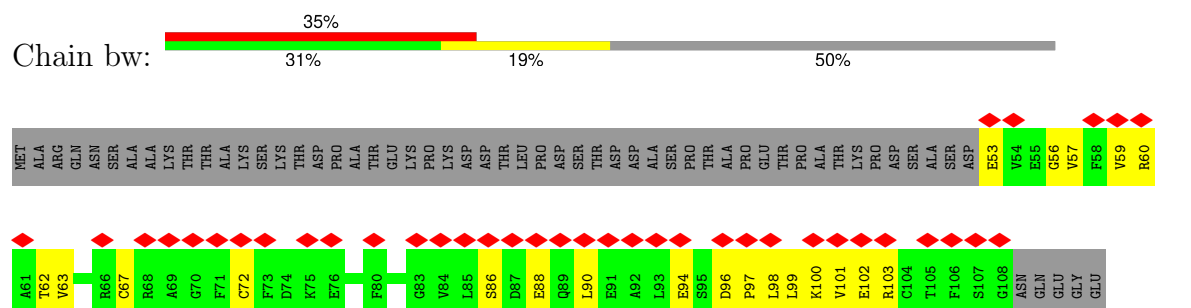


- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein

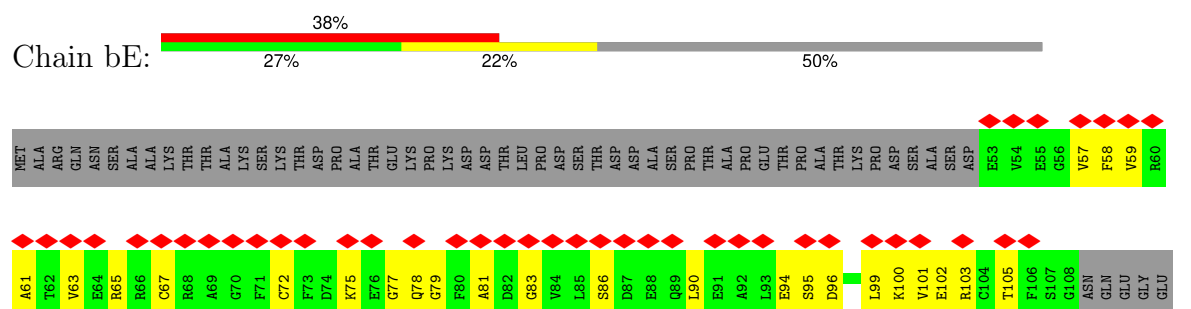




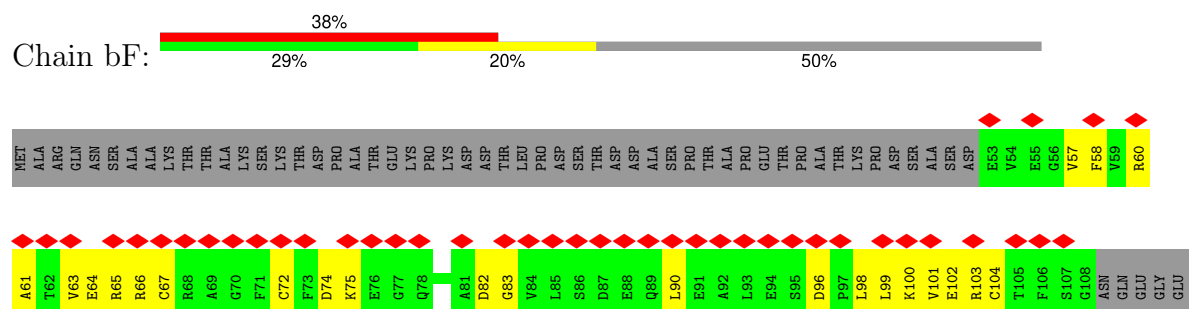
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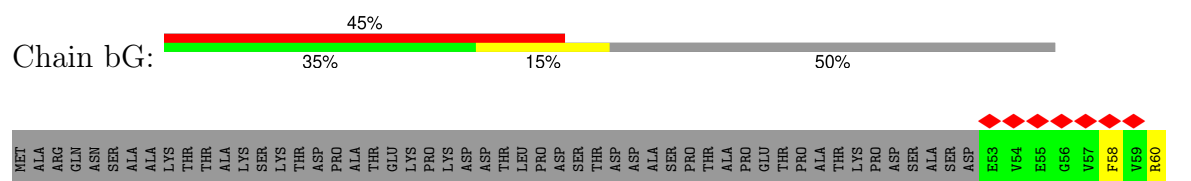
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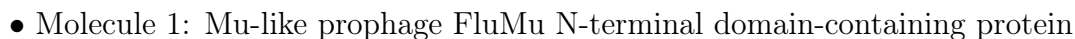


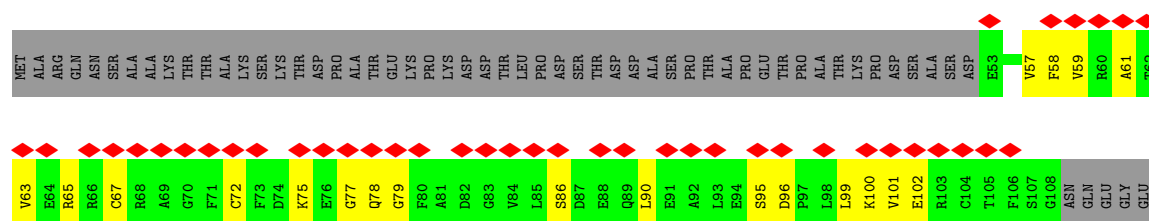
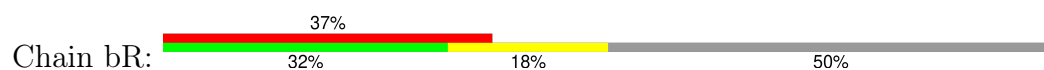
- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein



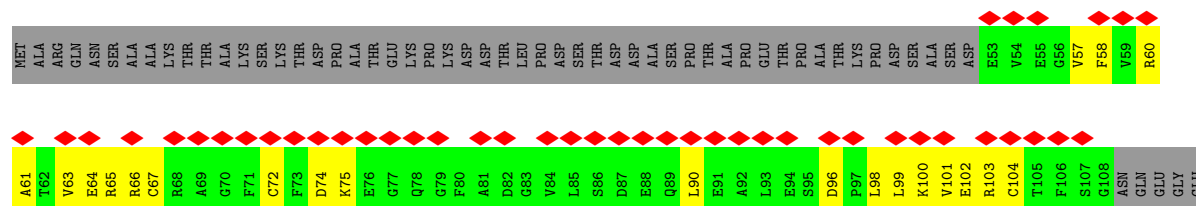
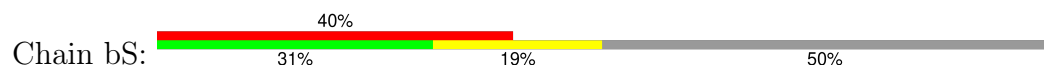
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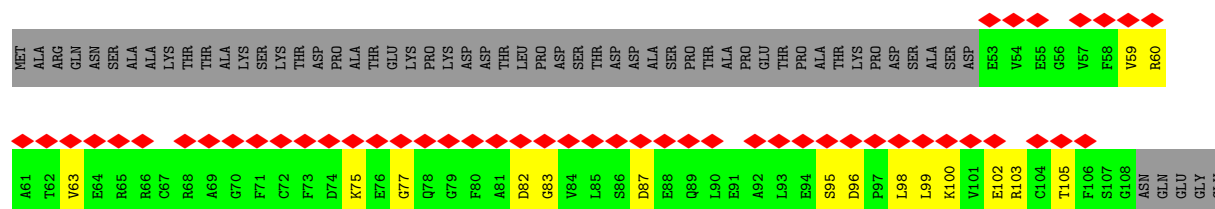
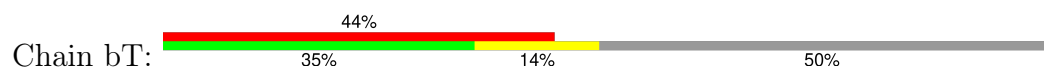




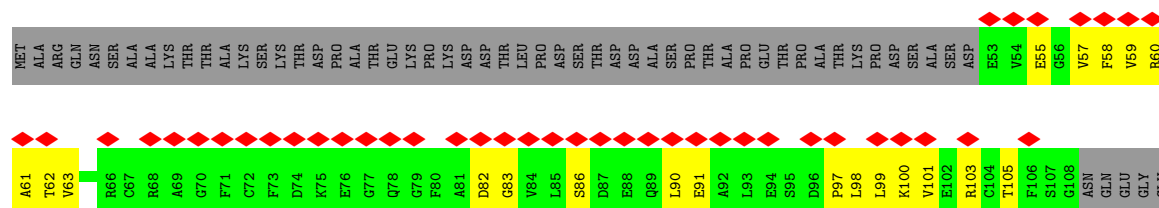
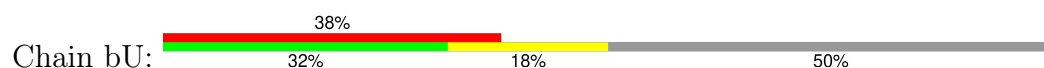
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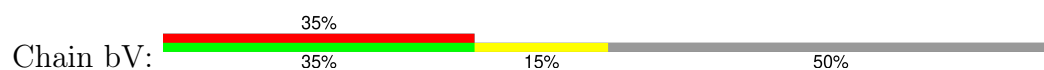
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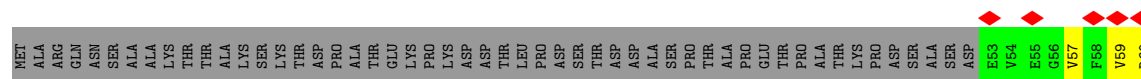
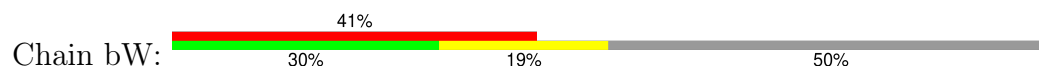


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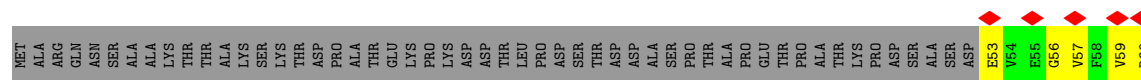
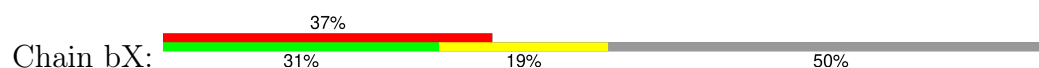




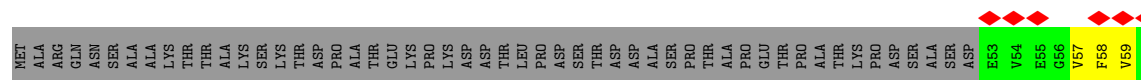
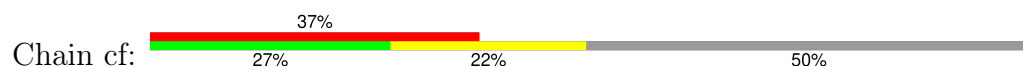
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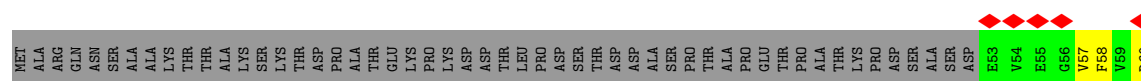
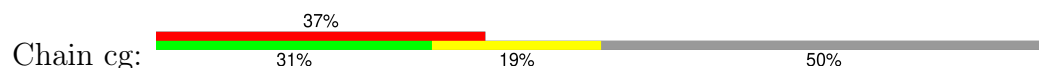
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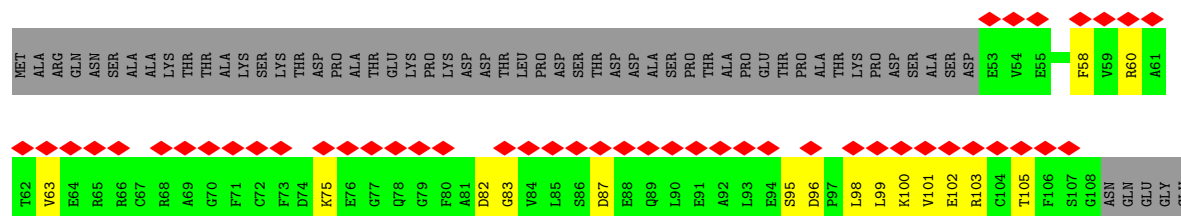
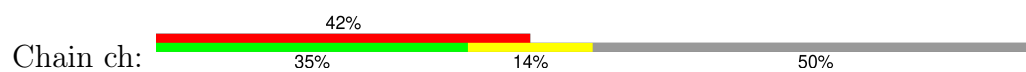


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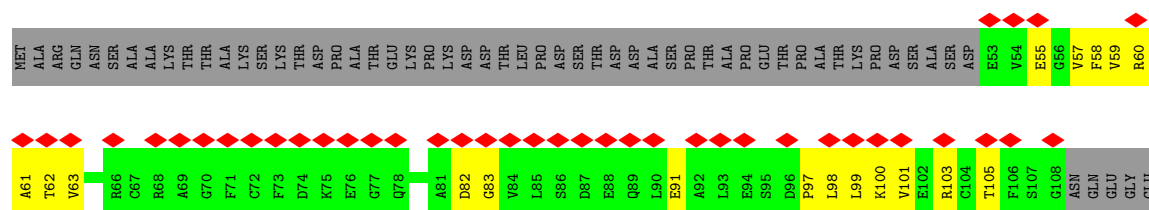
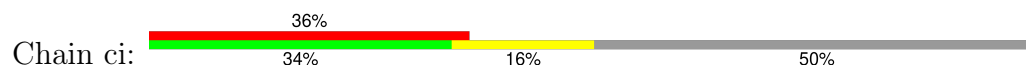


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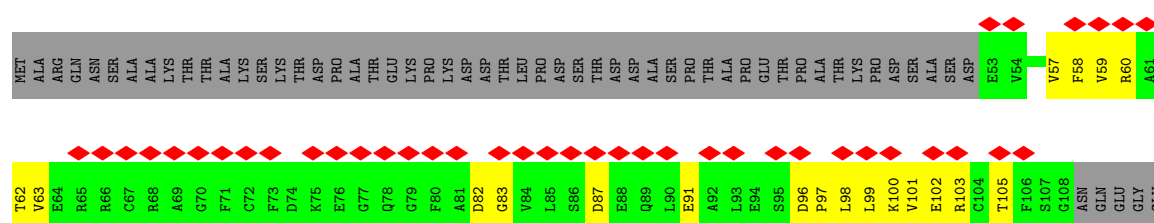
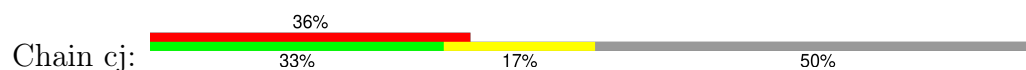




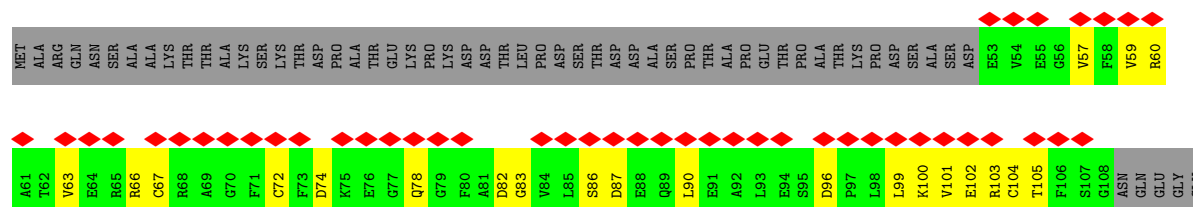
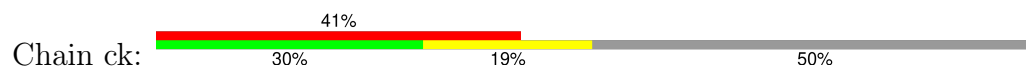
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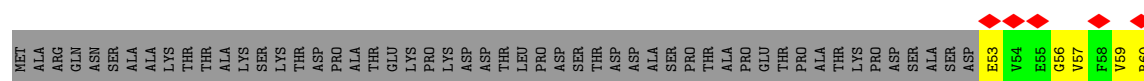
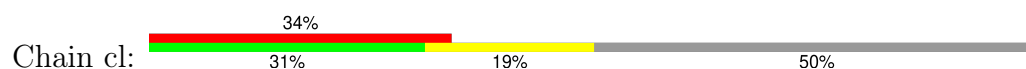
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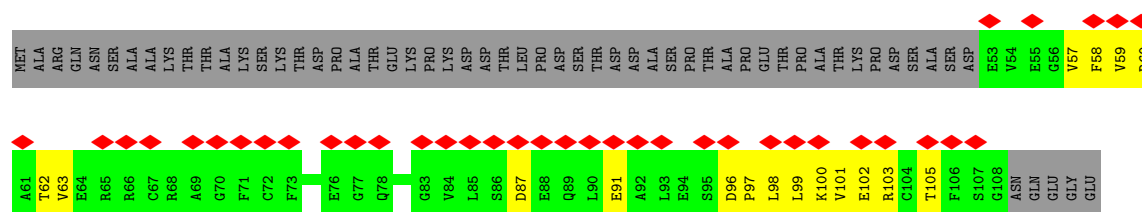
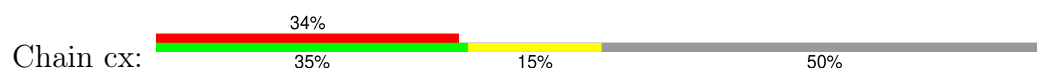


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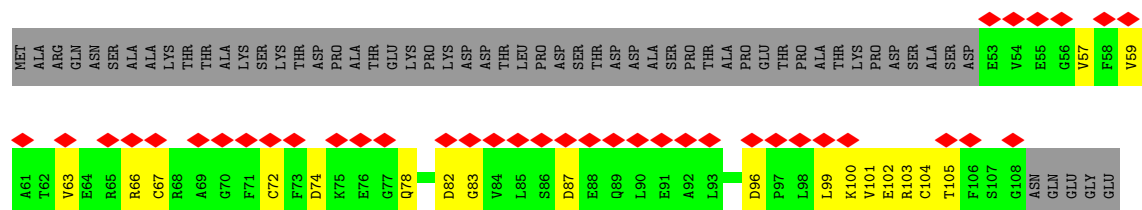
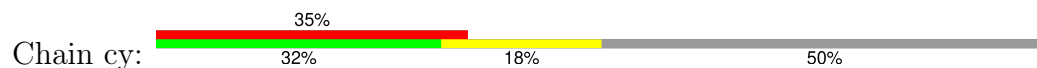


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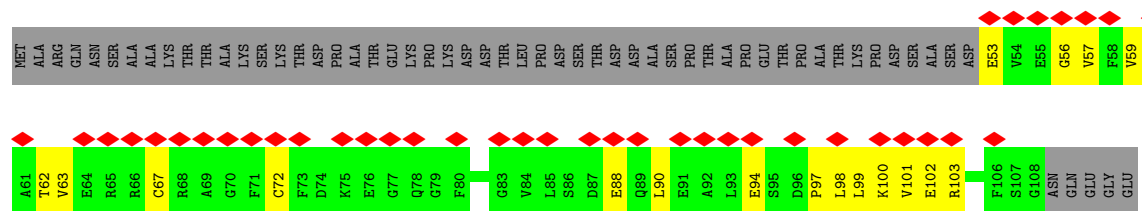
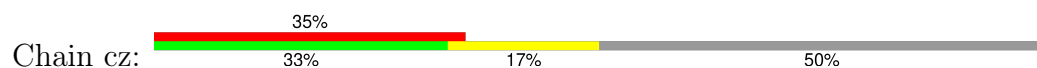




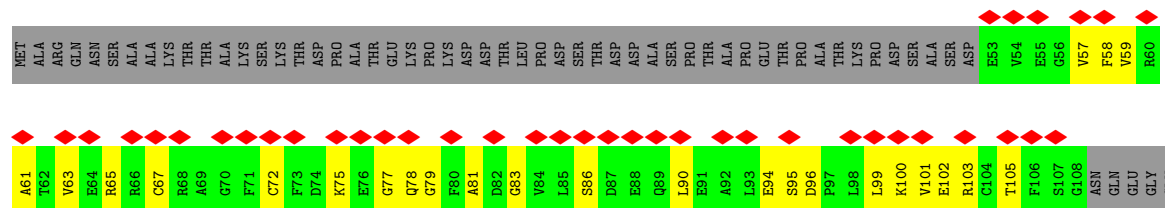
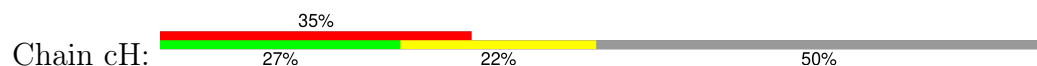
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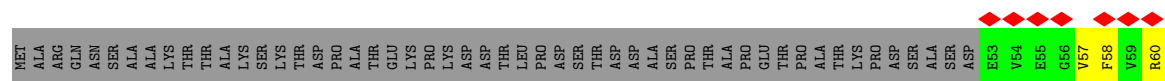
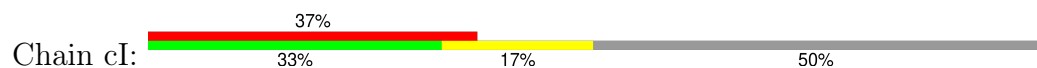
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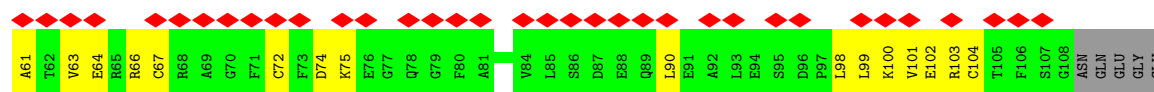


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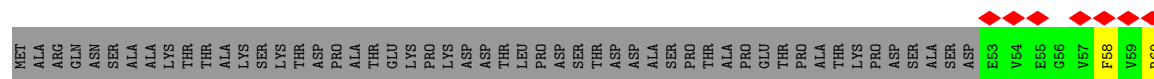
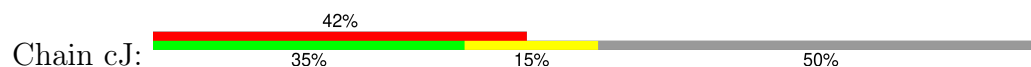


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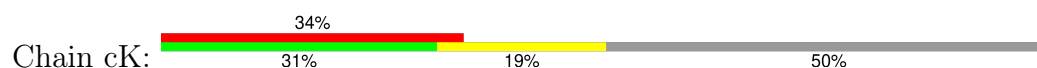




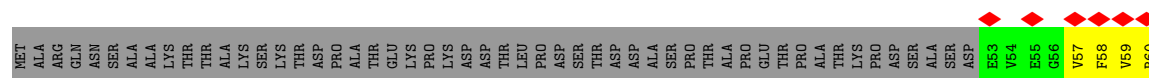
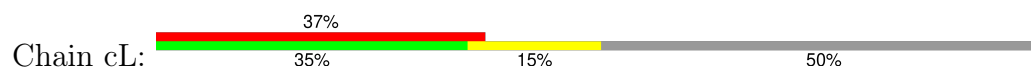
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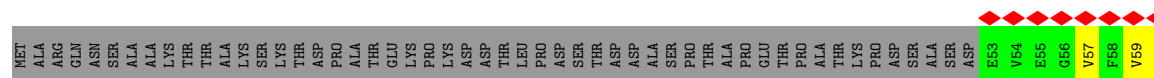
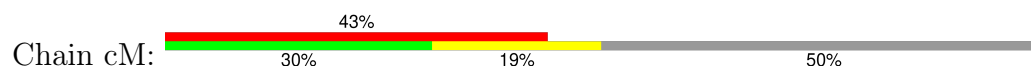
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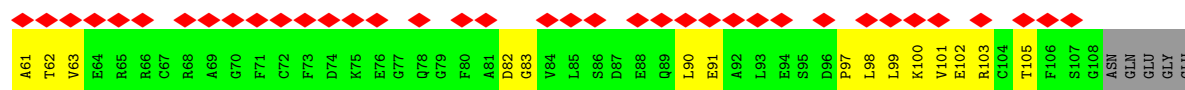


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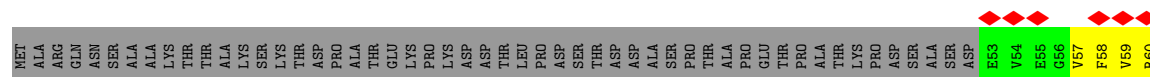
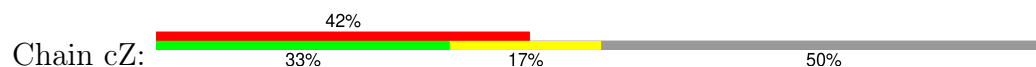


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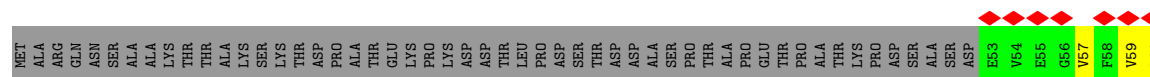
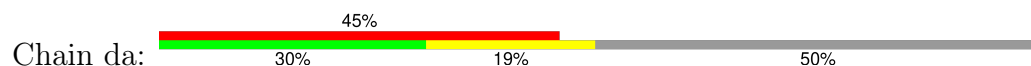




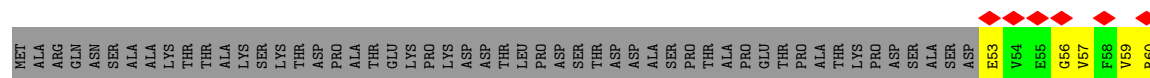
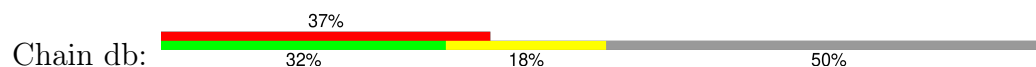
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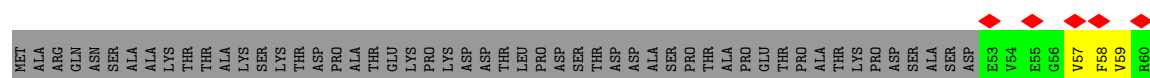
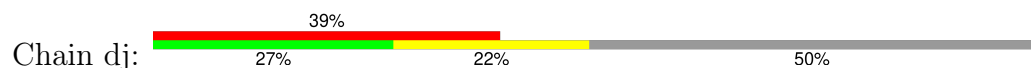
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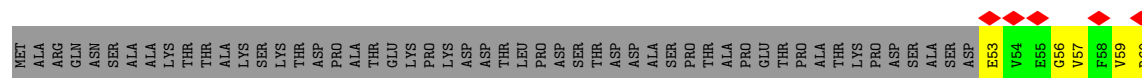
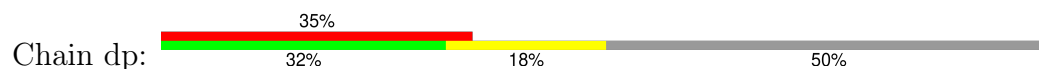


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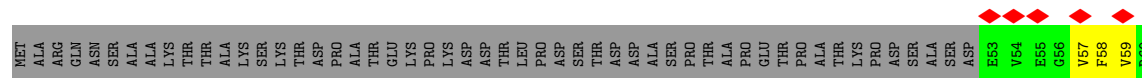




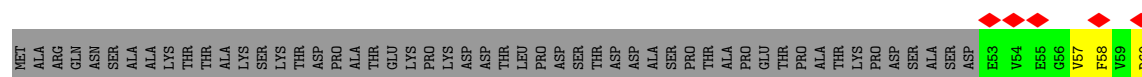
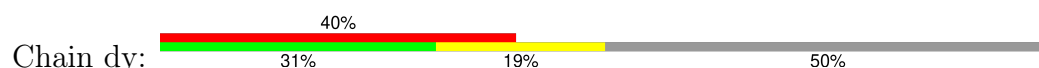
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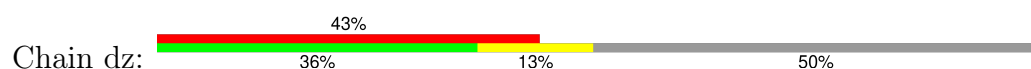
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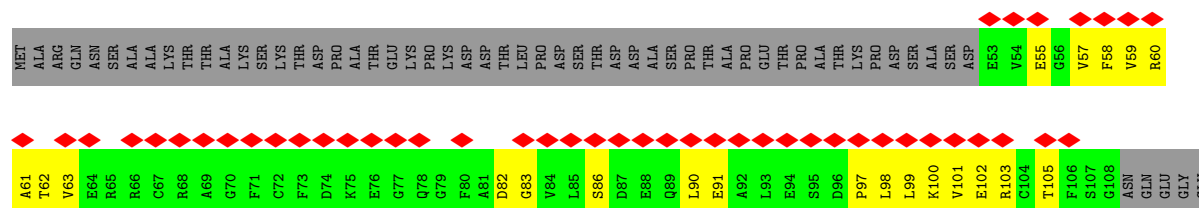
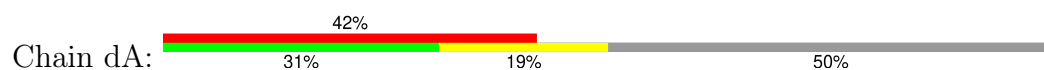
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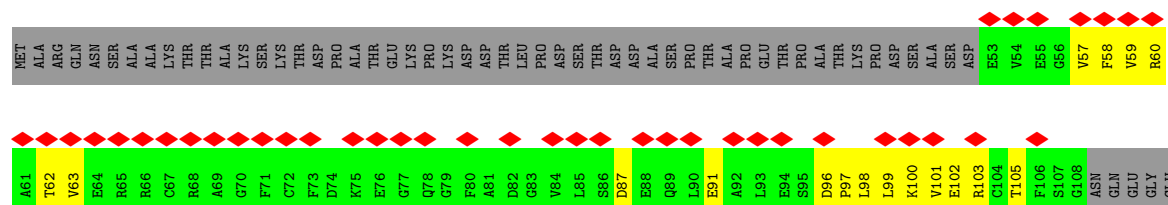
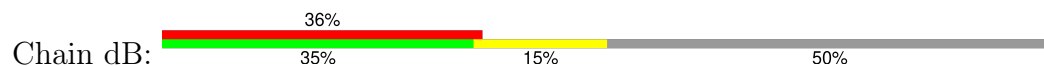
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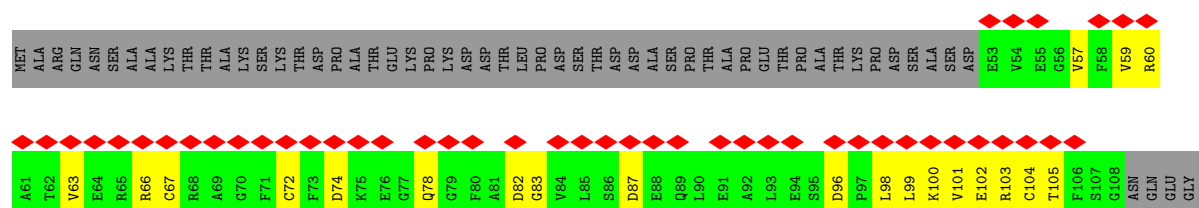
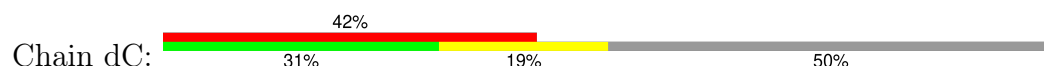
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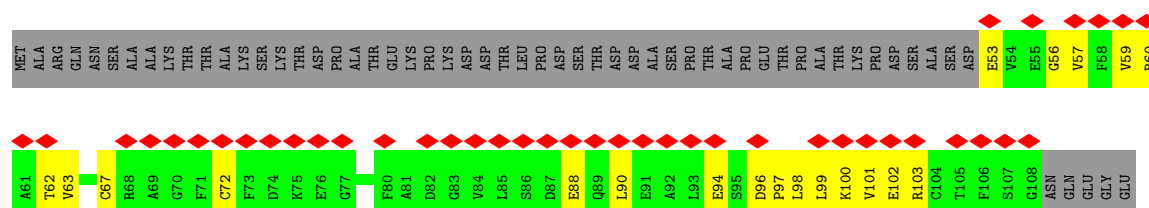
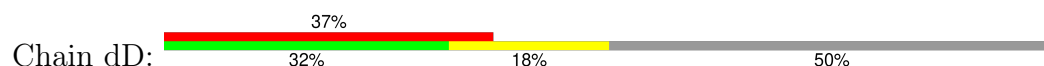
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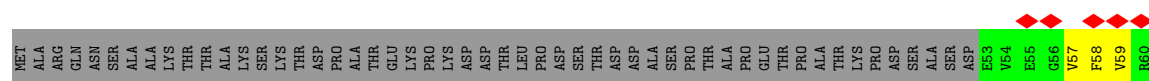
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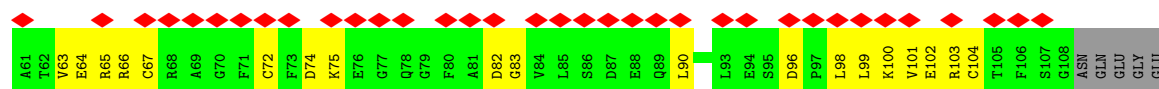
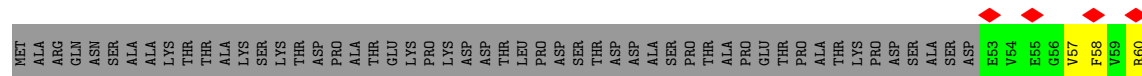
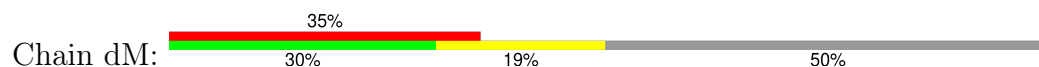


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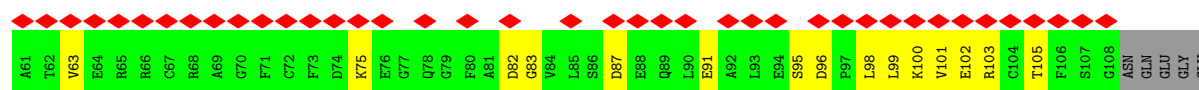
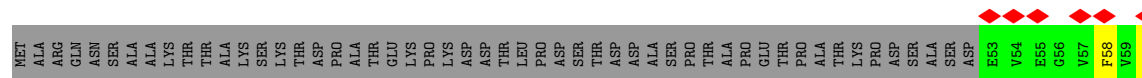
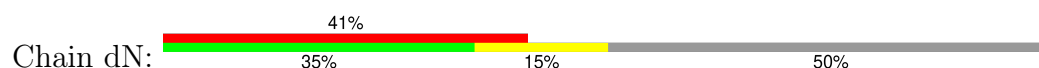




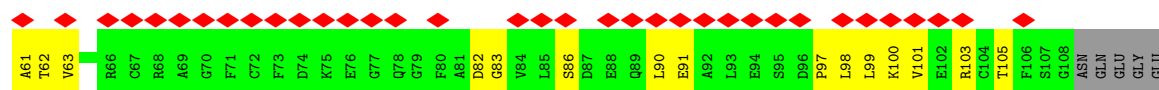
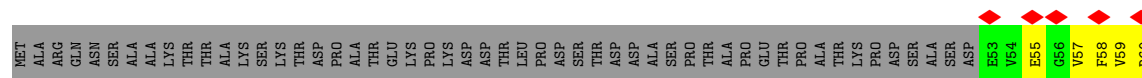
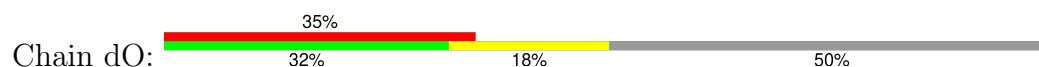
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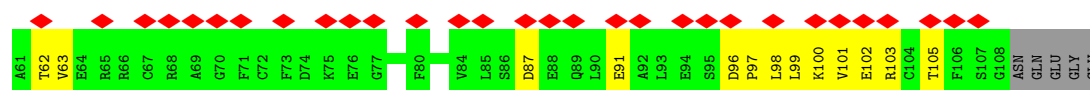
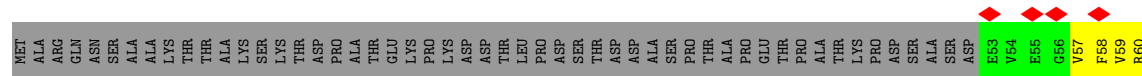
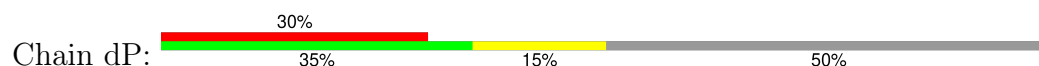
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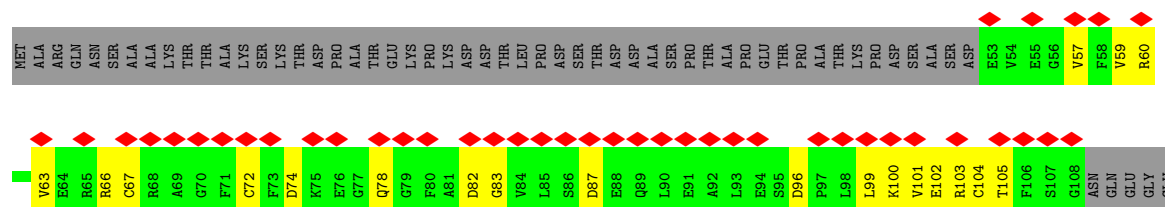
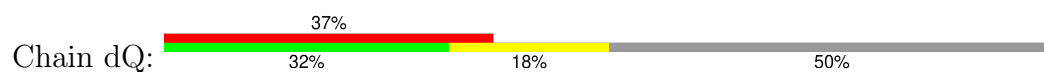
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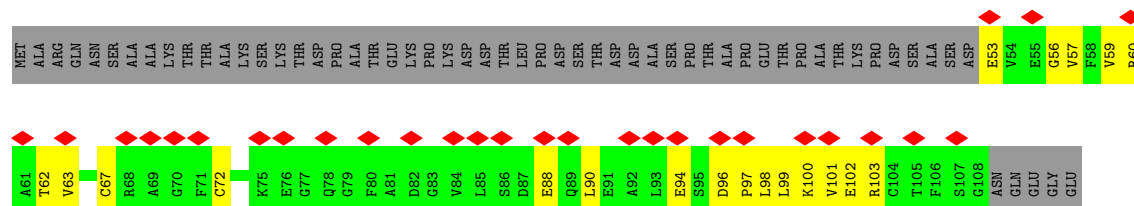
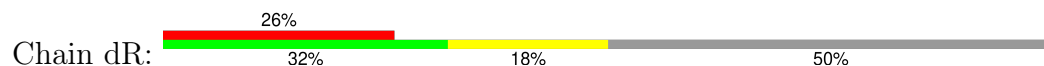
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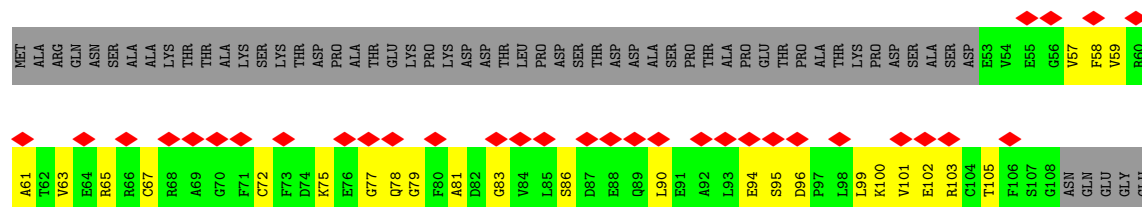
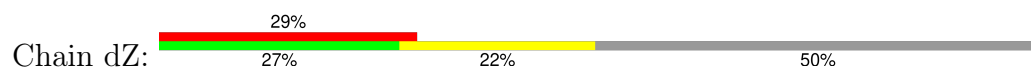
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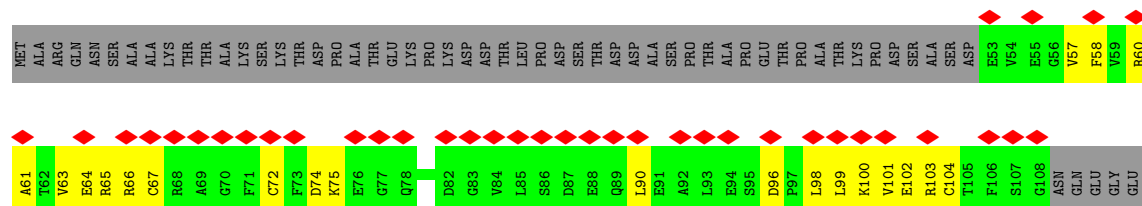
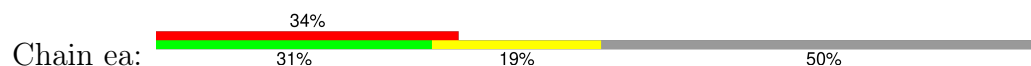
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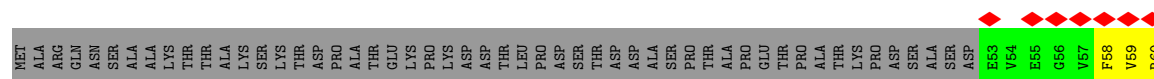
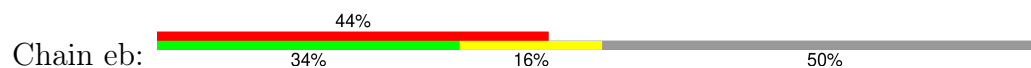
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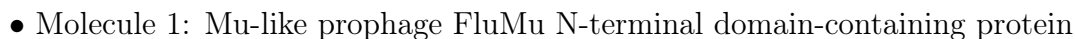


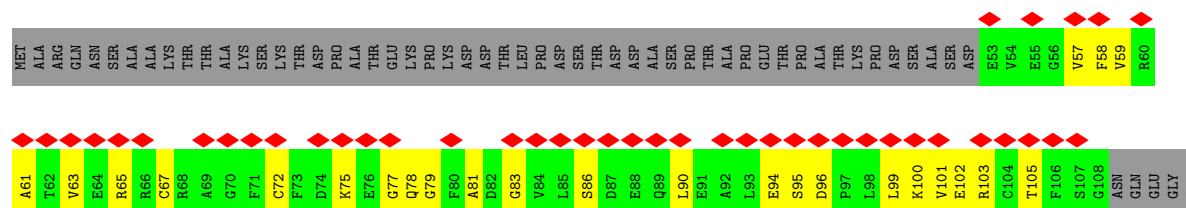
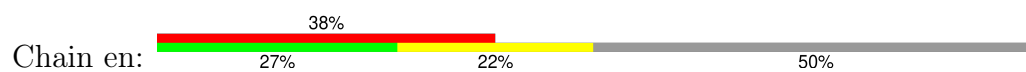
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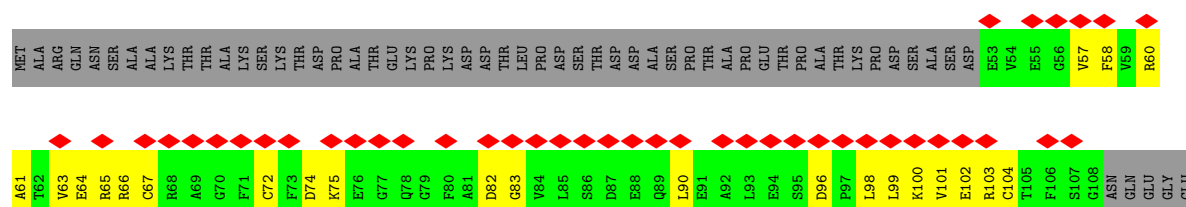
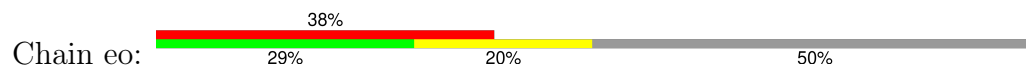
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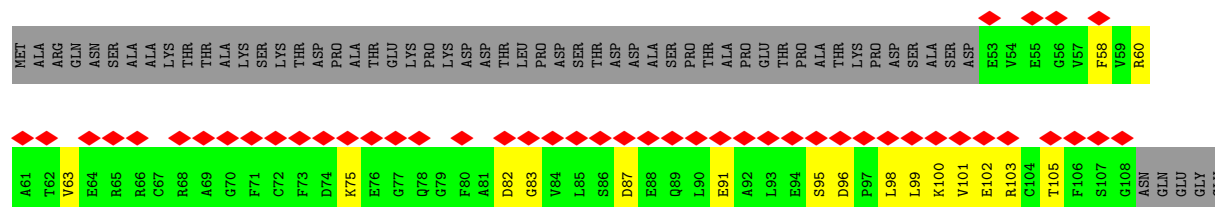
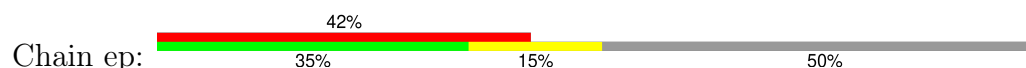




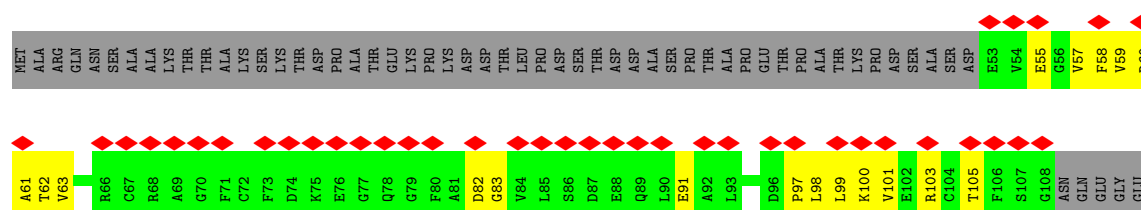
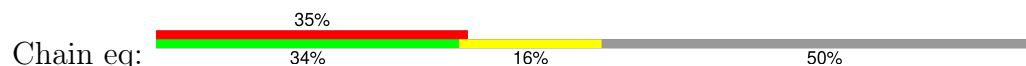
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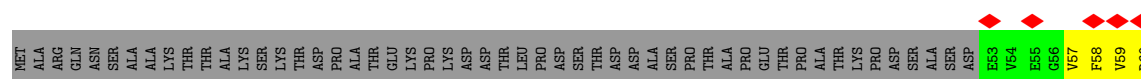
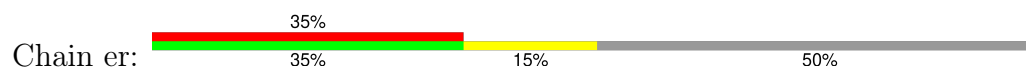
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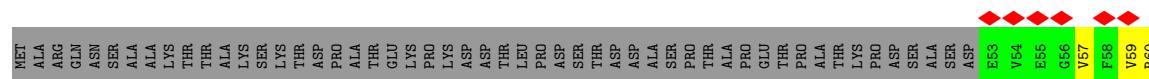
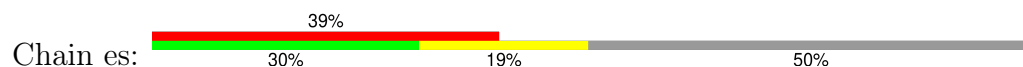


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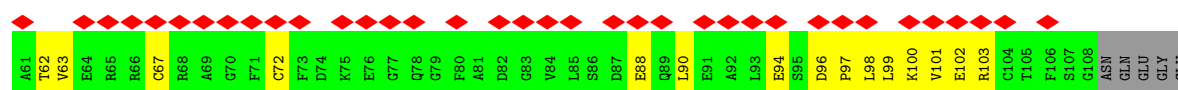
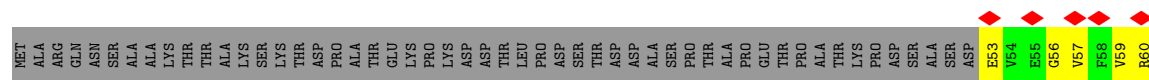
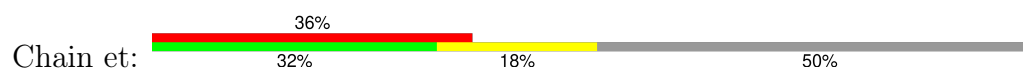




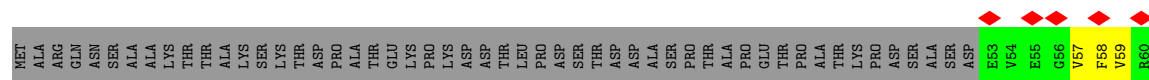
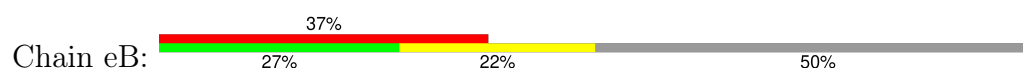
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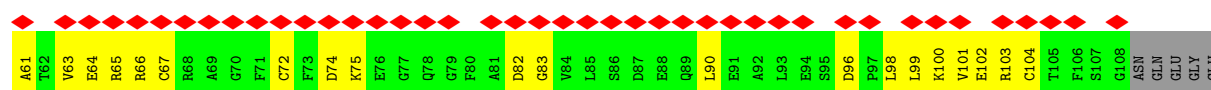
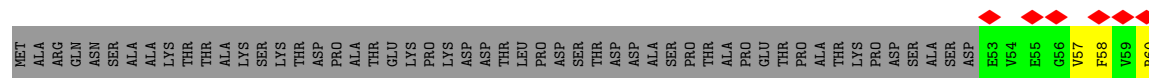
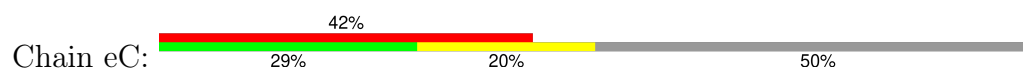
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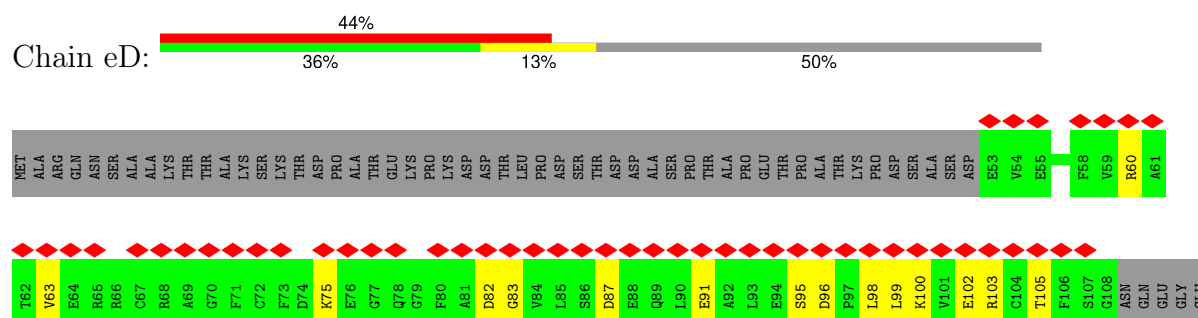
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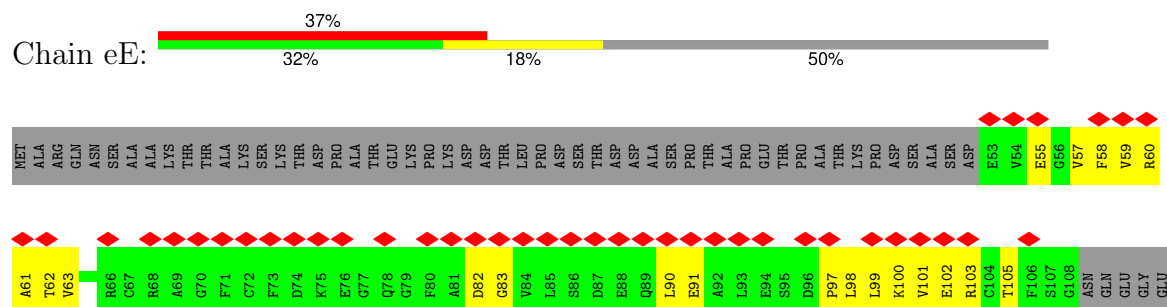
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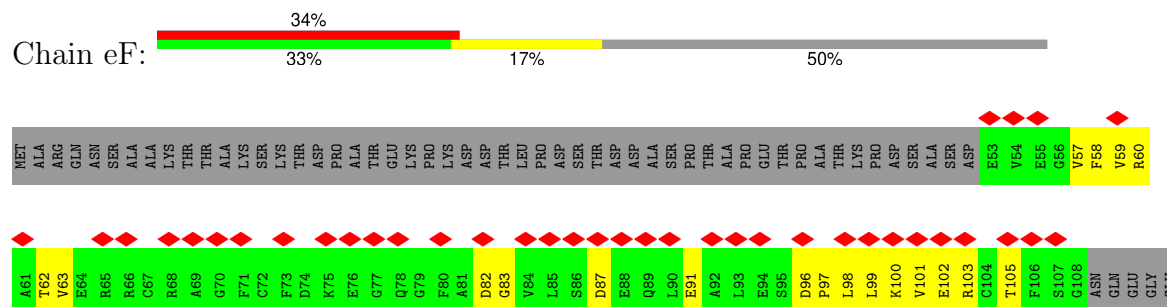
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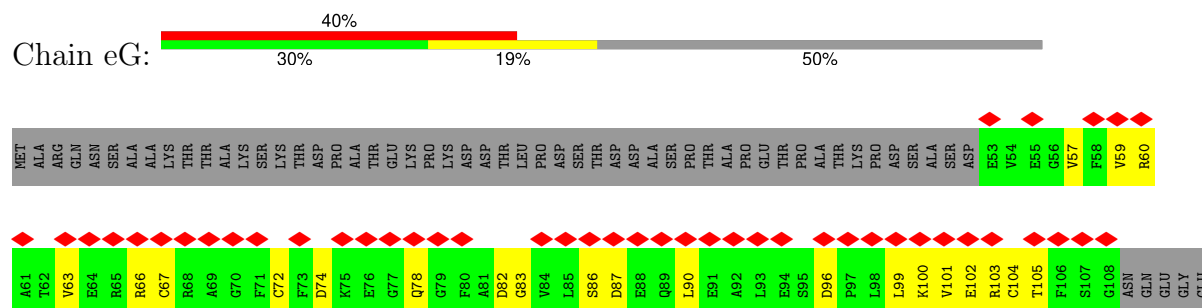
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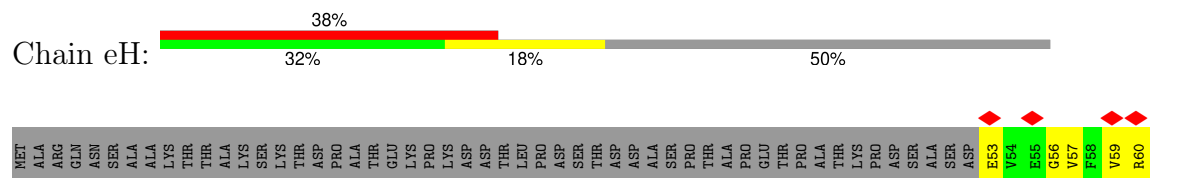
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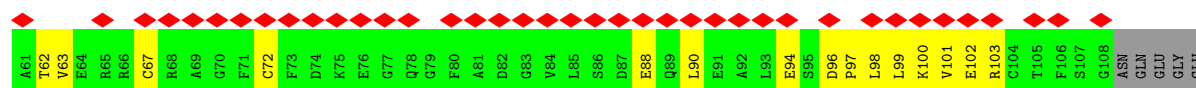


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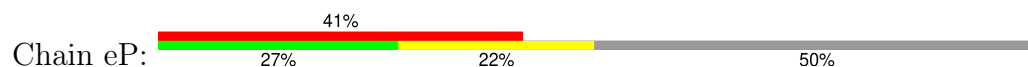


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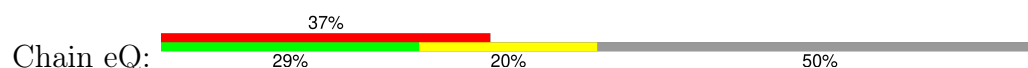




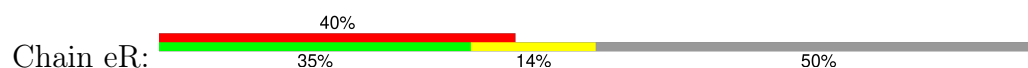
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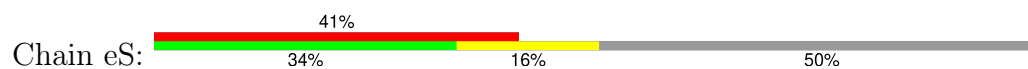
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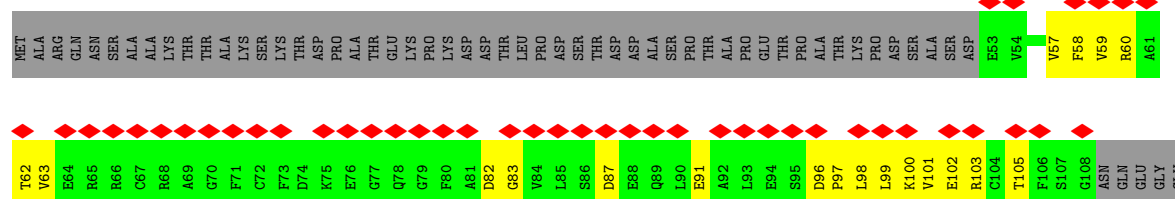
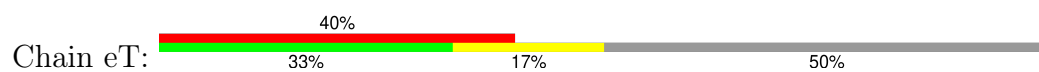
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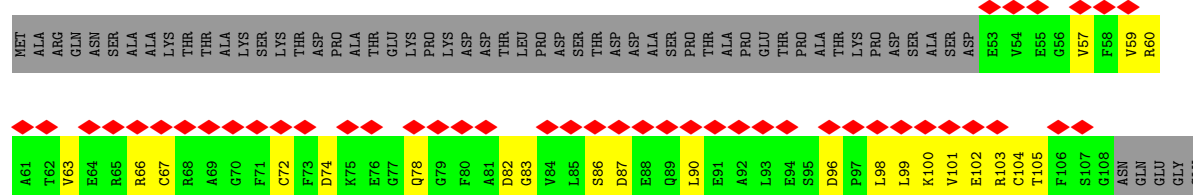
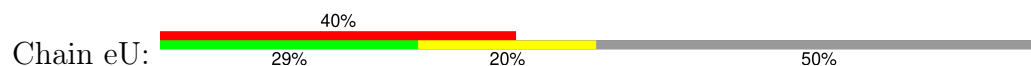
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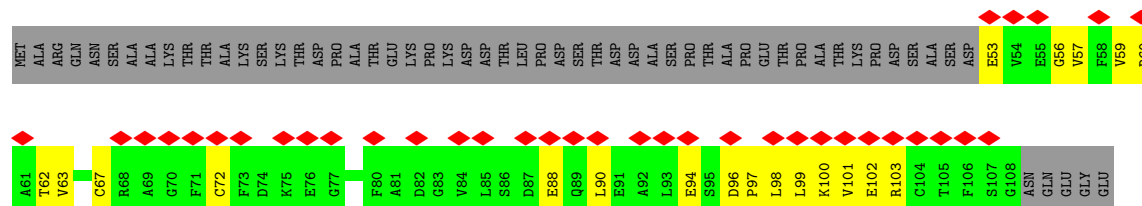
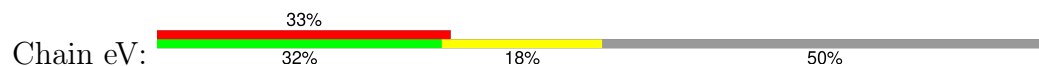
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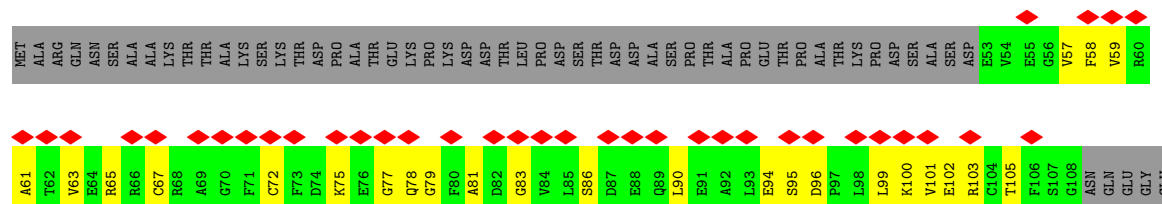
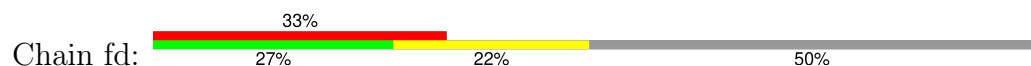
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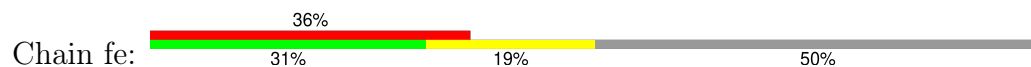
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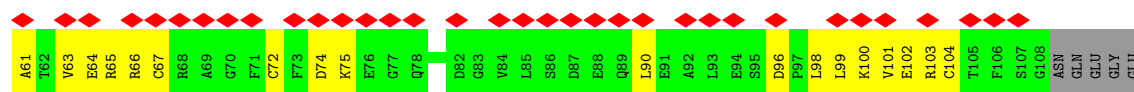


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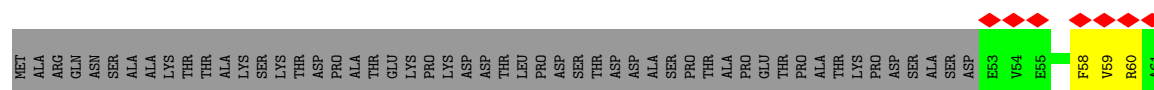
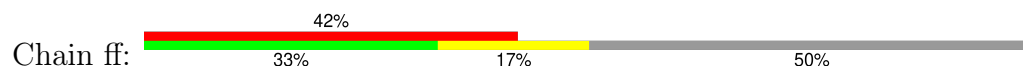


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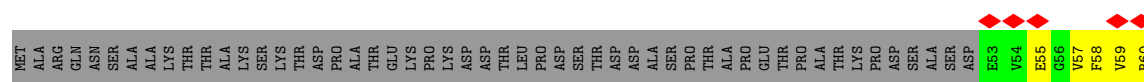
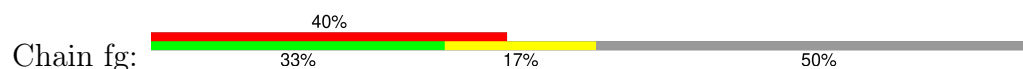




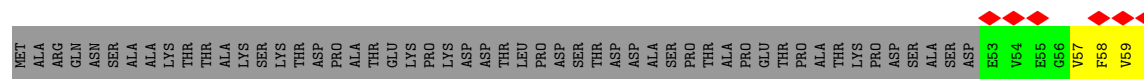
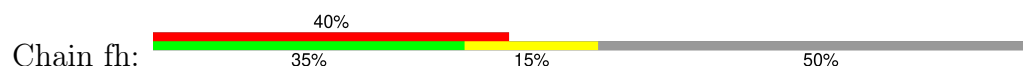
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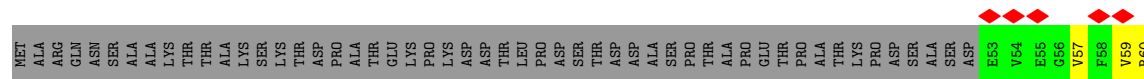
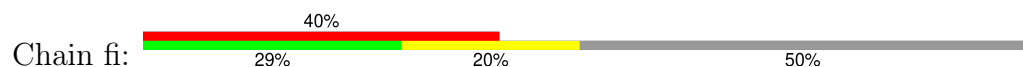
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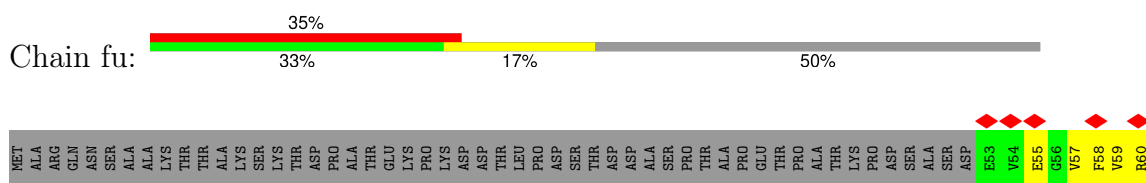
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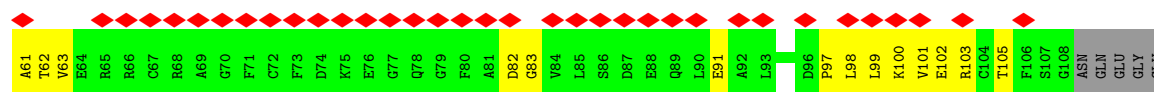
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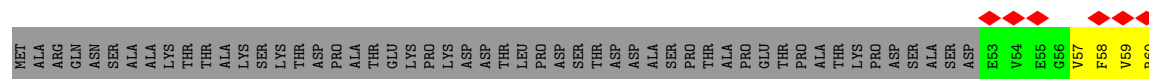
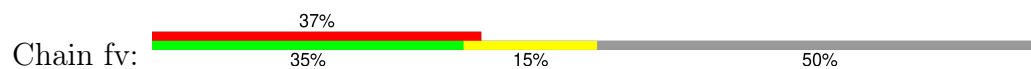
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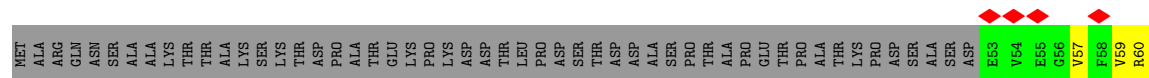
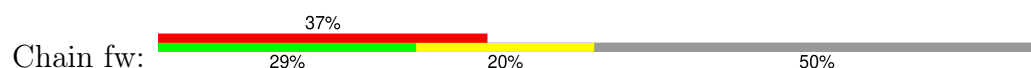




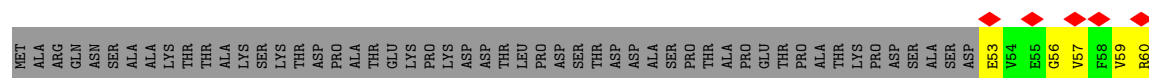
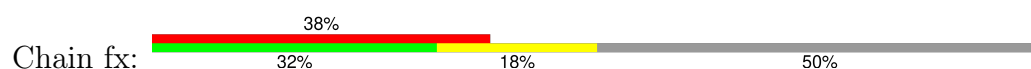
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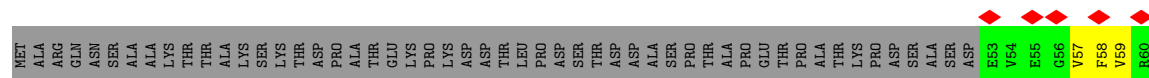
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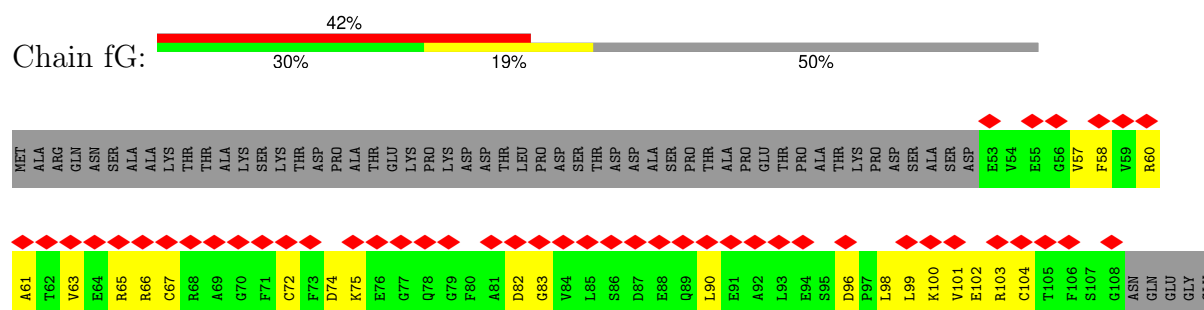


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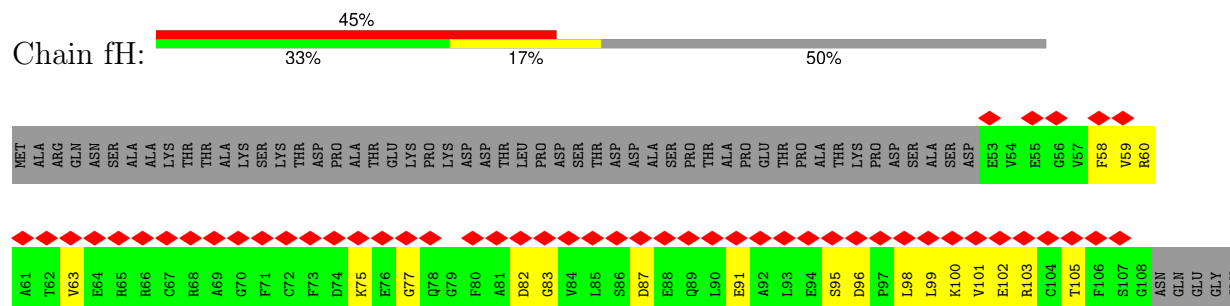


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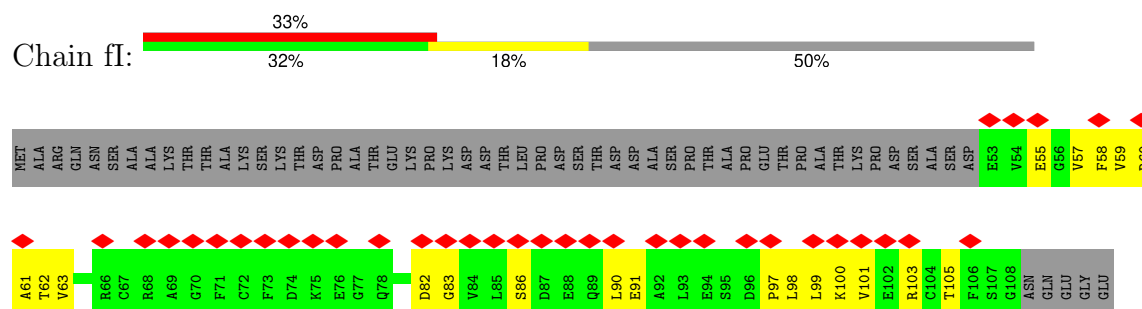




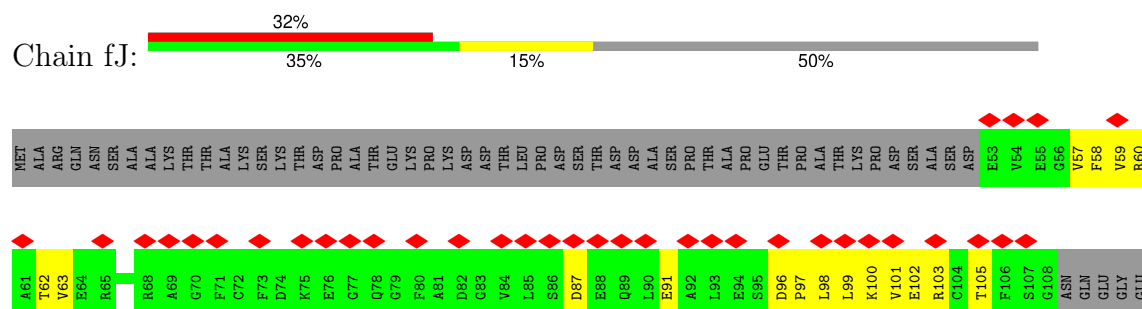
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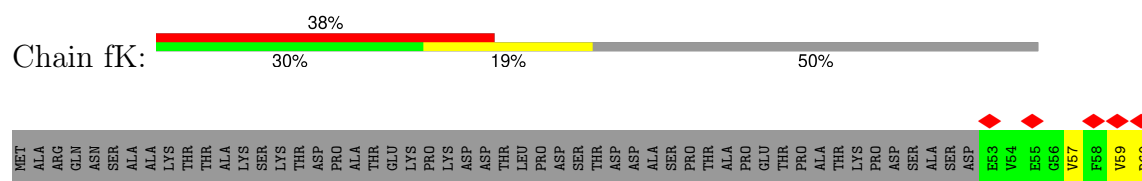
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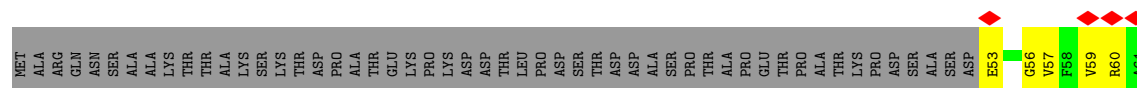
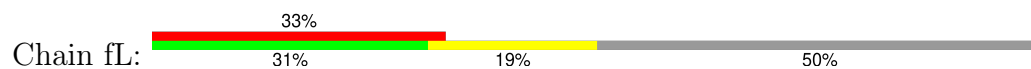


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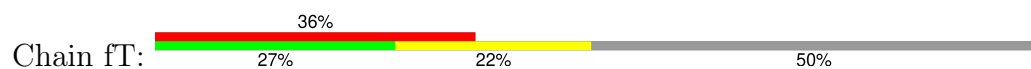




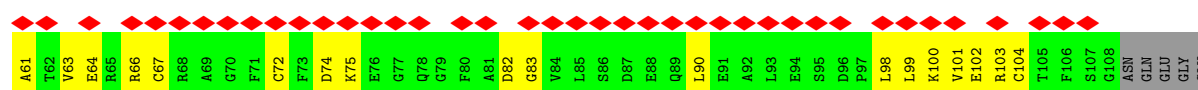
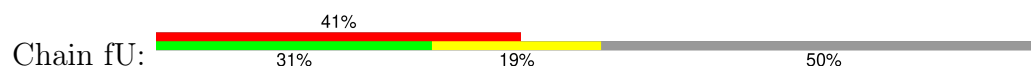
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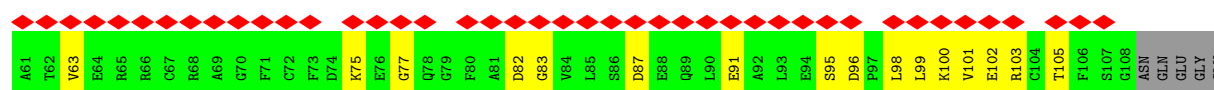
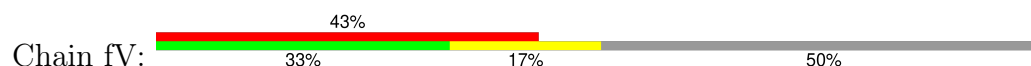
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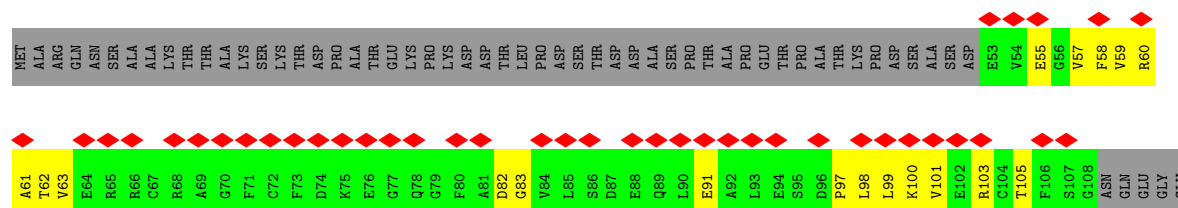
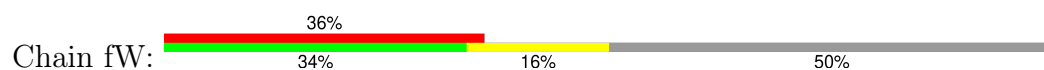
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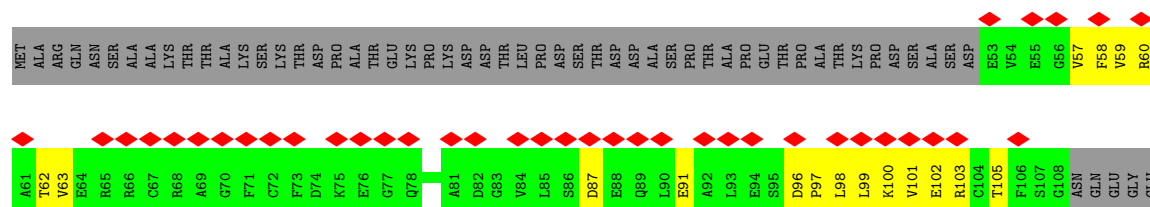
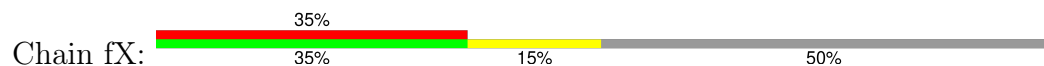
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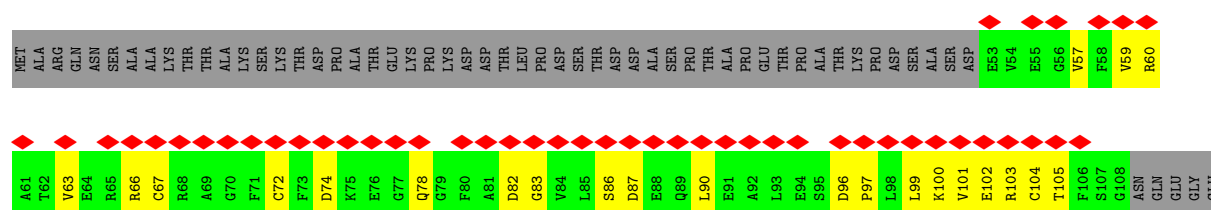
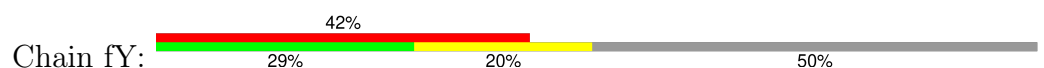
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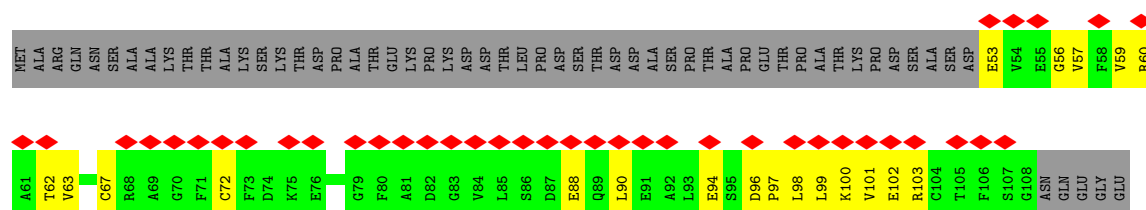
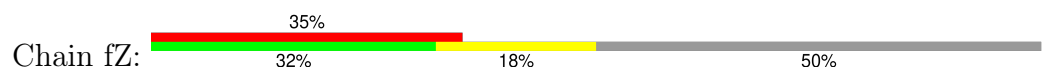
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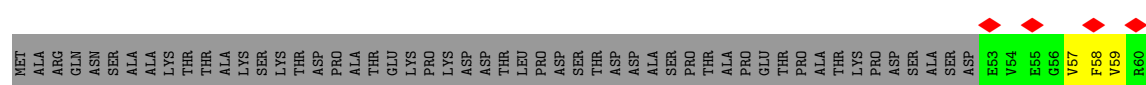
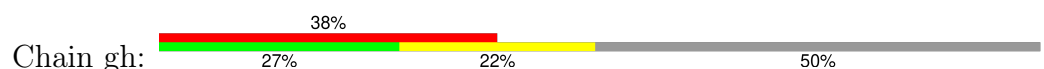
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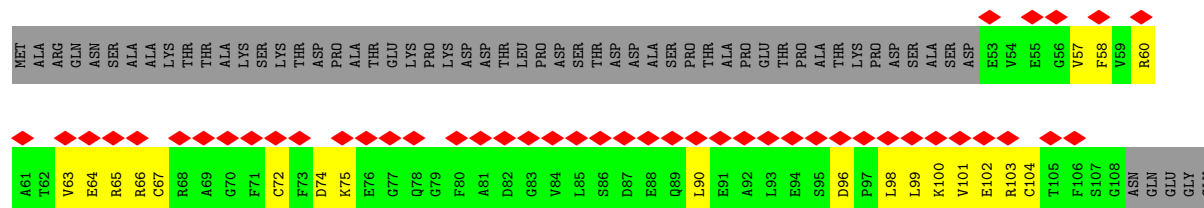
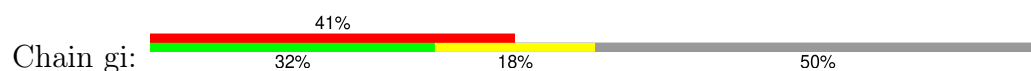


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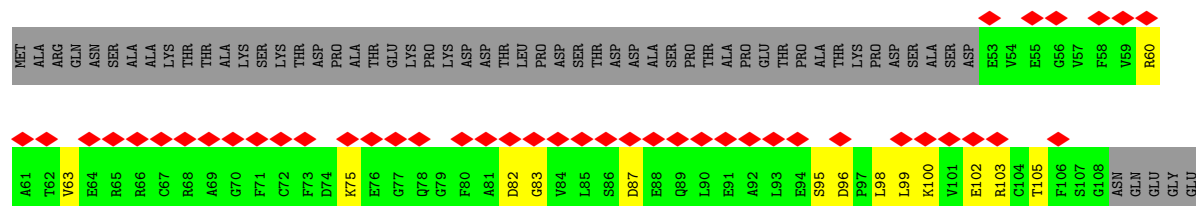
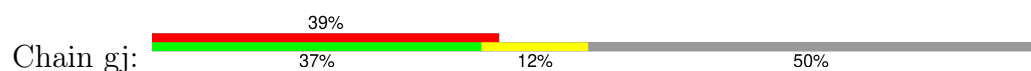




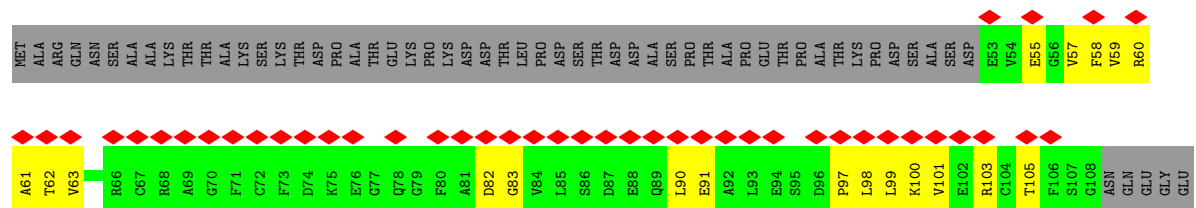
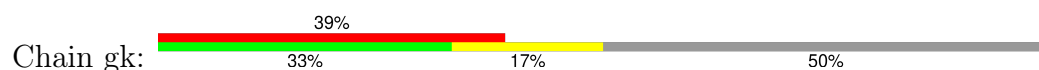
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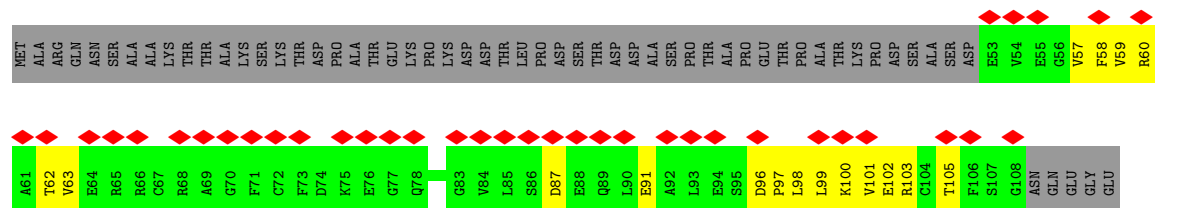
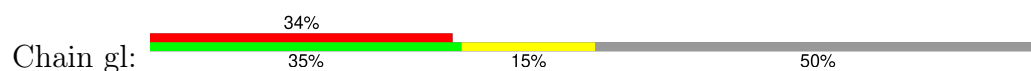
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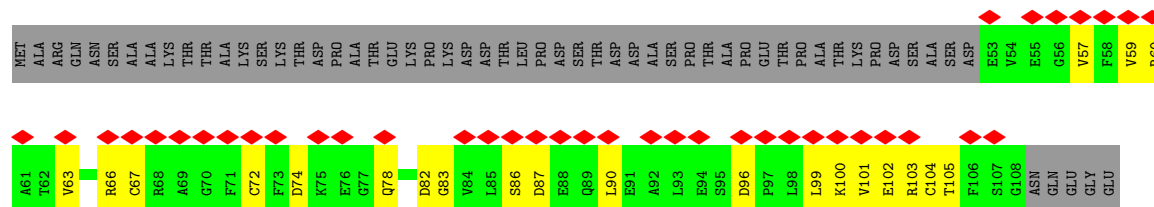
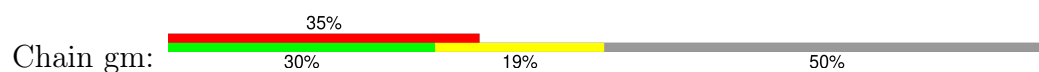
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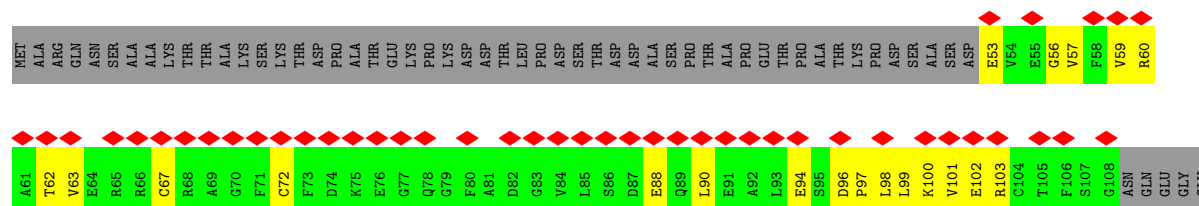
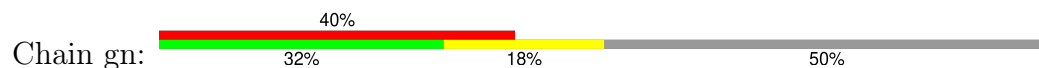
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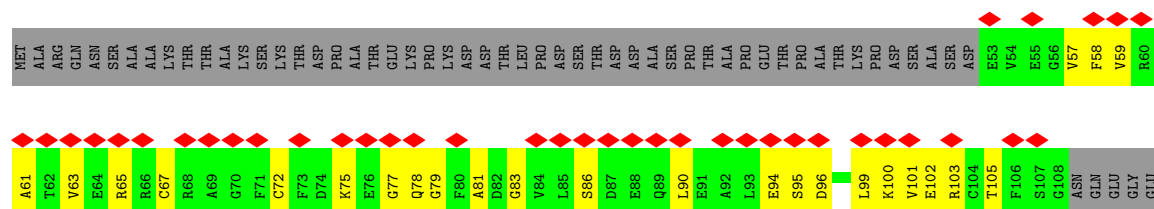
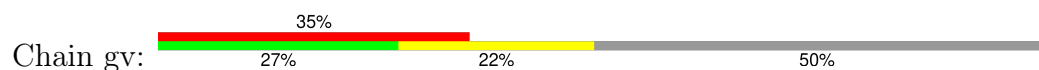
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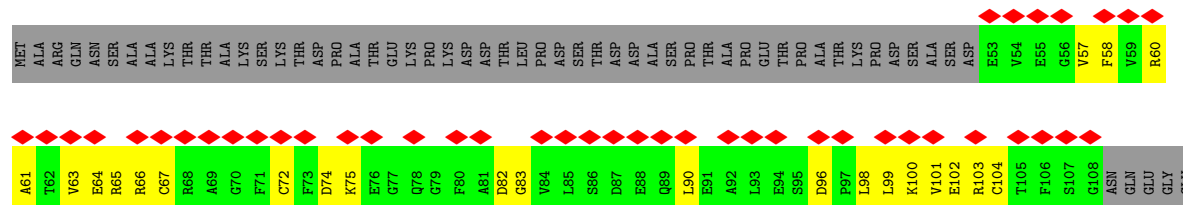
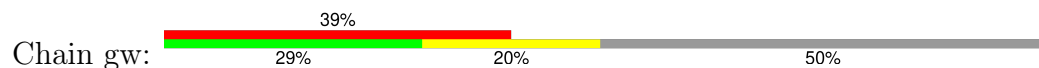
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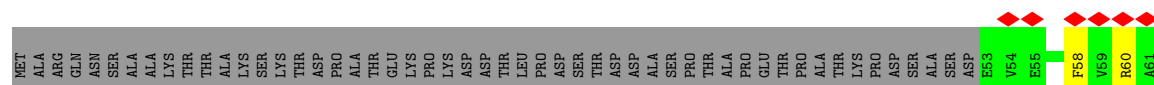
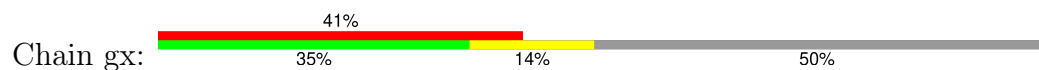
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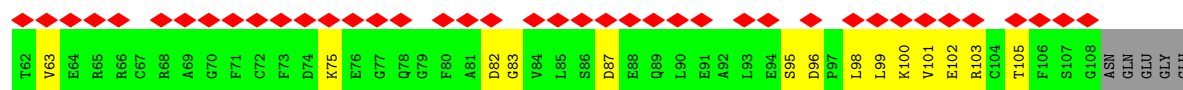


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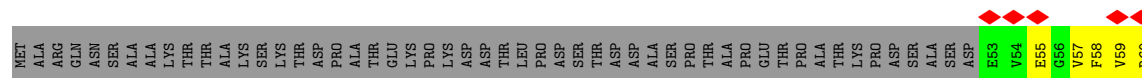
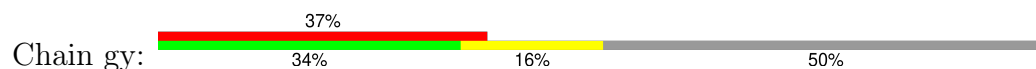


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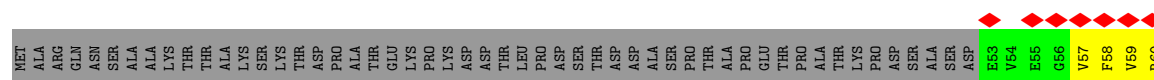
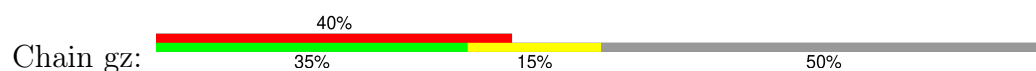




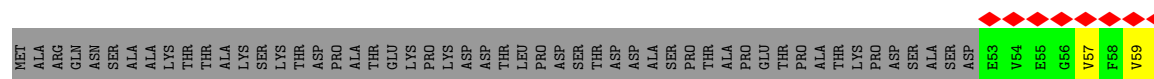
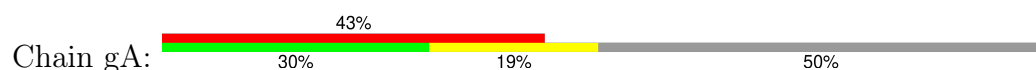
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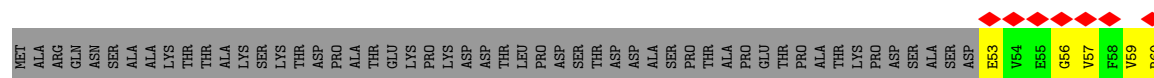
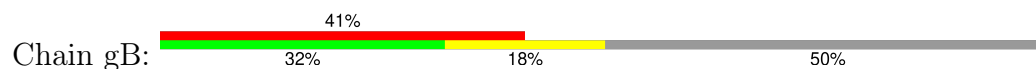
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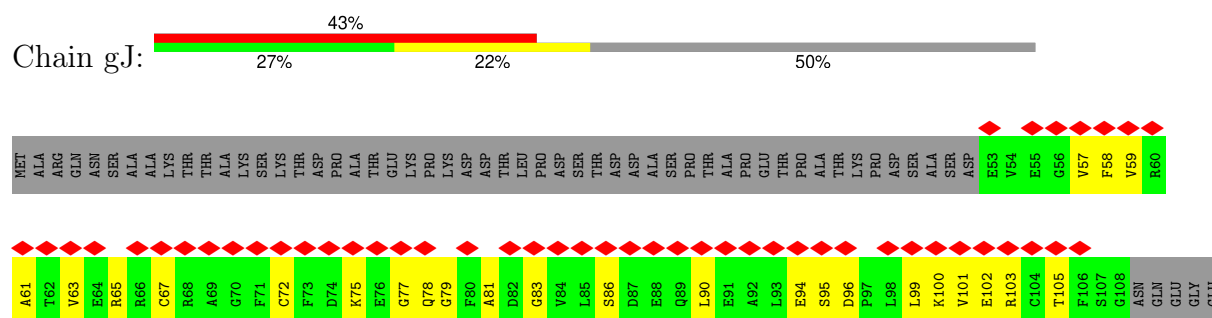
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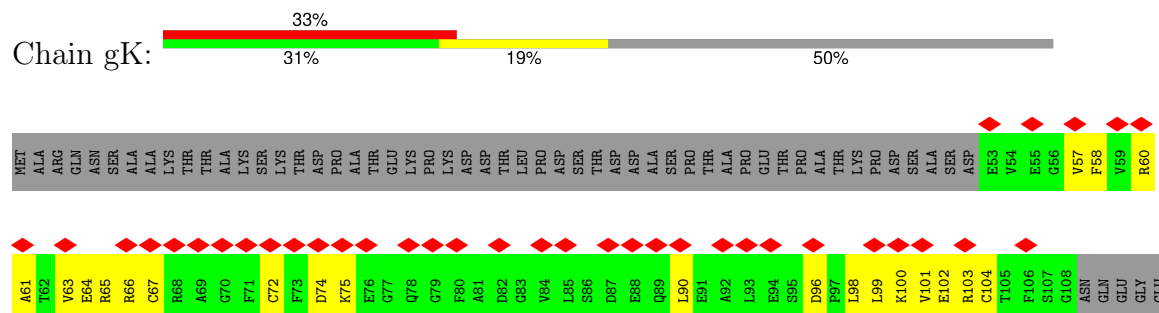
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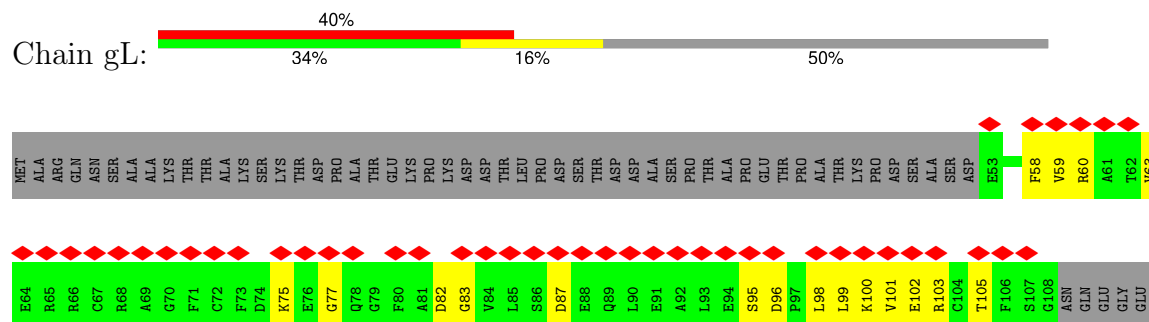
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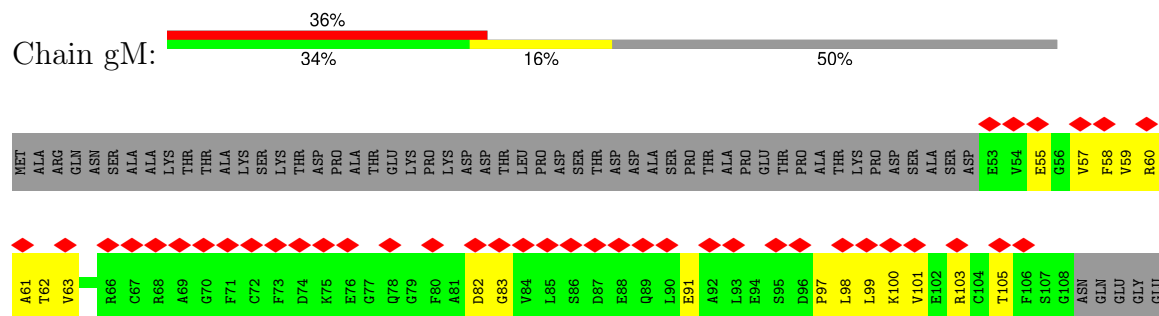
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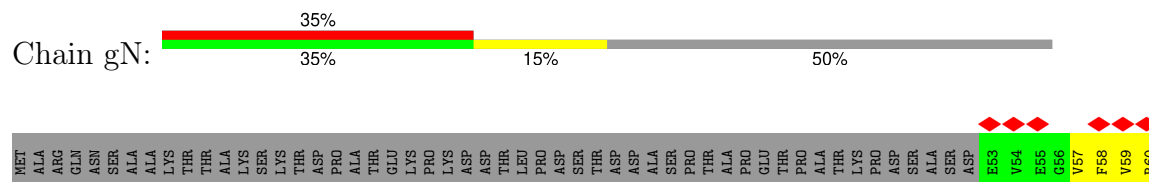
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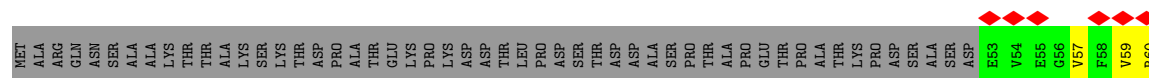
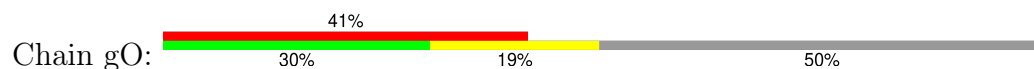


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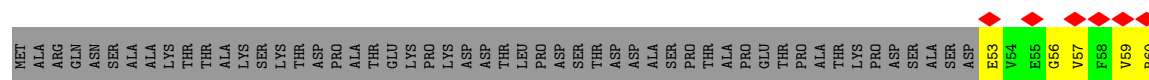
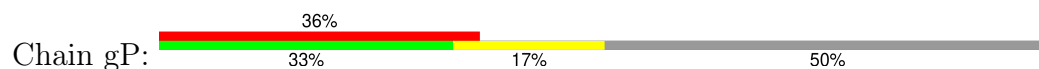




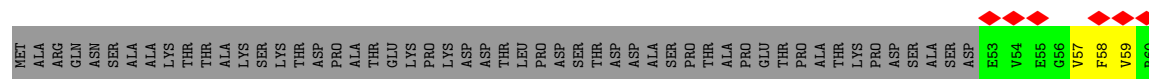
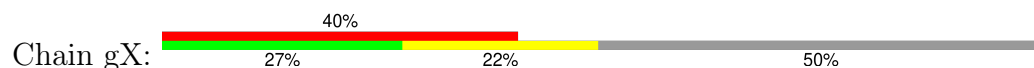
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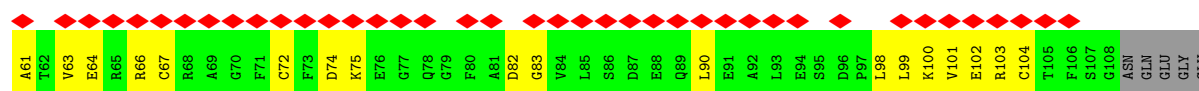
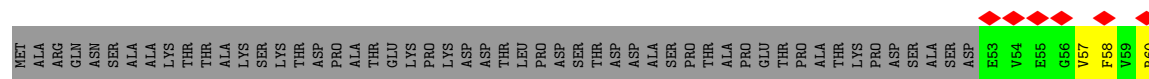
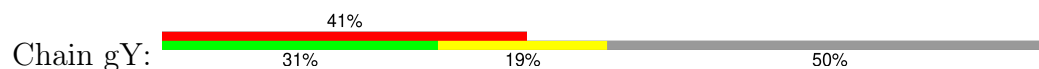
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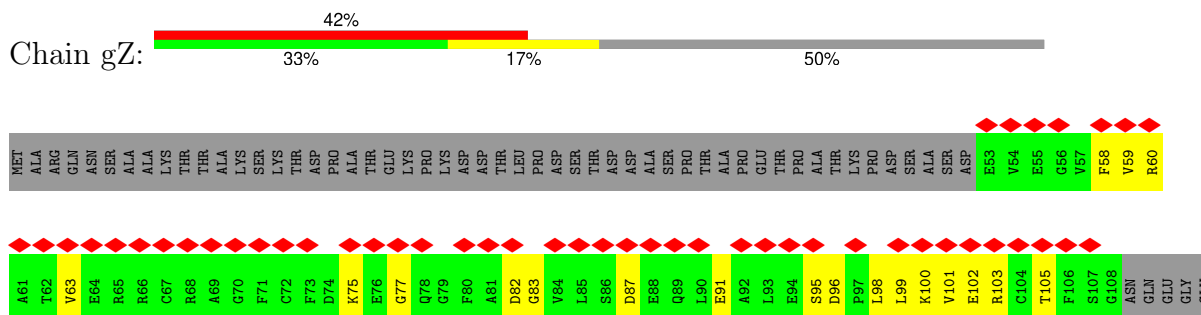
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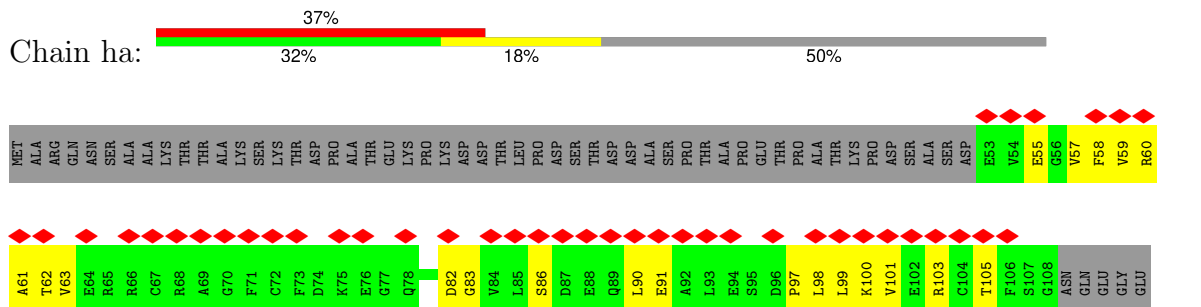
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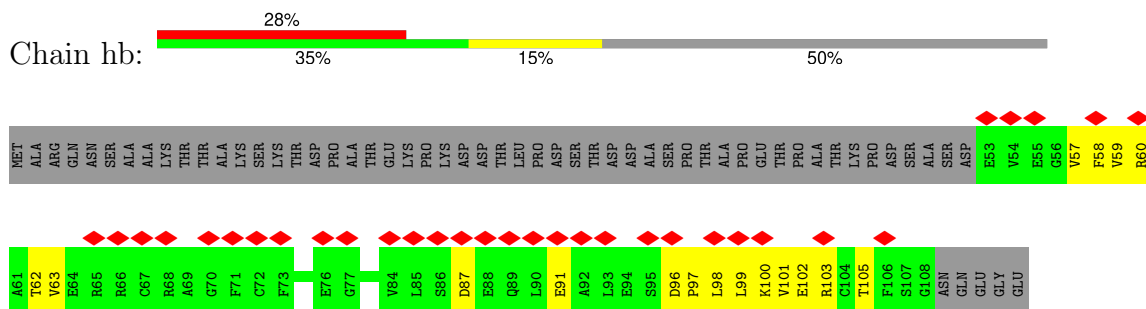
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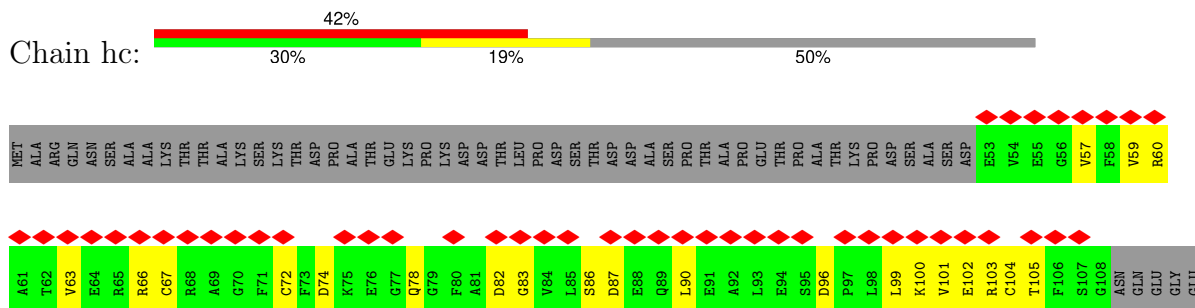
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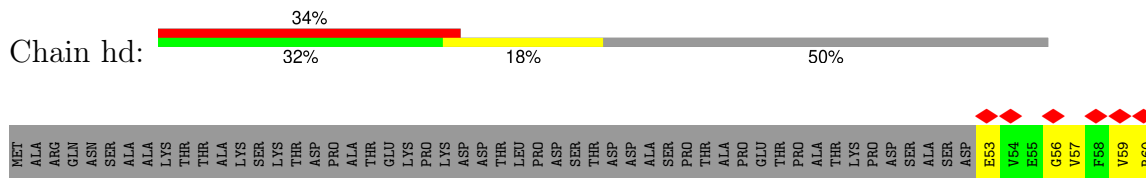
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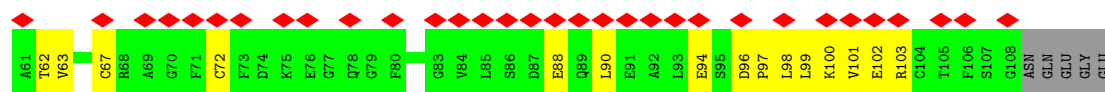


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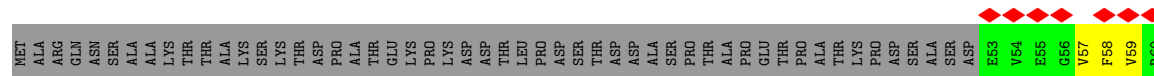
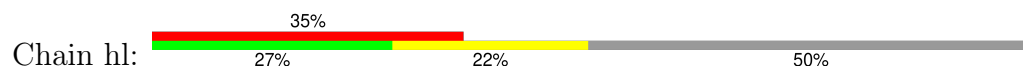


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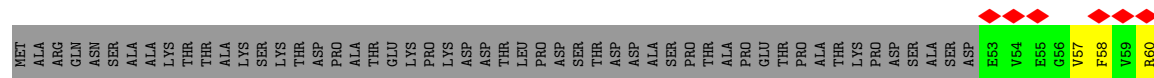
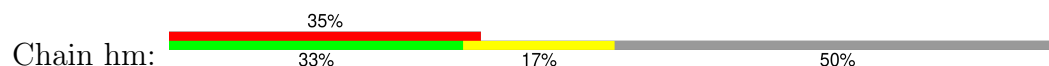




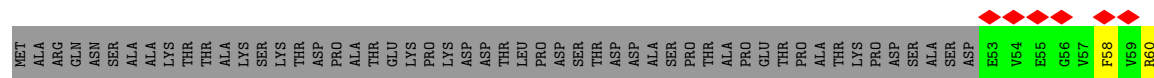
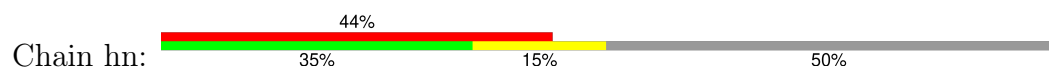
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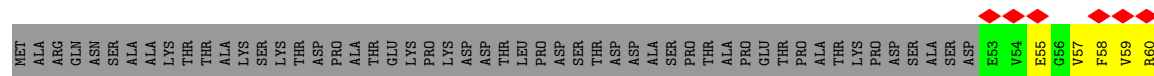
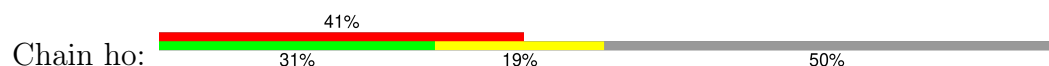
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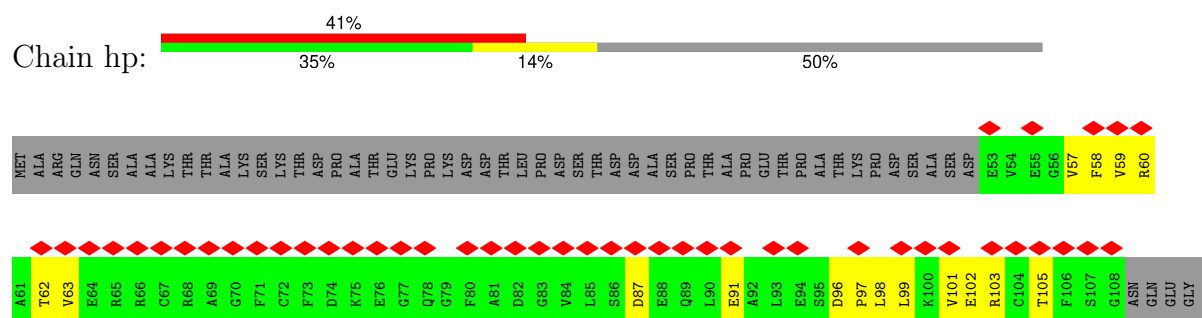
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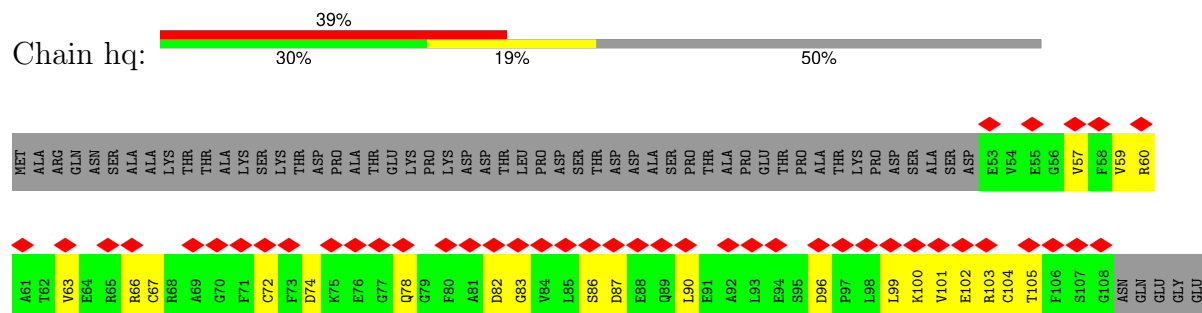
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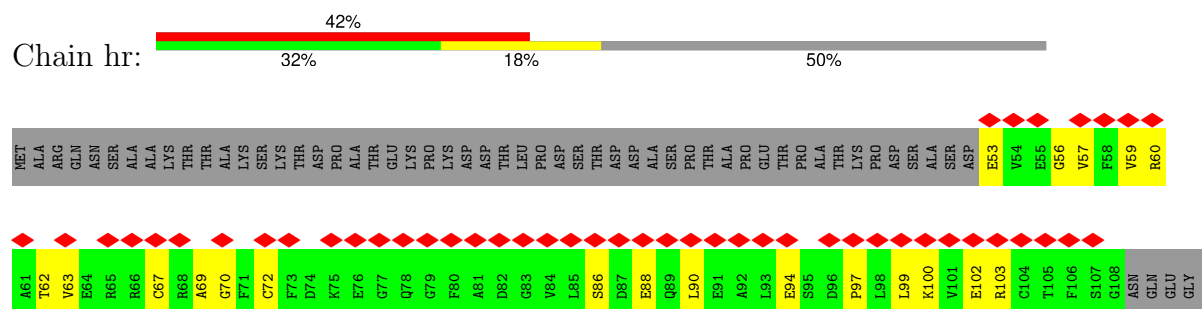
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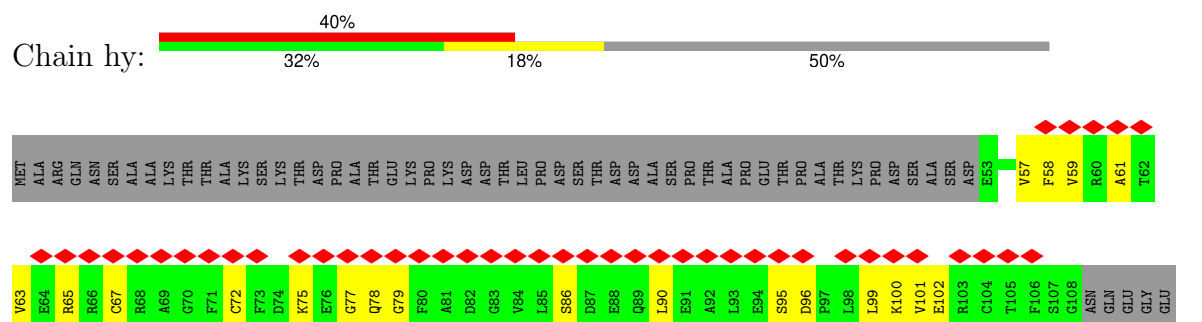
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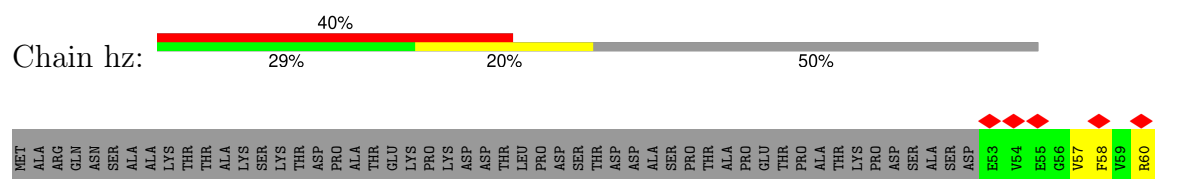
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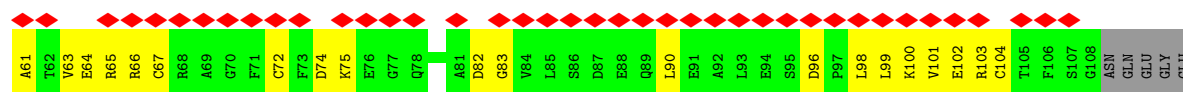


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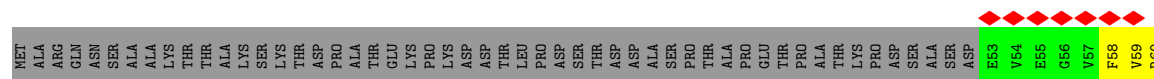
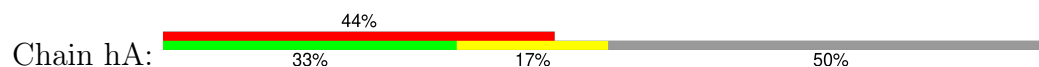


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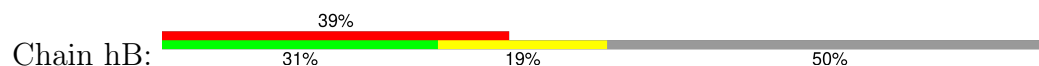




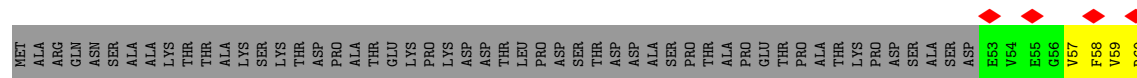
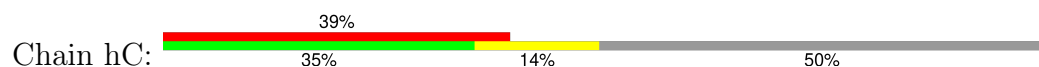
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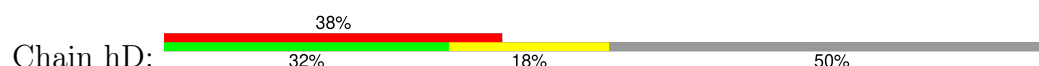
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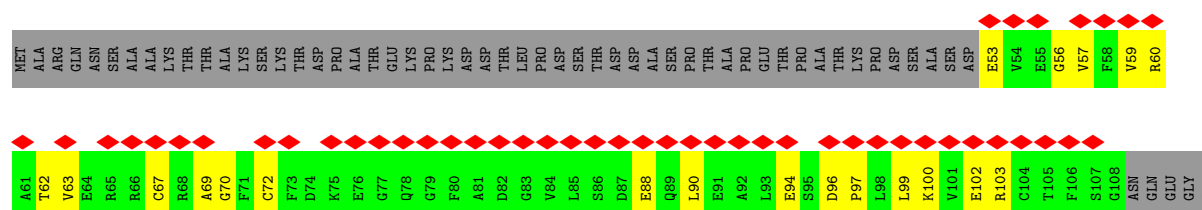
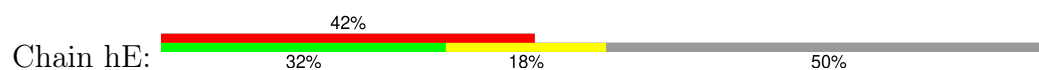


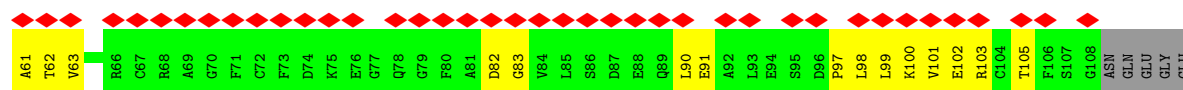
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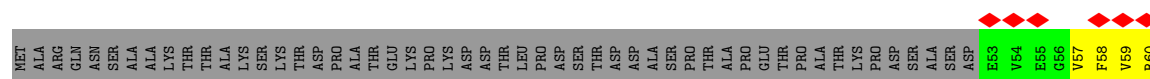
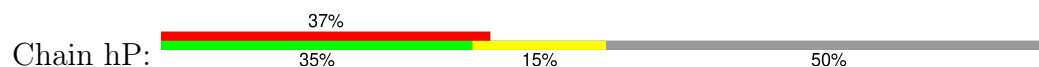
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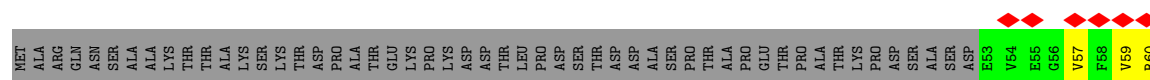
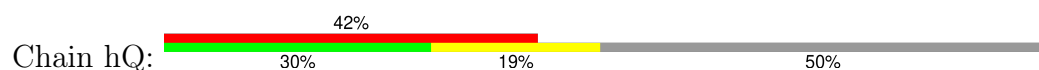




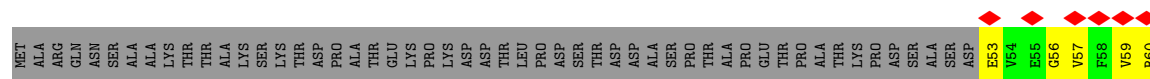
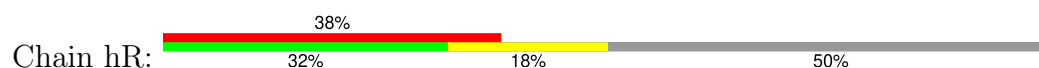
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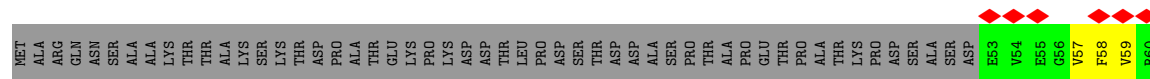
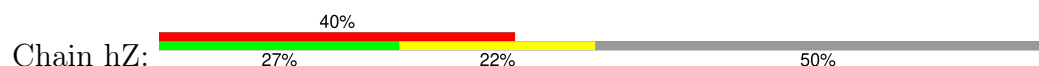
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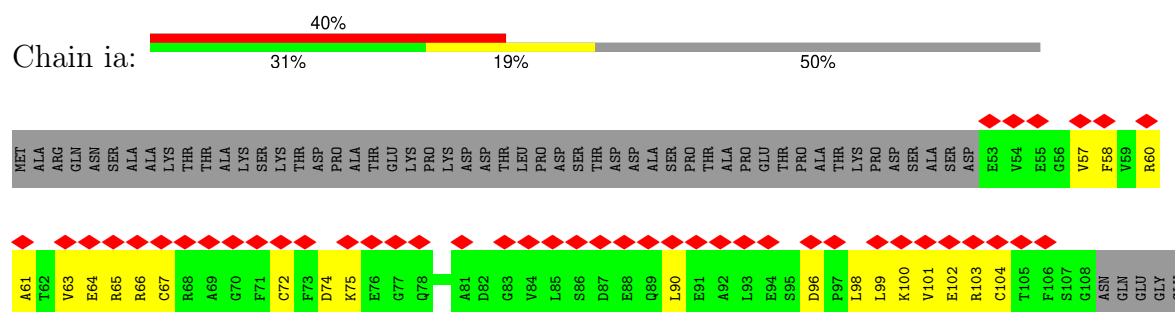


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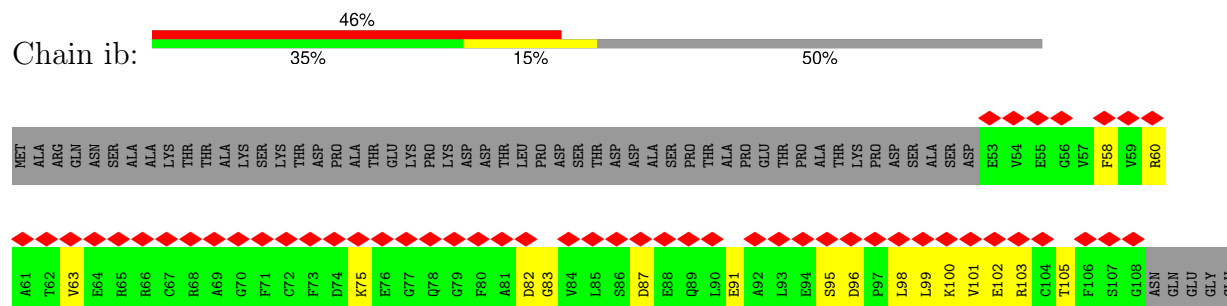


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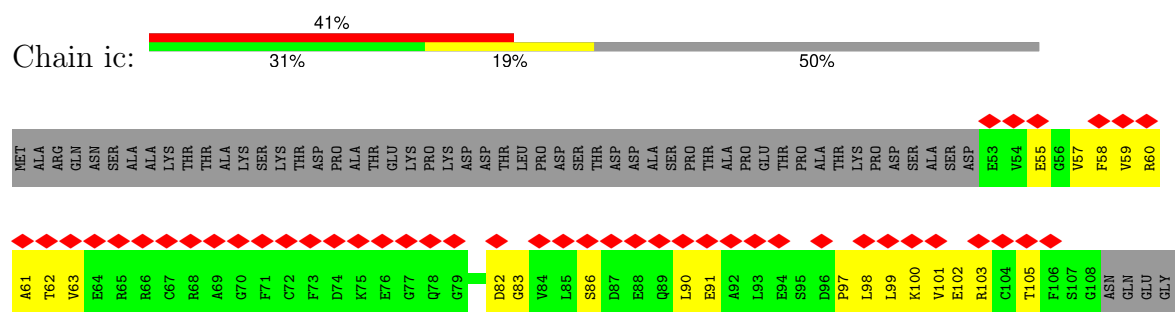




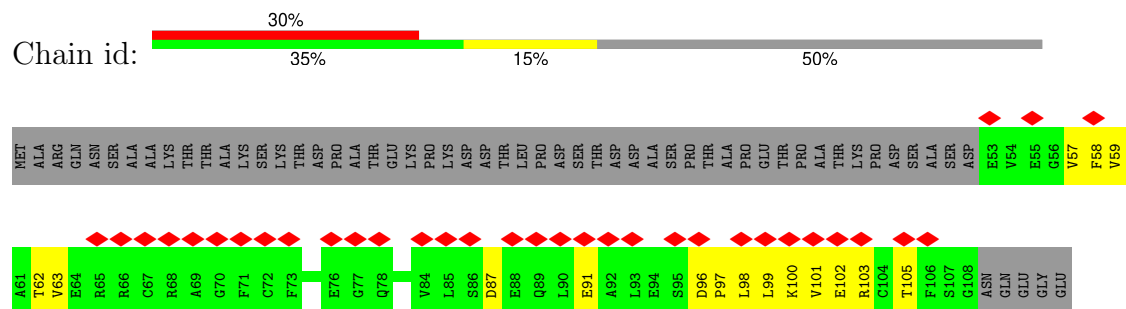
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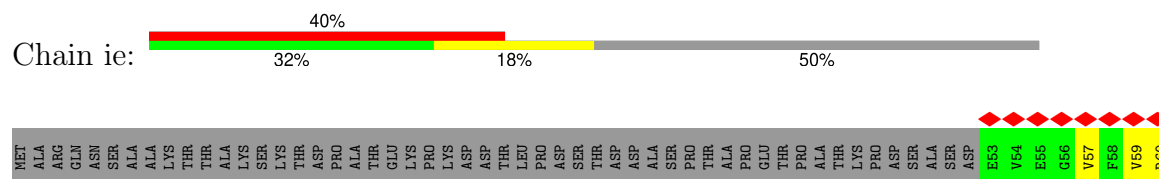
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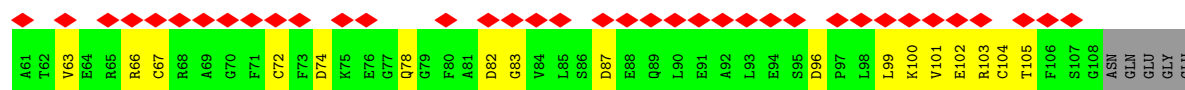


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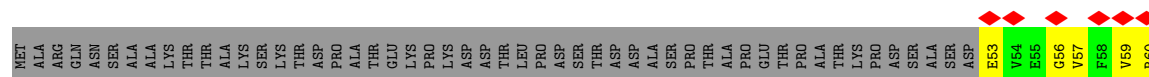
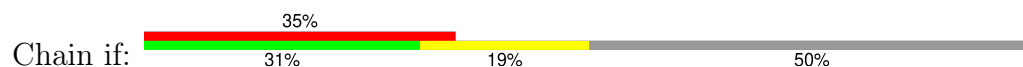


- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein

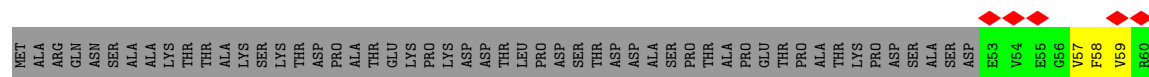
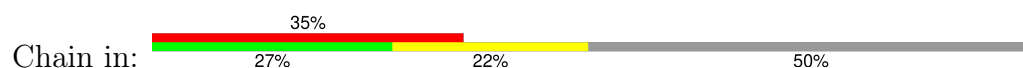




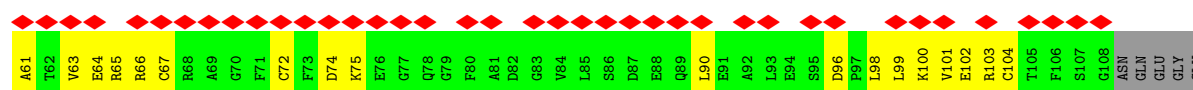
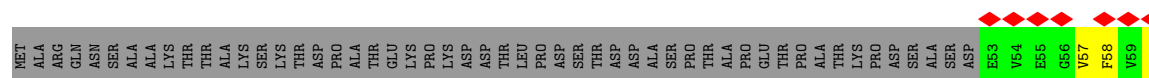
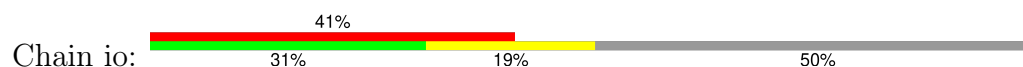
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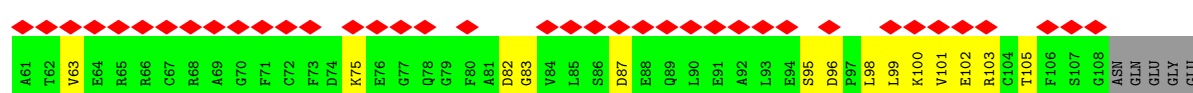
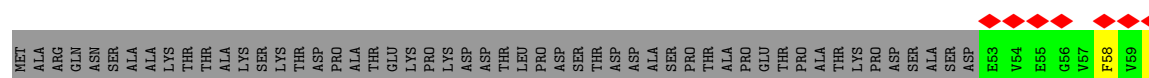
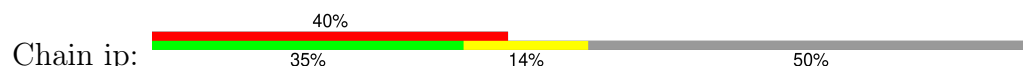
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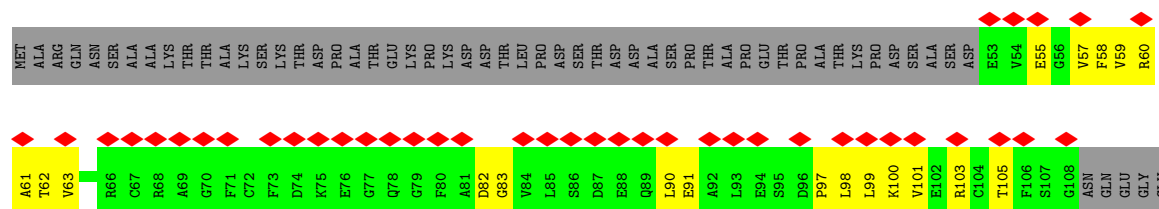
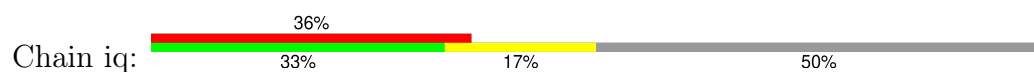
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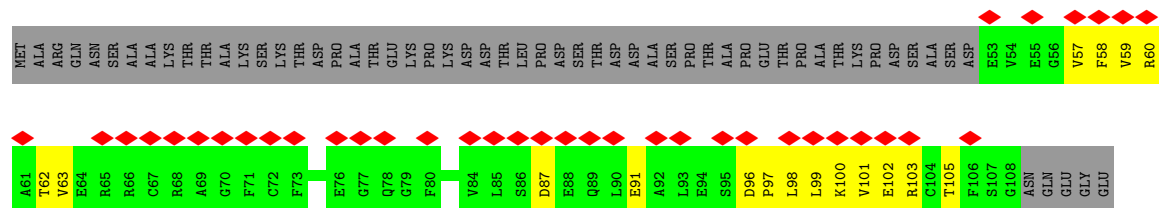
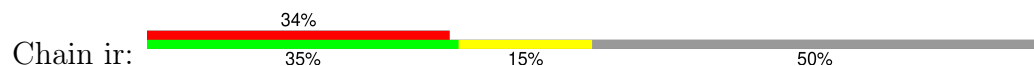
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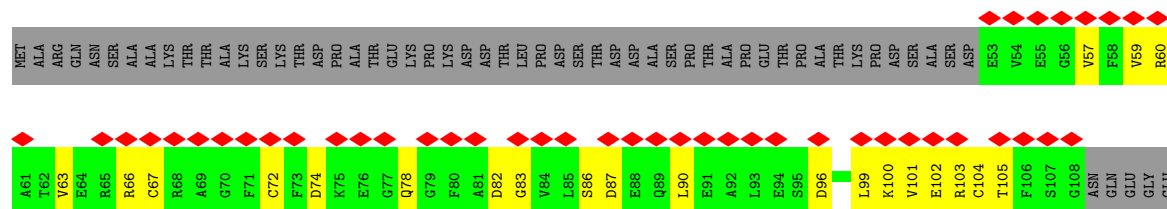
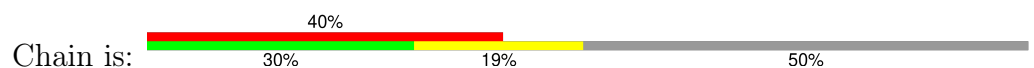
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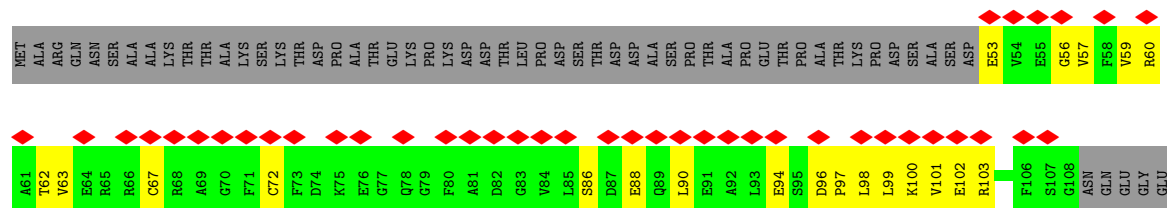
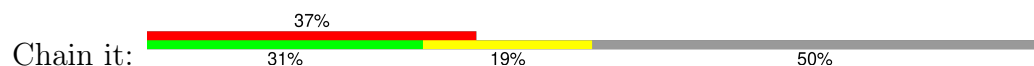
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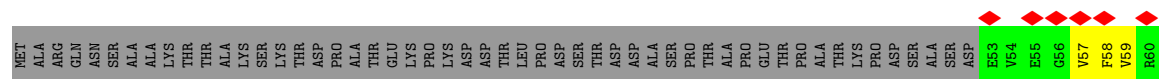
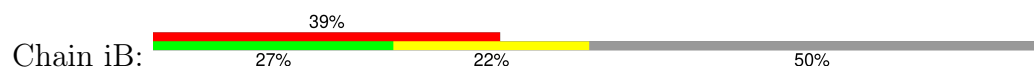
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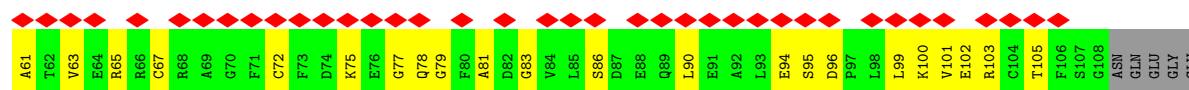


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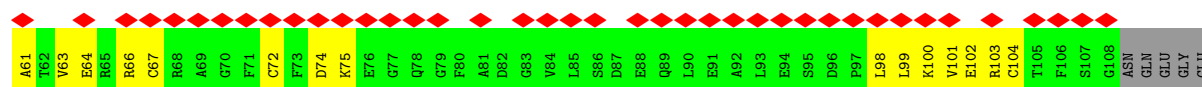
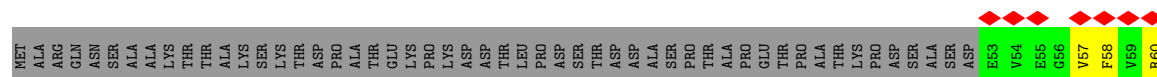
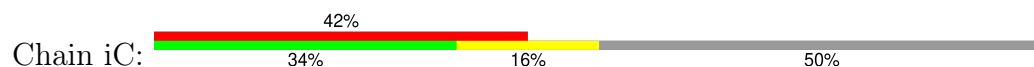


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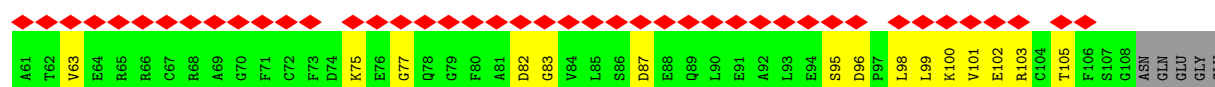
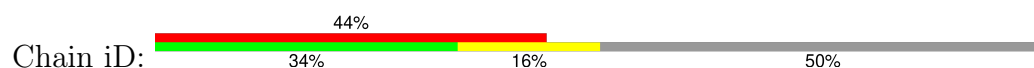




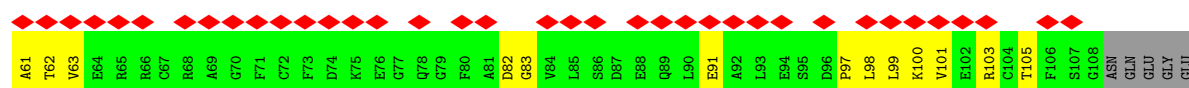
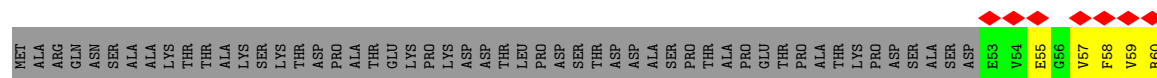
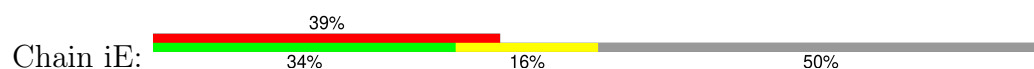
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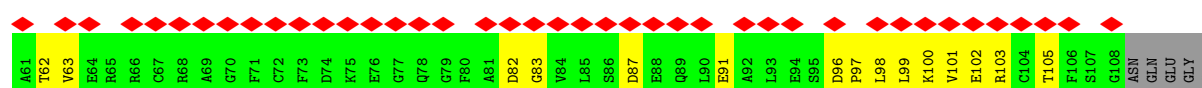
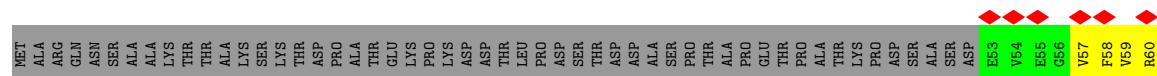
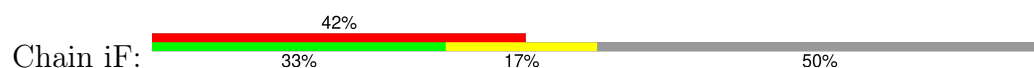
- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein



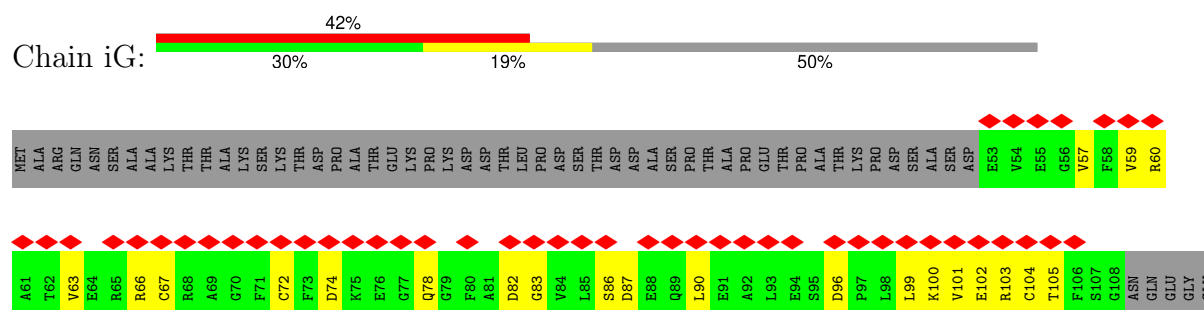
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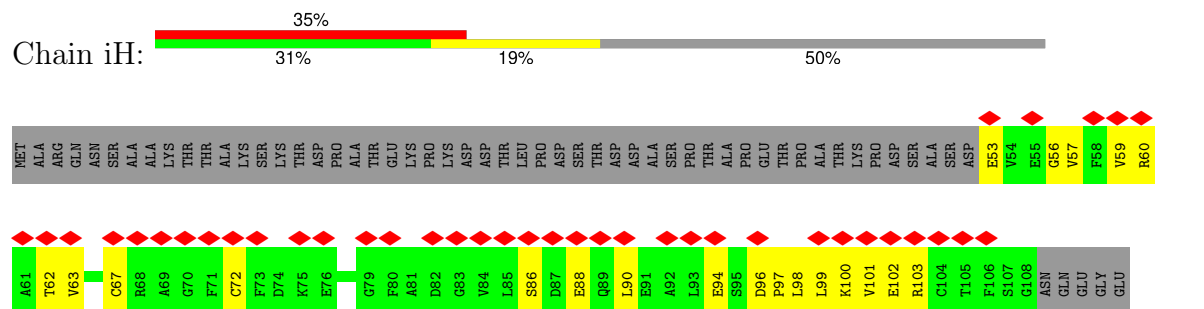
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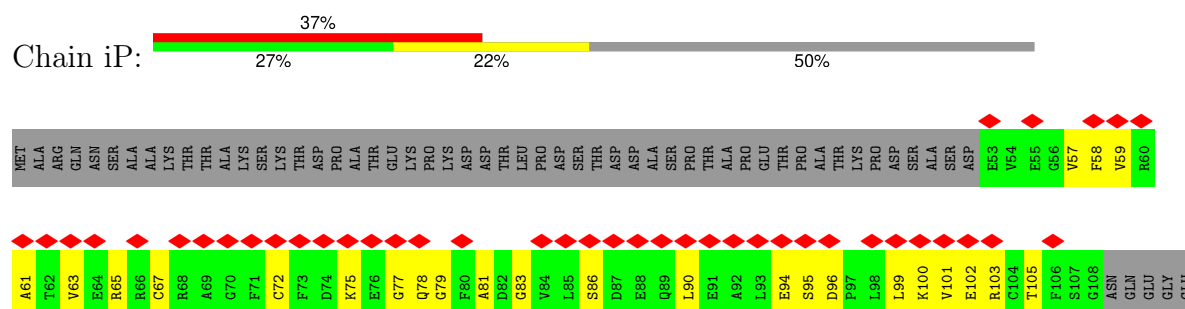
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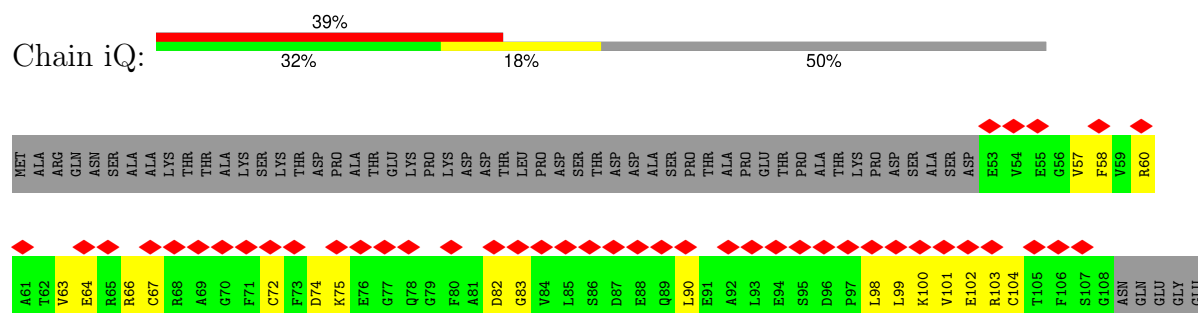
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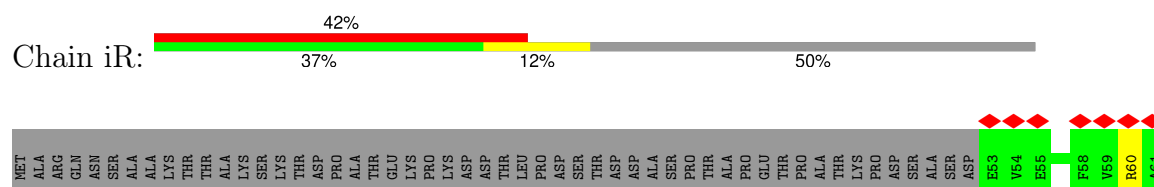
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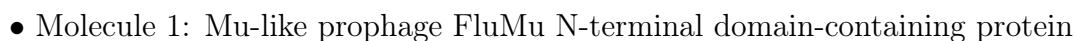


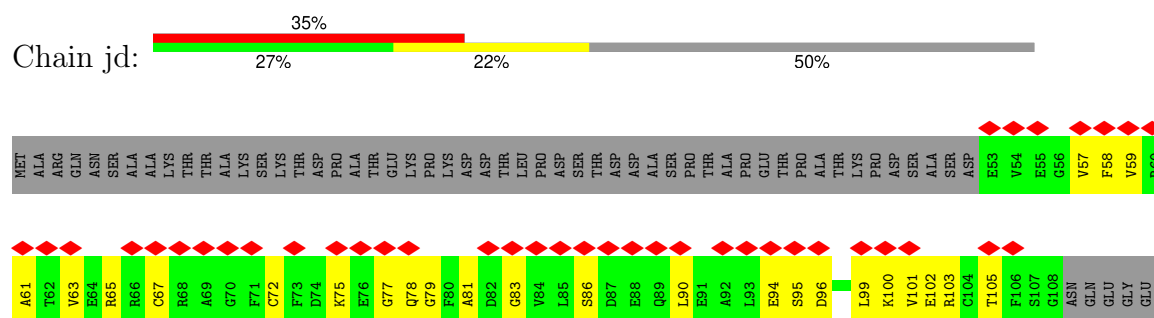
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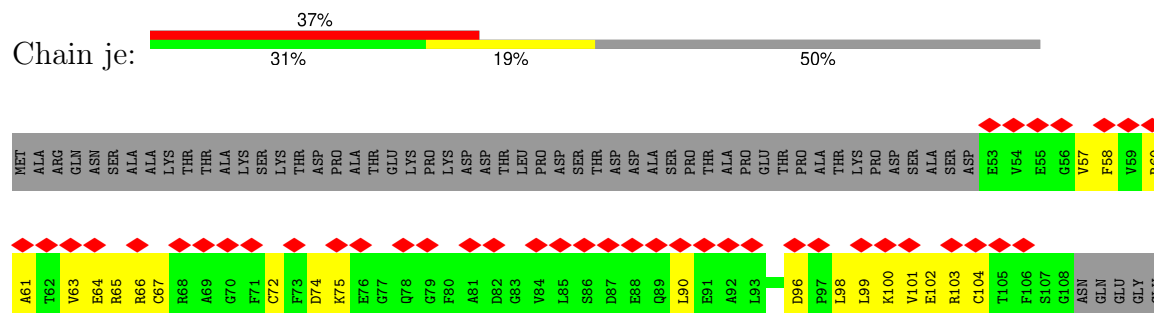
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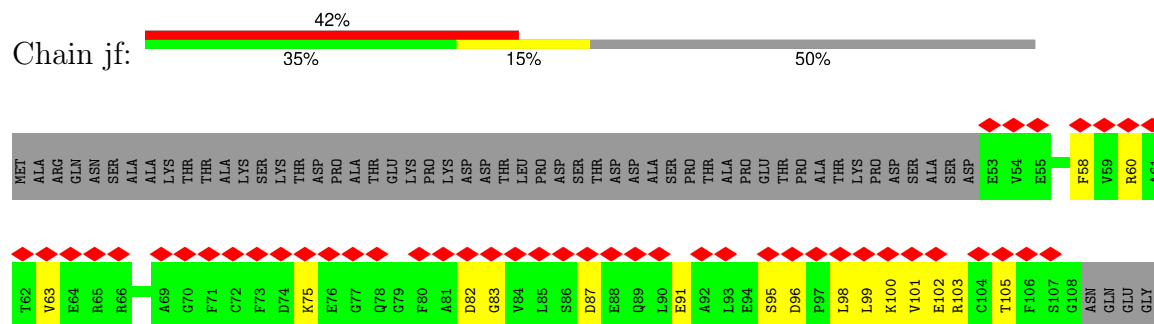




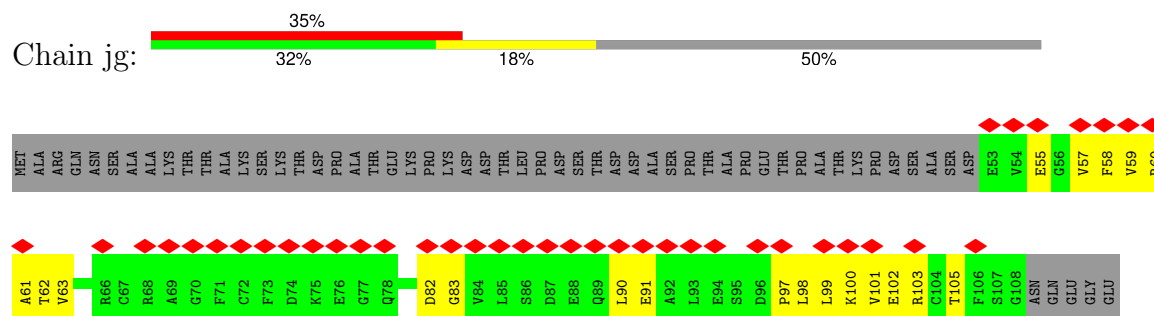
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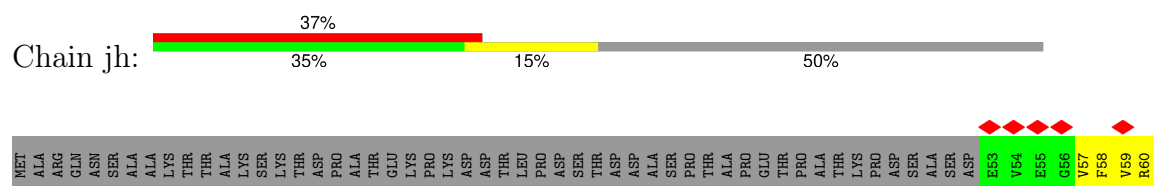
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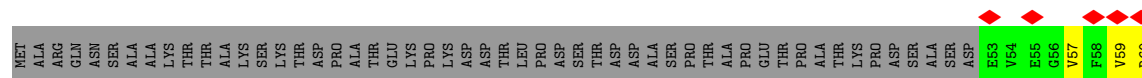
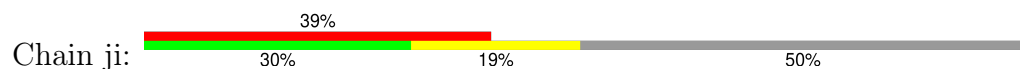


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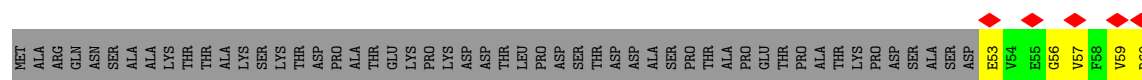
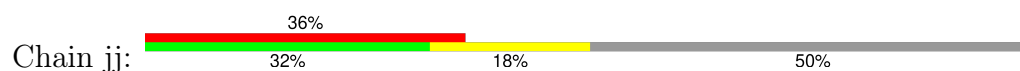




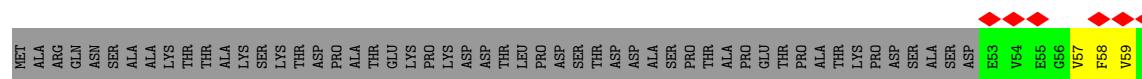
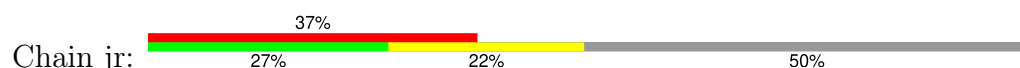
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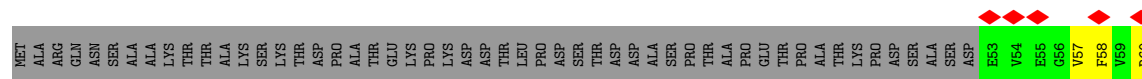
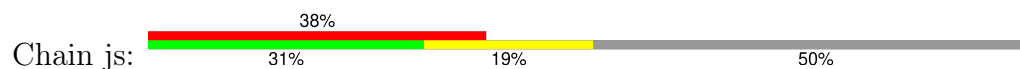
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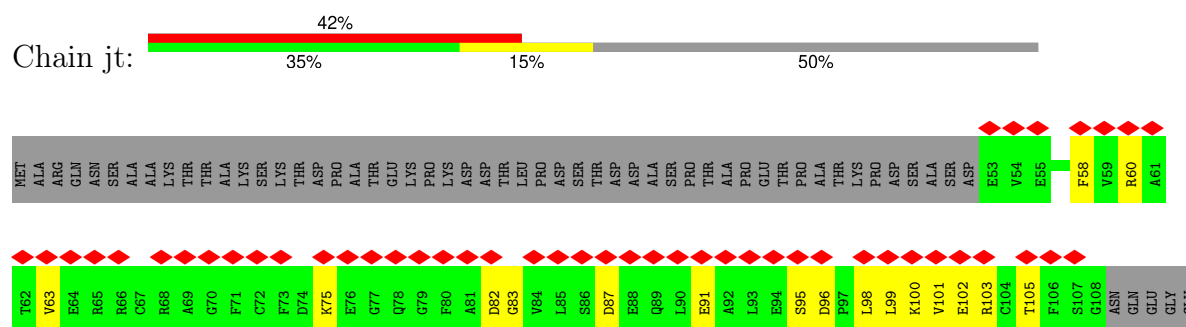
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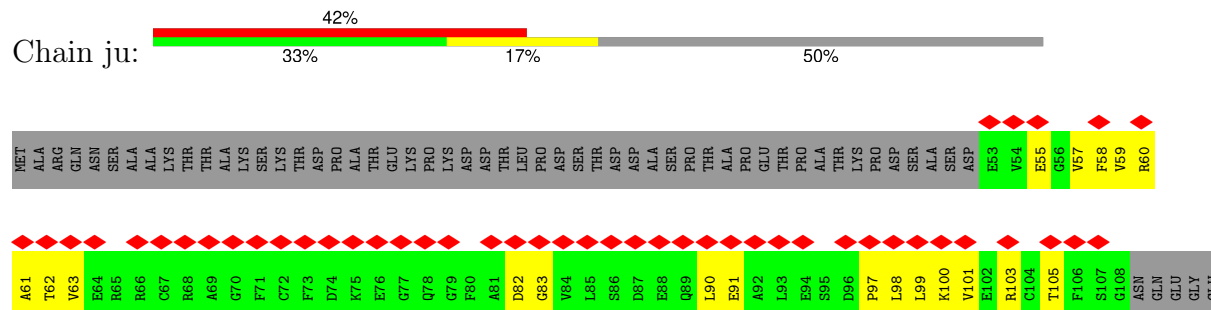
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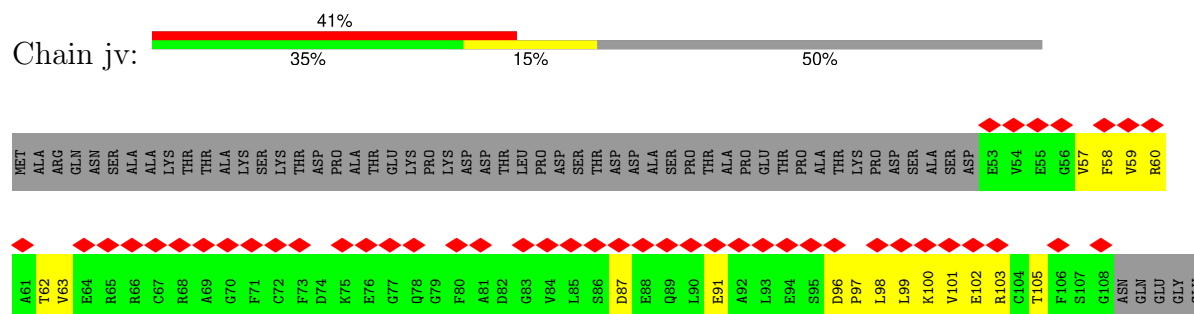
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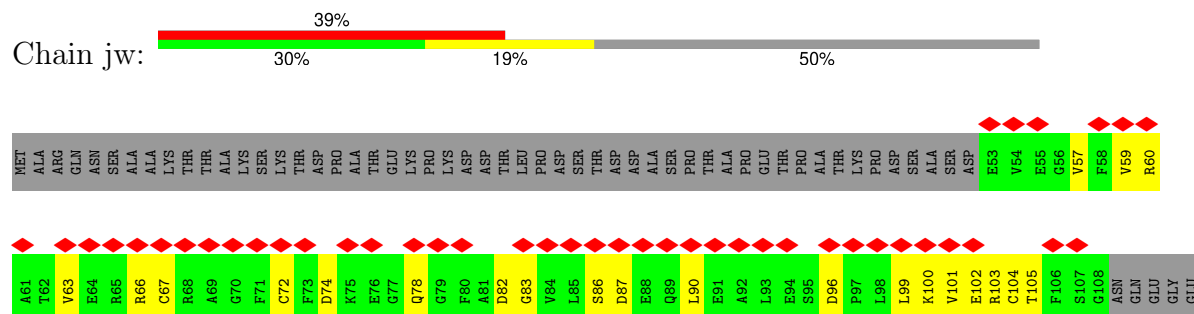
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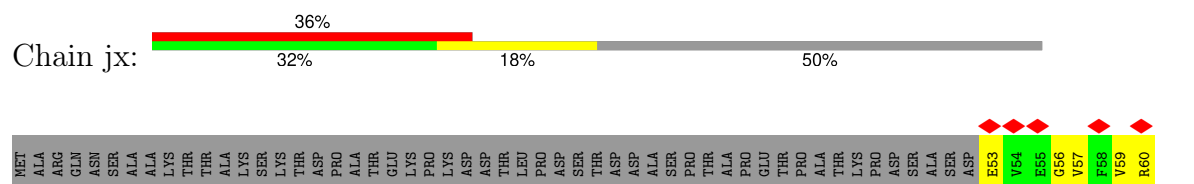
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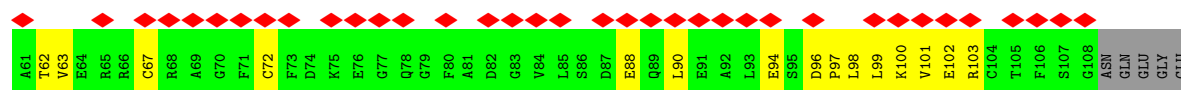


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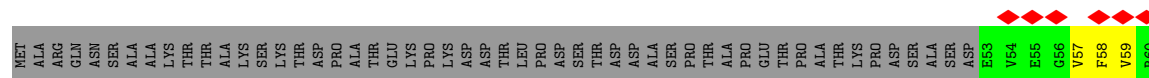
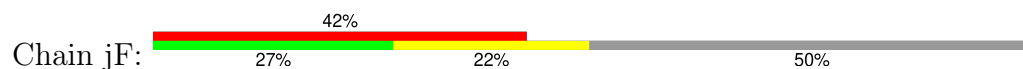


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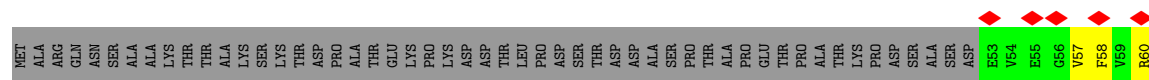
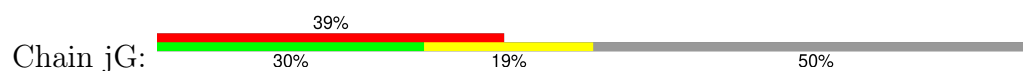




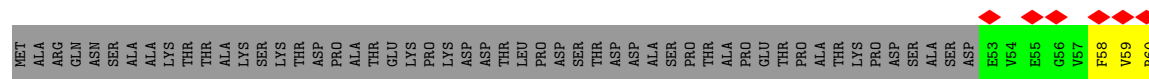
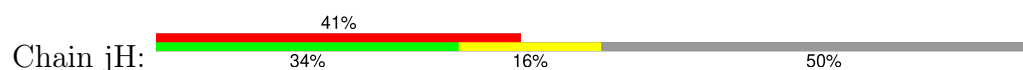
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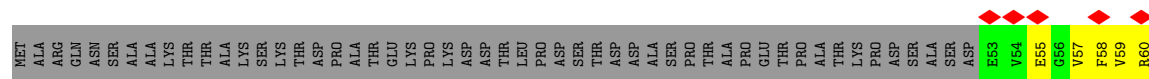
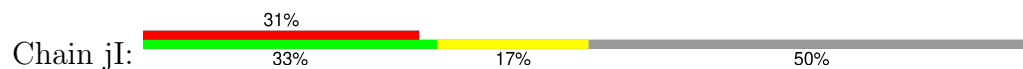
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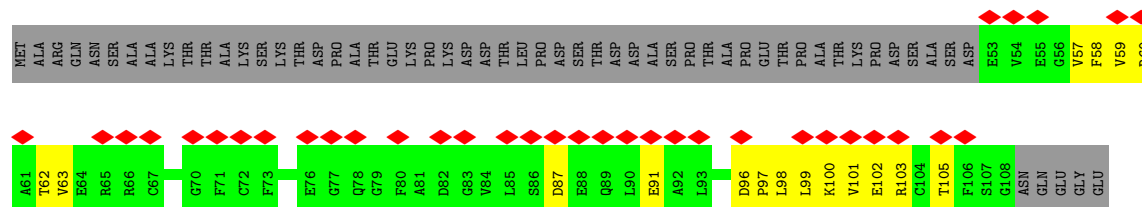
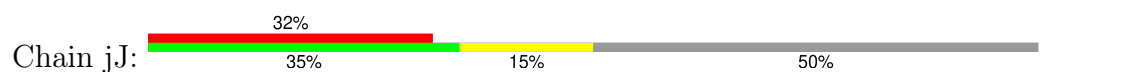
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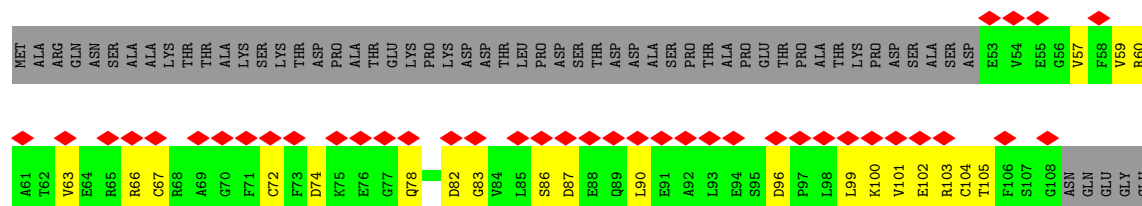
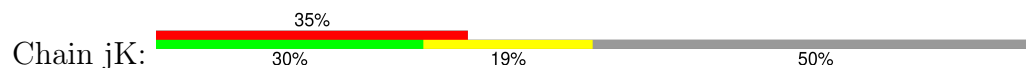
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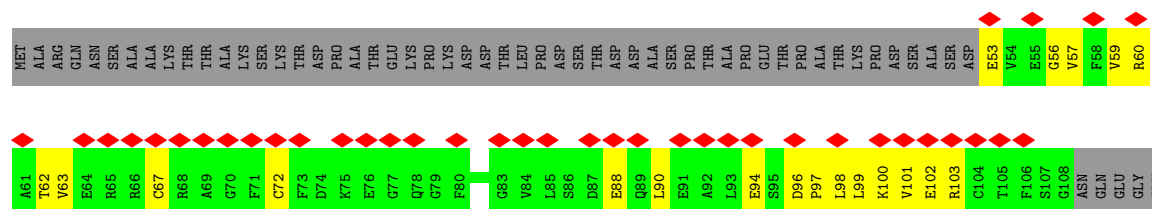
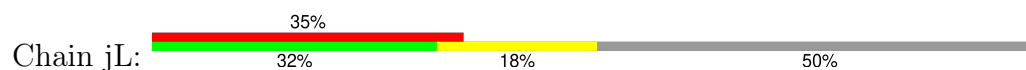
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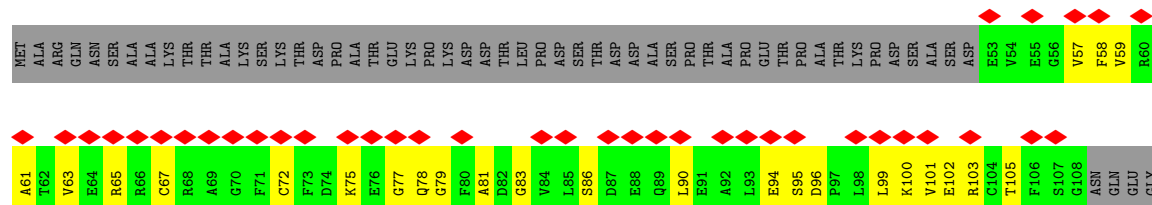
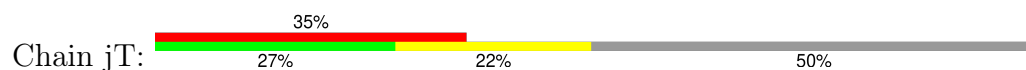
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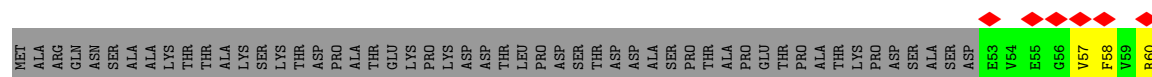
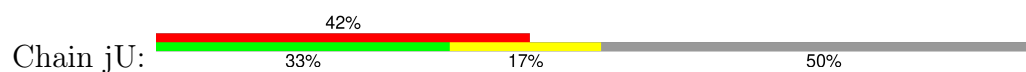
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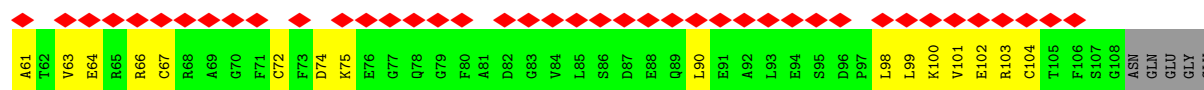


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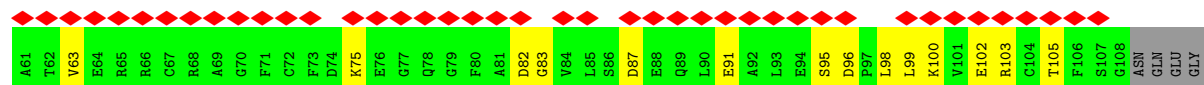
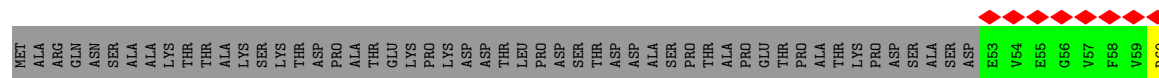
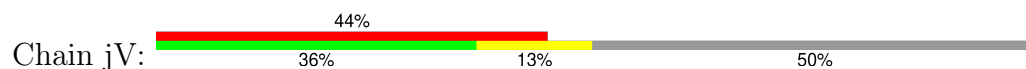


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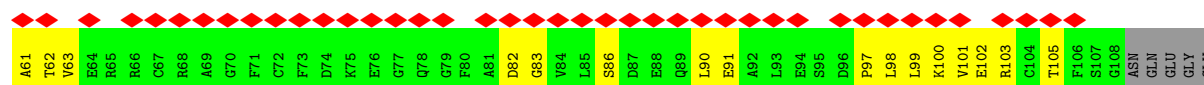
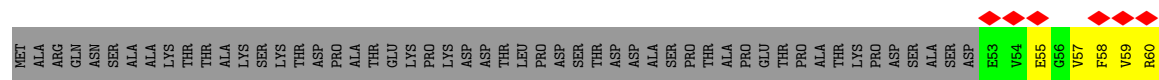
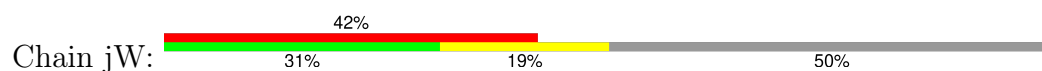




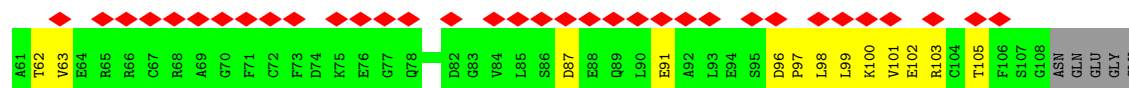
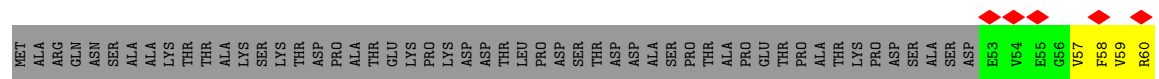
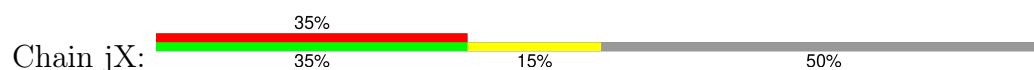
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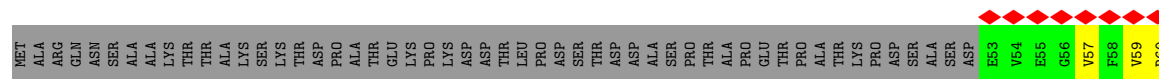
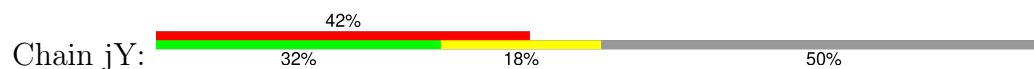
- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein



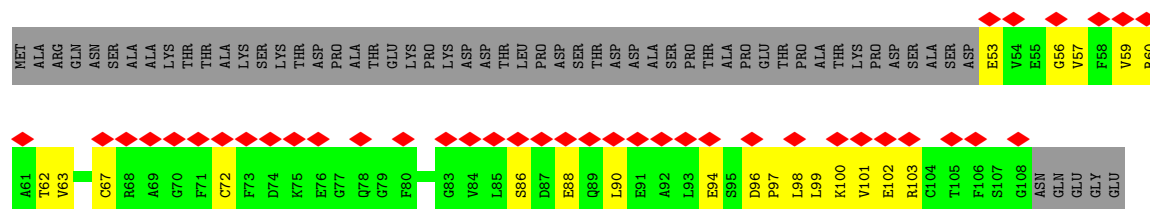
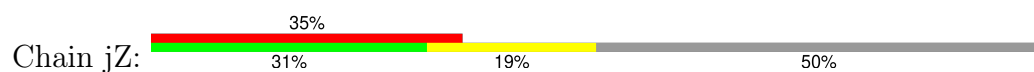
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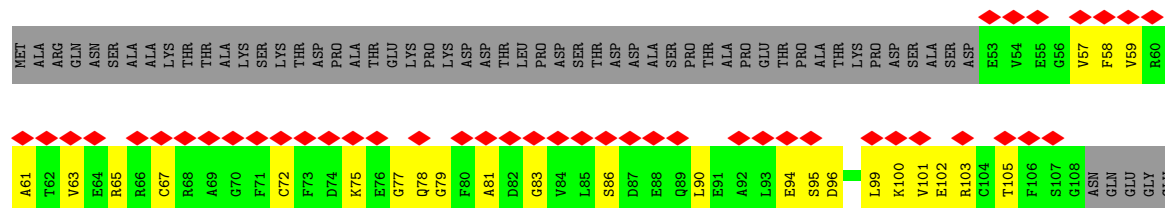
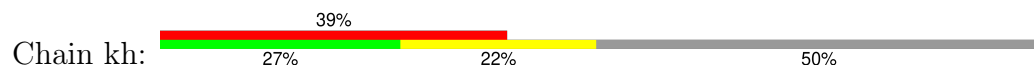
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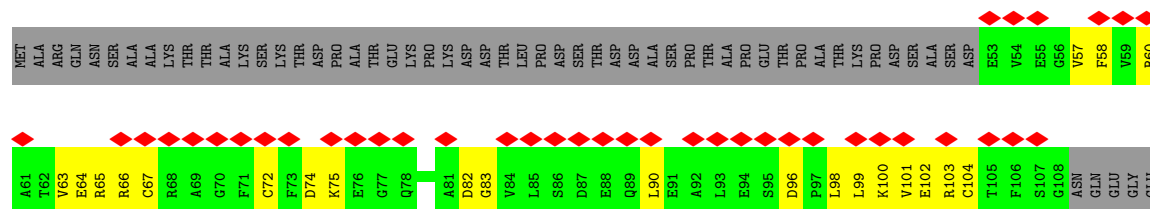
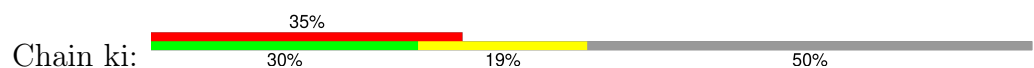
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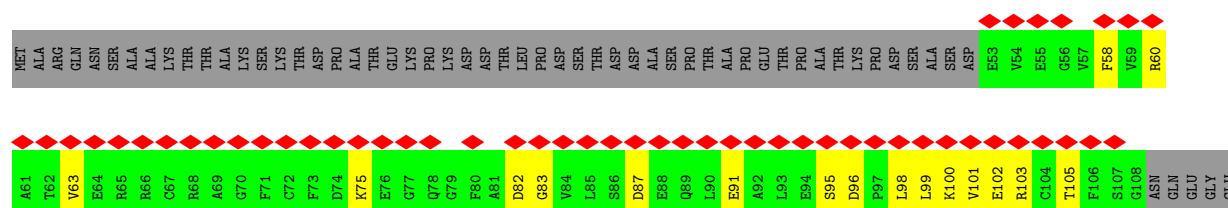
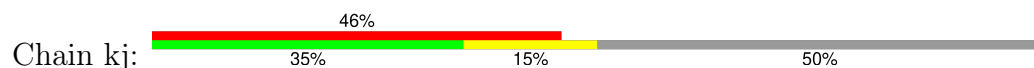
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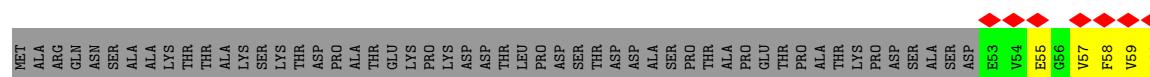
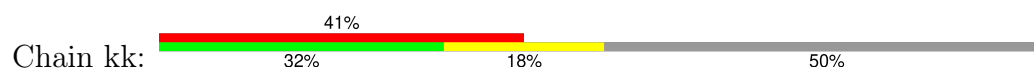
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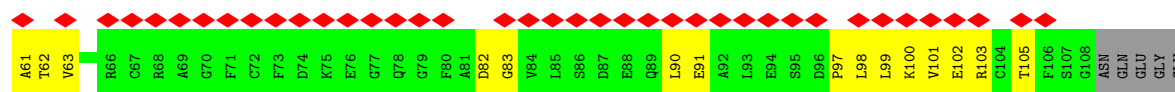


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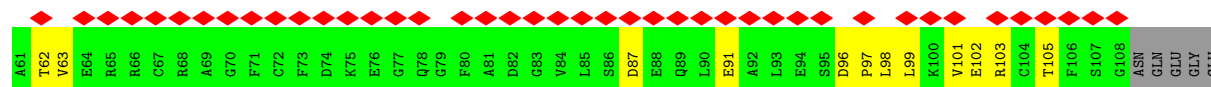
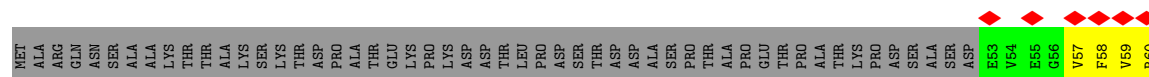
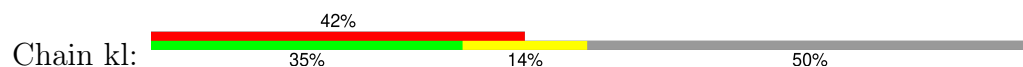


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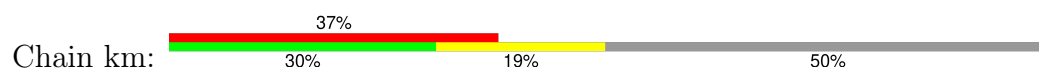




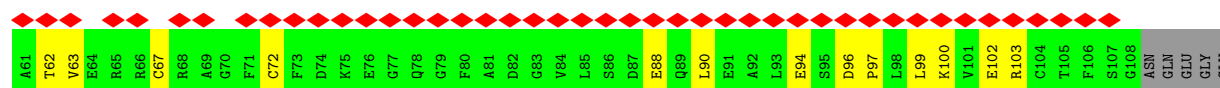
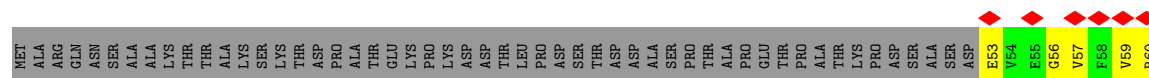
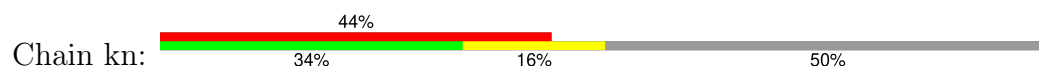
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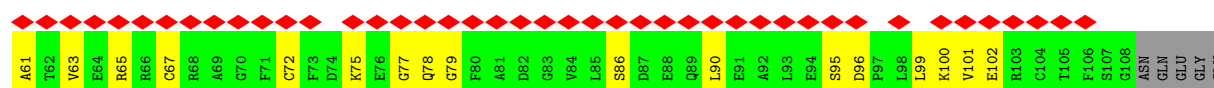
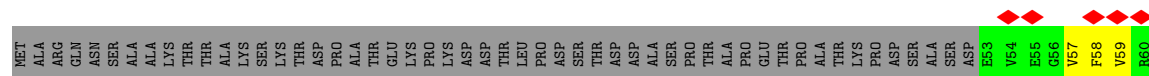
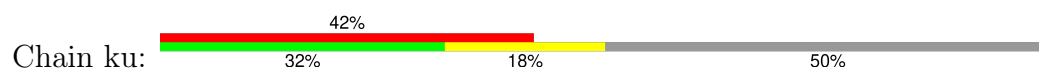
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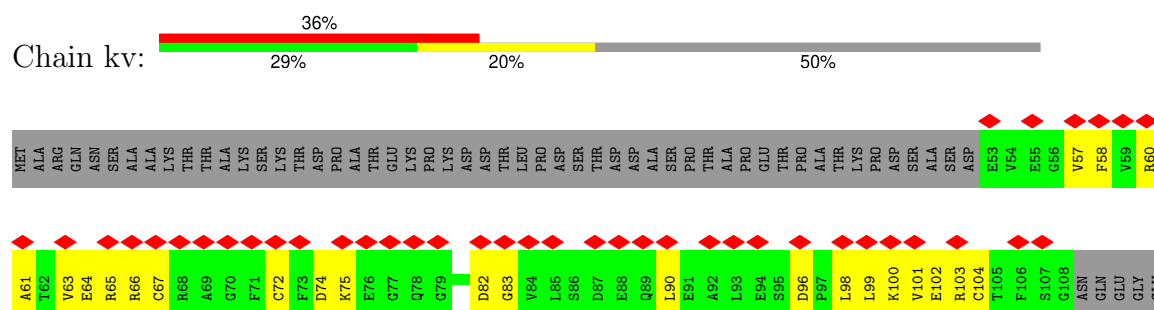
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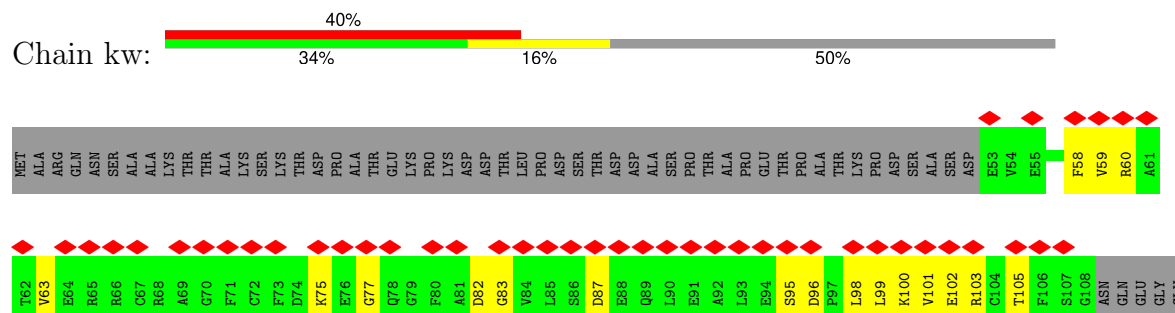
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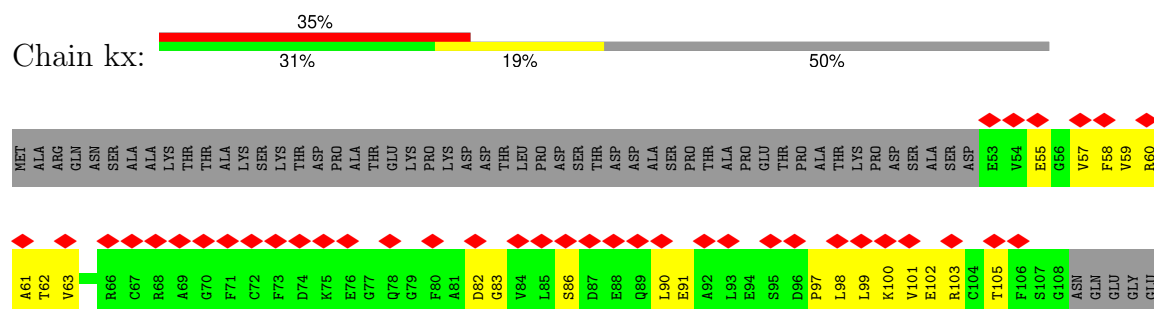
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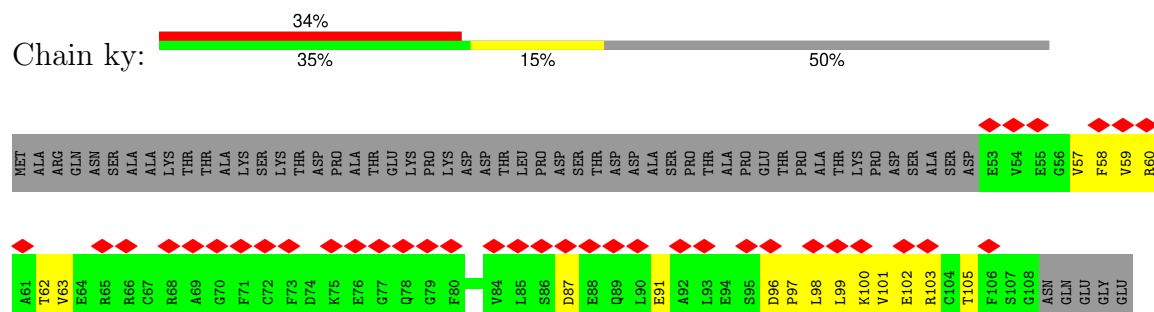
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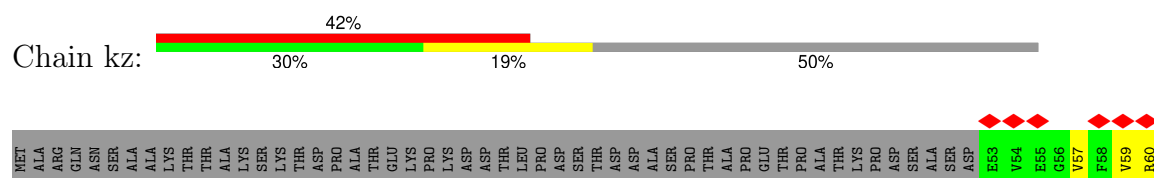
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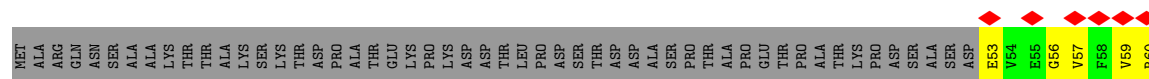
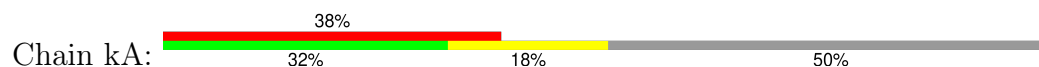


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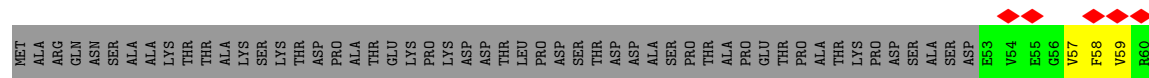
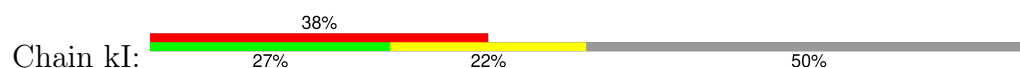




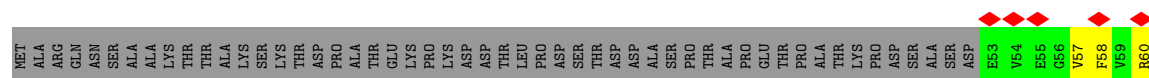
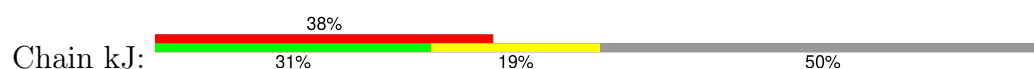
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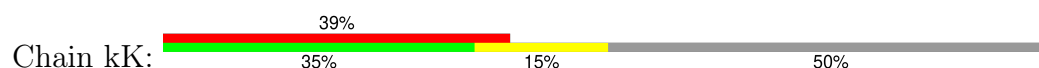
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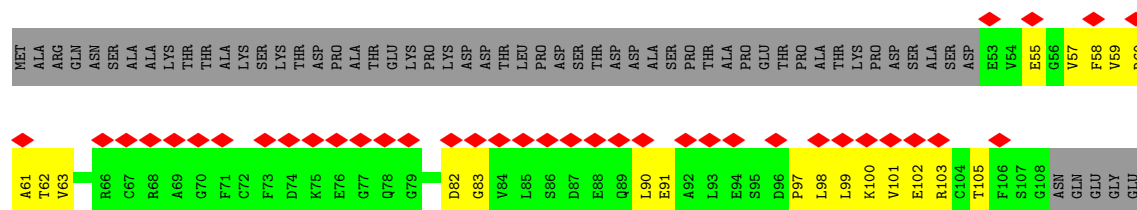
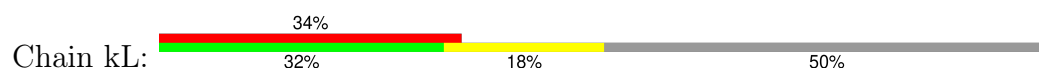
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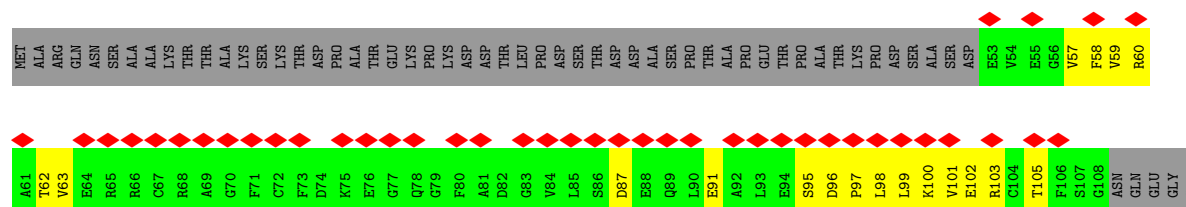
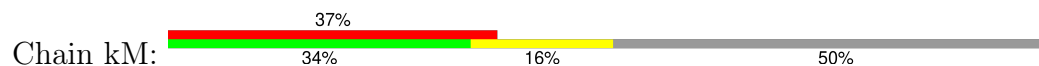
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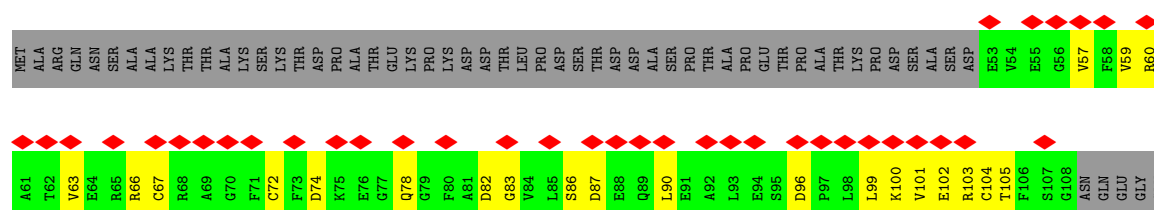
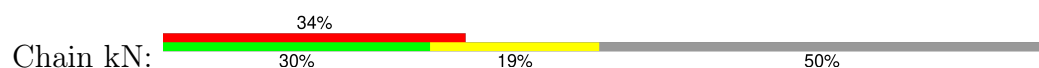
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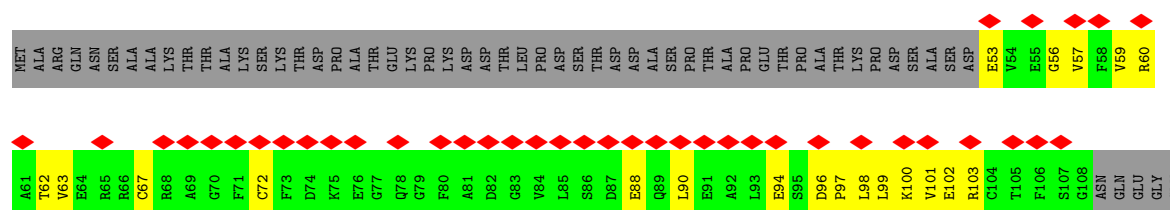
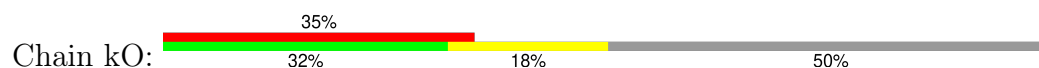
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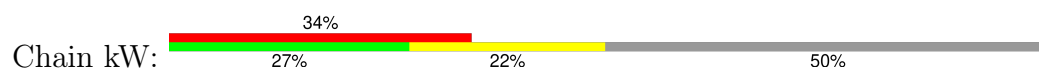
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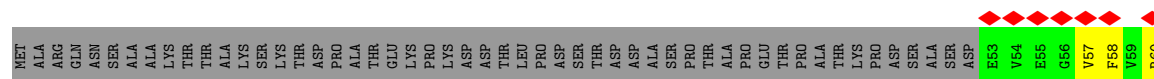
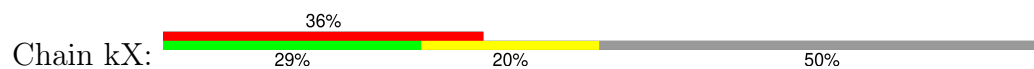


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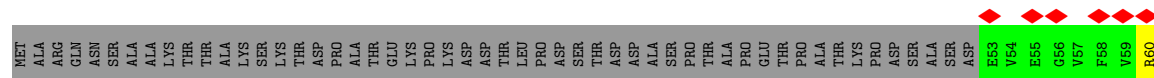
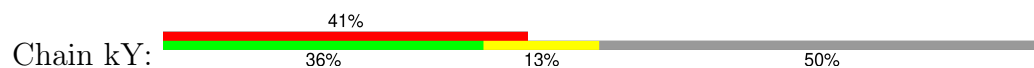




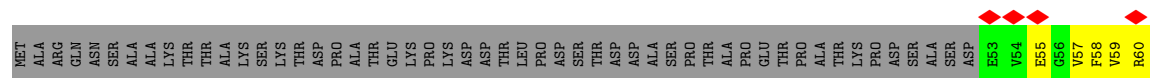
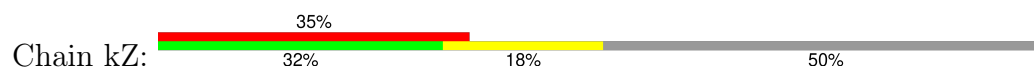
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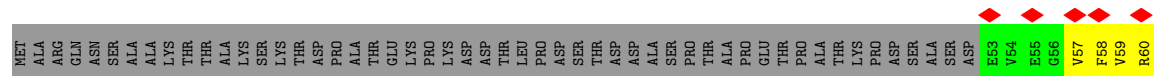
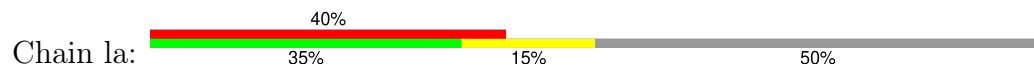
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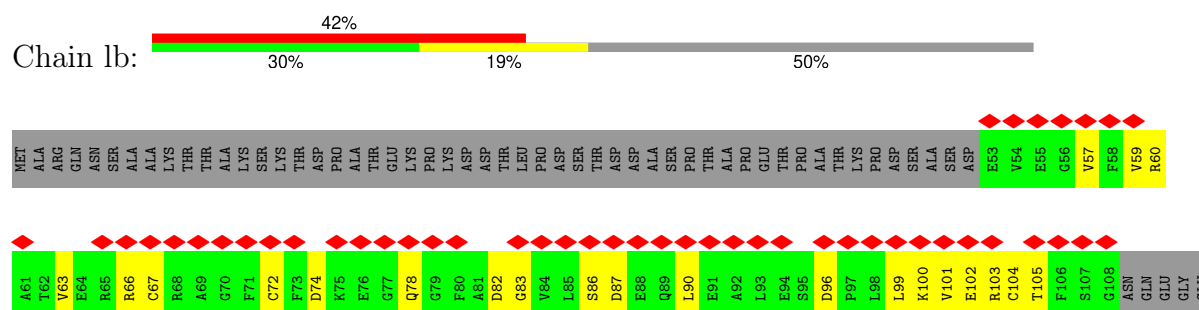
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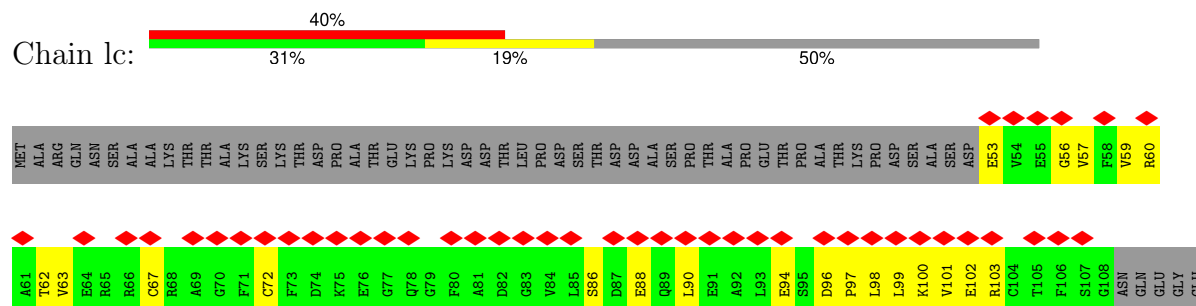
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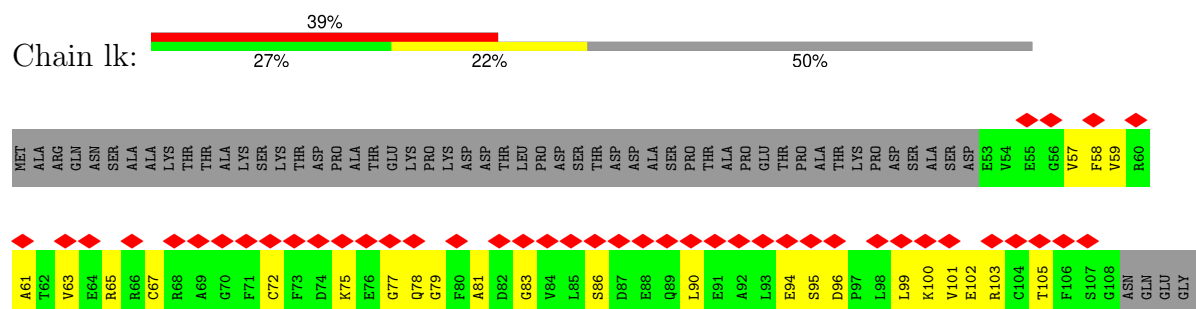
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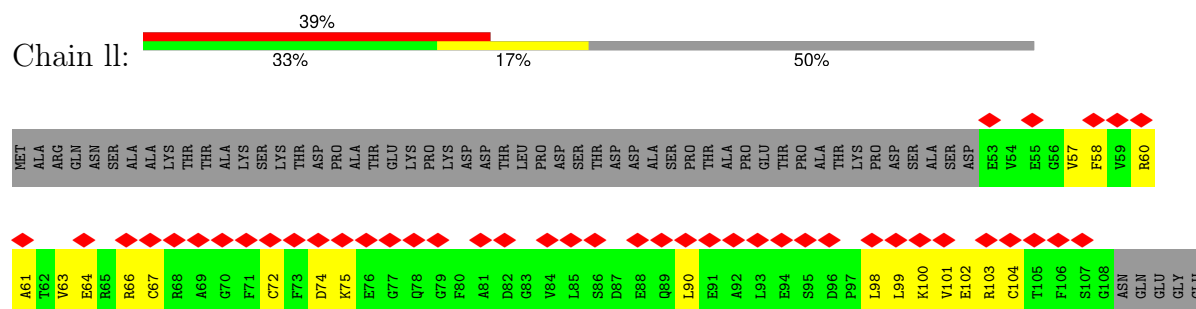
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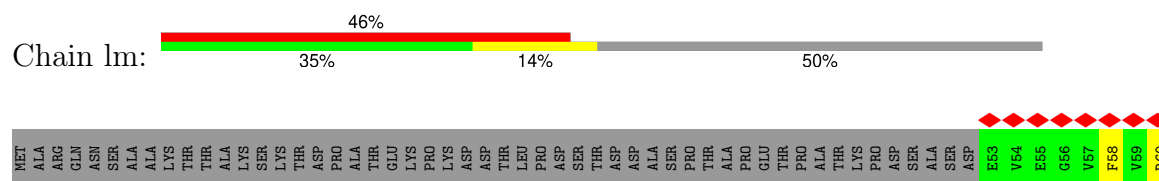
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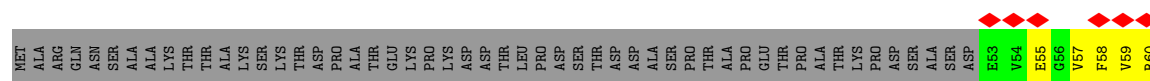
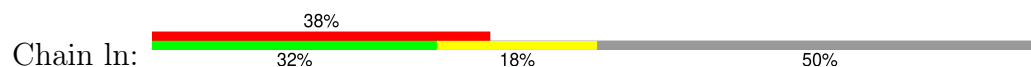


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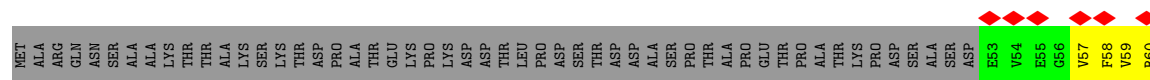
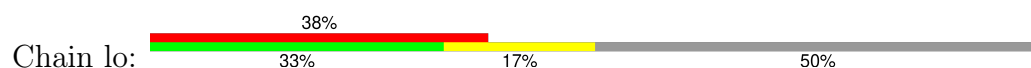




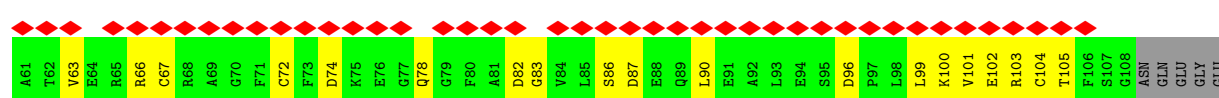
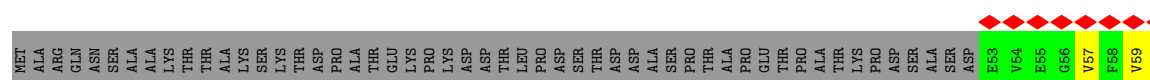
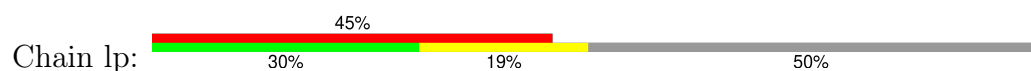
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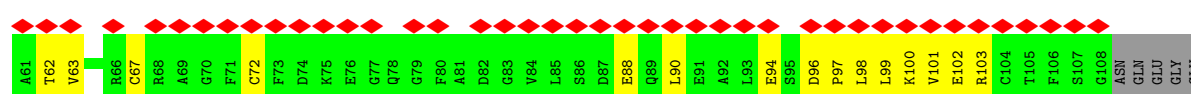
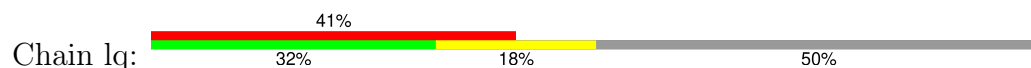
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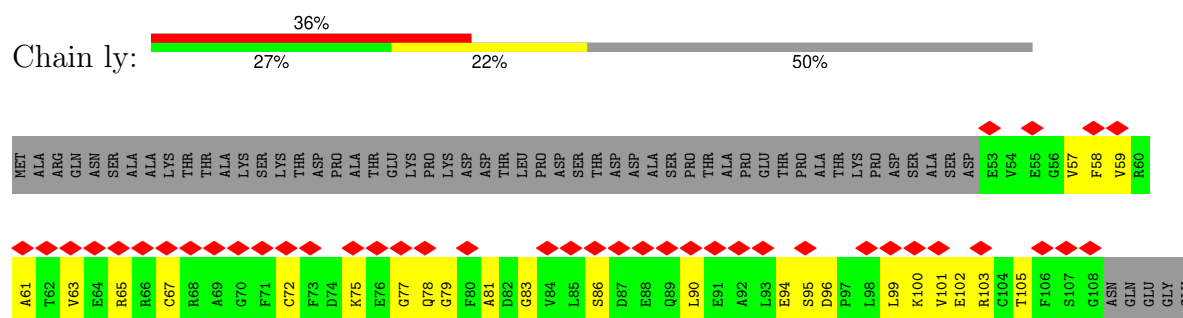
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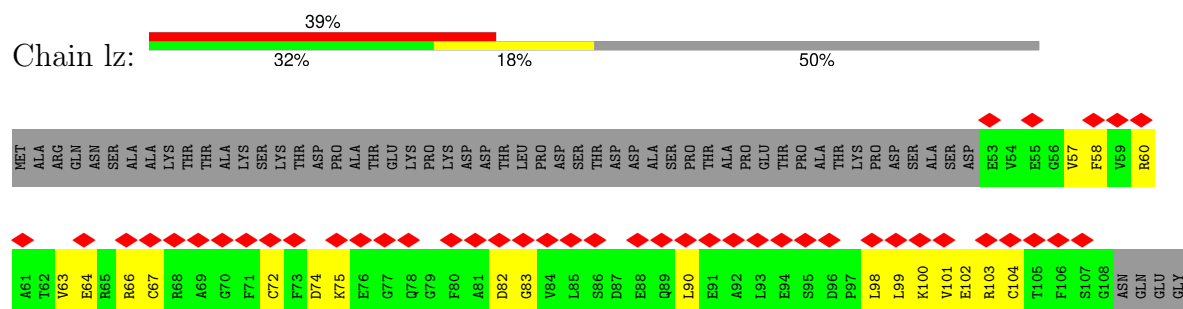
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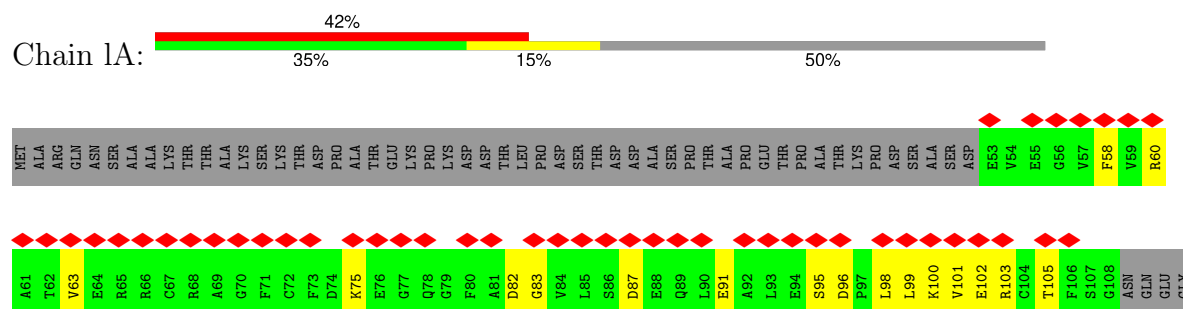
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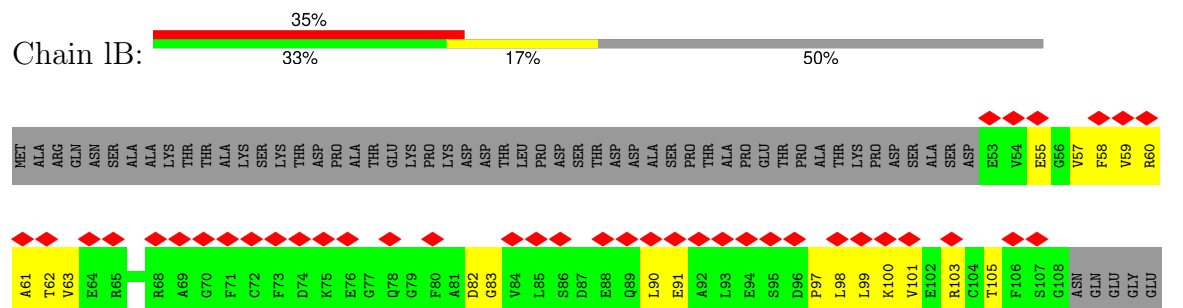
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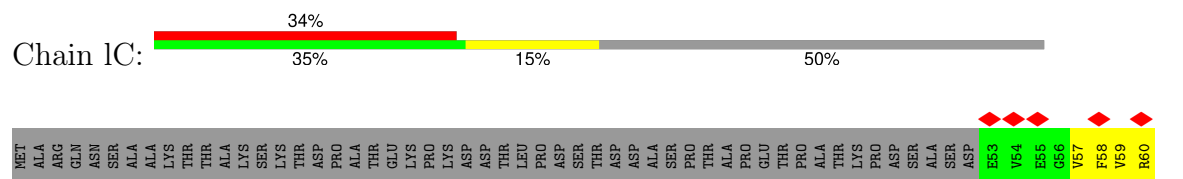
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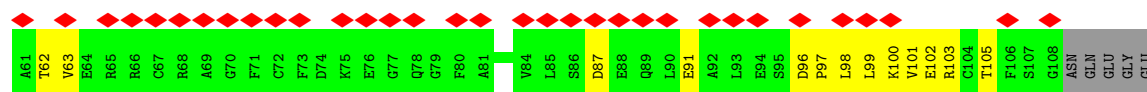


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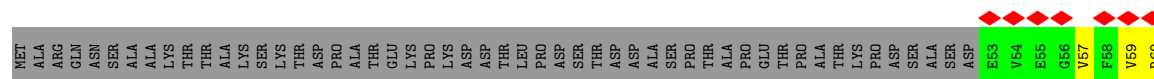
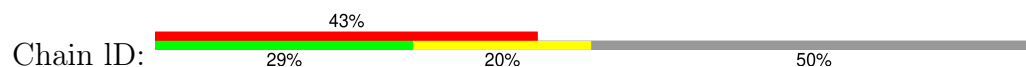


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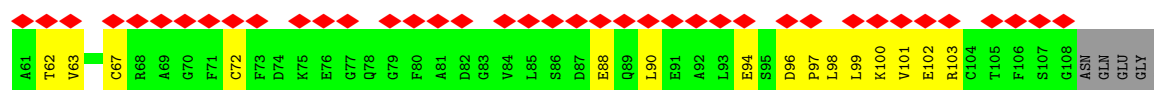
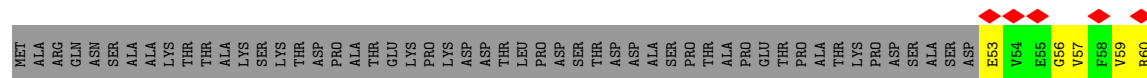
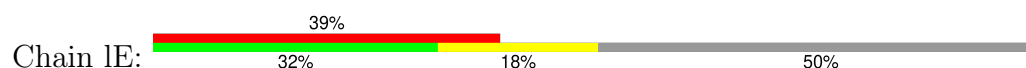




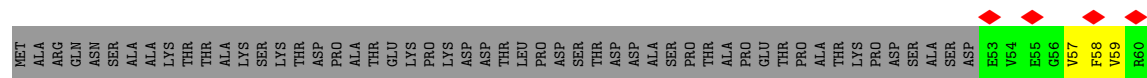
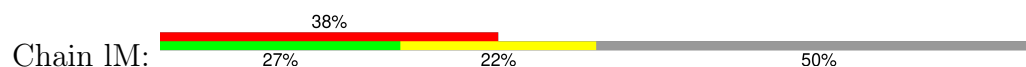
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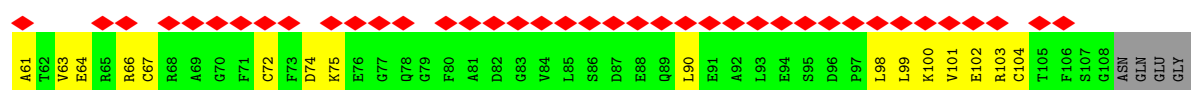
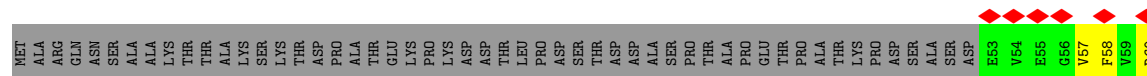
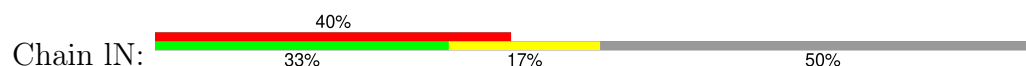
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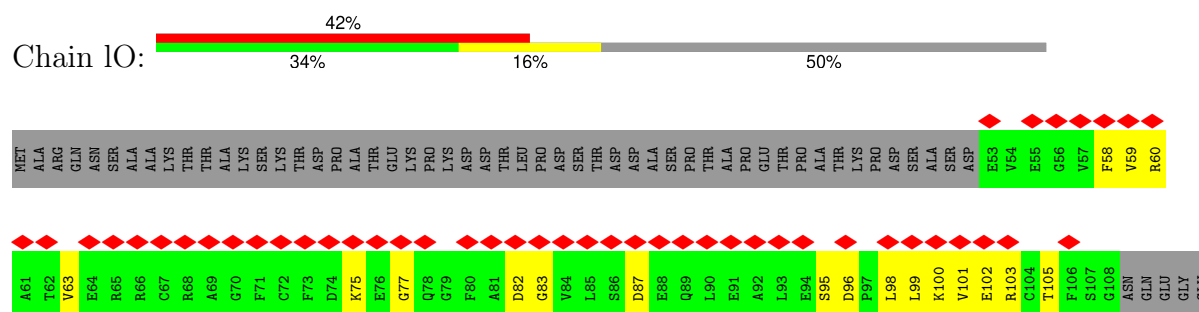
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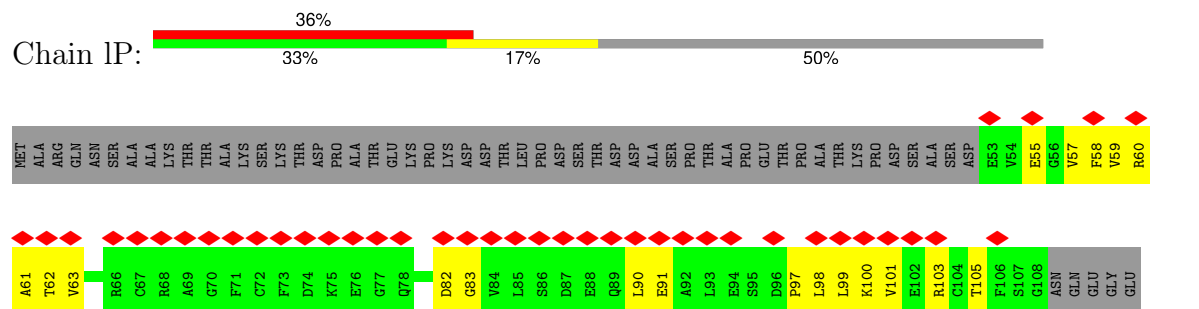
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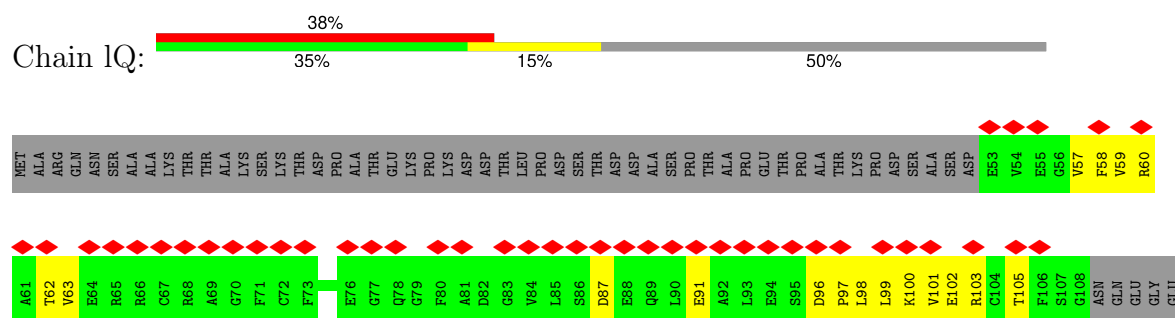
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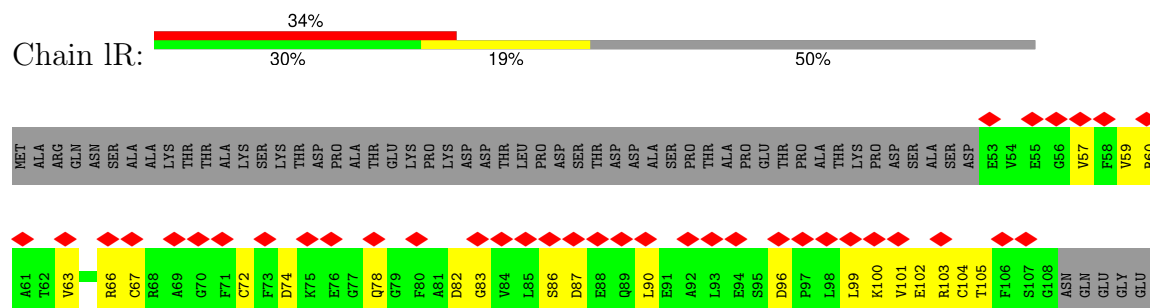
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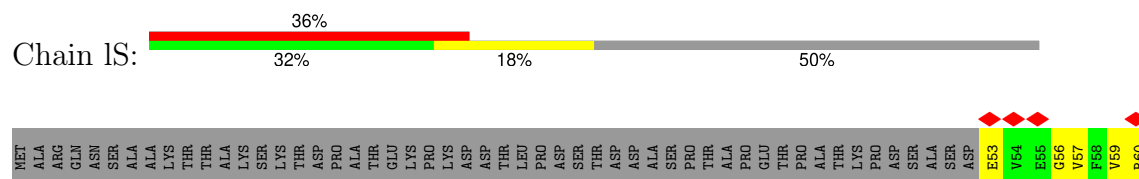
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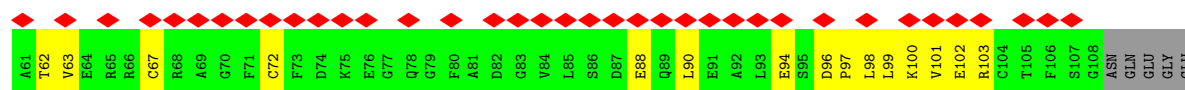


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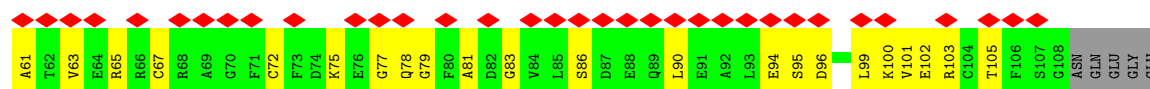
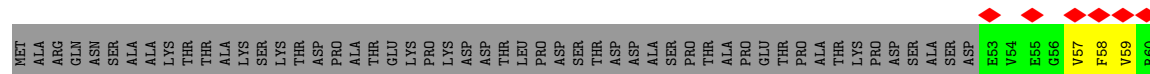
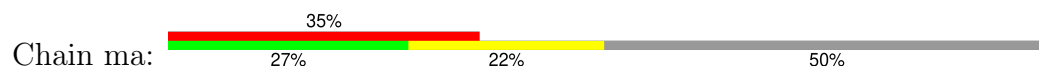


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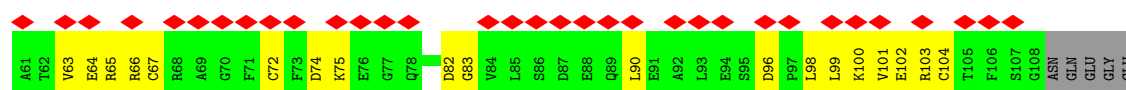
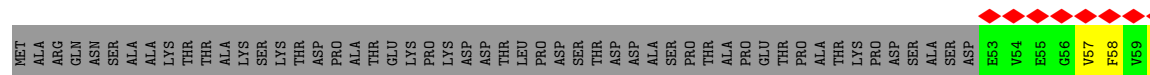
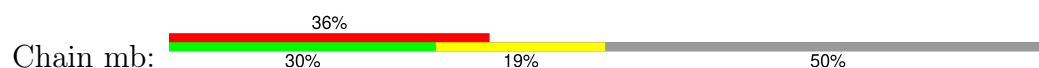




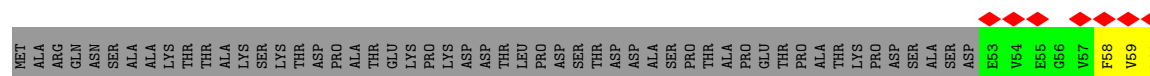
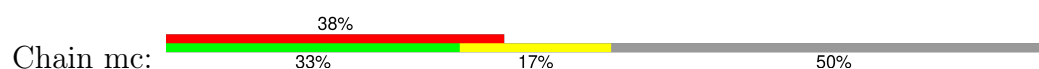
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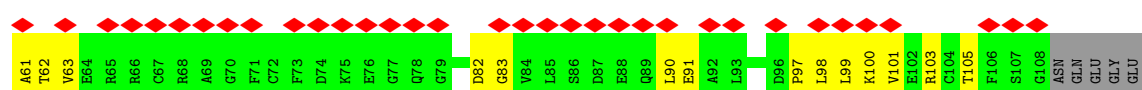
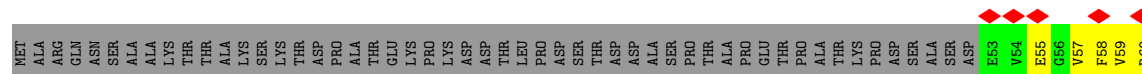
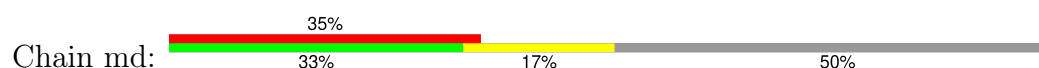
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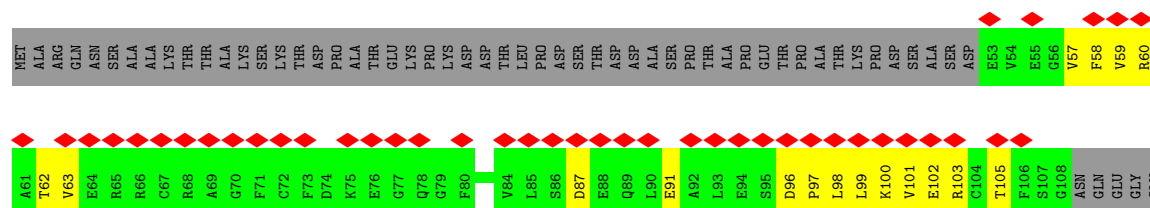
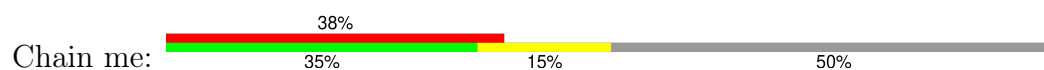
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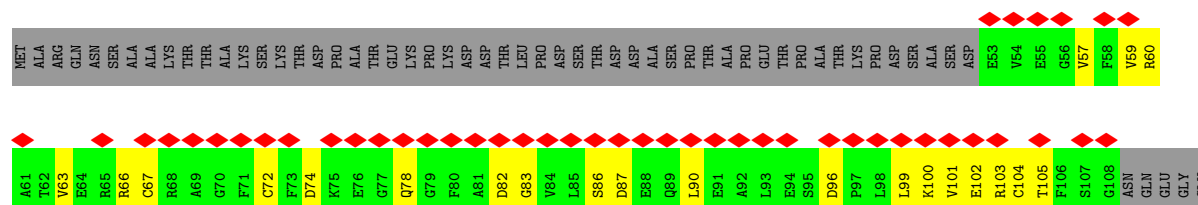
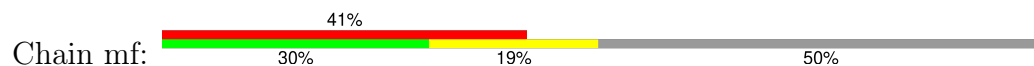
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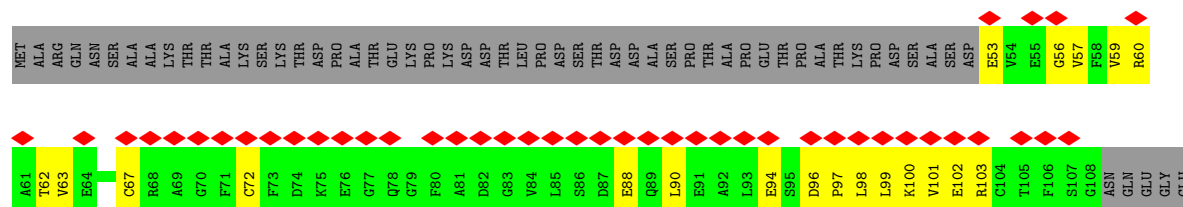
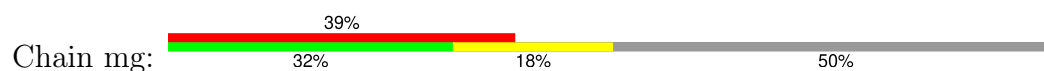
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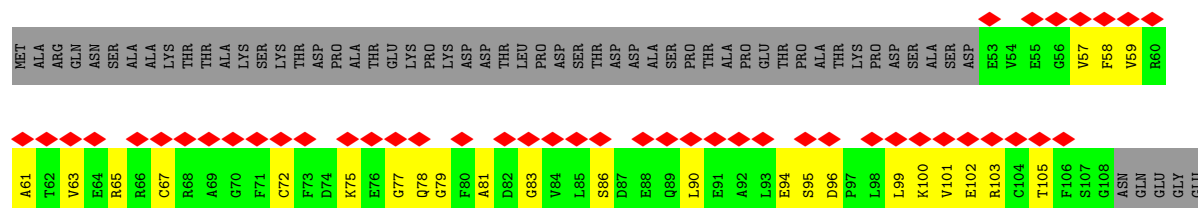
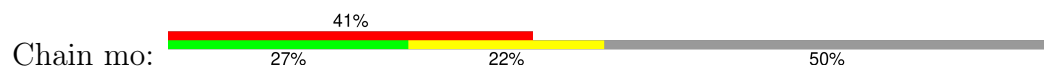
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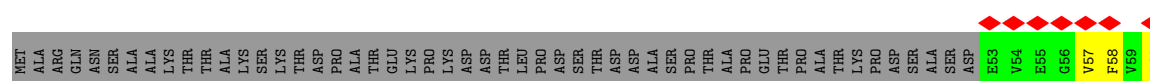
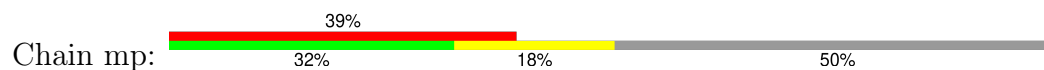
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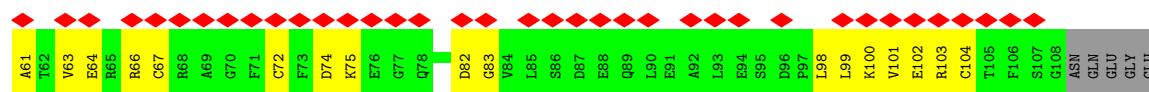


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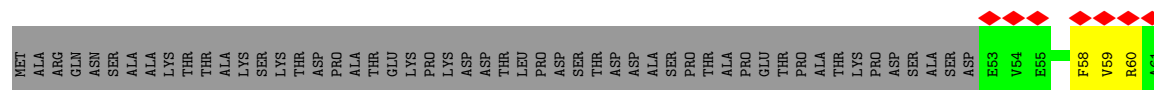
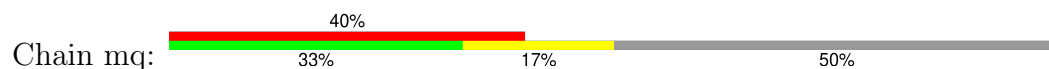


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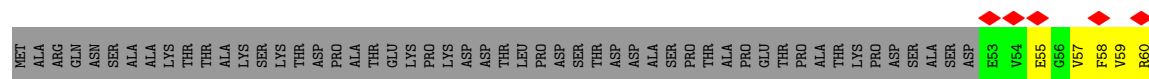
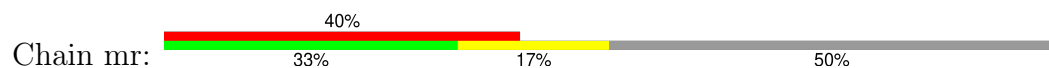




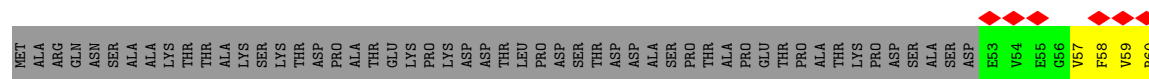
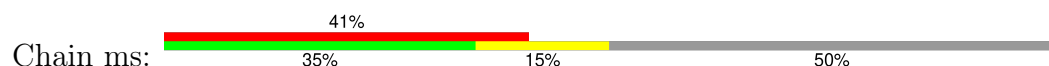
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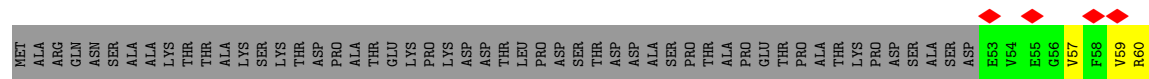
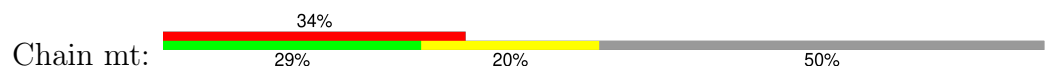
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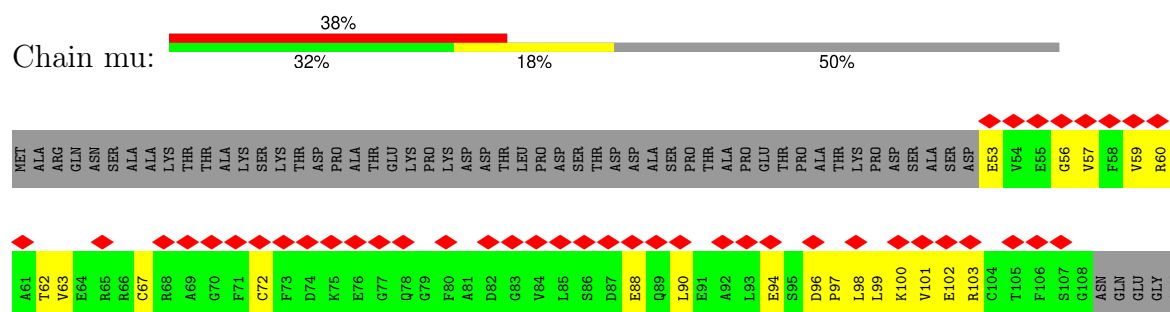
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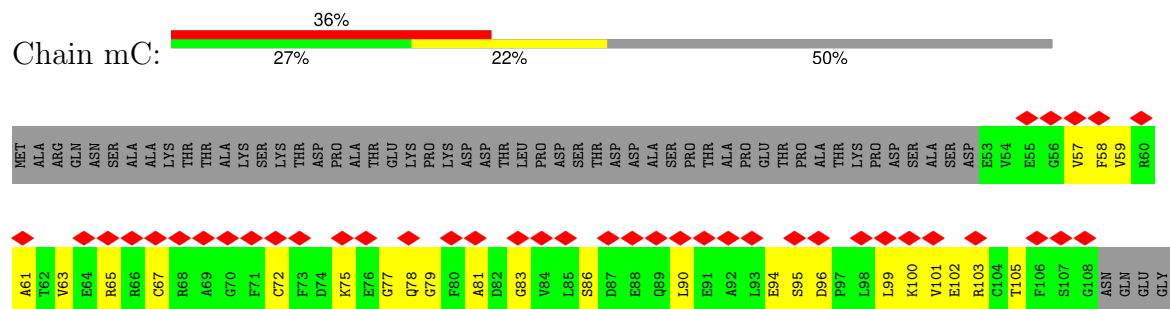
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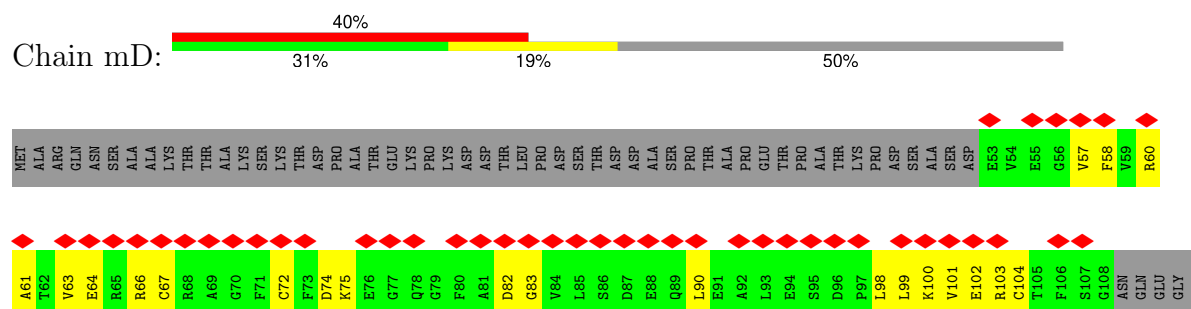
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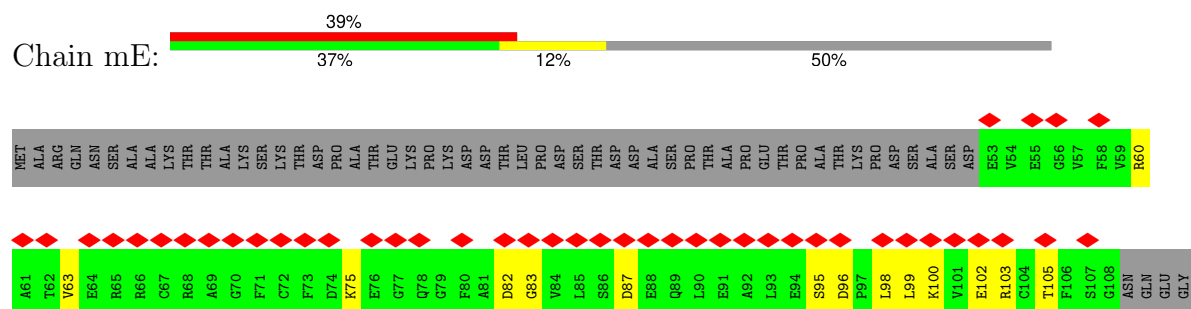
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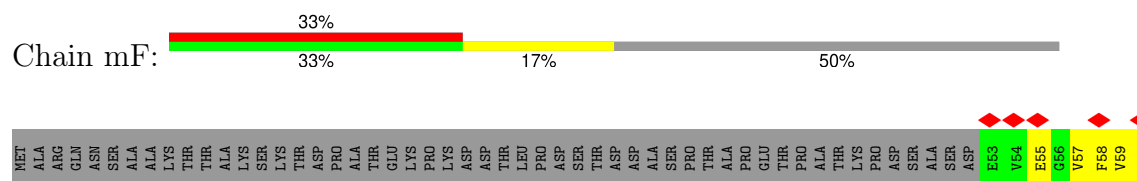
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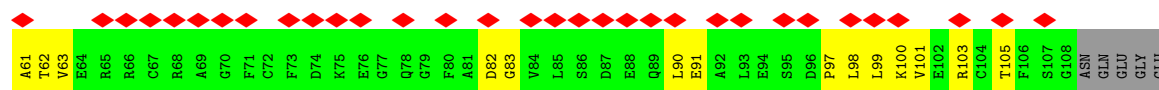


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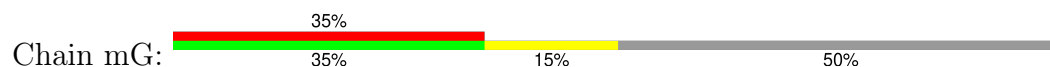


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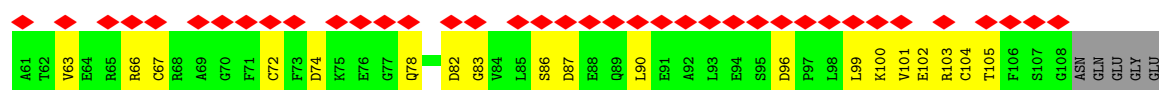
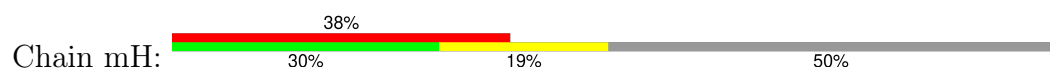




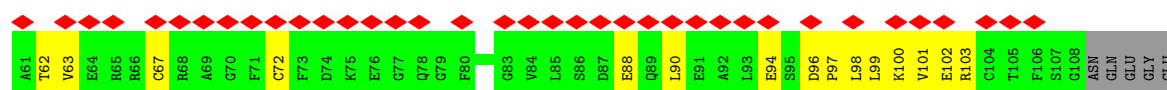
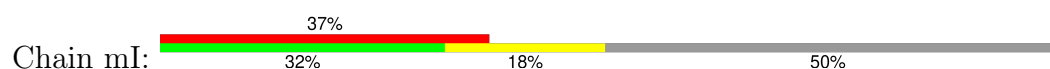
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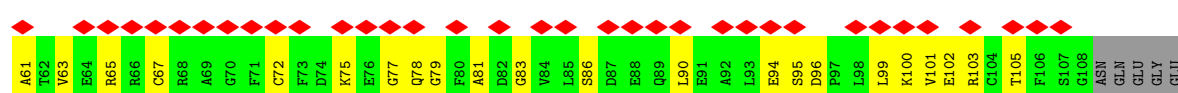
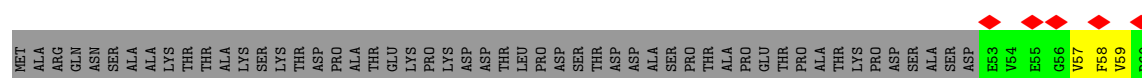
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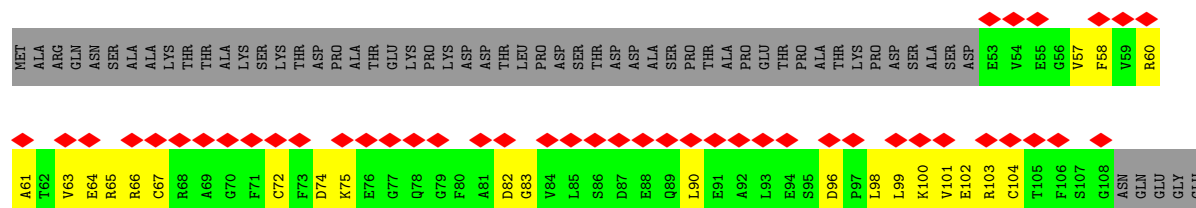
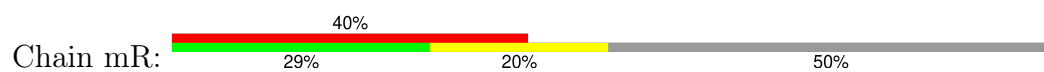
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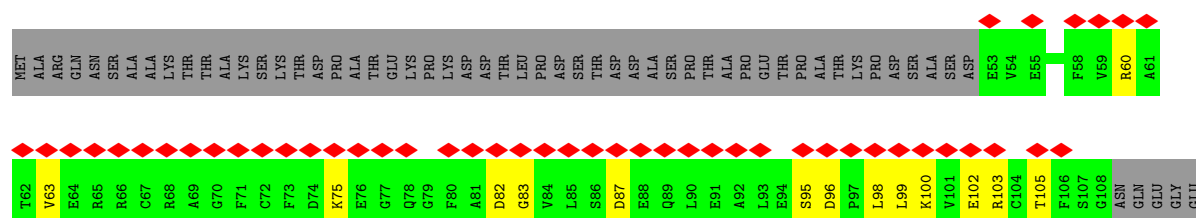
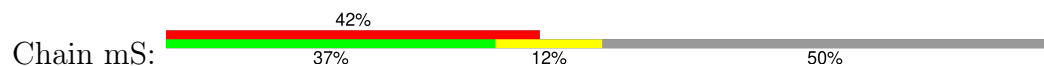
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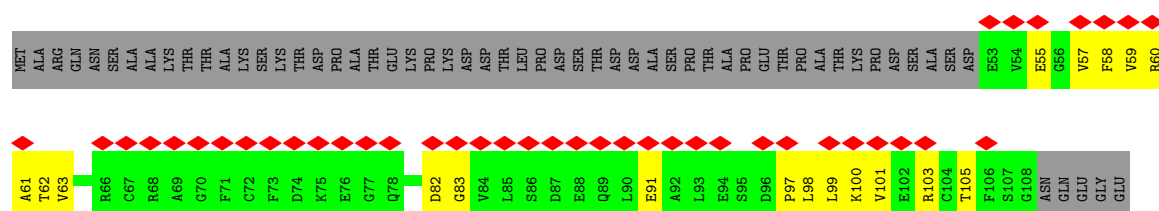
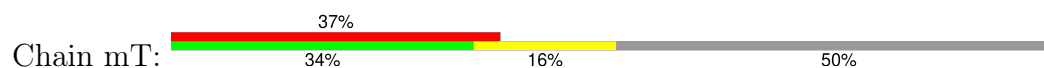
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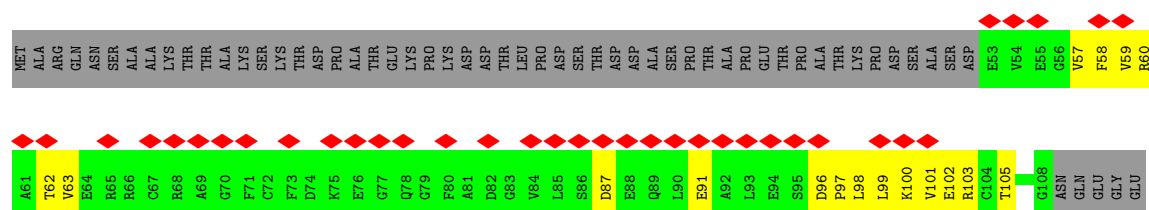
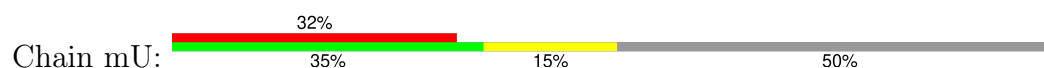
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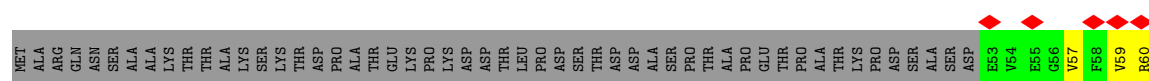
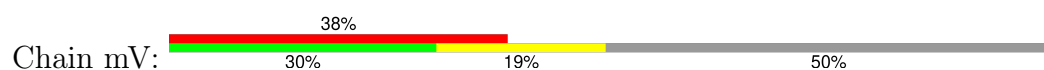
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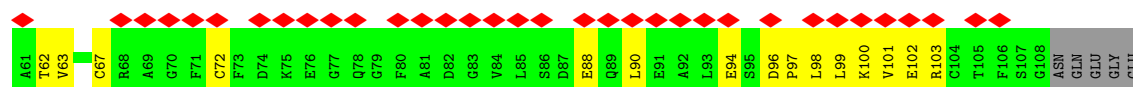
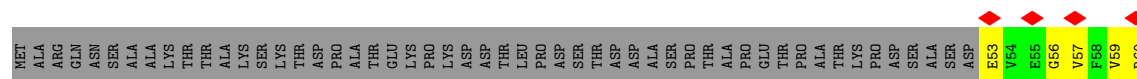
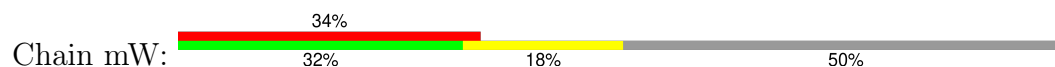


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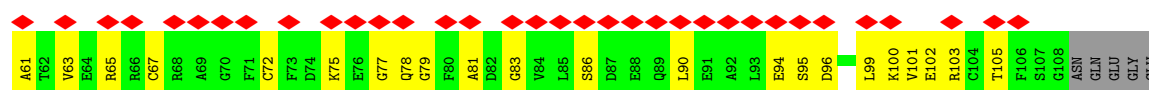
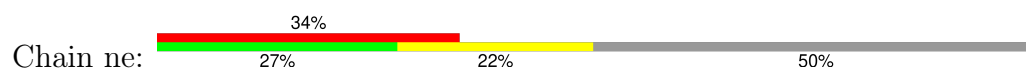




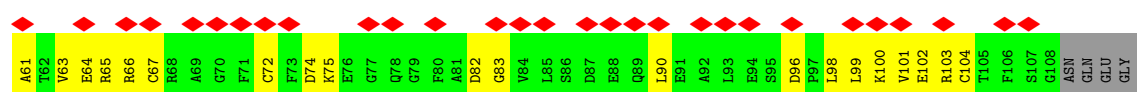
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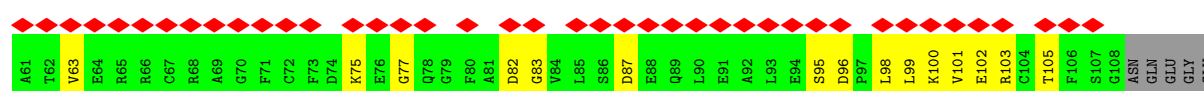
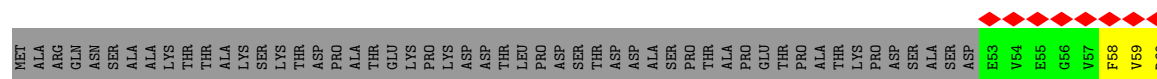
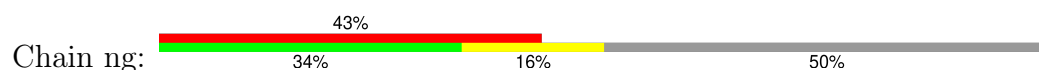
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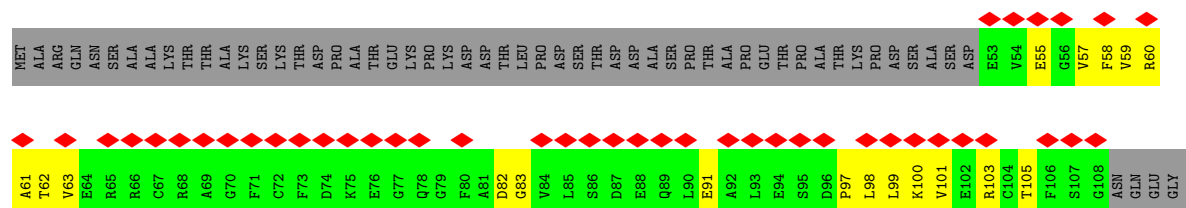
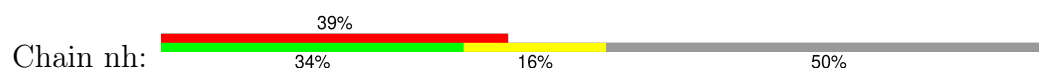
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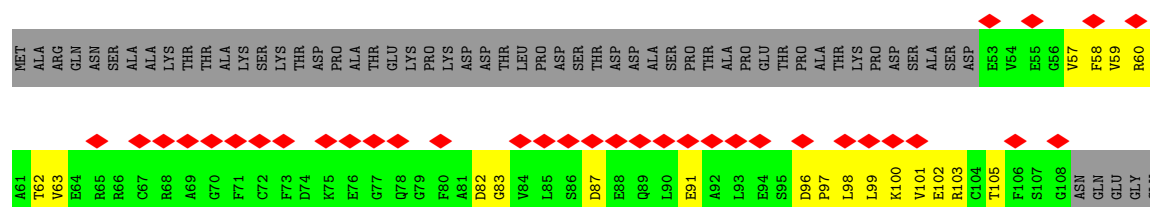
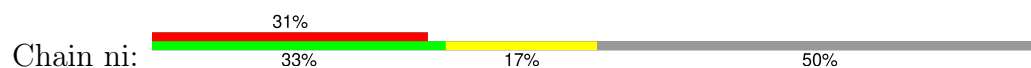
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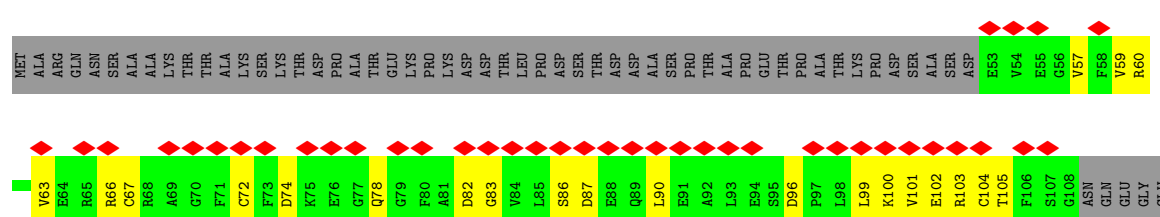
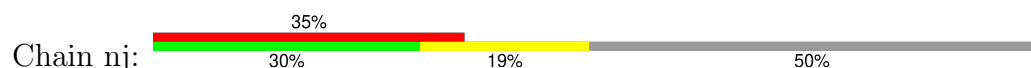
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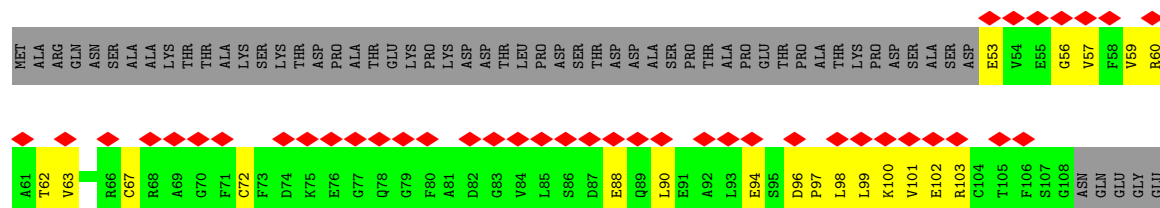
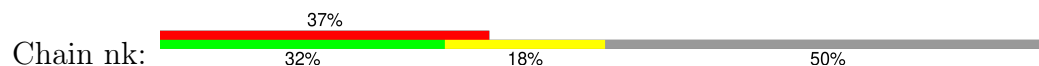
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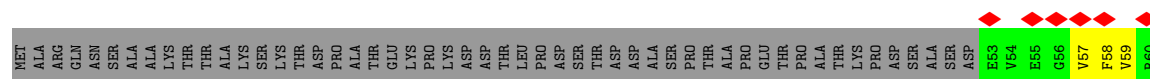
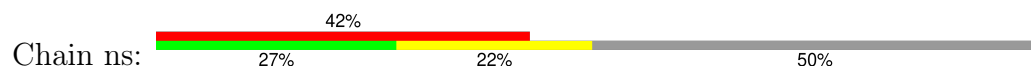
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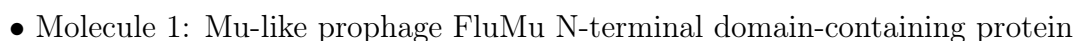


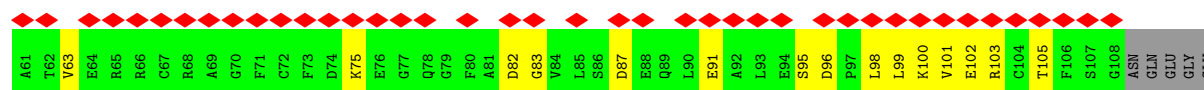
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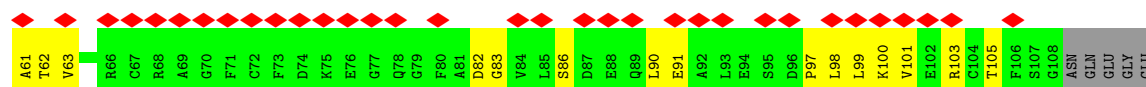
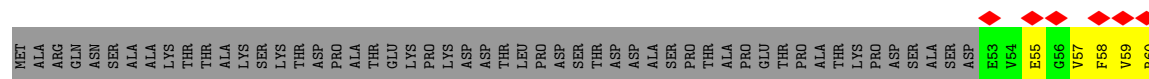
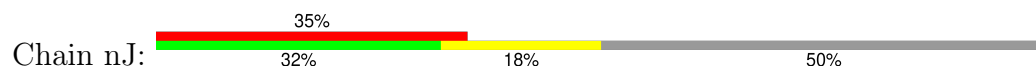
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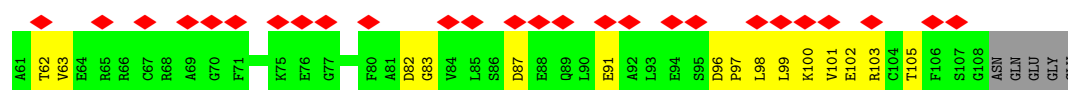
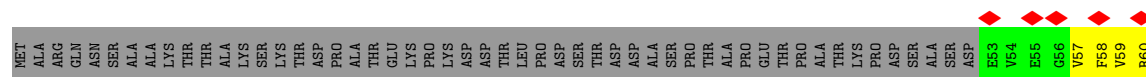
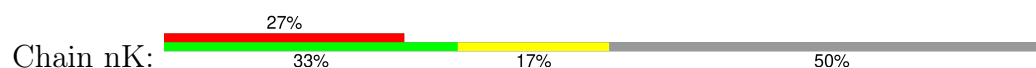




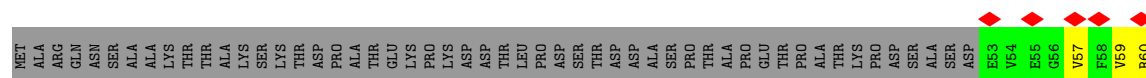
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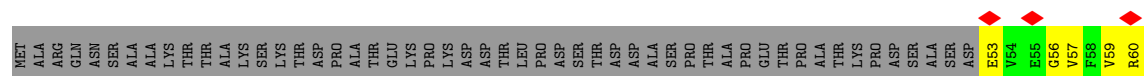
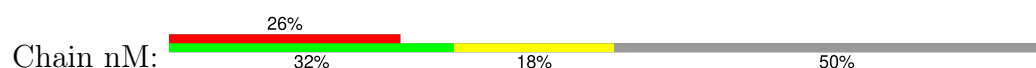
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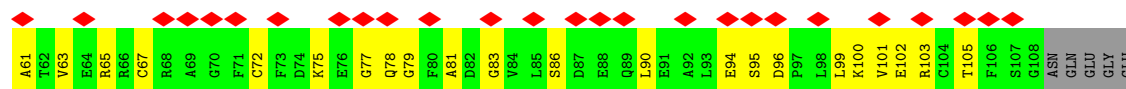
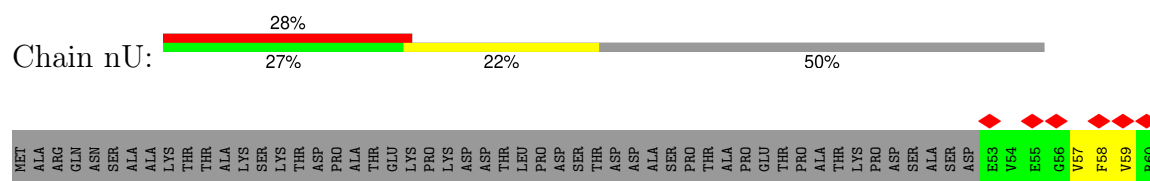
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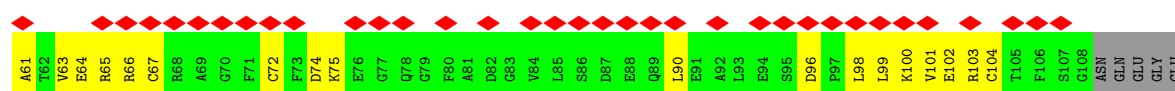
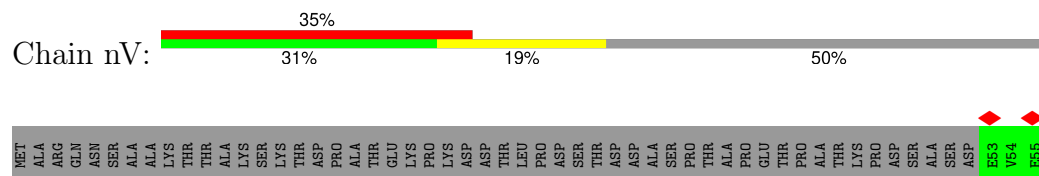
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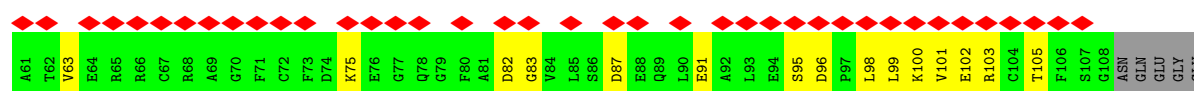
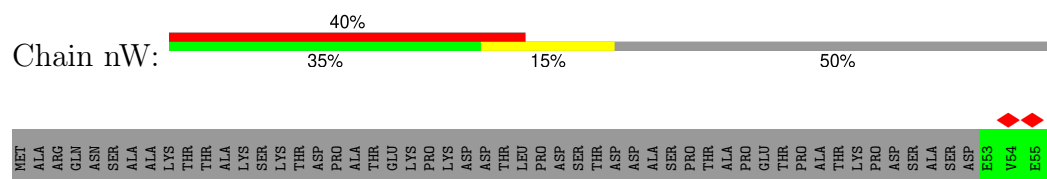
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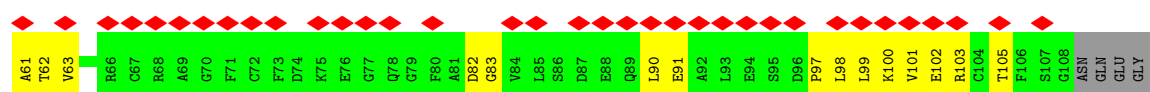
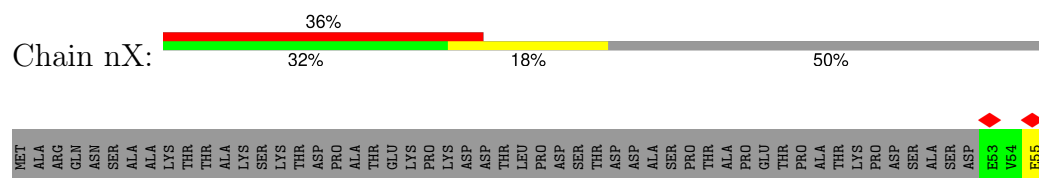
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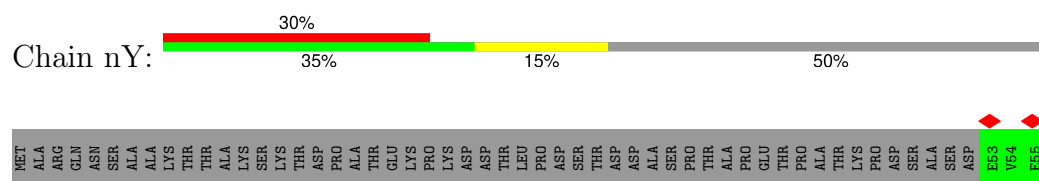
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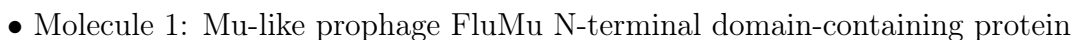


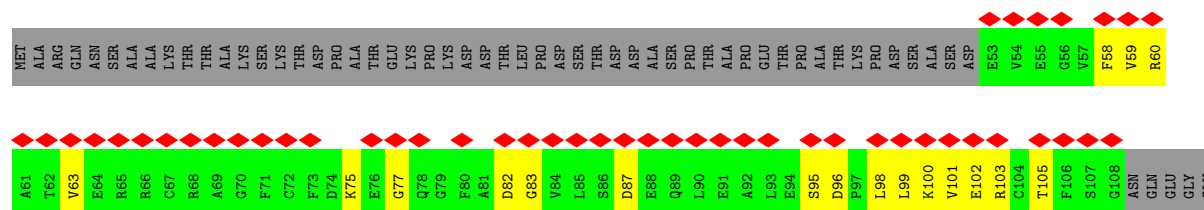
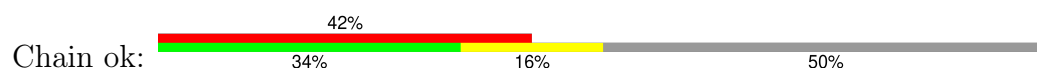
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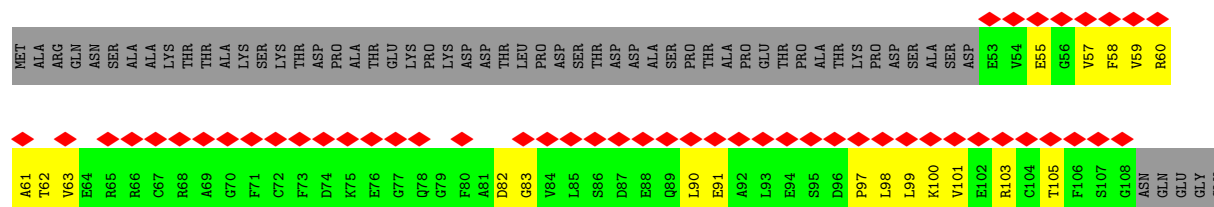
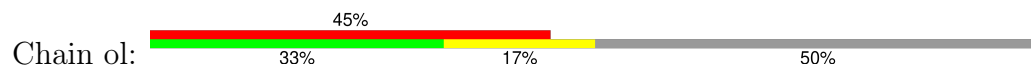
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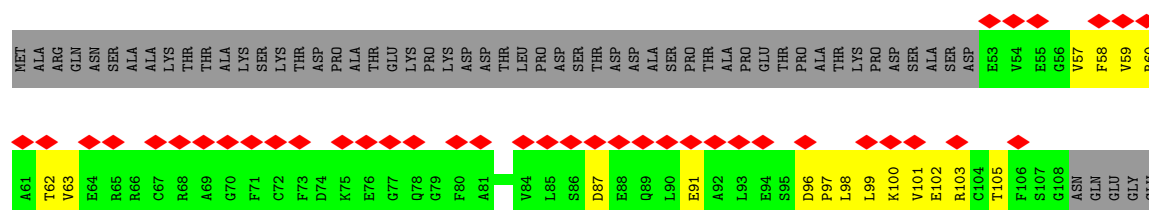
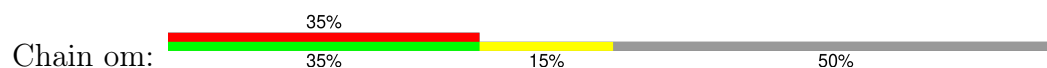




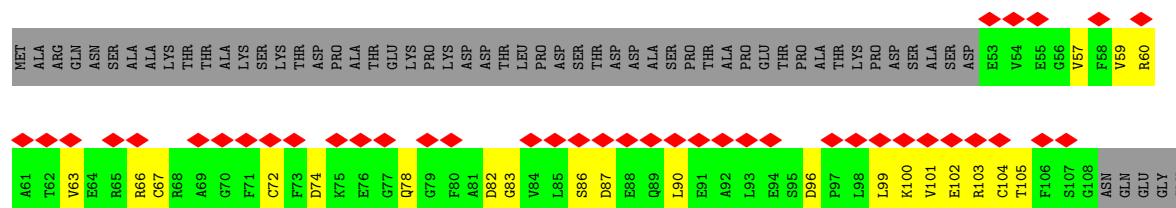
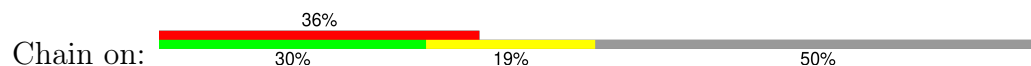
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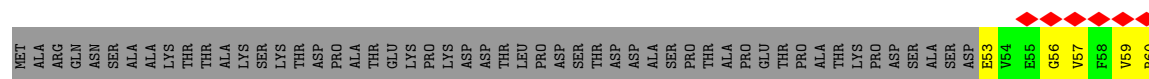
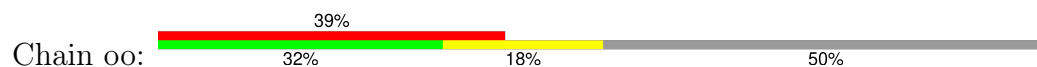
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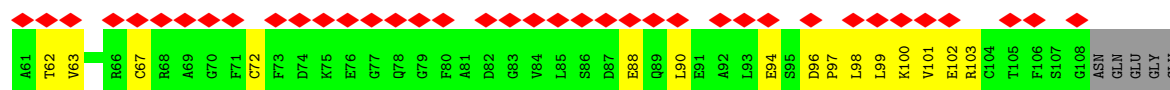


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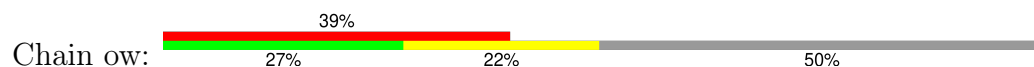


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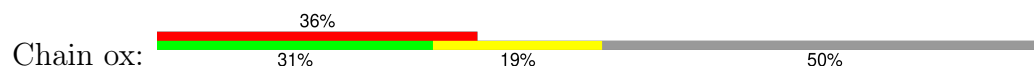




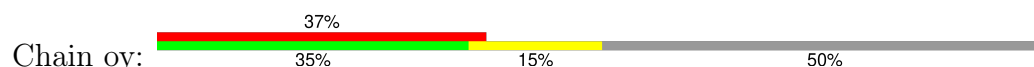
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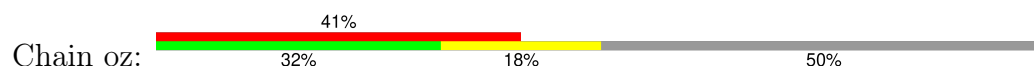
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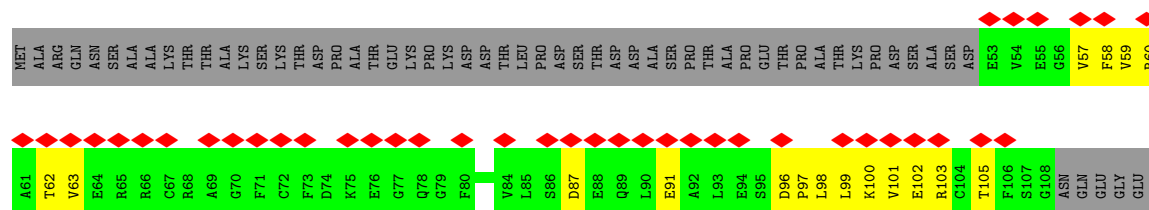
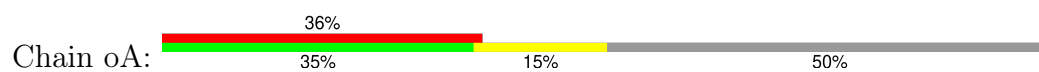
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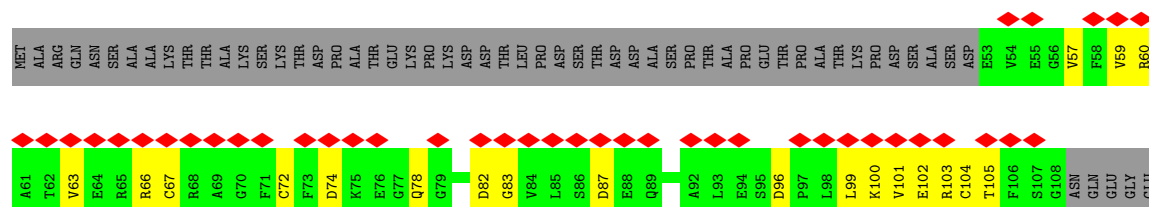
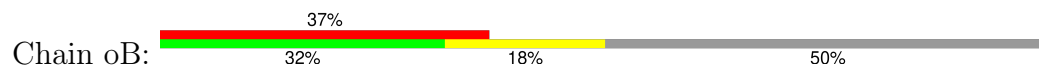
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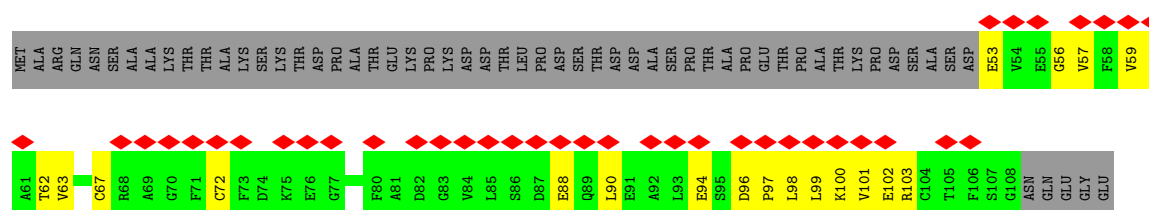
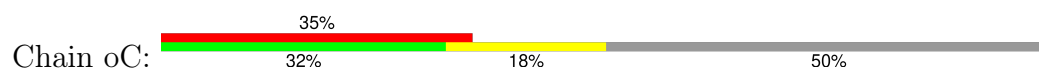
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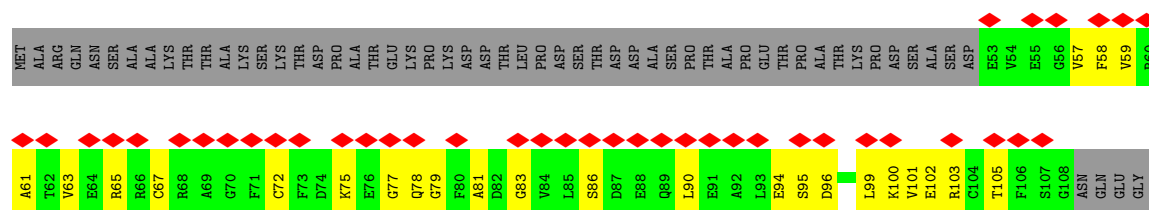
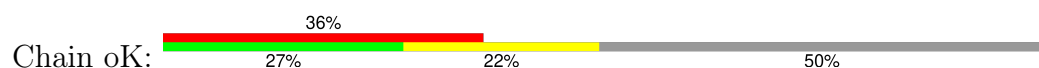
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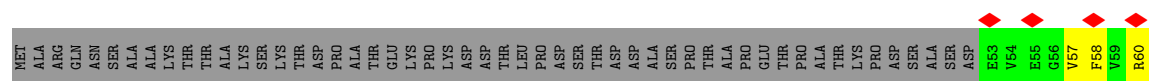
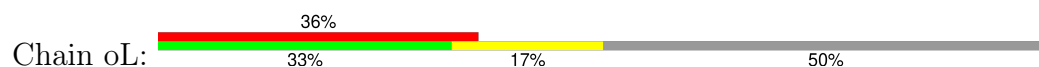
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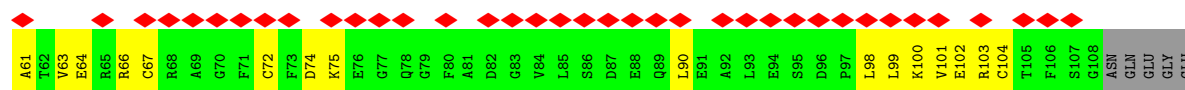


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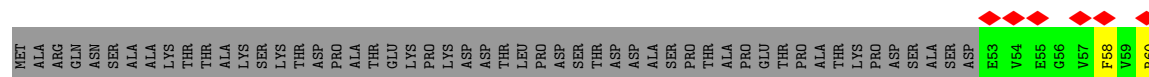
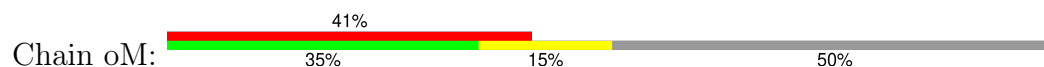


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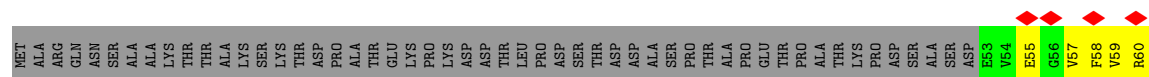
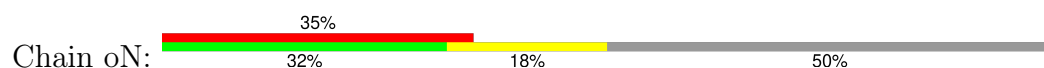




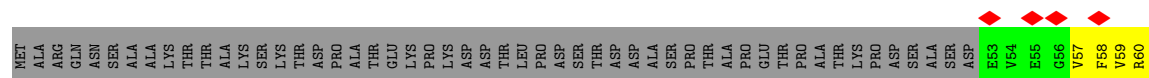
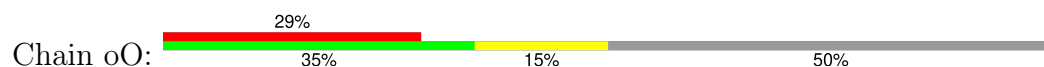
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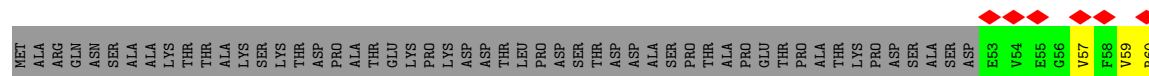
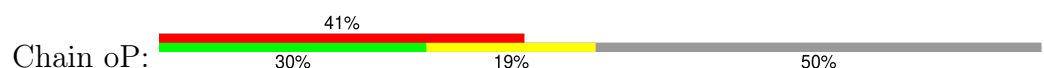
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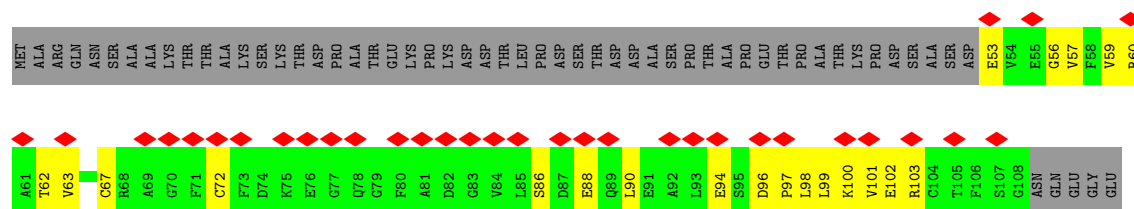
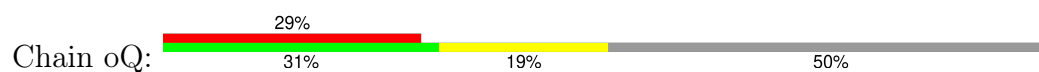
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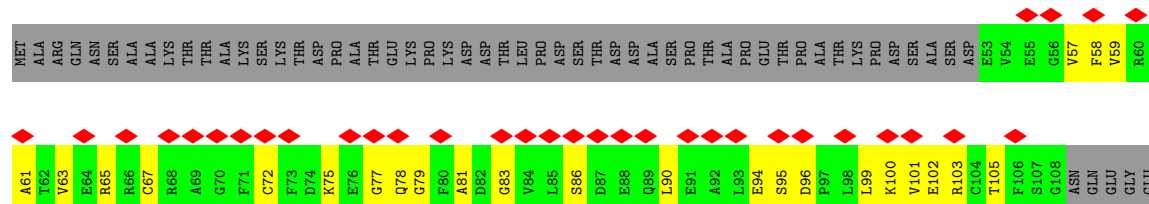
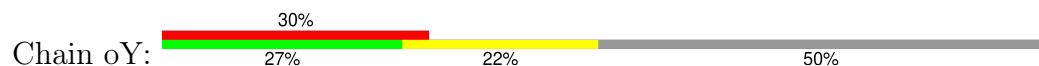
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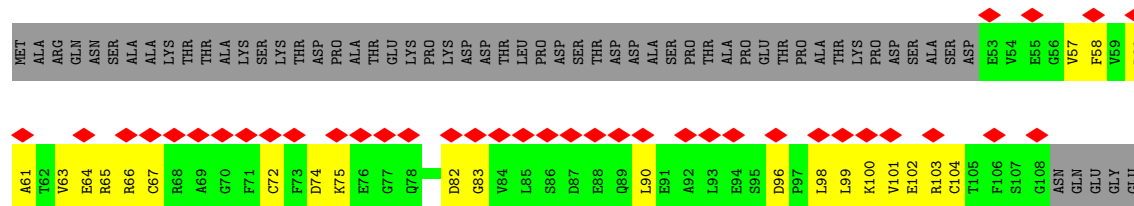
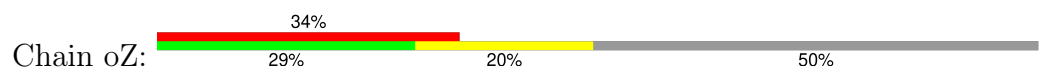
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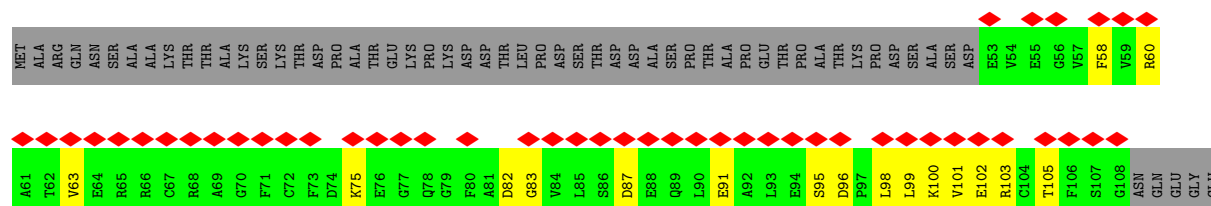
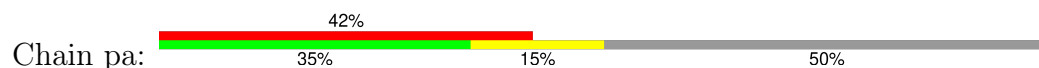
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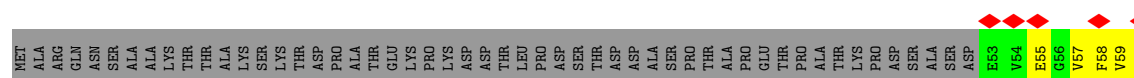
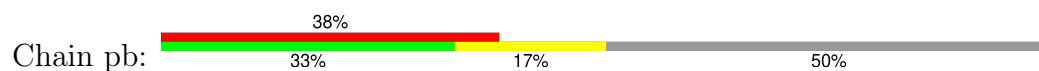
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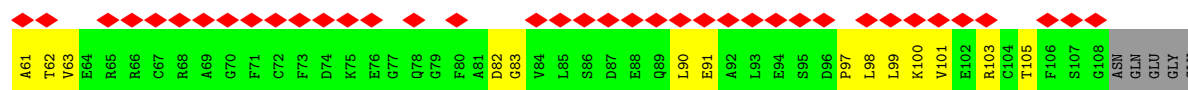


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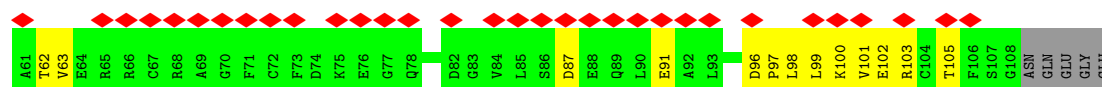
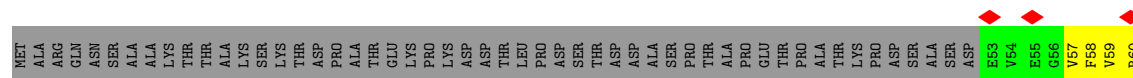
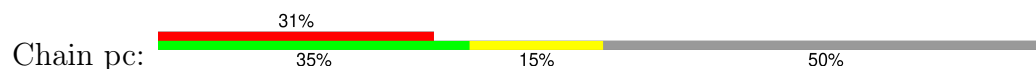


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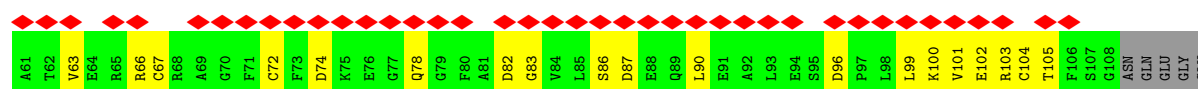
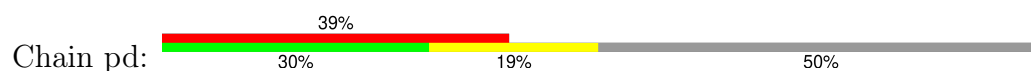




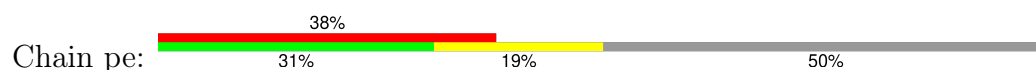
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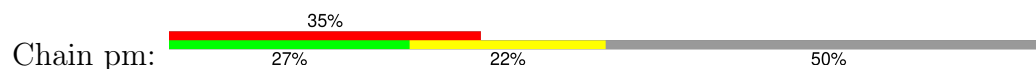
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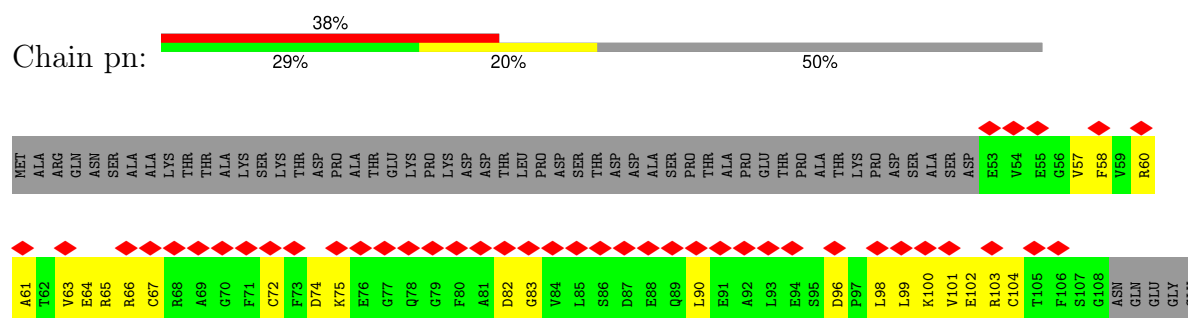
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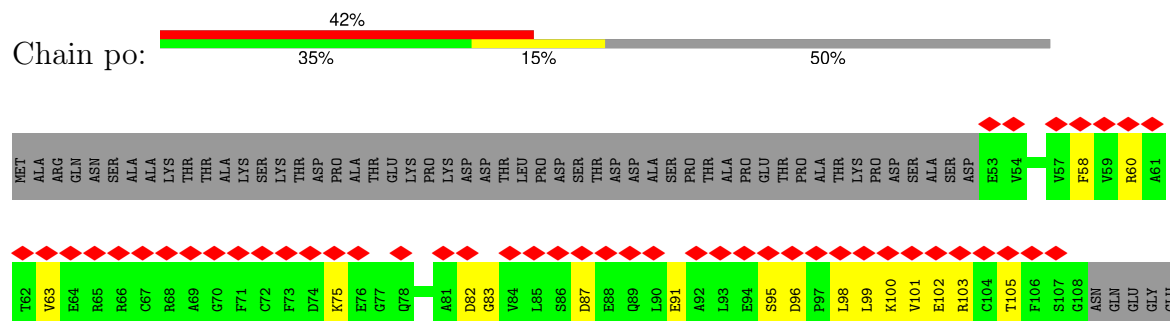
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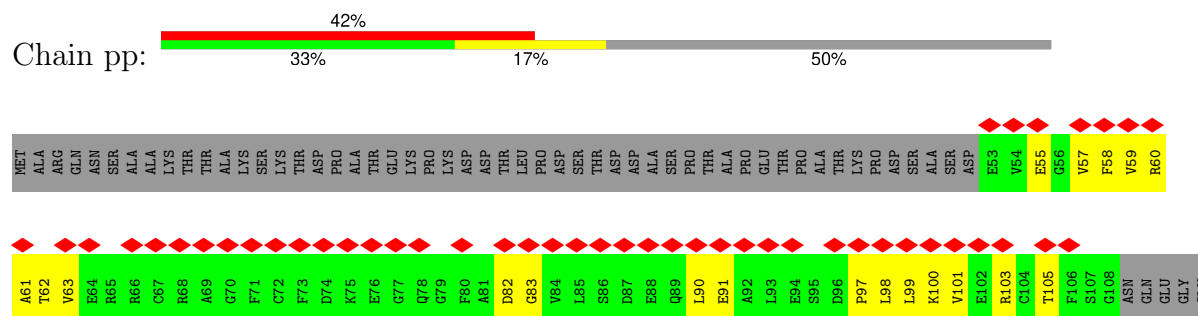
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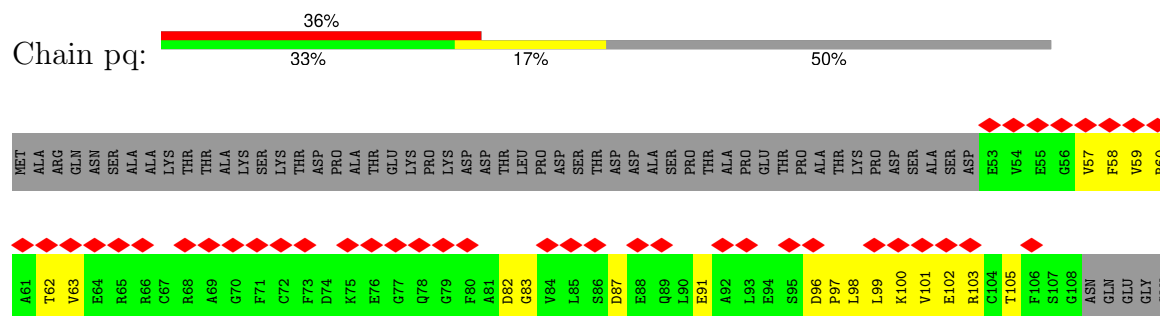
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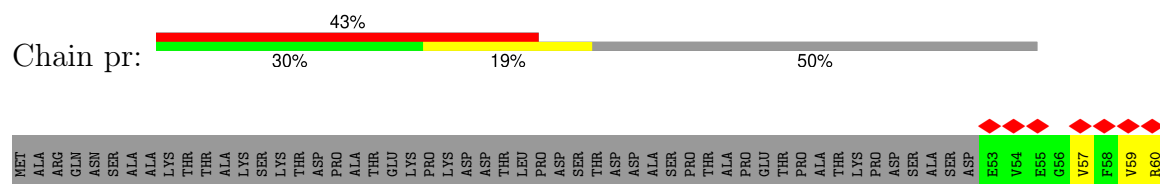
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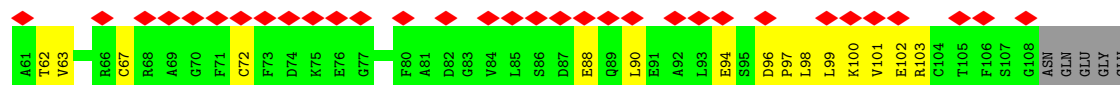
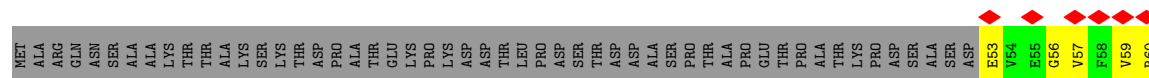
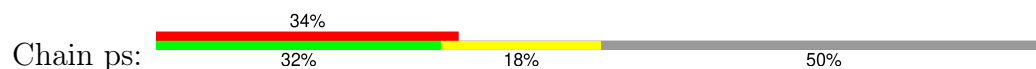


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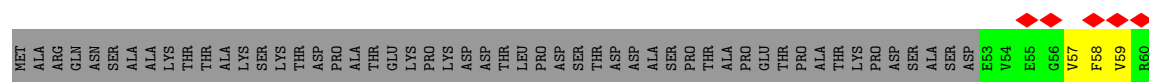
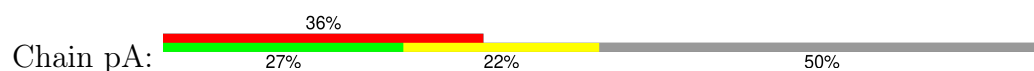




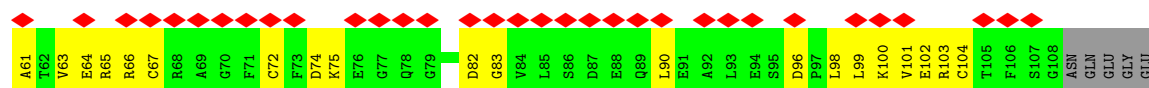
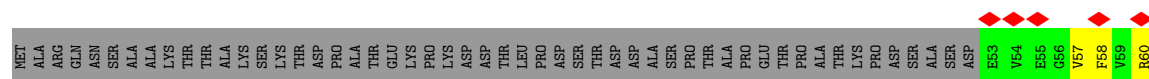
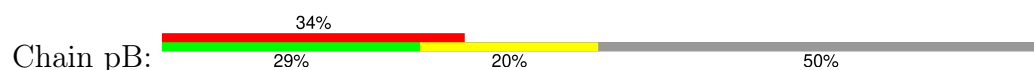
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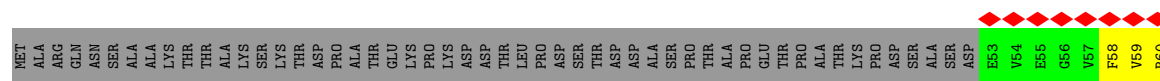
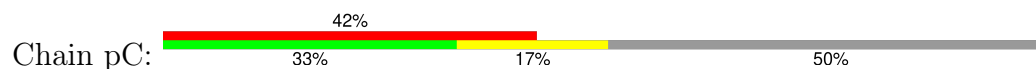
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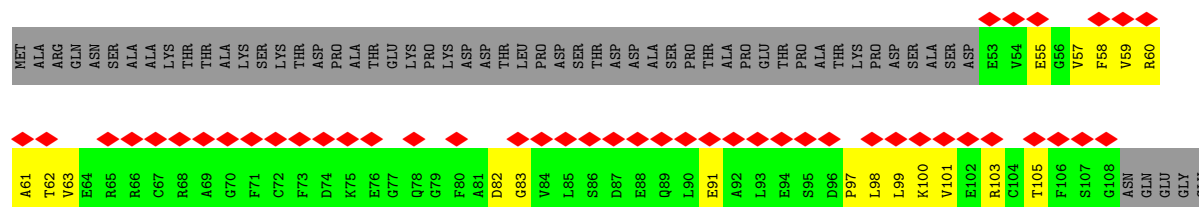
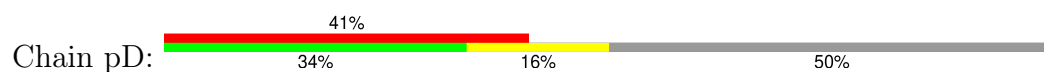
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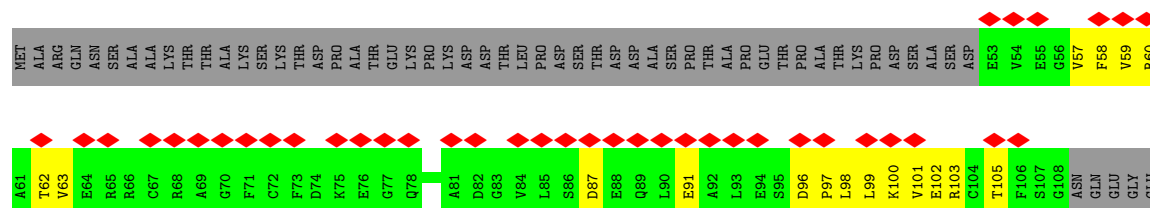
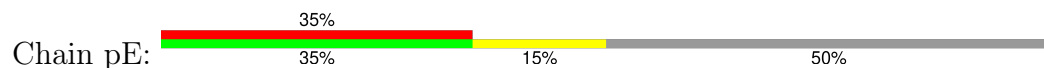
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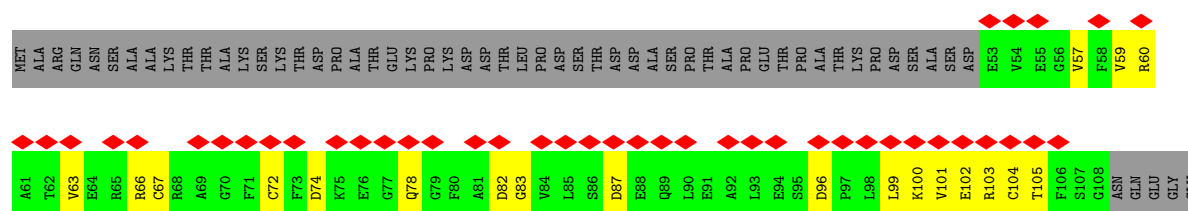
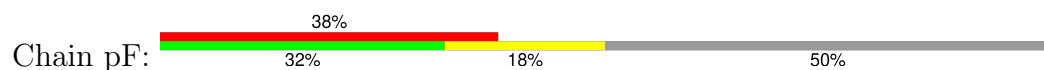
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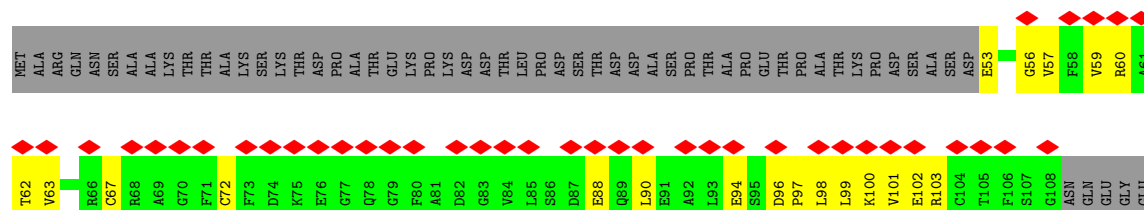
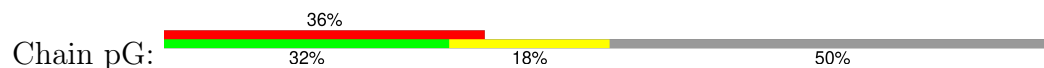
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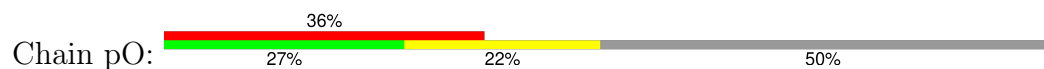
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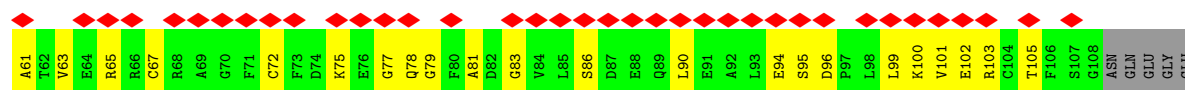


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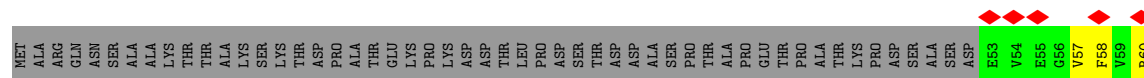
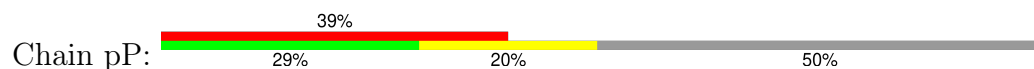


- Molecule 1: Mu-like prophage FluMu N-terminal domain-containing protein

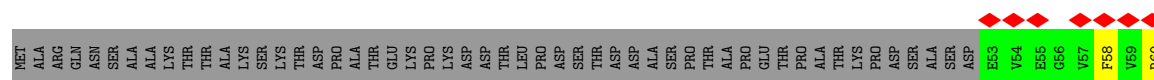
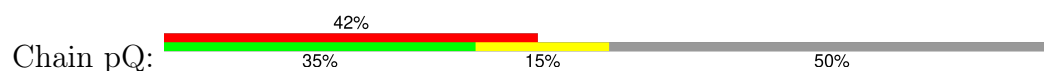




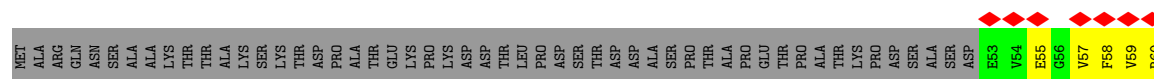
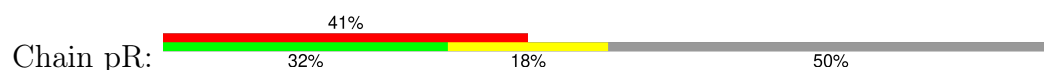
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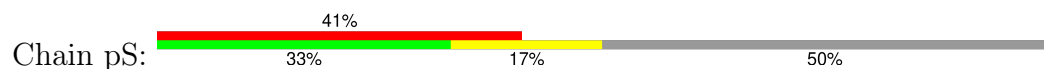
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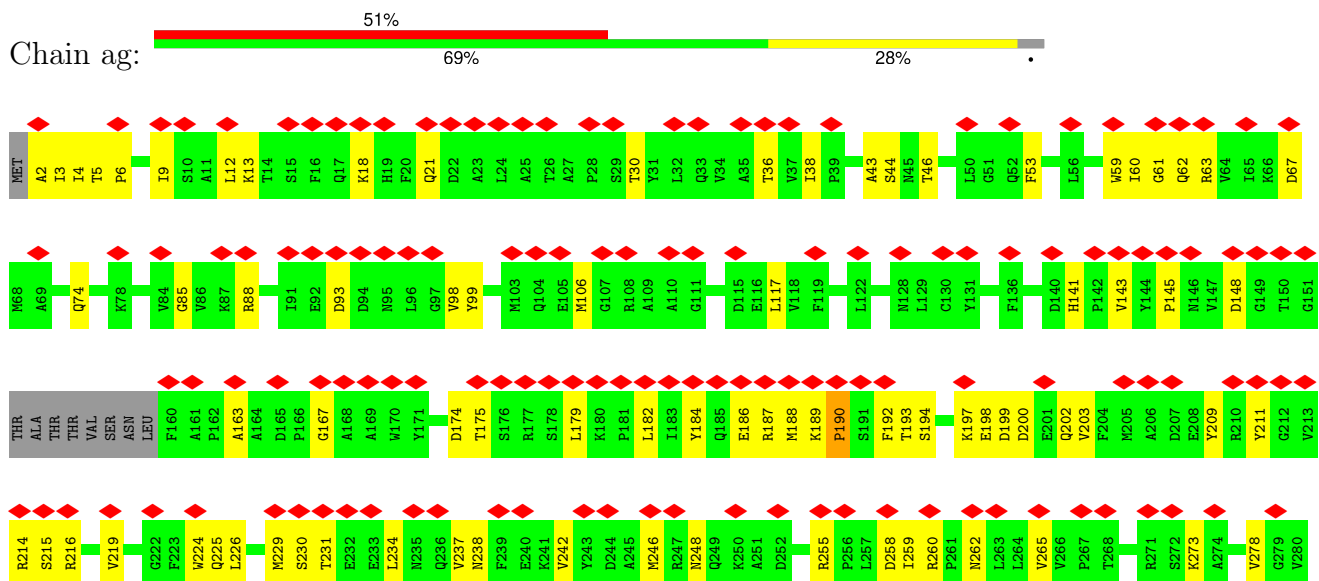
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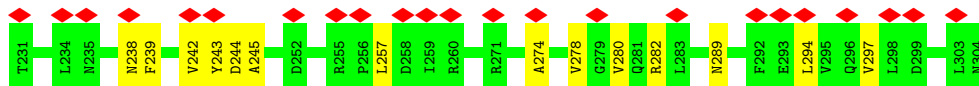
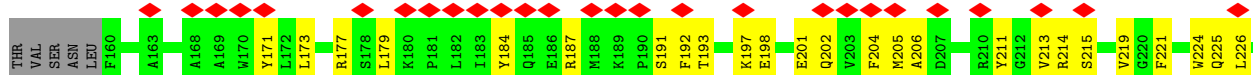
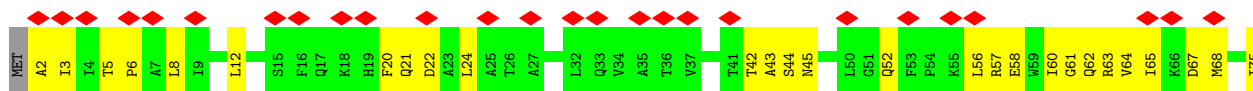


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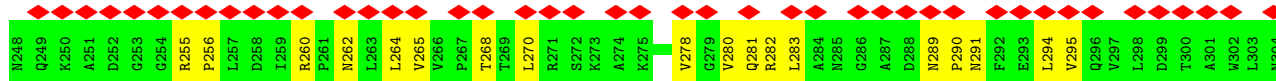
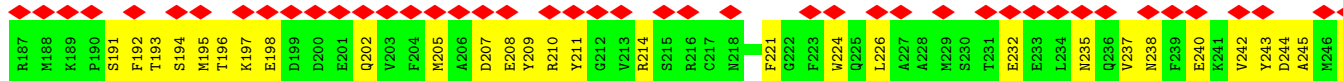
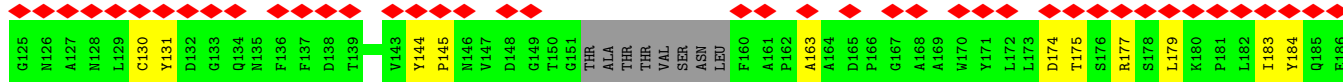
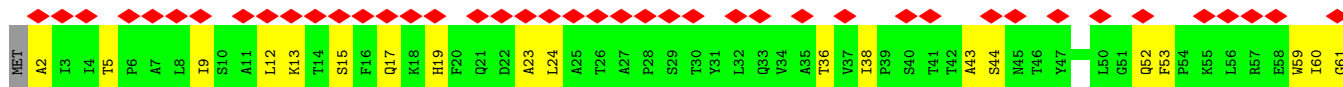




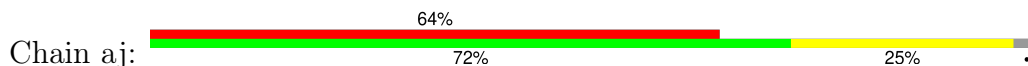
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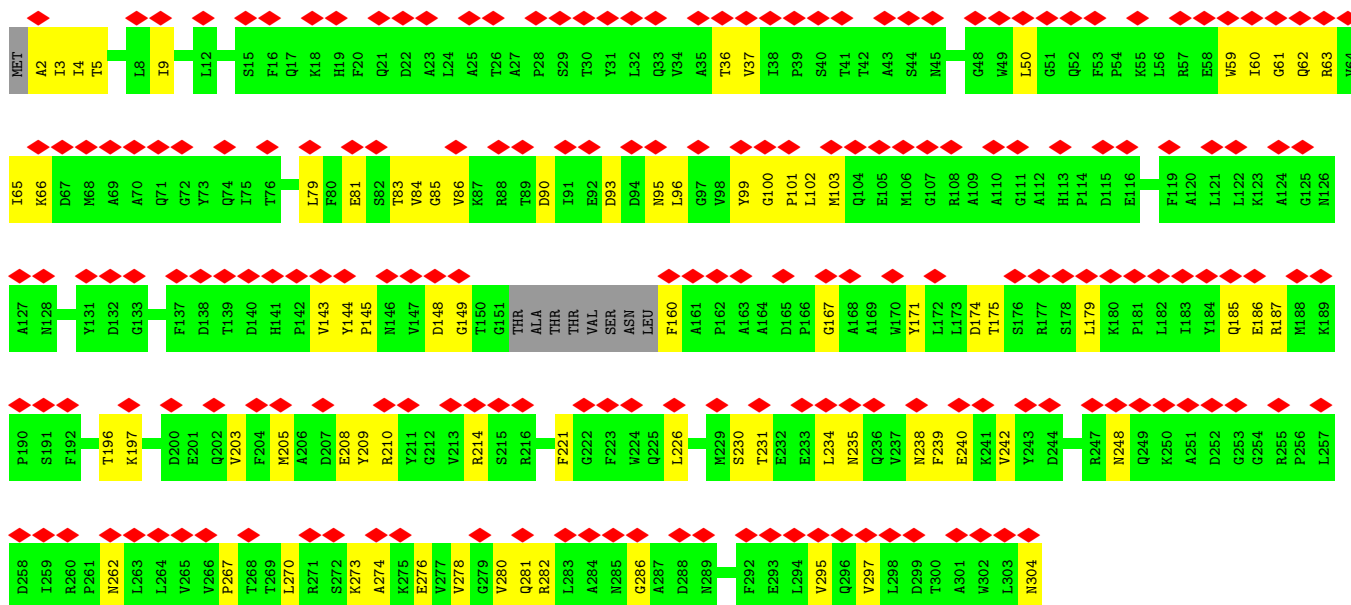


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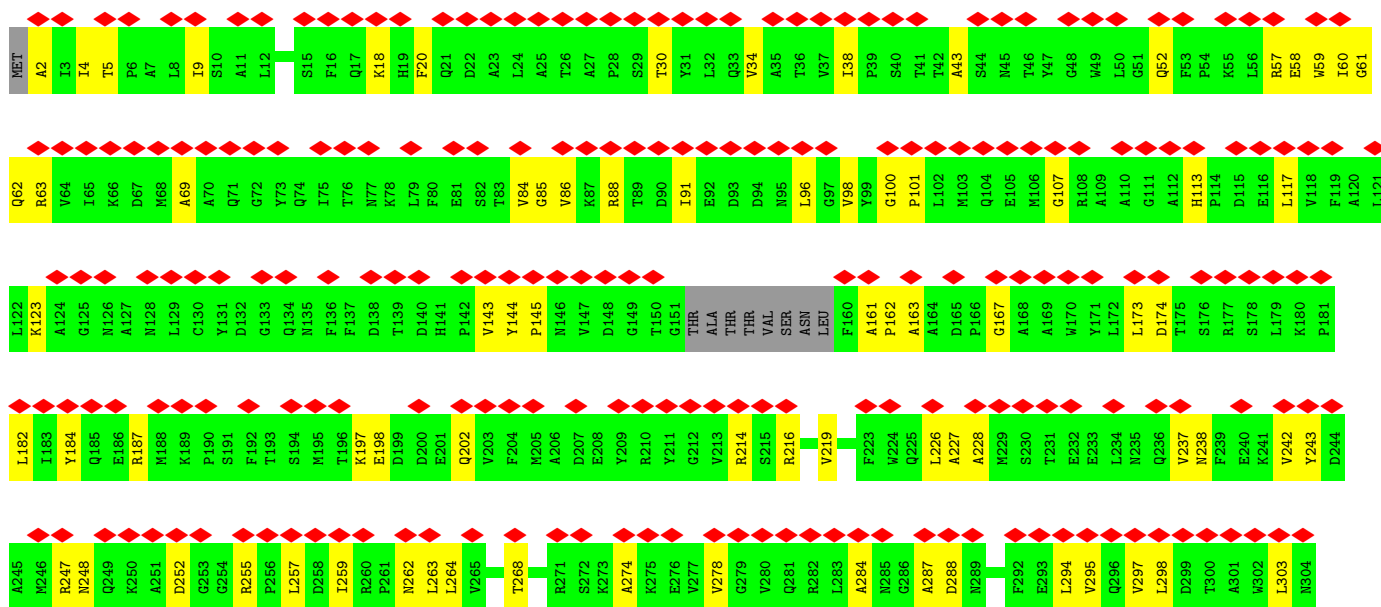
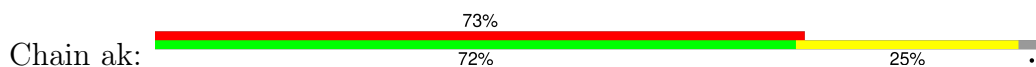


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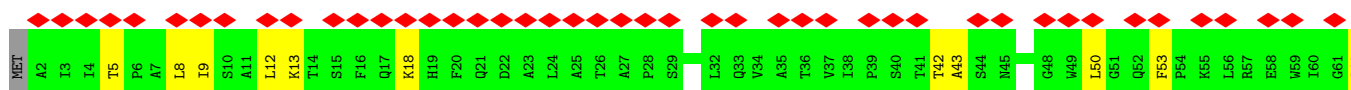


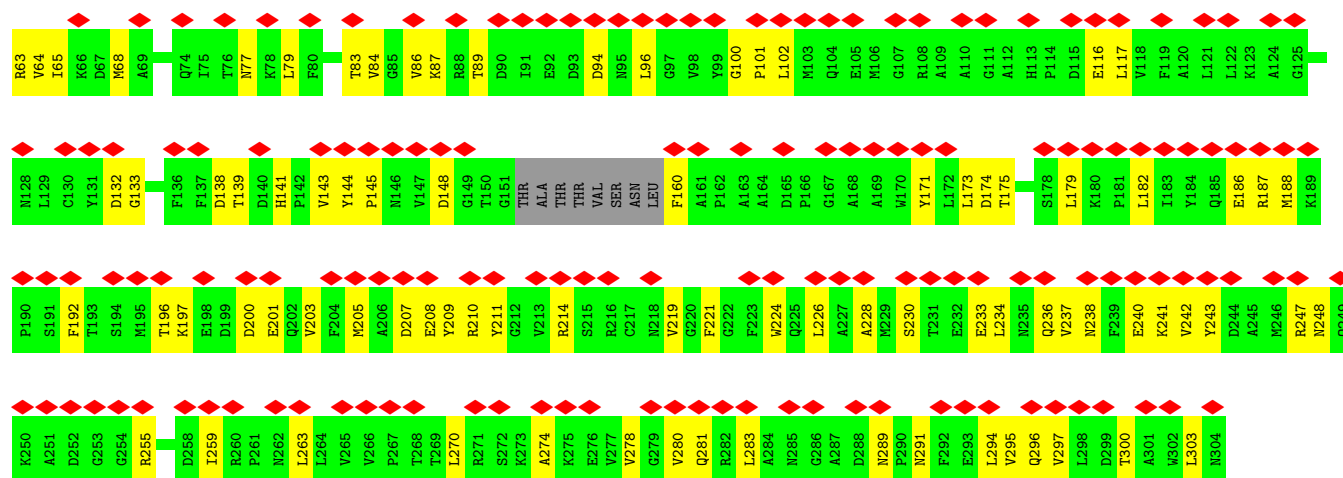


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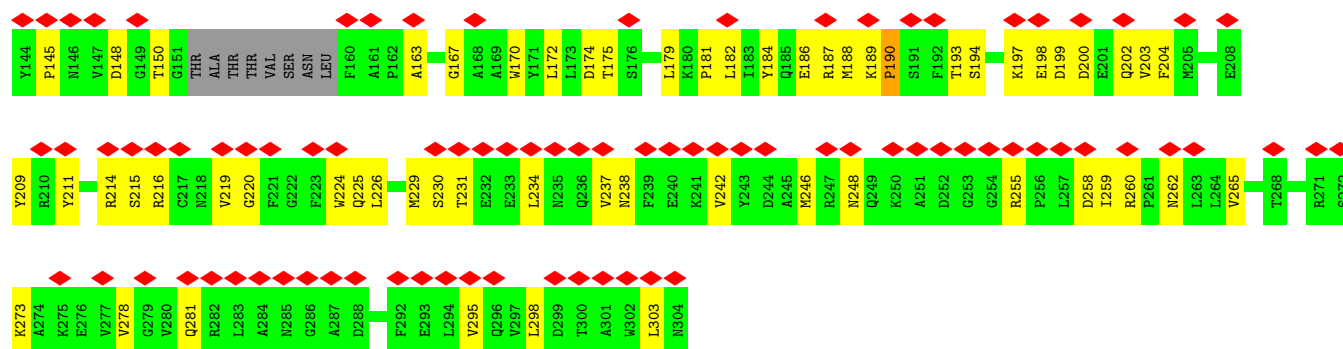


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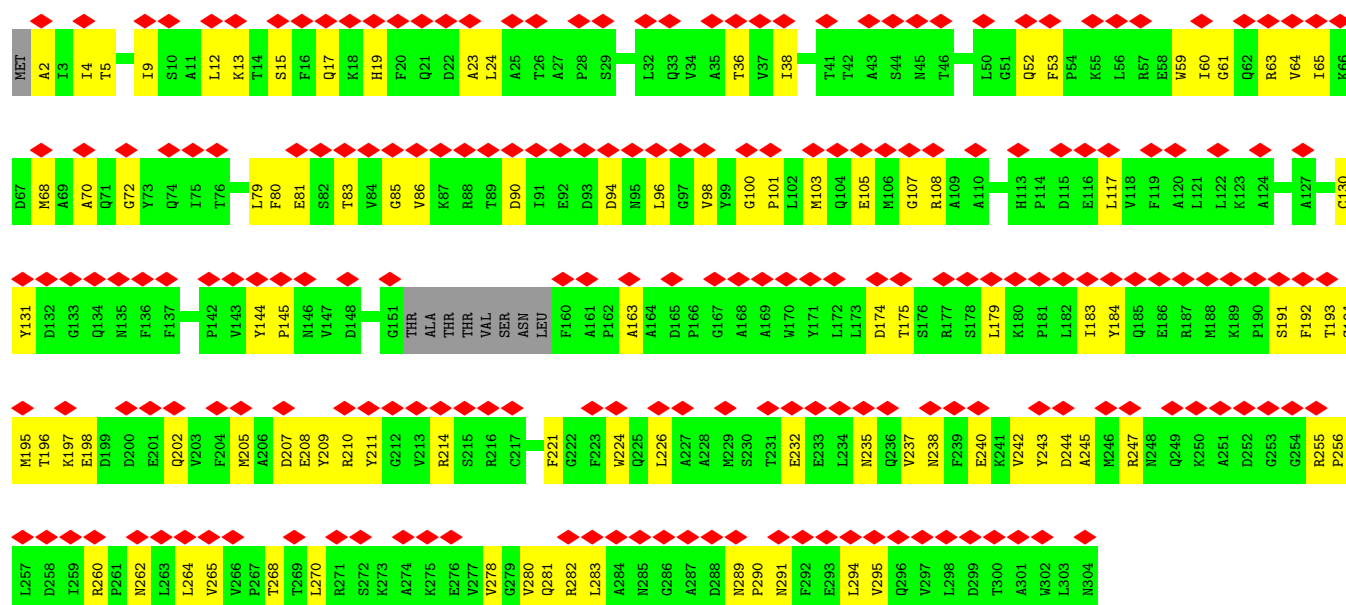


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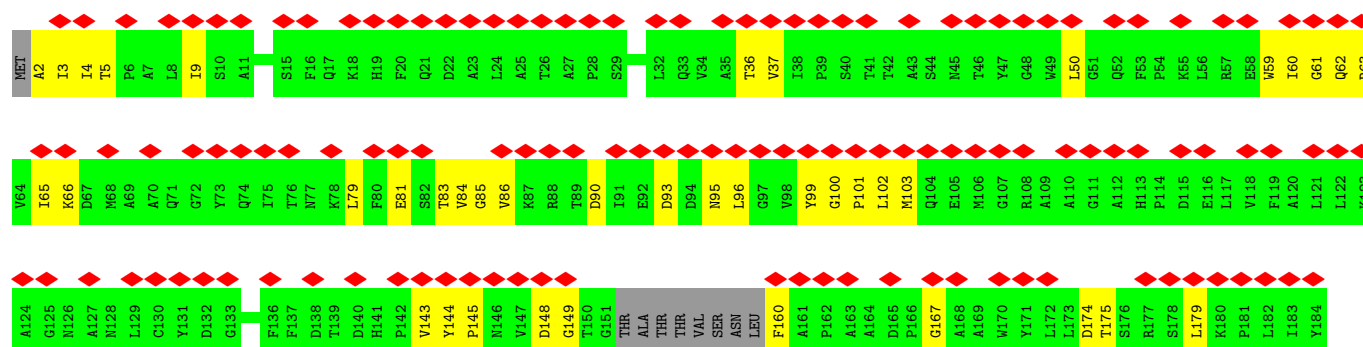
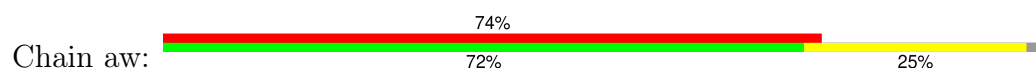


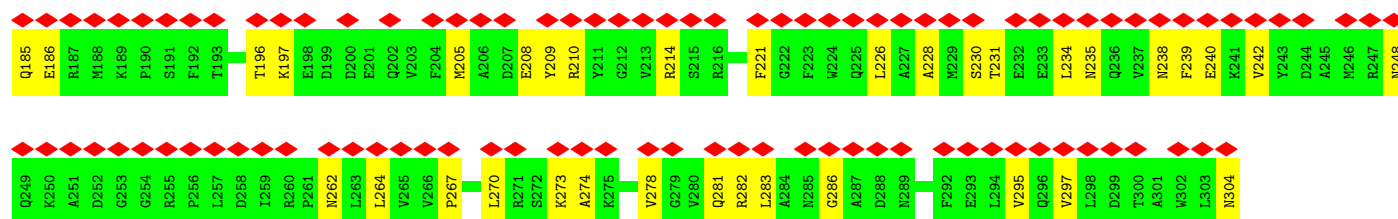


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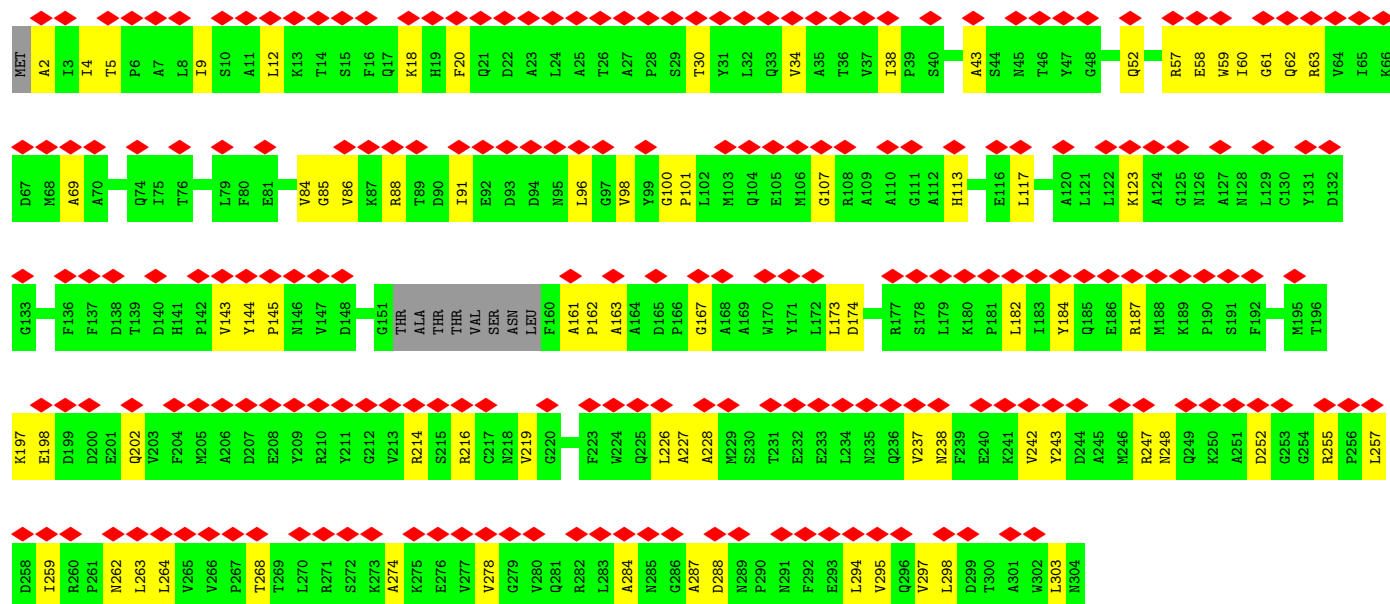
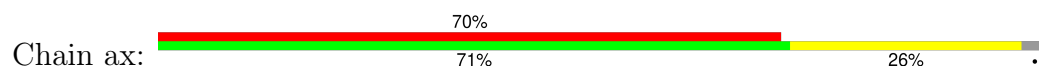


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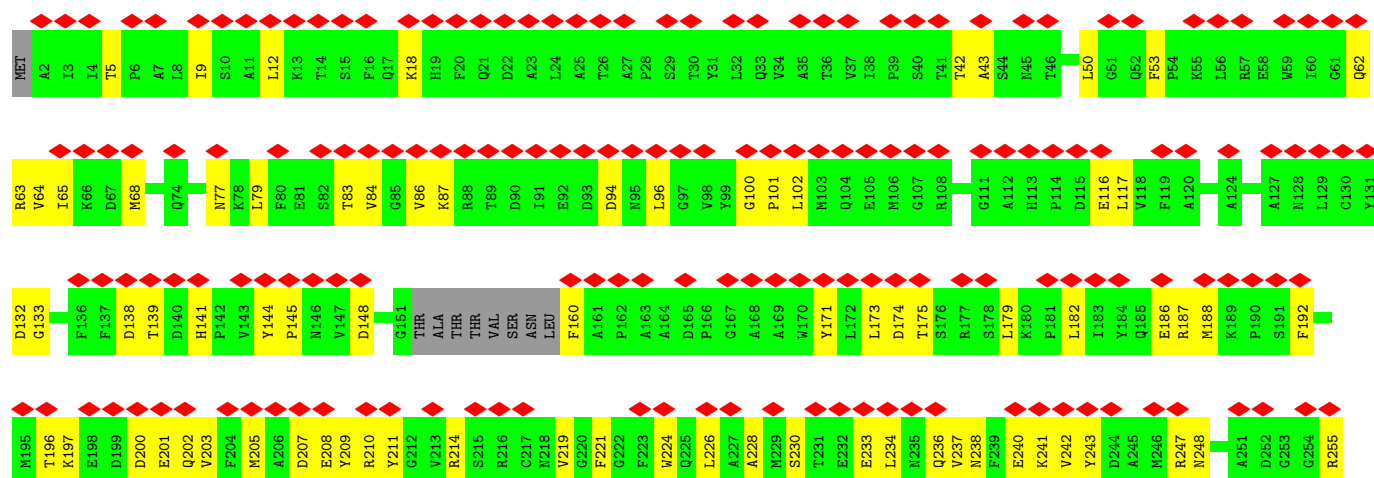




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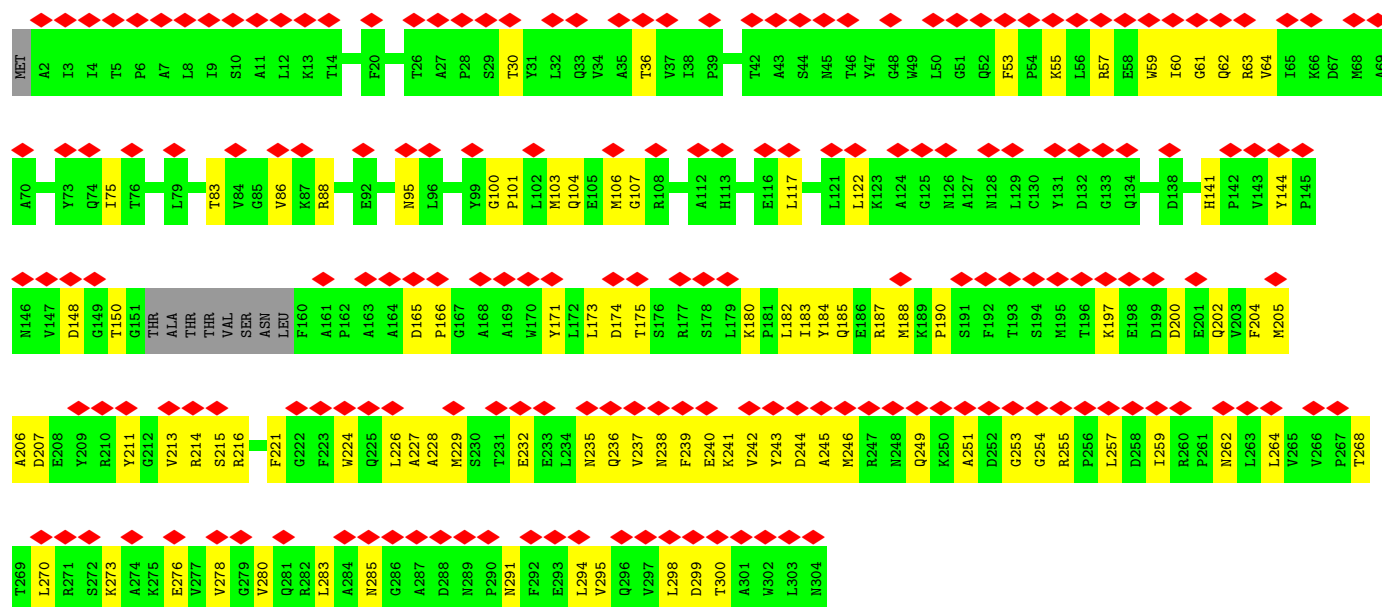


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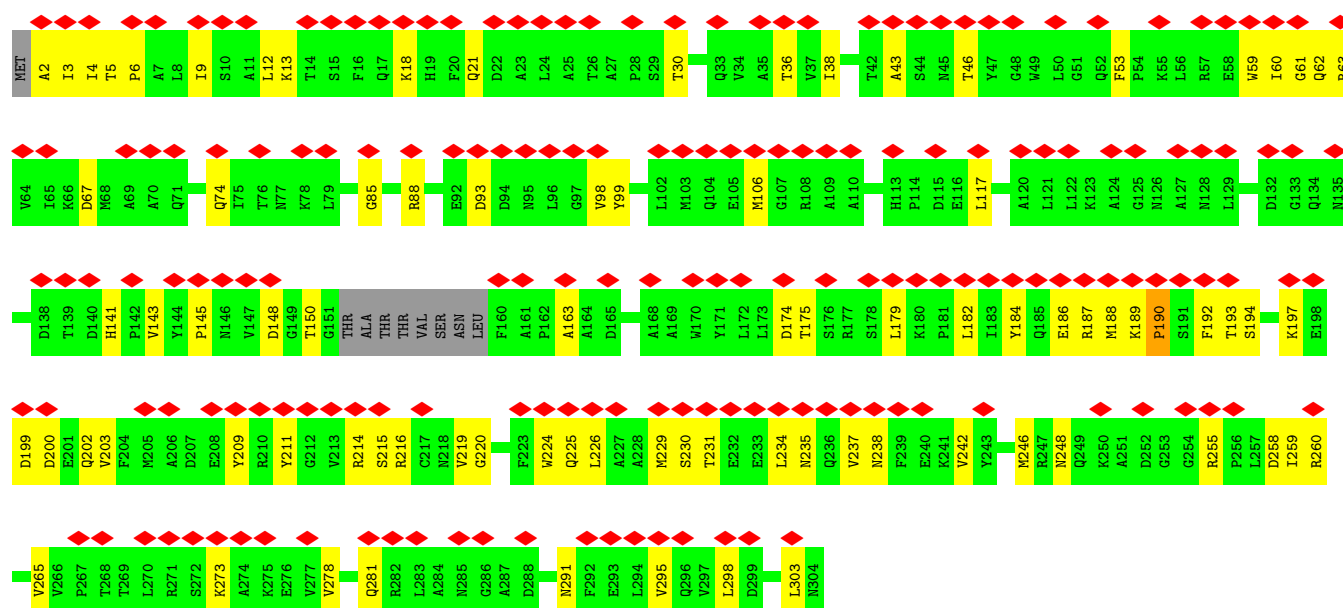




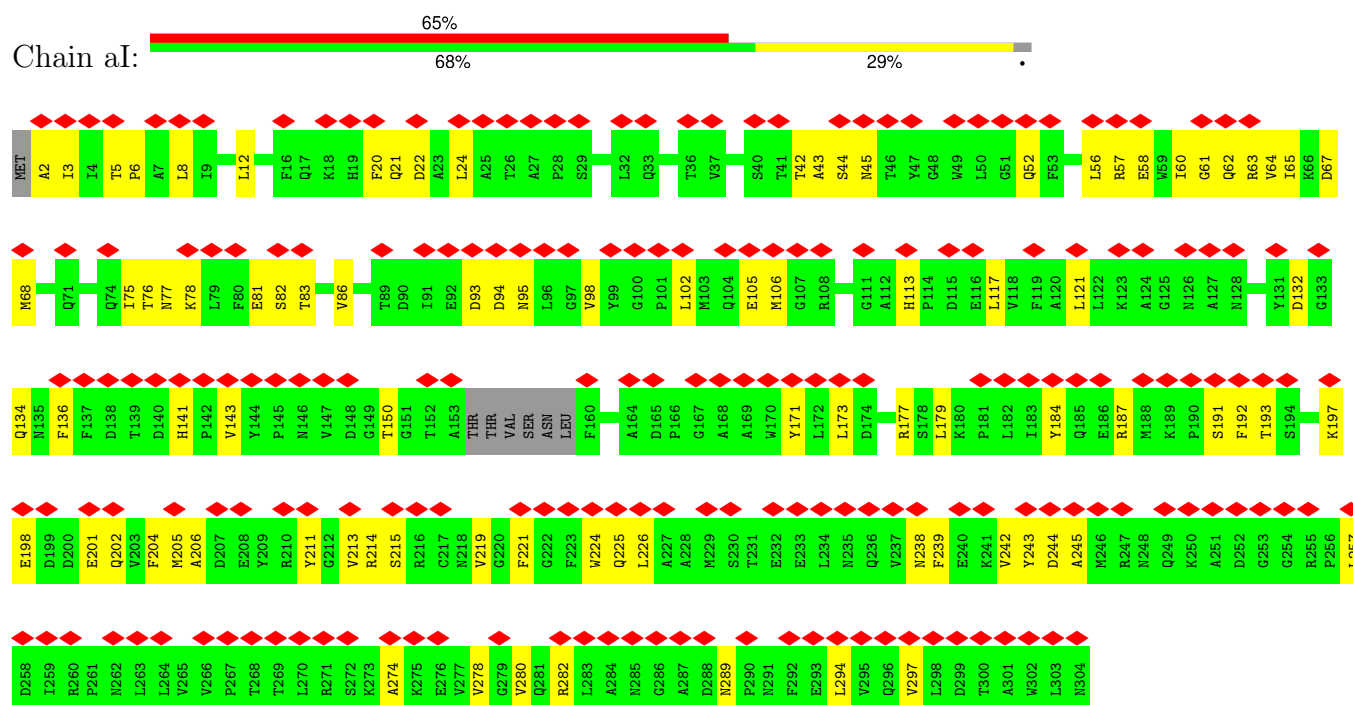
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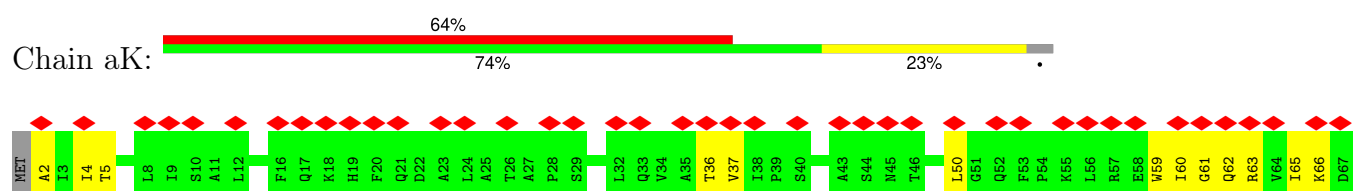
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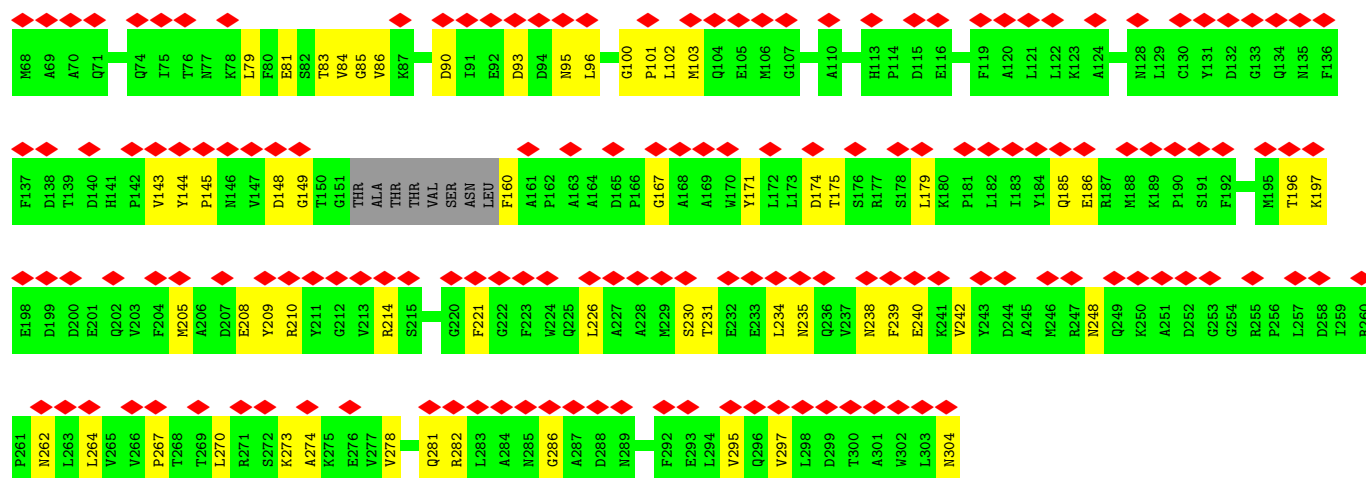


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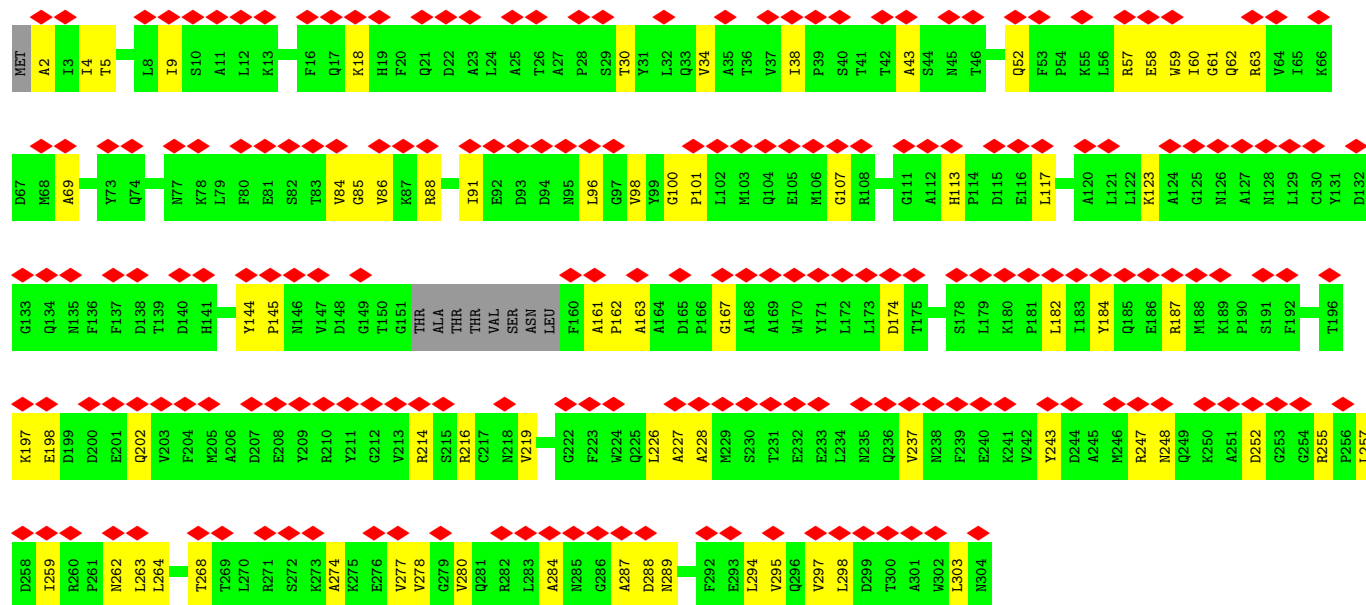
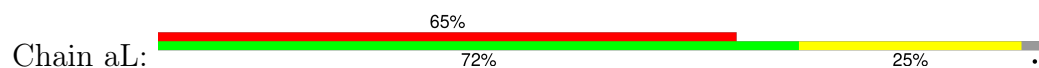


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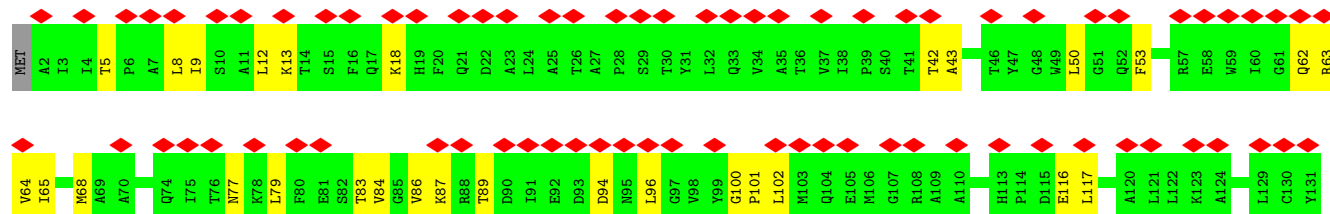


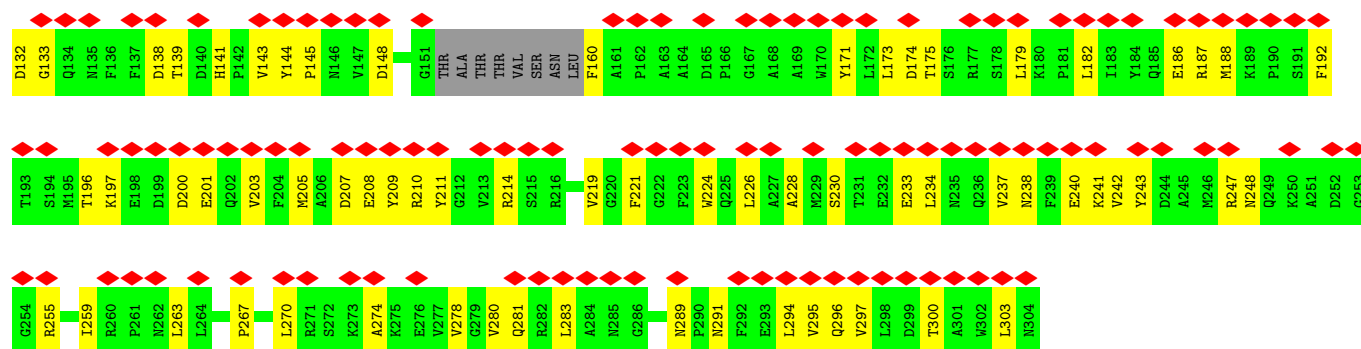


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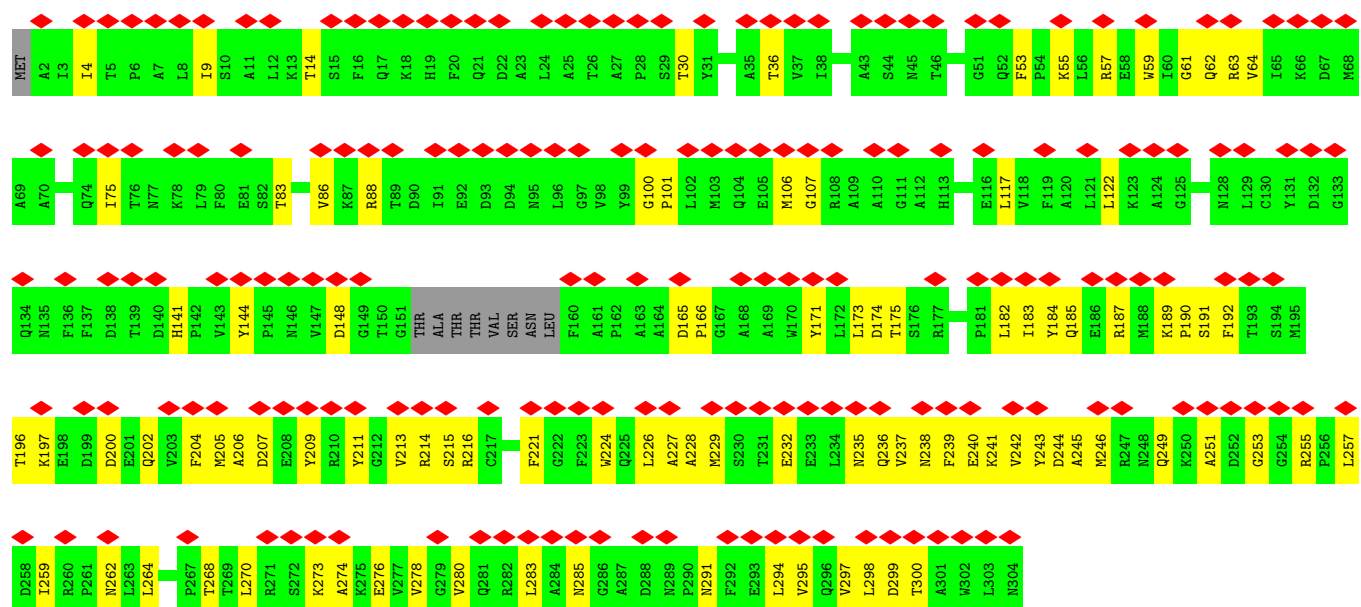


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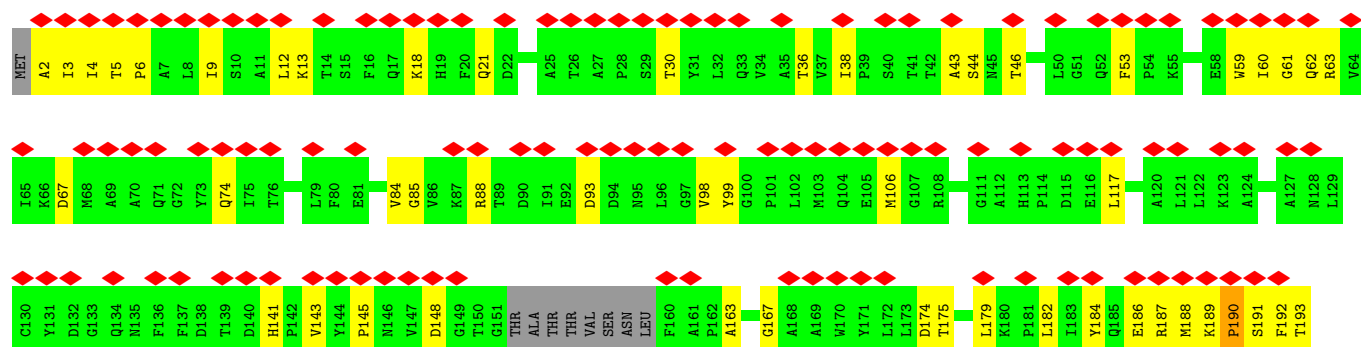


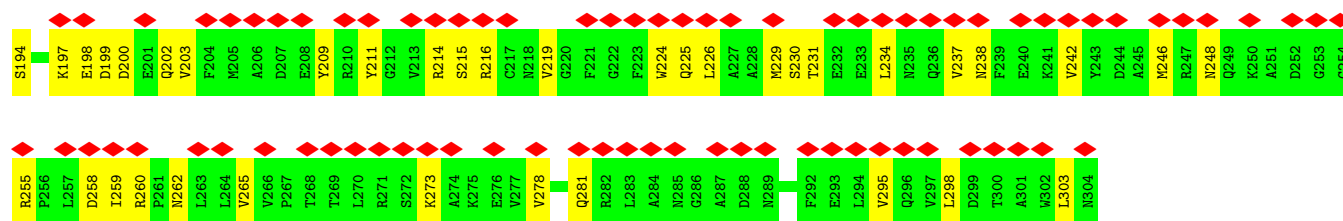


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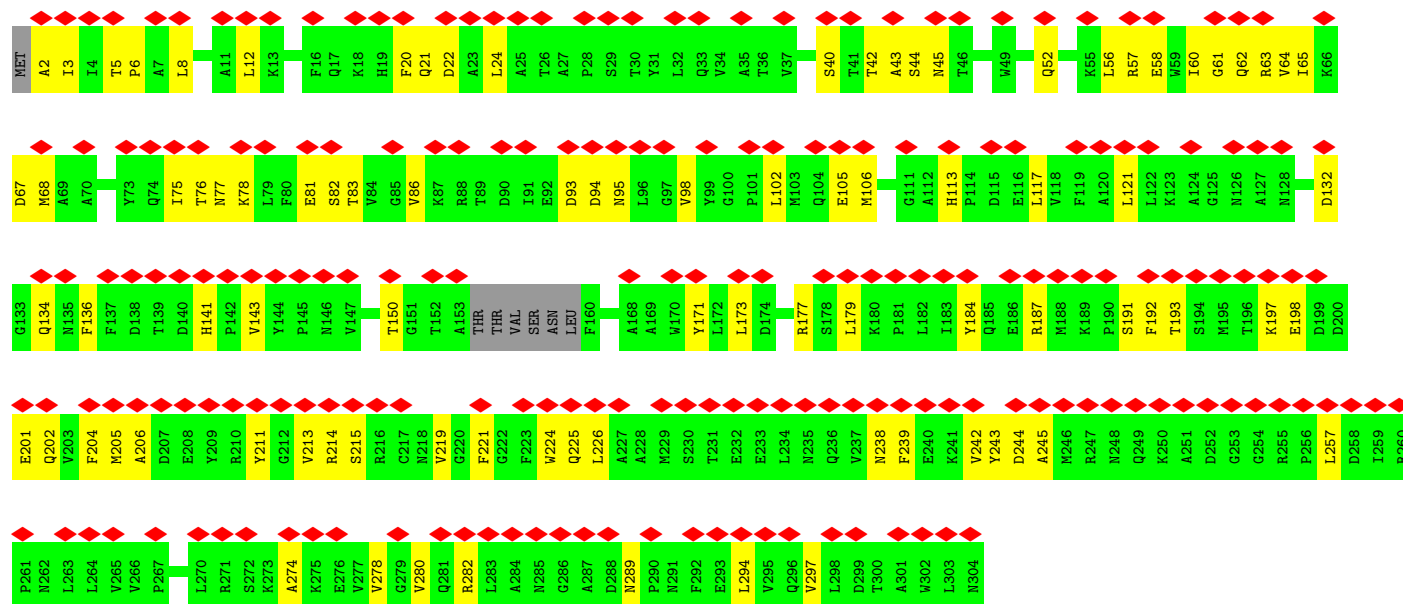


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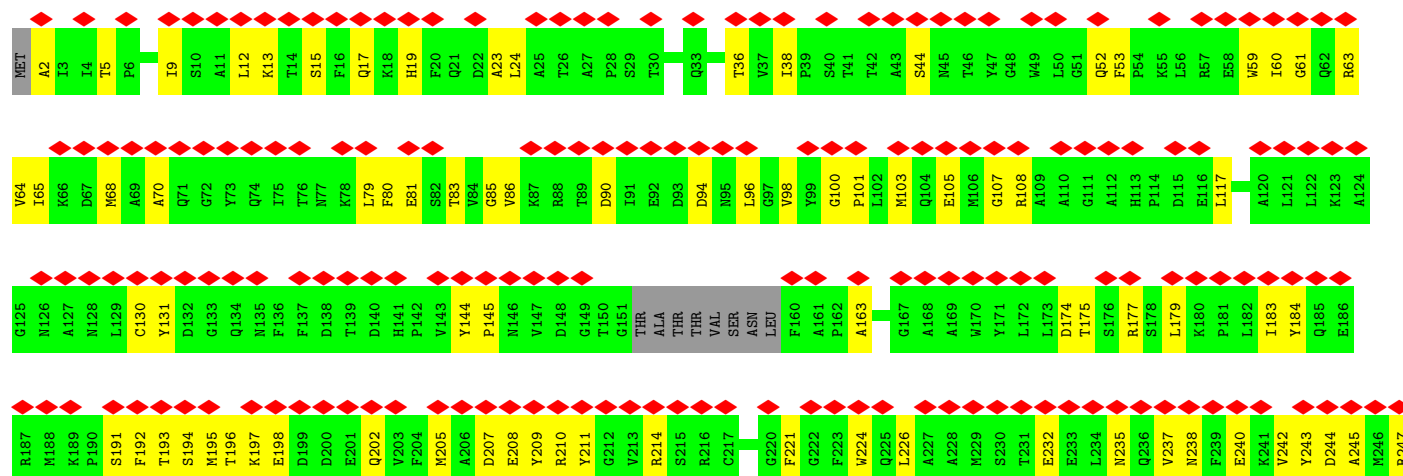
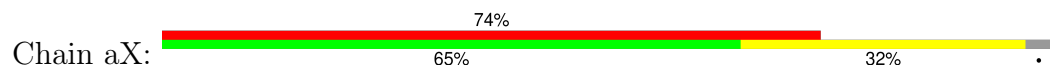


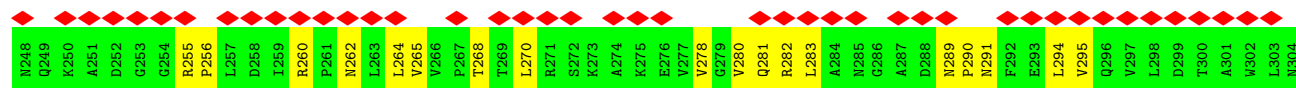


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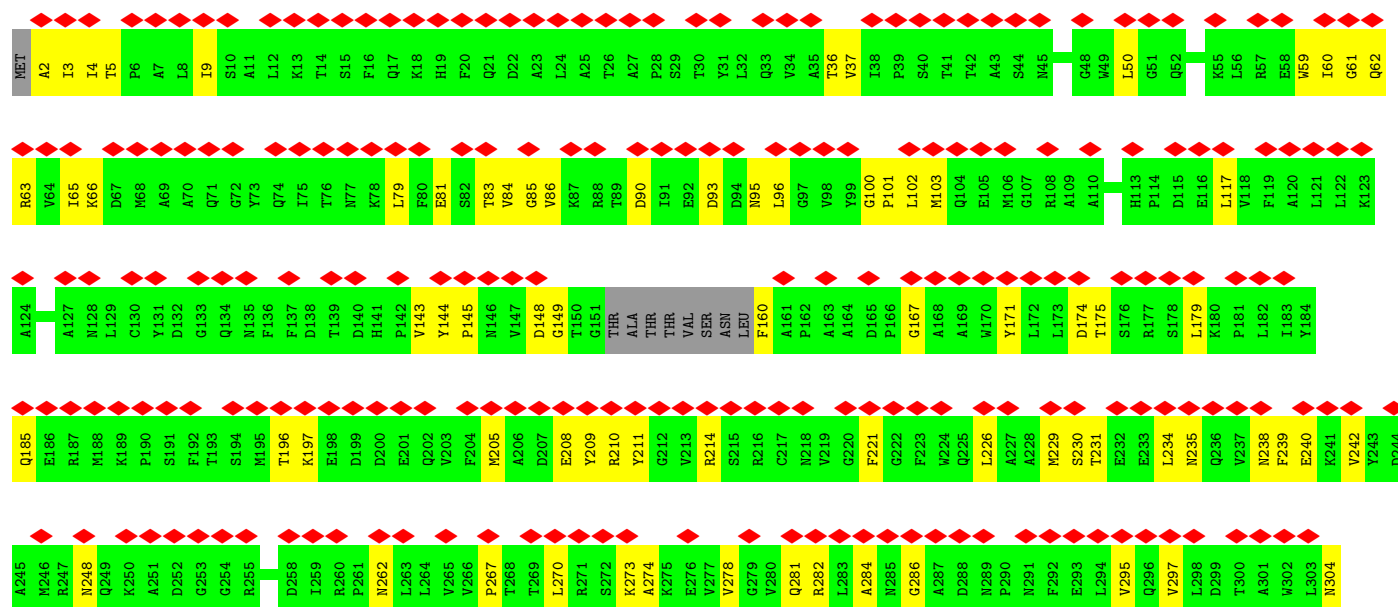
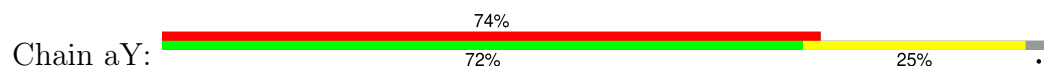


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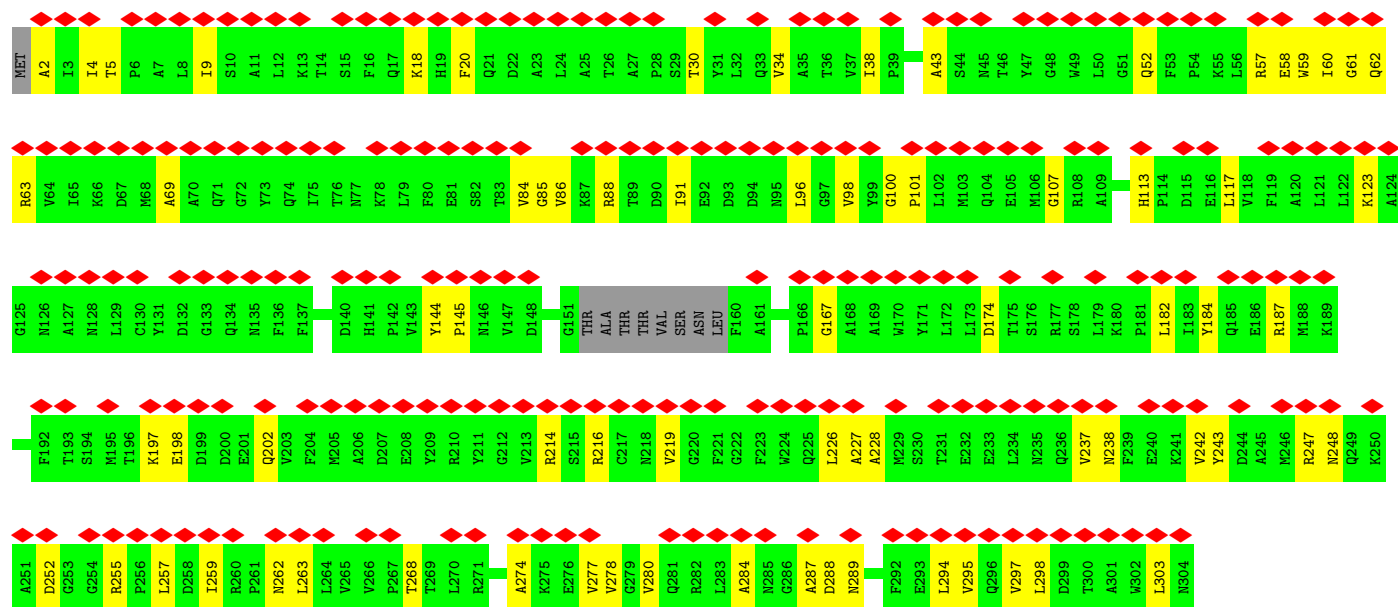
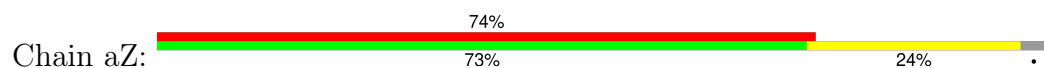




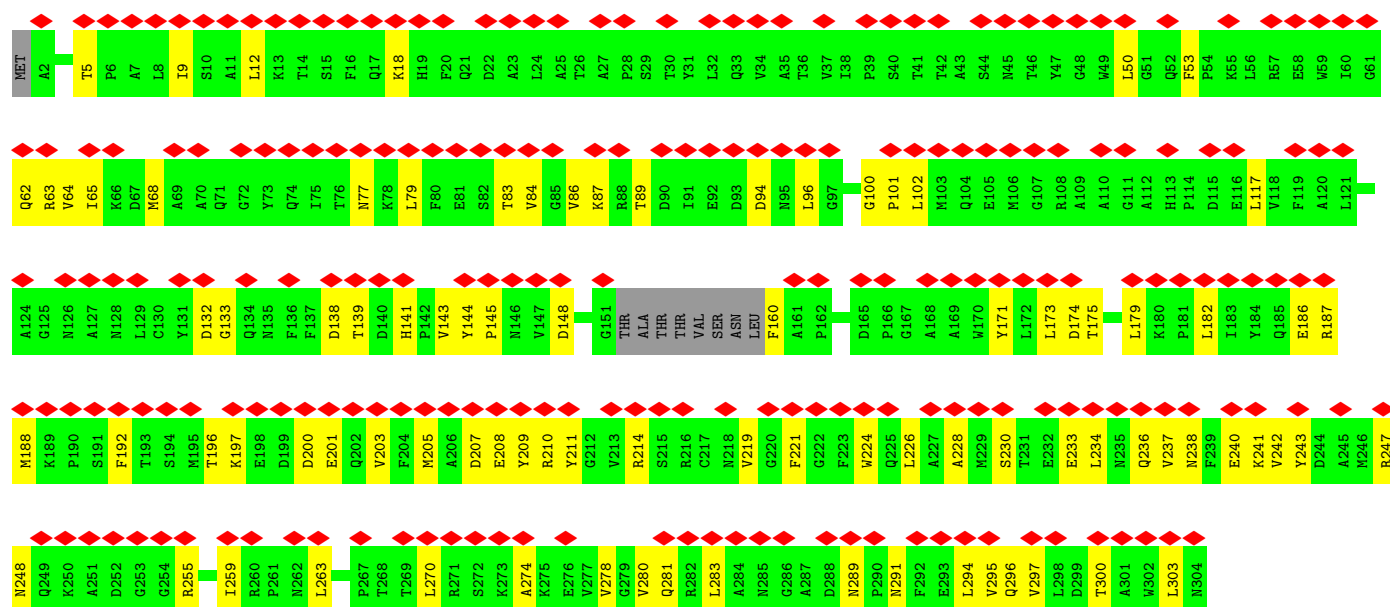
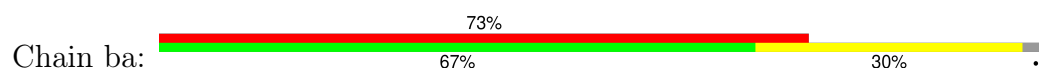
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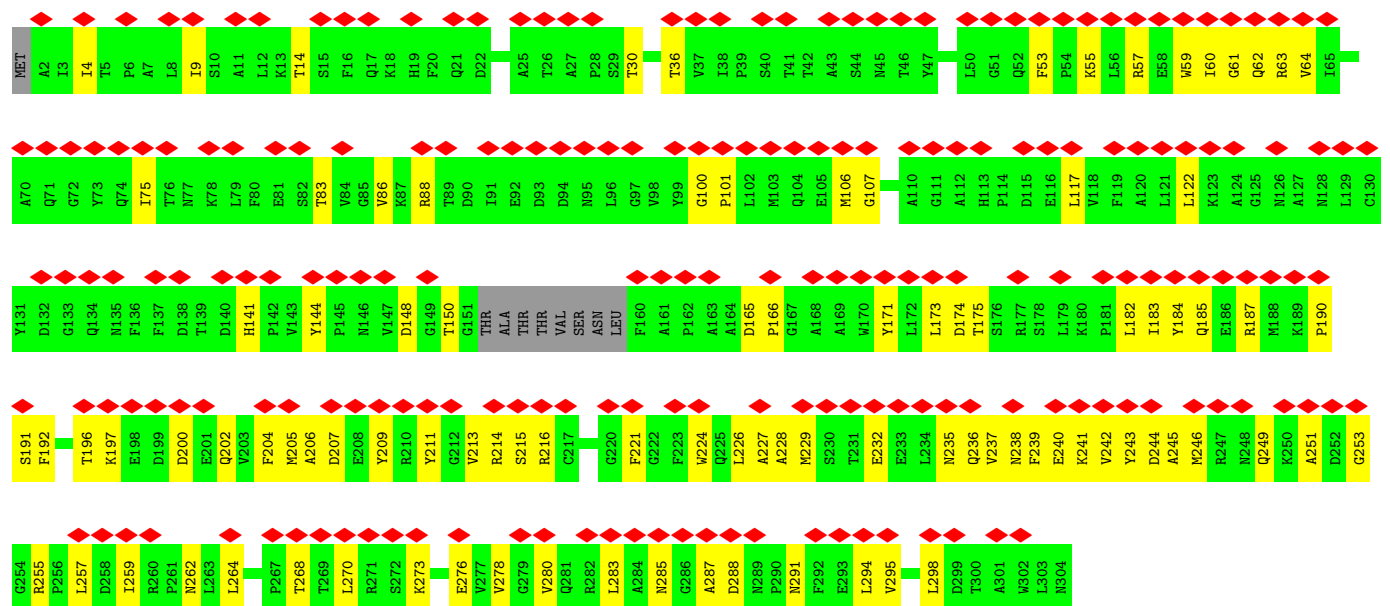
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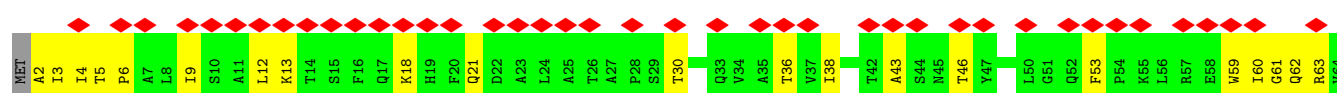
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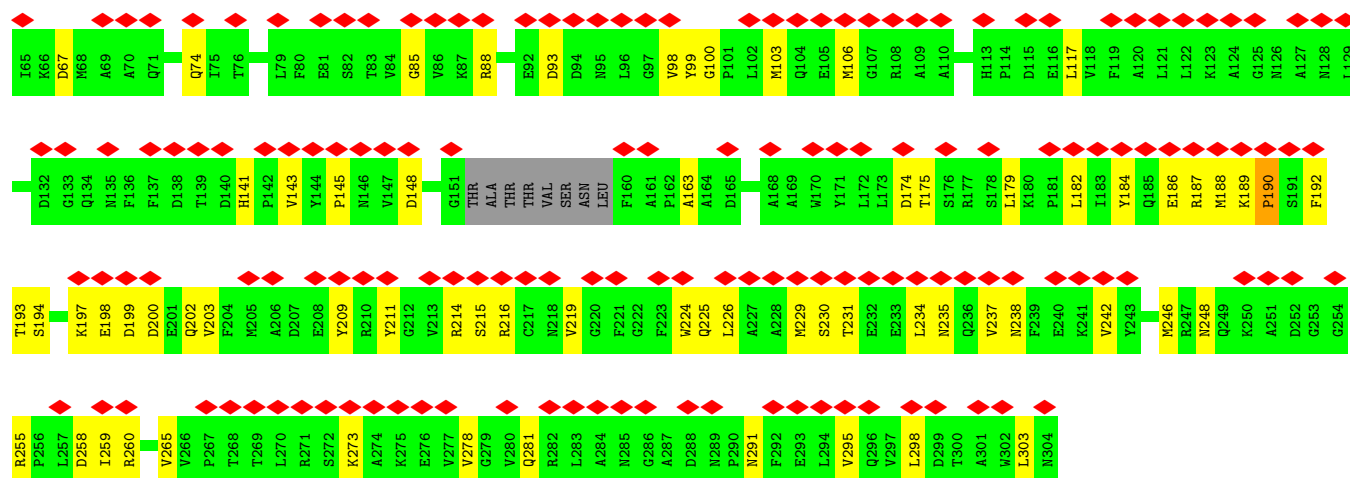


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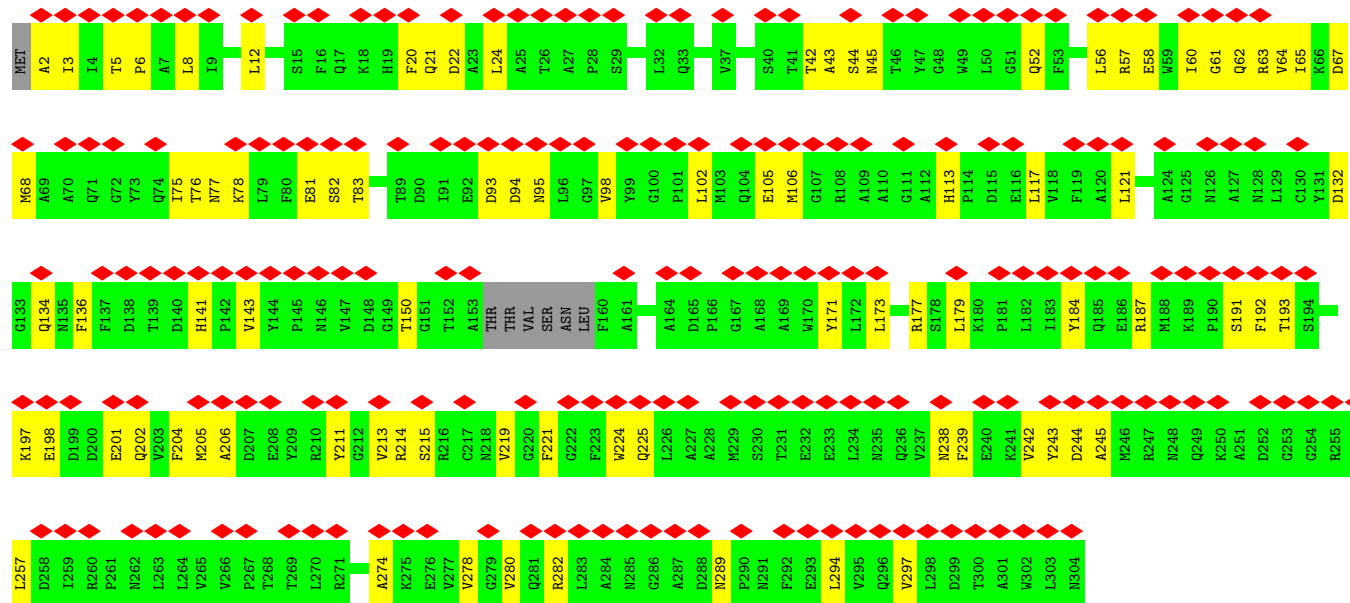


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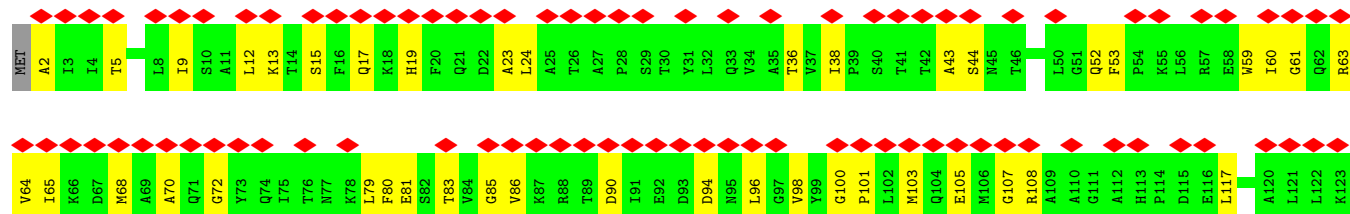


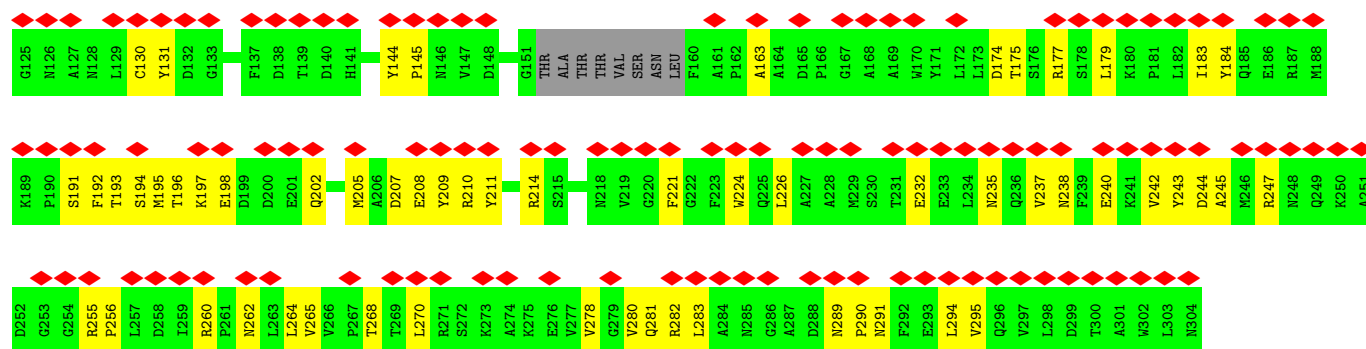


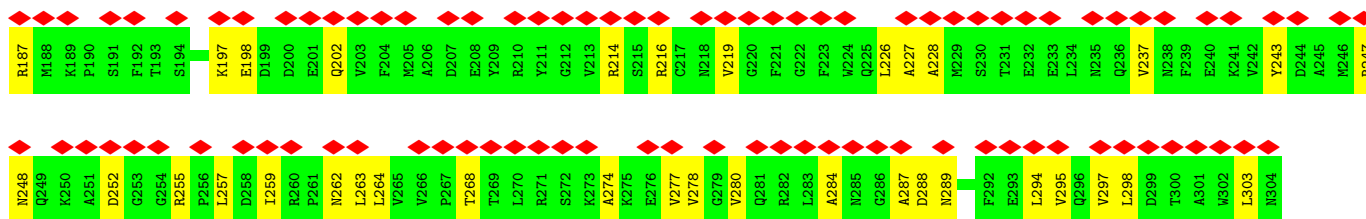
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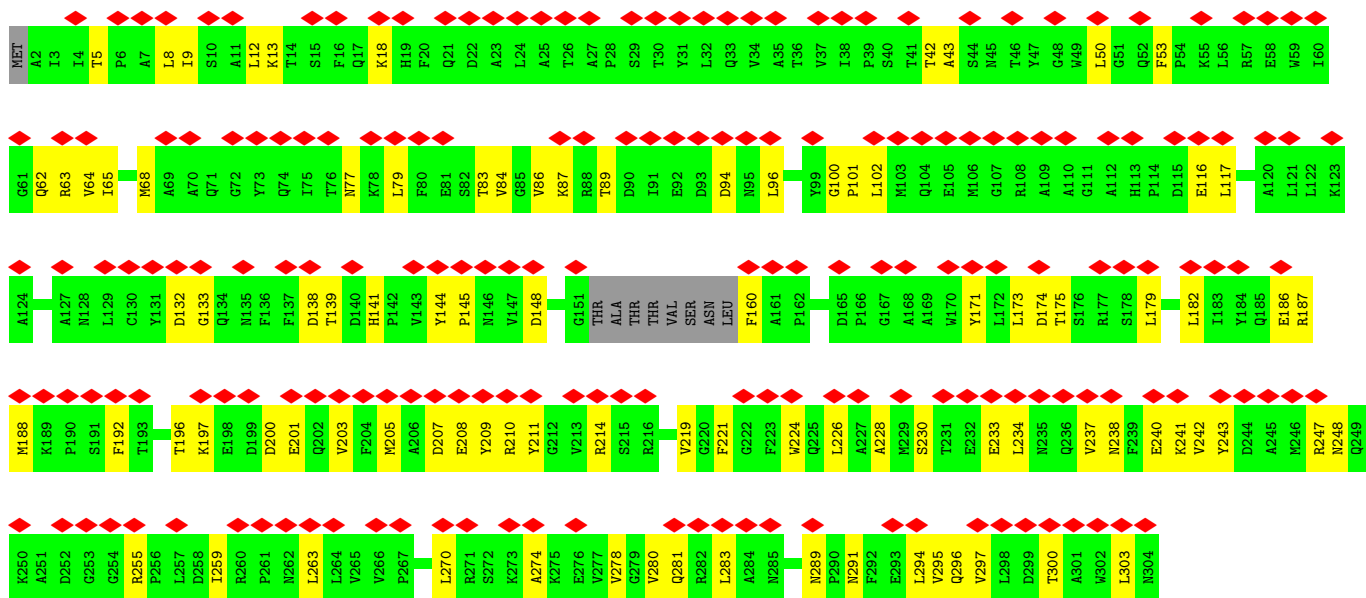
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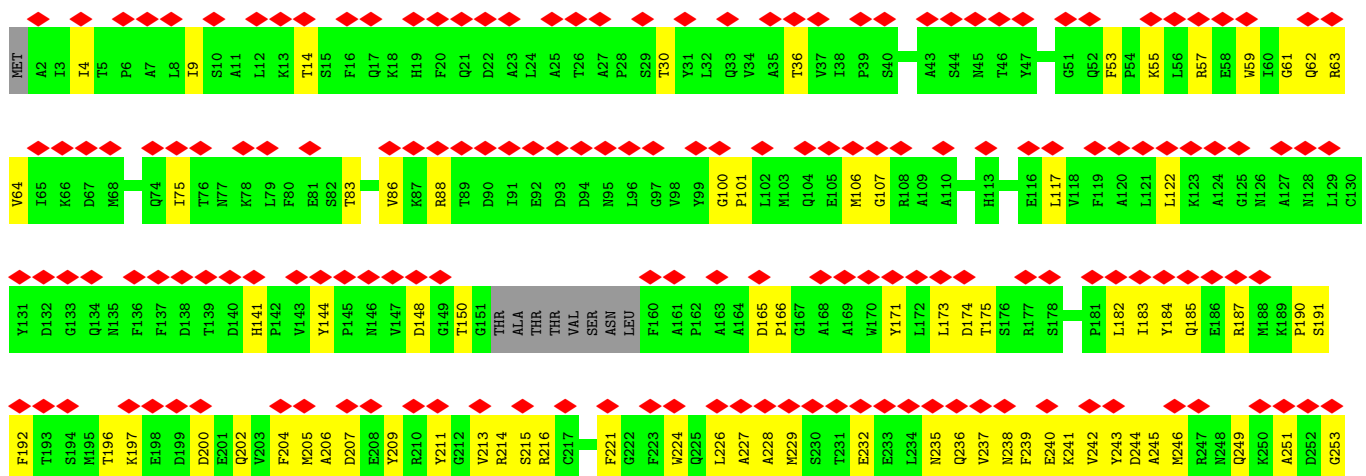


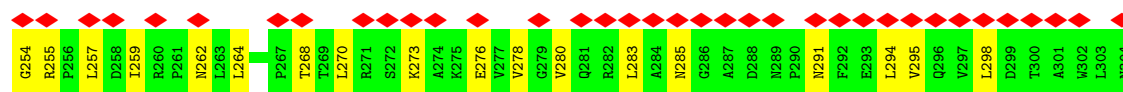


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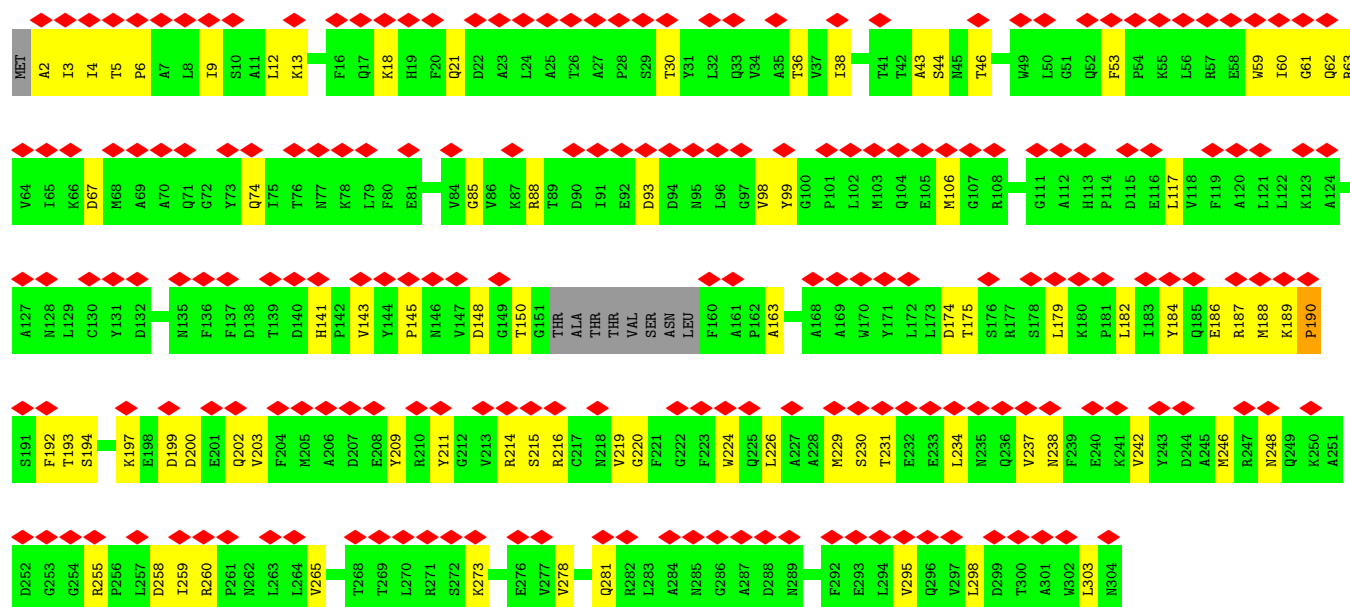


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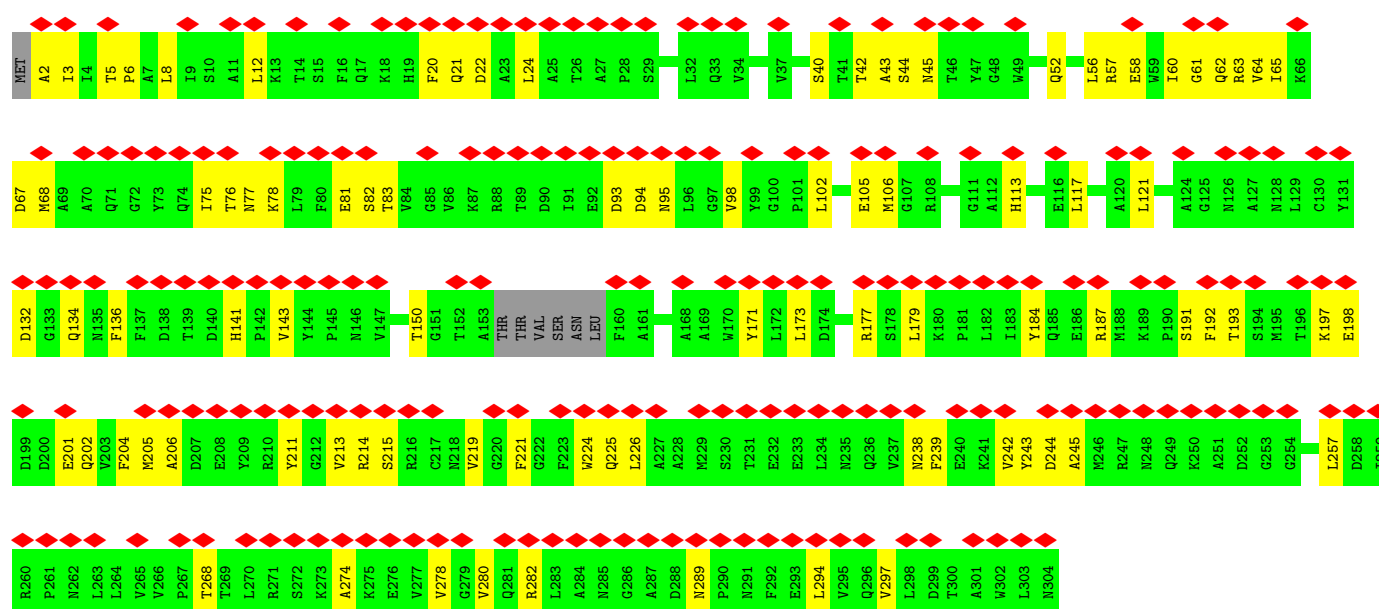




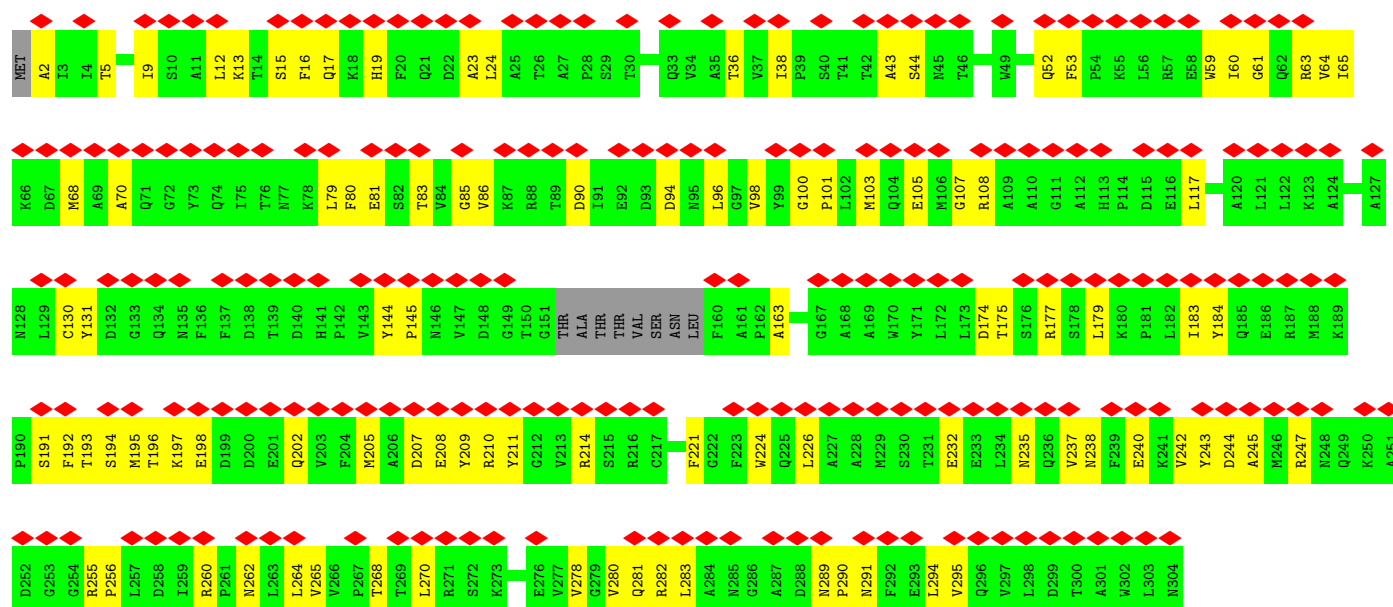
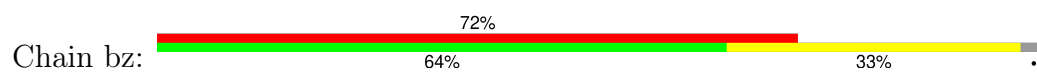
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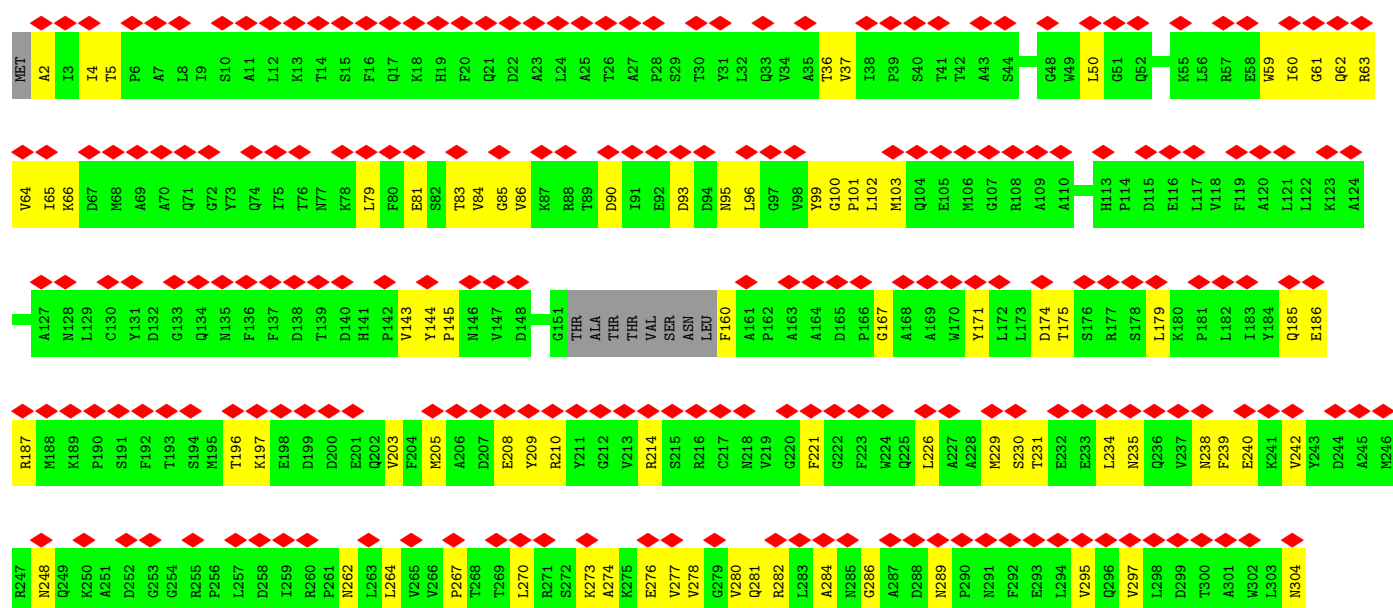
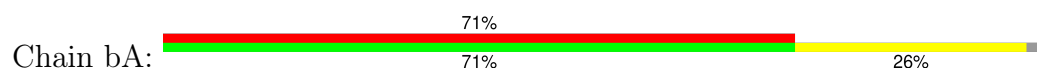
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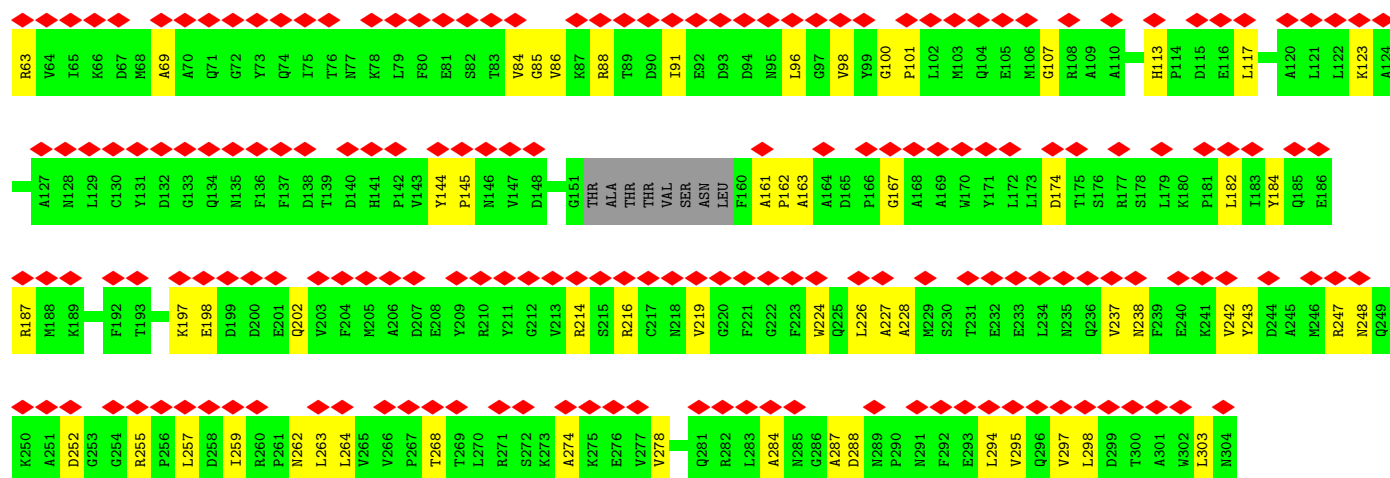


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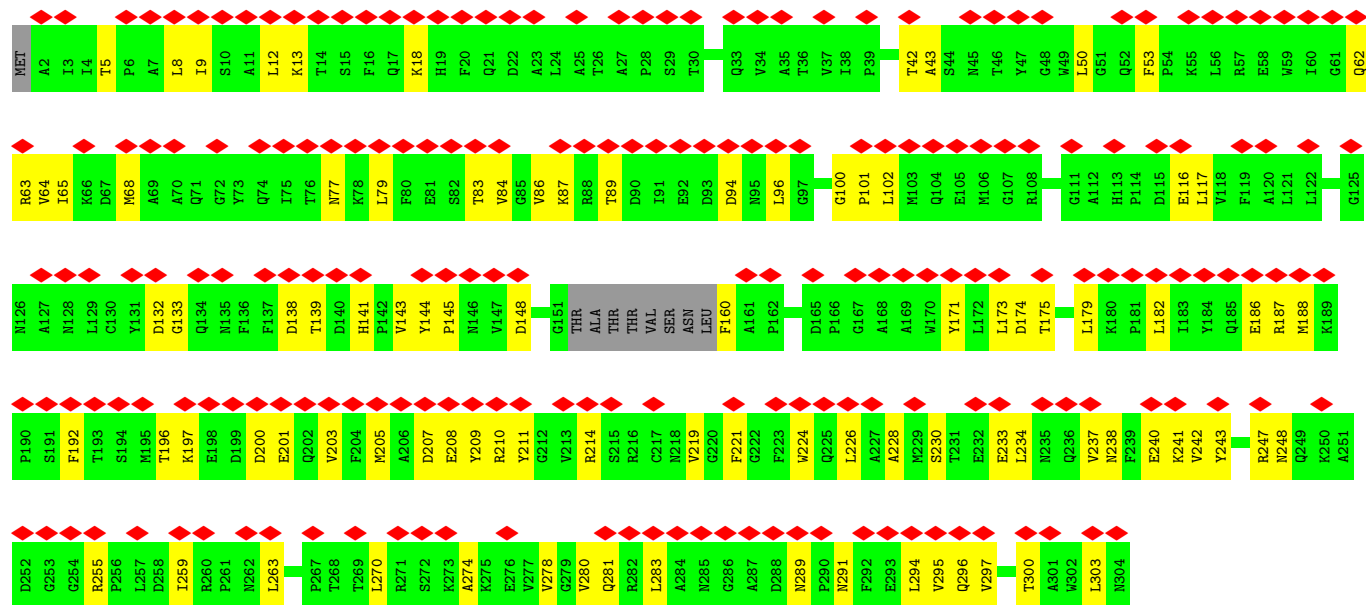


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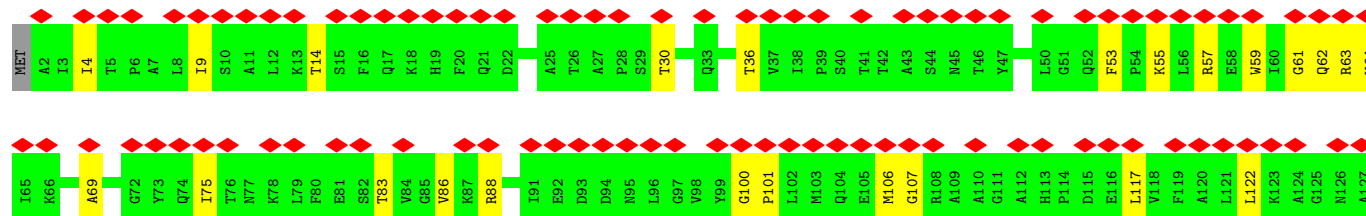


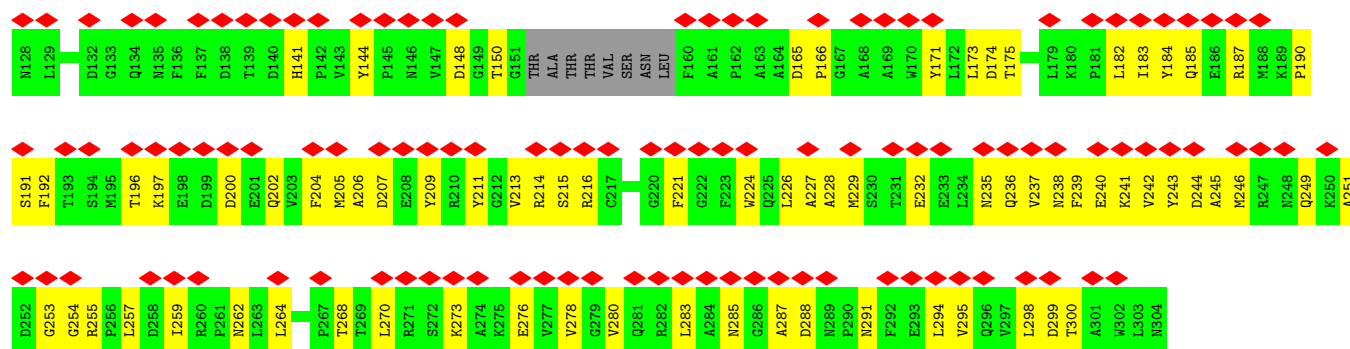


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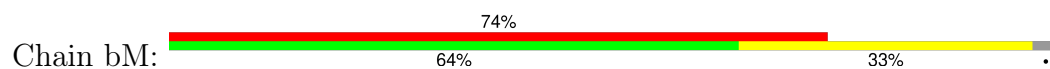


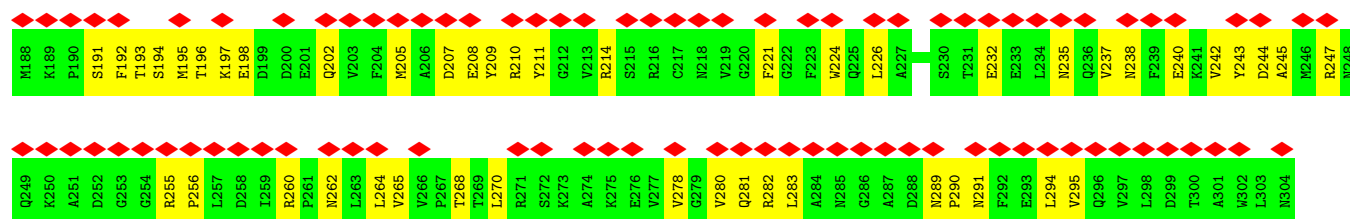


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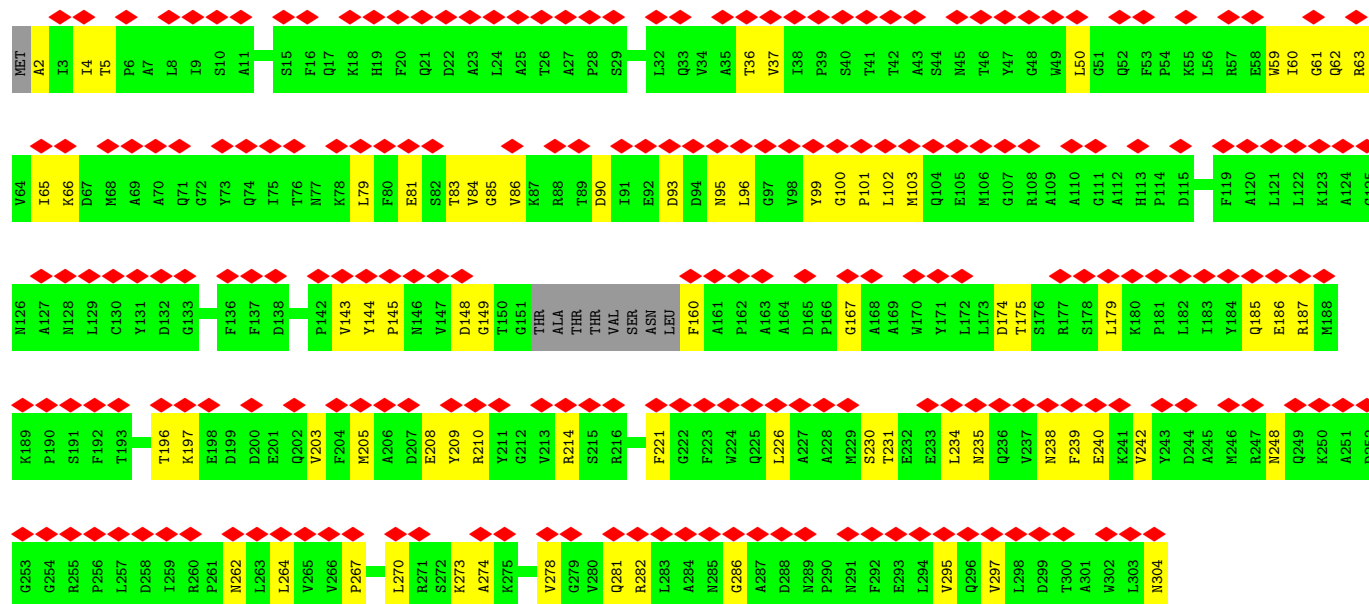


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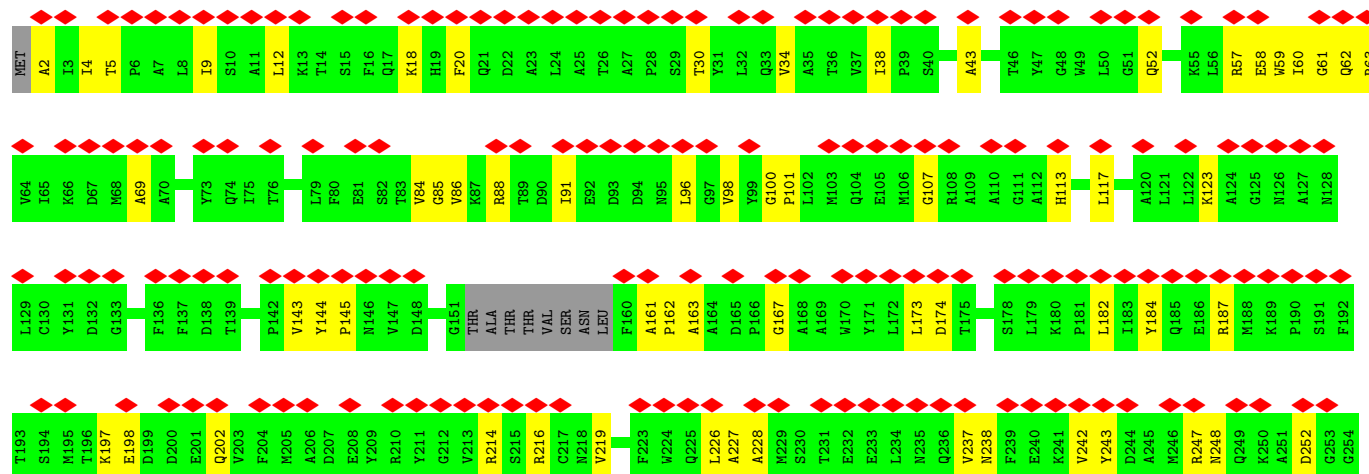
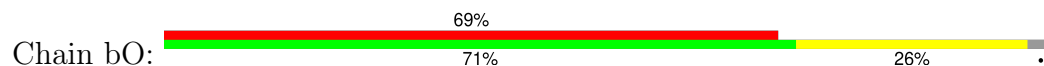


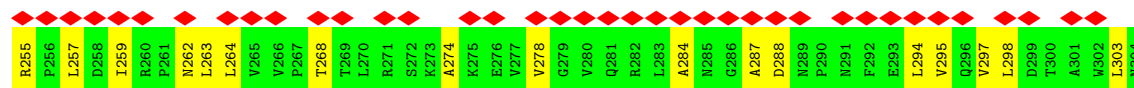


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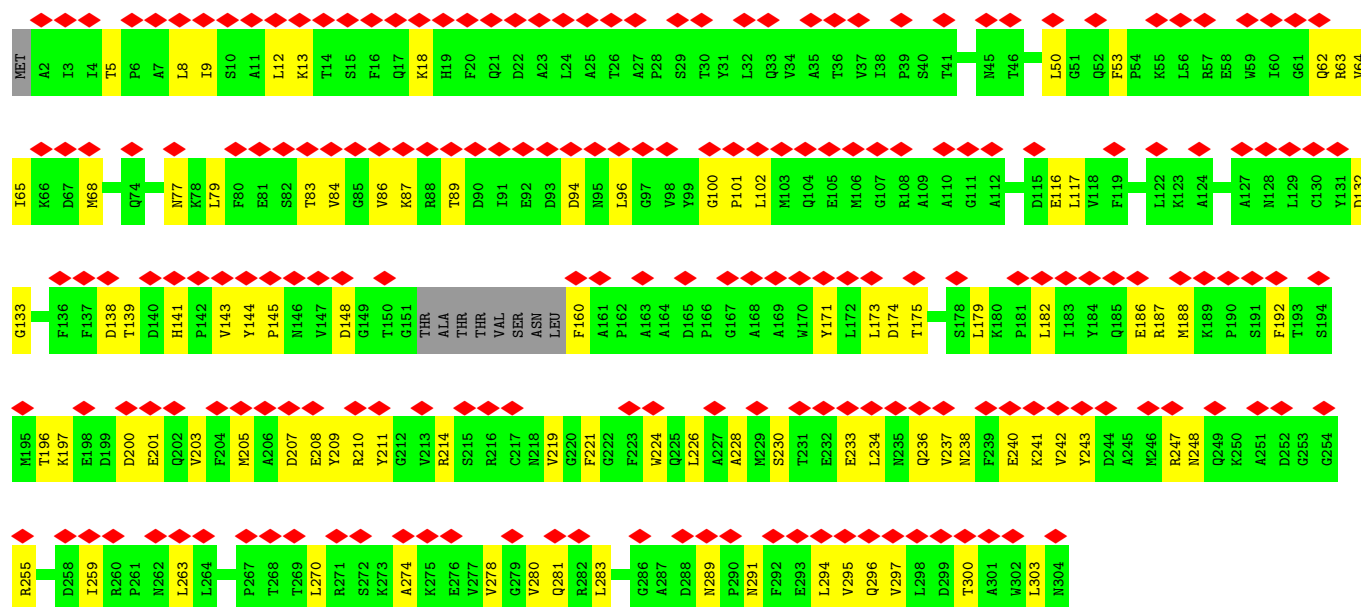


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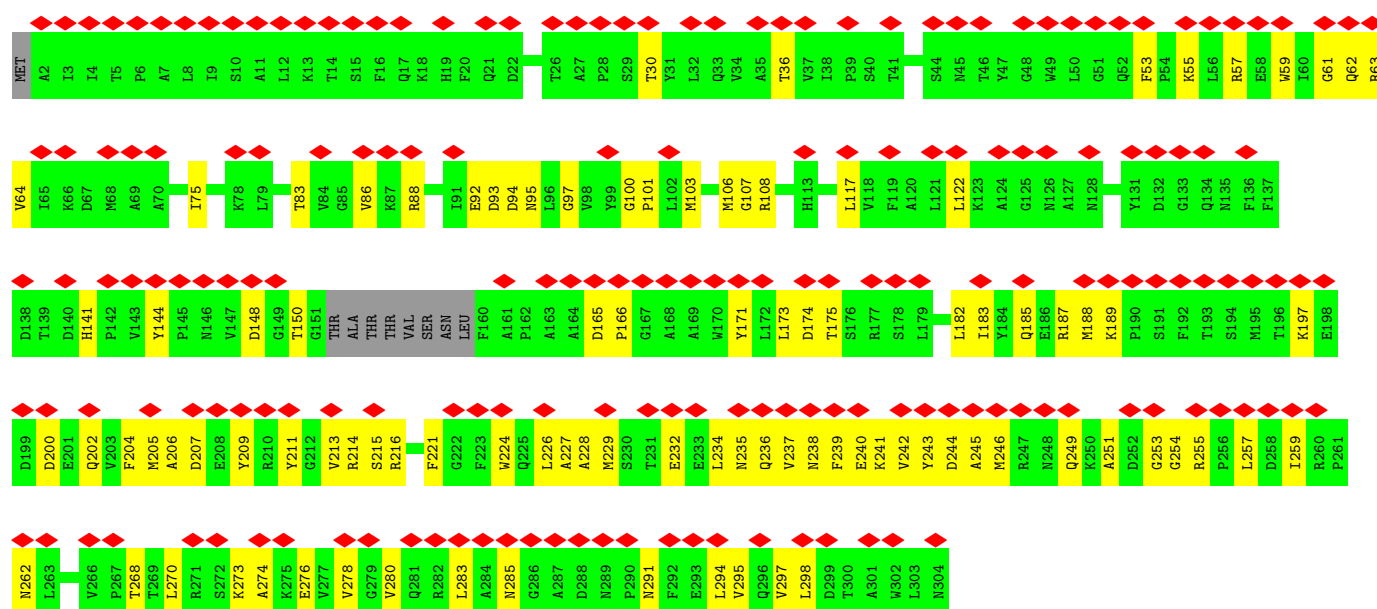




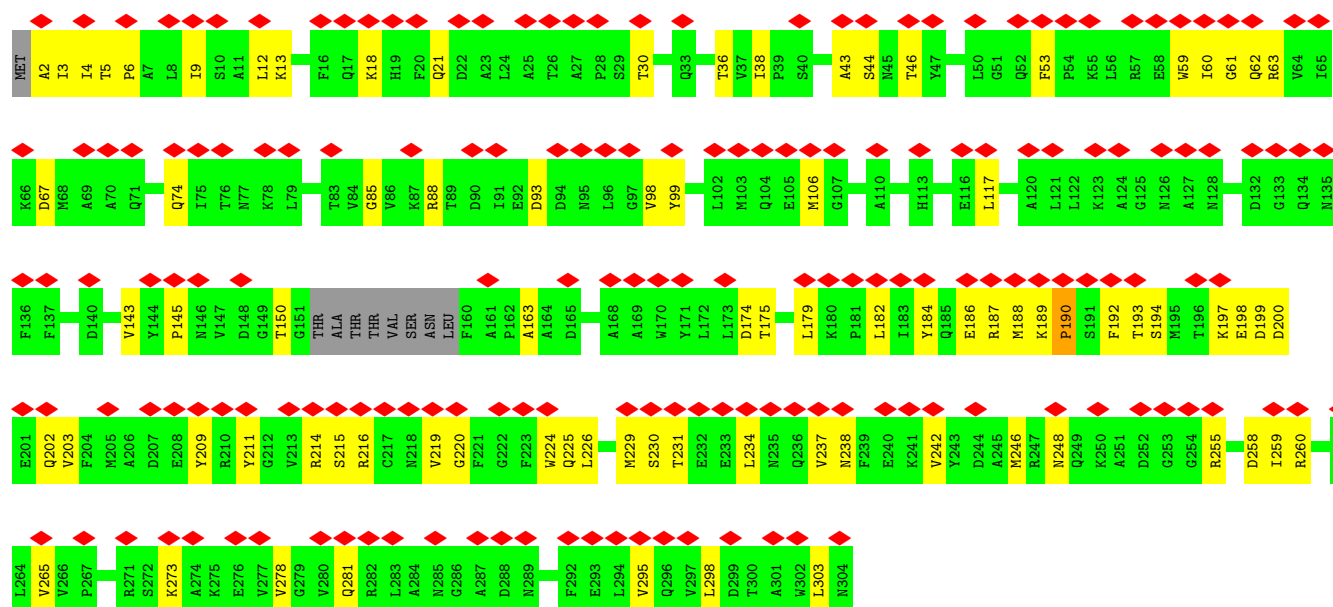
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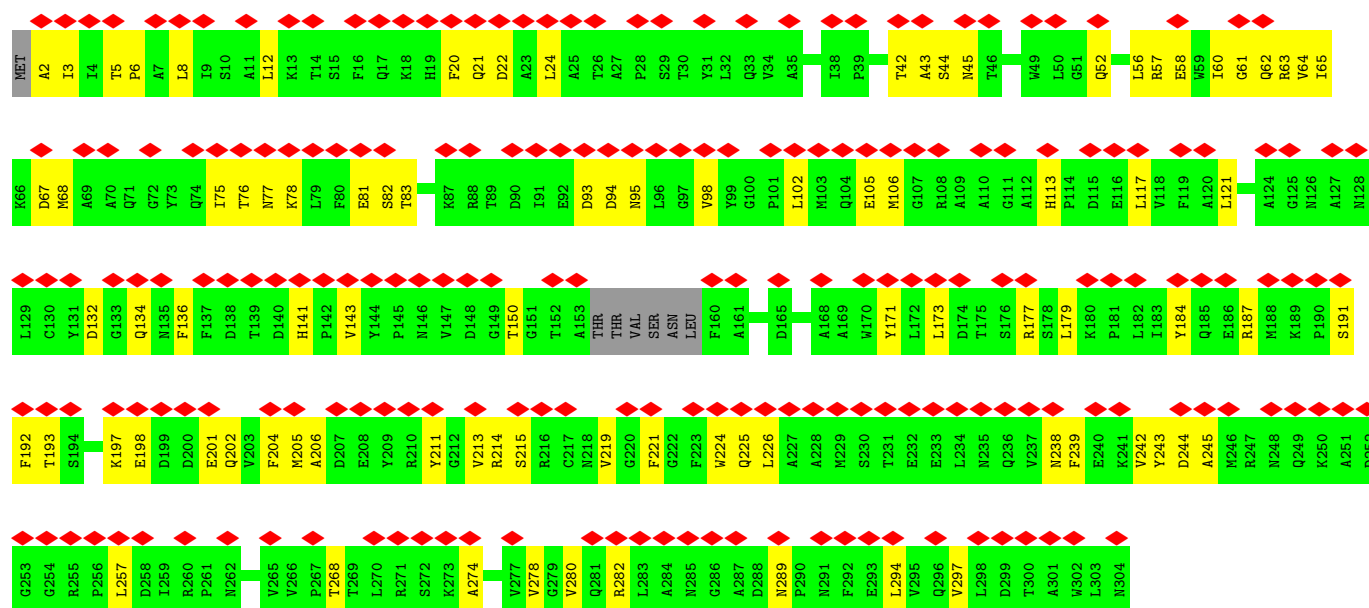
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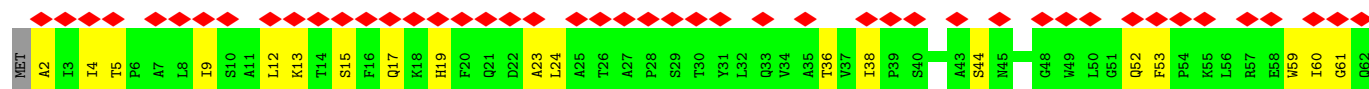
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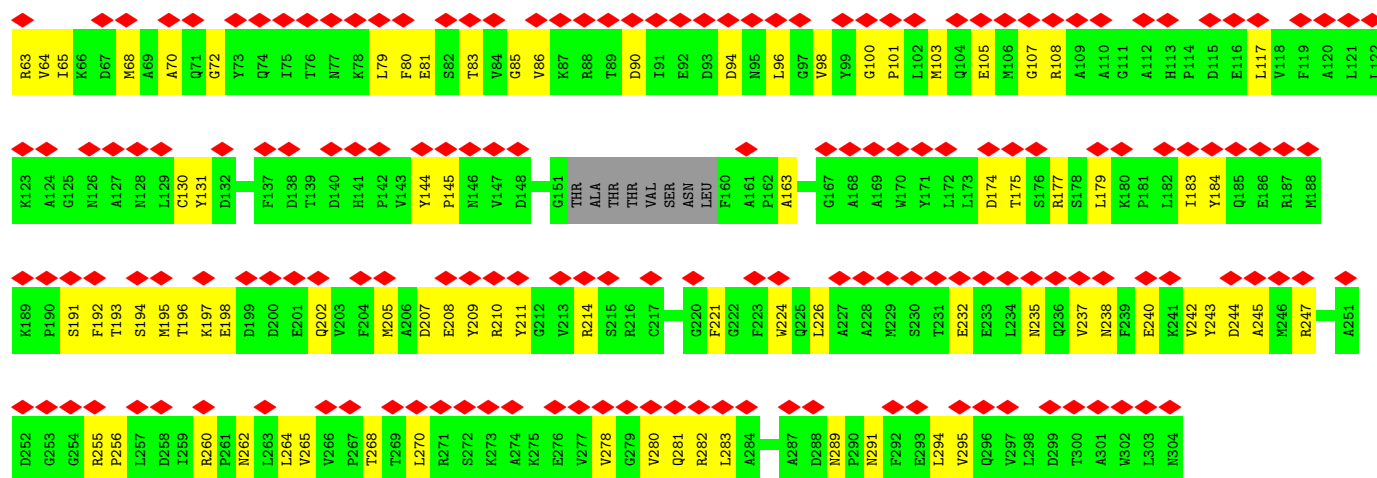


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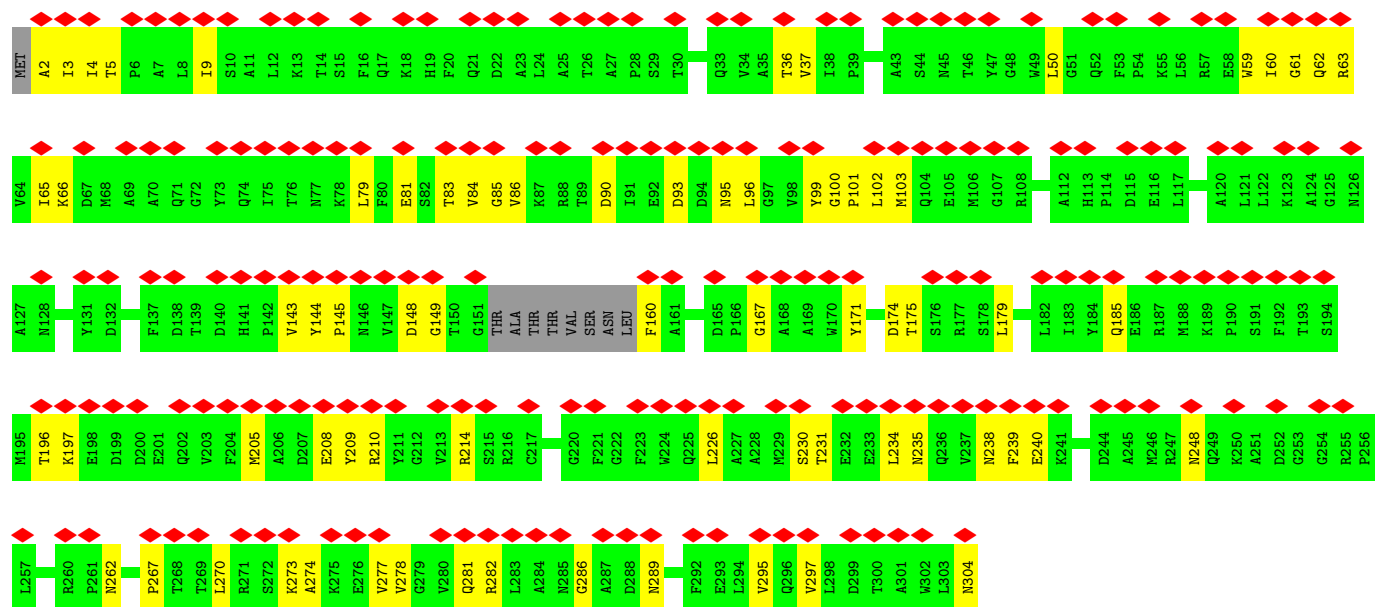
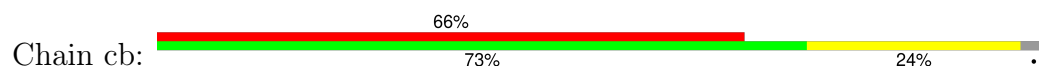


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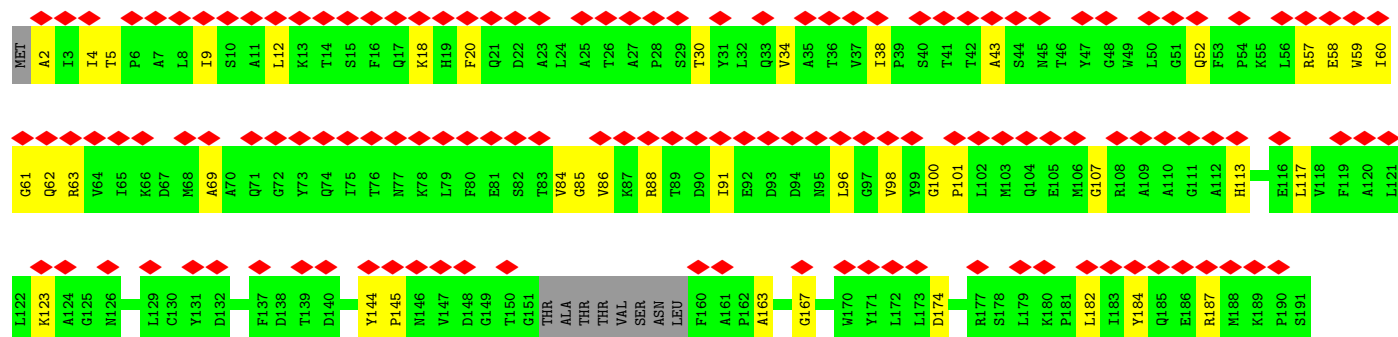
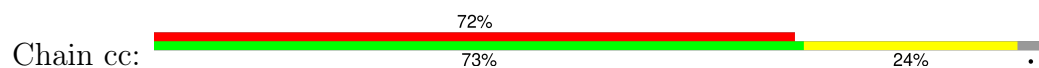




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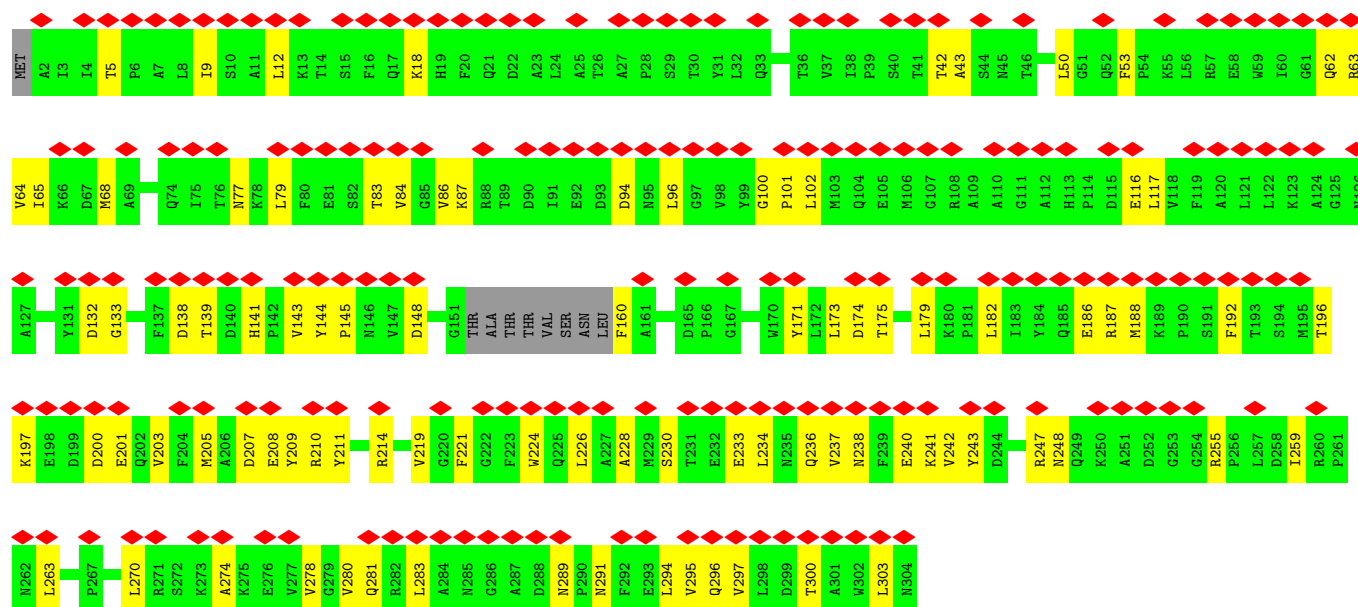


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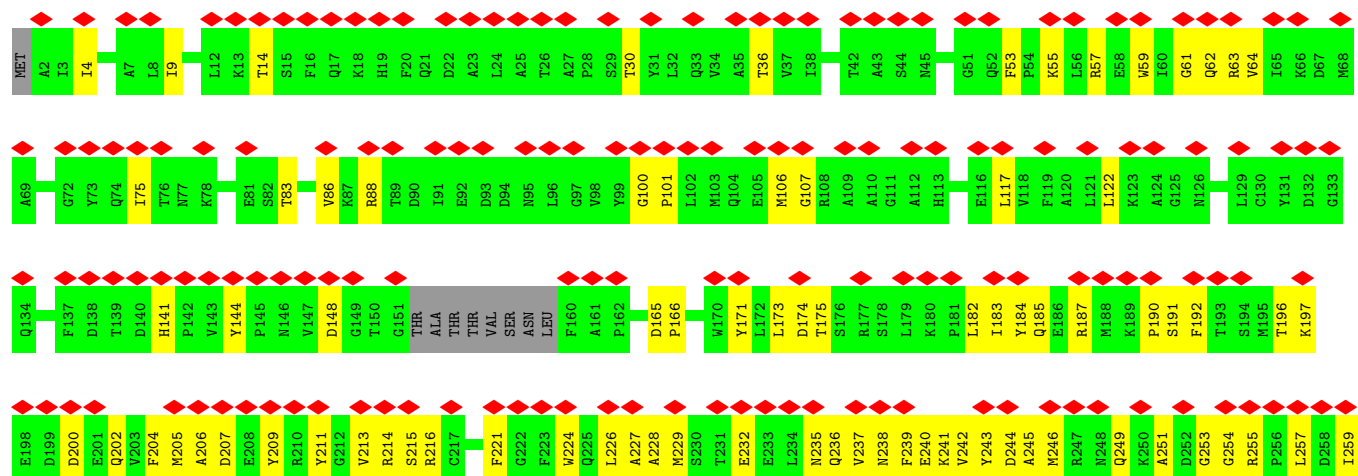


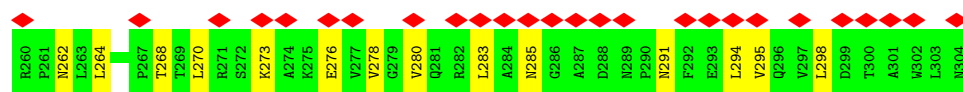


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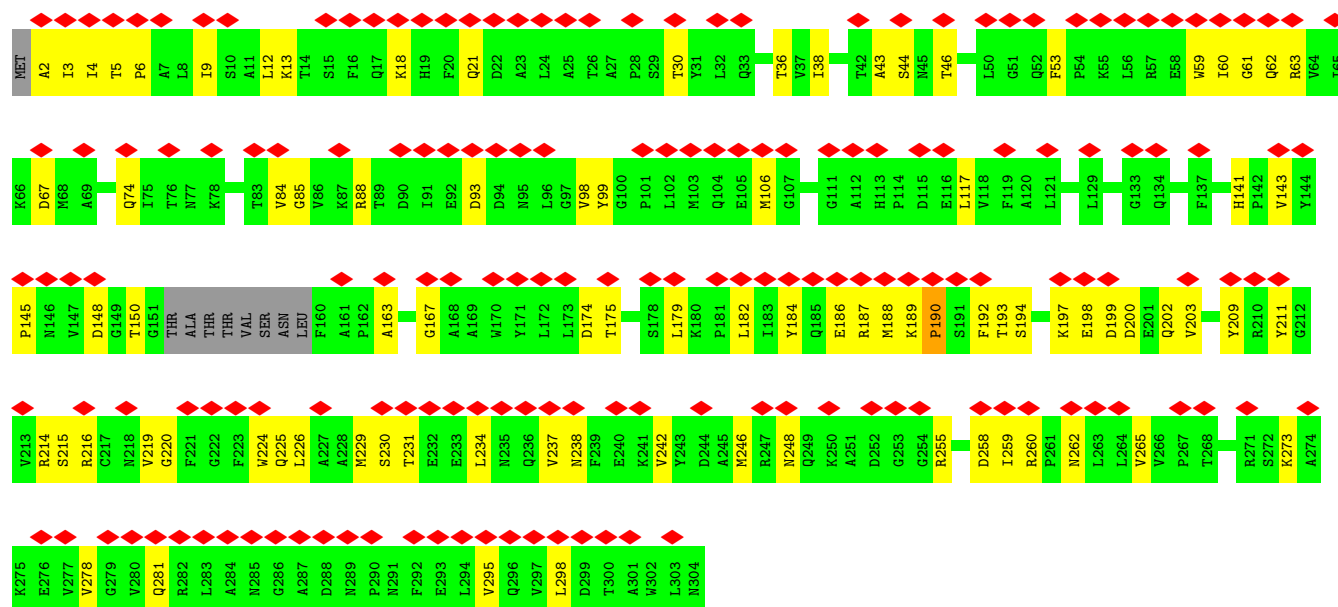


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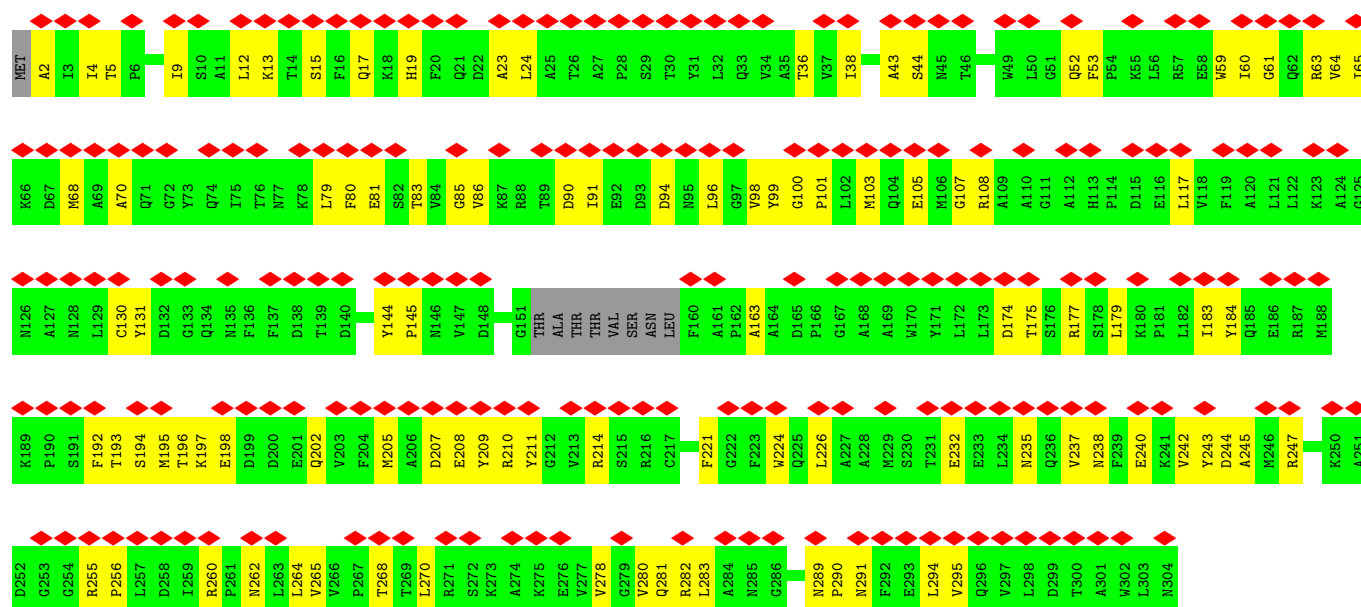
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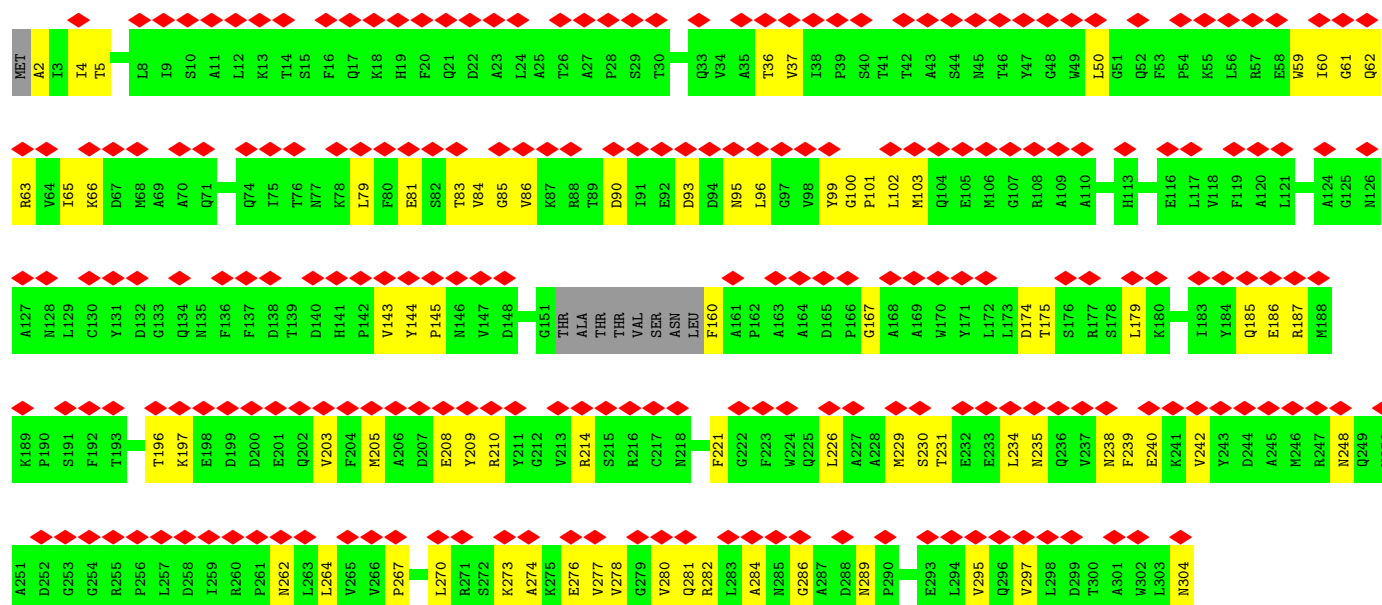
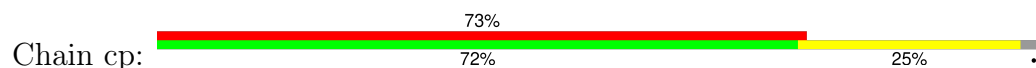
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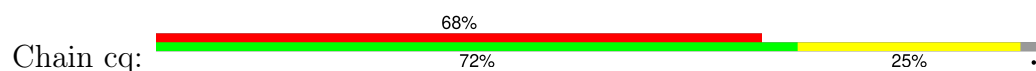
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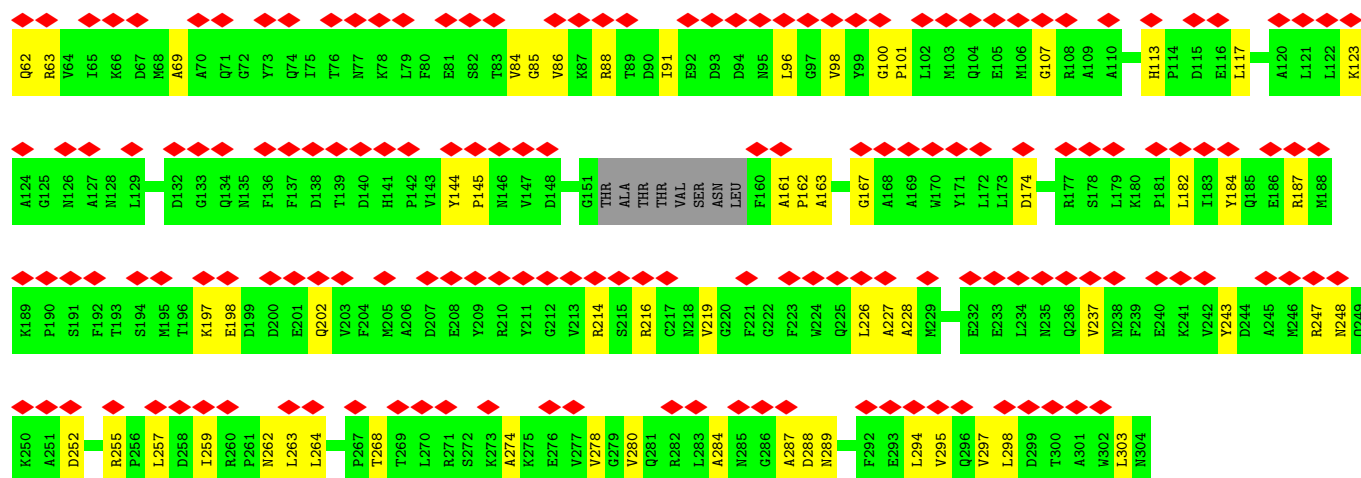


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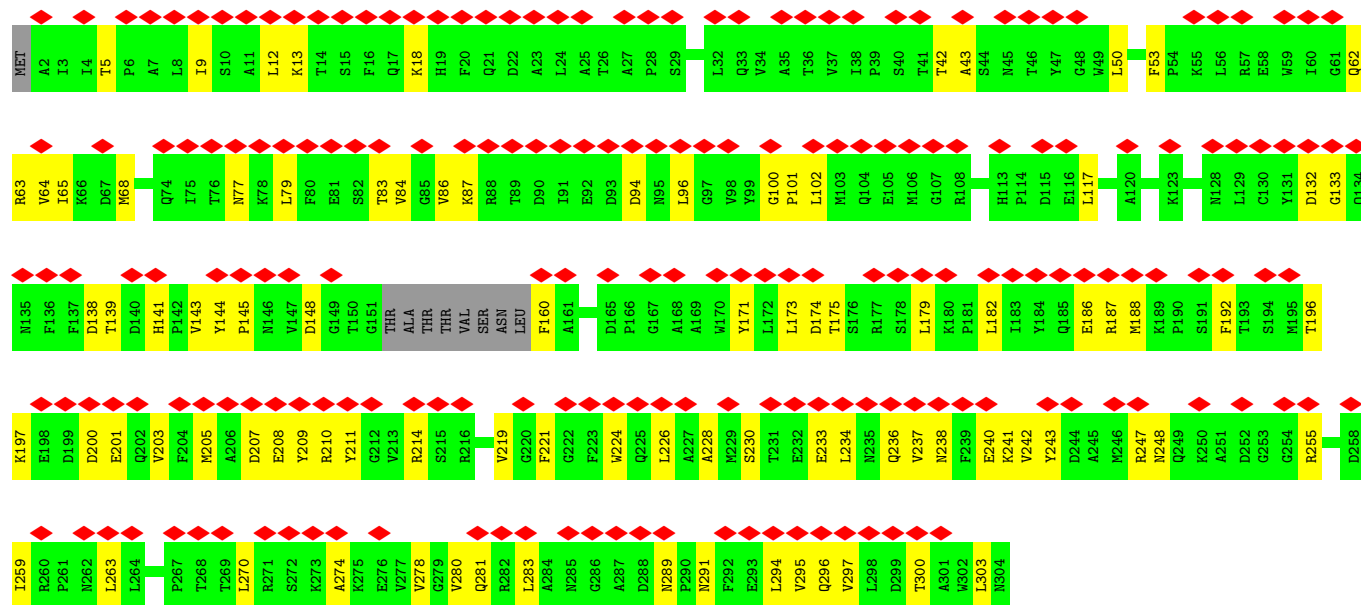


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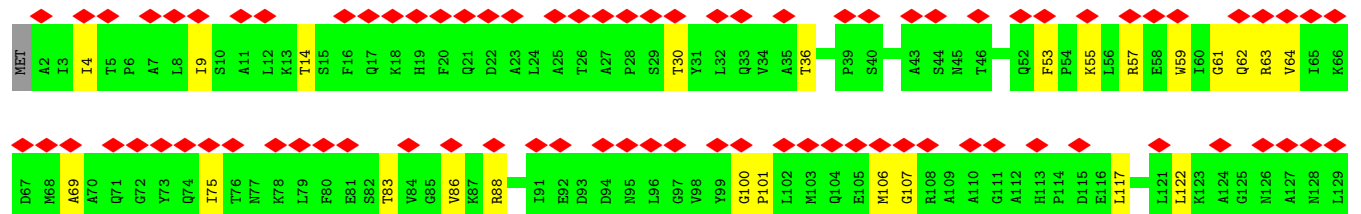


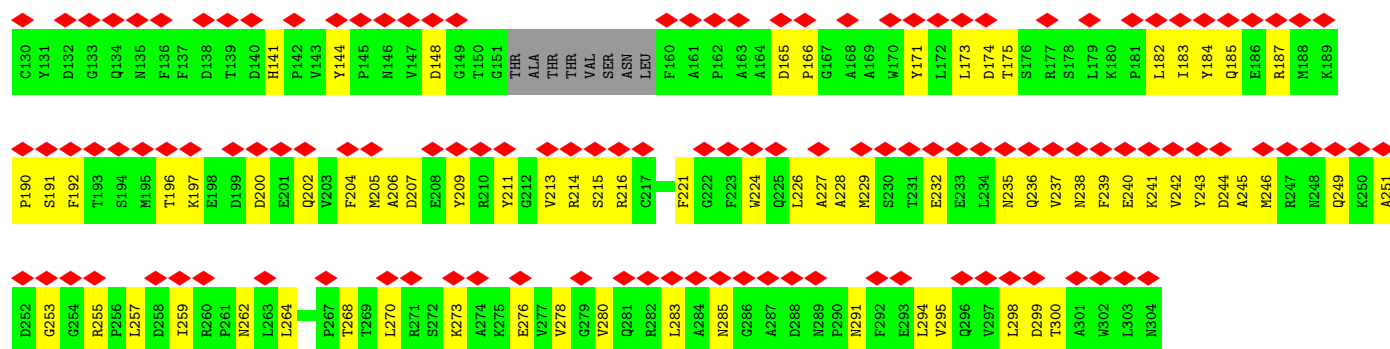


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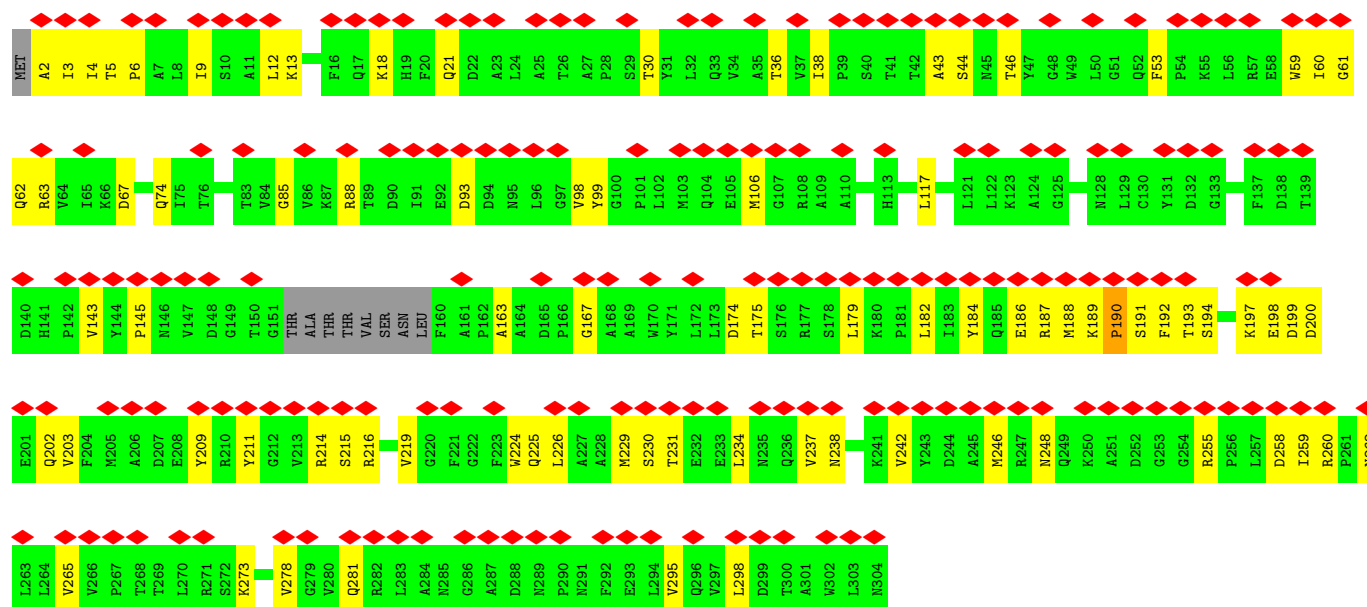


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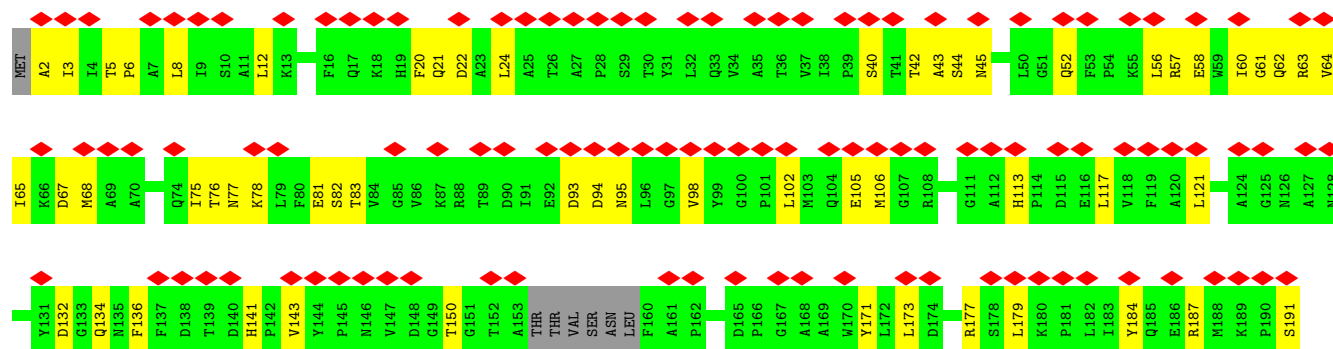


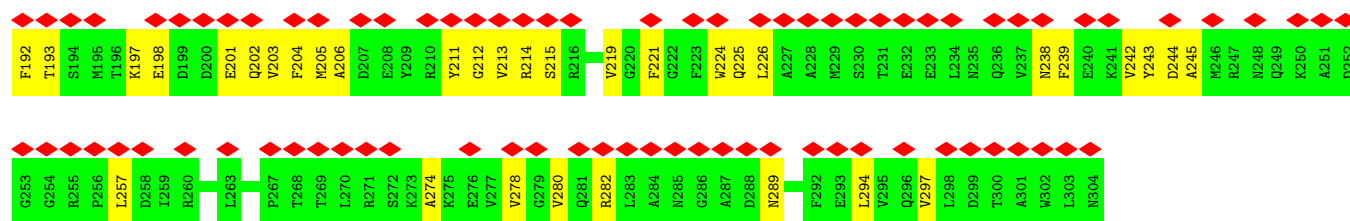


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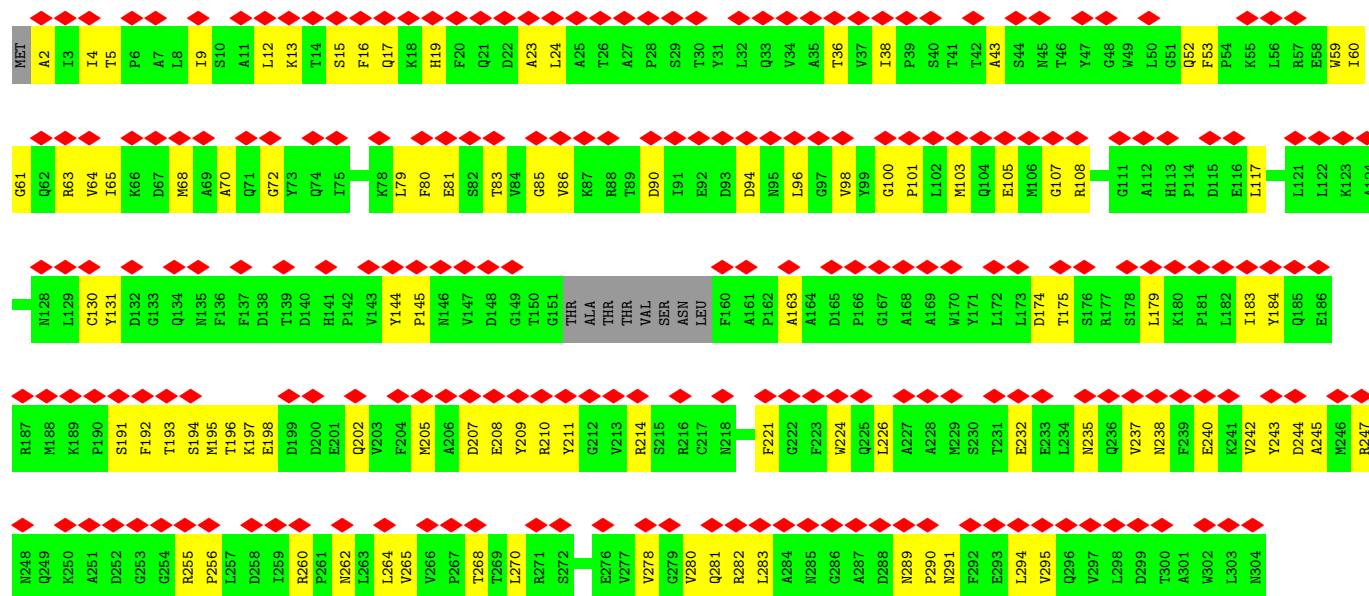
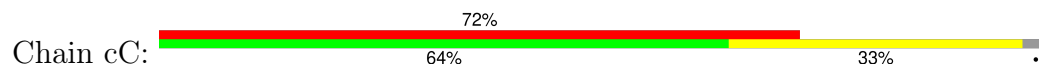


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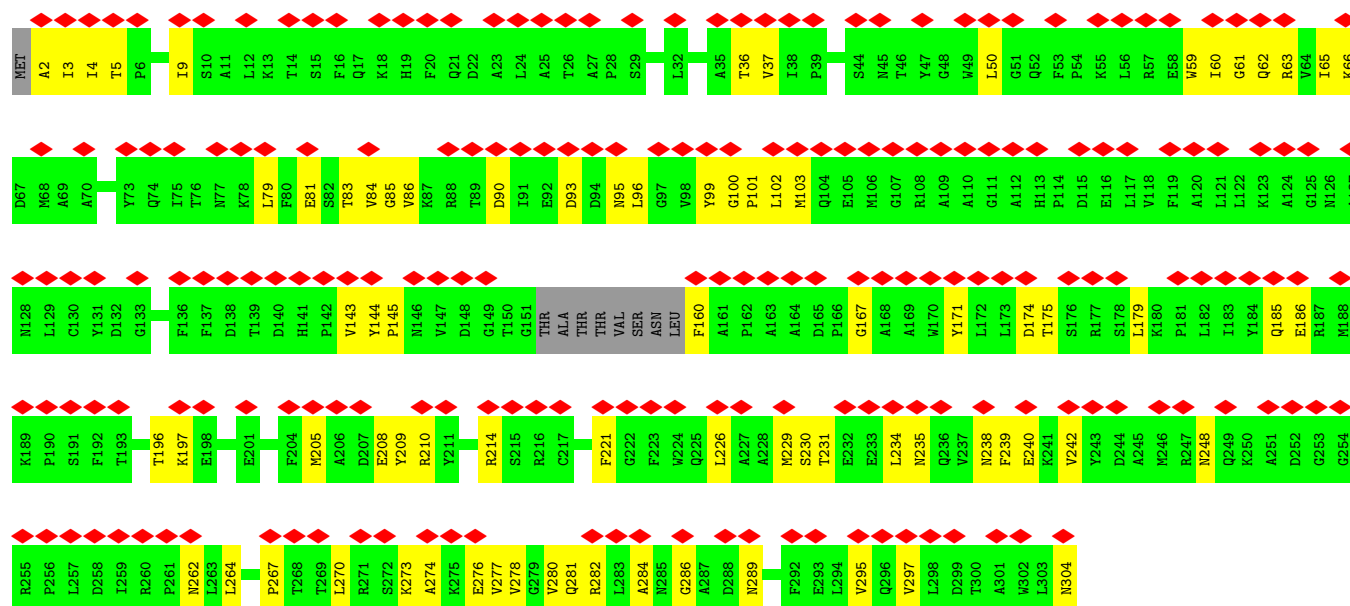
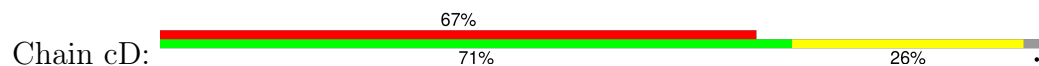




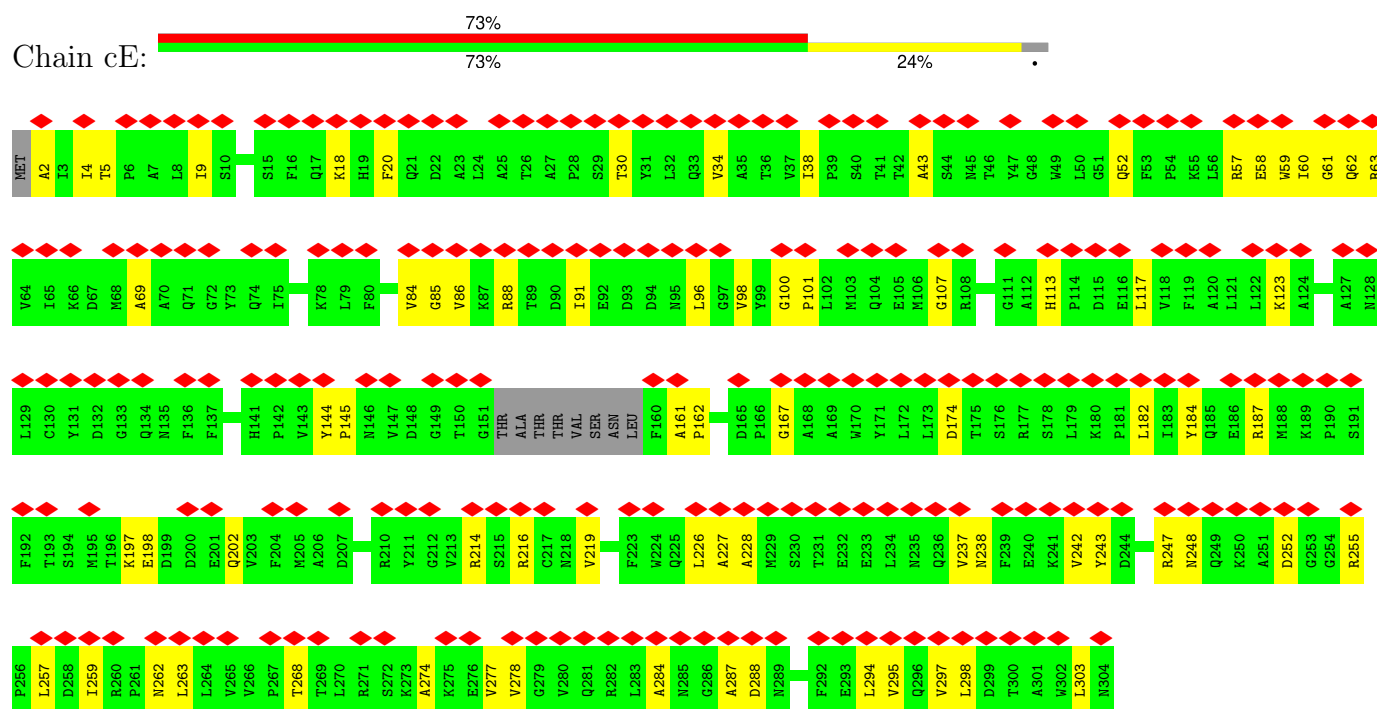
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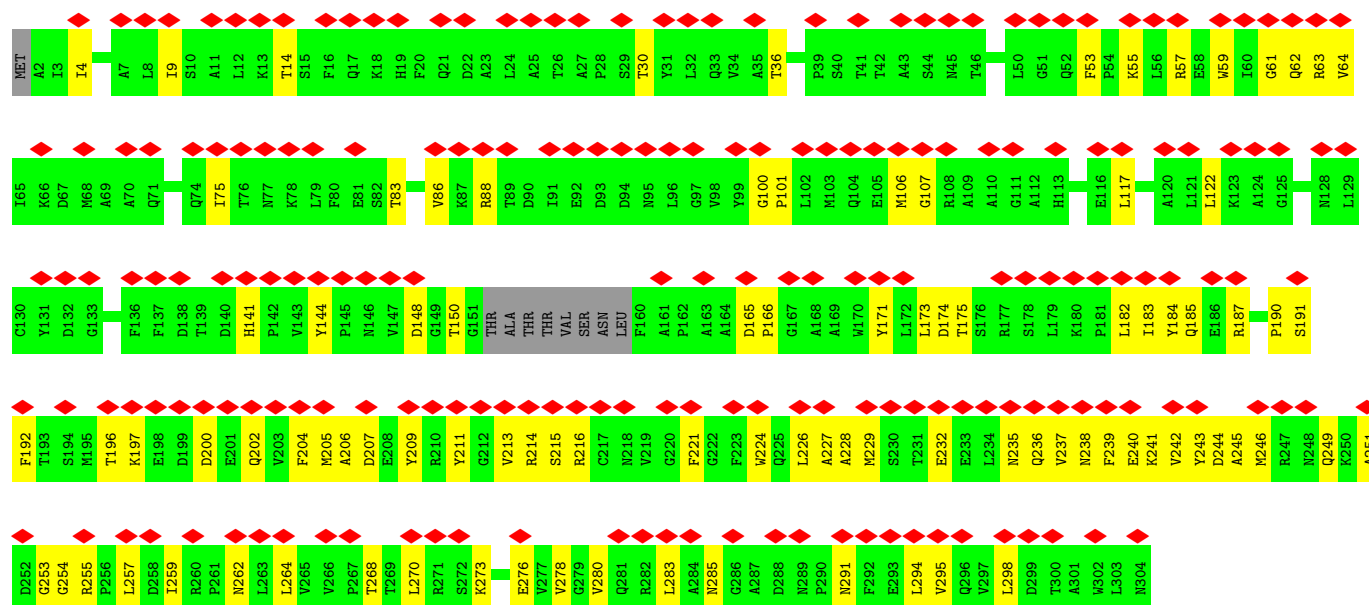


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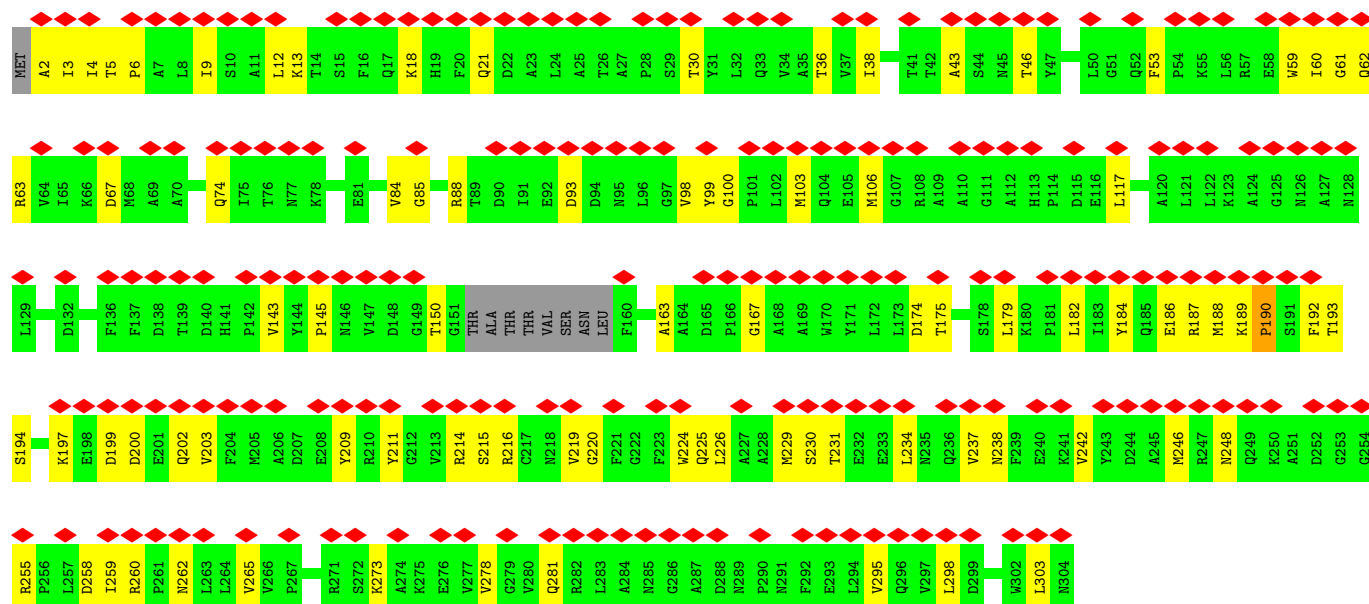


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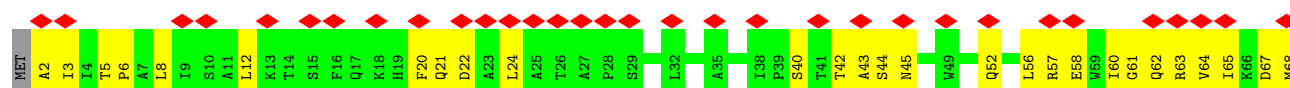


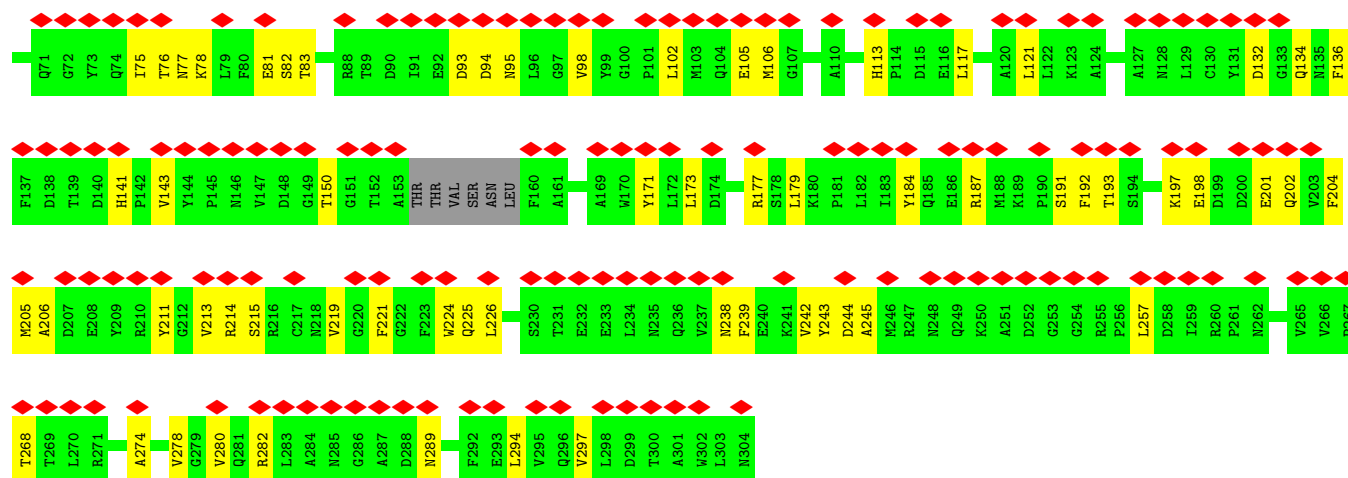


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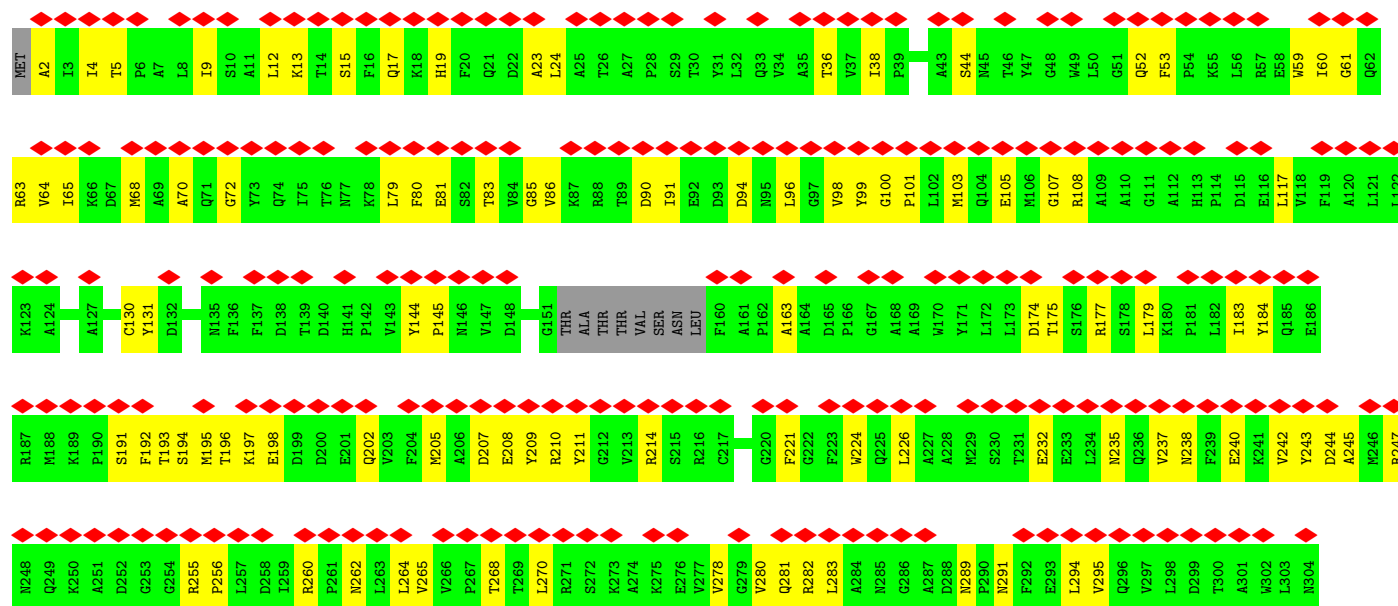
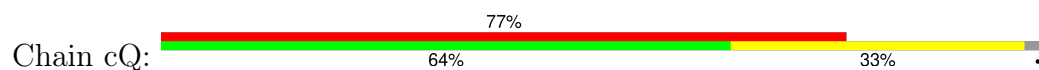


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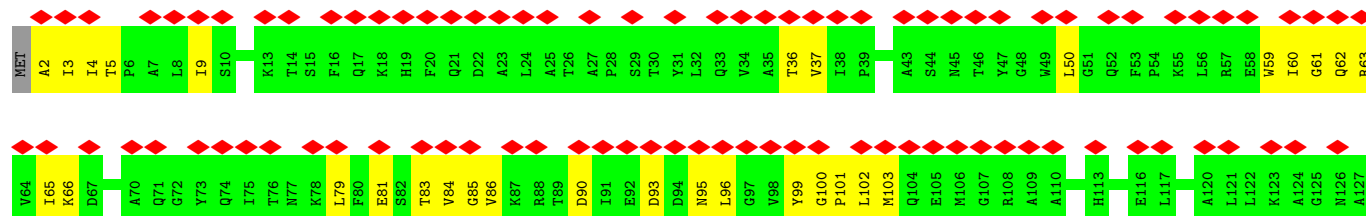
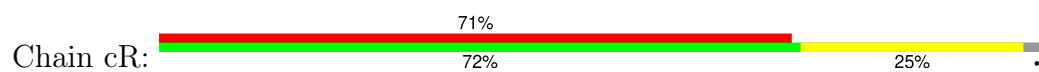


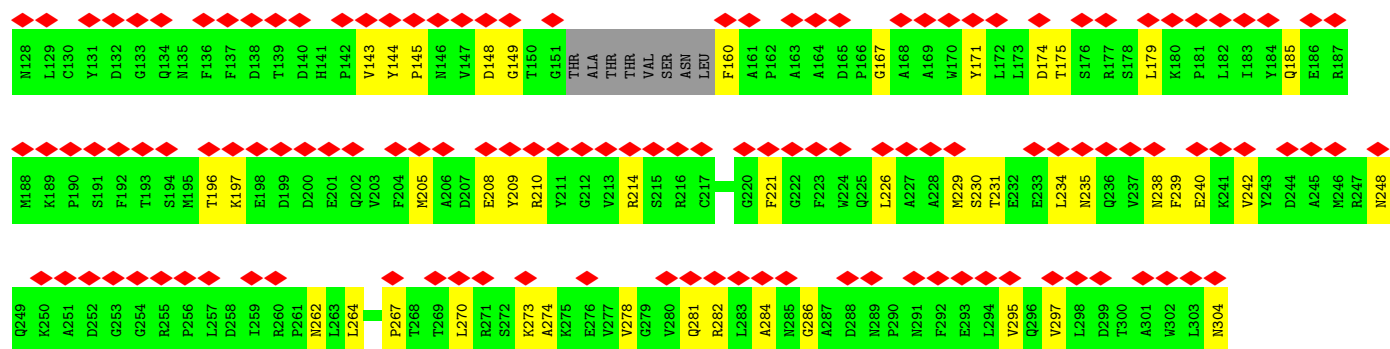


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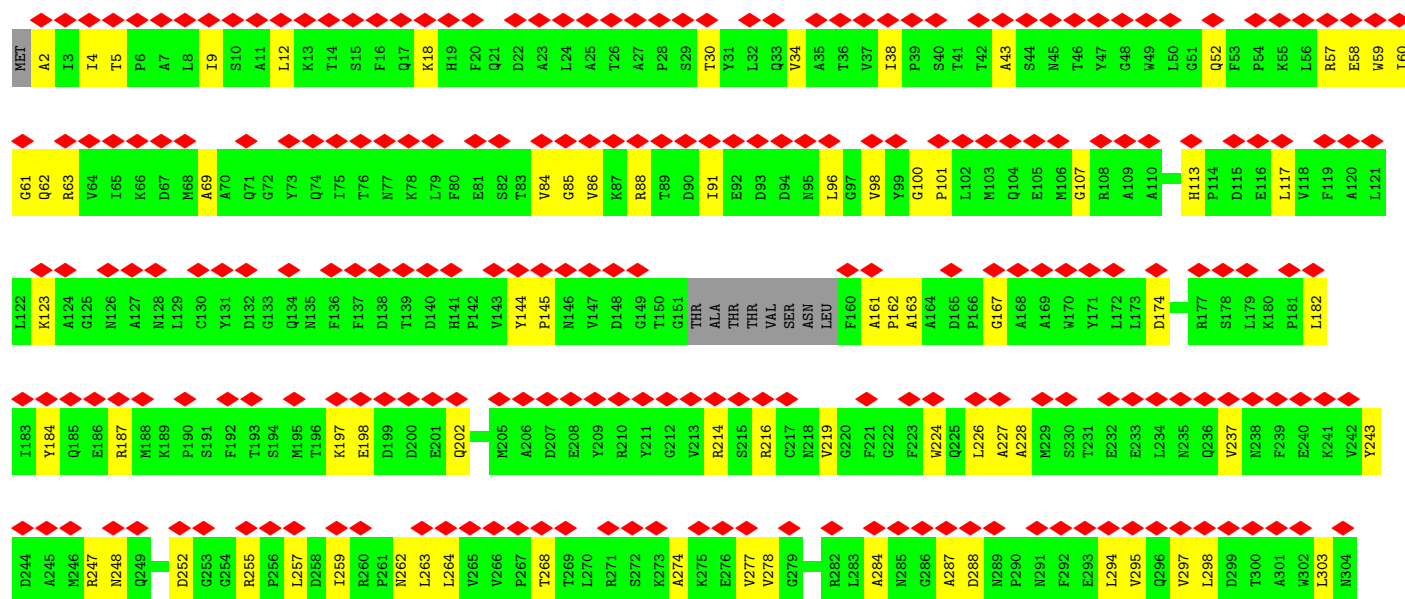
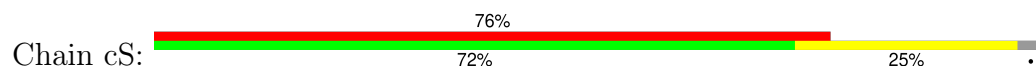


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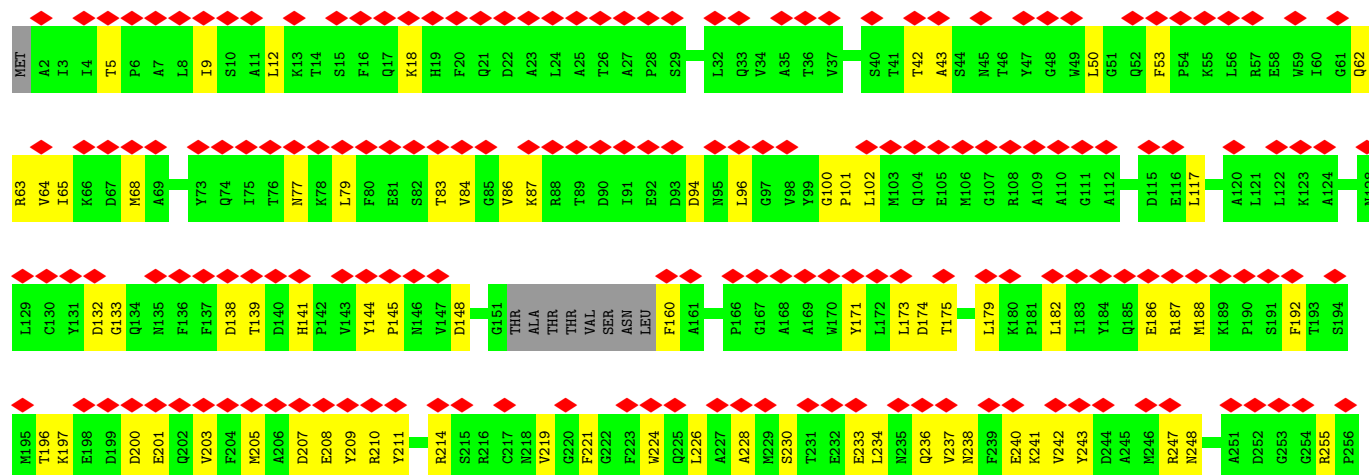


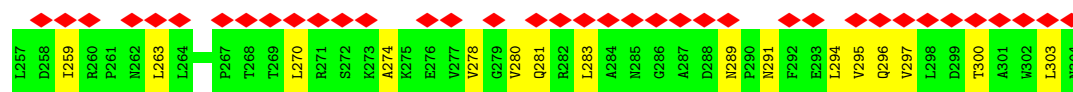


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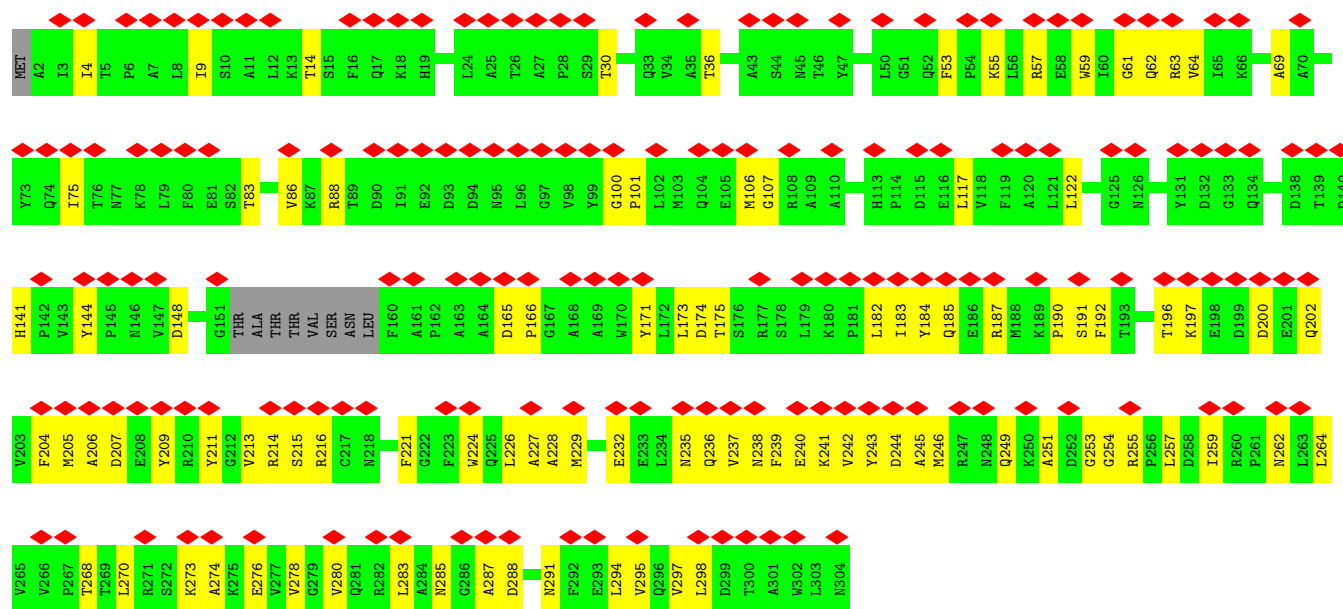


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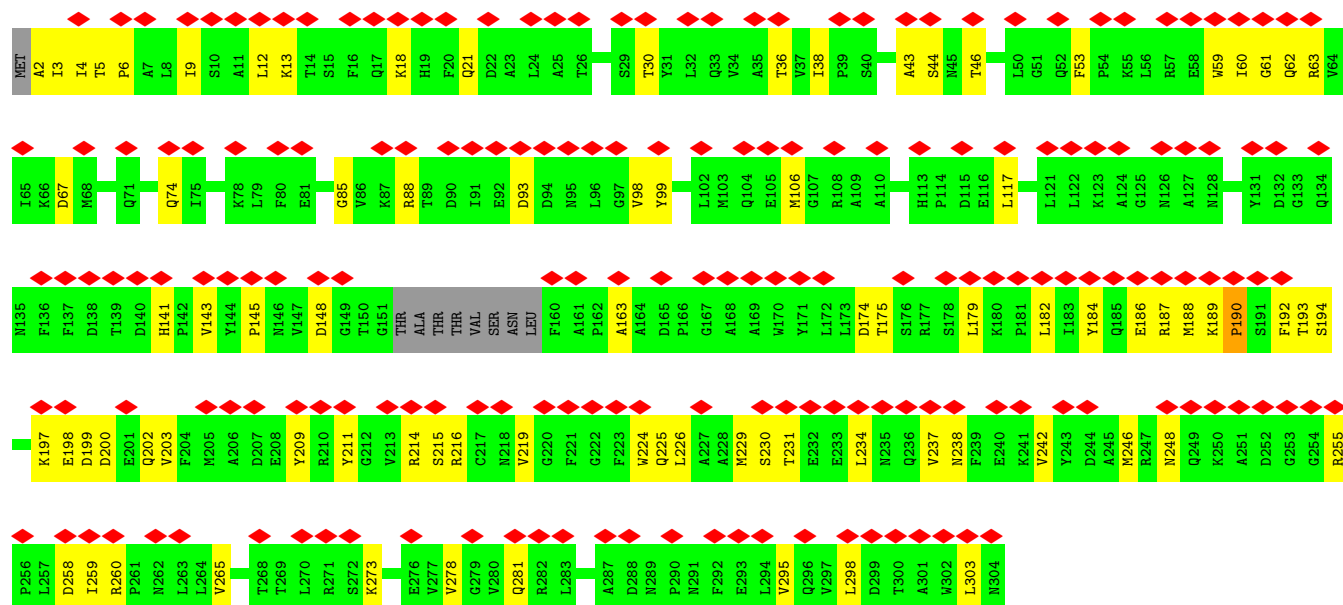




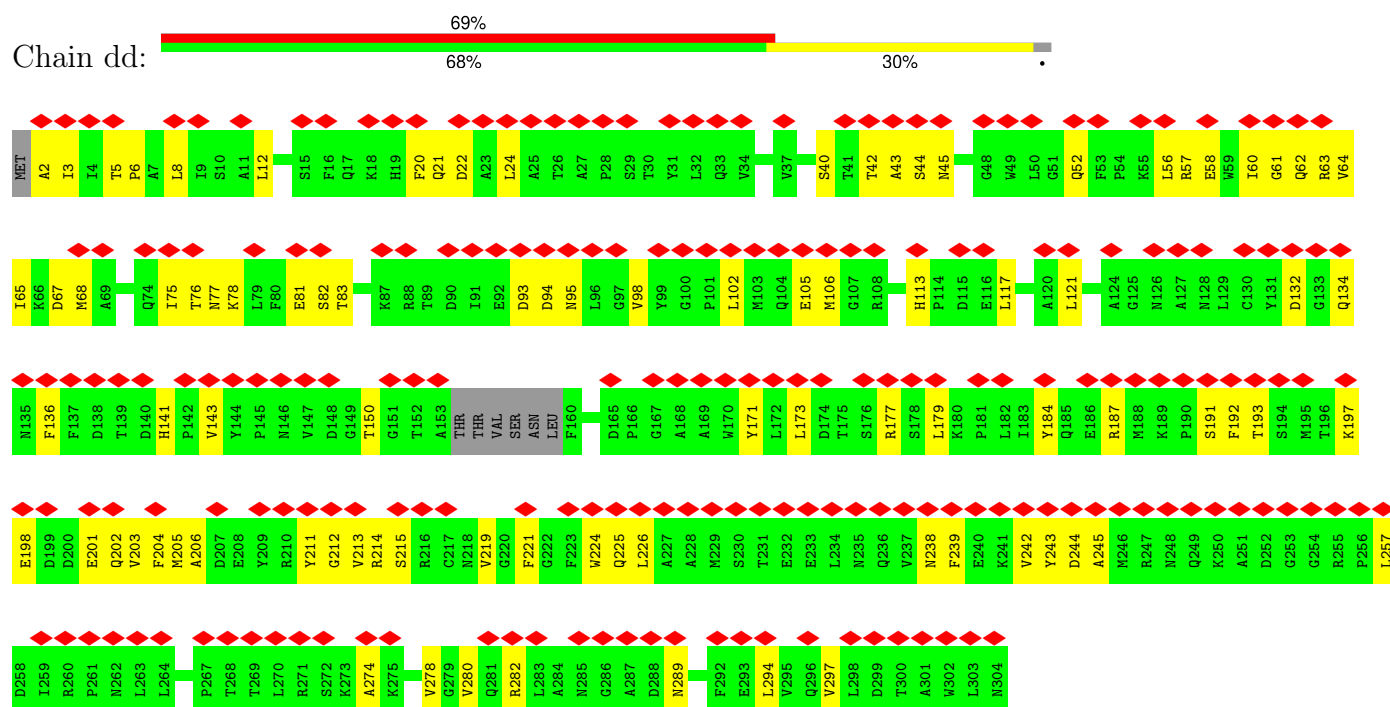
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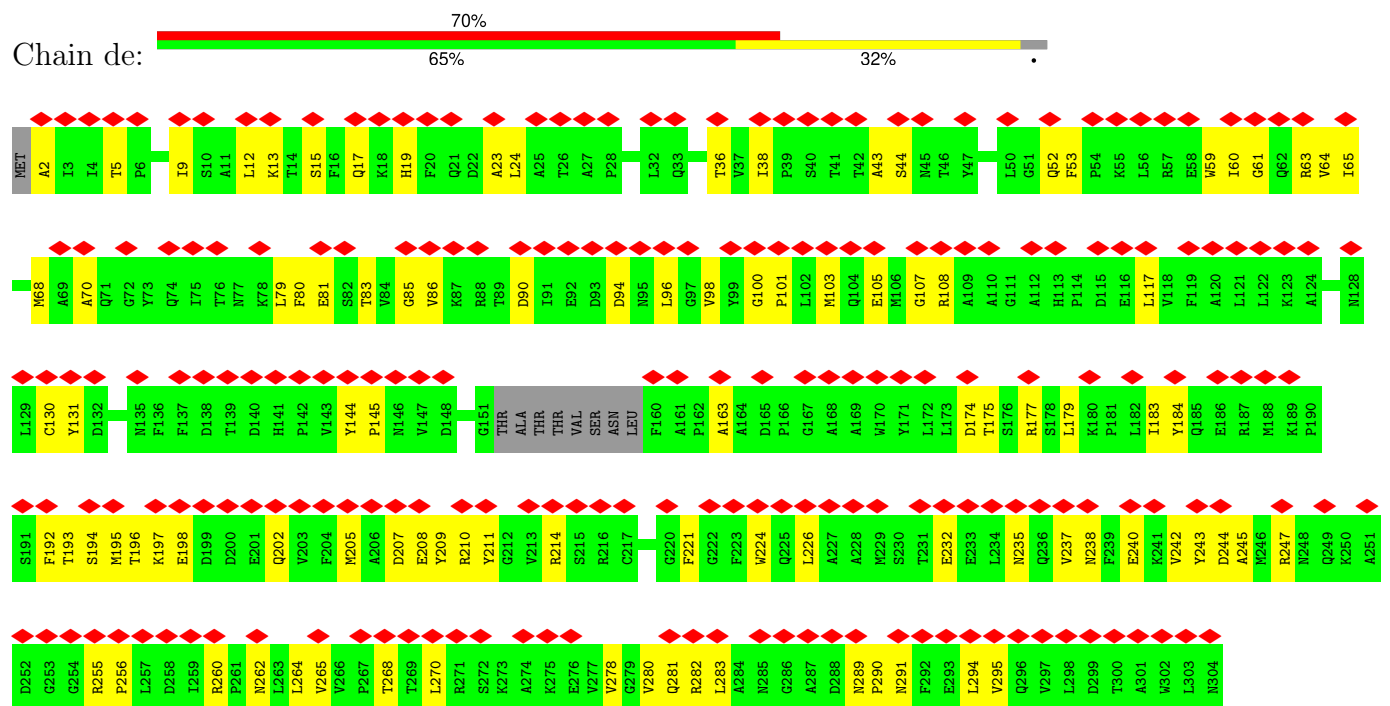
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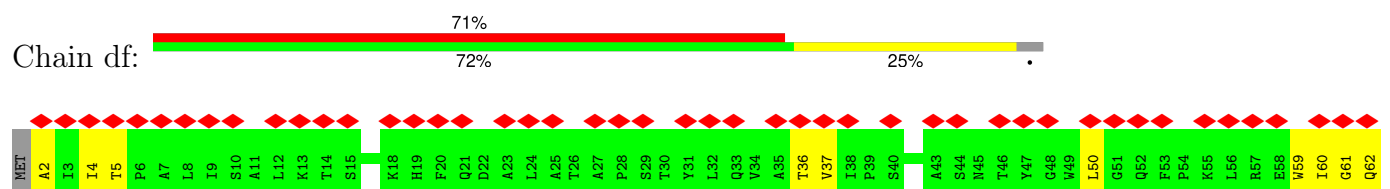
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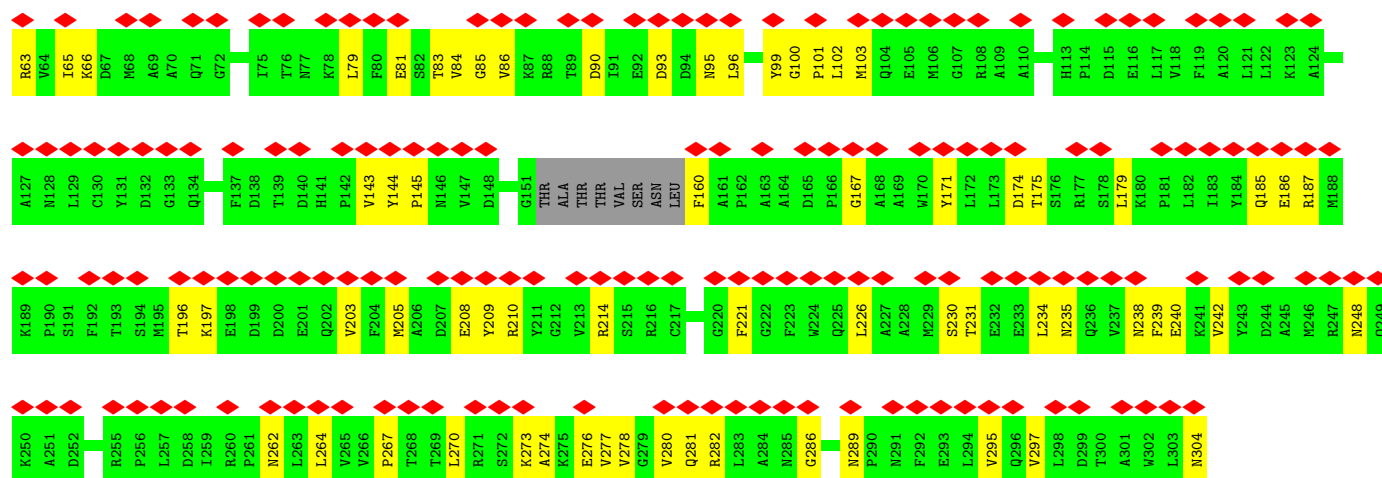


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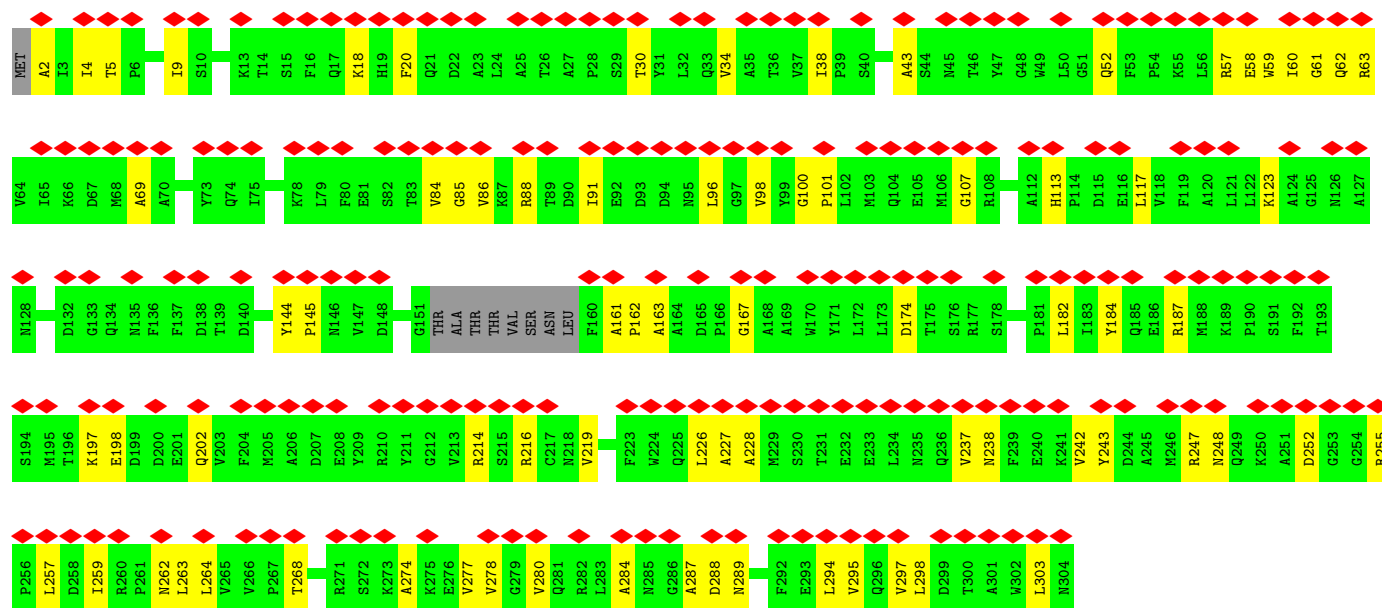
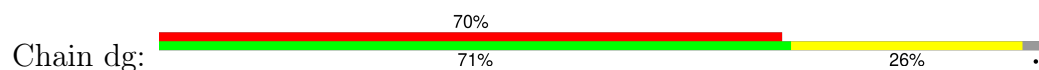


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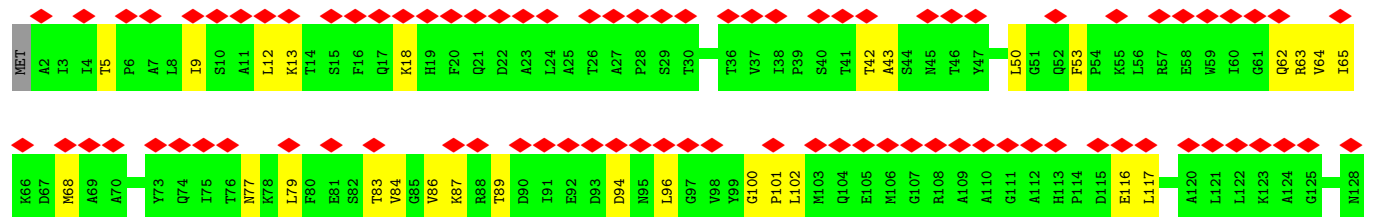


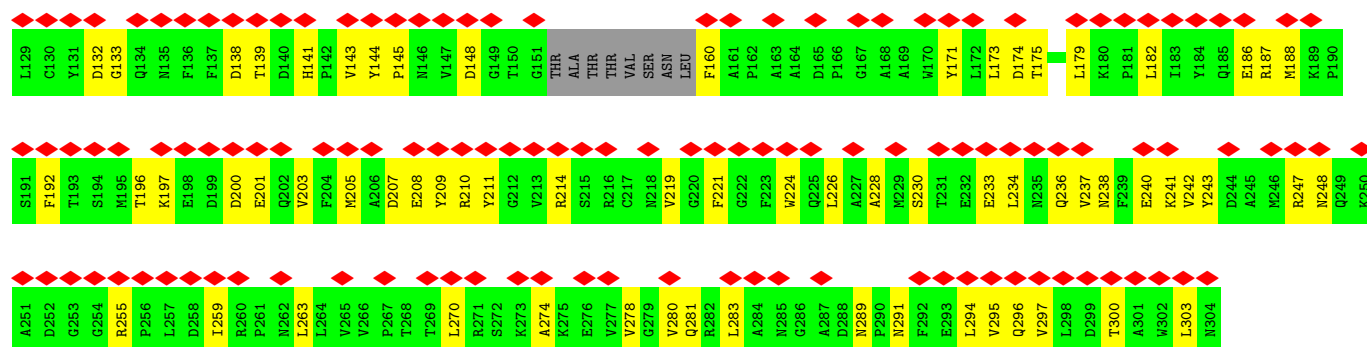


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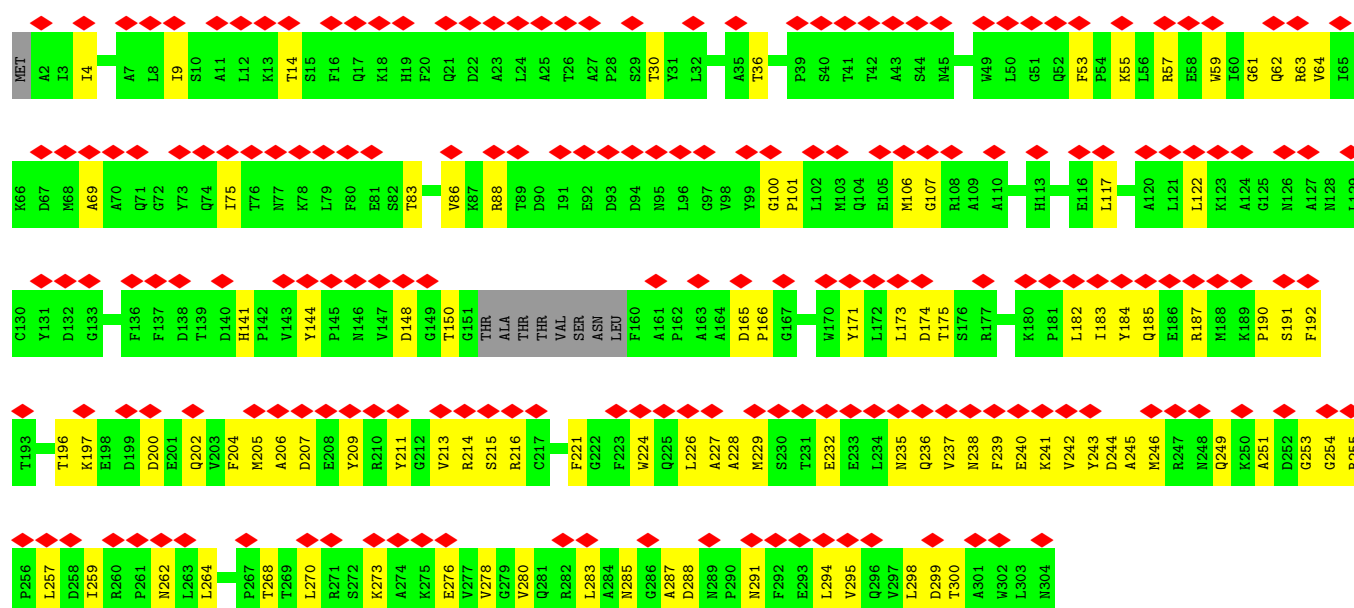


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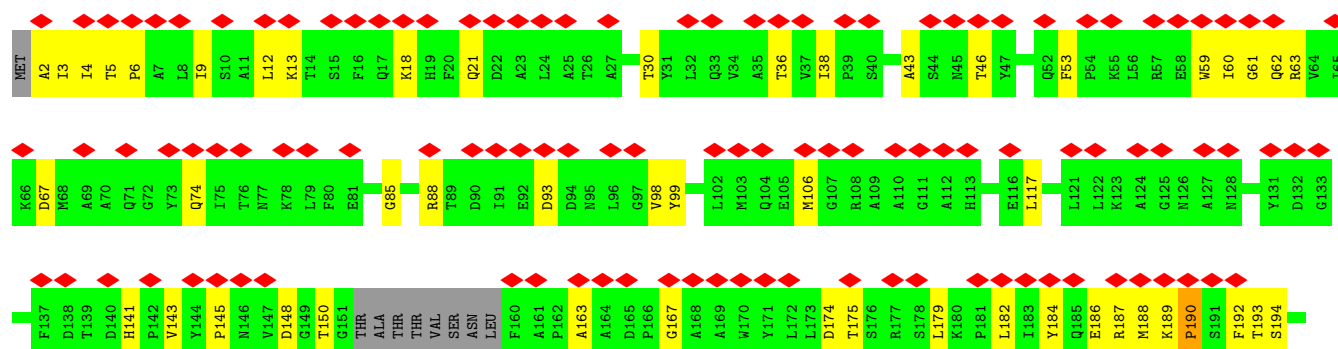


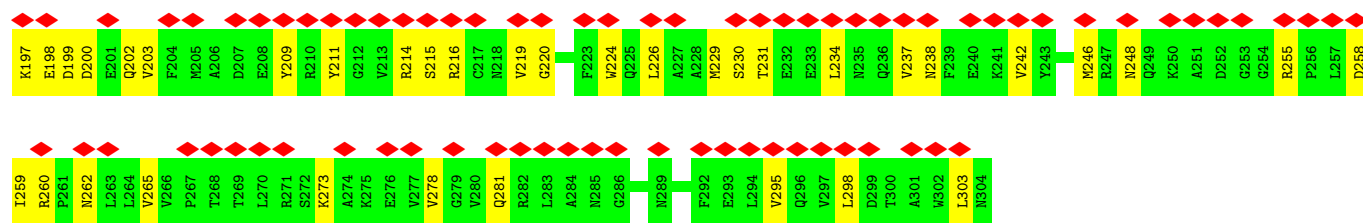


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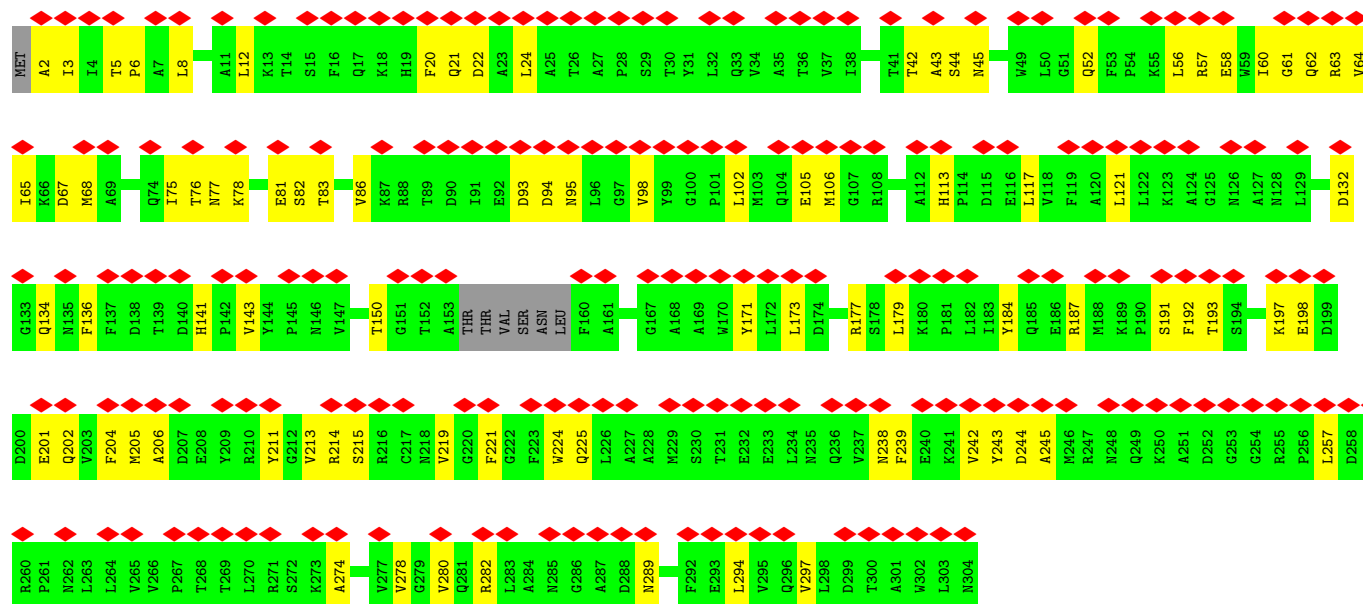


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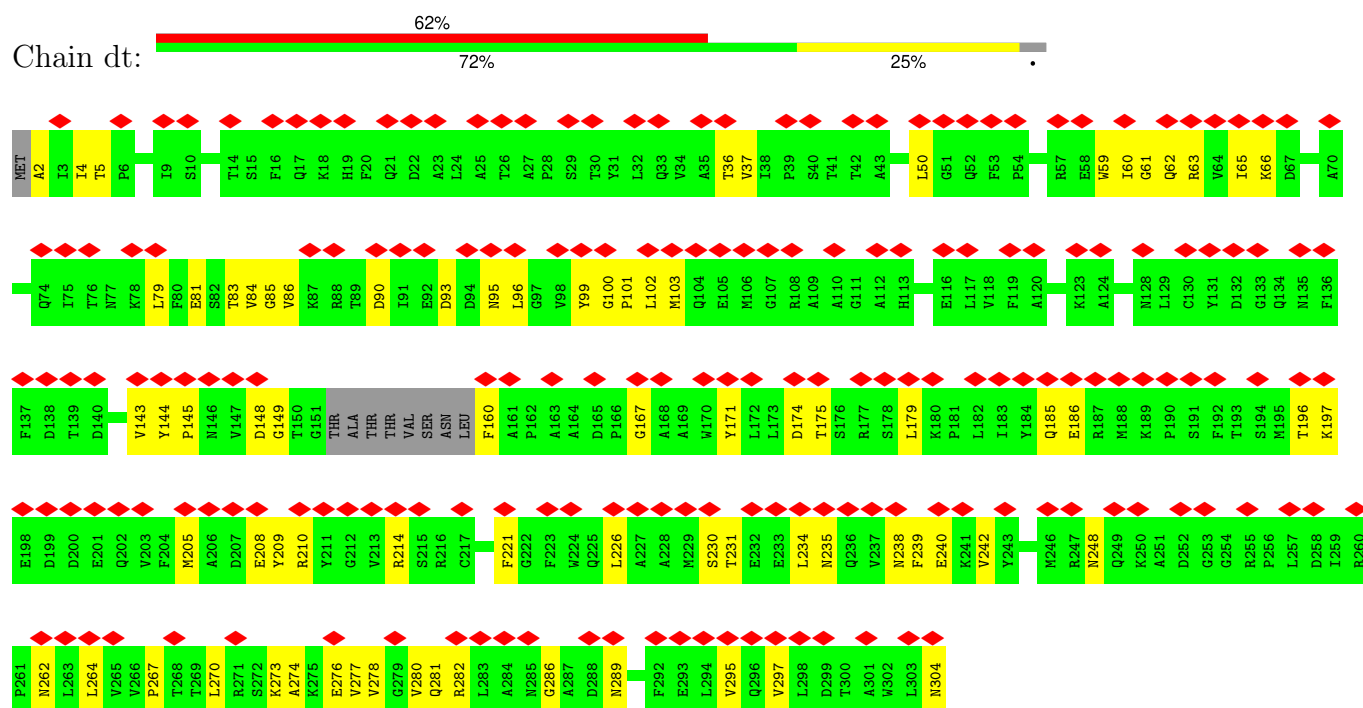


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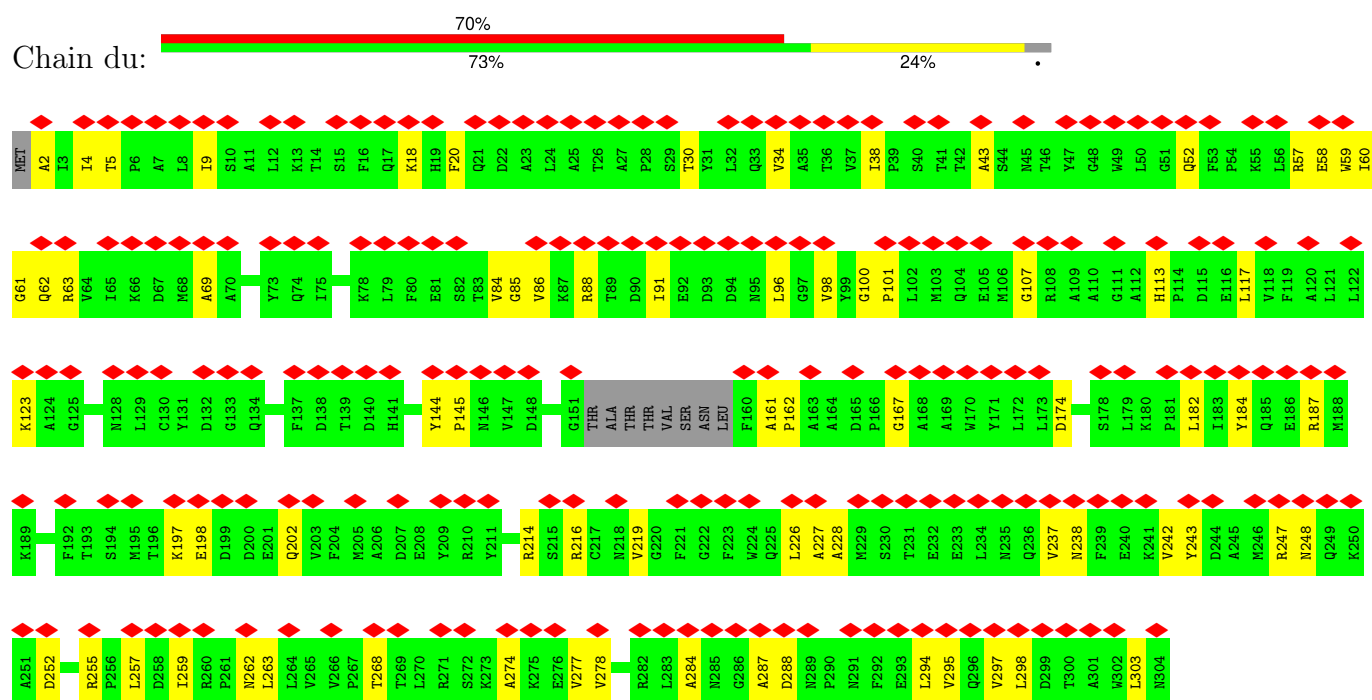




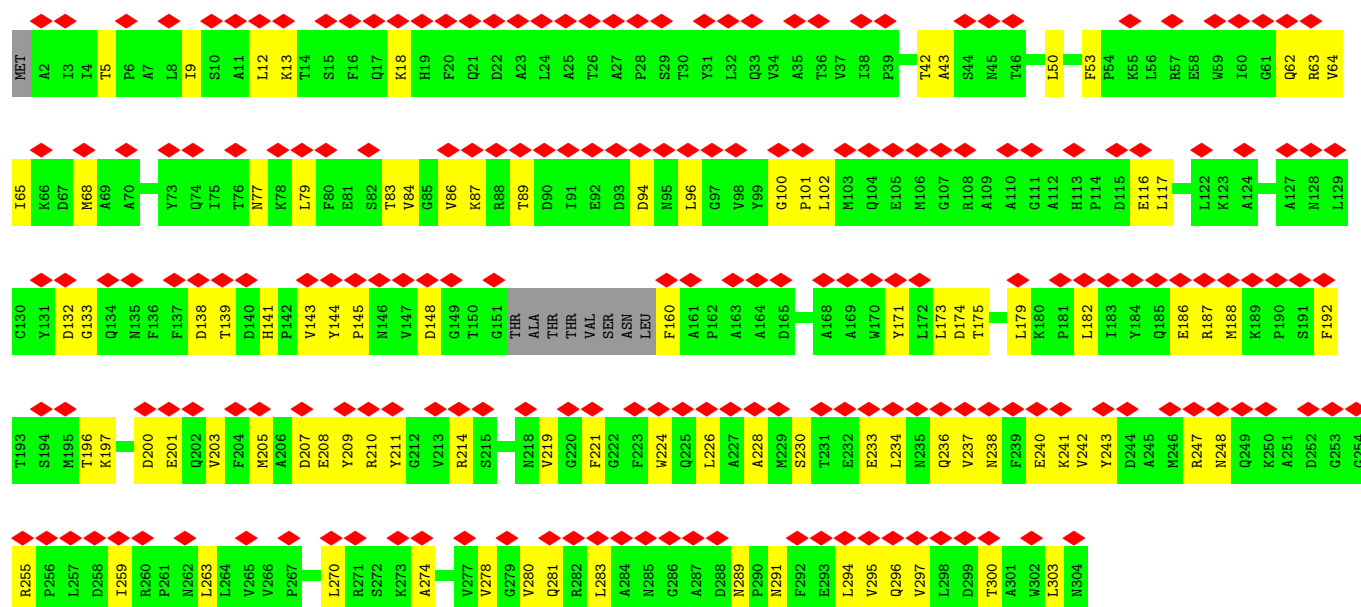
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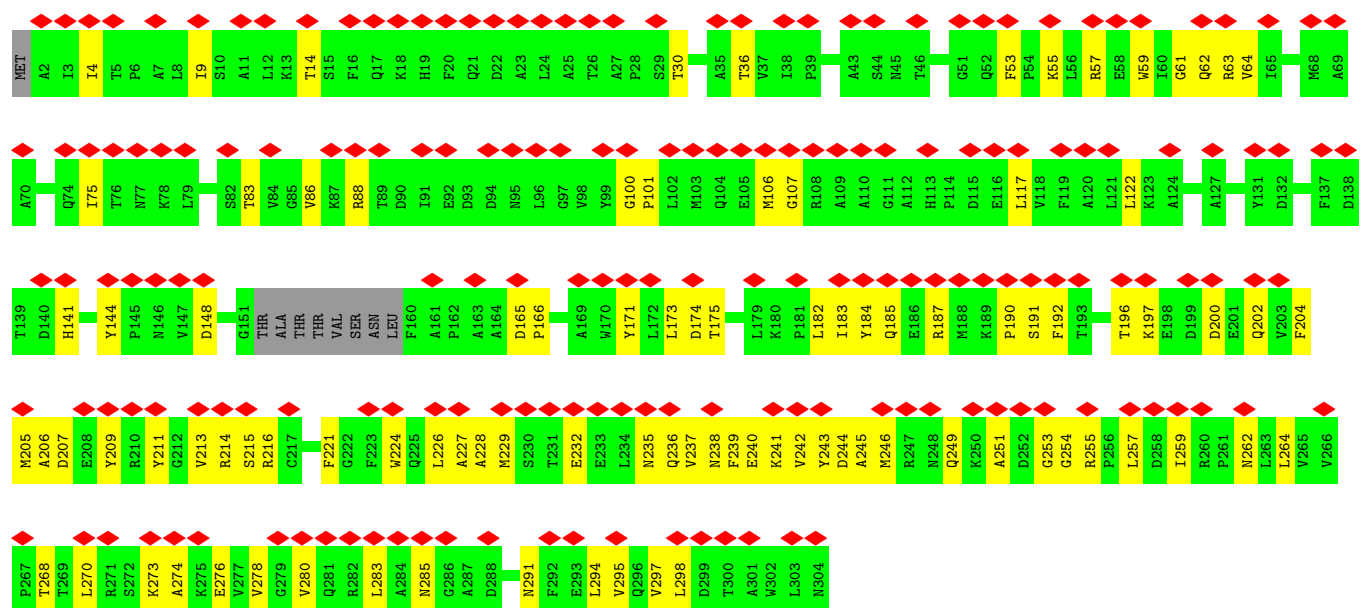
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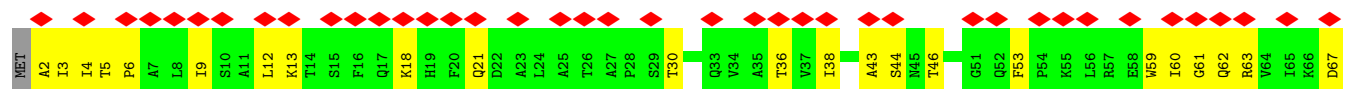
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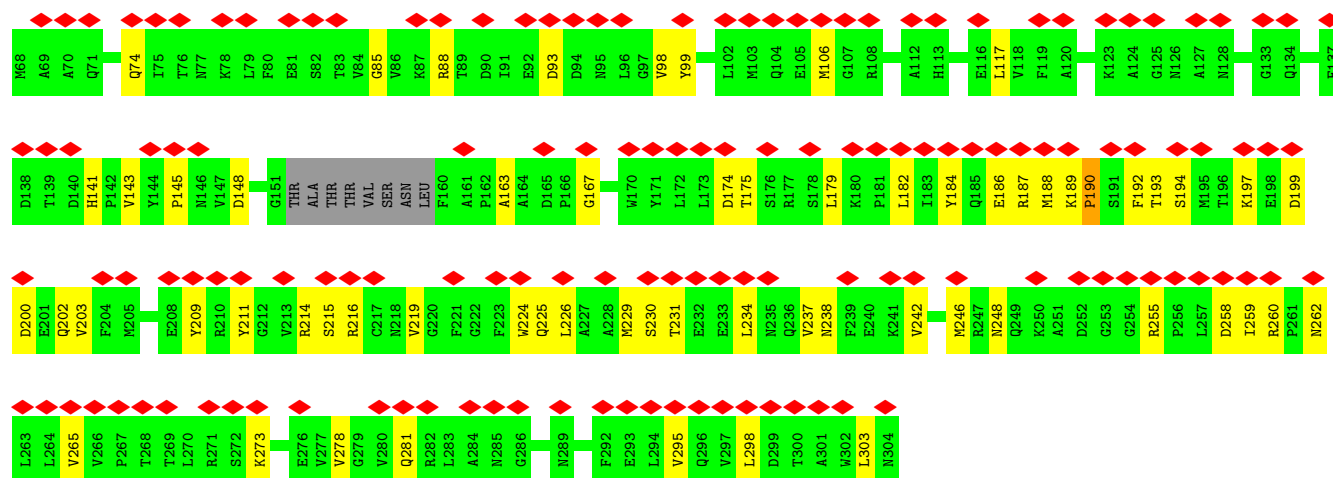


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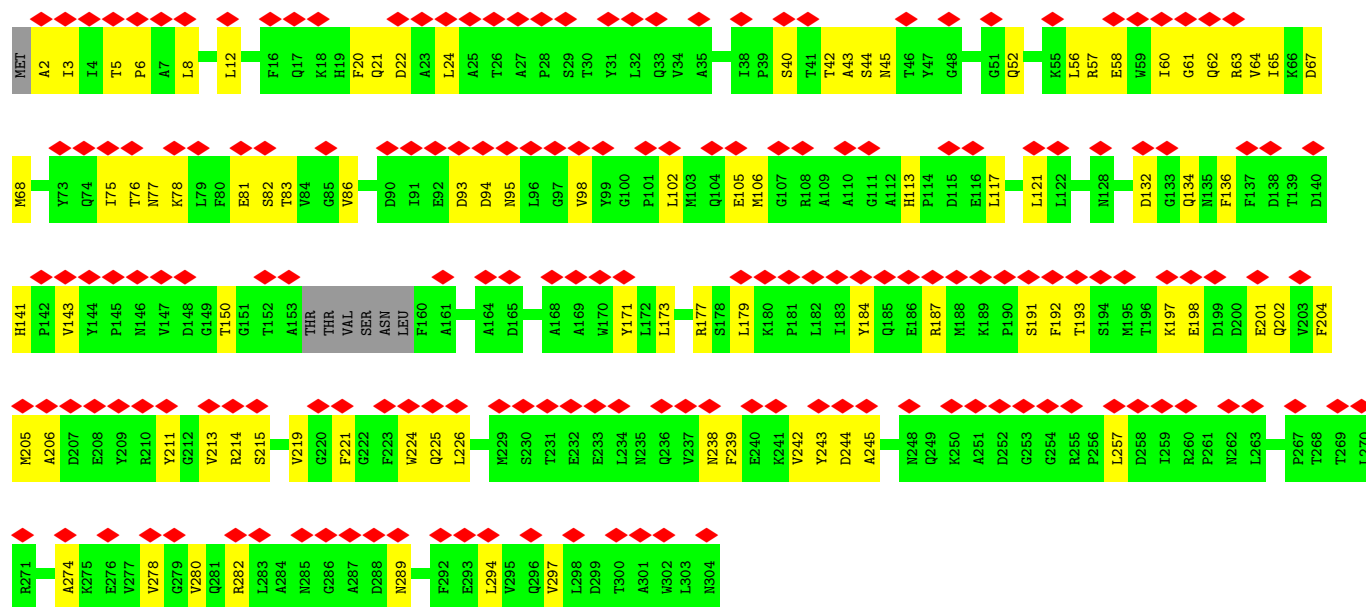


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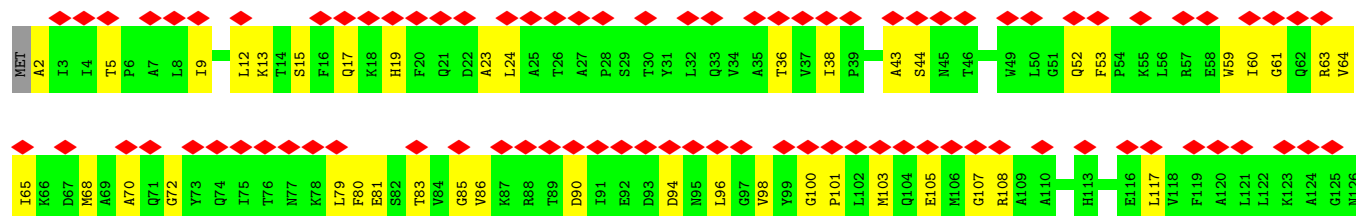


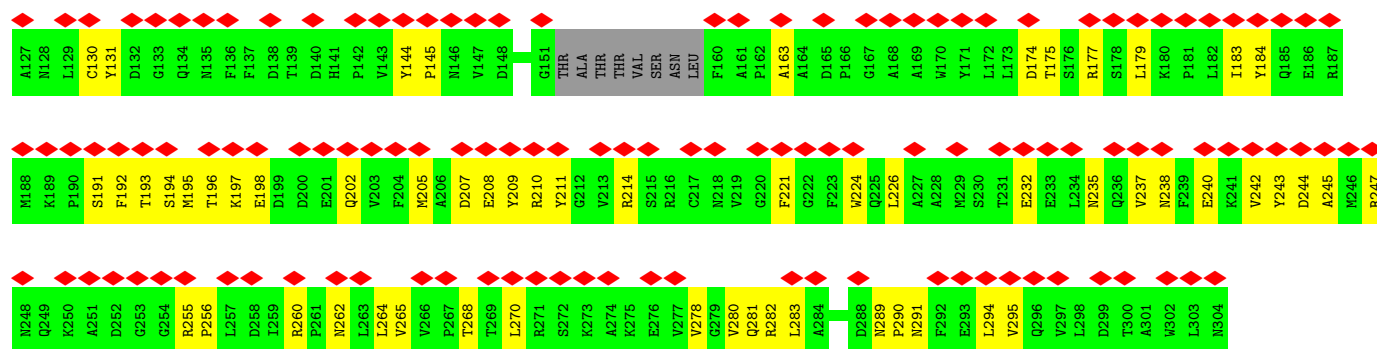


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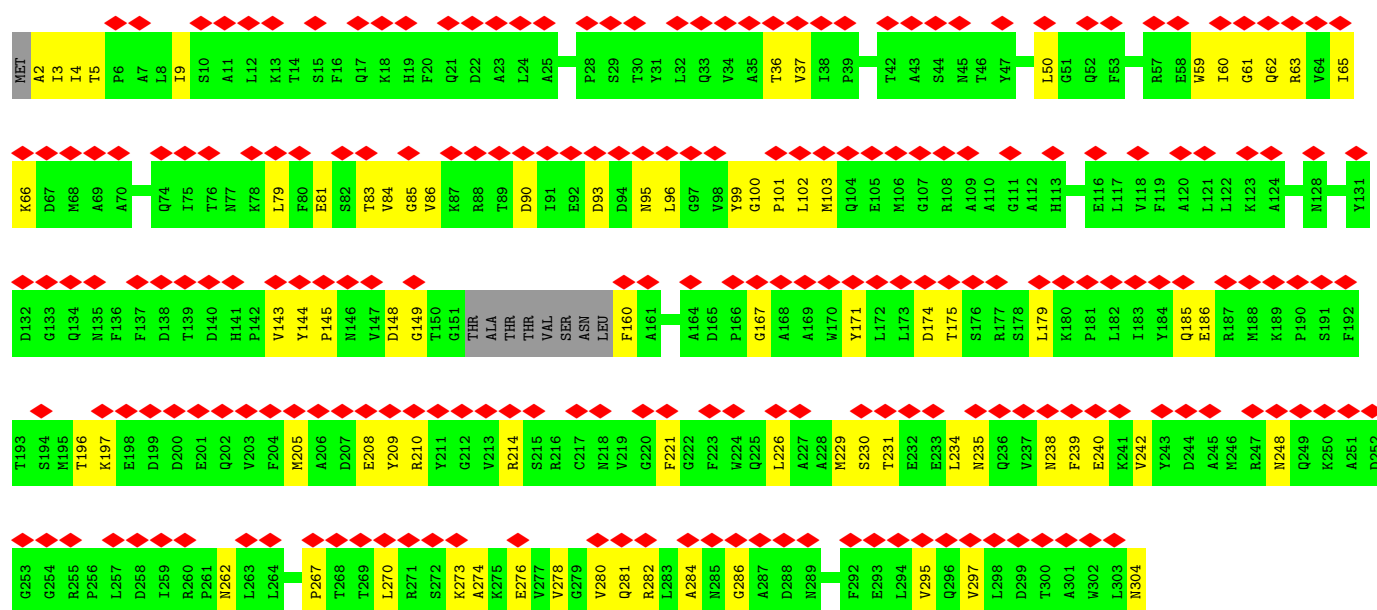
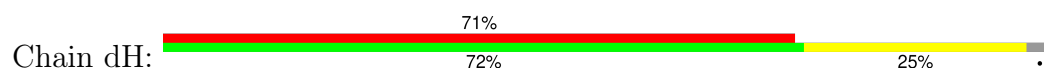


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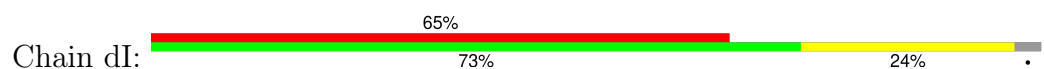


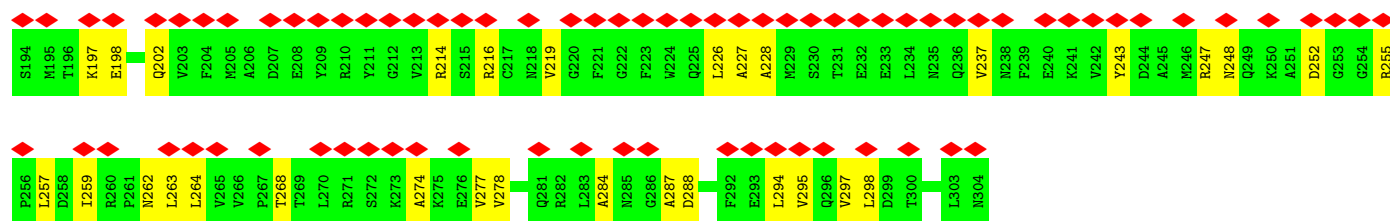


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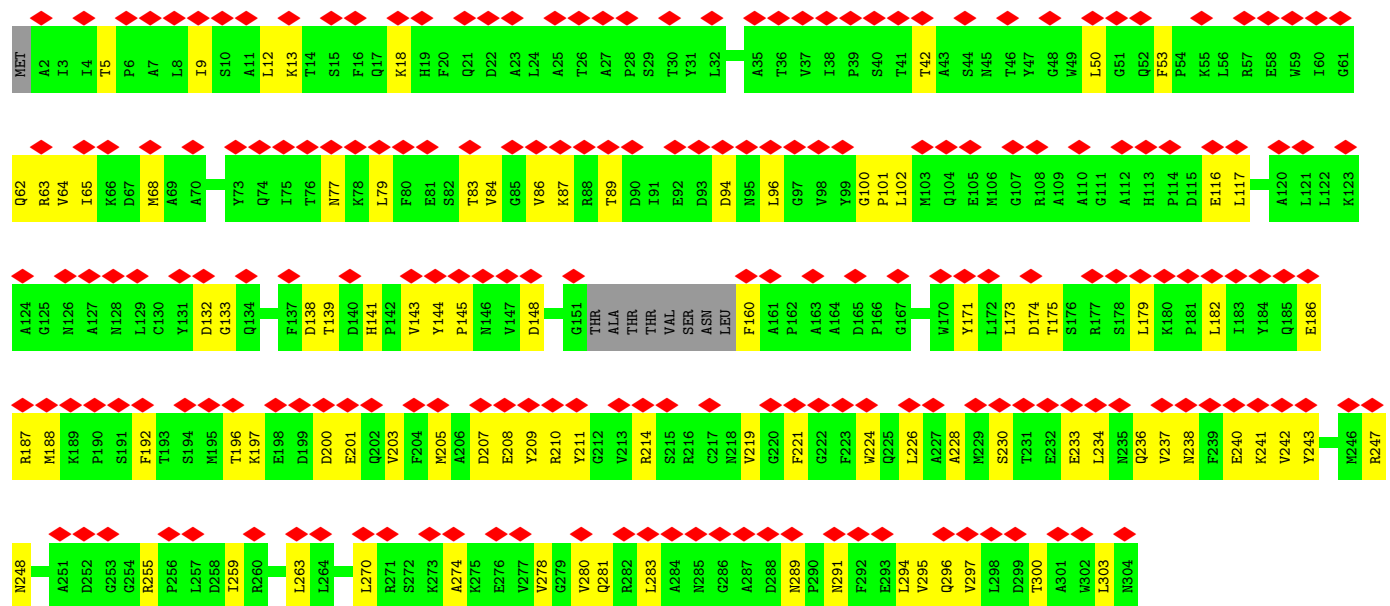


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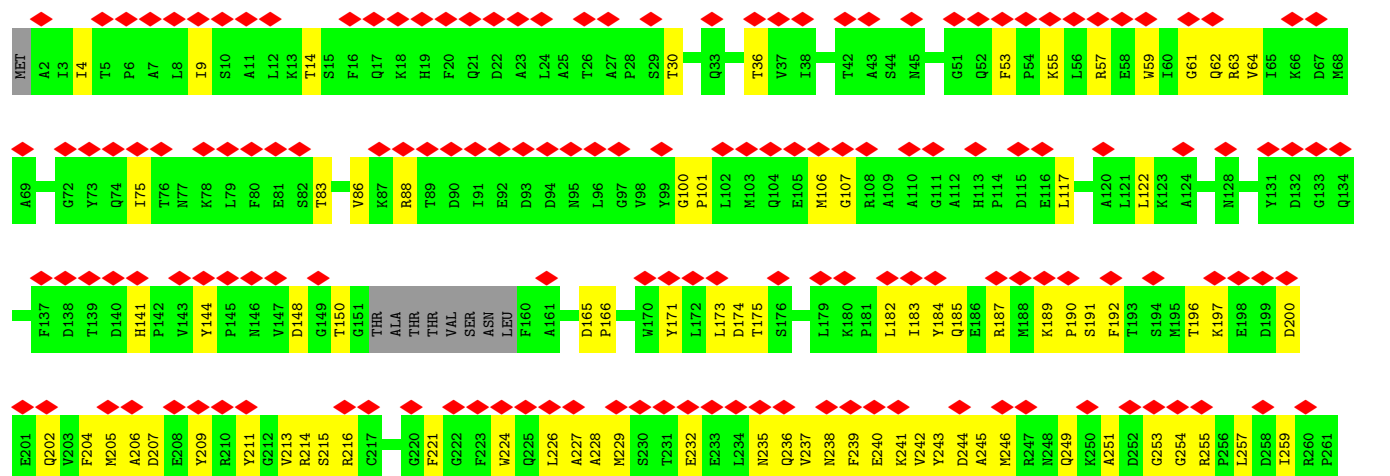


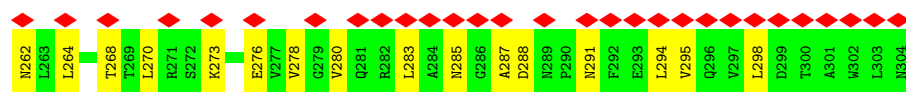


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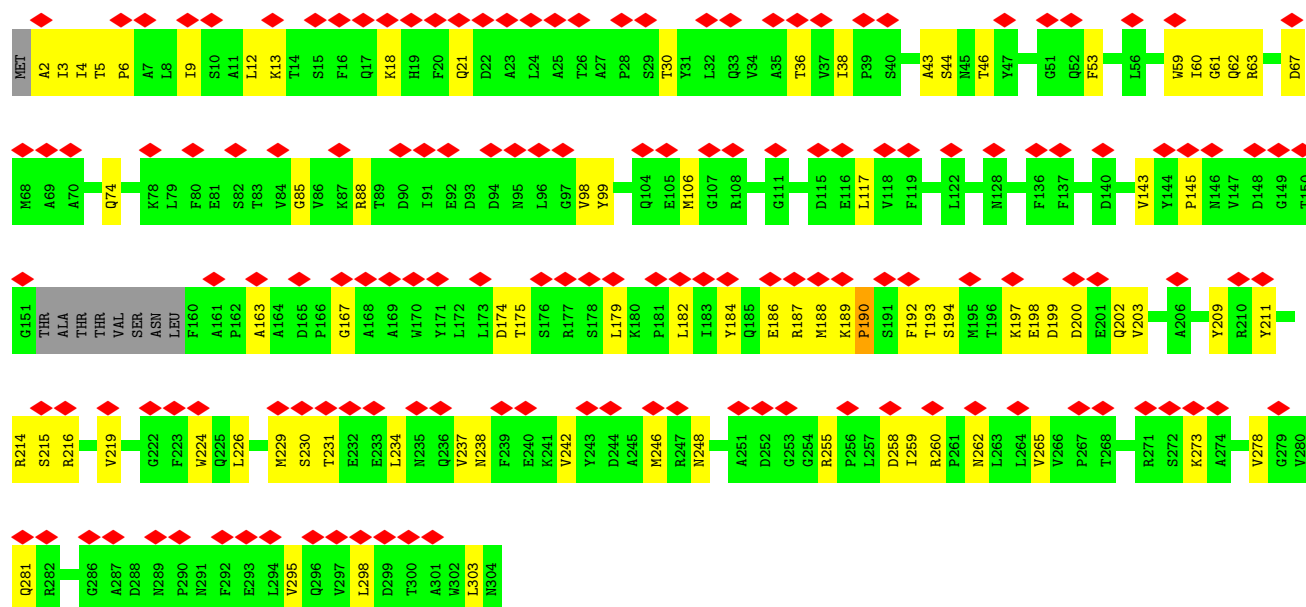


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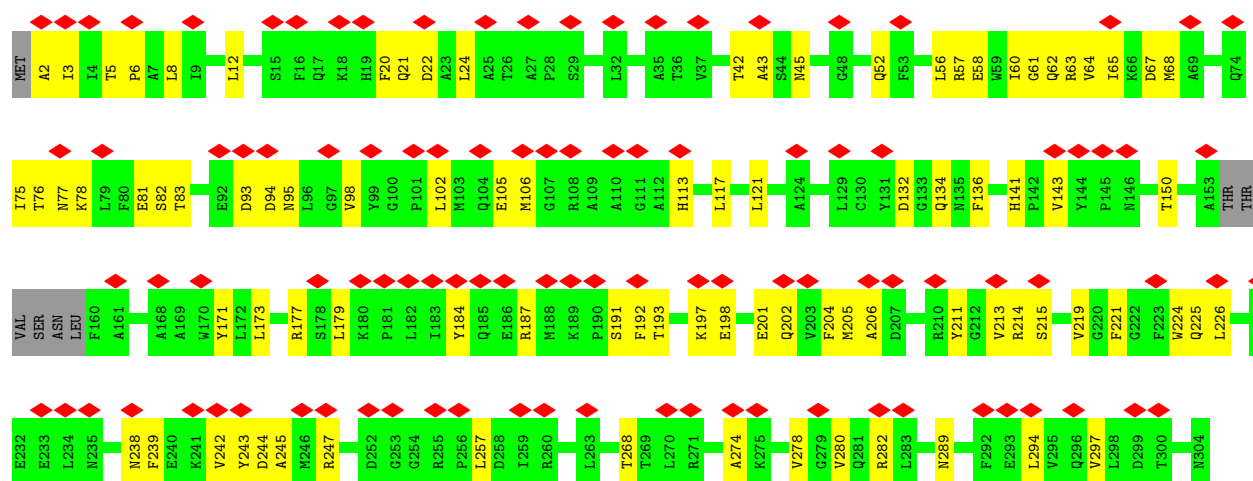




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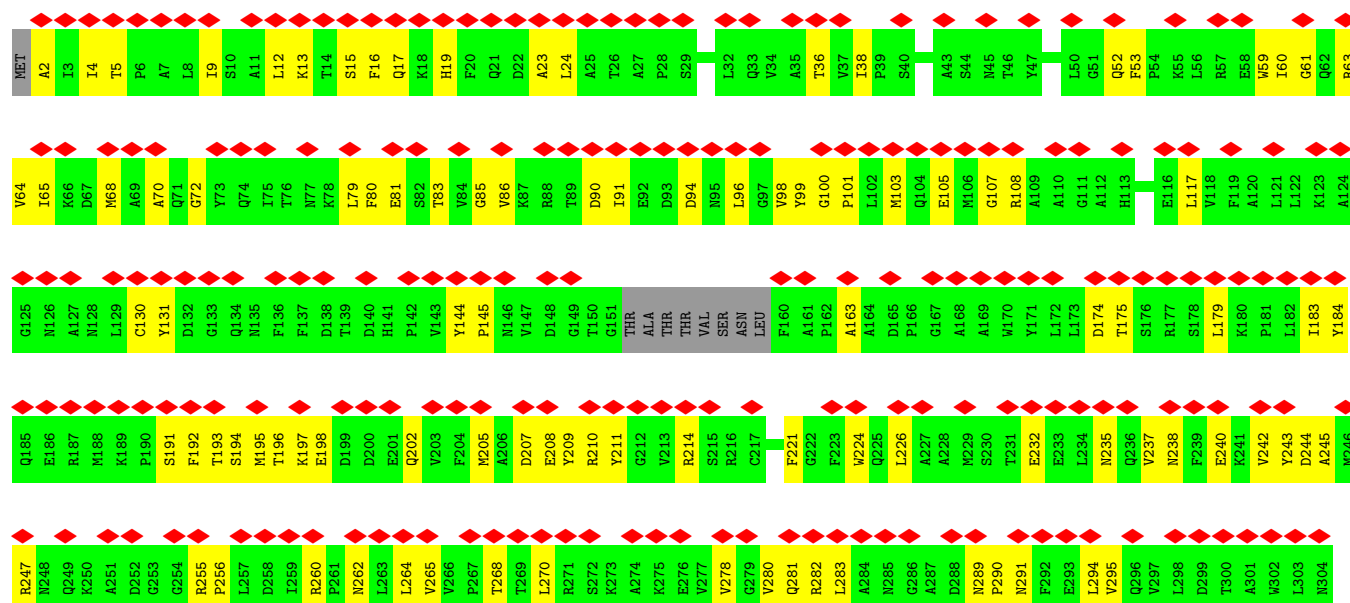


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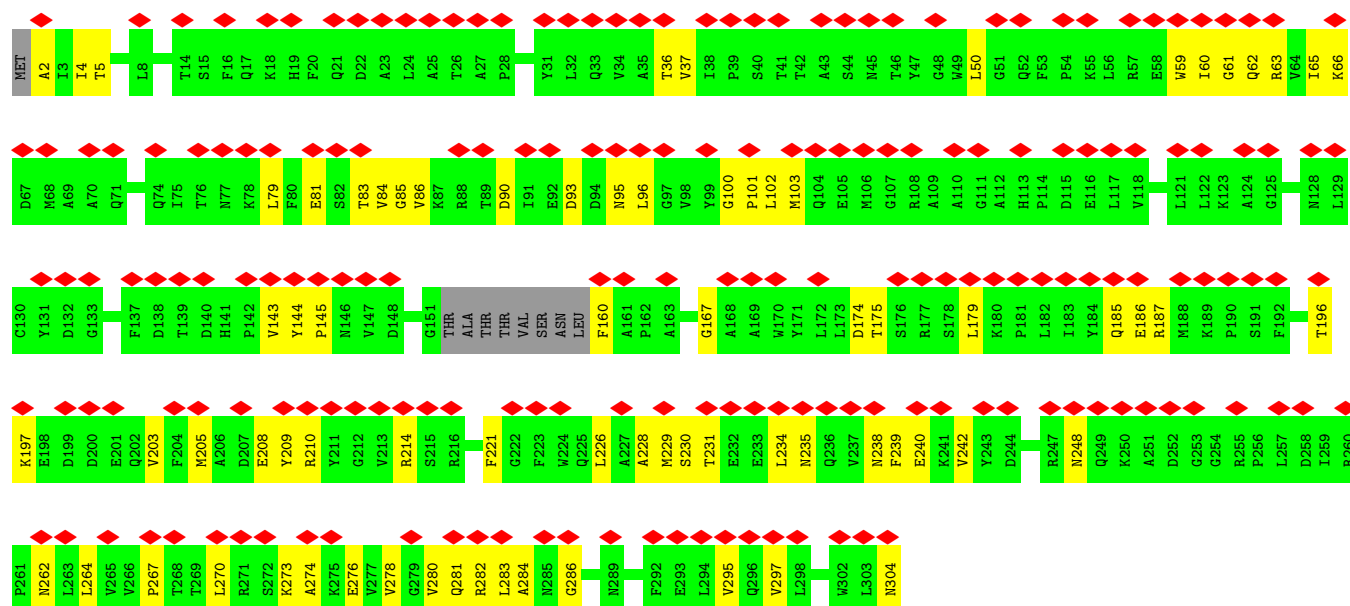
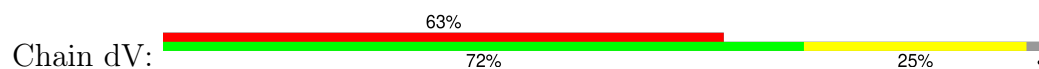


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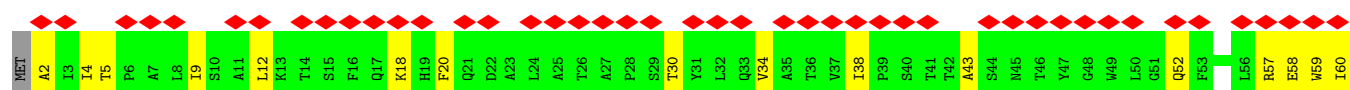
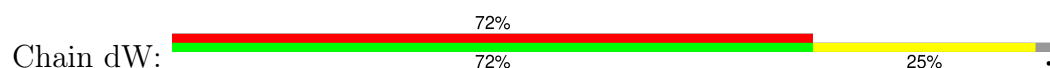


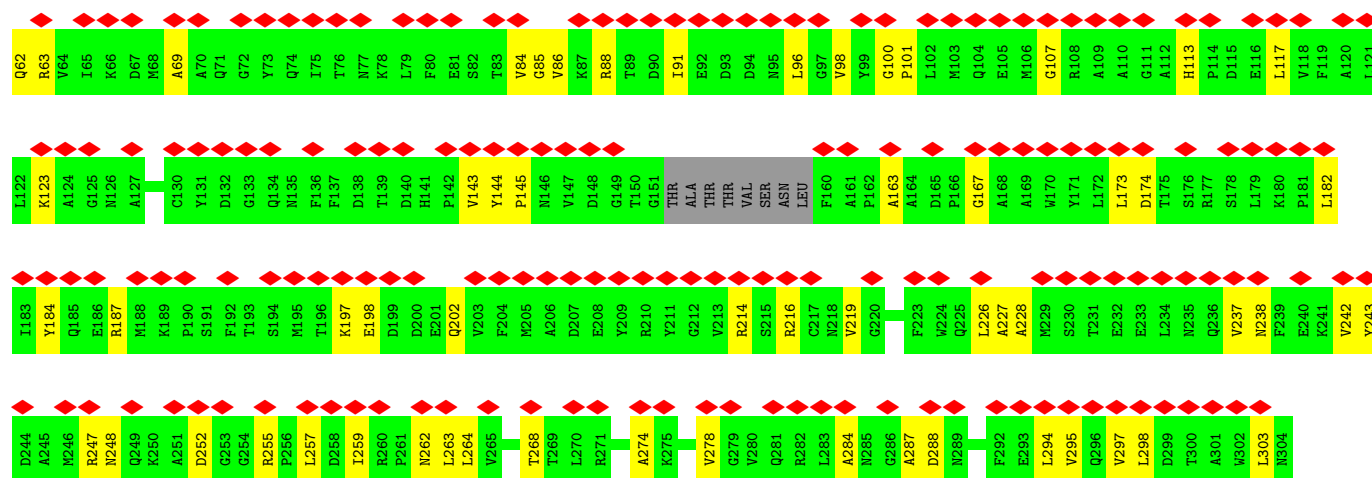


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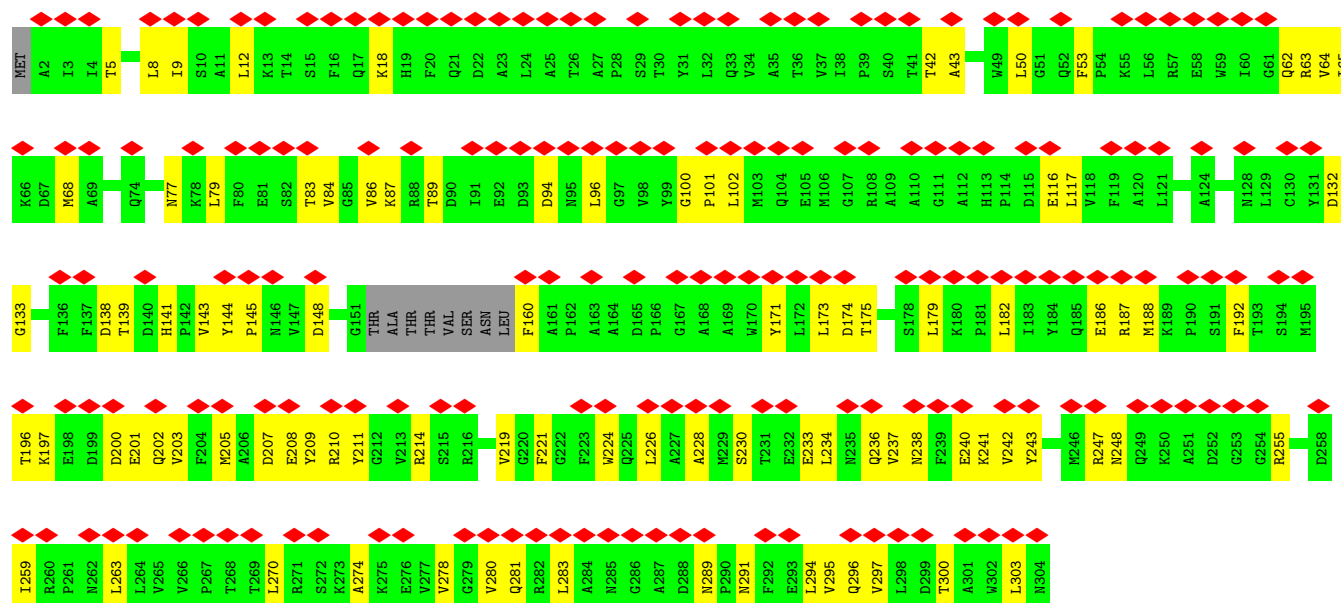


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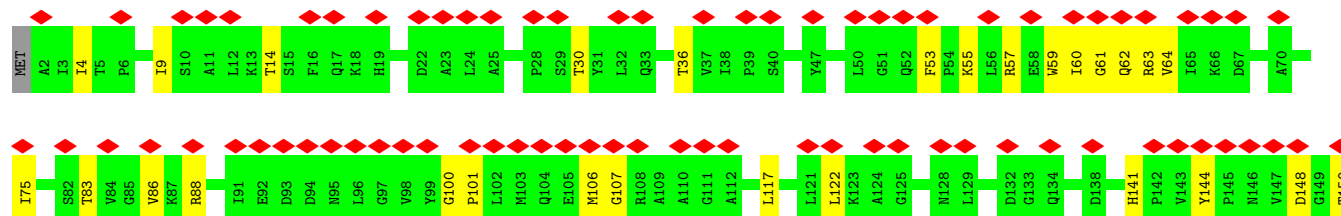


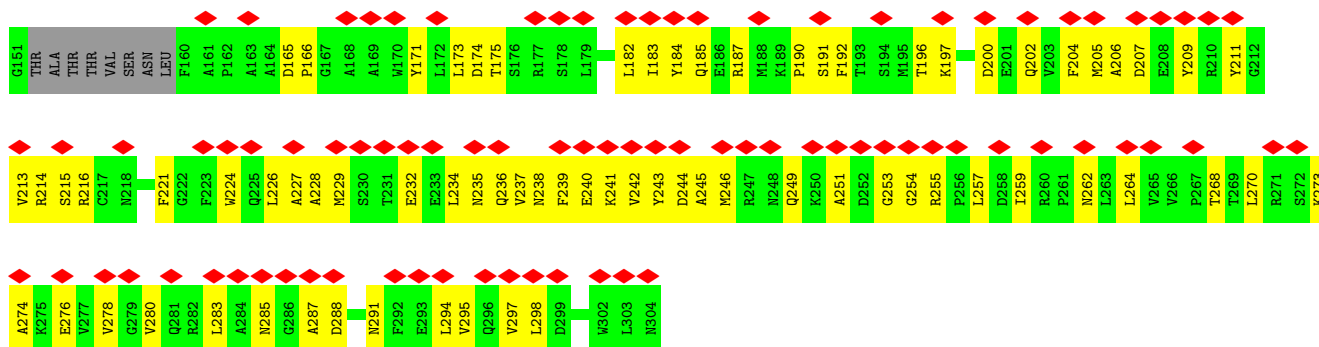


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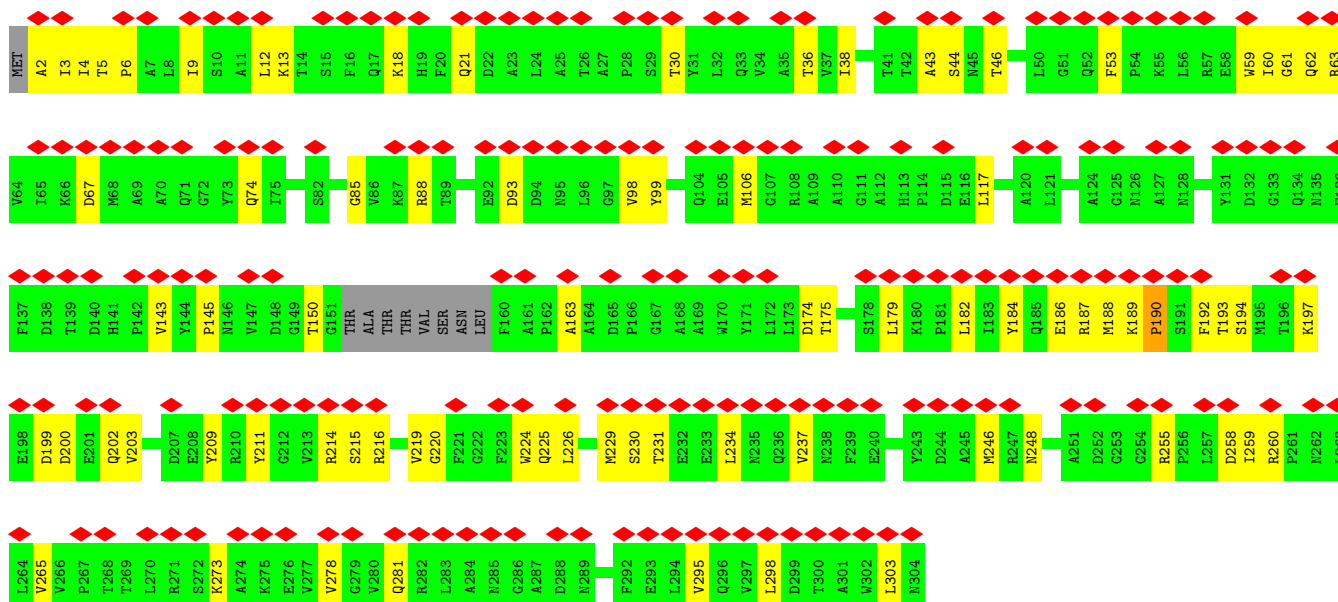
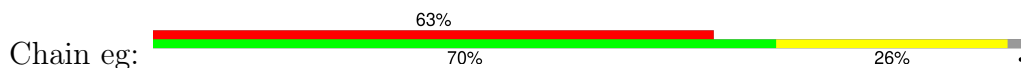


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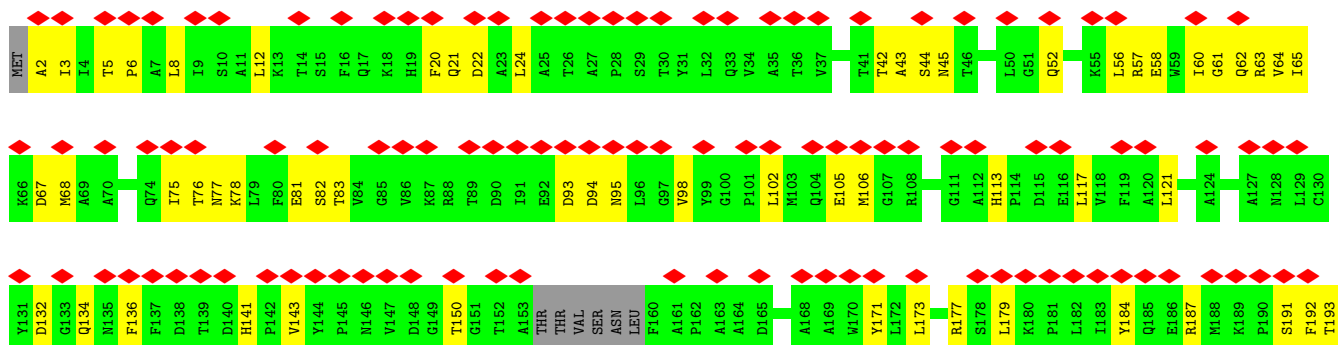


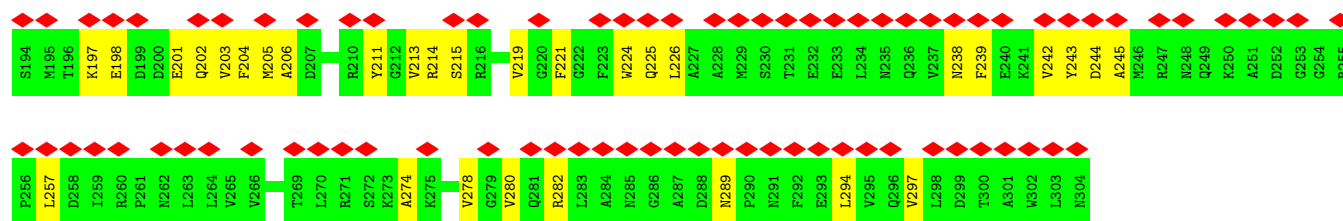


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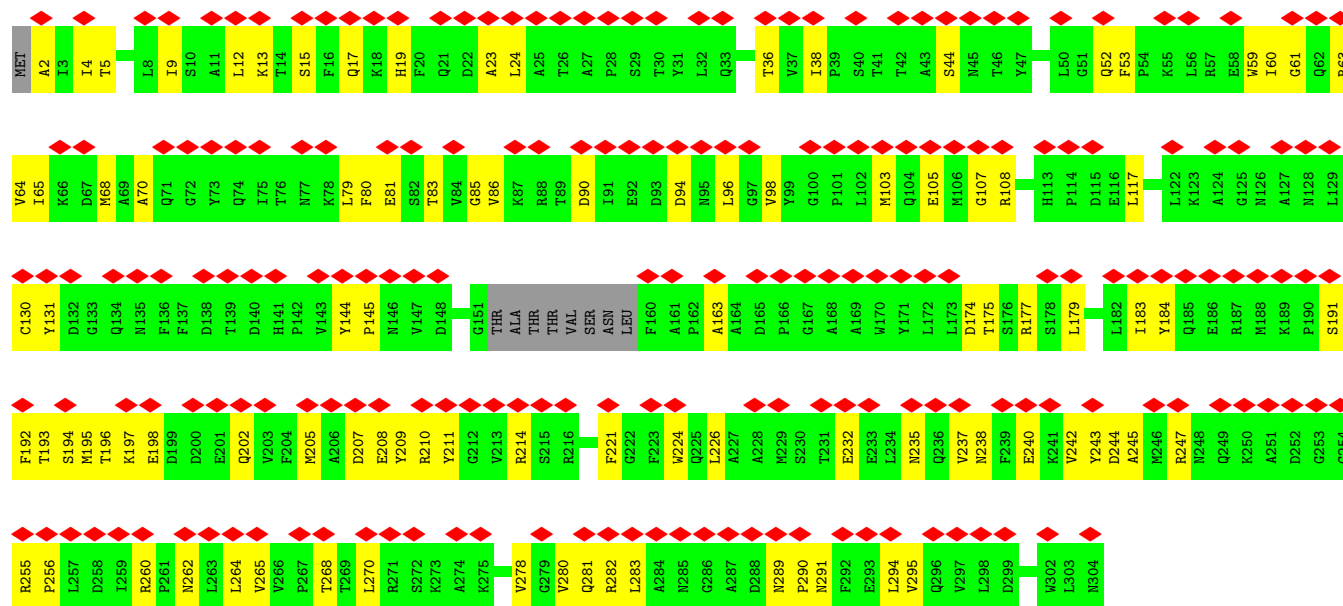


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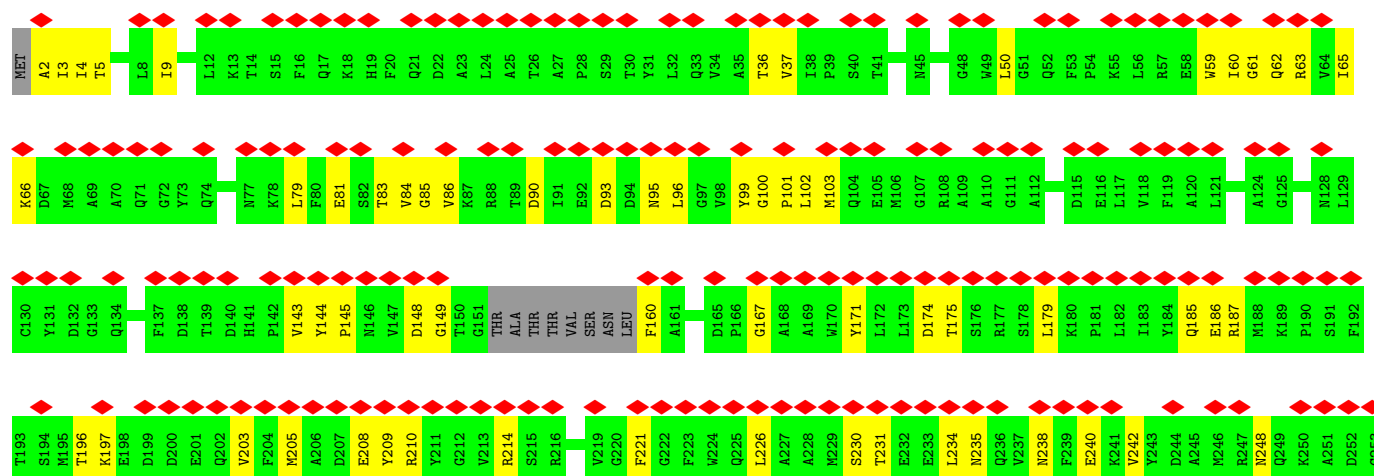
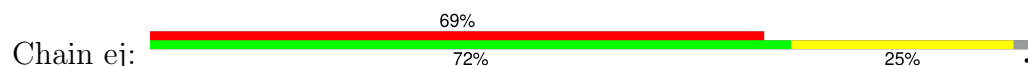




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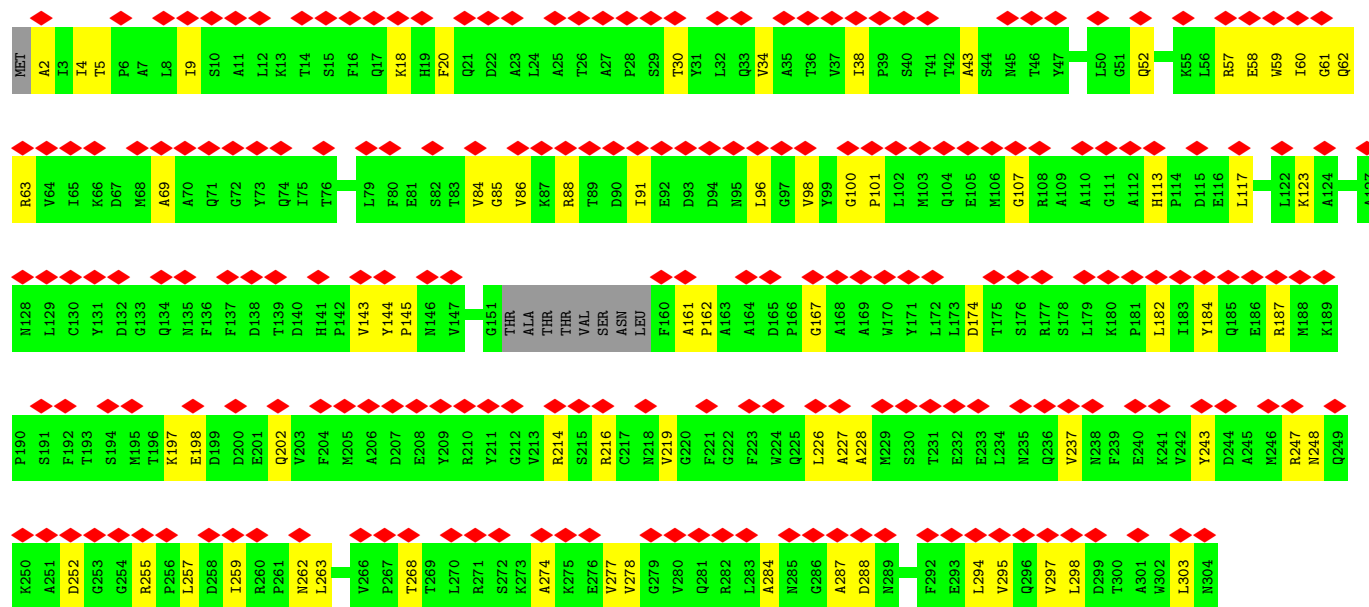
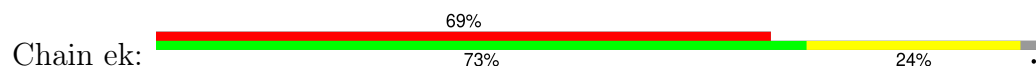


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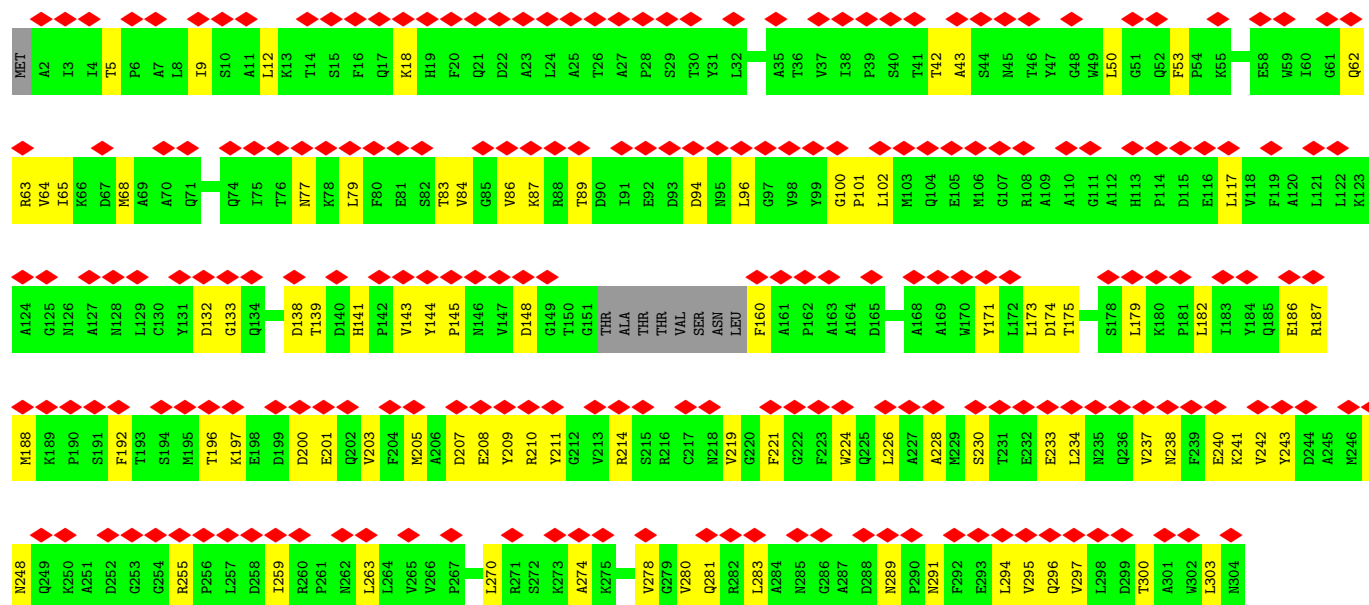




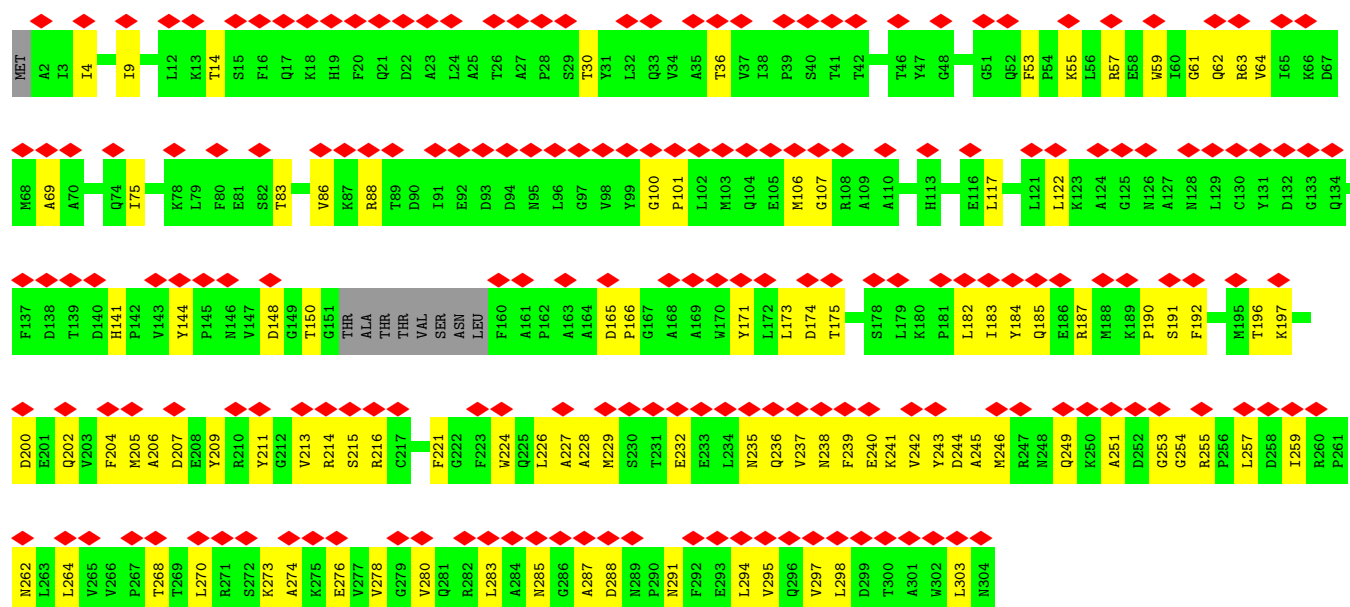
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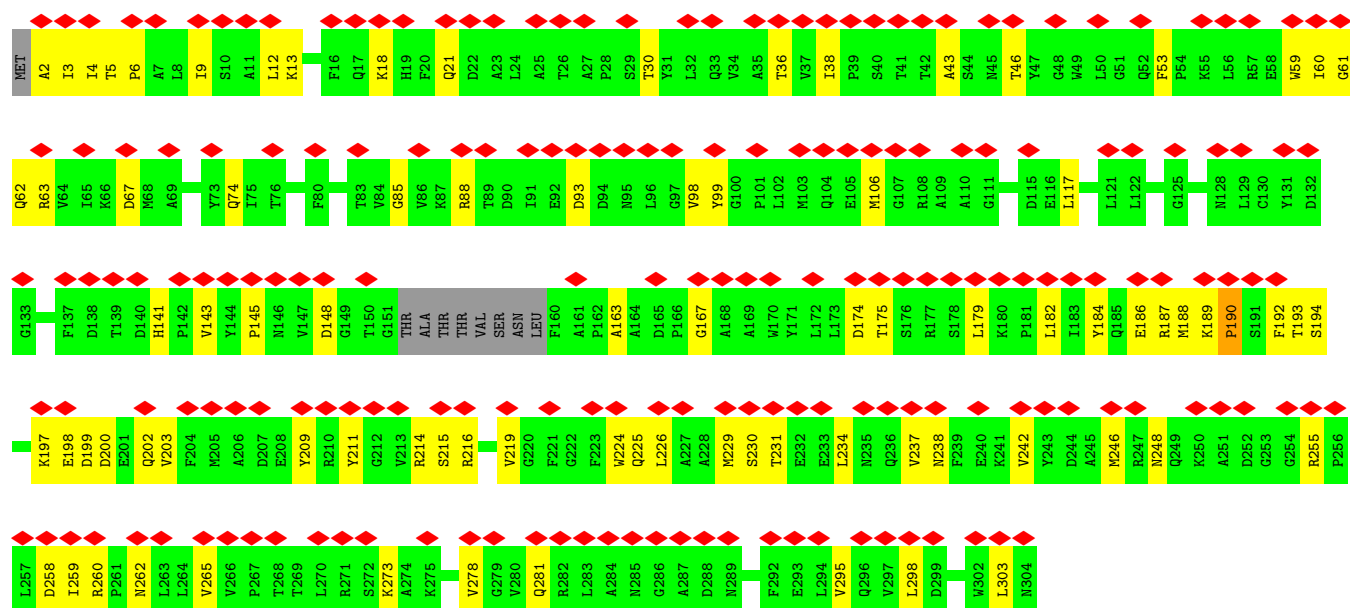
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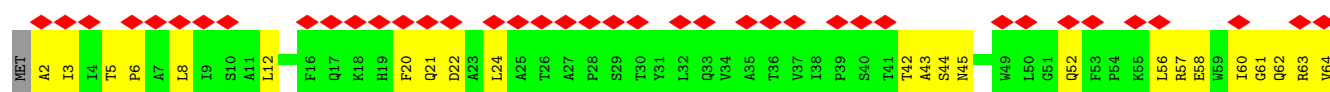
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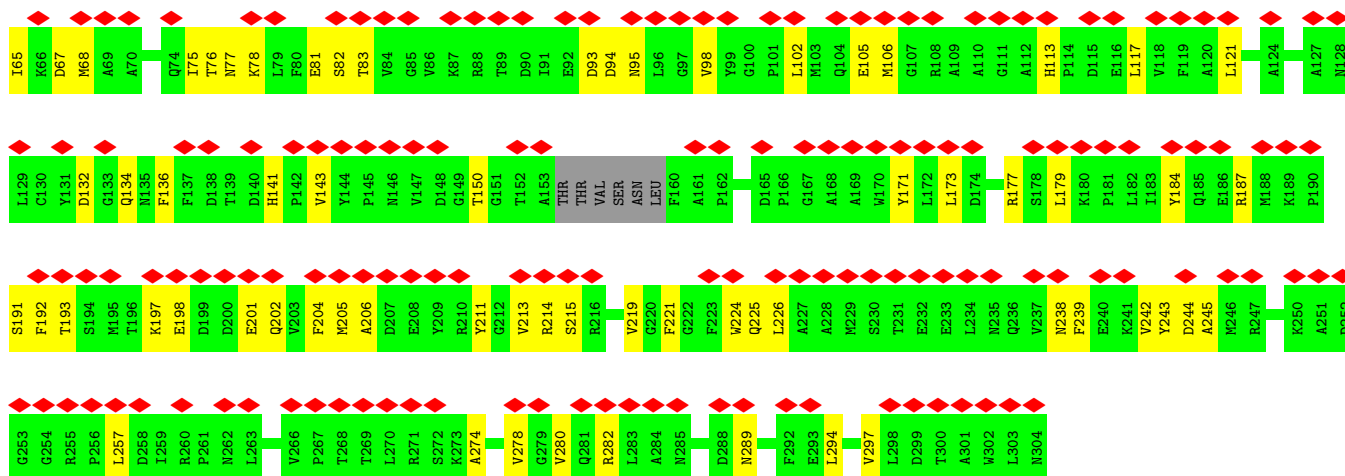


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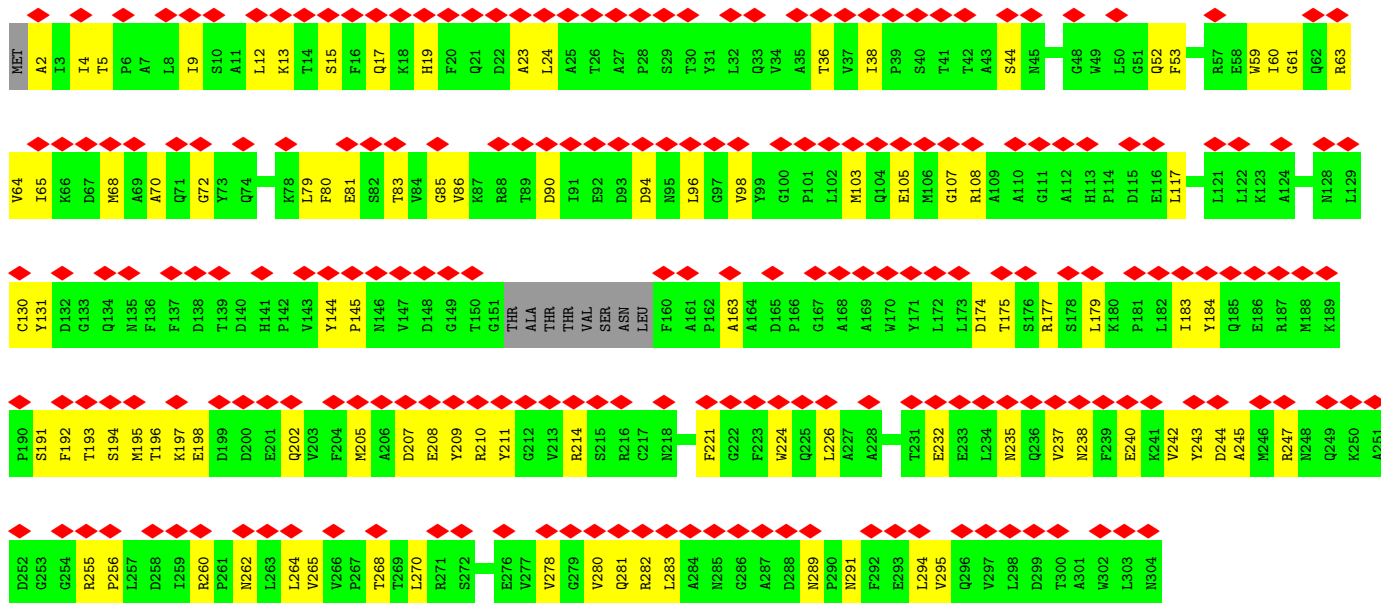


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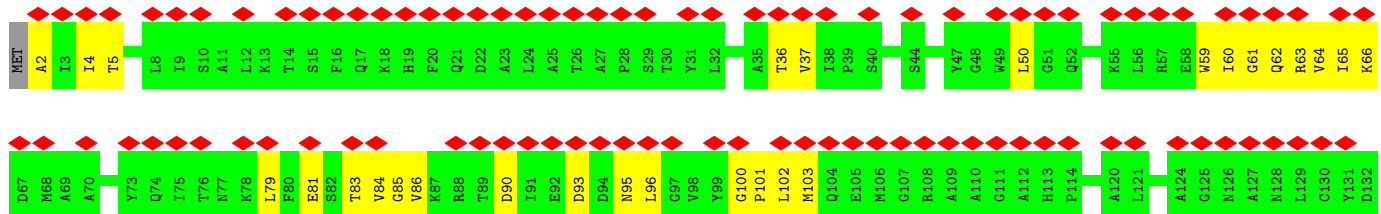
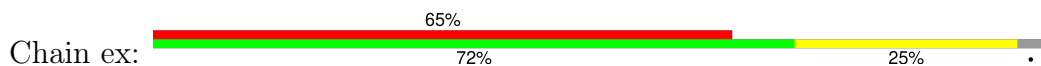




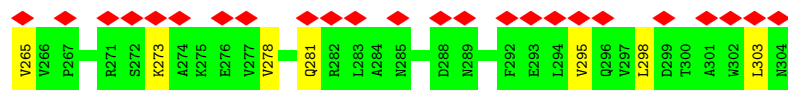
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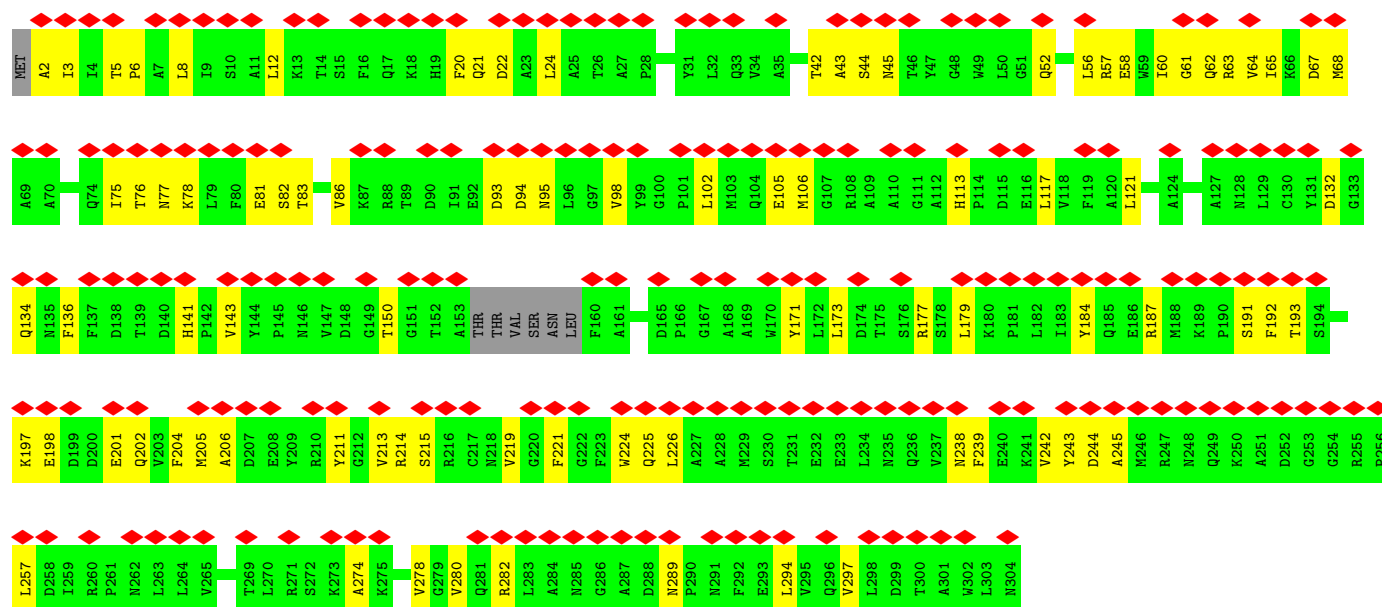
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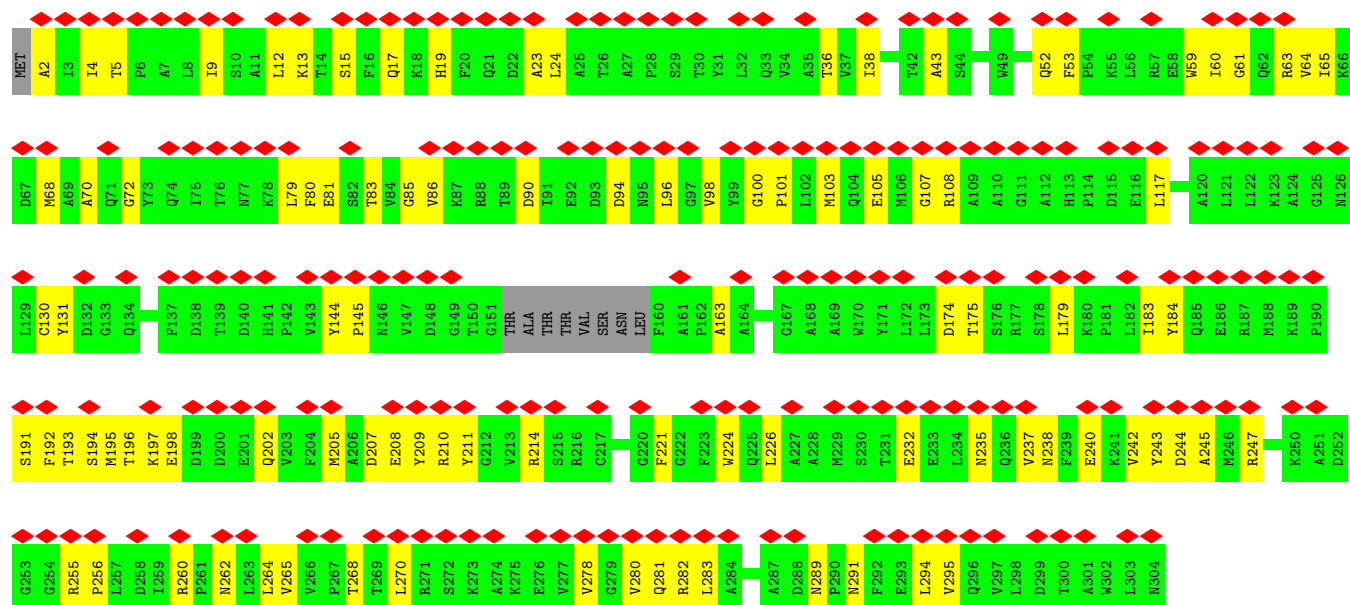


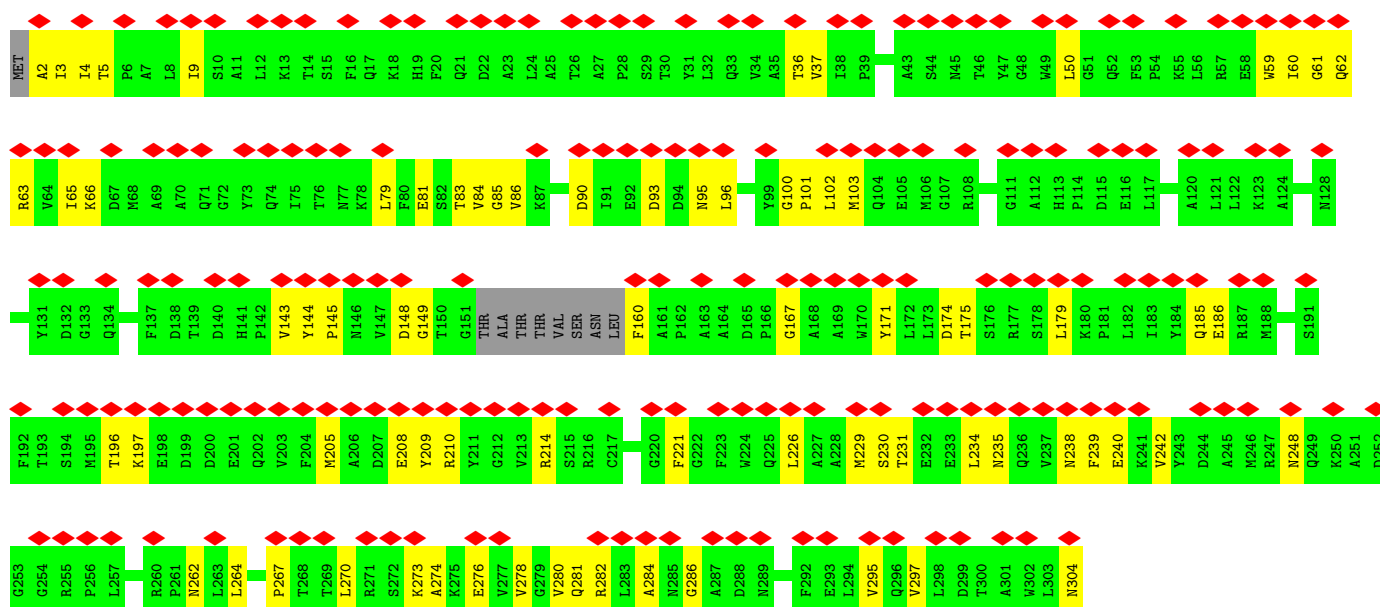
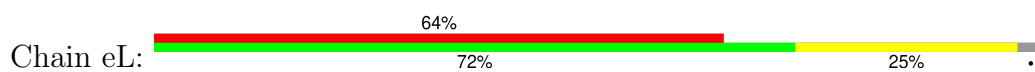


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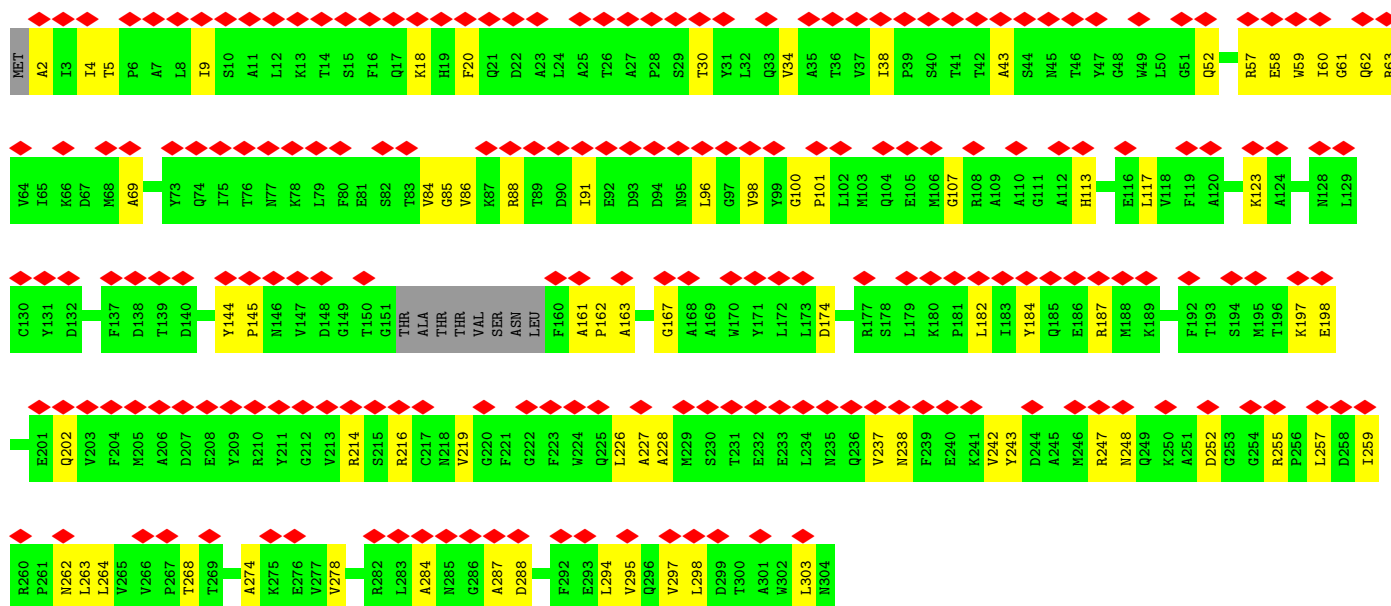
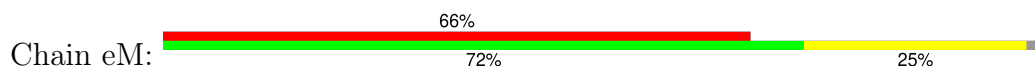


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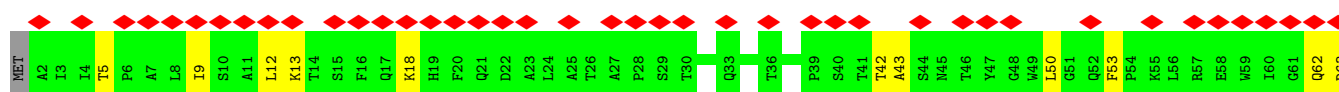


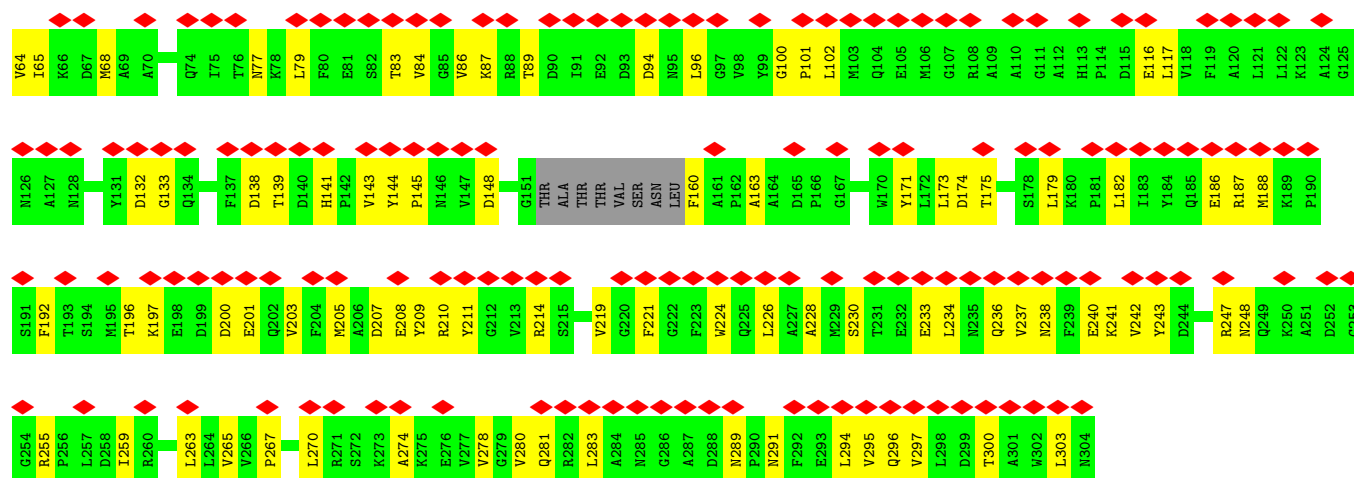


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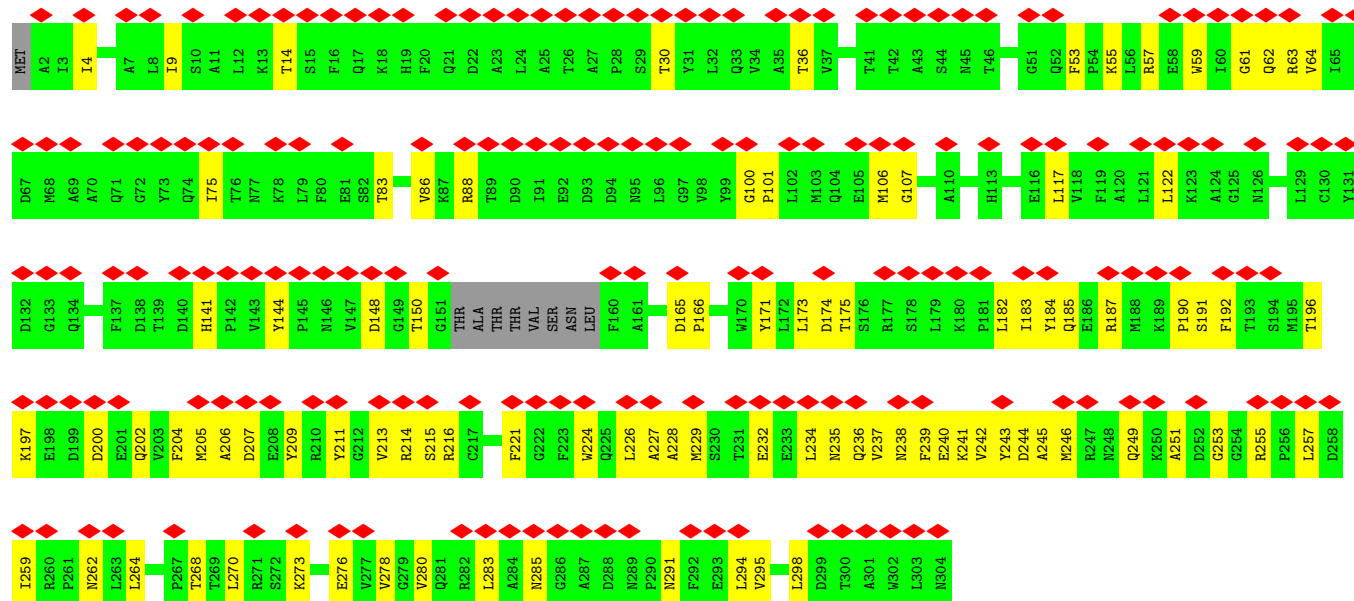


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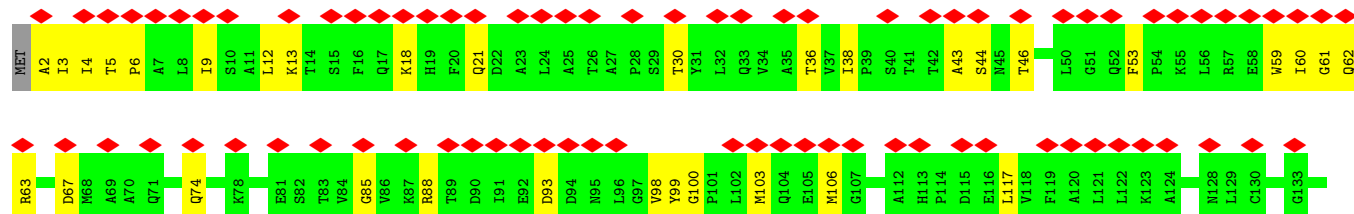


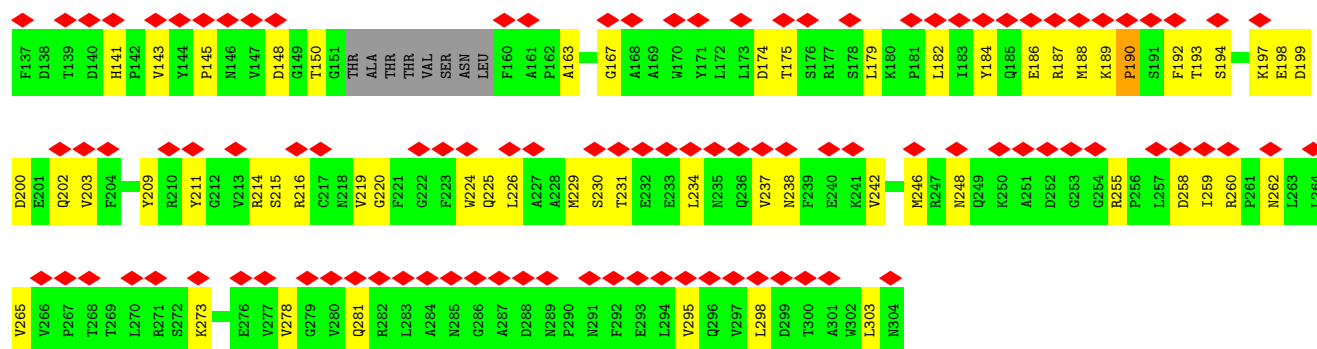


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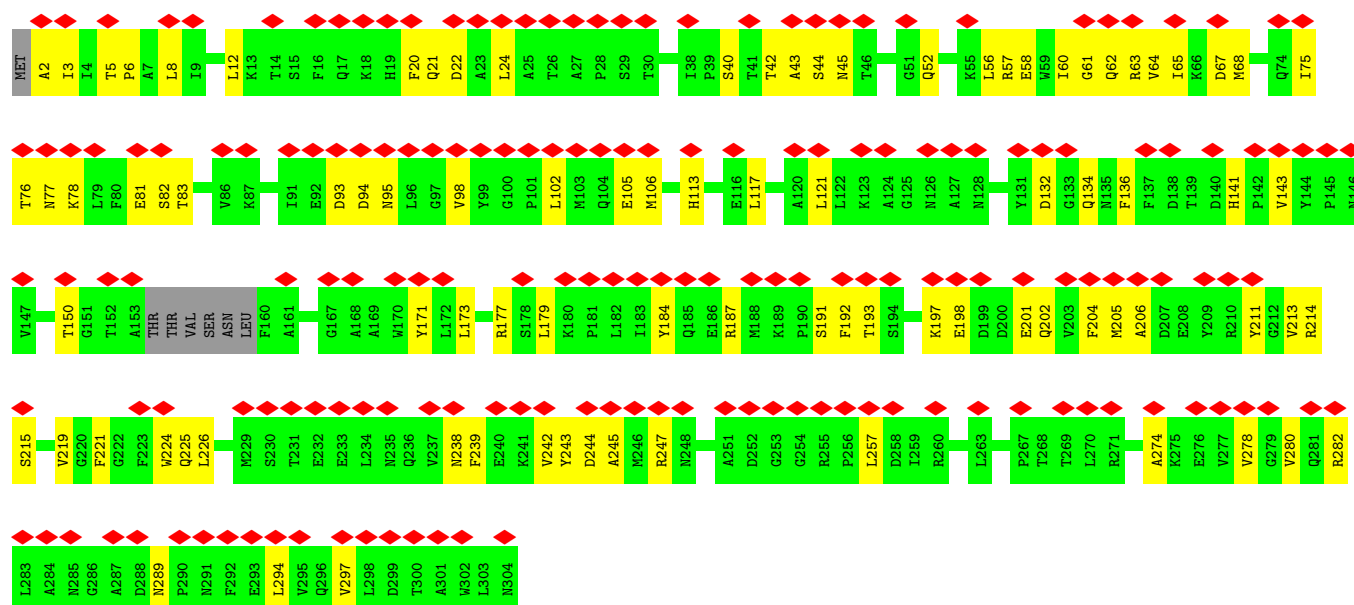


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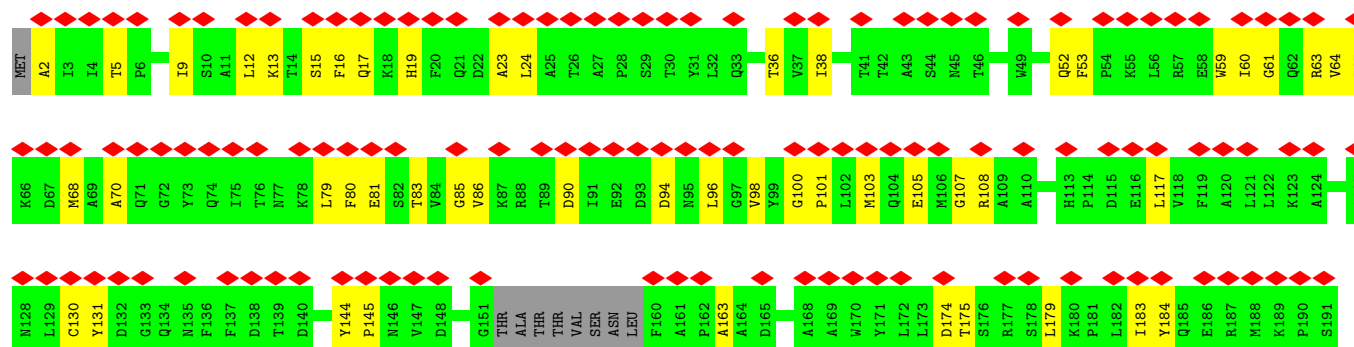


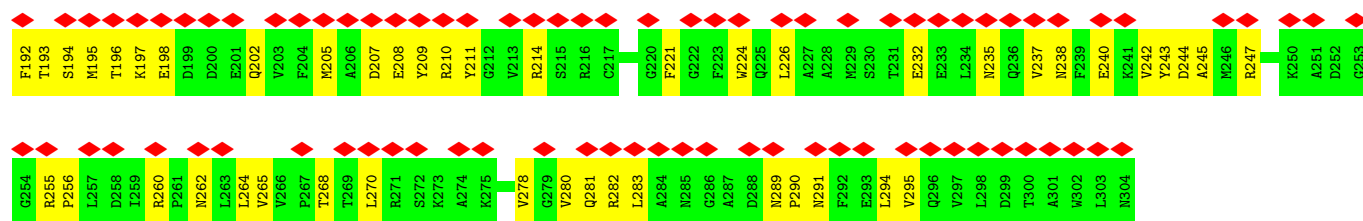


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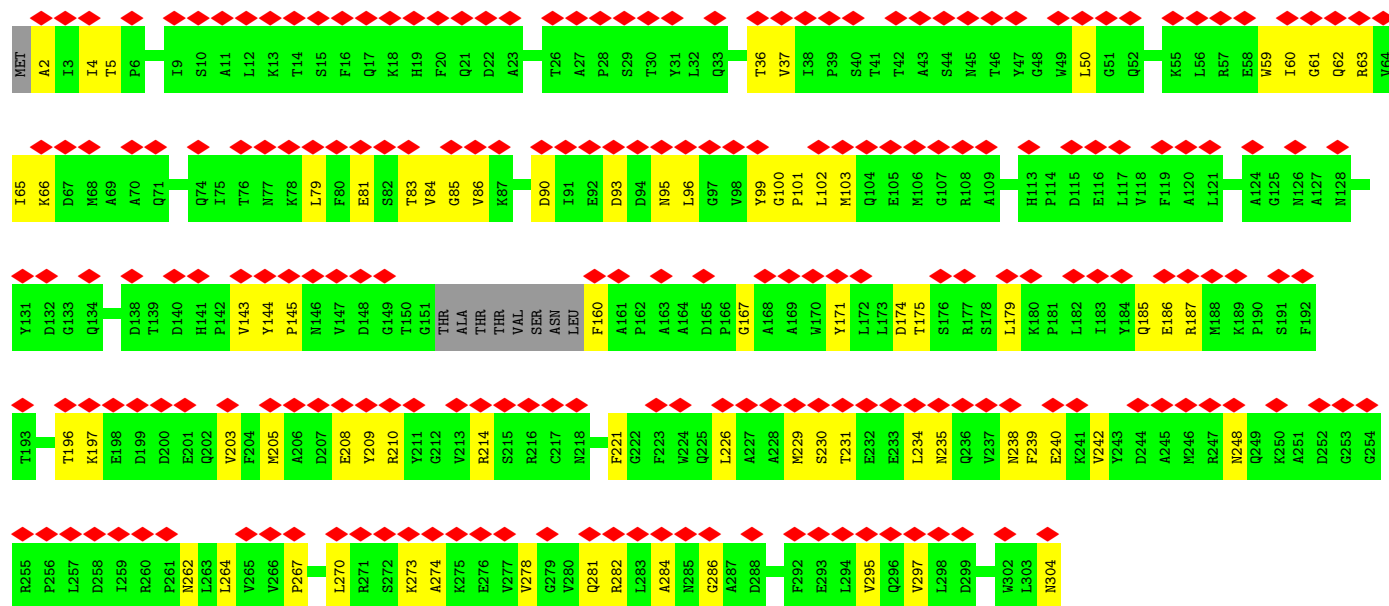
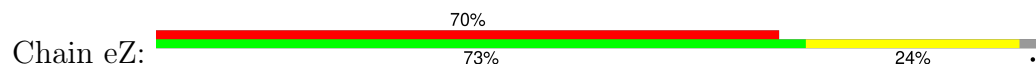


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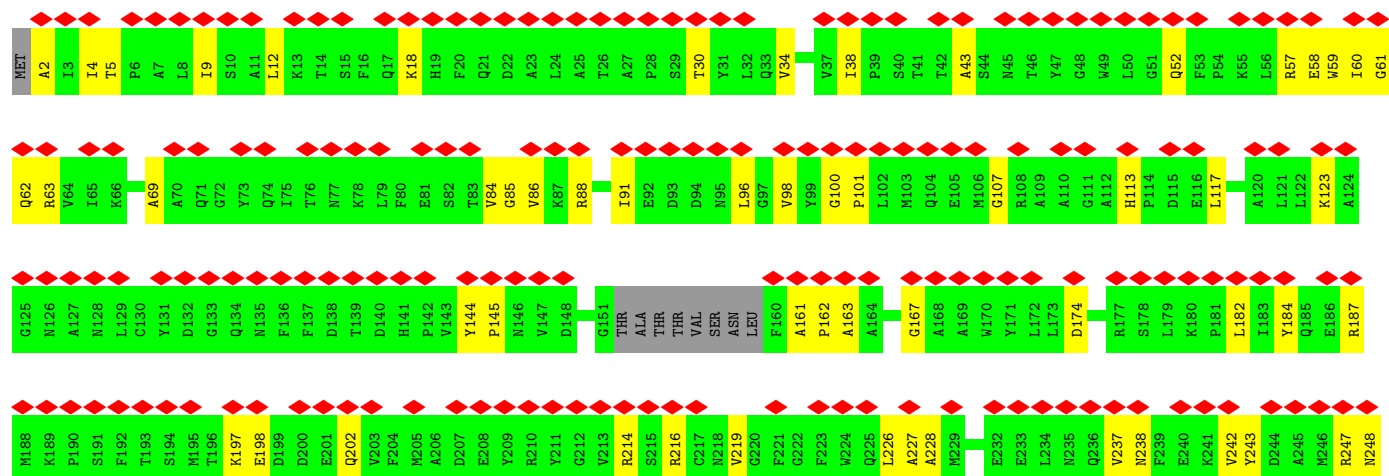




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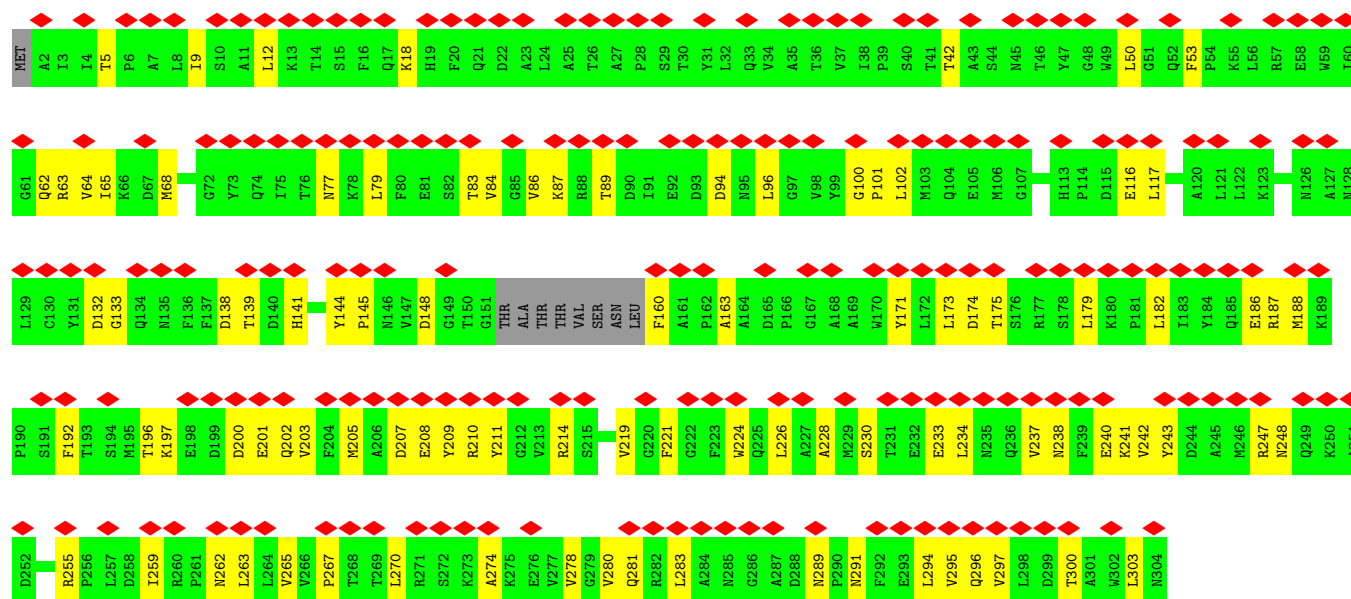


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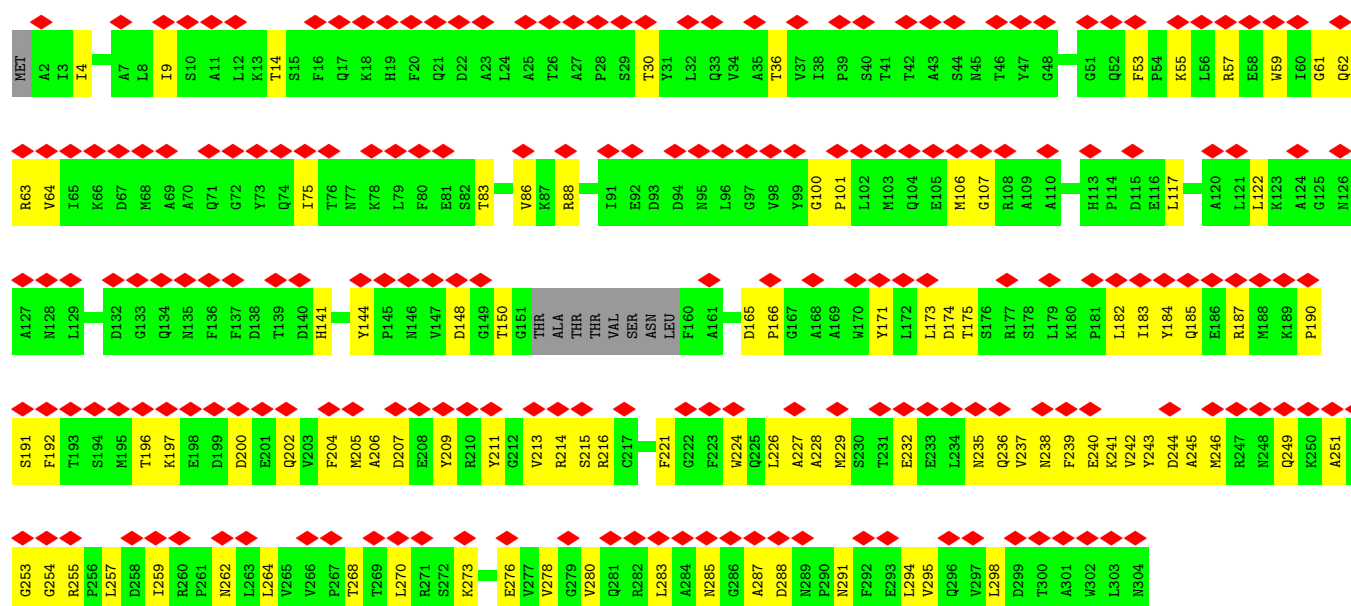




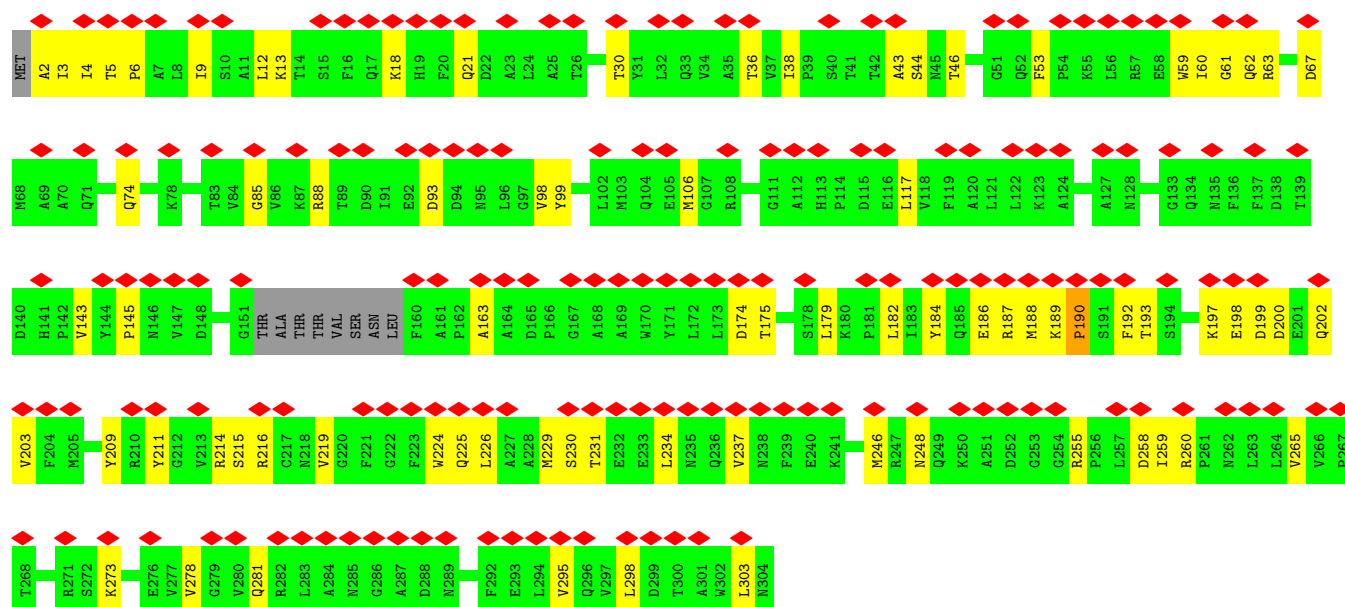
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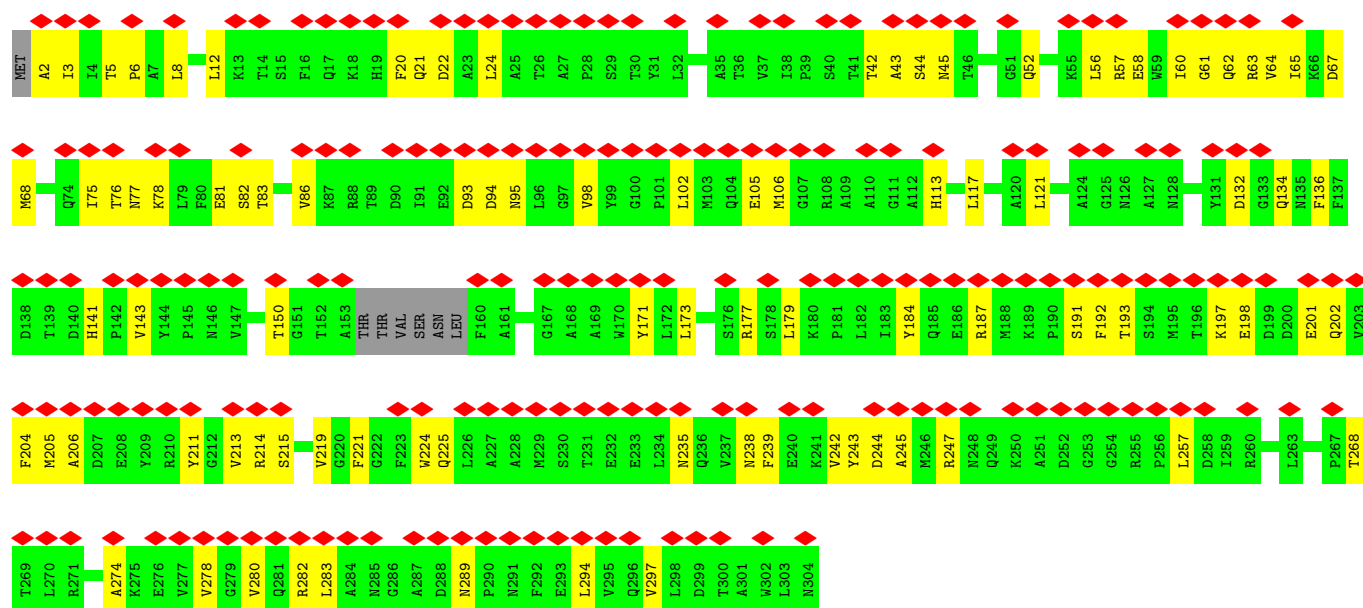
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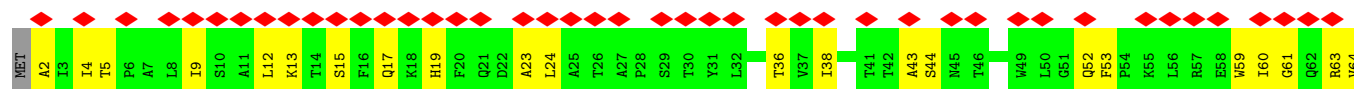
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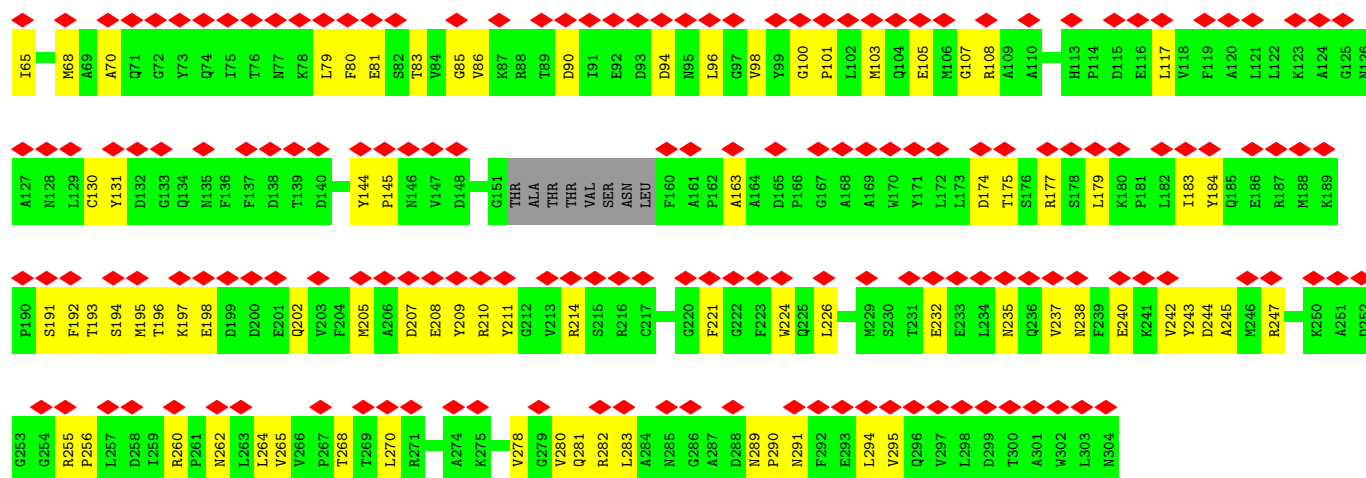


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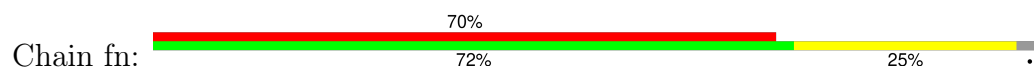


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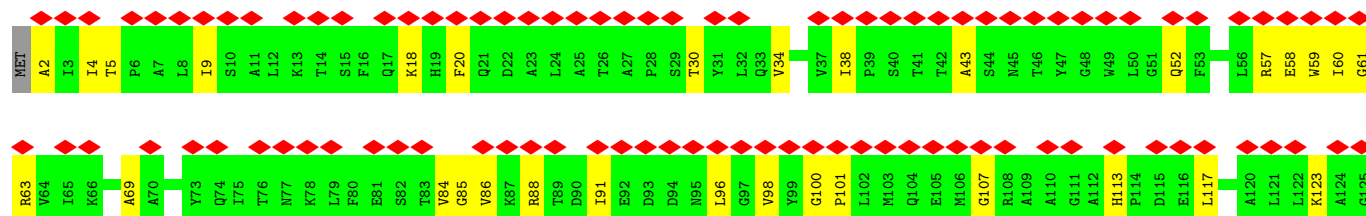


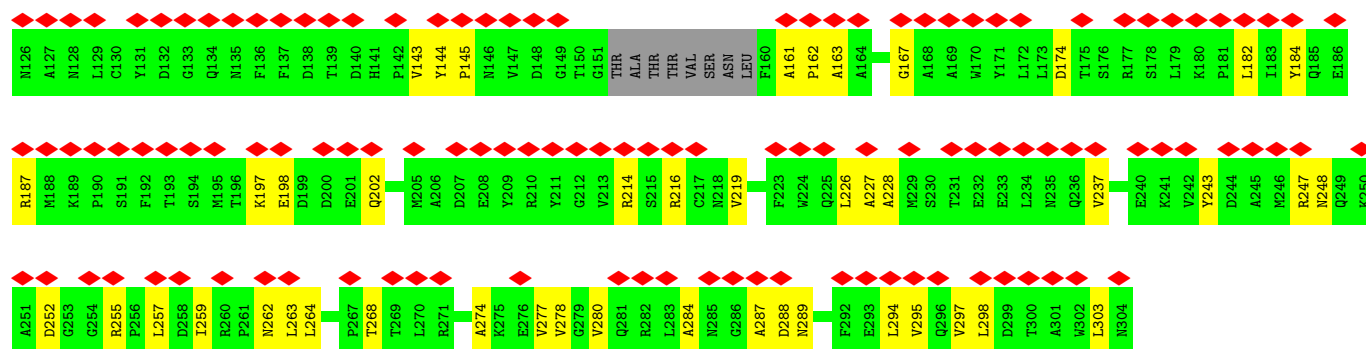


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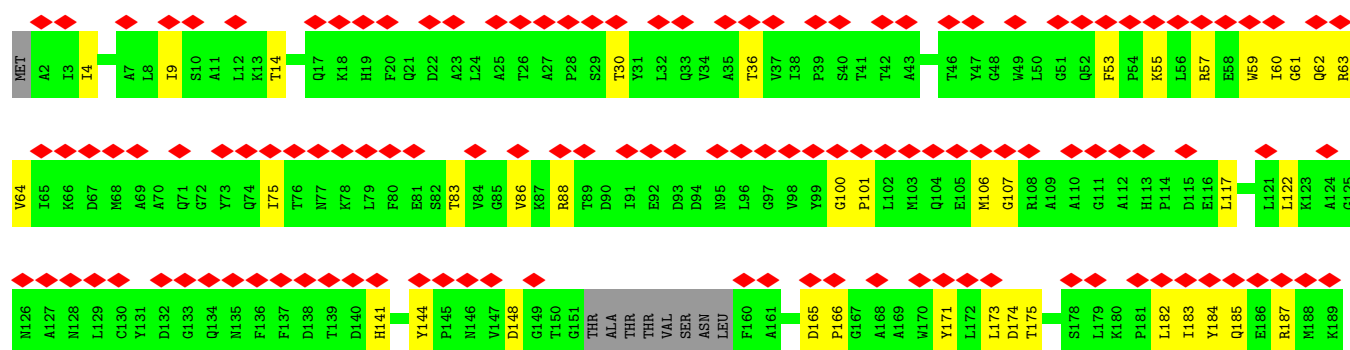


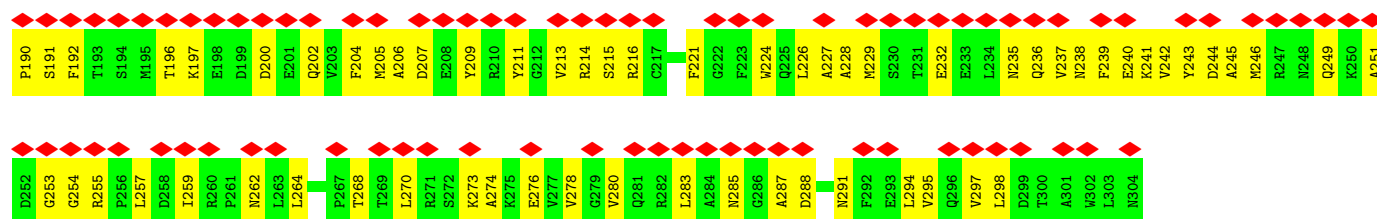


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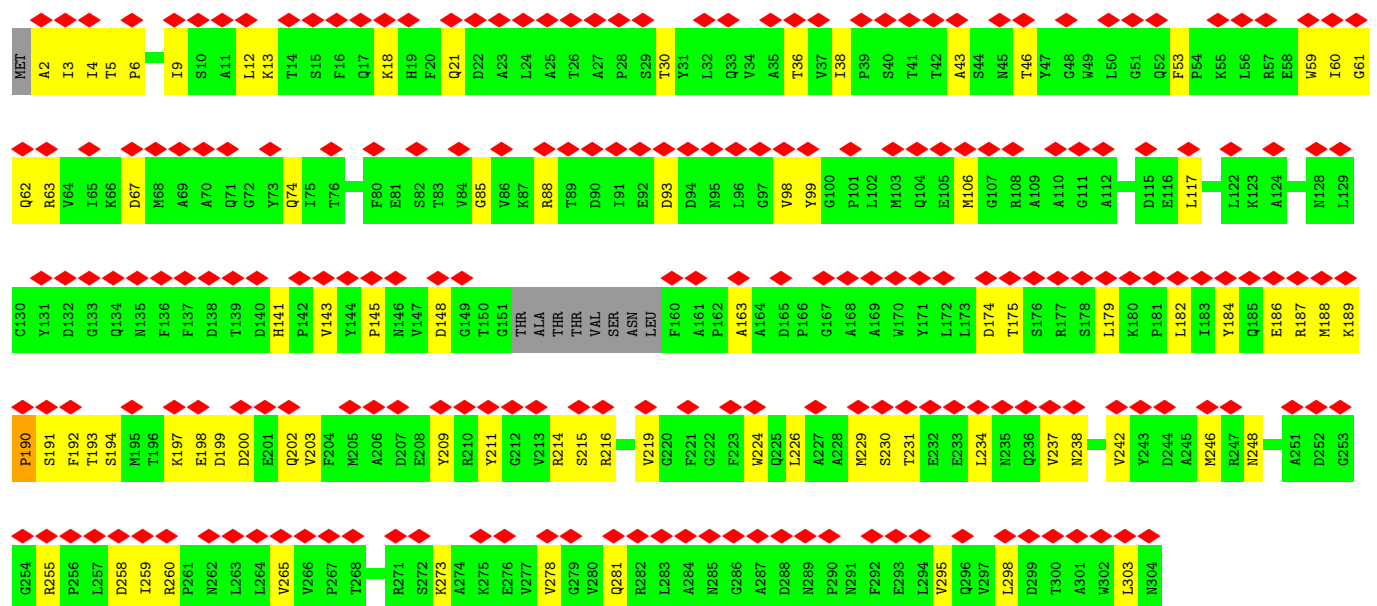


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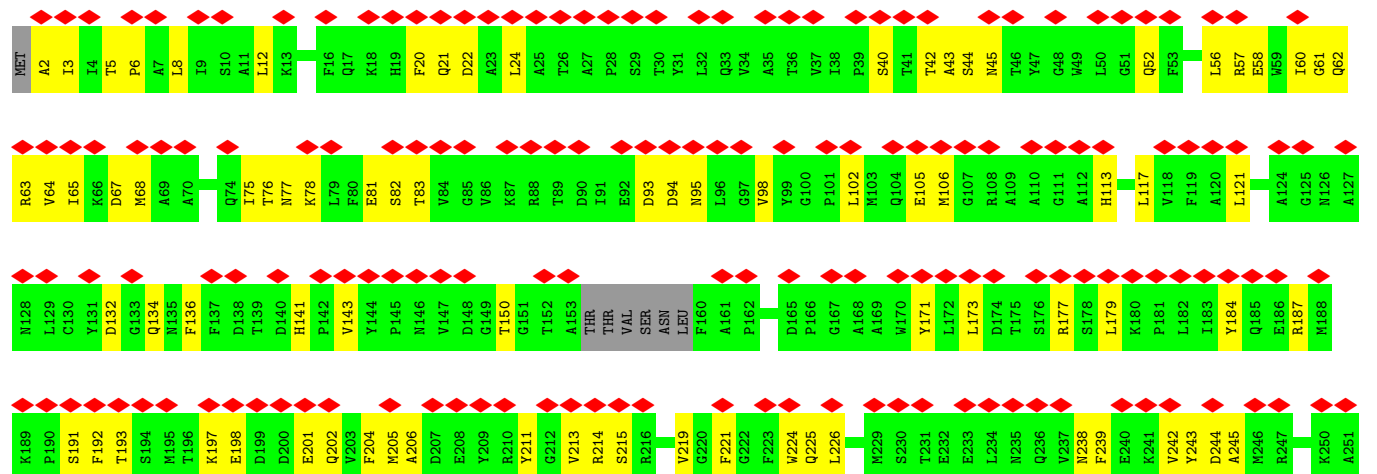


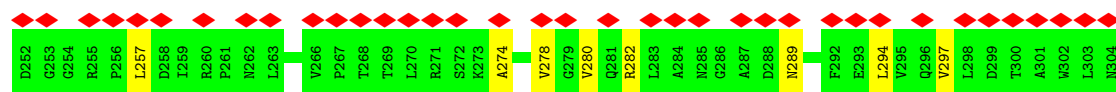


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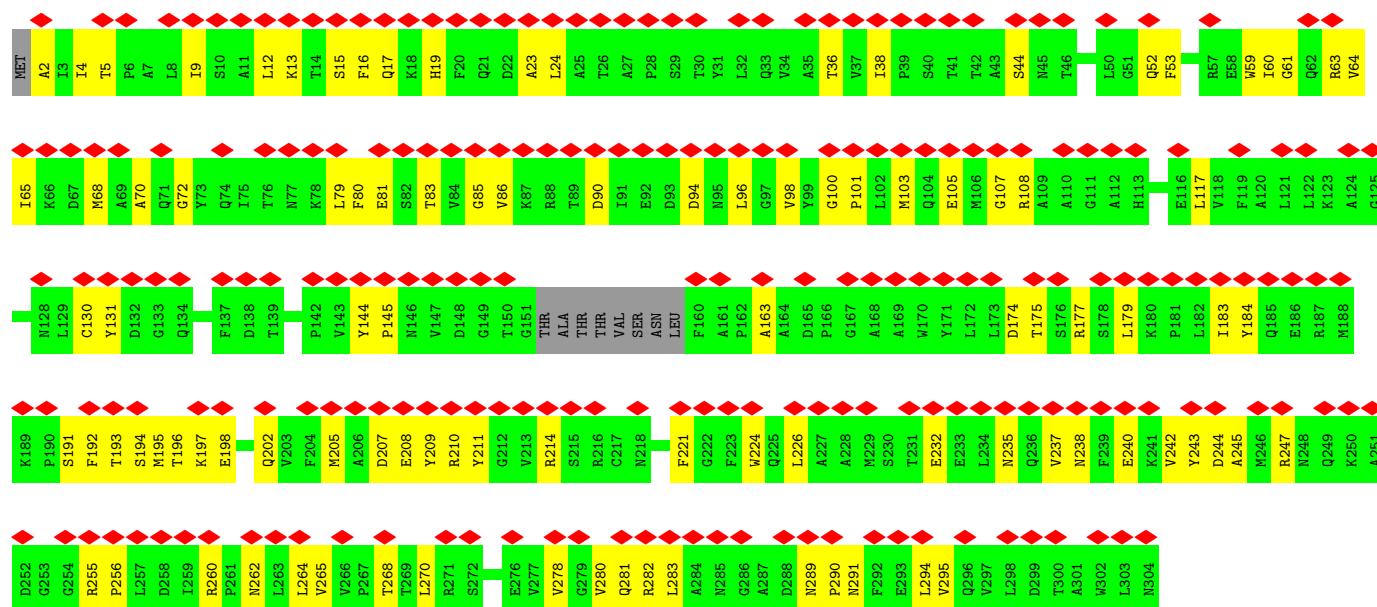


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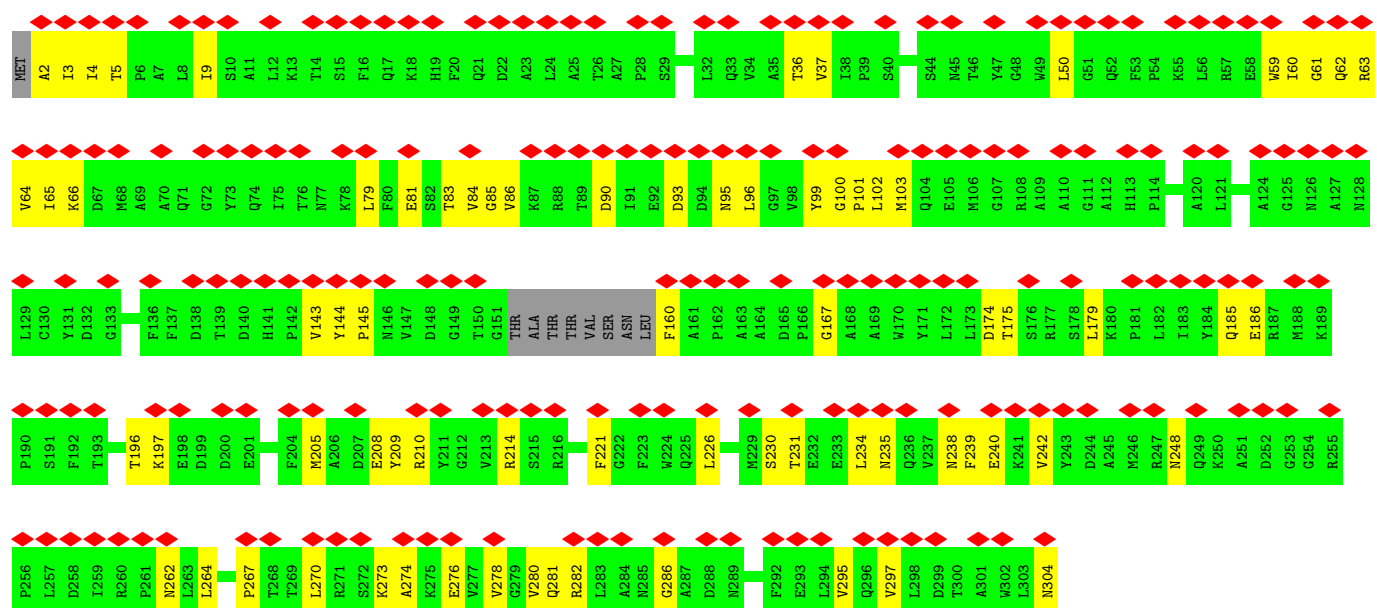




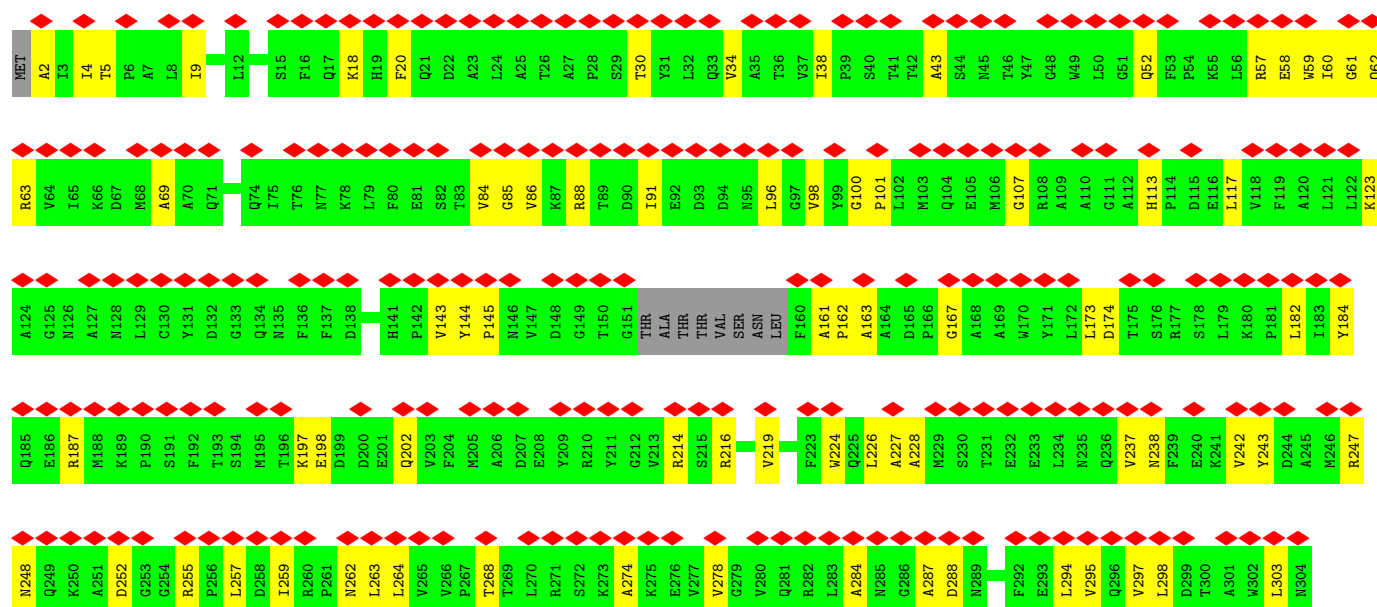
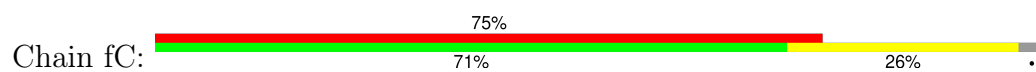
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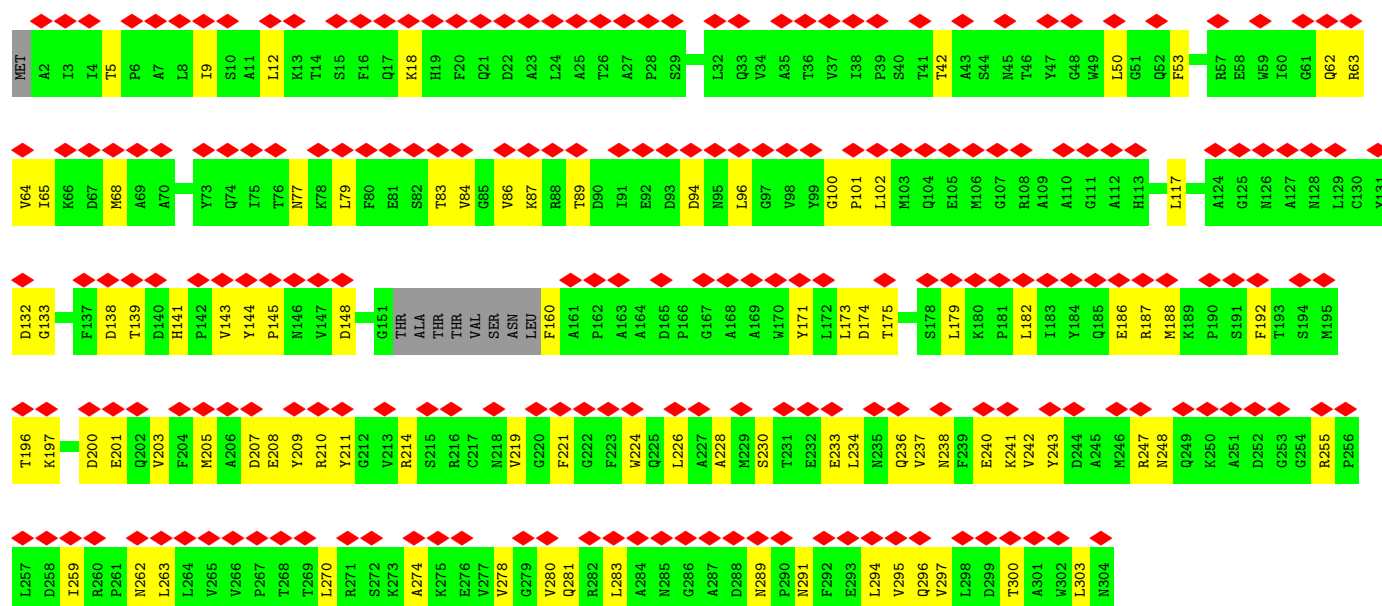
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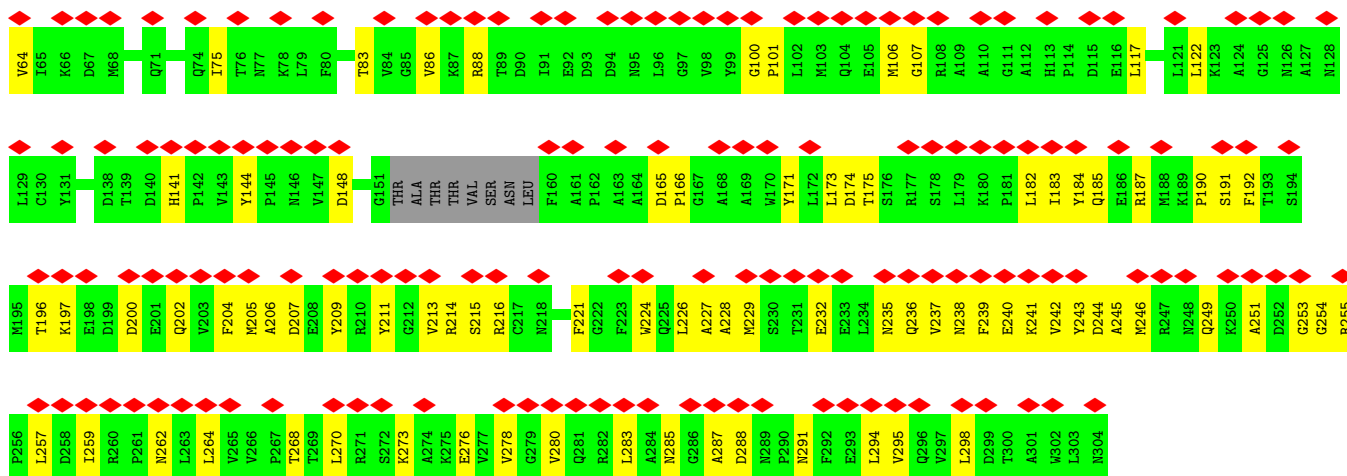


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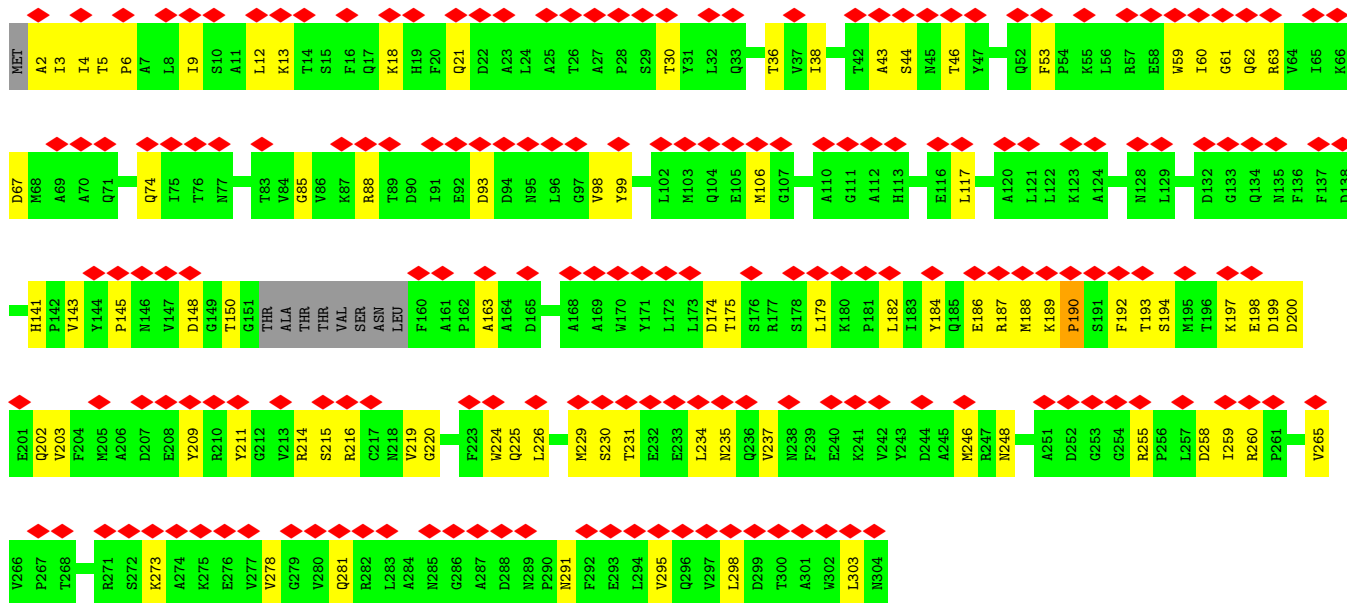


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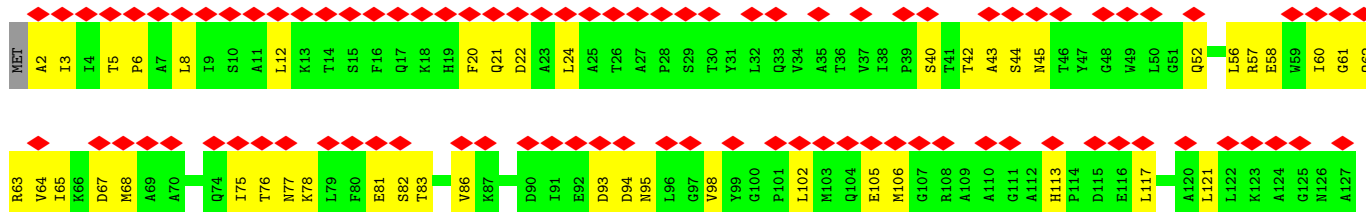


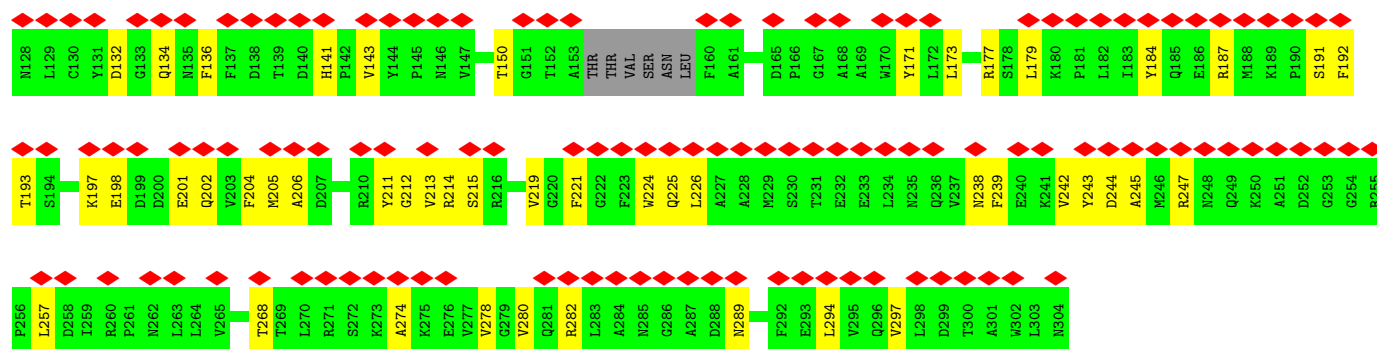


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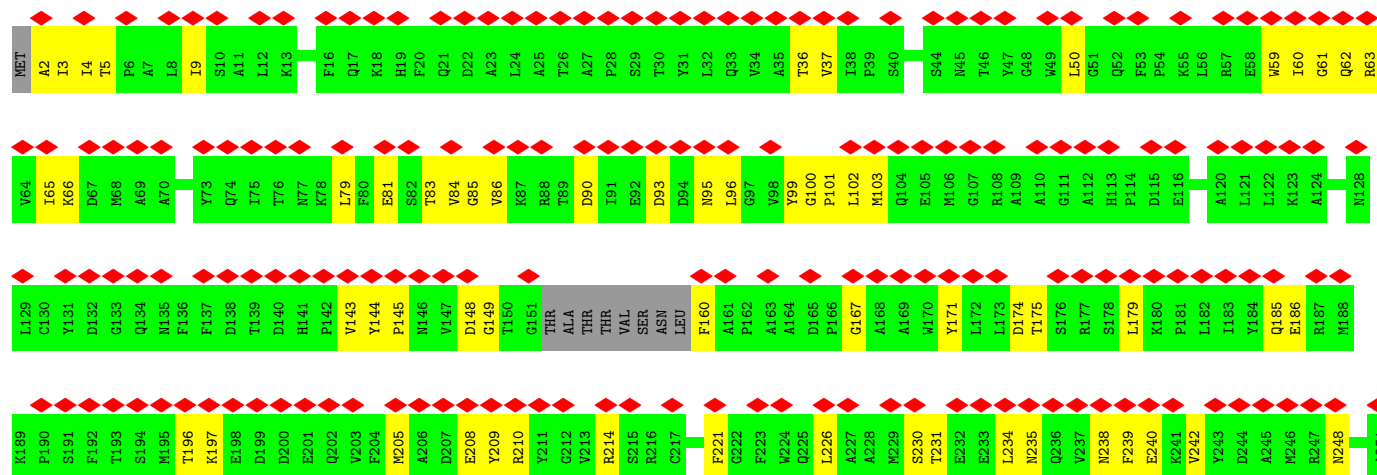
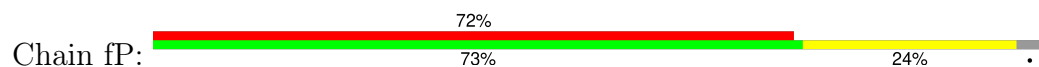


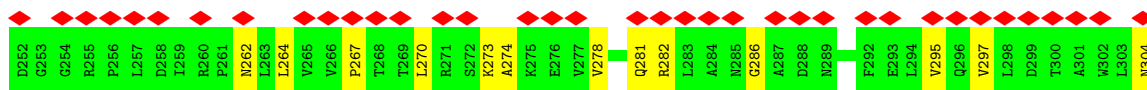


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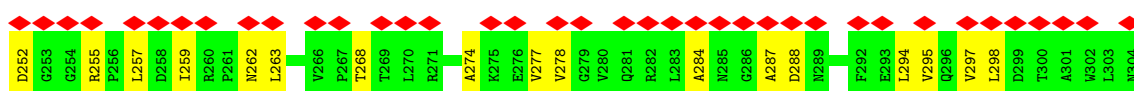
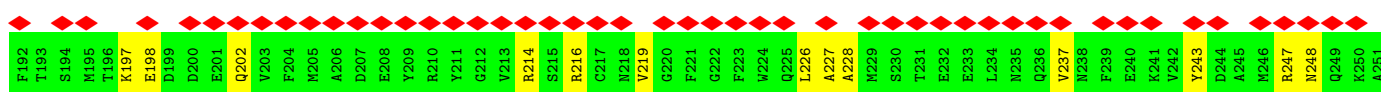
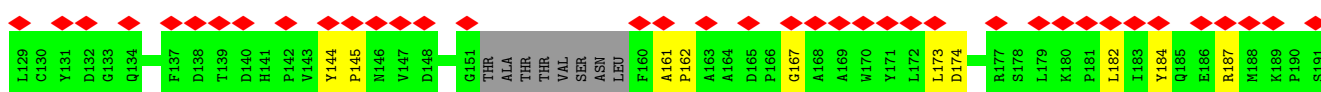
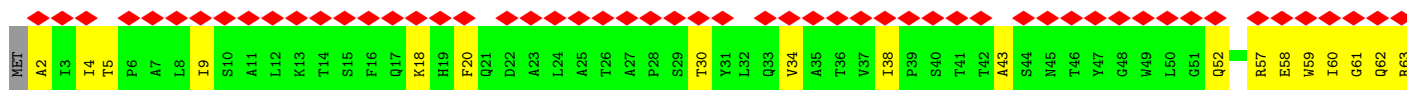
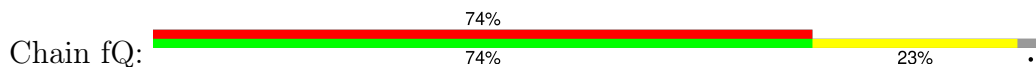


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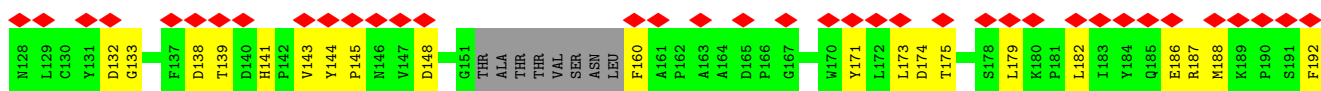
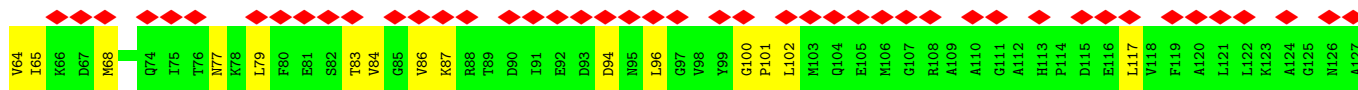
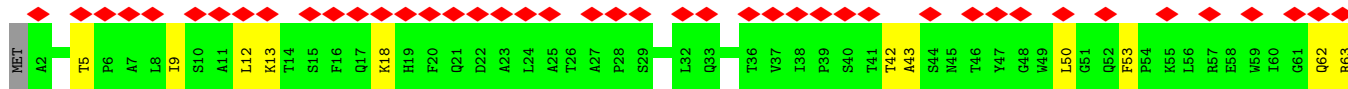




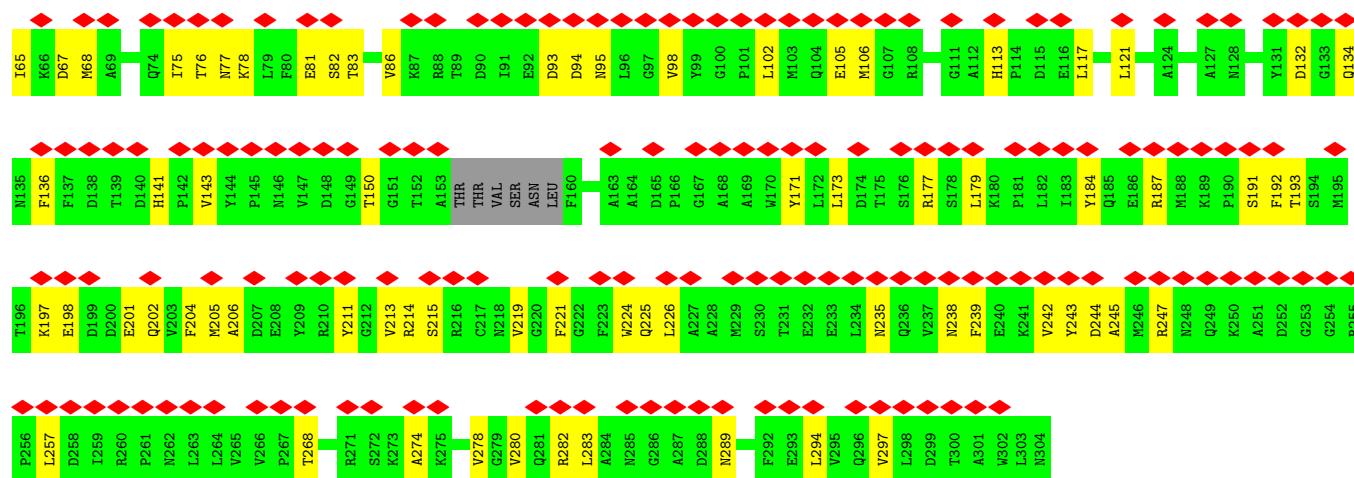
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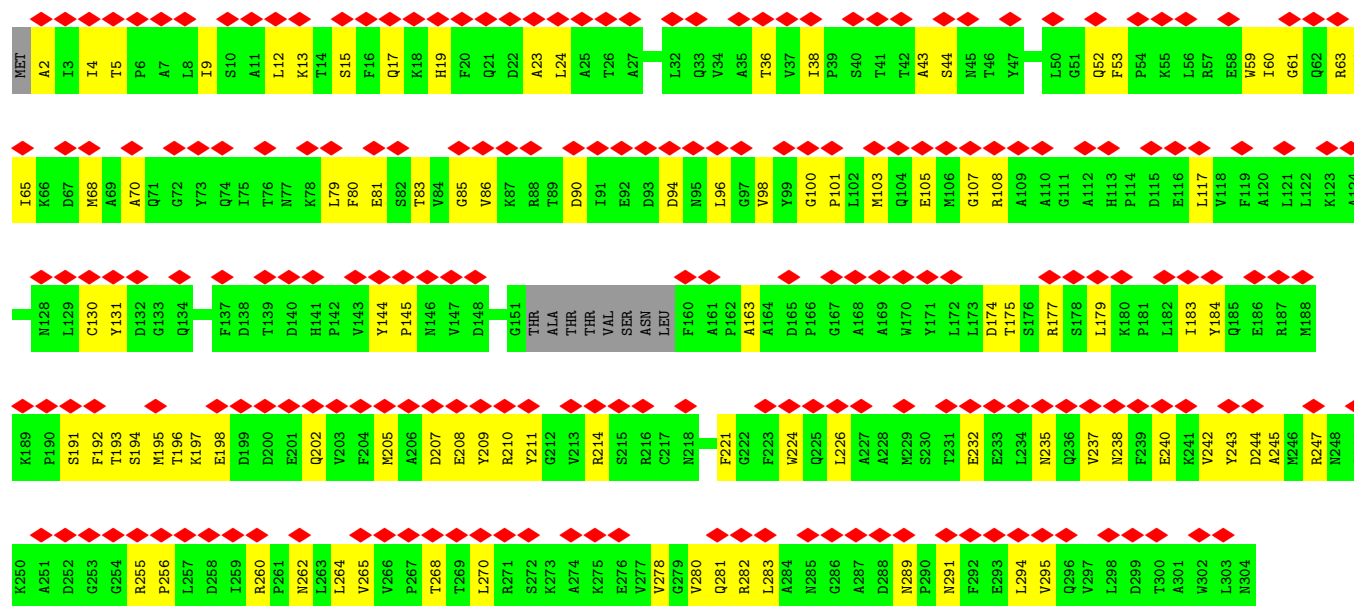
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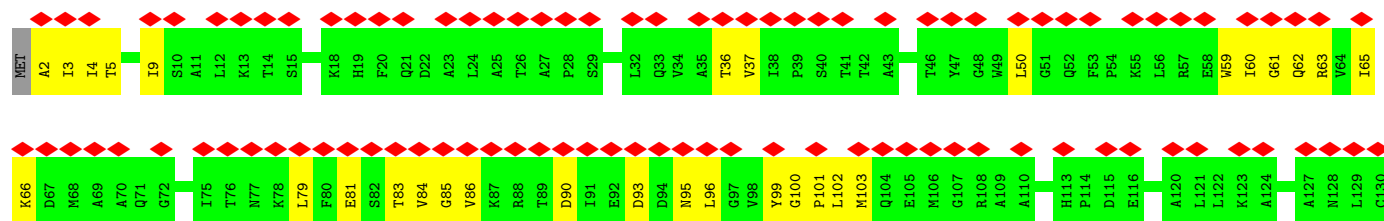
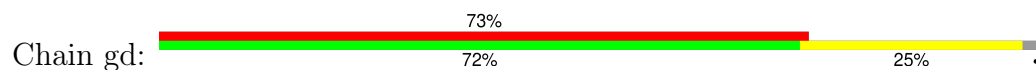
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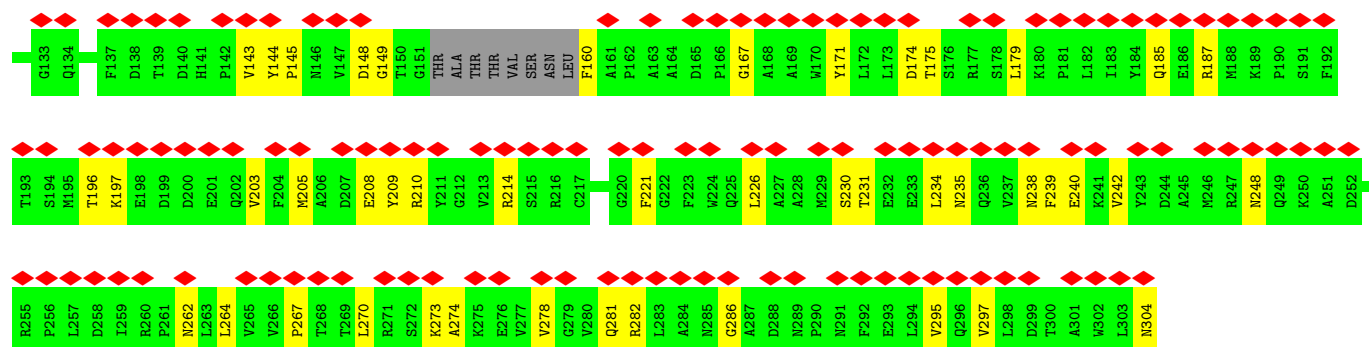


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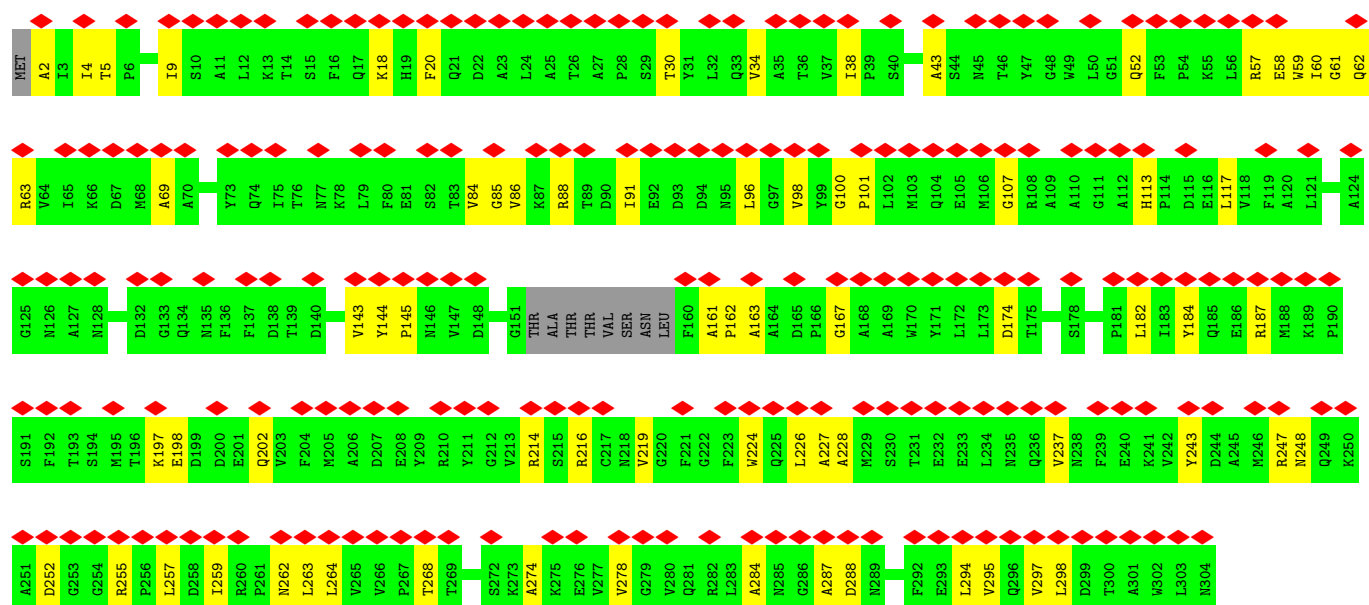
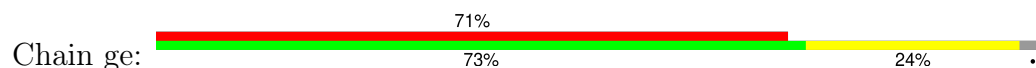


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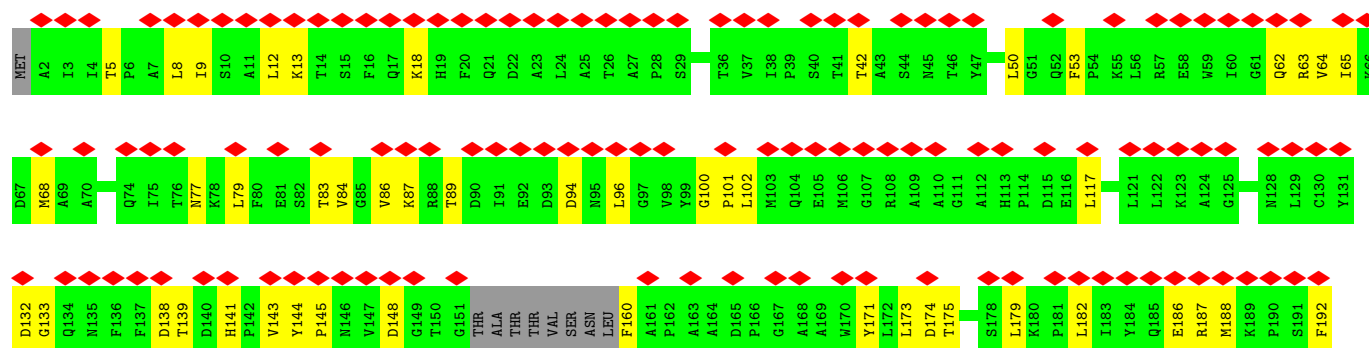


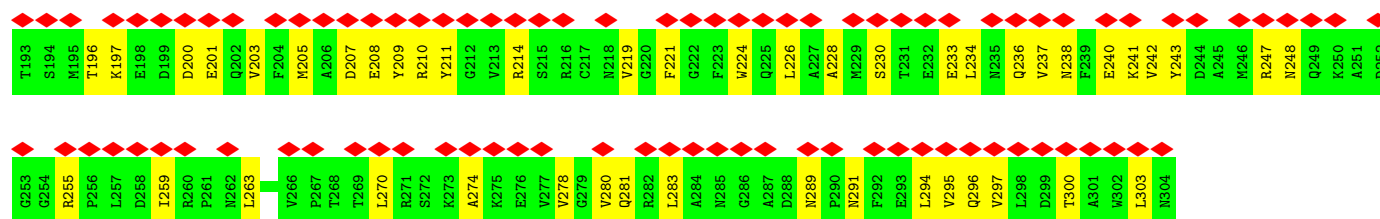


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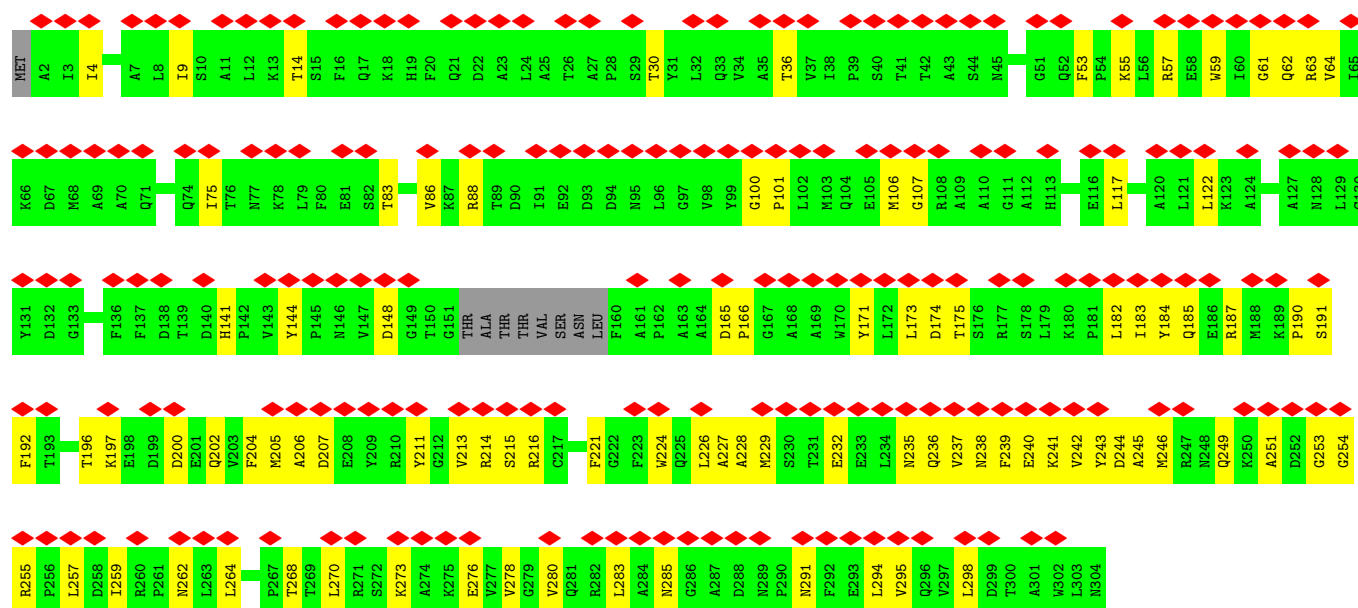


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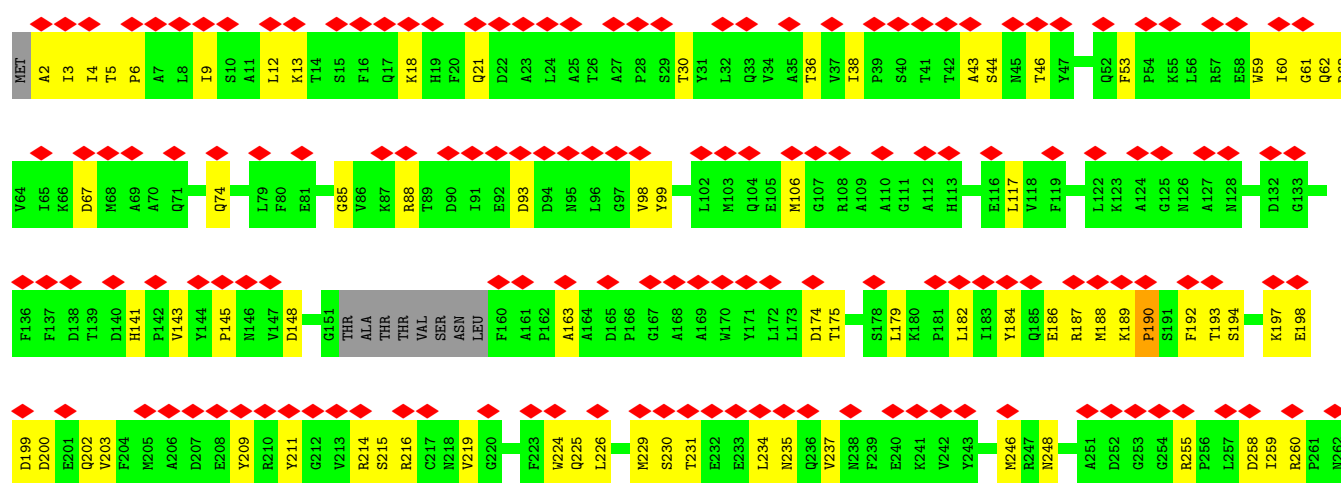


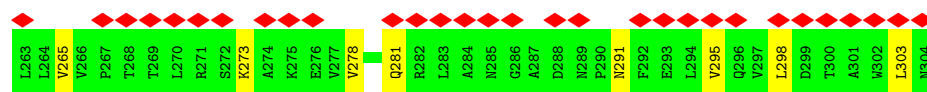


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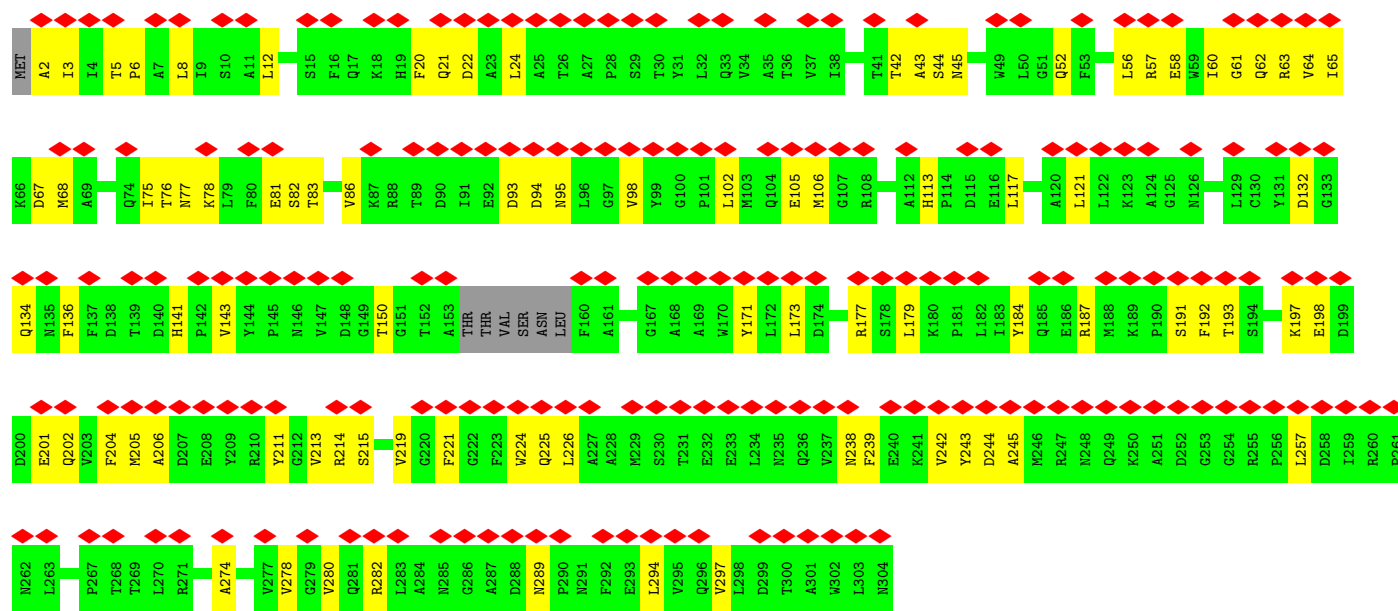


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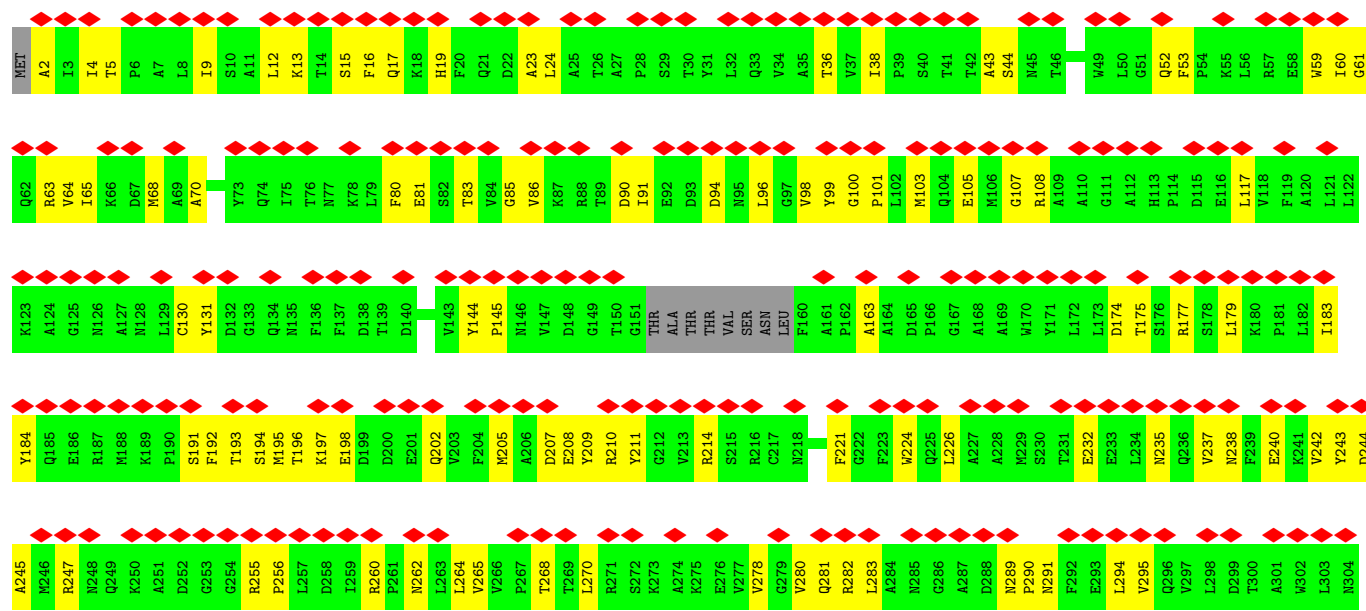
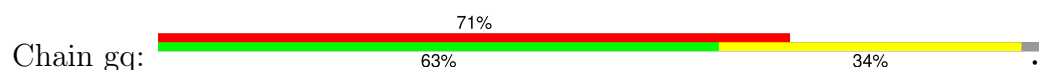




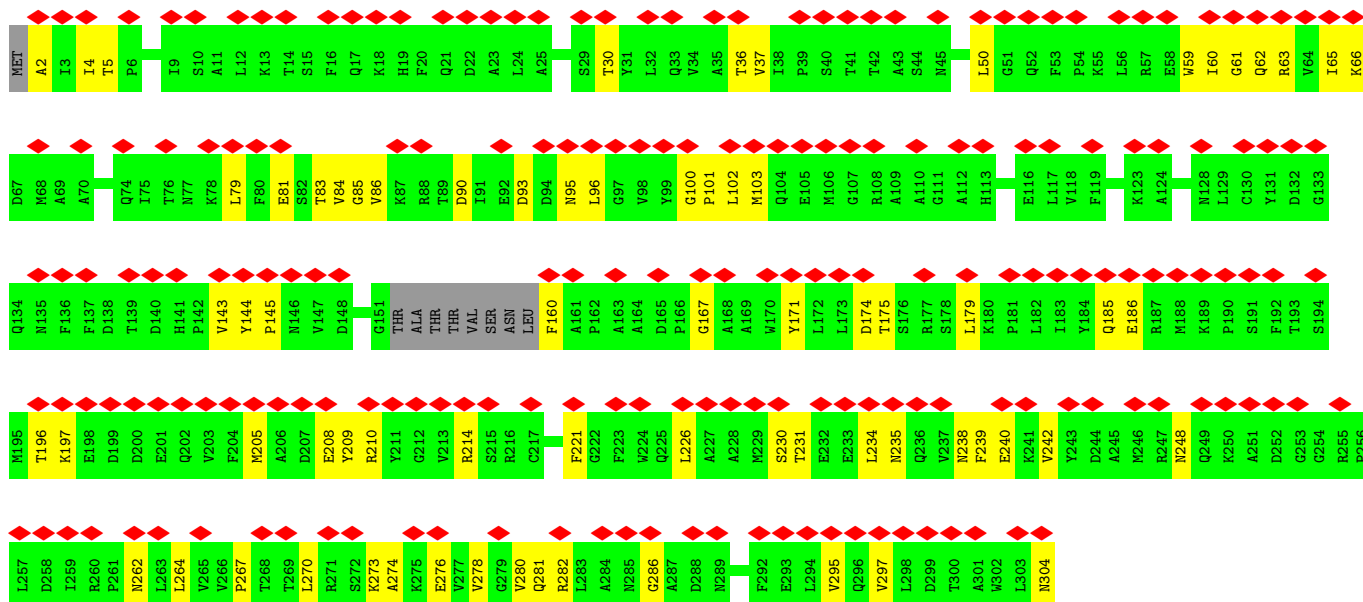
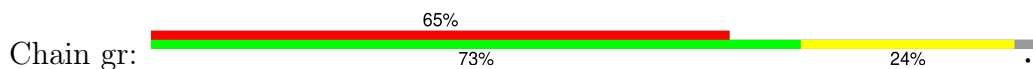
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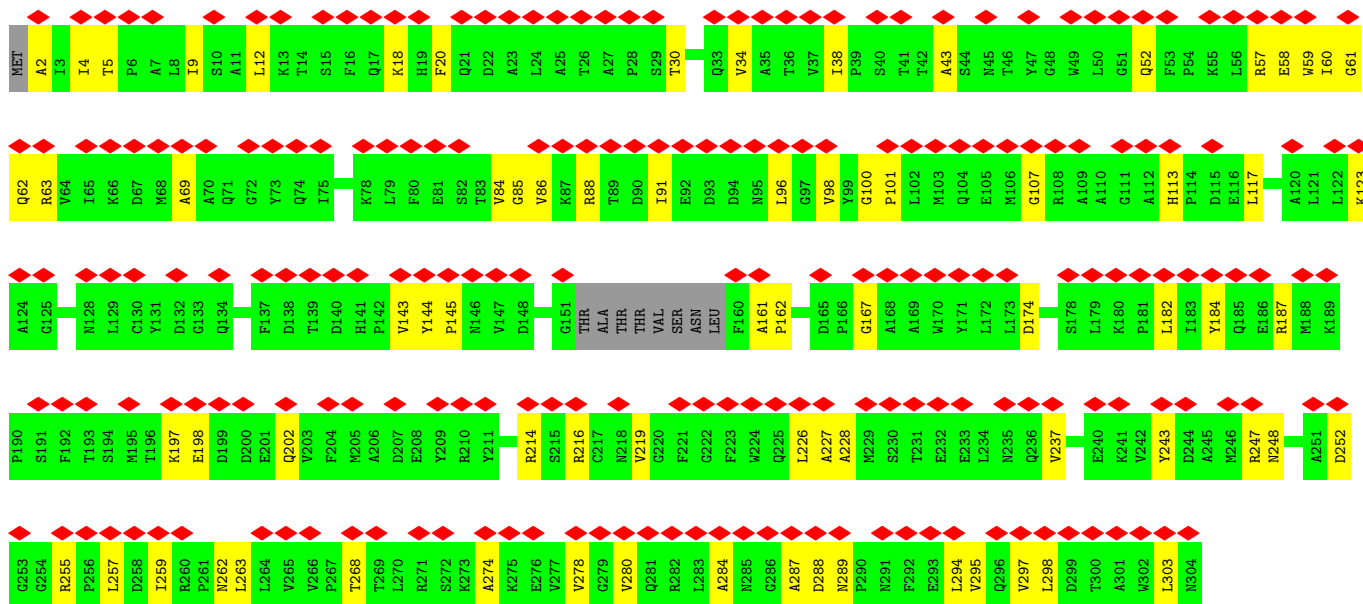
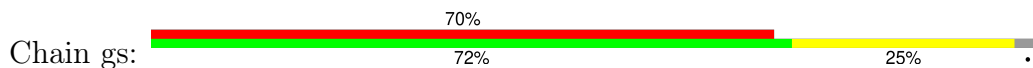
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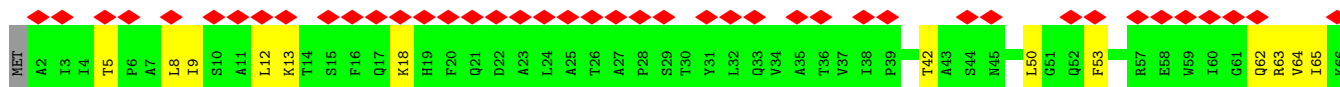
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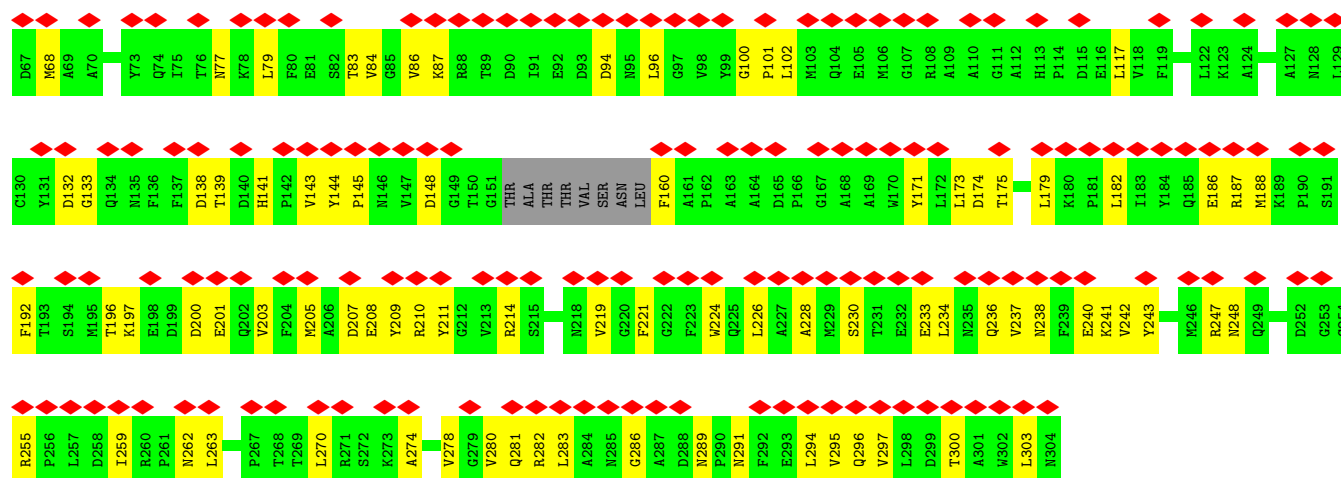


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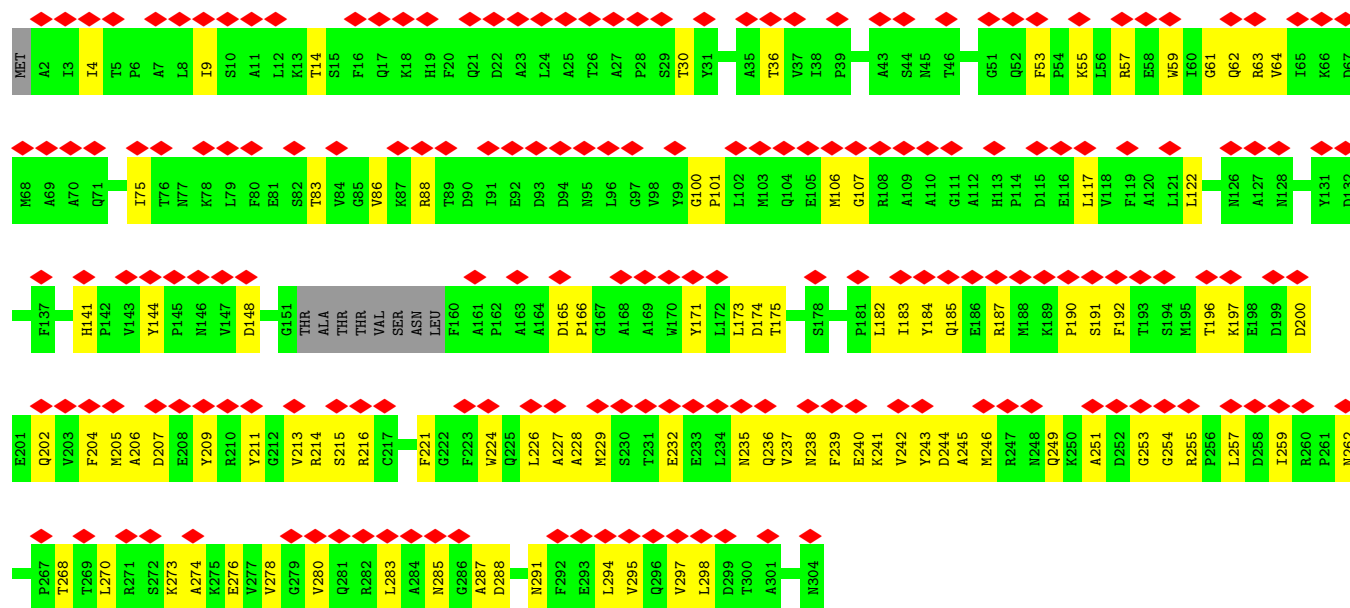


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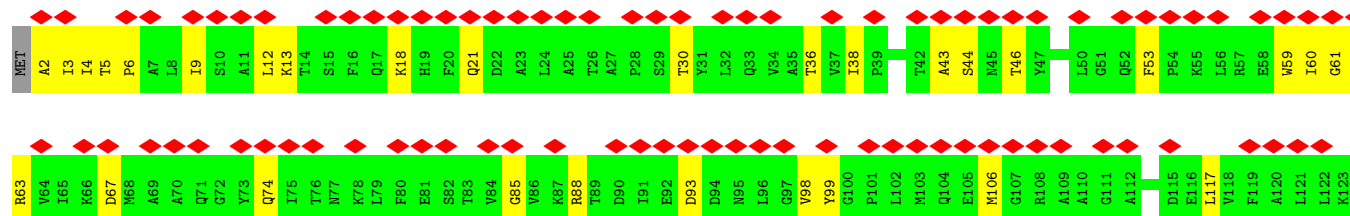
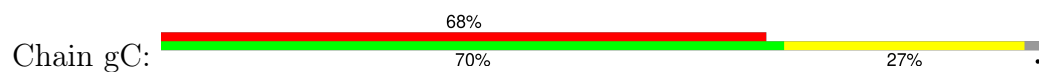


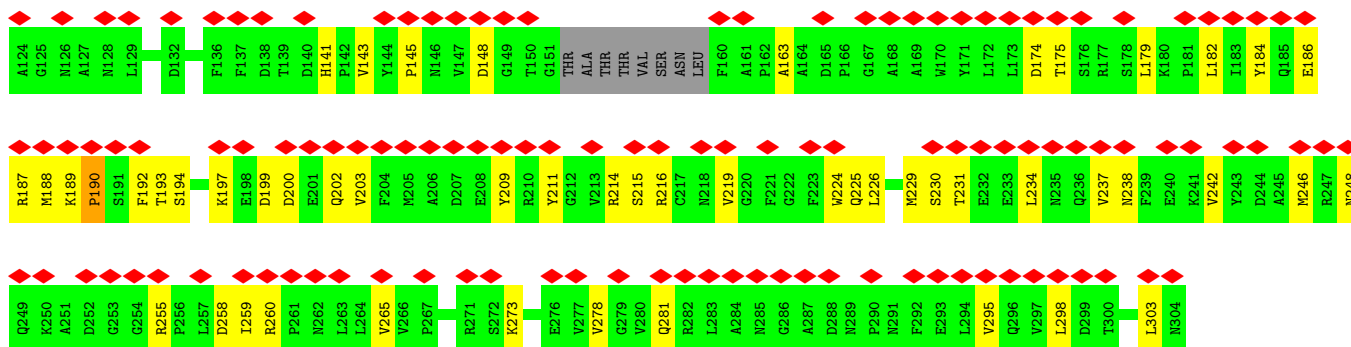


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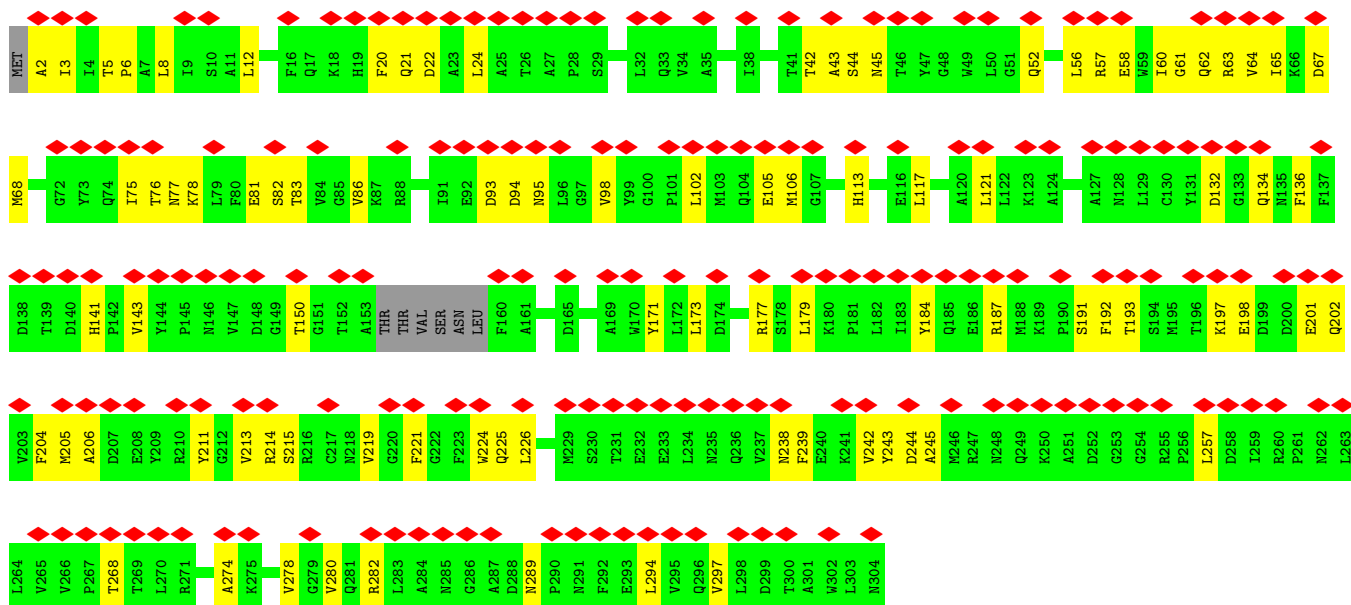


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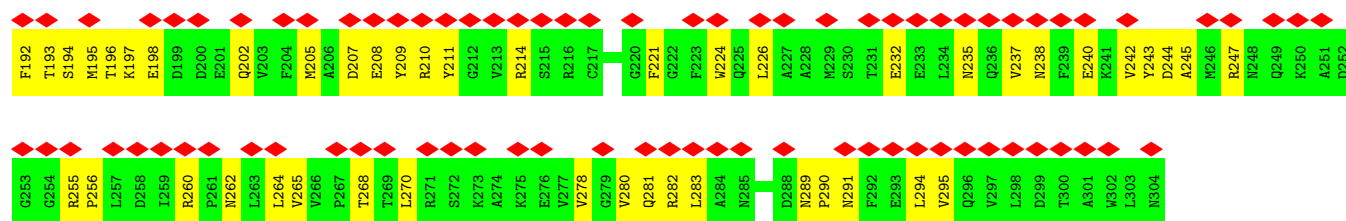


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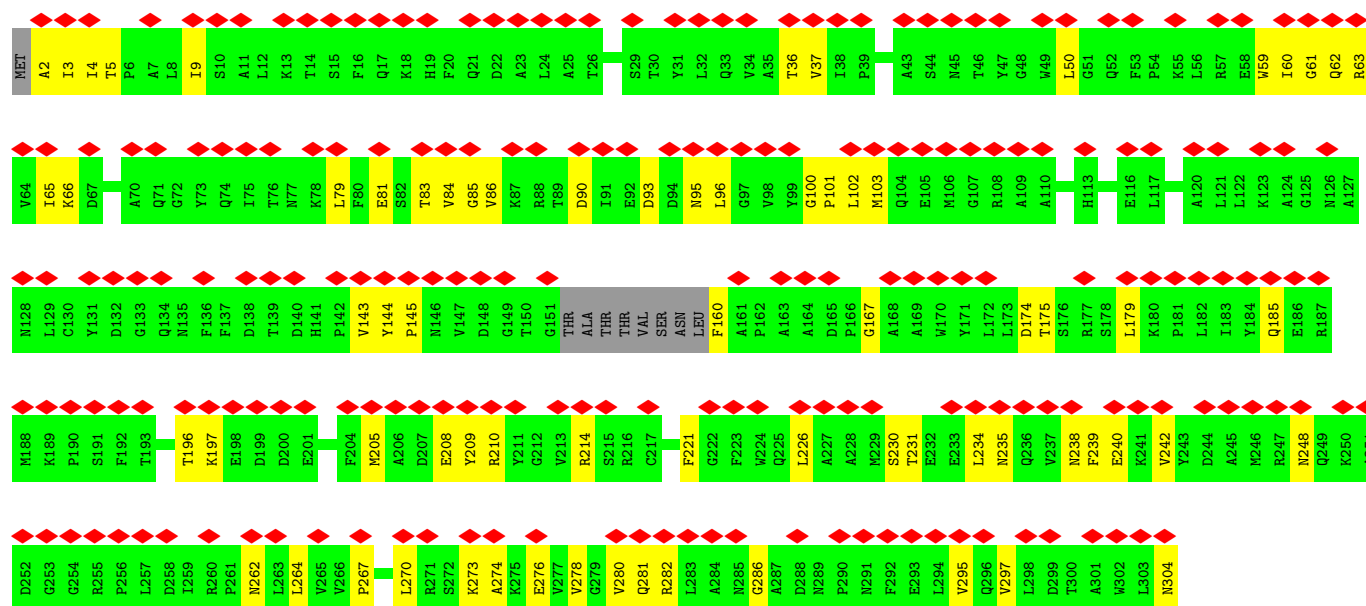
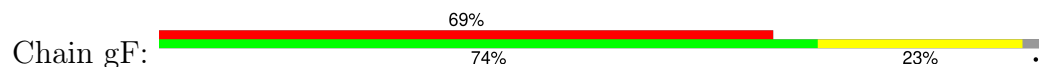


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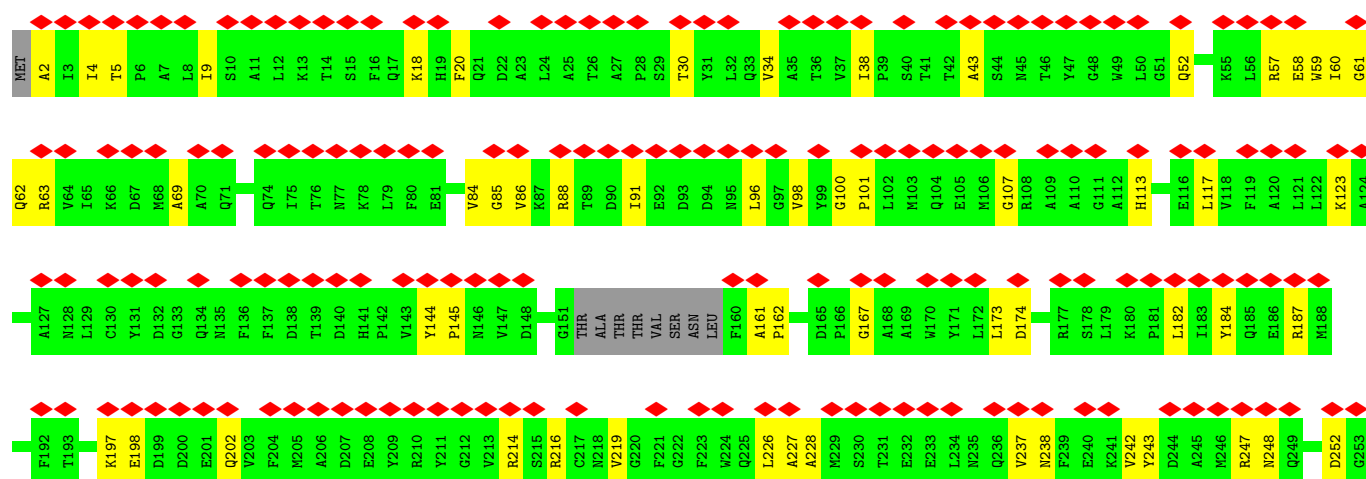
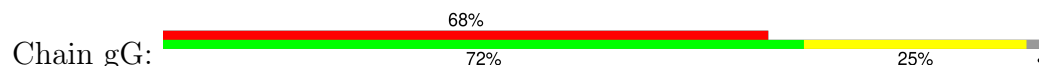


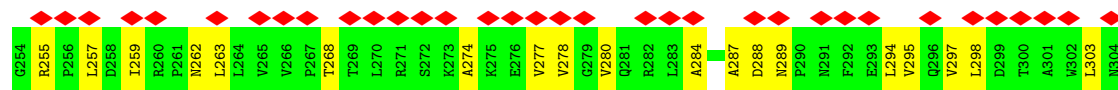


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

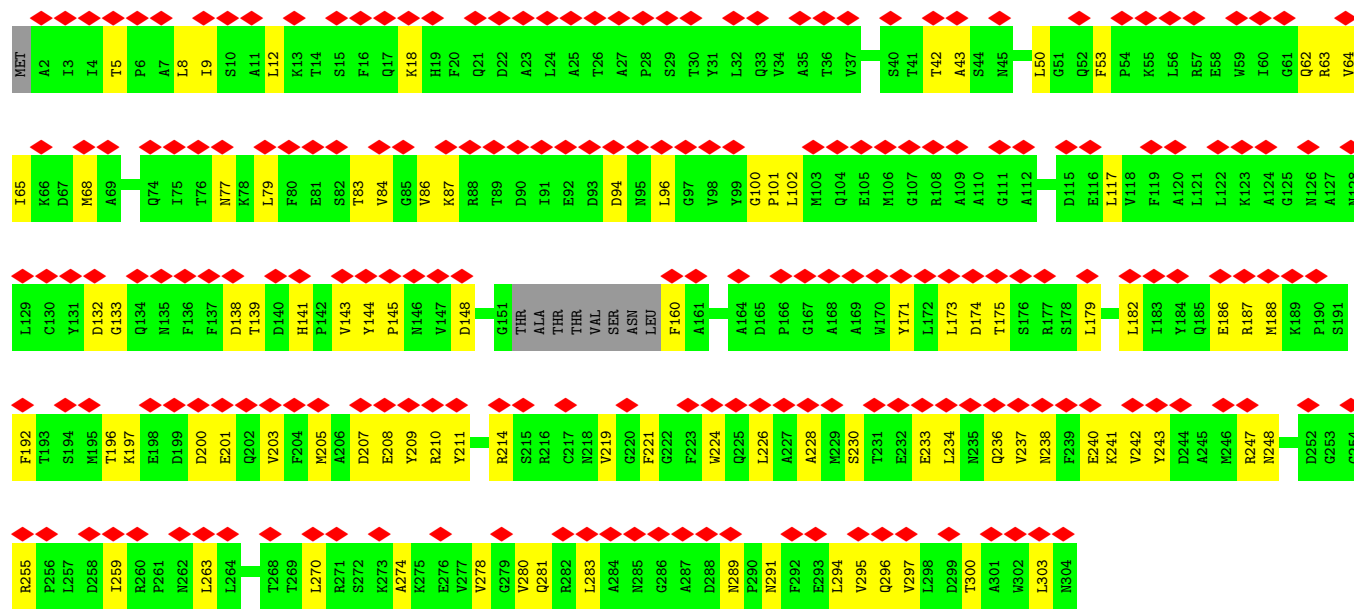


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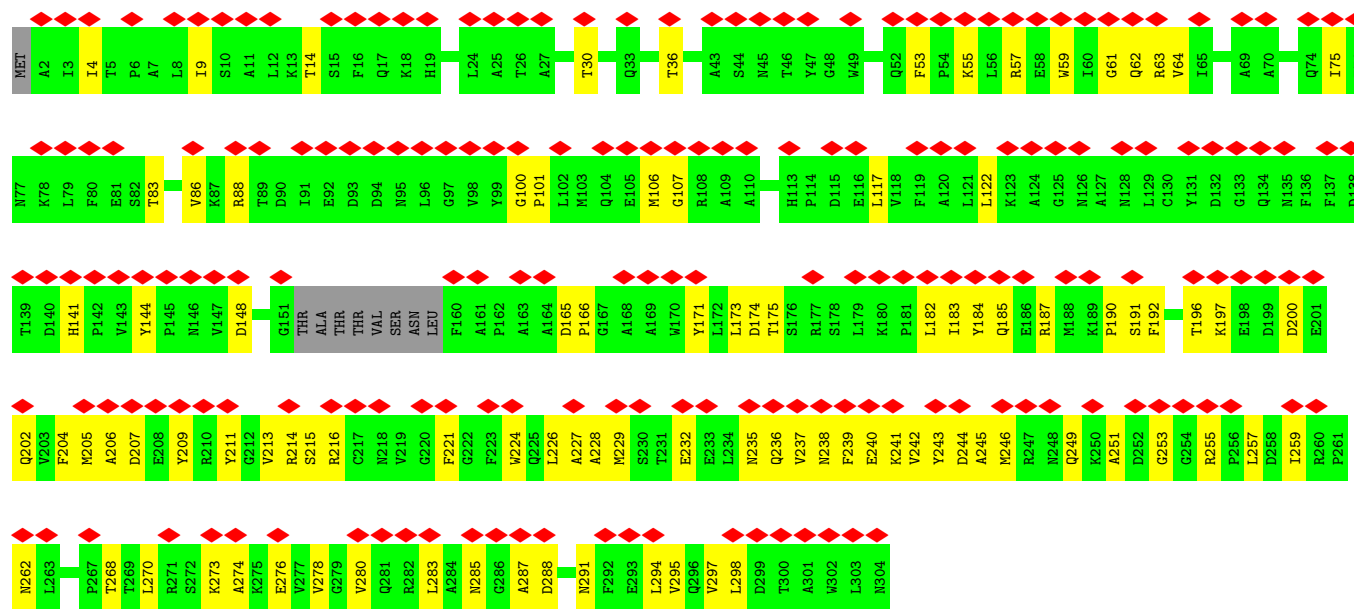




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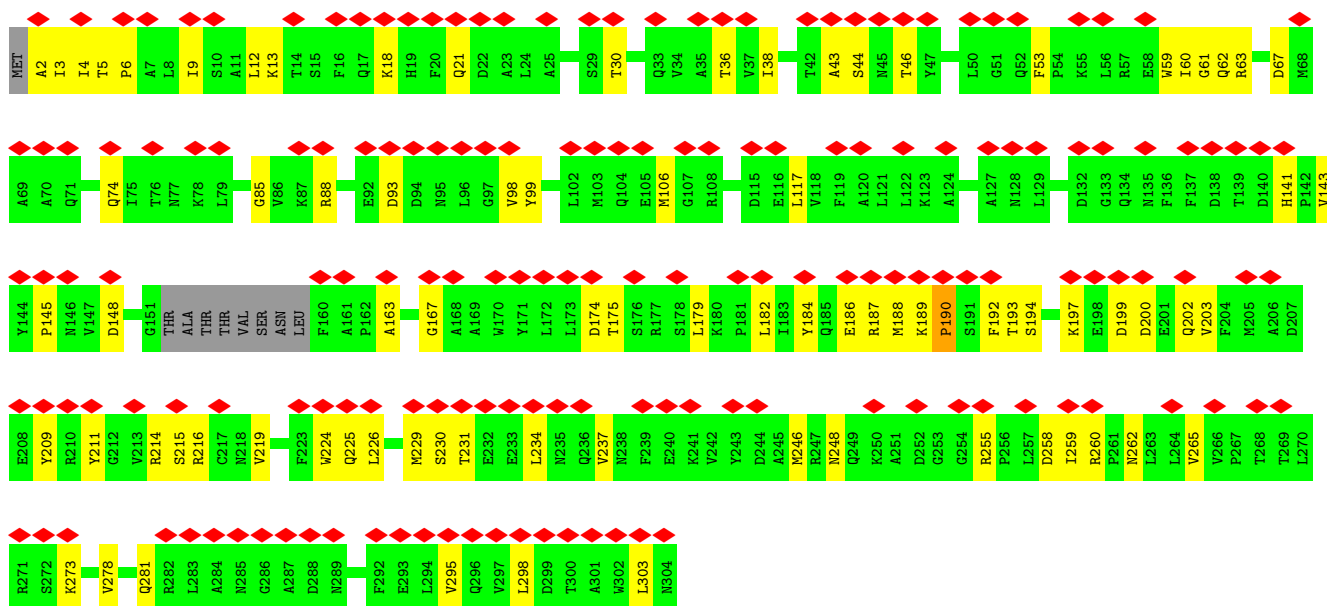


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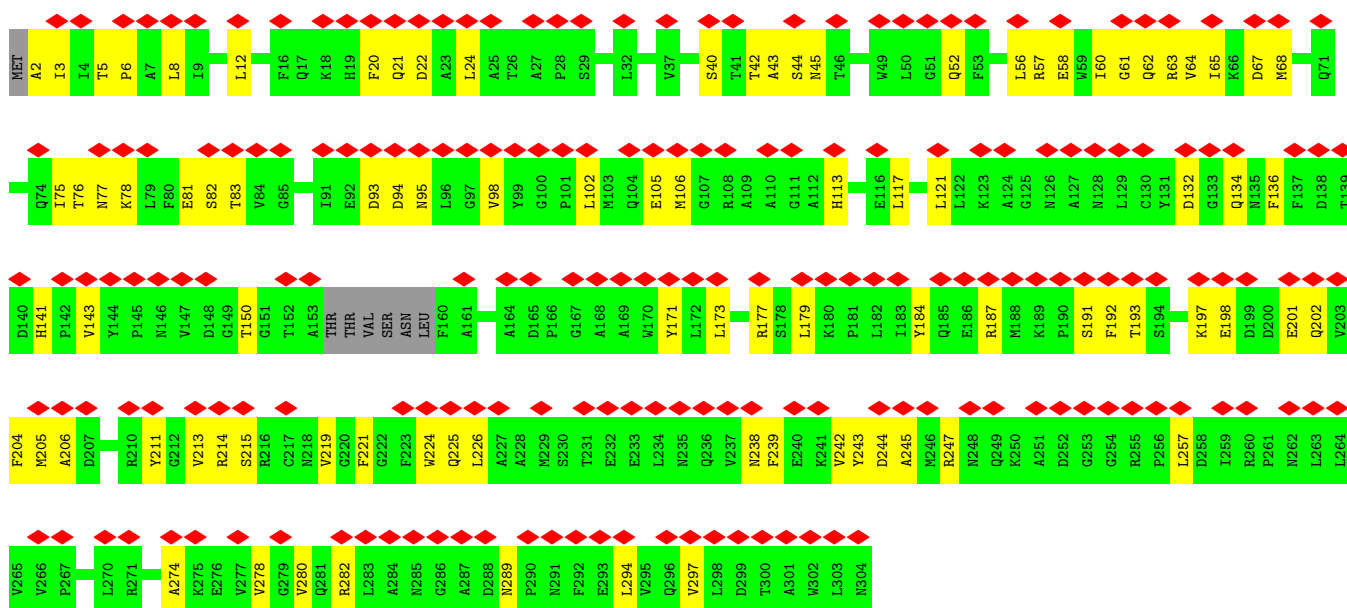
• Molecule 2: Bacteriophage Mu GpT domain-containing protein

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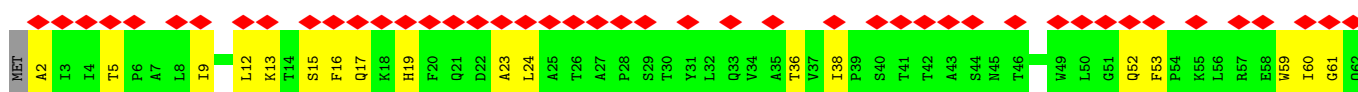
• Molecule 2: Bacteriophage Mu GpT domain-containing protein

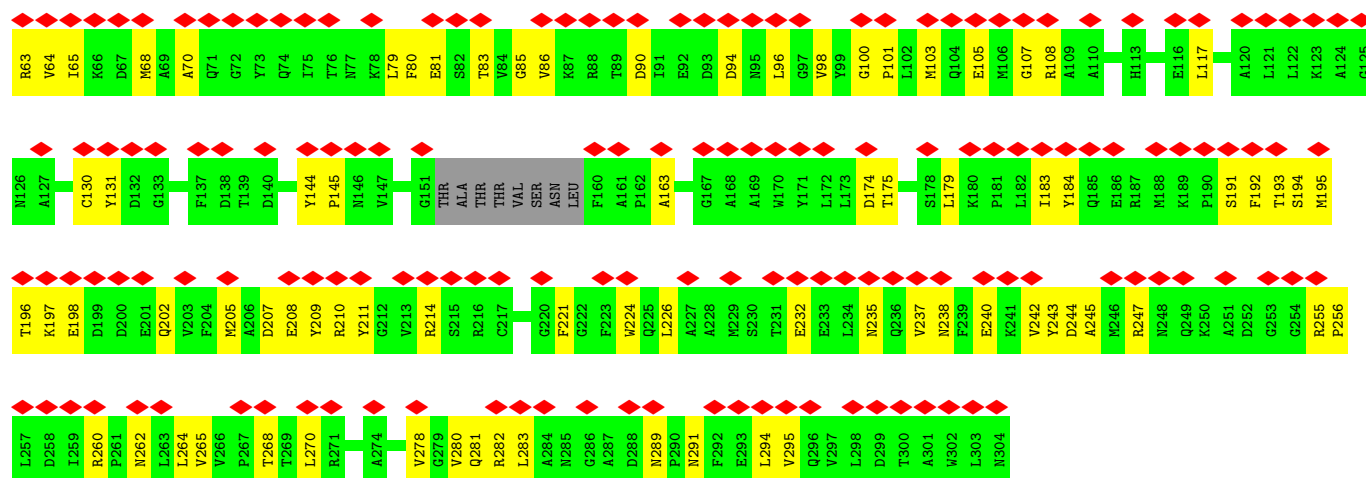
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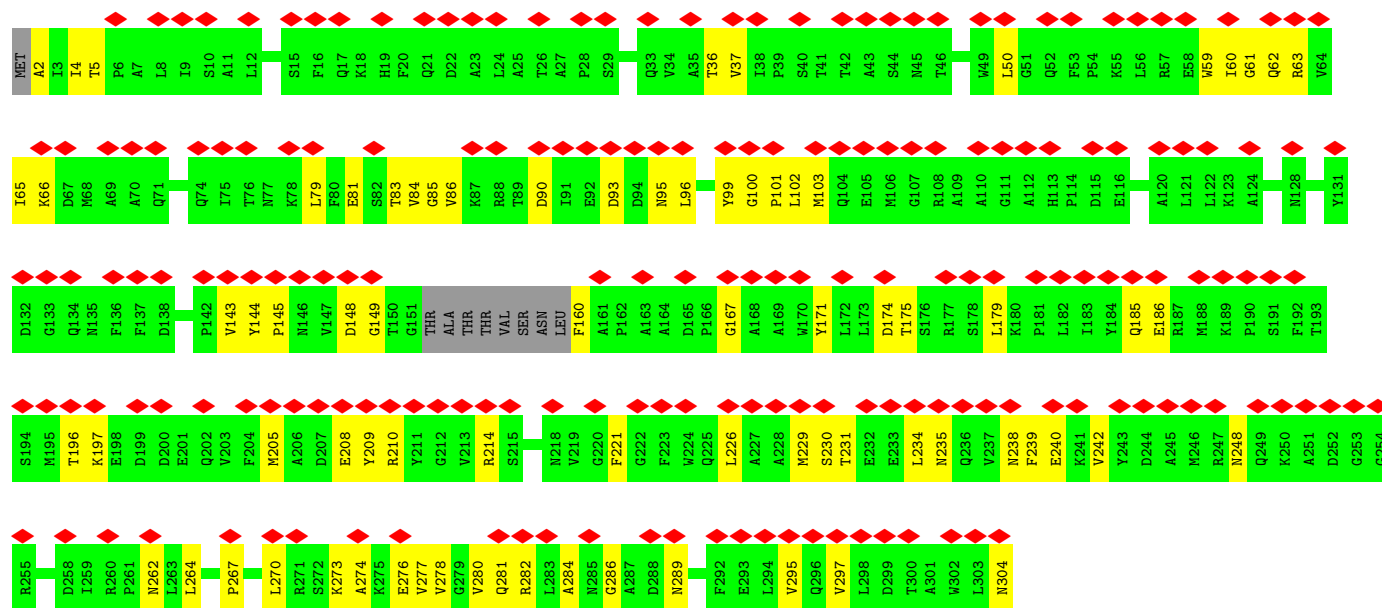
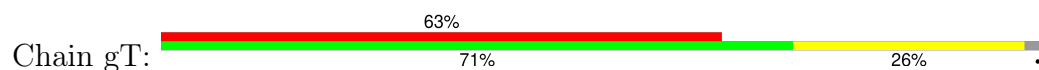
• Molecule 2: Bacteriophage Mu GpT domain-containing protein

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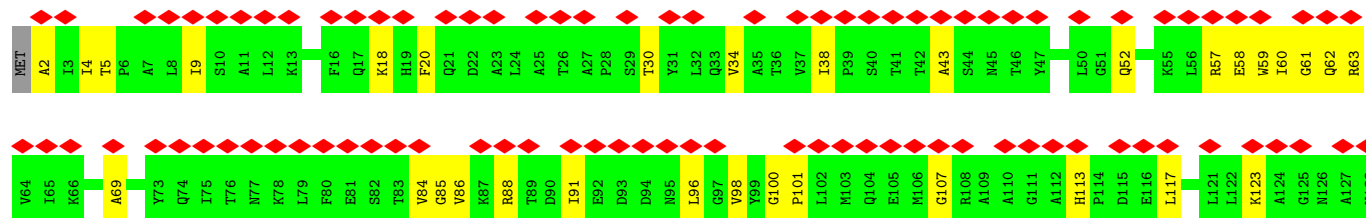
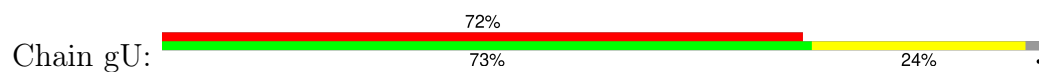


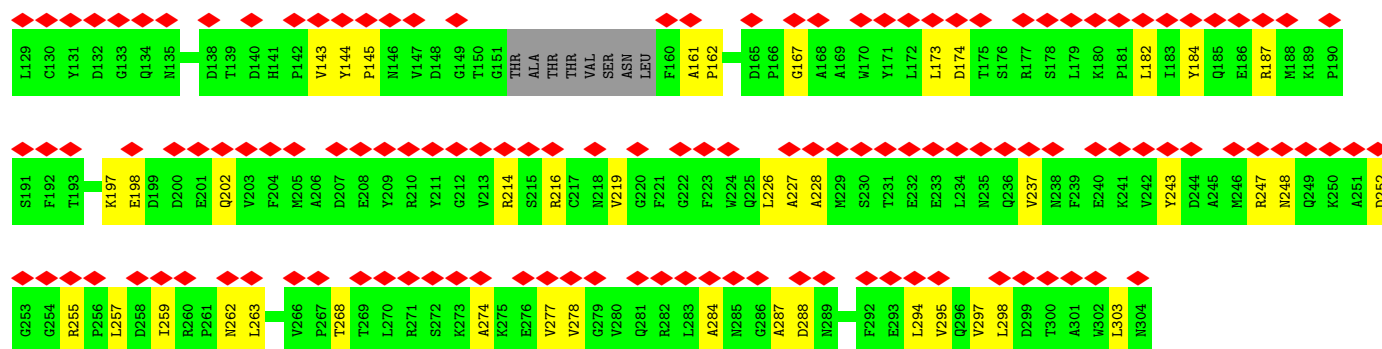


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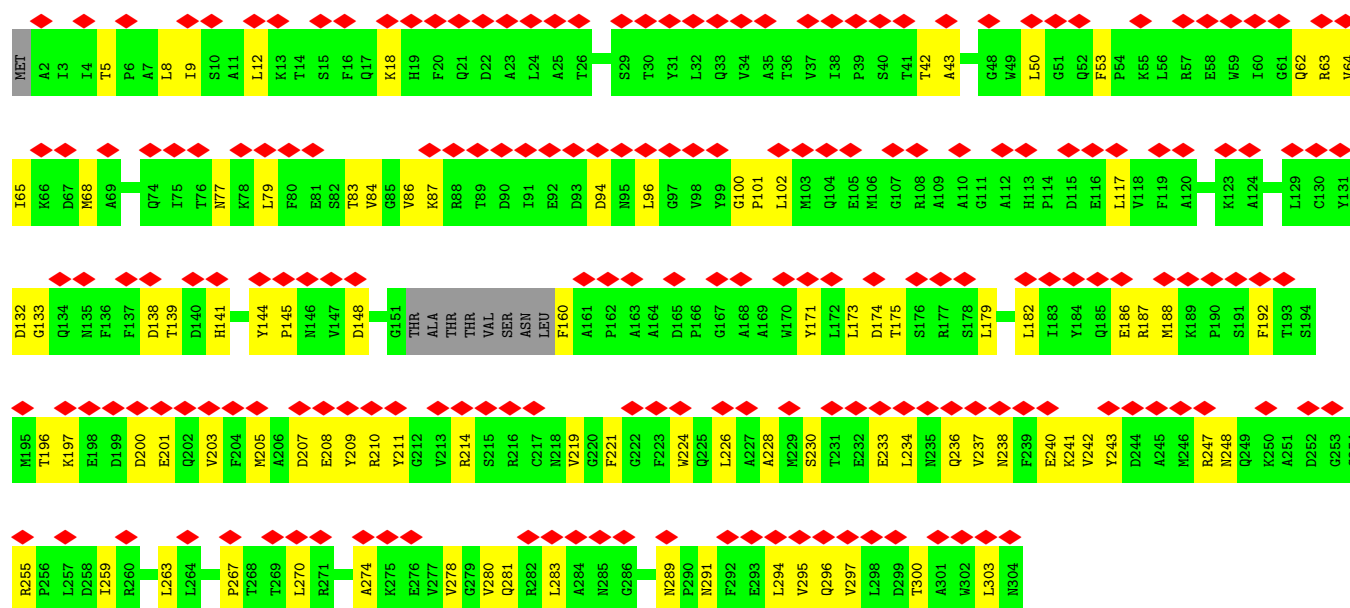


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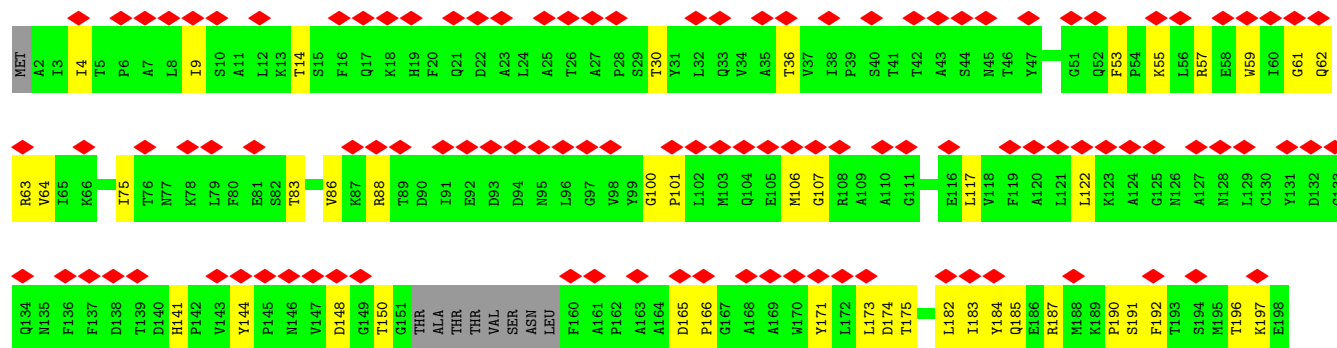


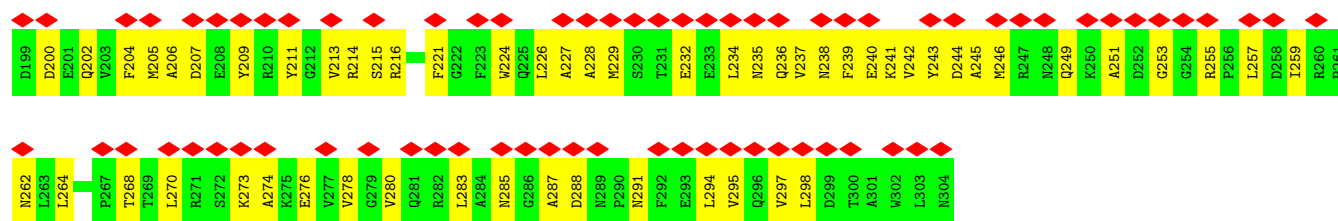


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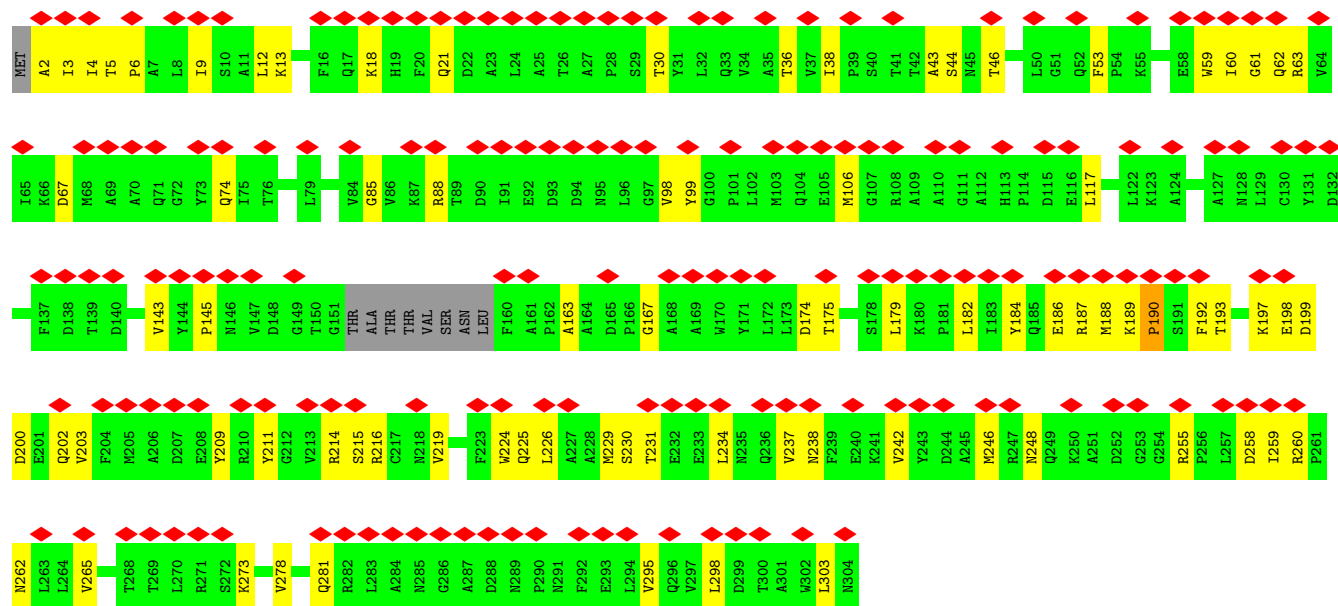


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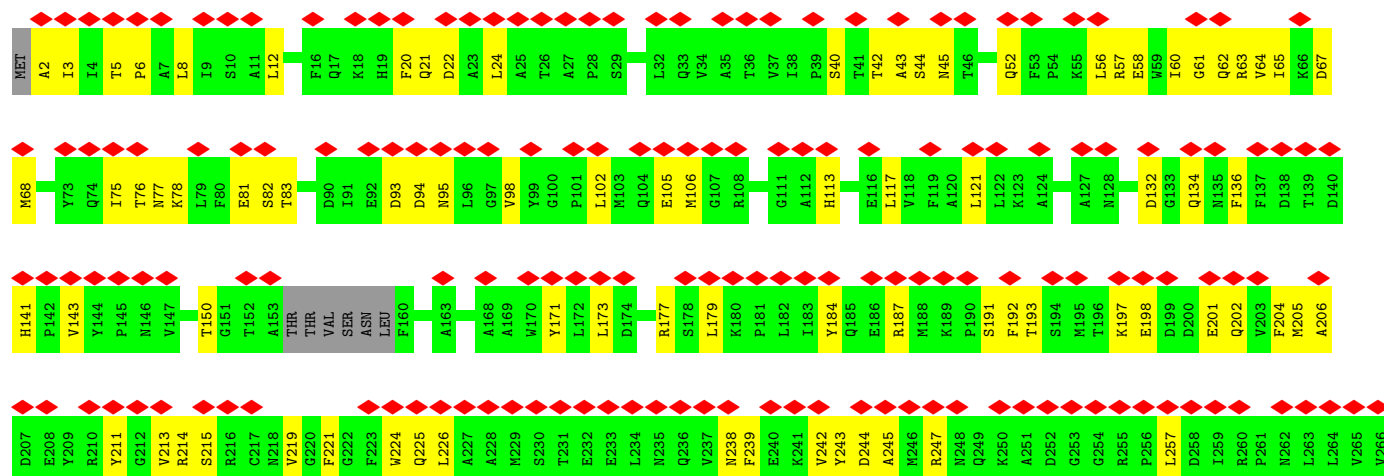


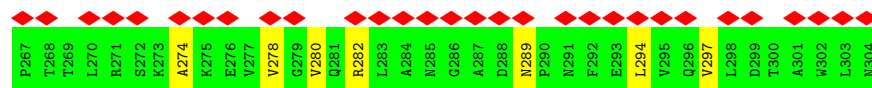


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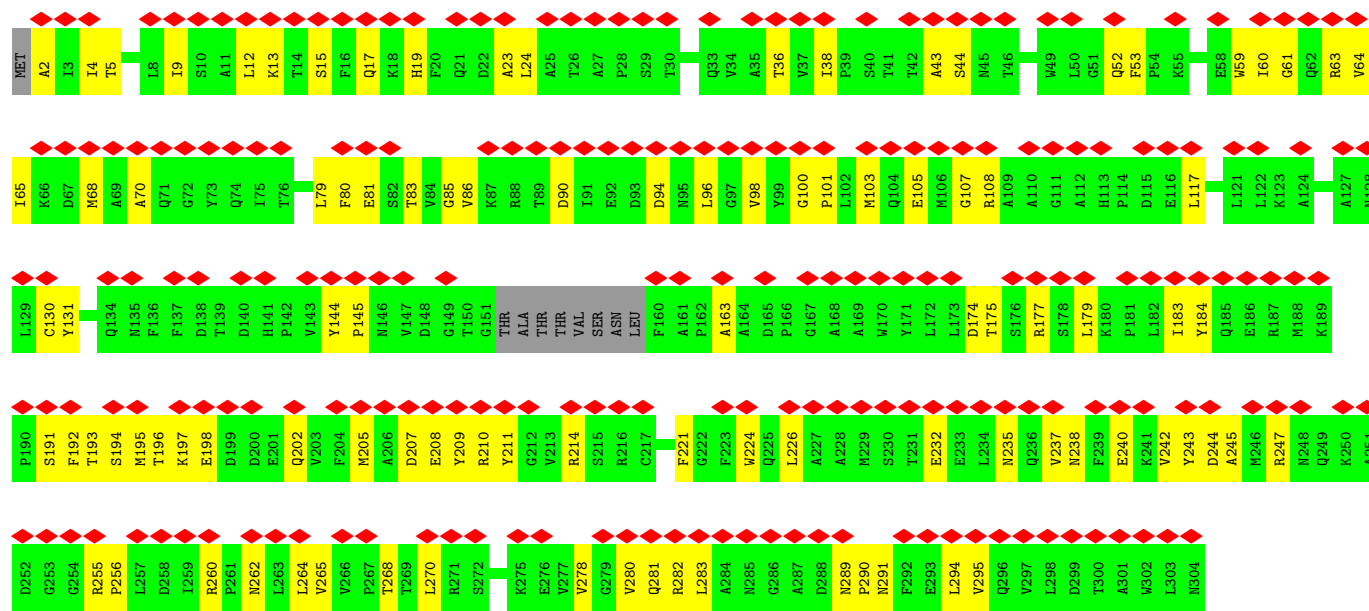
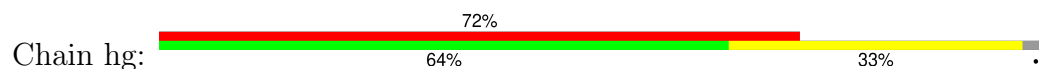


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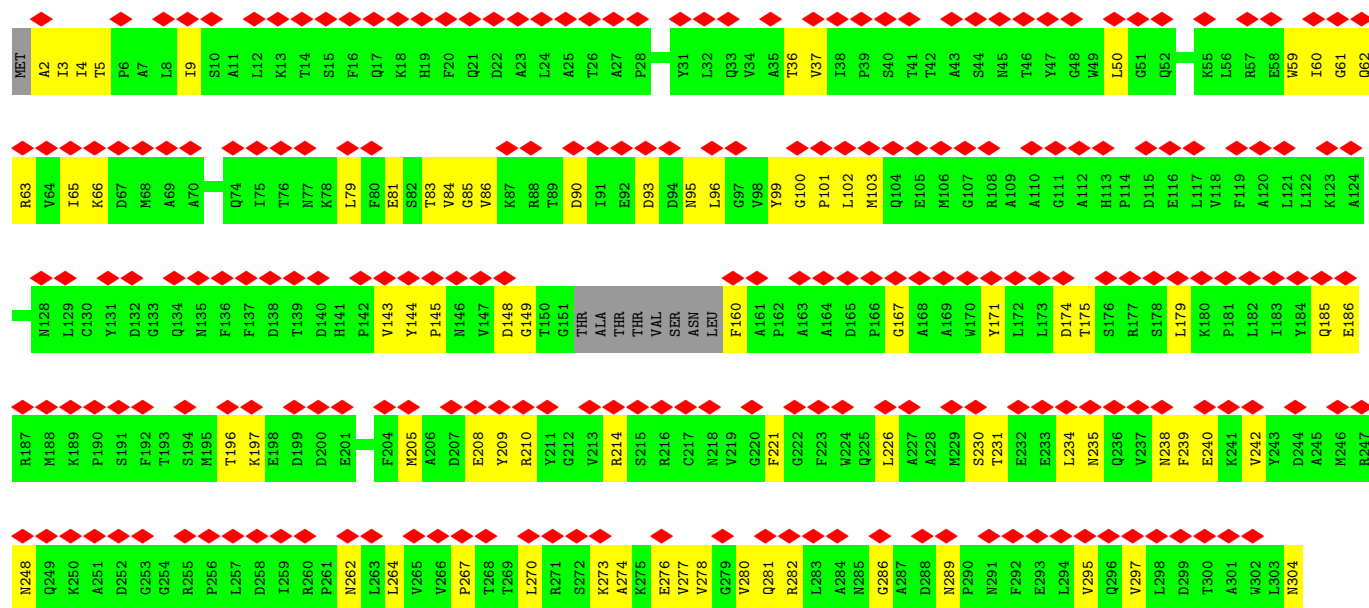
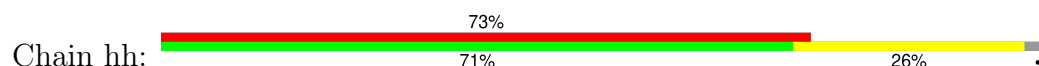




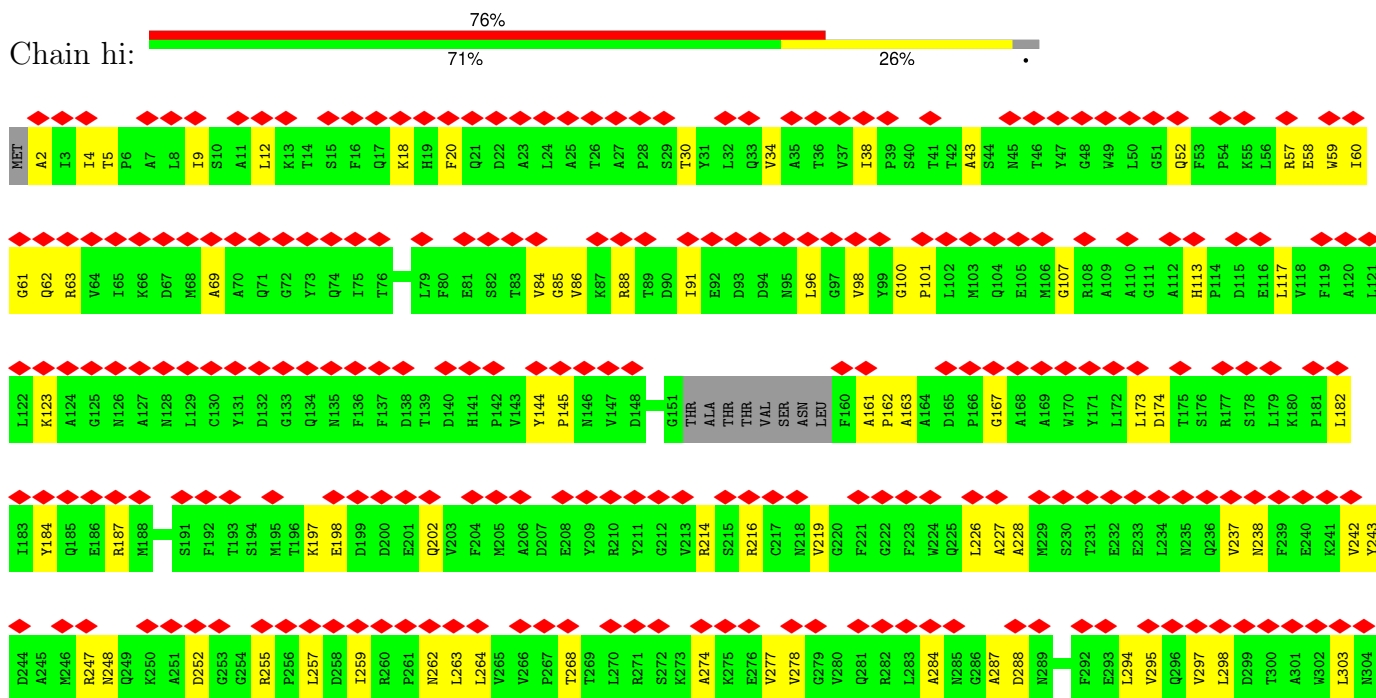
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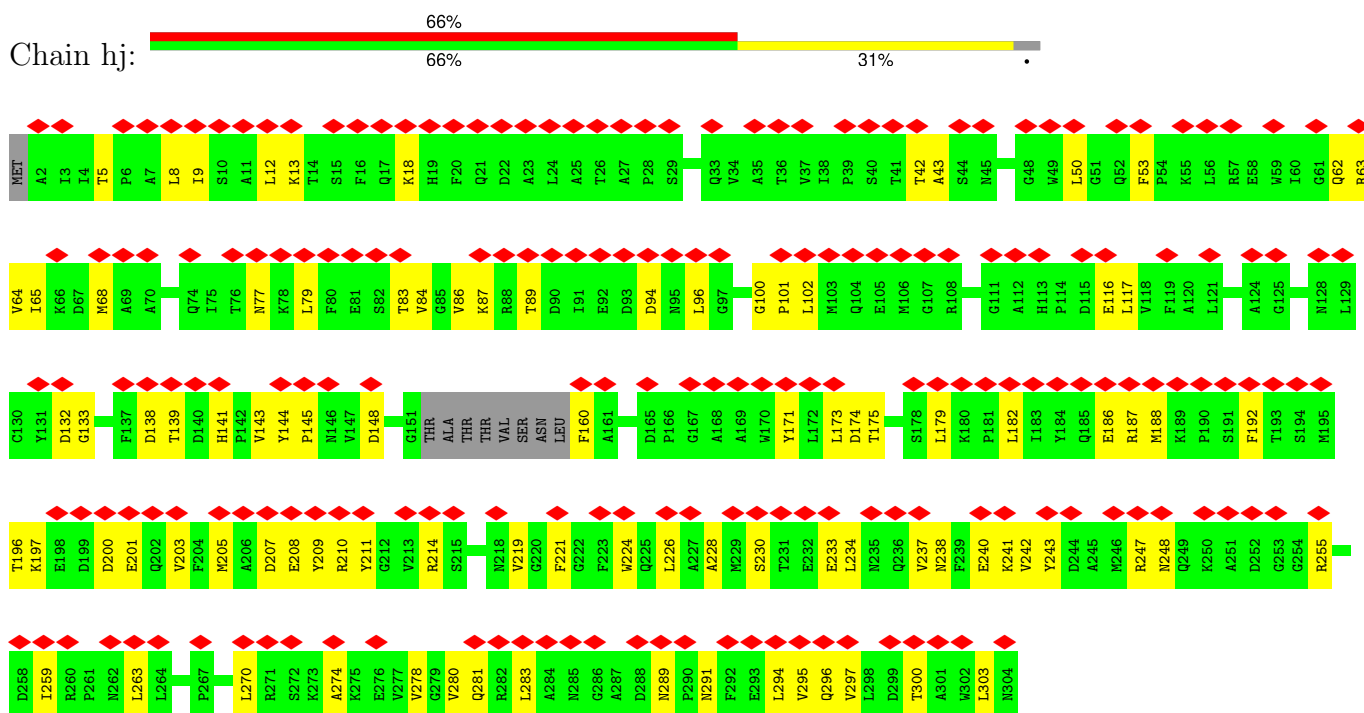
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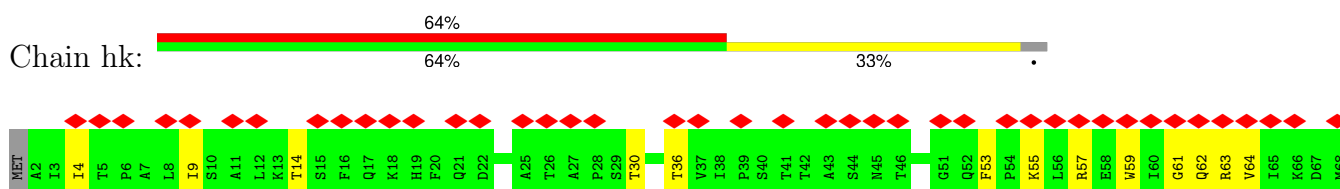
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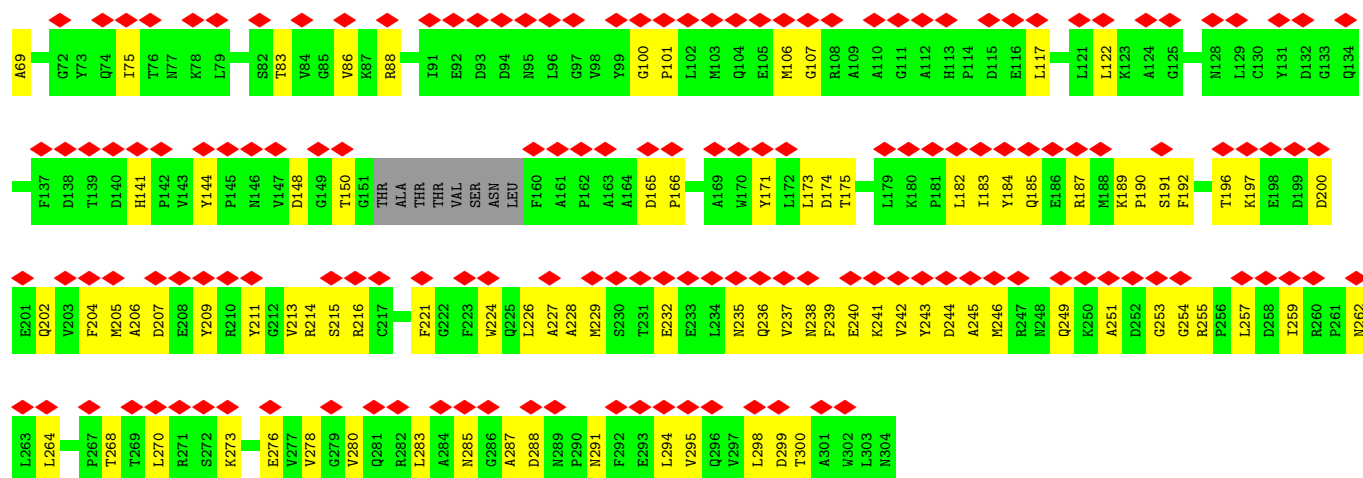


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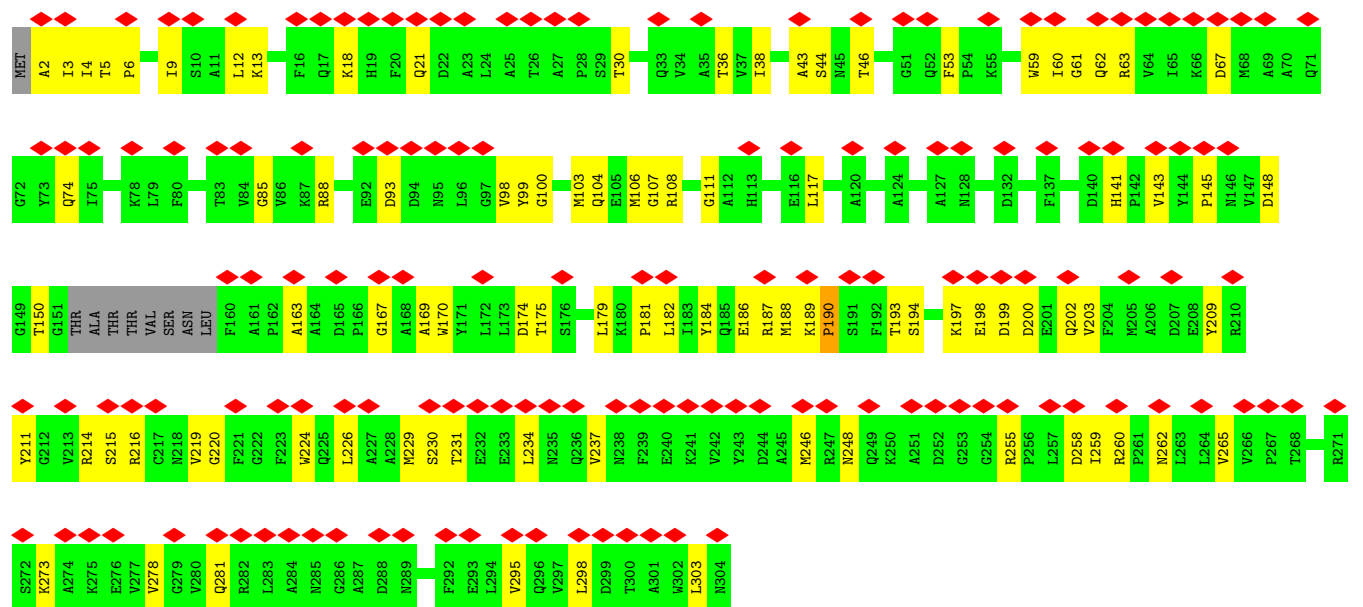


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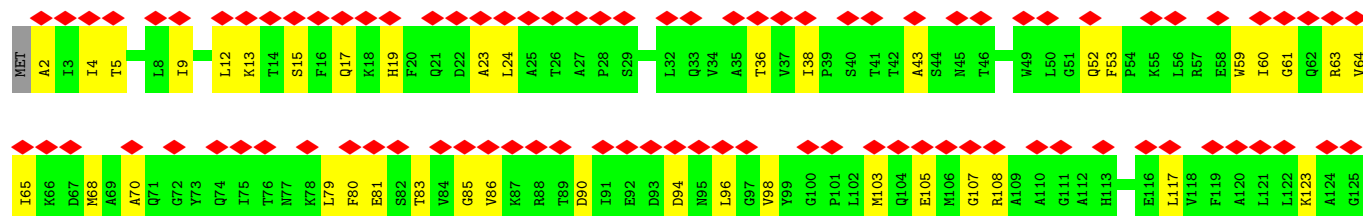


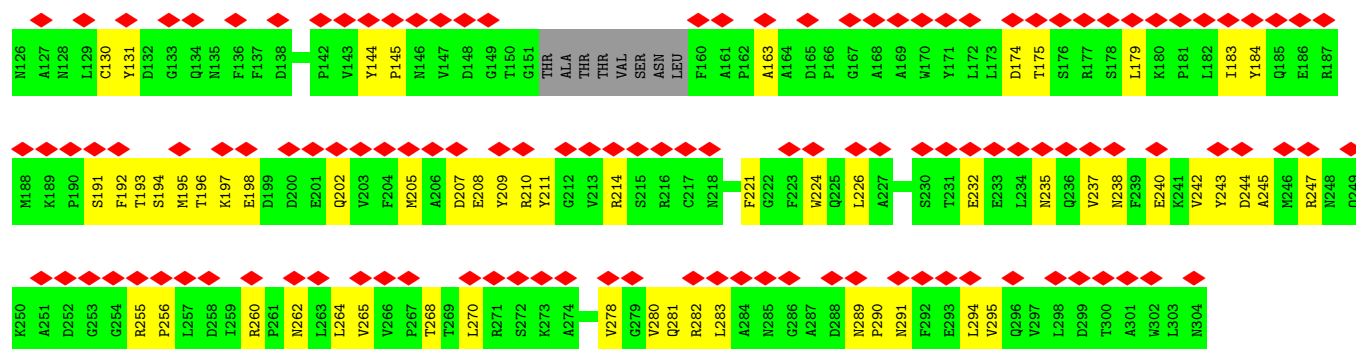


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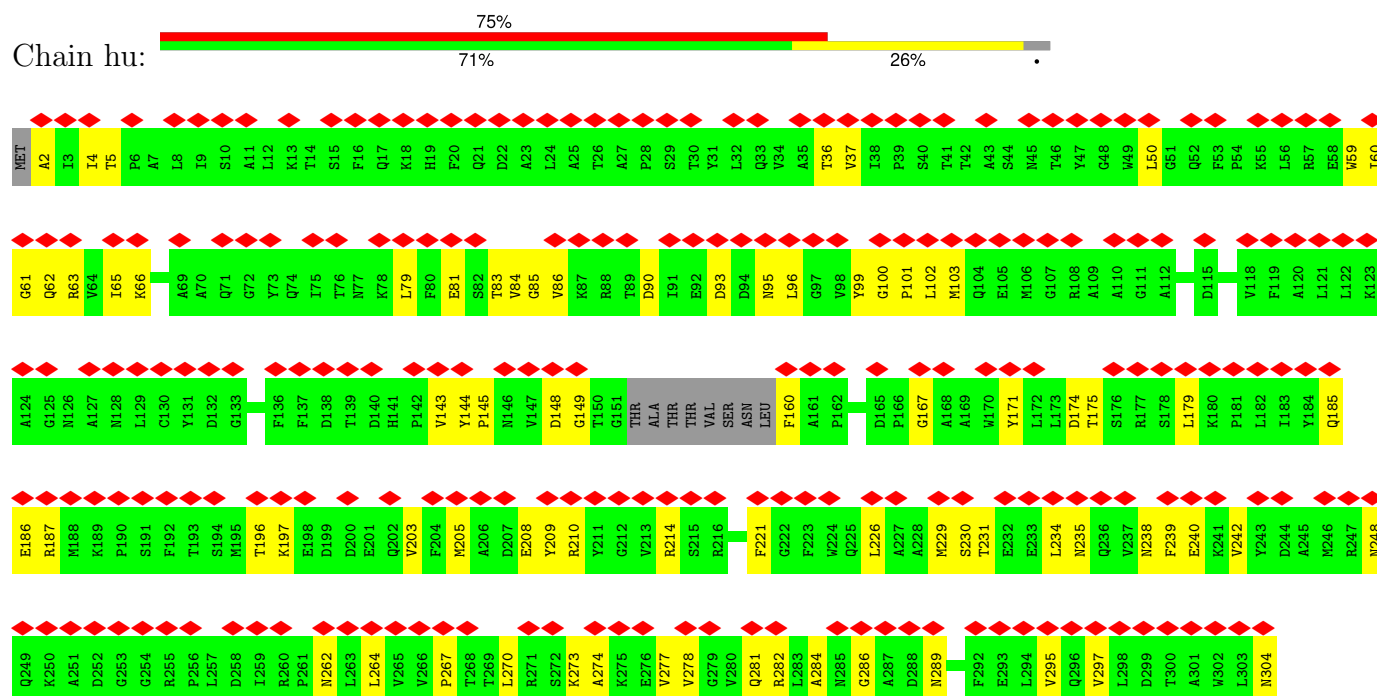


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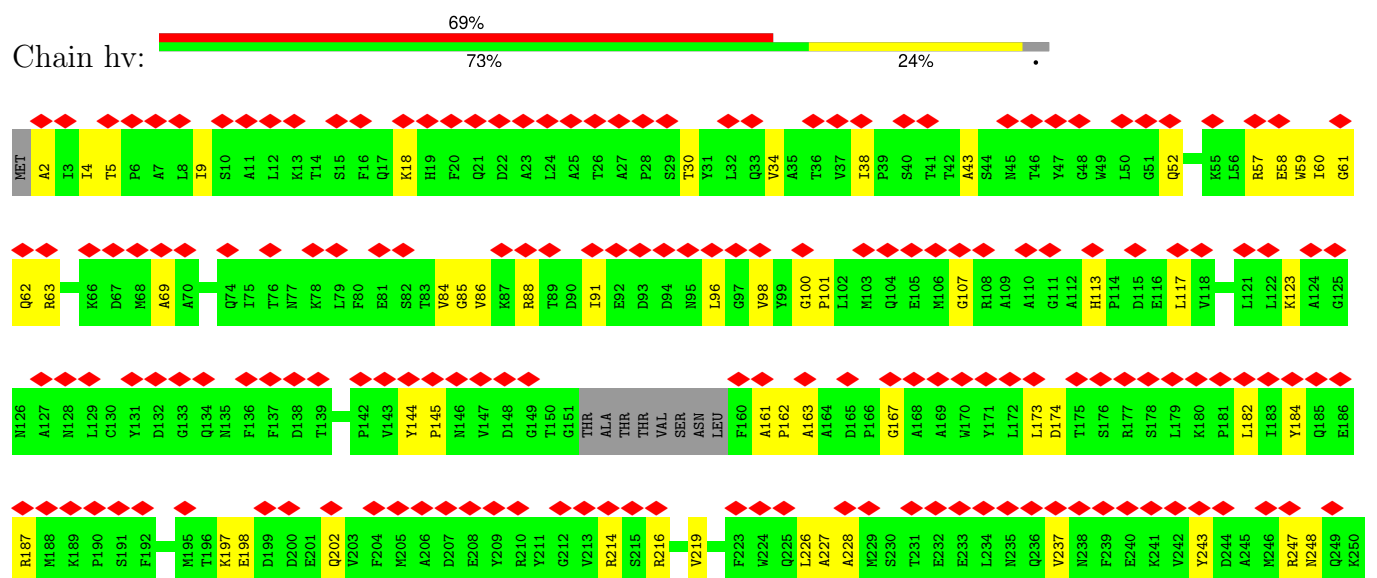




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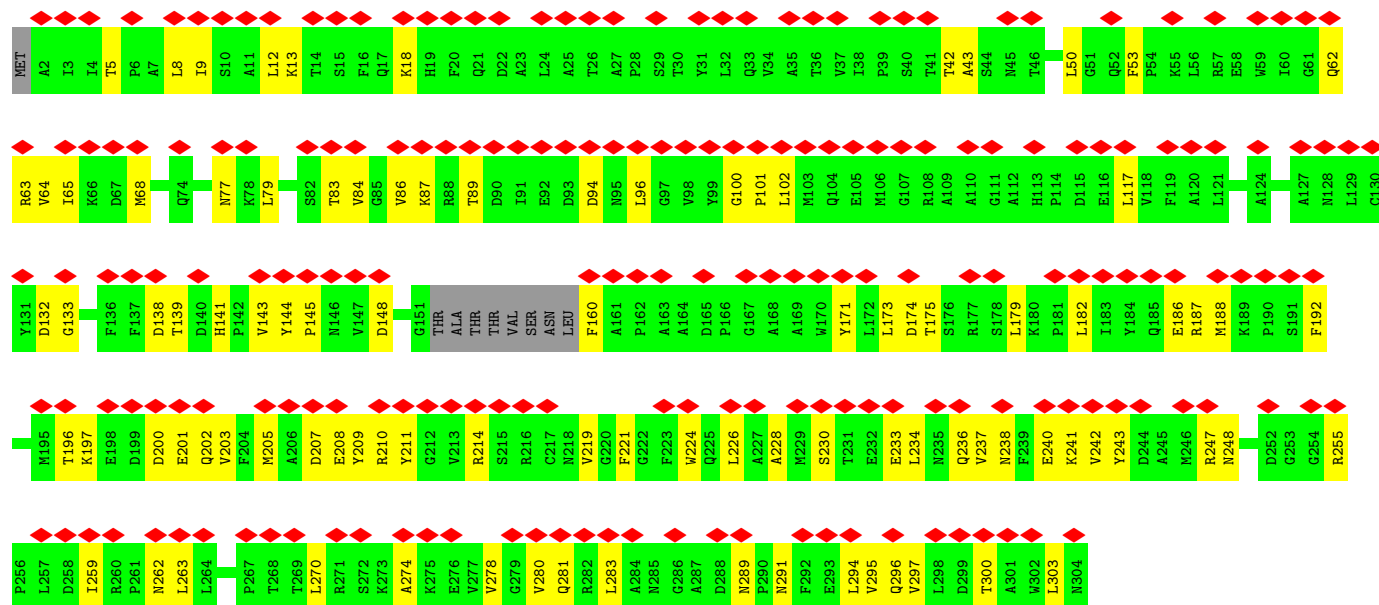


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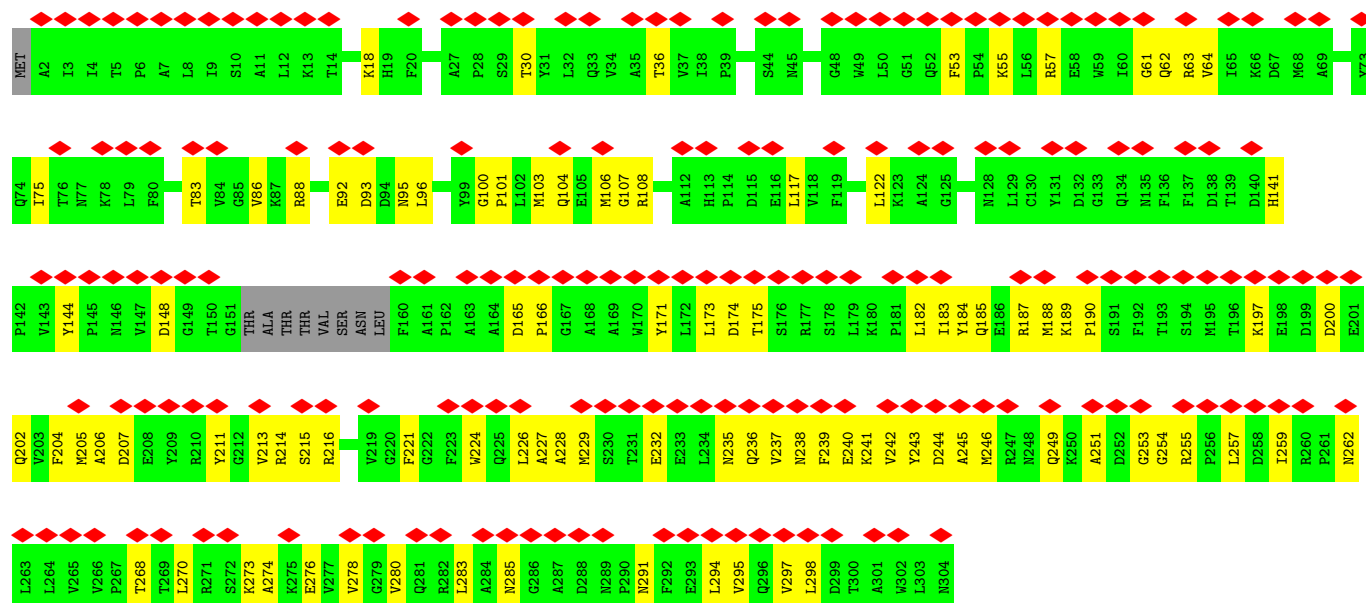




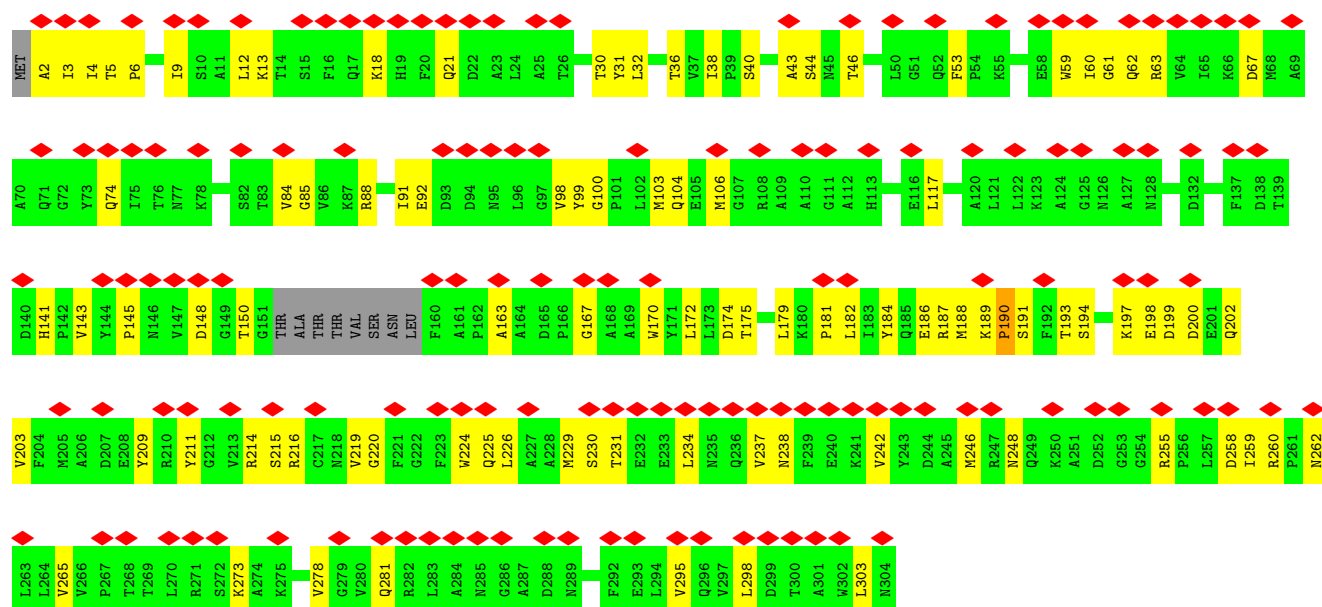
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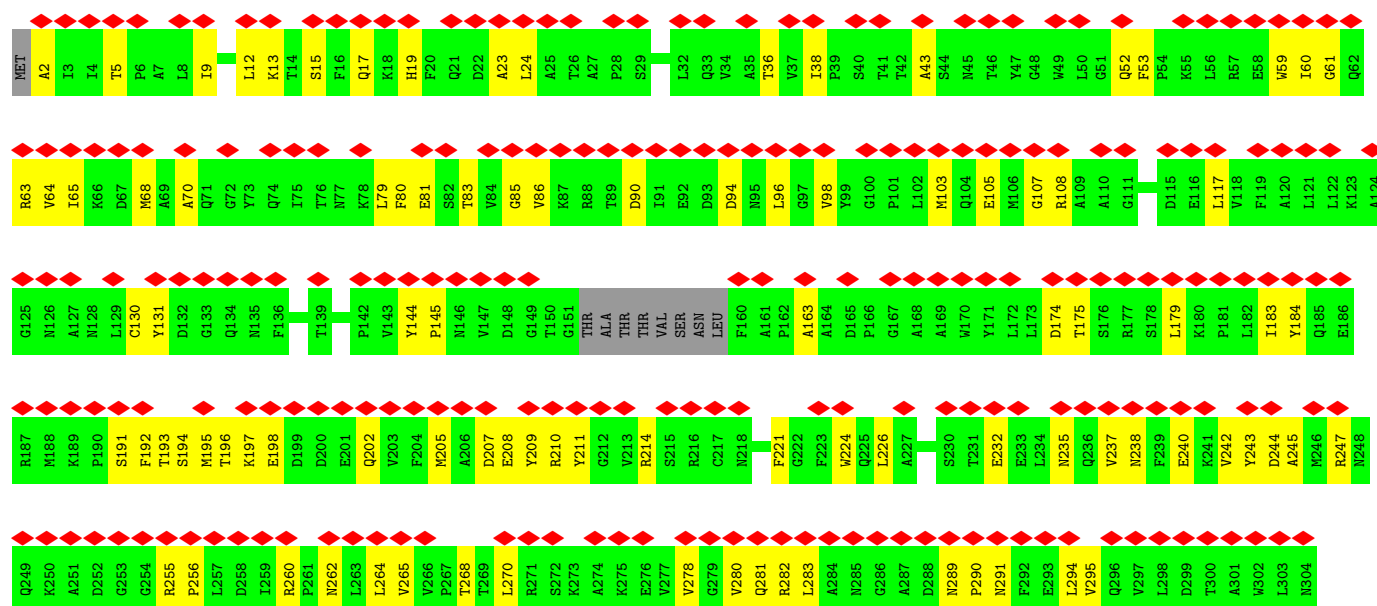
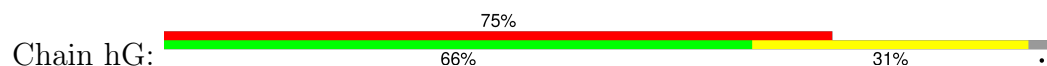
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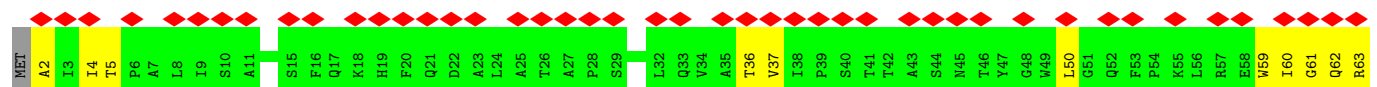
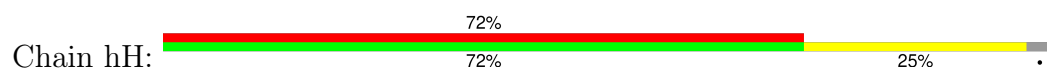
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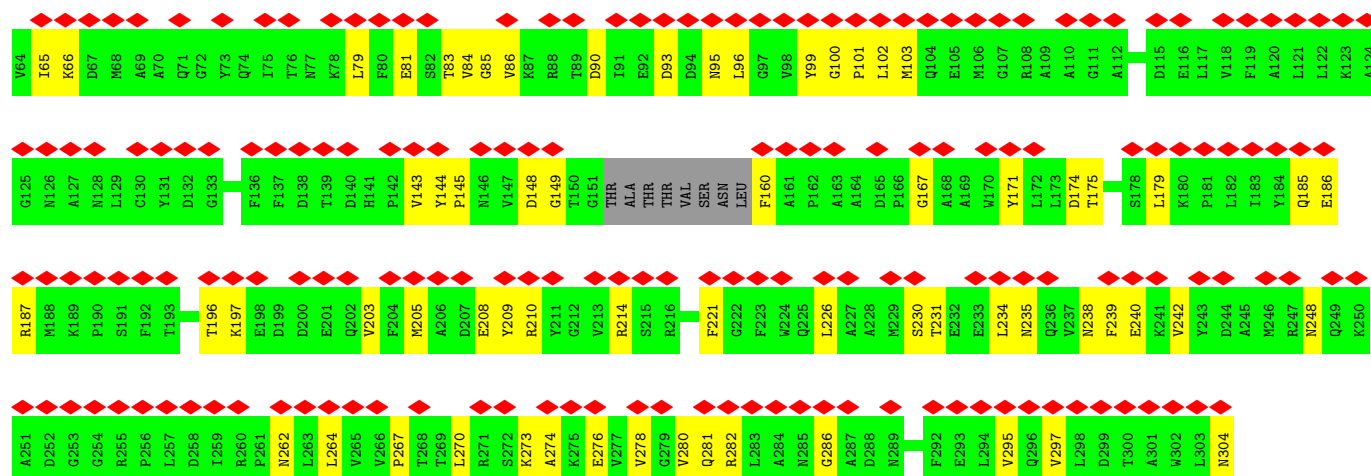


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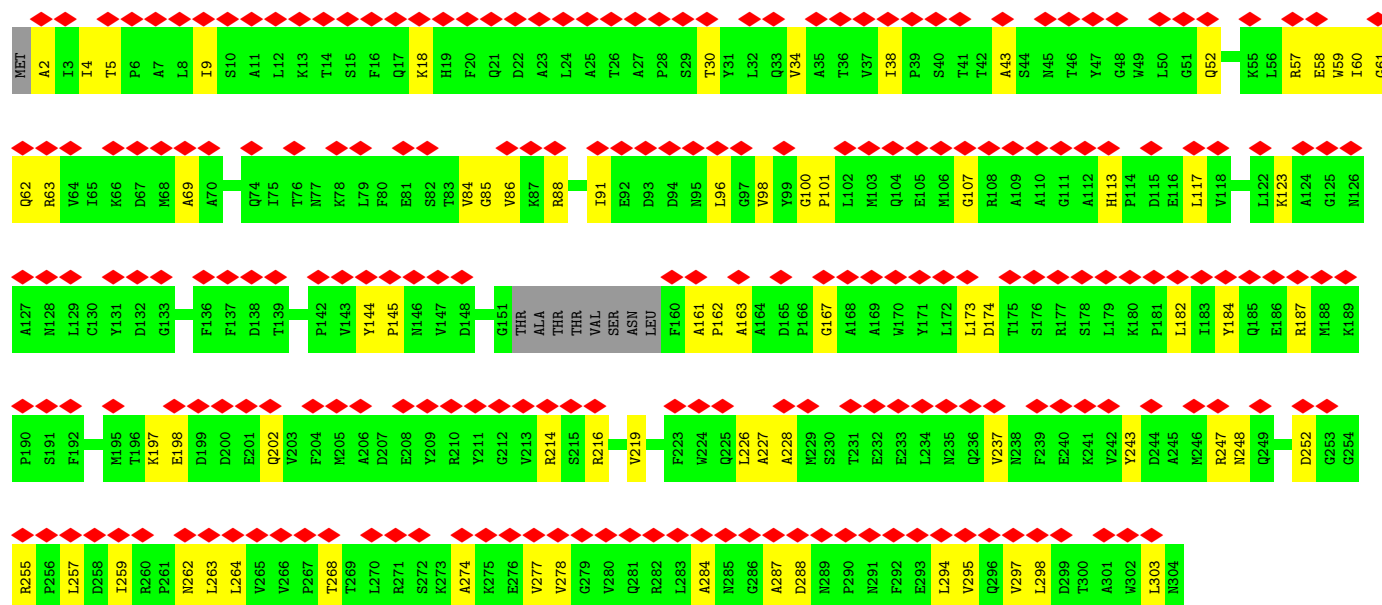
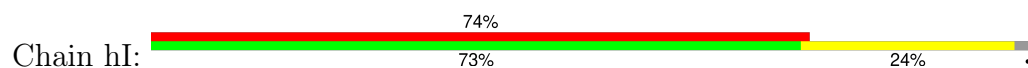


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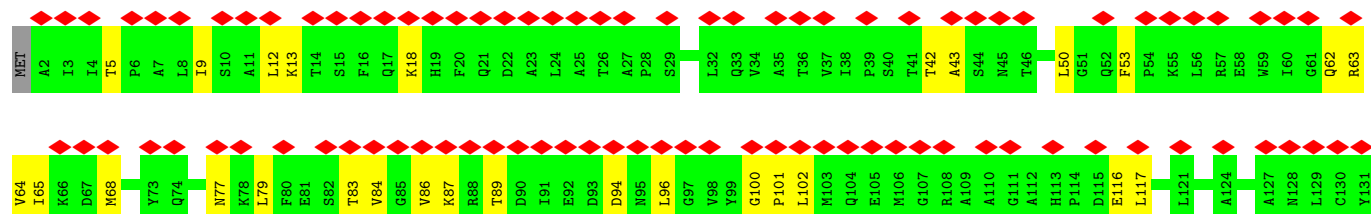


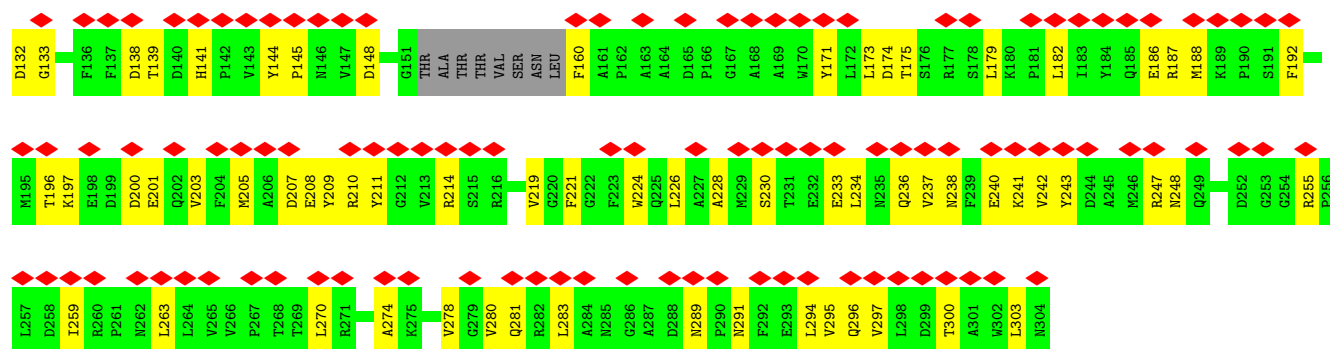


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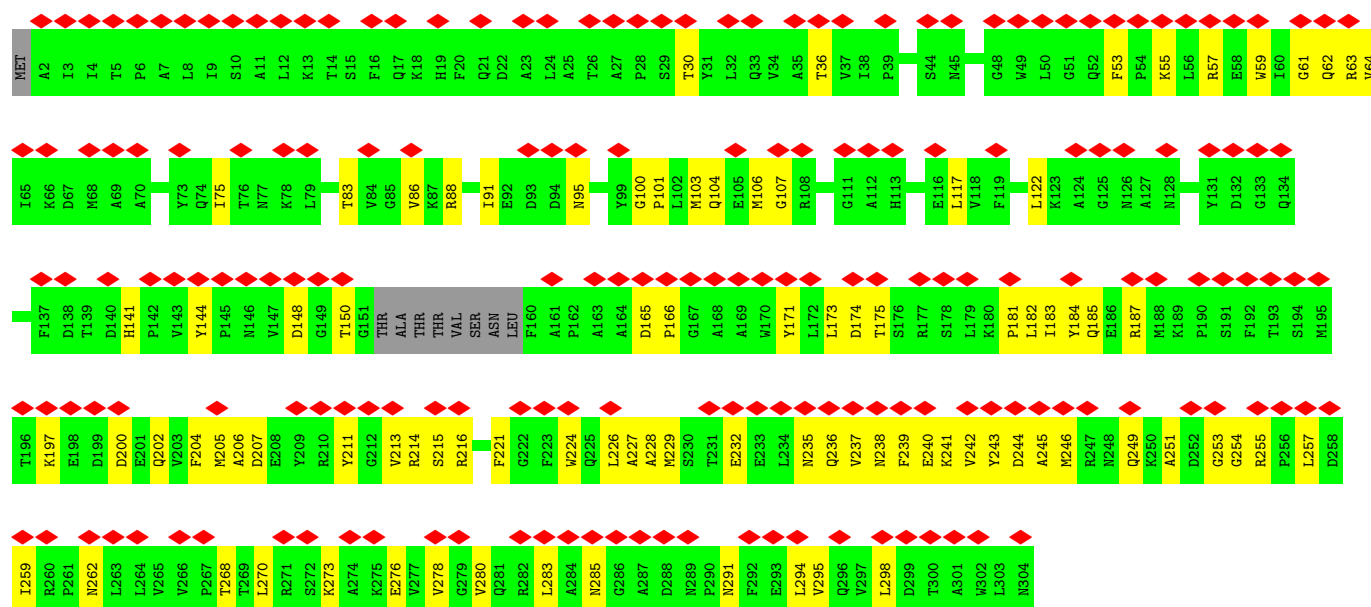


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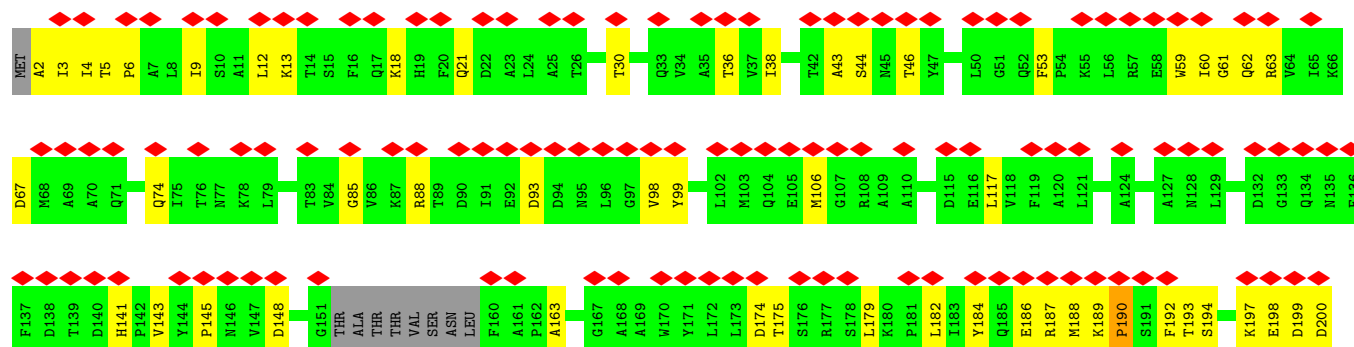


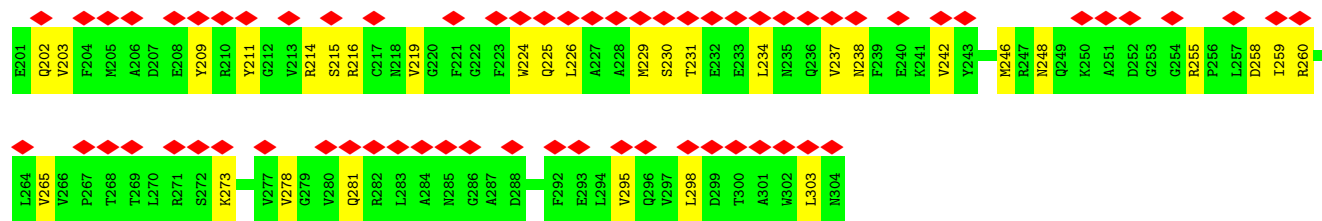


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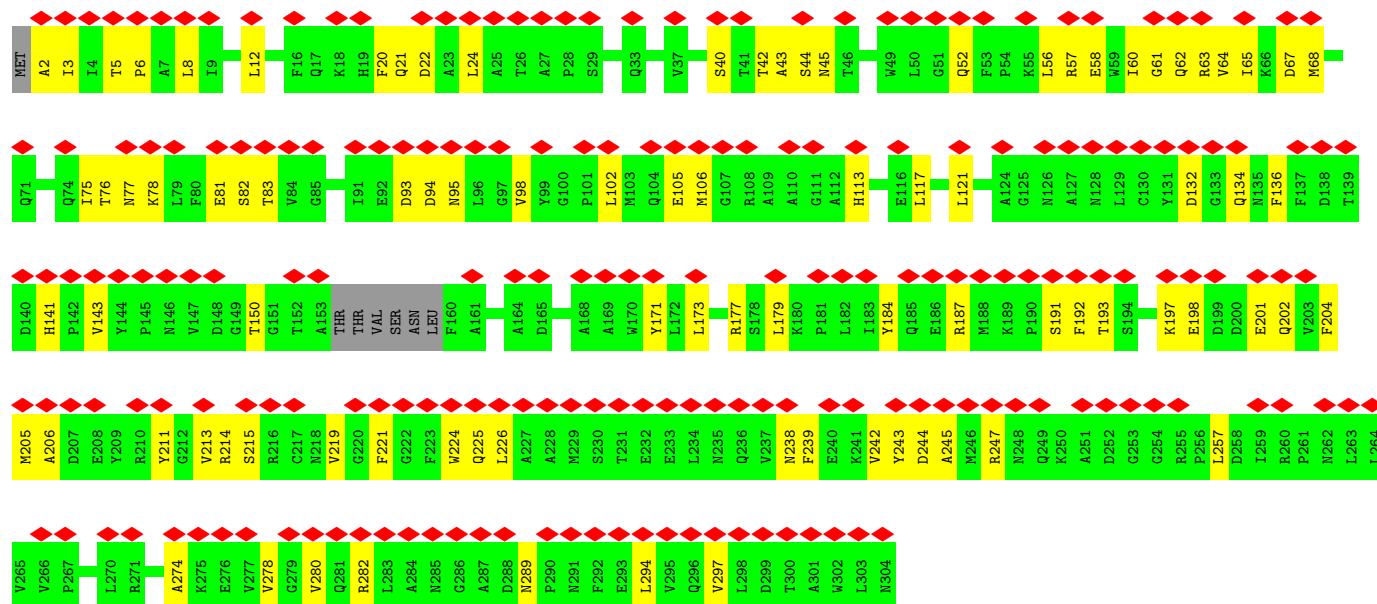


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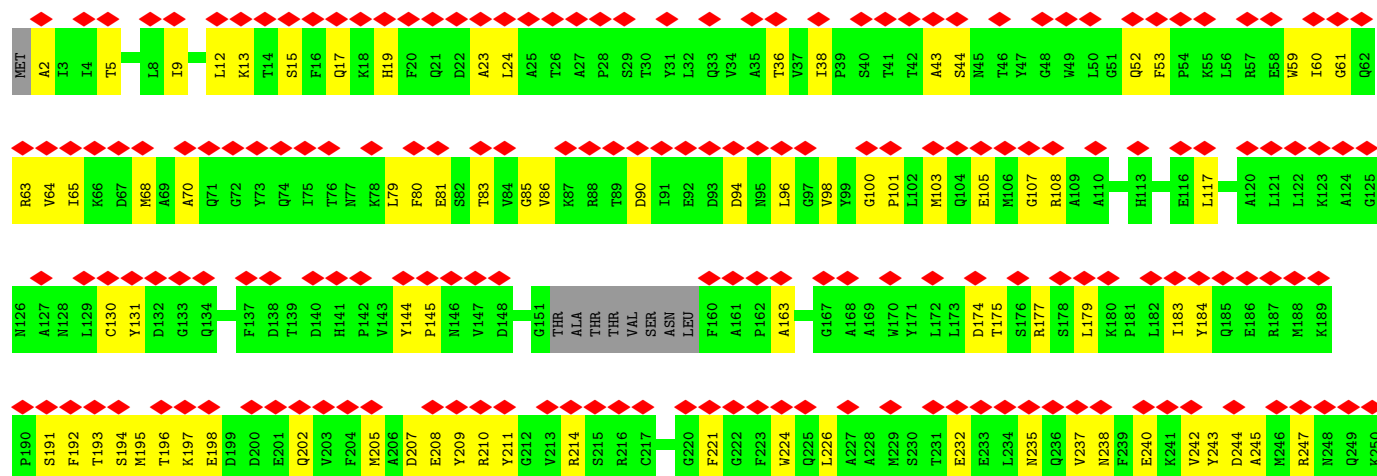
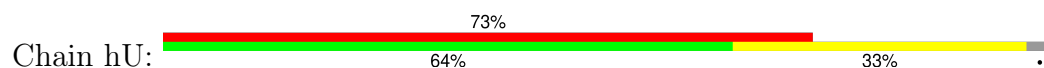


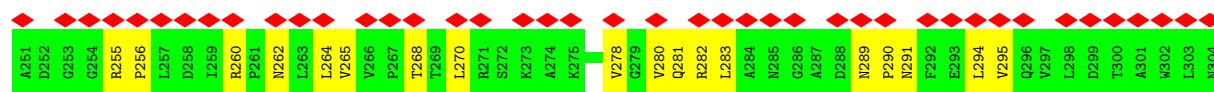


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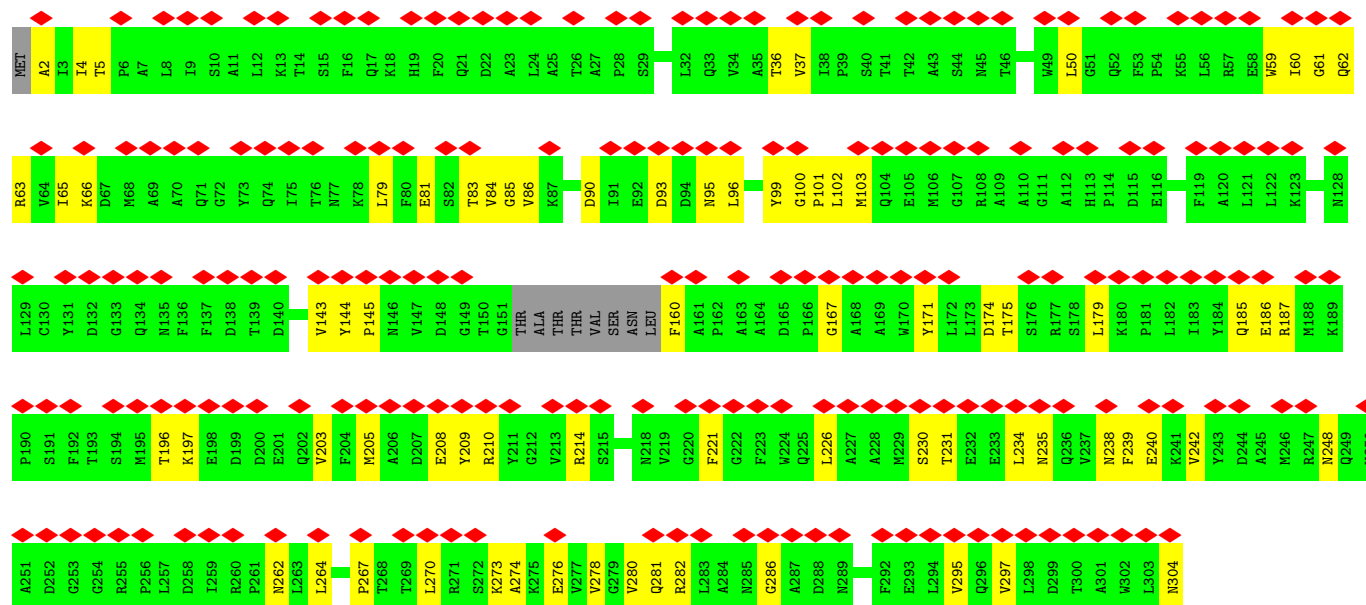
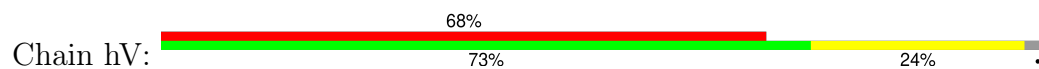


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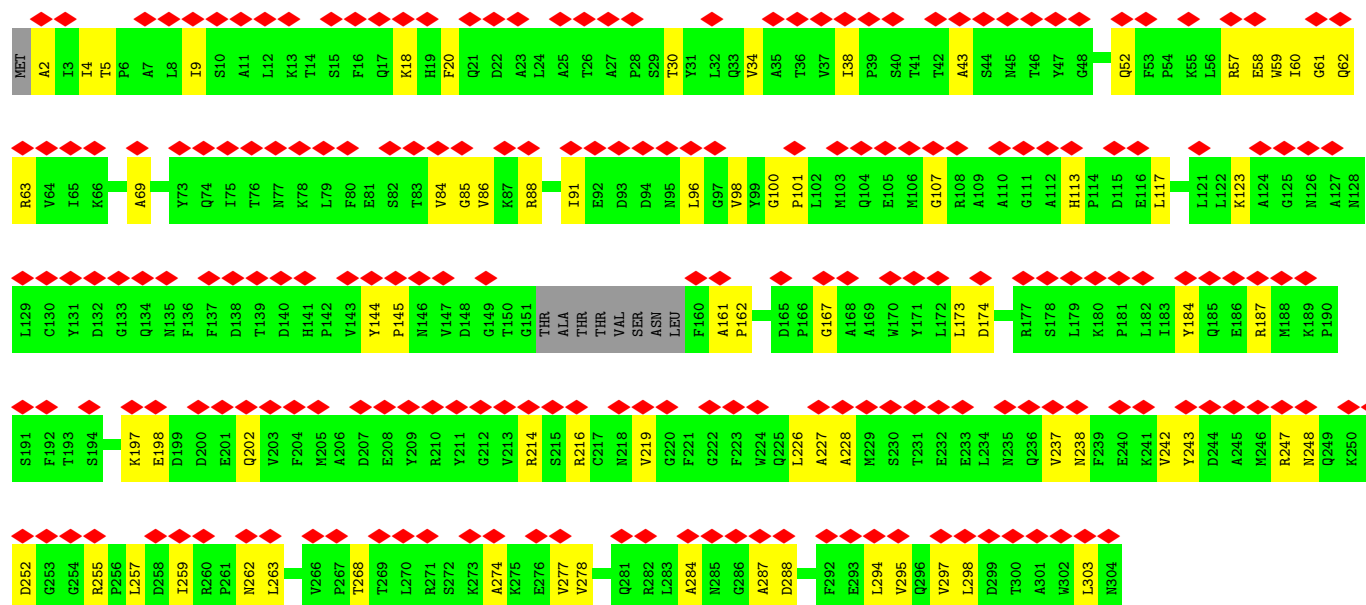
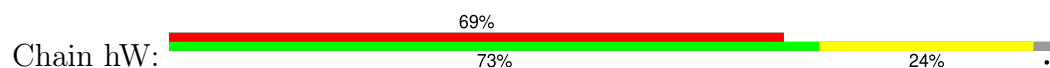




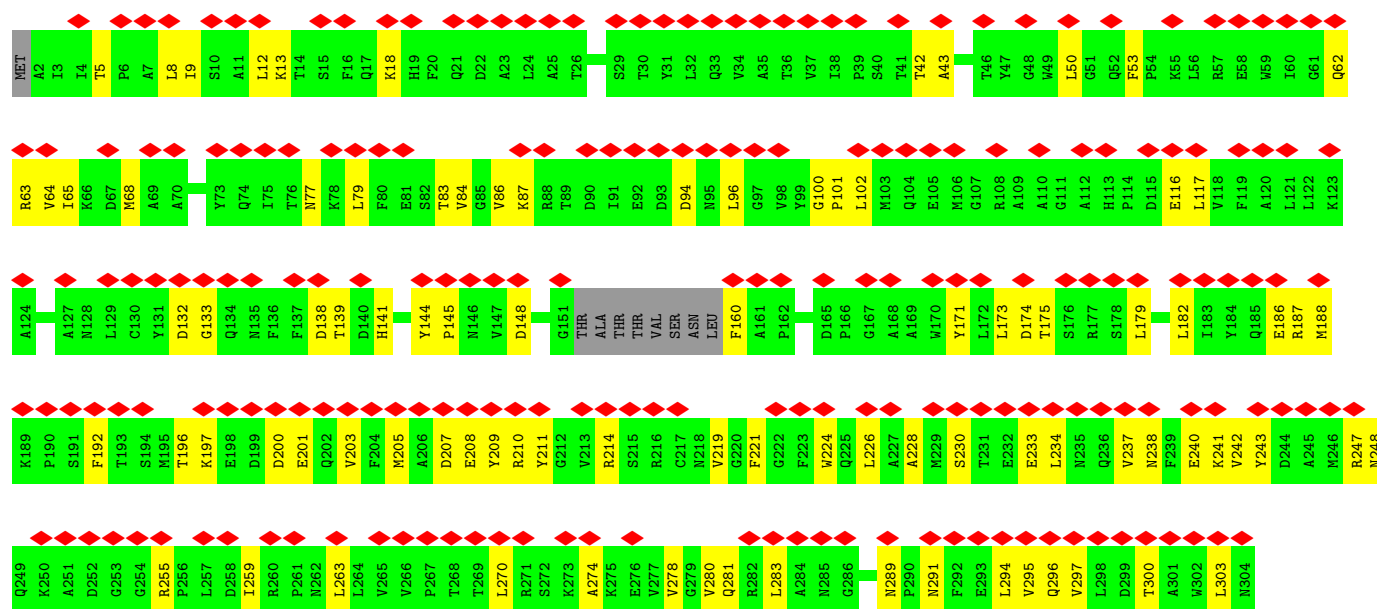
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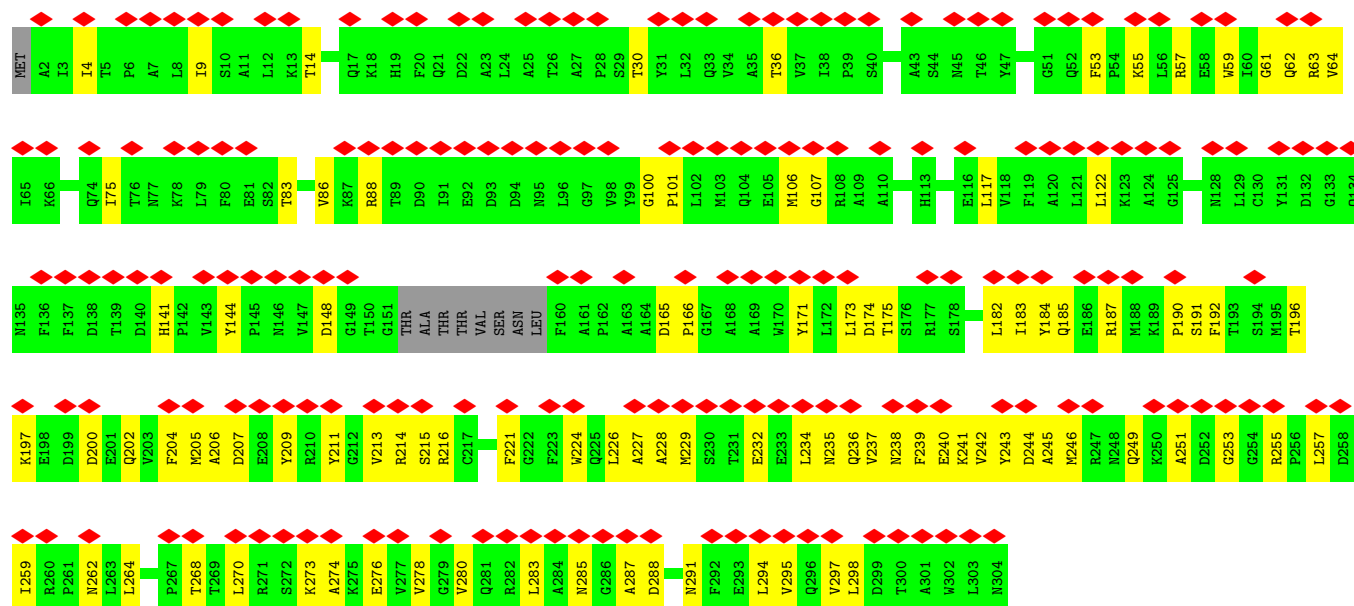
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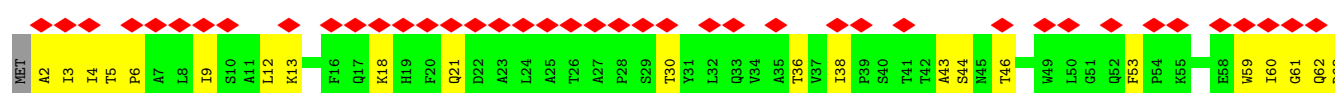
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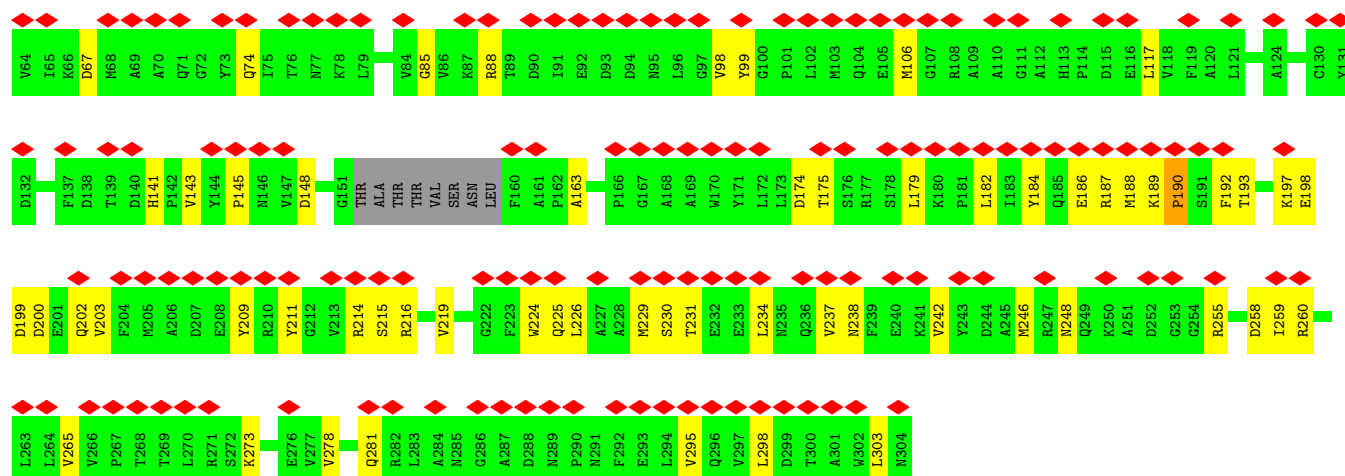


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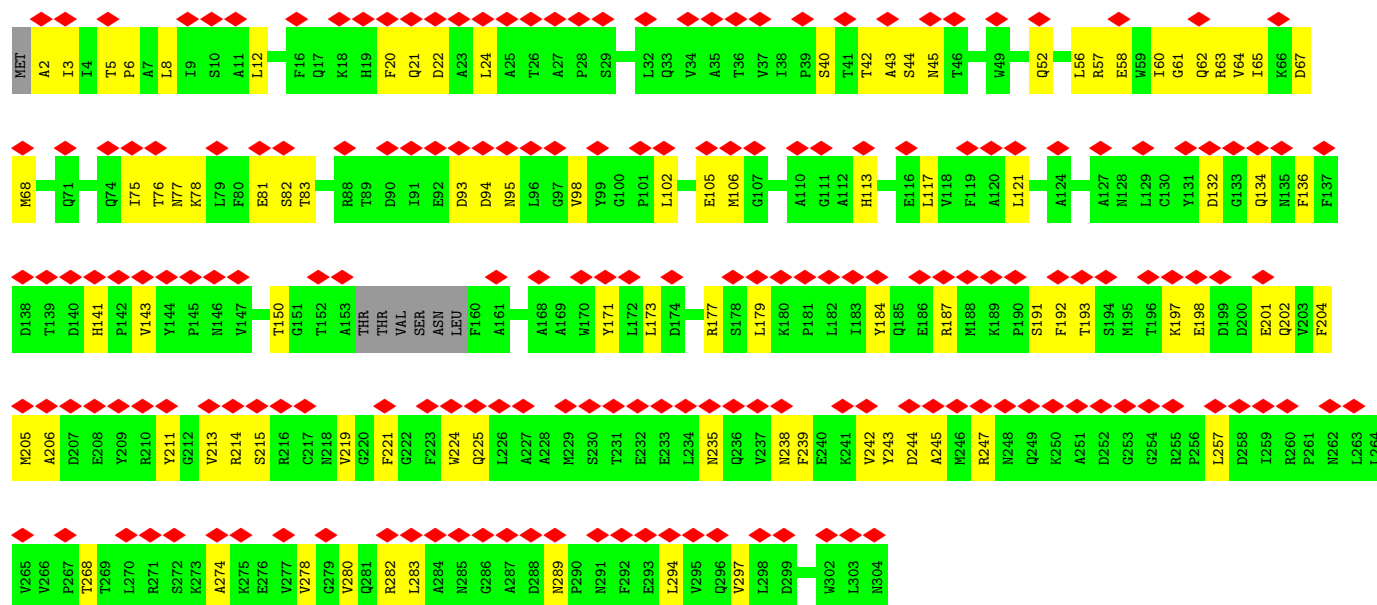


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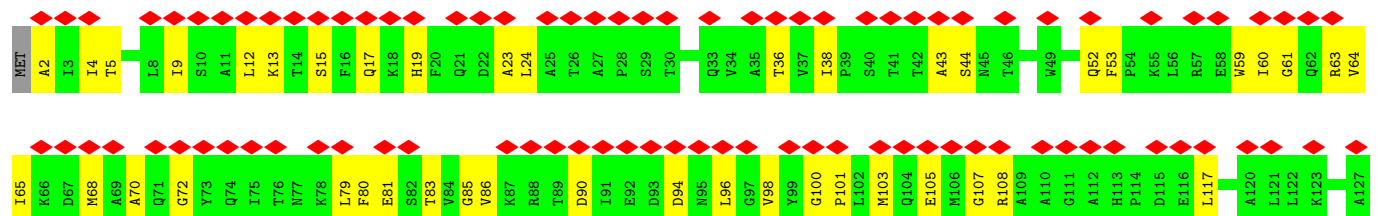


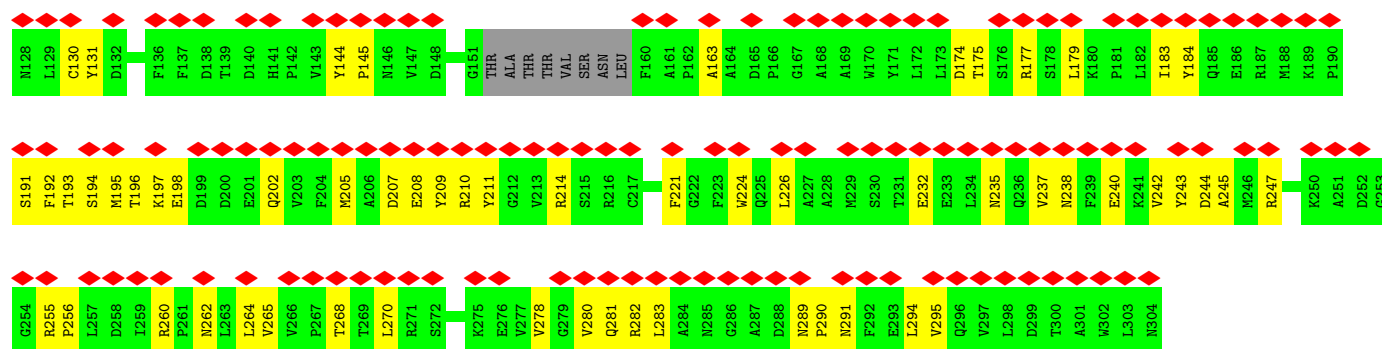


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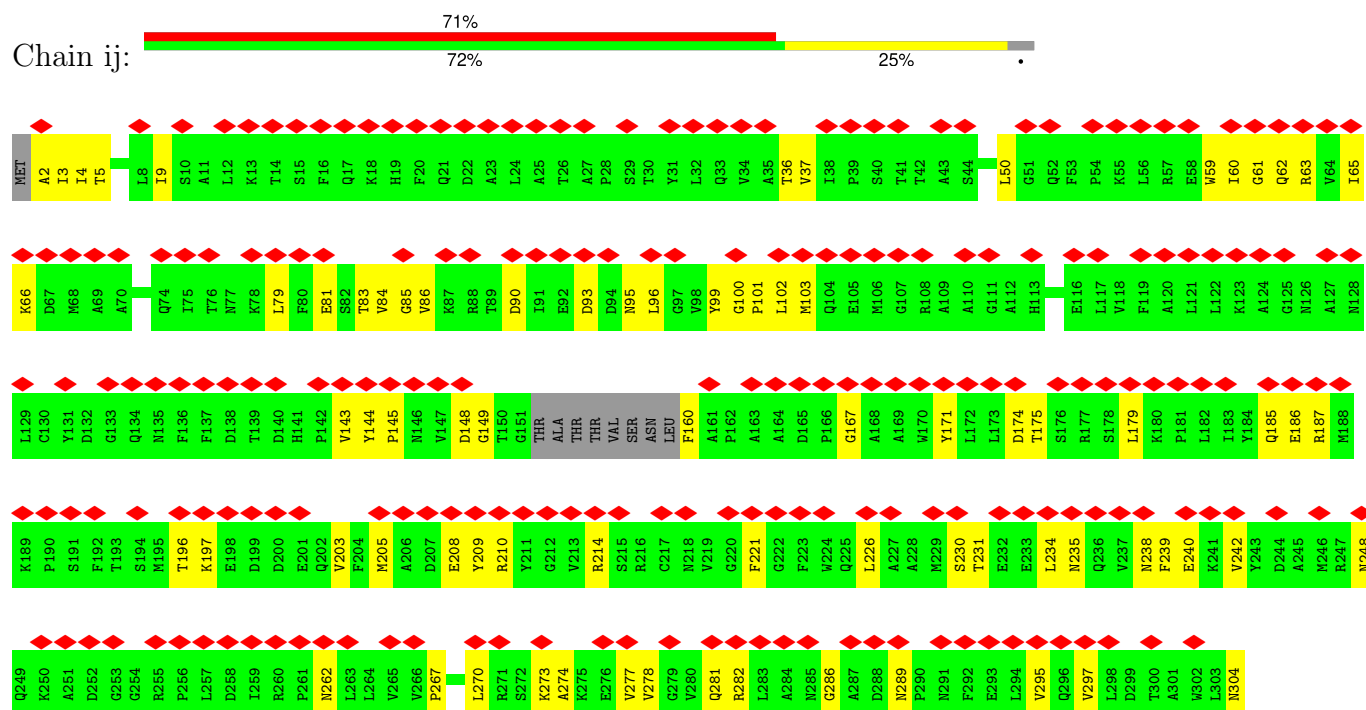


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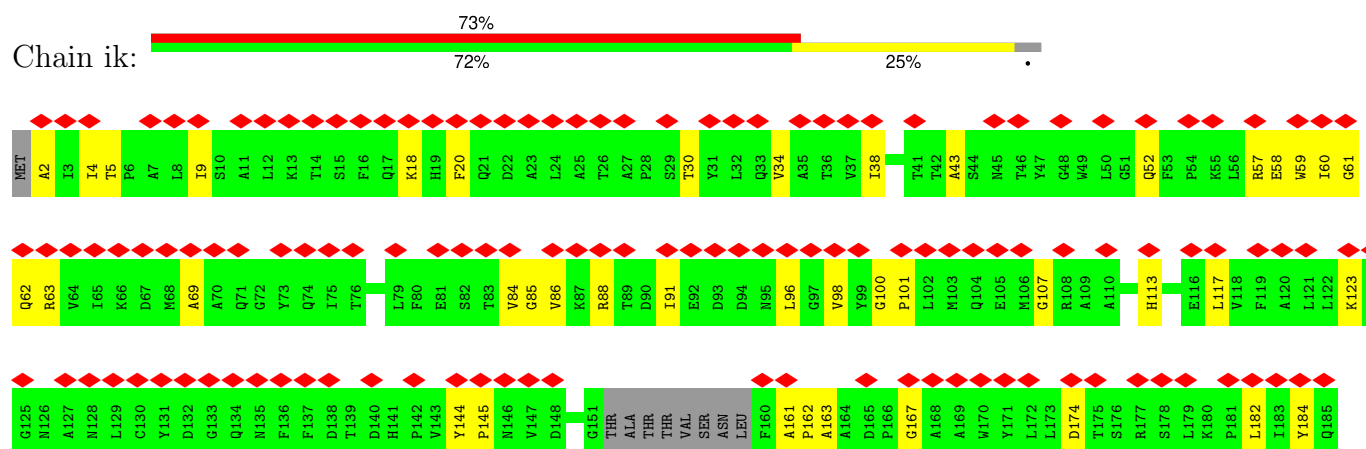


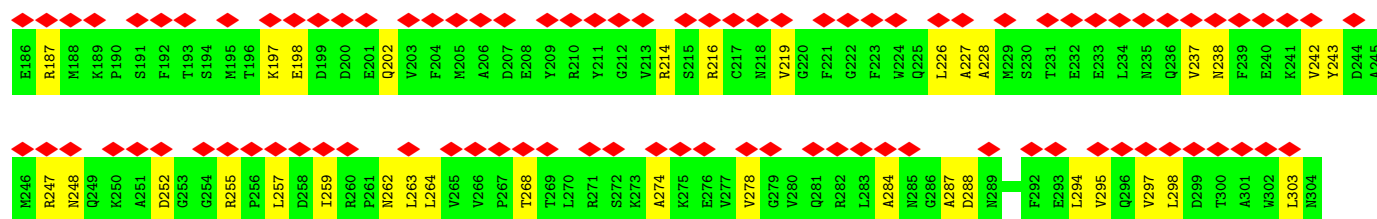


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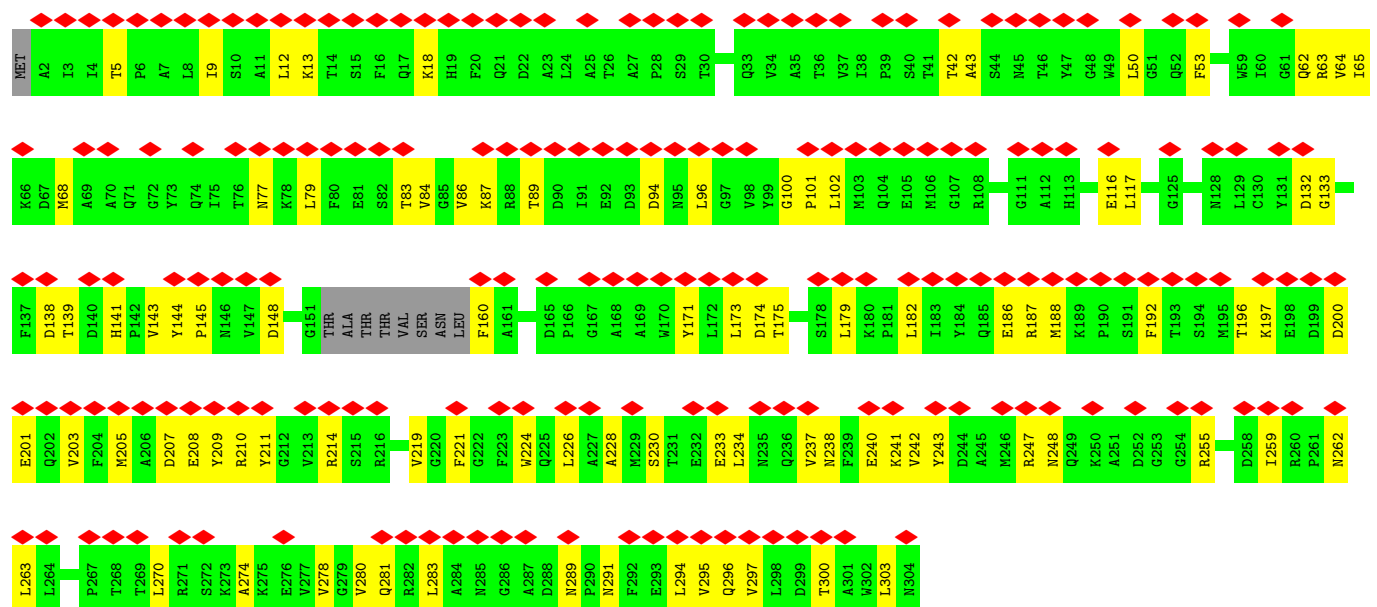


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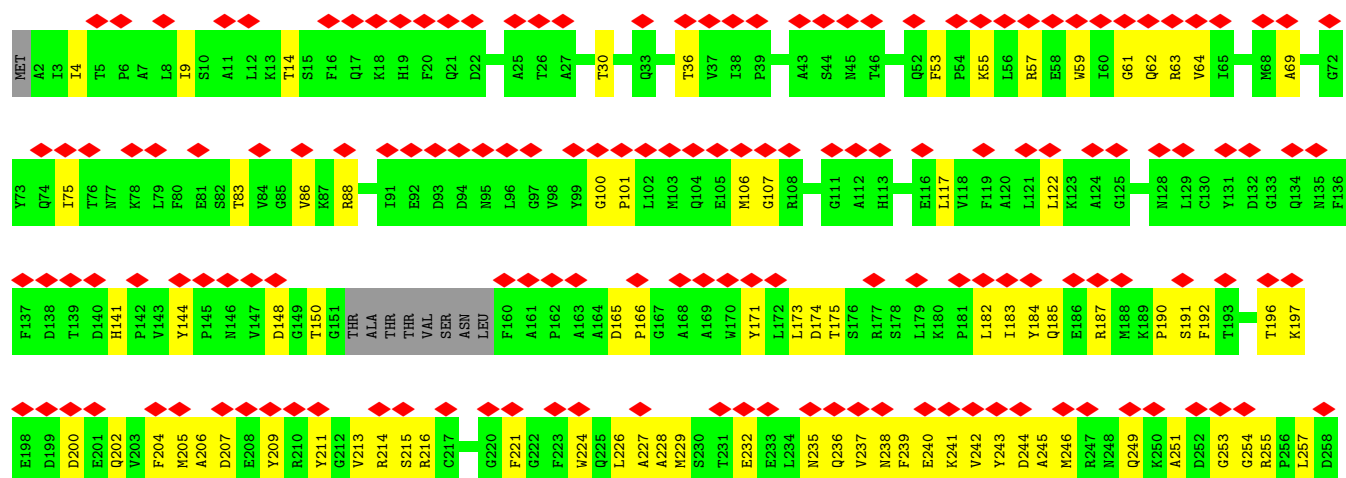


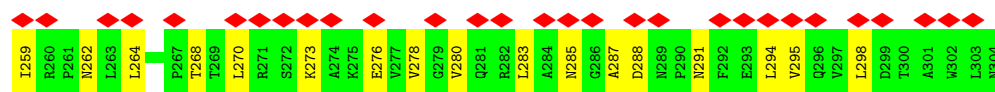


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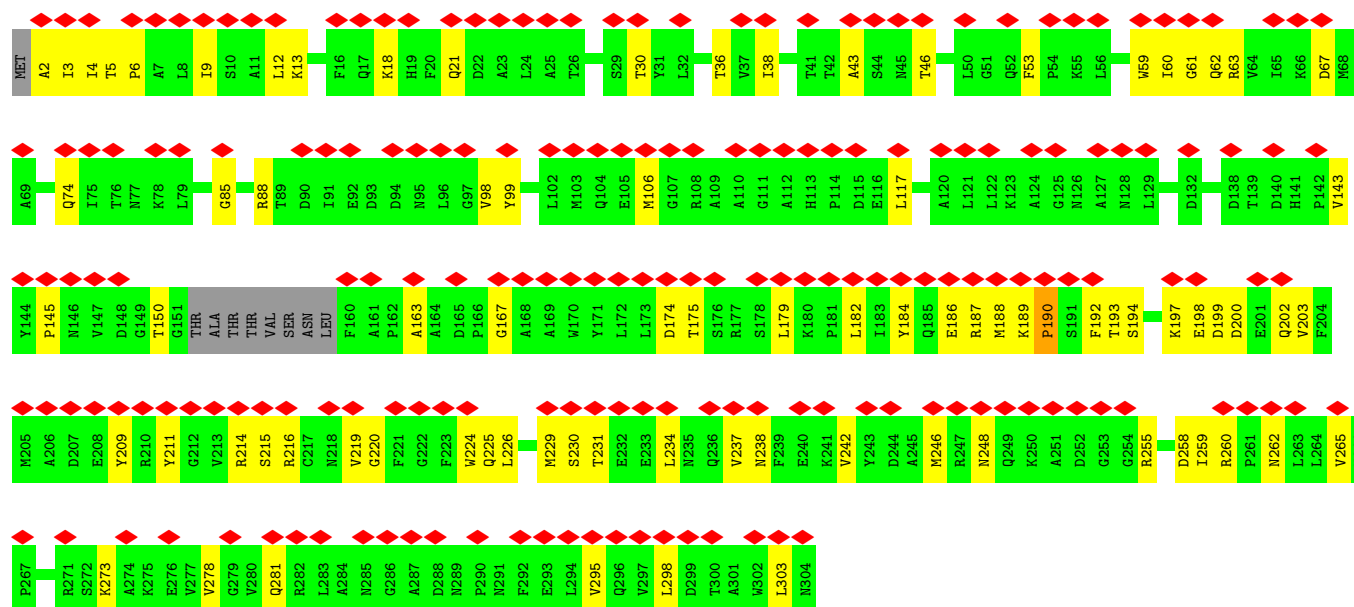


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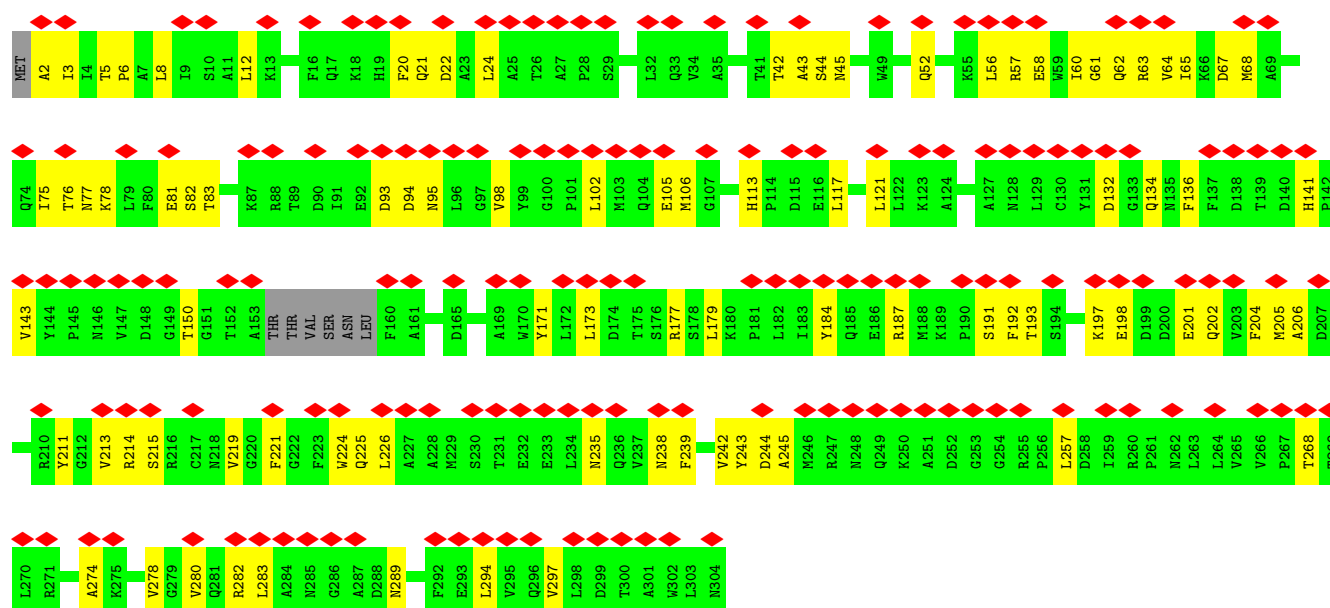




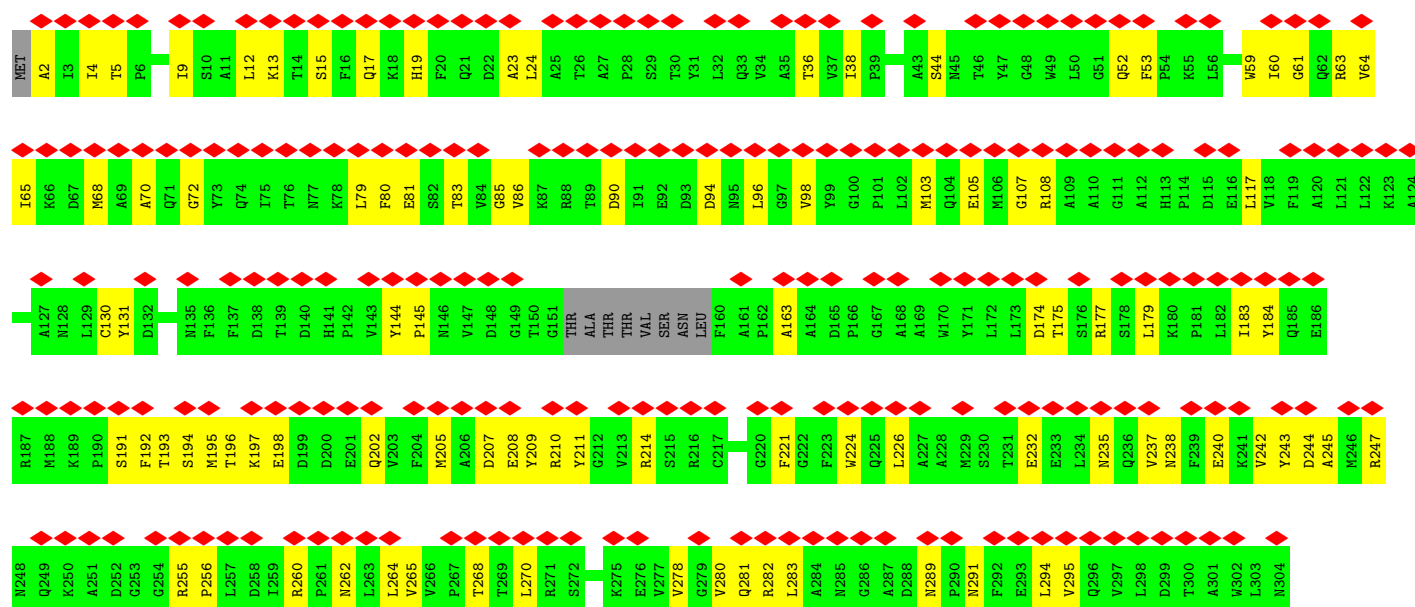
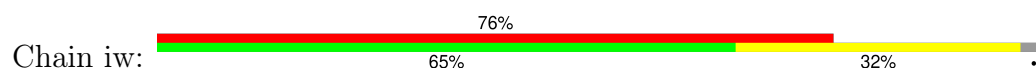
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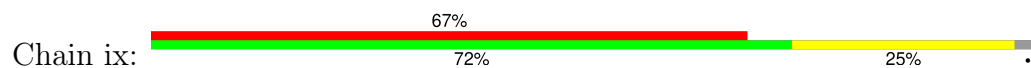
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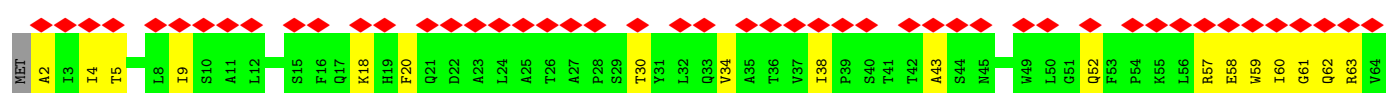
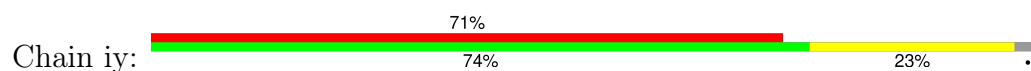
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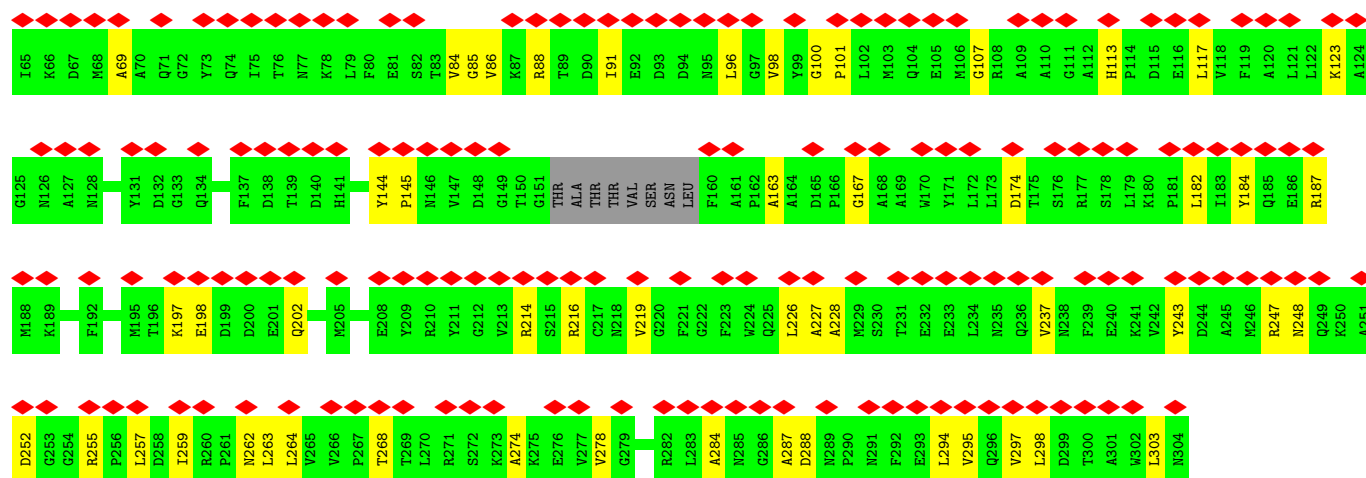


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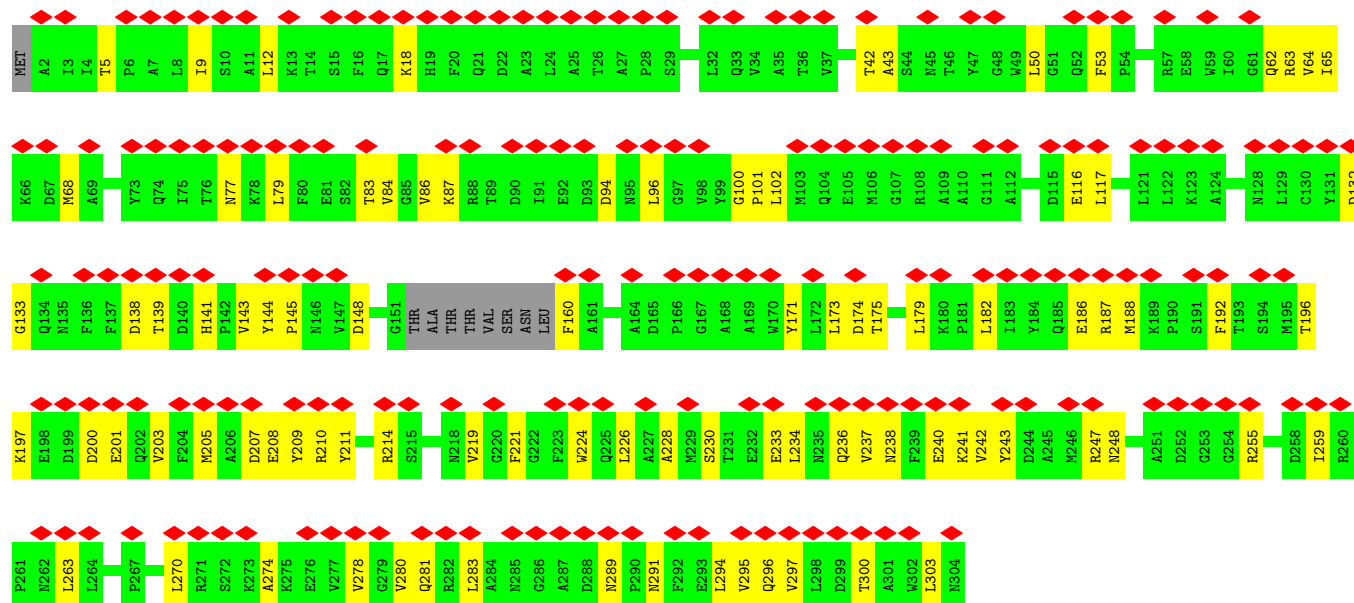


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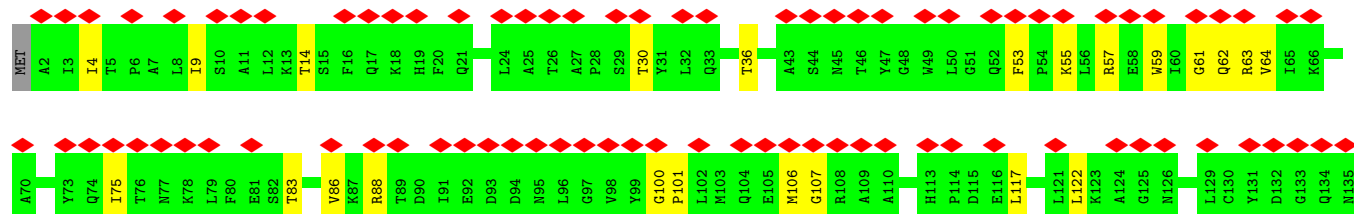


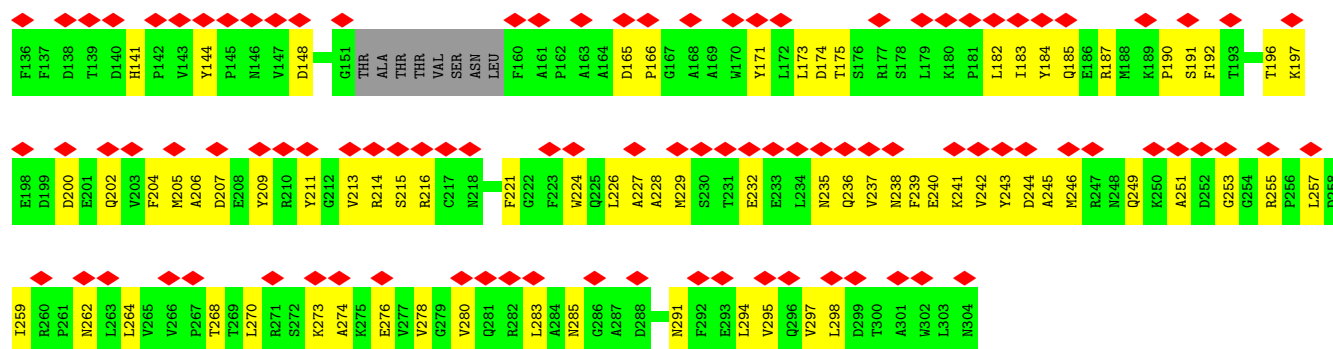


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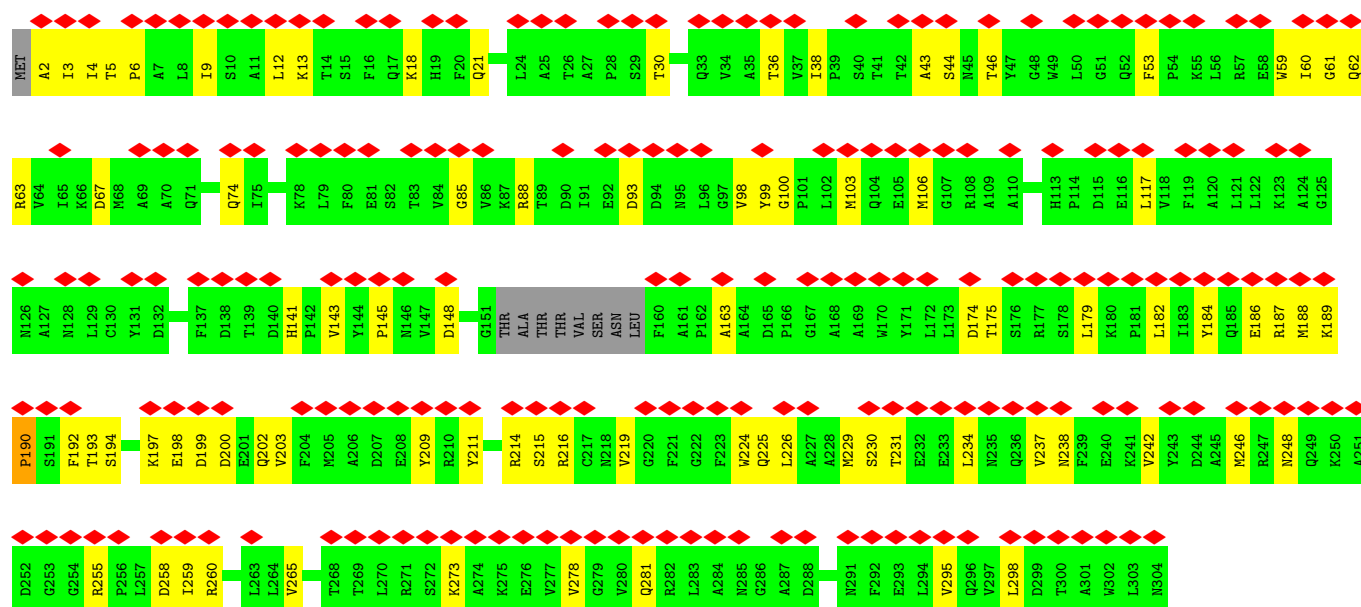


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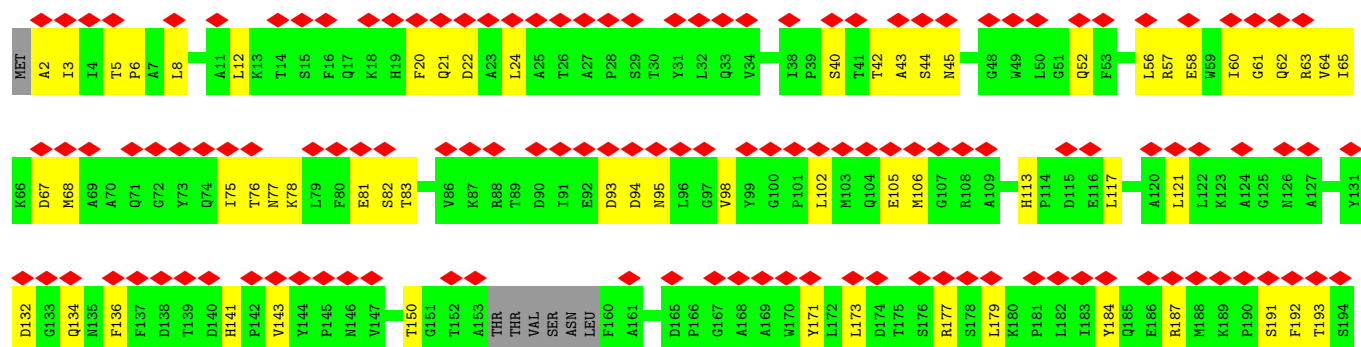


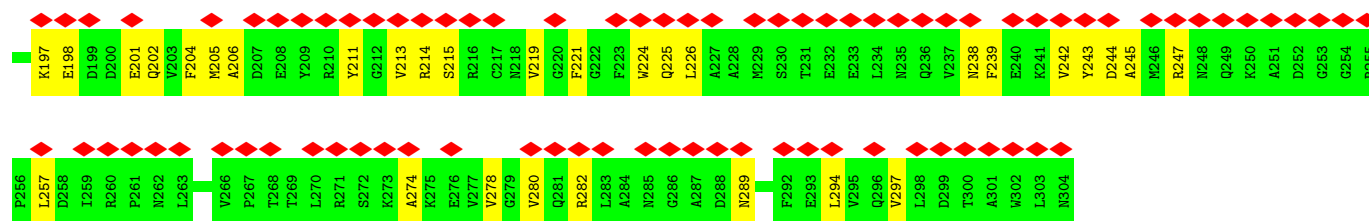


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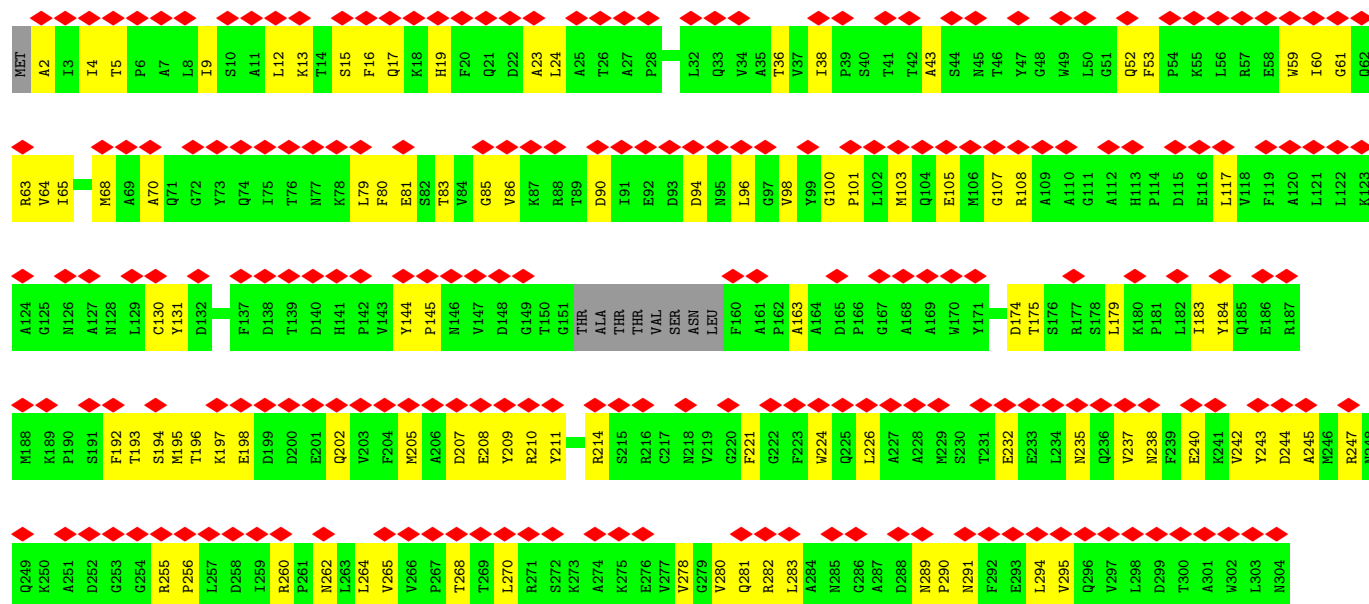


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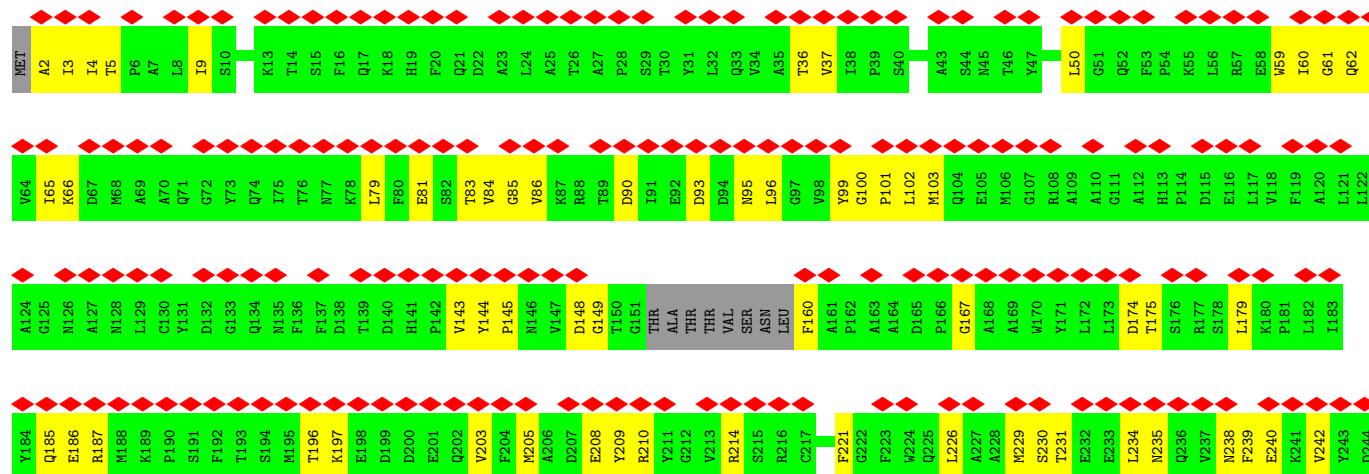
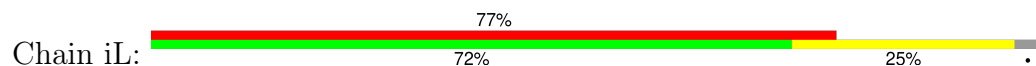


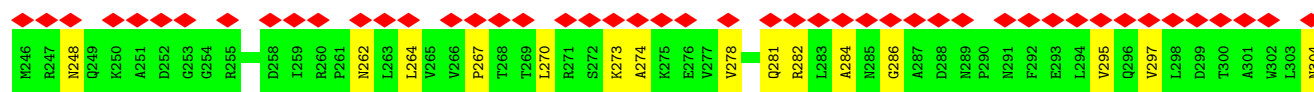


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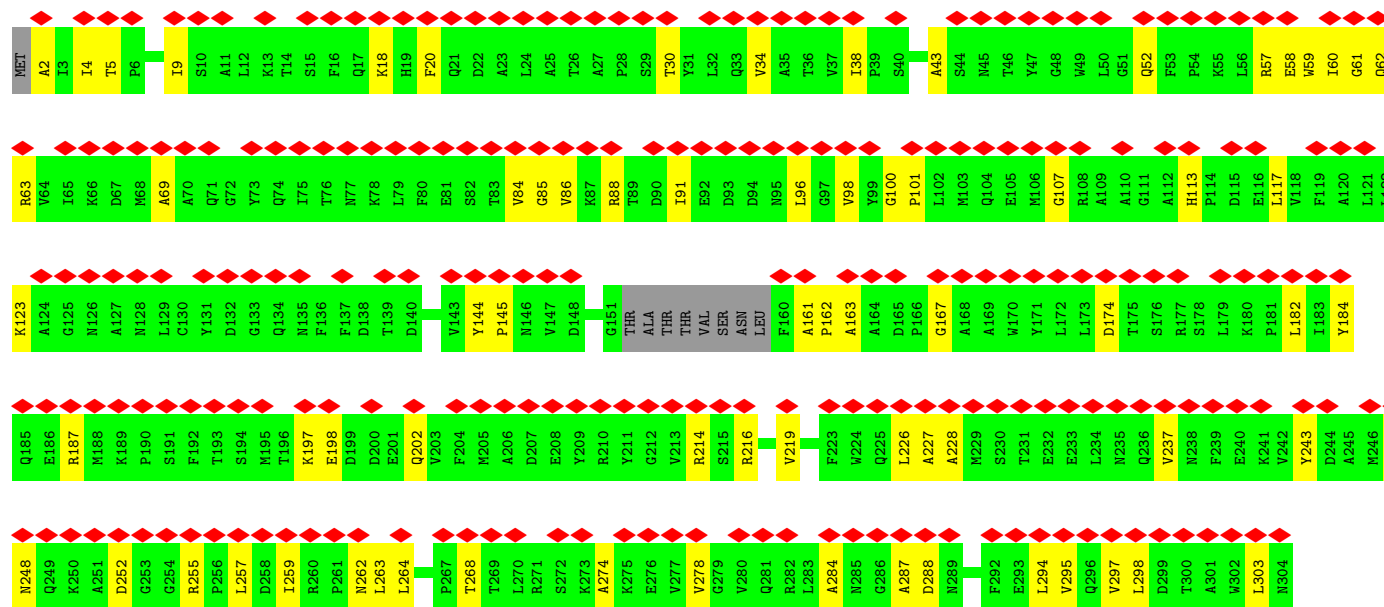
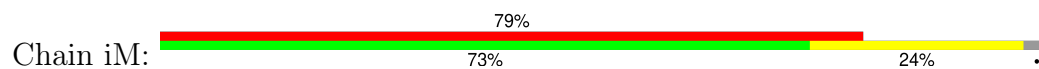


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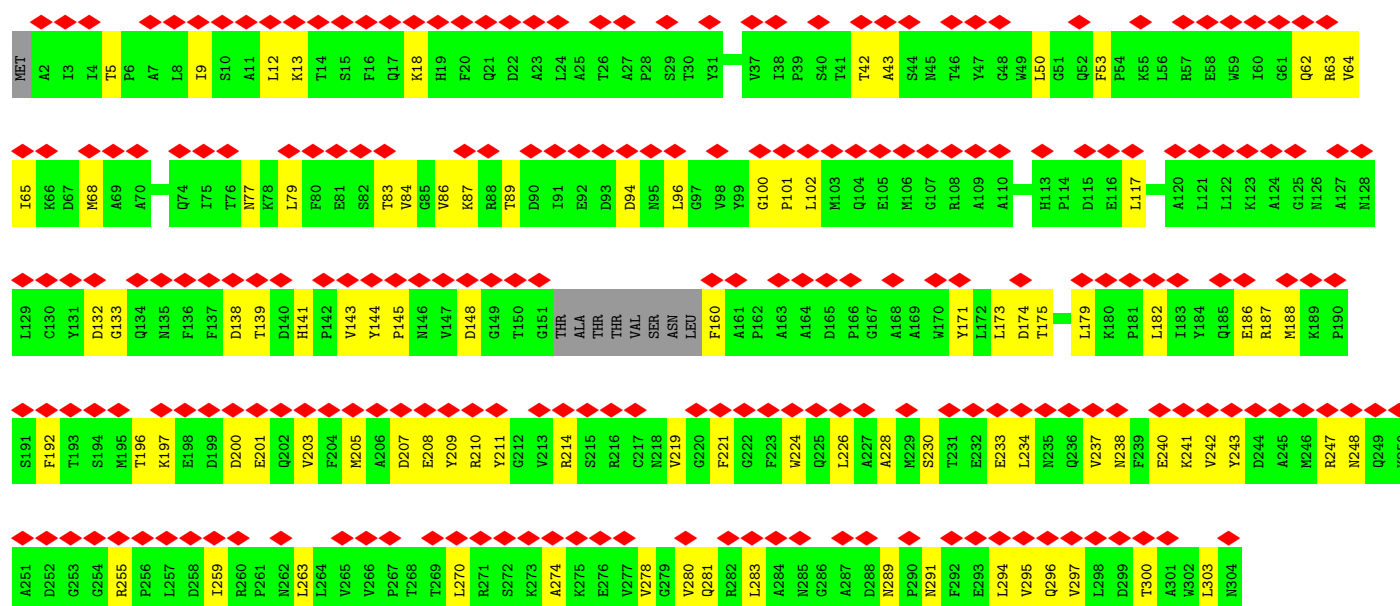
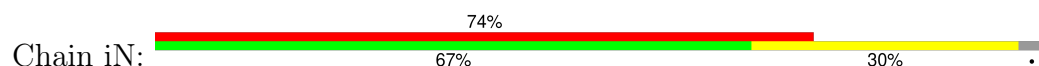




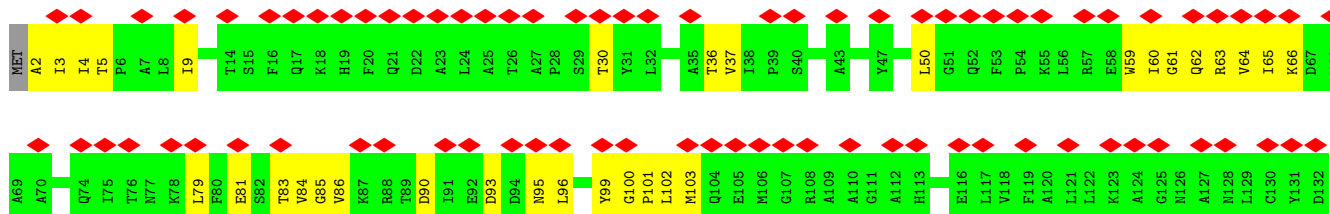
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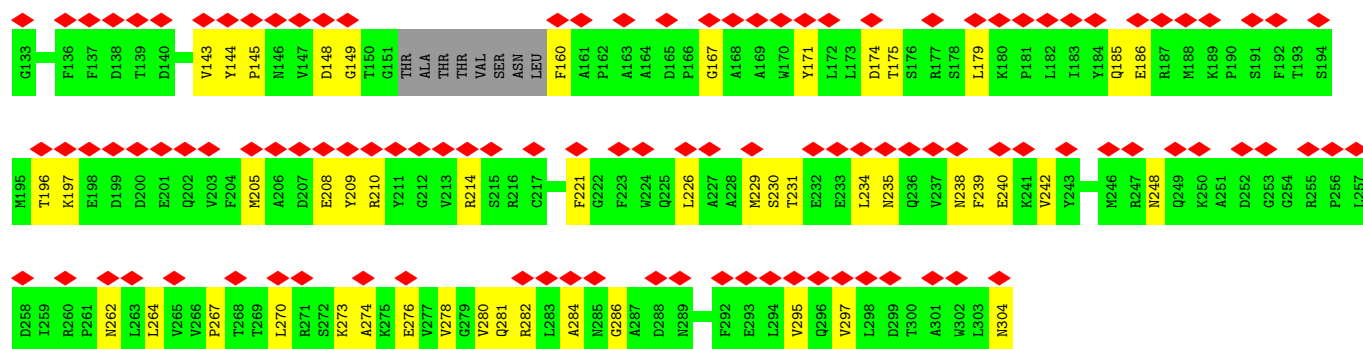


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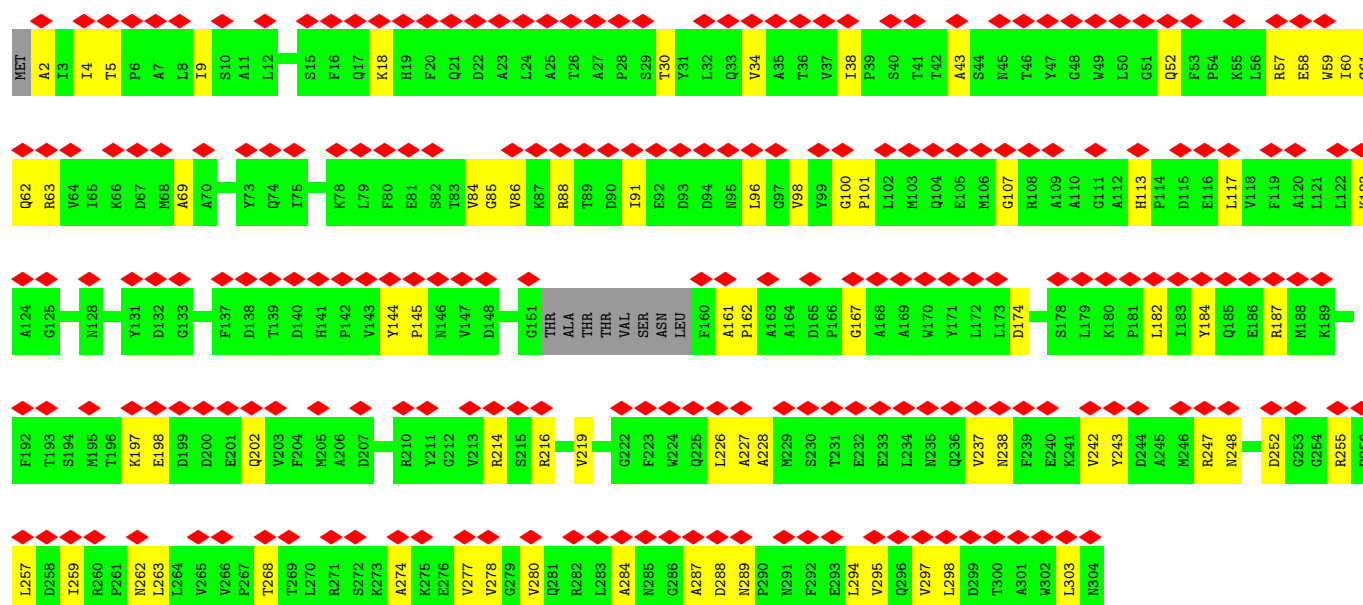
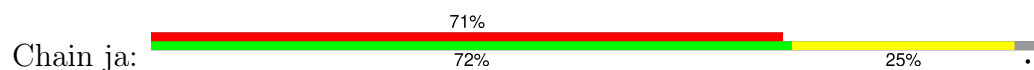


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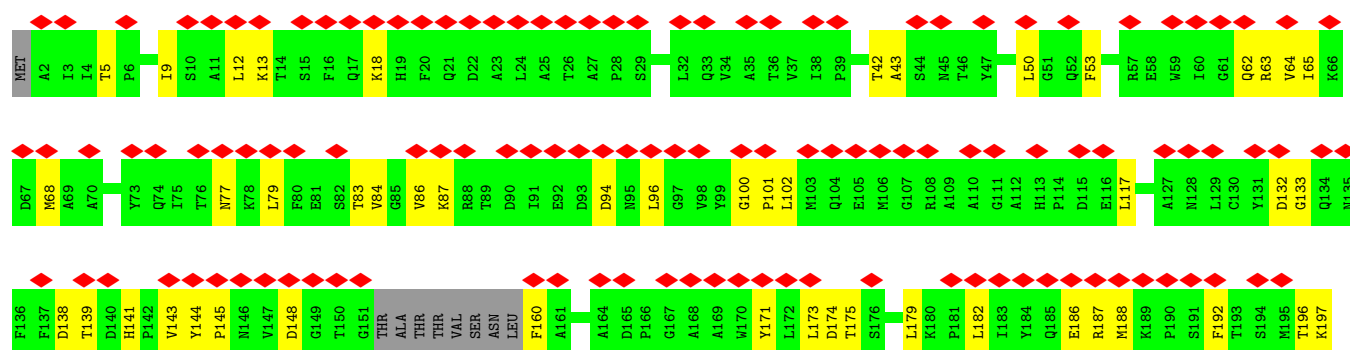


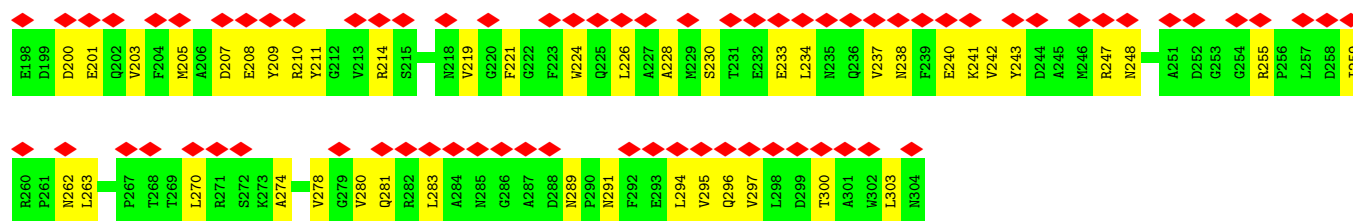


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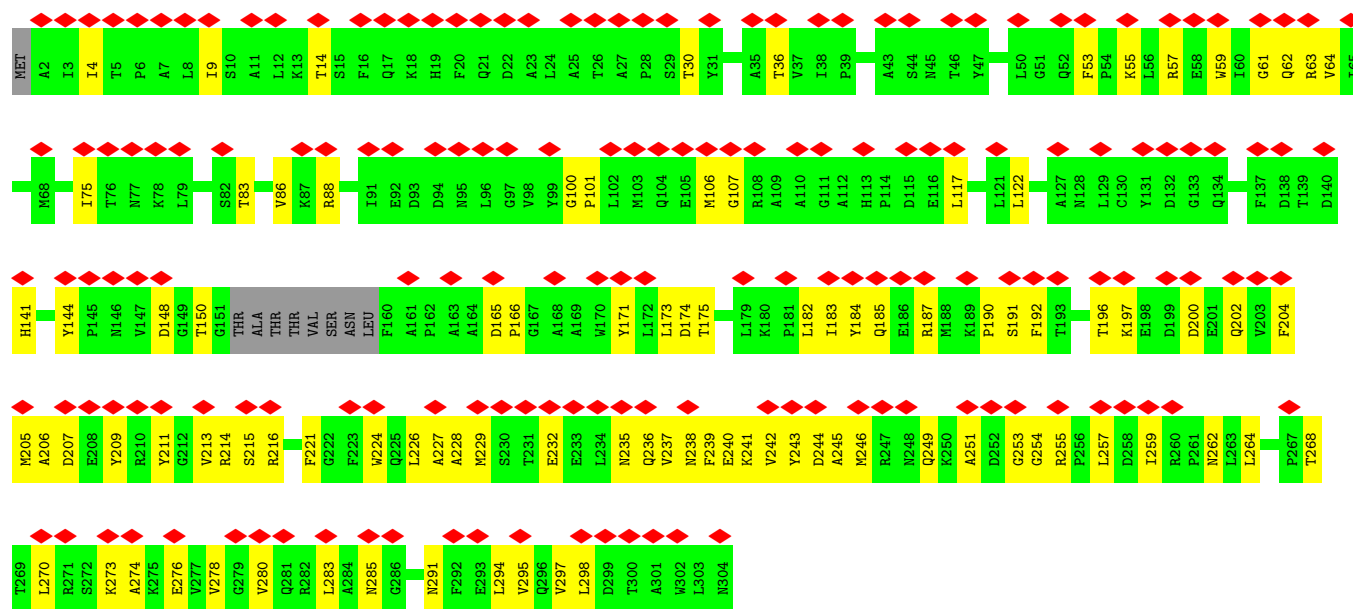


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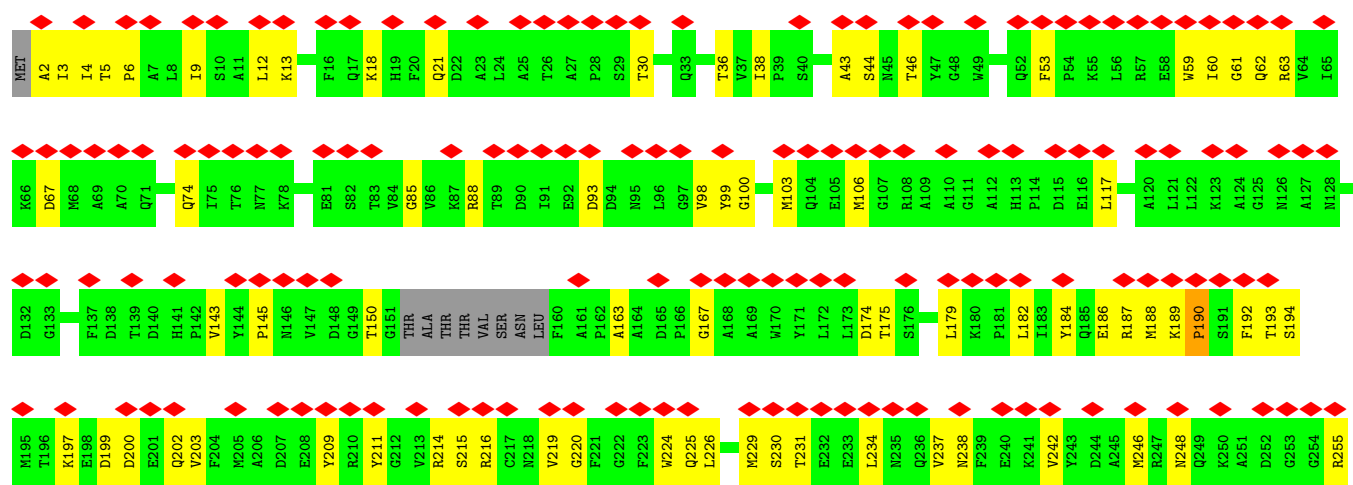


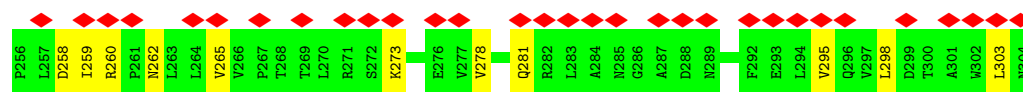


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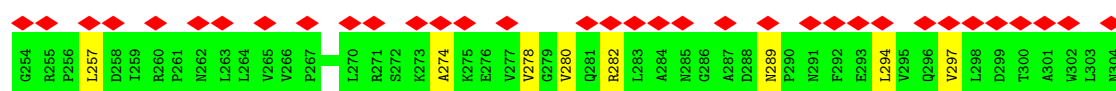
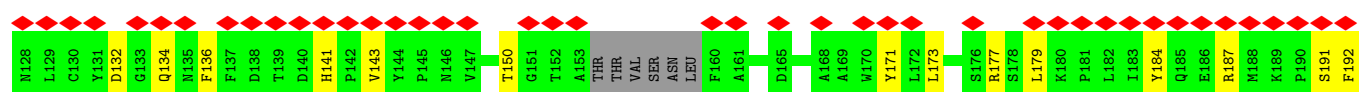
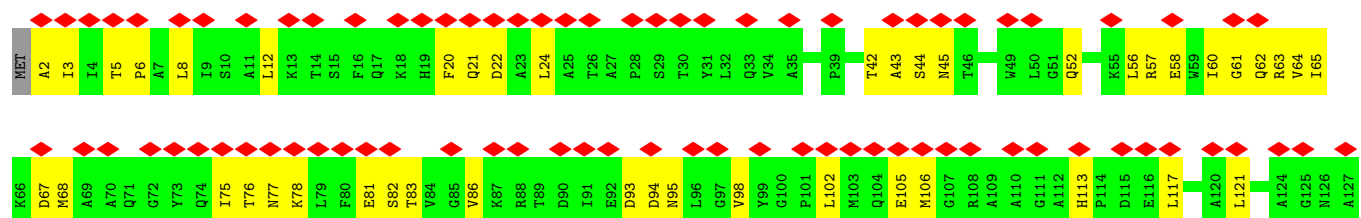


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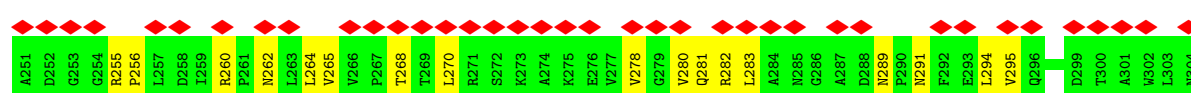
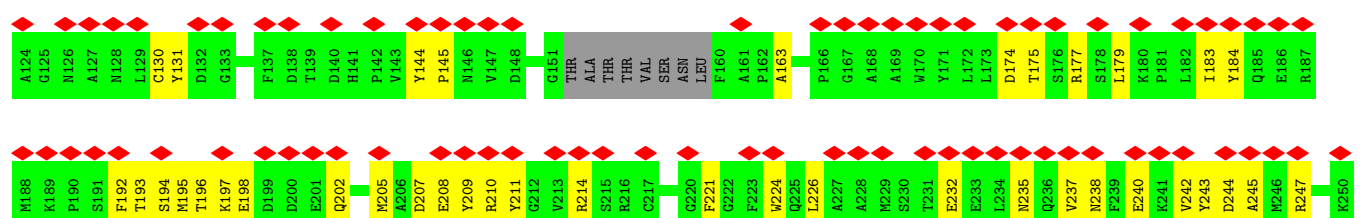
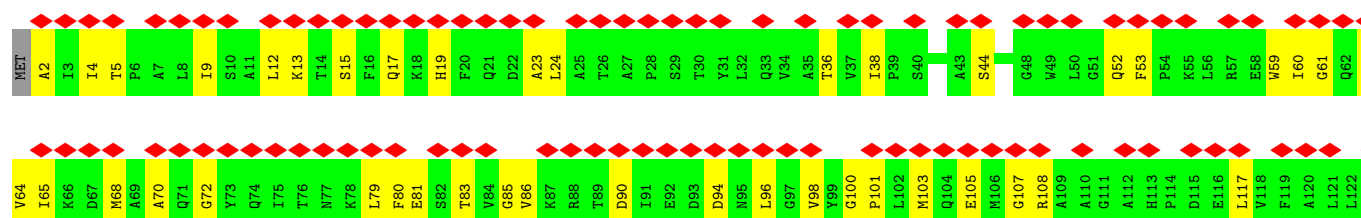




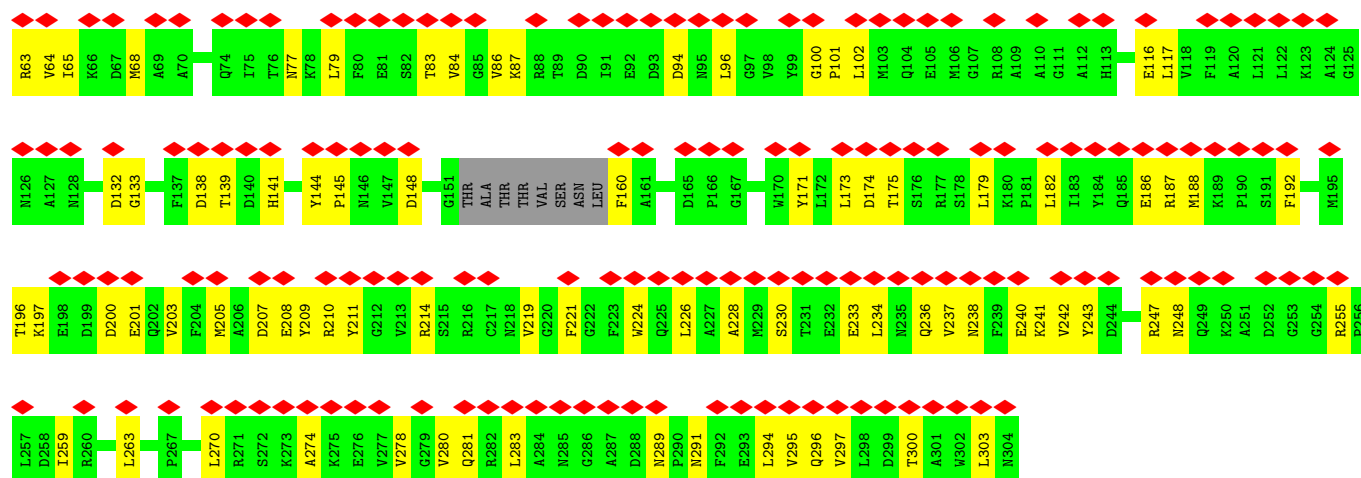
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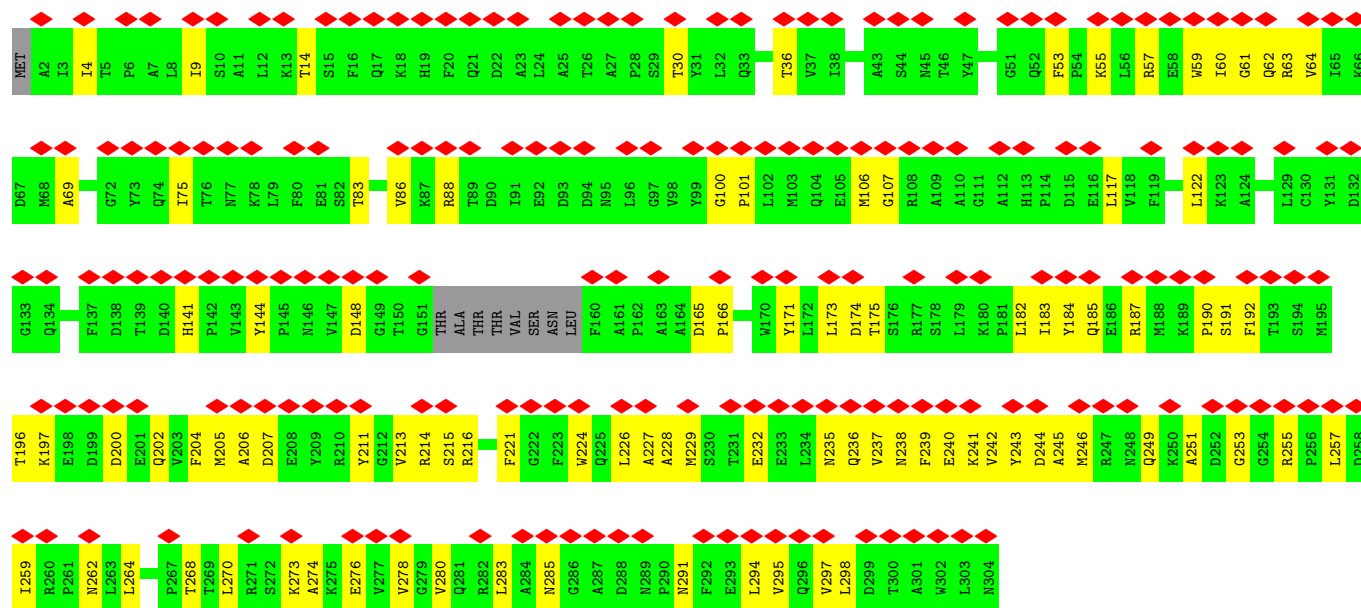
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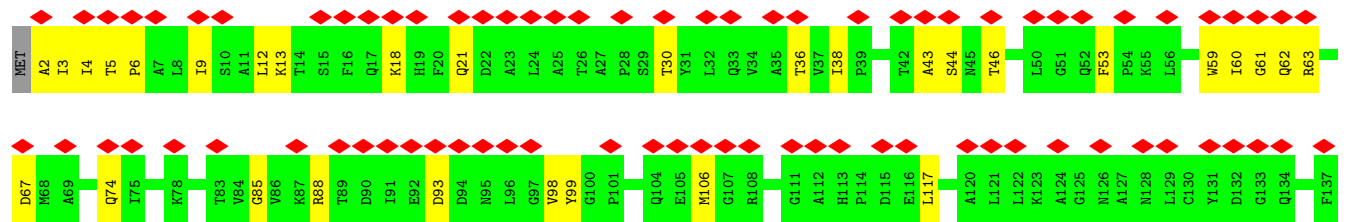
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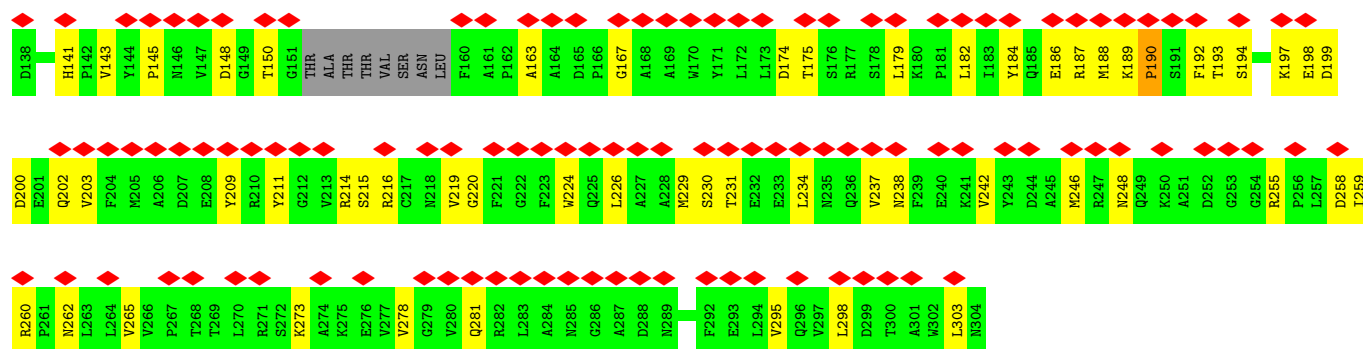


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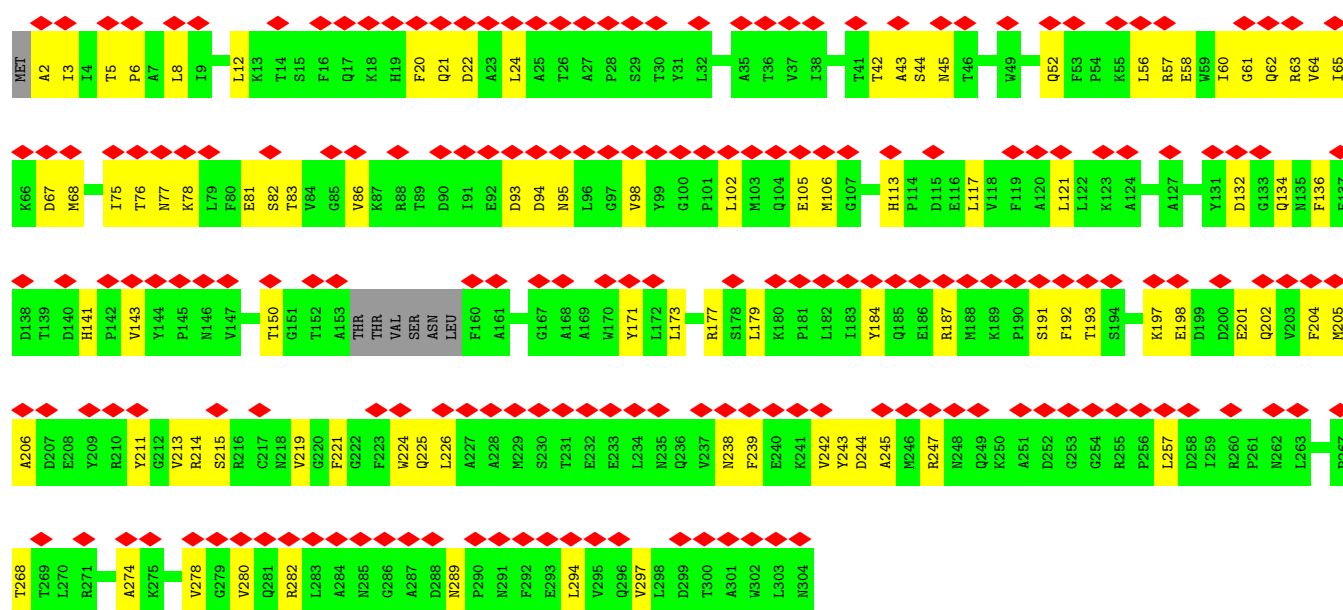


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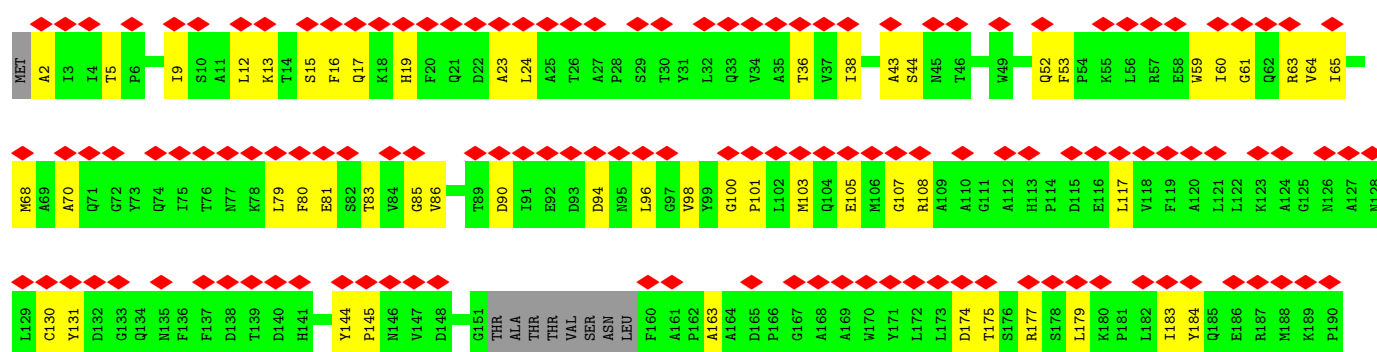


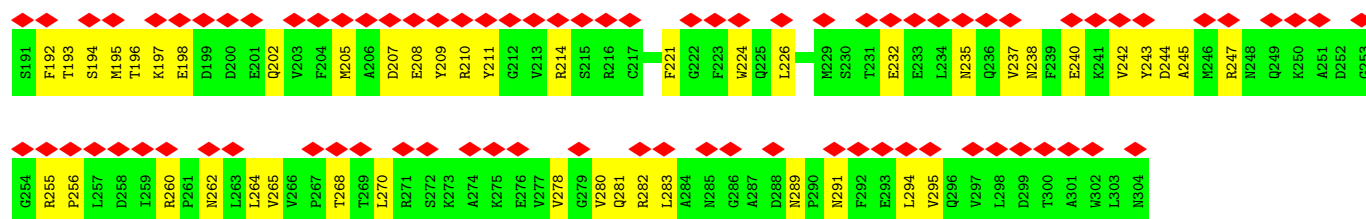


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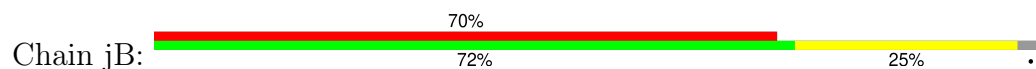


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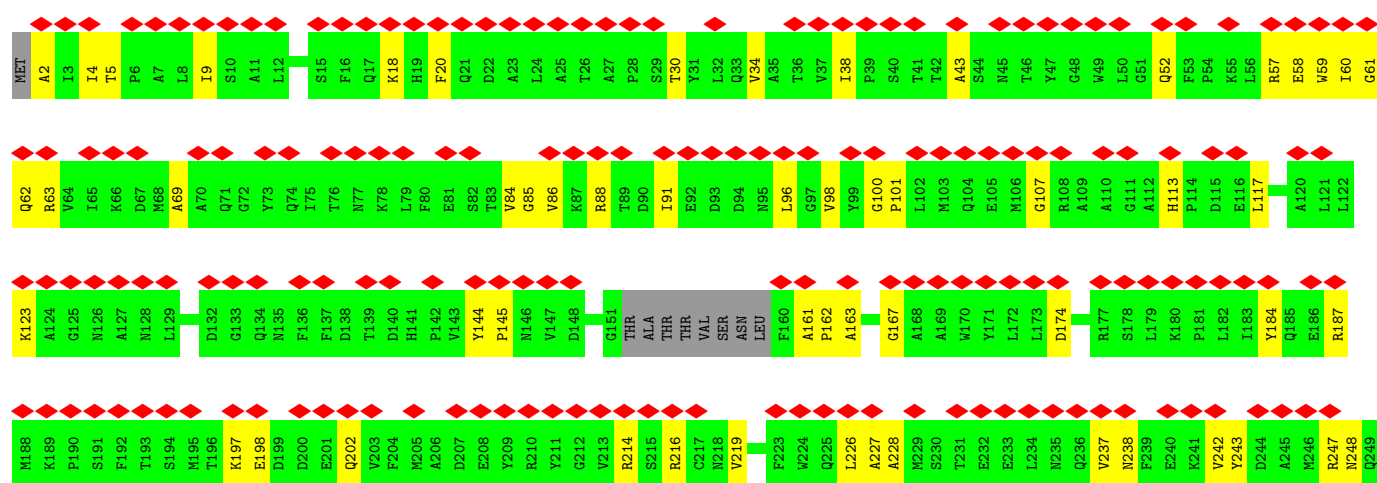
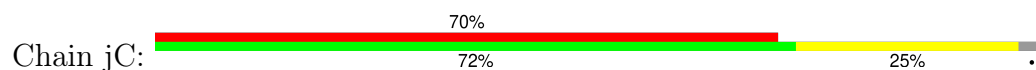




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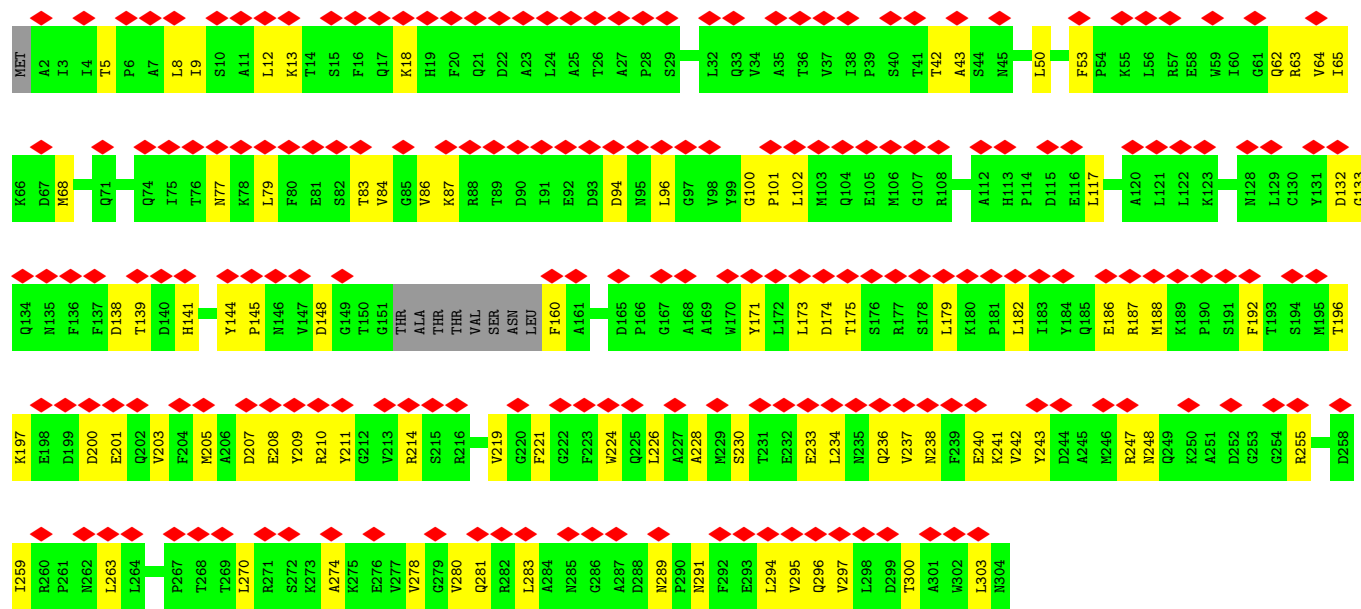


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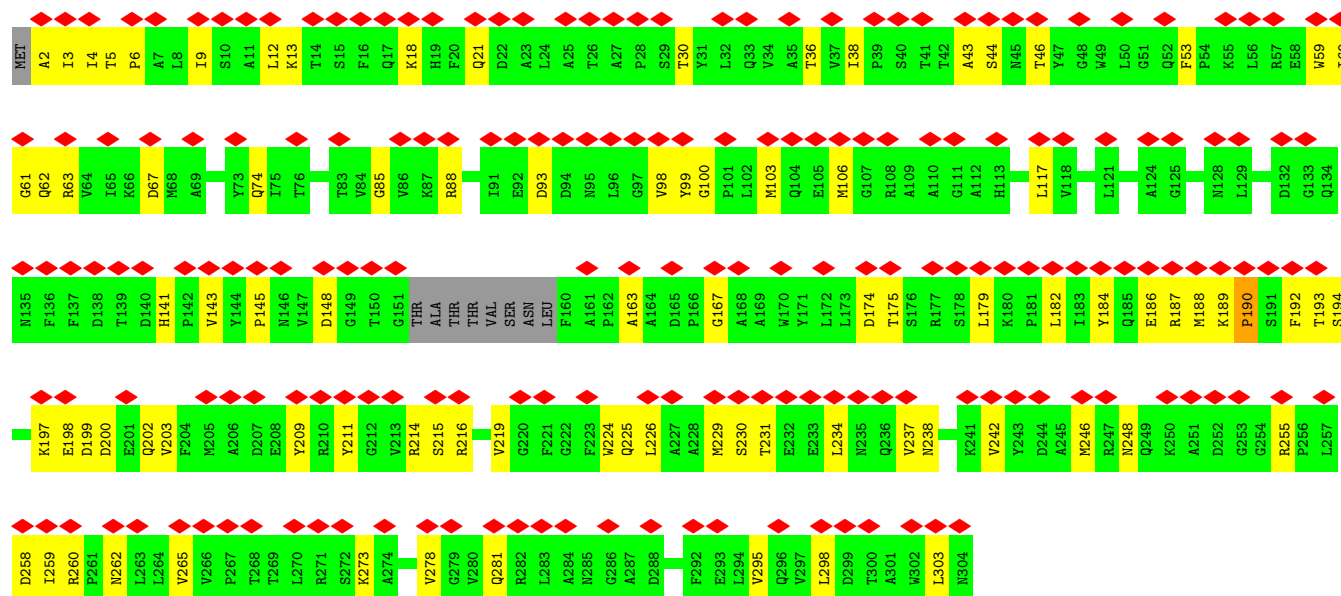
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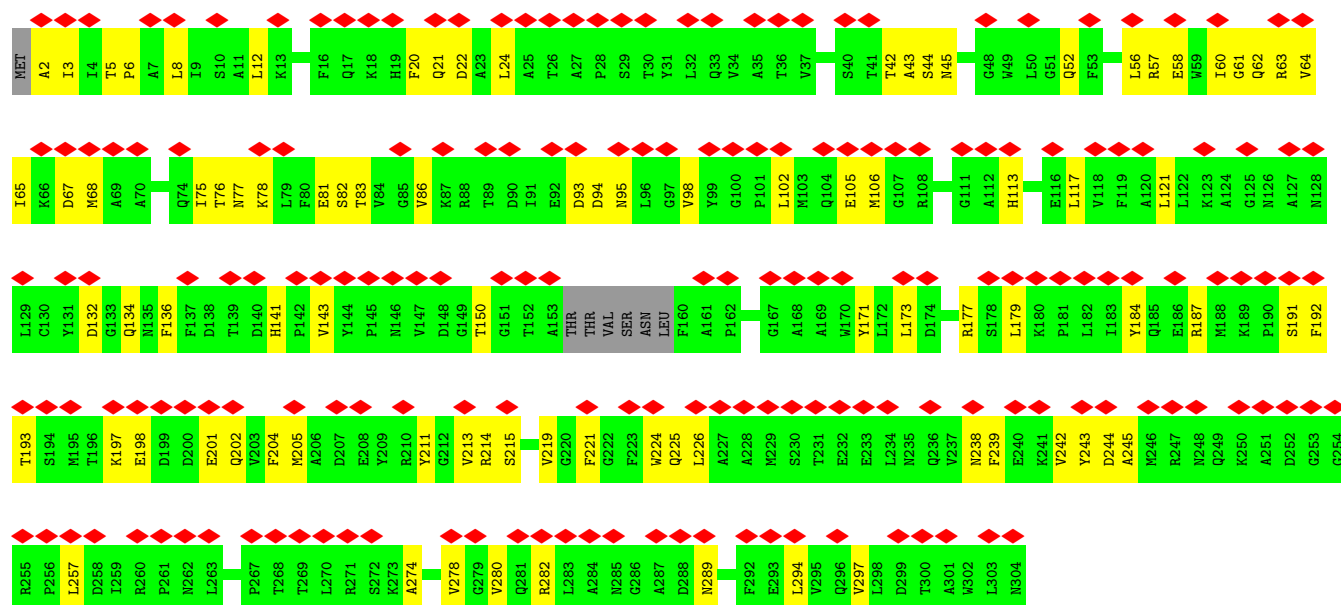
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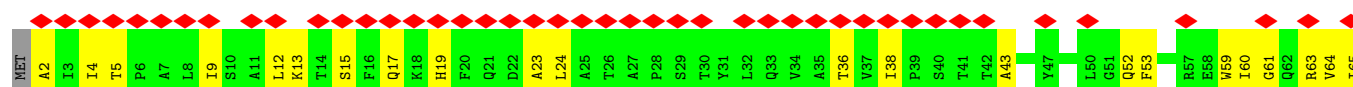
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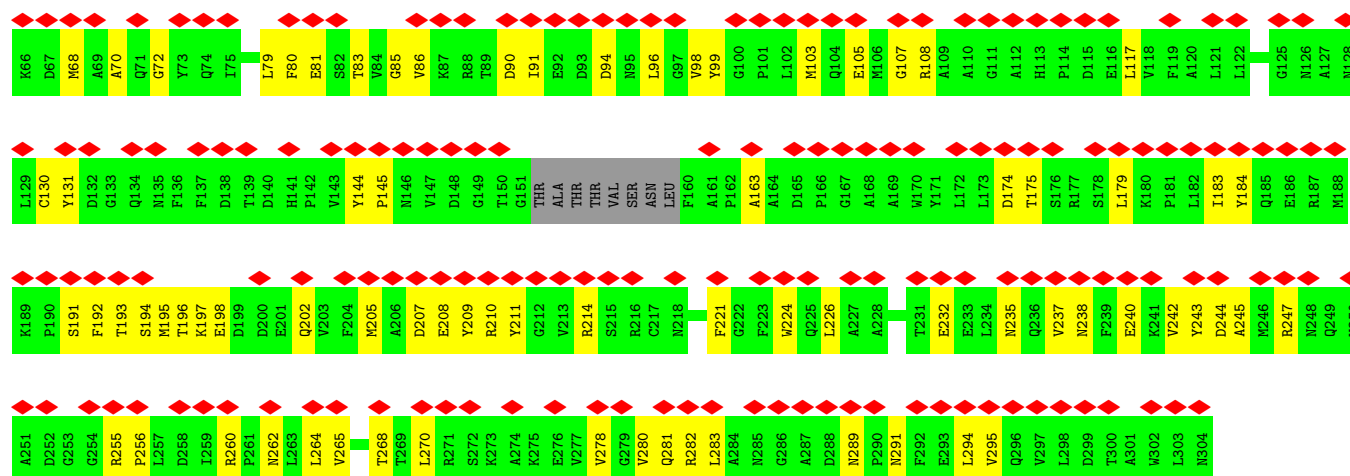


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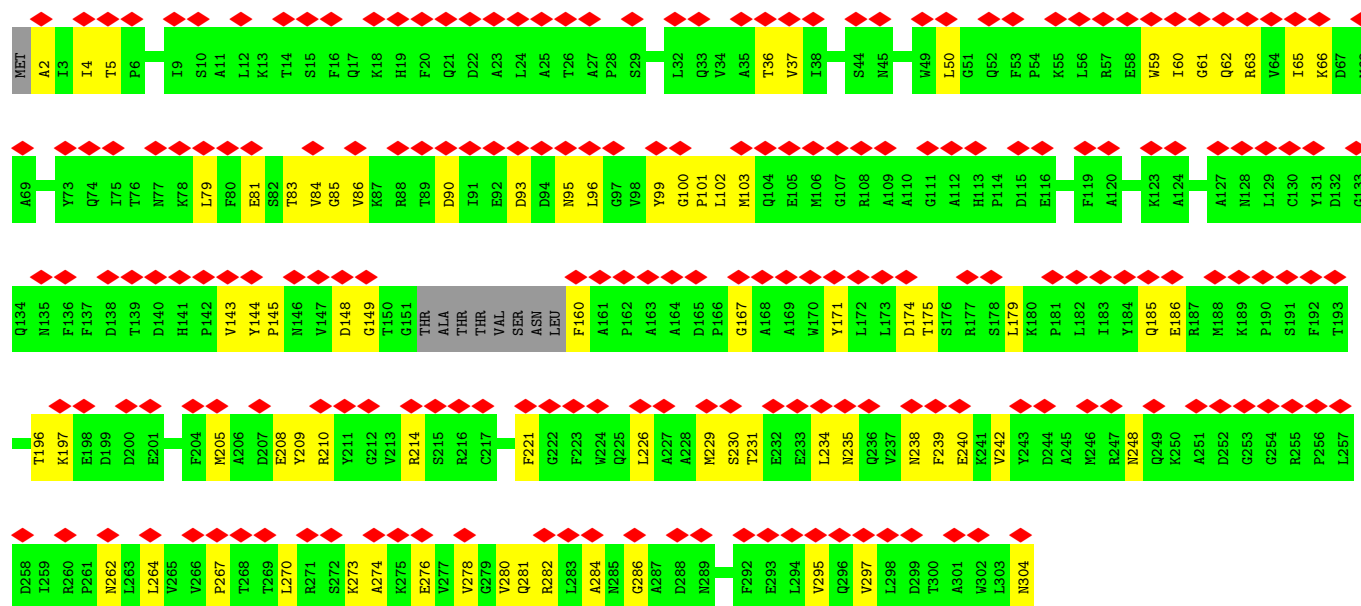
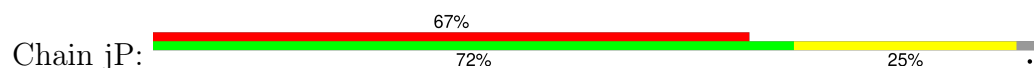


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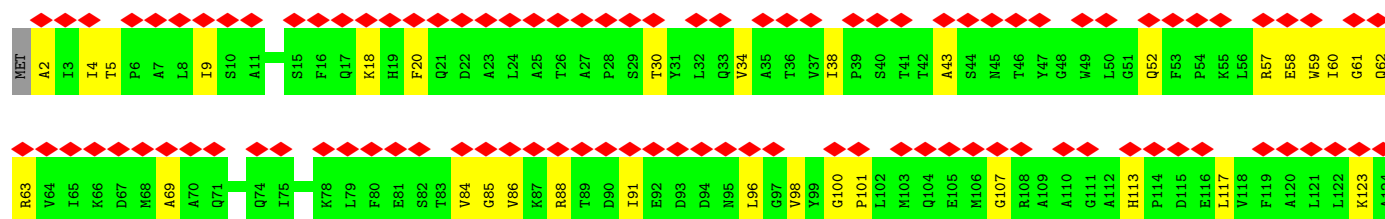
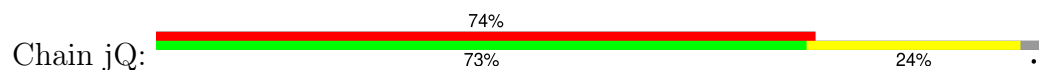


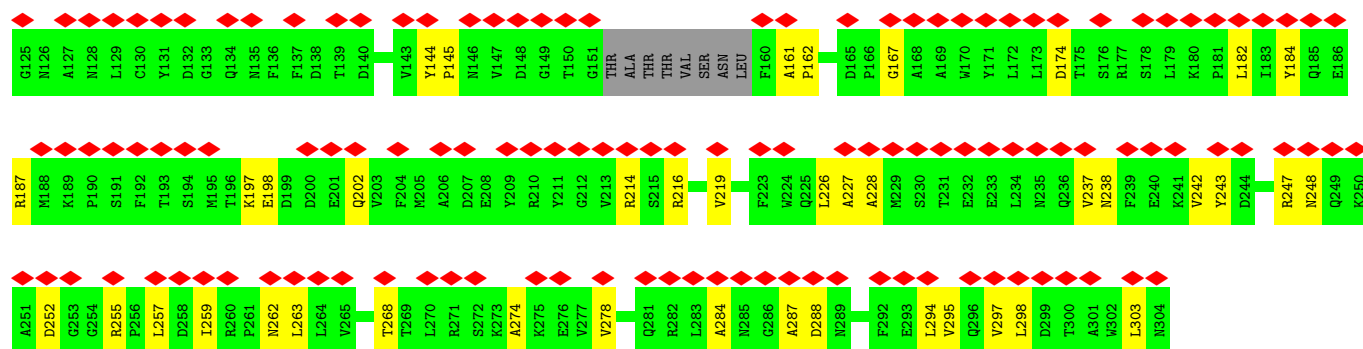


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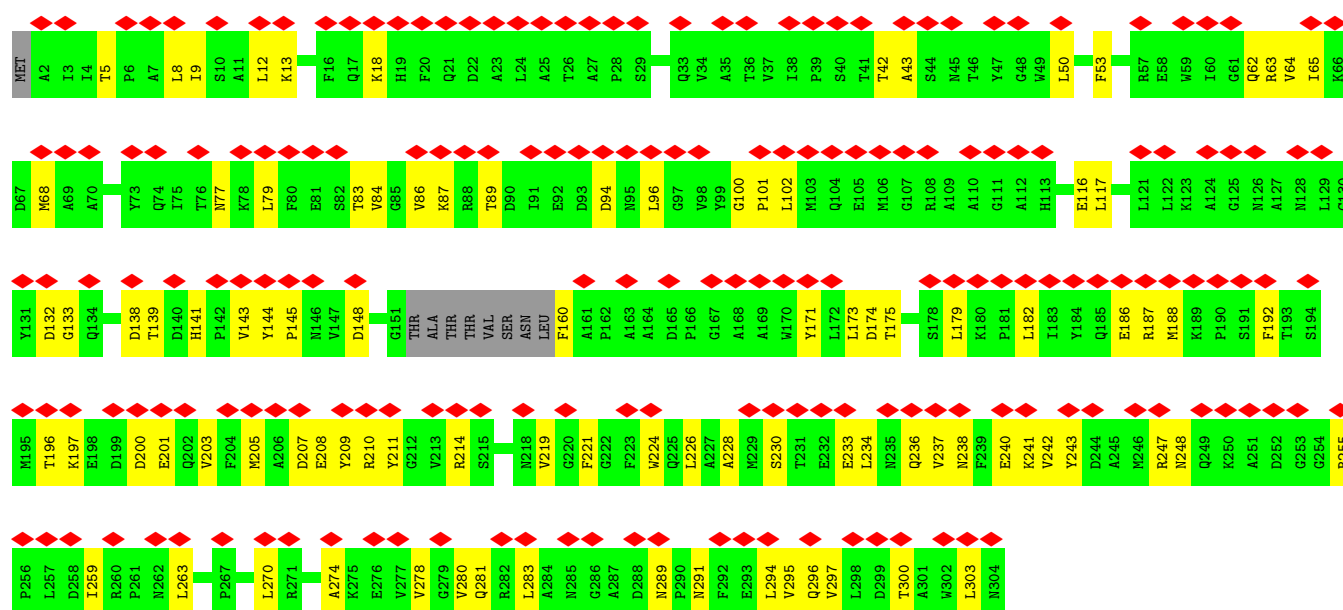


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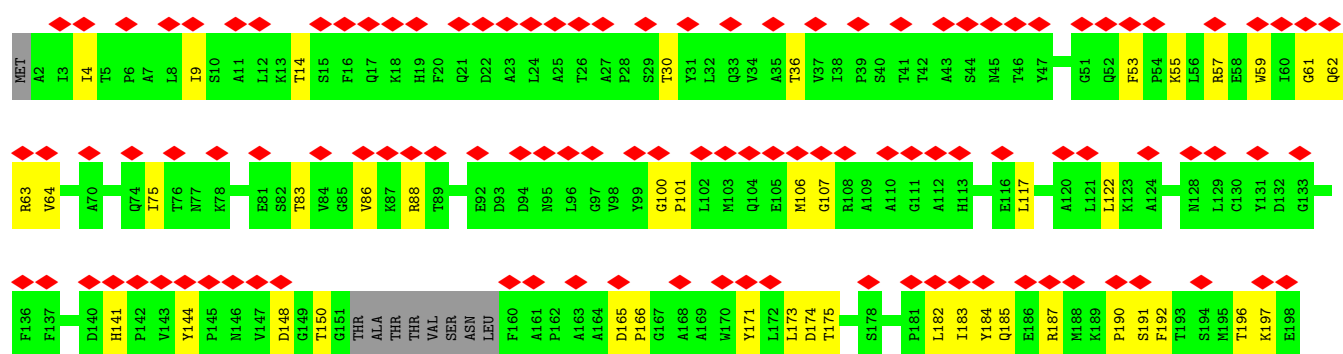


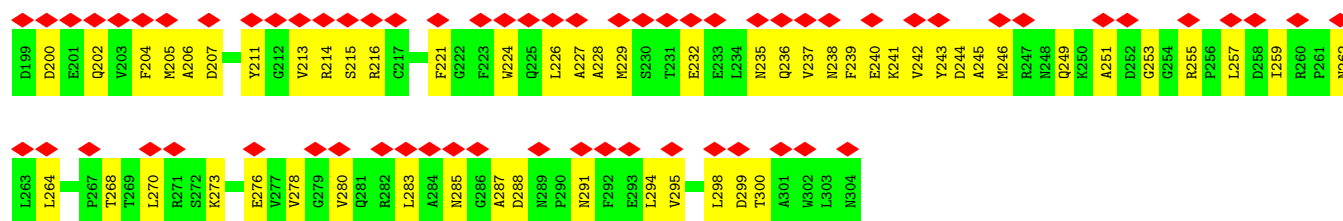


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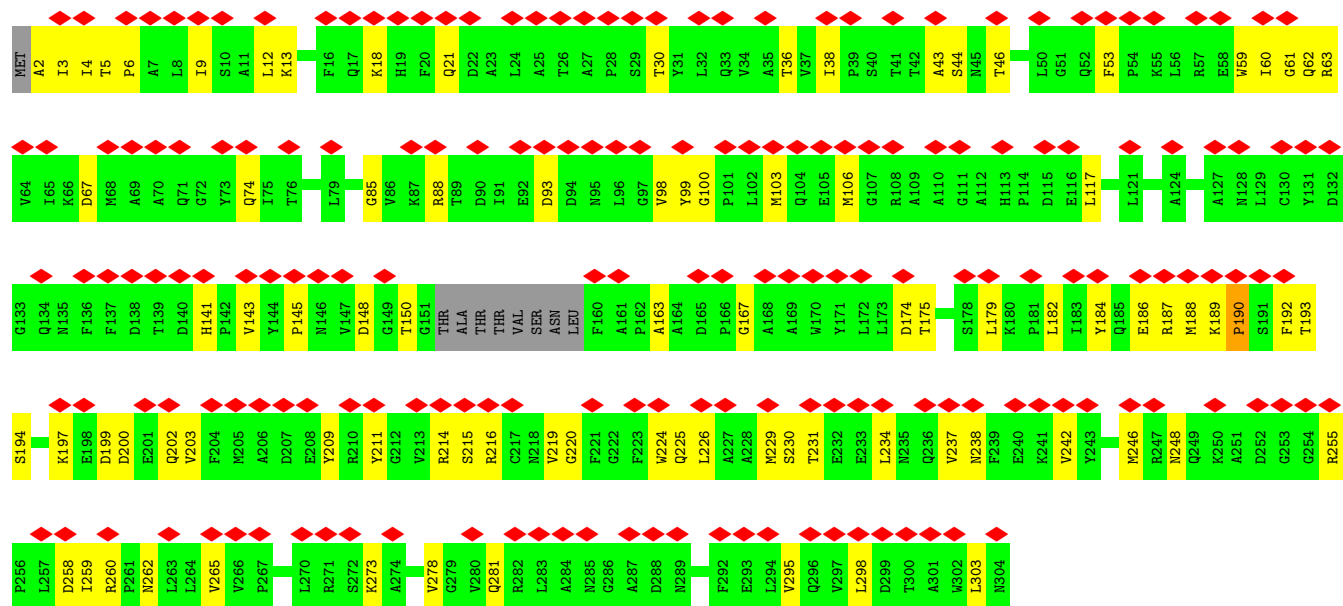


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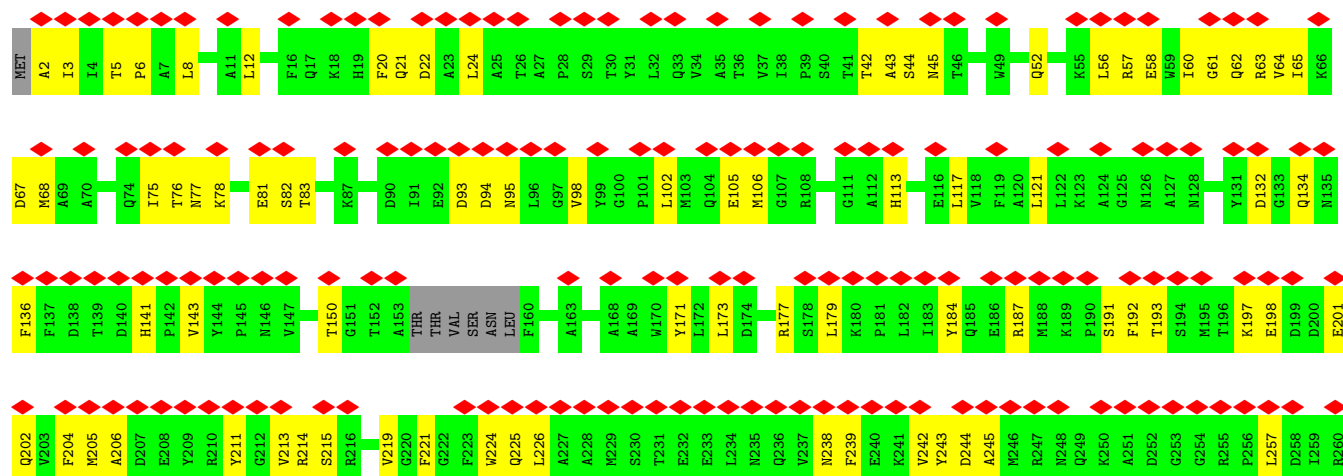


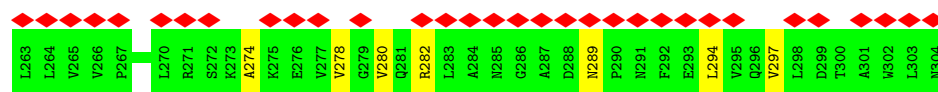


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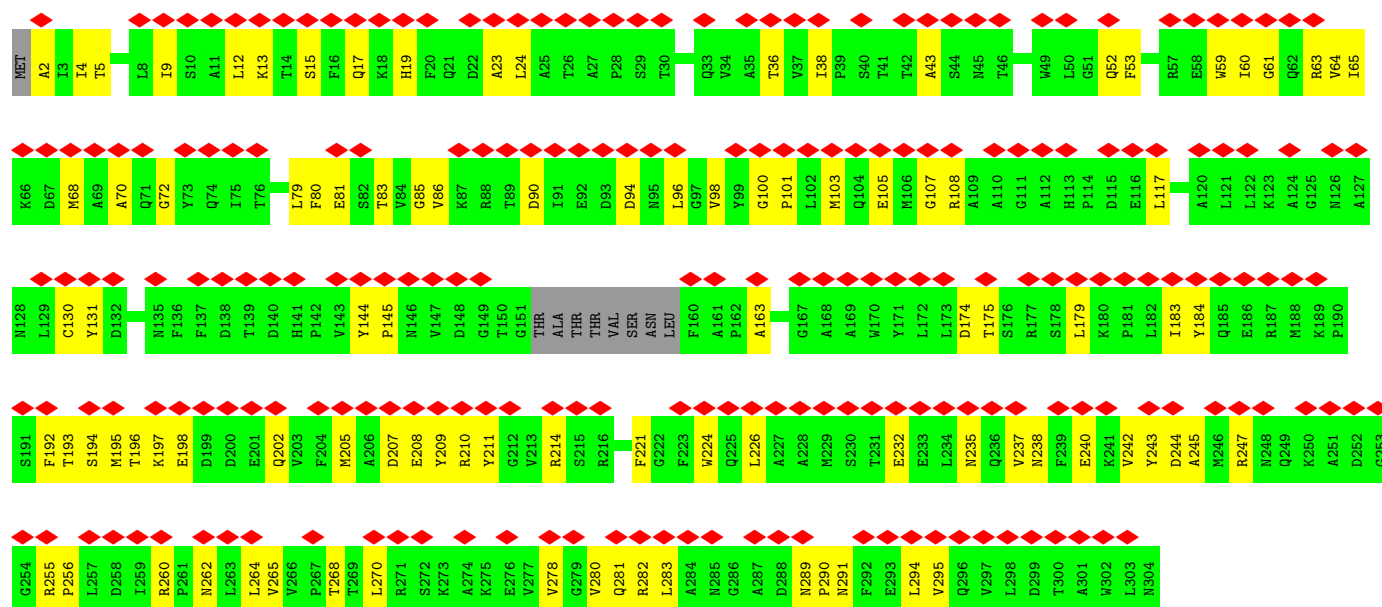


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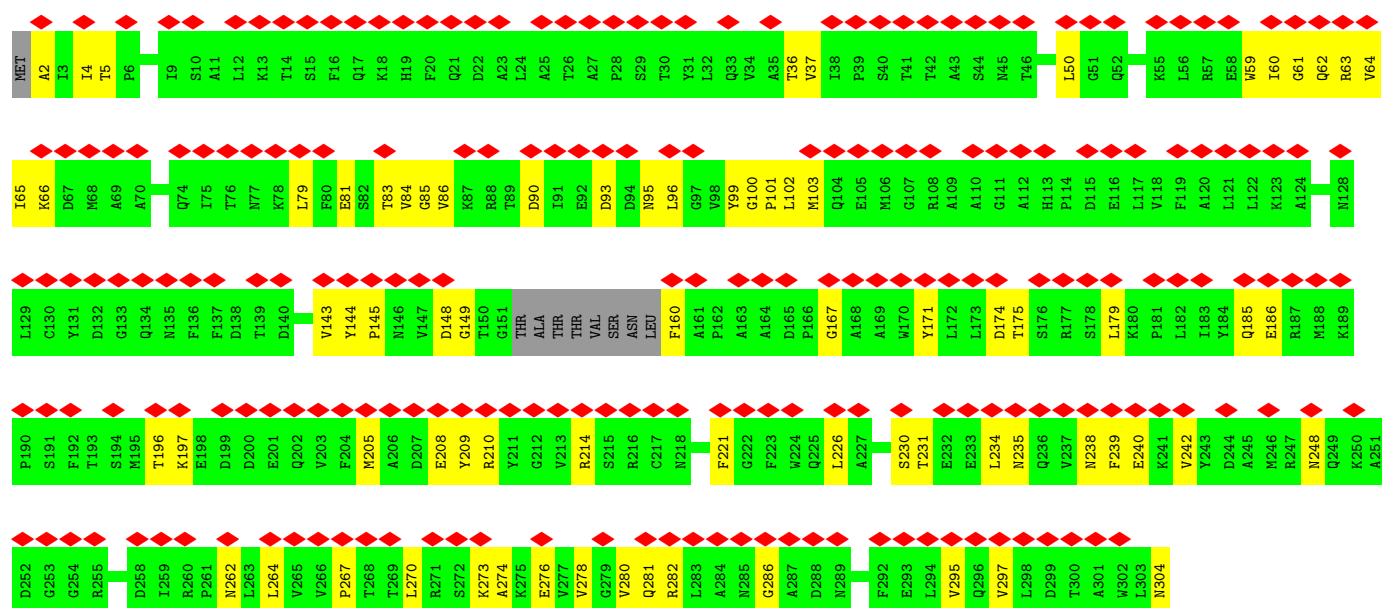




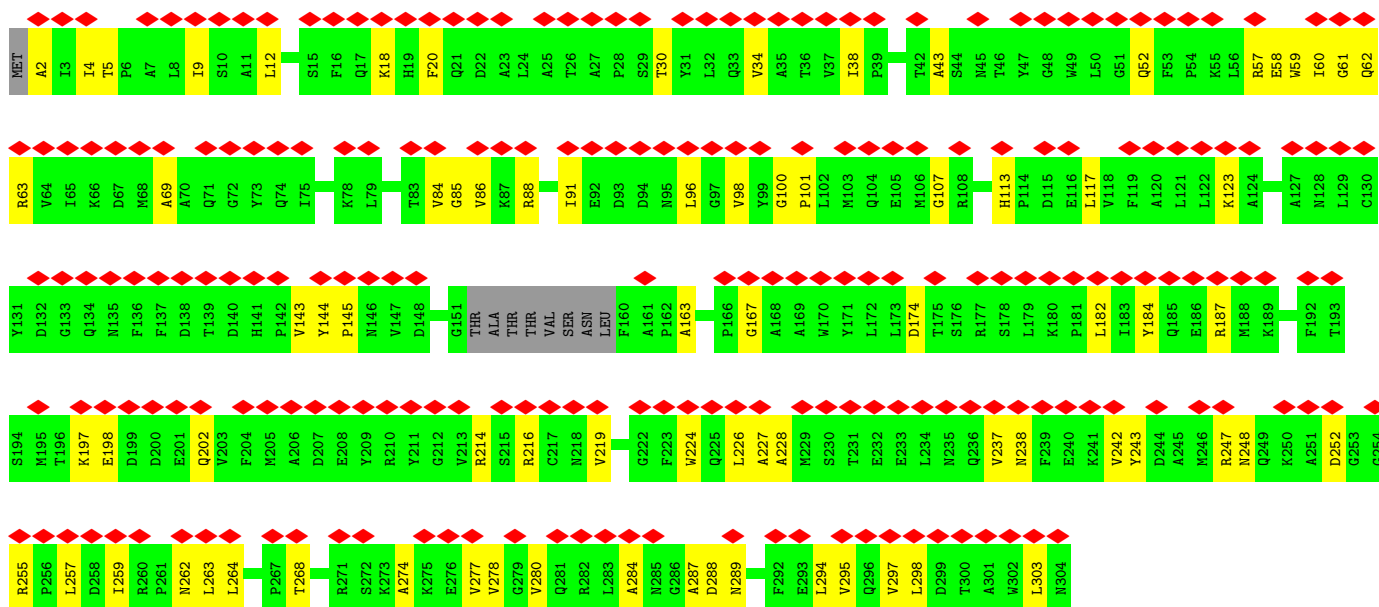
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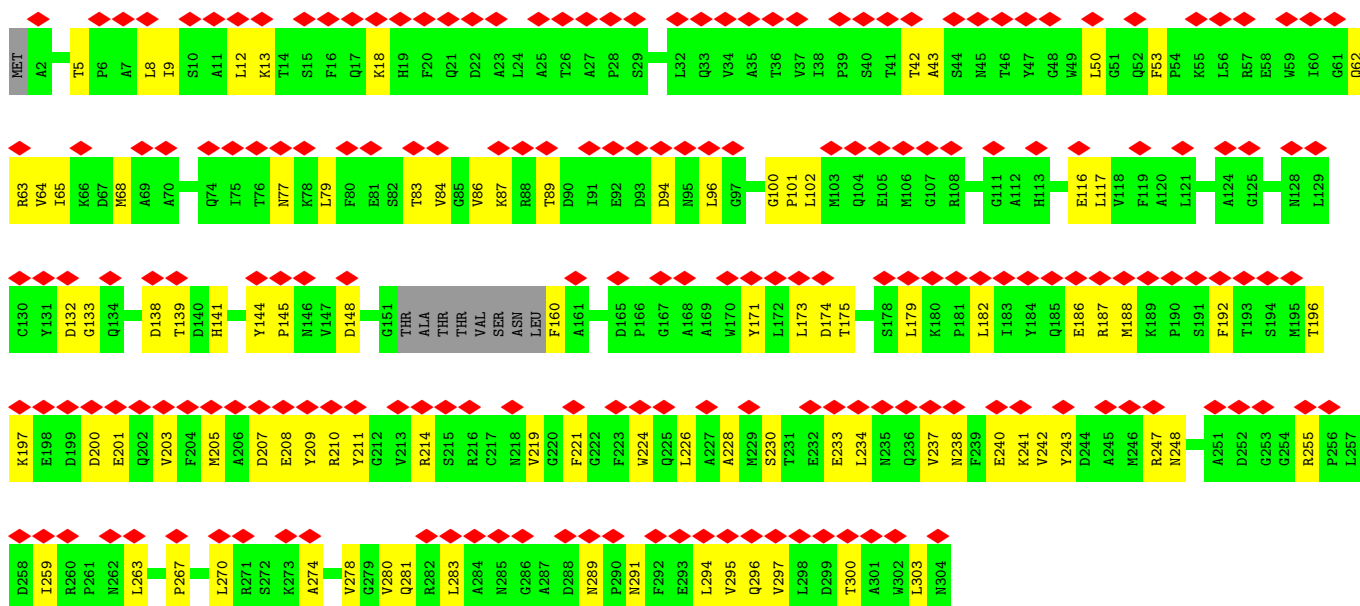
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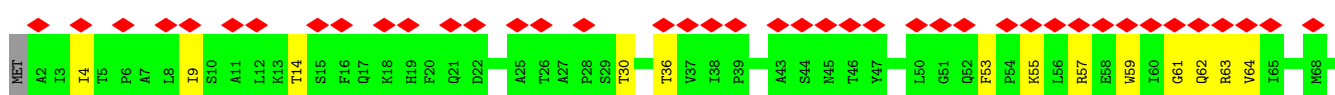
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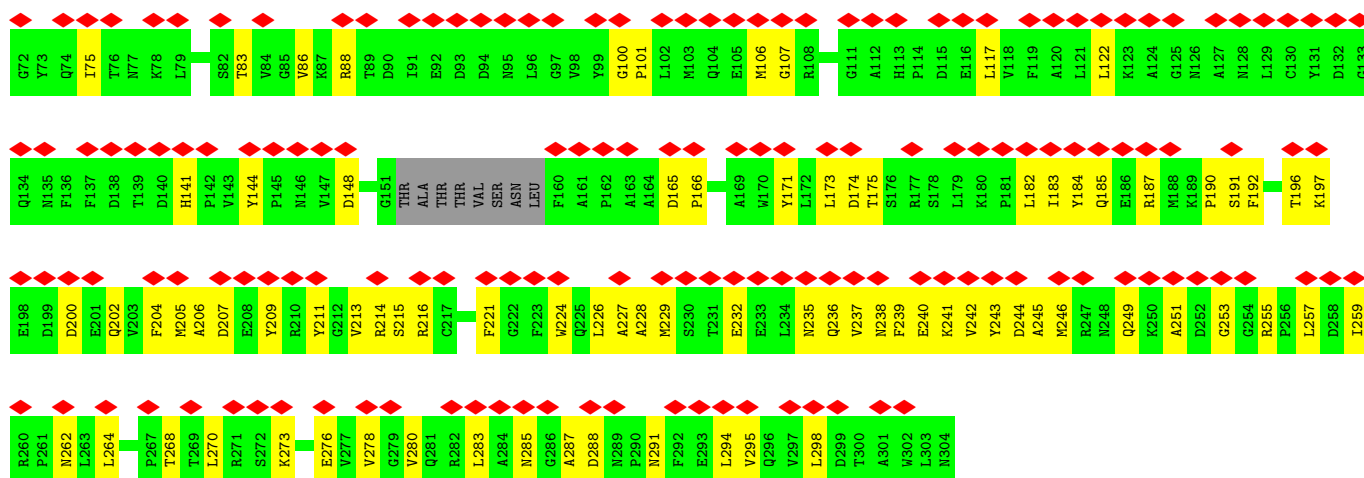


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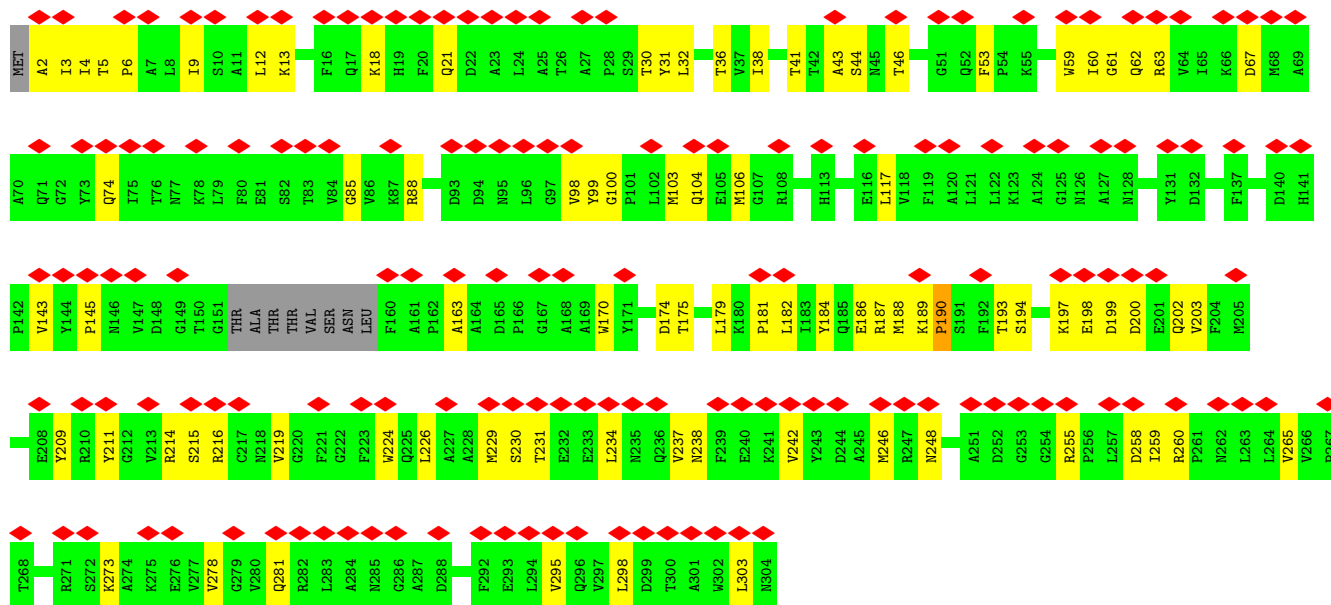


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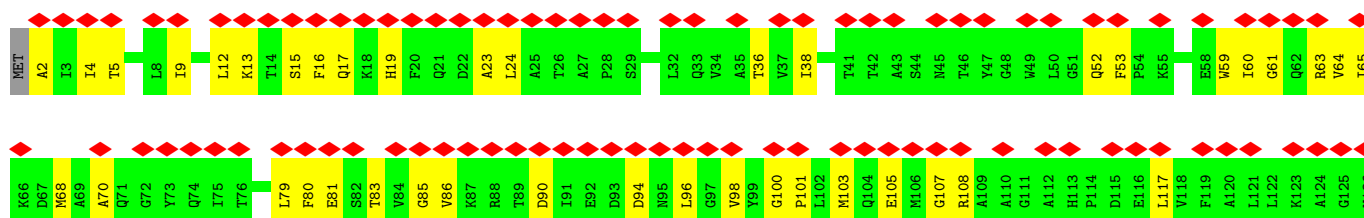
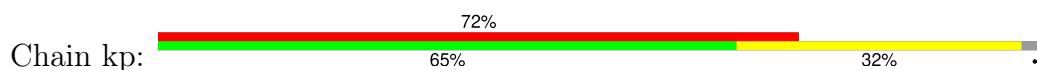


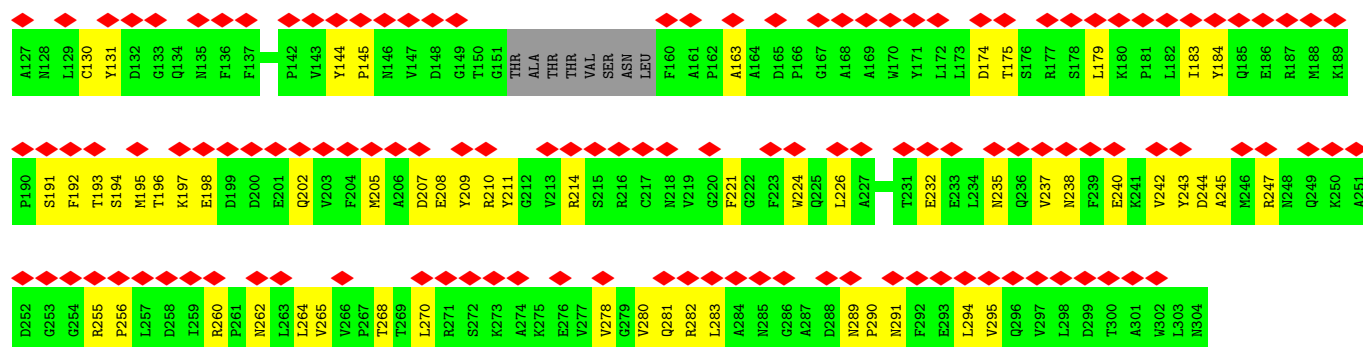


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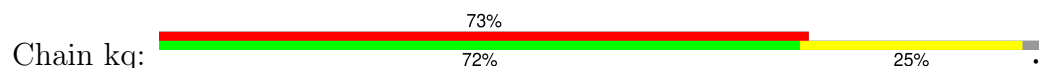


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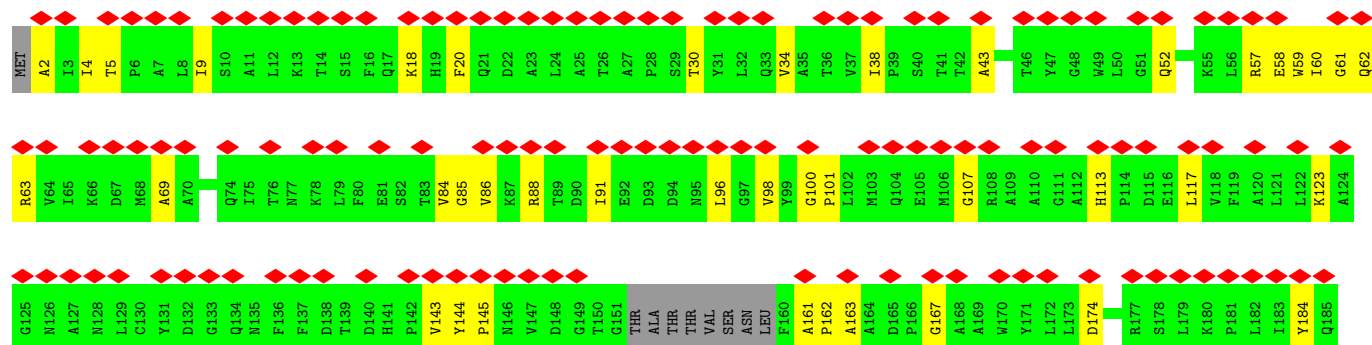
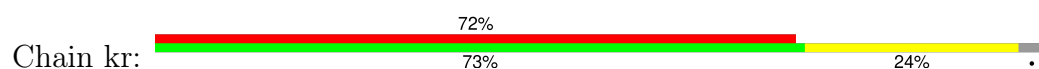


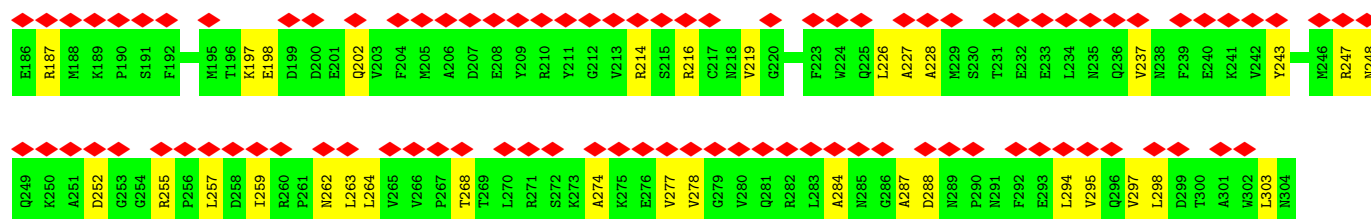


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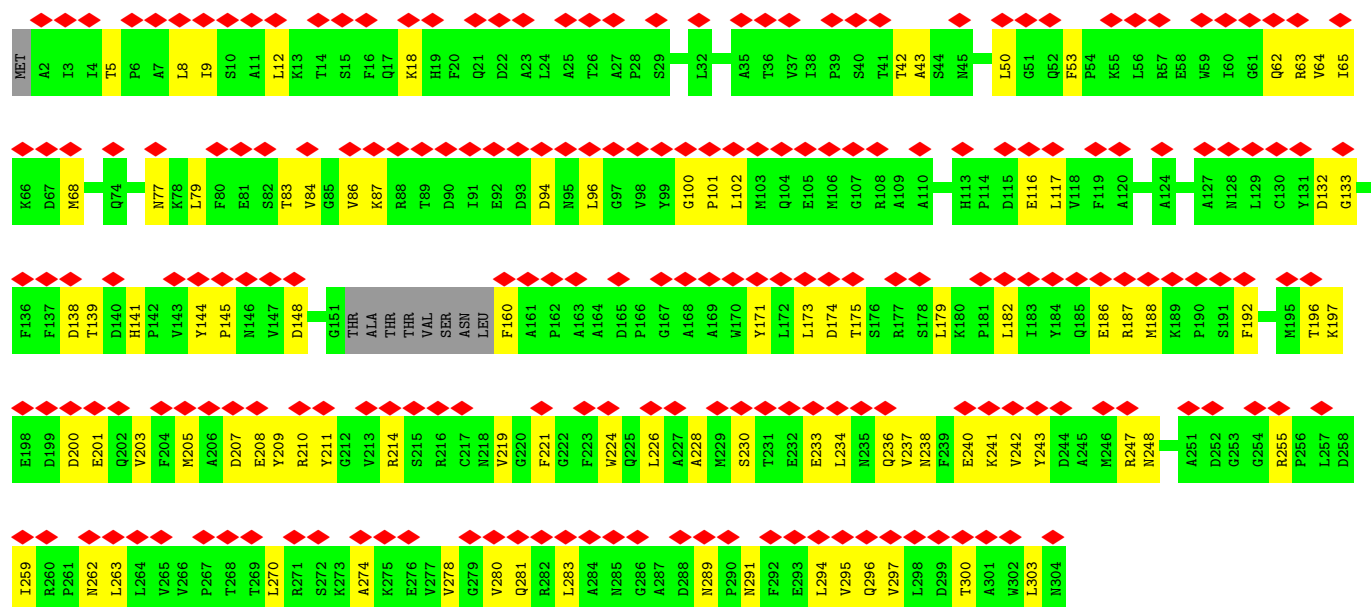


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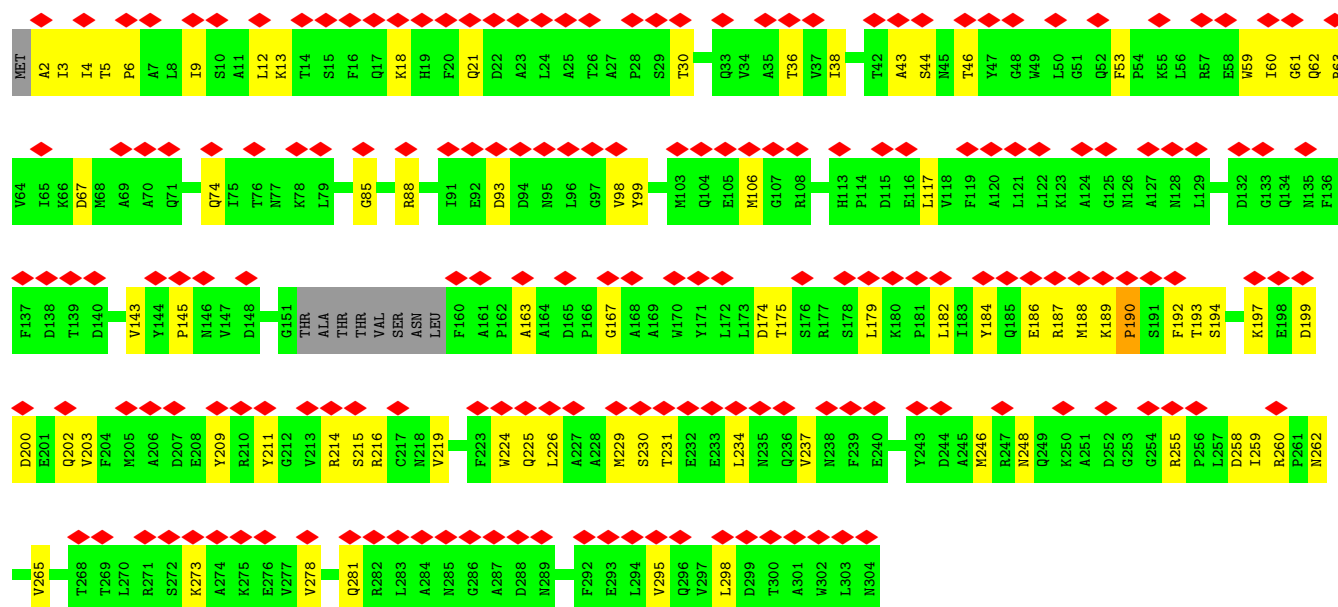
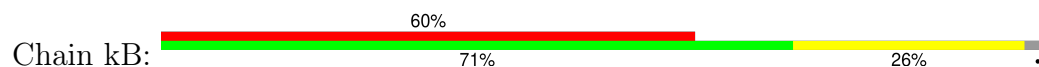


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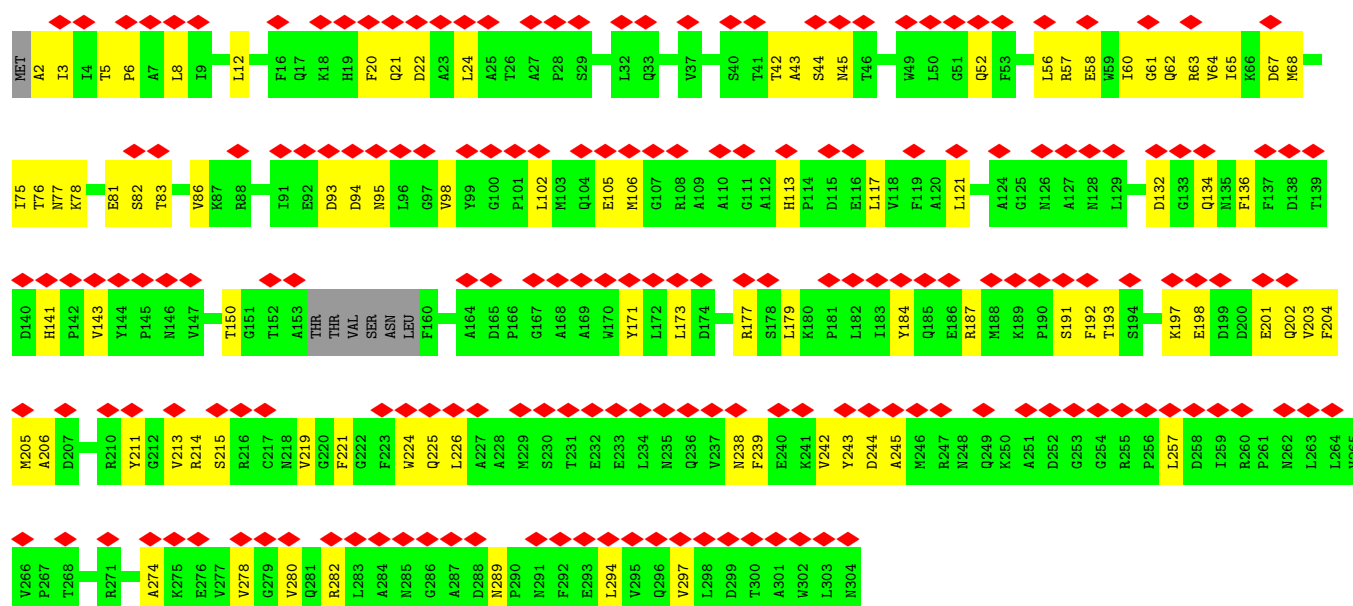




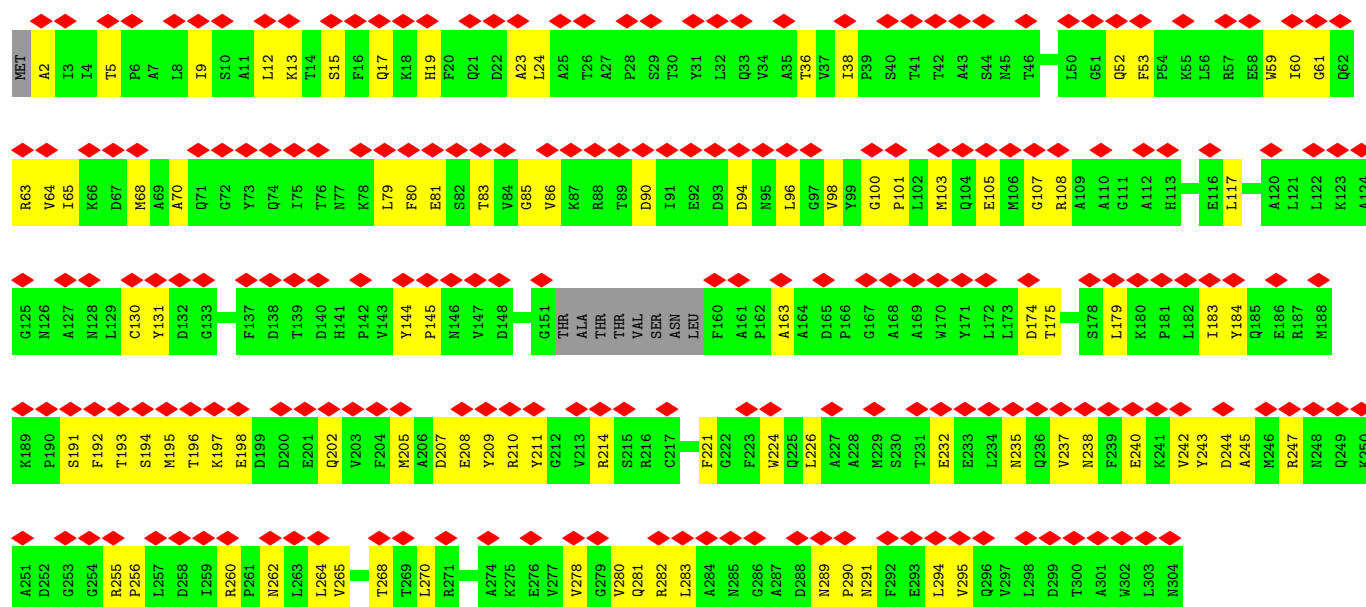
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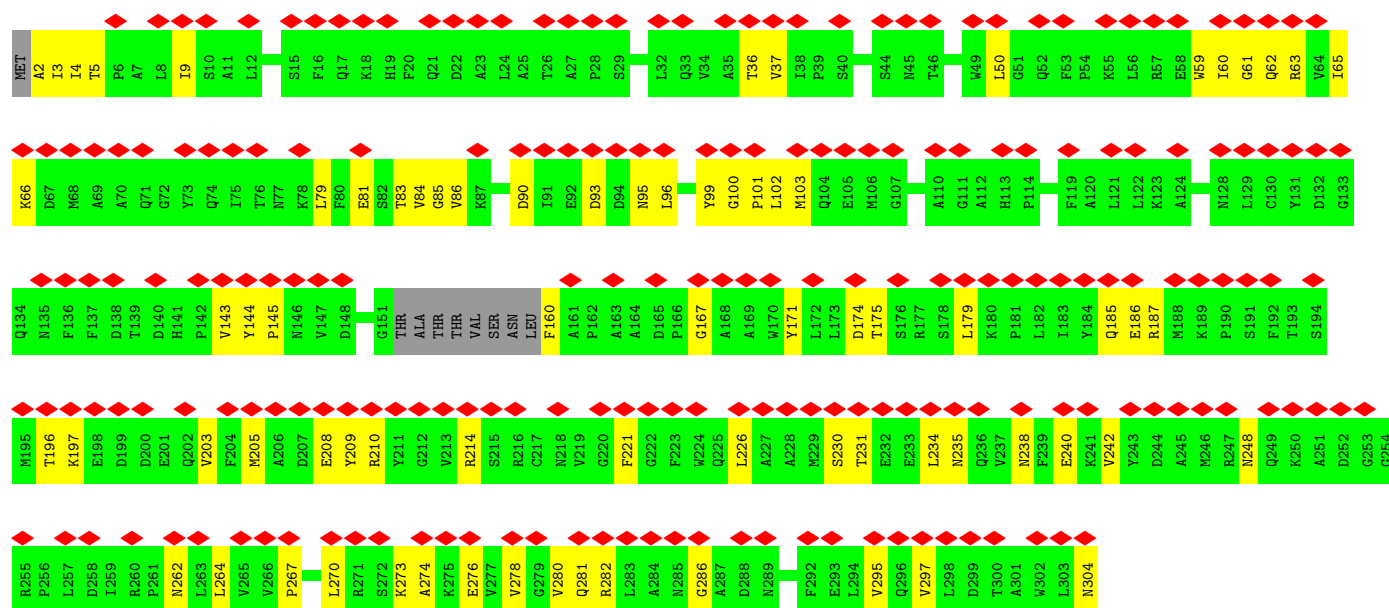
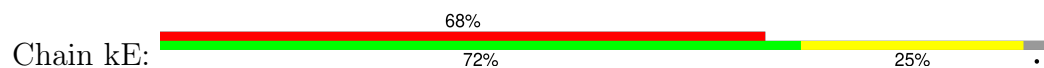
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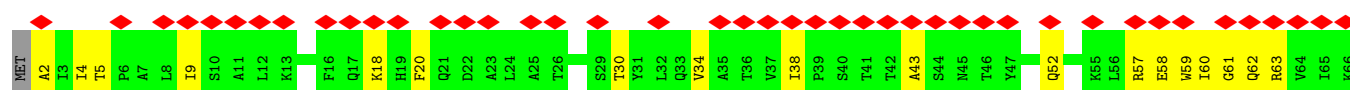
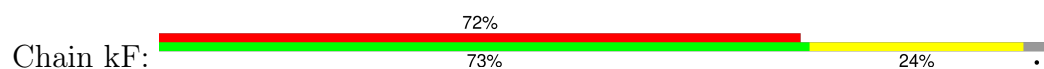
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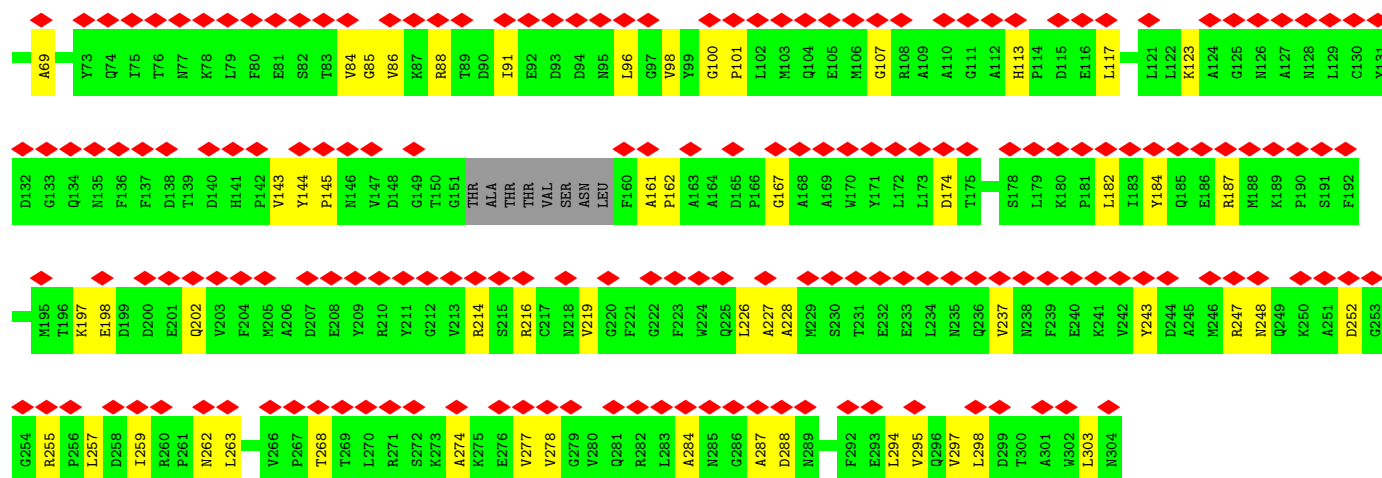


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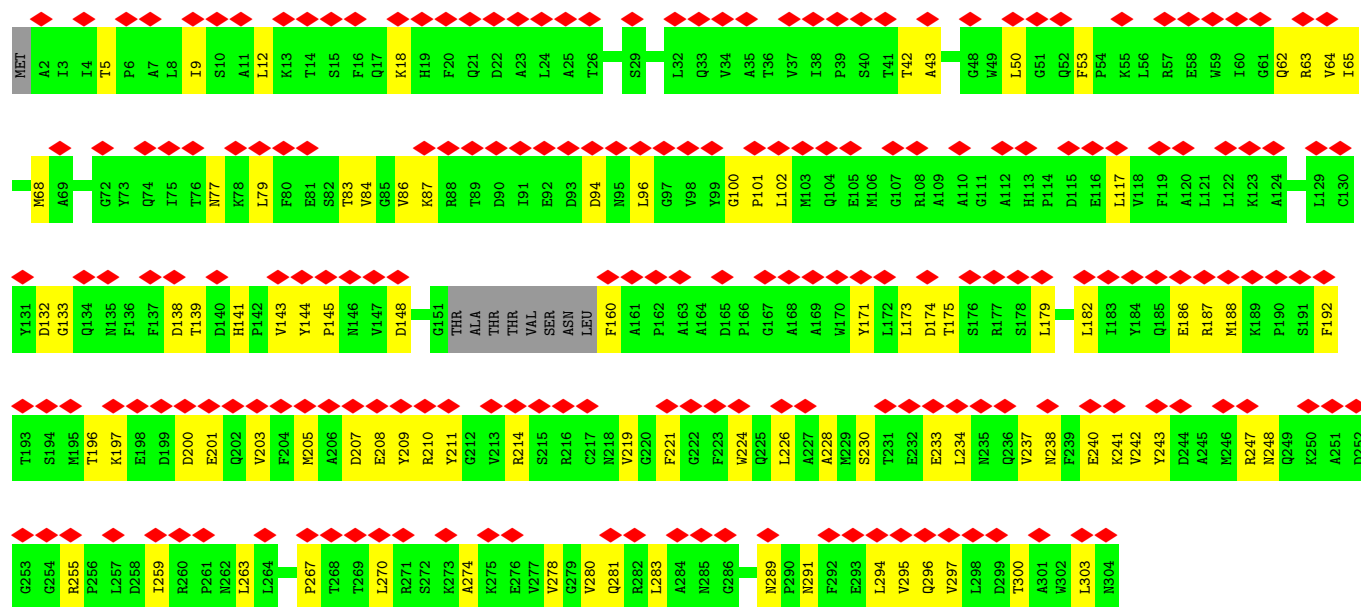


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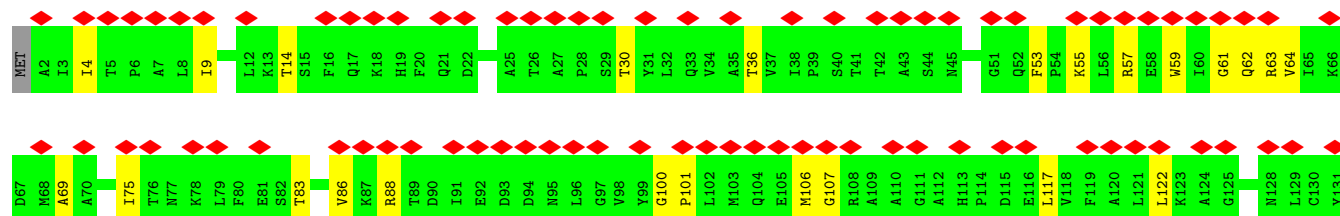


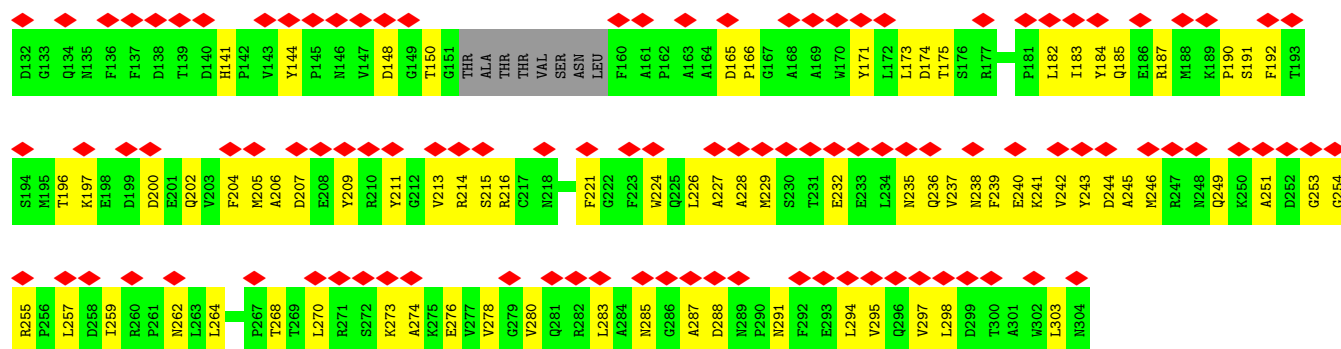


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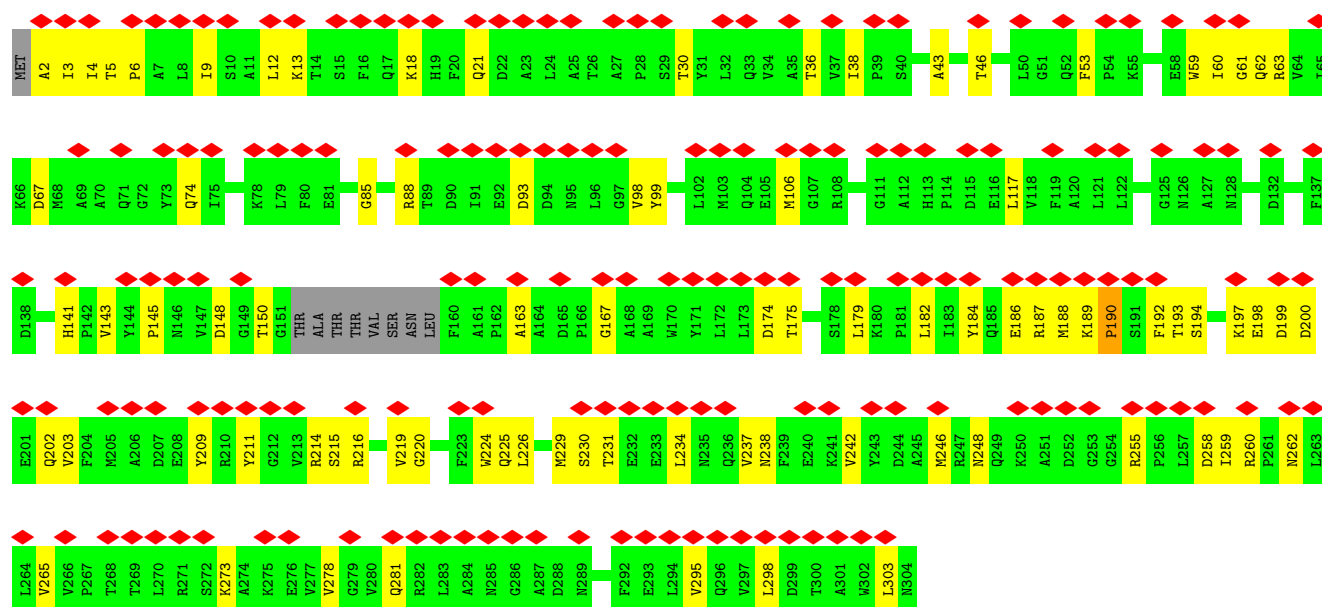


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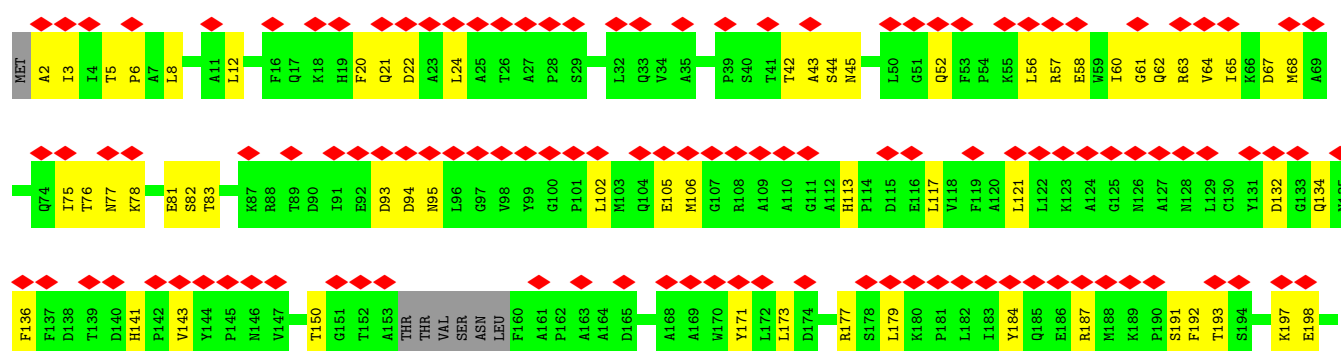


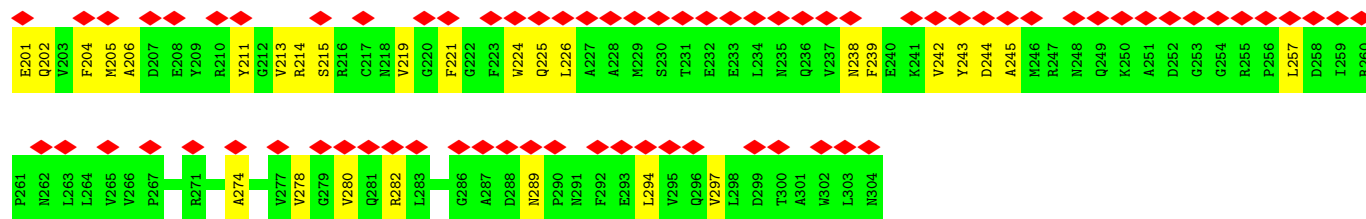


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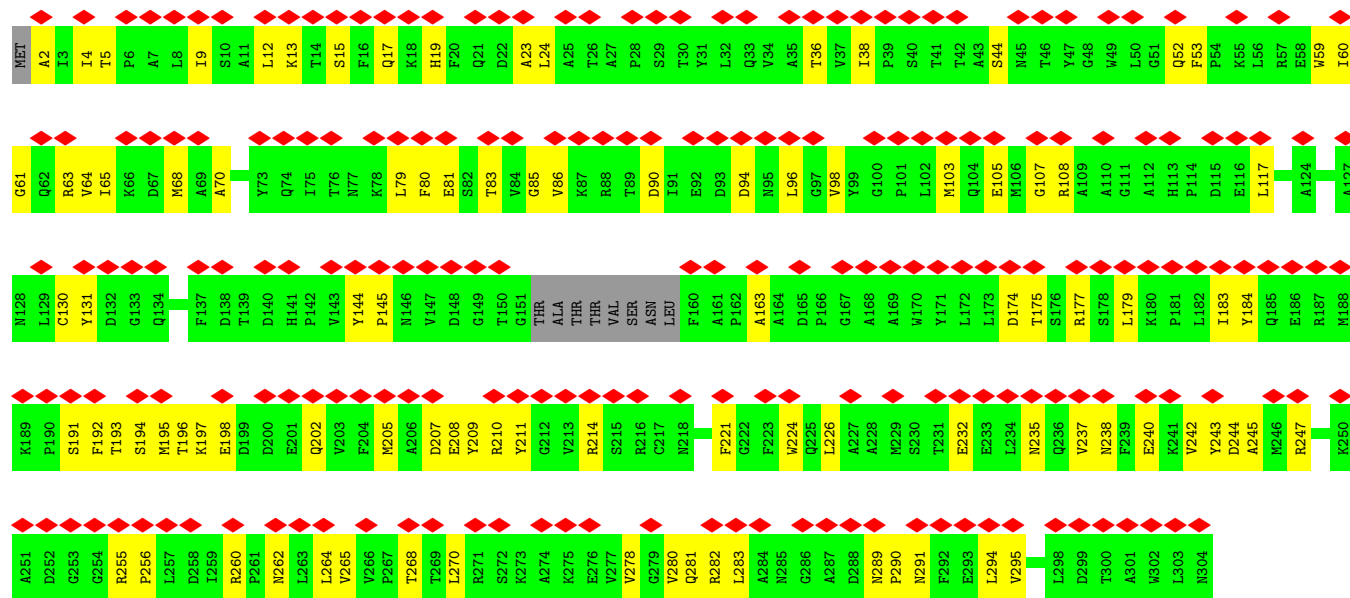


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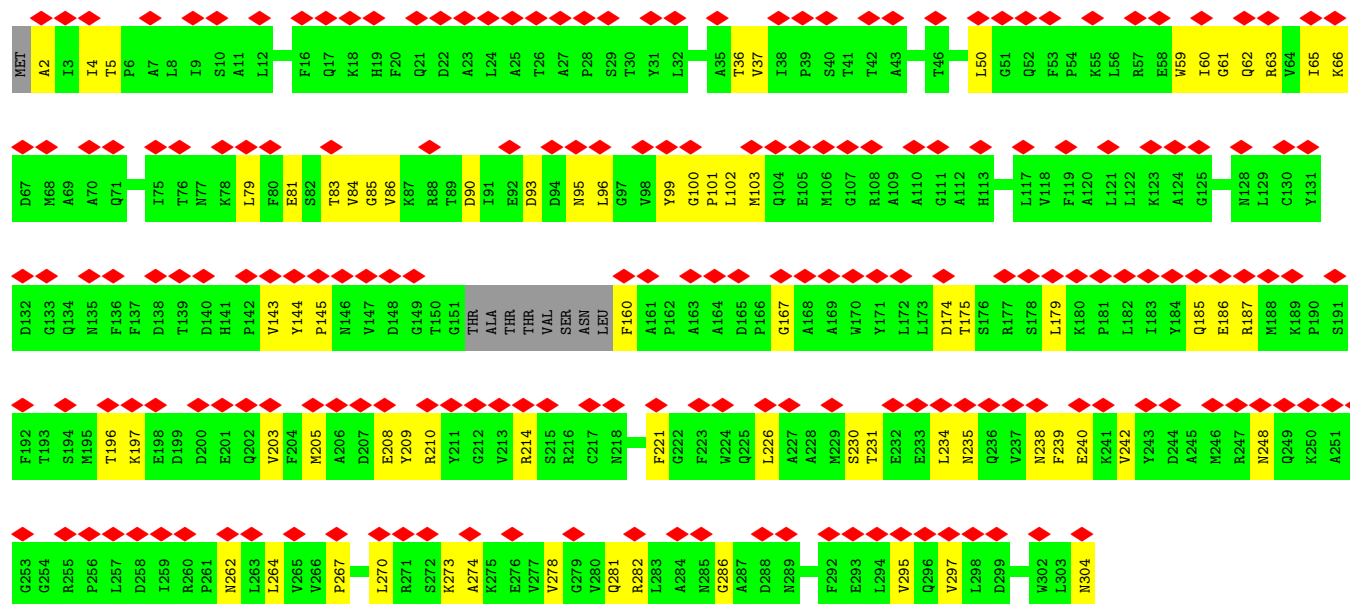
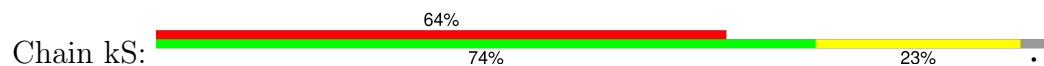




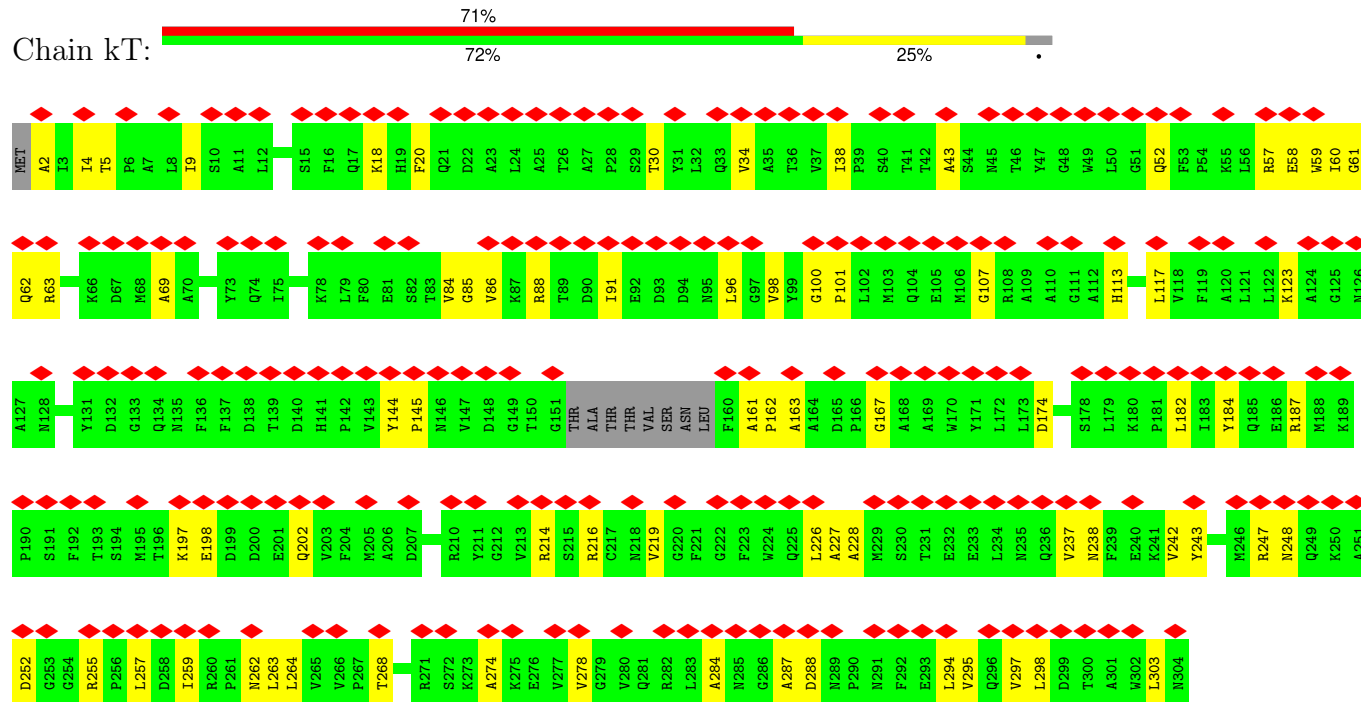
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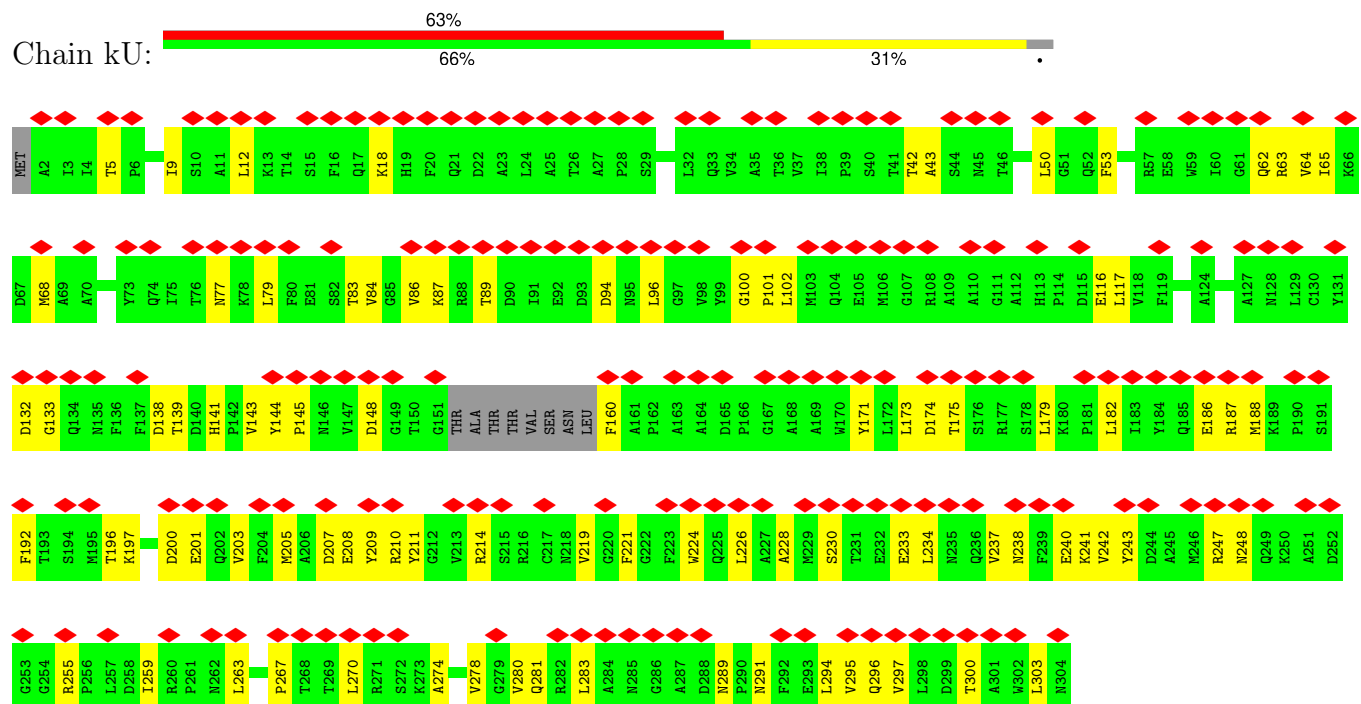
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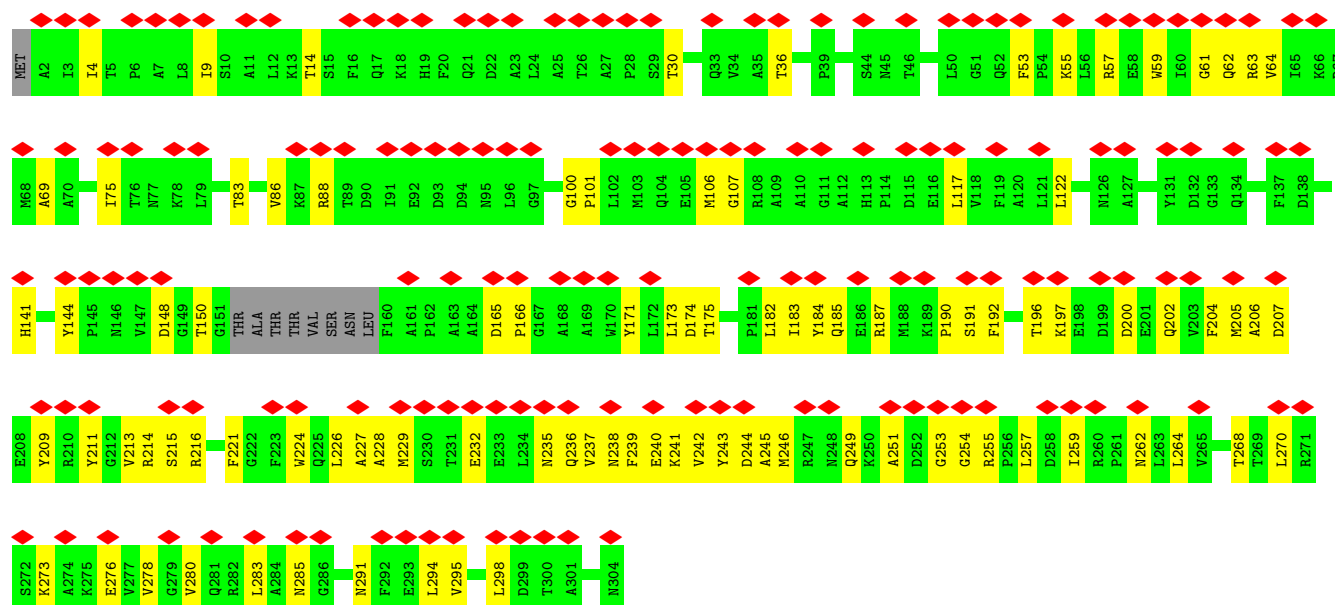


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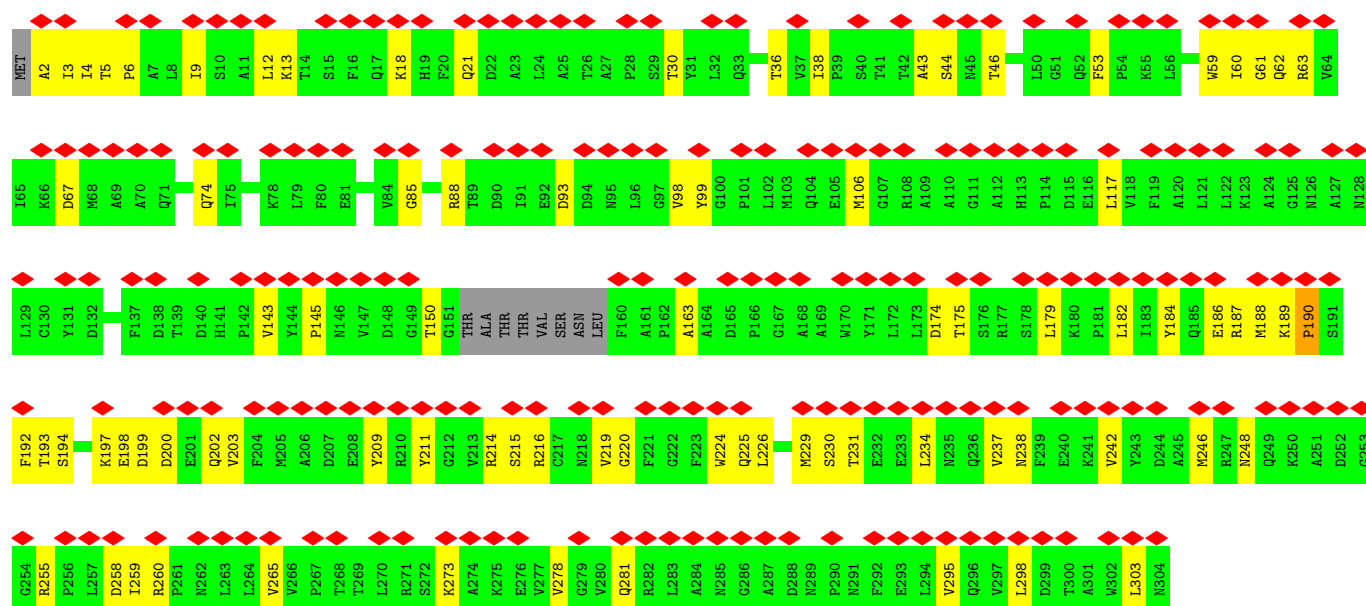


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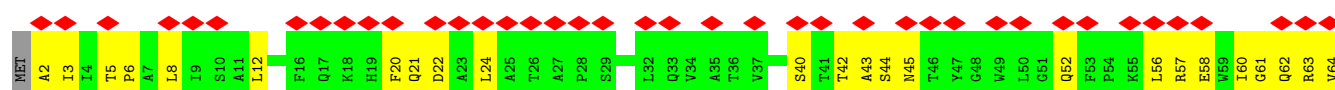


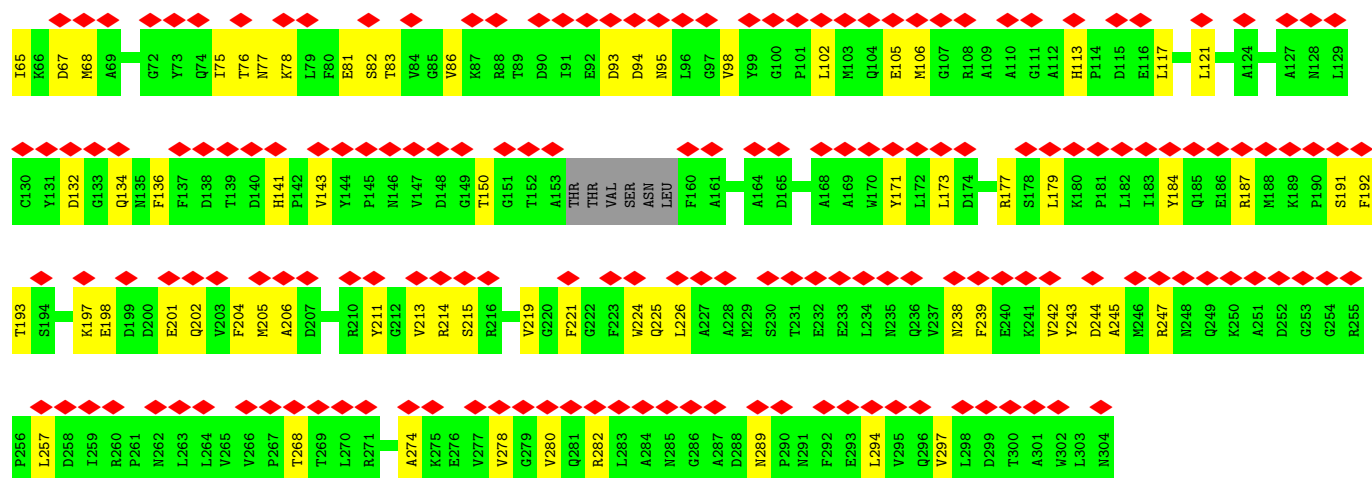


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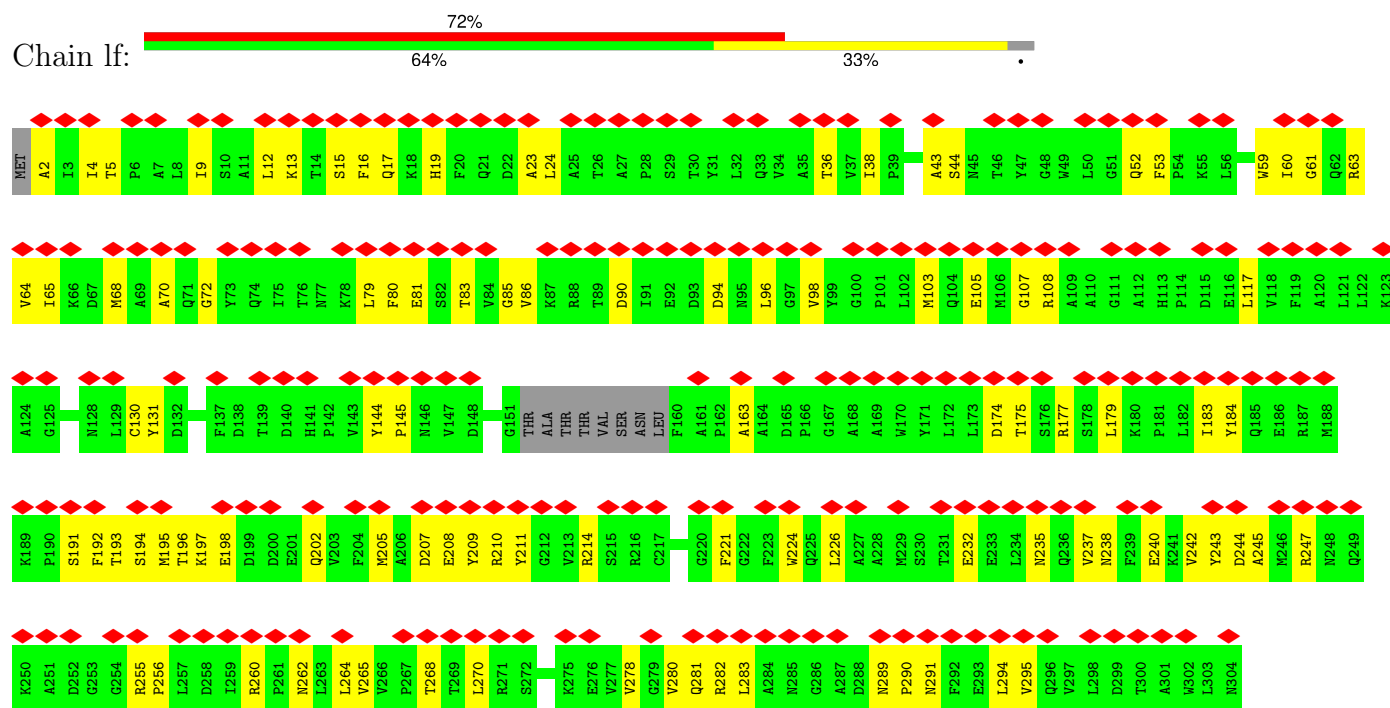


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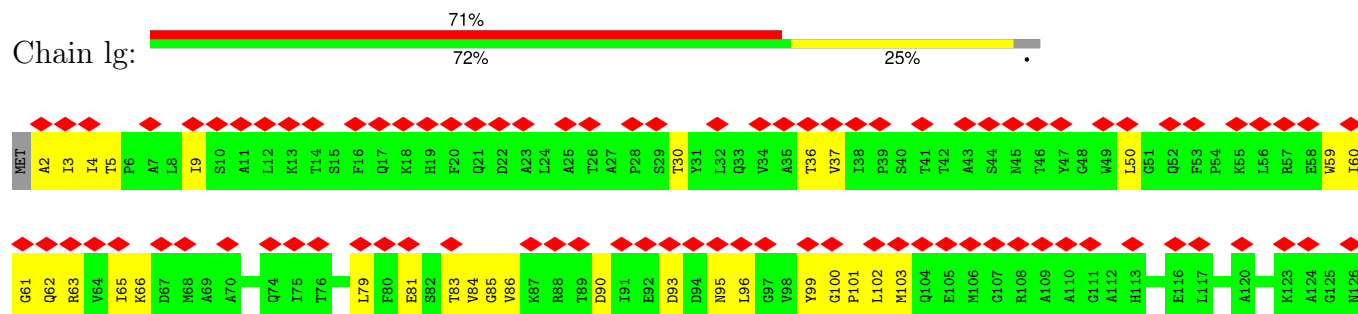


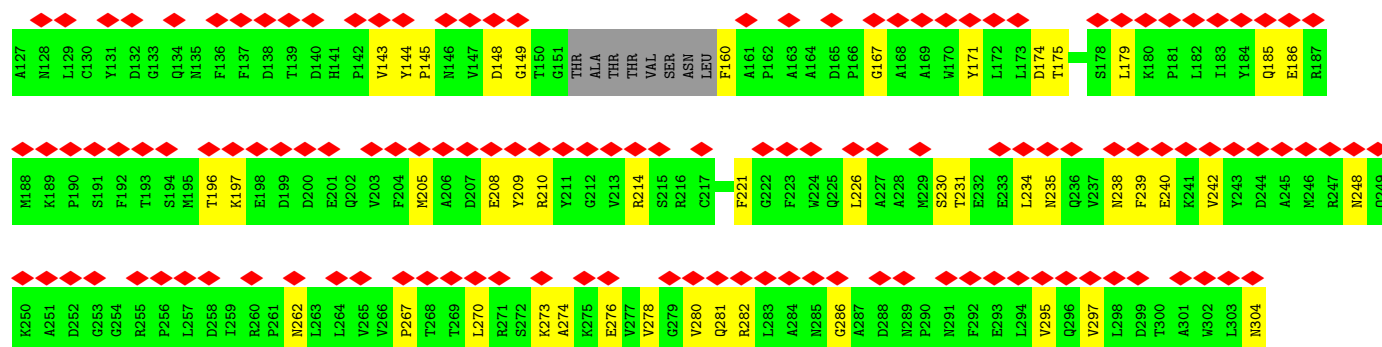


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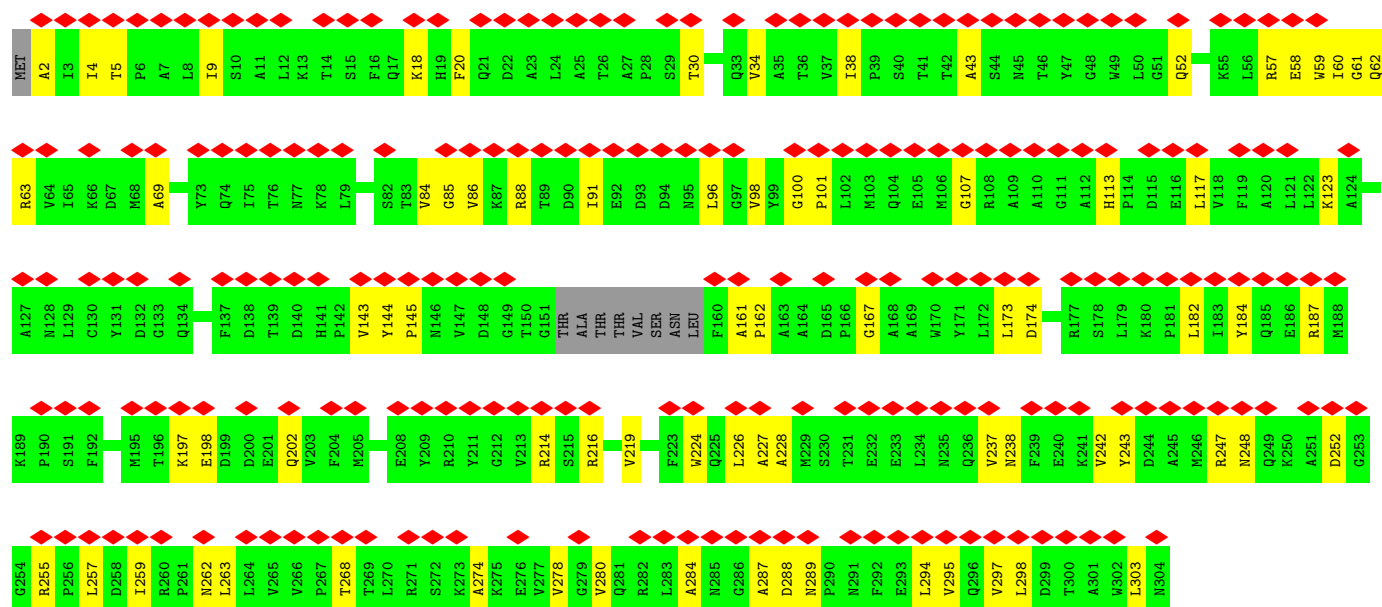


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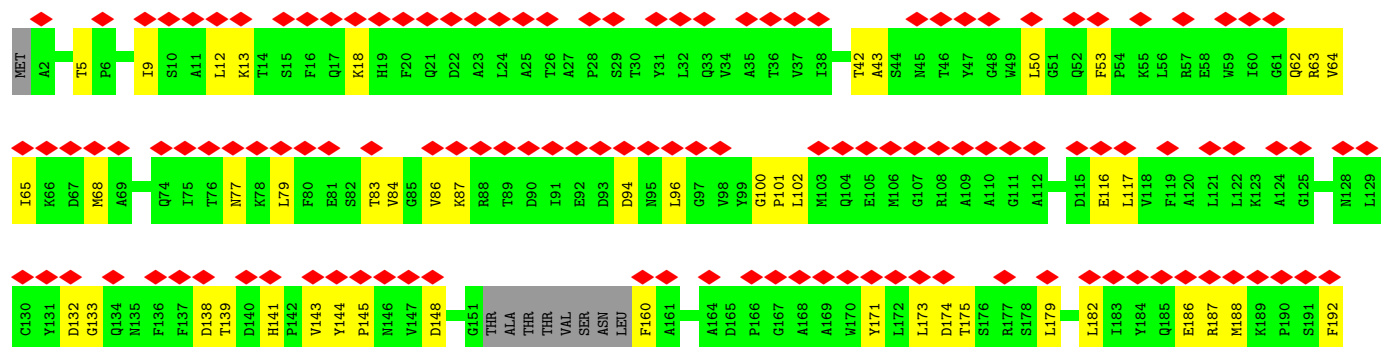


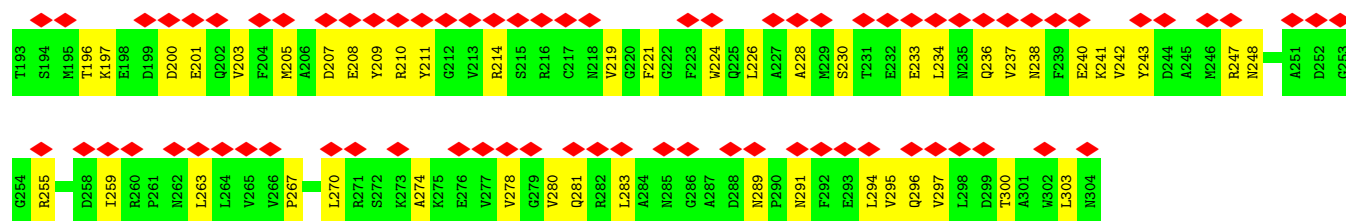


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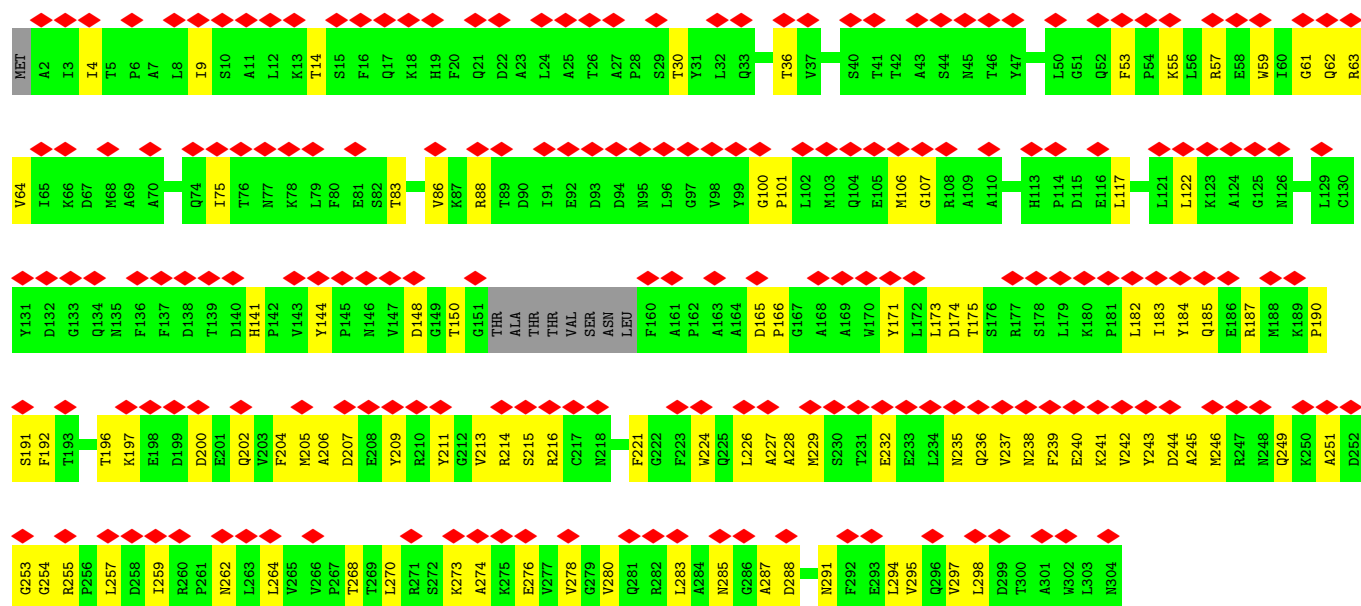


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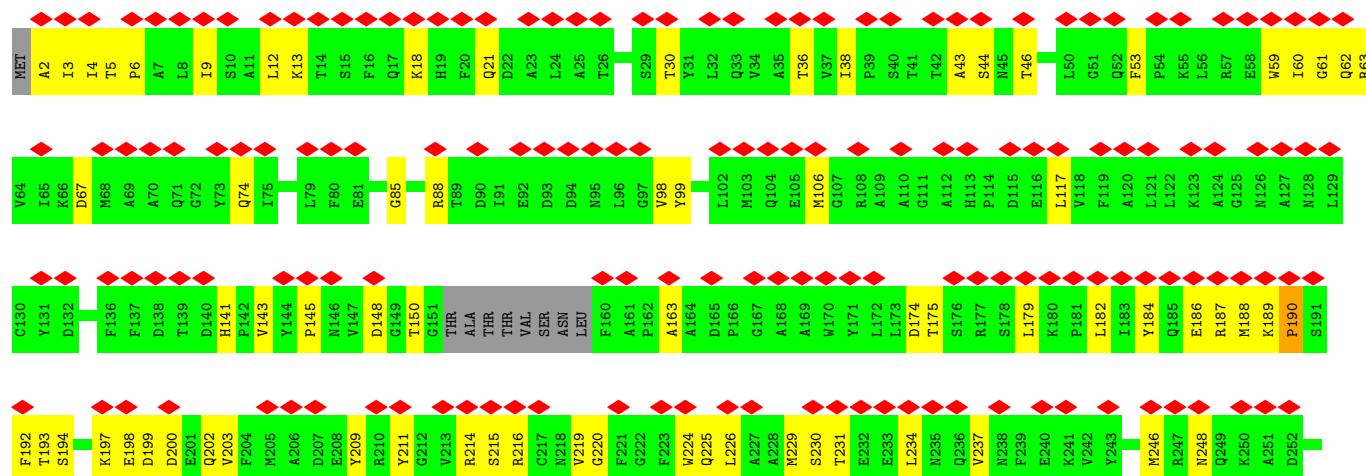


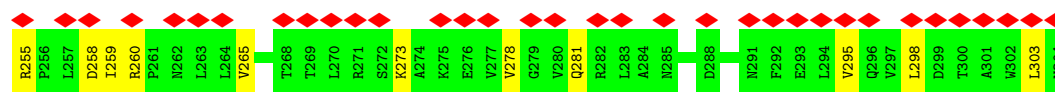


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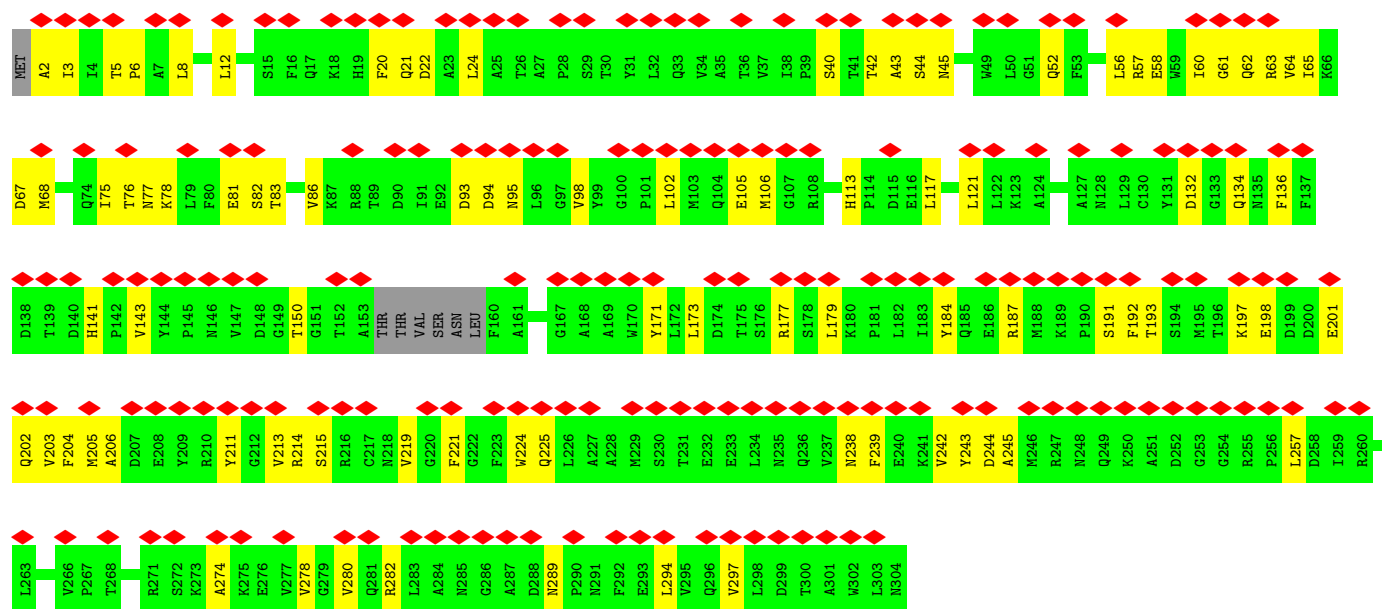


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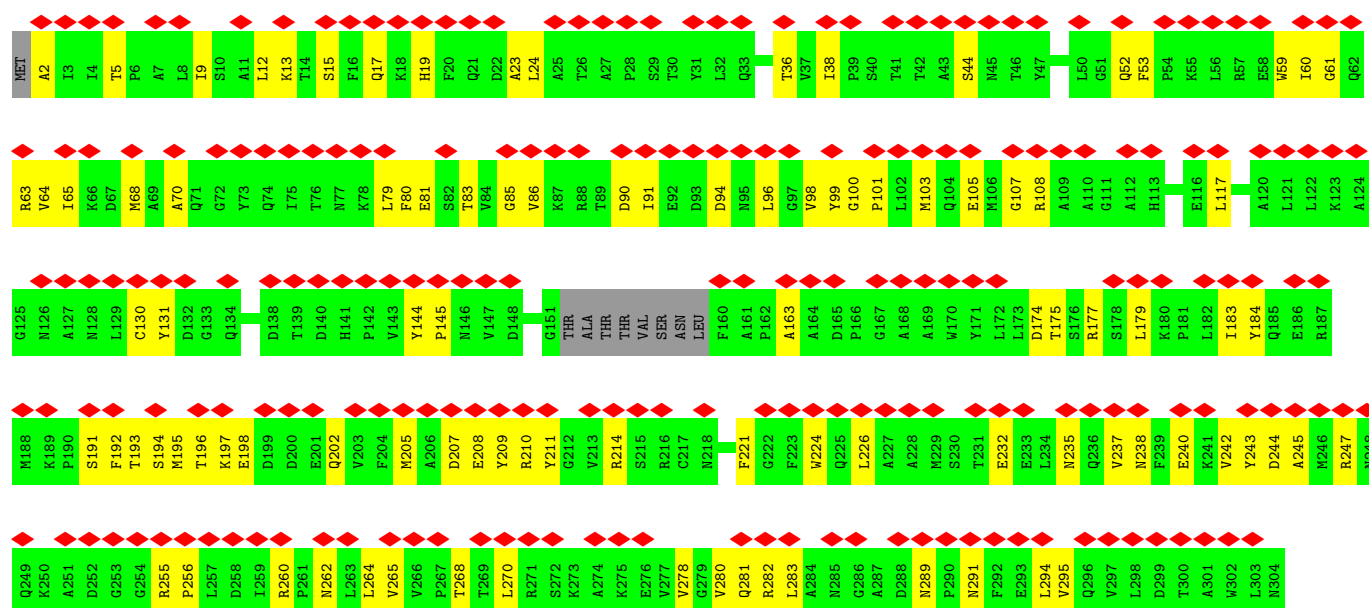




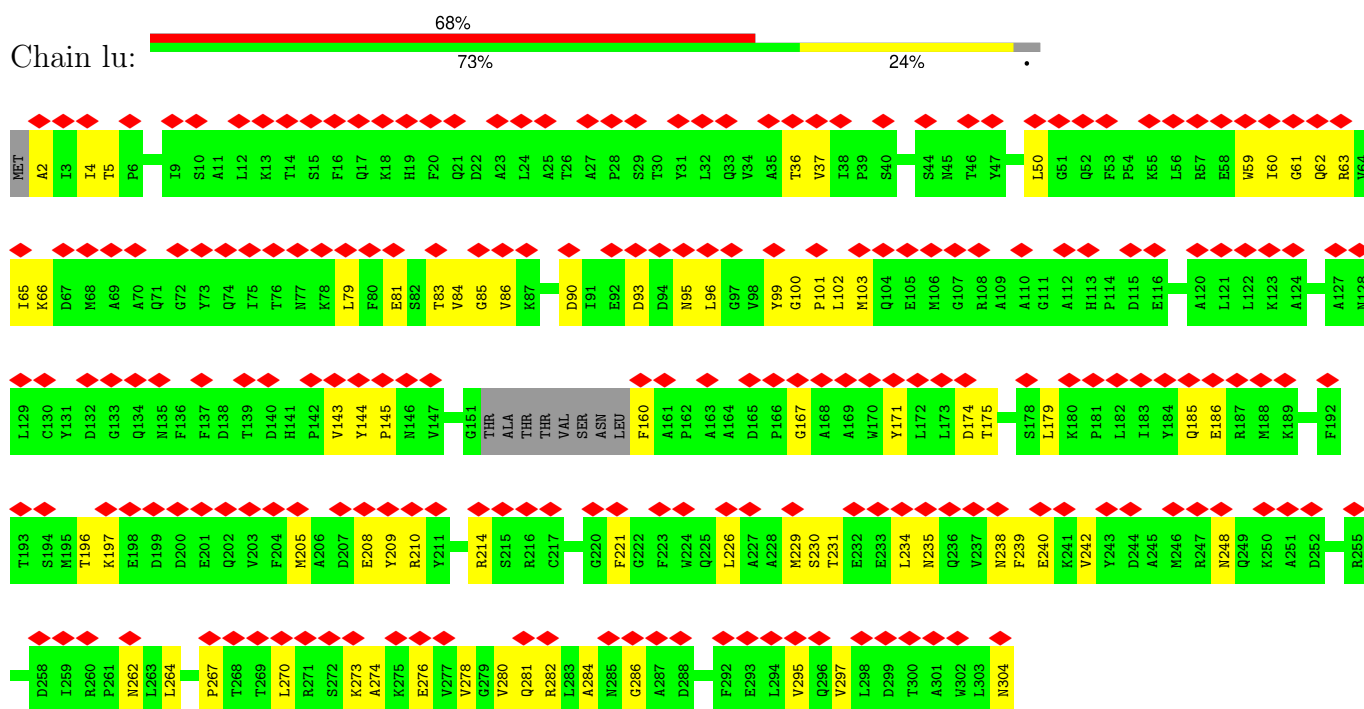
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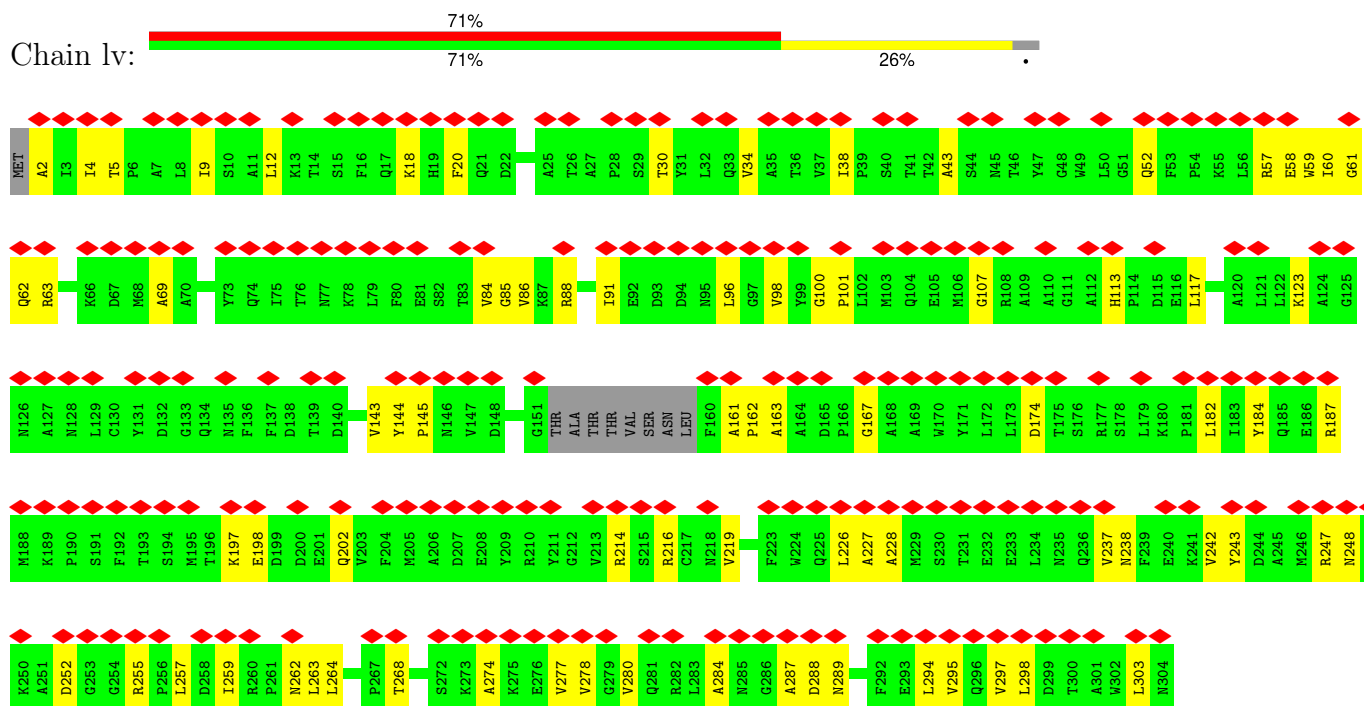
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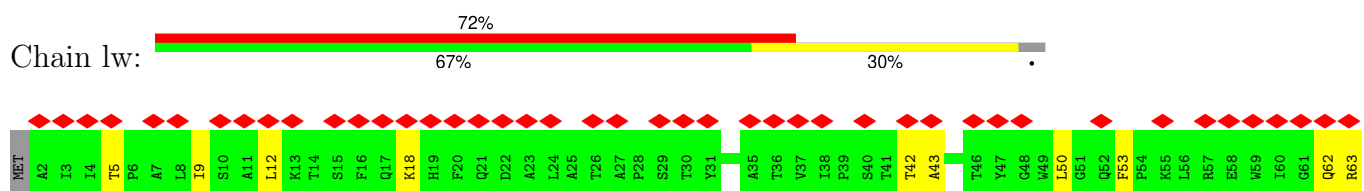
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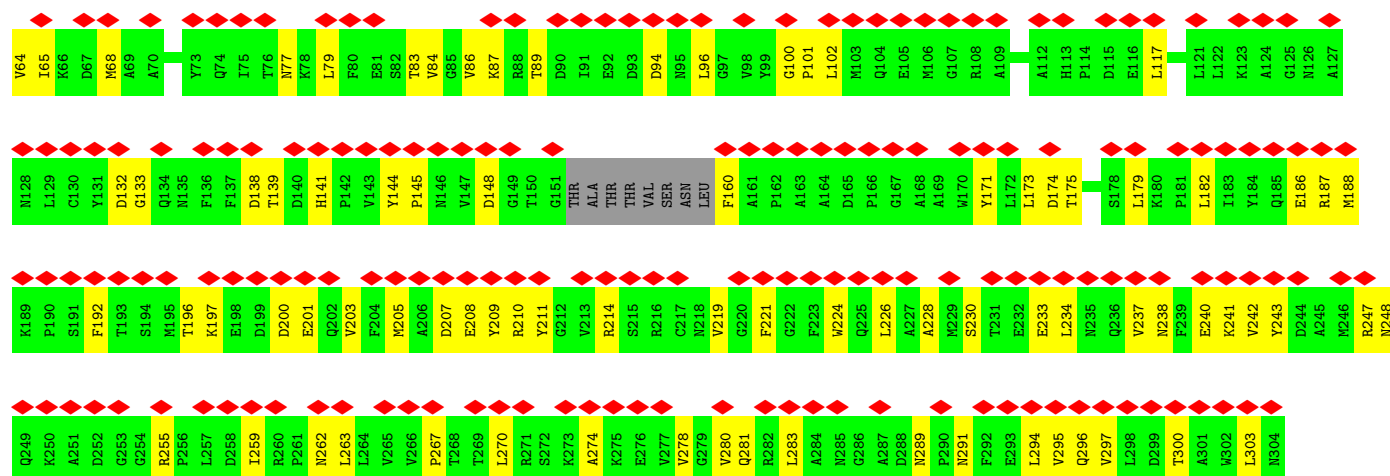


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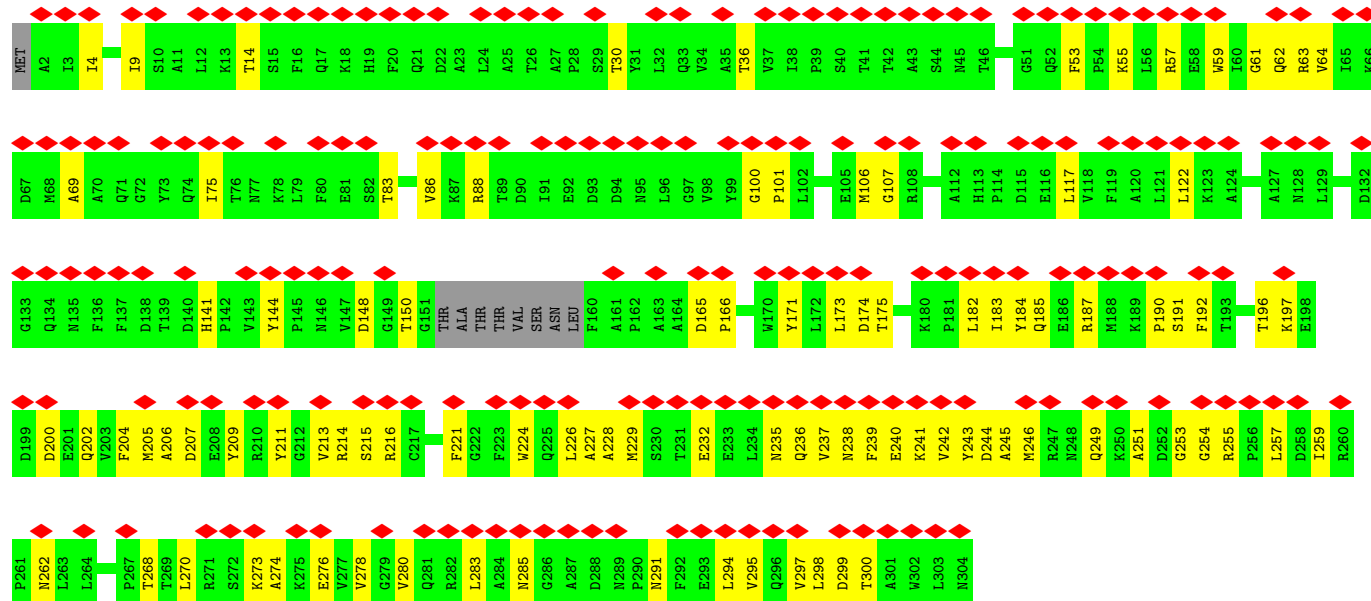


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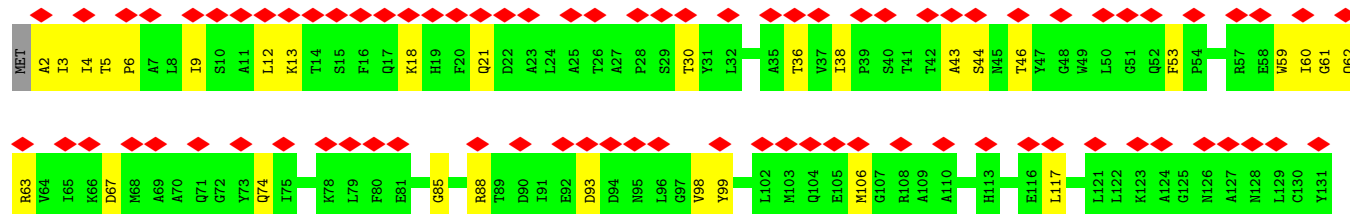


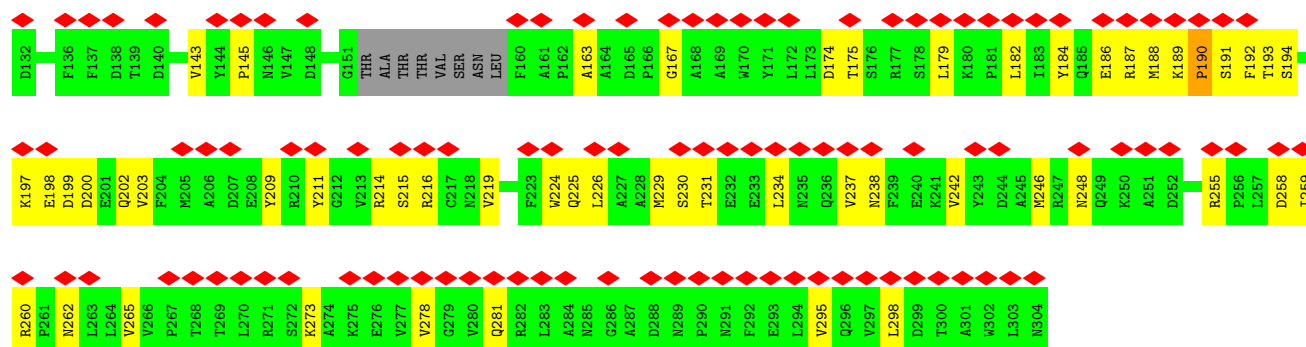


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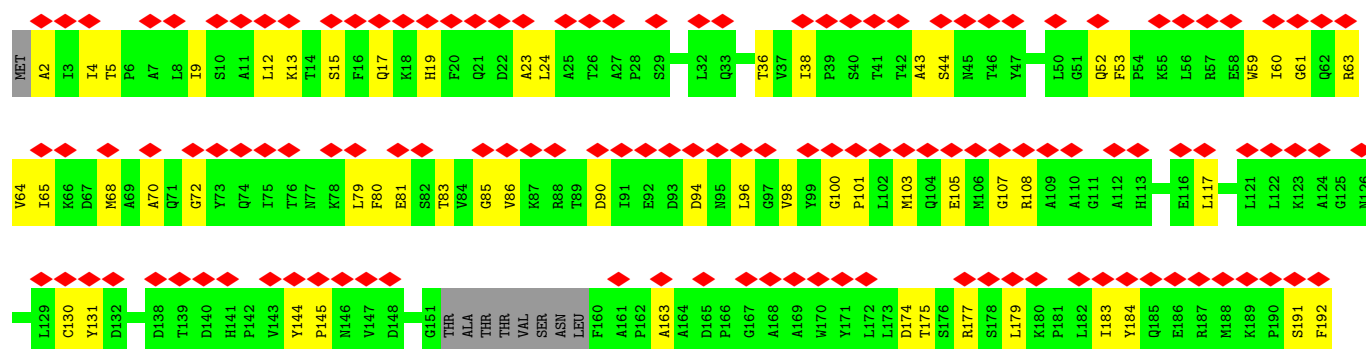


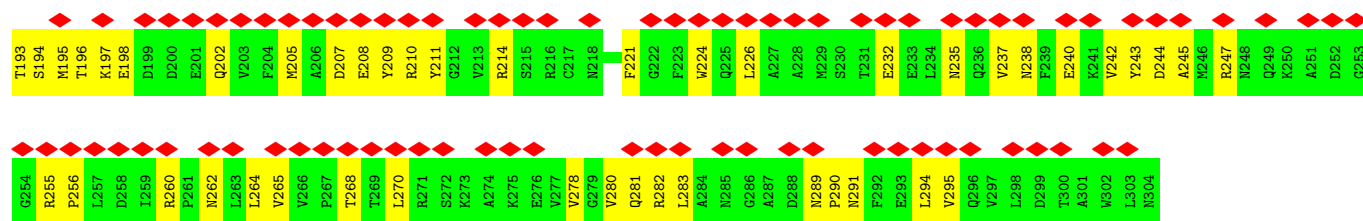


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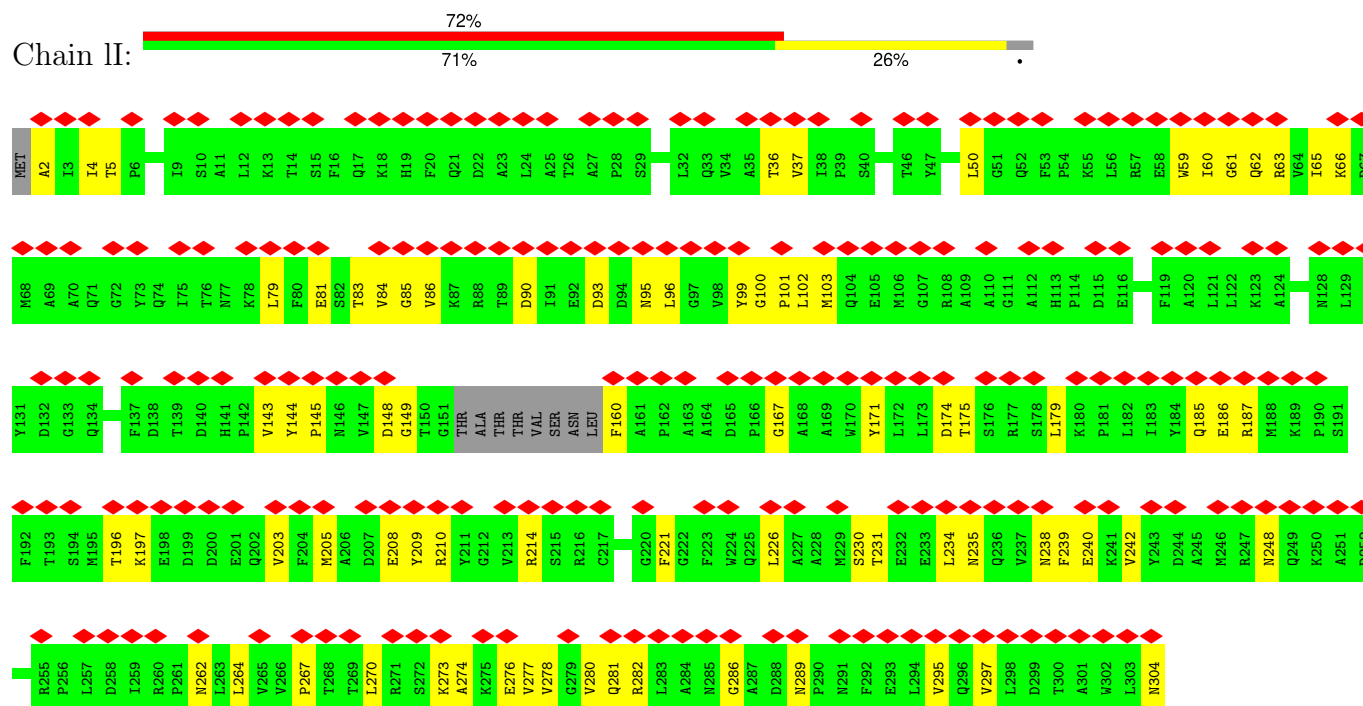


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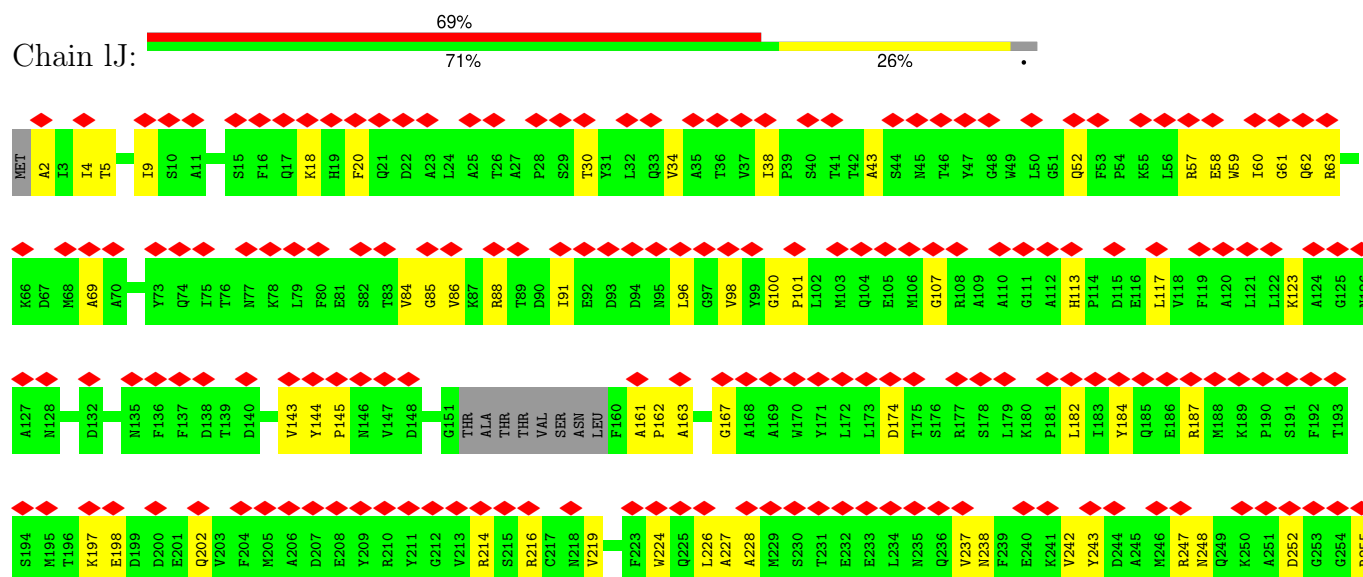


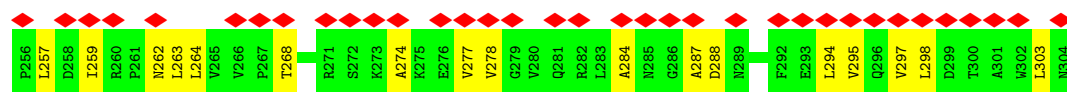


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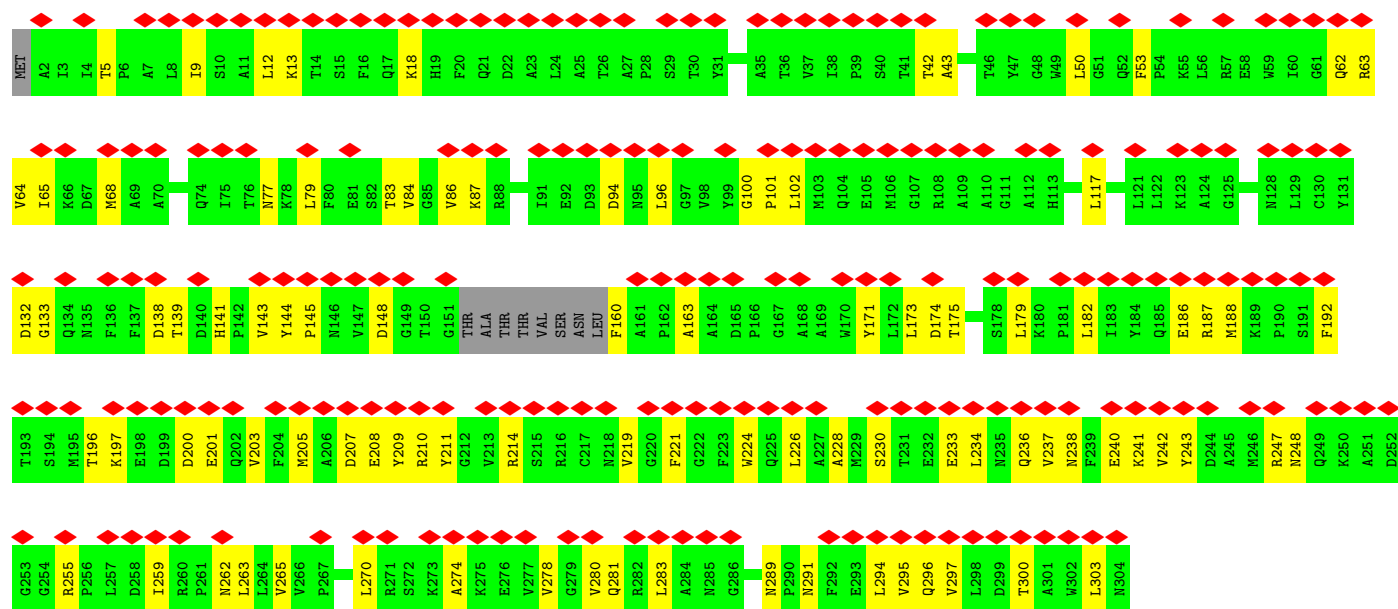


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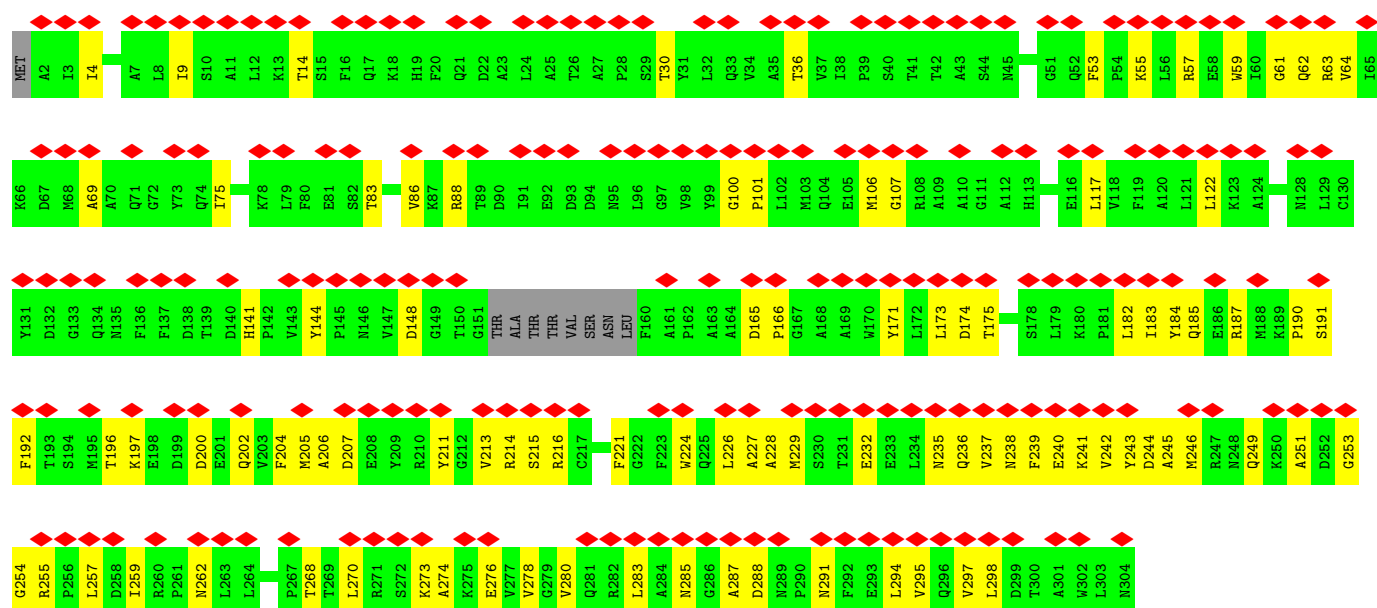




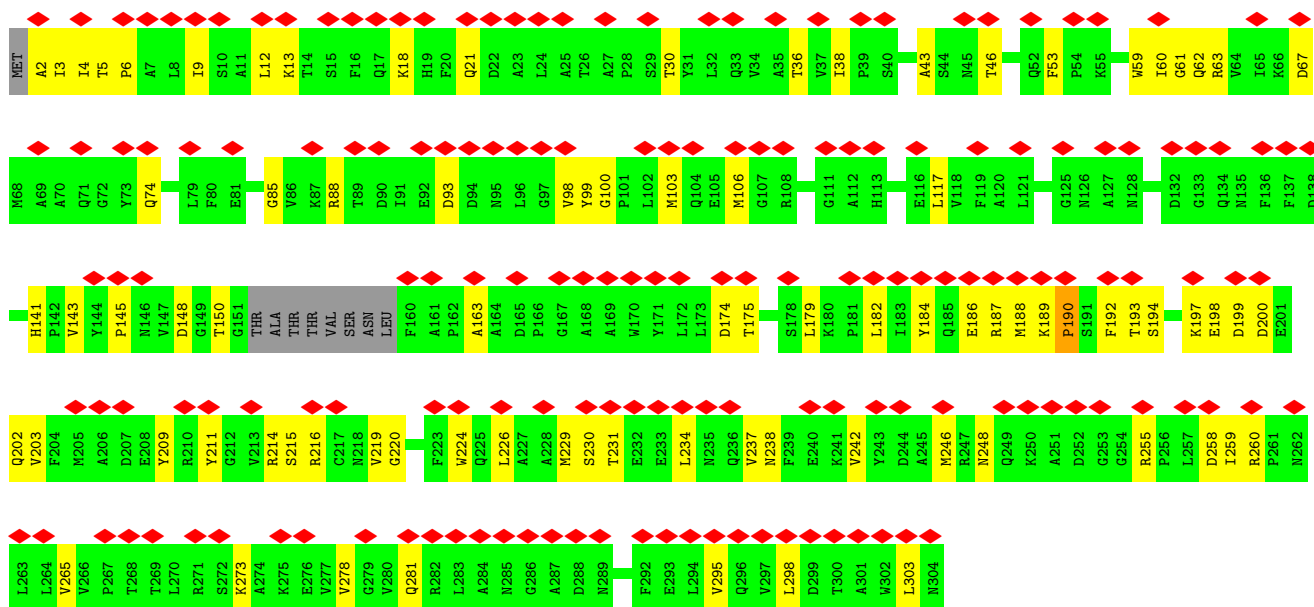
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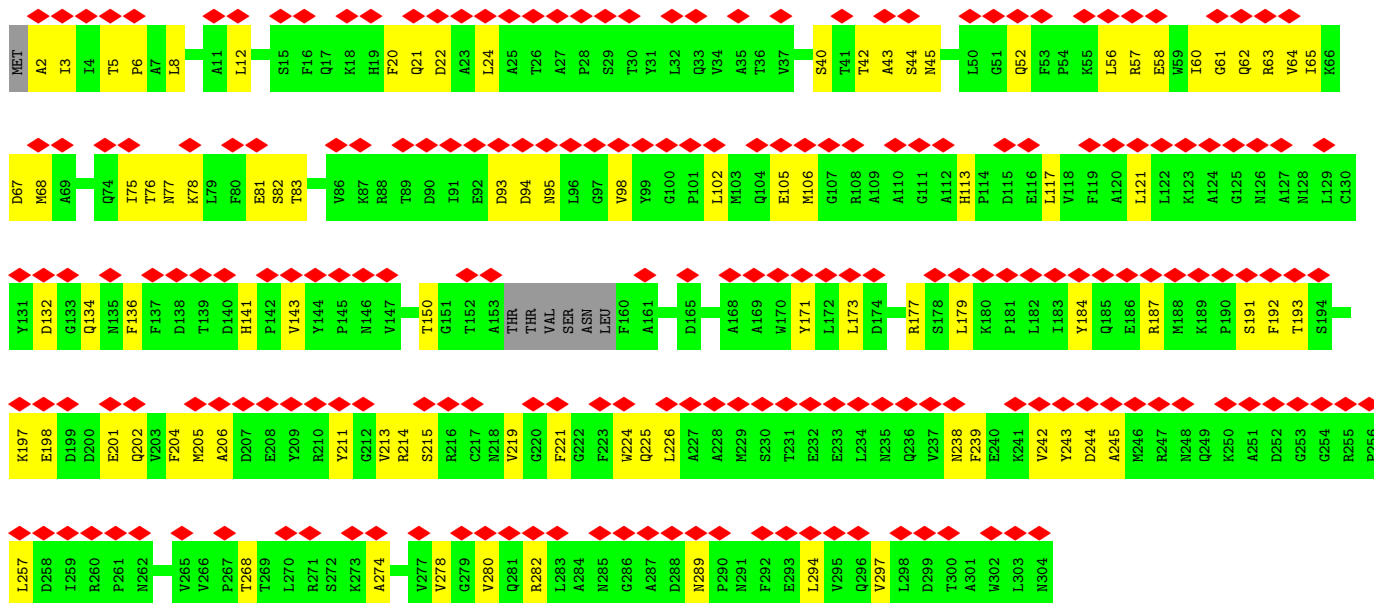
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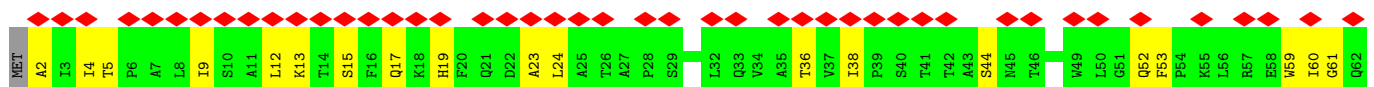
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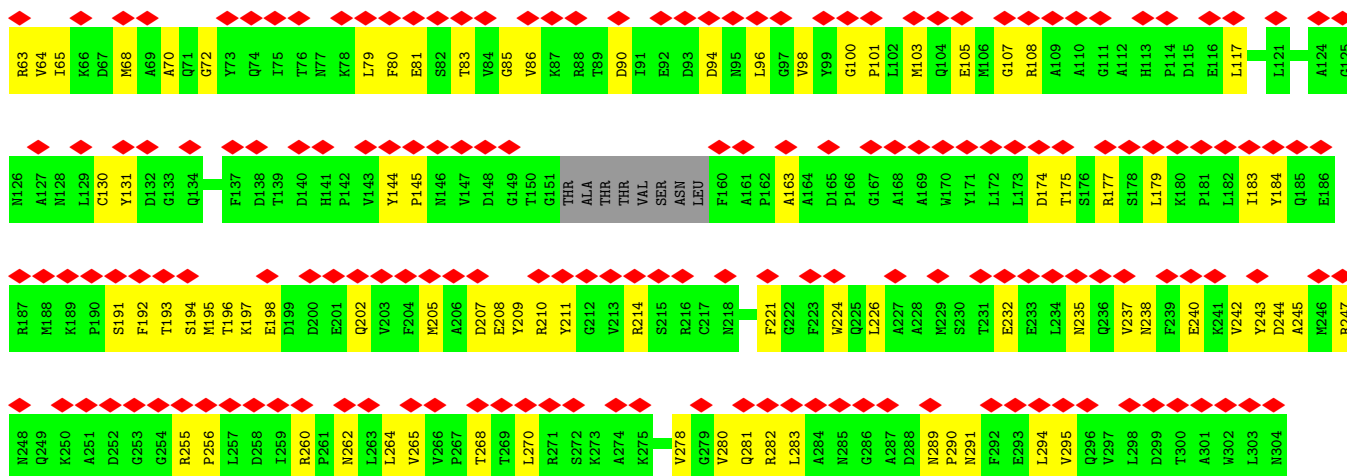


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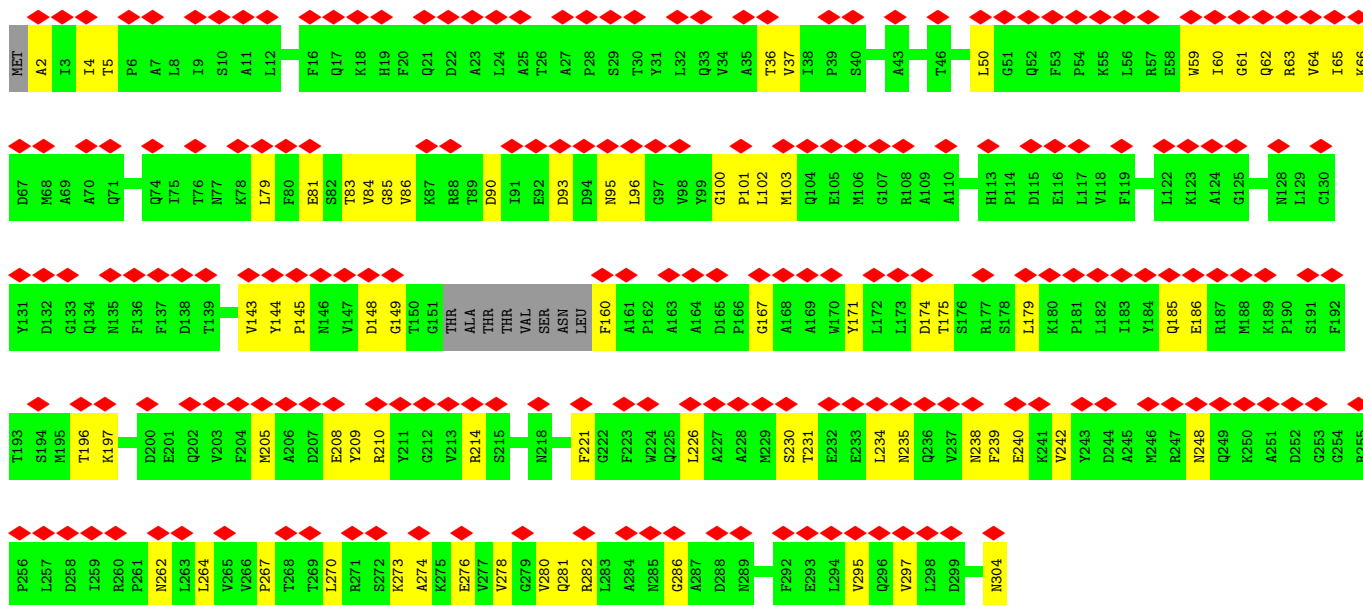
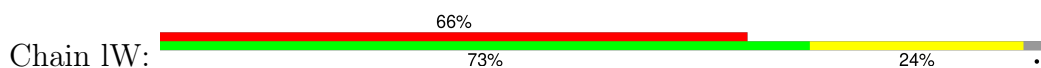


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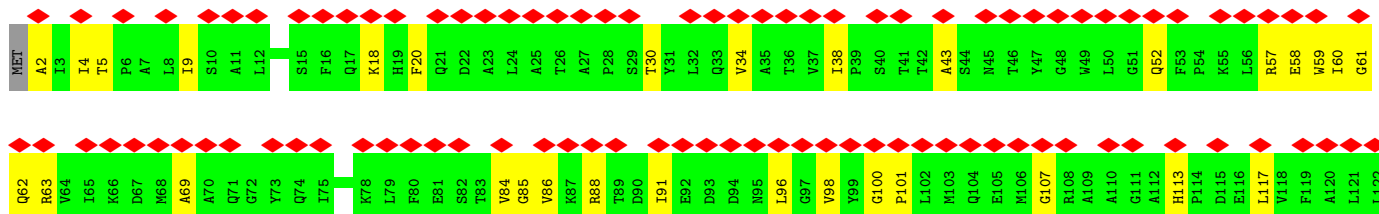
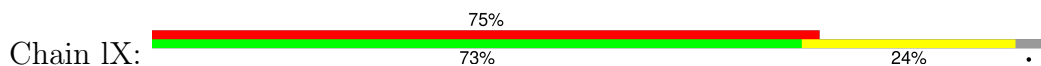




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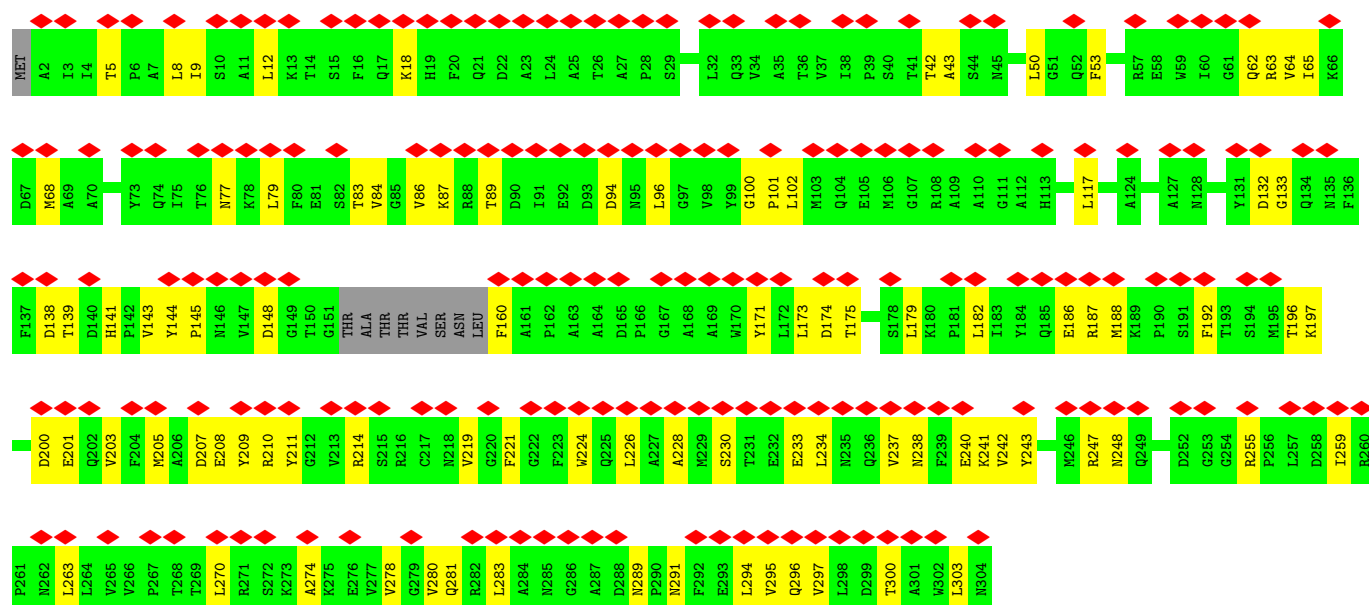
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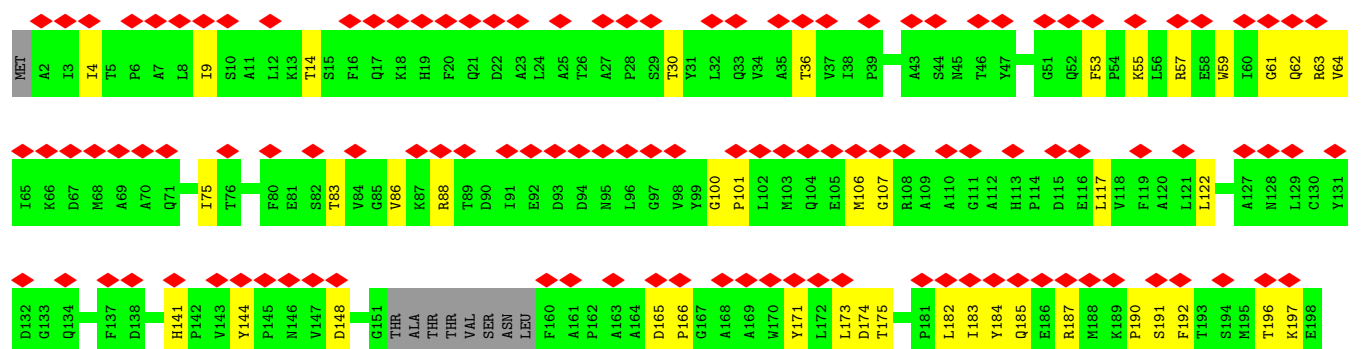
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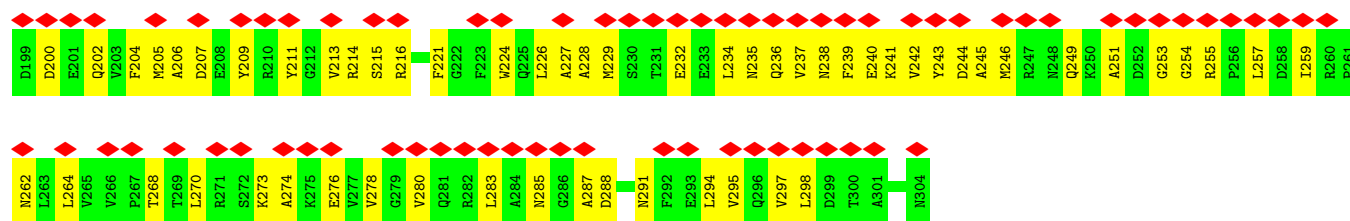
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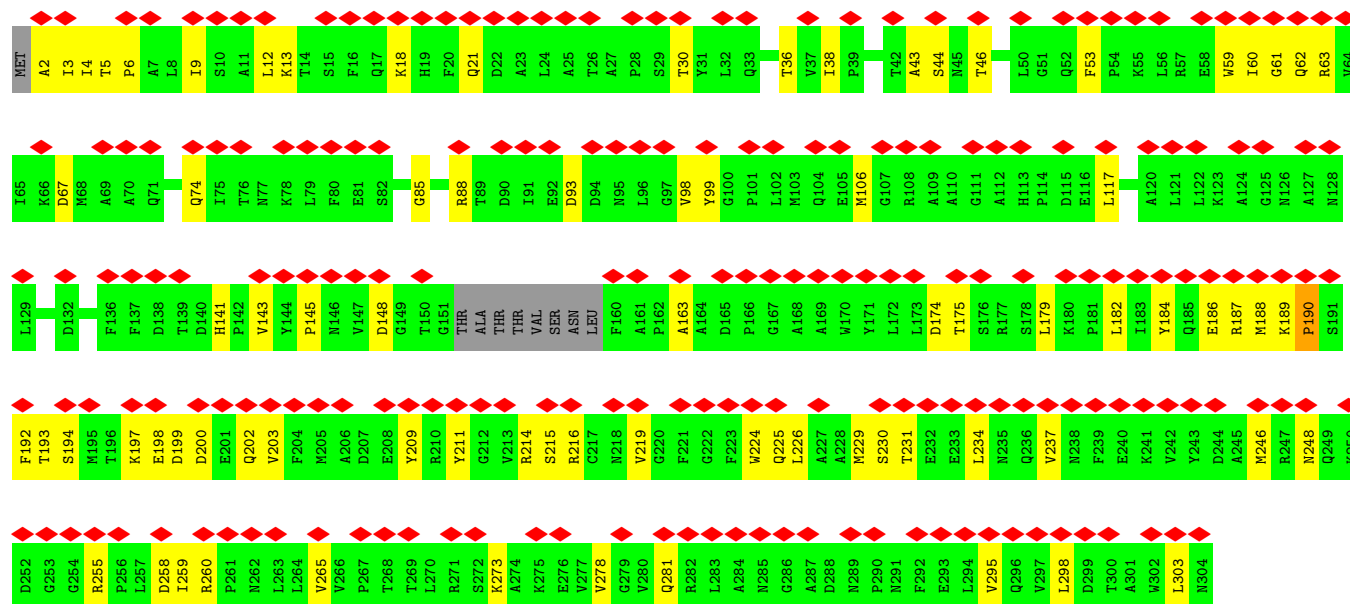
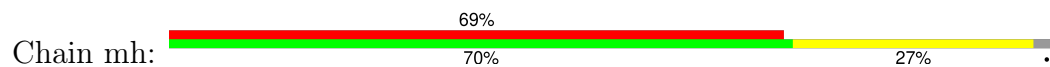
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Chain IZ: 63% 64% 33%

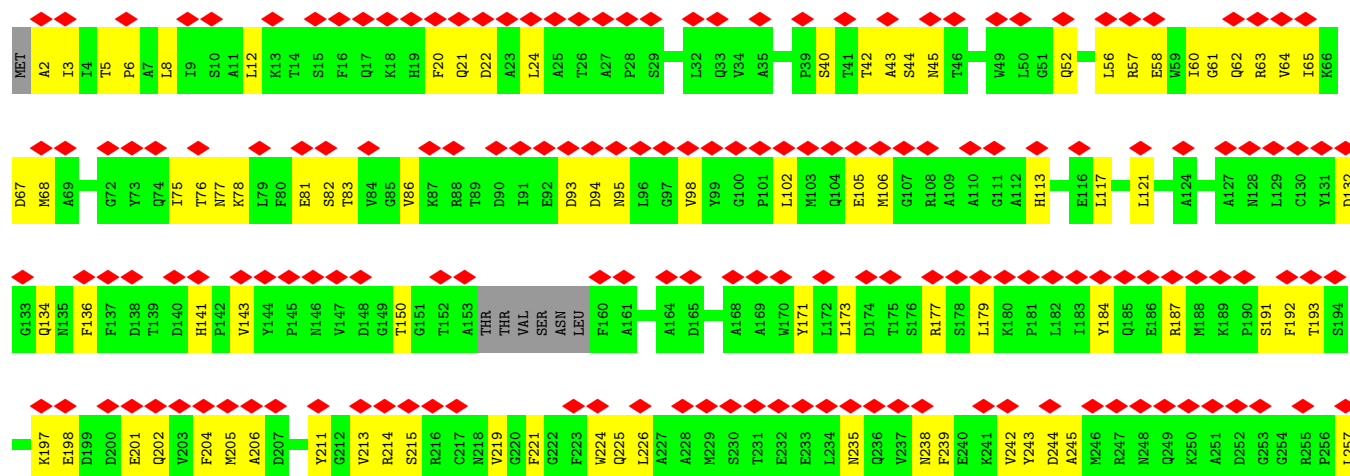


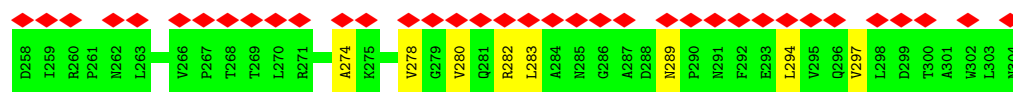


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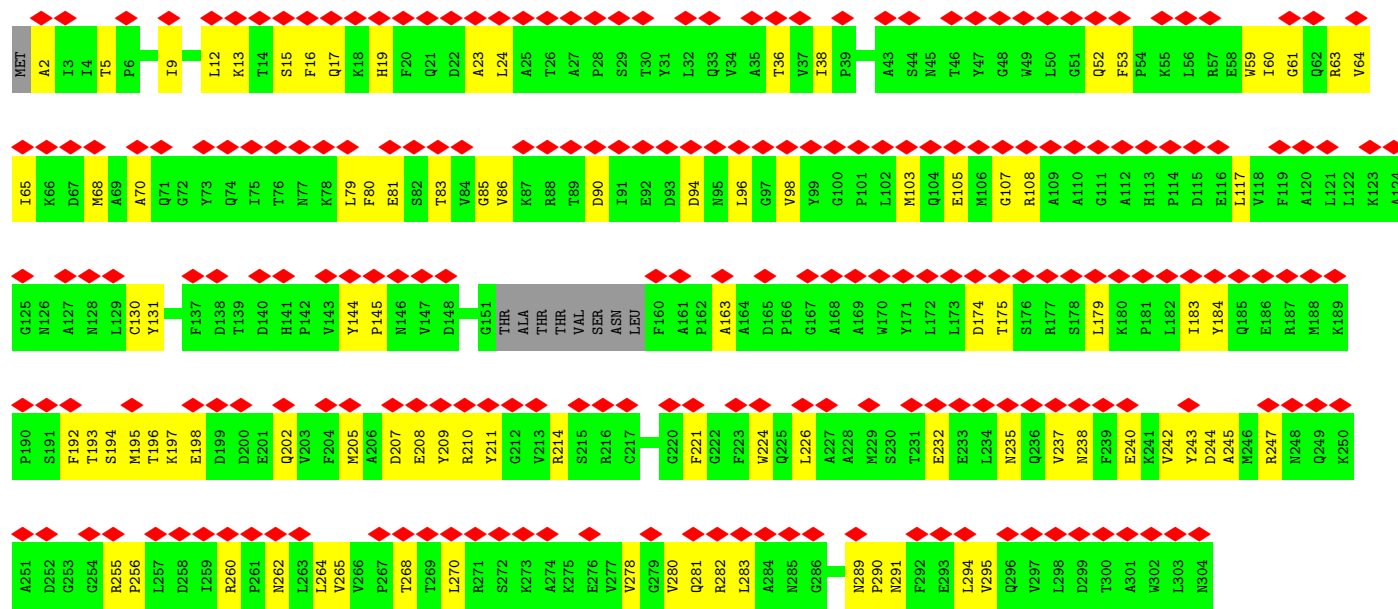
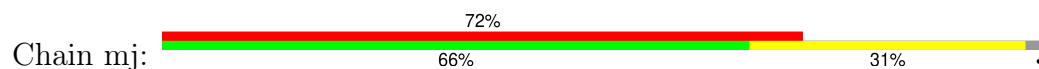


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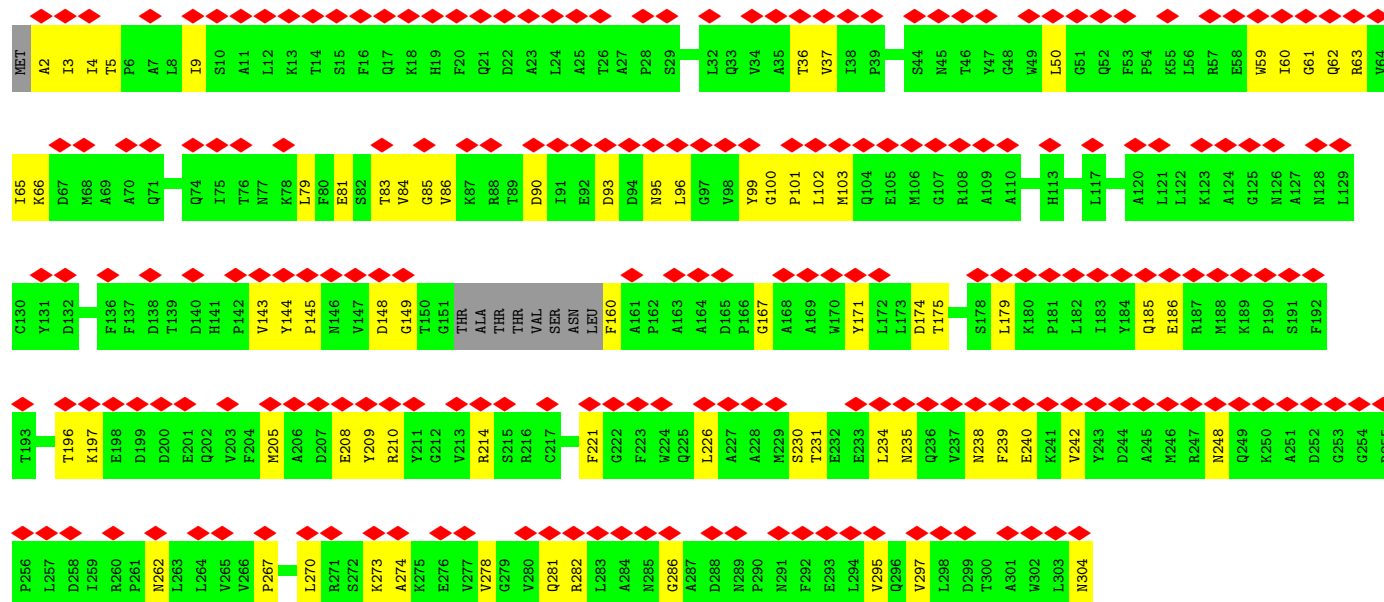
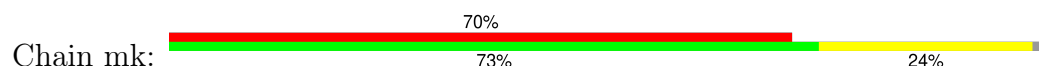




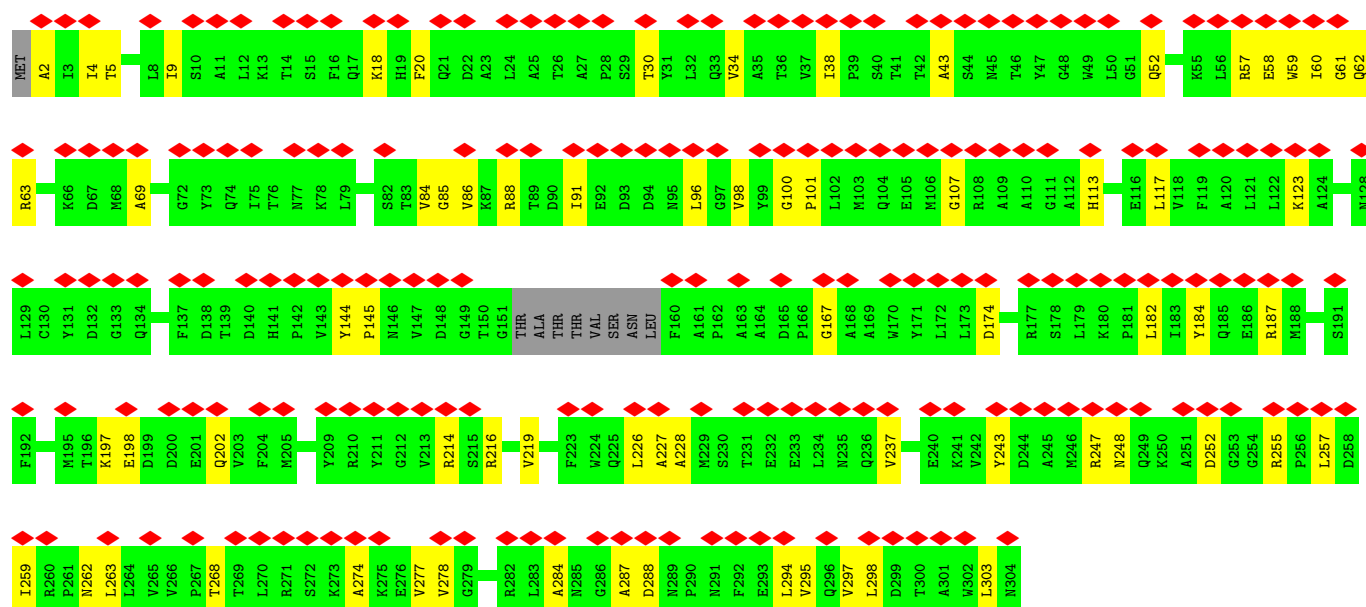
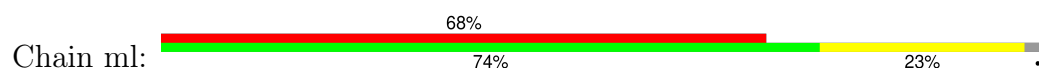
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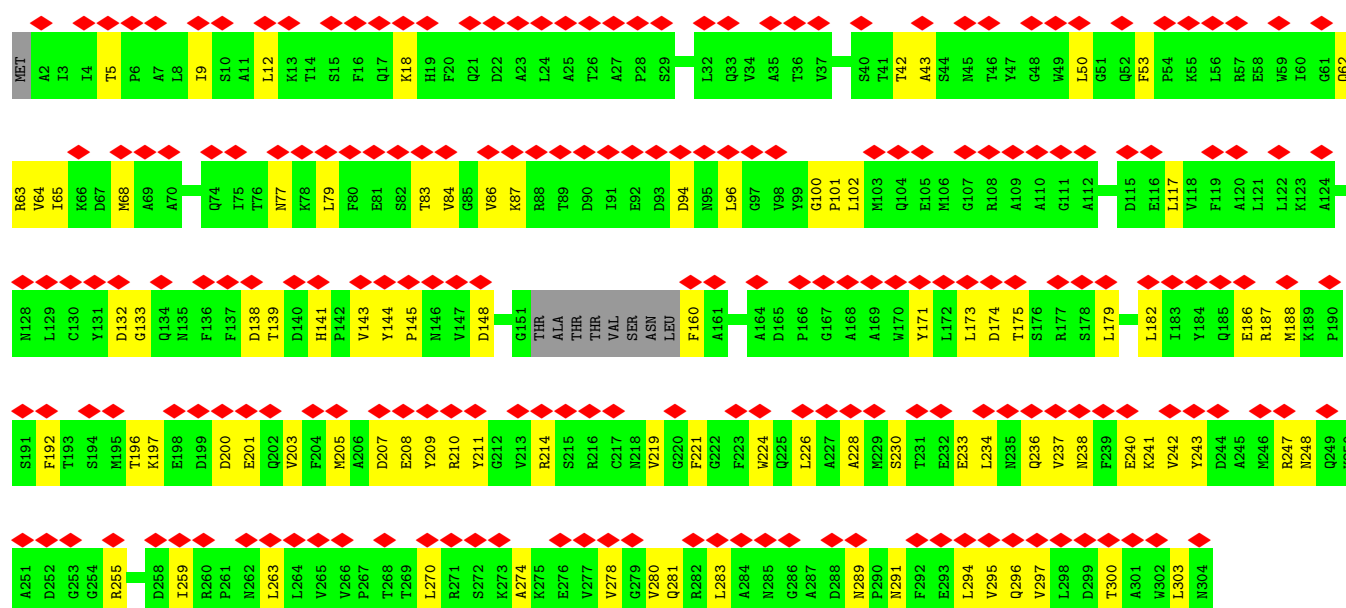
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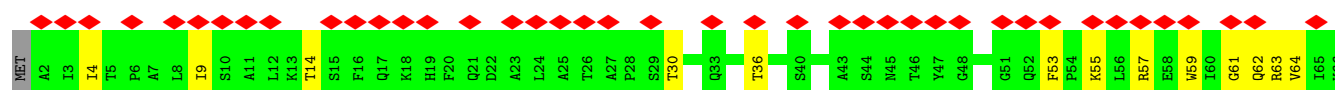
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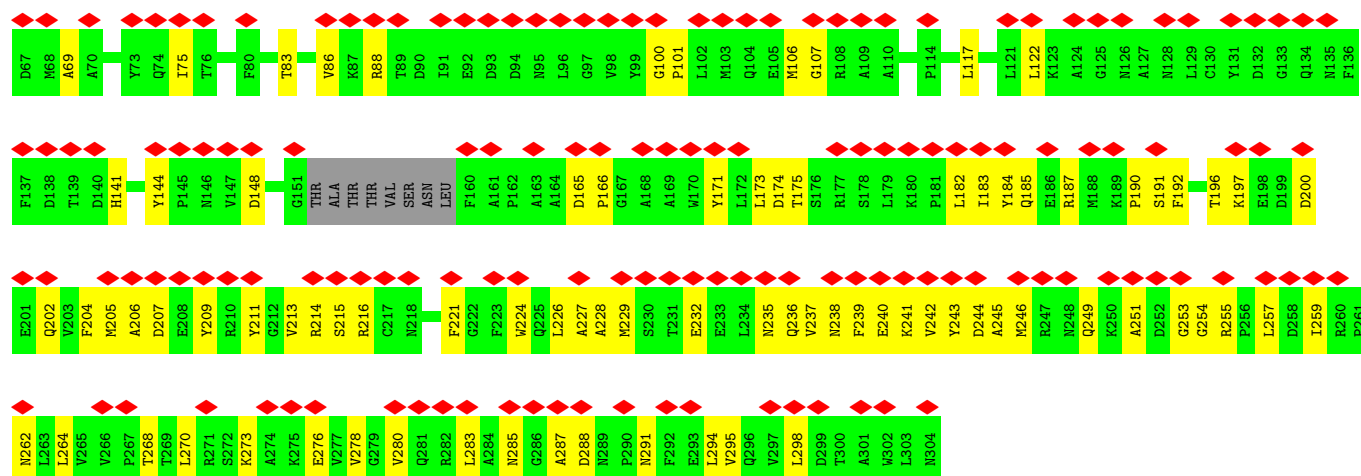


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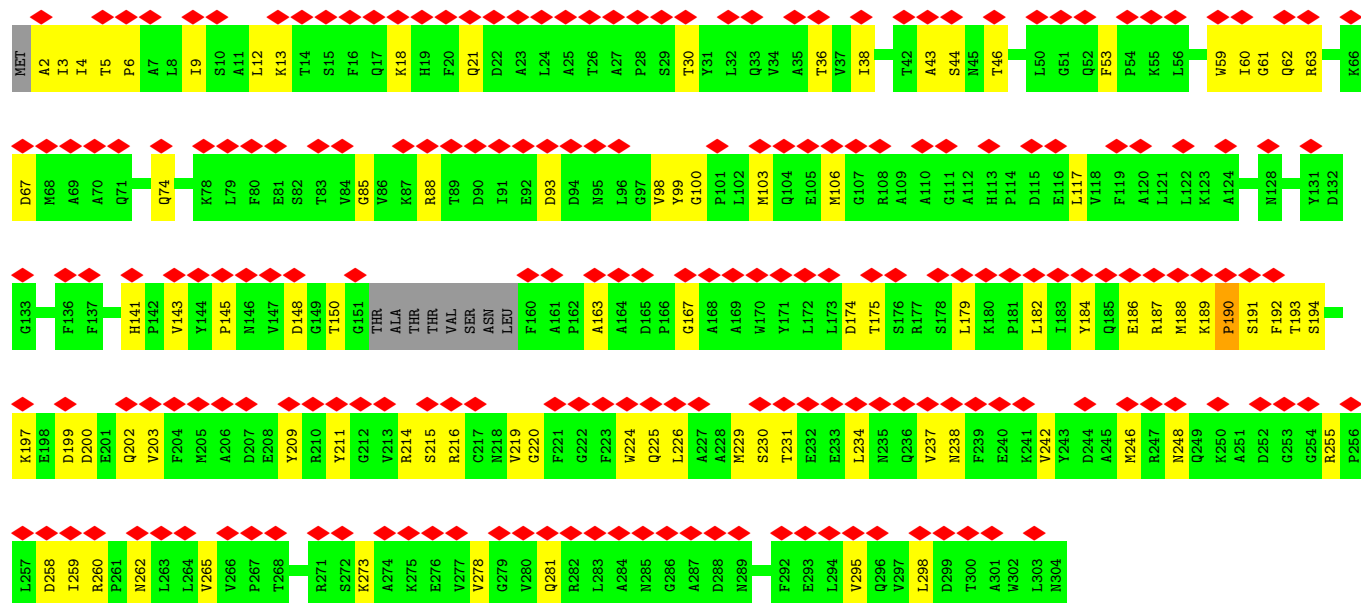


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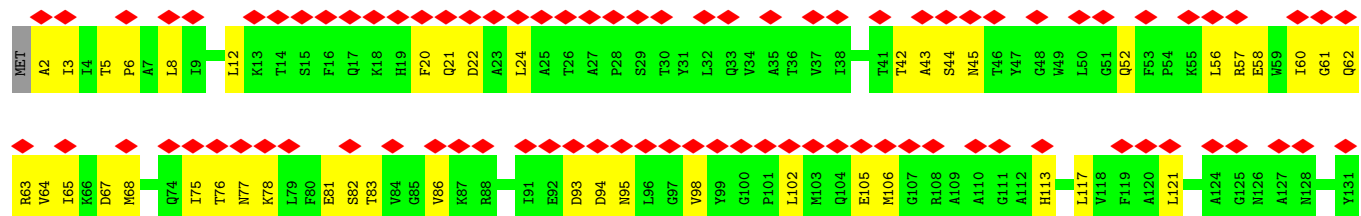


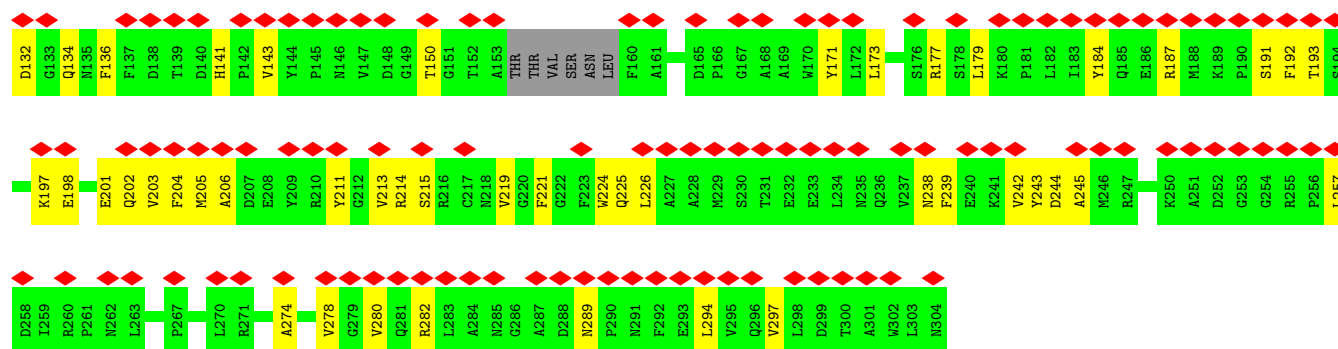


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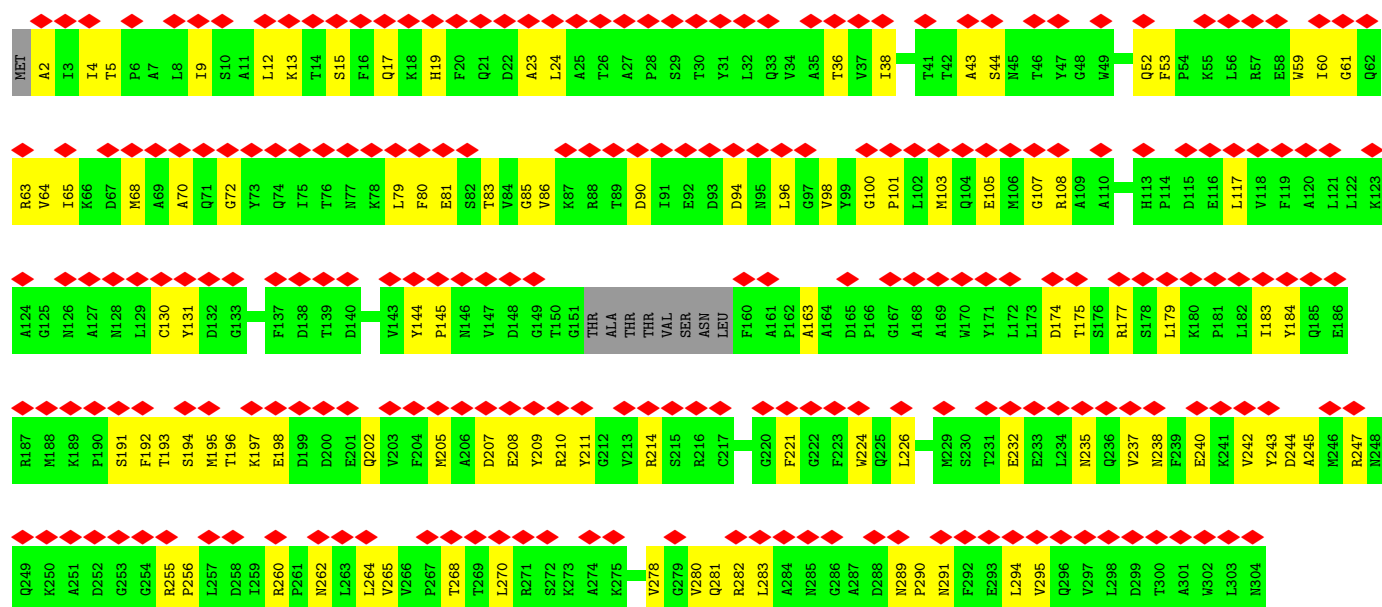
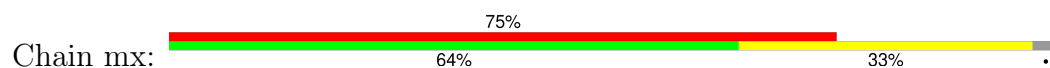


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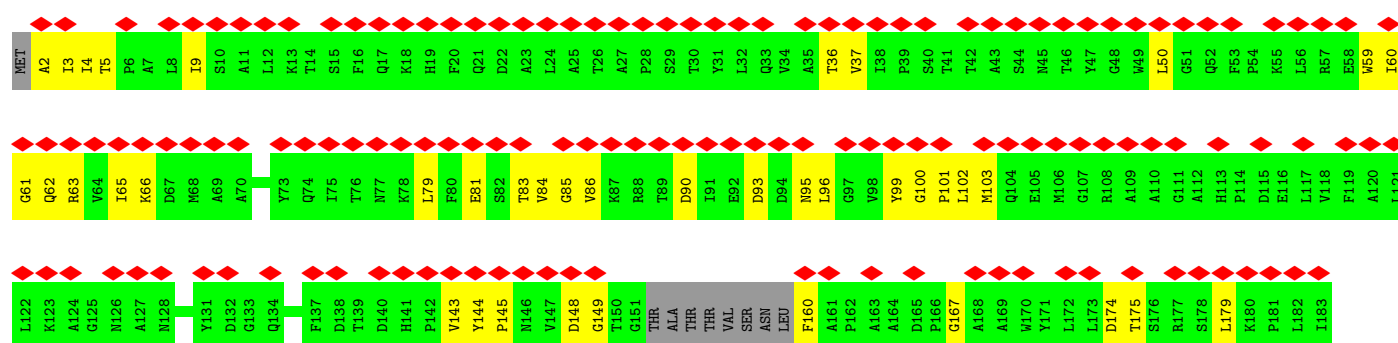
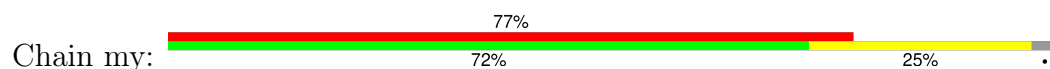




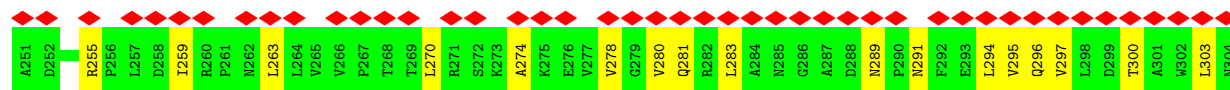
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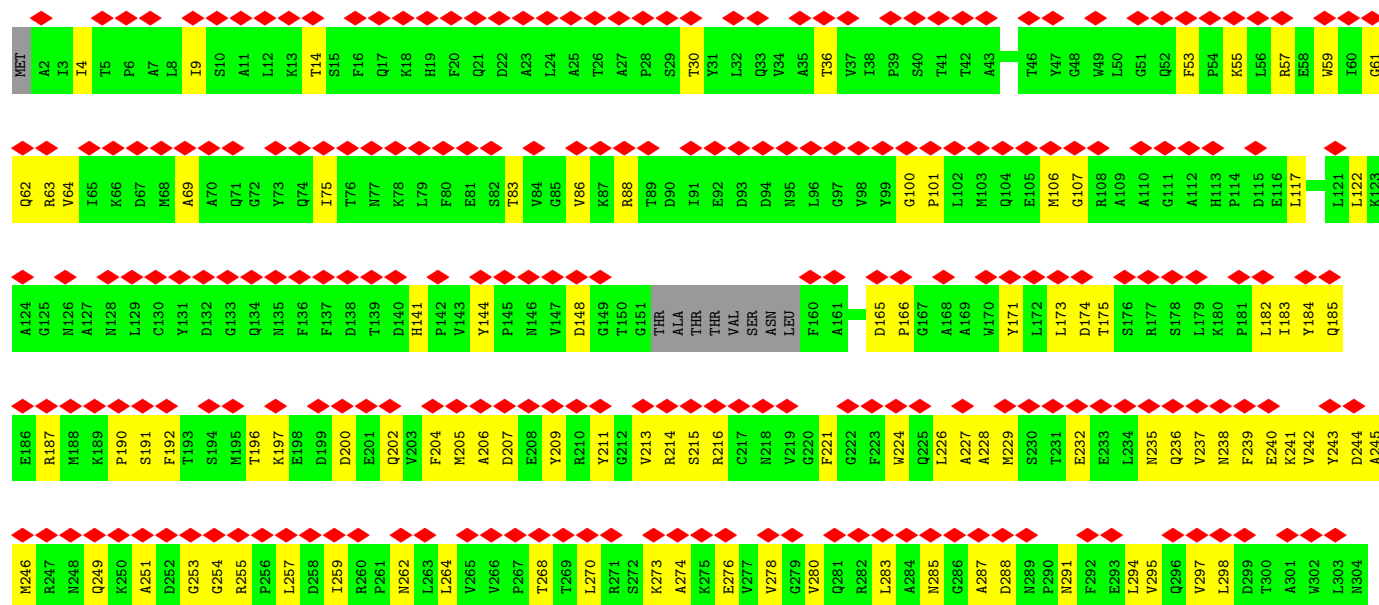
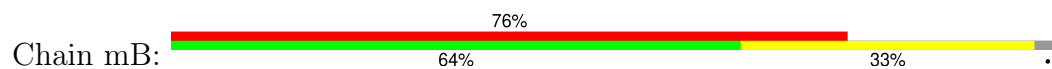
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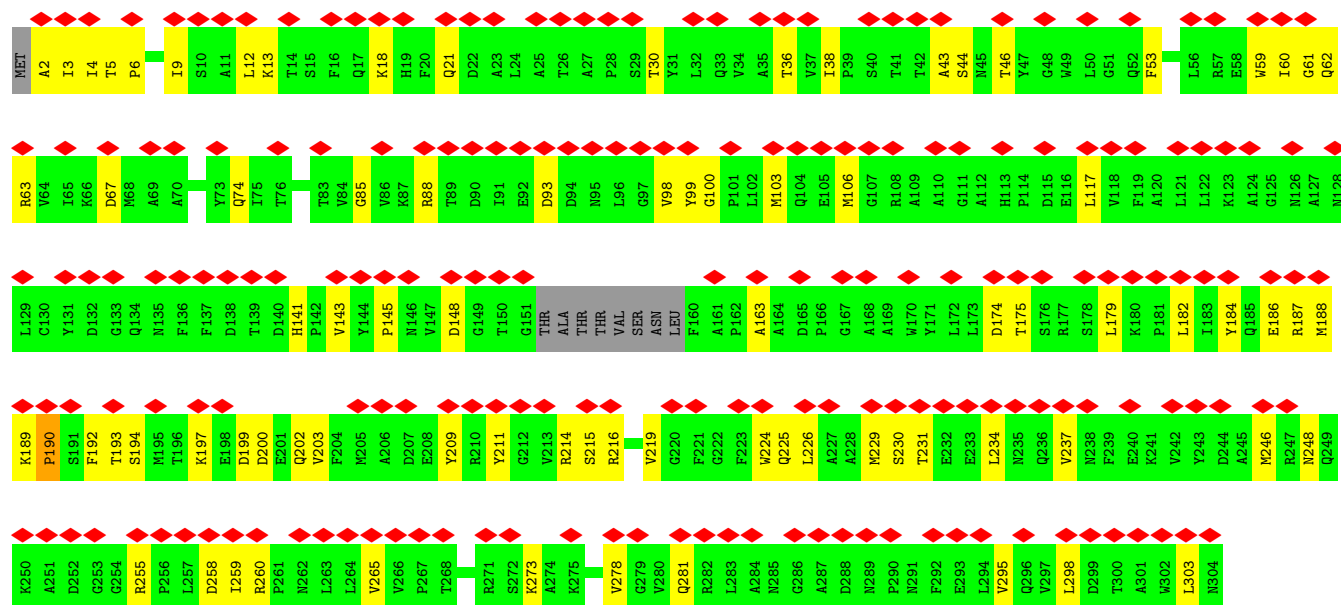




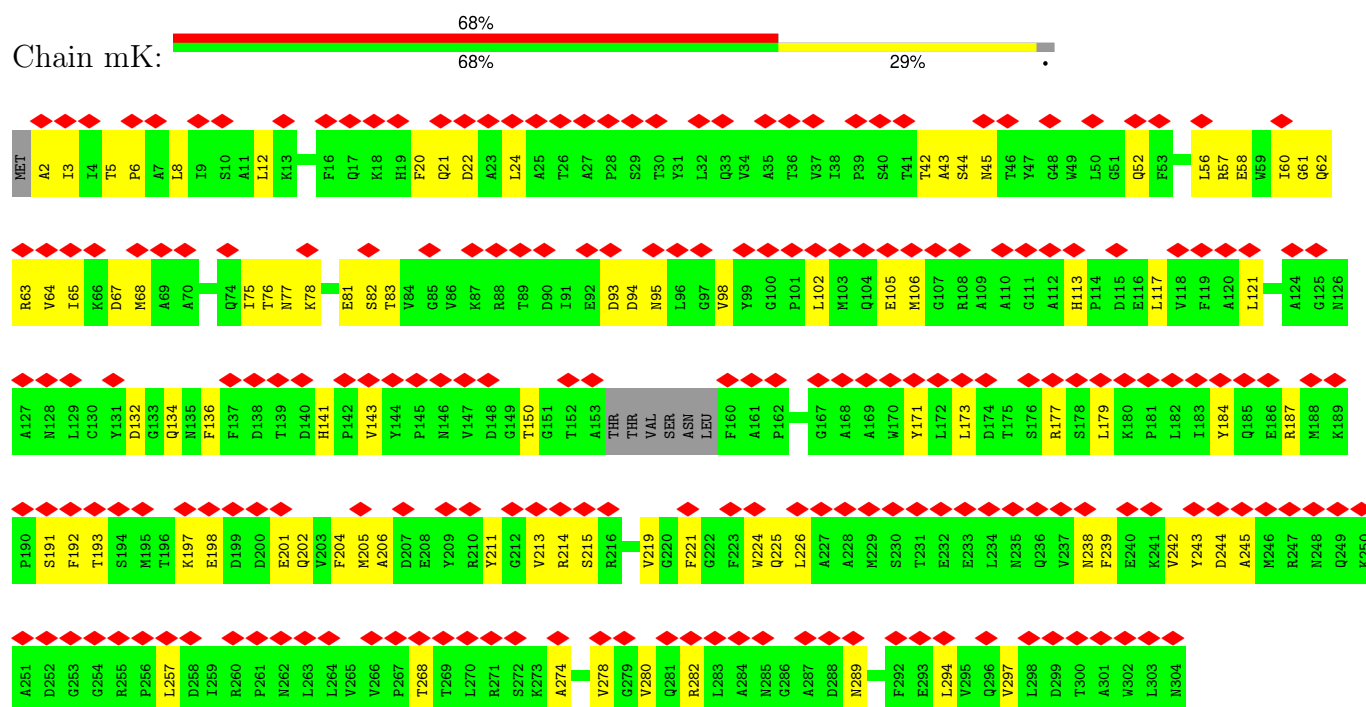
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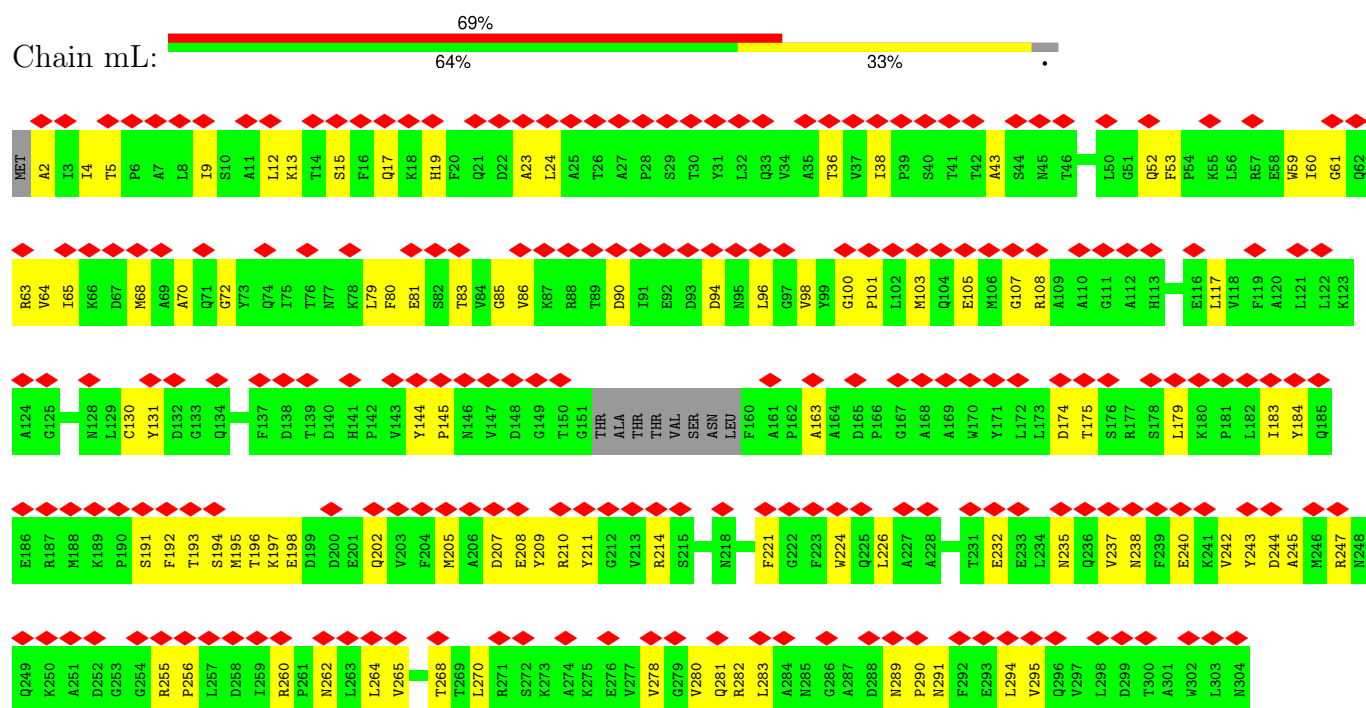
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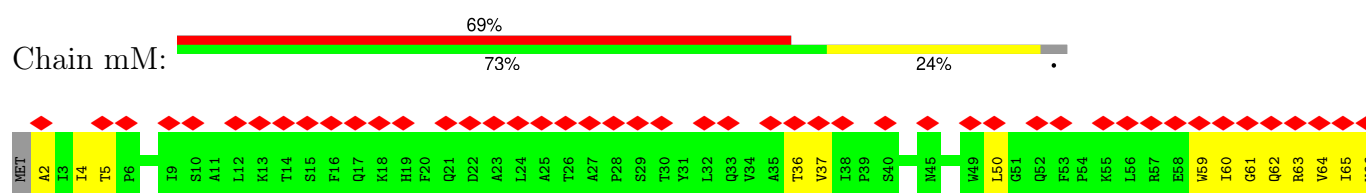
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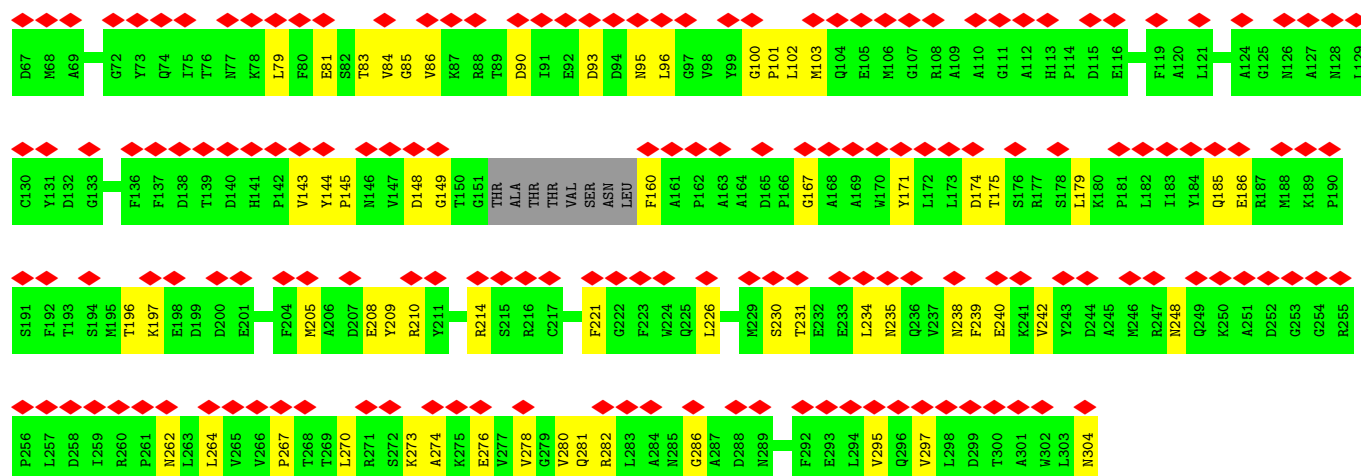


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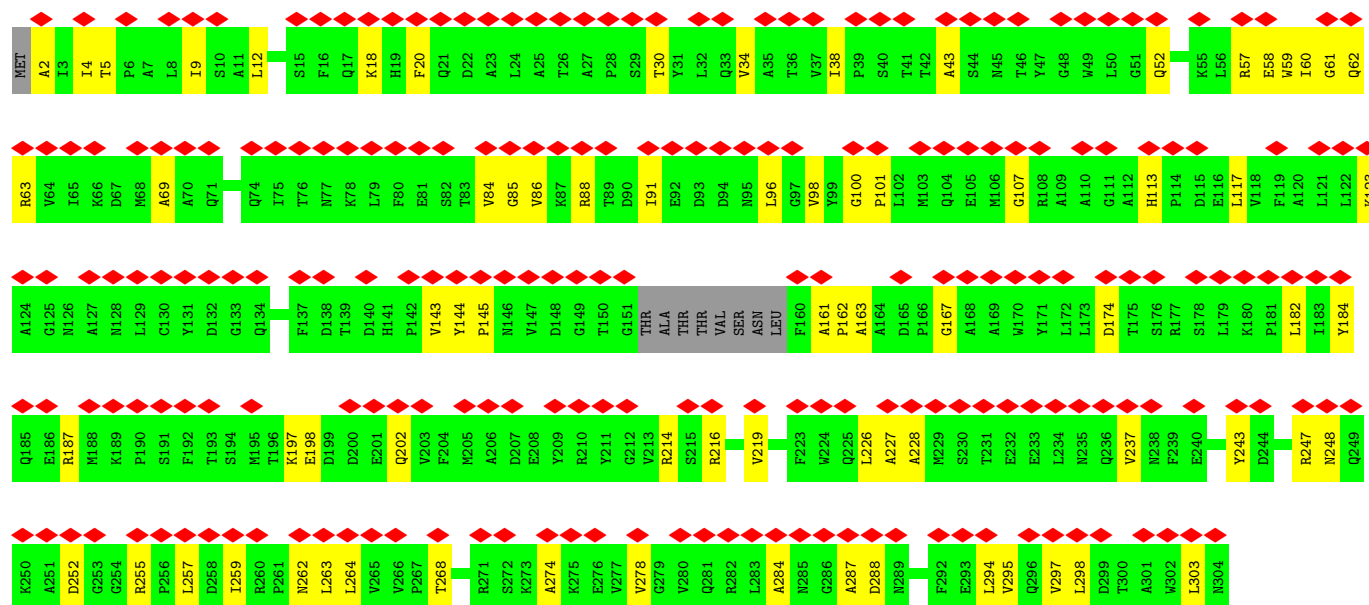
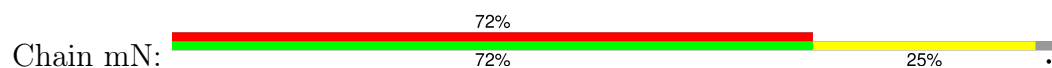


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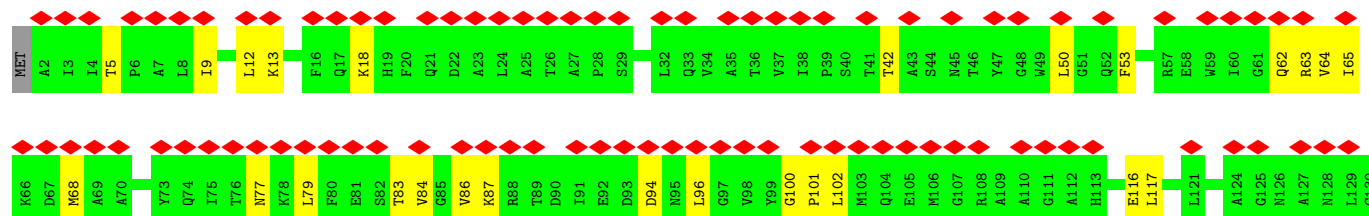


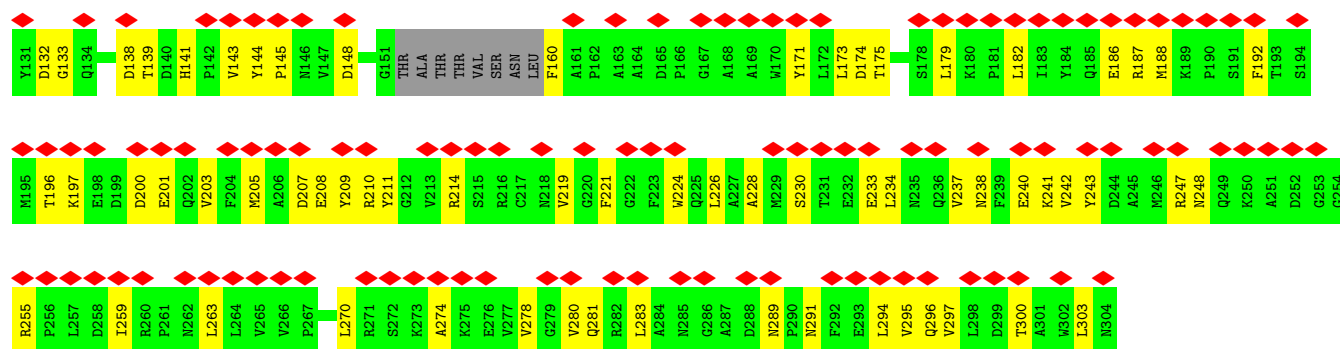


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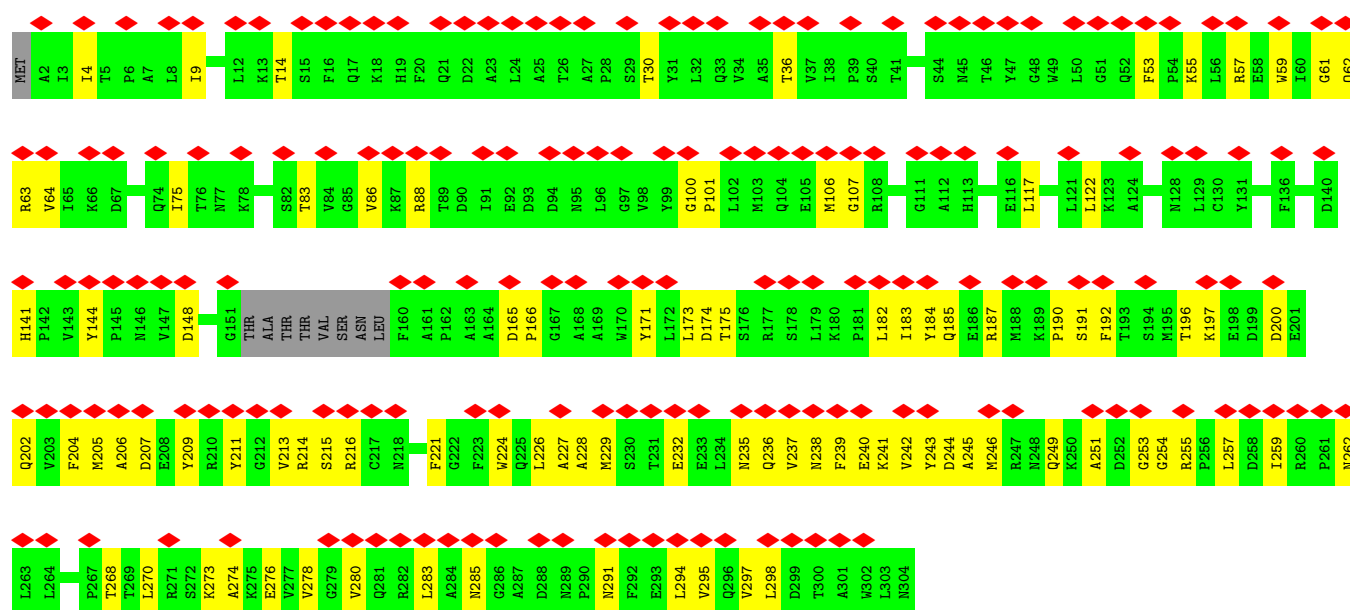


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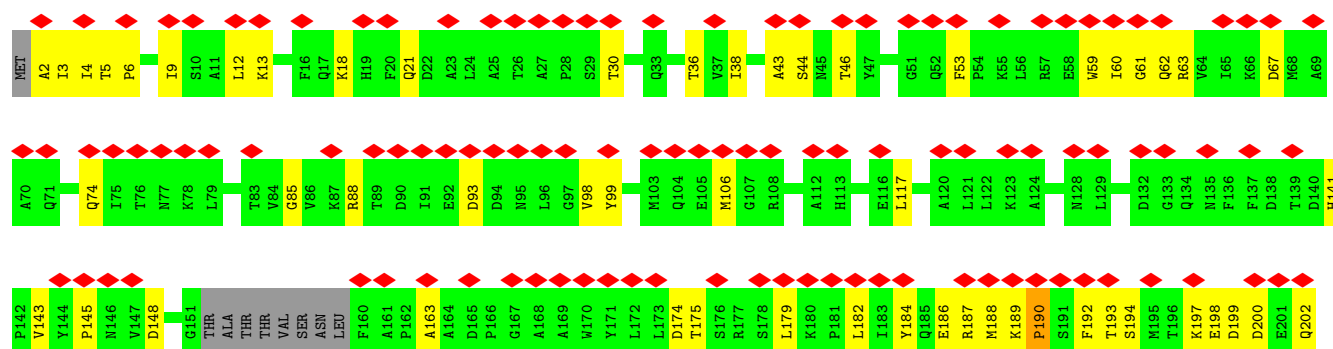
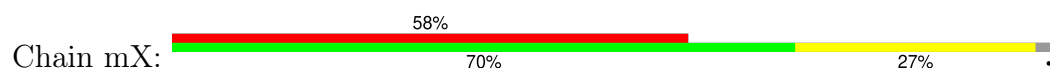


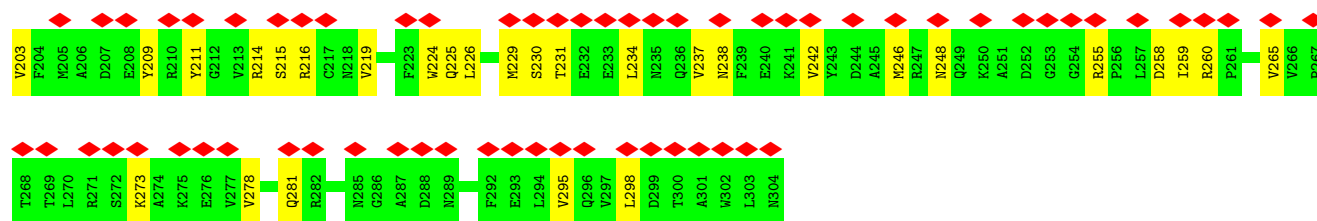


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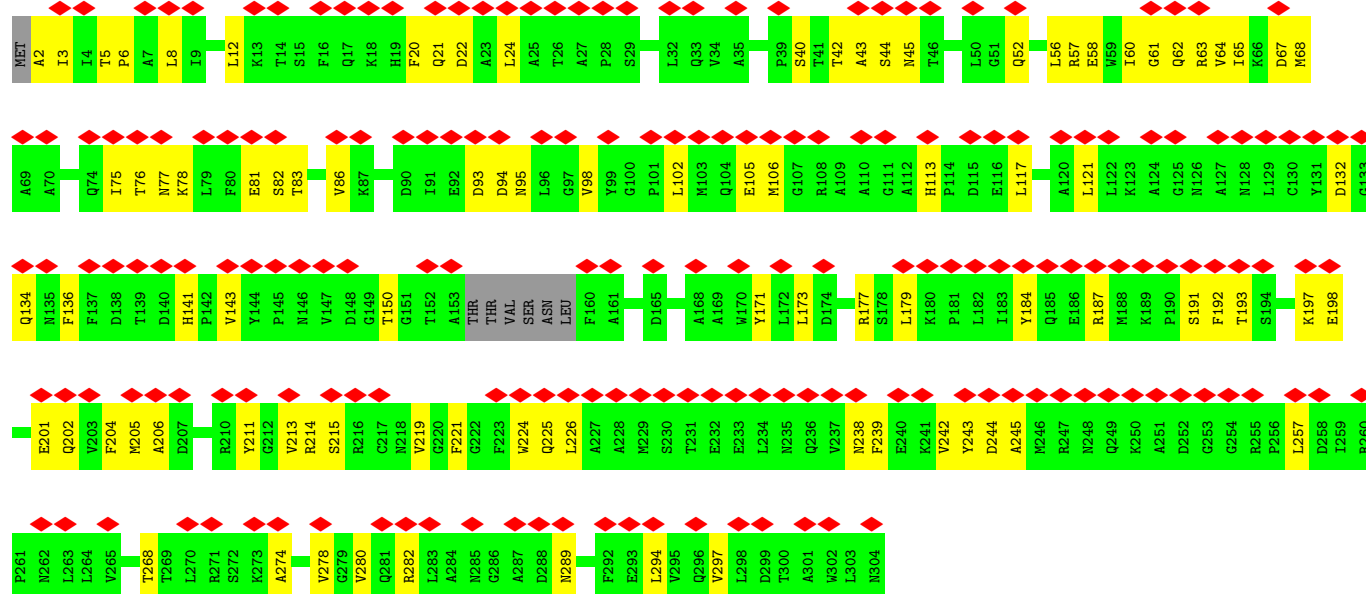


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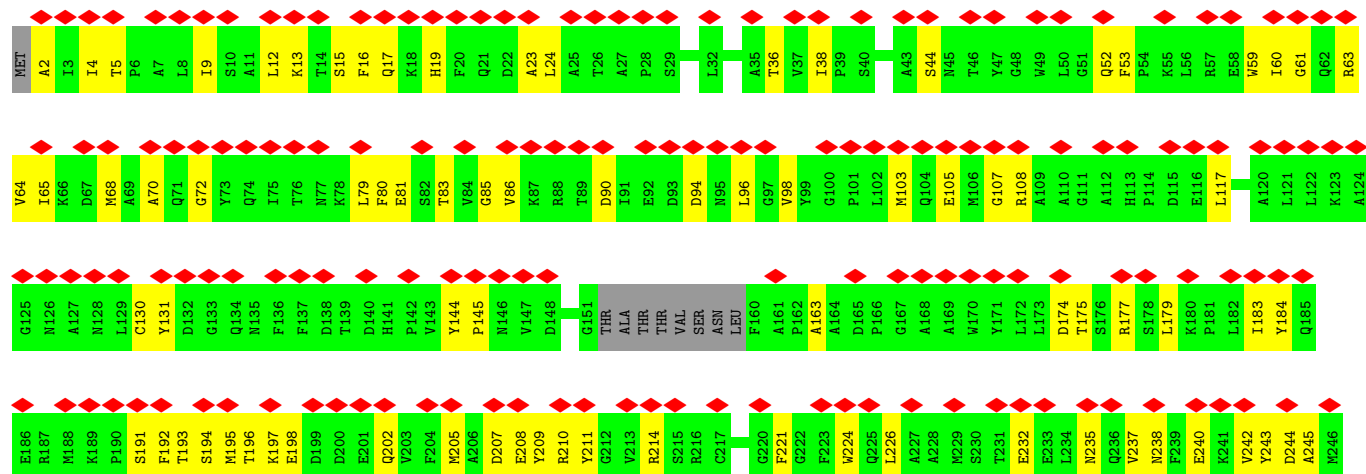


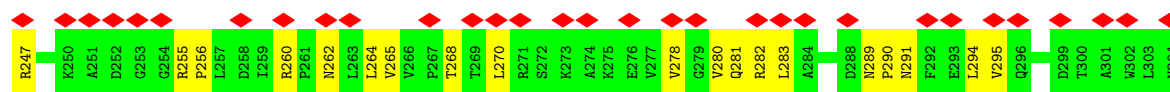


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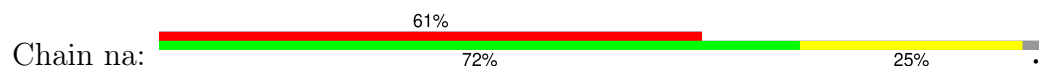


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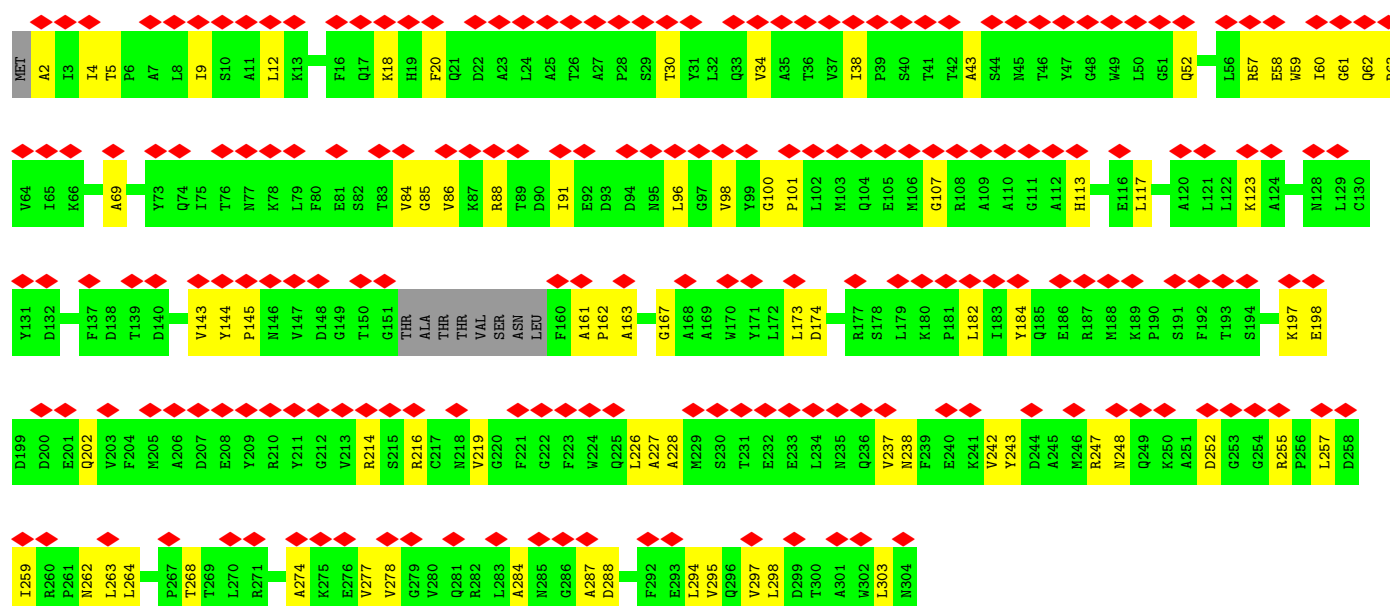




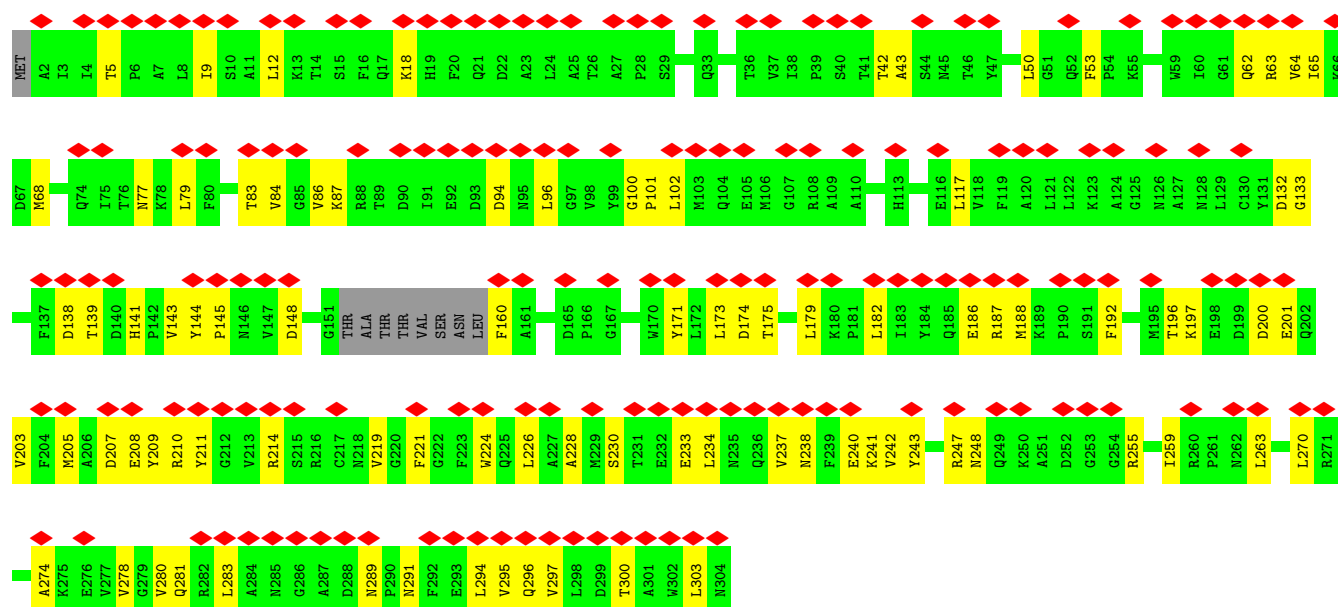
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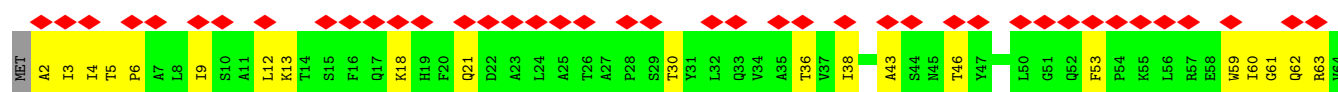
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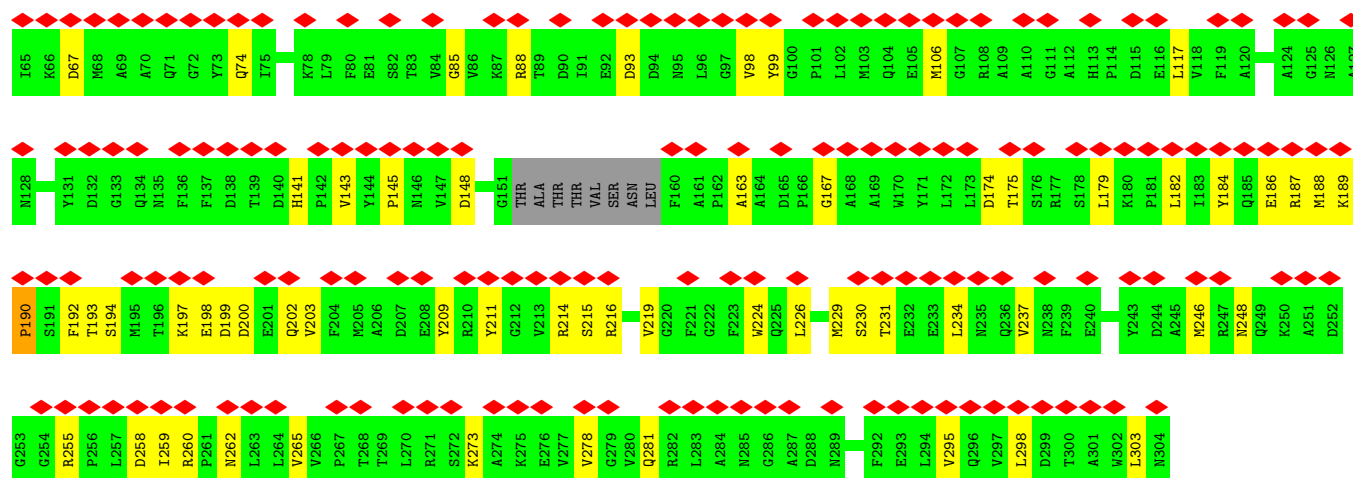


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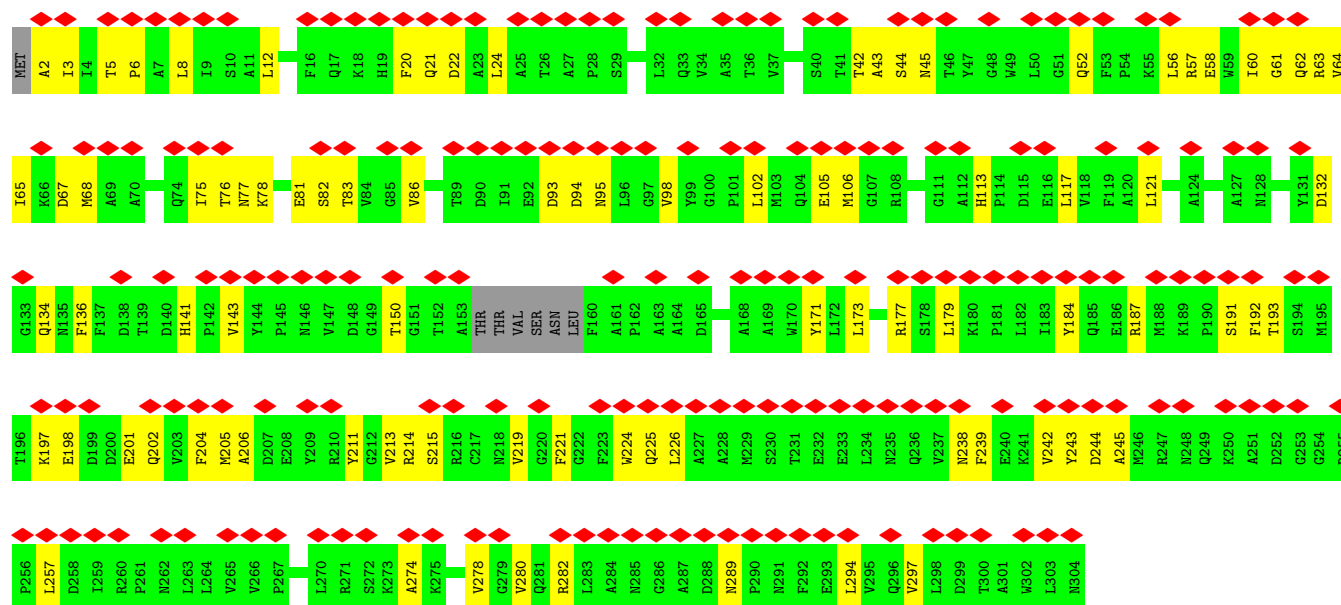
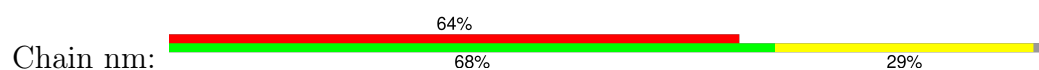


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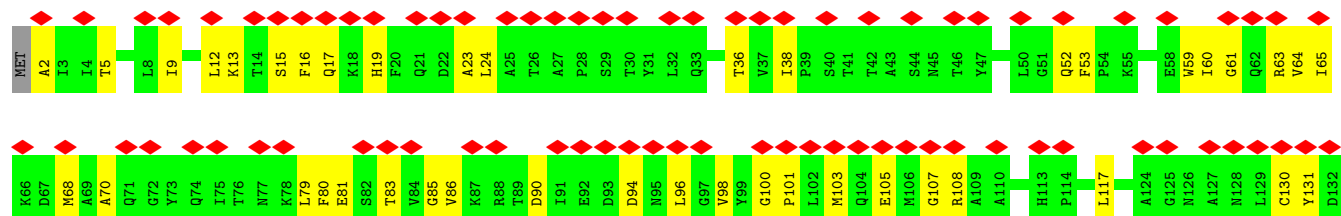


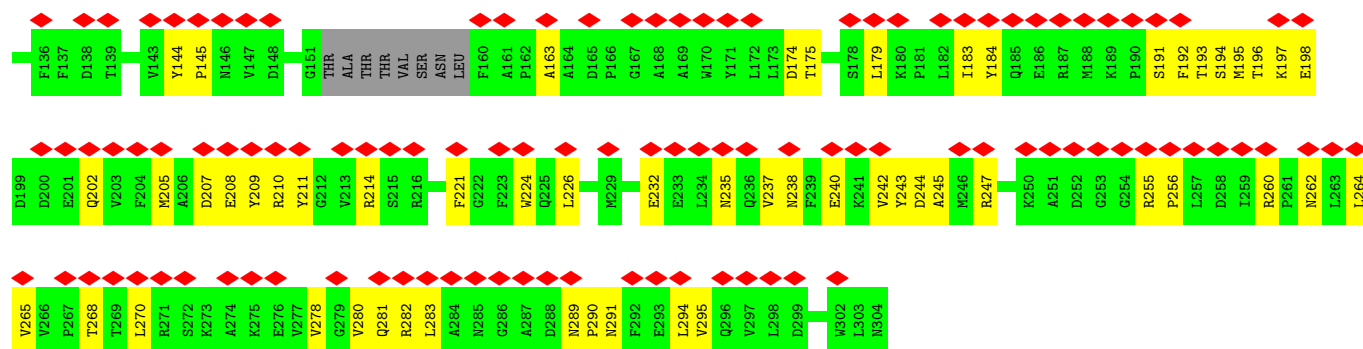


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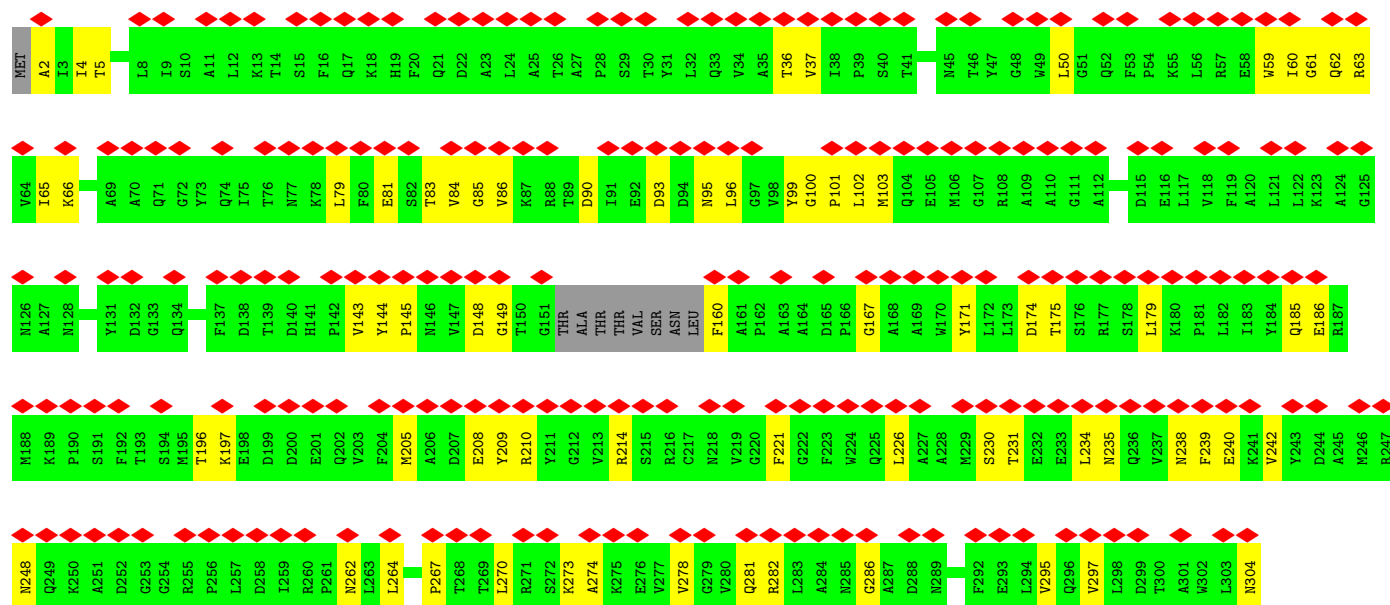
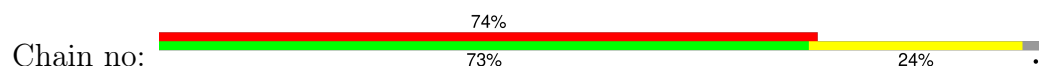


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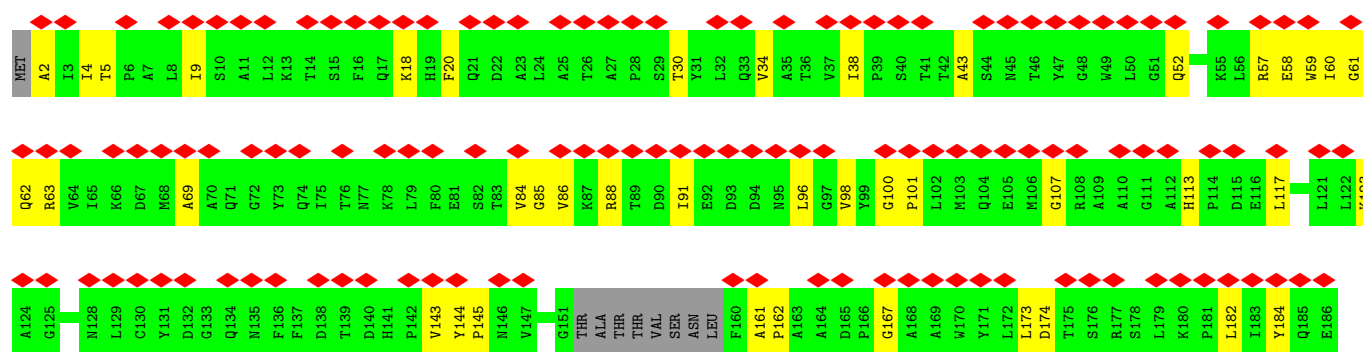
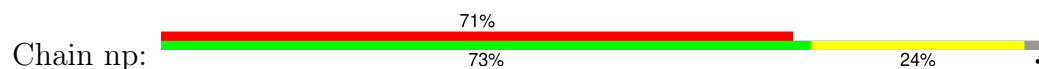


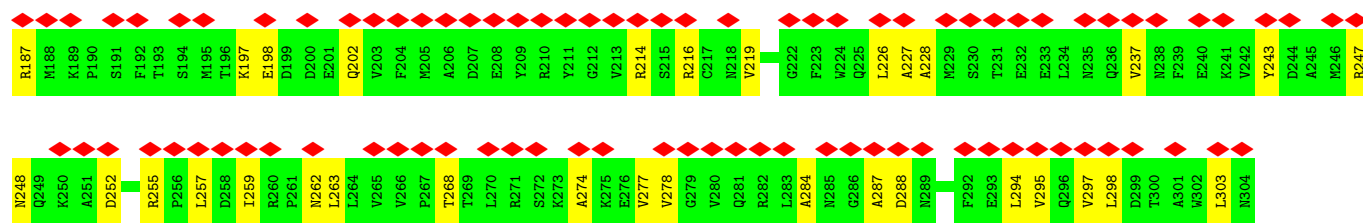


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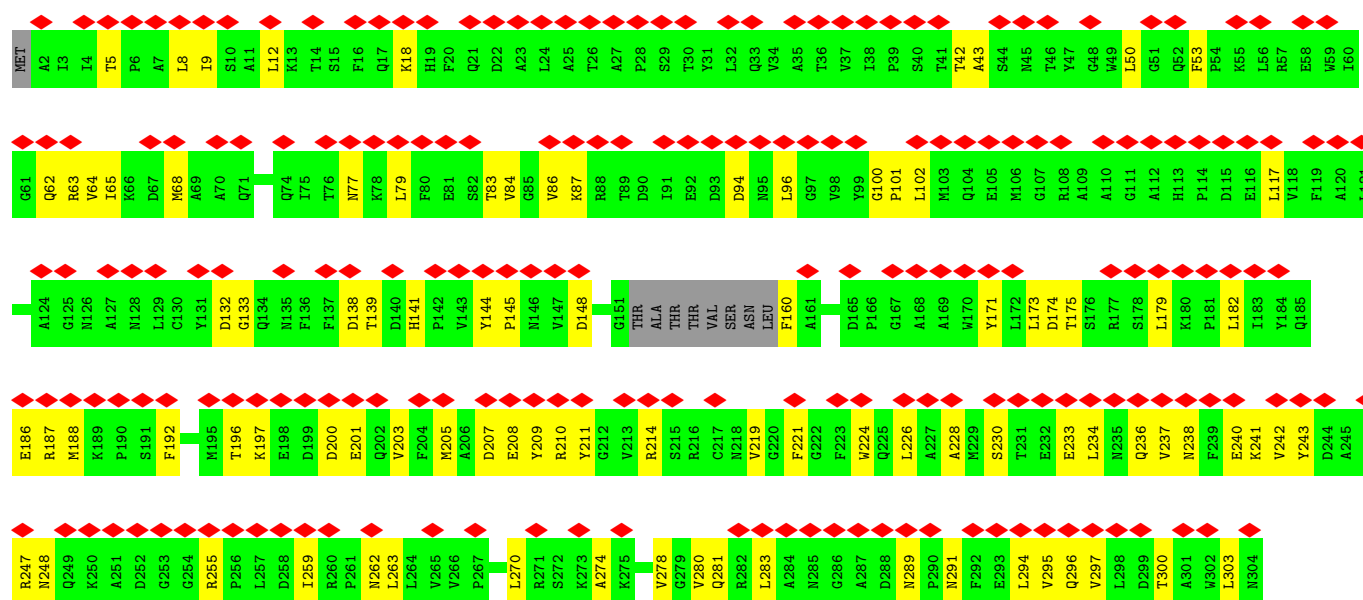


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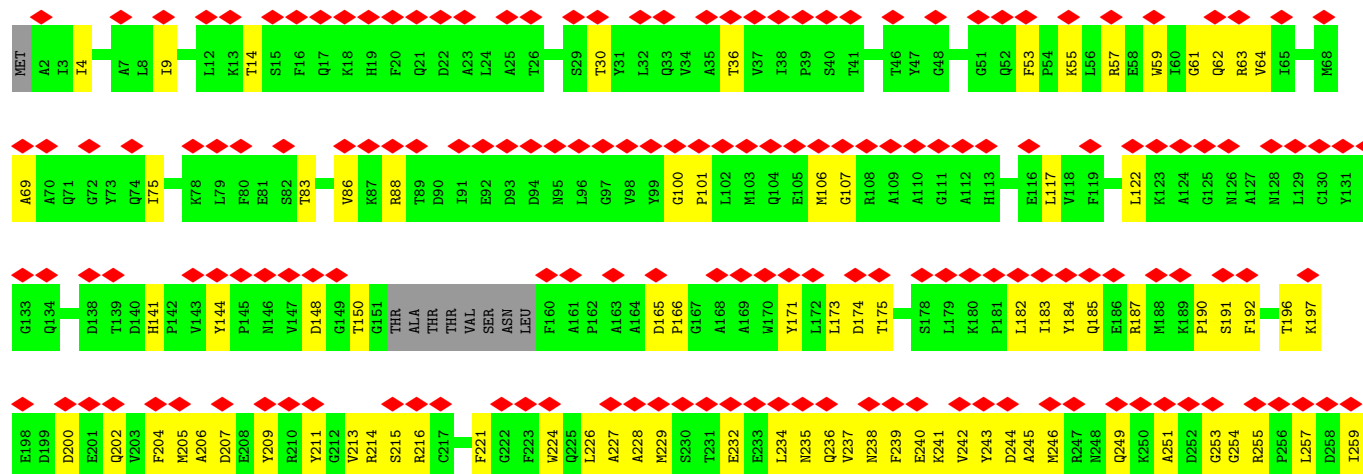


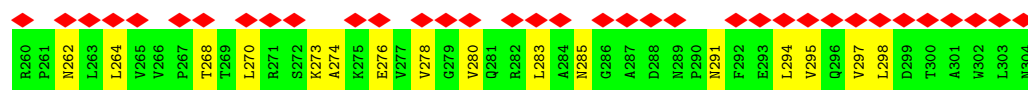


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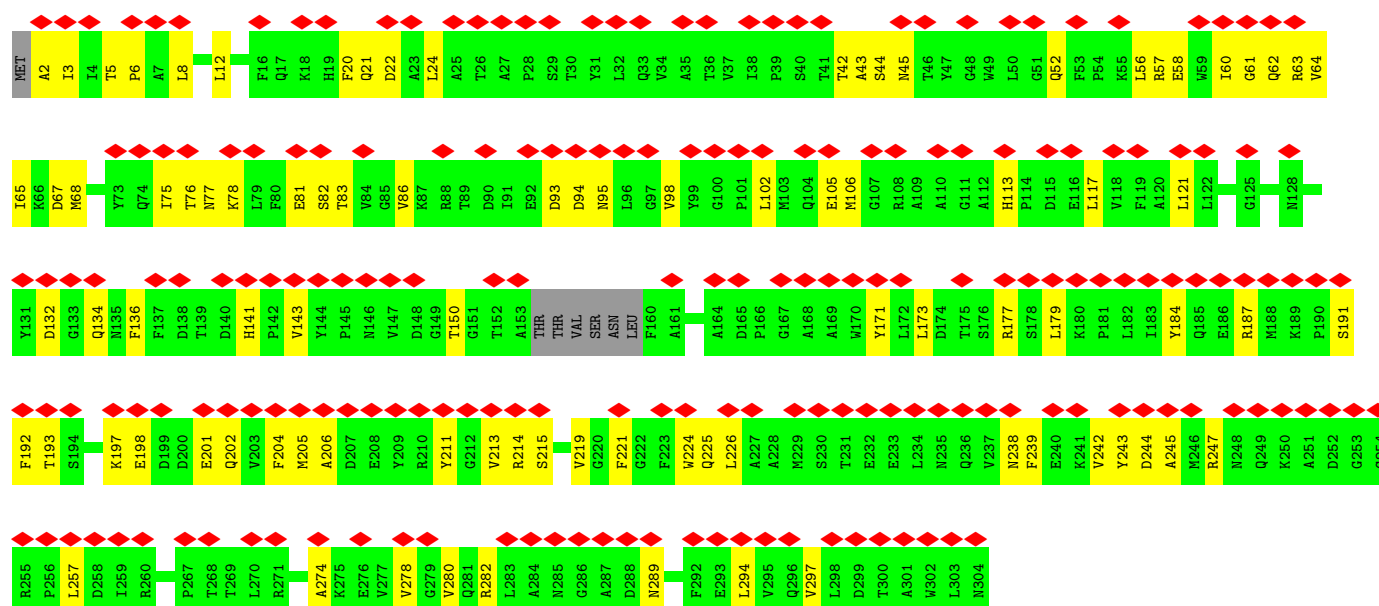




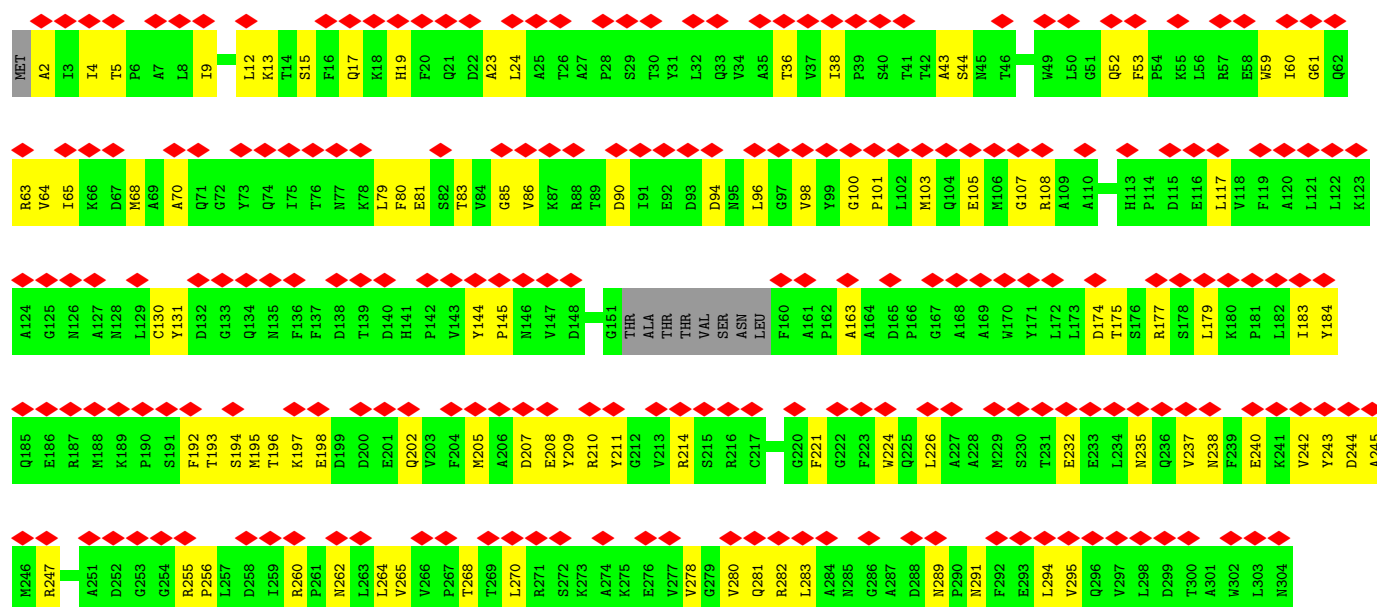
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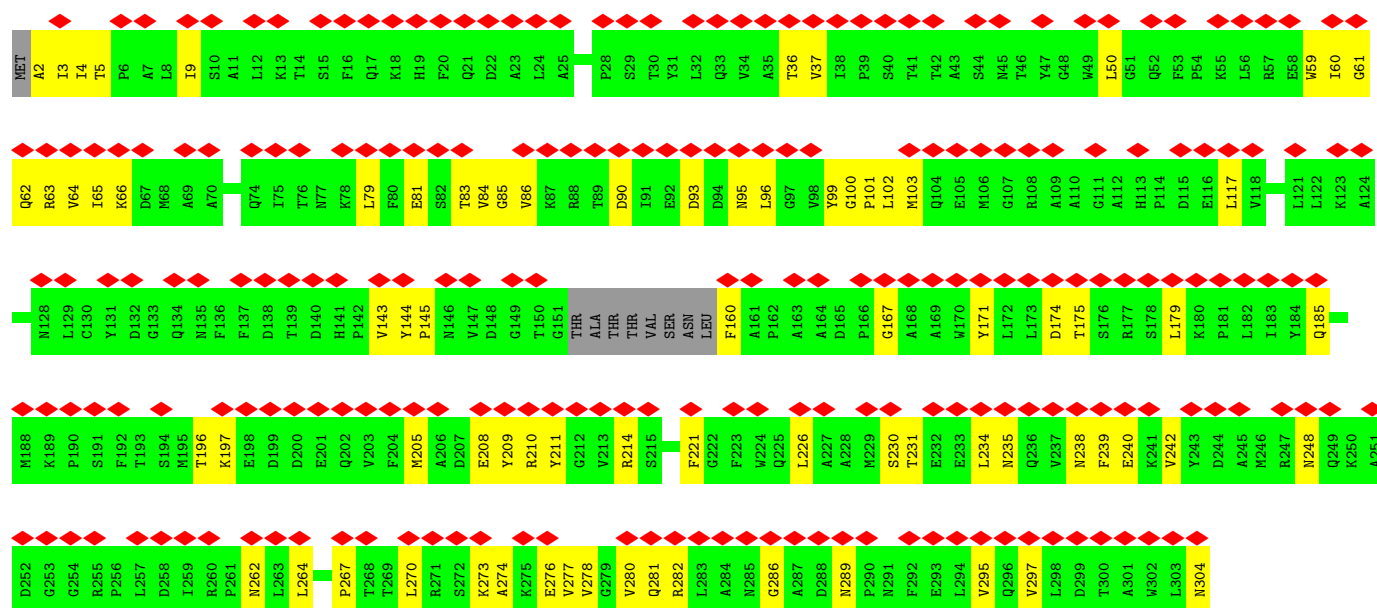
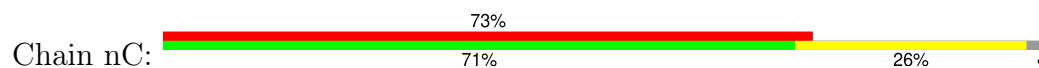
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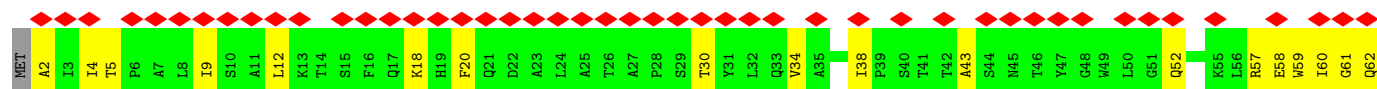
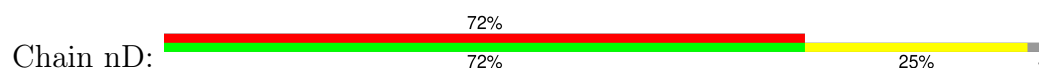
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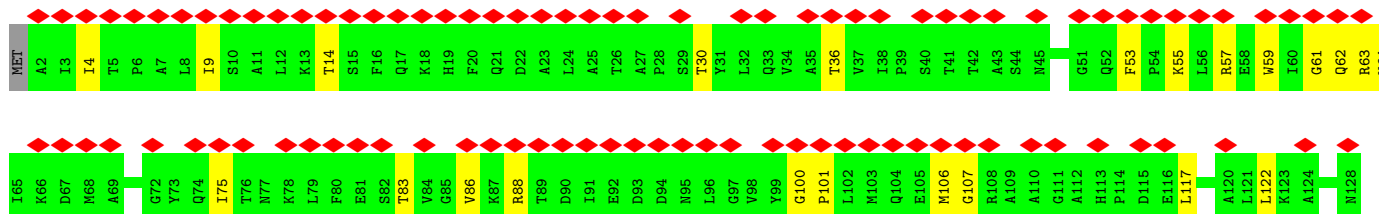


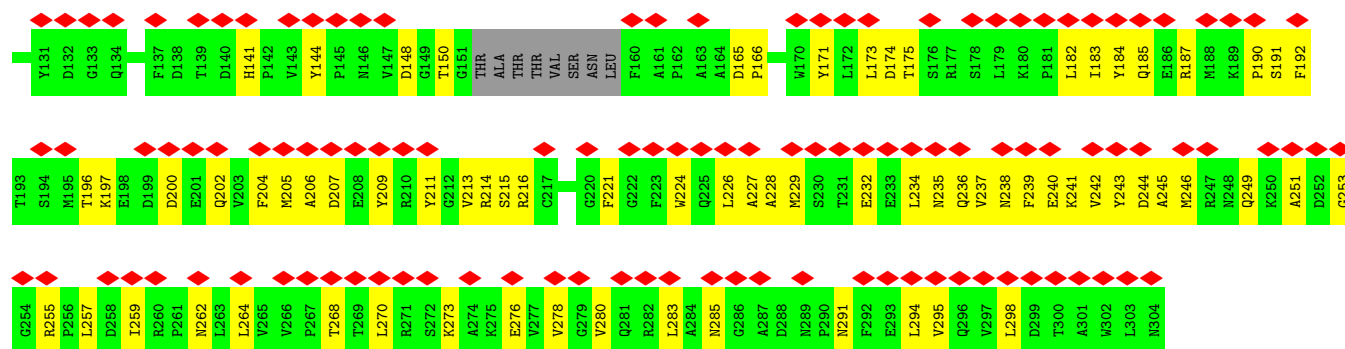
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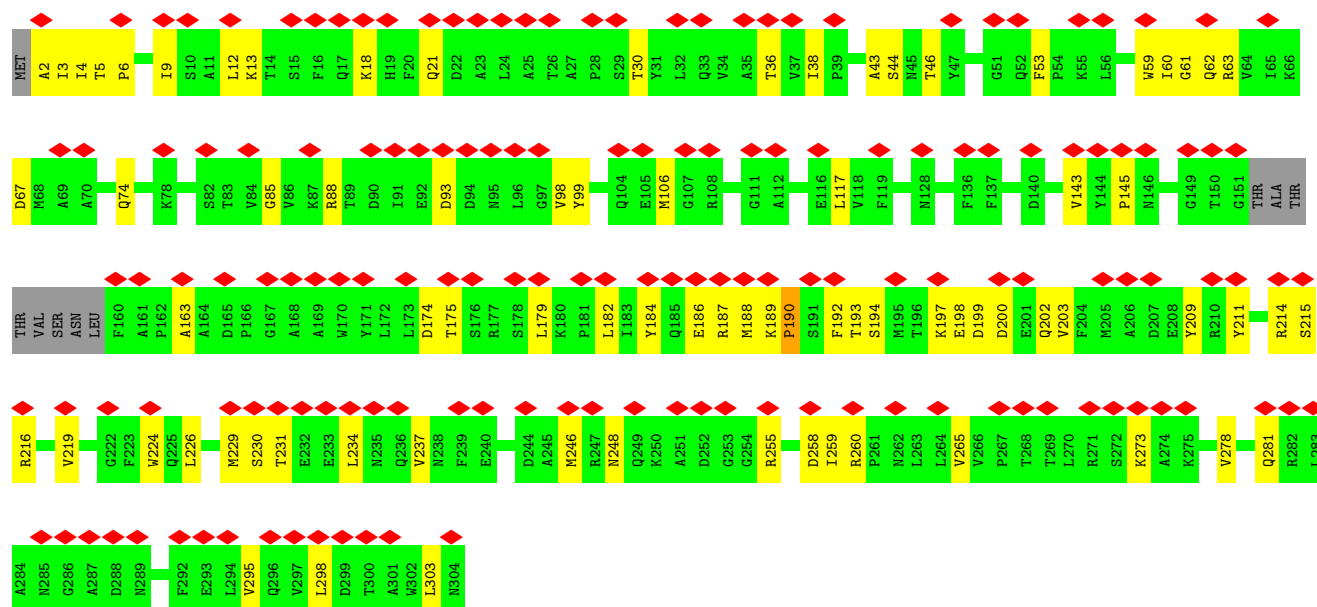
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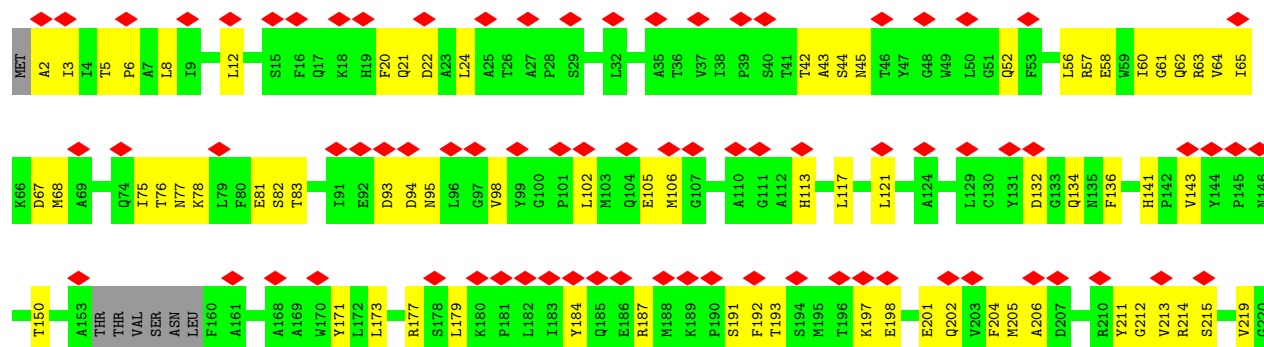


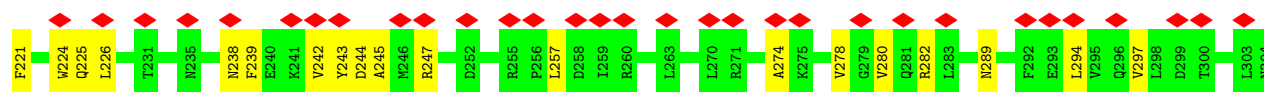


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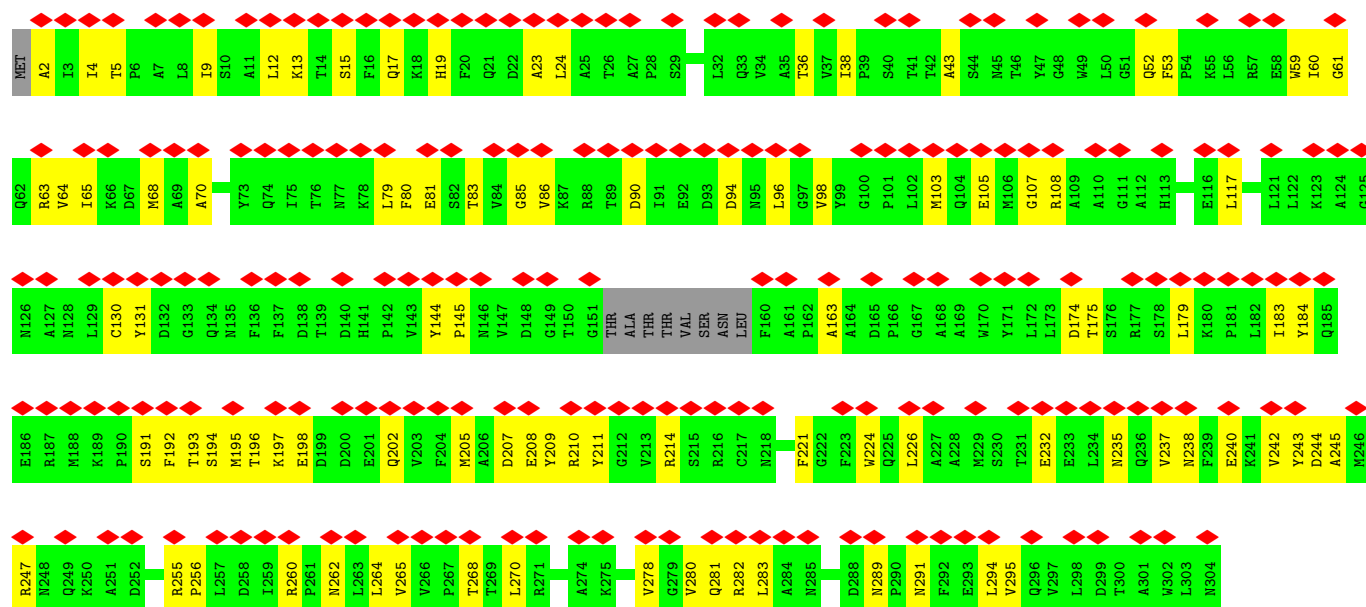


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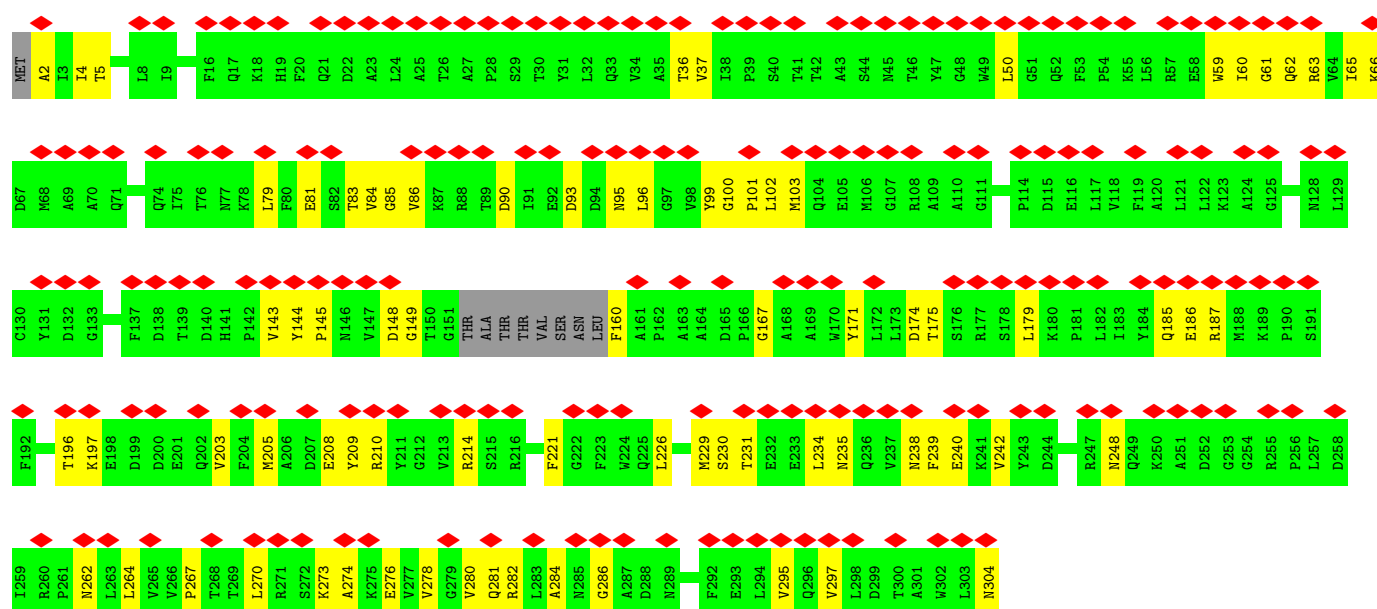
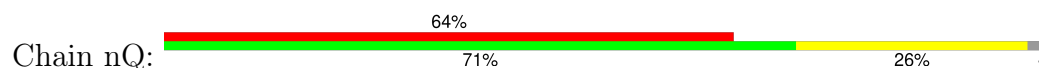




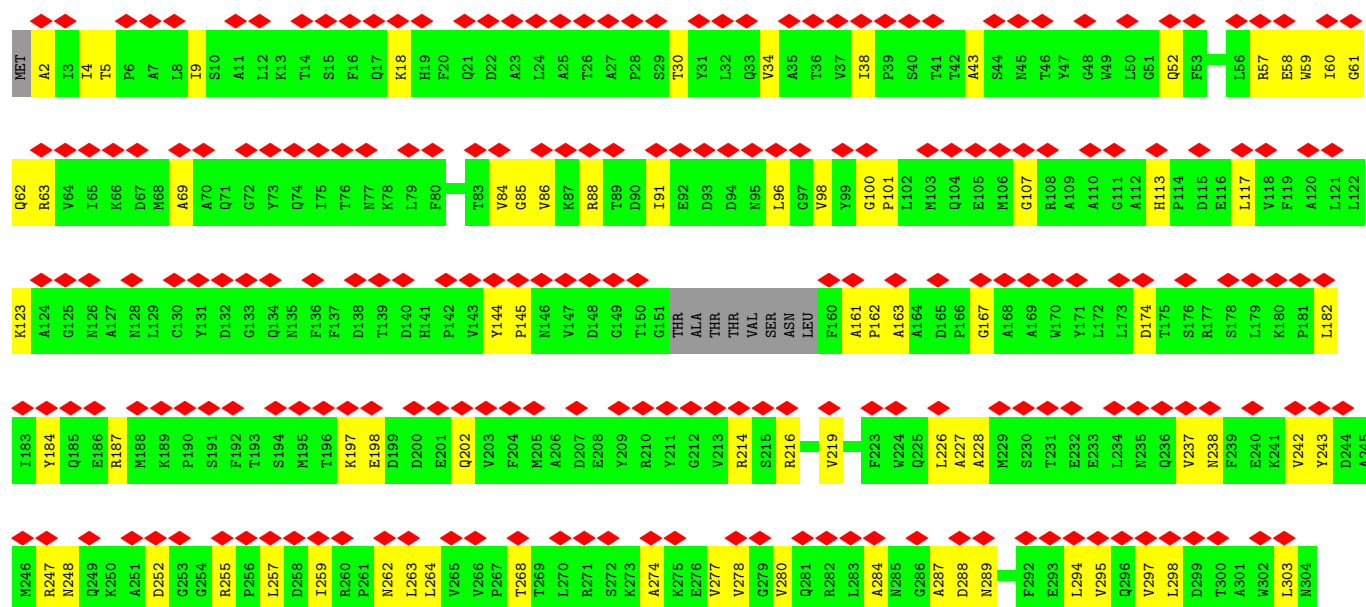
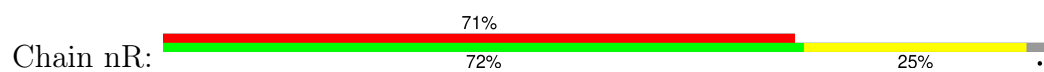
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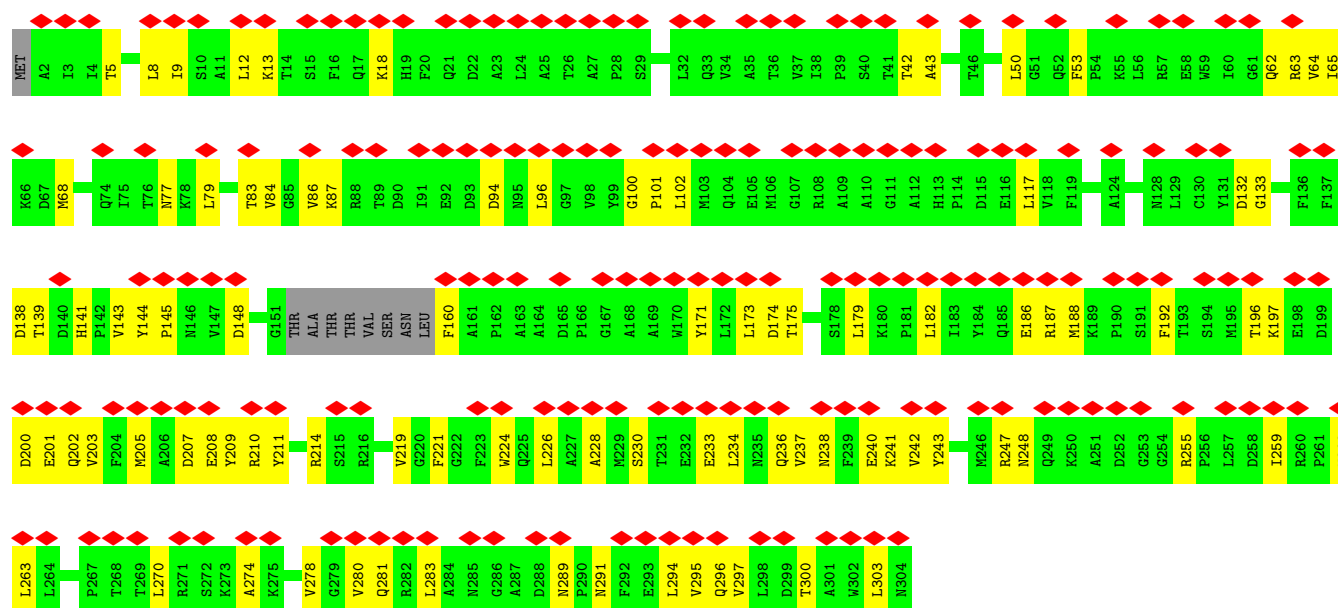
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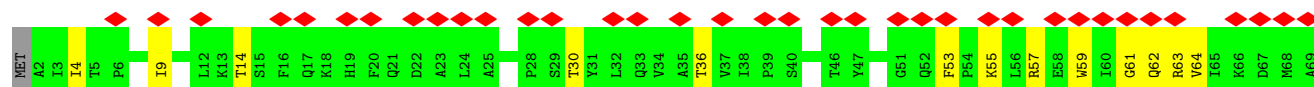
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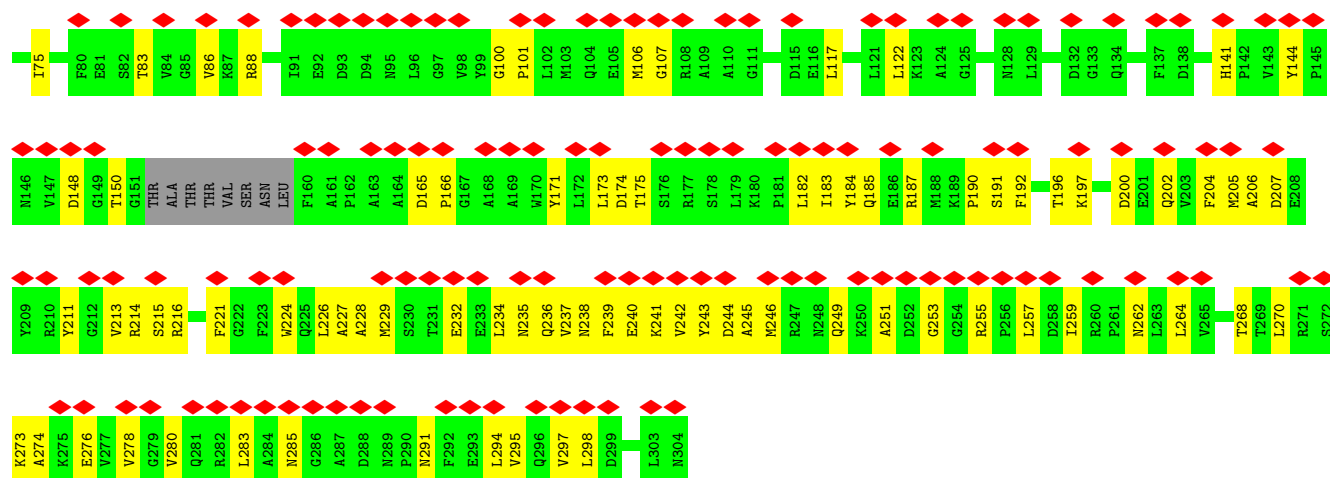


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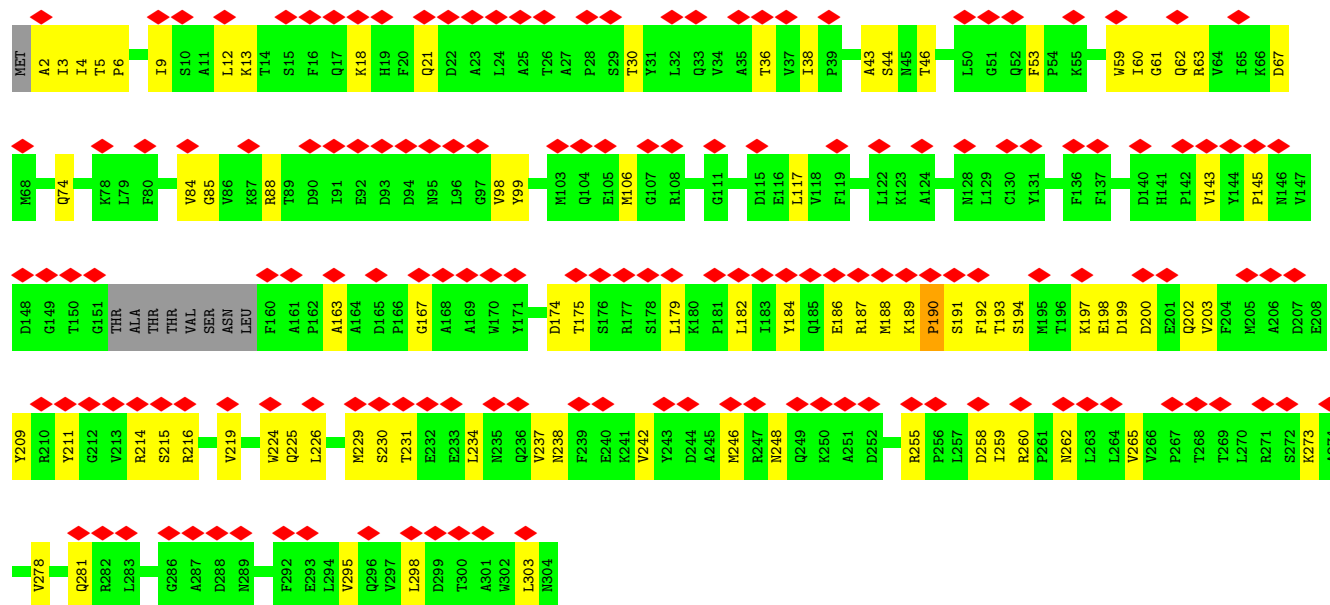


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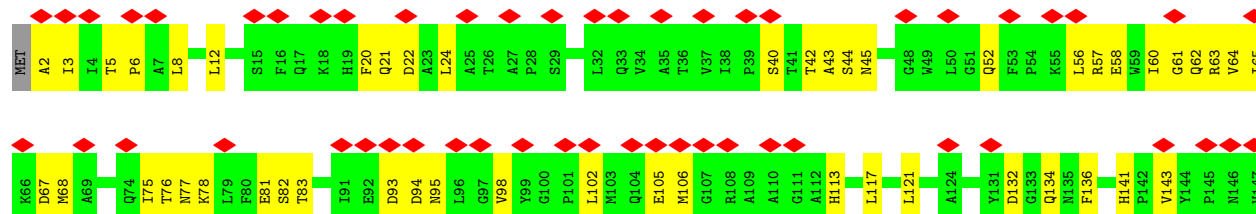


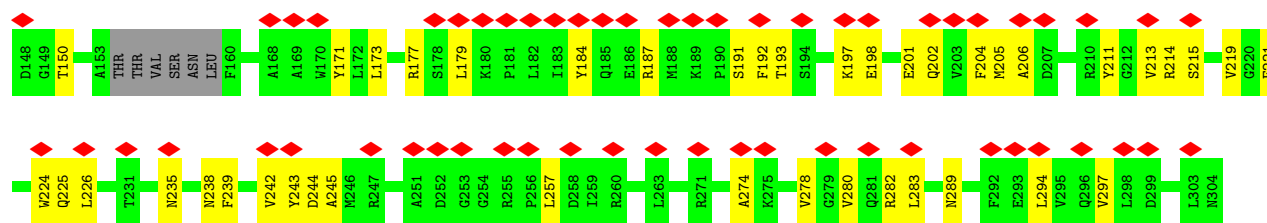


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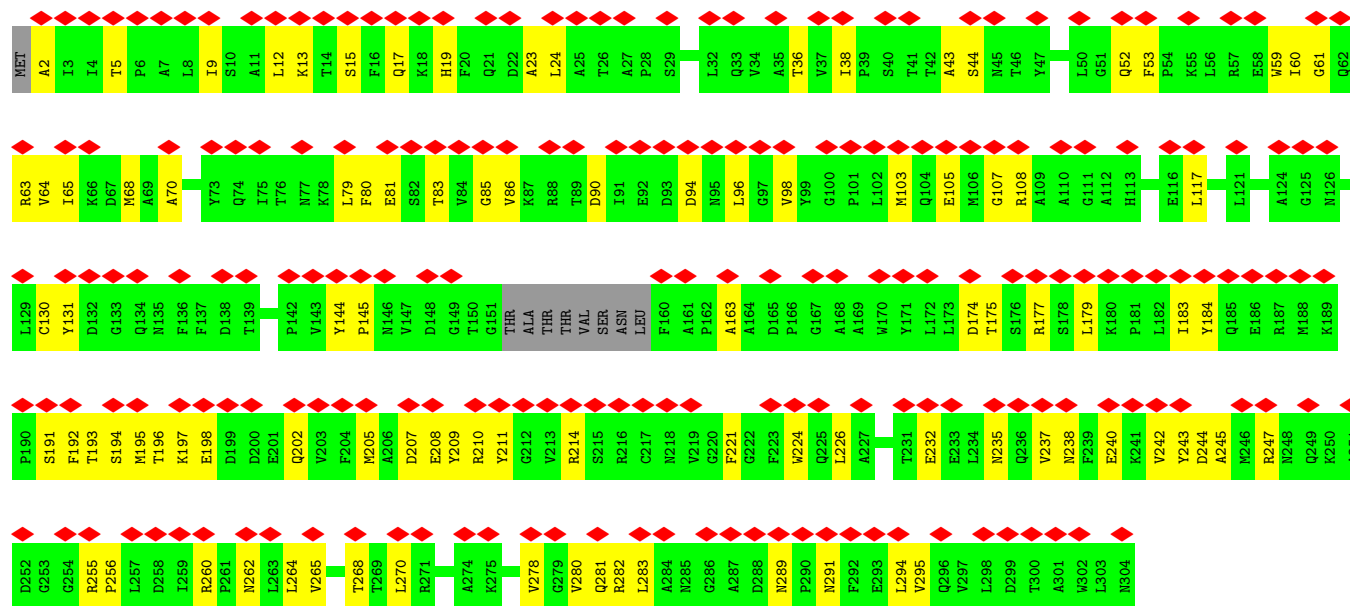


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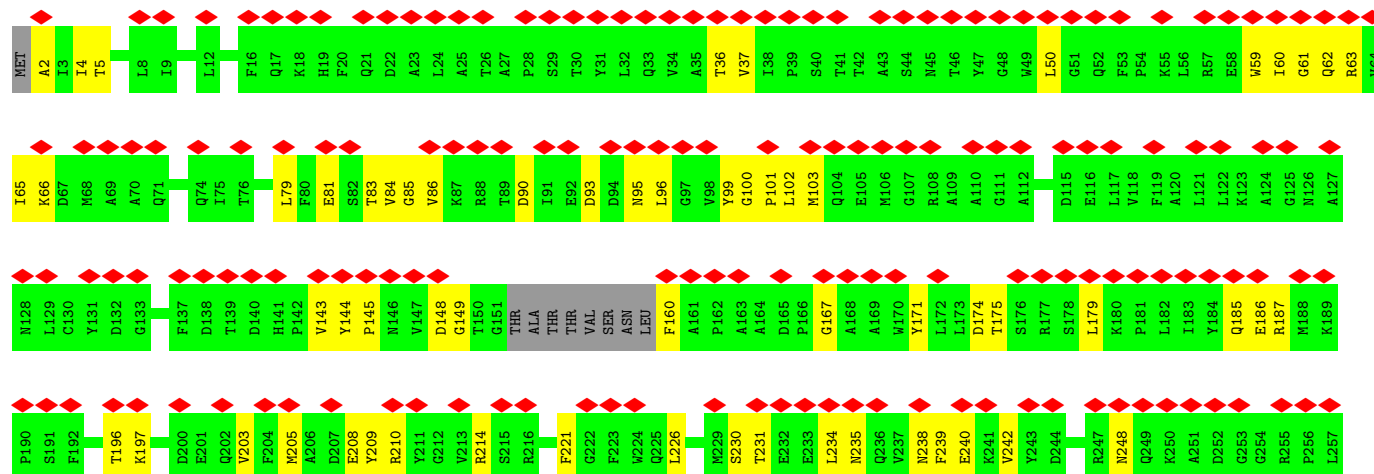
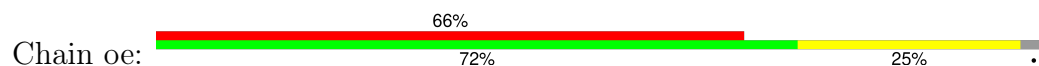


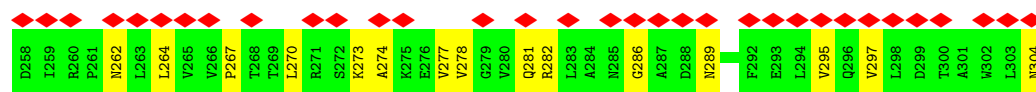


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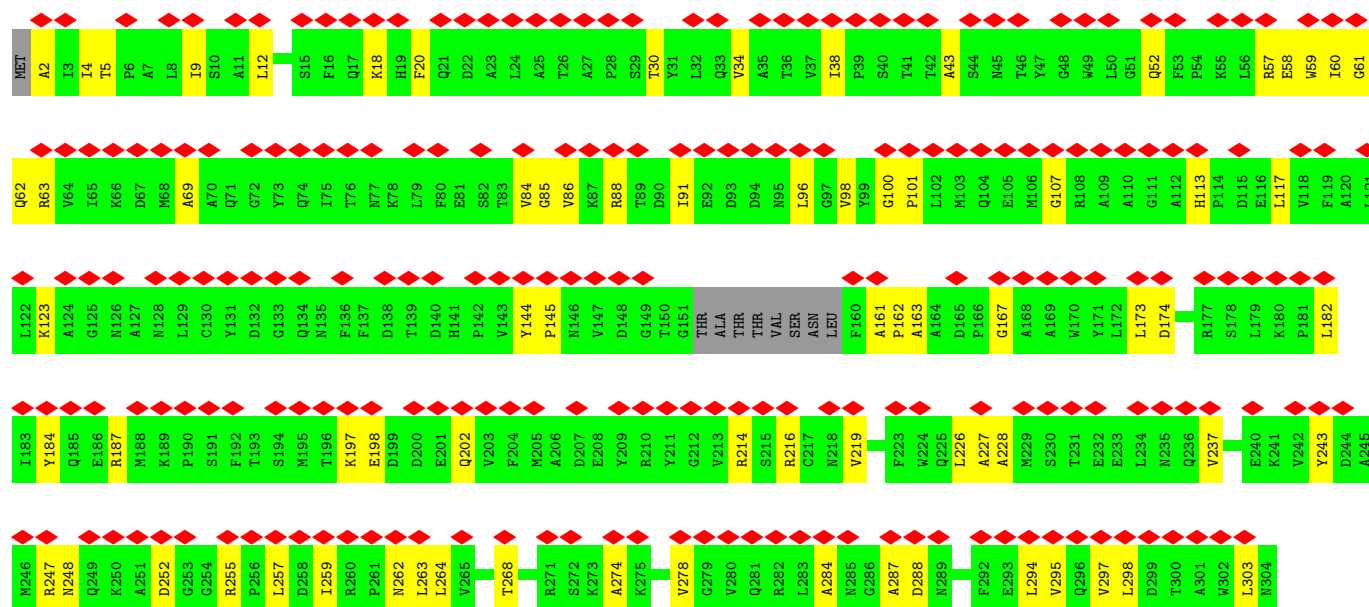
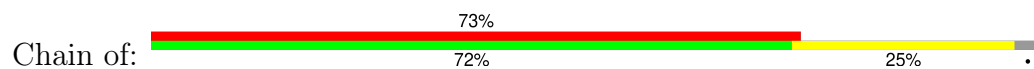


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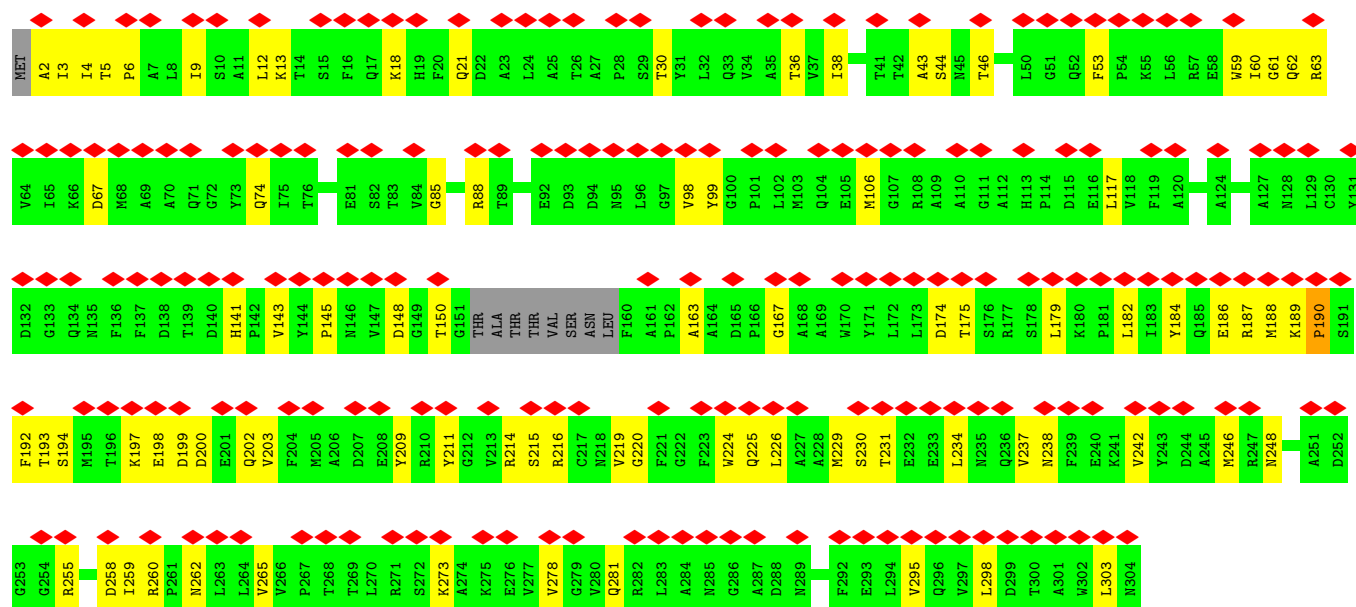
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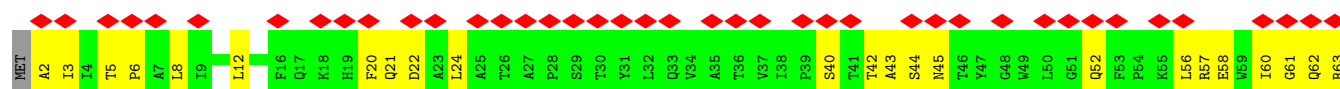
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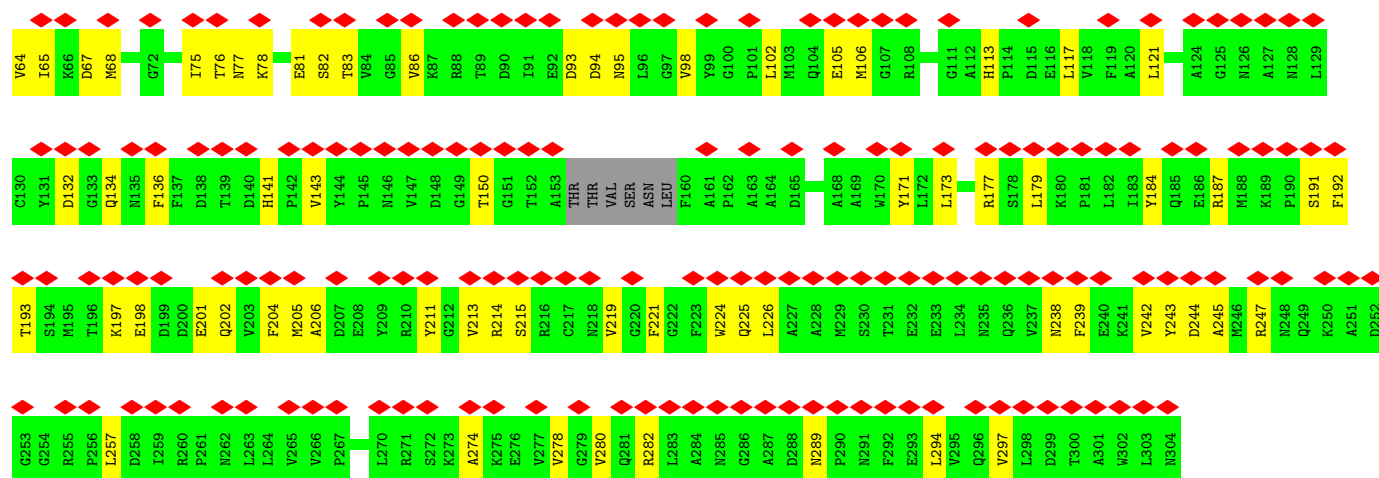


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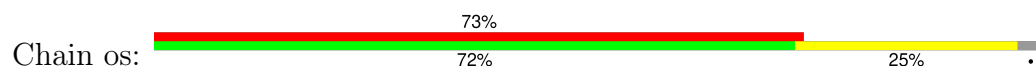


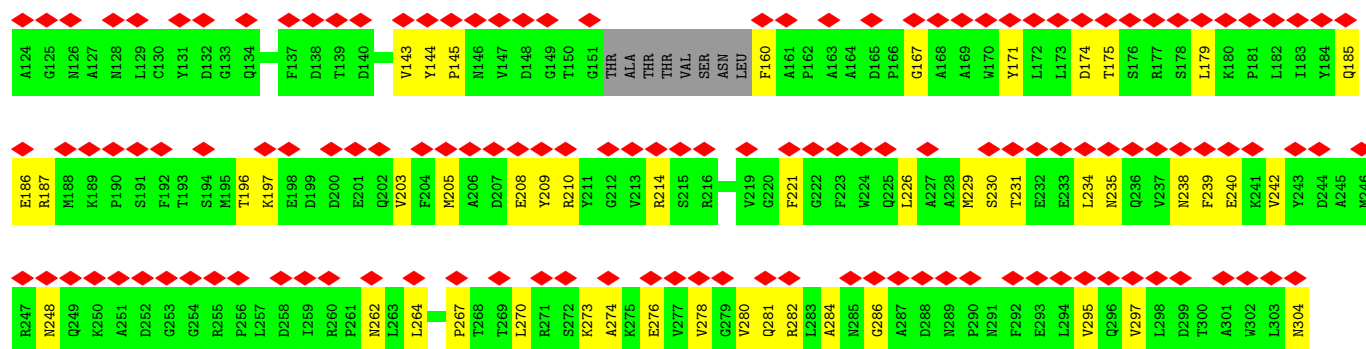


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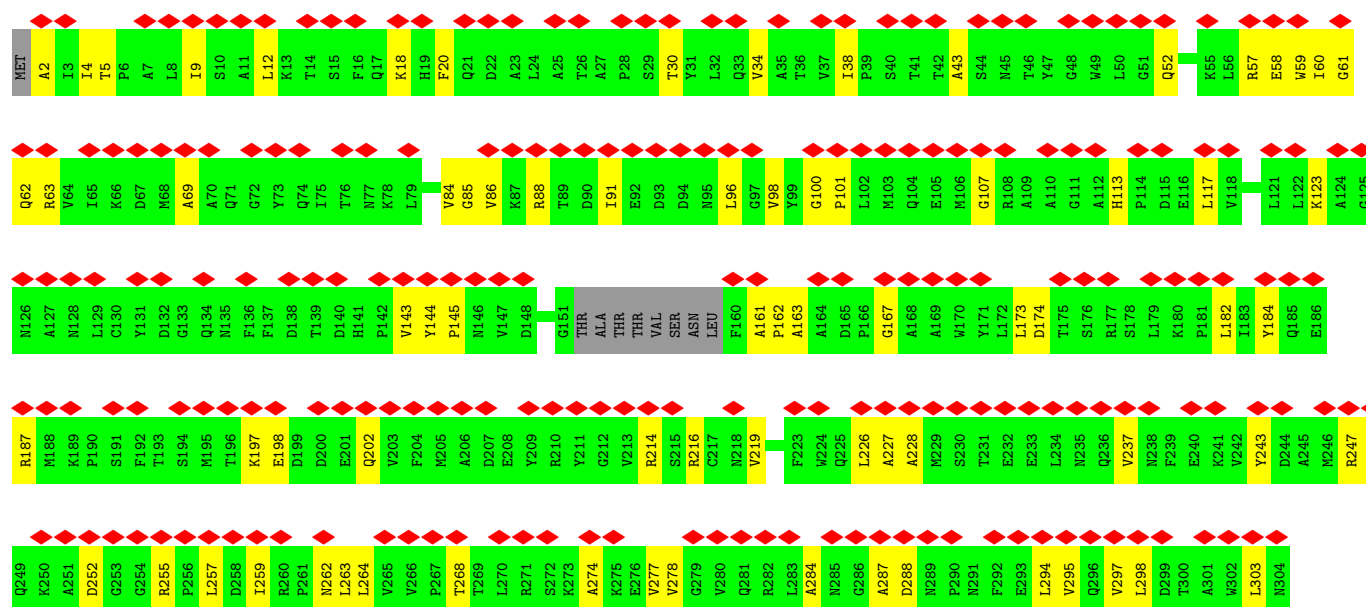


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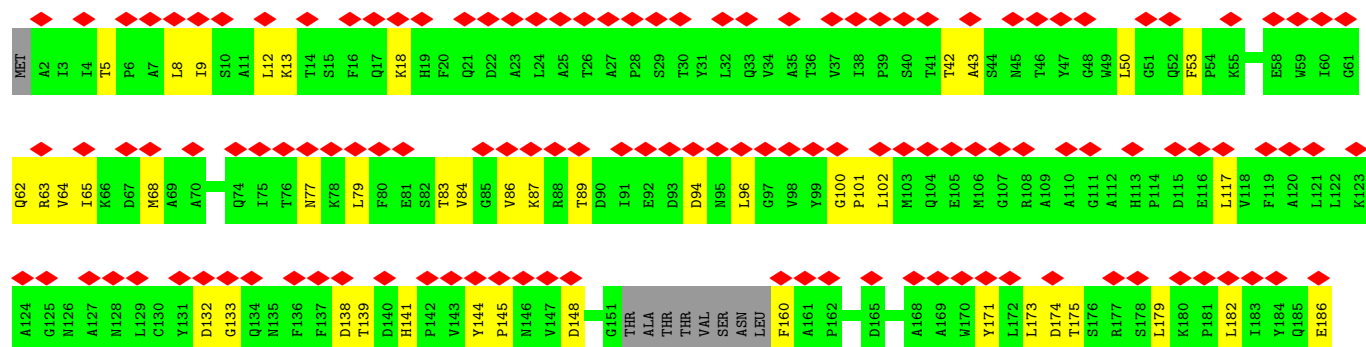


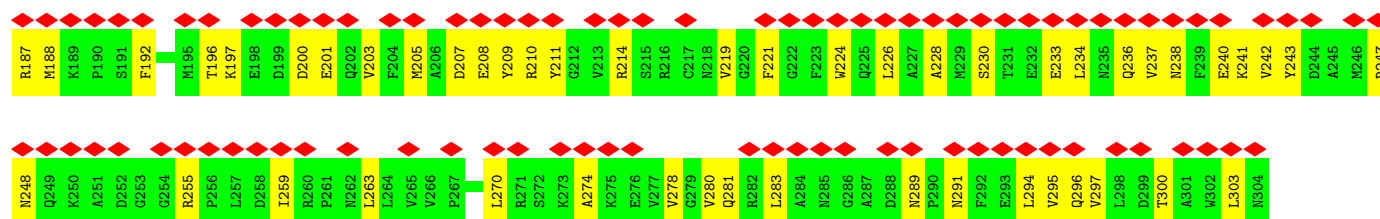


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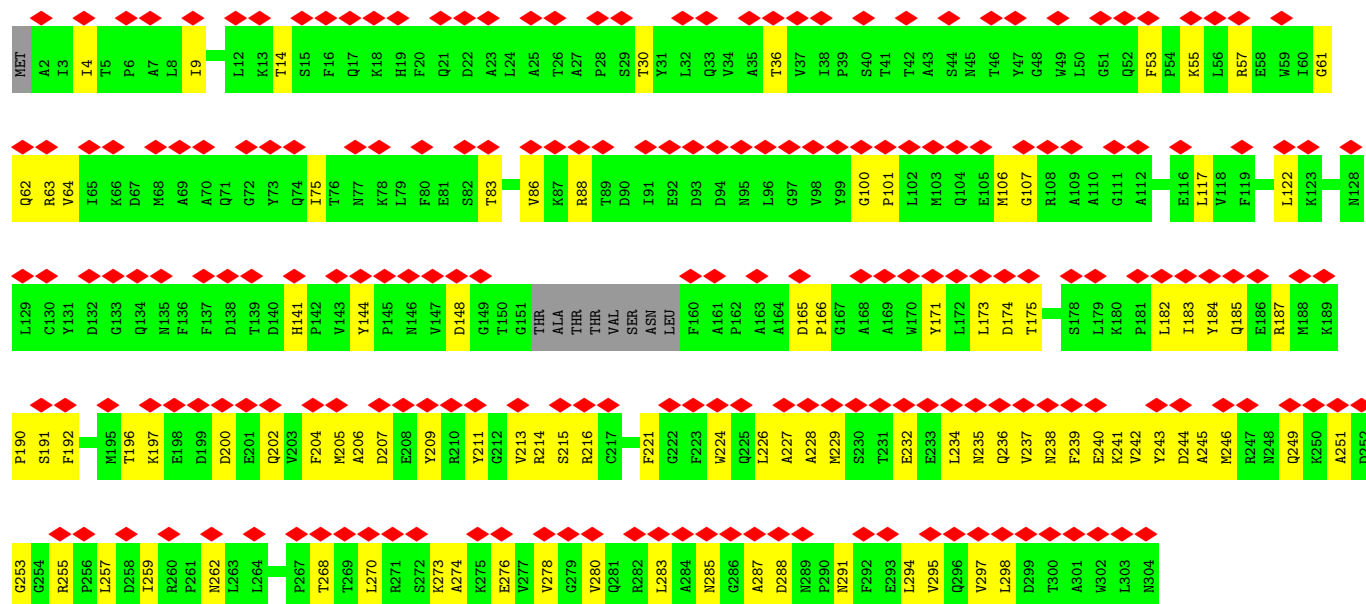


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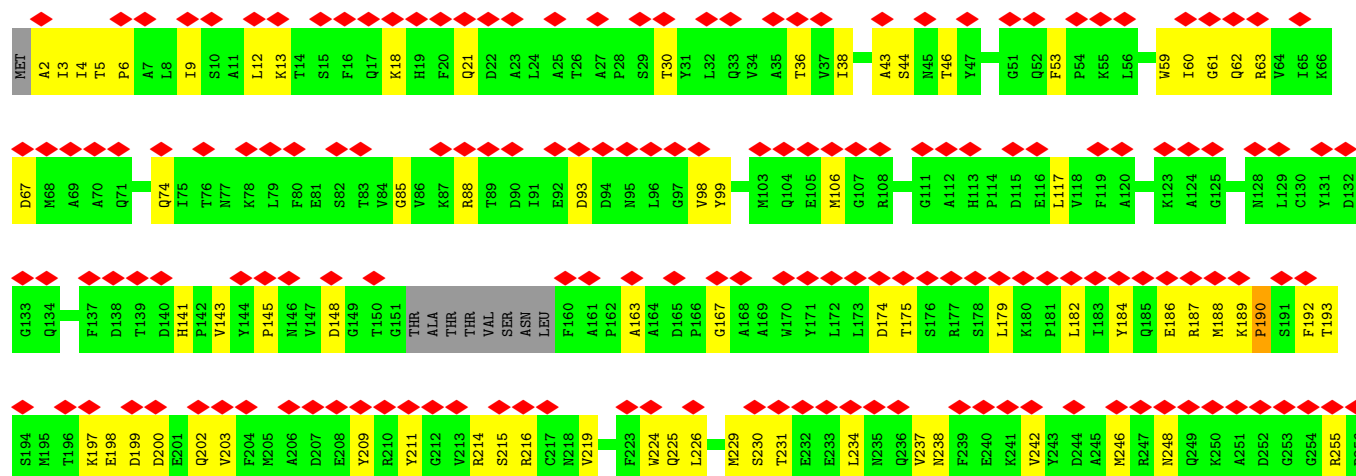


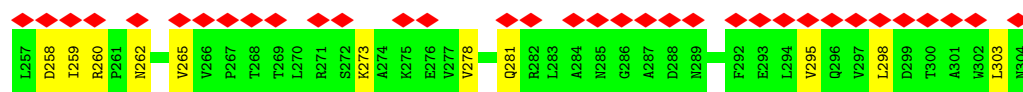


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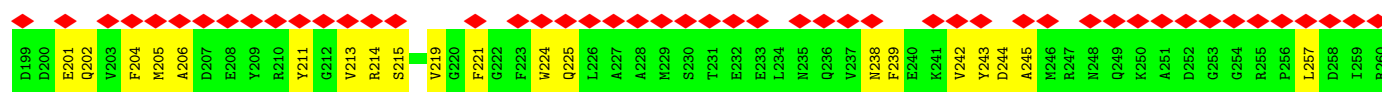
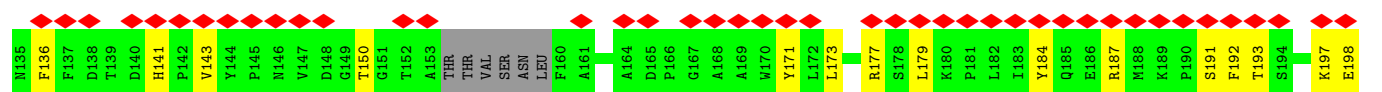
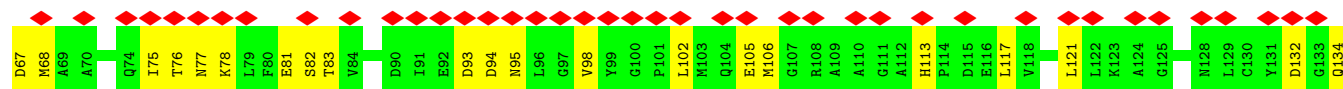
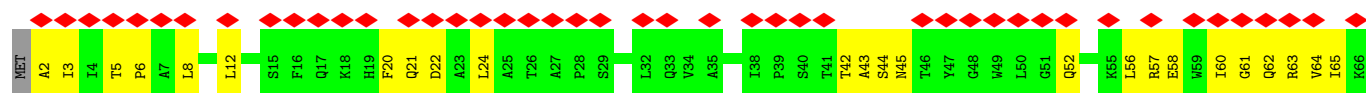


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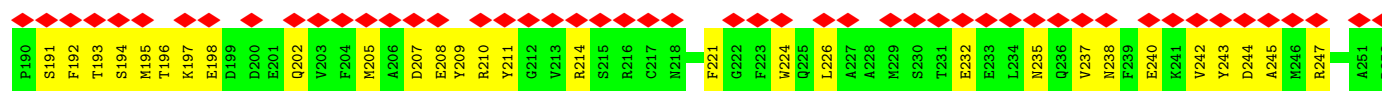
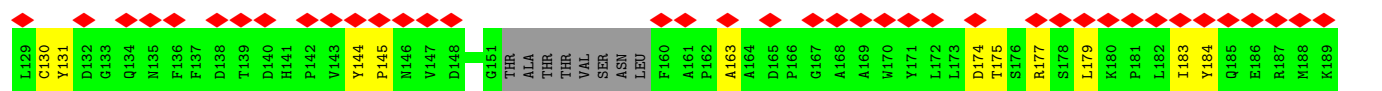
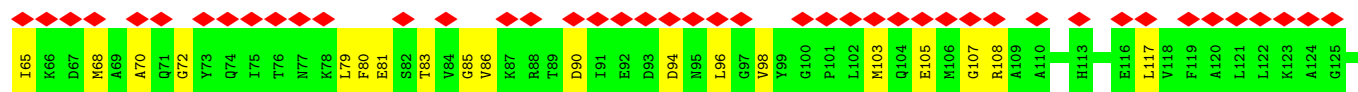
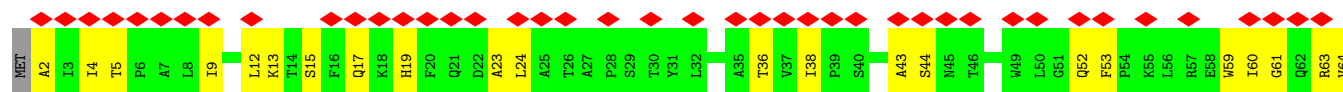




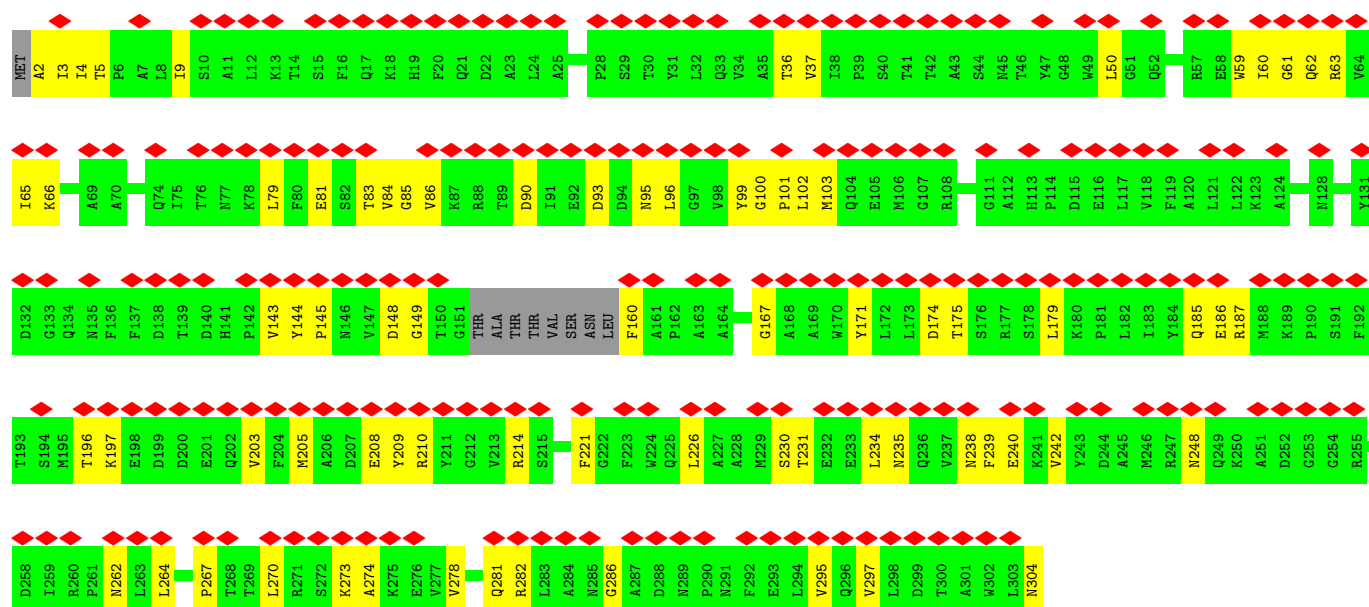
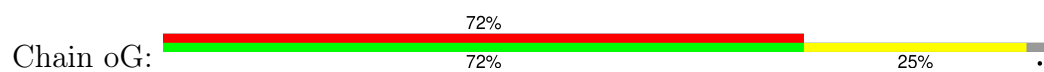
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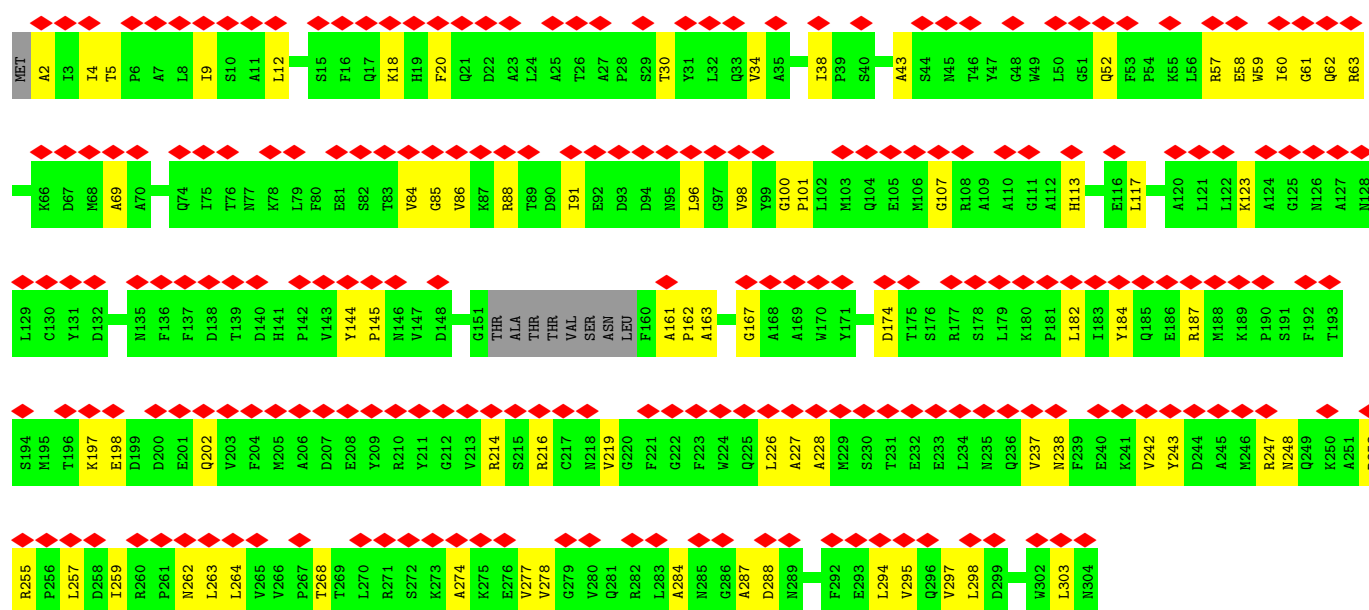
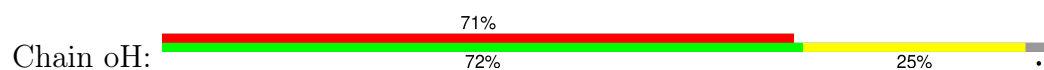
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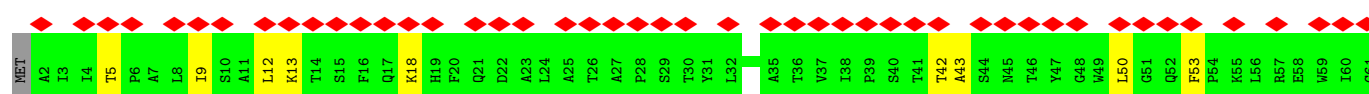
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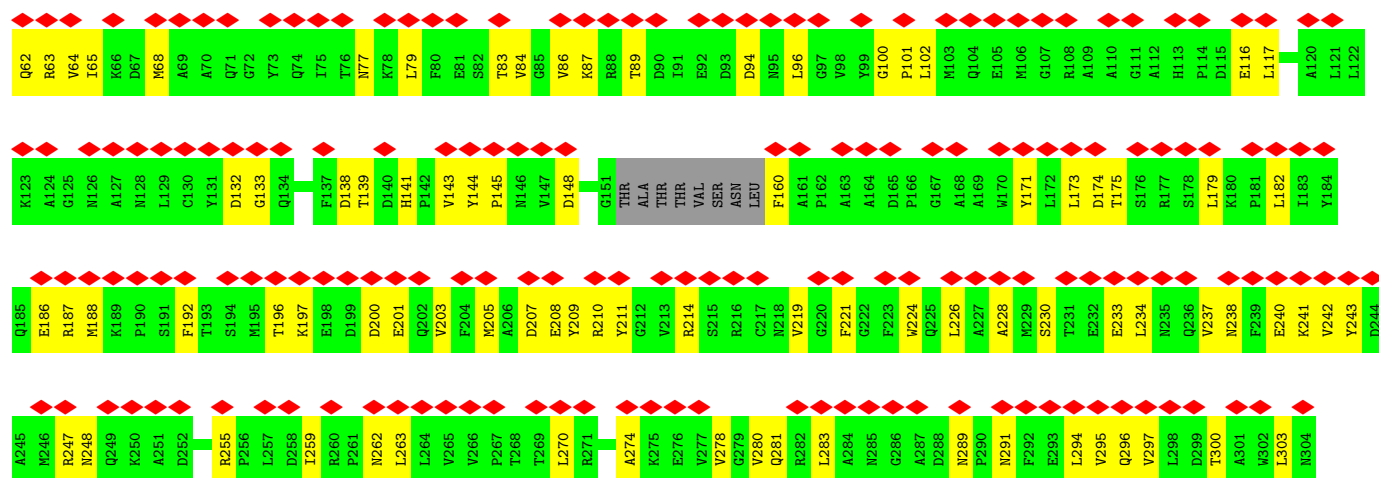


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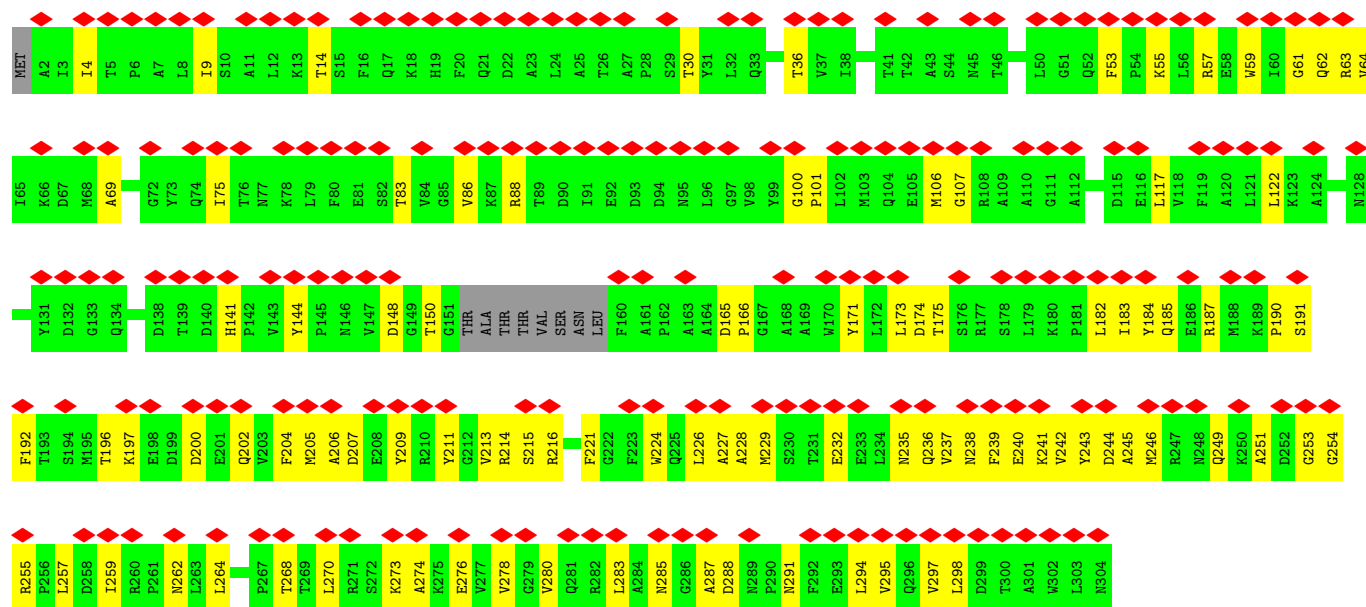


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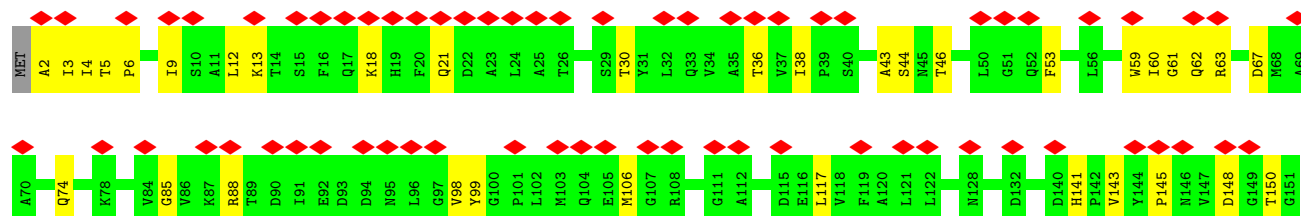


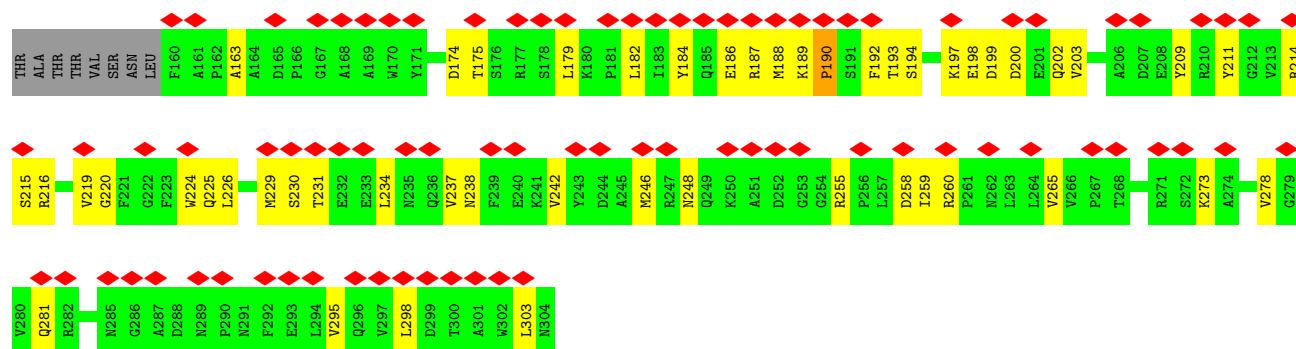


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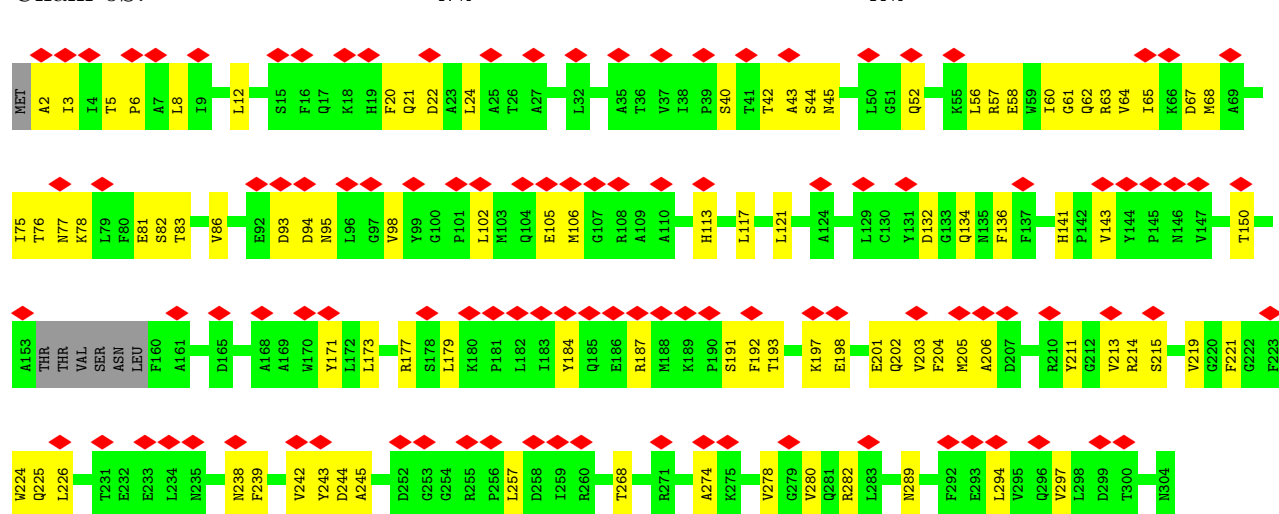


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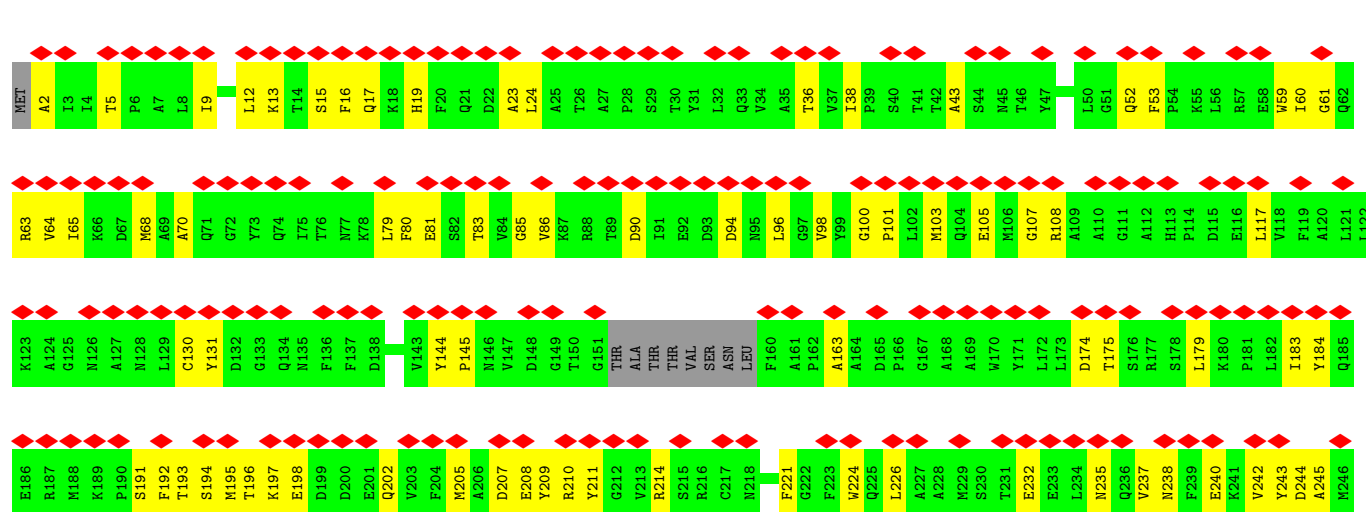


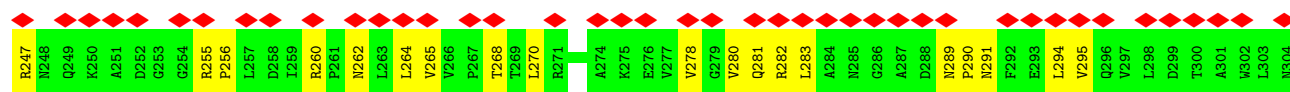


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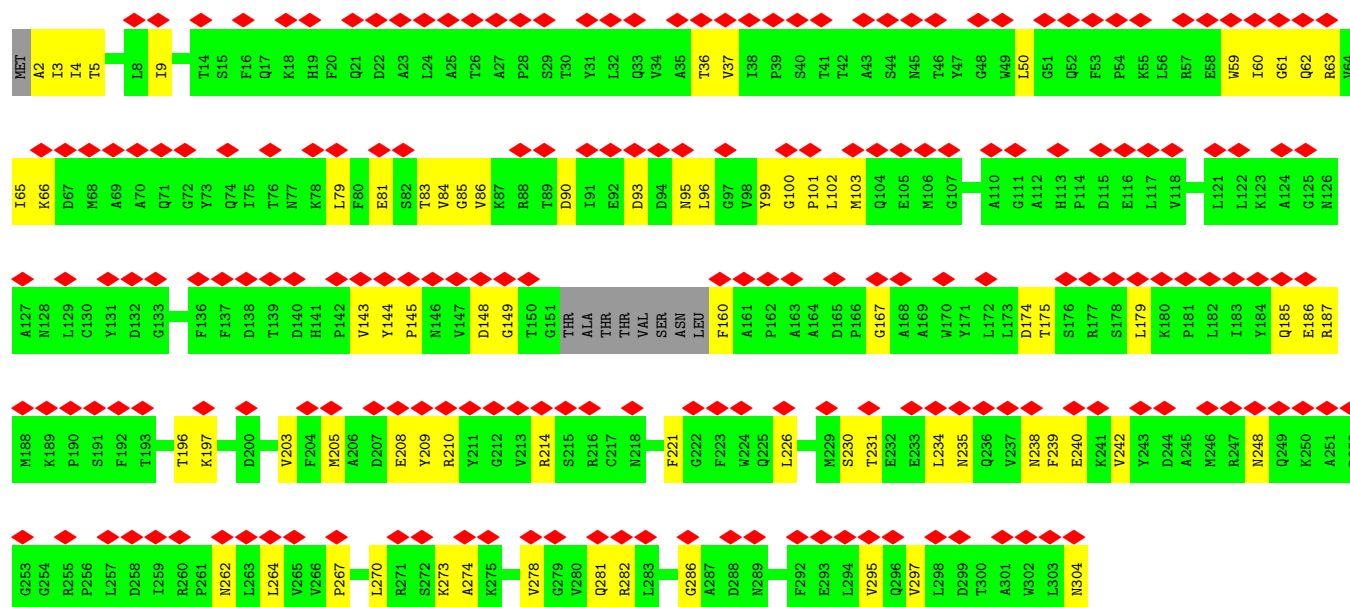
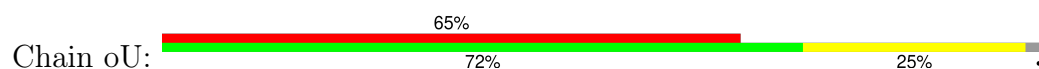


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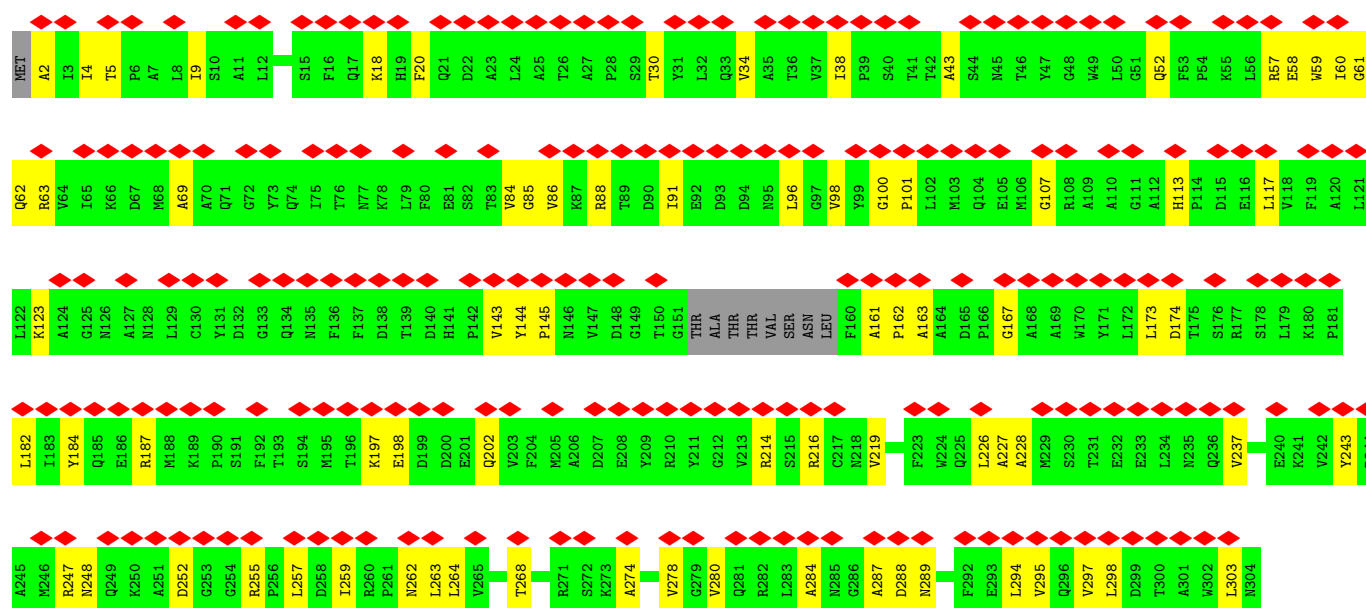




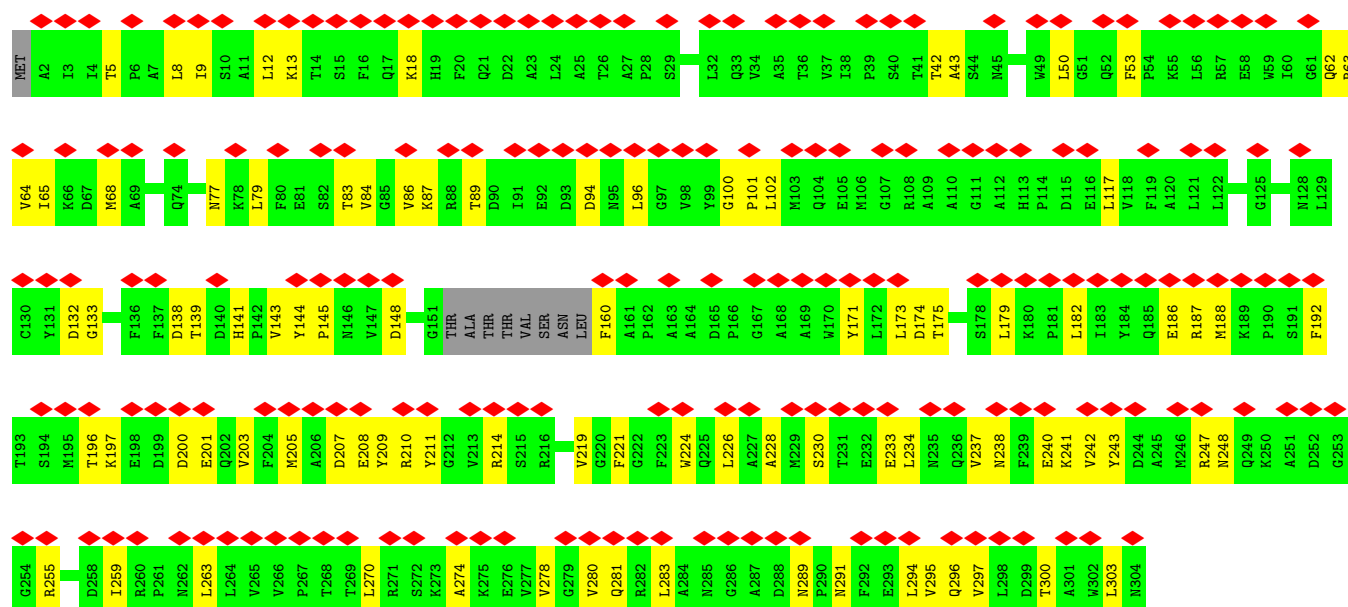
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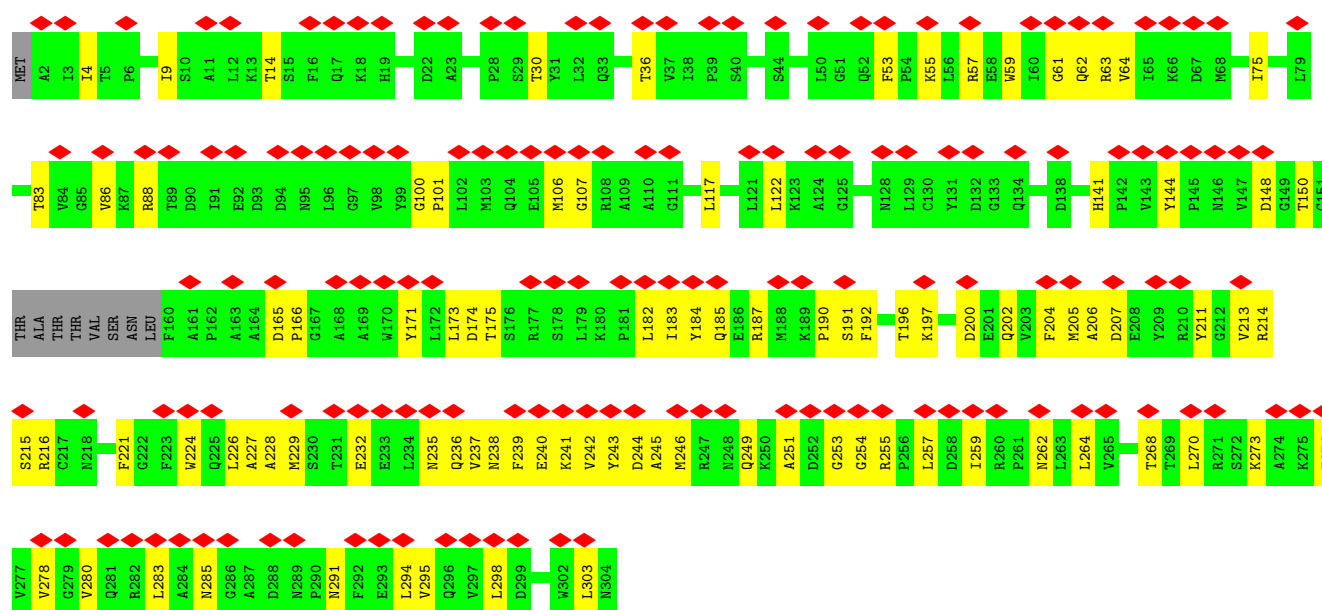
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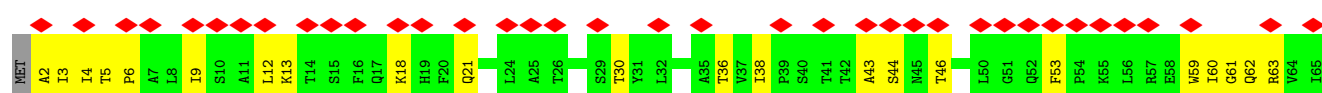
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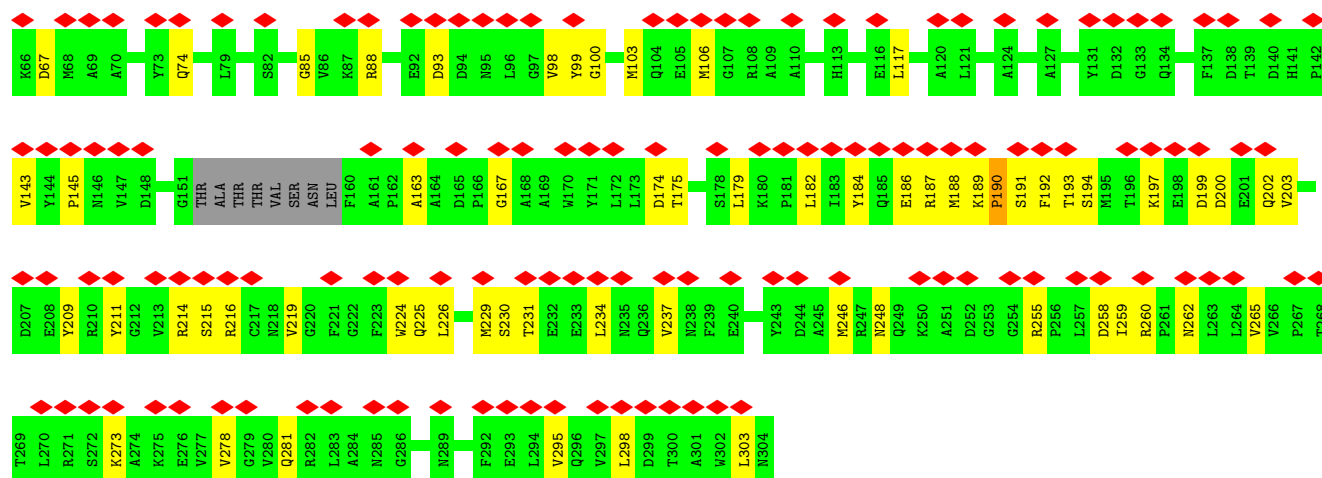


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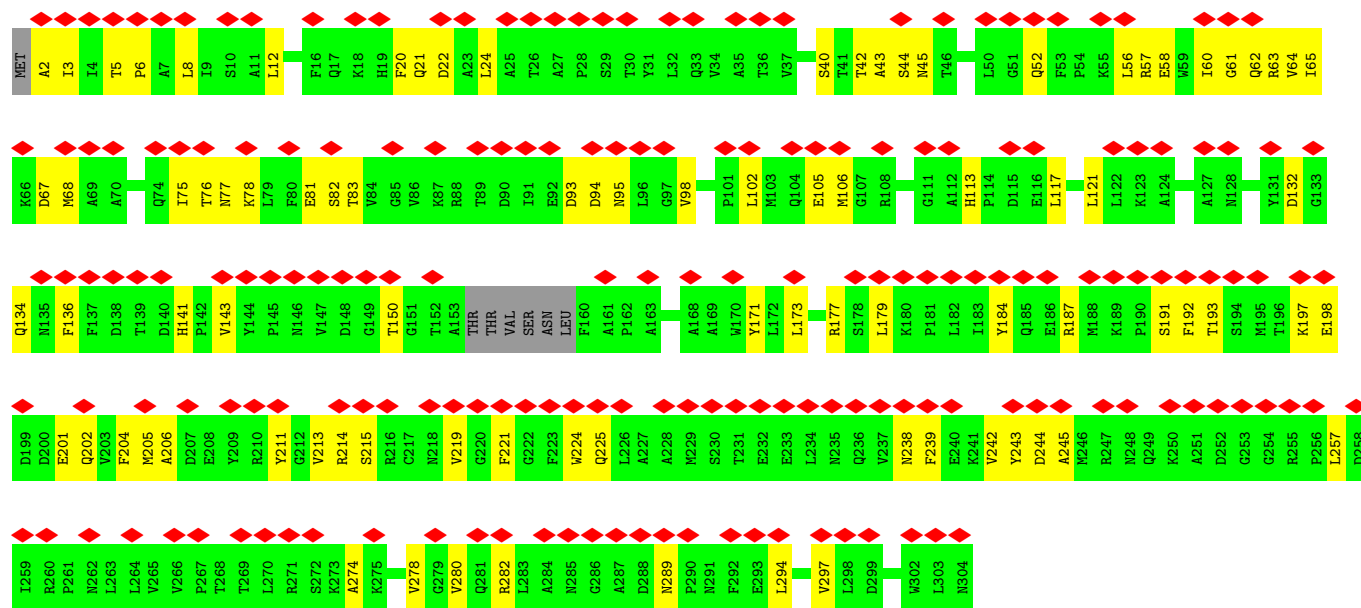


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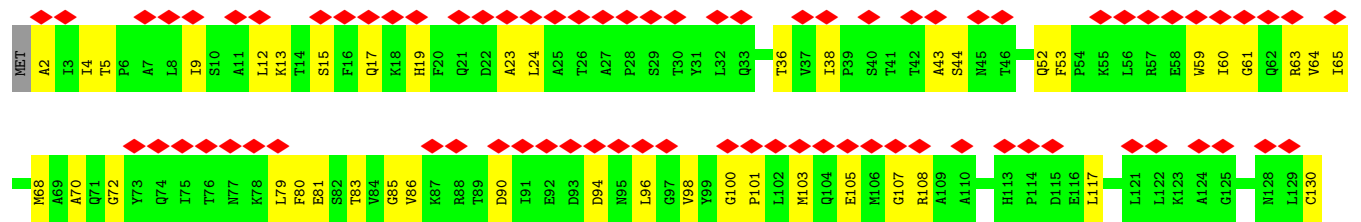


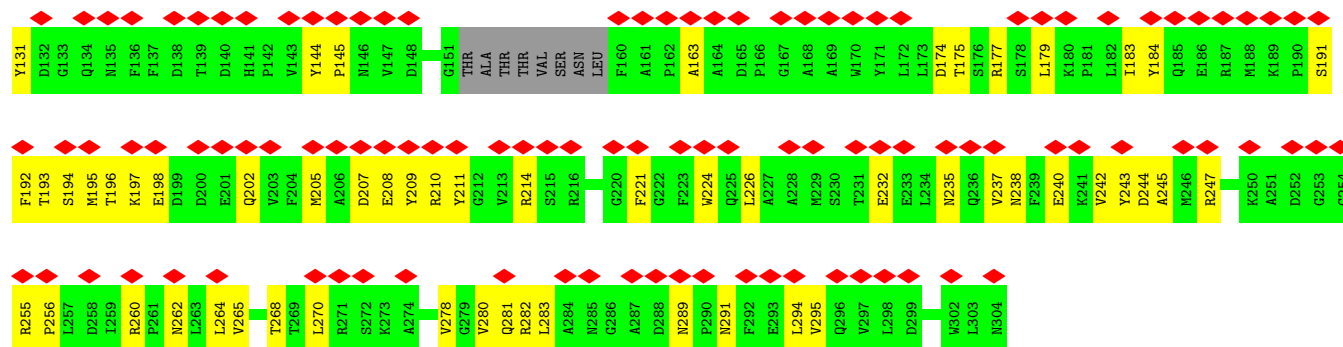


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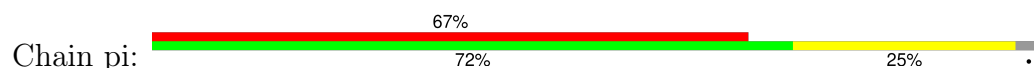


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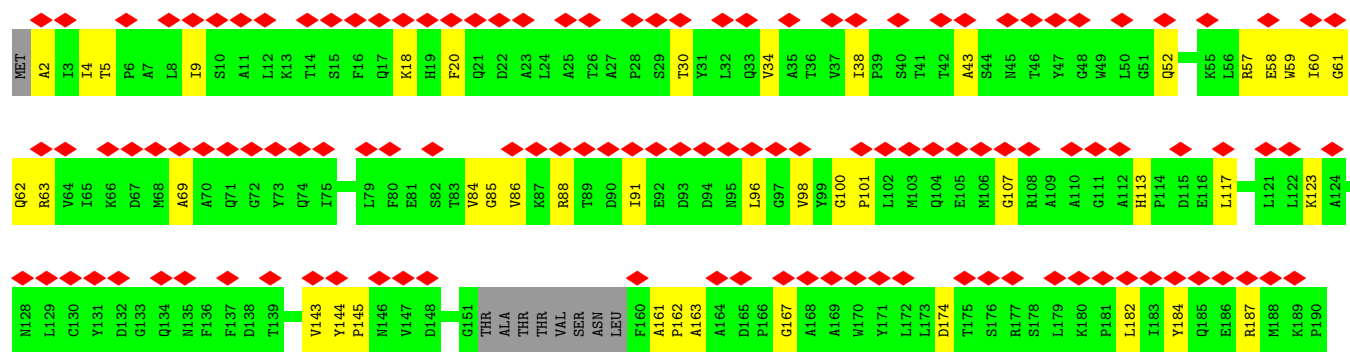
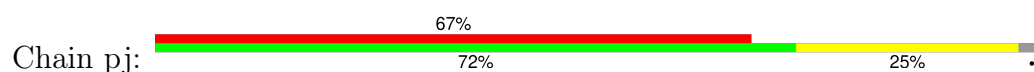


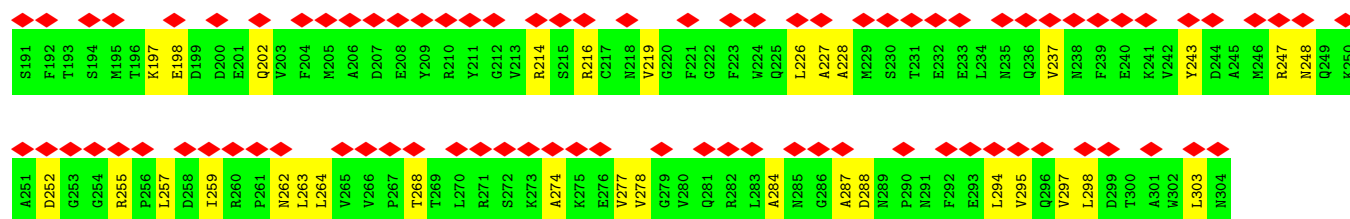


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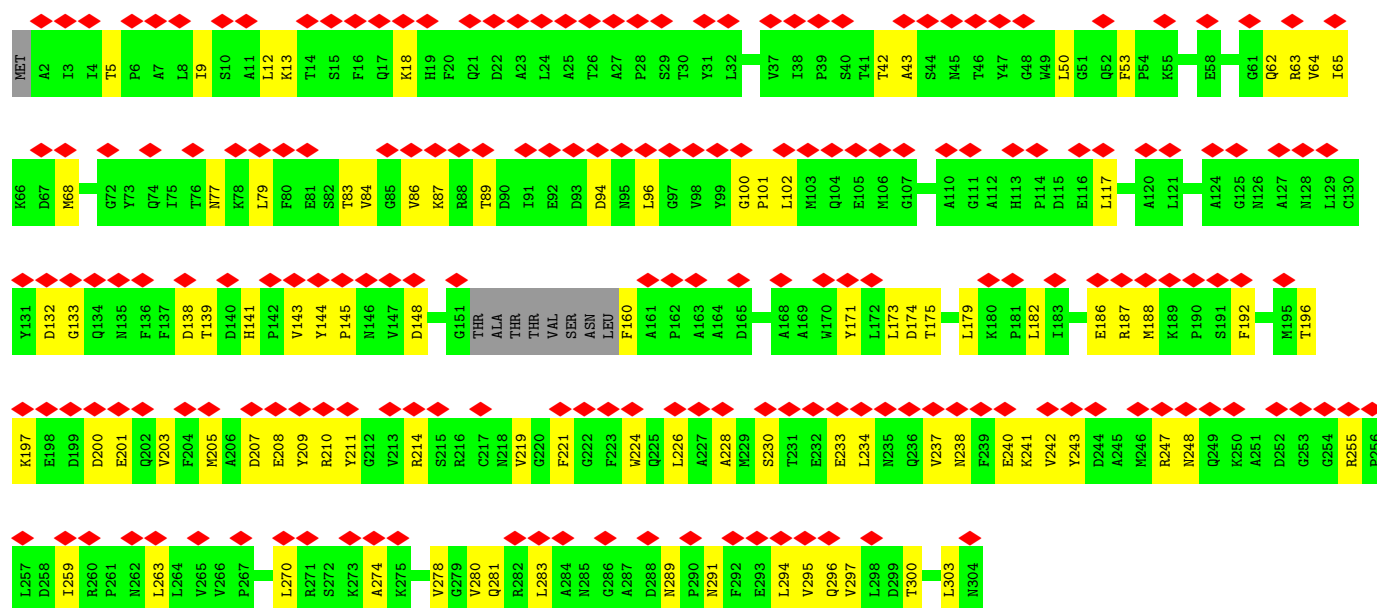


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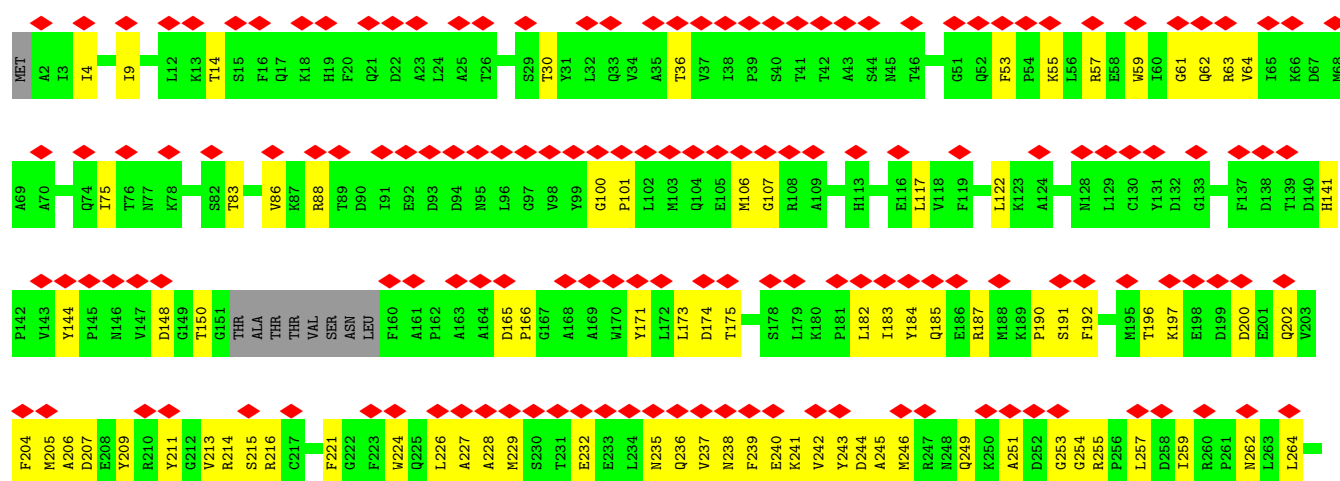


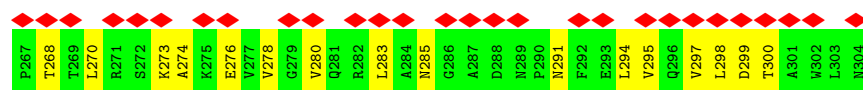


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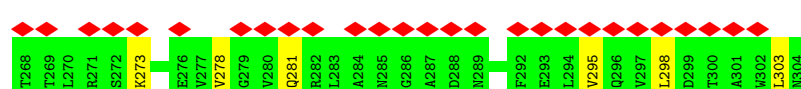
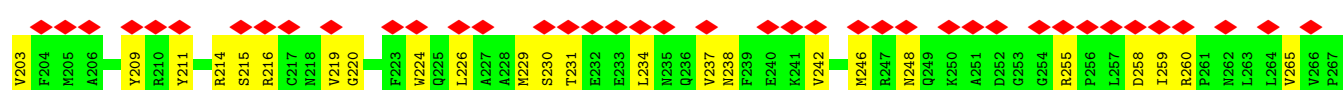
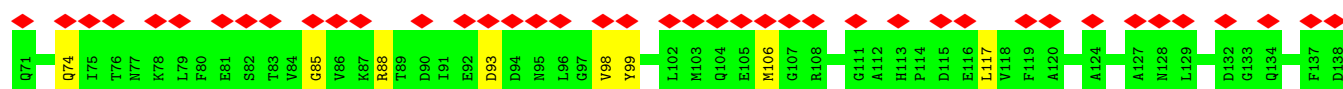
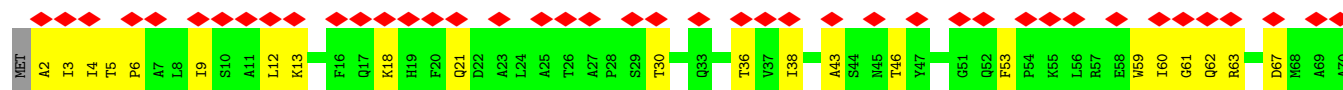
• Molecule 2: Bacteriophage Mu GpT domain-containing protein





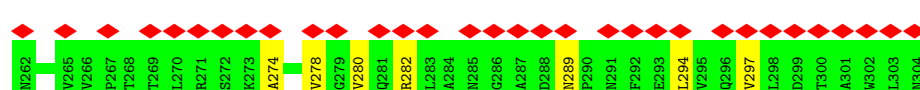
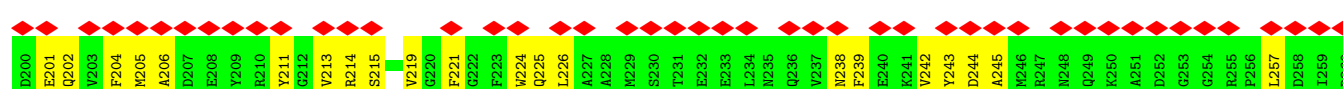
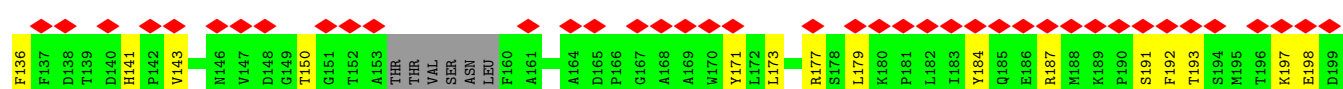
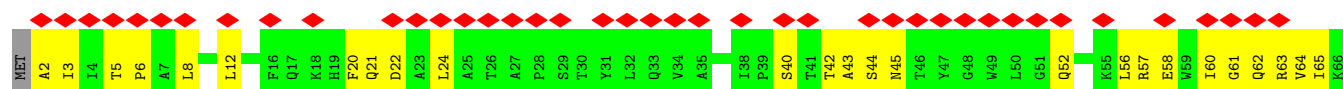
• Molecule 2: Bacteriophage Mu GpT domain-containing protein

Chain pt:

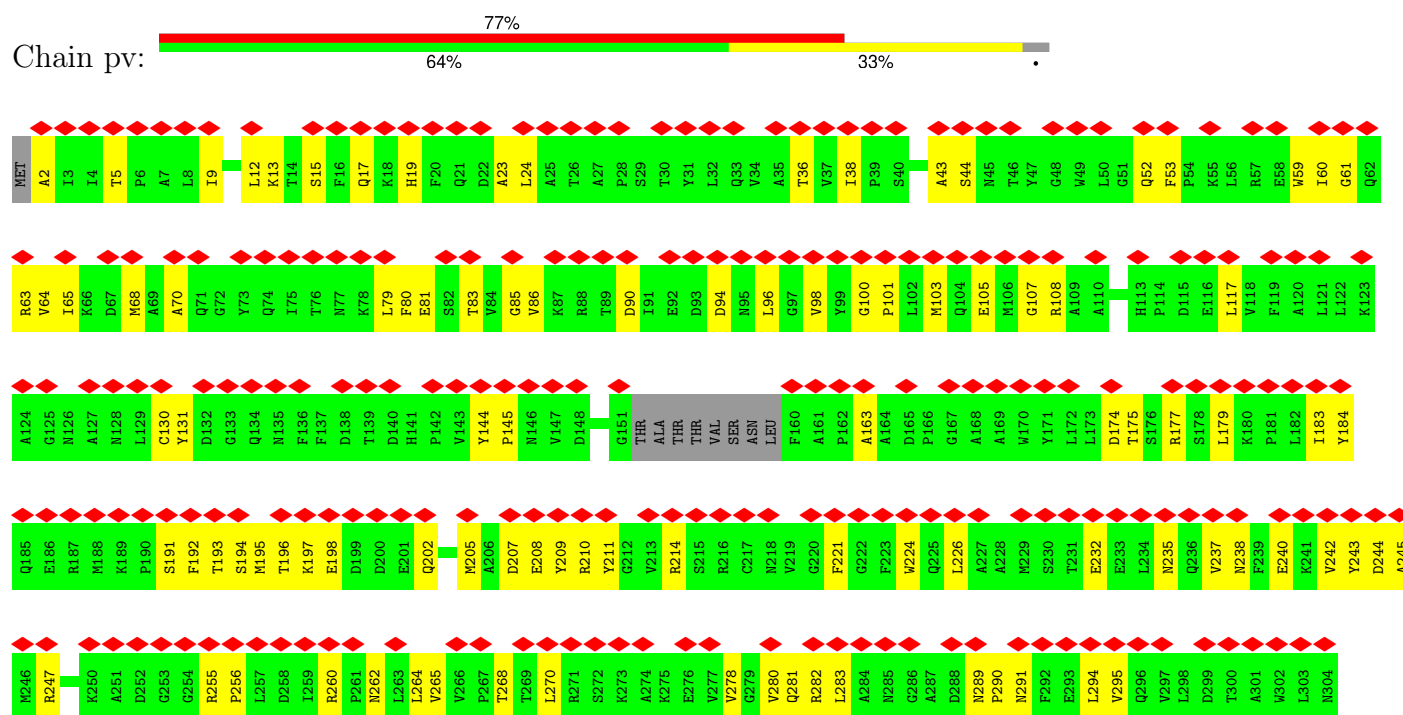


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

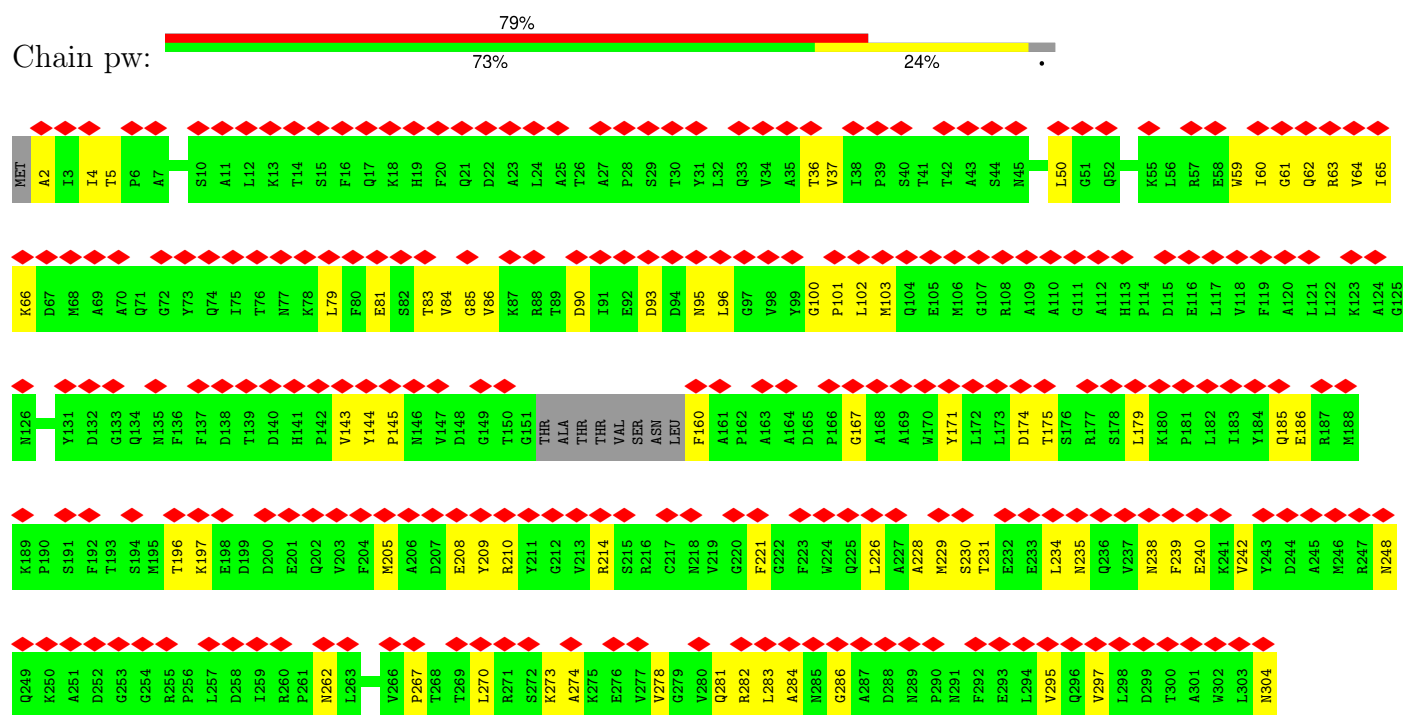
Chain pu:



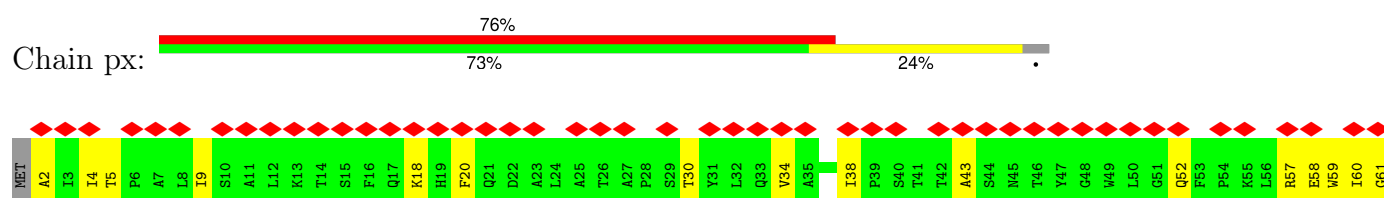
• Molecule 2: Bacteriophage Mu GpT domain-containing protein

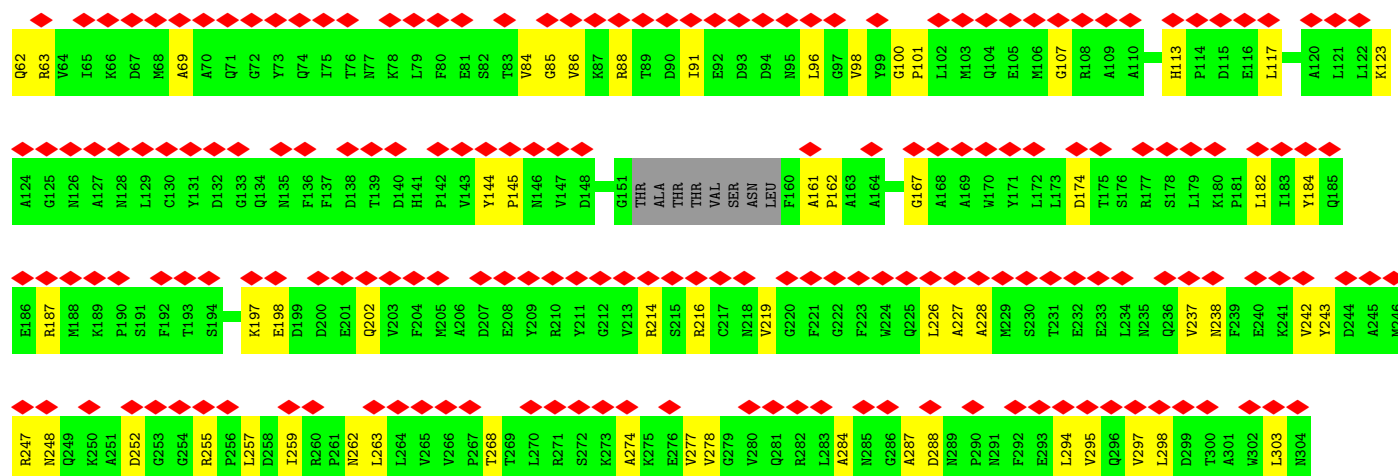


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

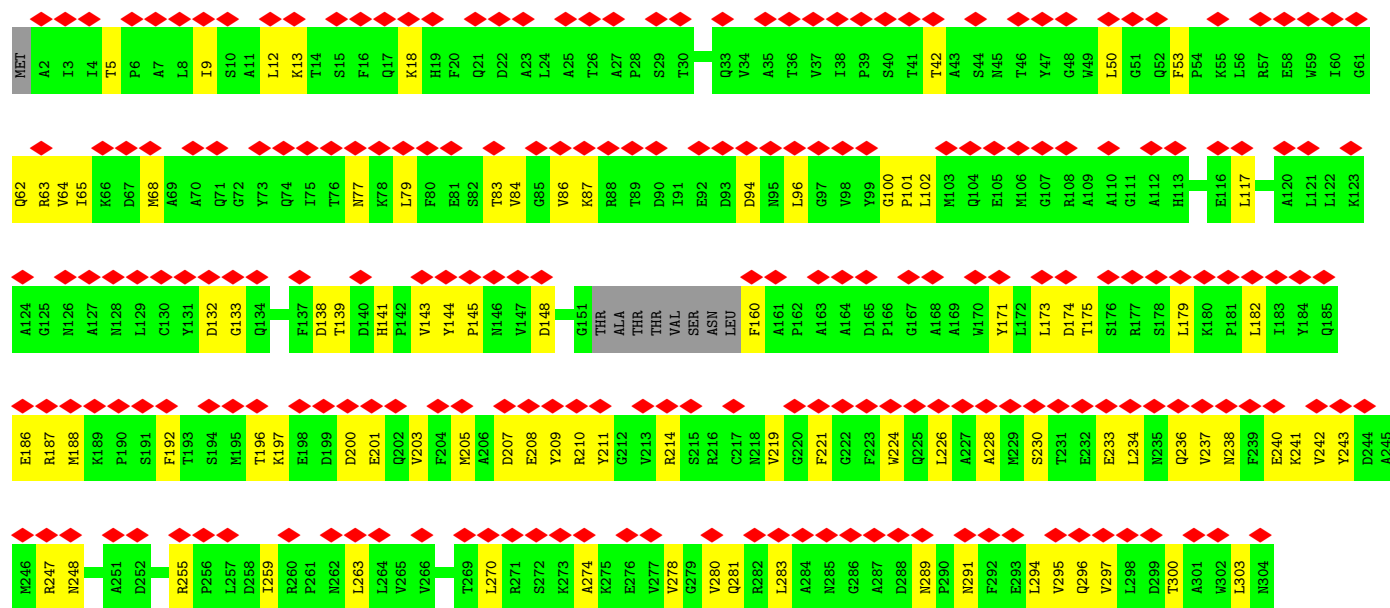
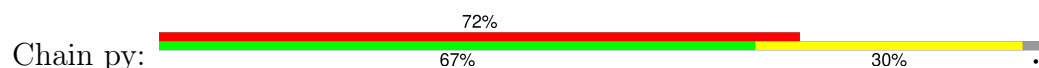


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

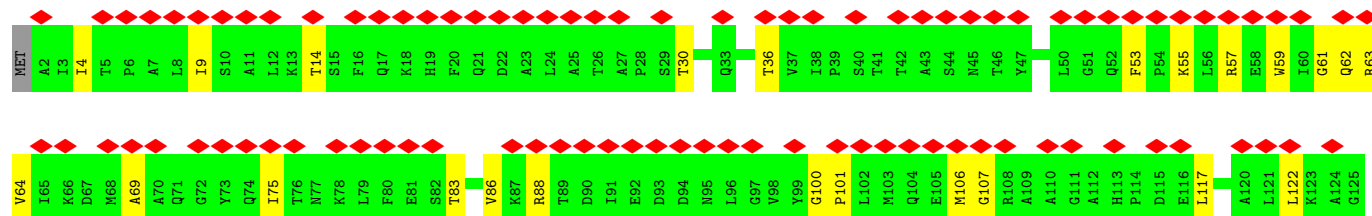
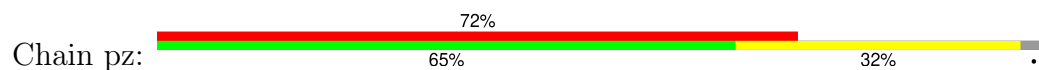


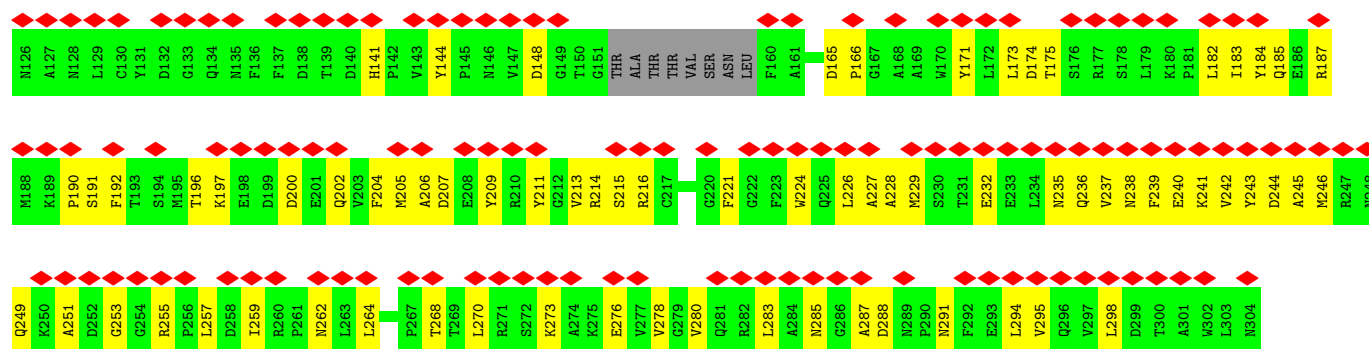


• Molecule 2: Bacteriophage Mu GpT domain-containing protein



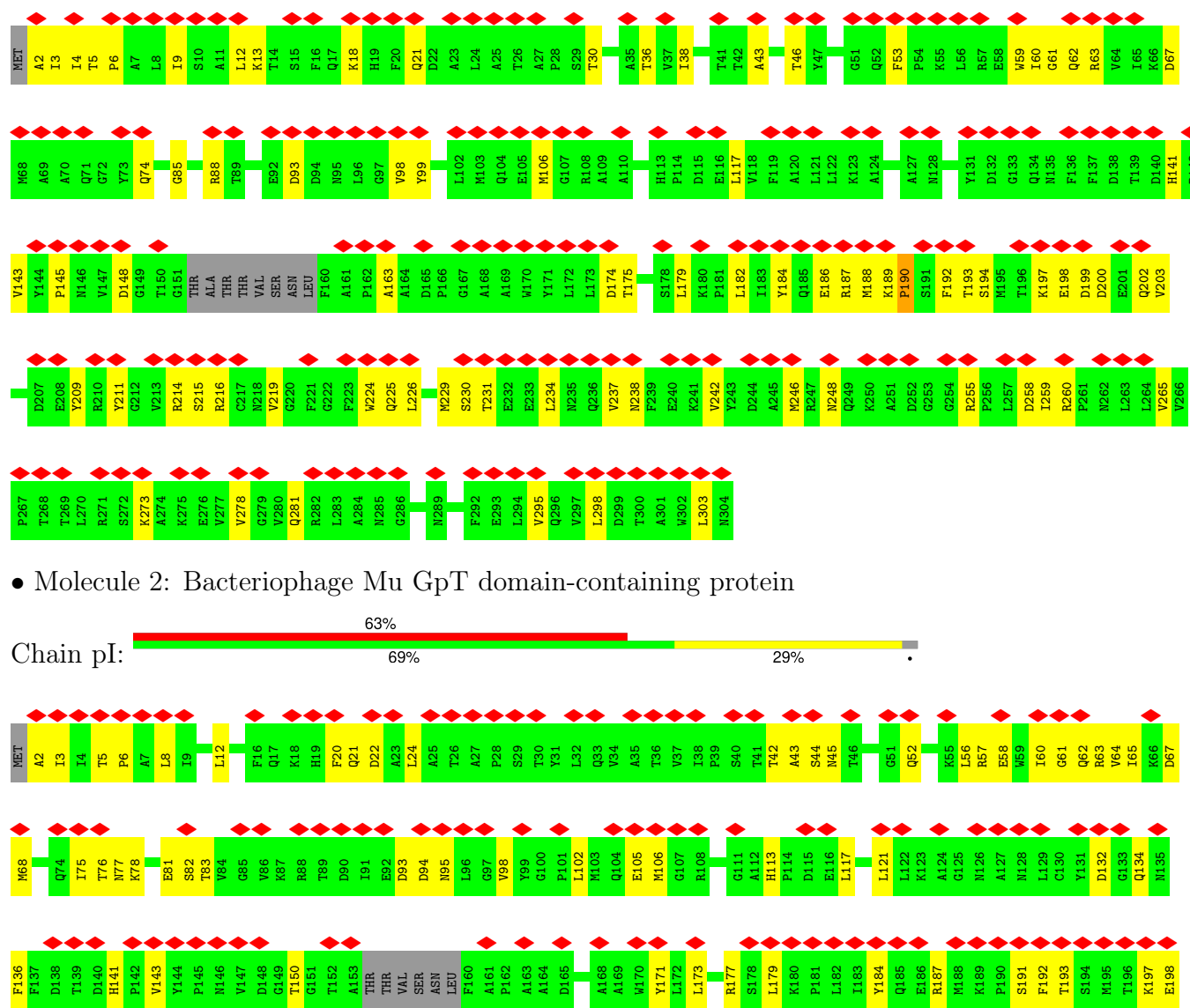
• Molecule 2: Bacteriophage Mu GpT domain-containing protein





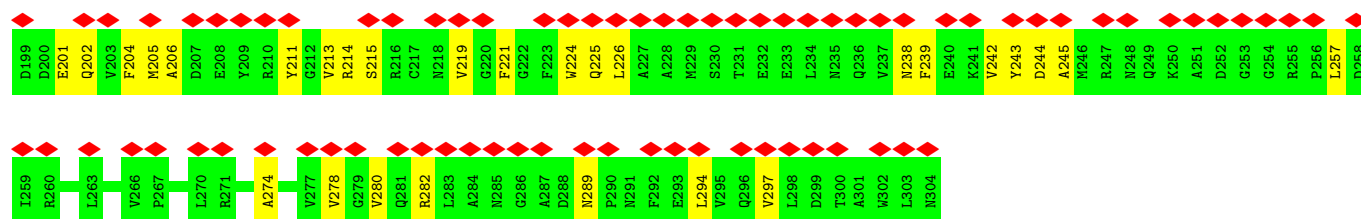
• Molecule 2: Bacteriophage Mu GpT domain-containing protein

Chain pH: 62% 70% 27%

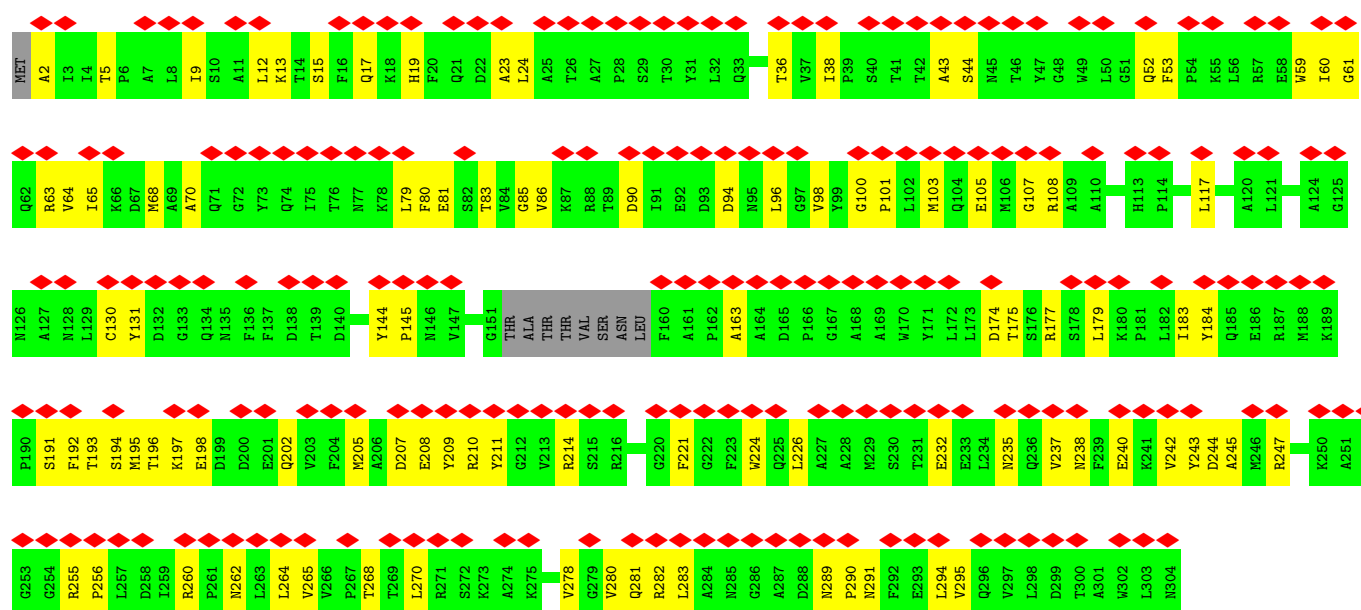


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

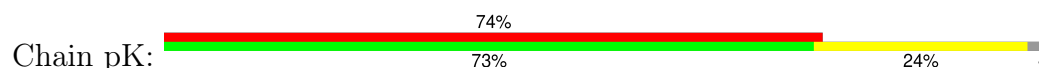
Chain pH: 63% 69% 29%



• Molecule 2: Bacteriophage Mu GpT domain-containing protein

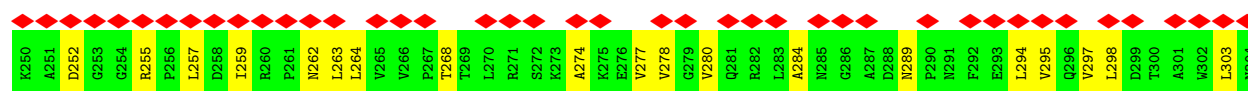
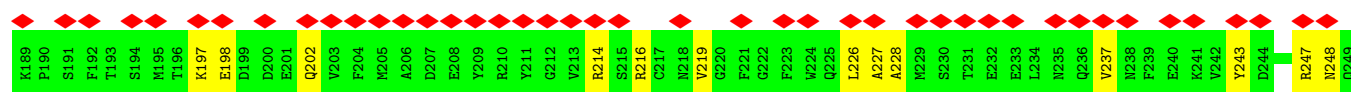
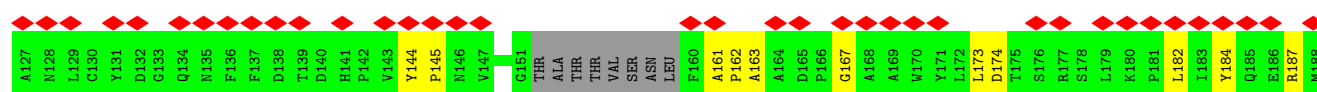
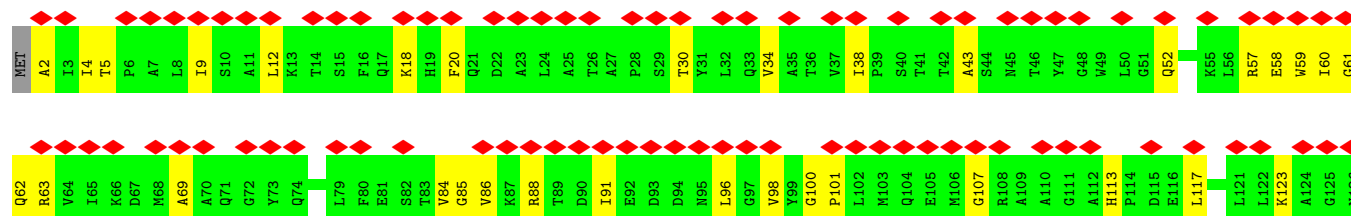
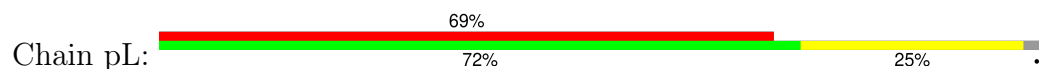


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

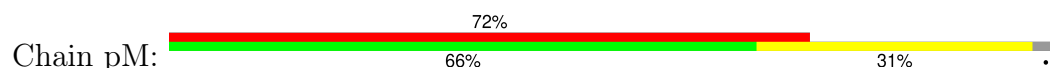




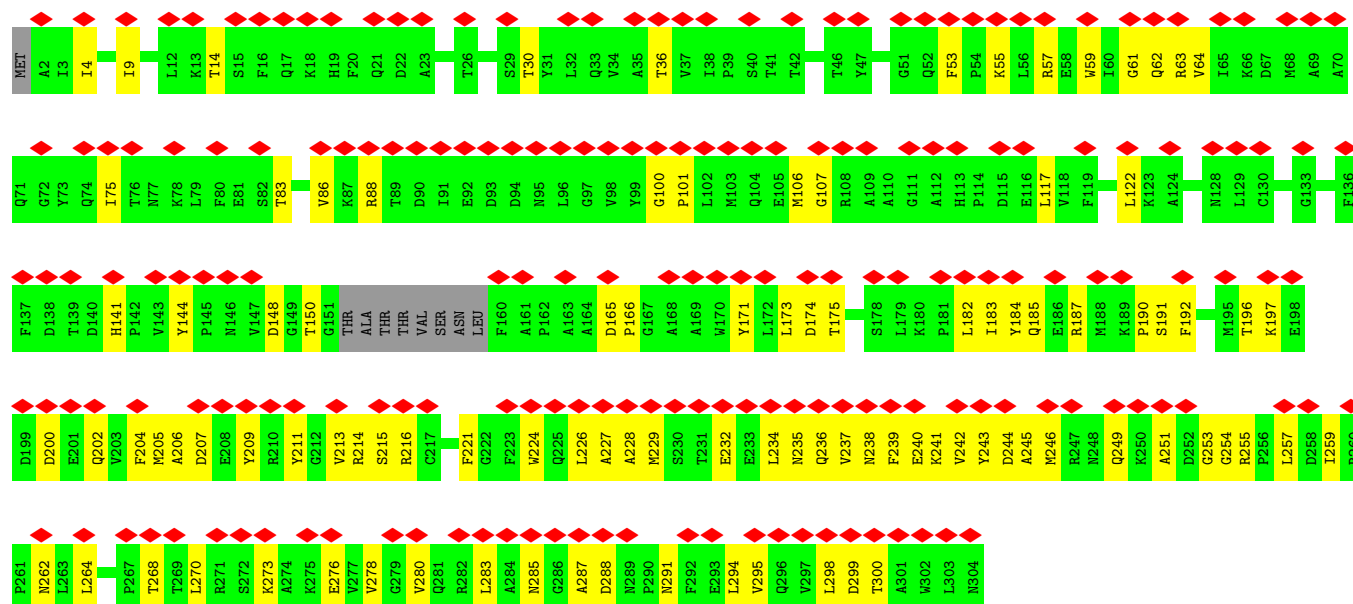
• Molecule 2: Bacteriophage Mu GpT domain-containing protein



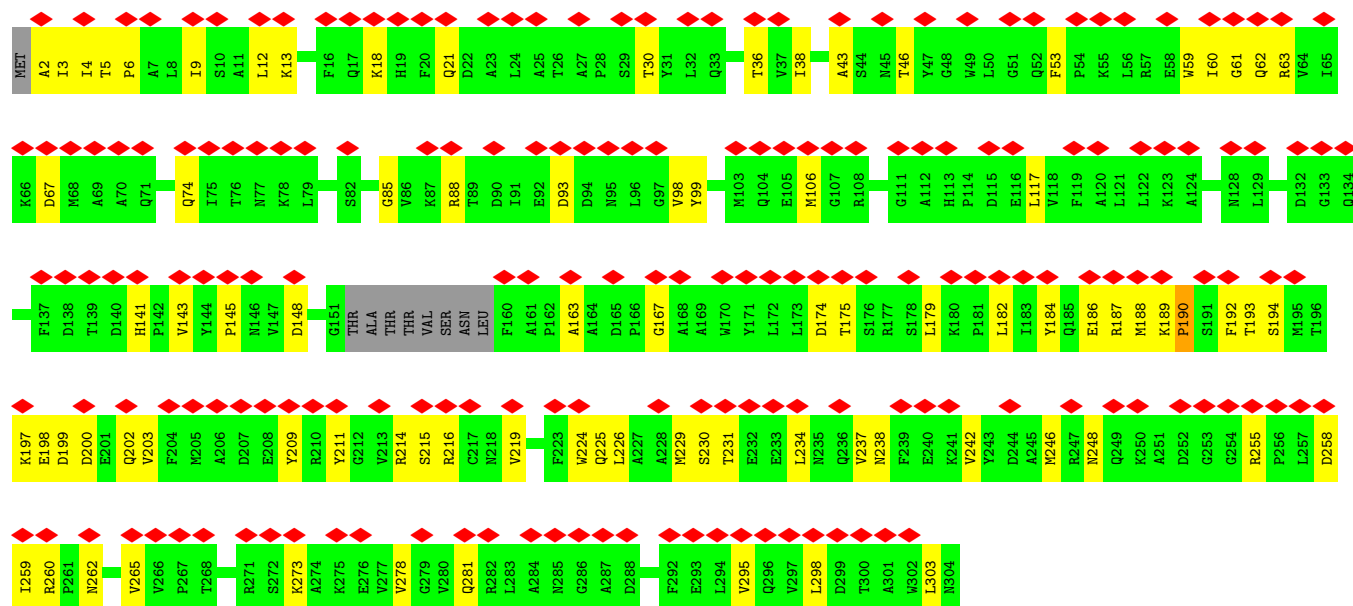
• Molecule 2: Bacteriophage Mu GpT domain-containing protein



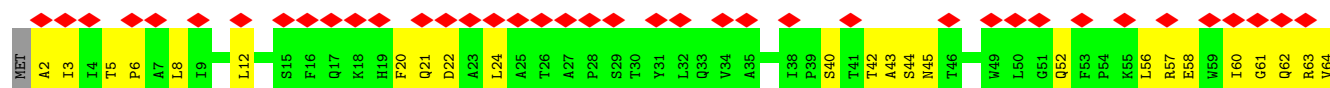
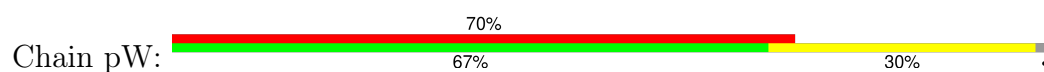
• Molecule 2: Bacteriophage Mu GpT domain-containing protein

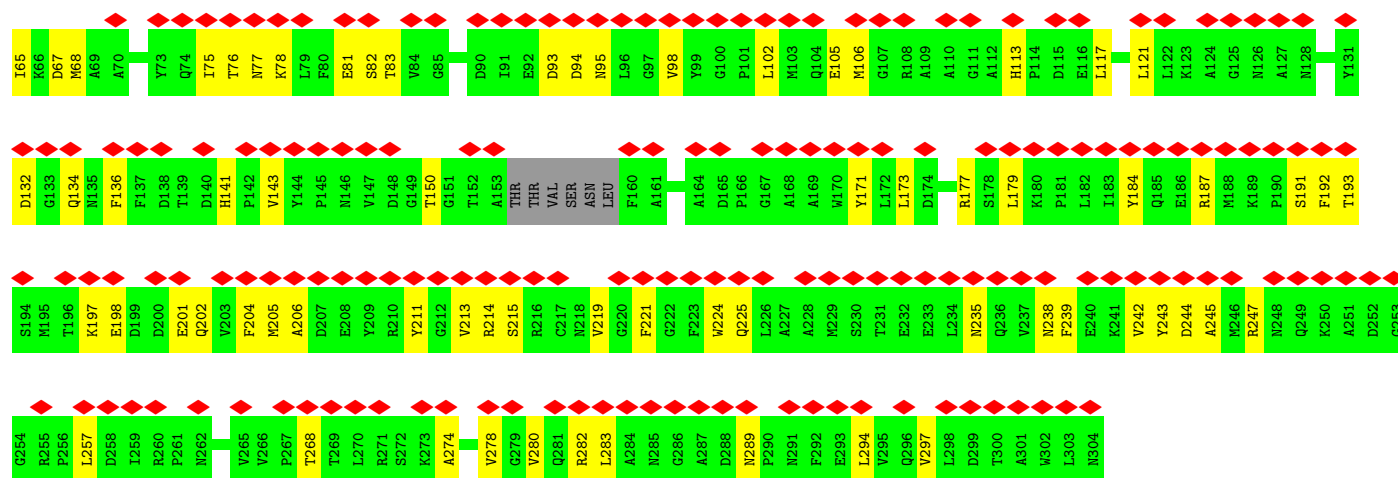


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

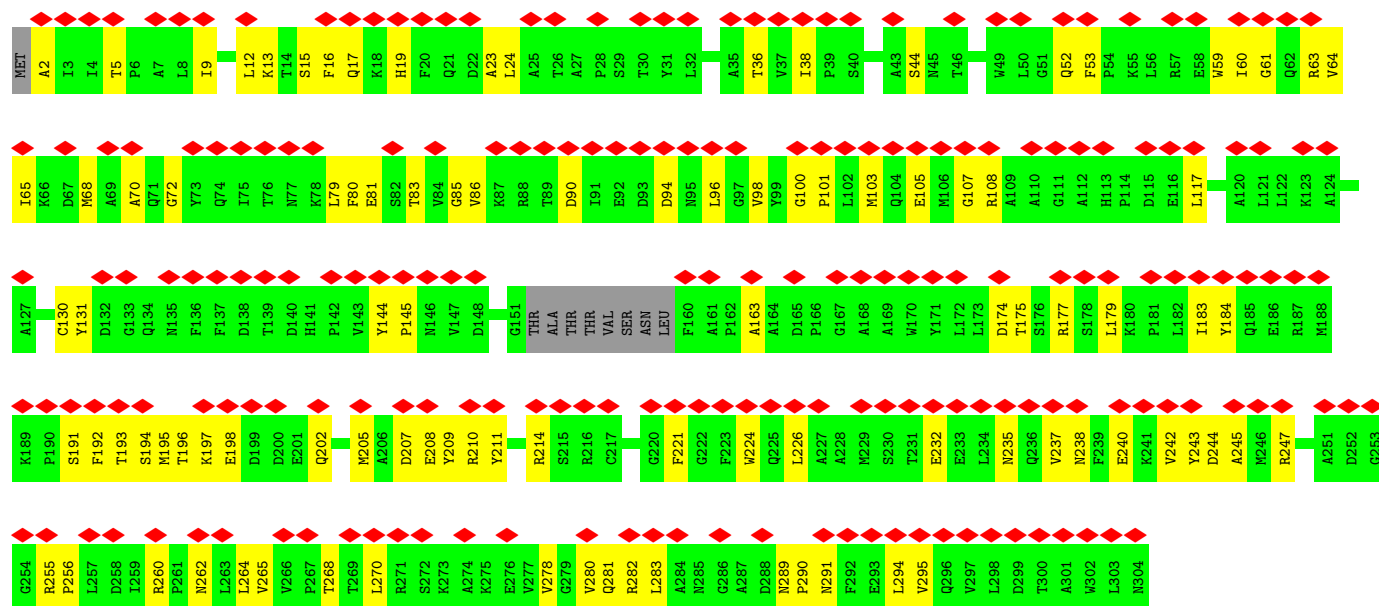


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

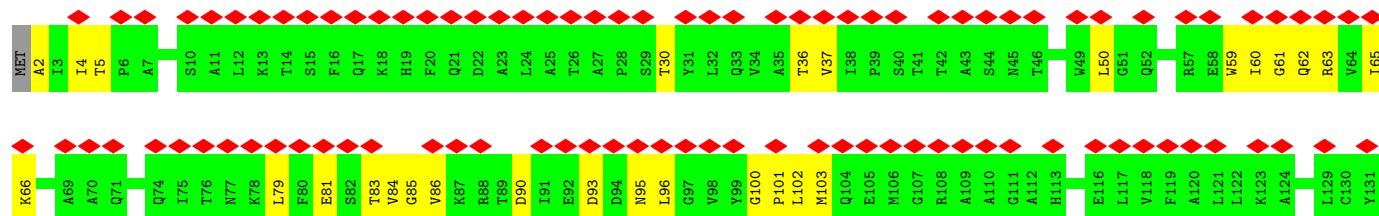
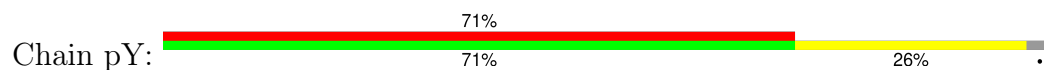


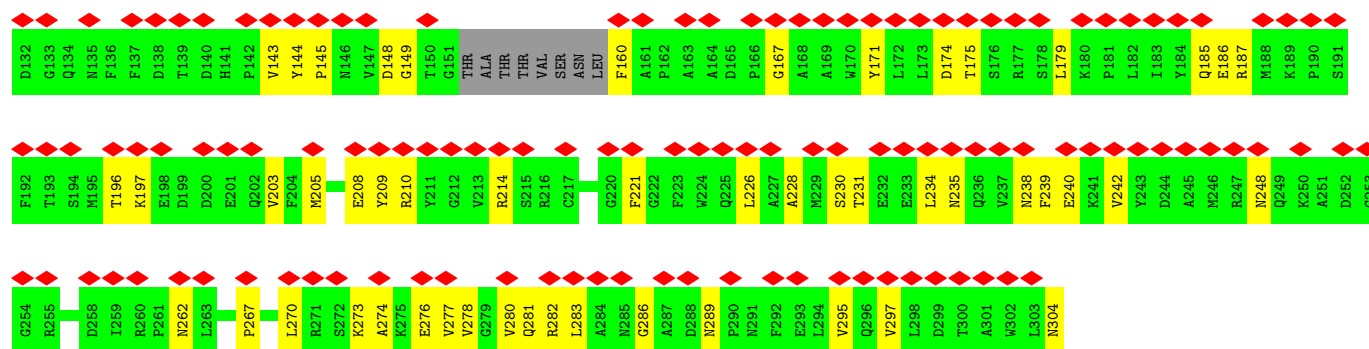


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

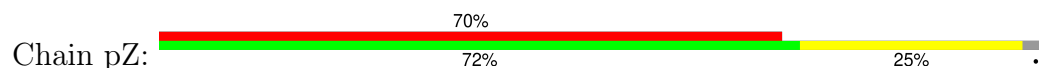


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

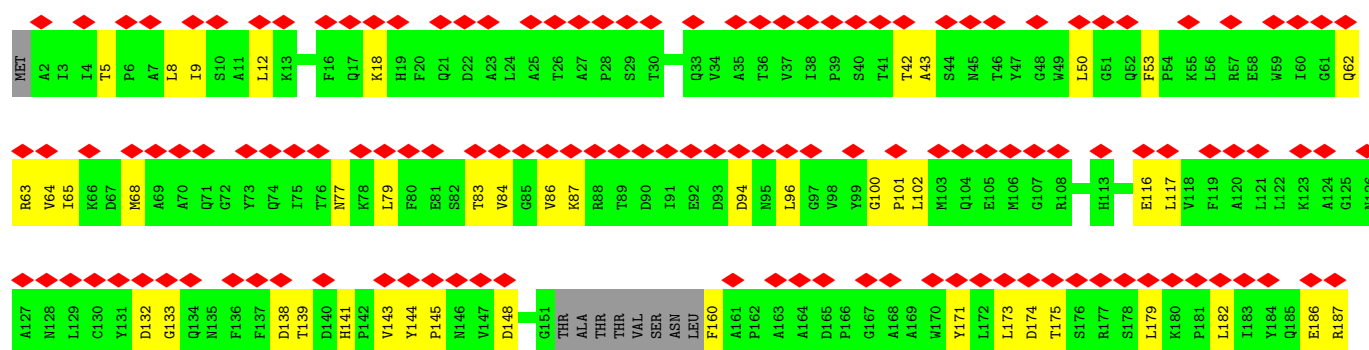
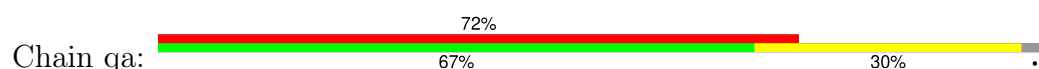


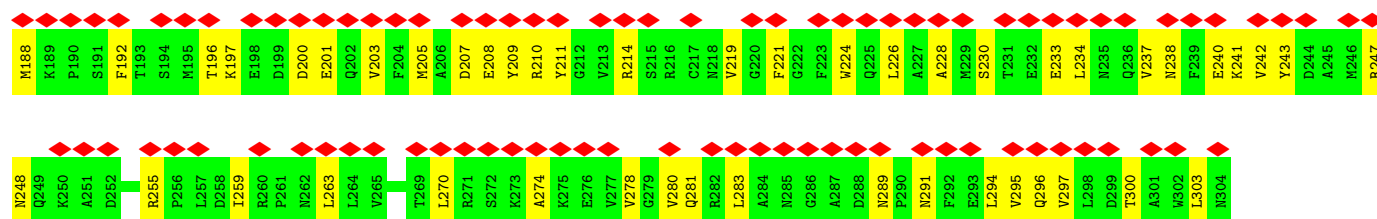


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

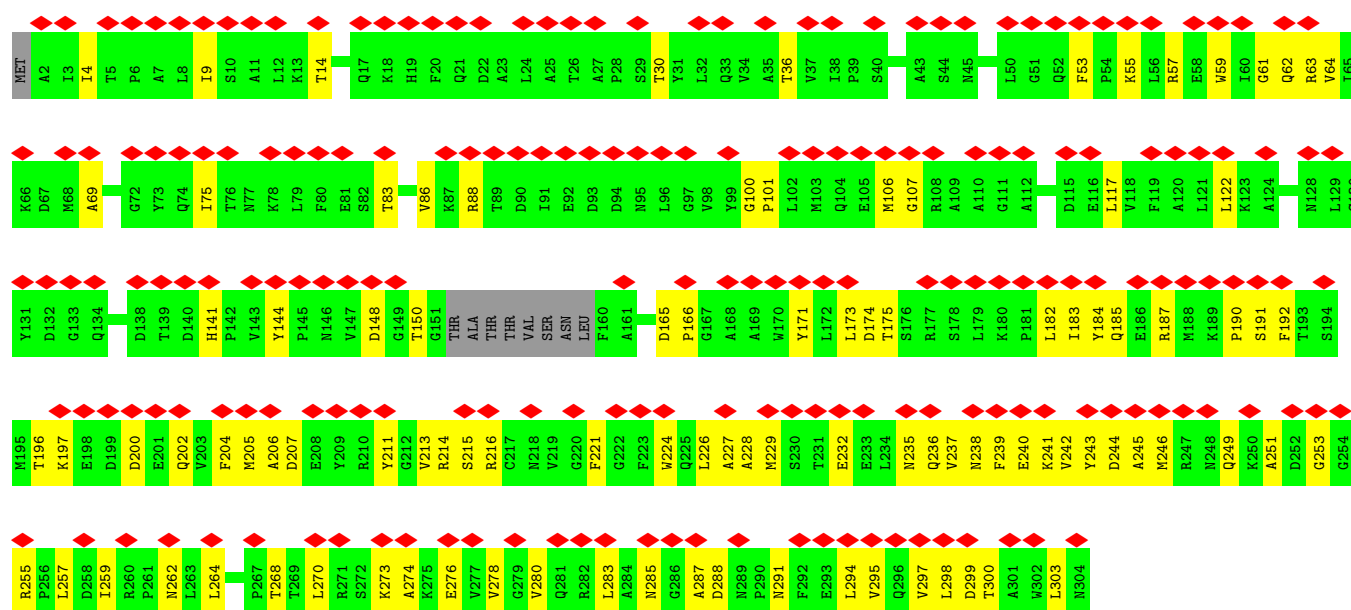


• Molecule 2: Bacteriophage Mu GpT domain-containing protein

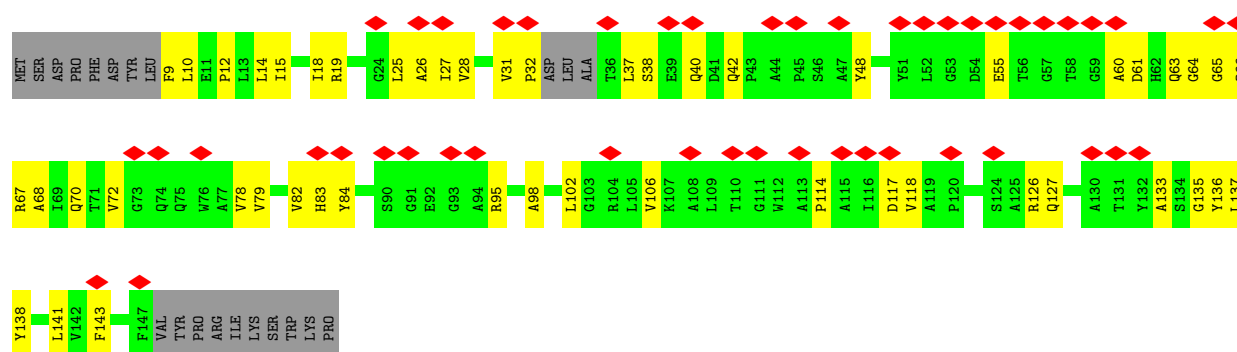




• Molecule 2: Bacteriophage Mu GpT domain-containing protein

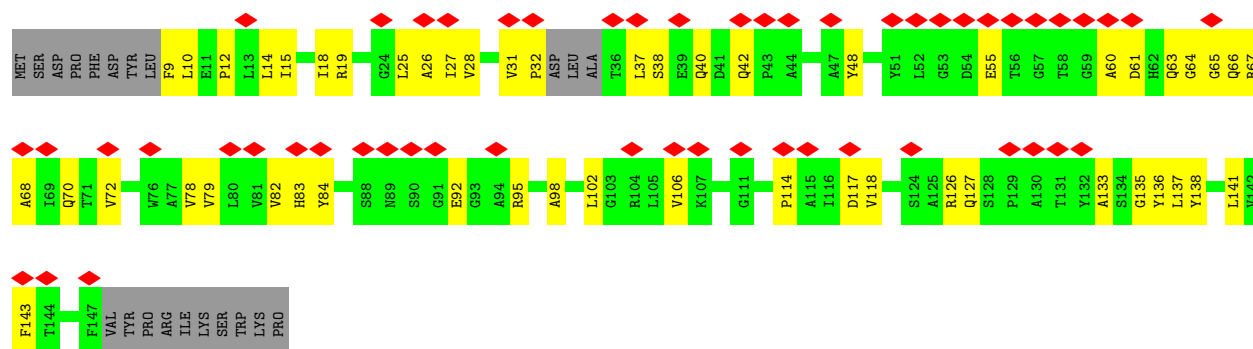


• Molecule 3: Stopper protein

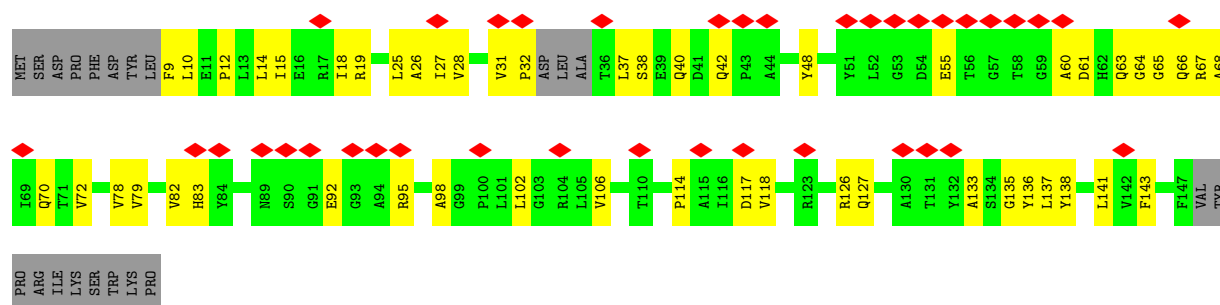


• Molecule 3: Stopper protein

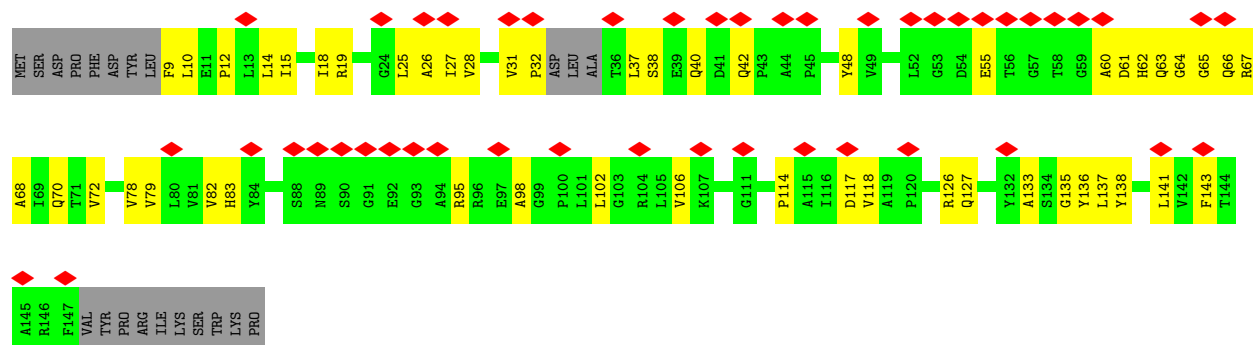




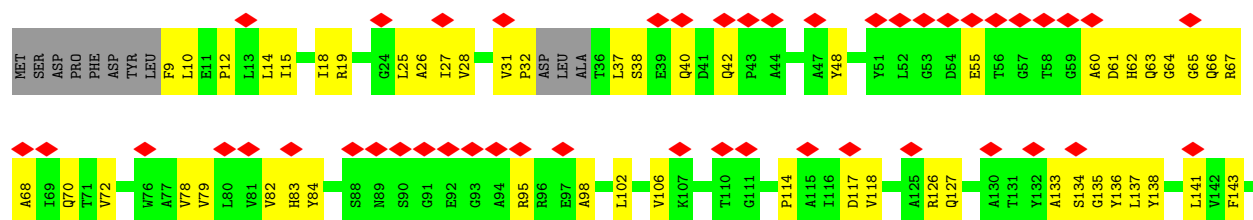
• Molecule 3: Stopper protein

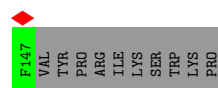


• Molecule 3: Stopper protein

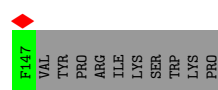
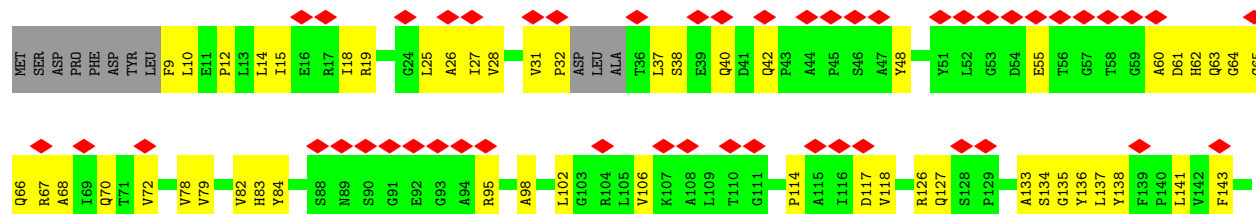


• Molecule 3: Stopper protein

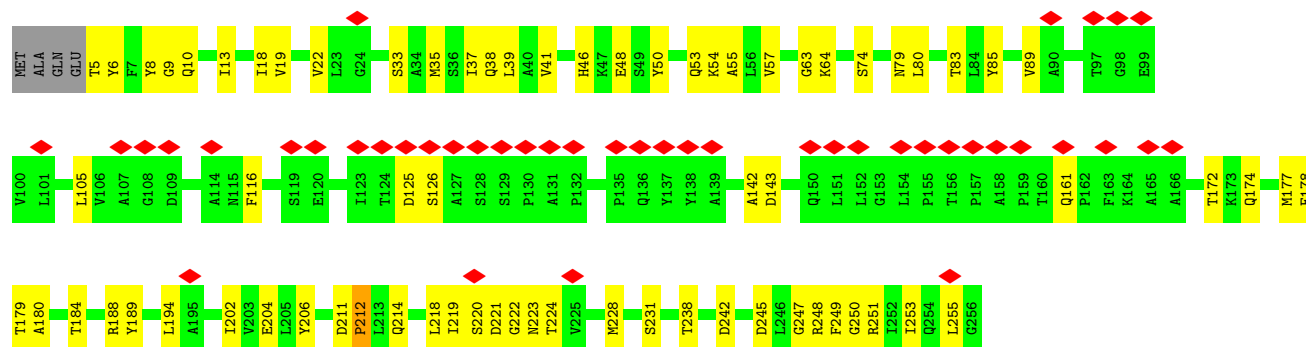




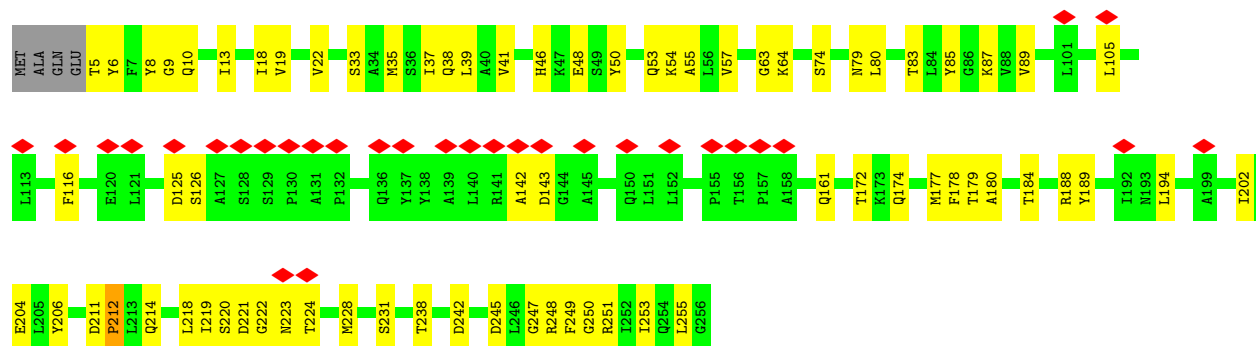
- Molecule 3: Stopper protein



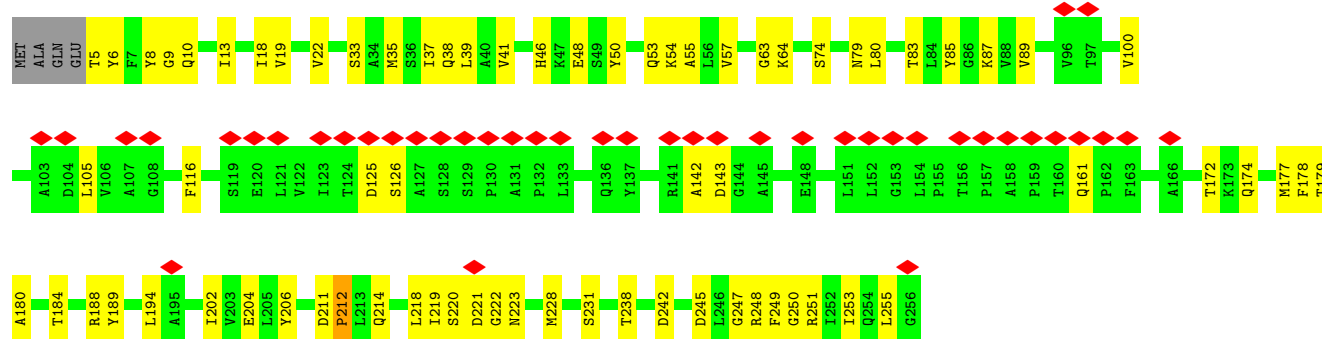
- Molecule 4: Virion structural protein



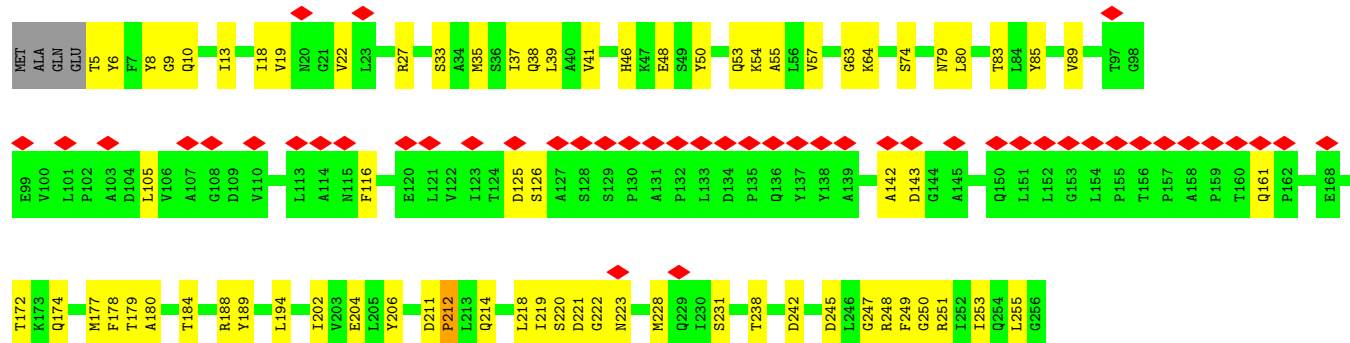
- Molecule 4: Virion structural protein



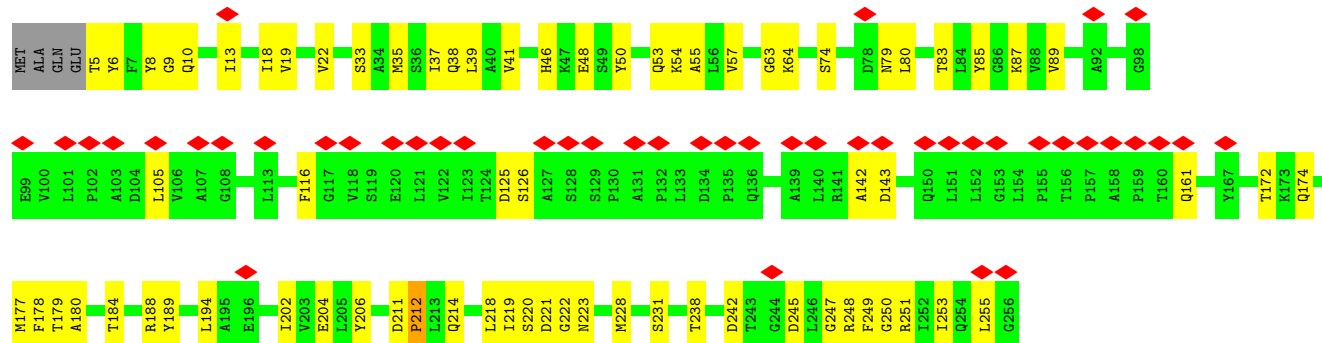
- Molecule 4: Virion structural protein



• Molecule 4: Virion structural protein

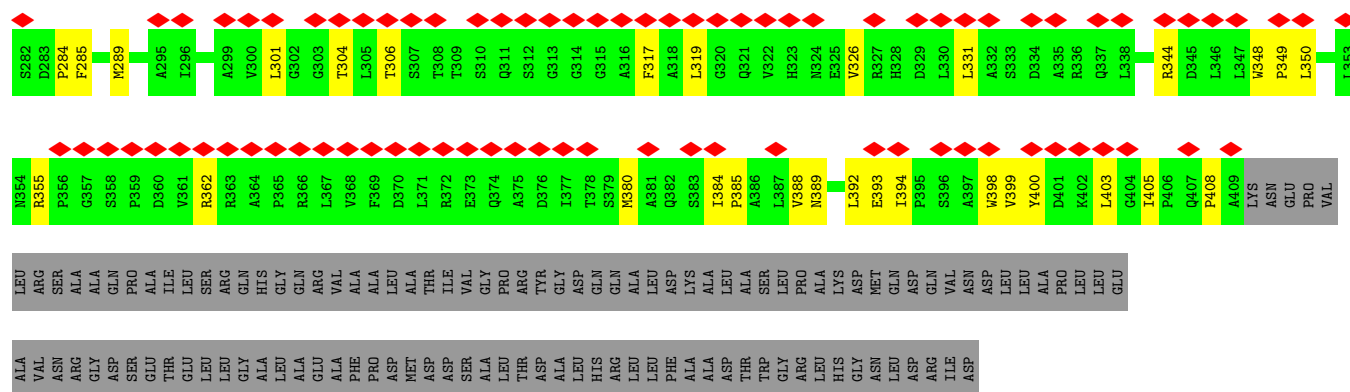


• Molecule 4: Virion structural protein

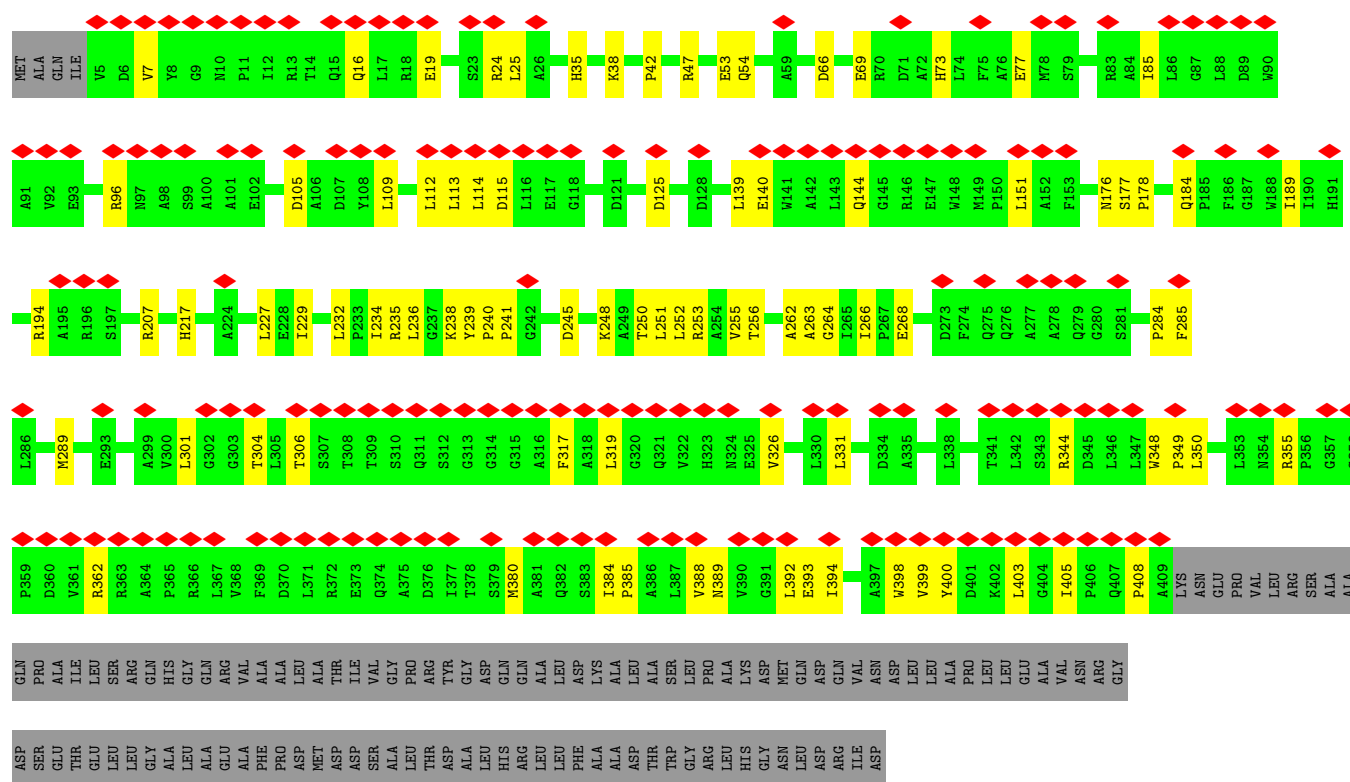


• Molecule 4: Virion structural protein

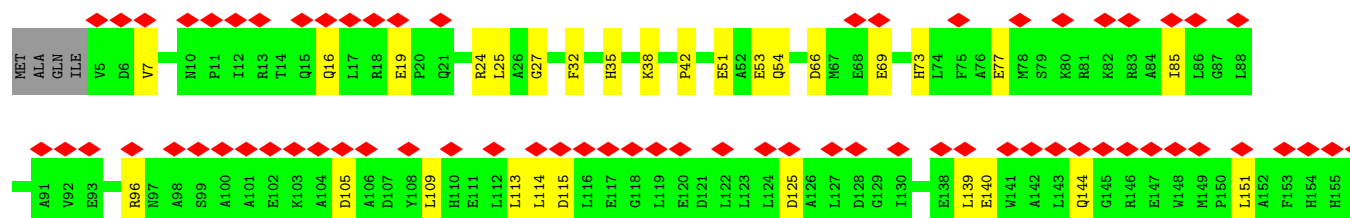


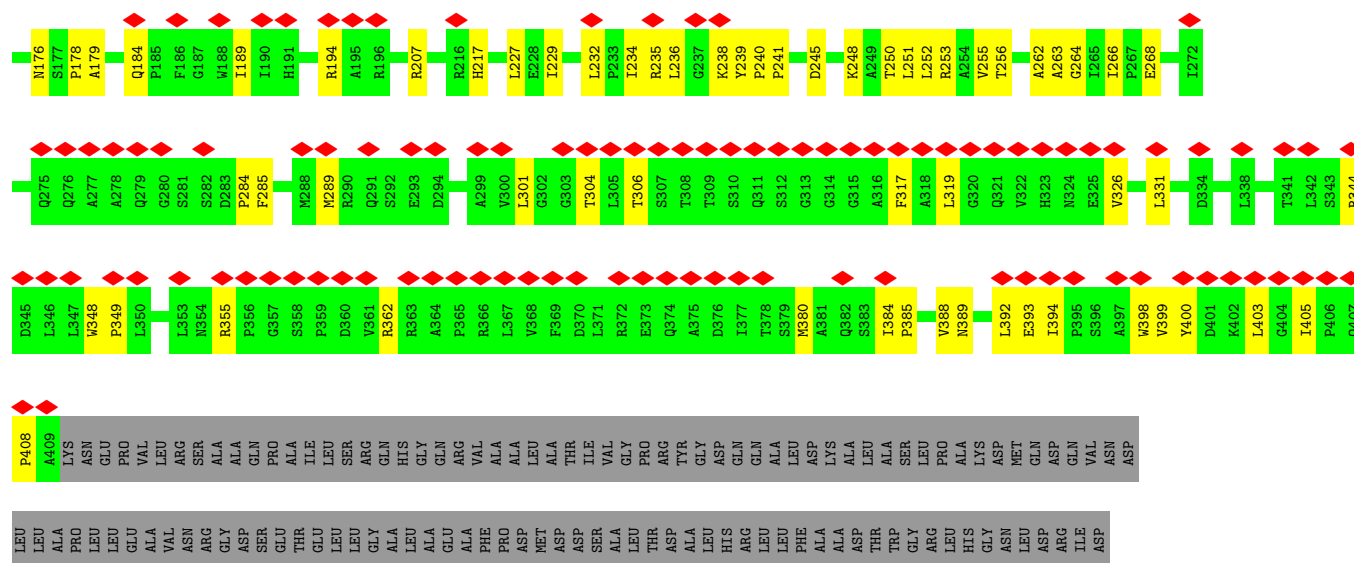


• Molecule 5: Portal protein

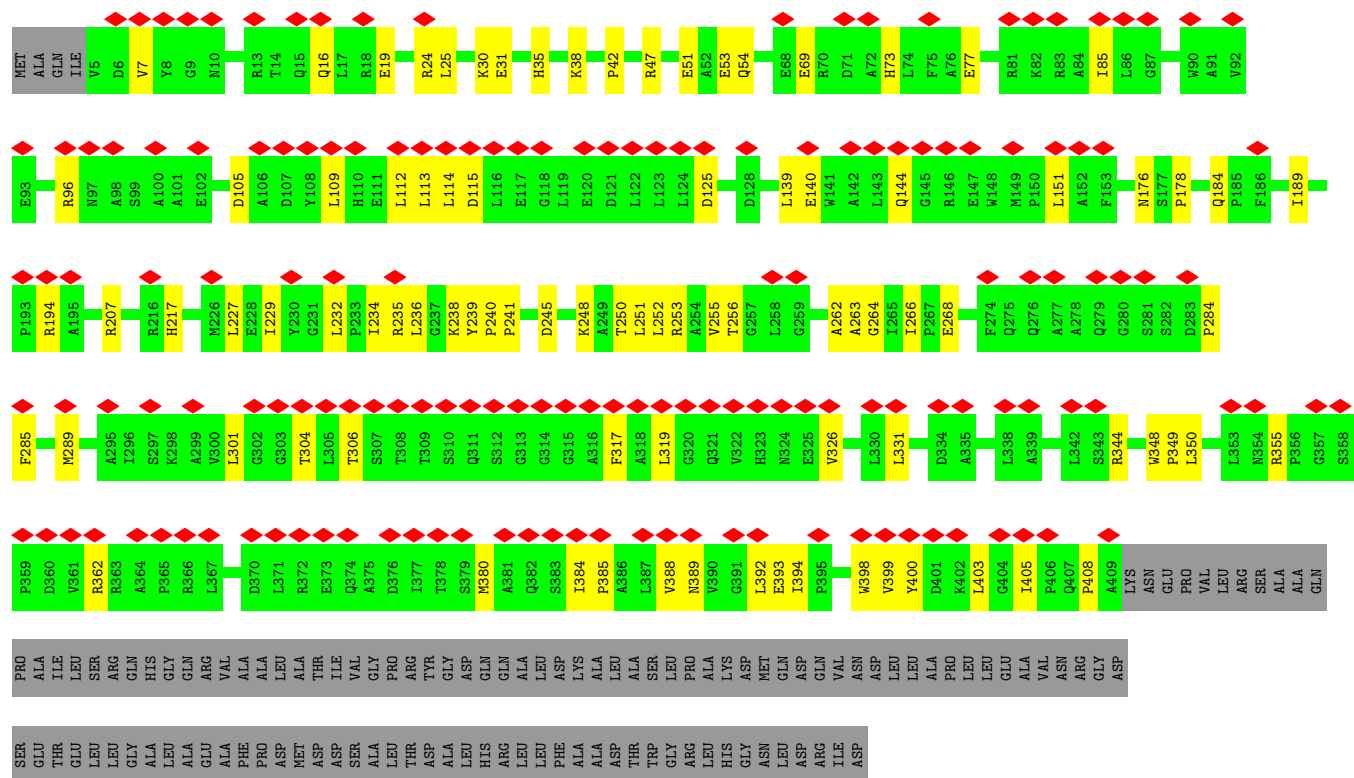


• Molecule 5: Portal protein



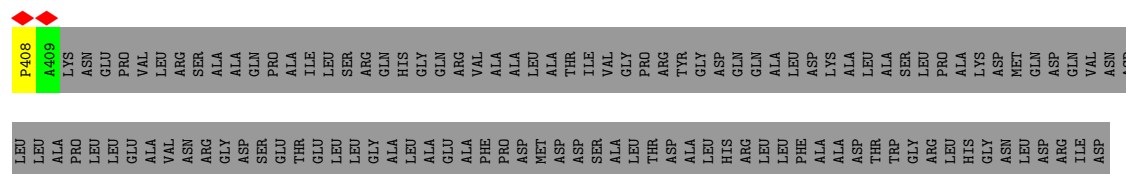


• Molecule 5: Portal protein

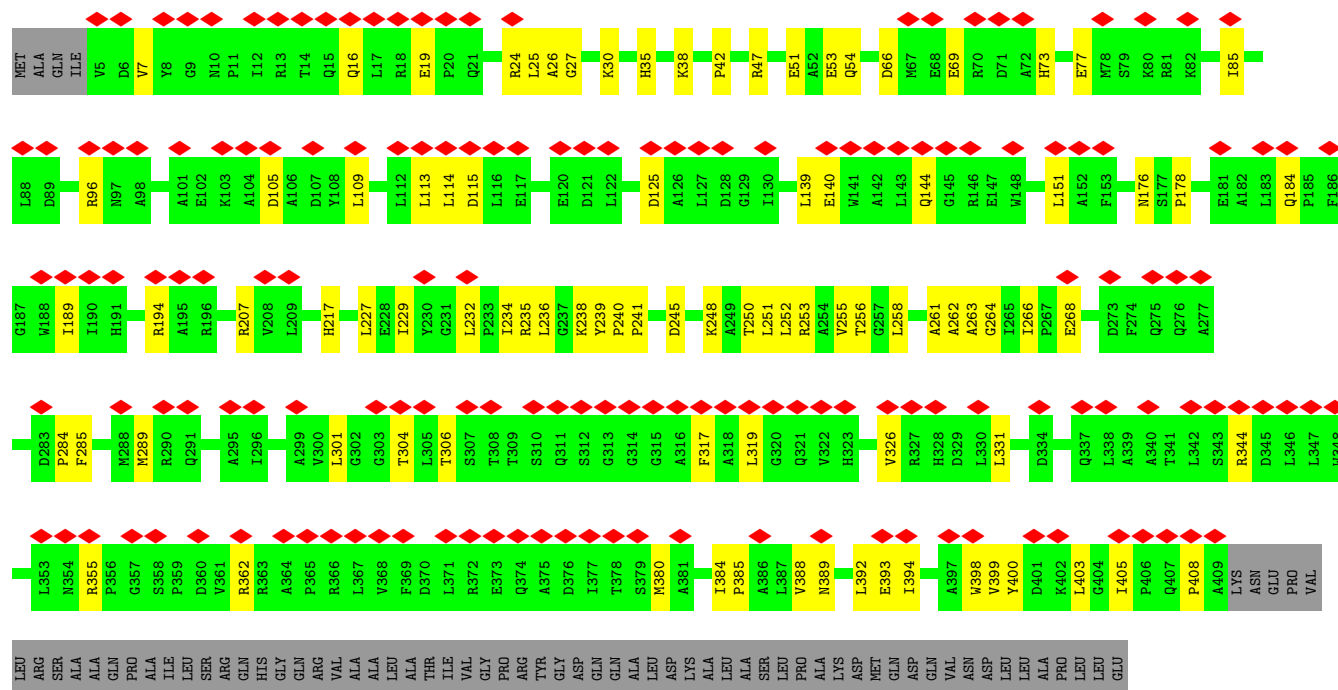


• Molecule 5: Portal protein

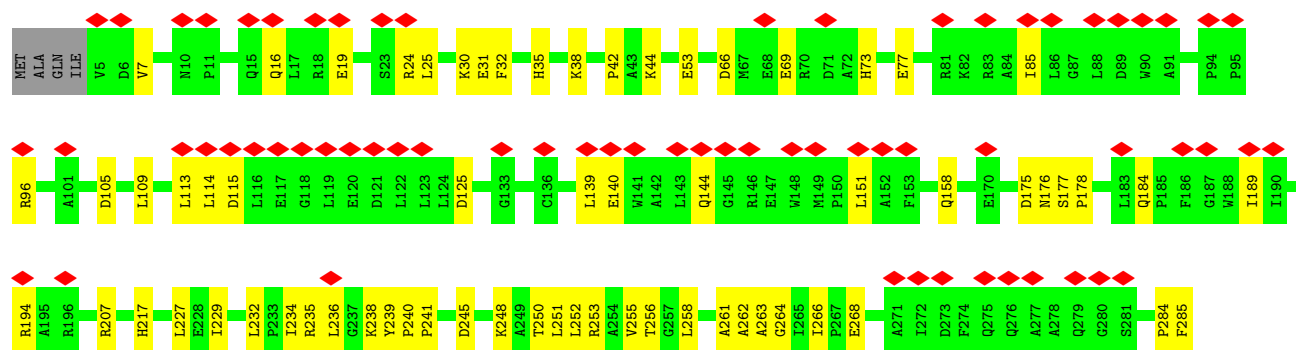


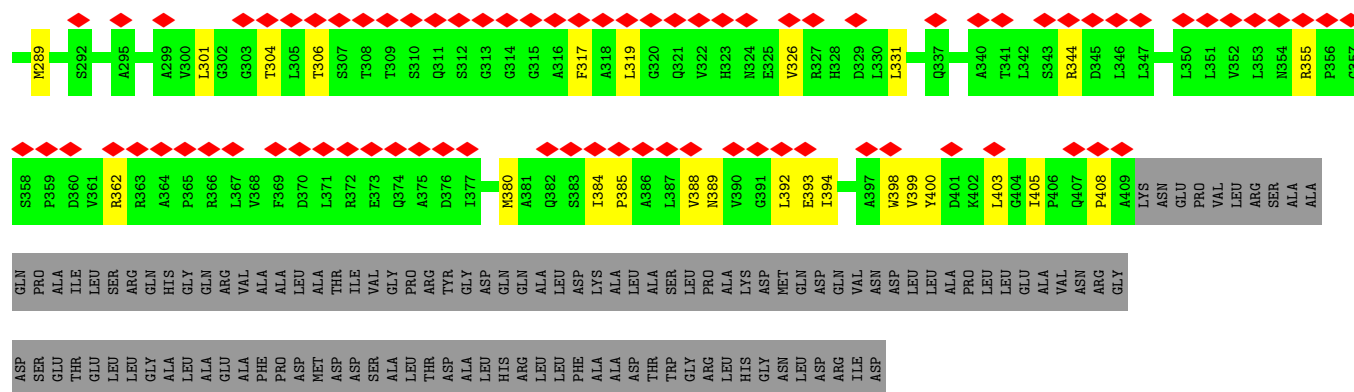


● Molecule 5: Portal protein

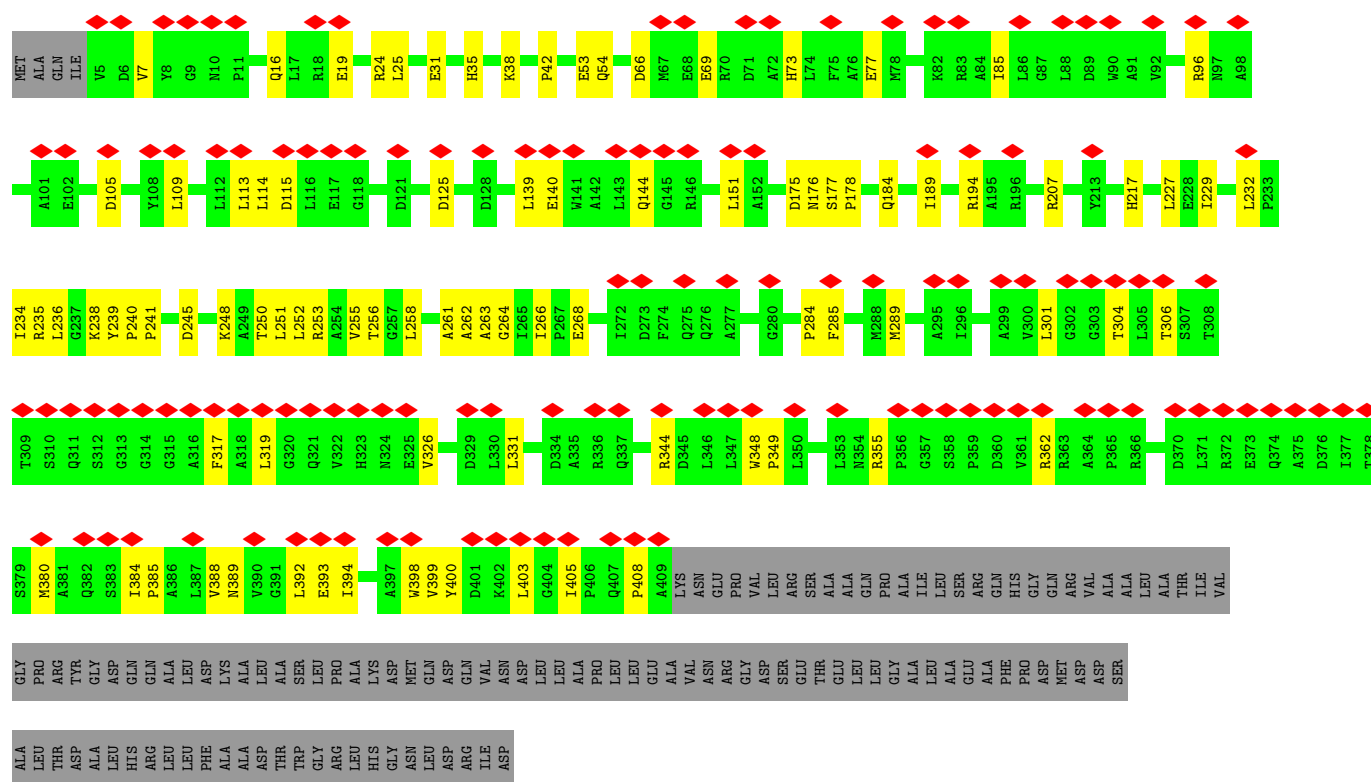


● Molecule 5: Portal protein

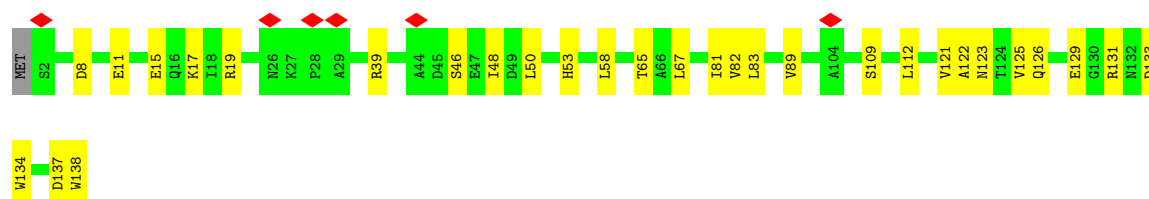
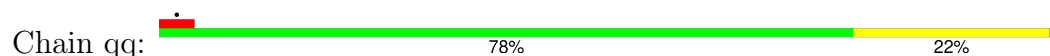




• Molecule 5: Portal protein

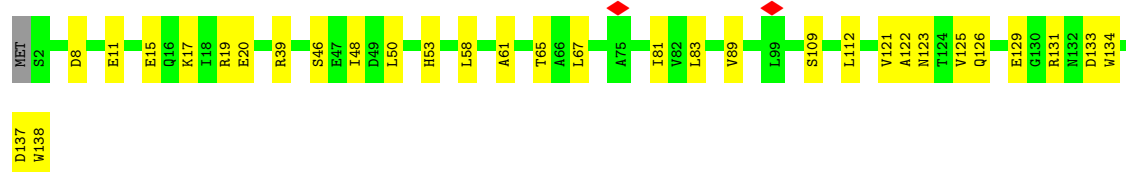


• Molecule 6: DUF1320 domain-containing protein



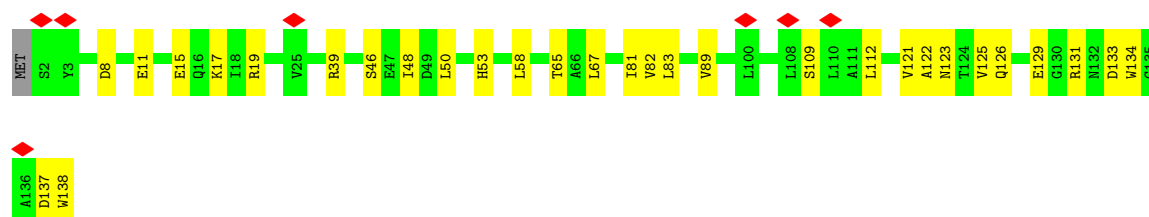
- Molecule 6: DUF1320 domain-containing protein

Chain qs:  77% 22%



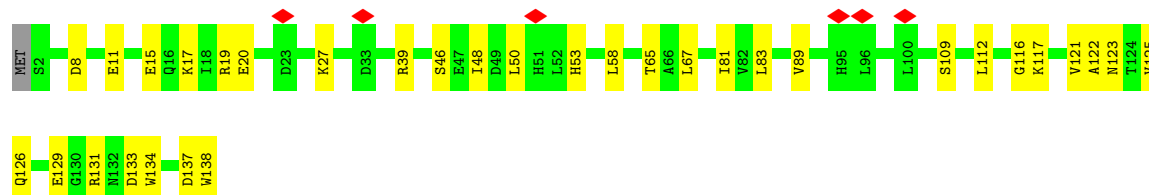
- Molecule 6: DUF1320 domain-containing protein

Chain qu:  5% 78% 22%



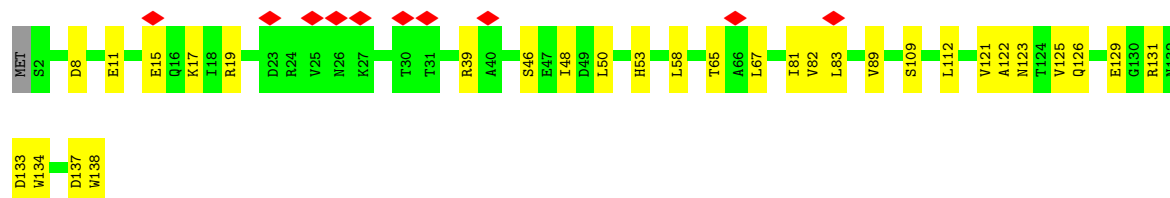
- Molecule 6: DUF1320 domain-containing protein

Chain qw:  75% 24%



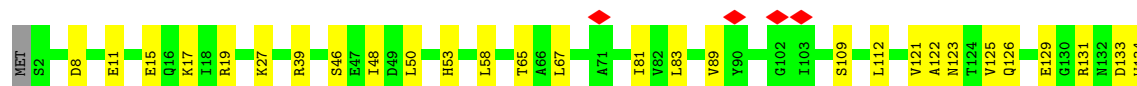
- Molecule 6: DUF1320 domain-containing protein

Chain qy:  7% 78% 22%



- Molecule 6: DUF1320 domain-containing protein

Chain qA:  78% 22%



D137
W138

- Molecule 6: DUF1320 domain-containing protein

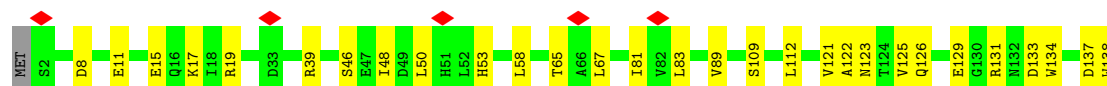
Chain qC:  76% 23%



D137
W138

- Molecule 6: DUF1320 domain-containing protein

Chain qE:  78% 21%



- Molecule 6: DUF1320 domain-containing protein

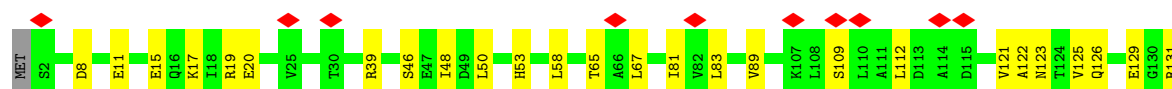
Chain qG:  76% 23%



D137
W138

- Molecule 6: DUF1320 domain-containing protein

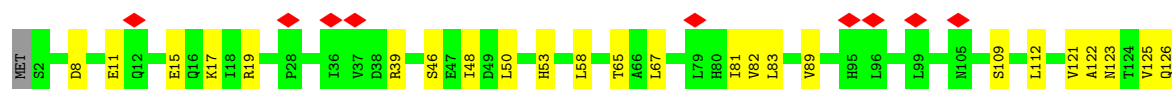
Chain qI:  78% 22% 7%



N132
D133
W134
D137
W138

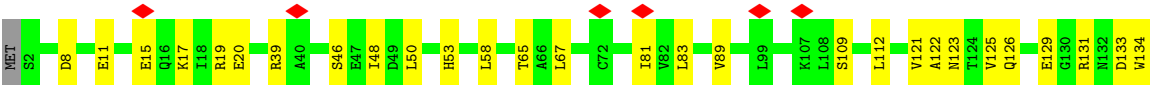
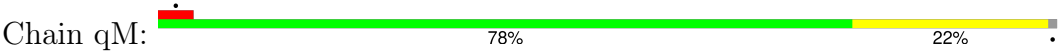
- Molecule 6: DUF1320 domain-containing protein

Chain qK:  78% 22% 7%





• Molecule 6: DUF1320 domain-containing protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	2913	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	30	Depositor
Minimum defocus (nm)	600	Depositor
Maximum defocus (nm)	1600	Depositor
Magnification	130000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.048	Depositor
Minimum map value	-0.013	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.013	Depositor
Map size ($\text{\AA}$)	873.6, 873.6, 873.6	wwPDB
Map dimensions	840, 840, 840	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.04, 1.04, 1.04	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	aA	0.10	0/438	0.28	0/586
1	aB	0.11	0/438	0.30	0/586
1	aC	0.10	0/438	0.27	0/586
1	aD	0.11	0/438	0.30	0/586
1	aE	0.10	0/438	0.30	0/586
1	aF	0.13	0/438	0.34	0/586
1	aG	0.13	0/438	0.32	0/586
1	aO	0.10	0/438	0.28	0/586
1	aP	0.11	0/438	0.31	0/586
1	aQ	0.10	0/438	0.27	0/586
1	aR	0.10	0/438	0.30	0/586
1	aS	0.11	0/438	0.30	0/586
1	aT	0.13	0/438	0.34	0/586
1	aU	0.13	0/438	0.32	0/586
1	aa	0.11	0/438	0.30	0/586
1	ab	0.09	0/438	0.27	0/586
1	ac	0.10	0/438	0.30	0/586
1	ad	0.10	0/438	0.30	0/586
1	ae	0.13	0/438	0.34	0/586
1	af	0.12	0/438	0.32	0/586
1	an	0.10	0/438	0.28	0/586
1	ao	0.11	0/438	0.30	0/586
1	ap	0.10	0/438	0.27	0/586
1	aq	0.10	0/438	0.30	0/586
1	ar	0.10	0/438	0.30	0/586
1	as	0.13	0/438	0.34	0/586
1	at	0.13	0/438	0.32	0/586
1	bE	0.10	0/438	0.28	0/586
1	bF	0.11	0/438	0.30	0/586
1	bG	0.10	0/438	0.27	0/586
1	bH	0.10	0/438	0.30	0/586
1	bI	0.10	0/438	0.30	0/586
1	bJ	0.13	0/438	0.34	0/586
1	bK	0.13	0/438	0.32	0/586

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	bR	0.10	0/438	0.28	0/586
1	bS	0.11	0/438	0.30	0/586
1	bT	0.10	0/438	0.27	0/586
1	bU	0.11	0/438	0.30	0/586
1	bV	0.11	0/438	0.30	0/586
1	bW	0.13	0/438	0.34	0/586
1	bX	0.13	0/438	0.32	0/586
1	bc	0.10	0/438	0.28	0/586
1	bd	0.11	0/438	0.30	0/586
1	be	0.10	0/438	0.27	0/586
1	bf	0.11	0/438	0.30	0/586
1	bg	0.10	0/438	0.30	0/586
1	bh	0.13	0/438	0.34	0/586
1	bi	0.13	0/438	0.32	0/586
1	bq	0.10	0/438	0.28	0/586
1	br	0.11	0/438	0.30	0/586
1	bs	0.10	0/438	0.27	0/586
1	bt	0.10	0/438	0.29	0/586
1	bu	0.11	0/438	0.30	0/586
1	bv	0.13	0/438	0.34	0/586
1	bw	0.13	0/438	0.32	0/586
1	cH	0.10	0/438	0.28	0/586
1	cI	0.11	0/438	0.30	0/586
1	cJ	0.10	0/438	0.27	0/586
1	cK	0.10	0/438	0.30	0/586
1	cL	0.10	0/438	0.30	0/586
1	cM	0.13	0/438	0.34	0/586
1	cN	0.13	0/438	0.33	0/586
1	cV	0.10	0/438	0.28	0/586
1	cW	0.11	0/438	0.30	0/586
1	cX	0.10	0/438	0.27	0/586
1	cY	0.10	0/438	0.30	0/586
1	cZ	0.11	0/438	0.30	0/586
1	cf	0.10	0/438	0.28	0/586
1	cg	0.11	0/438	0.30	0/586
1	ch	0.10	0/438	0.27	0/586
1	ci	0.11	0/438	0.30	0/586
1	cj	0.11	0/438	0.30	0/586
1	ck	0.13	0/438	0.34	0/586
1	cl	0.13	0/438	0.32	0/586
1	ct	0.10	0/438	0.28	0/586
1	cu	0.11	0/438	0.31	0/586
1	cv	0.10	0/438	0.27	0/586

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	cw	0.11	0/438	0.30	0/586
1	cx	0.11	0/438	0.30	0/586
1	cy	0.13	0/438	0.34	0/586
1	cz	0.13	0/438	0.32	0/586
1	dA	0.10	0/438	0.30	0/586
1	dB	0.11	0/438	0.30	0/586
1	dC	0.13	0/438	0.34	0/586
1	dD	0.13	0/438	0.32	0/586
1	dL	0.10	0/438	0.28	0/586
1	dM	0.11	0/438	0.30	0/586
1	dN	0.10	0/438	0.27	0/586
1	dO	0.10	0/438	0.30	0/586
1	dP	0.10	0/438	0.30	0/586
1	dQ	0.13	0/438	0.34	0/586
1	dR	0.13	0/438	0.32	0/586
1	dZ	0.10	0/438	0.28	0/586
1	da	0.13	0/438	0.34	0/586
1	db	0.13	0/438	0.32	0/586
1	dj	0.10	0/438	0.28	0/586
1	dk	0.11	0/438	0.30	0/586
1	dl	0.10	0/438	0.27	0/586
1	dm	0.11	0/438	0.30	0/586
1	dn	0.11	0/438	0.30	0/586
1	do	0.11	0/438	0.34	0/586
1	dp	0.13	0/438	0.32	0/586
1	dx	0.10	0/438	0.28	0/586
1	dy	0.11	0/438	0.30	0/586
1	dz	0.10	0/438	0.27	0/586
1	eB	0.10	0/438	0.28	0/586
1	eC	0.11	0/438	0.30	0/586
1	eD	0.10	0/438	0.27	0/586
1	eE	0.11	0/438	0.30	0/586
1	eF	0.10	0/438	0.30	0/586
1	eG	0.13	0/438	0.34	0/586
1	eH	0.13	0/438	0.32	0/586
1	eP	0.10	0/438	0.28	0/586
1	eQ	0.11	0/438	0.30	0/586
1	eR	0.10	0/438	0.27	0/586
1	eS	0.10	0/438	0.30	0/586
1	eT	0.11	0/438	0.30	0/586
1	eU	0.13	0/438	0.34	0/586
1	eV	0.13	0/438	0.32	0/586
1	ea	0.11	0/438	0.31	0/586

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	eb	0.10	0/438	0.27	0/586
1	ec	0.11	0/438	0.30	0/586
1	ed	0.10	0/438	0.30	0/586
1	ee	0.13	0/438	0.34	0/586
1	ef	0.13	0/438	0.32	0/586
1	en	0.10	0/438	0.28	0/586
1	eo	0.11	0/438	0.30	0/586
1	ep	0.10	0/438	0.27	0/586
1	eq	0.11	0/438	0.30	0/586
1	er	0.11	0/438	0.30	0/586
1	es	0.13	0/438	0.34	0/586
1	et	0.13	0/438	0.32	0/586
1	fF	0.10	0/438	0.28	0/586
1	fG	0.11	0/438	0.31	0/586
1	fH	0.10	0/438	0.27	0/586
1	fI	0.10	0/438	0.30	0/586
1	fJ	0.11	0/438	0.30	0/586
1	fK	0.13	0/438	0.34	0/586
1	fL	0.13	0/438	0.32	0/586
1	fT	0.10	0/438	0.28	0/586
1	fU	0.12	0/438	0.30	0/586
1	fV	0.10	0/438	0.27	0/586
1	fW	0.10	0/438	0.30	0/586
1	fX	0.10	0/438	0.30	0/586
1	fY	0.13	0/438	0.34	0/586
1	fZ	0.13	0/438	0.32	0/586
1	fd	0.10	0/438	0.28	0/586
1	fe	0.11	0/438	0.31	0/586
1	ff	0.10	0/438	0.27	0/586
1	fg	0.11	0/438	0.30	0/586
1	fh	0.11	0/438	0.30	0/586
1	fi	0.13	0/438	0.34	0/586
1	fj	0.13	0/438	0.32	0/586
1	fr	0.10	0/438	0.28	0/586
1	fs	0.11	0/438	0.30	0/586
1	ft	0.10	0/438	0.27	0/586
1	fu	0.11	0/438	0.30	0/586
1	fv	0.11	0/438	0.30	0/586
1	fw	0.13	0/438	0.34	0/586
1	fx	0.13	0/438	0.32	0/586
1	gA	0.13	0/438	0.34	0/586
1	gB	0.13	0/438	0.32	0/586
1	gJ	0.10	0/438	0.28	0/586

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	gK	0.11	0/438	0.30	0/586
1	gL	0.10	0/438	0.27	0/586
1	gM	0.10	0/438	0.30	0/586
1	gN	0.11	0/438	0.30	0/586
1	gO	0.13	0/438	0.34	0/586
1	gP	0.13	0/438	0.32	0/586
1	gX	0.10	0/438	0.28	0/586
1	gY	0.12	0/438	0.30	0/586
1	gZ	0.10	0/438	0.27	0/586
1	gh	0.10	0/438	0.28	0/586
1	gi	0.11	0/438	0.30	0/586
1	gj	0.10	0/438	0.27	0/586
1	gk	0.10	0/438	0.30	0/586
1	gl	0.11	0/438	0.30	0/586
1	gm	0.13	0/438	0.34	0/586
1	gn	0.13	0/438	0.32	0/586
1	gv	0.10	0/438	0.28	0/586
1	gw	0.11	0/438	0.30	0/586
1	gx	0.10	0/438	0.27	0/586
1	gy	0.11	0/438	0.30	0/586
1	gz	0.11	0/438	0.30	0/586
1	hA	0.10	0/438	0.27	0/586
1	hB	0.10	0/438	0.30	0/586
1	hC	0.10	0/438	0.30	0/586
1	hD	0.13	0/438	0.34	0/586
1	hE	0.13	0/438	0.32	0/586
1	hL	0.10	0/438	0.28	0/586
1	hM	0.11	0/438	0.30	0/586
1	hN	0.10	0/438	0.27	0/586
1	hO	0.11	0/438	0.30	0/586
1	hP	0.11	0/438	0.30	0/586
1	hQ	0.13	0/438	0.34	0/586
1	hR	0.13	0/438	0.32	0/586
1	hZ	0.10	0/438	0.28	0/586
1	ha	0.10	0/438	0.30	0/586
1	hb	0.10	0/438	0.30	0/586
1	hc	0.13	0/438	0.34	0/586
1	hd	0.13	0/438	0.32	0/586
1	hl	0.10	0/438	0.28	0/586
1	hm	0.11	0/438	0.30	0/586
1	hn	0.10	0/438	0.27	0/586
1	ho	0.10	0/438	0.30	0/586
1	hp	0.10	0/438	0.30	0/586

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	hq	0.11	0/438	0.34	0/586
1	hr	0.13	0/438	0.32	0/586
1	hy	0.10	0/438	0.28	0/586
1	hz	0.11	0/438	0.30	0/586
1	iB	0.10	0/438	0.28	0/586
1	iC	0.11	0/438	0.30	0/586
1	iD	0.10	0/438	0.27	0/586
1	iE	0.10	0/438	0.30	0/586
1	iF	0.10	0/438	0.30	0/586
1	iG	0.13	0/438	0.34	0/586
1	iH	0.13	0/438	0.32	0/586
1	iP	0.10	0/438	0.28	0/586
1	iQ	0.11	0/438	0.30	0/586
1	iR	0.10	0/438	0.27	0/586
1	iS	0.11	0/438	0.30	0/586
1	iT	0.11	0/438	0.30	0/586
1	iU	0.13	0/438	0.34	0/586
1	iV	0.13	0/438	0.32	0/586
1	ia	0.11	0/438	0.30	0/586
1	ib	0.10	0/438	0.27	0/586
1	ic	0.11	0/438	0.30	0/586
1	id	0.11	0/438	0.30	0/586
1	ie	0.13	0/438	0.34	0/586
1	if	0.13	0/438	0.32	0/586
1	in	0.10	0/438	0.28	0/586
1	io	0.11	0/438	0.30	0/586
1	ip	0.10	0/438	0.27	0/586
1	iq	0.11	0/438	0.30	0/586
1	ir	0.11	0/438	0.30	0/586
1	is	0.11	0/438	0.34	0/586
1	it	0.13	0/438	0.32	0/586
1	jF	0.10	0/438	0.28	0/586
1	jG	0.11	0/438	0.30	0/586
1	jH	0.10	0/438	0.27	0/586
1	jI	0.11	0/438	0.30	0/586
1	jJ	0.10	0/438	0.30	0/586
1	jK	0.13	0/438	0.34	0/586
1	jL	0.13	0/438	0.32	0/586
1	jT	0.10	0/438	0.28	0/586
1	jU	0.11	0/438	0.30	0/586
1	jV	0.10	0/438	0.27	0/586
1	jW	0.11	0/438	0.30	0/586
1	jX	0.11	0/438	0.30	0/586

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	jY	0.13	0/438	0.34	0/586
1	jZ	0.13	0/438	0.32	0/586
1	jd	0.10	0/438	0.28	0/586
1	je	0.11	0/438	0.31	0/586
1	jf	0.10	0/438	0.27	0/586
1	yg	0.11	0/438	0.30	0/586
1	jh	0.11	0/438	0.30	0/586
1	ji	0.13	0/438	0.34	0/586
1	jj	0.13	0/438	0.32	0/586
1	jr	0.10	0/438	0.28	0/586
1	js	0.11	0/438	0.30	0/586
1	jt	0.10	0/438	0.27	0/586
1	ju	0.10	0/438	0.30	0/586
1	jv	0.11	0/438	0.30	0/586
1	jw	0.13	0/438	0.34	0/586
1	jx	0.13	0/438	0.32	0/586
1	kA	0.13	0/438	0.32	0/586
1	kI	0.10	0/438	0.28	0/586
1	kJ	0.11	0/438	0.30	0/586
1	kK	0.10	0/438	0.27	0/586
1	kL	0.10	0/438	0.30	0/586
1	kM	0.10	0/438	0.30	0/586
1	kN	0.13	0/438	0.34	0/586
1	kO	0.13	0/438	0.32	0/586
1	kW	0.10	0/438	0.28	0/586
1	kX	0.11	0/438	0.30	0/586
1	kY	0.10	0/438	0.27	0/586
1	kZ	0.11	0/438	0.30	0/586
1	kh	0.10	0/438	0.28	0/586
1	ki	0.11	0/438	0.30	0/586
1	kj	0.10	0/438	0.27	0/586
1	kk	0.10	0/438	0.30	0/586
1	kl	0.10	0/438	0.30	0/586
1	km	0.11	0/438	0.34	0/586
1	kn	0.13	0/438	0.32	0/586
1	ku	0.10	0/438	0.28	0/586
1	kv	0.11	0/438	0.30	0/586
1	kw	0.10	0/438	0.27	0/586
1	kx	0.10	0/438	0.30	0/586
1	ky	0.10	0/438	0.30	0/586
1	kz	0.13	0/438	0.34	0/586
1	lA	0.10	0/438	0.27	0/586
1	lB	0.10	0/438	0.30	0/586

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	lC	0.11	0/438	0.30	0/586
1	lD	0.13	0/438	0.34	0/586
1	lE	0.13	0/438	0.32	0/586
1	lM	0.10	0/438	0.28	0/586
1	lN	0.11	0/438	0.30	0/586
1	lO	0.10	0/438	0.27	0/586
1	lP	0.10	0/438	0.30	0/586
1	lQ	0.11	0/438	0.30	0/586
1	lR	0.13	0/438	0.34	0/586
1	lS	0.13	0/438	0.32	0/586
1	la	0.11	0/438	0.30	0/586
1	lb	0.13	0/438	0.34	0/586
1	lc	0.13	0/438	0.32	0/586
1	lk	0.10	0/438	0.28	0/586
1	ll	0.11	0/438	0.31	0/586
1	lm	0.10	0/438	0.27	0/586
1	ln	0.10	0/438	0.30	0/586
1	lo	0.11	0/438	0.30	0/586
1	lp	0.13	0/438	0.34	0/586
1	lq	0.13	0/438	0.32	0/586
1	ly	0.10	0/438	0.28	0/586
1	lz	0.11	0/438	0.30	0/586
1	mC	0.10	0/438	0.28	0/586
1	mD	0.11	0/438	0.30	0/586
1	mE	0.10	0/438	0.27	0/586
1	mF	0.11	0/438	0.30	0/586
1	mG	0.10	0/438	0.30	0/586
1	mH	0.13	0/438	0.34	0/586
1	mI	0.13	0/438	0.32	0/586
1	mQ	0.10	0/438	0.28	0/586
1	mR	0.11	0/438	0.30	0/586
1	mS	0.10	0/438	0.27	0/586
1	mT	0.10	0/438	0.30	0/586
1	mU	0.10	0/438	0.29	0/586
1	mV	0.13	0/438	0.34	0/586
1	mW	0.13	0/438	0.32	0/586
1	ma	0.10	0/438	0.28	0/586
1	mb	0.11	0/438	0.30	0/586
1	mc	0.10	0/438	0.27	0/586
1	md	0.11	0/438	0.30	0/586
1	me	0.10	0/438	0.30	0/586
1	mf	0.13	0/438	0.34	0/586
1	mg	0.13	0/438	0.32	0/586

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	mo	0.10	0/438	0.28	0/586
1	mp	0.11	0/438	0.31	0/586
1	mq	0.10	0/438	0.27	0/586
1	mr	0.11	0/438	0.30	0/586
1	ms	0.10	0/438	0.30	0/586
1	mt	0.13	0/438	0.34	0/586
1	mu	0.13	0/438	0.32	0/586
1	nG	0.10	0/438	0.28	0/586
1	nH	0.11	0/438	0.30	0/586
1	nI	0.10	0/438	0.27	0/586
1	nJ	0.10	0/438	0.30	0/586
1	nK	0.10	0/438	0.30	0/586
1	nL	0.13	0/438	0.34	0/586
1	nM	0.13	0/438	0.32	0/586
1	nU	0.10	0/438	0.28	0/586
1	nV	0.11	0/438	0.30	0/586
1	nW	0.10	0/438	0.27	0/586
1	nX	0.10	0/438	0.30	0/586
1	nY	0.10	0/438	0.30	0/586
1	nZ	0.13	0/438	0.34	0/586
1	ne	0.10	0/438	0.28	0/586
1	nf	0.11	0/438	0.30	0/586
1	ng	0.10	0/438	0.27	0/586
1	nh	0.11	0/438	0.30	0/586
1	ni	0.11	0/438	0.30	0/586
1	nj	0.13	0/438	0.34	0/586
1	nk	0.13	0/438	0.32	0/586
1	ns	0.10	0/438	0.28	0/586
1	nt	0.11	0/438	0.30	0/586
1	nu	0.10	0/438	0.27	0/586
1	nv	0.11	0/438	0.30	0/586
1	nw	0.11	0/438	0.30	0/586
1	nx	0.13	0/438	0.34	0/586
1	ny	0.13	0/438	0.32	0/586
1	oA	0.11	0/438	0.30	0/586
1	oB	0.13	0/438	0.34	0/586
1	oC	0.13	0/438	0.32	0/586
1	oK	0.10	0/438	0.28	0/586
1	oL	0.11	0/438	0.30	0/586
1	oM	0.10	0/438	0.27	0/586
1	oN	0.10	0/438	0.30	0/586
1	oO	0.10	0/438	0.30	0/586
1	oP	0.13	0/438	0.34	0/586

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	oQ	0.13	0/438	0.32	0/586
1	oY	0.10	0/438	0.28	0/586
1	oZ	0.11	0/438	0.30	0/586
1	oa	0.13	0/438	0.32	0/586
1	oi	0.10	0/438	0.28	0/586
1	oj	0.11	0/438	0.30	0/586
1	ok	0.10	0/438	0.27	0/586
1	ol	0.10	0/438	0.30	0/586
1	om	0.11	0/438	0.30	0/586
1	on	0.13	0/438	0.34	0/586
1	oo	0.13	0/438	0.32	0/586
1	ow	0.10	0/438	0.28	0/586
1	ox	0.11	0/438	0.31	0/586
1	oy	0.10	0/438	0.27	0/586
1	oz	0.11	0/438	0.30	0/586
1	pA	0.10	0/438	0.28	0/586
1	pB	0.11	0/438	0.30	0/586
1	pC	0.10	0/438	0.27	0/586
1	pD	0.11	0/438	0.30	0/586
1	pE	0.11	0/438	0.30	0/586
1	pF	0.13	0/438	0.34	0/586
1	pG	0.13	0/438	0.32	0/586
1	pO	0.10	0/438	0.28	0/586
1	pP	0.11	0/438	0.30	0/586
1	pQ	0.10	0/438	0.27	0/586
1	pR	0.10	0/438	0.30	0/586
1	pS	0.11	0/438	0.30	0/586
1	pT	0.13	0/438	0.34	0/586
1	pU	0.13	0/438	0.32	0/586
1	pa	0.10	0/438	0.27	0/586
1	pb	0.11	0/438	0.30	0/586
1	pc	0.10	0/438	0.29	0/586
1	pd	0.13	0/438	0.34	0/586
1	pe	0.13	0/438	0.32	0/586
1	pm	0.11	0/438	0.28	0/586
1	pn	0.12	0/438	0.30	0/586
1	po	0.10	0/438	0.27	0/586
1	pp	0.11	0/438	0.30	0/586
1	pq	0.11	0/438	0.30	0/586
1	pr	0.13	0/438	0.34	0/586
1	ps	0.13	0/438	0.32	0/586
1	qc	0.10	0/438	0.28	0/586
2	aH	0.13	0/2357	0.31	0/3202

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	aI	0.13	0/2369	0.32	0/3219
2	aJ	0.13	0/2357	0.38	2/3202 (0.1%)
2	aK	0.11	0/2357	0.29	0/3202
2	aL	0.13	0/2357	0.33	0/3202
2	aM	0.12	0/2357	0.33	0/3202
2	aN	0.13	0/2357	0.32	0/3202
2	aV	0.13	0/2357	0.31	0/3202
2	aW	0.13	0/2369	0.32	0/3219
2	aX	0.13	0/2357	0.38	2/3202 (0.1%)
2	aY	0.11	0/2357	0.29	0/3202
2	aZ	0.13	0/2357	0.34	0/3202
2	ag	0.13	0/2357	0.31	0/3202
2	ah	0.13	0/2369	0.32	0/3219
2	ai	0.13	0/2357	0.38	2/3202 (0.1%)
2	aj	0.11	0/2357	0.29	0/3202
2	ak	0.13	0/2357	0.33	0/3202
2	al	0.12	0/2357	0.33	0/3202
2	am	0.12	0/2357	0.32	0/3202
2	au	0.13	0/2357	0.31	0/3202
2	av	0.13	0/2357	0.38	2/3202 (0.1%)
2	aw	0.11	0/2357	0.29	0/3202
2	ax	0.13	0/2357	0.33	0/3202
2	ay	0.12	0/2357	0.33	0/3202
2	az	0.13	0/2357	0.32	0/3202
2	bA	0.11	0/2357	0.29	0/3202
2	bB	0.13	0/2357	0.34	0/3202
2	bC	0.12	0/2357	0.33	0/3202
2	bD	0.13	0/2357	0.32	0/3202
2	bL	0.13	0/2357	0.31	0/3202
2	bM	0.13	0/2357	0.38	2/3202 (0.1%)
2	bN	0.11	0/2357	0.29	0/3202
2	bO	0.13	0/2357	0.33	0/3202
2	bP	0.12	0/2357	0.33	0/3202
2	bQ	0.13	0/2357	0.32	0/3202
2	bY	0.13	0/2357	0.31	0/3202
2	bZ	0.13	0/2369	0.32	0/3219
2	ba	0.12	0/2357	0.33	0/3202
2	bb	0.13	0/2357	0.32	0/3202
2	bj	0.13	0/2357	0.31	0/3202
2	bk	0.13	0/2369	0.32	0/3219
2	bl	0.13	0/2357	0.38	2/3202 (0.1%)
2	bm	0.11	0/2357	0.29	0/3202
2	bn	0.13	0/2357	0.33	0/3202

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	bo	0.12	0/2357	0.33	0/3202
2	bp	0.13	0/2357	0.32	0/3202
2	bx	0.13	0/2357	0.31	0/3202
2	by	0.13	0/2369	0.32	0/3219
2	bz	0.13	0/2357	0.38	2/3202 (0.1%)
2	cA	0.13	0/2357	0.31	0/3202
2	cB	0.13	0/2369	0.32	0/3219
2	cC	0.13	0/2357	0.38	2/3202 (0.1%)
2	cD	0.11	0/2357	0.29	0/3202
2	cE	0.13	0/2357	0.33	0/3202
2	cF	0.12	0/2357	0.33	0/3202
2	cG	0.13	0/2357	0.32	0/3202
2	cO	0.13	0/2357	0.31	0/3202
2	cP	0.13	0/2369	0.32	0/3219
2	cQ	0.13	0/2357	0.38	2/3202 (0.1%)
2	cR	0.11	0/2357	0.29	0/3202
2	cS	0.13	0/2357	0.33	0/3202
2	cT	0.12	0/2357	0.33	0/3202
2	cU	0.13	0/2357	0.32	0/3202
2	ca	0.13	0/2357	0.38	2/3202 (0.1%)
2	cb	0.11	0/2357	0.29	0/3202
2	cc	0.13	0/2357	0.33	0/3202
2	cd	0.12	0/2357	0.33	0/3202
2	ce	0.13	0/2357	0.32	0/3202
2	cm	0.13	0/2357	0.31	0/3202
2	cn	0.13	0/2369	0.32	0/3219
2	co	0.13	0/2357	0.38	2/3202 (0.1%)
2	cp	0.11	0/2357	0.29	0/3202
2	cq	0.13	0/2357	0.33	0/3202
2	cr	0.12	0/2357	0.33	0/3202
2	cs	0.13	0/2357	0.32	0/3202
2	dE	0.13	0/2357	0.31	0/3202
2	dF	0.13	0/2369	0.32	0/3219
2	dG	0.13	0/2357	0.38	2/3202 (0.1%)
2	dH	0.11	0/2357	0.29	0/3202
2	dI	0.13	0/2357	0.33	0/3202
2	dJ	0.12	0/2357	0.33	0/3202
2	dK	0.13	0/2357	0.32	0/3202
2	dS	0.13	0/2357	0.31	0/3202
2	dT	0.13	0/2369	0.32	0/3219
2	dU	0.13	0/2357	0.38	2/3202 (0.1%)
2	dV	0.11	0/2357	0.29	0/3202
2	dW	0.13	0/2357	0.33	0/3202

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	dX	0.12	0/2357	0.33	0/3202
2	dY	0.13	0/2357	0.32	0/3202
2	dc	0.13	0/2357	0.31	0/3202
2	dd	0.13	0/2369	0.32	0/3219
2	de	0.13	0/2357	0.38	2/3202 (0.1%)
2	df	0.11	0/2357	0.29	0/3202
2	dg	0.13	0/2357	0.33	0/3202
2	dh	0.12	0/2357	0.33	0/3202
2	di	0.13	0/2357	0.32	0/3202
2	dq	0.13	0/2357	0.31	0/3202
2	dr	0.13	0/2369	0.32	0/3219
2	ds	0.13	0/2357	0.38	2/3202 (0.1%)
2	dt	0.11	0/2357	0.29	0/3202
2	du	0.13	0/2357	0.33	0/3202
2	dv	0.12	0/2357	0.33	0/3202
2	dw	0.13	0/2357	0.32	0/3202
2	eA	0.13	0/2357	0.32	0/3202
2	eI	0.13	0/2357	0.31	0/3202
2	eJ	0.13	0/2369	0.32	0/3219
2	eK	0.13	0/2357	0.38	2/3202 (0.1%)
2	eL	0.11	0/2357	0.29	0/3202
2	eM	0.13	0/2357	0.33	0/3202
2	eN	0.12	0/2357	0.33	0/3202
2	eO	0.13	0/2357	0.32	0/3202
2	eW	0.13	0/2357	0.31	0/3202
2	eX	0.13	0/2369	0.32	0/3219
2	eY	0.13	0/2357	0.38	2/3202 (0.1%)
2	eZ	0.11	0/2357	0.29	0/3202
2	eg	0.13	0/2357	0.31	0/3202
2	eh	0.13	0/2369	0.32	0/3219
2	ei	0.13	0/2357	0.38	2/3202 (0.1%)
2	ej	0.11	0/2357	0.29	0/3202
2	ek	0.13	0/2357	0.33	0/3202
2	el	0.12	0/2357	0.33	0/3202
2	em	0.13	0/2357	0.32	0/3202
2	eu	0.13	0/2357	0.31	0/3202
2	ev	0.13	0/2369	0.32	0/3219
2	ew	0.13	0/2357	0.38	2/3202 (0.1%)
2	ex	0.11	0/2357	0.29	0/3202
2	ey	0.13	0/2357	0.33	0/3202
2	ez	0.12	0/2357	0.33	0/3202
2	fA	0.13	0/2357	0.38	2/3202 (0.1%)
2	fB	0.11	0/2357	0.29	0/3202

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	fC	0.13	0/2357	0.33	0/3202
2	fD	0.12	0/2357	0.33	0/3202
2	fE	0.13	0/2357	0.32	0/3202
2	fM	0.13	0/2357	0.31	0/3202
2	fN	0.13	0/2369	0.32	0/3219
2	fO	0.13	0/2357	0.38	2/3202 (0.1%)
2	fP	0.11	0/2357	0.29	0/3202
2	fQ	0.13	0/2357	0.34	0/3202
2	fR	0.12	0/2357	0.33	0/3202
2	fS	0.13	0/2357	0.32	0/3202
2	fa	0.13	0/2357	0.33	0/3202
2	fb	0.12	0/2357	0.33	0/3202
2	fc	0.13	0/2357	0.32	0/3202
2	fk	0.13	0/2357	0.31	0/3202
2	fl	0.13	0/2369	0.32	0/3219
2	fm	0.13	0/2357	0.38	2/3202 (0.1%)
2	fn	0.11	0/2357	0.29	0/3202
2	fo	0.13	0/2357	0.34	0/3202
2	fp	0.12	0/2357	0.33	0/3202
2	fq	0.13	0/2357	0.32	0/3202
2	fy	0.13	0/2357	0.31	0/3202
2	fz	0.13	0/2369	0.32	0/3219
2	gC	0.13	0/2357	0.31	0/3202
2	gD	0.13	0/2369	0.32	0/3219
2	gE	0.13	0/2357	0.38	2/3202 (0.1%)
2	gF	0.11	0/2357	0.29	0/3202
2	gG	0.13	0/2357	0.33	0/3202
2	gH	0.12	0/2357	0.33	0/3202
2	gI	0.13	0/2357	0.32	0/3202
2	gQ	0.13	0/2357	0.31	0/3202
2	gR	0.13	0/2369	0.32	0/3219
2	gS	0.13	0/2357	0.38	2/3202 (0.1%)
2	gT	0.11	0/2357	0.29	0/3202
2	gU	0.13	0/2357	0.33	0/3202
2	gV	0.12	0/2357	0.33	0/3202
2	gW	0.13	0/2357	0.32	0/3202
2	ga	0.13	0/2357	0.31	0/3202
2	gb	0.13	0/2369	0.32	0/3219
2	gc	0.13	0/2357	0.38	2/3202 (0.1%)
2	gd	0.11	0/2357	0.29	0/3202
2	ge	0.13	0/2357	0.33	0/3202
2	gf	0.12	0/2357	0.33	0/3202
2	gg	0.13	0/2357	0.32	0/3202

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	go	0.13	0/2357	0.31	0/3202
2	gp	0.13	0/2369	0.32	0/3219
2	gq	0.13	0/2357	0.38	2/3202 (0.1%)
2	gr	0.11	0/2357	0.29	0/3202
2	gs	0.13	0/2357	0.33	0/3202
2	gt	0.12	0/2357	0.33	0/3202
2	gu	0.13	0/2357	0.32	0/3202
2	hF	0.13	0/2357	0.31	0/3202
2	hG	0.13	0/2357	0.38	2/3202 (0.1%)
2	hH	0.11	0/2357	0.29	0/3202
2	hI	0.13	0/2357	0.33	0/3202
2	hJ	0.12	0/2357	0.33	0/3202
2	hK	0.13	0/2357	0.32	0/3202
2	hS	0.13	0/2357	0.31	0/3202
2	hT	0.13	0/2369	0.32	0/3219
2	hU	0.13	0/2357	0.38	2/3202 (0.1%)
2	hV	0.11	0/2357	0.29	0/3202
2	hW	0.13	0/2357	0.33	0/3202
2	hX	0.12	0/2357	0.33	0/3202
2	hY	0.13	0/2357	0.32	0/3202
2	he	0.13	0/2357	0.31	0/3202
2	hf	0.13	0/2369	0.32	0/3219
2	hg	0.13	0/2357	0.38	2/3202 (0.1%)
2	hh	0.11	0/2357	0.29	0/3202
2	hi	0.13	0/2357	0.34	0/3202
2	hj	0.12	0/2357	0.33	0/3202
2	hk	0.13	0/2357	0.32	0/3202
2	hs	0.13	0/2357	0.31	0/3202
2	ht	0.13	0/2357	0.38	2/3202 (0.1%)
2	hu	0.11	0/2357	0.29	0/3202
2	hv	0.13	0/2357	0.33	0/3202
2	hw	0.12	0/2357	0.33	0/3202
2	hx	0.13	0/2357	0.32	0/3202
2	iA	0.13	0/2357	0.32	0/3202
2	iI	0.13	0/2357	0.31	0/3202
2	iJ	0.13	0/2369	0.32	0/3219
2	iK	0.13	0/2357	0.38	2/3202 (0.1%)
2	iL	0.11	0/2357	0.29	0/3202
2	iM	0.13	0/2357	0.34	0/3202
2	iN	0.12	0/2357	0.33	0/3202
2	iO	0.13	0/2357	0.32	0/3202
2	iW	0.13	0/2357	0.31	0/3202
2	iX	0.13	0/2369	0.32	0/3219

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	iY	0.13	0/2357	0.38	2/3202 (0.1%)
2	iZ	0.11	0/2357	0.29	0/3202
2	ig	0.13	0/2357	0.31	0/3202
2	ih	0.13	0/2369	0.32	0/3219
2	ii	0.13	0/2357	0.38	2/3202 (0.1%)
2	ij	0.11	0/2357	0.29	0/3202
2	ik	0.13	0/2357	0.33	0/3202
2	il	0.12	0/2357	0.33	0/3202
2	im	0.13	0/2357	0.32	0/3202
2	iu	0.13	0/2357	0.31	0/3202
2	iv	0.13	0/2369	0.32	0/3219
2	iw	0.13	0/2357	0.38	2/3202 (0.1%)
2	ix	0.11	0/2357	0.29	0/3202
2	iy	0.13	0/2357	0.33	0/3202
2	iz	0.12	0/2357	0.33	0/3202
2	jA	0.13	0/2357	0.38	2/3202 (0.1%)
2	jB	0.11	0/2357	0.29	0/3202
2	jC	0.13	0/2357	0.33	0/3202
2	jD	0.12	0/2357	0.33	0/3202
2	jE	0.13	0/2357	0.32	0/3202
2	jM	0.13	0/2357	0.31	0/3202
2	jN	0.13	0/2369	0.32	0/3219
2	jO	0.13	0/2357	0.38	2/3202 (0.1%)
2	jP	0.11	0/2357	0.29	0/3202
2	jQ	0.13	0/2357	0.33	0/3202
2	jR	0.12	0/2357	0.33	0/3202
2	jS	0.13	0/2357	0.32	0/3202
2	ja	0.13	0/2357	0.34	0/3202
2	jb	0.12	0/2357	0.33	0/3202
2	jc	0.13	0/2357	0.32	0/3202
2	jk	0.13	0/2357	0.31	0/3202
2	jl	0.13	0/2369	0.32	0/3219
2	jm	0.13	0/2357	0.38	2/3202 (0.1%)
2	jn	0.11	0/2357	0.29	0/3202
2	jo	0.13	0/2357	0.33	0/3202
2	jp	0.12	0/2357	0.33	0/3202
2	jq	0.13	0/2357	0.32	0/3202
2	jy	0.13	0/2357	0.31	0/3202
2	jz	0.13	0/2369	0.32	0/3219
2	kB	0.13	0/2357	0.31	0/3202
2	kC	0.13	0/2369	0.32	0/3219
2	kD	0.13	0/2357	0.38	2/3202 (0.1%)
2	kE	0.11	0/2357	0.29	0/3202

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	kF	0.13	0/2357	0.33	0/3202
2	kG	0.12	0/2357	0.33	0/3202
2	kH	0.13	0/2357	0.32	0/3202
2	kP	0.13	0/2357	0.31	0/3202
2	kQ	0.13	0/2369	0.32	0/3219
2	kR	0.13	0/2357	0.38	2/3202 (0.1%)
2	kS	0.11	0/2357	0.29	0/3202
2	kT	0.13	0/2357	0.33	0/3202
2	kU	0.12	0/2357	0.33	0/3202
2	kV	0.13	0/2357	0.32	0/3202
2	ka	0.13	0/2357	0.31	0/3202
2	kb	0.13	0/2369	0.32	0/3219
2	kc	0.13	0/2357	0.38	2/3202 (0.1%)
2	kd	0.11	0/2357	0.29	0/3202
2	ke	0.13	0/2357	0.33	0/3202
2	kf	0.12	0/2357	0.33	0/3202
2	kg	0.13	0/2357	0.32	0/3202
2	ko	0.13	0/2357	0.31	0/3202
2	kp	0.13	0/2357	0.38	2/3202 (0.1%)
2	kq	0.11	0/2357	0.29	0/3202
2	kr	0.13	0/2357	0.33	0/3202
2	ks	0.12	0/2357	0.33	0/3202
2	kt	0.13	0/2357	0.32	0/3202
2	lF	0.13	0/2357	0.31	0/3202
2	lG	0.13	0/2369	0.32	0/3219
2	lH	0.13	0/2357	0.38	2/3202 (0.1%)
2	lI	0.11	0/2357	0.29	0/3202
2	lJ	0.13	0/2357	0.33	0/3202
2	lK	0.12	0/2357	0.33	0/3202
2	lL	0.13	0/2357	0.32	0/3202
2	lT	0.13	0/2357	0.31	0/3202
2	lU	0.13	0/2369	0.32	0/3219
2	lV	0.13	0/2357	0.38	2/3202 (0.1%)
2	lW	0.11	0/2357	0.29	0/3202
2	lX	0.13	0/2357	0.33	0/3202
2	lY	0.12	0/2357	0.33	0/3202
2	lZ	0.13	0/2357	0.32	0/3202
2	ld	0.13	0/2357	0.31	0/3202
2	le	0.13	0/2369	0.32	0/3219
2	lf	0.13	0/2357	0.38	2/3202 (0.1%)
2	lg	0.11	0/2357	0.29	0/3202
2	lh	0.13	0/2357	0.33	0/3202
2	li	0.12	0/2357	0.33	0/3202

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	lj	0.13	0/2357	0.32	0/3202
2	lr	0.13	0/2357	0.31	0/3202
2	ls	0.13	0/2369	0.32	0/3219
2	lt	0.13	0/2357	0.38	2/3202 (0.1%)
2	lu	0.11	0/2357	0.29	0/3202
2	lv	0.13	0/2357	0.33	0/3202
2	lw	0.12	0/2357	0.33	0/3202
2	lx	0.13	0/2357	0.32	0/3202
2	mA	0.12	0/2357	0.33	0/3202
2	mB	0.13	0/2357	0.32	0/3202
2	mJ	0.13	0/2357	0.31	0/3202
2	mK	0.13	0/2369	0.32	0/3219
2	mL	0.13	0/2357	0.38	2/3202 (0.1%)
2	mM	0.11	0/2357	0.29	0/3202
2	mN	0.13	0/2357	0.33	0/3202
2	mO	0.12	0/2357	0.33	0/3202
2	mP	0.13	0/2357	0.32	0/3202
2	mX	0.13	0/2357	0.31	0/3202
2	mY	0.13	0/2369	0.32	0/3219
2	mZ	0.13	0/2357	0.38	2/3202 (0.1%)
2	mh	0.13	0/2357	0.31	0/3202
2	mi	0.13	0/2369	0.32	0/3219
2	mj	0.13	0/2357	0.38	2/3202 (0.1%)
2	mk	0.11	0/2357	0.29	0/3202
2	ml	0.13	0/2357	0.33	0/3202
2	mm	0.12	0/2357	0.33	0/3202
2	mn	0.13	0/2357	0.32	0/3202
2	mv	0.13	0/2357	0.31	0/3202
2	mw	0.13	0/2369	0.32	0/3219
2	mx	0.13	0/2357	0.38	2/3202 (0.1%)
2	my	0.11	0/2357	0.29	0/3202
2	mz	0.13	0/2357	0.33	0/3202
2	nA	0.13	0/2369	0.32	0/3219
2	nB	0.13	0/2357	0.38	2/3202 (0.1%)
2	nC	0.11	0/2357	0.29	0/3202
2	nD	0.13	0/2357	0.33	0/3202
2	nE	0.12	0/2357	0.33	0/3202
2	nF	0.13	0/2357	0.32	0/3202
2	nN	0.13	0/2357	0.31	0/3202
2	nO	0.13	0/2369	0.32	0/3219
2	nP	0.13	0/2357	0.38	2/3202 (0.1%)
2	nQ	0.11	0/2357	0.29	0/3202
2	nR	0.13	0/2357	0.33	0/3202

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	nS	0.12	0/2357	0.33	0/3202
2	nT	0.13	0/2357	0.32	0/3202
2	na	0.11	0/2357	0.29	0/3202
2	nb	0.13	0/2357	0.33	0/3202
2	nc	0.12	0/2357	0.33	0/3202
2	nd	0.13	0/2357	0.32	0/3202
2	nl	0.13	0/2357	0.31	0/3202
2	nm	0.13	0/2369	0.32	0/3219
2	nn	0.13	0/2357	0.38	2/3202 (0.1%)
2	no	0.11	0/2357	0.29	0/3202
2	np	0.13	0/2357	0.33	0/3202
2	nq	0.12	0/2357	0.33	0/3202
2	nr	0.13	0/2357	0.32	0/3202
2	nz	0.13	0/2357	0.31	0/3202
2	oD	0.13	0/2357	0.31	0/3202
2	oE	0.13	0/2369	0.32	0/3219
2	oF	0.13	0/2357	0.38	2/3202 (0.1%)
2	oG	0.11	0/2357	0.29	0/3202
2	oH	0.13	0/2357	0.34	0/3202
2	oI	0.12	0/2357	0.33	0/3202
2	oJ	0.13	0/2357	0.32	0/3202
2	oR	0.13	0/2357	0.31	0/3202
2	oS	0.13	0/2369	0.32	0/3219
2	oT	0.13	0/2357	0.38	2/3202 (0.1%)
2	oU	0.11	0/2357	0.29	0/3202
2	oV	0.13	0/2357	0.33	0/3202
2	oW	0.12	0/2357	0.33	0/3202
2	oX	0.13	0/2357	0.32	0/3202
2	ob	0.13	0/2357	0.31	0/3202
2	oc	0.13	0/2369	0.32	0/3219
2	od	0.13	0/2357	0.38	2/3202 (0.1%)
2	oe	0.11	0/2357	0.29	0/3202
2	of	0.13	0/2357	0.33	0/3202
2	og	0.12	0/2357	0.33	0/3202
2	oh	0.13	0/2357	0.32	0/3202
2	op	0.13	0/2357	0.31	0/3202
2	oq	0.13	0/2369	0.32	0/3219
2	or	0.13	0/2357	0.38	2/3202 (0.1%)
2	os	0.11	0/2357	0.29	0/3202
2	ot	0.13	0/2357	0.34	0/3202
2	ou	0.12	0/2357	0.33	0/3202
2	ov	0.13	0/2357	0.32	0/3202
2	pH	0.13	0/2357	0.31	0/3202

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	pI	0.13	0/2369	0.32	0/3219
2	pJ	0.13	0/2357	0.38	2/3202 (0.1%)
2	pK	0.11	0/2357	0.29	0/3202
2	pL	0.13	0/2357	0.33	0/3202
2	pM	0.12	0/2357	0.33	0/3202
2	pN	0.13	0/2357	0.32	0/3202
2	pV	0.13	0/2357	0.31	0/3202
2	pW	0.13	0/2369	0.32	0/3219
2	pX	0.13	0/2357	0.38	2/3202 (0.1%)
2	pY	0.11	0/2357	0.29	0/3202
2	pZ	0.13	0/2357	0.33	0/3202
2	pf	0.13	0/2357	0.31	0/3202
2	pg	0.13	0/2369	0.32	0/3219
2	ph	0.13	0/2357	0.38	2/3202 (0.1%)
2	pi	0.11	0/2357	0.29	0/3202
2	pj	0.13	0/2357	0.34	0/3202
2	pk	0.12	0/2357	0.33	0/3202
2	pl	0.13	0/2357	0.32	0/3202
2	pt	0.13	0/2357	0.31	0/3202
2	pu	0.13	0/2369	0.32	0/3219
2	pv	0.13	0/2357	0.38	2/3202 (0.1%)
2	pw	0.11	0/2357	0.29	0/3202
2	px	0.13	0/2357	0.33	0/3202
2	py	0.12	0/2357	0.33	0/3202
2	pz	0.13	0/2357	0.32	0/3202
2	qa	0.12	0/2357	0.33	0/3202
2	qb	0.13	0/2357	0.32	0/3202
3	qd	0.11	0/1047	0.34	0/1430
3	qe	0.11	0/1047	0.34	0/1430
3	qf	0.10	0/1047	0.34	0/1430
3	qg	0.11	0/1047	0.34	0/1430
3	qh	0.11	0/1047	0.34	0/1430
3	qi	0.11	0/1047	0.34	0/1430
4	qj	0.13	0/1909	0.31	1/2603 (0.0%)
4	qk	0.13	0/1909	0.31	1/2603 (0.0%)
4	ql	0.13	0/1909	0.31	1/2603 (0.0%)
4	qm	0.13	0/1909	0.31	1/2603 (0.0%)
4	qn	0.13	0/1909	0.31	1/2603 (0.0%)
4	qo	0.13	0/1909	0.31	1/2603 (0.0%)
5	qB	0.12	0/3224	0.27	0/4382
5	qD	0.12	0/3224	0.27	0/4382
5	qF	0.12	0/3224	0.27	0/4382
5	qH	0.12	0/3224	0.27	0/4382

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
5	qJ	0.12	0/3224	0.27	0/4382
5	qL	0.12	0/3224	0.27	0/4382
5	qp	0.12	0/3224	0.27	0/4382
5	qr	0.12	0/3224	0.27	0/4382
5	qt	0.12	0/3224	0.27	0/4382
5	qv	0.12	0/3224	0.27	0/4382
5	qx	0.12	0/3224	0.27	0/4382
5	qz	0.12	0/3224	0.27	0/4382
6	qA	0.12	0/1074	0.26	0/1462
6	qC	0.12	0/1074	0.26	0/1462
6	qE	0.11	0/1074	0.27	0/1462
6	qG	0.11	0/1074	0.27	0/1462
6	qI	0.11	0/1074	0.26	0/1462
6	qK	0.12	0/1074	0.27	0/1462
6	qM	0.11	0/1074	0.27	0/1462
6	qq	0.11	0/1074	0.26	0/1462
6	qs	0.12	0/1074	0.27	0/1462
6	qu	0.12	0/1074	0.27	0/1462
6	qw	0.11	0/1074	0.26	0/1462
6	qy	0.12	0/1074	0.27	0/1462
All	All	0.12	0/1232087	0.32	126/1670211 (0.0%)

There are no bond length outliers.

All (126) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	ii	256	PRO	N-CD-CG	-7.76	91.56	103.20
2	iY	256	PRO	N-CD-CG	-7.76	91.56	103.20
2	lt	256	PRO	N-CD-CG	-7.76	91.57	103.20
2	dG	256	PRO	N-CD-CG	-7.75	91.57	103.20
2	iw	256	PRO	N-CD-CG	-7.75	91.58	103.20
2	pV	256	PRO	N-CD-CG	-7.75	91.58	103.20
2	fO	256	PRO	N-CD-CG	-7.75	91.58	103.20
2	jO	256	PRO	N-CD-CG	-7.75	91.58	103.20
2	gq	256	PRO	N-CD-CG	-7.74	91.58	103.20
2	nB	256	PRO	N-CD-CG	-7.74	91.59	103.20
2	gE	256	PRO	N-CD-CG	-7.74	91.59	103.20
2	lH	256	PRO	N-CD-CG	-7.74	91.59	103.20
2	or	256	PRO	N-CD-CG	-7.74	91.59	103.20
2	oT	256	PRO	N-CD-CG	-7.74	91.59	103.20
2	pX	256	PRO	N-CD-CG	-7.74	91.59	103.20
2	ca	256	PRO	N-CD-CG	-7.74	91.60	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	mx	256	PRO	N-CD-CG	-7.74	91.60	103.20
2	kc	256	PRO	N-CD-CG	-7.73	91.60	103.20
2	fm	256	PRO	N-CD-CG	-7.73	91.60	103.20
2	nn	256	PRO	N-CD-CG	-7.73	91.60	103.20
2	av	256	PRO	N-CD-CG	-7.73	91.60	103.20
2	mZ	256	PRO	N-CD-CG	-7.73	91.61	103.20
2	eK	256	PRO	N-CD-CG	-7.73	91.61	103.20
2	gS	256	PRO	N-CD-CG	-7.73	91.61	103.20
2	ai	256	PRO	N-CD-CG	-7.73	91.61	103.20
2	bM	256	PRO	N-CD-CG	-7.73	91.61	103.20
2	hG	256	PRO	N-CD-CG	-7.73	91.61	103.20
2	iK	256	PRO	N-CD-CG	-7.73	91.61	103.20
2	oF	256	PRO	N-CD-CG	-7.73	91.61	103.20
2	co	256	PRO	N-CD-CG	-7.73	91.61	103.20
2	aX	256	PRO	N-CD-CG	-7.72	91.61	103.20
2	bz	256	PRO	N-CD-CG	-7.72	91.61	103.20
2	fA	256	PRO	N-CD-CG	-7.72	91.61	103.20
2	aJ	256	PRO	N-CD-CG	-7.72	91.61	103.20
2	jA	256	PRO	N-CD-CG	-7.72	91.62	103.20
2	jm	256	PRO	N-CD-CG	-7.72	91.62	103.20
2	pJ	256	PRO	N-CD-CG	-7.72	91.62	103.20
2	hU	256	PRO	N-CD-CG	-7.72	91.62	103.20
2	kD	256	PRO	N-CD-CG	-7.72	91.62	103.20
2	od	256	PRO	N-CD-CG	-7.72	91.62	103.20
2	mj	256	PRO	N-CD-CG	-7.72	91.62	103.20
2	bl	256	PRO	N-CD-CG	-7.72	91.62	103.20
2	dU	256	PRO	N-CD-CG	-7.72	91.63	103.20
2	hg	256	PRO	N-CD-CG	-7.72	91.62	103.20
2	lV	256	PRO	N-CD-CG	-7.72	91.63	103.20
2	eY	256	PRO	N-CD-CG	-7.71	91.63	103.20
2	kR	256	PRO	N-CD-CG	-7.71	91.63	103.20
2	lf	256	PRO	N-CD-CG	-7.71	91.63	103.20
2	cC	256	PRO	N-CD-CG	-7.71	91.63	103.20
2	ei	256	PRO	N-CD-CG	-7.71	91.63	103.20
2	de	256	PRO	N-CD-CG	-7.71	91.64	103.20
2	ph	256	PRO	N-CD-CG	-7.71	91.64	103.20
2	cQ	256	PRO	N-CD-CG	-7.71	91.64	103.20
2	gc	256	PRO	N-CD-CG	-7.71	91.64	103.20
2	ew	256	PRO	N-CD-CG	-7.71	91.64	103.20
2	ht	256	PRO	N-CD-CG	-7.71	91.64	103.20
2	kp	256	PRO	N-CD-CG	-7.71	91.64	103.20
2	ds	256	PRO	N-CD-CG	-7.70	91.64	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	mL	256	PRO	N-CD-CG	-7.70	91.65	103.20
2	nP	256	PRO	N-CD-CG	-7.70	91.65	103.20
2	fm	256	PRO	CA-CB-CG	-6.62	91.92	104.50
2	ii	256	PRO	CA-CB-CG	-6.62	91.93	104.50
2	av	256	PRO	CA-CB-CG	-6.61	91.94	104.50
2	pv	256	PRO	CA-CB-CG	-6.61	91.94	104.50
2	aJ	256	PRO	CA-CB-CG	-6.61	91.94	104.50
2	mx	256	PRO	CA-CB-CG	-6.61	91.94	104.50
2	co	256	PRO	CA-CB-CG	-6.61	91.95	104.50
2	cC	256	PRO	CA-CB-CG	-6.60	91.96	104.50
2	or	256	PRO	CA-CB-CG	-6.60	91.96	104.50
2	mj	256	PRO	CA-CB-CG	-6.60	91.96	104.50
2	ew	256	PRO	CA-CB-CG	-6.60	91.96	104.50
2	gc	256	PRO	CA-CB-CG	-6.60	91.96	104.50
2	gS	256	PRO	CA-CB-CG	-6.60	91.96	104.50
2	kR	256	PRO	CA-CB-CG	-6.60	91.96	104.50
2	bl	256	PRO	CA-CB-CG	-6.60	91.97	104.50
2	fA	256	PRO	CA-CB-CG	-6.60	91.96	104.50
2	gE	256	PRO	CA-CB-CG	-6.60	91.96	104.50
2	jO	256	PRO	CA-CB-CG	-6.60	91.97	104.50
2	lt	256	PRO	CA-CB-CG	-6.60	91.97	104.50
2	dU	256	PRO	CA-CB-CG	-6.59	91.97	104.50
2	iw	256	PRO	CA-CB-CG	-6.59	91.97	104.50
2	iY	256	PRO	CA-CB-CG	-6.59	91.97	104.50
2	mZ	256	PRO	CA-CB-CG	-6.59	91.97	104.50
2	hG	256	PRO	CA-CB-CG	-6.59	91.97	104.50
2	lH	256	PRO	CA-CB-CG	-6.59	91.97	104.50
2	pX	256	PRO	CA-CB-CG	-6.59	91.97	104.50
2	fO	256	PRO	CA-CB-CG	-6.59	91.97	104.50
2	od	256	PRO	CA-CB-CG	-6.59	91.97	104.50
2	ai	256	PRO	CA-CB-CG	-6.59	91.98	104.50
2	ds	256	PRO	CA-CB-CG	-6.59	91.98	104.50
2	dG	256	PRO	CA-CB-CG	-6.59	91.98	104.50
2	gq	256	PRO	CA-CB-CG	-6.59	91.98	104.50
2	iK	256	PRO	CA-CB-CG	-6.59	91.98	104.50
2	kp	256	PRO	CA-CB-CG	-6.59	91.98	104.50
2	jA	256	PRO	CA-CB-CG	-6.59	91.98	104.50
2	oF	256	PRO	CA-CB-CG	-6.59	91.98	104.50
2	hg	256	PRO	CA-CB-CG	-6.58	91.99	104.50
2	nB	256	PRO	CA-CB-CG	-6.58	91.99	104.50
2	bM	256	PRO	CA-CB-CG	-6.58	91.99	104.50
2	hU	256	PRO	CA-CB-CG	-6.58	91.99	104.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	mL	256	PRO	CA-CB-CG	-6.58	91.99	104.50
2	cQ	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	kD	256	PRO	CA-CB-CG	-6.58	91.99	104.50
2	nn	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	oT	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	pJ	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	de	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	jm	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	aX	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	ei	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	eY	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	ph	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	kc	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	ca	256	PRO	CA-CB-CG	-6.58	92.00	104.50
2	ht	256	PRO	CA-CB-CG	-6.58	92.01	104.50
2	nP	256	PRO	CA-CB-CG	-6.58	92.01	104.50
2	bz	256	PRO	CA-CB-CG	-6.57	92.01	104.50
2	eK	256	PRO	CA-CB-CG	-6.57	92.01	104.50
2	lf	256	PRO	CA-CB-CG	-6.57	92.02	104.50
2	lV	256	PRO	CA-CB-CG	-6.56	92.03	104.50
4	qm	212	PRO	CA-N-CD	-5.73	103.98	112.00
4	qj	212	PRO	CA-N-CD	-5.71	104.01	112.00
4	qk	212	PRO	CA-N-CD	-5.70	104.02	112.00
4	qo	212	PRO	CA-N-CD	-5.69	104.03	112.00
4	qn	212	PRO	CA-N-CD	-5.69	104.03	112.00
4	ql	212	PRO	CA-N-CD	-5.69	104.04	112.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	aA	433	0	411	43	0
1	aB	433	0	411	52	0
1	aC	433	0	411	94	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	aD	433	0	411	50	0
1	aE	433	0	411	29	0
1	aF	433	0	411	55	0
1	aG	433	0	411	55	0
1	aO	433	0	411	58	0
1	aP	433	0	411	51	0
1	aQ	433	0	411	93	0
1	aR	433	0	411	51	0
1	aS	433	0	411	29	0
1	aT	433	0	411	57	0
1	aU	433	0	411	53	0
1	aa	433	0	411	52	0
1	ab	433	0	411	94	0
1	ac	433	0	411	49	0
1	ad	433	0	411	29	0
1	ae	433	0	411	55	0
1	af	433	0	411	53	0
1	an	433	0	411	57	0
1	ao	433	0	411	52	0
1	ap	433	0	411	94	0
1	aq	433	0	411	51	0
1	ar	433	0	411	23	0
1	as	433	0	411	56	0
1	at	433	0	411	45	0
1	bE	433	0	411	58	0
1	bF	433	0	411	52	0
1	bG	433	0	411	94	0
1	bH	433	0	411	53	0
1	bI	433	0	411	23	0
1	bJ	433	0	411	54	0
1	bK	433	0	411	59	0
1	bR	433	0	411	41	0
1	bS	433	0	411	49	0
1	bT	433	0	411	94	0
1	bU	433	0	411	52	0
1	bV	433	0	411	28	0
1	bW	433	0	411	55	0
1	bX	433	0	411	54	0
1	bc	433	0	411	56	0
1	bd	433	0	411	51	0
1	be	433	0	411	96	0
1	bf	433	0	411	49	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	bg	433	0	411	29	0
1	bh	433	0	411	55	0
1	bi	433	0	411	53	0
1	bq	433	0	411	57	0
1	br	433	0	411	52	0
1	bs	433	0	411	96	0
1	bt	433	0	411	50	0
1	bu	433	0	411	29	0
1	bv	433	0	411	55	0
1	bw	433	0	411	55	0
1	cH	433	0	411	56	0
1	cI	433	0	411	50	0
1	cJ	433	0	411	90	0
1	cK	433	0	411	52	0
1	cL	433	0	411	29	0
1	cM	433	0	411	56	0
1	cN	433	0	411	53	0
1	cV	433	0	411	56	0
1	cW	433	0	411	51	0
1	cX	433	0	411	92	0
1	cY	433	0	411	52	0
1	cZ	433	0	411	30	0
1	cf	433	0	411	55	0
1	cg	433	0	411	52	0
1	ch	433	0	411	92	0
1	ci	433	0	411	49	0
1	cj	433	0	411	30	0
1	ck	433	0	411	54	0
1	cl	433	0	411	55	0
1	ct	433	0	411	58	0
1	cu	433	0	411	53	0
1	cv	433	0	411	93	0
1	cw	433	0	411	52	0
1	cx	433	0	411	29	0
1	cy	433	0	411	55	0
1	cz	433	0	411	50	0
1	dA	433	0	411	53	0
1	dB	433	0	411	29	0
1	dC	433	0	411	56	0
1	dD	433	0	411	53	0
1	dL	433	0	411	57	0
1	dM	433	0	411	51	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	dN	433	0	411	96	0
1	dO	433	0	411	54	0
1	dP	433	0	411	29	0
1	dQ	433	0	411	55	0
1	dR	433	0	411	56	0
1	dZ	433	0	411	59	0
1	da	433	0	411	55	0
1	db	433	0	411	52	0
1	dj	433	0	411	57	0
1	dk	433	0	411	50	0
1	dl	433	0	411	95	0
1	dm	433	0	411	53	0
1	dn	433	0	411	29	0
1	do	433	0	411	55	0
1	dp	433	0	411	54	0
1	dx	433	0	411	57	0
1	dy	433	0	411	53	0
1	dz	433	0	411	89	0
1	eB	433	0	411	59	0
1	eC	433	0	411	52	0
1	eD	433	0	411	92	0
1	eE	433	0	411	52	0
1	eF	433	0	411	30	0
1	eG	433	0	411	57	0
1	eH	433	0	411	53	0
1	eP	433	0	411	58	0
1	eQ	433	0	411	53	0
1	eR	433	0	411	96	0
1	eS	433	0	411	50	0
1	eT	433	0	411	30	0
1	eU	433	0	411	57	0
1	eV	433	0	411	52	0
1	ea	433	0	411	52	0
1	eb	433	0	411	95	0
1	ec	433	0	411	53	0
1	ed	433	0	411	29	0
1	ee	433	0	411	54	0
1	ef	433	0	411	53	0
1	en	433	0	411	59	0
1	eo	433	0	411	51	0
1	ep	433	0	411	94	0
1	eq	433	0	411	50	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	er	433	0	411	29	0
1	es	433	0	411	56	0
1	et	433	0	411	55	0
1	fF	433	0	411	59	0
1	fG	433	0	411	49	0
1	fH	433	0	411	93	0
1	fI	433	0	411	52	0
1	fJ	433	0	411	28	0
1	fK	433	0	411	55	0
1	fL	433	0	411	56	0
1	fT	433	0	411	57	0
1	fU	433	0	411	51	0
1	fV	433	0	411	97	0
1	fW	433	0	411	49	0
1	fX	433	0	411	29	0
1	fY	433	0	411	56	0
1	fZ	433	0	411	54	0
1	fd	433	0	411	57	0
1	fe	433	0	411	51	0
1	ff	433	0	411	97	0
1	fg	433	0	411	52	0
1	fh	433	0	411	29	0
1	fi	433	0	411	56	0
1	fj	433	0	411	55	0
1	fr	433	0	411	57	0
1	fs	433	0	411	51	0
1	ft	433	0	411	98	0
1	fu	433	0	411	51	0
1	fv	433	0	411	29	0
1	fw	433	0	411	56	0
1	fx	433	0	411	52	0
1	gA	433	0	411	55	0
1	gB	433	0	411	54	0
1	gJ	433	0	411	58	0
1	gK	433	0	411	54	0
1	gL	433	0	411	94	0
1	gM	433	0	411	51	0
1	gN	433	0	411	29	0
1	gO	433	0	411	55	0
1	gP	433	0	411	53	0
1	gX	433	0	411	57	0
1	gY	433	0	411	52	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	gZ	433	0	411	95	0
1	gh	433	0	411	59	0
1	gi	433	0	411	50	0
1	gj	433	0	411	93	0
1	gk	433	0	411	52	0
1	gl	433	0	411	29	0
1	gm	433	0	411	56	0
1	gn	433	0	411	52	0
1	gv	433	0	411	57	0
1	gw	433	0	411	53	0
1	gx	433	0	411	92	0
1	gy	433	0	411	49	0
1	gz	433	0	411	29	0
1	hA	433	0	411	94	0
1	hB	433	0	411	54	0
1	hC	433	0	411	22	0
1	hD	433	0	411	54	0
1	hE	433	0	411	51	0
1	hL	433	0	411	44	0
1	hM	433	0	411	52	0
1	hN	433	0	411	96	0
1	hO	433	0	411	53	0
1	hP	433	0	411	29	0
1	hQ	433	0	411	55	0
1	hR	433	0	411	54	0
1	hZ	433	0	411	57	0
1	ha	433	0	411	51	0
1	hb	433	0	411	29	0
1	hc	433	0	411	55	0
1	hd	433	0	411	54	0
1	hl	433	0	411	57	0
1	hm	433	0	411	51	0
1	hn	433	0	411	93	0
1	ho	433	0	411	52	0
1	hp	433	0	411	23	0
1	hq	433	0	411	55	0
1	hr	433	0	411	53	0
1	hy	433	0	411	45	0
1	hz	433	0	411	53	0
1	iB	433	0	411	58	0
1	iC	433	0	411	49	0
1	iD	433	0	411	93	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	iE	433	0	411	50	0
1	iF	433	0	411	30	0
1	iG	433	0	411	57	0
1	iH	433	0	411	53	0
1	iP	433	0	411	55	0
1	iQ	433	0	411	51	0
1	iR	433	0	411	94	0
1	iS	433	0	411	51	0
1	iT	433	0	411	29	0
1	iU	433	0	411	56	0
1	iV	433	0	411	53	0
1	ia	433	0	411	51	0
1	ib	433	0	411	94	0
1	ic	433	0	411	52	0
1	id	433	0	411	29	0
1	ie	433	0	411	54	0
1	if	433	0	411	55	0
1	in	433	0	411	57	0
1	io	433	0	411	51	0
1	ip	433	0	411	92	0
1	iq	433	0	411	53	0
1	ir	433	0	411	29	0
1	is	433	0	411	55	0
1	it	433	0	411	56	0
1	jF	433	0	411	59	0
1	jG	433	0	411	51	0
1	jH	433	0	411	94	0
1	jI	433	0	411	51	0
1	jJ	433	0	411	29	0
1	jK	433	0	411	55	0
1	jL	433	0	411	57	0
1	jT	433	0	411	59	0
1	jU	433	0	411	50	0
1	jV	433	0	411	93	0
1	jW	433	0	411	52	0
1	jX	433	0	411	29	0
1	jY	433	0	411	54	0
1	jZ	433	0	411	55	0
1	jd	433	0	411	57	0
1	je	433	0	411	51	0
1	jf	433	0	411	92	0
1	jg	433	0	411	52	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	jh	433	0	411	29	0
1	ji	433	0	411	55	0
1	jj	433	0	411	52	0
1	jr	433	0	411	57	0
1	js	433	0	411	53	0
1	jt	433	0	411	93	0
1	ju	433	0	411	50	0
1	jv	433	0	411	27	0
1	jw	433	0	411	54	0
1	jx	433	0	411	52	0
1	kA	433	0	411	52	0
1	kI	433	0	411	58	0
1	kJ	433	0	411	52	0
1	kK	433	0	411	94	0
1	kL	433	0	411	50	0
1	kM	433	0	411	30	0
1	kN	433	0	411	56	0
1	kO	433	0	411	54	0
1	kW	433	0	411	56	0
1	kX	433	0	411	53	0
1	kY	433	0	411	90	0
1	kZ	433	0	411	54	0
1	kh	433	0	411	59	0
1	ki	433	0	411	51	0
1	kj	433	0	411	97	0
1	kk	433	0	411	53	0
1	kl	433	0	411	23	0
1	km	433	0	411	56	0
1	kn	433	0	411	43	0
1	ku	433	0	411	43	0
1	kv	433	0	411	52	0
1	kw	433	0	411	94	0
1	kx	433	0	411	52	0
1	ky	433	0	411	29	0
1	kz	433	0	411	54	0
1	lA	433	0	411	93	0
1	lB	433	0	411	51	0
1	lC	433	0	411	29	0
1	lD	433	0	411	57	0
1	lE	433	0	411	52	0
1	lM	433	0	411	58	0
1	lN	433	0	411	50	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	lO	433	0	411	95	0
1	lP	433	0	411	52	0
1	lQ	433	0	411	29	0
1	lR	433	0	411	55	0
1	lS	433	0	411	53	0
1	la	433	0	411	29	0
1	lb	433	0	411	55	0
1	lc	433	0	411	55	0
1	lk	433	0	411	56	0
1	ll	433	0	411	51	0
1	lm	433	0	411	93	0
1	ln	433	0	411	51	0
1	lo	433	0	411	30	0
1	lp	433	0	411	56	0
1	lq	433	0	411	52	0
1	ly	433	0	411	58	0
1	lz	433	0	411	51	0
1	mC	433	0	411	57	0
1	mD	433	0	411	51	0
1	mE	433	0	411	91	0
1	mF	433	0	411	50	0
1	mG	433	0	411	29	0
1	mH	433	0	411	55	0
1	mI	433	0	411	51	0
1	mQ	433	0	411	57	0
1	mR	433	0	411	52	0
1	mS	433	0	411	92	0
1	mT	433	0	411	51	0
1	mU	433	0	411	29	0
1	mV	433	0	411	56	0
1	mW	433	0	411	53	0
1	ma	433	0	411	58	0
1	mb	433	0	411	51	0
1	mc	433	0	411	95	0
1	md	433	0	411	51	0
1	me	433	0	411	29	0
1	mf	433	0	411	55	0
1	mg	433	0	411	56	0
1	mo	433	0	411	59	0
1	mp	433	0	411	51	0
1	mq	433	0	411	94	0
1	mr	433	0	411	52	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	ms	433	0	411	28	0
1	mt	433	0	411	57	0
1	mu	433	0	411	56	0
1	nG	433	0	411	58	0
1	nH	433	0	411	52	0
1	nI	433	0	411	94	0
1	nJ	433	0	411	51	0
1	nK	433	0	411	30	0
1	nL	433	0	411	58	0
1	nM	433	0	411	55	0
1	nU	433	0	411	58	0
1	nV	433	0	411	53	0
1	nW	433	0	411	93	0
1	nX	433	0	411	52	0
1	nY	433	0	411	29	0
1	nZ	433	0	411	53	0
1	ne	433	0	411	56	0
1	nf	433	0	411	51	0
1	ng	433	0	411	95	0
1	nh	433	0	411	52	0
1	ni	433	0	411	30	0
1	nj	433	0	411	56	0
1	nk	433	0	411	53	0
1	ns	433	0	411	57	0
1	nt	433	0	411	51	0
1	nu	433	0	411	94	0
1	nv	433	0	411	51	0
1	nw	433	0	411	29	0
1	nx	433	0	411	54	0
1	ny	433	0	411	54	0
1	oA	433	0	411	29	0
1	oB	433	0	411	54	0
1	oC	433	0	411	53	0
1	oK	433	0	411	56	0
1	oL	433	0	411	50	0
1	oM	433	0	411	93	0
1	oN	433	0	411	51	0
1	oO	433	0	411	28	0
1	oP	433	0	411	55	0
1	oQ	433	0	411	54	0
1	oY	433	0	411	60	0
1	oZ	433	0	411	52	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	oa	433	0	411	54	0
1	oi	433	0	411	58	0
1	oj	433	0	411	50	0
1	ok	433	0	411	93	0
1	ol	433	0	411	51	0
1	om	433	0	411	29	0
1	on	433	0	411	55	0
1	oo	433	0	411	53	0
1	ow	433	0	411	57	0
1	ox	433	0	411	51	0
1	oy	433	0	411	92	0
1	oz	433	0	411	51	0
1	pA	433	0	411	58	0
1	pB	433	0	411	53	0
1	pC	433	0	411	95	0
1	pD	433	0	411	50	0
1	pE	433	0	411	29	0
1	pF	433	0	411	54	0
1	pG	433	0	411	53	0
1	pO	433	0	411	61	0
1	pP	433	0	411	52	0
1	pQ	433	0	411	92	0
1	pR	433	0	411	53	0
1	pS	433	0	411	30	0
1	pT	433	0	411	55	0
1	pU	433	0	411	56	0
1	pa	433	0	411	94	0
1	pb	433	0	411	50	0
1	pc	433	0	411	29	0
1	pd	433	0	411	55	0
1	pe	433	0	411	54	0
1	pm	433	0	411	55	0
1	pn	433	0	411	52	0
1	po	433	0	411	94	0
1	pp	433	0	411	50	0
1	pq	433	0	411	29	0
1	pr	433	0	411	54	0
1	ps	433	0	411	53	0
1	qc	433	0	411	57	0
2	aH	2305	0	2250	91	0
2	aI	2317	0	2257	138	0
2	aJ	2305	0	2250	119	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	aK	2305	0	2250	85	0
2	aL	2305	0	2250	89	0
2	aM	2305	0	2250	98	0
2	aN	2305	0	2247	104	0
2	aV	2305	0	2250	96	0
2	aW	2317	0	2257	141	0
2	aX	2305	0	2250	116	0
2	aY	2305	0	2250	87	0
2	aZ	2305	0	2250	90	0
2	ag	2305	0	2250	94	0
2	ah	2317	0	2257	143	0
2	ai	2305	0	2250	118	0
2	aj	2305	0	2250	89	0
2	ak	2305	0	2250	93	0
2	al	2305	0	2250	95	0
2	am	2305	0	2247	103	0
2	au	2305	0	2248	117	0
2	av	2305	0	2250	118	0
2	aw	2305	0	2250	89	0
2	ax	2305	0	2250	92	0
2	ay	2305	0	2250	92	0
2	az	2305	0	2247	144	0
2	bA	2305	0	2250	91	0
2	bB	2305	0	2250	92	0
2	bC	2305	0	2250	96	0
2	bD	2305	0	2247	104	0
2	bL	2305	0	2250	109	0
2	bM	2305	0	2250	117	0
2	bN	2305	0	2250	86	0
2	bO	2305	0	2250	94	0
2	bP	2305	0	2250	94	0
2	bQ	2305	0	2244	151	0
2	bY	2305	0	2250	92	0
2	bZ	2317	0	2257	144	0
2	ba	2305	0	2250	94	0
2	bb	2305	0	2247	104	0
2	bj	2305	0	2250	91	0
2	bk	2317	0	2257	139	0
2	bl	2305	0	2250	119	0
2	bm	2305	0	2250	86	0
2	bn	2305	0	2250	95	0
2	bo	2305	0	2250	94	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	bp	2305	0	2247	102	0
2	bx	2305	0	2250	93	0
2	by	2317	0	2257	143	0
2	bz	2305	0	2250	118	0
2	cA	2305	0	2250	94	0
2	cB	2317	0	2257	144	0
2	cC	2305	0	2250	119	0
2	cD	2305	0	2250	91	0
2	cE	2305	0	2250	92	0
2	cF	2305	0	2250	95	0
2	cG	2305	0	2247	103	0
2	cO	2305	0	2250	95	0
2	cP	2317	0	2257	145	0
2	cQ	2305	0	2250	117	0
2	cR	2305	0	2250	88	0
2	cS	2305	0	2250	89	0
2	cT	2305	0	2250	92	0
2	cU	2305	0	2247	105	0
2	ca	2305	0	2250	118	0
2	cb	2305	0	2250	87	0
2	cc	2305	0	2250	90	0
2	cd	2305	0	2250	93	0
2	ce	2305	0	2247	100	0
2	cm	2305	0	2250	90	0
2	cn	2317	0	2257	142	0
2	co	2305	0	2250	117	0
2	cp	2305	0	2250	88	0
2	cq	2305	0	2250	90	0
2	cr	2305	0	2250	95	0
2	cs	2305	0	2247	101	0
2	dE	2305	0	2250	91	0
2	dF	2317	0	2257	144	0
2	dG	2305	0	2250	118	0
2	dH	2305	0	2250	90	0
2	dI	2305	0	2250	89	0
2	dJ	2305	0	2250	95	0
2	dK	2305	0	2247	104	0
2	dS	2305	0	2250	91	0
2	dT	2317	0	2257	142	0
2	dU	2305	0	2250	120	0
2	dV	2305	0	2250	89	0
2	dW	2305	0	2250	94	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	dX	2305	0	2250	93	0
2	dY	2305	0	2247	106	0
2	dc	2305	0	2250	91	0
2	dd	2317	0	2257	144	0
2	de	2305	0	2250	115	0
2	df	2305	0	2250	87	0
2	dg	2305	0	2250	93	0
2	dh	2305	0	2250	94	0
2	di	2305	0	2247	106	0
2	dq	2305	0	2250	89	0
2	dr	2317	0	2257	143	0
2	ds	2305	0	2250	119	0
2	dt	2305	0	2250	88	0
2	du	2305	0	2250	89	0
2	dv	2305	0	2250	93	0
2	dw	2305	0	2247	104	0
2	eA	2305	0	2247	104	0
2	eI	2305	0	2250	93	0
2	eJ	2317	0	2257	145	0
2	eK	2305	0	2250	115	0
2	eL	2305	0	2250	88	0
2	eM	2305	0	2250	90	0
2	eN	2305	0	2250	97	0
2	eO	2305	0	2247	102	0
2	eW	2305	0	2250	98	0
2	eX	2317	0	2257	142	0
2	eY	2305	0	2250	116	0
2	eZ	2305	0	2250	88	0
2	eg	2305	0	2250	88	0
2	eh	2317	0	2257	139	0
2	ei	2305	0	2250	114	0
2	ej	2305	0	2250	87	0
2	ek	2305	0	2250	91	0
2	el	2305	0	2250	92	0
2	em	2305	0	2247	107	0
2	eu	2305	0	2250	94	0
2	ev	2317	0	2257	145	0
2	ew	2305	0	2250	115	0
2	ex	2305	0	2250	89	0
2	ey	2305	0	2250	92	0
2	ez	2305	0	2250	93	0
2	fA	2305	0	2250	119	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	fB	2305	0	2250	89	0
2	fC	2305	0	2250	94	0
2	fD	2305	0	2250	92	0
2	fE	2305	0	2247	102	0
2	fM	2305	0	2250	93	0
2	fN	2317	0	2257	147	0
2	fO	2305	0	2250	117	0
2	fP	2305	0	2250	87	0
2	fQ	2305	0	2250	86	0
2	fR	2305	0	2250	92	0
2	fS	2305	0	2247	102	0
2	fa	2305	0	2250	91	0
2	fb	2305	0	2250	94	0
2	fc	2305	0	2247	106	0
2	fk	2305	0	2250	86	0
2	fl	2317	0	2257	146	0
2	fm	2305	0	2250	120	0
2	fn	2305	0	2250	89	0
2	fo	2305	0	2250	92	0
2	fp	2305	0	2250	90	0
2	fq	2305	0	2247	105	0
2	fy	2305	0	2250	92	0
2	fz	2317	0	2257	144	0
2	gC	2305	0	2250	90	0
2	gD	2317	0	2257	143	0
2	gE	2305	0	2250	116	0
2	gF	2305	0	2250	84	0
2	gG	2305	0	2250	92	0
2	gH	2305	0	2250	92	0
2	gI	2305	0	2247	101	0
2	gQ	2305	0	2250	92	0
2	gR	2317	0	2257	144	0
2	gS	2305	0	2250	115	0
2	gT	2305	0	2250	91	0
2	gU	2305	0	2250	91	0
2	gV	2305	0	2250	94	0
2	gW	2305	0	2247	102	0
2	ga	2305	0	2250	92	0
2	gb	2317	0	2257	147	0
2	gc	2305	0	2250	119	0
2	gd	2305	0	2250	86	0
2	ge	2305	0	2250	91	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	gf	2305	0	2250	94	0
2	gg	2305	0	2247	97	0
2	go	2305	0	2250	93	0
2	gp	2317	0	2257	143	0
2	gq	2305	0	2250	119	0
2	gr	2305	0	2250	88	0
2	gs	2305	0	2250	91	0
2	gt	2305	0	2250	94	0
2	gu	2305	0	2247	103	0
2	hF	2305	0	2250	153	0
2	hG	2305	0	2250	115	0
2	hH	2305	0	2250	89	0
2	hI	2305	0	2250	90	0
2	hJ	2305	0	2250	92	0
2	hK	2305	0	2247	117	0
2	hS	2305	0	2250	92	0
2	hT	2317	0	2257	142	0
2	hU	2305	0	2250	118	0
2	hV	2305	0	2250	87	0
2	hW	2305	0	2250	90	0
2	hX	2305	0	2250	96	0
2	hY	2305	0	2247	102	0
2	he	2305	0	2250	90	0
2	hf	2317	0	2257	144	0
2	hg	2305	0	2250	118	0
2	hh	2305	0	2250	90	0
2	hi	2305	0	2250	93	0
2	hj	2305	0	2250	97	0
2	hk	2305	0	2247	106	0
2	hs	2305	0	2249	176	0
2	ht	2305	0	2250	116	0
2	hu	2305	0	2250	88	0
2	hv	2305	0	2250	89	0
2	hw	2305	0	2250	98	0
2	hx	2305	0	2245	180	0
2	iA	2305	0	2247	102	0
2	iI	2305	0	2250	94	0
2	iJ	2317	0	2257	141	0
2	iK	2305	0	2250	116	0
2	iL	2305	0	2250	88	0
2	iM	2305	0	2250	89	0
2	iN	2305	0	2250	93	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	iO	2305	0	2247	102	0
2	iW	2305	0	2250	89	0
2	iX	2317	0	2257	145	0
2	iY	2305	0	2250	116	0
2	iZ	2305	0	2250	91	0
2	ig	2305	0	2250	88	0
2	ih	2317	0	2257	146	0
2	ii	2305	0	2250	118	0
2	ij	2305	0	2250	88	0
2	ik	2305	0	2250	89	0
2	il	2305	0	2250	95	0
2	im	2305	0	2247	102	0
2	iu	2305	0	2250	89	0
2	iv	2317	0	2257	145	0
2	iw	2305	0	2250	115	0
2	ix	2305	0	2250	88	0
2	iy	2305	0	2250	88	0
2	iz	2305	0	2250	94	0
2	jA	2305	0	2250	115	0
2	jB	2305	0	2250	88	0
2	jC	2305	0	2250	92	0
2	jD	2305	0	2250	93	0
2	jE	2305	0	2247	105	0
2	jM	2305	0	2250	90	0
2	jN	2317	0	2257	142	0
2	jO	2305	0	2250	117	0
2	jP	2305	0	2250	89	0
2	jQ	2305	0	2250	87	0
2	jR	2305	0	2250	97	0
2	jS	2305	0	2247	104	0
2	ja	2305	0	2250	90	0
2	jb	2305	0	2250	91	0
2	jc	2305	0	2247	103	0
2	jk	2305	0	2250	93	0
2	jl	2317	0	2257	141	0
2	jm	2305	0	2250	117	0
2	jn	2305	0	2250	88	0
2	jo	2305	0	2250	91	0
2	jp	2305	0	2250	95	0
2	jq	2305	0	2247	106	0
2	jy	2305	0	2250	92	0
2	jz	2317	0	2257	141	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	kB	2305	0	2250	91	0
2	kC	2317	0	2257	142	0
2	kD	2305	0	2250	113	0
2	kE	2305	0	2250	89	0
2	kF	2305	0	2250	89	0
2	kG	2305	0	2250	93	0
2	kH	2305	0	2247	105	0
2	kP	2305	0	2250	95	0
2	kQ	2317	0	2257	144	0
2	kR	2305	0	2250	115	0
2	kS	2305	0	2250	85	0
2	kT	2305	0	2250	90	0
2	kU	2305	0	2250	93	0
2	kV	2305	0	2247	103	0
2	ka	2305	0	2250	95	0
2	kb	2317	0	2257	139	0
2	kc	2305	0	2250	116	0
2	kd	2305	0	2250	90	0
2	ke	2305	0	2250	95	0
2	kf	2305	0	2250	94	0
2	kg	2305	0	2247	102	0
2	ko	2305	0	2250	155	0
2	kp	2305	0	2250	117	0
2	kq	2305	0	2250	88	0
2	kr	2305	0	2250	89	0
2	ks	2305	0	2250	95	0
2	kt	2305	0	2245	156	0
2	lF	2305	0	2250	92	0
2	lG	2317	0	2257	144	0
2	lH	2305	0	2250	119	0
2	lI	2305	0	2250	90	0
2	lJ	2305	0	2250	92	0
2	lK	2305	0	2250	95	0
2	lL	2305	0	2247	106	0
2	lT	2305	0	2250	91	0
2	lU	2317	0	2257	142	0
2	lV	2305	0	2250	117	0
2	lW	2305	0	2250	87	0
2	lX	2305	0	2250	89	0
2	lY	2305	0	2250	94	0
2	lZ	2305	0	2247	102	0
2	ld	2305	0	2250	90	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	le	2317	0	2257	145	0
2	lf	2305	0	2250	119	0
2	lg	2305	0	2250	86	0
2	lh	2305	0	2250	95	0
2	li	2305	0	2250	94	0
2	lj	2305	0	2247	103	0
2	lr	2305	0	2250	92	0
2	ls	2317	0	2257	144	0
2	lt	2305	0	2250	116	0
2	lu	2305	0	2250	86	0
2	lv	2305	0	2250	94	0
2	lw	2305	0	2250	91	0
2	lx	2305	0	2247	104	0
2	mA	2305	0	2250	92	0
2	mB	2305	0	2247	103	0
2	mJ	2305	0	2250	88	0
2	mK	2317	0	2257	142	0
2	mL	2305	0	2250	118	0
2	mM	2305	0	2250	87	0
2	mN	2305	0	2250	92	0
2	mO	2305	0	2250	93	0
2	mP	2305	0	2247	102	0
2	mX	2305	0	2250	92	0
2	mY	2317	0	2257	143	0
2	mZ	2305	0	2250	116	0
2	mh	2305	0	2250	93	0
2	mi	2317	0	2257	145	0
2	mj	2305	0	2250	114	0
2	mk	2305	0	2250	86	0
2	ml	2305	0	2250	88	0
2	mm	2305	0	2250	94	0
2	mn	2305	0	2247	103	0
2	mv	2305	0	2250	96	0
2	mw	2317	0	2257	142	0
2	mx	2305	0	2250	122	0
2	my	2305	0	2250	87	0
2	mz	2305	0	2250	92	0
2	nA	2317	0	2257	145	0
2	nB	2305	0	2250	117	0
2	nC	2305	0	2250	89	0
2	nD	2305	0	2250	91	0
2	nE	2305	0	2250	96	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	nF	2305	0	2247	102	0
2	nN	2305	0	2250	90	0
2	nO	2317	0	2257	141	0
2	nP	2305	0	2250	116	0
2	nQ	2305	0	2250	89	0
2	nR	2305	0	2250	92	0
2	nS	2305	0	2250	94	0
2	nT	2305	0	2247	103	0
2	na	2305	0	2250	86	0
2	nb	2305	0	2250	93	0
2	nc	2305	0	2250	91	0
2	nd	2305	0	2247	98	0
2	nl	2305	0	2250	91	0
2	nm	2317	0	2257	143	0
2	nn	2305	0	2250	115	0
2	no	2305	0	2250	87	0
2	np	2305	0	2250	91	0
2	nq	2305	0	2250	97	0
2	nr	2305	0	2247	107	0
2	nz	2305	0	2250	90	0
2	oD	2305	0	2250	92	0
2	oE	2317	0	2257	139	0
2	oF	2305	0	2250	117	0
2	oG	2305	0	2250	89	0
2	oH	2305	0	2250	92	0
2	oI	2305	0	2250	97	0
2	oJ	2305	0	2247	104	0
2	oR	2305	0	2250	92	0
2	oS	2317	0	2257	146	0
2	oT	2305	0	2250	116	0
2	oU	2305	0	2250	86	0
2	oV	2305	0	2250	93	0
2	oW	2305	0	2250	96	0
2	oX	2305	0	2247	103	0
2	ob	2305	0	2250	95	0
2	oc	2317	0	2257	141	0
2	od	2305	0	2250	117	0
2	oe	2305	0	2250	90	0
2	of	2305	0	2250	91	0
2	og	2305	0	2250	96	0
2	oh	2305	0	2247	104	0
2	op	2305	0	2250	92	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	oq	2317	0	2257	145	0
2	or	2305	0	2250	117	0
2	os	2305	0	2250	89	0
2	ot	2305	0	2250	92	0
2	ou	2305	0	2250	95	0
2	ov	2305	0	2247	103	0
2	pH	2305	0	2250	92	0
2	pI	2317	0	2257	140	0
2	pJ	2305	0	2250	118	0
2	pK	2305	0	2250	86	0
2	pL	2305	0	2250	92	0
2	pM	2305	0	2250	95	0
2	pN	2305	0	2247	109	0
2	pV	2305	0	2250	93	0
2	pW	2317	0	2257	142	0
2	pX	2305	0	2250	119	0
2	pY	2305	0	2250	90	0
2	pZ	2305	0	2250	92	0
2	pf	2305	0	2250	92	0
2	pg	2317	0	2257	140	0
2	ph	2305	0	2250	116	0
2	pi	2305	0	2250	88	0
2	pj	2305	0	2250	92	0
2	pk	2305	0	2250	92	0
2	pl	2305	0	2247	107	0
2	pt	2305	0	2250	91	0
2	pu	2317	0	2257	142	0
2	pv	2305	0	2250	117	0
2	pw	2305	0	2250	87	0
2	px	2305	0	2250	92	0
2	py	2305	0	2250	94	0
2	pz	2305	0	2247	101	0
2	qa	2305	0	2250	92	0
2	qb	2305	0	2247	108	0
3	qd	1023	1013	1008	172	0
3	qe	1023	1013	1009	170	0
3	qf	1023	1013	1010	174	0
3	qg	1023	1013	1010	174	0
3	qh	1023	1013	1010	176	0
3	qi	1023	1013	1009	175	0
4	qj	1871	1896	1885	249	0
4	qk	1871	1896	1884	246	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	ql	1871	1896	1883	244	0
4	qm	1871	1896	1883	233	0
4	qn	1871	1896	1883	232	0
4	qo	1871	1896	1883	236	0
5	qB	3151	0	3100	268	0
5	qD	3151	0	3094	271	0
5	qF	3151	0	3100	247	0
5	qH	3151	0	3100	249	0
5	qJ	3151	0	3100	245	0
5	qL	3151	0	3098	224	0
5	qP	3151	0	3099	262	0
5	qR	3151	0	3100	225	0
5	qT	3151	0	3099	227	0
5	qV	3151	0	3100	254	0
5	qX	3151	0	3099	241	0
5	qZ	3151	0	3100	273	0
6	qA	1056	0	1057	127	0
6	qC	1056	0	1059	138	0
6	qE	1056	0	1057	126	0
6	qG	1056	0	1059	139	0
6	qI	1056	0	1056	133	0
6	qK	1056	0	1059	123	0
6	qM	1056	0	1057	133	0
6	qQ	1056	0	1059	129	0
6	qS	1056	0	1057	136	0
6	qU	1056	0	1059	132	0
6	qW	1056	0	1057	143	0
6	qY	1056	0	1059	129	0
All	All	1206943	17454	1173806	50754	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 21.

All (50754) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qB:394:ILE:CD1	5:qD:405:ILE:HG21	1.23	1.68
5:qD:394:ILE:CD1	5:qF:405:ILE:HG21	1.23	1.67
5:qZ:394:ILE:CD1	5:qB:405:ILE:HG21	1.23	1.66
5:qX:394:ILE:CD1	5:qZ:405:ILE:HG21	1.23	1.64
1:hn:60:ARG:CZ	1:kK:99:LEU:CD1	1.76	1.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:be:99:LEU:CD1	1:iR:60:ARG:CZ	1.76	1.63
5:qt:394:ILE:CD1	5:qv:405:ILE:HG21	1.23	1.63
5:qF:394:ILE:CD1	5:qH:405:ILE:HG21	1.23	1.63
1:ep:60:ARG:CZ	1:pa:99:LEU:CD1	1.76	1.63
5:qv:394:ILE:CD1	5:qx:405:ILE:HG21	1.23	1.63
1:dN:99:LEU:CD1	1:pC:60:ARG:CZ	1.76	1.63
1:jt:60:ARG:CZ	1:jV:99:LEU:CD1	1.76	1.63
5:qr:394:ILE:CD1	5:qt:405:ILE:HG21	1.23	1.63
1:fH:99:LEU:CD1	1:gZ:60:ARG:CZ	1.76	1.63
1:mc:99:LEU:CD1	1:nu:60:ARG:CZ	1.76	1.63
1:be:60:ARG:CZ	1:kj:99:LEU:CD1	1.76	1.62
1:cv:60:ARG:CZ	1:pC:99:LEU:CD1	1.76	1.62
1:aC:99:LEU:CD1	1:kK:60:ARG:CZ	1.76	1.62
1:kY:99:LEU:CD1	1:oy:60:ARG:CZ	1.76	1.61
1:ap:99:LEU:CD1	1:hN:60:ARG:CZ	1.76	1.61
1:gZ:99:LEU:CD1	1:mq:60:ARG:CZ	1.76	1.61
3:qg:61:ASP:HA	4:qk:33:SER:CB	1.24	1.61
1:ep:99:LEU:CD1	1:nI:60:ARG:CZ	1.76	1.61
5:qp:394:ILE:CD1	5:qr:405:ILE:HG21	1.23	1.61
2:ko:31:TYR:CE2	5:qF:178:PRO:HD3	1.21	1.61
1:lA:60:ARG:CZ	1:oy:99:LEU:CD1	1.76	1.60
1:eD:99:LEU:CD1	1:ib:60:ARG:CZ	1.76	1.60
1:hA:60:ARG:CZ	1:lO:99:LEU:CD1	1.76	1.60
5:qH:394:ILE:CD1	5:qJ:405:ILE:HG21	1.23	1.60
1:eD:60:ARG:CZ	1:ff:99:LEU:CD1	1.76	1.60
1:ip:60:ARG:CZ	1:lm:99:LEU:CD1	1.76	1.60
1:fV:60:ARG:CZ	1:nu:99:LEU:CD1	1.76	1.59
1:iR:99:LEU:CD1	1:kj:60:ARG:CZ	1.76	1.59
1:ok:60:ARG:CZ	1:oM:99:LEU:CD1	1.76	1.59
2:az:103:MET:HE2	5:qJ:32:PHE:CD2	1.08	1.59
1:aQ:99:LEU:CD1	1:ch:60:ARG:CZ	1.76	1.58
1:bT:60:ARG:CZ	1:eR:99:LEU:CD1	1.76	1.58
1:kY:60:ARG:CZ	1:lA:99:LEU:CD1	1.76	1.58
1:nI:99:LEU:CD1	1:pa:60:ARG:CZ	1.76	1.58
1:dl:60:ARG:CZ	1:hN:99:LEU:CD1	1.76	1.58
2:hF:32:LEU:CD1	5:qv:178:PRO:CG	1.78	1.58
1:ft:99:LEU:CD1	1:nW:60:ARG:CZ	1.76	1.58
1:jt:99:LEU:CD1	1:mS:60:ARG:CZ	1.76	1.58
5:qp:405:ILE:HG21	5:qL:394:ILE:CD1	1.23	1.57
1:ap:60:ARG:CZ	1:dl:99:LEU:CD1	1.76	1.57
3:qd:61:ASP:HA	4:qn:33:SER:CB	1.17	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cX:99:LEU:CD1	1:gx:60:ARG:CZ	1.76	1.57
1:eb:99:LEU:CD1	1:ft:60:ARG:CZ	1.76	1.57
1:fH:60:ARG:CZ	1:mq:99:LEU:CD1	1.76	1.57
1:fV:99:LEU:CD1	1:mc:60:ARG:CZ	1.76	1.57
1:cv:99:LEU:CD1	1:dN:60:ARG:CZ	1.76	1.57
1:gj:60:ARG:CZ	1:gL:99:LEU:CD1	1.76	1.57
5:qJ:394:ILE:CD1	5:qL:405:ILE:HG21	1.23	1.57
2:hF:32:LEU:HD13	5:qv:178:PRO:CD	1.13	1.57
1:iD:60:ARG:CZ	1:po:99:LEU:CD1	1.76	1.57
1:mE:60:ARG:CZ	1:ng:99:LEU:CD1	1.76	1.57
1:lm:60:ARG:CZ	1:pQ:99:LEU:CD1	1.76	1.56
1:ch:99:LEU:CD1	1:jf:60:ARG:CZ	1.76	1.56
1:cJ:60:ARG:CZ	1:iD:99:LEU:CD1	1.76	1.56
1:cX:60:ARG:CZ	1:dz:99:LEU:CD1	1.76	1.56
1:ip:99:LEU:CD1	1:pQ:60:ARG:CZ	1.76	1.56
1:ab:60:ARG:CZ	1:mE:99:LEU:CD1	1.76	1.56
1:eb:60:ARG:CZ	1:nW:99:LEU:CD1	1.76	1.56
1:dz:60:ARG:CZ	1:gx:99:LEU:CD1	1.76	1.55
1:jV:60:ARG:CZ	1:mS:99:LEU:CD1	1.76	1.55
3:qi:61:ASP:HA	4:qo:33:SER:CB	1.33	1.55
1:bs:60:ARG:CZ	1:bT:99:LEU:CD1	1.76	1.55
1:cJ:99:LEU:CD1	1:po:60:ARG:CZ	1.76	1.55
2:az:103:MET:CE	5:qJ:32:PHE:CD2	1.82	1.55
1:jH:99:LEU:CD1	1:oM:60:ARG:CZ	1.76	1.55
1:aC:60:ARG:CZ	1:hn:99:LEU:CD1	1.76	1.54
1:bG:60:ARG:CZ	1:gj:99:LEU:CD1	1.76	1.54
1:hA:99:LEU:CD1	1:kw:60:ARG:CZ	1.76	1.54
1:jH:60:ARG:CZ	1:ok:99:LEU:CD1	1.76	1.54
1:aQ:60:ARG:CZ	1:jf:99:LEU:CD1	1.76	1.54
1:bs:99:LEU:CD1	1:eR:60:ARG:CZ	1.76	1.54
1:kw:99:LEU:CD1	1:lO:60:ARG:CZ	1.76	1.54
1:bG:99:LEU:CD1	1:gL:60:ARG:CZ	1.76	1.54
1:ff:60:ARG:CZ	1:ib:99:LEU:CD1	1.76	1.54
2:ko:31:TYR:CZ	5:qF:178:PRO:HD3	1.44	1.53
3:qh:61:ASP:HA	4:qj:33:SER:CB	1.33	1.53
2:bQ:97:GLY:HA2	5:qp:51:GLU:CD	1.28	1.52
3:qe:61:ASP:HA	4:qm:33:SER:CB	1.05	1.52
1:ab:99:LEU:CD1	1:ng:60:ARG:CZ	1.76	1.52
3:qf:61:ASP:HA	4:ql:33:SER:CB	1.07	1.52
3:qh:66:GLN:N	4:qj:10:GLN:HG2	1.19	1.51
3:qe:61:ASP:CA	4:qm:33:SER:CB	1.88	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hx:95:ASN:HB2	5:qz:47:ARG:CZ	1.41	1.50
3:qf:61:ASP:CA	4:ql:33:SER:CB	1.89	1.50
2:hs:184:TYR:CE1	5:qB:178:PRO:HA	1.46	1.49
2:hF:32:LEU:CD1	5:qv:178:PRO:CD	1.87	1.48
1:aU:99:LEU:CD2	1:iP:102:GLU:HG2	1.45	1.47
1:aA:102:GLU:HG2	1:kn:99:LEU:CD2	1.45	1.47
1:cf:102:GLU:HG2	1:iH:99:LEU:CD2	1.45	1.47
1:eB:102:GLU:HG2	1:gB:99:LEU:CD2	1.45	1.47
1:jd:102:GLU:HG2	1:jj:99:LEU:CD2	1.45	1.47
1:nk:99:LEU:CD2	1:oK:102:GLU:HG2	1.45	1.47
1:dR:99:LEU:CD2	1:oY:102:GLU:HG2	1.45	1.47
1:be:60:ARG:NH2	1:kj:99:LEU:HD21	1.30	1.47
1:gX:102:GLU:HG2	1:lS:99:LEU:CD2	1.45	1.47
1:jH:60:ARG:NH2	1:ok:99:LEU:HD21	1.30	1.47
1:oo:99:LEU:CD2	1:qc:102:GLU:HG2	1.45	1.47
1:bE:102:GLU:HG2	1:hR:99:LEU:CD2	1.45	1.47
2:bZ:282:ARG:NH1	2:iJ:282:ARG:NH2	1.63	1.47
2:dF:282:ARG:NH1	2:pg:282:ARG:NH2	1.63	1.47
1:en:102:GLU:HG2	1:et:99:LEU:CD2	1.45	1.47
3:qd:67:ARG:N	4:qn:194:LEU:HD12	1.24	1.47
1:fj:99:LEU:CD2	1:gJ:102:GLU:HG2	1.45	1.46
1:fL:99:LEU:CD2	1:ma:102:GLU:HG2	1.45	1.46
1:gn:99:LEU:CD2	1:hZ:102:GLU:HG2	1.45	1.46
1:ip:60:ARG:NH2	1:lm:99:LEU:HD21	1.30	1.46
1:nI:99:LEU:HD21	1:pa:60:ARG:NH2	1.30	1.46
1:cl:99:LEU:CD2	1:iB:102:GLU:HG2	1.45	1.46
1:cJ:60:ARG:NH2	1:iD:99:LEU:HD21	1.30	1.46
2:eh:282:ARG:NH1	2:ev:282:ARG:NH2	1.63	1.46
1:jZ:99:LEU:CD2	1:ly:102:GLU:HG2	1.45	1.46
3:qi:68:ALA:CB	4:qn:222:GLY:O	1.64	1.46
1:cz:99:LEU:CD2	1:pm:102:GLU:HG2	1.45	1.46
2:fl:282:ARG:NH1	2:nA:282:ARG:NH2	1.63	1.46
1:gP:99:LEU:CD2	1:in:102:GLU:HG2	1.45	1.46
2:hF:282:ARG:NH2	2:IG:282:ARG:NH1	1.63	1.46
1:ch:99:LEU:HD21	1:jf:60:ARG:NH2	1.30	1.46
1:ef:99:LEU:CD2	1:nG:102:GLU:HG2	1.45	1.46
1:fx:99:LEU:CD2	1:ns:102:GLU:HG2	1.45	1.46
2:mw:282:ARG:NH1	2:oE:282:ARG:NH2	1.63	1.46
2:pu:282:ARG:NH1	2:pI:282:ARG:NH2	1.63	1.46
1:it:99:LEU:CD2	1:jT:102:GLU:HG2	1.45	1.46
1:aG:99:LEU:CD2	1:kh:102:GLU:HG2	1.45	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fr:102:GLU:HG2	1:ny:99:LEU:CD2	1.45	1.45
1:jF:102:GLU:HG2	1:pU:99:LEU:CD2	1.45	1.45
1:kI:102:GLU:HG2	1:kO:99:LEU:CD2	1.45	1.45
2:dT:282:ARG:NH2	2:oS:282:ARG:NH1	1.63	1.45
2:gR:282:ARG:NH1	2:lU:282:ARG:NH2	1.63	1.45
1:kY:99:LEU:HD11	1:oy:60:ARG:CZ	0.97	1.45
1:lm:60:ARG:NH2	1:pQ:99:LEU:HD21	1.30	1.45
3:qf:67:ARG:N	4:ql:194:LEU:CD1	1.78	1.45
2:by:282:ARG:NH2	2:dd:282:ARG:NH1	1.63	1.45
1:dl:60:ARG:NH2	1:hN:99:LEU:HD21	1.30	1.45
1:fH:99:LEU:HD11	1:gZ:60:ARG:CZ	0.97	1.45
1:gj:60:ARG:CZ	1:gL:99:LEU:HD11	0.97	1.45
1:gj:60:ARG:NH2	1:gL:99:LEU:HD21	1.30	1.45
1:ip:60:ARG:CZ	1:lm:99:LEU:HD11	0.97	1.45
1:kW:102:GLU:HG2	1:mW:99:LEU:CD2	1.45	1.45
1:lE:99:LEU:CD2	1:ne:102:GLU:HG2	1.45	1.45
1:mc:99:LEU:HD11	1:nu:60:ARG:CZ	0.97	1.45
1:mI:99:LEU:CD2	1:ow:102:GLU:HG2	1.45	1.45
2:aI:282:ARG:NH1	2:iX:282:ARG:NH2	1.63	1.45
1:bq:102:GLU:HG2	1:dp:99:LEU:CD2	1.45	1.45
1:bs:99:LEU:HD11	1:eR:60:ARG:CZ	0.97	1.45
1:bw:99:LEU:CD2	1:dj:102:GLU:HG2	1.45	1.45
1:ct:102:GLU:HG2	1:ps:99:LEU:CD2	1.45	1.45
2:cB:282:ARG:NH2	2:pg:282:ARG:NH1	1.63	1.45
1:cH:102:GLU:HG2	1:cN:99:LEU:CD2	1.45	1.45
1:cX:99:LEU:HD11	1:gx:60:ARG:CZ	0.97	1.45
1:dD:99:LEU:CD2	1:fd:102:GLU:HG2	1.45	1.45
1:dN:99:LEU:HD11	1:pC:60:ARG:CZ	0.97	1.45
1:ep:99:LEU:HD21	1:nI:60:ARG:NH2	1.30	1.45
2:fz:282:ARG:NH2	2:nm:282:ARG:NH1	1.63	1.45
1:fH:60:ARG:CZ	1:mq:99:LEU:HD11	0.97	1.45
2:ko:188:MET:CE	5:qH:176:ASN:ND2	1.77	1.45
1:aQ:99:LEU:HD11	1:ch:60:ARG:CZ	0.98	1.45
1:bT:60:ARG:NH2	1:eR:99:LEU:HD21	1.30	1.45
1:ch:99:LEU:HD11	1:jf:60:ARG:CZ	0.97	1.45
1:dN:99:LEU:CD1	1:pC:60:ARG:NE	1.80	1.45
1:fV:99:LEU:HD11	1:mc:60:ARG:CZ	0.97	1.45
2:iv:282:ARG:NH2	2:jN:282:ARG:NH1	1.63	1.45
2:jl:282:ARG:NH1	2:ls:282:ARG:NH2	1.63	1.45
1:nU:102:GLU:HG2	1:oa:99:LEU:CD2	1.45	1.45
1:be:60:ARG:CZ	1:kj:99:LEU:HD11	0.97	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bG:99:LEU:HD21	1:gL:60:ARG:NH2	1.30	1.44
1:bT:60:ARG:CZ	1:eR:99:LEU:HD11	0.97	1.44
1:dN:99:LEU:HD21	1:pC:60:ARG:NH2	1.30	1.44
1:eD:60:ARG:CZ	1:ff:99:LEU:HD11	0.97	1.44
1:eD:60:ARG:NE	1:ff:99:LEU:CD1	1.80	1.44
1:ft:99:LEU:CD1	1:nW:60:ARG:NE	1.80	1.44
2:gp:282:ARG:NH2	2:hT:282:ARG:NH1	1.63	1.44
1:jH:99:LEU:HD11	1:oM:60:ARG:CZ	0.97	1.44
1:kw:99:LEU:HD11	1:lO:60:ARG:CZ	0.97	1.44
1:lc:99:LEU:CD2	1:mQ:102:GLU:HG2	1.45	1.44
2:mK:282:ARG:NH2	2:oq:282:ARG:NH1	1.63	1.44
1:bG:99:LEU:CD1	1:gL:60:ARG:NE	1.80	1.44
2:bQ:107:GLY:CA	5:qp:176:ASN:HD22	1.30	1.44
1:bX:99:LEU:CD2	1:dx:102:GLU:HG2	1.45	1.44
2:cn:282:ARG:NH2	2:iv:282:ARG:NH1	1.63	1.44
1:cJ:60:ARG:NE	1:iD:99:LEU:CD1	1.80	1.44
1:db:99:LEU:CD2	1:eP:102:GLU:HG2	1.45	1.44
1:dL:102:GLU:HG2	1:pe:99:LEU:CD2	1.45	1.44
1:eD:99:LEU:HD11	1:ib:60:ARG:CZ	0.97	1.44
2:gb:282:ARG:NH1	2:ih:282:ARG:NH2	1.64	1.44
1:ip:99:LEU:HD11	1:pQ:60:ARG:CZ	0.97	1.44
1:iD:60:ARG:NH2	1:po:99:LEU:HD21	1.30	1.44
1:iR:99:LEU:HD21	1:kj:60:ARG:NH2	1.30	1.44
1:jr:102:GLU:HG2	1:lq:99:LEU:CD2	1.45	1.44
1:jt:99:LEU:HD21	1:mS:60:ARG:NH2	1.30	1.44
2:jz:282:ARG:NH1	2:pW:282:ARG:NH2	1.63	1.44
1:jH:60:ARG:CZ	1:ok:99:LEU:HD11	0.97	1.44
1:jV:60:ARG:CZ	1:mS:99:LEU:HD11	0.97	1.44
1:kY:60:ARG:NH2	1:lA:99:LEU:HD21	1.30	1.44
2:le:282:ARG:NH2	2:mK:282:ARG:NH1	1.63	1.44
2:ah:282:ARG:NH1	2:oS:282:ARG:NH2	1.63	1.44
1:ap:60:ARG:CZ	1:dl:99:LEU:HD11	0.97	1.44
1:aO:102:GLU:HG2	1:iV:99:LEU:CD2	1.45	1.44
2:by:282:ARG:NH1	2:hT:282:ARG:NH2	1.63	1.44
1:cJ:60:ARG:CZ	1:iD:99:LEU:HD11	0.97	1.44
1:dl:60:ARG:CZ	1:hN:99:LEU:HD11	0.97	1.44
1:fF:102:GLU:HG2	1:mg:99:LEU:CD2	1.45	1.44
1:hl:102:GLU:HG2	1:kA:99:LEU:CD2	1.45	1.44
1:hA:99:LEU:HD11	1:kw:60:ARG:CZ	0.97	1.44
1:ip:60:ARG:NE	1:lm:99:LEU:CD1	1.80	1.44
1:jt:60:ARG:CZ	1:jV:99:LEU:HD11	0.97	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jx:99:LEU:CD2	1:lk:102:GLU:HG2	1.45	1.44
2:kC:282:ARG:NH1	2:kQ:282:ARG:NH2	1.63	1.44
1:mE:60:ARG:CZ	1:ng:99:LEU:HD11	0.97	1.44
1:cV:102:GLU:HG2	1:eV:99:LEU:CD2	1.45	1.44
1:cX:60:ARG:CZ	1:dz:99:LEU:HD11	0.97	1.44
1:iD:60:ARG:CZ	1:po:99:LEU:HD11	0.97	1.44
1:jt:99:LEU:HD11	1:mS:60:ARG:CZ	0.97	1.44
1:jL:99:LEU:CD2	1:pO:102:GLU:HG2	1.45	1.44
1:ok:60:ARG:NE	1:oM:99:LEU:CD1	1.80	1.44
1:af:99:LEU:CD2	1:oi:102:GLU:HG2	1.45	1.44
1:ap:99:LEU:CD1	1:hN:60:ARG:NE	1.80	1.44
1:bK:99:LEU:CD2	1:hL:102:GLU:HG2	1.45	1.44
1:dz:60:ARG:CZ	1:gx:99:LEU:HD11	0.97	1.44
1:eb:60:ARG:CZ	1:nW:99:LEU:HD11	0.97	1.44
2:eJ:282:ARG:NH2	2:gp:282:ARG:NH1	1.63	1.44
1:ft:99:LEU:HD11	1:nW:60:ARG:CZ	0.97	1.44
2:fN:282:ARG:NH2	2:IU:282:ARG:NH1	1.63	1.44
1:hn:60:ARG:NE	1:kK:99:LEU:CD1	1.80	1.44
2:kb:282:ARG:NH2	2:ls:282:ARG:NH1	1.63	1.44
1:aC:99:LEU:HD11	1:kK:60:ARG:CZ	0.97	1.43
1:aQ:99:LEU:CD1	1:ch:60:ARG:NE	1.80	1.43
1:gh:102:GLU:HG2	1:if:99:LEU:CD2	1.45	1.43
1:hr:99:LEU:CD2	1:ku:102:GLU:HG2	1.45	1.43
2:hs:107:GLY:N	5:qB:178:PRO:HD3	1.11	1.43
2:hx:95:ASN:HB2	5:qz:47:ARG:NH2	1.26	1.43
1:jV:60:ARG:NH2	1:mS:99:LEU:HD21	1.30	1.43
1:kY:60:ARG:CZ	1:lA:99:LEU:HD11	0.97	1.43
1:ap:99:LEU:HD11	1:hN:60:ARG:CZ	0.97	1.43
1:aC:60:ARG:NH2	1:hn:99:LEU:HD21	1.30	1.43
1:bG:99:LEU:HD11	1:gL:60:ARG:CZ	0.97	1.43
2:dF:282:ARG:NH2	2:eX:282:ARG:NH1	1.63	1.43
1:ep:99:LEU:CD1	1:nI:60:ARG:NE	1.80	1.43
1:ep:99:LEU:HD11	1:nI:60:ARG:CZ	0.97	1.43
1:ff:60:ARG:CZ	1:ib:99:LEU:HD11	0.98	1.43
1:fT:102:GLU:HG2	1:fZ:99:LEU:CD2	1.45	1.43
1:hA:60:ARG:NE	1:lO:99:LEU:CD1	1.80	1.43
1:jH:60:ARG:NE	1:ok:99:LEU:CD1	1.80	1.43
1:kw:99:LEU:HD21	1:lO:60:ARG:NH2	1.30	1.43
1:lm:60:ARG:CZ	1:pQ:99:LEU:HD11	0.97	1.43
1:lm:60:ARG:NE	1:pQ:99:LEU:CD1	1.80	1.43
1:at:99:LEU:CD2	1:bR:102:GLU:HG2	1.45	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aC:60:ARG:CZ	1:hn:99:LEU:HD11	0.97	1.43
1:aQ:60:ARG:CZ	1:jf:99:LEU:HD11	0.97	1.43
1:bG:60:ARG:NH2	1:gj:99:LEU:HD21	1.30	1.43
2:dT:282:ARG:NH1	2:nO:282:ARG:NH2	1.63	1.43
1:dZ:102:GLU:HG2	1:nM:99:LEU:CD2	1.45	1.43
1:eH:99:LEU:CD2	1:gv:102:GLU:HG2	1.45	1.43
1:pA:102:GLU:HG2	1:pG:99:LEU:CD2	1.45	1.43
1:bs:60:ARG:CZ	1:bT:99:LEU:HD11	0.97	1.43
1:bG:60:ARG:CZ	1:gj:99:LEU:HD11	0.97	1.43
1:cJ:99:LEU:HD11	1:po:60:ARG:CZ	0.97	1.43
1:dz:60:ARG:NH2	1:gx:99:LEU:HD21	1.30	1.43
1:eb:60:ARG:NH2	1:nW:99:LEU:HD21	1.30	1.43
1:eb:99:LEU:HD11	1:ft:60:ARG:CZ	0.97	1.43
1:gj:60:ARG:NE	1:gL:99:LEU:CD1	1.80	1.43
1:gZ:99:LEU:HD11	1:mq:60:ARG:CZ	0.97	1.43
1:hy:102:GLU:HG2	1:hE:99:LEU:CD2	1.45	1.43
1:iR:99:LEU:CD1	1:kj:60:ARG:NE	1.80	1.43
1:lA:60:ARG:CZ	1:oy:99:LEU:HD11	0.97	1.43
1:mo:102:GLU:HG2	1:mu:99:LEU:CD2	1.45	1.43
1:ab:60:ARG:NH2	1:mE:99:LEU:HD21	1.30	1.43
1:be:99:LEU:HD11	1:iR:60:ARG:CZ	0.97	1.43
2:bk:282:ARG:NH1	2:dr:282:ARG:NH2	1.63	1.43
1:bT:60:ARG:NE	1:eR:99:LEU:CD1	1.80	1.43
2:bZ:282:ARG:NH2	2:dr:282:ARG:NH1	1.63	1.43
1:cv:99:LEU:HD21	1:dN:60:ARG:NH2	1.30	1.43
1:eb:99:LEU:HD21	1:ft:60:ARG:NH2	1.30	1.43
1:hn:60:ARG:CZ	1:kK:99:LEU:HD11	0.97	1.43
2:hs:182:LEU:CD1	5:qB:176:ASN:HA	1.48	1.43
1:mC:102:GLU:HG2	1:oC:99:LEU:CD2	1.45	1.43
1:ab:99:LEU:HD11	1:ng:60:ARG:CZ	0.97	1.42
1:an:102:GLU:HG2	1:oQ:99:LEU:CD2	1.45	1.42
1:cv:60:ARG:CZ	1:pC:99:LEU:HD11	0.97	1.42
1:cv:99:LEU:CD1	1:dN:60:ARG:NE	1.80	1.42
2:fl:282:ARG:NH2	2:gD:282:ARG:NH1	1.63	1.42
1:hd:99:LEU:CD2	1:lM:102:GLU:HG2	1.45	1.42
1:hn:60:ARG:NH2	1:kK:99:LEU:HD21	1.30	1.42
1:iD:60:ARG:NE	1:po:99:LEU:CD1	1.80	1.42
1:ok:60:ARG:CZ	1:oM:99:LEU:HD11	0.97	1.42
1:ab:99:LEU:HD21	1:ng:60:ARG:NH2	1.30	1.42
1:bc:102:GLU:HG2	1:bi:99:LEU:CD2	1.45	1.42
1:bs:99:LEU:CD1	1:eR:60:ARG:NE	1.80	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dl:60:ARG:NE	1:hN:99:LEU:CD1	1.80	1.42
1:fV:60:ARG:CZ	1:nu:99:LEU:HD11	0.97	1.42
1:hA:60:ARG:CZ	1:lO:99:LEU:HD11	0.97	1.42
3:qe:67:ARG:N	4:qm:194:LEU:HD12	1.11	1.42
1:fH:60:ARG:NH2	1:mQ:99:LEU:HD21	1.30	1.42
1:lA:60:ARG:NE	1:oy:99:LEU:CD1	1.80	1.42
1:nI:99:LEU:HD11	1:pa:60:ARG:CZ	0.97	1.42
3:qd:84:TYR:CE1	6:qs:20:GLU:CD	1.95	1.42
1:ab:60:ARG:CZ	1:mE:99:LEU:HD11	0.97	1.42
1:be:99:LEU:HD21	1:iR:60:ARG:NH2	1.30	1.42
1:ep:60:ARG:CZ	1:pa:99:LEU:HD11	0.97	1.42
2:ev:282:ARG:NH1	2:gD:282:ARG:NH2	1.63	1.42
2:hF:282:ARG:NH1	2:kC:282:ARG:NH2	1.63	1.42
1:jT:60:ARG:NE	1:jV:99:LEU:CD1	1.80	1.42
2:jN:282:ARG:NH2	2:pI:282:ARG:NH1	1.63	1.42
3:qh:67:ARG:N	4:qJ:194:LEU:HD12	1.34	1.42
1:aQ:99:LEU:HD21	1:ch:60:ARG:NH2	1.30	1.42
2:aW:282:ARG:NH1	2:bk:282:ARG:NH2	1.63	1.42
1:bs:99:LEU:HD21	1:eR:60:ARG:NH2	1.30	1.42
2:eh:282:ARG:NH2	2:nA:282:ARG:NH1	1.63	1.42
1:ok:60:ARG:NH2	1:oM:99:LEU:HD21	1.30	1.42
3:qh:65:GLY:CA	4:qJ:9:GLY:O	1.66	1.42
2:cn:282:ARG:NH1	2:pu:282:ARG:NH2	1.63	1.41
1:cX:99:LEU:HD21	1:gx:60:ARG:NH2	1.30	1.41
2:dd:282:ARG:NH2	2:eJ:282:ARG:NH1	1.63	1.41
2:fz:282:ARG:NH1	2:mi:282:ARG:NH2	1.63	1.41
1:iR:99:LEU:HD11	1:kj:60:ARG:CZ	0.97	1.41
1:mE:60:ARG:NE	1:ng:99:LEU:CD1	1.80	1.41
2:aW:282:ARG:NH2	2:iJ:282:ARG:NH1	1.63	1.41
1:cv:99:LEU:HD11	1:dN:60:ARG:CZ	0.97	1.41
1:gZ:99:LEU:HD21	1:mQ:60:ARG:NH2	1.30	1.41
1:ip:99:LEU:HD21	1:pQ:60:ARG:NH2	1.30	1.41
2:iX:282:ARG:NH1	2:jl:282:ARG:NH2	1.63	1.41
2:kt:107:GLY:O	5:qD:178:PRO:CG	1.63	1.41
2:kQ:282:ARG:NH1	2:mY:282:ARG:NH2	1.63	1.41
3:qg:67:ARG:N	4:qk:194:LEU:HD12	1.23	1.41
1:cv:60:ARG:NE	1:pC:99:LEU:CD1	1.80	1.41
1:jT:99:LEU:CD1	1:mS:60:ARG:NE	1.80	1.41
1:lA:60:ARG:NH2	1:oy:99:LEU:HD21	1.30	1.41
3:qd:61:ASP:CA	4:qn:33:SER:CB	1.98	1.41
1:ab:60:ARG:NH1	1:mE:99:LEU:HD11	1.36	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aI:282:ARG:NH2	2:kb:282:ARG:NH1	1.63	1.41
1:be:60:ARG:NE	1:kj:99:LEU:CD1	1.80	1.41
1:be:99:LEU:CD1	1:iR:60:ARG:NE	1.80	1.41
1:bG:99:LEU:HD11	1:gL:60:ARG:NH1	1.36	1.41
2:jz:282:ARG:NH2	2:le:282:ARG:NH1	1.63	1.41
3:qe:66:GLN:N	4:qm:10:GLN:HG2	1.31	1.41
1:bG:60:ARG:NH1	1:gj:99:LEU:HD11	1.36	1.41
1:ep:60:ARG:NH2	1:pa:99:LEU:HD21	1.30	1.41
1:fH:99:LEU:CD1	1:gZ:60:ARG:NE	1.80	1.41
1:gj:60:ARG:NH1	1:gL:99:LEU:HD11	1.36	1.41
1:hA:99:LEU:HD21	1:kw:60:ARG:NH2	1.30	1.41
2:kt:108:ARG:HA	5:qD:178:PRO:CB	1.48	1.41
3:qf:66:GLN:N	4:ql:10:GLN:HG2	1.20	1.41
2:cB:282:ARG:NH1	2:cP:282:ARG:NH2	1.63	1.40
1:eD:60:ARG:NH2	1:ff:99:LEU:HD21	1.30	1.40
1:ff:60:ARG:NH2	1:ib:99:LEU:HD21	1.30	1.40
1:fV:99:LEU:HD21	1:mc:60:ARG:NH2	1.30	1.40
1:hA:60:ARG:NH1	1:lO:99:LEU:HD11	1.36	1.40
1:mE:60:ARG:NH2	1:ng:99:LEU:HD21	1.30	1.40
1:ap:99:LEU:HD11	1:hN:60:ARG:NH1	1.36	1.40
2:hx:96:LEU:CD2	5:qz:47:ARG:CD	2.00	1.40
1:jt:60:ARG:NH2	1:jV:99:LEU:HD21	1.30	1.40
2:kt:108:ARG:CA	5:qD:178:PRO:HB3	1.52	1.40
1:mE:60:ARG:NH1	1:ng:99:LEU:HD11	1.36	1.40
1:aC:60:ARG:NE	1:hn:99:LEU:CD1	1.80	1.40
2:bQ:107:GLY:C	5:qp:176:ASN:HB3	1.42	1.40
1:fV:99:LEU:CD1	1:mc:60:ARG:NE	1.80	1.40
1:kw:99:LEU:HD11	1:lO:60:ARG:NH1	1.36	1.40
1:nI:99:LEU:CD1	1:pa:60:ARG:NE	1.80	1.40
2:bQ:107:GLY:HA3	5:qp:176:ASN:ND2	1.35	1.40
1:ff:60:ARG:NE	1:ib:99:LEU:CD1	1.80	1.40
1:ft:99:LEU:HD21	1:nW:60:ARG:NH2	1.30	1.40
2:fN:282:ARG:NH1	2:gb:282:ARG:NH2	1.63	1.40
1:jH:99:LEU:HD11	1:oM:60:ARG:NH1	1.36	1.40
2:ko:31:TYR:CE2	5:qF:178:PRO:CD	2.00	1.40
1:mc:99:LEU:CD1	1:nu:60:ARG:NE	1.80	1.40
1:ab:60:ARG:NE	1:mE:99:LEU:CD1	1.80	1.40
1:ab:99:LEU:HD11	1:ng:60:ARG:NH1	1.36	1.40
2:bL:107:GLY:O	5:qr:178:PRO:CG	1.69	1.40
1:ch:99:LEU:CD1	1:jf:60:ARG:NE	1.80	1.40
2:cP:282:ARG:NH1	2:eX:282:ARG:NH2	1.63	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cX:60:ARG:NE	1:dz:99:LEU:CD1	1.80	1.40
1:ep:60:ARG:NE	1:pa:99:LEU:CD1	1.80	1.40
1:ft:99:LEU:HD11	1:nW:60:ARG:NH1	1.36	1.40
1:kY:99:LEU:CD1	1:oy:60:ARG:NE	1.80	1.40
1:bw:99:LEU:HD11	1:dj:102:GLU:OE2	1.22	1.39
1:cv:60:ARG:NH2	1:pC:99:LEU:HD21	1.30	1.39
1:eD:99:LEU:HD11	1:ib:60:ARG:NH1	1.36	1.39
1:jH:99:LEU:CD1	1:oM:60:ARG:NE	1.80	1.39
2:mi:282:ARG:NH1	2:mw:282:ARG:NH2	1.63	1.39
1:ap:99:LEU:HD21	1:hN:60:ARG:NH2	1.30	1.39
1:dZ:102:GLU:OE2	1:nM:99:LEU:HD11	1.22	1.39
1:eb:60:ARG:NE	1:nW:99:LEU:CD1	1.80	1.39
1:eD:60:ARG:NH1	1:ff:99:LEU:HD11	1.36	1.39
1:kw:99:LEU:CD1	1:lO:60:ARG:NE	1.80	1.39
1:mc:99:LEU:HD21	1:nu:60:ARG:NH2	1.30	1.39
2:nm:282:ARG:NH2	2:oE:282:ARG:NH1	1.63	1.39
1:ok:60:ARG:NH1	1:oM:99:LEU:HD11	1.36	1.39
2:ah:282:ARG:NH2	2:oc:282:ARG:NH1	1.63	1.39
1:ap:60:ARG:NH1	1:dl:99:LEU:HD11	1.36	1.39
1:be:60:ARG:NH1	1:kj:99:LEU:HD11	1.36	1.39
1:cJ:99:LEU:CD1	1:po:60:ARG:NE	1.80	1.39
1:cX:60:ARG:NH2	1:dz:99:LEU:HD21	1.30	1.39
1:cX:99:LEU:CD1	1:gx:60:ARG:NE	1.80	1.39
1:dl:60:ARG:NH1	1:hN:99:LEU:HD11	1.36	1.39
1:eb:99:LEU:HD11	1:ft:60:ARG:NH1	1.36	1.39
1:hA:99:LEU:HD11	1:kw:60:ARG:NH1	1.36	1.39
2:hK:104:GLN:OE1	5:qv:32:PHE:CE2	1.76	1.39
1:eb:99:LEU:CD1	1:ft:60:ARG:NE	1.80	1.39
2:hs:107:GLY:H	5:qB:178:PRO:CD	1.34	1.39
1:jH:60:ARG:NH1	1:ok:99:LEU:HD11	1.36	1.39
1:jV:60:ARG:NE	1:mS:99:LEU:CD1	1.80	1.39
1:kY:60:ARG:NE	1:lA:99:LEU:CD1	1.80	1.39
1:eD:99:LEU:CD1	1:ib:60:ARG:NE	1.80	1.39
2:gR:282:ARG:NH2	2:ih:282:ARG:NH1	1.63	1.39
1:hn:60:ARG:NH1	1:kK:99:LEU:HD11	1.36	1.39
3:qd:66:GLN:N	4:qn:10:GLN:HG2	1.36	1.39
3:qg:66:GLN:N	4:qk:10:GLN:HG2	1.12	1.39
1:ap:60:ARG:NH2	1:dl:99:LEU:HD21	1.30	1.38
1:ap:60:ARG:NE	1:dl:99:LEU:CD1	1.80	1.38
1:aQ:60:ARG:NE	1:jf:99:LEU:CD1	1.80	1.38
1:aQ:60:ARG:NH2	1:jf:99:LEU:HD21	1.30	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bs:60:ARG:NE	1:bT:99:LEU:CD1	1.80	1.38
1:bs:60:ARG:NH2	1:bT:99:LEU:HD21	1.30	1.38
1:fH:60:ARG:NH1	1:mq:99:LEU:HD11	1.36	1.38
1:kY:99:LEU:HD21	1:oy:60:ARG:NH2	1.30	1.38
1:bs:60:ARG:NH1	1:bT:99:LEU:HD11	1.36	1.38
1:cv:99:LEU:HD11	1:dN:60:ARG:NH1	1.36	1.38
1:cJ:99:LEU:HD21	1:po:60:ARG:NH2	1.30	1.38
1:fV:60:ARG:NE	1:nu:99:LEU:CD1	1.80	1.38
1:gZ:99:LEU:CD1	1:mq:60:ARG:NE	1.80	1.38
2:hF:32:LEU:HD13	5:qv:178:PRO:CG	0.91	1.38
1:kY:60:ARG:NH1	1:lA:99:LEU:HD11	1.36	1.38
3:qi:65:GLY:CA	4:qo:9:GLY:O	1.69	1.38
1:ep:99:LEU:HD11	1:nI:60:ARG:NH1	1.36	1.38
1:fV:60:ARG:NH1	1:nu:99:LEU:HD11	1.36	1.38
3:qd:68:ALA:CB	4:qm:222:GLY:O	1.72	1.38
1:aC:99:LEU:CD1	1:kK:60:ARG:NE	1.80	1.38
1:bG:60:ARG:NE	1:gj:99:LEU:CD1	1.80	1.38
1:dN:99:LEU:HD11	1:pC:60:ARG:NH1	1.36	1.38
1:iR:99:LEU:HD11	1:kj:60:ARG:NH1	1.36	1.38
3:qe:67:ARG:N	4:qm:194:LEU:CD1	1.84	1.38
3:qi:66:GLN:N	4:qo:10:GLN:HG2	1.30	1.38
2:az:103:MET:HE2	5:qJ:32:PHE:CG	1.56	1.38
1:aC:60:ARG:NH1	1:hn:99:LEU:HD11	1.36	1.38
1:cX:60:ARG:NH1	1:dz:99:LEU:HD11	1.36	1.38
1:aC:99:LEU:HD21	1:kK:60:ARG:NH2	1.30	1.37
1:eD:99:LEU:HD21	1:ib:60:ARG:NH2	1.30	1.38
2:lG:282:ARG:NH2	2:mY:282:ARG:NH1	1.63	1.38
1:ab:99:LEU:CD1	1:ng:60:ARG:NE	1.80	1.37
1:fV:60:ARG:NH2	1:nu:99:LEU:HD21	1.30	1.37
2:kt:108:ARG:N	5:qD:178:PRO:HB3	1.34	1.37
1:kY:99:LEU:HD11	1:oy:60:ARG:NH1	1.36	1.37
2:oq:282:ARG:NH2	2:pW:282:ARG:NH1	1.63	1.37
1:dz:60:ARG:NE	1:gx:99:LEU:CD1	1.80	1.37
1:jH:99:LEU:HD21	1:oM:60:ARG:NH2	1.30	1.37
1:mC:102:GLU:OE2	1:oC:99:LEU:HD11	1.22	1.37
1:pA:102:GLU:OE2	1:pG:99:LEU:HD11	1.22	1.37
1:aA:102:GLU:OE2	1:kn:99:LEU:HD11	1.22	1.37
1:aC:99:LEU:HD11	1:kK:60:ARG:NH1	1.36	1.37
1:eb:60:ARG:NH1	1:nW:99:LEU:HD11	1.36	1.37
1:eH:99:LEU:HD11	1:gv:102:GLU:OE2	1.22	1.37
1:fH:99:LEU:HD11	1:gZ:60:ARG:NH1	1.36	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ip:99:LEU:CD1	1:pQ:60:ARG:NE	1.80	1.37
1:ip:99:LEU:HD11	1:pQ:60:ARG:NH1	1.36	1.37
1:fL:99:LEU:HD11	1:ma:102:GLU:OE2	1.22	1.37
3:qd:84:TYR:CE1	6:qs:20:GLU:OE2	1.77	1.37
3:qh:68:ALA:CB	4:qo:222:GLY:O	1.71	1.37
1:ch:99:LEU:HD11	1:jf:60:ARG:NH1	1.36	1.36
1:fH:99:LEU:HD21	1:gZ:60:ARG:NH2	1.30	1.36
1:hA:99:LEU:CD1	1:kw:60:ARG:NE	1.80	1.36
1:nI:99:LEU:HD11	1:pa:60:ARG:NH1	1.36	1.36
1:aQ:60:ARG:NH1	1:jf:99:LEU:HD11	1.36	1.36
1:bT:60:ARG:NH1	1:eR:99:LEU:HD11	1.36	1.36
1:ff:60:ARG:NH1	1:ib:99:LEU:HD11	1.36	1.36
1:fV:99:LEU:HD11	1:mc:60:ARG:NH1	1.36	1.36
1:hA:60:ARG:NH2	1:lO:99:LEU:HD21	1.30	1.36
1:ip:60:ARG:NH1	1:lm:99:LEU:HD11	1.36	1.36
1:jt:60:ARG:NH1	1:jV:99:LEU:HD11	1.36	1.36
2:nO:282:ARG:NH1	2:oc:282:ARG:NH2	1.63	1.36
1:be:99:LEU:HD11	1:iR:60:ARG:NH1	1.36	1.36
1:cv:60:ARG:NH1	1:pC:99:LEU:HD11	1.36	1.36
3:qi:67:ARG:N	4:qo:194:LEU:HD12	1.38	1.36
1:cJ:60:ARG:NH1	1:iD:99:LEU:HD11	1.36	1.36
1:fF:102:GLU:OE2	1:mg:99:LEU:HD11	1.22	1.36
1:fH:60:ARG:NE	1:mq:99:LEU:CD1	1.80	1.36
2:hx:96:LEU:HD22	5:qz:47:ARG:CD	1.52	1.36
2:bQ:107:GLY:CA	5:qp:176:ASN:ND2	1.85	1.36
1:ep:60:ARG:NH1	1:pa:99:LEU:HD11	1.36	1.36
1:lA:60:ARG:NH1	1:oy:99:LEU:HD11	1.36	1.36
3:qf:63:GLN:HE21	4:qk:222:GLY:N	1.24	1.36
3:qg:63:GLN:NE2	4:qj:221:ASP:CA	1.77	1.36
2:az:183:ILE:CG1	5:qH:178:PRO:HB2	1.55	1.35
1:cX:99:LEU:HD11	1:gx:60:ARG:NH1	1.36	1.35
1:bE:102:GLU:CG	1:hR:99:LEU:HD21	1.57	1.35
1:bK:99:LEU:HD21	1:hL:102:GLU:CG	1.57	1.35
1:gZ:99:LEU:HD11	1:mq:60:ARG:NH1	1.36	1.35
1:jt:99:LEU:HD11	1:mS:60:ARG:NH1	1.36	1.35
1:oo:99:LEU:HD21	1:qc:102:GLU:CG	1.57	1.35
3:qd:84:TYR:HE1	6:qs:20:GLU:CG	1.36	1.35
1:cJ:99:LEU:HD11	1:po:60:ARG:NH1	1.36	1.35
1:mC:102:GLU:CG	1:oC:99:LEU:HD21	1.57	1.35
3:qh:84:TYR:CE1	6:qI:20:GLU:OE2	1.79	1.35
1:it:99:LEU:HD21	1:jT:102:GLU:CG	1.57	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iD:60:ARG:NH1	1:po:99:LEU:HD11	1.36	1.35
1:jV:60:ARG:NH1	1:mS:99:LEU:HD11	1.36	1.35
1:nU:102:GLU:CG	1:oa:99:LEU:HD21	1.57	1.35
3:qf:67:ARG:N	4:ql:194:LEU:HD12	1.07	1.35
1:bw:99:LEU:HD21	1:dj:102:GLU:CG	1.57	1.35
2:bQ:97:GLY:HA2	5:qp:51:GLU:CG	1.54	1.35
1:dL:102:GLU:CG	1:pe:99:LEU:HD21	1.57	1.35
1:ie:102:GLU:OE2	1:nt:99:LEU:HD11	1.17	1.35
1:an:102:GLU:CG	1:oQ:99:LEU:HD21	1.57	1.34
1:hd:99:LEU:HD11	1:lM:102:GLU:OE2	1.22	1.34
1:ia:99:LEU:HD11	1:nx:102:GLU:OE2	1.17	1.34
1:jL:99:LEU:HD21	1:pO:102:GLU:CG	1.57	1.34
1:aa:99:LEU:CD2	1:fw:102:GLU:HG3	1.58	1.34
1:bJ:102:GLU:HG3	1:lN:99:LEU:CD2	1.58	1.34
1:cf:102:GLU:CG	1:iH:99:LEU:HD21	1.57	1.34
1:cg:99:LEU:CD2	1:lp:102:GLU:HG3	1.58	1.34
1:da:102:GLU:HG3	1:fe:99:LEU:CD2	1.58	1.34
1:ea:99:LEU:CD2	1:mf:102:GLU:HG3	1.58	1.34
1:fL:99:LEU:HD21	1:ma:102:GLU:CG	1.57	1.34
1:hr:99:LEU:HD11	1:ku:102:GLU:OE2	1.22	1.34
1:fj:99:LEU:HD21	1:gJ:102:GLU:CG	1.57	1.34
1:gY:99:LEU:HD11	1:oB:102:GLU:OE2	1.17	1.34
1:hd:99:LEU:HD21	1:lM:102:GLU:CG	1.57	1.34
1:hl:102:GLU:CG	1:kA:99:LEU:HD21	1.57	1.34
1:hD:102:GLU:HG3	1:kJ:99:LEU:CD2	1.58	1.34
1:mc:99:LEU:HD11	1:nu:60:ARG:NH1	1.36	1.34
1:ae:102:GLU:HG3	1:fs:99:LEU:CD2	1.58	1.34
1:aQ:99:LEU:HD11	1:ch:60:ARG:NH1	1.36	1.34
1:bF:99:LEU:CD2	1:lR:102:GLU:HG3	1.58	1.34
1:ck:102:GLU:HG3	1:ll:99:LEU:CD2	1.58	1.34
1:cH:102:GLU:CG	1:cN:99:LEU:HD21	1.57	1.34
1:gP:99:LEU:HD21	1:in:102:GLU:CG	1.57	1.34
1:hr:99:LEU:HD21	1:ku:102:GLU:CG	1.57	1.34
2:ko:32:LEU:CG	5:qF:177:SER:HB3	1.49	1.34
1:af:99:LEU:HD21	1:oi:102:GLU:CG	1.57	1.34
1:ao:99:LEU:CD2	1:gm:102:GLU:HG3	1.58	1.34
1:aG:99:LEU:HD21	1:kh:102:GLU:CG	1.57	1.34
1:bs:99:LEU:HD11	1:eR:60:ARG:NH1	1.36	1.34
1:bE:102:GLU:OE2	1:hR:99:LEU:HD11	1.22	1.34
1:bX:99:LEU:HD21	1:dx:102:GLU:CG	1.57	1.34
1:ct:102:GLU:CG	1:ps:99:LEU:HD21	1.57	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cW:99:LEU:CD2	1:fi:102:GLU:HG3	1.58	1.34
1:es:102:GLU:OE2	1:nV:99:LEU:HD11	1.17	1.34
1:fT:102:GLU:OE2	1:fZ:99:LEU:HD11	1.22	1.34
1:fU:99:LEU:CD2	1:mt:102:GLU:HG3	1.58	1.34
2:ko:32:LEU:HD21	5:qF:177:SER:CA	1.56	1.34
1:lm:60:ARG:NH1	1:pQ:99:LEU:HD11	1.36	1.34
1:mD:99:LEU:CD2	1:oP:102:GLU:HG3	1.58	1.34
5:qp:392:LEU:HD12	5:qr:400:TYR:CE1	1.63	1.34
5:qp:400:TYR:CE1	5:qL:392:LEU:HD12	1.63	1.34
1:bq:102:GLU:CG	1:dp:99:LEU:HD21	1.57	1.33
1:ct:102:GLU:OE2	1:ps:99:LEU:HD11	1.22	1.33
1:do:102:GLU:OE2	1:ki:99:LEU:HD11	1.17	1.33
1:eG:102:GLU:HG3	1:gK:99:LEU:CD2	1.58	1.33
1:jx:99:LEU:CD1	1:lk:102:GLU:OE2	1.77	1.33
1:jZ:99:LEU:CD1	1:ly:102:GLU:OE2	1.76	1.33
1:lc:99:LEU:HD21	1:mQ:102:GLU:CG	1.57	1.33
1:mH:102:GLU:HG3	1:oL:99:LEU:CD2	1.58	1.33
1:as:102:GLU:HG3	1:gi:99:LEU:CD2	1.58	1.33
1:aB:99:LEU:CD2	1:mV:102:GLU:HG3	1.58	1.33
1:aG:99:LEU:CD1	1:kh:102:GLU:OE2	1.77	1.33
1:dD:99:LEU:CD1	1:fd:102:GLU:OE2	1.77	1.33
1:ee:102:GLU:HG3	1:mb:99:LEU:CD2	1.58	1.33
1:ef:99:LEU:HD21	1:nG:102:GLU:CG	1.57	1.33
1:eH:99:LEU:CD1	1:gv:102:GLU:OE2	1.76	1.33
1:fT:102:GLU:OE2	1:fZ:99:LEU:CD1	1.77	1.33
1:hy:102:GLU:CG	1:hE:99:LEU:HD21	1.57	1.33
1:jr:102:GLU:CG	1:lq:99:LEU:HD21	1.57	1.33
1:mI:99:LEU:HD21	1:ow:102:GLU:CG	1.57	1.33
1:mI:99:LEU:CD1	1:ow:102:GLU:OE2	1.77	1.33
5:qJ:392:LEU:HD12	5:qL:400:TYR:CE1	1.63	1.33
1:cz:99:LEU:HD21	1:pm:102:GLU:CG	1.57	1.33
1:dz:60:ARG:NH1	1:gx:99:LEU:HD11	1.36	1.33
1:dR:99:LEU:CD1	1:oY:102:GLU:OE2	1.77	1.33
1:en:102:GLU:OE2	1:et:99:LEU:CD1	1.76	1.33
1:eo:99:LEU:CD2	1:nZ:102:GLU:HG3	1.58	1.33
1:fx:99:LEU:HD21	1:ns:102:GLU:CG	1.57	1.33
1:fG:99:LEU:HD11	1:kz:102:GLU:OE2	1.17	1.33
1:gh:102:GLU:CG	1:if:99:LEU:HD21	1.57	1.33
1:gn:99:LEU:HD21	1:hZ:102:GLU:CG	1.57	1.33
1:gX:102:GLU:OE2	1:lS:99:LEU:CD1	1.76	1.33
1:gY:99:LEU:CD2	1:oB:102:GLU:HG3	1.58	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:kW:102:GLU:CG	1:mW:99:LEU:HD21	1.57	1.33
1:mo:102:GLU:CG	1:mu:99:LEU:HD21	1.57	1.33
1:pA:102:GLU:OE2	1:pG:99:LEU:CD1	1.77	1.33
5:qz:392:LEU:HD12	5:qB:400:TYR:CE1	1.63	1.33
1:bv:102:GLU:HG3	1:dy:99:LEU:CD2	1.58	1.33
1:bX:99:LEU:CD1	1:dx:102:GLU:OE2	1.77	1.33
1:cV:102:GLU:CG	1:eV:99:LEU:HD21	1.57	1.33
1:dZ:102:GLU:OE2	1:nM:99:LEU:CD1	1.77	1.33
1:eH:99:LEU:HD21	1:gv:102:GLU:CG	1.57	1.33
1:hm:99:LEU:CD2	1:iU:102:GLU:HG3	1.58	1.33
1:hq:102:GLU:HG3	1:iQ:99:LEU:CD2	1.58	1.33
1:jd:102:GLU:CG	1:jj:99:LEU:HD21	1.57	1.33
1:oo:99:LEU:CD1	1:qc:102:GLU:OE2	1.77	1.33
1:pA:102:GLU:CG	1:pG:99:LEU:HD21	1.57	1.33
3:qg:61:ASP:CA	4:qk:33:SER:CB	2.05	1.33
5:qr:392:LEU:HD12	5:qt:400:TYR:CE1	1.63	1.33
1:aO:102:GLU:OE2	1:iV:99:LEU:CD1	1.77	1.33
1:aO:102:GLU:CG	1:iV:99:LEU:HD21	1.57	1.33
1:bE:102:GLU:OE2	1:hR:99:LEU:CD1	1.77	1.33
1:db:99:LEU:HD21	1:eP:102:GLU:CG	1.57	1.33
1:dD:99:LEU:HD21	1:fd:102:GLU:CG	1.57	1.33
1:dR:99:LEU:HD11	1:oY:102:GLU:OE2	1.22	1.33
1:dZ:102:GLU:CG	1:nM:99:LEU:HD21	1.57	1.33
1:fj:99:LEU:CD1	1:gJ:102:GLU:OE2	1.77	1.33
1:fr:102:GLU:OE2	1:ny:99:LEU:CD1	1.76	1.33
1:fY:102:GLU:HG3	1:mp:99:LEU:CD2	1.58	1.33
1:jw:102:GLU:HG3	1:lz:99:LEU:CD2	1.58	1.33
1:jF:102:GLU:CG	1:pU:99:LEU:HD21	1.57	1.33
1:jY:102:GLU:HG3	1:pP:99:LEU:CD2	1.58	1.33
1:lc:99:LEU:HD11	1:mQ:102:GLU:OE2	1.22	1.33
3:qi:84:TYR:HE1	6:qM:20:GLU:CG	1.42	1.33
1:an:102:GLU:OE2	1:oQ:99:LEU:CD1	1.77	1.32
1:bc:102:GLU:CG	1:bi:99:LEU:HD21	1.57	1.32
1:bq:102:GLU:OE2	1:dp:99:LEU:CD1	1.77	1.32
1:cf:102:GLU:OE2	1:iH:99:LEU:CD1	1.76	1.32
1:ct:102:GLU:OE2	1:ps:99:LEU:CD1	1.77	1.32
1:cz:99:LEU:CD1	1:pm:102:GLU:OE2	1.76	1.32
1:fF:102:GLU:CG	1:mg:99:LEU:HD21	1.57	1.32
1:gP:99:LEU:CD1	1:in:102:GLU:OE2	1.77	1.32
1:jx:99:LEU:HD21	1:lk:102:GLU:CG	1.57	1.32
3:qf:63:GLN:NE2	4:qk:222:GLY:H	1.26	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qx:392:LEU:HD12	5:qz:400:TYR:CE1	1.63	1.32
1:af:99:LEU:HD11	1:oi:102:GLU:OE2	1.22	1.32
1:at:99:LEU:HD11	1:bR:102:GLU:OE2	1.22	1.32
1:bc:102:GLU:OE2	1:bi:99:LEU:CD1	1.77	1.32
1:cl:99:LEU:HD21	1:iB:102:GLU:CG	1.57	1.32
1:cy:102:GLU:HG3	1:nH:99:LEU:CD2	1.58	1.32
1:dQ:102:GLU:HG3	1:jG:99:LEU:CD2	1.58	1.32
1:ee:102:GLU:OE2	1:mb:99:LEU:HD11	1.17	1.32
1:eQ:99:LEU:CD2	1:iG:102:GLU:HG3	1.58	1.32
1:gw:99:LEU:CD2	1:pd:102:GLU:HG3	1.58	1.32
1:gA:102:GLU:HG3	1:oZ:99:LEU:CD2	1.58	1.32
1:gX:102:GLU:CG	1:lS:99:LEU:HD21	1.57	1.32
1:hl:102:GLU:OE2	1:kA:99:LEU:CD1	1.77	1.32
2:hx:190:PRO:HD2	5:qx:47:ARG:CD	1.56	1.32
1:kl:102:GLU:OE2	1:kO:99:LEU:CD1	1.77	1.32
1:kX:99:LEU:CD2	1:nj:102:GLU:HG3	1.58	1.32
1:lE:99:LEU:HD21	1:ne:102:GLU:CG	1.57	1.32
1:mo:102:GLU:OE2	1:mu:99:LEU:HD11	1.22	1.32
3:qg:67:ARG:N	4:qk:194:LEU:CD1	1.90	1.32
1:aU:99:LEU:CD1	1:iP:102:GLU:OE2	1.77	1.32
1:bd:99:LEU:CD2	1:ji:102:GLU:HG3	1.58	1.32
1:cz:101:VAL:HG13	2:pg:198:GLU:OE2	1.15	1.32
1:dM:99:LEU:CD2	1:jK:102:GLU:HG3	1.58	1.32
1:en:102:GLU:CG	1:et:99:LEU:HD21	1.57	1.32
1:eB:102:GLU:CG	1:gB:99:LEU:HD21	1.57	1.32
1:fG:99:LEU:CD2	1:kz:102:GLU:HG3	1.58	1.32
1:hc:102:GLU:OE2	1:ox:99:LEU:HD11	1.17	1.32
1:hd:99:LEU:CD1	1:lM:102:GLU:OE2	1.76	1.32
2:hx:95:ASN:CB	5:qz:44:LYS:HA	1.51	1.32
1:it:99:LEU:CD1	1:jT:102:GLU:OE2	1.77	1.32
1:nk:99:LEU:HD21	1:oK:102:GLU:CG	1.57	1.32
3:qg:63:GLN:NE2	4:qj:222:GLY:N	1.78	1.32
5:qH:392:LEU:HD12	5:qJ:400:TYR:CE1	1.63	1.32
1:at:99:LEU:HD21	1:bR:102:GLU:CG	1.57	1.32
1:aA:102:GLU:CG	1:kn:99:LEU:HD21	1.57	1.32
1:aU:99:LEU:HD21	1:iP:102:GLU:CG	1.57	1.32
1:bh:102:GLU:HG3	1:je:99:LEU:CD2	1.58	1.32
1:bw:99:LEU:CD1	1:dj:102:GLU:OE2	1.77	1.32
1:bW:102:GLU:HG3	1:hM:99:LEU:CD2	1.58	1.32
1:dk:99:LEU:CD2	1:km:102:GLU:HG3	1.58	1.32
1:ef:99:LEU:CD1	1:nG:102:GLU:OE2	1.77	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eU:102:GLU:HG3	1:iC:99:LEU:CD2	1.58	1.32
1:fx:99:LEU:CD1	1:ns:102:GLU:OE2	1.77	1.32
1:fL:99:LEU:CD1	1:ma:102:GLU:OE2	1.77	1.32
1:fT:102:GLU:CG	1:fZ:99:LEU:HD21	1.57	1.32
1:gh:102:GLU:OE2	1:if:99:LEU:CD1	1.77	1.32
1:ie:102:GLU:HG3	1:nt:99:LEU:CD2	1.58	1.32
1:js:99:LEU:CD2	1:lD:102:GLU:HG3	1.58	1.32
1:jF:102:GLU:OE2	1:pU:99:LEU:CD1	1.77	1.32
1:jZ:99:LEU:HD21	1:ly:102:GLU:CG	1.57	1.32
1:at:99:LEU:CD1	1:bR:102:GLU:OE2	1.77	1.32
1:aQ:99:LEU:HD13	1:ch:60:ARG:NE	1.42	1.32
1:bW:102:GLU:OE2	1:hM:99:LEU:HD11	1.17	1.32
1:cu:99:LEU:CD2	1:nL:102:GLU:HG3	1.58	1.32
1:dL:102:GLU:OE2	1:pe:99:LEU:CD1	1.77	1.32
1:es:102:GLU:HG3	1:nV:99:LEU:CD2	1.58	1.32
2:fz:198:GLU:OE2	1:mg:101:VAL:HG13	1.15	1.32
1:ia:99:LEU:CD2	1:nx:102:GLU:HG3	1.58	1.32
1:jH:60:ARG:NE	1:ok:99:LEU:HD13	1.42	1.32
1:jU:99:LEU:CD2	1:pT:102:GLU:HG3	1.58	1.32
1:jZ:101:VAL:HG13	2:ls:198:GLU:OE2	1.15	1.32
1:lb:102:GLU:HG3	1:nf:99:LEU:CD2	1.58	1.32
1:lc:99:LEU:CD1	1:mQ:102:GLU:OE2	1.76	1.32
1:lE:99:LEU:CD1	1:ne:102:GLU:OE2	1.77	1.32
1:mC:102:GLU:OE2	1:oC:99:LEU:CD1	1.76	1.32
2:aI:198:GLU:OE2	1:iV:101:VAL:HG13	1.15	1.31
1:aT:102:GLU:HG3	1:pn:99:LEU:CD2	1.58	1.31
1:dN:99:LEU:HD13	1:pC:60:ARG:NE	1.42	1.31
1:fx:101:VAL:HG13	2:nm:198:GLU:OE2	1.15	1.31
1:fK:102:GLU:HG3	1:kv:99:LEU:CD2	1.58	1.31
1:hz:99:LEU:HD11	1:kN:102:GLU:OE2	1.17	1.31
1:hz:99:LEU:CD2	1:kN:102:GLU:HG3	1.58	1.31
1:jF:102:GLU:OE2	1:pU:99:LEU:HD11	1.22	1.31
1:kI:102:GLU:CG	1:kO:99:LEU:HD21	1.57	1.31
1:lE:101:VAL:HG13	2:mY:198:GLU:OE2	1.15	1.31
3:qg:68:ALA:CB	4:qj:222:GLY:O	1.77	1.31
6:qs:112:LEU:CD2	6:qu:58:LEU:CG	2.08	1.31
5:qt:392:LEU:HD12	5:qv:400:TYR:CE1	1.63	1.31
5:qD:392:LEU:HD12	5:qF:400:TYR:CE1	1.63	1.31
1:ao:99:LEU:HD11	1:gm:102:GLU:OE2	1.17	1.31
1:aA:102:GLU:OE2	1:kn:99:LEU:CD1	1.77	1.31
1:aF:102:GLU:HG3	1:mR:99:LEU:CD2	1.58	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:br:99:LEU:CD2	1:dC:102:GLU:HG3	1.58	1.31
1:bs:99:LEU:HD13	1:eR:60:ARG:NE	1.42	1.31
1:bK:99:LEU:CD1	1:hL:102:GLU:OE2	1.76	1.31
1:cH:102:GLU:OE2	1:cN:99:LEU:CD1	1.76	1.31
1:cV:102:GLU:OE2	1:eV:99:LEU:CD1	1.77	1.31
1:db:99:LEU:CD1	1:eP:102:GLU:OE2	1.77	1.31
1:eB:102:GLU:OE2	1:gB:99:LEU:CD1	1.77	1.31
1:jr:102:GLU:OE2	1:lq:99:LEU:CD1	1.76	1.31
1:nk:99:LEU:CD1	1:oK:102:GLU:OE2	1.77	1.31
3:qg:63:GLN:NE2	4:qj:222:GLY:H	1.28	1.31
6:qy:112:LEU:CD2	6:qA:58:LEU:CG	2.09	1.31
5:qB:392:LEU:HD12	5:qD:400:TYR:CE1	1.63	1.31
5:qF:392:LEU:HD12	5:qH:400:TYR:CE1	1.63	1.31
2:ah:198:GLU:OE2	1:oQ:101:VAL:HG13	1.15	1.31
1:cl:99:LEU:CD1	1:iB:102:GLU:OE2	1.76	1.31
1:cI:99:LEU:CD2	1:pF:102:GLU:HG3	1.58	1.31
1:dM:99:LEU:HD11	1:jK:102:GLU:OE2	1.17	1.31
1:fh:102:GLU:HG3	2:gC:62:GLN:OE1	1.13	1.31
1:fL:101:VAL:HG13	2:lU:198:GLU:OE2	1.15	1.31
1:gn:99:LEU:CD1	1:hZ:102:GLU:OE2	1.77	1.31
1:hr:99:LEU:CD1	1:ku:102:GLU:OE2	1.77	1.31
2:hx:96:LEU:HD22	5:qz:47:ARG:NE	1.41	1.31
1:hy:102:GLU:OE2	1:hE:99:LEU:CD1	1.77	1.31
3:qf:63:GLN:NE2	4:qk:222:GLY:N	1.76	1.31
6:qw:112:LEU:CD2	6:qy:58:LEU:CG	2.09	1.31
1:af:101:VAL:HG13	2:oc:198:GLU:OE2	1.15	1.31
2:bQ:97:GLY:CA	5:qp:51:GLU:OE2	1.77	1.31
1:cX:99:LEU:HD13	1:gx:60:ARG:NE	1.42	1.31
1:do:102:GLU:HG3	1:ki:99:LEU:CD2	1.58	1.31
1:dR:99:LEU:HD21	1:oY:102:GLU:CG	1.57	1.31
1:fr:102:GLU:CG	1:ny:99:LEU:HD21	1.57	1.31
1:hc:102:GLU:HG3	1:ox:99:LEU:CD2	1.58	1.31
1:jL:99:LEU:HD11	1:pO:102:GLU:OE2	1.22	1.31
2:kB:62:GLN:OE1	1:kM:102:GLU:HG3	1.13	1.31
1:mo:102:GLU:OE2	1:mu:99:LEU:CD1	1.77	1.31
1:mH:102:GLU:OE2	1:oL:99:LEU:HD11	1.17	1.31
1:nU:102:GLU:OE2	1:oa:99:LEU:CD1	1.76	1.31
1:io:99:LEU:CD2	1:on:102:GLU:HG3	1.58	1.31
1:jv:102:GLU:HG3	2:ld:62:GLN:OE1	1.13	1.31
1:jL:99:LEU:CD1	1:pO:102:GLU:OE2	1.77	1.31
1:kW:102:GLU:OE2	1:mW:99:LEU:CD1	1.77	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lC:102:GLU:HG3	2:mX:62:GLN:OE1	1.13	1.31
3:qg:68:ALA:HB1	4:qj:222:GLY:O	1.14	1.31
3:qi:84:TYR:CE1	6:qM:20:GLU:OE2	1.83	1.31
1:aP:99:LEU:CD2	1:pr:102:GLU:HG3	1.58	1.30
1:bv:102:GLU:OE2	1:dy:99:LEU:HD11	1.17	1.30
1:cv:60:ARG:NE	1:pC:99:LEU:HD13	1.42	1.30
1:cV:102:GLU:OE2	1:eV:99:LEU:HD11	1.22	1.30
1:eC:99:LEU:CD2	1:gO:102:GLU:HG3	1.58	1.30
1:gj:60:ARG:NE	1:gL:99:LEU:HD13	1.42	1.30
2:jk:62:GLN:OE1	1:lo:102:GLU:HG3	1.13	1.30
2:mi:198:GLU:OE2	1:mu:101:VAL:HG13	1.15	1.30
6:qq:112:LEU:CD2	6:qs:58:LEU:CG	2.08	1.30
5:qx:241:PRO:HD3	5:qz:268:GLU:OE2	1.13	1.30
1:af:99:LEU:CD1	1:oi:102:GLU:OE2	1.76	1.30
1:aO:102:GLU:OE2	1:iV:99:LEU:HD11	1.22	1.30
1:bX:99:LEU:HD11	1:dx:102:GLU:OE2	1.22	1.30
1:cj:102:GLU:HG3	2:iu:62:GLN:OE1	1.13	1.30
1:cu:99:LEU:HD11	1:nL:102:GLU:OE2	1.17	1.30
1:gn:101:VAL:HG13	2:hT:198:GLU:OE2	1.15	1.30
1:gw:99:LEU:HD11	1:pd:102:GLU:OE2	1.17	1.30
2:he:62:GLN:OE1	1:ky:102:GLU:HG3	1.13	1.30
2:hF:92:GLU:OE2	5:qx:178:PRO:CG	1.79	1.30
1:is:102:GLU:HG3	1:oj:99:LEU:CD2	1.58	1.30
1:jd:102:GLU:OE2	1:jj:99:LEU:CD1	1.77	1.30
1:bK:99:LEU:HD11	1:hL:102:GLU:OE2	1.22	1.30
1:bS:99:LEU:CD2	1:hQ:102:GLU:HG3	1.58	1.30
1:cM:102:GLU:HG3	1:pB:99:LEU:CD2	1.58	1.30
2:cO:62:GLN:OE1	1:eT:102:GLU:HG3	1.13	1.30
1:eB:102:GLU:OE2	1:gB:99:LEU:HD11	1.22	1.30
1:lm:60:ARG:NE	1:pQ:99:LEU:HD13	1.42	1.30
2:mh:62:GLN:OE1	1:ms:102:GLU:HG3	1.13	1.30
1:ni:102:GLU:HG3	2:oD:62:GLN:OE1	1.13	1.30
5:qt:241:PRO:HD3	5:qv:268:GLU:OE2	1.13	1.30
2:au:62:GLN:OE1	1:kl:102:GLU:HG3	1.13	1.30
1:fx:99:LEU:HD11	1:ns:102:GLU:OE2	1.22	1.30
2:hF:198:GLU:OE2	1:kA:101:VAL:HG13	1.14	1.30
1:is:102:GLU:OE2	1:oj:99:LEU:HD11	1.17	1.30
1:nk:99:LEU:HD11	1:oK:102:GLU:OE2	1.22	1.30
5:qv:392:LEU:HD12	5:qx:400:TYR:CE1	1.63	1.30
6:qC:112:LEU:CD2	6:qE:58:LEU:CG	2.08	1.30
1:eQ:99:LEU:HD11	1:iG:102:GLU:OE2	1.17	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fH:60:ARG:NE	1:mq:99:LEU:HD13	1.42	1.30
1:iD:60:ARG:NE	1:po:99:LEU:HD13	1.42	1.30
1:bc:102:GLU:OE2	1:bi:99:LEU:HD11	1.22	1.29
1:db:99:LEU:HD11	1:eP:102:GLU:OE2	1.22	1.29
1:dP:102:GLU:HG3	2:oR:62:GLN:OE1	1.13	1.29
2:gQ:62:GLN:OE1	1:lQ:102:GLU:HG3	1.13	1.29
2:hx:95:ASN:CB	5:qz:47:ARG:NH2	1.94	1.29
1:jU:99:LEU:HD11	1:pT:102:GLU:OE2	1.17	1.29
6:qu:112:LEU:CD2	6:qw:58:LEU:CG	2.09	1.29
6:qK:112:LEU:CD2	6:qM:58:LEU:CG	2.08	1.29
1:be:99:LEU:HD13	1:iR:60:ARG:NE	1.42	1.29
1:bh:102:GLU:OE2	1:je:99:LEU:HD11	1.17	1.29
1:cZ:102:GLU:HG3	2:eI:62:GLN:OE1	1.13	1.29
1:dD:101:VAL:HG13	2:eX:198:GLU:OE2	1.15	1.29
1:fF:102:GLU:OE2	1:mg:99:LEU:CD1	1.77	1.29
2:fM:62:GLN:OE1	1:fX:102:GLU:HG3	1.13	1.29
2:gR:198:GLU:OE2	1:lS:101:VAL:HG13	1.15	1.29
1:hy:102:GLU:OE2	1:hE:99:LEU:HD11	1.22	1.29
1:jr:102:GLU:OE2	1:lq:99:LEU:HD11	1.22	1.29
2:aV:62:GLN:OE1	1:bg:102:GLU:HG3	1.13	1.29
1:bd:99:LEU:HD11	1:ji:102:GLU:OE2	1.17	1.29
2:bk:198:GLU:OE2	1:dp:101:VAL:HG13	1.15	1.29
1:bq:102:GLU:OE2	1:dp:99:LEU:HD11	1.22	1.29
1:bs:60:ARG:CD	1:bT:99:LEU:HD13	1.63	1.29
1:ch:99:LEU:HD13	1:jf:60:ARG:CD	1.63	1.29
2:cn:198:GLU:OE2	1:ps:101:VAL:HG13	1.15	1.29
1:gh:102:GLU:OE2	1:if:99:LEU:HD11	1.22	1.29
1:gP:101:VAL:HG13	2:ih:198:GLU:OE2	1.15	1.29
6:qG:112:LEU:CD2	6:qI:58:LEU:CG	2.09	1.29
1:aC:60:ARG:CD	1:hn:99:LEU:HD13	1.63	1.29
1:bT:60:ARG:CD	1:eR:99:LEU:HD13	1.63	1.29
2:bY:62:GLN:OE1	1:iF:102:GLU:HG3	1.13	1.29
1:cy:102:GLU:OE2	1:nH:99:LEU:HD11	1.17	1.29
1:cH:102:GLU:OE2	1:cN:99:LEU:HD11	1.22	1.29
1:dl:60:ARG:NE	1:hN:99:LEU:HD13	1.42	1.29
2:eg:62:GLN:OE1	1:er:102:GLU:HG3	1.13	1.29
2:ev:198:GLU:OE2	1:gB:101:VAL:HG13	1.15	1.29
1:eD:99:LEU:HD13	1:ib:60:ARG:CD	1.63	1.29
1:fr:102:GLU:OE2	1:ny:99:LEU:HD11	1.22	1.29
1:gP:99:LEU:HD11	1:in:102:GLU:OE2	1.22	1.29
1:ip:60:ARG:CD	1:lm:99:LEU:HD13	1.63	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:qq:58:LEU:CG	6:qM:112:LEU:CD2	2.09	1.29
6:qE:112:LEU:CD2	6:qG:58:LEU:CG	2.08	1.29
1:br:99:LEU:HD11	1:dC:102:GLU:OE2	1.17	1.29
1:bJ:102:GLU:OE2	1:lN:99:LEU:HD11	1.17	1.29
1:cJ:60:ARG:CD	1:iD:99:LEU:HD13	1.63	1.29
1:ff:60:ARG:CD	1:ib:99:LEU:HD13	1.63	1.29
2:hK:103:MET:CE	5:qt:54:GLN:O	1.77	1.29
1:kW:102:GLU:OE2	1:mW:99:LEU:HD11	1.22	1.29
1:kY:99:LEU:HD13	1:oy:60:ARG:CD	1.63	1.29
1:nU:102:GLU:OE2	1:oa:99:LEU:HD11	1.22	1.29
5:qB:241:PRO:HD3	5:qD:268:GLU:OE2	1.13	1.29
1:ed:102:GLU:HG3	2:nz:62:GLN:OE1	1.13	1.28
1:fV:60:ARG:CD	1:nu:99:LEU:HD13	1.63	1.28
1:gK:99:LEU:HA	1:gK:102:GLU:OE1	1.34	1.28
1:ip:99:LEU:HD13	1:pQ:60:ARG:CD	1.63	1.28
1:iR:99:LEU:HD13	1:kj:60:ARG:CD	1.63	1.28
1:mc:99:LEU:HD13	1:nu:60:ARG:CD	1.63	1.28
1:mI:101:VAL:HG13	2:oq:198:GLU:OE2	1.15	1.28
1:nk:101:VAL:HG13	2:oE:198:GLU:OE2	1.15	1.28
1:nI:99:LEU:HD13	1:pa:60:ARG:NE	1.42	1.28
1:nI:99:LEU:HD13	1:pa:60:ARG:CD	1.63	1.28
6:qA:112:LEU:CD2	6:qC:58:LEU:CG	2.09	1.28
1:aa:102:GLU:OE1	1:nh:99:LEU:HA	1.33	1.28
1:bw:101:VAL:HG13	2:dd:198:GLU:OE2	1.15	1.28
1:dz:60:ARG:CD	1:gx:99:LEU:HD13	1.63	1.28
2:fl:198:GLU:OE2	1:ny:101:VAL:HG13	1.15	1.28
1:fY:102:GLU:OE2	1:mp:99:LEU:HD11	1.17	1.28
1:kw:99:LEU:HD13	1:lO:60:ARG:CD	1.63	1.28
1:aQ:60:ARG:CD	1:jf:99:LEU:HD13	1.63	1.28
1:be:60:ARG:CD	1:kj:99:LEU:HD13	1.63	1.28
1:cJ:60:ARG:NE	1:iD:99:LEU:HD13	1.42	1.28
2:cP:198:GLU:OE2	1:eV:101:VAL:HG13	1.15	1.28
1:da:102:GLU:OE2	1:fe:99:LEU:HD11	1.17	1.28
1:ef:101:VAL:HG13	2:nA:198:GLU:OE2	1.15	1.28
1:ep:99:LEU:HD13	1:nI:60:ARG:CD	1.63	1.28
2:hx:96:LEU:CD2	5:qz:47:ARG:HD2	1.57	1.28
1:hA:99:LEU:HD13	1:kw:60:ARG:CD	1.63	1.28
1:ip:60:ARG:NE	1:lm:99:LEU:HD13	1.42	1.28
1:jx:99:LEU:HD11	1:lk:102:GLU:OE2	1.22	1.28
1:kX:99:LEU:HD11	1:nj:102:GLU:OE2	1.17	1.28
1:lb:102:GLU:OE2	1:nf:99:LEU:HD11	1.17	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qd:84:TYR:HE1	6:qs:20:GLU:CD	1.30	1.28
6:qI:112:LEU:CD2	6:qK:58:LEU:CG	2.08	1.28
1:ab:60:ARG:CD	1:mE:99:LEU:HD13	1.63	1.28
1:bT:60:ARG:NE	1:eR:99:LEU:HD13	1.42	1.28
1:ck:102:GLU:OE2	1:ll:99:LEU:HD11	1.17	1.28
1:ec:99:LEU:HA	1:nV:102:GLU:OE1	1.33	1.28
1:gZ:99:LEU:HD13	1:mq:60:ARG:CD	1.63	1.28
1:hq:102:GLU:OE2	1:iQ:99:LEU:HD11	1.17	1.28
1:hD:102:GLU:OE2	1:kJ:99:LEU:HD11	1.17	1.28
2:iW:62:GLN:OE1	1:jh:102:GLU:HG3	1.13	1.28
1:kv:102:GLU:OE1	1:lP:99:LEU:HA	1.33	1.28
1:lA:60:ARG:CD	1:oy:99:LEU:HD13	1.63	1.28
5:qp:241:PRO:HD3	5:qr:268:GLU:OE2	1.13	1.28
1:aC:99:LEU:HD13	1:kK:60:ARG:CD	1.63	1.28
1:cI:99:LEU:HD11	1:pF:102:GLU:OE2	1.17	1.28
1:cK:99:LEU:HA	1:iC:102:GLU:OE1	1.34	1.28
1:eb:60:ARG:CD	1:nW:99:LEU:HD13	1.63	1.28
1:fV:99:LEU:HD13	1:mc:60:ARG:NE	1.42	1.28
1:hp:102:GLU:HG3	2:ko:62:GLN:OE1	1.13	1.28
2:kQ:198:GLU:OE2	1:mW:101:VAL:HG13	1.15	1.28
2:pt:62:GLN:OE1	1:pE:102:GLU:HG3	1.13	1.28
1:an:102:GLU:OE2	1:oQ:99:LEU:HD11	1.22	1.27
1:dk:99:LEU:HD11	1:km:102:GLU:OE2	1.17	1.27
1:eb:99:LEU:HD13	1:ft:60:ARG:CD	1.63	1.27
1:en:102:GLU:OE2	1:et:99:LEU:HD11	1.22	1.27
1:eF:102:GLU:HG3	2:go:62:GLN:OE1	1.13	1.27
1:eH:101:VAL:HG13	2:gp:198:GLU:OE2	1.14	1.27
1:hl:102:GLU:OE2	1:kA:99:LEU:HD11	1.22	1.27
1:jw:102:GLU:OE2	1:lz:99:LEU:HD11	1.17	1.27
1:mE:60:ARG:CD	1:ng:99:LEU:HD13	1.63	1.27
5:qz:252:LEU:HD22	6:qC:126:GLN:CB	1.64	1.27
5:qB:252:LEU:HD22	6:qE:126:GLN:CB	1.64	1.27
1:ap:99:LEU:HD13	1:hN:60:ARG:CD	1.63	1.27
1:aG:99:LEU:HD11	1:kh:102:GLU:OE2	1.22	1.27
1:aS:102:GLU:HG3	2:iI:62:GLN:OE1	1.13	1.27
1:cg:102:GLU:OE1	1:jg:99:LEU:HA	1.34	1.27
1:cv:60:ARG:CD	1:pC:99:LEU:HD13	1.63	1.27
2:dS:62:GLN:OE1	1:nK:102:GLU:HG3	1.13	1.27
1:fH:99:LEU:HD13	1:gZ:60:ARG:CD	1.63	1.27
1:fK:102:GLU:OE2	1:kv:99:LEU:HD11	1.17	1.27
1:gA:102:GLU:OE2	1:oZ:99:LEU:HD11	1.17	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hA:60:ARG:CD	1:lO:99:LEU:HD13	1.63	1.27
1:ir:102:GLU:HG3	2:jM:62:GLN:OE1	1.13	1.27
1:jt:99:LEU:HD13	1:mS:60:ARG:CD	1.63	1.27
1:jI:99:LEU:HA	1:oj:102:GLU:OE1	1.33	1.27
1:lc:101:VAL:HG13	2:mK:198:GLU:OE2	1.15	1.27
1:ok:60:ARG:CD	1:oM:99:LEU:HD13	1.63	1.27
5:qD:252:LEU:HD22	6:qG:126:GLN:CB	1.64	1.27
2:aH:62:GLN:OE1	1:iT:102:GLU:HG3	1.13	1.27
1:aQ:99:LEU:HD13	1:ch:60:ARG:CD	1.63	1.27
1:cv:99:LEU:HD13	1:dN:60:ARG:CD	1.63	1.27
1:fj:99:LEU:HD11	1:gJ:102:GLU:OE2	1.22	1.27
1:ft:99:LEU:HD13	1:nW:60:ARG:CD	1.63	1.27
1:fV:99:LEU:HD13	1:mc:60:ARG:CD	1.63	1.27
1:gN:102:GLU:HG3	2:ig:62:GLN:OE1	1.13	1.27
1:jX:102:GLU:HG3	2:lr:62:GLN:OE1	1.13	1.27
1:lB:99:LEU:HA	1:ox:102:GLU:OE1	1.33	1.27
1:mF:99:LEU:HA	1:nf:102:GLU:OE1	1.33	1.27
3:qi:84:TYR:CE1	6:qM:20:GLU:CD	2.10	1.27
1:aF:102:GLU:OE2	1:mR:99:LEU:HD11	1.17	1.27
1:cX:99:LEU:HD13	1:gx:60:ARG:CD	1.63	1.27
2:dF:198:GLU:OE2	1:pe:101:VAL:HG13	1.15	1.27
1:dN:99:LEU:HD13	1:pC:60:ARG:CD	1.63	1.27
1:dR:101:VAL:HG13	2:oS:198:GLU:OE2	1.15	1.27
1:ep:60:ARG:CD	1:pa:99:LEU:HD13	1.63	1.27
1:fv:102:GLU:HG3	2:nl:62:GLN:OE1	1.13	1.27
1:hz:102:GLU:OE1	1:kx:99:LEU:HA	1.34	1.27
1:it:99:LEU:HD11	1:jT:102:GLU:OE2	1.22	1.27
1:oo:99:LEU:HD11	1:qc:102:GLU:OE2	1.22	1.27
5:qp:405:ILE:CG2	5:qL:394:ILE:CD1	2.13	1.27
5:qx:252:LEU:HD22	6:qA:126:GLN:CB	1.64	1.27
1:ap:99:LEU:HD13	1:hN:60:ARG:NE	1.42	1.27
2:bk:197:LYS:CE	1:dn:100:LYS:N	1.98	1.27
1:bs:99:LEU:HD13	1:eR:60:ARG:CD	1.63	1.27
1:bG:60:ARG:CD	1:gj:99:LEU:HD13	1.63	1.27
1:dm:99:LEU:HA	1:hM:102:GLU:OE1	1.33	1.27
1:eF:100:LYS:N	2:gp:197:LYS:CE	1.98	1.27
1:fg:99:LEU:HA	1:ia:102:GLU:OE1	1.33	1.27
1:fH:60:ARG:CD	1:mQ:99:LEU:HD13	1.63	1.27
1:jV:60:ARG:CD	1:mS:99:LEU:HD13	1.63	1.27
1:jY:102:GLU:OE2	1:pP:99:LEU:HD11	1.17	1.27
1:jZ:99:LEU:HD11	1:ly:102:GLU:OE2	1.22	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lm:60:ARG:CD	1:pQ:99:LEU:HD13	1.63	1.27
2:mw:197:LYS:CE	1:oa:100:LYS:N	1.98	1.27
1:mI:99:LEU:HD11	1:ow:102:GLU:OE2	1.22	1.27
3:qe:68:ALA:CB	4:ql:222:GLY:O	1.81	1.27
6:qy:112:LEU:CG	6:qA:58:LEU:HD13	1.65	1.27
5:qF:252:LEU:HD22	6:qI:126:GLN:CB	1.64	1.27
2:bx:62:GLN:OE1	1:hP:102:GLU:HG3	1.13	1.26
2:bL:107:GLY:O	5:qr:178:PRO:HG2	1.13	1.26
1:bV:102:GLU:HG3	2:dq:62:GLN:OE1	1.13	1.26
1:cJ:99:LEU:HD13	1:po:60:ARG:CD	1.63	1.26
2:dT:197:LYS:CE	1:nK:100:LYS:N	1.98	1.26
2:eh:198:GLU:OE2	1:et:101:VAL:HG13	1.15	1.26
1:eo:99:LEU:HD11	1:nZ:102:GLU:OE2	1.17	1.26
1:eG:102:GLU:OE2	1:gK:99:LEU:HD11	1.17	1.26
2:fl:197:LYS:CE	1:nw:100:LYS:N	1.98	1.26
2:fz:197:LYS:CE	1:me:100:LYS:N	1.98	1.26
1:hm:99:LEU:HD11	1:iU:102:GLU:OE2	1.17	1.26
2:jl:198:GLU:OE2	1:lq:101:VAL:HG13	1.15	1.26
1:jH:60:ARG:CD	1:ok:99:LEU:HD13	1.63	1.26
1:mG:100:LYS:N	2:oq:197:LYS:CE	1.98	1.26
1:om:102:GLU:HG3	2:pV:62:GLN:OE1	1.13	1.26
3:qh:61:ASP:CA	4:qj:33:SER:CB	2.13	1.26
6:qq:58:LEU:HD13	6:qM:112:LEU:CG	1.65	1.26
5:qr:252:LEU:HD22	6:qu:126:GLN:CB	1.65	1.26
5:qt:252:LEU:HD22	6:qw:126:GLN:CB	1.64	1.26
5:qv:252:LEU:HD22	6:qy:126:GLN:CB	1.65	1.26
6:qI:112:LEU:CG	6:qK:58:LEU:HD13	1.65	1.26
5:qJ:394:ILE:CD1	5:qL:405:ILE:CG2	2.13	1.26
1:aB:99:LEU:HD11	1:mV:102:GLU:OE2	1.17	1.26
1:aB:102:GLU:OE1	1:kL:99:LEU:HA	1.34	1.26
2:aI:197:LYS:CE	1:iT:100:LYS:N	1.98	1.26
1:aU:101:VAL:HG13	2:iJ:198:GLU:OE2	1.15	1.26
1:bF:99:LEU:HD11	1:lR:102:GLU:OE2	1.17	1.26
1:cx:102:GLU:HG3	2:pf:62:GLN:OE1	1.13	1.26
1:cW:99:LEU:HD11	1:f:102:GLU:OE2	1.17	1.26
2:dE:62:GLN:OE1	1:pc:102:GLU:HG3	1.13	1.26
1:dP:100:LYS:N	2:oS:197:LYS:CE	1.98	1.26
1:eU:102:GLU:OE2	1:iC:99:LEU:HD11	1.17	1.26
2:fy:62:GLN:OE1	1:me:102:GLU:HG3	1.13	1.26
1:ir:100:LYS:N	2:jN:197:LYS:CE	1.98	1.26
1:jt:60:ARG:CD	1:jV:99:LEU:HD13	1.63	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jH:99:LEU:HD13	1:oM:60:ARG:CD	1.63	1.26
1:ok:60:ARG:NE	1:oM:99:LEU:HD13	1.42	1.26
3:qd:65:GLY:N	4:qn:10:GLN:NE2	1.81	1.26
3:qi:61:ASP:CA	4:qo:33:SER:CB	2.13	1.26
5:qD:241:PRO:HD3	5:qF:268:GLU:OE2	1.13	1.26
5:qD:394:ILE:CD1	5:qF:405:ILE:CG2	2.13	1.26
1:ab:99:LEU:HD13	1:ng:60:ARG:CD	1.63	1.26
1:ae:102:GLU:OE2	1:fs:99:LEU:HD11	1.17	1.26
1:ar:102:GLU:HG3	2:bL:62:GLN:OE1	1.13	1.26
1:as:102:GLU:OE2	1:gi:99:LEU:HD11	1.17	1.26
1:be:99:LEU:HD13	1:iR:60:ARG:CD	1.63	1.26
2:by:198:GLU:OE2	1:hR:101:VAL:HG13	1.15	1.26
1:bG:99:LEU:HD13	1:gL:60:ARG:CD	1.63	1.26
1:cX:60:ARG:CD	1:dz:99:LEU:HD13	1.63	1.26
1:ef:99:LEU:HD11	1:nG:102:GLU:OE2	1.22	1.26
1:eD:60:ARG:CD	1:ff:99:LEU:HD13	1.63	1.26
1:fJ:100:LYS:N	2:lU:197:LYS:CE	1.98	1.26
1:gj:60:ARG:CD	1:gL:99:LEU:HD13	1.63	1.26
1:iD:60:ARG:CD	1:po:99:LEU:HD13	1.63	1.26
2:jy:62:GLN:OE1	1:pS:102:GLU:HG3	1.13	1.26
1:kY:60:ARG:CD	1:lA:99:LEU:HD13	1.63	1.26
2:mi:197:LYS:CE	1:ms:100:LYS:N	1.98	1.26
3:qd:68:ALA:HB1	4:qm:222:GLY:O	1.09	1.26
5:qp:252:LEU:HD22	6:qs:126:GLN:CB	1.65	1.26
5:qv:241:PRO:HD3	5:qx:268:GLU:OE2	1.13	1.26
5:qz:241:PRO:HD3	5:qB:268:GLU:OE2	1.13	1.26
5:qF:394:ILE:CD1	5:qH:405:ILE:CG2	2.13	1.26
2:ag:62:GLN:OE1	1:oO:102:GLU:HG3	1.13	1.26
1:bu:100:LYS:N	2:dd:197:LYS:CE	1.98	1.26
1:cj:100:LYS:N	2:iv:197:LYS:CE	1.98	1.26
2:cn:197:LYS:CE	1:pq:100:LYS:N	1.98	1.26
1:ex:100:LYS:N	2:pg:197:LYS:CE	1.98	1.26
2:cA:62:GLN:OE1	1:cL:102:GLU:HG3	1.13	1.26
2:cP:197:LYS:CE	1:eT:100:LYS:N	1.98	1.26
1:dl:60:ARG:CD	1:hN:99:LEU:HD13	1.63	1.26
2:dF:197:LYS:CE	1:pc:100:LYS:N	1.98	1.26
2:eu:62:GLN:OE1	1:gZ:102:GLU:HG3	1.13	1.26
1:fj:101:VAL:HG13	2:gD:198:GLU:OE2	1.15	1.26
2:gb:197:LYS:CE	1:id:100:LYS:N	1.98	1.26
2:hF:32:LEU:CD1	5:qv:178:PRO:CB	2.13	1.26
1:io:99:LEU:HD11	1:on:102:GLU:OE2	1.17	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jl:197:LYS:CE	1:lo:100:LYS:N	1.98	1.26
1:jL:101:VAL:HG13	2:pI:198:GLU:OE2	1.15	1.26
1:jX:100:LYS:N	2:ls:197:LYS:CE	1.98	1.26
2:ko:31:TYR:HE2	5:qF:178:PRO:CD	1.40	1.26
2:ko:32:LEU:HD21	5:qF:177:SER:CB	1.63	1.26
2:kC:198:GLU:OE2	1:kO:101:VAL:HG13	1.15	1.26
1:lE:99:LEU:HD11	1:ne:102:GLU:OE2	1.22	1.26
2:nO:198:GLU:OE2	1:oa:101:VAL:HG13	1.15	1.26
2:pu:198:GLU:OE2	1:pG:101:VAL:HG13	1.15	1.26
6:qu:112:LEU:CG	6:qw:58:LEU:HD13	1.65	1.26
6:qC:112:LEU:CG	6:qE:58:LEU:HD13	1.66	1.26
5:qH:252:LEU:HD22	6:qK:126:GLN:CB	1.65	1.26
1:ad:100:LYS:N	2:oc:197:LYS:CE	1.98	1.26
1:aS:100:LYS:N	2:iJ:197:LYS:CE	1.98	1.26
1:aT:102:GLU:OE2	1:pn:99:LEU:HD11	1.17	1.26
1:bS:99:LEU:HD11	1:hQ:102:GLU:OE2	1.17	1.26
2:bZ:198:GLU:OE2	1:iH:101:VAL:HG13	1.15	1.26
1:cl:101:VAL:HG13	2:iv:198:GLU:OE2	1.15	1.26
2:cB:198:GLU:OE2	1:cN:101:VAL:HG13	1.15	1.26
1:fH:99:LEU:HD13	1:gZ:60:ARG:NE	1.42	1.26
1:gN:100:LYS:N	2:ih:197:LYS:CE	1.98	1.26
1:gX:102:GLU:OE2	1:lS:99:LEU:HD11	1.22	1.26
1:kY:99:LEU:HD13	1:oy:60:ARG:NE	1.42	1.26
1:mD:99:LEU:HD11	1:oP:102:GLU:OE2	1.17	1.26
3:qd:67:ARG:N	4:qn:194:LEU:CD1	1.97	1.26
3:qf:68:ALA:HB1	4:qk:222:GLY:O	1.13	1.26
3:qi:65:GLY:N	4:qo:10:GLN:NE2	1.84	1.26
5:qp:394:ILE:CD1	5:qr:405:ILE:CG2	2.13	1.26
1:aE:100:LYS:N	2:kb:197:LYS:CE	1.98	1.25
1:aG:101:VAL:HG13	2:kb:198:GLU:OE2	1.15	1.25
2:cm:62:GLN:OE1	1:pq:102:GLU:HG3	1.13	1.25
1:dB:100:LYS:N	2:eX:197:LYS:CE	1.98	1.25
1:dB:102:GLU:HG3	2:eW:62:GLN:OE1	1.13	1.25
2:eh:197:LYS:CE	1:er:100:LYS:N	1.98	1.25
1:eE:99:LEU:HA	1:fe:102:GLU:OE1	1.33	1.25
1:fJ:102:GLU:HG3	2:lT:62:GLN:OE1	1.13	1.25
2:fN:197:LYS:CE	1:fX:100:LYS:N	1.98	1.25
1:gn:99:LEU:HD11	1:hZ:102:GLU:OE2	1.22	1.25
6:qq:126:GLN:CB	5:qL:252:LEU:HD22	1.65	1.25
6:qs:112:LEU:CG	6:qu:58:LEU:HD13	1.65	1.25
6:qE:112:LEU:CG	6:qG:58:LEU:HD13	1.65	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aa:99:LEU:HD11	1:fw:102:GLU:OE2	1.17	1.25
2:aW:197:LYS:CE	1:bg:100:LYS:N	1.98	1.25
2:bQ:97:GLY:HA2	5:qp:51:GLU:OE2	1.16	1.25
2:bQ:107:GLY:O	5:qp:176:ASN:HB3	1.36	1.25
1:ea:102:GLU:OE1	1:fu:99:LEU:HA	1.33	1.25
1:fU:99:LEU:HD11	1:mt:102:GLU:OE2	1.17	1.25
1:hn:60:ARG:CD	1:kK:99:LEU:HD13	1.63	1.25
2:hs:170:TRP:N	5:qz:178:PRO:CG	2.00	1.25
1:jJ:100:LYS:N	2:pI:197:LYS:CE	1.98	1.25
2:kP:62:GLN:OE1	1:mU:102:GLU:HG3	1.13	1.25
2:kQ:197:LYS:CE	1:mU:100:LYS:N	1.98	1.25
2:mw:198:GLU:OE2	1:oC:101:VAL:HG13	1.15	1.25
1:mG:102:GLU:HG3	2:op:62:GLN:OE1	1.13	1.25
2:pu:197:LYS:CE	1:pE:100:LYS:N	1.98	1.25
3:qh:84:TYR:HE1	6:qI:20:GLU:CG	1.49	1.25
6:qG:112:LEU:CG	6:qI:58:LEU:HD13	1.65	1.25
5:qH:241:PRO:HD3	5:qJ:268:GLU:OE2	1.13	1.25
2:aW:198:GLU:OE2	1:bi:101:VAL:HG13	1.15	1.25
1:bI:102:GLU:CG	2:hF:62:GLN:OE1	1.85	1.25
2:eu:62:GLN:OE1	1:gz:102:GLU:CG	1.85	1.25
1:fv:100:LYS:N	2:nm:197:LYS:CE	1.98	1.25
1:gl:100:LYS:N	2:hT:197:LYS:CE	1.98	1.25
1:gl:102:GLU:CG	2:hS:62:GLN:OE1	1.85	1.25
1:gY:102:GLU:OE1	1:mr:99:LEU:HA	1.33	1.25
1:jJ:102:GLU:HG3	2:pH:62:GLN:OE1	1.13	1.25
2:kP:62:GLN:OE1	1:mU:102:GLU:CG	1.85	1.25
5:qx:394:ILE:CD1	5:qz:405:ILE:CG2	2.13	1.25
1:aD:99:LEU:HA	1:hm:102:GLU:OE1	1.33	1.25
2:aV:62:GLN:OE1	1:bg:102:GLU:CG	1.85	1.25
1:cM:102:GLU:OE2	1:pB:99:LEU:HD11	1.17	1.25
1:cX:103:ARG:NH2	2:dH:61:GLY:O	1.70	1.25
2:dE:62:GLN:OE1	1:pc:102:GLU:CG	1.85	1.25
2:hF:197:LYS:CE	1:ky:100:LYS:N	1.98	1.25
1:la:100:LYS:N	2:mK:197:LYS:CE	1.98	1.25
1:la:102:GLU:HG3	2:mJ:62:GLN:OE1	1.13	1.25
2:lg:61:GLY:O	1:oy:103:ARG:NH2	1.70	1.25
6:qq:112:LEU:CG	6:qs:58:LEU:HD13	1.65	1.25
5:qz:394:ILE:CD1	5:qB:405:ILE:CG2	2.13	1.25
6:qA:112:LEU:CG	6:qC:58:LEU:HD13	1.65	1.25
5:qJ:252:LEU:HD22	6:qM:126:GLN:CB	1.65	1.25
2:ag:62:GLN:OE1	1:oO:102:GLU:CG	1.85	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ah:197:LYS:CE	1:oO:100:LYS:N	1.98	1.25
1:ap:60:ARG:CD	1:dl:99:LEU:HD13	1.63	1.25
1:ap:103:ARG:NH2	2:dt:61:GLY:O	1.70	1.25
1:be:103:ARG:NH2	2:kq:61:GLY:O	1.70	1.25
1:bu:102:GLU:CG	2:dc:62:GLN:OE1	1.85	1.25
1:bT:103:ARG:NH2	2:eZ:61:GLY:O	1.70	1.25
2:bZ:197:LYS:CE	1:iF:100:LYS:N	1.98	1.25
1:cZ:100:LYS:N	2:eJ:197:LYS:CE	1.98	1.25
1:ep:103:ARG:NH2	2:pi:61:GLY:O	1.70	1.25
1:eC:102:GLU:OE1	1:ic:99:LEU:HA	1.34	1.25
2:fN:198:GLU:OE2	1:fZ:101:VAL:HG13	1.15	1.25
1:fV:103:ARG:NH2	2:nC:61:GLY:O	1.70	1.25
1:hA:99:LEU:HD13	1:kw:60:ARG:NE	1.42	1.25
1:iD:103:ARG:NH2	2:pw:61:GLY:O	1.70	1.25
1:jJ:102:GLU:CG	2:pH:62:GLN:OE1	1.85	1.25
2:kt:111:GLY:N	5:qD:178:PRO:CD	1.99	1.25
2:nQ:61:GLY:O	1:pa:103:ARG:NH2	1.70	1.25
3:qe:68:ALA:HB1	4:ql:222:GLY:O	1.13	1.25
5:qH:394:ILE:CD1	5:qJ:405:ILE:CG2	2.13	1.25
1:ad:102:GLU:HG3	2:ob:62:GLN:OE1	1.13	1.25
2:aj:61:GLY:O	1:ng:103:ARG:NH2	1.70	1.25
2:aH:62:GLN:OE1	1:iT:102:GLU:CG	1.85	1.25
1:bd:102:GLU:OE1	1:iS:99:LEU:HA	1.33	1.25
1:bs:103:ARG:NH2	2:cb:61:GLY:O	1.70	1.25
1:cx:102:GLU:CG	2:pf:62:GLN:OE1	1.85	1.25
2:cD:61:GLY:O	1:dN:103:ARG:NH2	1.70	1.25
2:cO:62:GLN:OE1	1:eT:102:GLU:CG	1.85	1.25
1:cY:99:LEU:HA	1:dy:102:GLU:OE1	1.33	1.25
2:ex:61:GLY:O	1:nI:103:ARG:NH2	1.70	1.25
1:eD:99:LEU:HD13	1:ib:60:ARG:NE	1.42	1.25
1:eD:103:ARG:NH2	2:fn:61:GLY:O	1.70	1.25
1:hb:102:GLU:CG	2:lF:62:GLN:OE1	1.85	1.25
2:hs:62:GLN:OE1	1:hC:102:GLU:HG3	1.13	1.25
1:iE:99:LEU:HA	1:pn:102:GLU:OE1	1.33	1.25
1:js:99:LEU:HD11	1:lD:102:GLU:OE2	1.17	1.25
2:jy:62:GLN:OE1	1:pS:102:GLU:CG	1.85	1.25
2:jz:197:LYS:CE	1:pS:100:LYS:N	1.98	1.25
2:ko:32:LEU:CD2	5:qF:177:SER:CB	2.14	1.25
1:kY:103:ARG:NH2	2:lI:61:GLY:O	1.70	1.25
1:oo:101:VAL:HG13	2:pW:198:GLU:OE2	1.15	1.25
3:qf:68:ALA:CB	4:qk:222:GLY:O	1.84	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qt:394:ILE:CD1	5:qv:405:ILE:CG2	2.13	1.25
5:qv:394:ILE:CD1	5:qx:405:ILE:CG2	2.13	1.25
1:ap:60:ARG:NE	1:dl:99:LEU:HD13	1.42	1.24
1:bu:102:GLU:HG3	2:dc:62:GLN:OE1	1.13	1.24
2:bx:62:GLN:OE1	1:hP:102:GLU:CG	1.85	1.24
2:by:197:LYS:CE	1:hP:100:LYS:N	1.98	1.24
1:bV:100:LYS:N	2:dr:197:LYS:CE	1.98	1.24
2:cm:62:GLN:OE1	1:pq:102:GLU:CG	1.85	1.24
1:dL:102:GLU:OE2	1:pe:99:LEU:HD11	1.22	1.24
2:fk:62:GLN:OE1	1:nw:102:GLU:CG	1.85	1.24
1:gl:102:GLU:HG3	2:hS:62:GLN:OE1	1.13	1.24
2:gR:197:LYS:CE	1:lQ:100:LYS:N	1.98	1.24
1:hb:100:LYS:N	2:lG:197:LYS:CE	1.98	1.24
1:jd:102:GLU:OE2	1:jj:99:LEU:HD11	1.22	1.24
1:jt:103:ARG:NH2	2:kd:61:GLY:O	1.70	1.24
1:jx:101:VAL:HG13	2:le:198:GLU:OE2	1.15	1.24
2:kE:61:GLY:O	1:lO:103:ARG:NH2	1.70	1.24
1:lC:100:LYS:N	2:mY:197:LYS:CE	1.98	1.24
2:mv:62:GLN:OE1	1:oA:102:GLU:CG	1.85	1.24
2:nO:197:LYS:CE	1:nY:100:LYS:N	1.98	1.24
6:qw:112:LEU:CG	6:qy:58:LEU:HD13	1.65	1.24
6:qK:112:LEU:CG	6:qM:58:LEU:HD13	1.65	1.24
2:aK:61:GLY:O	1:kK:103:ARG:NH2	1.70	1.24
1:aS:102:GLU:CG	2:iI:62:GLN:OE1	1.85	1.24
2:bQ:97:GLY:CA	5:qp:51:GLU:CG	2.16	1.24
1:cg:99:LEU:HD11	1:lp:102:GLU:OE2	1.17	1.24
1:cl:99:LEU:HG	1:iB:102:GLU:CD	1.63	1.24
1:db:99:LEU:HG	1:eP:102:GLU:CD	1.63	1.24
1:dQ:102:GLU:OE2	1:jG:99:LEU:HD11	1.17	1.24
1:eC:99:LEU:HD11	1:gO:102:GLU:OE2	1.17	1.24
1:fj:99:LEU:HG	1:gJ:102:GLU:CD	1.63	1.24
1:ft:99:LEU:HD13	1:nW:60:ARG:NE	1.42	1.24
1:fv:102:GLU:CG	2:nl:62:GLN:OE1	1.85	1.24
2:fB:61:GLY:O	1:nW:103:ARG:NH2	1.70	1.24
1:hn:103:ARG:NH2	2:kS:61:GLY:O	1.70	1.24
2:hs:62:GLN:OE1	1:hC:102:GLU:CG	1.85	1.24
2:hK:104:GLN:OE1	5:qv:32:PHE:HE2	1.04	1.24
2:ix:61:GLY:O	1:pQ:103:ARG:NH2	1.70	1.24
2:kC:197:LYS:CE	1:kM:100:LYS:N	1.98	1.24
1:kW:102:GLU:CD	1:mW:99:LEU:HG	1.63	1.24
1:ln:99:LEU:HA	1:pP:102:GLU:OE1	1.34	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ok:103:ARG:NH2	2:oU:61:GLY:O	1.70	1.24
3:qg:63:GLN:HE21	4:qj:222:GLY:N	1.32	1.24
5:qr:241:PRO:HD3	5:qt:268:GLU:OE2	1.13	1.24
5:qr:394:ILE:CD1	5:qt:405:ILE:CG2	2.13	1.24
5:qB:394:ILE:CD1	5:qD:405:ILE:CG2	2.13	1.24
1:ad:102:GLU:CG	2:ob:62:GLN:OE1	1.85	1.24
1:aE:102:GLU:HG3	2:ka:62:GLN:OE1	1.13	1.24
1:bV:102:GLU:CG	2:dq:62:GLN:OE1	1.85	1.24
2:bY:62:GLN:OE1	1:iF:102:GLU:CG	1.85	1.24
1:cl:99:LEU:HD11	1:iB:102:GLU:OE2	1.22	1.24
1:cw:99:LEU:HA	1:pB:102:GLU:OE1	1.34	1.24
1:db:101:VAL:HG13	2:eJ:198:GLU:OE2	1.15	1.24
1:dD:99:LEU:HG	1:fd:102:GLU:CD	1.63	1.24
1:ff:103:ARG:NH2	2:ij:61:GLY:O	1.70	1.24
1:jr:102:GLU:CD	1:lq:99:LEU:HG	1.63	1.24
1:jH:99:LEU:HD13	1:oM:60:ARG:NE	1.42	1.24
2:kt:107:GLY:O	5:qD:178:PRO:CB	1.86	1.24
2:kB:62:GLN:OE1	1:kM:102:GLU:CG	1.85	1.24
1:kI:102:GLU:OE2	1:kO:99:LEU:HD11	1.22	1.24
2:mv:62:GLN:OE1	1:oA:102:GLU:HG3	1.13	1.24
1:mE:103:ARG:NH2	2:no:61:GLY:O	1.70	1.24
1:ni:100:LYS:N	2:oE:197:LYS:CE	1.98	1.24
5:qv:394:ILE:HD11	5:qx:405:ILE:CG2	1.67	1.24
1:ab:60:ARG:NE	1:mE:99:LEU:HD13	1.42	1.24
1:aP:99:LEU:HD11	1:pr:102:GLU:OE2	1.17	1.24
1:bw:99:LEU:HG	1:dj:102:GLU:CD	1.63	1.24
2:bQ:97:GLY:CA	5:qp:51:GLU:HG2	1.66	1.24
2:cB:197:LYS:CE	1:cL:100:LYS:N	1.98	1.24
1:dl:103:ARG:NH2	2:hV:61:GLY:O	1.70	1.24
2:dT:198:GLU:OE2	1:mM:101:VAL:HG13	1.15	1.24
1:eq:99:LEU:HA	1:oZ:102:GLU:OE1	1.33	1.24
2:ev:197:LYS:CE	1:gz:100:LYS:N	1.98	1.24
1:eB:102:GLU:CD	1:gB:99:LEU:HG	1.63	1.24
2:fM:62:GLN:OE1	1:fX:102:GLU:CG	1.85	1.24
2:fP:61:GLY:O	1:gZ:103:ARG:NH2	1.70	1.24
2:ga:62:GLN:OE1	1:id:102:GLU:CG	1.85	1.24
1:hd:101:VAL:HG13	2:lG:198:GLU:OE2	1.15	1.24
2:he:62:GLN:OE1	1:ky:102:GLU:CG	1.85	1.24
2:iX:198:GLU:OE2	1:jj:101:VAL:HG13	1.15	1.24
1:mc:99:LEU:HD13	1:nu:60:ARG:NE	1.42	1.24
2:mh:62:GLN:OE1	1:ms:102:GLU:CG	1.85	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qJ:394:ILE:HD11	5:qL:405:ILE:CG2	1.67	1.24
1:ar:102:GLU:CG	2:bL:62:GLN:OE1	1.85	1.24
1:aC:103:ARG:NH2	2:hu:61:GLY:O	1.70	1.24
1:cf:102:GLU:OE2	1:iH:99:LEU:HD11	1.22	1.24
2:eg:62:GLN:OE1	1:er:102:GLU:CG	1.85	1.24
1:fx:99:LEU:HG	1:ns:102:GLU:CD	1.63	1.24
2:gQ:62:GLN:OE1	1:lQ:102:GLU:CG	1.85	1.24
1:jv:100:LYS:N	2:le:197:LYS:CE	1.98	1.24
1:jX:102:GLU:CG	2:lr:62:GLN:OE1	1.85	1.24
2:kt:107:GLY:C	5:qD:178:PRO:HB3	1.60	1.24
1:mI:99:LEU:HG	1:ow:102:GLU:CD	1.63	1.24
2:pt:62:GLN:OE1	1:pE:102:GLU:CG	1.85	1.24
5:qp:268:GLU:OE2	5:qL:241:PRO:HD3	1.13	1.24
1:aA:102:GLU:CD	1:kn:99:LEU:HG	1.63	1.23
1:aE:102:GLU:CG	2:ka:62:GLN:OE1	1.85	1.23
2:aY:61:GLY:O	1:ch:103:ARG:NH2	1.70	1.23
1:bc:102:GLU:CD	1:bi:99:LEU:HG	1.63	1.23
2:bj:62:GLN:OE1	1:dn:102:GLU:CG	1.85	1.23
2:bm:61:GLY:O	1:iR:103:ARG:NH2	1.70	1.23
2:bA:61:GLY:O	1:eR:103:ARG:NH2	1.70	1.23
1:bG:103:ARG:NH2	2:gr:61:GLY:O	1.70	1.23
1:ea:99:LEU:HD11	1:mf:102:GLU:OE2	1.17	1.23
1:ed:100:LYS:N	2:nA:197:LYS:CE	1.98	1.23
1:ed:102:GLU:CG	2:nz:62:GLN:OE1	1.85	1.23
1:fT:102:GLU:CD	1:fZ:99:LEU:HG	1.63	1.23
1:fW:99:LEU:HA	1:nt:102:GLU:OE1	1.33	1.23
2:hh:61:GLY:O	1:mq:103:ARG:NH2	1.70	1.23
2:hH:61:GLY:O	1:kw:103:ARG:NH2	1.70	1.23
1:iq:99:LEU:HA	1:ll:102:GLU:OE1	1.33	1.23
1:ir:102:GLU:CG	2:jM:62:GLN:OE1	1.85	1.23
2:iX:197:LYS:CE	1:jh:100:LYS:N	1.98	1.23
2:jz:198:GLU:OE2	1:pU:101:VAL:HG13	1.15	1.23
1:jG:102:GLU:OE1	1:oN:99:LEU:HA	1.33	1.23
2:jP:61:GLY:O	1:oM:103:ARG:NH2	1.70	1.23
1:jZ:99:LEU:HG	1:ly:102:GLU:CD	1.63	1.23
1:la:102:GLU:CG	2:mJ:62:GLN:OE1	1.85	1.23
2:nN:62:GLN:OE1	1:nY:102:GLU:CG	1.85	1.23
1:om:100:LYS:N	2:pW:197:LYS:CE	1.98	1.23
5:qH:394:ILE:HD11	5:qJ:405:ILE:CG2	1.67	1.23
1:aF:103:ARG:HG3	2:nb:61:GLY:O	1.39	1.23
2:cA:62:GLN:OE1	1:cL:102:GLU:CG	1.85	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cJ:103:ARG:NH2	2:iL:61:GLY:O	1.70	1.23
1:dL:102:GLU:CD	1:pe:99:LEU:HG	1.63	1.23
2:gb:198:GLU:OE2	1:if:101:VAL:HG13	1.15	1.23
1:gj:103:ARG:NH2	2:gT:61:GLY:O	1.70	1.23
1:gN:102:GLU:CG	2:ig:62:GLN:OE1	1.85	1.23
1:hb:102:GLU:HG3	2:IF:62:GLN:OE1	1.13	1.23
1:hl:102:GLU:CD	1:kA:99:LEU:HG	1.63	1.23
1:jv:102:GLU:CG	2:ld:62:GLN:OE1	1.85	1.23
1:jF:102:GLU:CD	1:pU:99:LEU:HG	1.63	1.23
1:mG:102:GLU:CG	2:op:62:GLN:OE1	1.85	1.23
3:qd:64:GLY:O	4:qm:220:SER:O	1.53	1.23
3:qe:65:GLY:N	4:qm:10:GLN:NE2	1.85	1.23
1:af:99:LEU:HG	1:oi:102:GLU:CD	1.63	1.23
1:aG:99:LEU:HG	1:kh:102:GLU:CD	1.63	1.23
1:aQ:103:ARG:NH2	2:jn:61:GLY:O	1.70	1.23
1:cj:102:GLU:CG	2:iu:62:GLN:OE1	1.85	1.23
1:cZ:102:GLU:CG	2:eI:62:GLN:OE1	1.85	1.23
1:dB:102:GLU:CG	2:eW:62:GLN:OE1	1.85	1.23
1:dP:102:GLU:CG	2:oR:62:GLN:OE1	1.85	1.23
2:dV:61:GLY:O	1:pC:103:ARG:NH2	1.70	1.23
1:ef:99:LEU:HG	1:nG:102:GLU:CD	1.63	1.23
1:fh:100:LYS:N	2:gD:197:LYS:CE	1.98	1.23
2:iW:62:GLN:OE1	1:jh:102:GLU:CG	1.85	1.23
2:jk:62:GLN:OE1	1:lo:102:GLU:CG	1.85	1.23
1:jY:103:ARG:HG3	2:pZ:61:GLY:O	1.39	1.23
1:lm:103:ARG:NH2	2:pY:61:GLY:O	1.70	1.23
1:mo:102:GLU:CD	1:mu:99:LEU:HG	1.63	1.23
3:qg:63:GLN:HE21	4:qj:221:ASP:C	1.46	1.23
5:qD:394:ILE:HD11	5:qF:405:ILE:CG2	1.67	1.23
5:qF:241:PRO:HD3	5:qH:268:GLU:OE2	1.13	1.23
5:qJ:241:PRO:HD3	5:qL:268:GLU:OE2	1.13	1.23
2:bO:61:GLY:O	1:lR:103:ARG:HG3	1.39	1.23
1:bX:101:VAL:HG13	2:dr:198:GLU:OE2	1.15	1.23
1:cv:103:ARG:NH2	2:pK:61:GLY:O	1.70	1.23
2:cR:61:GLY:O	1:po:103:ARG:NH2	1.70	1.23
1:eF:102:GLU:CG	2:go:62:GLN:OE1	1.85	1.23
1:eH:99:LEU:HG	1:gv:102:GLU:CD	1.63	1.23
2:fk:62:GLN:OE1	1:nw:102:GLU:HG3	1.13	1.23
2:fy:62:GLN:OE1	1:me:102:GLU:CG	1.85	1.23
1:fF:102:GLU:CD	1:mg:99:LEU:HG	1.63	1.23
1:fG:102:GLU:OE1	1:ha:99:LEU:HA	1.33	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fI:99:LEU:HA	1:mp:102:GLU:OE1	1.33	1.23
1:fU:102:GLU:OE1	1:md:99:LEU:HA	1.34	1.23
1:gX:102:GLU:CD	1:lS:99:LEU:HG	1.63	1.23
1:hc:103:ARG:HG3	2:oH:61:GLY:O	1.39	1.23
1:hA:103:ARG:NH2	2:lW:61:GLY:O	1.70	1.23
1:it:101:VAL:HG13	2:jN:198:GLU:OE2	1.15	1.23
1:jH:103:ARG:NH2	2:os:61:GLY:O	1.70	1.23
1:lc:99:LEU:HG	1:mQ:102:GLU:CD	1.63	1.23
1:om:102:GLU:CG	2:pV:62:GLN:OE1	1.85	1.23
3:qh:68:ALA:HB1	4:qo:222:GLY:O	1.14	1.23
1:aU:99:LEU:HD11	1:iP:102:GLU:OE2	1.22	1.23
2:bj:62:GLN:OE1	1:dn:102:GLU:HG3	1.13	1.23
1:br:102:GLU:OE1	1:eS:99:LEU:HA	1.33	1.23
1:bU:99:LEU:HA	1:eQ:102:GLU:OE1	1.33	1.23
1:dD:99:LEU:HD11	1:fd:102:GLU:OE2	1.22	1.23
1:dR:99:LEU:HG	1:oY:102:GLU:CD	1.63	1.23
2:dS:62:GLN:OE1	1:nK:102:GLU:CG	1.85	1.23
1:fh:102:GLU:CG	2:gC:62:GLN:OE1	1.85	1.23
1:fL:99:LEU:HG	1:ma:102:GLU:CD	1.63	1.23
2:fN:197:LYS:CE	1:fX:100:LYS:H	1.52	1.23
1:gn:99:LEU:HG	1:hZ:102:GLU:CD	1.63	1.23
2:gR:197:LYS:CE	1:lQ:100:LYS:H	1.52	1.23
1:ip:103:ARG:NH2	2:lu:61:GLY:O	1.70	1.23
2:iZ:61:GLY:O	1:kj:103:ARG:NH2	1.70	1.23
2:jz:197:LYS:CE	1:pS:100:LYS:H	1.52	1.23
2:kC:197:LYS:CE	1:kM:100:LYS:H	1.52	1.23
5:qp:394:ILE:HD11	5:qr:405:ILE:CG2	1.67	1.23
1:ab:103:ARG:NH2	2:mM:61:GLY:O	1.70	1.22
1:an:102:GLU:CD	1:oQ:99:LEU:HG	1.63	1.22
2:au:62:GLN:OE1	1:kl:102:GLU:CG	1.85	1.22
1:cf:102:GLU:CD	1:iH:99:LEU:HG	1.63	1.22
2:cp:61:GLY:O	1:jf:103:ARG:NH2	1.70	1.22
1:dA:99:LEU:HA	1:gw:102:GLU:OE1	1.34	1.22
1:eb:60:ARG:NE	1:nW:99:LEU:HD13	1.42	1.22
2:gd:61:GLY:O	1:mc:103:ARG:NH2	1.70	1.22
2:ik:61:GLY:O	1:nx:103:ARG:HG3	1.39	1.22
1:it:99:LEU:HG	1:jT:102:GLU:CD	1.63	1.22
2:iX:197:LYS:CE	1:jh:100:LYS:H	1.52	1.22
1:jv:100:LYS:H	2:le:197:LYS:CE	1.52	1.22
1:mG:100:LYS:H	2:oq:197:LYS:CE	1.52	1.22
1:nk:99:LEU:HG	1:oK:102:GLU:CD	1.63	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qh:67:ARG:N	4:qj:194:LEU:CD1	2.01	1.22
3:qi:68:ALA:HB1	4:qn:222:GLY:O	1.08	1.22
5:qD:252:LEU:HD22	6:qG:126:GLN:CG	1.70	1.22
2:aw:61:GLY:O	1:hN:103:ARG:NH2	1.70	1.22
2:cn:197:LYS:CE	1:pq:100:LYS:H	1.52	1.22
1:cH:102:GLU:CD	1:cN:99:LEU:HG	1.63	1.22
1:eb:103:ARG:NH2	2:oe:61:GLY:O	1.70	1.22
2:ev:197:LYS:CE	1:gz:100:LYS:H	1.52	1.22
2:eL:61:GLY:O	1:ib:103:ARG:NH2	1.70	1.22
1:fJ:102:GLU:CG	2:IT:62:GLN:OE1	1.85	1.22
2:fQ:61:GLY:O	1:kz:103:ARG:HG3	1.39	1.22
2:ga:62:GLN:OE1	1:id:102:GLU:HG3	1.13	1.22
1:hr:99:LEU:HG	1:ku:102:GLU:CD	1.63	1.22
2:hF:92:GLU:OE2	5:qx:178:PRO:HG2	1.07	1.22
1:kI:102:GLU:CD	1:kO:99:LEU:HG	1.63	1.22
1:lC:102:GLU:CG	2:mX:62:GLN:OE1	1.85	1.22
1:lE:99:LEU:HG	1:ne:102:GLU:CD	1.63	1.22
1:pA:102:GLU:CD	1:pG:99:LEU:HG	1.63	1.22
3:qf:55:GLU:CD	4:ql:223:ASN:HD22	1.47	1.22
5:qt:252:LEU:HD22	6:qw:126:GLN:CG	1.70	1.22
5:qx:252:LEU:HD22	6:qA:126:GLN:CG	1.70	1.22
2:ax:61:GLY:O	1:gm:103:ARG:HG3	1.39	1.22
1:aO:102:GLU:CD	1:iV:99:LEU:HG	1.63	1.22
1:aS:100:LYS:H	2:iJ:197:LYS:CE	1.52	1.22
1:aU:99:LEU:HG	1:iP:102:GLU:CD	1.63	1.22
1:ch:99:LEU:HD13	1:jf:60:ARG:NE	1.42	1.22
1:cV:102:GLU:CD	1:eV:99:LEU:HG	1.63	1.22
1:cZ:100:LYS:H	2:eJ:197:LYS:CE	1.52	1.22
2:ej:61:GLY:O	1:ft:103:ARG:NH2	1.70	1.22
1:fH:103:ARG:NH2	2:my:61:GLY:O	1.70	1.22
2:hX:190:PRO:CD	5:qx:47:ARG:HD3	1.66	1.22
1:jD:102:GLU:CD	1:jj:99:LEU:HG	1.63	1.22
1:lA:103:ARG:NH2	2:oG:61:GLY:O	1.70	1.22
1:ni:102:GLU:CG	2:oD:62:GLN:OE1	1.85	1.22
3:qd:61:ASP:HA	4:qn:33:SER:OG	1.40	1.22
5:qx:394:ILE:HD11	5:qz:405:ILE:CG2	1.67	1.22
5:qz:252:LEU:HD22	6:qC:126:GLN:CG	1.70	1.22
1:aQ:99:LEU:HA	1:dk:102:GLU:OE1	1.33	1.22
1:at:99:LEU:HG	1:bR:102:GLU:CD	1.63	1.22
1:bQ:102:GLU:CD	1:dp:99:LEU:HG	1.63	1.22
1:bK:99:LEU:HG	1:hL:102:GLU:CD	1.63	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bQ:95:ASN:OD1	5:qp:47:ARG:NH1	1.71	1.22
1:bX:99:LEU:HG	1:dx:102:GLU:CD	1.63	1.22
1:ct:102:GLU:CD	1:ps:99:LEU:HG	1.63	1.22
1:cz:99:LEU:HD11	1:pm:102:GLU:OE2	1.22	1.22
2:df:61:GLY:O	1:gx:103:ARG:NH2	1.70	1.22
1:ep:99:LEU:HD13	1:nI:60:ARG:NE	1.42	1.22
1:eD:60:ARG:NE	1:ff:99:LEU:HD13	1.42	1.22
1:gl:100:LYS:H	2:hT:197:LYS:CE	1.52	1.22
1:gN:100:LYS:H	2:ih:197:LYS:CE	1.52	1.22
1:hA:60:ARG:NE	1:lO:99:LEU:HD13	1.42	1.22
2:mk:61:GLY:O	1:nu:103:ARG:NH2	1.70	1.22
1:oo:99:LEU:HG	1:qc:102:GLU:CD	1.63	1.22
3:qf:68:ALA:N	4:ql:8:TYR:HE2	1.38	1.22
5:qF:252:LEU:HD22	6:qI:126:GLN:CG	1.70	1.22
5:qF:394:ILE:HD11	5:qH:405:ILE:CG2	1.67	1.22
1:aT:103:ARG:HG3	2:px:61:GLY:O	1.39	1.22
1:bu:100:LYS:H	2:dd:197:LYS:CE	1.52	1.22
1:bE:102:GLU:CD	1:hR:99:LEU:HG	1.63	1.22
1:bl:102:GLU:HG3	2:hF:62:GLN:OE1	1.13	1.22
2:cE:61:GLY:O	1:nL:103:ARG:HG3	1.39	1.22
1:dz:103:ARG:NH2	2:gF:61:GLY:O	1.70	1.22
2:dF:197:LYS:CE	1:pc:100:LYS:H	1.52	1.22
1:hp:102:GLU:CG	2:ko:62:GLN:OE1	1.85	1.22
1:ip:99:LEU:HD13	1:pQ:60:ARG:NE	1.42	1.22
1:jw:103:ARG:HG3	2:lJ:61:GLY:O	1.39	1.22
1:jL:99:LEU:HG	1:pO:102:GLU:CD	1.63	1.22
2:lh:61:GLY:O	1:nj:103:ARG:HG3	1.39	1.22
2:mi:197:LYS:CE	1:ms:100:LYS:H	1.52	1.22
1:mC:102:GLU:CD	1:oc:99:LEU:HG	1.63	1.22
1:cj:100:LYS:H	2:iv:197:LYS:CE	1.52	1.21
1:cz:99:LEU:HG	1:pm:102:GLU:CD	1.63	1.21
2:cP:197:LYS:CE	1:eT:100:LYS:H	1.52	1.21
1:da:103:ARG:HG3	2:fo:61:GLY:O	1.39	1.21
1:dZ:102:GLU:CD	1:nM:99:LEU:HG	1.63	1.21
1:en:102:GLU:CD	1:et:99:LEU:HG	1.63	1.21
1:jx:99:LEU:HG	1:lk:102:GLU:CD	1.63	1.21
1:jV:103:ARG:NH2	2:na:61:GLY:O	1.70	1.21
1:kX:102:GLU:OE1	1:oz:99:LEU:HA	1.33	1.21
1:mb:102:GLU:OE1	1:nv:99:LEU:HA	1.34	1.21
5:qp:252:LEU:HD22	6:qs:126:GLN:CG	1.70	1.21
5:qr:252:LEU:HD22	6:qu:126:GLN:CG	1.69	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qH:252:LEU:HD22	6:qK:126:GLN:CG	1.70	1.21
5:qJ:252:LEU:HD22	6:qM:126:GLN:CG	1.70	1.21
2:bn:61:GLY:O	1:ji:103:ARG:HG3	1.39	1.21
2:bB:61:GLY:O	1:dC:103:ARG:HG3	1.39	1.21
1:cX:60:ARG:NE	1:dz:99:LEU:HD13	1.42	1.21
1:lC:100:LYS:H	2:mY:197:LYS:CE	1.52	1.21
4:qj:202:ILE:HD13	4:qo:116:PHE:CE1	1.75	1.21
5:qp:405:ILE:CG2	5:qL:394:ILE:HD11	1.67	1.21
5:qr:394:ILE:HD11	5:qt:405:ILE:CG2	1.67	1.21
5:qB:394:ILE:HD11	5:qD:405:ILE:CG2	1.67	1.21
2:ak:61:GLY:O	1:fw:103:ARG:HG3	1.39	1.21
1:do:103:ARG:HG3	2:kr:61:GLY:O	1.39	1.21
2:ek:61:GLY:O	1:mf:103:ARG:HG3	1.39	1.21
1:fh:100:LYS:H	2:gD:197:LYS:CE	1.52	1.21
1:gh:102:GLU:CD	1:if:99:LEU:HG	1.63	1.21
2:hs:170:TRP:N	5:qz:178:PRO:HG3	1.53	1.21
1:mH:103:ARG:HG3	2:oV:61:GLY:O	1.39	1.21
2:nO:197:LYS:CE	1:nY:100:LYS:H	1.52	1.21
4:qm:116:PHE:CE1	4:qn:202:ILE:HD13	1.75	1.21
1:ad:100:LYS:H	2:oc:197:LYS:CE	1.52	1.21
2:dg:61:GLY:O	1:fi:103:ARG:HG3	1.39	1.21
1:hd:99:LEU:HG	1:lM:102:GLU:CD	1.63	1.21
2:hF:197:LYS:CE	1:ky:100:LYS:H	1.52	1.21
2:hi:61:GLY:O	1:oB:103:ARG:HG3	1.39	1.21
1:hy:102:GLU:CD	1:hE:99:LEU:HG	1.63	1.21
2:hI:61:GLY:O	1:kN:103:ARG:HG3	1.39	1.21
1:ju:99:LEU:HA	1:jU:102:GLU:OE1	1.33	1.21
1:jJ:100:LYS:H	2:pI:197:LYS:CE	1.52	1.21
1:jV:60:ARG:NE	1:mS:99:LEU:HD13	1.42	1.21
1:kZ:99:LEU:HA	1:lz:102:GLU:OE1	1.33	1.21
2:nN:62:GLN:OE1	1:nY:102:GLU:HG3	1.13	1.21
6:qq:126:GLN:CG	5:qL:252:LEU:HD22	1.70	1.21
1:ab:60:ARG:HH21	1:mE:99:LEU:CD2	1.54	1.21
2:aW:197:LYS:CE	1:bg:100:LYS:H	1.52	1.21
1:be:60:ARG:HH21	1:kj:99:LEU:CD2	1.54	1.21
1:bS:99:LEU:CG	1:hQ:102:GLU:HG3	1.71	1.21
2:bZ:197:LYS:CE	1:iF:100:LYS:H	1.52	1.21
1:cW:102:GLU:OE1	1:gy:99:LEU:HA	1.33	1.21
1:dM:99:LEU:CG	1:jK:102:GLU:HG3	1.71	1.21
1:ee:103:ARG:HG3	2:ml:61:GLY:O	1.39	1.21
1:fr:102:GLU:CD	1:ny:99:LEU:HG	1.63	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gA:103:ARG:HG3	2:pj:61:GLY:O	1.39	1.21
2:jl:197:LYS:CE	1:lo:100:LYS:H	1.52	1.21
4:qj:116:PHE:CE1	4:qk:202:ILE:HD13	1.75	1.21
1:aB:99:LEU:CG	1:mV:102:GLU:HG3	1.71	1.20
1:aF:102:GLU:HG3	1:mR:99:LEU:CG	1.71	1.20
1:bW:102:GLU:HG3	1:hM:99:LEU:CG	1.71	1.20
1:bW:103:ARG:HG3	2:hW:61:GLY:O	1.39	1.20
2:cS:61:GLY:O	1:pF:103:ARG:HG3	1.39	1.20
1:dQ:102:GLU:HG3	1:jG:99:LEU:CG	1.71	1.20
1:ep:99:LEU:CD2	1:nI:60:ARG:HH21	1.54	1.20
1:gA:102:GLU:HG3	1:oZ:99:LEU:CG	1.71	1.20
1:gP:99:LEU:HG	1:in:102:GLU:CD	1.63	1.20
2:hs:107:GLY:CA	5:qB:178:PRO:HD3	1.69	1.20
2:ko:36:THR:OG1	5:qF:176:ASN:ND2	1.73	1.20
1:nU:102:GLU:CD	1:oa:99:LEU:HG	1.63	1.20
1:ok:60:ARG:HH21	1:oM:99:LEU:CD2	1.55	1.20
4:ql:116:PHE:CE1	4:qm:202:ILE:HD13	1.75	1.20
1:aC:60:ARG:HH21	1:hn:99:LEU:CD2	1.54	1.20
1:bG:60:ARG:HH21	1:gj:99:LEU:CD2	1.55	1.20
1:bJ:103:ARG:HG3	2:IX:61:GLY:O	1.39	1.20
2:bN:61:GLY:O	1:gL:103:ARG:NH2	1.70	1.20
1:bV:100:LYS:H	2:dr:197:LYS:CE	1.52	1.20
1:cy:102:GLU:HG3	1:nH:99:LEU:CG	1.71	1.20
1:do:102:GLU:HG3	1:ki:99:LEU:CG	1.71	1.20
1:dQ:103:ARG:HG3	2:jQ:61:GLY:O	1.39	1.20
1:eQ:99:LEU:CG	1:iG:102:GLU:HG3	1.71	1.20
1:io:99:LEU:CG	1:on:102:GLU:HG3	1.71	1.20
1:jt:60:ARG:HH21	1:jV:99:LEU:CD2	1.54	1.20
1:kX:99:LEU:CG	1:nj:102:GLU:HG3	1.71	1.20
1:kY:60:ARG:NE	1:lA:99:LEU:HD13	1.42	1.20
1:lb:102:GLU:HG3	1:nf:99:LEU:CG	1.71	1.20
3:qe:55:GLU:CD	4:qm:223:ASN:HD22	1.48	1.20
2:ah:197:LYS:CE	1:oO:100:LYS:H	1.52	1.20
1:aT:102:GLU:HG3	1:pn:99:LEU:CG	1.71	1.20
1:bc:103:ARG:NH1	2:bk:60:ILE:O	1.75	1.20
1:cv:99:LEU:HD13	1:dN:60:ARG:NE	1.42	1.20
1:cI:102:GLU:OE1	1:pp:99:LEU:HA	1.34	1.20
1:dk:99:LEU:CG	1:km:102:GLU:HG3	1.71	1.20
2:dT:197:LYS:CE	1:nK:100:LYS:H	1.52	1.20
1:fV:60:ARG:HH21	1:nu:99:LEU:CD2	1.54	1.20
1:gw:99:LEU:CG	1:pd:102:GLU:HG3	1.71	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gR:60:ILE:O	1:in:103:ARG:NH1	1.75	1.20
2:hf:60:ILE:O	1:IM:103:ARG:NH1	1.75	1.20
1:hm:99:LEU:CG	1:iU:102:GLU:HG3	1.71	1.20
1:hn:60:ARG:HH21	1:kK:99:LEU:CD2	1.55	1.20
2:hv:61:GLY:O	1:iU:103:ARG:HG3	1.39	1.20
1:ie:103:ARG:HG3	2:nD:61:GLY:O	1.39	1.20
2:jB:61:GLY:O	1:mS:103:ARG:NH2	1.70	1.20
1:jW:99:LEU:HA	1:mR:102:GLU:OE1	1.33	1.20
2:kt:107:GLY:C	5:qD:178:PRO:CB	2.15	1.20
1:kY:60:ARG:HH21	1:lA:99:LEU:CD2	1.54	1.20
2:mK:60:ILE:O	1:ow:103:ARG:NH1	1.75	1.20
1:om:100:LYS:H	2:pW:197:LYS:CE	1.52	1.20
1:pA:103:ARG:NH1	2:pI:60:ILE:O	1.75	1.20
3:qe:61:ASP:HA	4:qm:33:SER:OG	1.42	1.20
4:qn:116:PHE:CE1	4:qo:202:ILE:HD13	1.75	1.20
5:qv:252:LEU:HD22	6:qy:126:GLN:CG	1.70	1.20
5:qB:252:LEU:HD22	6:qE:126:GLN:CG	1.70	1.20
1:ab:99:LEU:CD2	1:ng:60:ARG:HH21	1.54	1.20
2:ah:60:ILE:O	1:oi:103:ARG:NH1	1.75	1.20
1:ao:102:GLU:OE1	1:hO:99:LEU:HA	1.33	1.20
1:bd:99:LEU:CG	1:ji:102:GLU:HG3	1.71	1.20
1:bh:103:ARG:HG3	2:jo:61:GLY:O	1.39	1.20
1:bG:60:ARG:NE	1:gj:99:LEU:HD13	1.42	1.20
1:bG:99:LEU:CD2	1:gL:60:ARG:HH21	1.54	1.20
1:cf:103:ARG:NH1	2:iJ:60:ILE:O	1.75	1.20
1:cg:99:LEU:CG	1:lp:102:GLU:HG3	1.71	1.20
1:ck:102:GLU:HG3	1:ll:99:LEU:CG	1.71	1.20
1:dN:99:LEU:CD2	1:pC:60:ARG:HH21	1.54	1.20
1:ee:102:GLU:HG3	1:mb:99:LEU:CG	1.71	1.20
2:eJ:60:ILE:O	1:gv:103:ARG:NH1	1.75	1.20
1:fF:103:ARG:NH1	2:mi:60:ILE:O	1.75	1.20
2:fP:197:LYS:HD2	1:fY:99:LEU:HA	1.20	1.20
2:gG:61:GLY:O	1:pd:103:ARG:HG3	1.39	1.20
1:ho:99:LEU:HA	1:kJ:102:GLU:OE1	1.34	1.20
1:hq:102:GLU:HG3	1:iQ:99:LEU:CG	1.71	1.20
1:hA:99:LEU:CD2	1:kw:60:ARG:HH21	1.54	1.20
2:iv:60:ILE:O	1:jT:103:ARG:NH1	1.75	1.20
2:kt:111:GLY:CA	5:qD:178:PRO:HD2	1.70	1.20
3:qi:64:GLY:O	4:qn:220:SER:O	1.58	1.20
4:qk:116:PHE:CE1	4:ql:202:ILE:HD13	1.75	1.20
1:ap:60:ARG:HH21	1:dl:99:LEU:CD2	1.54	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cu:99:LEU:CG	1:nL:102:GLU:HG3	1.71	1.20
1:ea:99:LEU:CG	1:mf:102:GLU:HG3	1.71	1.20
1:eC:99:LEU:CG	1:gO:102:GLU:HG3	1.71	1.20
1:fr:103:ARG:NH1	2:nA:60:ILE:O	1.75	1.20
1:fK:102:GLU:HG3	1:kv:99:LEU:CG	1.71	1.20
1:gY:99:LEU:CG	1:oB:102:GLU:HG3	1.71	1.20
1:gZ:99:LEU:HD13	1:mq:60:ARG:NE	1.42	1.20
1:hn:60:ARG:NE	1:kK:99:LEU:HD13	1.42	1.20
1:hA:60:ARG:HH21	1:lO:99:LEU:CD2	1.54	1.20
1:is:102:GLU:HG3	1:oj:99:LEU:CG	1.71	1.20
2:jN:60:ILE:O	1:pO:103:ARG:NH1	1.75	1.20
2:kE:197:LYS:HD2	1:kN:99:LEU:HA	1.21	1.20
1:mH:102:GLU:HG3	1:oL:99:LEU:CG	1.71	1.20
2:nm:60:ILE:O	1:oK:103:ARG:NH1	1.75	1.20
3:qi:84:TYR:HE1	6:qM:20:GLU:CD	1.43	1.20
5:qt:394:ILE:HD11	5:qv:405:ILE:CG2	1.67	1.20
1:as:102:GLU:HG3	1:gi:99:LEU:CG	1.71	1.19
1:bs:60:ARG:NE	1:bT:99:LEU:HD13	1.42	1.19
2:dd:60:ILE:O	1:eP:103:ARG:NH1	1.75	1.19
1:eo:102:GLU:OE1	1:nJ:99:LEU:HA	1.33	1.19
1:eD:99:LEU:CD2	1:ib:60:ARG:HH21	1.54	1.19
1:fs:102:GLU:OE1	1:nX:99:LEU:HA	1.34	1.19
1:ft:99:LEU:CD2	1:nW:60:ARG:HH21	1.54	1.19
2:jz:60:ILE:O	1:lk:103:ARG:NH1	1.75	1.19
2:kb:60:ILE:O	1:ly:103:ARG:NH1	1.75	1.19
2:ko:32:LEU:CG	5:qF:177:SER:CB	2.10	1.19
2:kt:181:PRO:HB2	5:qD:175:ASP:O	1.37	1.19
1:mo:103:ARG:NH1	2:mw:60:ILE:O	1.75	1.19
2:pu:197:LYS:CE	1:pE:100:LYS:H	1.52	1.19
1:aP:102:GLU:OE1	1:ci:99:LEU:HA	1.33	1.19
1:aQ:99:LEU:CD2	1:ch:60:ARG:HH21	1.54	1.19
2:aZ:61:GLY:O	1:pr:103:ARG:HG3	1.39	1.19
1:bv:103:ARG:HG3	2:dI:61:GLY:O	1.39	1.19
2:by:60:ILE:O	1:dj:103:ARG:NH1	1.75	1.19
2:bZ:60:ILE:O	1:dx:103:ARG:NH1	1.75	1.19
1:cM:102:GLU:HG3	1:pB:99:LEU:CG	1.71	1.19
2:dW:61:GLY:O	1:jK:103:ARG:HG3	1.39	1.19
1:eU:102:GLU:HG3	1:iC:99:LEU:CG	1.71	1.19
1:fT:103:ARG:NH1	2:gb:60:ILE:O	1.75	1.19
1:fV:60:ARG:NE	1:nu:99:LEU:HD13	1.42	1.19
1:fV:99:LEU:CD2	1:mc:60:ARG:HH21	1.54	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hq:103:ARG:HG3	2:ja:61:GLY:O	1.39	1.19
1:ie:102:GLU:HG3	1:nt:99:LEU:CG	1.71	1.19
1:is:99:LEU:HA	2:jP:197:LYS:HD2	1.21	1.19
1:iQ:102:GLU:OE1	1:kk:99:LEU:HA	1.33	1.19
1:kW:103:ARG:NH1	2:mY:60:ILE:O	1.75	1.19
1:lA:60:ARG:HH21	1:oy:99:LEU:CD2	1.54	1.19
1:ni:100:LYS:H	2:oe:197:LYS:CE	1.52	1.19
5:qp:229:ILE:HD11	5:qr:232:LEU:HD11	1.22	1.19
2:aj:197:LYS:HD2	1:op:99:LEU:HA	1.21	1.19
1:aO:103:ARG:NH1	2:iX:60:ILE:O	1.75	1.19
2:bk:197:LYS:CE	1:dn:100:LYS:H	1.52	1.19
1:cI:99:LEU:CG	1:pF:102:GLU:HG3	1.71	1.19
2:dF:60:ILE:O	1:fd:103:ARG:NH1	1.75	1.19
1:dM:102:GLU:OE1	1:pD:99:LEU:HA	1.34	1.19
1:dP:100:LYS:H	2:oS:197:LYS:CE	1.52	1.19
1:en:103:ARG:NH1	2:ev:60:ILE:O	1.75	1.19
1:eD:60:ARG:HH21	1:ff:99:LEU:CD2	1.55	1.19
1:ff:60:ARG:NE	1:ib:99:LEU:HD13	1.42	1.19
1:fH:60:ARG:HH21	1:mq:99:LEU:CD2	1.55	1.19
1:gj:60:ARG:HH21	1:gL:99:LEU:CD2	1.54	1.19
1:gO:99:LEU:HA	2:ij:197:LYS:HD2	1.20	1.19
1:ip:60:ARG:HH21	1:lm:99:LEU:CD2	1.55	1.19
1:jF:103:ARG:NH1	2:pW:60:ILE:O	1.75	1.19
1:jH:99:LEU:CD2	1:oM:60:ARG:HH21	1.54	1.19
1:mC:103:ARG:NH1	2:oe:60:ILE:O	1.75	1.19
1:nj:99:LEU:HA	2:oG:197:LYS:HD2	1.20	1.19
3:qh:84:TYR:CE1	6:qI:20:GLU:CD	2.17	1.19
5:qz:394:ILE:HD11	5:qB:405:ILE:CG2	1.67	1.19
6:qA:109:SER:O	6:qC:50:LEU:HD23	1.43	1.19
6:qE:109:SER:O	6:qG:50:LEU:HD23	1.43	1.19
1:ao:99:LEU:CG	1:gm:102:GLU:HG3	1.71	1.19
1:ap:99:LEU:CD2	1:hN:60:ARG:HH21	1.54	1.19
1:bh:102:GLU:HG3	1:je:99:LEU:CG	1.71	1.19
1:br:99:LEU:CG	1:dC:102:GLU:HG3	1.71	1.19
1:bJ:102:GLU:HG3	1:lN:99:LEU:CG	1.71	1.19
1:cx:100:LYS:H	2:pg:197:LYS:CE	1.52	1.19
2:cB:197:LYS:CE	1:cL:100:LYS:H	1.52	1.19
1:cJ:99:LEU:CD2	1:po:60:ARG:HH21	1.55	1.19
1:dL:103:ARG:NH1	2:pg:60:ILE:O	1.75	1.19
1:eb:60:ARG:HH21	1:nW:99:LEU:CD2	1.54	1.19
2:ey:61:GLY:O	1:nZ:103:ARG:HG3	1.39	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eU:103:ARG:HG3	2:iM:61:GLY:O	1.39	1.19
1:fJ:100:LYS:H	2:IU:197:LYS:CE	1.52	1.19
2:jC:61:GLY:O	1:ID:103:ARG:HG3	1.39	1.19
1:jY:102:GLU:HG3	1:pP:99:LEU:CG	1.71	1.19
2:ko:32:LEU:CD2	5:qF:177:SER:HA	1.62	1.19
3:qe:61:ASP:CA	4:qm:33:SER:HB2	1.71	1.19
5:qr:229:ILE:HD11	5:qt:232:LEU:HD11	1.22	1.19
1:ab:99:LEU:HD13	1:ng:60:ARG:NE	1.42	1.19
1:as:103:ARG:HG3	2:gs:61:GLY:O	1.39	1.19
2:az:103:MET:HE2	5:qJ:32:PHE:CE2	1.78	1.19
1:bv:102:GLU:HG3	1:dy:99:LEU:CG	1.71	1.19
2:cc:61:GLY:O	1:hQ:103:ARG:HG3	1.39	1.19
1:cH:103:ARG:NH1	2:cP:60:ILE:O	1.75	1.19
1:cJ:60:ARG:HH21	1:iD:99:LEU:CD2	1.55	1.19
1:cV:103:ARG:NH1	2:eX:60:ILE:O	1.75	1.19
1:cW:99:LEU:CG	1:f:102:GLU:HG3	1.71	1.19
1:cX:99:LEU:CD2	1:gx:60:ARG:HH21	1.54	1.19
1:dz:60:ARG:HH21	1:gx:99:LEU:CD2	1.55	1.19
1:eo:99:LEU:CG	1:nZ:102:GLU:HG3	1.71	1.19
1:eF:100:LYS:H	2:gp:197:LYS:CE	1.52	1.19
2:fN:60:ILE:O	1:ma:103:ARG:NH1	1.75	1.19
1:gZ:99:LEU:CD2	1:mq:60:ARG:HH21	1.54	1.19
1:hz:99:LEU:CG	1:kN:102:GLU:HG3	1.71	1.19
1:jd:103:ARG:NH1	2:jl:60:ILE:O	1.75	1.19
1:kw:99:LEU:CD2	1:IO:60:ARG:HH21	1.54	1.19
2:le:60:ILE:O	1:mQ:103:ARG:NH1	1.75	1.19
1:mD:99:LEU:CG	1:oP:102:GLU:HG3	1.71	1.19
1:ae:102:GLU:HG3	1:fs:99:LEU:CG	1.71	1.18
2:au:204:PHE:CE1	5:qL:178:PRO:HG3	1.77	1.18
2:az:183:ILE:HG21	5:qH:178:PRO:CB	1.72	1.18
1:aQ:60:ARG:HH21	1:jf:99:LEU:CD2	1.54	1.18
1:bs:99:LEU:CD2	1:eR:60:ARG:HH21	1.54	1.18
1:ch:99:LEU:CD2	1:jf:60:ARG:HH21	1.54	1.18
2:cp:197:LYS:HD2	1:pr:99:LEU:HA	1.21	1.18
1:cM:103:ARG:HG3	2:pL:61:GLY:O	1.39	1.18
1:dl:60:ARG:HH21	1:hN:99:LEU:CD2	1.54	1.18
1:dz:60:ARG:NE	1:gx:99:LEU:HD13	1.42	1.18
2:eh:60:ILE:O	1:nG:103:ARG:NH1	1.75	1.18
1:es:103:ARG:HG3	2:of:61:GLY:O	1.39	1.18
1:fG:99:LEU:CG	1:kz:102:GLU:HG3	1.71	1.18
1:fK:103:ARG:HG3	2:kF:61:GLY:O	1.39	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:io:102:GLU:OE1	1:pR:99:LEU:HA	1.34	1.18
1:ip:99:LEU:CD2	1:pQ:60:ARG:HH21	1.54	1.18
1:iR:99:LEU:CD2	1:kj:60:ARG:HH21	1.54	1.18
1:jw:102:GLU:HG3	1:lz:99:LEU:CG	1.71	1.18
1:kY:99:LEU:CD2	1:oy:60:ARG:HH21	1.54	1.18
1:lb:103:ARG:HG3	2:np:61:GLY:O	1.39	1.18
1:mE:60:ARG:NE	1:ng:99:LEU:HD13	1.42	1.18
1:nU:103:ARG:NH1	2:oc:60:ILE:O	1.75	1.18
2:aw:197:LYS:HD2	1:km:99:LEU:HA	1.20	1.18
1:aR:99:LEU:HA	1:je:102:GLU:OE1	1.33	1.18
1:ct:103:ARG:NH1	2:pu:60:ILE:O	1.75	1.18
1:cy:99:LEU:HA	2:pi:197:LYS:HD2	1.20	1.18
1:cy:103:ARG:HG3	2:nR:61:GLY:O	1.39	1.18
1:ed:100:LYS:H	2:nA:197:LYS:CE	1.52	1.18
1:es:102:GLU:HG3	1:nV:99:LEU:CG	1.71	1.18
2:fl:60:ILE:O	1:gJ:103:ARG:NH1	1.75	1.18
2:fl:197:LYS:CE	1:nw:100:LYS:H	1.52	1.18
1:fY:102:GLU:HG3	1:mp:99:LEU:CG	1.71	1.18
2:ge:61:GLY:O	1:mt:103:ARG:HG3	1.39	1.18
1:gh:103:ARG:NH1	2:ih:60:ILE:O	1.75	1.18
1:hb:100:LYS:H	2:IG:197:LYS:CE	1.52	1.18
1:jH:60:ARG:HH21	1:ok:99:LEU:CD2	1.54	1.18
2:ke:61:GLY:O	1:pT:103:ARG:HG3	1.39	1.18
1:mE:60:ARG:HH21	1:ng:99:LEU:CD2	1.54	1.18
1:nI:99:LEU:CD2	1:pa:60:ARG:HH21	1.55	1.18
1:ol:99:LEU:HA	1:ol:102:GLU:OE1	1.33	1.18
1:aE:100:LYS:H	2:kb:197:LYS:CE	1.52	1.18
2:aL:61:GLY:O	1:mV:103:ARG:HG3	1.39	1.18
1:aP:99:LEU:CG	1:pr:102:GLU:HG3	1.71	1.18
2:aW:60:ILE:O	1:iP:103:ARG:NH1	1.75	1.18
1:bF:99:LEU:CG	1:lR:102:GLU:HG3	1.71	1.18
1:bT:60:ARG:HH21	1:eR:99:LEU:CD2	1.54	1.18
1:cv:99:LEU:CD2	1:dN:60:ARG:HH21	1.54	1.18
2:du:61:GLY:O	1:km:103:ARG:HG3	1.39	1.18
1:eG:102:GLU:HG3	1:gK:99:LEU:CG	1.71	1.18
1:fH:99:LEU:CD2	1:gZ:60:ARG:HH21	1.54	1.18
1:fY:103:ARG:HG3	2:mz:61:GLY:O	1.39	1.18
2:hx:189:LYS:HE3	5:qx:51:GLU:OE2	1.39	1.18
1:ia:99:LEU:CG	1:nx:102:GLU:HG3	1.71	1.18
1:is:103:ARG:HG3	2:ot:61:GLY:O	1.39	1.18
1:iD:60:ARG:HH21	1:po:99:LEU:CD2	1.54	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:js:99:LEU:CG	1:lD:102:GLU:HG3	1.71	1.18
1:jU:99:LEU:CG	1:pT:102:GLU:HG3	1.71	1.18
1:jV:60:ARG:HH21	1:mS:99:LEU:CD2	1.54	1.18
1:la:100:LYS:H	2:mK:197:LYS:CE	1.52	1.18
2:lG:60:ILE:O	1:ne:103:ARG:NH1	1.75	1.18
3:qh:84:TYR:HE1	6:qI:20:GLU:CD	1.46	1.18
1:be:60:ARG:NE	1:kj:99:LEU:HD13	1.42	1.18
1:bs:60:ARG:HH21	1:bT:99:LEU:CD2	1.54	1.18
1:ck:99:LEU:HA	2:ix:197:LYS:HD2	1.21	1.18
1:cX:60:ARG:HH21	1:dz:99:LEU:CD2	1.54	1.18
1:ep:60:ARG:NE	1:pa:99:LEU:HD13	1.42	1.18
2:eM:61:GLY:O	1:gO:103:ARG:HG3	1.39	1.18
2:gp:60:ILE:O	1:hZ:103:ARG:NH1	1.75	1.18
2:hx:188:MET:CE	5:qx:54:GLN:HE22	1.56	1.18
2:iy:61:GLY:O	1:on:103:ARG:HG3	1.39	1.18
1:lm:60:ARG:HH21	1:pQ:99:LEU:CD2	1.54	1.18
1:mc:99:LEU:CD2	1:nu:60:ARG:HH21	1.55	1.18
2:oq:60:ILE:O	1:qc:103:ARG:NH1	1.75	1.18
6:qG:109:SER:O	6:qI:50:LEU:HD23	1.43	1.18
1:bf:99:LEU:HA	1:ki:102:GLU:OE1	1.33	1.18
1:da:99:LEU:HA	2:eL:197:LYS:HD2	1.20	1.18
2:fz:60:ILE:O	1:ns:103:ARG:NH1	1.75	1.18
1:fU:99:LEU:CG	1:mt:102:GLU:HG3	1.71	1.18
1:gX:103:ARG:NH1	2:lU:60:ILE:O	1.75	1.18
1:hc:102:GLU:HG3	1:ox:99:LEU:CG	1.71	1.18
1:jt:99:LEU:CD2	1:mS:60:ARG:HH21	1.54	1.18
1:jK:99:LEU:HA	2:pK:197:LYS:HD2	1.21	1.18
1:lA:60:ARG:NE	1:oy:99:LEU:HD13	1.42	1.18
6:qy:109:SER:O	6:qA:50:LEU:HD23	1.43	1.18
1:aC:99:LEU:CD2	1:kK:60:ARG:HH21	1.54	1.17
2:cn:60:ILE:O	1:iB:103:ARG:NH1	1.75	1.17
1:cv:60:ARG:HH21	1:pC:99:LEU:CD2	1.55	1.17
2:cB:60:ILE:O	1:pm:103:ARG:NH1	1.75	1.17
1:eb:99:LEU:CD2	1:ft:60:ARG:HH21	1.54	1.17
1:eG:103:ARG:HG3	2:gU:61:GLY:O	1.39	1.17
2:fa:61:GLY:O	1:iG:103:ARG:HG3	1.39	1.17
2:fB:197:LYS:HD2	1:mf:99:LEU:HA	1.21	1.17
1:hD:102:GLU:HG3	1:kJ:99:LEU:CG	1.71	1.17
1:hD:103:ARG:HG3	2:kT:61:GLY:O	1.39	1.17
1:js:102:GLU:OE1	1:mT:99:LEU:HA	1.34	1.17
1:kI:103:ARG:NH1	2:kQ:60:ILE:O	1.75	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qe:64:GLY:O	4:ql:220:SER:O	1.62	1.17
5:qp:35:HIS:CE1	5:qL:53:GLU:OE2	1.97	1.17
5:qz:229:ILE:HD11	5:qB:232:LEU:HD11	1.22	1.17
5:qz:252:LEU:HD22	6:qC:126:GLN:HB3	1.18	1.17
5:qD:53:GLU:OE2	5:qF:35:HIS:CE1	1.97	1.17
1:an:103:ARG:NH1	2:oS:60:ILE:O	1.75	1.17
1:aC:60:ARG:NE	1:hn:99:LEU:HD13	1.42	1.17
2:aI:60:ILE:O	1:kh:103:ARG:NH1	1.75	1.17
1:be:99:LEU:CD2	1:iR:60:ARG:HH21	1.55	1.17
1:bE:103:ARG:NH1	2:hT:60:ILE:O	1.75	1.17
2:eh:197:LYS:CE	1:er:100:LYS:H	1.52	1.17
2:fz:197:LYS:HE2	1:me:100:LYS:N	1.02	1.17
1:iR:99:LEU:HD13	1:kj:60:ARG:NE	1.42	1.17
5:qr:53:GLU:OE2	5:qt:35:HIS:CE1	1.97	1.17
5:qv:53:GLU:OE2	5:qx:35:HIS:CE1	1.97	1.17
6:qw:109:SER:O	6:qy:50:LEU:HD23	1.43	1.17
5:qB:229:ILE:HD11	5:qD:232:LEU:HD11	1.22	1.17
1:aa:99:LEU:CG	1:fw:102:GLU:HG3	1.71	1.17
1:ae:103:ARG:HG3	2:fC:61:GLY:O	1.39	1.17
1:aQ:60:ARG:NE	1:jf:99:LEU:HD13	1.42	1.17
1:cJ:99:LEU:HD13	1:po:60:ARG:NE	1.42	1.17
1:ff:60:ARG:HH21	1:ib:99:LEU:CD2	1.54	1.17
1:hl:103:ARG:NH1	2:kC:60:ILE:O	1.75	1.17
1:ir:100:LYS:H	2:jN:197:LYS:CE	1.52	1.17
2:kQ:197:LYS:CE	1:mU:100:LYS:H	1.52	1.17
3:qh:65:GLY:N	4:qj:10:GLN:NE2	1.90	1.17
5:qp:252:LEU:HD22	6:qs:126:GLN:HB3	1.18	1.17
1:bG:99:LEU:HD13	1:gL:60:ARG:NE	1.42	1.17
2:cq:61:GLY:O	1:lp:103:ARG:HG3	1.39	1.17
2:dT:60:ILE:O	1:oY:103:ARG:NH1	1.75	1.17
1:fL:99:LEU:CD2	1:ma:102:GLU:CG	2.19	1.17
1:hb:100:LYS:N	2:lG:197:LYS:HE2	1.02	1.17
1:jr:103:ARG:NH1	2:ls:60:ILE:O	1.75	1.17
2:mN:61:GLY:O	1:oP:103:ARG:HG3	1.39	1.17
5:qp:53:GLU:OE2	5:qr:35:HIS:CE1	1.97	1.17
5:qB:53:GLU:OE2	5:qD:35:HIS:CE1	1.97	1.17
5:qH:53:GLU:OE2	5:qJ:35:HIS:CE1	1.97	1.17
6:qI:109:SER:O	6:qK:50:LEU:HD23	1.43	1.17
2:aI:197:LYS:CE	1:iT:100:LYS:H	1.52	1.17
1:aO:100:LYS:HG2	1:iV:100:LYS:NZ	1.60	1.17
2:bm:197:LYS:HD2	1:do:99:LEU:HA	1.21	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bA:197:LYS:HD2	1:hQ:99:LEU:HA	1.21	1.17
1:ck:103:ARG:HG3	2:lv:61:GLY:O	1.39	1.17
1:da:102:GLU:HG3	1:fe:99:LEU:CG	1.71	1.17
1:lc:99:LEU:CD2	1:mQ:102:GLU:CG	2.19	1.17
2:mw:197:LYS:CE	1:oA:100:LYS:H	1.52	1.17
5:qp:400:TYR:CZ	5:qL:392:LEU:CD1	2.28	1.17
5:qt:229:ILE:HD11	5:qv:232:LEU:HD11	1.22	1.17
6:qu:109:SER:O	6:qw:50:LEU:HD23	1.43	1.17
5:qH:229:ILE:HD11	5:qJ:232:LEU:HD11	1.22	1.17
1:aU:99:LEU:CD2	1:iP:102:GLU:CG	2.19	1.16
1:bc:102:GLU:CG	1:bi:99:LEU:CD2	2.19	1.16
2:bQ:108:ARG:CA	5:qp:176:ASN:O	1.93	1.16
2:dF:197:LYS:HE2	1:pc:100:LYS:N	1.02	1.16
1:ep:60:ARG:HH21	1:pa:99:LEU:CD2	1.55	1.16
1:eB:103:ARG:NH1	2:gD:60:ILE:O	1.75	1.16
1:gn:99:LEU:CD2	1:hZ:102:GLU:CG	2.19	1.16
1:gP:99:LEU:CD2	1:in:102:GLU:CG	2.19	1.16
1:jt:60:ARG:NE	1:jV:99:LEU:HD13	1.42	1.16
2:ko:104:GLN:NE2	5:qH:27:GLY:HA2	1.59	1.16
3:qe:68:ALA:N	4:qm:8:TYR:HE2	1.41	1.16
3:qh:65:GLY:C	4:qj:10:GLN:HE21	1.50	1.16
5:qr:392:LEU:CD1	5:qt:400:TYR:CZ	2.28	1.16
5:qx:229:ILE:HD11	5:qz:232:LEU:HD11	1.22	1.16
5:qz:53:GLU:OE2	5:qB:35:HIS:CE1	1.97	1.16
5:qF:53:GLU:OE2	5:qH:35:HIS:CE1	1.97	1.16
5:qF:229:ILE:HD11	5:qH:232:LEU:HD11	1.22	1.16
5:qF:241:PRO:CD	5:qH:268:GLU:OE2	1.93	1.16
5:qH:392:LEU:CD1	5:qJ:400:TYR:CZ	2.28	1.16
5:qJ:252:LEU:HD22	6:qM:126:GLN:HB3	1.18	1.16
5:qJ:392:LEU:CD1	5:qL:400:TYR:CZ	2.28	1.16
2:aK:197:LYS:HD2	1:iU:99:LEU:HA	1.21	1.16
1:bw:100:LYS:NZ	1:dj:100:LYS:HG2	1.60	1.16
1:ct:100:LYS:HG2	1:ps:100:LYS:NZ	1.60	1.16
1:ef:100:LYS:NZ	1:nG:100:LYS:HG2	1.60	1.16
2:fz:197:LYS:CE	1:me:100:LYS:H	1.52	1.16
1:fF:102:GLU:CG	1:mg:99:LEU:CD2	2.19	1.16
2:gd:197:LYS:HD2	1:ie:99:LEU:HA	1.21	1.16
1:hq:99:LEU:HA	2:kq:197:LYS:HD2	1.20	1.16
1:it:100:LYS:NZ	1:jT:100:LYS:HG2	1.60	1.16
1:jd:102:GLU:CG	1:jj:99:LEU:CD2	2.19	1.16
1:jZ:99:LEU:CD2	1:ly:102:GLU:CG	2.19	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kt:107:GLY:O	5:qD:178:PRO:CD	1.92	1.16
1:nk:100:LYS:NZ	1:oK:100:LYS:HG2	1.60	1.16
3:qg:68:ALA:N	4:qk:8:TYR:HE2	1.42	1.16
5:qp:232:LEU:HD11	5:qL:229:ILE:HD11	1.22	1.16
5:qJ:229:ILE:HD11	5:qL:232:LEU:HD11	1.22	1.16
6:qK:109:SER:O	6:qM:50:LEU:HD23	1.43	1.16
1:af:100:LYS:NZ	1:oi:100:LYS:HG2	1.60	1.16
1:aO:102:GLU:OE2	1:iV:99:LEU:CG	1.94	1.16
1:bq:100:LYS:HG2	1:dp:100:LYS:NZ	1.60	1.16
1:bq:103:ARG:NH1	2:dr:60:ILE:O	1.75	1.16
2:bQ:108:ARG:HB3	5:qp:176:ASN:O	1.44	1.16
2:cb:197:LYS:HD2	1:iG:99:LEU:HA	1.21	1.16
1:cz:99:LEU:CG	1:pm:102:GLU:OE2	1.94	1.16
1:cz:100:LYS:NZ	1:pm:100:LYS:HG2	1.60	1.16
1:cH:102:GLU:OE2	1:cN:99:LEU:CG	1.94	1.16
2:cR:197:LYS:HD2	1:eU:99:LEU:HA	1.21	1.16
1:en:100:LYS:HG2	1:et:100:LYS:NZ	1.60	1.16
2:gb:197:LYS:CE	1:id:100:LYS:H	1.52	1.16
1:hr:99:LEU:CG	1:ku:102:GLU:OE2	1.94	1.16
1:hB:99:LEU:HA	1:lN:102:GLU:OE1	1.33	1.16
2:hF:104:GLN:CD	5:qx:176:ASN:OD1	1.87	1.16
1:it:99:LEU:CG	1:jT:102:GLU:OE2	1.94	1.16
1:kI:100:LYS:HG2	1:kO:100:LYS:NZ	1.60	1.16
2:mk:197:LYS:HD2	1:mt:99:LEU:HA	1.21	1.16
1:mC:102:GLU:OE2	1:oC:99:LEU:CG	1.94	1.16
3:qh:65:GLY:HA2	4:qo:220:SER:H	1.11	1.16
5:qt:53:GLU:OE2	5:qv:35:HIS:CE1	1.97	1.16
5:qt:241:PRO:CD	5:qv:268:GLU:OE2	1.93	1.16
5:qv:229:ILE:HD11	5:qx:232:LEU:HD11	1.22	1.16
5:qx:53:GLU:OE2	5:qz:35:HIS:CE1	1.97	1.16
5:qD:241:PRO:CD	5:qF:268:GLU:OE2	1.93	1.16
5:qF:392:LEU:CD1	5:qH:400:TYR:CZ	2.28	1.16
5:qH:241:PRO:CD	5:qJ:268:GLU:OE2	1.93	1.16
5:qJ:53:GLU:OE2	5:qL:35:HIS:CE1	1.97	1.16
2:az:104:GLN:OE1	5:qJ:31:GLU:HG2	1.43	1.16
1:aA:102:GLU:OE2	1:kn:99:LEU:CG	1.94	1.16
1:bt:99:LEU:HA	1:bS:102:GLU:OE1	1.34	1.16
1:cu:102:GLU:OE1	1:dO:99:LEU:HA	1.33	1.16
1:dZ:103:ARG:NH1	2:nO:60:ILE:O	1.75	1.16
2:ej:197:LYS:HD2	1:es:99:LEU:HA	1.20	1.16
1:eG:99:LEU:HA	2:gr:197:LYS:HD2	1.21	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eH:99:LEU:CG	1:gv:102:GLU:OE2	1.94	1.16
1:gn:100:LYS:NZ	1:hZ:100:LYS:HG2	1.61	1.16
1:jt:99:LEU:HD13	1:mS:60:ARG:NE	1.42	1.16
1:jw:99:LEU:HA	2:lg:197:LYS:HD2	1.20	1.16
1:jX:100:LYS:H	2:ls:197:LYS:CE	1.52	1.16
1:mo:100:LYS:HG2	1:mu:100:LYS:NZ	1.60	1.16
1:nU:102:GLU:OE2	1:oa:99:LEU:CG	1.94	1.16
3:qe:61:ASP:CA	4:qm:33:SER:OG	1.90	1.16
5:qp:392:LEU:CD1	5:qr:400:TYR:CZ	2.28	1.16
1:bc:102:GLU:OE2	1:bi:99:LEU:CG	1.94	1.16
1:bI:102:GLU:HG3	2:hF:62:GLN:CD	1.71	1.16
1:bK:100:LYS:NZ	1:hL:100:LYS:HG2	1.60	1.16
1:bX:99:LEU:CG	1:dx:102:GLU:OE2	1.94	1.16
1:cZ:102:GLU:HG3	2:eI:62:GLN:CD	1.71	1.16
1:eH:99:LEU:CD2	1:gv:102:GLU:CG	2.19	1.16
1:fr:102:GLU:OE2	1:ny:99:LEU:CG	1.94	1.16
1:gX:100:LYS:HG2	1:lS:100:LYS:NZ	1.60	1.16
1:hd:99:LEU:CG	1:lM:102:GLU:OE2	1.94	1.16
1:hl:100:LYS:HG2	1:kA:100:LYS:NZ	1.60	1.16
1:jF:102:GLU:CG	1:pU:99:LEU:CD2	2.19	1.16
1:jF:102:GLU:OE2	1:pU:99:LEU:CG	1.94	1.16
1:jZ:99:LEU:CG	1:ly:102:GLU:OE2	1.94	1.16
1:lc:99:LEU:CG	1:mQ:102:GLU:OE2	1.94	1.16
1:lC:102:GLU:HG3	2:mX:62:GLN:CD	1.71	1.16
1:nH:102:GLU:OE1	1:pb:99:LEU:HA	1.34	1.16
1:nU:100:LYS:HG2	1:oa:100:LYS:NZ	1.60	1.16
2:pt:62:GLN:CD	1:pE:102:GLU:HG3	1.71	1.16
5:qv:252:LEU:HD22	6:qy:126:GLN:HB3	1.18	1.16
5:qx:241:PRO:CD	5:qz:268:GLU:OE2	1.93	1.16
2:bx:62:GLN:CD	1:hP:102:GLU:HG3	1.71	1.15
1:dD:100:LYS:NZ	1:fd:100:LYS:HG2	1.60	1.15
1:eb:99:LEU:HD13	1:ft:60:ARG:NE	1.42	1.15
1:fj:99:LEU:CG	1:gJ:102:GLU:OE2	1.94	1.15
1:fv:100:LYS:H	2:nm:197:LYS:CE	1.52	1.15
1:gh:100:LYS:HG2	1:if:100:LYS:NZ	1.61	1.15
1:hy:102:GLU:OE2	1:hE:99:LEU:CG	1.94	1.15
1:jr:102:GLU:OE2	1:lq:99:LEU:CG	1.94	1.15
1:jv:102:GLU:HG3	2:ld:62:GLN:CD	1.71	1.15
2:jy:62:GLN:CD	1:pS:102:GLU:HG3	1.71	1.15
1:oo:99:LEU:CG	1:qc:102:GLU:OE2	1.94	1.15
1:oo:100:LYS:NZ	1:qc:100:LYS:HG2	1.61	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qi:67:ARG:N	4:qo:194:LEU:CD1	2.08	1.15
6:qC:109:SER:O	6:qE:50:LEU:HD23	1.43	1.15
1:af:99:LEU:CD2	1:oi:102:GLU:CG	2.19	1.15
1:af:99:LEU:CG	1:oi:102:GLU:OE2	1.94	1.15
2:ag:62:GLN:CD	1:oO:102:GLU:HG3	1.71	1.15
1:aT:99:LEU:HA	2:iL:197:LYS:HD2	1.21	1.15
2:by:197:LYS:CE	1:hP:100:LYS:H	1.52	1.15
1:cz:99:LEU:CD2	1:pm:102:GLU:CG	2.19	1.15
1:cV:102:GLU:OE2	1:eV:99:LEU:CG	1.94	1.15
2:dE:62:GLN:CD	1:pc:102:GLU:HG3	1.71	1.15
1:dL:100:LYS:HG2	1:pe:100:LYS:NZ	1.60	1.15
2:dV:197:LYS:HD2	1:nL:99:LEU:HA	1.21	1.15
1:ed:102:GLU:HG3	2:nz:62:GLN:CD	1.71	1.15
1:fw:99:LEU:HA	2:no:197:LYS:HD2	1.20	1.15
2:fy:62:GLN:CD	1:me:102:GLU:HG3	1.71	1.15
1:gn:99:LEU:CG	1:hZ:102:GLU:OE2	1.94	1.15
1:jX:100:LYS:N	2:ls:197:LYS:HE2	1.02	1.15
2:mv:62:GLN:CD	1:oA:102:GLU:HG3	1.71	1.15
1:ni:102:GLU:HG3	2:oD:62:GLN:CD	1.72	1.15
3:qf:60:ALA:O	4:ql:33:SER:OG	1.63	1.15
6:qq:50:LEU:HD23	6:qM:109:SER:O	1.43	1.15
6:qq:109:SER:O	6:qs:50:LEU:HD23	1.43	1.15
5:qr:241:PRO:CD	5:qt:268:GLU:OE2	1.93	1.15
6:qs:109:SER:O	6:qu:50:LEU:HD23	1.43	1.15
5:qv:392:LEU:CD1	5:qx:400:TYR:CZ	2.28	1.15
5:qz:392:LEU:CD1	5:qB:400:TYR:CZ	2.28	1.15
5:qD:392:LEU:CD1	5:qF:400:TYR:CZ	2.28	1.15
2:cO:62:GLN:CD	1:eT:102:GLU:HG3	1.71	1.15
2:dT:197:LYS:HE2	1:nK:100:LYS:N	1.02	1.15
2:eg:62:GLN:CD	1:er:102:GLU:HG3	1.71	1.15
1:fh:102:GLU:HG3	2:gC:62:GLN:CD	1.71	1.15
1:fL:100:LYS:NZ	1:ma:100:LYS:HG2	1.61	1.15
2:gT:197:LYS:HD2	1:lR:99:LEU:HA	1.21	1.15
1:hl:102:GLU:OE2	1:kA:99:LEU:CG	1.94	1.15
2:hx:92:GLU:O	5:qz:44:LYS:NZ	1.78	1.15
2:hK:183:ILE:N	5:qt:177:SER:HA	1.59	1.15
2:iW:62:GLN:CD	1:jh:102:GLU:HG3	1.71	1.15
1:jr:100:LYS:HG2	1:lq:100:LYS:HZ3	1.00	1.15
1:jx:100:LYS:NZ	1:lk:100:LYS:HG2	1.60	1.15
1:jL:99:LEU:CG	1:pO:102:GLU:OE2	1.94	1.15
1:jL:100:LYS:NZ	1:pO:100:LYS:HG2	1.60	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ko:184:TYR:CD2	5:qH:30:LYS:HB3	1.82	1.15
1:nk:99:LEU:CD2	1:oK:102:GLU:CG	2.19	1.15
3:qi:65:GLY:C	4:qo:10:GLN:HE21	1.54	1.15
5:qB:241:PRO:CD	5:qD:268:GLU:OE2	1.93	1.15
5:qB:392:LEU:CD1	5:qD:400:TYR:CZ	2.28	1.15
5:qD:229:ILE:HD11	5:qF:232:LEU:HD11	1.22	1.15
1:at:99:LEU:CG	1:bR:102:GLU:OE2	1.94	1.15
1:aG:100:LYS:NZ	1:kh:100:LYS:HG2	1.61	1.15
1:bu:102:GLU:HG3	2:dc:62:GLN:CD	1.71	1.15
1:bw:99:LEU:CG	1:dj:102:GLU:OE2	1.94	1.15
1:bW:99:LEU:HA	2:dt:197:LYS:HD2	1.21	1.15
1:cf:100:LYS:HG2	1:iH:100:LYS:NZ	1.60	1.15
1:cl:100:LYS:NZ	1:iB:100:LYS:HG2	1.60	1.15
1:dZ:102:GLU:OE2	1:nM:99:LEU:CG	1.94	1.15
2:eu:62:GLN:CD	1:gZ:102:GLU:HG3	1.71	1.15
1:eB:102:GLU:CG	1:gB:99:LEU:CD2	2.19	1.15
1:fJ:102:GLU:HG3	2:lT:62:GLN:CD	1.71	1.15
1:fK:99:LEU:HA	2:lW:197:LYS:HD2	1.21	1.15
1:fL:99:LEU:CG	1:ma:102:GLU:OE2	1.94	1.15
1:fT:100:LYS:HG2	1:fZ:100:LYS:NZ	1.60	1.15
2:ga:62:GLN:CD	1:id:102:GLU:HG3	1.72	1.15
1:gP:100:LYS:NZ	1:in:100:LYS:HG2	1.60	1.15
1:hd:99:LEU:CD2	1:lM:102:GLU:CG	2.19	1.15
1:hy:100:LYS:HG2	1:hE:100:LYS:NZ	1.60	1.15
1:jd:102:GLU:OE2	1:jj:99:LEU:CG	1.94	1.15
1:kW:102:GLU:CG	1:mW:99:LEU:CD2	2.19	1.15
1:lc:100:LYS:NZ	1:mQ:100:LYS:HG2	1.60	1.15
1:pA:100:LYS:HG2	1:pG:100:LYS:NZ	1.61	1.15
1:pA:102:GLU:OE2	1:pG:99:LEU:CG	1.94	1.15
3:qg:66:GLN:N	4:qk:10:GLN:CG	2.08	1.15
5:qJ:241:PRO:CD	5:qL:268:GLU:OE2	1.93	1.15
1:ac:99:LEU:HA	1:mD:102:GLU:OE1	1.33	1.15
1:an:102:GLU:OE2	1:oQ:99:LEU:CG	1.94	1.15
1:aA:100:LYS:HG2	1:kn:100:LYS:NZ	1.61	1.15
1:aU:99:LEU:CG	1:iP:102:GLU:OE2	1.94	1.15
1:bq:102:GLU:OE2	1:dp:99:LEU:CG	1.94	1.15
1:bE:102:GLU:OE2	1:hR:99:LEU:CG	1.94	1.15
1:dL:102:GLU:OE2	1:pe:99:LEU:CG	1.94	1.15
1:eB:102:GLU:OE2	1:gB:99:LEU:CG	1.94	1.15
1:fx:100:LYS:NZ	1:ns:100:LYS:HG2	1.61	1.15
1:fT:102:GLU:OE2	1:fZ:99:LEU:CG	1.94	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jF:100:LYS:HG2	1:pU:100:LYS:NZ	1.60	1.15
1:kW:100:LYS:HG2	1:mW:100:LYS:NZ	1.60	1.15
1:lD:99:LEU:HA	2:na:197:LYS:HD2	1.20	1.15
1:mI:99:LEU:CG	1:ow:102:GLU:OE2	1.94	1.15
1:mI:100:LYS:NZ	1:ow:100:LYS:HG2	1.61	1.15
2:nN:62:GLN:CD	1:nY:102:GLU:HG3	1.71	1.15
1:pA:102:GLU:CG	1:pG:99:LEU:CD2	2.19	1.15
1:ad:102:GLU:HG3	2:ob:62:GLN:CD	1.71	1.14
1:aU:100:LYS:NZ	1:iP:100:LYS:HG2	1.60	1.14
1:cx:102:GLU:HG3	2:pf:62:GLN:CD	1.71	1.14
1:dR:99:LEU:CG	1:oY:102:GLU:OE2	1.94	1.14
1:dR:100:LYS:NZ	1:oY:100:LYS:HG2	1.60	1.14
1:gN:102:GLU:HG3	2:ig:62:GLN:CD	1.71	1.14
1:gP:99:LEU:CG	1:in:102:GLU:OE2	1.94	1.14
2:jk:62:GLN:CD	1:lo:102:GLU:HG3	1.71	1.14
1:jx:99:LEU:CG	1:lk:102:GLU:OE2	1.94	1.14
1:jZ:100:LYS:NZ	1:ly:100:LYS:HG2	1.61	1.14
1:lE:99:LEU:CG	1:ne:102:GLU:OE2	1.94	1.14
1:mo:102:GLU:OE2	1:mu:99:LEU:CG	1.94	1.14
2:mw:197:LYS:HE2	1:oA:100:LYS:N	1.02	1.14
1:mC:100:LYS:HG2	1:oC:100:LYS:NZ	1.60	1.14
5:qp:241:PRO:CD	5:qr:268:GLU:OE2	1.93	1.14
5:qt:392:LEU:CD1	5:qv:400:TYR:CZ	2.28	1.14
2:aV:62:GLN:CD	1:bg:102:GLU:HG3	1.71	1.14
1:bE:102:GLU:CG	1:hR:99:LEU:CD2	2.19	1.14
2:cm:62:GLN:CD	1:pq:102:GLU:HG3	1.71	1.14
1:en:102:GLU:OE2	1:et:99:LEU:CG	1.94	1.14
1:fv:102:GLU:HG3	2:nl:62:GLN:CD	1.71	1.14
1:gh:102:GLU:OE2	1:if:99:LEU:CG	1.94	1.14
2:kt:111:GLY:H	5:qD:178:PRO:CD	1.58	1.14
2:nQ:197:LYS:HD2	1:nZ:99:LEU:HA	1.21	1.14
3:qd:68:ALA:N	4:qn:8:TYR:HE2	1.42	1.14
3:qi:84:TYR:CE1	6:qM:20:GLU:HG2	1.81	1.14
5:qv:241:PRO:CD	5:qx:268:GLU:OE2	1.93	1.14
5:qx:392:LEU:CD1	5:qz:400:TYR:CZ	2.28	1.14
2:aH:62:GLN:CD	1:iT:102:GLU:HG3	1.71	1.14
1:bE:100:LYS:HG2	1:hR:100:LYS:NZ	1.60	1.14
1:bF:102:GLU:OE1	1:gM:99:LEU:HA	1.33	1.14
1:bV:102:GLU:HG3	2:dq:62:GLN:CD	1.71	1.14
2:bY:62:GLN:CD	1:iF:102:GLU:HG3	1.71	1.14
1:cf:102:GLU:OE2	1:iH:99:LEU:CG	1.94	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cI:99:LEU:CG	1:iB:102:GLU:OE2	1.94	1.14
2:cA:62:GLN:CD	1:cL:102:GLU:HG3	1.71	1.14
1:cH:100:LYS:HG2	1:cN:100:LYS:NZ	1.61	1.14
1:eH:100:LYS:NZ	1:gv:100:LYS:HG2	1.60	1.14
2:fk:62:GLN:CD	1:nw:102:GLU:HG3	1.71	1.14
1:jd:100:LYS:HG2	1:jj:100:LYS:NZ	1.61	1.14
2:kP:62:GLN:CD	1:mU:102:GLU:HG3	1.71	1.14
2:mh:62:GLN:CD	1:ms:102:GLU:HG3	1.71	1.14
1:ni:100:LYS:N	2:oE:197:LYS:HE2	1.02	1.14
1:om:102:GLU:HG3	2:pV:62:GLN:CD	1.71	1.14
5:qt:252:LEU:HD22	6:qw:126:GLN:HB3	1.18	1.14
6:qE:112:LEU:HD23	6:qG:58:LEU:CG	1.75	1.14
6:qK:112:LEU:CG	6:qM:58:LEU:CD1	2.25	1.14
6:qK:112:LEU:HD23	6:qM:58:LEU:CG	1.75	1.14
1:db:100:LYS:NZ	1:eP:100:LYS:HG2	1.61	1.14
1:dB:100:LYS:H	2:eX:197:LYS:CE	1.52	1.14
1:dD:99:LEU:CG	1:fd:102:GLU:OE2	1.94	1.14
2:dH:197:LYS:HD2	1:pd:99:LEU:HA	1.20	1.14
1:fj:100:LYS:NZ	1:gJ:100:LYS:HG2	1.60	1.14
1:hb:102:GLU:HG3	2:lF:62:GLN:CD	1.71	1.14
1:jr:100:LYS:HG2	1:lq:100:LYS:NZ	1.60	1.14
2:kB:62:GLN:CD	1:kM:102:GLU:HG3	1.71	1.14
1:lE:100:LYS:NZ	1:ne:100:LYS:HG2	1.60	1.14
2:pw:197:LYS:HD2	1:pF:99:LEU:HA	1.21	1.14
6:qy:112:LEU:HD21	6:qA:58:LEU:CG	1.75	1.14
1:ae:99:LEU:HA	2:oe:197:LYS:HD2	1.21	1.14
1:an:100:LYS:HG2	1:oQ:100:LYS:NZ	1.60	1.14
1:at:100:LYS:NZ	1:bR:100:LYS:HG2	1.60	1.14
2:au:62:GLN:CD	1:kl:102:GLU:HG3	1.71	1.14
1:aG:99:LEU:CG	1:kh:102:GLU:OE2	1.94	1.14
1:bc:100:LYS:HG2	1:bi:100:LYS:NZ	1.60	1.14
1:bs:60:ARG:NH2	1:bT:99:LEU:CD2	2.11	1.14
1:bK:99:LEU:CD2	1:hL:102:GLU:CG	2.19	1.14
1:ct:102:GLU:OE2	1:ps:99:LEU:CG	1.94	1.14
1:ff:60:ARG:NH2	1:ib:99:LEU:CD2	2.11	1.14
1:gX:102:GLU:OE2	1:lS:99:LEU:CG	1.94	1.14
1:hd:100:LYS:NZ	1:lM:100:LYS:HG2	1.60	1.14
1:hp:102:GLU:HG3	2:ko:62:GLN:CD	1.71	1.14
1:ir:102:GLU:HG3	2:jM:62:GLN:CD	1.71	1.14
2:jn:197:LYS:HD2	1:lp:99:LEU:HA	1.20	1.14
1:jH:60:ARG:NH2	1:ok:99:LEU:CD2	2.11	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:kI:102:GLU:OE2	1:kO:99:LEU:CG	1.94	1.14
1:mC:102:GLU:CD	1:oC:99:LEU:CG	2.22	1.14
1:mE:60:ARG:NH2	1:ng:99:LEU:CD2	2.11	1.14
1:mI:99:LEU:CD2	1:ow:102:GLU:CG	2.19	1.14
1:oo:99:LEU:CD2	1:qc:102:GLU:CG	2.19	1.14
5:qp:268:GLU:OE2	5:qL:241:PRO:CD	1.93	1.14
2:az:183:ILE:HG21	5:qH:178:PRO:HB3	1.16	1.13
1:aQ:99:LEU:CD2	1:ch:60:ARG:NH2	2.11	1.13
1:bX:100:LYS:NZ	1:dx:100:LYS:HG2	1.60	1.13
1:cj:102:GLU:HG3	2:iu:62:GLN:CD	1.71	1.13
1:eB:100:LYS:HG2	1:gB:100:LYS:NZ	1.61	1.13
1:fF:100:LYS:HG2	1:mg:100:LYS:NZ	1.60	1.13
1:fT:102:GLU:CD	1:fZ:99:LEU:CG	2.21	1.13
2:gQ:62:GLN:CD	1:lQ:102:GLU:HG3	1.71	1.13
2:he:62:GLN:CD	1:ky:102:GLU:HG3	1.71	1.13
1:jt:99:LEU:CD2	1:mS:60:ARG:NH2	2.11	1.13
1:jF:100:LYS:HG2	1:pU:100:LYS:HZ3	1.08	1.13
1:kW:102:GLU:OE2	1:mW:99:LEU:CG	1.94	1.13
1:on:99:LEU:HA	2:pY:197:LYS:HD2	1.20	1.13
3:qd:84:TYR:CE1	6:qs:20:GLU:HG2	1.78	1.13
3:qi:68:ALA:N	4:qo:8:TYR:HE2	1.45	1.13
5:qv:239:TYR:O	5:qx:268:GLU:OE1	1.67	1.13
6:qy:112:LEU:CG	6:qA:58:LEU:CD1	2.25	1.13
5:qz:241:PRO:CD	5:qB:268:GLU:OE2	1.93	1.13
2:az:103:MET:HG3	5:qJ:32:PHE:CE2	1.83	1.13
1:aA:102:GLU:CD	1:kn:99:LEU:CG	2.22	1.13
1:aE:102:GLU:HG3	2:ka:62:GLN:CD	1.71	1.13
1:aO:102:GLU:CD	1:iV:99:LEU:CG	2.21	1.13
1:bq:102:GLU:CD	1:dp:99:LEU:CG	2.22	1.13
1:bs:99:LEU:CD2	1:eR:60:ARG:NH2	2.11	1.13
1:cV:100:LYS:HG2	1:eV:100:LYS:NZ	1.60	1.13
1:dP:102:GLU:HG3	2:oR:62:GLN:CD	1.71	1.13
1:dQ:99:LEU:HA	2:oU:197:LYS:HD2	1.20	1.13
1:ef:99:LEU:CG	1:nG:102:GLU:CD	2.21	1.13
1:en:100:LYS:HG2	1:et:100:LYS:HZ3	1.00	1.13
2:ev:197:LYS:HE2	1:gZ:100:LYS:N	1.02	1.13
1:fx:99:LEU:CG	1:ns:102:GLU:OE2	1.94	1.13
2:fM:62:GLN:CD	1:fX:102:GLU:HG3	1.71	1.13
1:gh:102:GLU:CD	1:if:99:LEU:CG	2.22	1.13
1:hr:100:LYS:NZ	1:ku:100:LYS:HG2	1.60	1.13
1:hy:102:GLU:CG	1:hE:99:LEU:CD2	2.19	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:it:99:LEU:CG	1:jT:102:GLU:CD	2.22	1.13
1:jL:99:LEU:CG	1:pO:102:GLU:CD	2.22	1.13
2:kt:111:GLY:H	5:qD:178:PRO:CG	1.60	1.13
1:kw:99:LEU:HD13	1:lO:60:ARG:NE	1.42	1.13
2:kQ:197:LYS:HE2	1:mU:100:LYS:N	1.02	1.13
1:lA:60:ARG:NH2	1:oy:99:LEU:CD2	2.11	1.13
1:mG:102:GLU:HG3	2:op:62:GLN:CD	1.71	1.13
1:mH:99:LEU:HA	2:os:197:LYS:HD2	1.20	1.13
1:mI:99:LEU:CG	1:ow:102:GLU:CD	2.21	1.13
1:nk:99:LEU:CG	1:oK:102:GLU:OE2	1.94	1.13
5:qD:252:LEU:HD22	6:qG:126:GLN:HB3	1.18	1.13
1:ar:102:GLU:HG3	2:bL:62:GLN:CD	1.71	1.13
1:aC:99:LEU:HD13	1:kK:60:ARG:NE	1.42	1.13
1:aF:99:LEU:HA	2:kd:197:LYS:HD2	1.21	1.13
1:aS:102:GLU:HG3	2:iI:62:GLN:CD	1.71	1.13
1:bK:99:LEU:CG	1:hL:102:GLU:OE2	1.94	1.13
1:cJ:60:ARG:NH2	1:iD:99:LEU:CD2	2.11	1.13
1:db:99:LEU:CG	1:eP:102:GLU:CD	2.21	1.13
1:dB:102:GLU:HG3	2:eW:62:GLN:CD	1.71	1.13
1:dZ:100:LYS:HG2	1:nM:100:LYS:HZ3	1.01	1.13
1:ef:99:LEU:CG	1:nG:102:GLU:OE2	1.94	1.13
1:fF:102:GLU:OE2	1:mg:99:LEU:CG	1.94	1.13
2:hs:62:GLN:CD	1:hC:102:GLU:HG3	1.71	1.13
1:jJ:100:LYS:N	2:pI:197:LYS:HE2	1.02	1.13
1:jJ:102:GLU:HG3	2:pH:62:GLN:CD	1.71	1.13
1:lc:99:LEU:CG	1:mQ:102:GLU:CD	2.21	1.13
1:pA:102:GLU:CD	1:pG:99:LEU:CG	2.22	1.13
3:qe:66:GLN:C	4:qm:194:LEU:HD12	1.72	1.13
6:qq:112:LEU:HD21	6:qs:58:LEU:CG	1.75	1.13
5:qr:239:TYR:O	5:qt:268:GLU:OE1	1.67	1.13
6:qC:112:LEU:HD23	6:qE:58:LEU:CG	1.76	1.13
1:aC:60:ARG:NH2	1:hn:99:LEU:CD2	2.11	1.13
1:aG:99:LEU:CG	1:kh:102:GLU:CD	2.22	1.13
1:bw:99:LEU:CG	1:dj:102:GLU:CD	2.21	1.13
1:cH:102:GLU:CD	1:cN:99:LEU:CG	2.22	1.13
1:db:99:LEU:CG	1:eP:102:GLU:OE2	1.94	1.13
1:fr:100:LYS:HG2	1:ny:100:LYS:NZ	1.60	1.13
1:ft:99:LEU:CD2	1:nW:60:ARG:NH2	2.11	1.13
1:gm:99:LEU:HA	2:hV:197:LYS:HD2	1.21	1.13
1:hl:102:GLU:CD	1:kA:99:LEU:CG	2.21	1.13
1:oo:99:LEU:CG	1:qc:102:GLU:CD	2.22	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qp:239:TYR:O	5:qr:268:GLU:OE1	1.67	1.13
6:qq:58:LEU:CG	6:qM:112:LEU:HD23	1.76	1.13
5:qt:239:TYR:O	5:qv:268:GLU:OE1	1.67	1.13
5:qx:239:TYR:O	5:qz:268:GLU:OE1	1.67	1.13
6:qA:112:LEU:CG	6:qC:58:LEU:CD1	2.25	1.13
1:be:60:ARG:NH2	1:kj:99:LEU:CD2	2.11	1.12
2:bj:62:GLN:CD	1:dn:102:GLU:HG3	1.71	1.13
2:bQ:97:GLY:HA3	5:qp:51:GLU:HG2	1.29	1.13
1:dZ:102:GLU:CD	1:nM:99:LEU:CG	2.22	1.13
1:ed:100:LYS:N	2:nA:197:LYS:HE2	1.02	1.13
1:aE:100:LYS:N	2:kb:197:LYS:HE2	1.02	1.12
1:dR:99:LEU:CG	1:oY:102:GLU:CD	2.21	1.12
1:eD:99:LEU:CD2	1:ib:60:ARG:NH2	2.11	1.12
1:fr:102:GLU:CD	1:ny:99:LEU:CG	2.22	1.12
2:hx:188:MET:HE1	5:qx:54:GLN:HE22	1.01	1.12
1:hA:60:ARG:NH2	1:lO:99:LEU:CD2	2.11	1.12
1:it:99:LEU:CD2	1:jT:102:GLU:CG	2.19	1.12
2:iZ:197:LYS:HD2	1:ji:99:LEU:HA	1.20	1.12
1:jX:102:GLU:HG3	2:lr:62:GLN:CD	1.71	1.13
2:ko:188:MET:HE2	5:qH:176:ASN:ND2	0.81	1.12
1:kY:60:ARG:NH2	1:lA:99:LEU:CD2	2.11	1.13
2:my:197:LYS:HD2	1:oB:99:LEU:HA	1.20	1.13
1:mC:102:GLU:CG	1:oC:99:LEU:CD2	2.19	1.13
1:jr:102:GLU:CD	1:lq:99:LEU:CG	2.21	1.12
1:kY:99:LEU:CD2	1:oy:60:ARG:NH2	2.11	1.12
1:la:102:GLU:HG3	2:mJ:62:GLN:CD	1.71	1.12
3:qd:55:GLU:CD	4:qn:223:ASN:HD22	1.54	1.12
3:qd:65:GLY:HA2	4:qm:220:SER:H	1.07	1.12
3:qh:55:GLU:HB3	4:qj:223:ASN:ND2	1.63	1.12
6:qq:58:LEU:CG	6:qM:112:LEU:HD21	1.75	1.12
6:qw:112:LEU:HD21	6:qy:58:LEU:CG	1.75	1.12
5:qz:239:TYR:O	5:qB:268:GLU:OE1	1.67	1.12
1:ap:60:ARG:NH2	1:dl:99:LEU:CD2	2.11	1.12
1:bG:99:LEU:CD2	1:gL:60:ARG:NH2	2.11	1.12
1:bH:99:LEU:HA	1:gi:102:GLU:OE1	1.33	1.12
1:bK:99:LEU:CG	1:hL:102:GLU:CD	2.21	1.12
1:ct:102:GLU:CG	1:ps:99:LEU:CD2	2.19	1.12
1:dZ:100:LYS:HG2	1:nM:100:LYS:NZ	1.61	1.12
1:eF:102:GLU:HG3	2:go:62:GLN:CD	1.71	1.12
2:gc:197:LYS:HZ1	1:md:99:LEU:HA	1.13	1.12
1:hy:102:GLU:CD	1:hE:99:LEU:CG	2.22	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hF:32:LEU:CD1	5:qv:178:PRO:N	2.11	1.12
1:jv:100:LYS:N	2:le:197:LYS:HE2	1.02	1.12
1:jF:102:GLU:CD	1:pU:99:LEU:CG	2.21	1.12
1:mo:102:GLU:CD	1:mu:99:LEU:CG	2.21	1.12
1:nI:99:LEU:CD2	1:pa:60:ARG:NH2	2.11	1.12
3:qi:65:GLY:HA2	4:qn:220:SER:H	1.04	1.12
3:qi:84:TYR:CE1	6:qM:20:GLU:CG	2.32	1.12
1:an:102:GLU:CD	1:oQ:99:LEU:CG	2.22	1.12
1:bc:102:GLU:CD	1:bi:99:LEU:CG	2.22	1.12
1:bJ:99:LEU:HA	2:hH:197:LYS:HD2	1.20	1.12
1:cz:99:LEU:CG	1:pm:102:GLU:CD	2.21	1.12
1:dD:99:LEU:CG	1:fd:102:GLU:CD	2.21	1.12
1:eH:99:LEU:CG	1:gv:102:GLU:CD	2.21	1.12
1:fi:99:LEU:HA	2:gF:197:LYS:HD2	1.21	1.12
1:fJ:100:LYS:N	2:lU:197:LYS:HE2	1.02	1.12
1:gj:60:ARG:NH2	1:gL:99:LEU:CD2	2.11	1.12
1:gl:102:GLU:HG3	2:hS:62:GLN:CD	1.71	1.12
1:gw:99:LEU:HD11	1:pd:102:GLU:CD	1.75	1.12
1:gP:99:LEU:CG	1:in:102:GLU:CD	2.22	1.12
2:hF:32:LEU:CG	5:qv:178:PRO:HG2	1.80	1.12
2:iX:197:LYS:HE2	1:jh:100:LYS:N	1.02	1.12
1:jx:99:LEU:CG	1:lk:102:GLU:CD	2.22	1.12
2:jB:197:LYS:HD2	1:pT:99:LEU:HA	1.21	1.12
1:lb:102:GLU:CD	1:nf:99:LEU:HD11	1.75	1.12
1:lE:99:LEU:CG	1:ne:102:GLU:CD	2.21	1.12
6:qw:112:LEU:CG	6:qy:58:LEU:CD1	2.25	1.12
1:aA:102:GLU:CG	1:kn:99:LEU:CD2	2.19	1.12
1:aF:102:GLU:CD	1:mR:99:LEU:HD11	1.75	1.12
2:bk:197:LYS:HE2	1:dn:100:LYS:N	1.02	1.12
1:cg:99:LEU:HD11	1:lp:102:GLU:CD	1.75	1.12
1:cV:102:GLU:CD	1:eV:99:LEU:CG	2.22	1.12
1:dL:102:GLU:CD	1:pe:99:LEU:CG	2.22	1.12
1:en:102:GLU:CD	1:et:99:LEU:CG	2.22	1.12
1:fL:99:LEU:CG	1:ma:102:GLU:CD	2.22	1.12
1:fT:102:GLU:CG	1:fZ:99:LEU:CD2	2.19	1.12
1:gn:99:LEU:CG	1:hZ:102:GLU:CD	2.22	1.12
1:hq:102:GLU:CD	1:iQ:99:LEU:HD11	1.75	1.12
1:jx:99:LEU:CD2	1:lk:102:GLU:CG	2.19	1.12
1:kI:102:GLU:CD	1:kO:99:LEU:CG	2.21	1.12
1:lm:60:ARG:NH2	1:pQ:99:LEU:CD2	2.11	1.12
6:qq:58:LEU:CD1	6:qM:112:LEU:CG	2.25	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qF:252:LEU:HD22	6:qI:126:GLN:HB3	1.18	1.12
1:as:102:GLU:CD	1:gi:99:LEU:HD11	1.75	1.12
1:bE:102:GLU:CD	1:hR:99:LEU:CG	2.22	1.12
1:bS:99:LEU:HD11	1:hQ:102:GLU:CD	1.75	1.12
1:bW:102:GLU:CD	1:hM:99:LEU:HD11	1.75	1.12
1:bX:99:LEU:CG	1:dx:102:GLU:CD	2.21	1.12
2:bZ:197:LYS:HE2	1:iF:100:LYS:N	1.02	1.12
1:dl:60:ARG:NH2	1:hN:99:LEU:CD2	2.11	1.12
1:dN:99:LEU:CD2	1:pC:60:ARG:NH2	2.11	1.12
2:dS:62:GLN:CD	1:nK:102:GLU:HG3	1.71	1.12
1:eB:102:GLU:CD	1:gB:99:LEU:CG	2.22	1.12
1:eU:102:GLU:CD	1:iC:99:LEU:HD11	1.75	1.12
1:fx:99:LEU:CG	1:ns:102:GLU:CD	2.22	1.12
1:fH:99:LEU:CD2	1:gZ:60:ARG:NH2	2.11	1.12
1:gX:102:GLU:CD	1:lS:99:LEU:CG	2.21	1.12
2:hs:184:TYR:CE1	5:qB:178:PRO:CA	2.32	1.12
1:is:102:GLU:CD	1:oj:99:LEU:HD11	1.75	1.12
1:jL:99:LEU:CD2	1:pO:102:GLU:CG	2.19	1.12
3:qf:65:GLY:N	4:ql:10:GLN:NE2	1.98	1.12
6:qq:112:LEU:HD23	6:qs:58:LEU:CG	1.75	1.12
6:qA:112:LEU:HD21	6:qC:58:LEU:CG	1.75	1.12
1:ae:102:GLU:CD	1:fs:99:LEU:HD11	1.75	1.11
1:af:99:LEU:CG	1:oi:102:GLU:CD	2.21	1.11
2:au:172:LEU:HD13	5:qJ:178:PRO:HG2	1.27	1.11
1:bJ:102:GLU:CD	1:lN:99:LEU:HD11	1.75	1.11
1:cl:99:LEU:CG	1:iB:102:GLU:CD	2.21	1.11
1:ct:102:GLU:CD	1:ps:99:LEU:CG	2.22	1.11
1:cu:99:LEU:HD11	1:nL:102:GLU:CD	1.75	1.11
1:cJ:99:LEU:CD2	1:po:60:ARG:NH2	2.11	1.11
2:cS:62:GLN:HG3	2:pM:197:LYS:HE2	1.32	1.11
2:ek:62:GLN:HG3	2:mm:197:LYS:HE2	1.32	1.11
1:eD:60:ARG:NH2	1:ff:99:LEU:CD2	2.11	1.11
2:fb:197:LYS:HE2	2:iM:62:GLN:HG3	1.32	1.11
1:fr:102:GLU:CG	1:ny:99:LEU:CD2	2.19	1.11
1:gX:102:GLU:CG	1:lS:99:LEU:CD2	2.19	1.11
2:hF:197:LYS:HE2	1:ky:100:LYS:N	1.02	1.11
2:hi:62:GLN:HG3	2:oI:197:LYS:HE2	1.32	1.11
2:hj:197:LYS:HE2	2:oH:62:GLN:HG3	1.32	1.11
1:hA:99:LEU:CD2	1:kw:60:ARG:NH2	2.11	1.11
2:ko:181:PRO:CG	5:qF:54:GLN:HB3	1.78	1.11
5:qp:268:GLU:OE1	5:qL:239:TYR:O	1.67	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qr:252:LEU:HD22	6:qu:126:GLN:HB3	1.18	1.11
6:qA:112:LEU:HD23	6:qC:58:LEU:CG	1.76	1.11
5:qB:239:TYR:O	5:qD:268:GLU:OE1	1.67	1.11
5:qH:252:LEU:HD22	6:qK:126:GLN:HB3	1.18	1.11
6:qI:112:LEU:CG	6:qK:58:LEU:CD1	2.25	1.11
1:ap:99:LEU:CD2	1:hN:60:ARG:NH2	2.11	1.11
2:aM:197:LYS:HE2	2:nb:62:GLN:HG3	1.33	1.11
1:br:99:LEU:HD11	1:dC:102:GLU:CD	1.75	1.11
2:bC:197:LYS:HE2	2:dI:62:GLN:HG3	1.32	1.11
2:cc:62:GLN:HG3	2:hX:197:LYS:HE2	1.32	1.11
1:ck:102:GLU:CD	1:ll:99:LEU:HD11	1.75	1.11
1:cx:100:LYS:N	2:pg:197:LYS:HE2	1.02	1.11
2:du:62:GLN:HG3	2:ks:197:LYS:HE2	1.32	1.11
1:fK:102:GLU:CD	1:kv:99:LEU:HD11	1.75	1.11
2:gb:197:LYS:HE2	1:id:100:LYS:N	1.02	1.11
1:hd:99:LEU:CG	1:lM:102:GLU:CD	2.22	1.11
1:hr:99:LEU:CG	1:ku:102:GLU:CD	2.21	1.11
2:hu:197:LYS:HD2	1:hD:99:LEU:HA	1.20	1.11
1:io:99:LEU:HD11	1:on:102:GLU:CD	1.75	1.11
1:iD:60:ARG:NH2	1:po:99:LEU:CD2	2.11	1.11
1:jd:102:GLU:CD	1:jj:99:LEU:CG	2.22	1.11
1:jZ:99:LEU:CG	1:ly:102:GLU:CD	2.22	1.11
1:la:100:LYS:N	2:mK:197:LYS:HE2	1.02	1.11
1:mD:99:LEU:HD11	1:oP:102:GLU:CD	1.75	1.11
1:nk:99:LEU:CG	1:oK:102:GLU:CD	2.21	1.11
1:nU:102:GLU:CD	1:oa:99:LEU:CG	2.21	1.11
3:qh:66:GLN:N	4:qj:10:GLN:CG	2.13	1.11
5:qz:392:LEU:HD12	5:qB:400:TYR:CZ	1.85	1.11
1:an:102:GLU:CG	1:oQ:99:LEU:CD2	2.19	1.11
1:at:99:LEU:CD2	1:bR:102:GLU:CG	2.19	1.11
1:aO:102:GLU:CG	1:iV:99:LEU:CD2	2.19	1.11
1:aU:99:LEU:CG	1:iP:102:GLU:CD	2.21	1.11
1:bK:100:LYS:HZ3	1:hL:100:LYS:HG2	1.01	1.11
2:bP:197:LYS:HE2	2:lX:62:GLN:HG3	1.32	1.11
1:ch:99:LEU:CD2	1:jf:60:ARG:NH2	2.11	1.11
1:dD:99:LEU:CD2	1:fd:102:GLU:CG	2.19	1.11
1:dQ:102:GLU:CD	1:jG:99:LEU:HD11	1.75	1.11
1:eb:60:ARG:NH2	1:nW:99:LEU:CD2	2.11	1.11
1:fF:102:GLU:CD	1:mg:99:LEU:CG	2.21	1.11
2:fr:197:LYS:HE2	2:kF:62:GLN:HG3	1.32	1.11
1:fV:99:LEU:CD2	1:mc:60:ARG:NH2	2.11	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hF:32:LEU:HD11	5:qv:178:PRO:CB	1.75	1.11
1:jt:60:ARG:NH2	1:jV:99:LEU:CD2	2.11	1.11
2:kt:92:GLU:CG	5:qD:44:LYS:HA	1.78	1.11
1:kW:102:GLU:CD	1:mW:99:LEU:CG	2.21	1.11
1:mo:102:GLU:CG	1:mu:99:LEU:CD2	2.19	1.11
2:mO:197:LYS:HE2	2:oV:62:GLN:HG3	1.32	1.11
1:om:100:LYS:N	2:pW:197:LYS:HE2	1.02	1.11
1:aP:99:LEU:HD11	1:pr:102:GLU:CD	1.75	1.11
1:bh:102:GLU:CD	1:je:99:LEU:HD11	1.75	1.11
2:bQ:95:ASN:ND2	5:qp:43:ALA:O	1.83	1.11
1:cy:102:GLU:CD	1:nH:99:LEU:HD11	1.75	1.11
1:db:99:LEU:CD2	1:eP:102:GLU:CG	2.19	1.11
2:dh:197:LYS:HE2	2:fo:62:GLN:HG3	1.33	1.11
2:ey:62:GLN:HG3	2:og:197:LYS:HE2	1.32	1.11
1:eQ:99:LEU:HD11	1:iG:102:GLU:CD	1.75	1.11
1:fj:99:LEU:CG	1:gJ:102:GLU:CD	2.22	1.11
1:hz:99:LEU:HD11	1:kN:102:GLU:CD	1.75	1.11
1:hD:102:GLU:HG3	1:kJ:99:LEU:HD21	1.33	1.11
2:kt:92:GLU:HG2	5:qD:44:LYS:CA	1.81	1.11
1:mc:99:LEU:CD2	1:nu:60:ARG:NH2	2.11	1.11
3:qe:25:LEU:HD21	6:qy:82:VAL:HB	1.30	1.11
6:qs:112:LEU:CG	6:qu:58:LEU:CD1	2.25	1.11
5:qt:229:ILE:CD1	5:qv:232:LEU:HD11	1.81	1.11
5:qt:392:LEU:HD12	5:qv:400:TYR:CZ	1.85	1.11
5:qt:394:ILE:HD11	5:qv:405:ILE:HG21	1.12	1.11
5:qJ:239:TYR:O	5:qL:268:GLU:OE1	1.67	1.11
1:ae:102:GLU:HG3	1:fs:99:LEU:HD21	1.33	1.11
1:as:99:LEU:HA	2:bN:197:LYS:HD2	1.21	1.11
1:aB:99:LEU:HD11	1:mV:102:GLU:CD	1.75	1.11
1:aQ:60:ARG:NH2	1:jf:99:LEU:CD2	2.11	1.11
2:aY:197:LYS:HD2	1:bh:99:LEU:HA	1.20	1.11
1:bv:102:GLU:CD	1:dy:99:LEU:HD11	1.75	1.11
2:bQ:108:ARG:CB	5:qp:176:ASN:O	1.97	1.11
1:bX:99:LEU:CD2	1:dx:102:GLU:CG	2.19	1.11
1:cf:102:GLU:CD	1:iH:99:LEU:CG	2.21	1.11
1:cj:100:LYS:N	2:iv:197:LYS:HE2	1.02	1.11
1:dk:99:LEU:HD11	1:km:102:GLU:CD	1.75	1.11
1:dM:99:LEU:HD11	1:jK:102:GLU:CD	1.75	1.11
1:dP:100:LYS:N	2:oS:197:LYS:HE2	1.02	1.11
2:ex:197:LYS:HD2	1:gA:99:LEU:HA	1.20	1.11
1:eQ:99:LEU:HD21	1:iG:102:GLU:HG3	1.33	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fK:102:GLU:HG3	1:kv:99:LEU:HD21	1.33	1.11
2:hx:189:LYS:CE	5:qx:51:GLU:OE2	1.97	1.11
1:ie:102:GLU:CD	1:nt:99:LEU:HD11	1.75	1.11
2:jz:197:LYS:HE2	1:pS:100:LYS:N	1.02	1.11
1:lb:99:LEU:HA	2:mM:197:LYS:HD2	1.21	1.11
2:pu:197:LYS:HE2	1:pE:100:LYS:N	1.02	1.11
3:qg:63:GLN:NE2	4:qj:221:ASP:C	2.05	1.11
3:qh:61:ASP:HA	4:qj:33:SER:HB3	1.11	1.11
6:qq:112:LEU:CG	6:qs:58:LEU:CD1	2.25	1.11
1:aG:101:VAL:CG1	2:kb:198:GLU:OE2	2.00	1.10
1:aT:102:GLU:CD	1:pn:99:LEU:HD11	1.75	1.10
2:aZ:62:GLN:HG3	2:py:197:LYS:HE2	1.32	1.10
1:bd:99:LEU:HD11	1:ji:102:GLU:CD	1.75	1.10
2:bo:197:LYS:HE2	2:jo:62:GLN:HG3	1.32	1.10
1:bq:102:GLU:CG	1:dp:99:LEU:CD2	2.19	1.10
2:by:197:LYS:HE2	1:hP:100:LYS:N	1.02	1.10
1:bF:99:LEU:HD11	1:lR:102:GLU:CD	1.75	1.10
2:cE:62:GLN:HG3	2:nS:197:LYS:HE2	1.32	1.10
1:cI:99:LEU:HD11	1:pF:102:GLU:CD	1.75	1.10
1:ea:99:LEU:HD11	1:mf:102:GLU:CD	1.75	1.10
1:ee:102:GLU:HG3	1:mb:99:LEU:HD21	1.33	1.10
1:eo:99:LEU:HD11	1:nZ:102:GLU:CD	1.75	1.10
1:es:102:GLU:CD	1:nV:99:LEU:HD11	1.75	1.10
2:fl:197:LYS:HE2	1:nw:100:LYS:N	1.02	1.10
1:gA:102:GLU:CD	1:oZ:99:LEU:HD11	1.75	1.10
1:gY:99:LEU:HD21	1:oB:102:GLU:HG3	1.33	1.10
2:hx:96:LEU:O	5:qz:51:GLU:OE2	1.68	1.10
2:iX:198:GLU:OE2	1:jj:101:VAL:CG1	2.00	1.10
2:ko:32:LEU:HG	5:qF:177:SER:CB	1.75	1.10
2:kS:197:LYS:HD2	1:mV:99:LEU:HA	1.20	1.10
2:nO:197:LYS:HE2	1:nY:100:LYS:N	1.02	1.10
1:ok:60:ARG:NH2	1:oM:99:LEU:CD2	2.11	1.10
3:qg:65:GLY:C	4:qk:10:GLN:HE21	1.57	1.10
5:qz:229:ILE:CD1	5:qB:232:LEU:HD11	1.81	1.10
6:qC:112:LEU:HD21	6:qE:58:LEU:CG	1.75	1.10
5:qD:239:TYR:O	5:qF:268:GLU:OE1	1.67	1.10
1:aa:99:LEU:HD11	1:fw:102:GLU:CD	1.75	1.10
2:al:197:LYS:HE2	2:fC:62:GLN:HG3	1.32	1.10
1:aU:101:VAL:CG1	2:iJ:198:GLU:OE2	2.00	1.10
2:bk:198:GLU:OE2	1:dp:101:VAL:CG1	2.00	1.10
1:bv:102:GLU:HG3	1:dy:99:LEU:HD21	1.33	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bO:62:GLN:HG3	2:lY:197:LYS:HE2	1.32	1.10
2:cn:198:GLU:OE2	1:ps:101:VAL:CG1	2.00	1.10
2:co:197:LYS:HZ1	1:jg:99:LEU:HA	1.15	1.10
2:cr:197:LYS:HE2	2:lv:62:GLN:HG3	1.33	1.10
1:cZ:100:LYS:N	2:eJ:197:LYS:HE2	1.02	1.10
1:da:102:GLU:CD	1:fe:99:LEU:HD11	1.75	1.10
1:fj:101:VAL:CG1	2:gD:198:GLU:OE2	2.00	1.10
2:fl:198:GLU:CD	1:ny:101:VAL:HG13	1.77	1.10
2:gb:198:GLU:CD	1:if:101:VAL:HG13	1.77	1.10
2:gR:198:GLU:OE2	1:lS:101:VAL:CG1	2.00	1.10
2:hx:189:LYS:HD2	5:qx:51:GLU:HG3	1.18	1.10
2:hK:103:MET:HE1	5:qt:54:GLN:O	1.48	1.10
1:ia:99:LEU:HD11	1:nx:102:GLU:CD	1.75	1.10
1:ir:100:LYS:N	2:jN:197:LYS:HE2	1.02	1.10
1:it:101:VAL:HG13	2:jN:198:GLU:CD	1.77	1.10
1:jL:101:VAL:CG1	2:pI:198:GLU:OE2	2.00	1.10
2:kt:108:ARG:CA	5:qD:178:PRO:CB	2.18	1.10
1:kX:99:LEU:HD11	1:nj:102:GLU:CD	1.75	1.10
1:lE:101:VAL:CG1	2:mY:198:GLU:OE2	2.00	1.10
3:qh:68:ALA:N	4:qj:8:TYR:HE2	1.48	1.10
3:qi:61:ASP:HA	4:qo:33:SER:HB3	1.17	1.10
5:qp:400:TYR:CZ	5:qL:392:LEU:HD12	1.85	1.10
6:qs:112:LEU:HD21	6:qu:58:LEU:CG	1.75	1.10
6:qs:112:LEU:HD23	6:qu:58:LEU:CG	1.75	1.10
5:qv:229:ILE:CD1	5:qx:232:LEU:HD11	1.81	1.10
5:qx:394:ILE:HD11	5:qz:405:ILE:HG21	1.12	1.10
5:qB:252:LEU:HD22	6:qE:126:GLN:HB3	1.18	1.10
6:qC:112:LEU:CG	6:qE:58:LEU:CD1	2.25	1.10
1:ab:60:ARG:NH2	1:mE:99:LEU:CD2	2.11	1.10
1:ao:99:LEU:HD11	1:gm:102:GLU:CD	1.75	1.10
2:au:172:LEU:HD13	5:qJ:178:PRO:CG	1.81	1.10
1:bX:101:VAL:HG13	2:dr:198:GLU:CD	1.77	1.10
1:ck:102:GLU:HG3	1:ll:99:LEU:HD21	1.33	1.10
2:dv:197:LYS:HE2	2:kr:62:GLN:HG3	1.33	1.10
1:ef:101:VAL:CG1	2:nA:198:GLU:OE2	2.00	1.10
2:el:197:LYS:HE2	2:ml:62:GLN:HG3	1.32	1.10
1:ep:60:ARG:NH2	1:pa:99:LEU:CD2	2.11	1.10
1:ep:99:LEU:CD2	1:nI:60:ARG:NH2	2.11	1.10
2:ev:198:GLU:OE2	1:gB:101:VAL:CG1	1.99	1.10
1:eG:102:GLU:CD	1:gK:99:LEU:HD11	1.75	1.10
2:fl:198:GLU:OE2	1:ny:101:VAL:CG1	2.00	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gn:100:LYS:HZ3	1:hZ:100:LYS:HG2	0.93	1.10
1:hn:60:ARG:NH2	1:kK:99:LEU:CD2	2.11	1.10
2:hw:197:LYS:HE2	2:ja:62:GLN:HG3	1.33	1.10
2:hJ:197:LYS:HE2	2:kT:62:GLN:HG3	1.33	1.10
2:ik:62:GLN:HG3	2:nE:197:LYS:HE2	1.32	1.10
1:iR:99:LEU:CD2	1:kj:60:ARG:NH2	2.11	1.10
2:iX:198:GLU:CD	1:jj:101:VAL:HG13	1.77	1.10
1:lc:101:VAL:CG1	2:mK:198:GLU:OE2	2.00	1.10
2:mw:198:GLU:CD	1:oC:101:VAL:HG13	1.77	1.10
2:pw:197:LYS:HD2	1:pF:99:LEU:CA	1.82	1.10
3:qd:61:ASP:CA	4:qn:33:SER:OG	1.91	1.10
5:qx:252:LEU:HD22	6:qA:126:GLN:HB3	1.18	1.10
6:qI:112:LEU:HD21	6:qK:58:LEU:CG	1.75	1.10
1:at:99:LEU:CG	1:bR:102:GLU:CD	2.22	1.10
2:aW:198:GLU:OE2	1:bi:101:VAL:CG1	1.99	1.10
2:by:198:GLU:OE2	1:hR:101:VAL:CG1	1.99	1.10
1:bX:101:VAL:CG1	2:dr:198:GLU:OE2	2.00	1.10
1:cM:102:GLU:CD	1:pB:99:LEU:HD11	1.75	1.10
2:eh:198:GLU:CD	1:et:101:VAL:HG13	1.77	1.10
1:fx:101:VAL:CG1	2:nm:198:GLU:OE2	2.00	1.10
1:fG:99:LEU:HD11	1:kz:102:GLU:CD	1.75	1.10
1:fU:99:LEU:HD11	1:mt:102:GLU:CD	1.75	1.10
1:hc:102:GLU:CD	1:ox:99:LEU:HD11	1.75	1.10
1:hd:101:VAL:HG13	2:lG:198:GLU:CD	1.77	1.10
2:il:197:LYS:HE2	2:nD:62:GLN:HG3	1.32	1.10
2:iy:62:GLN:HG3	2:ou:197:LYS:HE2	1.32	1.10
1:jx:101:VAL:CG1	2:le:198:GLU:OE2	2.00	1.10
1:jU:99:LEU:HD11	1:pT:102:GLU:CD	1.75	1.10
2:ke:62:GLN:HG3	2:qa:197:LYS:HE2	1.32	1.10
1:lE:99:LEU:CD2	1:ne:102:GLU:CG	2.19	1.10
2:mi:198:GLU:OE2	1:mu:101:VAL:CG1	2.00	1.10
1:nk:101:VAL:CG1	2:oE:198:GLU:OE2	2.00	1.10
2:nO:198:GLU:CD	1:oa:101:VAL:HG13	1.77	1.10
1:nU:102:GLU:CG	1:oa:99:LEU:CD2	2.19	1.10
3:qg:55:GLU:HB3	4:qk:223:ASN:ND2	1.66	1.10
3:qh:65:GLY:HA3	4:qj:9:GLY:O	0.92	1.10
5:qp:229:ILE:CD1	5:qr:232:LEU:HD11	1.81	1.10
5:qp:232:LEU:HD11	5:qL:229:ILE:CD1	1.81	1.10
6:qu:112:LEU:CG	6:qw:58:LEU:CD1	2.25	1.10
6:qE:112:LEU:HD21	6:qG:58:LEU:CG	1.75	1.10
5:qF:392:LEU:HD12	5:qH:400:TYR:CZ	1.85	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qH:239:TYR:O	5:qJ:268:GLU:OE1	1.67	1.10
5:qH:392:LEU:HD12	5:qJ:400:TYR:CZ	1.85	1.10
2:ah:198:GLU:OE2	1:oQ:101:VAL:CG1	2.00	1.10
2:aY:197:LYS:HD2	1:bh:99:LEU:CA	1.82	1.10
2:bA:197:LYS:HD2	1:hQ:99:LEU:CA	1.82	1.10
1:bG:60:ARG:NH2	1:gj:99:LEU:CD2	2.11	1.10
2:bZ:198:GLU:OE2	1:iH:101:VAL:CG1	2.00	1.10
1:cz:101:VAL:CG1	2:pg:198:GLU:OE2	2.00	1.10
2:cP:197:LYS:HE2	1:eT:100:LYS:N	1.02	1.10
1:db:101:VAL:CG1	2:eJ:198:GLU:OE2	2.00	1.10
1:dz:60:ARG:NH2	1:gx:99:LEU:CD2	2.11	1.10
2:dH:197:LYS:HD2	1:pd:99:LEU:CA	1.82	1.10
2:dX:197:LYS:HE2	2:jQ:62:GLN:HG3	1.32	1.10
1:ee:99:LEU:CA	2:nC:197:LYS:HD2	1.82	1.10
2:fn:197:LYS:HD2	1:nx:99:LEU:CA	1.82	1.10
1:fv:100:LYS:N	2:nm:197:LYS:HE2	1.02	1.10
2:fz:198:GLU:OE2	1:mg:101:VAL:CG1	2.00	1.10
1:fY:102:GLU:CD	1:mp:99:LEU:HD11	1.75	1.10
1:gw:99:LEU:HD21	1:pd:102:GLU:HG3	1.33	1.10
2:gG:62:GLN:HG3	2:pk:197:LYS:HE2	1.32	1.10
1:hd:101:VAL:CG1	2:lG:198:GLU:OE2	2.00	1.10
2:hF:198:GLU:OE2	1:kA:101:VAL:CG1	1.99	1.10
1:hm:99:LEU:HD11	1:iU:102:GLU:CD	1.75	1.10
2:hu:197:LYS:HD2	1:hD:99:LEU:CA	1.82	1.10
1:hy:100:LYS:HG2	1:hE:100:LYS:HZ3	1.01	1.10
1:ie:102:GLU:HG3	1:nt:99:LEU:HD21	1.33	1.10
1:it:101:VAL:CG1	2:jN:198:GLU:OE2	2.00	1.10
1:jw:102:GLU:HG3	1:lz:99:LEU:HD21	1.33	1.10
2:kC:198:GLU:CD	1:kO:101:VAL:HG13	1.77	1.10
2:kQ:198:GLU:OE2	1:mW:101:VAL:CG1	2.00	1.10
1:lc:101:VAL:HG13	2:mK:198:GLU:CD	1.77	1.10
2:nO:198:GLU:OE2	1:oa:101:VAL:CG1	2.00	1.10
1:on:99:LEU:CA	2:pY:197:LYS:HD2	1.82	1.10
5:qr:229:ILE:CD1	5:qt:232:LEU:HD11	1.81	1.10
5:qv:392:LEU:HD12	5:qx:400:TYR:CZ	1.85	1.10
5:qx:229:ILE:CD1	5:qz:232:LEU:HD11	1.81	1.10
5:qF:239:TYR:O	5:qH:268:GLU:OE1	1.67	1.10
1:ae:99:LEU:CA	2:oe:197:LYS:HD2	1.82	1.09
2:aI:198:GLU:CD	1:iV:101:VAL:HG13	1.77	1.09
2:aW:197:LYS:HE2	1:bg:100:LYS:N	1.02	1.09
1:bv:99:LEU:HA	2:df:197:LYS:HD2	1.21	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bw:99:LEU:CD2	1:dj:102:GLU:CG	2.19	1.09
2:cB:198:GLU:CD	1:cN:101:VAL:HG13	1.77	1.09
2:cD:197:LYS:HD2	1:cM:99:LEU:CA	1.82	1.09
1:dC:99:LEU:CA	2:eZ:197:LYS:HD2	1.82	1.09
1:ea:99:LEU:HD21	1:mf:102:GLU:HG3	1.33	1.09
2:eh:198:GLU:OE2	1:et:101:VAL:CG1	2.00	1.09
1:en:102:GLU:CG	1:et:99:LEU:CD2	2.19	1.09
2:ex:197:LYS:HD2	1:gA:99:LEU:CA	1.82	1.09
1:fi:99:LEU:CA	2:gF:197:LYS:HD2	1.82	1.09
2:fn:197:LYS:HD2	1:nx:99:LEU:HA	1.21	1.09
2:fN:198:GLU:OE2	1:fZ:101:VAL:CG1	2.00	1.09
2:fN:198:GLU:CD	1:fZ:101:VAL:HG13	1.77	1.09
2:gb:198:GLU:OE2	1:if:101:VAL:CG1	2.00	1.09
1:gn:101:VAL:CG1	2:hT:198:GLU:OE2	2.00	1.09
1:gN:100:LYS:N	2:ih:197:LYS:HE2	1.02	1.09
1:hc:99:LEU:HA	2:II:197:LYS:HD2	1.20	1.09
2:hf:198:GLU:CD	1:kA:101:VAL:HG13	1.77	1.09
1:hD:102:GLU:CD	1:kJ:99:LEU:HD11	1.75	1.09
1:kI:102:GLU:CG	1:kO:99:LEU:CD2	2.19	1.09
2:kQ:198:GLU:CD	1:mW:101:VAL:HG13	1.77	1.09
1:mI:101:VAL:CG1	2:og:198:GLU:OE2	2.00	1.09
2:mN:62:GLN:HG3	2:ow:197:LYS:HE2	1.32	1.09
1:nj:99:LEU:CA	2:og:197:LYS:HD2	1.82	1.09
3:qg:55:GLU:CD	4:qk:223:ASN:HD22	1.59	1.09
3:qh:64:GLY:O	4:qo:220:SER:O	1.70	1.09
6:qy:112:LEU:HD23	6:qA:58:LEU:CG	1.76	1.09
6:qK:112:LEU:HD21	6:qM:58:LEU:CG	1.75	1.09
2:aK:197:LYS:HD2	1:iU:99:LEU:CA	1.82	1.09
1:aU:101:VAL:HG13	2:iJ:198:GLU:CD	1.77	1.09
2:bn:62:GLN:HG3	2:jp:197:LYS:HE2	1.32	1.09
2:bQ:107:GLY:C	5:qp:176:ASN:CB	2.26	1.09
1:bW:102:GLU:HG3	1:hM:99:LEU:HD21	1.33	1.09
1:cz:101:VAL:HG13	2:pg:198:GLU:CD	1.77	1.09
1:cW:99:LEU:HD11	1:fi:102:GLU:CD	1.75	1.09
1:do:102:GLU:CD	1:ki:99:LEU:HD11	1.75	1.09
1:dD:101:VAL:HG13	2:eX:198:GLU:CD	1.77	1.09
2:dF:198:GLU:OE2	1:pe:101:VAL:CG1	2.00	1.09
2:dW:62:GLN:HG3	2:jR:197:LYS:HE2	1.32	1.09
1:ee:102:GLU:CD	1:mb:99:LEU:HD11	1.75	1.09
2:ej:197:LYS:HD2	1:es:99:LEU:CA	1.82	1.09
1:eH:101:VAL:HG13	2:gp:198:GLU:CD	1.77	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eM:62:GLN:HG3	2:gV:197:LYS:HE2	1.32	1.09
1:fG:99:LEU:HD21	1:kz:102:GLU:HG3	1.33	1.09
1:fW:60:ARG:HD3	1:ie:99:LEU:HD21	1.35	1.09
1:gh:102:GLU:CG	1:if:99:LEU:CD2	2.19	1.09
1:gO:99:LEU:HD21	1:ic:60:ARG:HD3	1.35	1.09
1:hc:99:LEU:CA	2:II:197:LYS:HD2	1.82	1.09
1:js:99:LEU:HD11	1:lD:102:GLU:CD	1.75	1.09
1:jw:102:GLU:CD	1:lz:99:LEU:HD11	1.75	1.09
1:jU:99:LEU:HD21	1:pT:102:GLU:HG3	1.33	1.09
1:jY:102:GLU:CD	1:pP:99:LEU:HD11	1.75	1.09
2:ko:32:LEU:HD21	5:qF:177:SER:HA	1.17	1.09
2:kE:197:LYS:HD2	1:kN:99:LEU:CA	1.82	1.09
1:lD:99:LEU:CA	2:na:197:LYS:HD2	1.82	1.09
2:mw:198:GLU:OE2	1:oC:101:VAL:CG1	2.00	1.09
3:qd:66:GLN:C	4:qn:194:LEU:HD12	1.77	1.09
3:qf:61:ASP:CA	4:ql:33:SER:HB2	1.68	1.09
5:qp:392:LEU:HD12	5:qr:400:TYR:CZ	1.85	1.09
5:qr:394:ILE:HD11	5:qt:405:ILE:HG21	1.12	1.09
2:ax:62:GLN:HG3	2:gt:197:LYS:HE2	1.33	1.09
1:aF:99:LEU:CA	2:kd:197:LYS:HD2	1.82	1.09
2:aI:197:LYS:HE2	1:iT:100:LYS:N	1.02	1.09
2:aI:198:GLU:OE2	1:iV:101:VAL:CG1	2.00	1.09
2:ba:197:LYS:HE2	2:px:62:GLN:HG3	1.32	1.09
1:bJ:102:GLU:HG3	1:lN:99:LEU:HD21	1.33	1.09
1:cl:101:VAL:HG13	2:iv:198:GLU:CD	1.77	1.09
2:cn:197:LYS:HE2	1:pq:100:LYS:N	1.02	1.09
2:cn:198:GLU:CD	1:ps:101:VAL:HG13	1.77	1.09
2:cP:198:GLU:CD	1:eV:101:VAL:HG13	1.77	1.09
1:dC:99:LEU:HA	2:eZ:197:LYS:HD2	1.20	1.09
1:eo:99:LEU:HD21	1:nZ:102:GLU:HG3	1.33	1.09
1:eC:99:LEU:HD11	1:gO:102:GLU:CD	1.75	1.09
1:gO:99:LEU:CA	2:ij:197:LYS:HD2	1.82	1.09
1:gY:99:LEU:HD11	1:oB:102:GLU:CD	1.75	1.09
2:hF:32:LEU:CD1	5:qv:178:PRO:HG2	1.60	1.09
2:hF:32:LEU:HD13	5:qv:178:PRO:CB	1.77	1.09
1:ip:60:ARG:NH2	1:lm:99:LEU:CD2	2.11	1.09
1:is:102:GLU:HG3	1:oj:99:LEU:HD21	1.33	1.09
1:jg:60:ARG:HD3	1:lp:99:LEU:HD21	1.35	1.09
2:jl:198:GLU:CD	1:lq:101:VAL:HG13	1.77	1.09
1:ju:60:ARG:HD3	1:pT:99:LEU:HD21	1.35	1.09
1:jH:99:LEU:CD2	1:oM:60:ARG:NH2	2.11	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jV:60:ARG:NH2	1:mS:99:LEU:CD2	2.11	1.09
2:kf:197:LYS:HE2	2:pZ:62:GLN:HG3	1.33	1.09
2:kC:198:GLU:OE2	1:kO:101:VAL:CG1	2.00	1.09
1:pA:100:LYS:HG2	1:pG:100:LYS:HZ3	1.14	1.09
6:qu:112:LEU:HD23	6:qw:58:LEU:CG	1.76	1.09
5:qz:394:ILE:HD11	5:qB:405:ILE:HG21	1.11	1.09
5:qD:229:ILE:CD1	5:qF:232:LEU:HD11	1.81	1.09
1:aT:102:GLU:HG3	1:pn:99:LEU:HD21	1.33	1.09
1:bw:101:VAL:CG1	2:dd:198:GLU:OE2	1.99	1.09
2:by:198:GLU:CD	1:hR:101:VAL:HG13	1.77	1.09
1:cK:60:ARG:HD3	1:eU:99:LEU:HD21	1.35	1.09
1:dD:101:VAL:CG1	2:eX:198:GLU:OE2	2.00	1.09
1:dQ:99:LEU:CA	2:oU:197:LYS:HD2	1.82	1.09
1:ec:99:LEU:HA	2:od:197:LYS:HZ1	1.18	1.09
1:ef:101:VAL:HG13	2:nA:198:GLU:CD	1.77	1.09
1:eH:101:VAL:CG1	2:gp:198:GLU:OE2	1.99	1.09
2:fz:198:GLU:CD	1:mg:101:VAL:HG13	1.77	1.09
1:fL:101:VAL:CG1	2:lU:198:GLU:OE2	2.00	1.09
1:gP:101:VAL:CG1	2:ih:198:GLU:OE2	2.00	1.09
1:gZ:99:LEU:CD2	1:mq:60:ARG:NH2	2.11	1.09
2:hh:197:LYS:HD2	1:kz:99:LEU:CA	1.82	1.09
1:hq:99:LEU:CA	2:kq:197:LYS:HD2	1.82	1.09
2:hs:107:GLY:N	5:qB:178:PRO:CD	2.03	1.09
2:hx:95:ASN:HB2	5:qz:47:ARG:NE	1.65	1.09
2:iZ:197:LYS:HD2	1:ji:99:LEU:CA	1.82	1.09
2:jl:197:LYS:HE2	1:lo:100:LYS:N	1.02	1.09
2:jl:198:GLU:OE2	1:lq:101:VAL:CG1	2.00	1.09
1:jY:99:LEU:CA	2:lu:197:LYS:HD2	1.82	1.09
2:lh:62:GLN:HG3	2:nq:197:LYS:HE2	1.32	1.09
1:md:60:ARG:HD3	1:mt:99:LEU:HD21	1.35	1.09
1:mI:101:VAL:HG13	2:oq:198:GLU:CD	1.77	1.09
1:oo:101:VAL:CG1	2:pW:198:GLU:OE2	2.00	1.09
3:qg:65:GLY:N	4:qk:10:GLN:NE2	2.01	1.09
6:qq:126:GLN:HB3	5:qL:252:LEU:HD22	1.18	1.09
5:qB:392:LEU:HD12	5:qD:400:TYR:CZ	1.85	1.09
2:aw:197:LYS:HD2	1:km:99:LEU:CA	1.82	1.09
1:aA:100:LYS:HG2	1:kn:100:LYS:HZ3	0.99	1.09
1:aT:99:LEU:HD21	1:iE:60:ARG:HD3	1.35	1.09
1:bJ:99:LEU:CA	2:hH:197:LYS:HD2	1.82	1.09
1:ci:60:ARG:HD3	1:pr:99:LEU:HD21	1.35	1.09
2:cB:198:GLU:OE2	1:cN:101:VAL:CG1	1.99	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cP:198:GLU:OE2	1:eV:101:VAL:CG1	2.00	1.09
1:cX:60:ARG:NH2	1:dz:99:LEU:CD2	2.11	1.09
1:da:99:LEU:CA	2:eL:197:LYS:HD2	1.82	1.09
1:do:102:GLU:HG3	1:ki:99:LEU:HD21	1.33	1.09
1:fi:99:LEU:HD21	1:gy:60:ARG:HD3	1.35	1.09
1:fx:101:VAL:HG13	2:nm:198:GLU:CD	1.77	1.09
1:gl:100:LYS:N	2:hT:197:LYS:HE2	1.02	1.09
1:gn:101:VAL:HG13	2:hT:198:GLU:CD	1.77	1.09
2:hs:107:GLY:HA3	5:qB:177:SER:C	1.76	1.09
2:hs:182:LEU:HD13	5:qB:176:ASN:HA	1.30	1.09
2:jz:198:GLU:OE2	1:pU:101:VAL:CG1	2.00	1.09
1:jY:99:LEU:HA	2:lu:197:LYS:HD2	1.20	1.09
1:jZ:101:VAL:HG13	2:ls:198:GLU:CD	1.77	1.09
1:jZ:101:VAL:CG1	2:ls:198:GLU:OE2	1.99	1.09
1:lD:99:LEU:HD21	1:mT:60:ARG:HD3	1.35	1.09
1:mH:99:LEU:HD21	1:ol:60:ARG:HD3	1.35	1.09
1:nj:99:LEU:HD21	1:oz:60:ARG:HD3	1.35	1.09
2:nQ:197:LYS:HD2	1:nZ:99:LEU:CA	1.82	1.09
5:qB:229:ILE:CD1	5:qD:232:LEU:HD11	1.81	1.09
5:qH:229:ILE:CD1	5:qJ:232:LEU:HD11	1.81	1.09
5:qJ:392:LEU:HD12	5:qL:400:TYR:CZ	1.85	1.09
1:aB:99:LEU:HD21	1:mV:102:GLU:HG3	1.33	1.08
1:aC:99:LEU:CD2	1:kK:60:ARG:NH2	2.11	1.08
1:aG:101:VAL:HG13	2:kb:198:GLU:CD	1.77	1.08
1:bt:60:ARG:HD3	1:hQ:99:LEU:HD21	1.35	1.08
1:bu:100:LYS:N	2:dd:197:LYS:HE2	1.02	1.08
1:cl:101:VAL:CG1	2:iv:198:GLU:OE2	2.00	1.08
1:cv:99:LEU:CD2	1:dN:60:ARG:NH2	2.11	1.08
1:cy:99:LEU:CA	2:pi:197:LYS:HD2	1.82	1.08
2:dF:198:GLU:CD	1:pe:101:VAL:HG13	1.77	1.08
1:dQ:99:LEU:HD21	1:oN:60:ARG:HD3	1.35	1.08
1:dR:101:VAL:CG1	2:oS:198:GLU:OE2	2.00	1.08
2:dV:197:LYS:HD2	1:nL:99:LEU:CA	1.82	1.08
1:es:102:GLU:HG3	1:nV:99:LEU:HD21	1.33	1.08
2:ev:198:GLU:CD	1:gB:101:VAL:HG13	1.77	1.08
1:fj:99:LEU:CD2	1:gJ:102:GLU:CG	2.19	1.08
2:fB:197:LYS:HD2	1:mf:99:LEU:CA	1.82	1.08
1:fH:60:ARG:NH2	1:mq:99:LEU:CD2	2.11	1.08
2:ge:62:GLN:HG3	2:mA:197:LYS:HE2	1.32	1.08
1:gm:99:LEU:HD21	1:hO:60:ARG:HD3	1.35	1.08
2:gT:197:LYS:HD2	1:lR:99:LEU:CA	1.82	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hm:99:LEU:HD21	1:iU:102:GLU:HG3	1.33	1.08
2:iz:197:LYS:HE2	2:ot:62:GLN:HG3	1.32	1.08
1:jx:101:VAL:HG13	2:le:198:GLU:CD	1.77	1.08
1:jK:99:LEU:HD21	1:pD:60:ARG:HD3	1.35	1.08
1:mH:102:GLU:CD	1:oL:99:LEU:HD11	1.75	1.08
2:pu:198:GLU:OE2	1:pG:101:VAL:CG1	2.00	1.08
2:pu:198:GLU:CD	1:pG:101:VAL:HG13	1.77	1.08
3:qe:68:ALA:N	4:qm:8:TYR:CE2	2.21	1.08
5:qr:392:LEU:HD12	5:qt:400:TYR:CZ	1.85	1.08
6:qG:112:LEU:HD21	6:qI:58:LEU:CG	1.75	1.08
1:af:101:VAL:CG1	2:oc:198:GLU:OE2	2.00	1.08
1:as:99:LEU:HD21	1:bH:60:ARG:HD3	1.35	1.08
1:bw:101:VAL:HG13	2:dd:198:GLU:CD	1.77	1.08
2:bZ:198:GLU:CD	1:iH:101:VAL:HG13	1.77	1.08
2:cq:62:GLN:HG3	2:lw:197:LYS:HE2	1.33	1.08
2:cR:197:LYS:HD2	1:eU:99:LEU:CA	1.82	1.08
2:dT:198:GLU:OE2	1:nM:101:VAL:CG1	2.00	1.08
1:eb:99:LEU:CD2	1:ft:60:ARG:NH2	2.11	1.08
2:fP:197:LYS:HD2	1:fY:99:LEU:CA	1.82	1.08
1:fV:60:ARG:NH2	1:nu:99:LEU:CD2	2.11	1.08
1:gM:60:ARG:HD3	1:lR:99:LEU:HD21	1.35	1.08
2:gR:197:LYS:HE2	1:lQ:100:LYS:N	1.02	1.08
2:gR:198:GLU:CD	1:lS:101:VAL:HG13	1.77	1.08
2:kS:197:LYS:HD2	1:mV:99:LEU:CA	1.82	1.08
2:mk:197:LYS:HD2	1:mt:99:LEU:CA	1.82	1.08
1:mG:100:LYS:N	2:oq:197:LYS:HE2	1.02	1.08
3:qf:66:GLN:N	4:ql:10:GLN:CG	2.16	1.08
3:qf:66:GLN:HG3	4:ql:194:LEU:N	1.53	1.08
6:qw:112:LEU:HD23	6:qy:58:LEU:CG	1.76	1.08
5:qJ:229:ILE:CD1	5:qL:232:LEU:HD11	1.81	1.08
1:ac:60:ARG:HD3	1:oP:99:LEU:HD21	1.35	1.08
1:aG:100:LYS:HZ3	1:kh:100:LYS:HG2	0.96	1.08
2:bB:62:GLN:HG3	2:dJ:197:LYS:HE2	1.32	1.08
2:bM:197:LYS:HZ1	1:gM:99:LEU:HA	1.16	1.08
1:cW:99:LEU:HD21	1:f:102:GLU:HG3	1.33	1.08
1:cX:99:LEU:CD2	1:gx:60:ARG:NH2	2.11	1.08
1:ee:99:LEU:HA	2:nC:197:LYS:HD2	1.20	1.08
1:eq:60:ARG:HD3	1:gA:99:LEU:HD21	1.35	1.08
1:fw:99:LEU:CA	2:no:197:LYS:HD2	1.82	1.08
2:gd:197:LYS:HD2	1:ie:99:LEU:CA	1.82	1.08
2:hh:197:LYS:HD2	1:kz:99:LEU:HA	1.20	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hq:102:GLU:HG3	1:iQ:99:LEU:HD21	1.33	1.08
2:jn:197:LYS:HD2	1:lp:99:LEU:CA	1.82	1.08
2:jz:198:GLU:CD	1:pU:101:VAL:HG13	1.77	1.08
1:jL:100:LYS:HZ3	1:pO:100:LYS:HG2	1.10	1.08
2:mi:198:GLU:CD	1:mu:101:VAL:HG13	1.77	1.08
2:my:197:LYS:HD2	1:oB:99:LEU:CA	1.82	1.08
1:on:99:LEU:HD21	1:pR:60:ARG:HD3	1.35	1.08
1:pp:60:ARG:HD3	1:pF:99:LEU:HD21	1.35	1.08
3:qd:68:ALA:N	4:qn:8:TYR:CE2	2.21	1.08
3:qe:65:GLY:HA2	4:ql:220:SER:H	1.16	1.08
1:ab:99:LEU:CD2	1:ng:60:ARG:NH2	2.11	1.08
1:as:99:LEU:CA	2:bN:197:LYS:HD2	1.82	1.08
2:ay:197:LYS:HE2	2:gs:62:GLN:HG3	1.33	1.08
2:bk:198:GLU:CD	1:dp:101:VAL:HG13	1.77	1.08
1:bv:99:LEU:HD21	1:cY:60:ARG:HD3	1.35	1.08
1:bW:99:LEU:CA	2:dt:197:LYS:HD2	1.82	1.08
1:ck:99:LEU:CA	2:ix:197:LYS:HD2	1.82	1.08
1:ck:102:GLU:CG	1:ll:99:LEU:HG	1.84	1.08
1:cv:60:ARG:NH2	1:pC:99:LEU:CD2	2.11	1.08
2:cT:197:LYS:HE2	2:pL:62:GLN:HG3	1.32	1.08
1:dM:99:LEU:HG	1:jK:102:GLU:CG	1.84	1.08
2:dT:198:GLU:CD	1:nM:101:VAL:HG13	1.77	1.08
2:eN:197:LYS:HE2	2:gU:62:GLN:HG3	1.33	1.08
1:fK:99:LEU:CA	2:lW:197:LYS:HD2	1.82	1.08
1:fU:99:LEU:HG	1:mt:102:GLU:CG	1.84	1.08
2:gf:197:LYS:HE2	2:mz:62:GLN:HG3	1.33	1.08
1:gP:101:VAL:HG13	2:ih:198:GLU:CD	1.77	1.08
1:ha:60:ARG:HD3	1:kz:99:LEU:HD21	1.35	1.08
1:hq:99:LEU:HD21	1:kk:60:ARG:HD3	1.35	1.08
1:ip:99:LEU:CD2	1:pQ:60:ARG:NH2	2.11	1.08
1:is:99:LEU:CA	2:jP:197:LYS:HD2	1.82	1.08
1:js:99:LEU:HG	1:lD:102:GLU:CG	1.84	1.08
1:js:99:LEU:HD21	1:lD:102:GLU:HG3	1.33	1.08
2:jC:62:GLN:HG3	2:lK:197:LYS:HE2	1.32	1.08
1:jK:99:LEU:CA	2:pK:197:LYS:HD2	1.82	1.08
1:lb:102:GLU:HG3	1:nf:99:LEU:HD21	1.33	1.08
1:mH:99:LEU:CA	2:os:197:LYS:HD2	1.82	1.08
5:qF:229:ILE:CD1	5:qH:232:LEU:HD11	1.81	1.08
1:af:101:VAL:HG13	2:oc:198:GLU:CD	1.77	1.08
1:aq:60:ARG:HD3	1:km:99:LEU:HD21	1.35	1.08
1:aF:102:GLU:CG	1:mR:99:LEU:HG	1.84	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aW:198:GLU:CD	1:bi:101:VAL:HG13	1.77	1.08
1:bv:99:LEU:CA	2:df:197:LYS:HD2	1.82	1.08
1:cl:99:LEU:CD2	1:iB:102:GLU:CG	2.19	1.08
1:cM:102:GLU:HG3	1:pB:99:LEU:HD21	1.33	1.08
1:cM:102:GLU:CG	1:pB:99:LEU:HG	1.84	1.08
1:cW:99:LEU:HG	1:fi:102:GLU:CG	1.84	1.08
1:da:102:GLU:HG3	1:fe:99:LEU:HD21	1.33	1.08
1:do:102:GLU:CG	1:ki:99:LEU:HG	1.84	1.08
1:ee:102:GLU:CG	1:mb:99:LEU:HG	1.84	1.08
1:fG:99:LEU:HG	1:kz:102:GLU:CG	1.84	1.08
1:fl:60:ARG:HD3	1:fY:99:LEU:HD21	1.35	1.08
1:fW:99:LEU:HA	2:nB:197:LYS:HZ1	1.19	1.08
1:fY:102:GLU:HG3	1:mp:99:LEU:HD21	1.33	1.08
1:fY:102:GLU:CG	1:mp:99:LEU:HG	1.84	1.08
1:hq:102:GLU:CG	1:iQ:99:LEU:HG	1.84	1.08
1:jw:102:GLU:CG	1:lz:99:LEU:HG	1.84	1.08
1:jL:101:VAL:HG13	2:pI:198:GLU:CD	1.77	1.08
1:lb:99:LEU:CA	2:mM:197:LYS:HD2	1.82	1.08
2:mi:197:LYS:HE2	1:ms:100:LYS:N	1.02	1.08
1:mr:60:ARG:HD3	1:oB:99:LEU:HD21	1.35	1.08
1:oo:101:VAL:HG13	2:pW:198:GLU:CD	1.77	1.08
5:qp:405:ILE:HG21	5:qL:394:ILE:HD11	1.12	1.08
5:qD:392:LEU:HD12	5:qF:400:TYR:CZ	1.85	1.08
2:ah:198:GLU:CD	1:oQ:101:VAL:HG13	1.77	1.07
2:ak:62:GLN:HG3	2:fd:197:LYS:HE2	1.33	1.07
1:aD:60:ARG:HD3	1:iU:99:LEU:CD2	1.84	1.07
1:aT:99:LEU:CA	2:iL:197:LYS:HD2	1.82	1.07
1:be:99:LEU:CD2	1:iR:60:ARG:NH2	2.11	1.07
2:bm:197:LYS:HD2	1:do:99:LEU:CA	1.82	1.07
1:cg:99:LEU:HG	1:lp:102:GLU:CG	1.84	1.07
2:cp:197:LYS:HD2	1:pr:99:LEU:CA	1.82	1.07
1:cu:99:LEU:HG	1:nL:102:GLU:CG	1.84	1.07
1:cy:99:LEU:CD2	1:pb:60:ARG:HD3	1.85	1.07
1:cy:102:GLU:CG	1:nH:99:LEU:HG	1.84	1.07
2:cD:197:LYS:HD2	1:cM:99:LEU:HA	1.20	1.07
2:cF:197:LYS:HE2	2:nR:62:GLN:HG3	1.33	1.07
1:da:102:GLU:CG	1:fe:99:LEU:HG	1.84	1.07
1:db:101:VAL:HG13	2:eJ:198:GLU:CD	1.77	1.07
1:dR:99:LEU:CD2	1:oY:102:GLU:CG	2.19	1.07
1:dR:100:LYS:HZ3	1:oY:100:LYS:HG2	0.98	1.07
1:dR:101:VAL:HG13	2:oS:198:GLU:CD	1.77	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eG:99:LEU:CA	2:gr:197:LYS:HD2	1.82	1.07
1:eQ:99:LEU:HG	1:iG:102:GLU:CG	1.84	1.07
1:eU:102:GLU:CG	1:iC:99:LEU:HG	1.84	1.07
2:fa:62:GLN:HG3	2:iN:197:LYS:HE2	1.33	1.07
1:fw:99:LEU:HD21	1:nh:60:ARG:HD3	1.35	1.07
1:fL:101:VAL:HG13	2:lU:198:GLU:CD	1.77	1.07
2:hs:170:TRP:H	5:qz:178:PRO:HG3	0.97	1.07
2:hs:182:LEU:HD11	5:qB:176:ASN:HA	1.16	1.07
2:hF:32:LEU:CD2	5:qv:178:PRO:HG2	1.84	1.07
1:ia:99:LEU:HD21	1:nx:102:GLU:HG3	1.33	1.07
1:jw:99:LEU:CA	2:lg:197:LYS:HD2	1.82	1.07
1:lE:101:VAL:HG13	2:mY:198:GLU:CD	1.77	1.07
1:nJ:60:ARG:HD3	1:nZ:99:LEU:CD2	1.84	1.07
3:qi:84:TYR:HE1	6:qM:20:GLU:HG2	1.11	1.07
1:ac:60:ARG:HD3	1:oP:99:LEU:CD2	1.84	1.07
1:bt:60:ARG:HD3	1:hQ:99:LEU:CD2	1.85	1.07
1:dk:99:LEU:HG	1:km:102:GLU:CG	1.84	1.07
1:dO:60:ARG:HD3	1:nL:99:LEU:HD21	1.35	1.07
1:dQ:102:GLU:CG	1:jG:99:LEU:HG	1.84	1.07
1:eF:100:LYS:N	2:gp:197:LYS:HE2	1.02	1.07
1:fj:101:VAL:HG13	2:gD:198:GLU:CD	1.77	1.07
2:fQ:62:GLN:HG3	2:kG:197:LYS:HE2	1.33	1.07
1:gm:99:LEU:CA	2:hV:197:LYS:HD2	1.82	1.07
1:gw:99:LEU:HG	1:pd:102:GLU:CG	1.84	1.07
1:hc:99:LEU:HD21	1:lB:60:ARG:HD3	1.35	1.07
1:lc:100:LYS:HZ3	1:mQ:100:LYS:HG2	0.90	1.07
1:nj:99:LEU:CD2	1:oz:60:ARG:HD3	1.84	1.07
3:qf:68:ALA:N	4:ql:8:TYR:CE2	2.22	1.07
1:ae:99:LEU:CD2	1:nX:60:ARG:HD3	1.84	1.07
1:ae:99:LEU:HD21	1:nX:60:ARG:HD3	1.35	1.07
2:aj:197:LYS:HD2	1:oP:99:LEU:CA	1.82	1.07
2:az:103:MET:SD	5:qJ:32:PHE:CE2	2.47	1.07
2:az:183:ILE:HG12	5:qH:178:PRO:HB2	1.08	1.07
1:aF:102:GLU:HG3	1:mR:99:LEU:HD21	1.33	1.07
2:aL:62:GLN:HG3	2:nc:197:LYS:HE2	1.32	1.07
1:bv:99:LEU:CD2	1:cY:60:ARG:HD3	1.85	1.07
1:da:99:LEU:CD2	1:eE:60:ARG:HD3	1.85	1.07
1:ea:99:LEU:HG	1:mf:102:GLU:CG	1.84	1.07
1:gO:99:LEU:CD2	1:ic:60:ARG:HD3	1.85	1.07
1:hl:102:GLU:CG	1:kA:99:LEU:CD2	2.19	1.07
1:hm:99:LEU:HG	1:iU:102:GLU:CG	1.84	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iS:60:ARG:HD3	1:ji:99:LEU:HD21	1.35	1.07
1:ju:60:ARG:HD3	1:pT:99:LEU:CD2	1.85	1.07
1:nk:101:VAL:HG13	2:oE:198:GLU:CD	1.77	1.07
1:ao:99:LEU:HG	1:gm:102:GLU:CG	1.84	1.07
1:aq:60:ARG:HD3	1:km:99:LEU:CD2	1.84	1.07
1:aP:99:LEU:HG	1:pr:102:GLU:CG	1.84	1.07
1:aS:100:LYS:N	2:iJ:197:LYS:HE2	1.02	1.07
1:br:99:LEU:HG	1:dC:102:GLU:CG	1.84	1.07
1:bT:60:ARG:NH2	1:eR:99:LEU:CD2	2.11	1.07
1:ci:60:ARG:HD3	1:pr:99:LEU:CD2	1.85	1.07
1:cH:102:GLU:CG	1:cN:99:LEU:CD2	2.19	1.07
1:dQ:102:GLU:HG3	1:jG:99:LEU:HD21	1.33	1.07
1:ef:99:LEU:CD2	1:nG:102:GLU:CG	2.19	1.07
1:fw:99:LEU:CD2	1:nh:60:ARG:HD3	1.85	1.07
2:fA:197:LYS:HZ1	1:nX:99:LEU:HA	1.14	1.07
1:jr:102:GLU:CG	1:lq:99:LEU:CD2	2.19	1.07
2:jB:197:LYS:HD2	1:pT:99:LEU:CA	1.82	1.07
2:kt:107:GLY:O	5:qD:178:PRO:HG3	1.50	1.07
1:kX:99:LEU:HG	1:nj:102:GLU:CG	1.84	1.07
2:li:197:LYS:HE2	2:np:62:GLN:HG3	1.32	1.07
1:mH:102:GLU:CG	1:oL:99:LEU:HG	1.84	1.07
1:on:99:LEU:CD2	1:pR:60:ARG:HD3	1.85	1.07
3:qg:60:ALA:O	4:qk:33:SER:OG	1.71	1.07
1:aB:99:LEU:HG	1:mV:102:GLU:CG	1.84	1.07
1:aR:60:ARG:HD3	1:bh:99:LEU:HD21	1.35	1.07
1:aT:99:LEU:CD2	1:iE:60:ARG:HD3	1.84	1.07
1:bd:99:LEU:HG	1:ji:102:GLU:CG	1.84	1.07
2:bB:62:GLN:HG3	2:dJ:197:LYS:CE	1.85	1.07
2:cb:197:LYS:HD2	1:iG:99:LEU:CA	1.82	1.07
1:cy:102:GLU:HG3	1:nH:99:LEU:HD21	1.33	1.07
1:cV:102:GLU:CG	1:eV:99:LEU:CD2	2.19	1.07
1:dA:60:ARG:HD3	1:pd:99:LEU:CD2	1.85	1.07
1:dQ:99:LEU:CD2	1:oN:60:ARG:HD3	1.84	1.07
2:ek:62:GLN:HG3	2:mm:197:LYS:CE	1.85	1.07
1:eB:100:LYS:HG2	1:gB:100:LYS:HZ3	0.92	1.07
1:fg:60:ARG:HD3	1:nx:99:LEU:HD21	1.35	1.07
2:fr:197:LYS:CE	2:kF:62:GLN:HG3	1.85	1.07
1:ho:60:ARG:HD3	1:hD:99:LEU:HD21	1.35	1.07
2:jD:197:LYS:CE	2:IJ:62:GLN:HG3	1.85	1.07
1:kL:60:ARG:HD3	1:mV:99:LEU:HD21	1.35	1.07
1:lb:102:GLU:CG	1:nf:99:LEU:HG	1.84	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qi:61:ASP:HA	4:qo:33:SER:OG	1.52	1.07
2:ai:197:LYS:HZ1	1:nh:99:LEU:HA	1.19	1.06
2:az:188:MET:HE2	5:qH:54:GLN:OE1	1.55	1.06
1:aT:102:GLU:CG	1:pn:99:LEU:HG	1.84	1.06
1:bh:102:GLU:CG	1:je:99:LEU:HG	1.84	1.06
1:bJ:102:GLU:CG	1:lN:99:LEU:HG	1.84	1.06
2:bP:197:LYS:CE	2:lX:62:GLN:HG3	1.85	1.06
1:cf:102:GLU:CG	1:iH:99:LEU:CD2	2.19	1.06
1:ck:99:LEU:CD2	1:iq:60:ARG:HD3	1.85	1.06
1:ck:99:LEU:HD21	1:iq:60:ARG:HD3	1.35	1.06
2:cr:197:LYS:CE	2:lv:62:GLN:HG3	1.85	1.06
2:dh:197:LYS:CE	2:fo:62:GLN:HG3	1.85	1.06
1:dO:60:ARG:HD3	1:nL:99:LEU:CD2	1.84	1.06
1:eC:99:LEU:HD21	1:gO:102:GLU:HG3	1.33	1.06
1:fK:102:GLU:CG	1:kv:99:LEU:HG	1.84	1.06
2:gH:197:LYS:CE	2:pj:62:GLN:HG3	1.85	1.06
1:gP:100:LYS:HZ3	1:in:100:LYS:HG2	0.91	1.06
1:hq:99:LEU:CD2	1:kk:60:ARG:HD3	1.85	1.06
1:hE:70:GLY:HA2	6:qC:57:GLN:HB2	1.36	1.06
1:jd:100:LYS:HG2	1:jj:100:LYS:HZ3	0.91	1.06
1:jw:99:LEU:CD2	1:kZ:60:ARG:HD3	1.84	1.06
1:jZ:100:LYS:HZ3	1:ly:100:LYS:HG2	1.02	1.06
1:kL:60:ARG:HD3	1:mV:99:LEU:CD2	1.84	1.06
3:qf:61:ASP:CA	4:ql:33:SER:OG	2.02	1.06
5:qx:392:LEU:HD12	5:qz:400:TYR:CZ	1.85	1.06
6:qE:112:LEU:CG	6:qG:58:LEU:CD1	2.25	1.06
2:ax:62:GLN:HG3	2:gt:197:LYS:CE	1.85	1.06
1:aF:99:LEU:CD2	1:jW:60:ARG:HD3	1.84	1.06
1:bf:60:ARG:HD3	1:do:99:LEU:HD21	1.35	1.06
1:bU:60:ARG:HD3	1:iG:99:LEU:HD21	1.35	1.06
1:bW:102:GLU:CG	1:hM:99:LEU:HG	1.84	1.06
1:dZ:102:GLU:CG	1:nM:99:LEU:CD2	2.19	1.06
2:eh:197:LYS:HE2	1:er:100:LYS:N	1.02	1.06
1:eo:99:LEU:HG	1:nZ:102:GLU:CG	1.84	1.06
1:eq:60:ARG:HD3	1:gA:99:LEU:CD2	1.85	1.06
1:es:102:GLU:CG	1:nV:99:LEU:HG	1.84	1.06
1:eC:99:LEU:HG	1:gO:102:GLU:CG	1.84	1.06
1:fh:100:LYS:N	2:gD:197:LYS:HE2	1.02	1.06
1:gA:102:GLU:CG	1:oZ:99:LEU:HG	1.84	1.06
1:gM:60:ARG:HD3	1:lR:99:LEU:CD2	1.85	1.06
1:hz:99:LEU:HG	1:kN:102:GLU:CG	1.84	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hI:62:GLN:HG3	2:kU:197:LYS:HE2	1.32	1.06
2:ik:62:GLN:HG3	2:nE:197:LYS:CE	1.85	1.06
1:jY:102:GLU:CG	1:pP:99:LEU:HG	1.84	1.06
2:kf:197:LYS:CE	2:pZ:62:GLN:HG3	1.85	1.06
2:ko:32:LEU:HD21	5:qF:177:SER:HB2	1.34	1.06
1:kX:99:LEU:HD21	1:nj:102:GLU:HG3	1.33	1.06
2:lh:62:GLN:HG3	2:nq:197:LYS:CE	1.85	1.06
1:pp:60:ARG:HD3	1:pF:99:LEU:CD2	1.85	1.06
5:qv:394:ILE:HD11	5:qx:405:ILE:HG21	1.12	1.06
5:qx:394:ILE:HD12	5:qz:405:ILE:HG21	1.07	1.06
5:qB:394:ILE:HD12	5:qD:405:ILE:HG21	1.07	1.06
1:ae:102:GLU:CG	1:fs:99:LEU:HG	1.84	1.06
1:as:102:GLU:CG	1:gi:99:LEU:HG	1.84	1.06
2:aL:62:GLN:HG3	2:nc:197:LYS:CE	1.85	1.06
2:aZ:62:GLN:HG3	2:py:197:LYS:CE	1.85	1.06
1:bS:99:LEU:HD21	1:hQ:102:GLU:HG3	1.33	1.06
2:cd:197:LYS:HE2	2:hW:62:GLN:HG3	1.32	1.06
1:cw:60:ARG:HD3	1:cM:99:LEU:CD2	1.85	1.06
1:cw:60:ARG:HD3	1:cM:99:LEU:HD21	1.35	1.06
1:cI:99:LEU:HG	1:pF:102:GLU:CG	1.84	1.06
1:dC:99:LEU:HD21	1:eS:60:ARG:HD3	1.35	1.06
1:ee:99:LEU:HD21	1:nv:60:ARG:HD3	1.35	1.06
1:fg:60:ARG:HD3	1:nx:99:LEU:CD2	1.85	1.06
2:fQ:62:GLN:HG3	2:kG:197:LYS:CE	1.85	1.06
1:fW:60:ARG:HD3	1:ie:99:LEU:CD2	1.84	1.06
2:gf:197:LYS:CE	2:mz:62:GLN:HG3	1.85	1.06
1:gm:99:LEU:CD2	1:hO:60:ARG:HD3	1.84	1.06
1:hr:99:LEU:CD2	1:ku:102:GLU:CG	2.19	1.06
2:hv:62:GLN:HG3	2:jb:197:LYS:HE2	1.33	1.06
1:io:99:LEU:HG	1:on:102:GLU:CG	1.84	1.06
1:kw:99:LEU:CD2	1:lO:60:ARG:NH2	2.11	1.06
3:qf:63:GLN:HE21	4:qk:221:ASP:C	1.39	1.06
1:aP:99:LEU:HD21	1:pr:102:GLU:HG3	1.33	1.06
1:bf:60:ARG:HD3	1:do:99:LEU:CD2	1.84	1.06
2:bo:197:LYS:CE	2:jo:62:GLN:HG3	1.85	1.06
1:br:99:LEU:HD21	1:dC:102:GLU:HG3	1.33	1.06
1:bF:99:LEU:HD21	1:lR:102:GLU:HG3	1.33	1.06
2:bO:62:GLN:HG3	2:IY:197:LYS:CE	1.85	1.06
1:dk:99:LEU:HD21	1:km:102:GLU:HG3	1.33	1.06
2:dX:197:LYS:CE	2:jQ:62:GLN:HG3	1.85	1.06
1:fu:60:ARG:HD3	1:mf:99:LEU:HD21	1.35	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gY:99:LEU:HG	1:oB:102:GLU:CG	1.84	1.06
1:hc:99:LEU:CD2	1:lB:60:ARG:HD3	1.85	1.06
1:hc:102:GLU:CG	1:ox:99:LEU:HG	1.84	1.06
1:hD:102:GLU:CG	1:kJ:99:LEU:HG	1.84	1.06
2:hG:197:LYS:HZ1	1:kx:99:LEU:HA	1.19	1.06
2:hJ:197:LYS:CE	2:kT:62:GLN:HG3	1.85	1.06
1:is:102:GLU:CG	1:oj:99:LEU:HG	1.84	1.06
1:iS:60:ARG:HD3	1:ji:99:LEU:CD2	1.85	1.06
1:jU:99:LEU:HG	1:pT:102:GLU:CG	1.84	1.06
1:kx:60:ARG:HD3	1:kN:99:LEU:CD2	1.84	1.06
1:lD:99:LEU:CD2	1:mT:60:ARG:HD3	1.85	1.06
1:mr:60:ARG:HD3	1:oB:99:LEU:CD2	1.84	1.06
3:qi:65:GLY:HA3	4:qo:9:GLY:O	0.88	1.06
5:qp:394:ILE:HD11	5:qr:405:ILE:HG21	1.12	1.06
5:qp:405:ILE:HG21	5:qL:394:ILE:HD12	1.06	1.06
1:aa:99:LEU:HG	1:fw:102:GLU:CG	1.84	1.06
2:ah:197:LYS:HE2	1:oO:100:LYS:N	1.02	1.06
1:as:99:LEU:CD2	1:bH:60:ARG:HD3	1.84	1.06
1:aF:99:LEU:HD21	1:jW:60:ARG:HD3	1.35	1.06
1:aR:99:LEU:HA	2:jm:197:LYS:HZ1	1.16	1.06
2:ba:197:LYS:CE	2:px:62:GLN:HG3	1.85	1.06
1:bh:102:GLU:HG3	1:je:99:LEU:HD21	1.33	1.06
1:bv:102:GLU:CG	1:dy:99:LEU:HG	1.84	1.06
1:bF:99:LEU:HG	1:lR:102:GLU:CG	1.84	1.06
1:bS:99:LEU:HG	1:hQ:102:GLU:CG	1.84	1.06
1:dB:100:LYS:N	2:eX:197:LYS:HE2	1.02	1.06
2:dW:62:GLN:HG3	2:jR:197:LYS:CE	1.85	1.06
2:ez:197:LYS:CE	2:of:62:GLN:HG3	1.85	1.06
2:eN:197:LYS:CE	2:gU:62:GLN:HG3	1.85	1.06
2:fa:62:GLN:HG3	2:iN:197:LYS:CE	1.85	1.06
2:jD:197:LYS:HE2	2:lJ:62:GLN:HG3	1.32	1.06
1:jK:99:LEU:CD2	1:pD:60:ARG:HD3	1.84	1.06
2:li:197:LYS:CE	2:np:62:GLN:HG3	1.85	1.06
1:md:60:ARG:HD3	1:mt:99:LEU:CD2	1.85	1.06
1:mD:99:LEU:HD21	1:oP:102:GLU:HG3	1.33	1.06
1:mH:99:LEU:CD2	1:ol:60:ARG:HD3	1.84	1.06
2:mO:197:LYS:CE	2:oV:62:GLN:HG3	1.85	1.06
3:qh:84:TYR:CE1	6:qI:20:GLU:HG2	1.90	1.06
2:al:197:LYS:CE	2:fC:62:GLN:HG3	1.85	1.05
2:ay:197:LYS:CE	2:gs:62:GLN:HG3	1.85	1.05
1:aG:99:LEU:CD2	1:kh:102:GLU:CG	2.19	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aO:100:LYS:HG2	1:iV:100:LYS:HZ3	0.90	1.05
1:bJ:99:LEU:HD21	1:hB:60:ARG:HD3	1.35	1.05
1:dC:99:LEU:CD2	1:eS:60:ARG:HD3	1.85	1.05
1:ec:60:ARG:HD3	1:es:99:LEU:CD2	1.85	1.05
1:eG:99:LEU:CD2	1:gk:60:ARG:HD3	1.84	1.05
1:eG:102:GLU:CG	1:gK:99:LEU:HG	1.84	1.05
1:fU:99:LEU:HD21	1:mt:102:GLU:HG3	1.33	1.05
1:hc:102:GLU:HG3	1:ox:99:LEU:HD21	1.33	1.05
2:hg:197:LYS:HZ1	1:mr:99:LEU:HA	1.20	1.05
1:ho:60:ARG:HD3	1:hD:99:LEU:CD2	1.85	1.05
2:hx:189:LYS:CD	5:qx:51:GLU:HG3	1.85	1.05
1:ie:102:GLU:CG	1:nt:99:LEU:HG	1.84	1.05
1:is:99:LEU:CD2	1:jl:60:ARG:HD3	1.84	1.05
1:jY:99:LEU:HD21	1:ln:60:ARG:HD3	1.35	1.05
2:mN:62:GLN:HG3	2:oW:197:LYS:CE	1.85	1.05
5:qr:394:ILE:HD12	5:qt:405:ILE:HG21	1.07	1.05
5:qH:394:ILE:HD11	5:qJ:405:ILE:HG21	1.12	1.05
1:aR:60:ARG:HD3	1:bh:99:LEU:CD2	1.85	1.05
1:bJ:99:LEU:CD2	1:hB:60:ARG:HD3	1.84	1.05
1:cg:99:LEU:HD21	1:lp:102:GLU:HG3	1.33	1.05
1:ct:100:LYS:HG2	1:ps:100:LYS:HZ3	0.92	1.05
2:cB:197:LYS:HE2	1:cL:100:LYS:N	1.02	1.05
1:fu:60:ARG:HD3	1:mf:99:LEU:CD2	1.84	1.05
1:fK:99:LEU:CD2	1:lP:60:ARG:HD3	1.84	1.05
2:gG:62:GLN:HG3	2:pk:197:LYS:CE	1.85	1.05
1:ha:60:ARG:HD3	1:kz:99:LEU:CD2	1.85	1.05
2:hj:197:LYS:CE	2:oH:62:GLN:HG3	1.85	1.05
2:hx:96:LEU:HD21	5:qz:47:ARG:CD	1.81	1.05
2:hx:190:PRO:HD2	5:qx:47:ARG:HD3	1.05	1.05
1:jg:60:ARG:HD3	1:lp:99:LEU:CD2	1.84	1.05
1:jY:99:LEU:CD2	1:ln:60:ARG:HD3	1.85	1.05
2:ke:62:GLN:HG3	2:qa:197:LYS:CE	1.85	1.05
2:kC:197:LYS:HE2	1:kM:100:LYS:N	1.02	1.05
3:qd:61:ASP:HA	4:qn:33:SER:HB3	1.09	1.05
3:qe:60:ALA:O	4:qm:33:SER:OG	1.74	1.05
5:qt:394:ILE:HD12	5:qv:405:ILE:HG21	1.07	1.05
5:qJ:394:ILE:HD11	5:qL:405:ILE:HG21	1.12	1.05
2:cE:62:GLN:HG3	2:nS:197:LYS:CE	1.85	1.05
2:cF:197:LYS:CE	2:nR:62:GLN:HG3	1.85	1.05
1:cH:102:GLU:HG2	1:cN:99:LEU:HD23	1.39	1.05
2:cS:62:GLN:HG3	2:pM:197:LYS:CE	1.85	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dg:62:GLN:HG3	2:fp:197:LYS:CE	1.85	1.05
2:ey:62:GLN:HG3	2:og:197:LYS:CE	1.85	1.05
1:eG:102:GLU:HG3	1:gK:99:LEU:HD21	1.33	1.05
1:fi:99:LEU:CD2	1:gy:60:ARG:HD3	1.85	1.05
2:gH:197:LYS:HE2	2:pj:62:GLN:HG3	1.32	1.05
2:hi:62:GLN:HG3	2:oI:197:LYS:CE	1.85	1.05
2:hs:107:GLY:HA3	5:qB:177:SER:CA	1.86	1.05
2:hI:62:GLN:HG3	2:kU:197:LYS:CE	1.85	1.05
2:iw:197:LYS:HZ2	1:pR:100:LYS:N	1.55	1.05
1:lB:100:LYS:N	2:oF:197:LYS:HZ2	1.55	1.05
1:mD:99:LEU:HG	1:oP:102:GLU:CG	1.84	1.05
3:qf:61:ASP:C	4:ql:33:SER:HB2	1.81	1.05
3:qi:55:GLU:HB3	4:qo:223:ASN:ND2	1.70	1.05
5:qD:394:ILE:HD11	5:qF:405:ILE:HG21	1.11	1.05
5:qF:394:ILE:HD11	5:qH:405:ILE:HG21	1.12	1.05
5:qF:394:ILE:HD12	5:qH:405:ILE:HG21	1.06	1.05
2:ak:62:GLN:HG3	2:fD:197:LYS:CE	1.85	1.05
1:as:102:GLU:HG3	1:gi:99:LEU:HD21	1.33	1.05
2:az:103:MET:HG3	5:qJ:32:PHE:CD2	1.92	1.05
2:aM:197:LYS:CE	2:nb:62:GLN:HG3	1.85	1.05
2:bC:197:LYS:CE	2:dI:62:GLN:HG3	1.85	1.05
1:bU:60:ARG:HD3	1:iG:99:LEU:CD2	1.85	1.05
1:bW:99:LEU:CD2	1:dm:60:ARG:HD3	1.85	1.05
2:cc:62:GLN:HG3	2:hX:197:LYS:CE	1.85	1.05
1:ct:102:GLU:HG2	1:ps:99:LEU:HD23	1.39	1.05
1:cI:99:LEU:HD21	1:pF:102:GLU:HG3	1.33	1.05
1:dA:60:ARG:HD3	1:pd:99:LEU:HD21	1.35	1.05
2:el:197:LYS:CE	2:ml:62:GLN:HG3	1.85	1.05
1:gA:102:GLU:HG3	1:oZ:99:LEU:HD21	1.33	1.05
2:hx:95:ASN:CB	5:qz:47:ARG:HH21	1.59	1.05
1:jw:99:LEU:HD21	1:kZ:60:ARG:HD3	1.35	1.05
1:lb:99:LEU:CD2	1:mF:60:ARG:HD3	1.85	1.05
1:lb:99:LEU:HD21	1:mF:60:ARG:HD3	1.35	1.05
1:lE:99:LEU:HD23	1:ne:102:GLU:HG2	1.39	1.05
3:qi:65:GLY:HA2	4:qn:220:SER:N	1.72	1.05
4:qj:222:GLY:O	4:qk:8:TYR:OH	1.75	1.05
6:qu:112:LEU:HD21	6:qw:58:LEU:CG	1.75	1.05
5:qD:398:TRP:CZ2	5:qF:405:ILE:HD11	1.92	1.05
1:aU:99:LEU:HD23	1:iP:102:GLU:HG2	1.39	1.05
1:bd:99:LEU:HD21	1:ji:102:GLU:HG3	1.33	1.05
2:cq:62:GLN:HG3	2:lw:197:LYS:CE	1.85	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cK:60:ARG:HD3	1:eU:99:LEU:CD2	1.85	1.05
2:dv:197:LYS:CE	2:kr:62:GLN:HG3	1.85	1.05
1:dZ:102:GLU:HG2	1:nM:99:LEU:HD23	1.39	1.05
1:eH:100:LYS:HZ3	1:gv:100:LYS:HG2	0.88	1.05
1:fl:60:ARG:HD3	1:fY:99:LEU:CD2	1.85	1.05
2:hv:62:GLN:HG3	2:jb:197:LYS:CE	1.85	1.05
2:hw:197:LYS:CE	2:ja:62:GLN:HG3	1.85	1.05
2:il:197:LYS:CE	2:nD:62:GLN:HG3	1.85	1.05
2:jC:62:GLN:HG3	2:lK:197:LYS:CE	1.85	1.05
1:jZ:99:LEU:HD23	1:ly:102:GLU:HG2	1.39	1.05
1:mo:102:GLU:HG2	1:mu:99:LEU:HD23	1.39	1.05
3:qh:84:TYR:HE1	6:qI:20:GLU:HG2	1.17	1.05
5:qF:398:TRP:CZ2	5:qH:405:ILE:HD11	1.92	1.05
6:qG:112:LEU:CG	6:qI:58:LEU:CD1	2.24	1.05
5:qH:398:TRP:CZ2	5:qJ:405:ILE:HD11	1.92	1.05
2:cd:197:LYS:CE	2:hW:62:GLN:HG3	1.85	1.04
2:cT:197:LYS:CE	2:pL:62:GLN:HG3	1.85	1.04
2:du:62:GLN:HG3	2:ks:197:LYS:CE	1.85	1.04
1:ee:99:LEU:CD2	1:nv:60:ARG:HD3	1.84	1.04
2:ez:197:LYS:HE2	2:of:62:GLN:HG3	1.32	1.04
1:eH:99:LEU:HD23	1:gv:102:GLU:HG2	1.39	1.04
2:eM:62:GLN:HG3	2:gV:197:LYS:CE	1.85	1.04
2:fb:197:LYS:CE	2:iM:62:GLN:HG3	1.85	1.04
1:fj:100:LYS:HZ3	1:gJ:100:LYS:HG2	1.09	1.04
1:fx:99:LEU:HD23	1:ns:102:GLU:HG2	1.39	1.04
1:fx:100:LYS:HZ3	1:ns:100:LYS:HG2	0.89	1.04
1:fK:99:LEU:HD21	1:lP:60:ARG:HD3	1.35	1.04
2:fN:197:LYS:HE2	1:fX:100:LYS:N	1.02	1.04
2:ge:62:GLN:HG3	2:mA:197:LYS:CE	1.85	1.04
1:gX:102:GLU:HG2	1:lS:99:LEU:HD23	1.39	1.04
1:hy:102:GLU:HG2	1:hE:99:LEU:HD23	1.39	1.04
1:ia:99:LEU:HG	1:nx:102:GLU:CG	1.84	1.04
1:jr:100:LYS:CG	1:lq:100:LYS:HZ3	1.69	1.04
1:nU:102:GLU:HG2	1:oa:99:LEU:HD23	1.39	1.04
2:dg:62:GLN:HG3	2:fp:197:LYS:HE2	1.32	1.04
2:hs:182:LEU:CD1	5:qB:176:ASN:CA	2.36	1.04
1:iE:99:LEU:HA	2:pv:197:LYS:HZ1	1.19	1.04
1:jI:100:LYS:N	2:or:197:LYS:HZ1	1.55	1.04
2:ko:32:LEU:CD2	5:qF:177:SER:CA	2.20	1.04
1:kx:60:ARG:HD3	1:kN:99:LEU:HD21	1.35	1.04
1:mH:102:GLU:HG3	1:oL:99:LEU:HD21	1.33	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qg:66:GLN:H	4:qk:9:GLY:C	1.61	1.04
5:qp:394:ILE:HD12	5:qr:405:ILE:HG21	1.06	1.04
5:qB:398:TRP:CZ2	5:qD:405:ILE:HD11	1.92	1.04
2:bn:62:GLN:HG3	2:jp:197:LYS:CE	1.85	1.04
1:bq:100:LYS:CG	1:dp:100:LYS:HZ3	1.70	1.04
1:cu:99:LEU:HD21	1:nL:102:GLU:HG3	1.33	1.04
1:dM:99:LEU:HD21	1:jK:102:GLU:HG3	1.33	1.04
1:dR:99:LEU:HD23	1:oY:102:GLU:HG2	1.39	1.04
1:eU:102:GLU:HG3	1:iC:99:LEU:HD21	1.33	1.04
2:hx:95:ASN:HB3	5:qz:44:LYS:CA	1.87	1.04
1:it:99:LEU:HD23	1:jT:102:GLU:HG2	1.39	1.04
2:iy:62:GLN:HG3	2:ou:197:LYS:CE	1.85	1.04
1:jY:102:GLU:HG3	1:pP:99:LEU:HD21	1.33	1.04
2:ko:184:TYR:CE2	5:qH:30:LYS:HB3	1.92	1.04
2:kt:189:LYS:HD3	5:qD:34:GLN:CG	1.87	1.04
1:lC:100:LYS:N	2:mY:197:LYS:HE2	1.02	1.04
4:ql:222:GLY:O	4:qm:8:TYR:OH	1.75	1.04
5:qz:398:TRP:CZ2	5:qB:405:ILE:HD11	1.92	1.04
5:qJ:394:ILE:HD12	5:qL:405:ILE:HG21	1.07	1.04
1:at:69:ALA:HB1	6:qs:61:ALA:CB	1.88	1.04
2:aN:62:GLN:OE1	1:hm:103:ARG:O	1.76	1.04
1:aP:103:ARG:O	2:cs:62:GLN:OE1	1.76	1.04
1:bc:102:GLU:HG2	1:bi:99:LEU:HD23	1.39	1.04
2:bQ:62:GLN:OE1	1:gi:103:ARG:O	1.76	1.04
1:cl:100:LYS:HZ3	1:iB:100:LYS:CG	1.70	1.04
1:cH:100:LYS:HG2	1:cN:100:LYS:HZ3	0.90	1.04
2:di:62:GLN:OE1	1:dy:103:ARG:O	1.76	1.04
2:dW:62:GLN:OE1	1:hM:103:ARG:O	1.76	1.04
1:fs:103:ARG:O	2:oh:62:GLN:OE1	1.76	1.04
1:hr:99:LEU:HD23	1:ku:102:GLU:HG2	1.39	1.04
1:hB:100:LYS:N	2:IV:197:LYS:HZ2	1.55	1.04
2:hK:62:GLN:OE1	1:lN:103:ARG:O	1.76	1.04
1:kW:100:LYS:HG2	1:mW:100:LYS:HZ3	0.91	1.04
3:qf:66:GLN:H	4:ql:9:GLY:C	1.58	1.04
3:qi:55:GLU:CD	4:qo:223:ASN:HD22	1.66	1.04
5:qH:394:ILE:HD12	5:qJ:405:ILE:HG21	1.06	1.04
2:am:62:GLN:OE1	1:mD:103:ARG:O	1.76	1.04
2:az:62:GLN:OE1	1:dk:103:ARG:O	1.76	1.04
1:bd:103:ARG:O	2:jc:62:GLN:OE1	1.76	1.04
1:cY:99:LEU:HA	2:dG:197:LYS:HZ1	1.20	1.04
2:em:62:GLN:OE1	1:nV:103:ARG:O	1.76	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fg:100:LYS:N	2:ii:197:LYS:HZ2	1.55	1.04
1:fT:102:GLU:HG2	1:fZ:99:LEU:HD23	1.39	1.04
1:jx:99:LEU:HD23	1:lk:102:GLU:HG2	1.39	1.04
1:jF:102:GLU:HG2	1:pU:99:LEU:HD23	1.39	1.04
1:jG:103:ARG:O	2:oX:62:GLN:OE1	1.76	1.04
2:kt:111:GLY:CA	5:qD:178:PRO:CD	2.34	1.04
1:nH:103:ARG:O	2:pl:62:GLN:OE1	1.76	1.04
3:qg:61:ASP:CA	4:qk:33:SER:HB2	1.83	1.04
3:qh:55:GLU:CD	4:qj:223:ASN:HD22	1.66	1.04
6:qu:109:SER:OG	6:qw:53:HIS:HD2	1.40	1.04
1:at:100:LYS:HZ3	1:bR:100:LYS:HG2	0.87	1.03
1:aO:102:GLU:HG2	1:iV:99:LEU:HD23	1.39	1.03
2:bp:62:GLN:OE1	1:ki:103:ARG:O	1.76	1.03
2:bz:197:LYS:HZ2	1:eS:100:LYS:N	1.55	1.03
1:bW:99:LEU:HD21	1:dm:60:ARG:HD3	1.35	1.03
1:cf:102:GLU:HG2	1:iH:99:LEU:HD23	1.39	1.03
1:cg:103:ARG:O	2:jQ:62:GLN:OE1	1.76	1.03
2:cG:62:GLN:OE1	1:pB:103:ARG:O	1.76	1.03
1:cI:103:ARG:O	2:pz:62:GLN:OE1	1.76	1.03
1:dD:99:LEU:HD23	1:fd:102:GLU:HG2	1.39	1.03
1:dL:102:GLU:CG	1:pe:99:LEU:CD2	2.19	1.03
1:fx:99:LEU:CD2	1:ns:102:GLU:CG	2.19	1.03
2:hx:62:GLN:OE1	1:kJ:103:ARG:O	1.76	1.03
2:iz:197:LYS:CE	2:ot:62:GLN:HG3	1.85	1.03
2:iO:62:GLN:OE1	1:pn:103:ARG:O	1.76	1.03
3:qd:61:ASP:CA	4:qn:33:SER:HB2	1.85	1.03
4:qj:8:TYR:OH	4:qo:222:GLY:O	1.75	1.03
4:qm:222:GLY:O	4:qn:8:TYR:OH	1.75	1.03
5:qp:398:TRP:CZ2	5:qr:405:ILE:HD11	1.92	1.03
6:qE:109:SER:OG	6:qG:53:HIS:HD2	1.40	1.03
5:qJ:398:TRP:CZ2	5:qL:405:ILE:HD11	1.92	1.03
1:aa:99:LEU:HD21	1:fw:102:GLU:HG3	1.33	1.03
1:aU:100:LYS:HZ3	1:iP:100:LYS:HG2	0.87	1.03
1:bE:102:GLU:HG2	1:hR:99:LEU:HD23	1.39	1.03
1:bU:99:LEU:HA	2:eY:197:LYS:HZ1	1.16	1.03
1:cy:99:LEU:HD21	1:pb:60:ARG:HD3	1.35	1.03
1:cW:103:ARG:O	2:gI:62:GLN:OE1	1.76	1.03
2:hs:104:GLN:NE2	5:qB:179:ALA:HA	1.74	1.03
1:hz:103:ARG:O	2:kH:62:GLN:OE1	1.76	1.03
2:hF:104:GLN:CG	5:qx:176:ASN:OD1	2.06	1.03
2:jE:62:GLN:OE1	1:jU:103:ARG:O	1.76	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jS:62:GLN:OE1	1:oj:103:ARG:O	1.76	1.03
1:pA:102:GLU:HG2	1:pG:99:LEU:HD23	1.39	1.03
5:qp:405:ILE:HD11	5:qL:398:TRP:CZ2	1.92	1.03
5:qx:398:TRP:CZ2	5:qz:405:ILE:HD11	1.92	1.03
5:qB:394:ILE:HD11	5:qD:405:ILE:HG21	1.12	1.03
6:qC:109:SER:OG	6:qE:53:HIS:HD2	1.40	1.03
2:eA:62:GLN:OE1	1:oZ:103:ARG:O	1.76	1.03
2:hF:32:LEU:CD1	5:qv:178:PRO:HD2	1.80	1.03
1:io:103:ARG:O	2:qb:62:GLN:OE1	1.76	1.03
1:mF:99:LEU:HA	2:nn:197:LYS:HZ1	1.20	1.03
4:qk:222:GLY:O	4:ql:8:TYR:OH	1.75	1.03
5:qr:398:TRP:CZ2	5:qt:405:ILE:HD11	1.92	1.03
5:qv:398:TRP:CZ2	5:qx:405:ILE:HD11	1.92	1.03
6:qG:109:SER:OG	6:qI:53:HIS:HD2	1.40	1.03
1:aa:103:ARG:O	2:nr:62:GLN:OE1	1.76	1.03
2:au:170:TRP:HA	5:qJ:177:SER:HA	1.35	1.03
1:aB:103:ARG:O	2:kV:62:GLN:OE1	1.76	1.03
2:bQ:107:GLY:HA2	5:qp:176:ASN:ND2	1.72	1.03
1:cu:103:ARG:O	2:dY:62:GLN:OE1	1.76	1.03
1:cV:102:GLU:HG2	1:eV:99:LEU:HD23	1.39	1.03
1:dM:103:ARG:O	2:pN:62:GLN:OE1	1.76	1.03
1:eG:99:LEU:HD21	1:gk:60:ARG:HD3	1.35	1.03
1:fj:99:LEU:HD23	1:gJ:102:GLU:HG2	1.39	1.03
1:fF:102:GLU:HG2	1:mg:99:LEU:HD23	1.39	1.03
1:fU:99:LEU:CG	1:mt:102:GLU:CG	2.37	1.03
1:io:99:LEU:HD21	1:on:102:GLU:HG3	1.33	1.03
2:jO:197:LYS:HZ1	1:oN:99:LEU:HA	1.20	1.03
1:nJ:60:ARG:HD3	1:nZ:99:LEU:HD21	1.35	1.03
5:qv:394:ILE:HD12	5:qx:405:ILE:HG21	1.06	1.03
5:qz:394:ILE:HD12	5:qB:405:ILE:HG21	1.06	1.03
6:qA:109:SER:OG	6:qC:53:HIS:HD2	1.40	1.03
5:qD:394:ILE:HD12	5:qF:405:ILE:HG21	1.06	1.03
1:br:99:LEU:CG	1:dC:102:GLU:CG	2.37	1.03
1:br:103:ARG:O	2:fc:62:GLN:OE1	1.76	1.03
1:cz:99:LEU:HD23	1:pm:102:GLU:HG2	1.39	1.03
1:cM:102:GLU:OE2	1:pB:99:LEU:CD1	2.07	1.03
1:dm:99:LEU:HA	2:hU:197:LYS:HZ1	1.24	1.03
1:eo:99:LEU:CG	1:nZ:102:GLU:CG	2.37	1.03
1:eE:100:LYS:N	2:fm:197:LYS:HZ1	1.55	1.03
1:fG:99:LEU:CG	1:kz:102:GLU:CG	2.37	1.03
1:fG:103:ARG:O	2:hk:62:GLN:OE1	1.76	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fT:100:LYS:HG2	1:fZ:100:LYS:HZ3	0.89	1.03
1:gn:99:LEU:HD23	1:hZ:102:GLU:HG2	1.39	1.03
2:gu:62:GLN:OE1	1:gK:103:ARG:O	1.76	1.03
1:hq:102:GLU:CG	1:iQ:99:LEU:CG	2.37	1.03
2:hx:95:ASN:OD1	5:qz:47:ARG:NH2	1.92	1.03
1:is:102:GLU:HG3	1:oj:99:LEU:HG	1.41	1.03
1:jw:102:GLU:CG	1:lz:99:LEU:CG	2.37	1.03
1:jx:100:LYS:HZ3	1:lk:100:LYS:HG2	0.88	1.03
1:kX:99:LEU:CG	1:nj:102:GLU:CG	2.37	1.03
3:qf:61:ASP:HA	4:ql:33:SER:OG	1.58	1.03
3:qi:61:ASP:CA	4:qo:33:SER:OG	2.06	1.03
5:qt:398:TRP:CZ2	5:qv:405:ILE:HD11	1.92	1.03
6:qy:109:SER:OG	6:qA:53:HIS:HD2	1.40	1.03
1:aB:99:LEU:CG	1:mV:102:GLU:CG	2.37	1.02
1:aP:99:LEU:CG	1:pr:102:GLU:CG	2.37	1.02
1:aP:99:LEU:CD1	1:pr:102:GLU:OE2	2.07	1.02
1:bh:102:GLU:CG	1:je:99:LEU:CG	2.37	1.02
1:bK:99:LEU:HD23	1:hL:102:GLU:HG2	1.39	1.02
1:cu:99:LEU:CG	1:nL:102:GLU:CG	2.37	1.02
1:cI:99:LEU:CG	1:pF:102:GLU:CG	2.37	1.02
1:eo:103:ARG:O	2:nT:62:GLN:OE1	1.76	1.02
2:fS:62:GLN:OE1	1:mp:103:ARG:O	1.76	1.02
2:gg:62:GLN:OE1	1:nt:103:ARG:O	1.76	1.02
1:gX:100:LYS:HG2	1:lS:100:LYS:HZ3	0.88	1.02
1:hl:100:LYS:CG	1:kA:100:LYS:HZ3	1.72	1.02
1:hm:99:LEU:CD1	1:iU:102:GLU:OE2	2.07	1.02
2:hx:188:MET:HE1	5:qx:54:GLN:NE2	1.72	1.02
1:hz:99:LEU:HD21	1:kN:102:GLU:HG3	1.33	1.02
1:jd:102:GLU:HG2	1:jj:99:LEU:HD23	1.39	1.02
1:ju:99:LEU:HA	2:kc:197:LYS:HZ1	1.21	1.02
1:jL:99:LEU:HD23	1:pO:102:GLU:HG2	1.39	1.02
1:jU:99:LEU:CG	1:pT:102:GLU:CG	2.37	1.02
2:lx:62:GLN:OE1	1:pP:103:ARG:O	1.76	1.02
3:qf:66:GLN:C	4:ql:194:LEU:HD12	1.82	1.02
1:an:100:LYS:HG2	1:oQ:100:LYS:HZ3	0.86	1.02
1:bd:99:LEU:CD1	1:ji:102:GLU:OE2	2.07	1.02
1:bf:100:LYS:N	2:kp:197:LYS:HZ1	1.57	1.02
1:bJ:102:GLU:OE2	1:lN:99:LEU:CD1	2.07	1.02
1:ea:103:ARG:O	2:fE:62:GLN:OE1	1.76	1.02
1:fL:99:LEU:HD23	1:ma:102:GLU:HG2	1.39	1.02
1:gA:102:GLU:CG	1:oZ:99:LEU:CG	2.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hx:189:LYS:HE3	5:qx:51:GLU:CD	1.84	1.02
1:ia:99:LEU:CG	1:nx:102:GLU:CG	2.37	1.02
1:io:99:LEU:CD1	1:on:102:GLU:OE2	2.07	1.02
1:kl:102:GLU:HG2	1:ko:99:LEU:HD23	1.39	1.02
1:mH:102:GLU:CG	1:ol:99:LEU:CG	2.37	1.02
3:qe:63:GLN:NE2	4:ql:222:GLY:N	1.60	1.02
3:qf:25:LEU:HD21	6:qC:82:VAL:HB	1.39	1.02
3:qg:55:GLU:CG	4:qk:223:ASN:HD22	1.72	1.02
3:qh:84:TYR:CE1	6:qI:20:GLU:CG	2.41	1.02
4:qn:222:GLY:O	4:qo:8:TYR:OH	1.75	1.02
6:qq:109:SER:OG	6:qs:53:HIS:HD2	1.40	1.02
6:qI:109:SER:OG	6:qK:53:HIS:HD2	1.40	1.02
1:ac:100:LYS:N	2:mL:197:LYS:HZ1	1.58	1.02
1:bw:99:LEU:HD23	1:dj:102:GLU:HG2	1.39	1.02
2:bD:62:GLN:OE1	1:bS:103:ARG:O	1.76	1.02
1:bF:103:ARG:O	2:gW:62:GLN:OE1	1.76	1.02
1:bS:99:LEU:CD1	1:hQ:102:GLU:OE2	2.07	1.02
1:cy:102:GLU:OE2	1:nH:99:LEU:CD1	2.07	1.02
2:cC:197:LYS:HZ3	1:dO:99:LEU:HA	1.24	1.02
2:cU:62:GLN:OE1	1:iC:103:ARG:O	1.76	1.02
1:cW:99:LEU:CG	1:fi:102:GLU:CG	2.37	1.02
1:dk:99:LEU:CG	1:km:102:GLU:CG	2.37	1.02
1:do:102:GLU:OE2	1:ki:99:LEU:CD1	2.07	1.02
1:dQ:102:GLU:CG	1:jG:99:LEU:CG	2.37	1.02
2:dU:197:LYS:HZ1	1:pD:100:LYS:N	1.57	1.02
1:ec:60:ARG:HD3	1:es:99:LEU:HD21	1.35	1.02
1:es:102:GLU:OE2	1:nV:99:LEU:CD1	2.07	1.02
2:ew:197:LYS:HZ1	1:nJ:100:LYS:N	1.58	1.02
1:fK:102:GLU:OE2	1:kv:99:LEU:CD1	2.07	1.02
1:fU:99:LEU:CD1	1:mt:102:GLU:OE2	2.07	1.02
1:hc:102:GLU:CG	1:ox:99:LEU:CG	2.37	1.02
1:hD:102:GLU:CG	1:kJ:99:LEU:CG	2.37	1.02
1:is:102:GLU:OE2	1:oj:99:LEU:CD1	2.07	1.02
1:iQ:103:ARG:O	2:kt:62:GLN:OE1	1.76	1.02
1:js:103:ARG:O	2:nd:62:GLN:OE1	1.76	1.02
1:jY:102:GLU:OE2	1:pP:99:LEU:CD1	2.07	1.02
1:kW:102:GLU:HG2	1:mW:99:LEU:HD23	1.39	1.02
1:mI:99:LEU:HD23	1:ow:102:GLU:HG2	1.39	1.02
2:mP:62:GLN:OE1	1:nf:103:ARG:O	1.76	1.02
3:qg:61:ASP:O	4:qk:33:SER:HB2	1.58	1.02
6:qw:109:SER:OG	6:qy:53:HIS:HD2	1.40	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ao:99:LEU:CG	1:gm:102:GLU:CG	2.37	1.02
1:aA:102:GLU:HG2	1:kn:99:LEU:HD23	1.39	1.02
2:aX:197:LYS:HZ1	1:ci:99:LEU:HA	1.21	1.02
1:bF:99:LEU:CG	1:lR:102:GLU:CG	2.37	1.02
2:bL:107:GLY:C	5:qr:178:PRO:HG2	1.83	1.02
1:bS:99:LEU:CG	1:hQ:102:GLU:CG	2.37	1.02
1:bV:100:LYS:N	2:dr:197:LYS:HE2	1.02	1.02
1:bW:102:GLU:OE2	1:hM:99:LEU:CD1	2.07	1.02
1:bX:99:LEU:HD23	1:dx:102:GLU:HG2	1.39	1.02
1:cW:99:LEU:HG	1:fi:102:GLU:HG3	1.41	1.02
1:da:102:GLU:OE2	1:fe:99:LEU:CD1	2.07	1.02
2:du:61:GLY:O	1:km:103:ARG:CG	2.08	1.02
2:ei:197:LYS:HZ1	1:fu:99:LEU:HA	1.23	1.02
1:eG:102:GLU:CG	1:gK:99:LEU:CG	2.37	1.02
1:gh:100:LYS:HG2	1:if:100:LYS:HZ3	1.10	1.02
2:hx:184:TYR:HE2	5:qz:30:LYS:CB	1.72	1.02
2:iA:62:GLN:OE1	1:ll:103:ARG:O	1.76	1.02
2:iY:197:LYS:HZ1	1:kk:100:LYS:N	1.57	1.02
1:jU:99:LEU:CD1	1:pT:102:GLU:OE2	2.07	1.02
1:ol:99:LEU:HA	2:oT:197:LYS:HZ1	1.23	1.02
6:qq:53:HIS:HD2	6:qM:109:SER:OG	1.40	1.02
6:qs:109:SER:OG	6:qu:53:HIS:HD2	1.40	1.02
1:aQ:60:ARG:HD2	1:jf:99:LEU:HD13	1.42	1.02
1:bW:102:GLU:HG3	1:hM:99:LEU:HG	1.41	1.02
1:cg:99:LEU:CD1	1:lp:102:GLU:OE2	2.07	1.02
1:cu:99:LEU:CD1	1:nL:102:GLU:OE2	2.07	1.02
1:dM:99:LEU:CD1	1:jK:102:GLU:OE2	2.07	1.02
1:ee:102:GLU:OE2	1:mb:99:LEU:CD1	2.07	1.02
1:ef:100:LYS:HZ3	1:nG:100:LYS:HG2	0.90	1.02
1:eC:99:LEU:CG	1:gO:102:GLU:CG	2.37	1.02
2:fQ:61:GLY:O	1:kz:103:ARG:CG	2.08	1.02
1:fU:103:ARG:O	2:mn:62:GLN:OE1	1.76	1.02
1:gk:99:LEU:HA	2:gS:197:LYS:HZ1	1.21	1.02
1:gA:103:ARG:CG	2:pj:61:GLY:O	2.08	1.02
1:hd:99:LEU:HD23	1:lM:102:GLU:HG2	1.39	1.02
2:hK:183:ILE:N	5:qt:177:SER:CA	2.22	1.02
1:ie:102:GLU:CG	1:nt:99:LEU:CG	2.37	1.02
1:is:99:LEU:HD21	1:jl:60:ARG:HD3	1.35	1.02
1:jY:103:ARG:CG	2:pZ:61:GLY:O	2.08	1.02
1:kv:103:ARG:O	2:lZ:62:GLN:OE1	1.76	1.02
1:lb:102:GLU:CG	1:nf:99:LEU:CG	2.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mo:100:LYS:HG2	1:mu:100:LYS:HZ3	1.10	1.02
1:mD:99:LEU:CD1	1:oP:102:GLU:OE2	2.07	1.02
1:mH:102:GLU:OE2	1:oL:99:LEU:CD1	2.07	1.02
1:aa:99:LEU:CG	1:fw:102:GLU:CG	2.37	1.01
1:ab:60:ARG:HD2	1:mE:99:LEU:HD13	1.42	1.01
1:ae:102:GLU:CG	1:fs:99:LEU:CG	2.37	1.01
1:ao:103:ARG:O	2:hY:62:GLN:OE1	1.76	1.01
2:ax:61:GLY:O	1:gm:103:ARG:CG	2.08	1.01
1:aT:102:GLU:OE2	1:pn:99:LEU:CD1	2.07	1.01
1:br:99:LEU:CD1	1:dC:102:GLU:OE2	2.07	1.01
1:bv:102:GLU:OE2	1:dy:99:LEU:CD1	2.07	1.01
2:cq:61:GLY:O	1:lp:103:ARG:CG	2.08	1.01
2:cE:61:GLY:O	1:nL:103:ARG:CG	2.08	1.01
1:cI:99:LEU:CD1	1:pF:102:GLU:OE2	2.07	1.01
1:da:99:LEU:HD21	1:eE:60:ARG:HD3	1.35	1.01
1:db:100:LYS:HZ3	1:eP:100:LYS:CG	1.72	1.01
1:dL:102:GLU:HG2	1:pe:99:LEU:HD23	1.39	1.01
1:dQ:102:GLU:OE2	1:jG:99:LEU:CD1	2.07	1.01
1:ea:99:LEU:CD1	1:mf:102:GLU:OE2	2.07	1.01
1:eC:99:LEU:CD1	1:gO:102:GLU:OE2	2.07	1.01
1:eC:103:ARG:O	2:im:62:GLN:OE1	1.76	1.01
1:eQ:99:LEU:CD1	1:iG:102:GLU:OE2	2.07	1.01
1:fG:99:LEU:CD1	1:kz:102:GLU:OE2	2.07	1.01
1:fY:103:ARG:CG	2:mz:61:GLY:O	2.08	1.01
1:hD:102:GLU:OE2	1:kJ:99:LEU:CD1	2.07	1.01
1:ip:99:LEU:HD13	1:pQ:60:ARG:HD2	1.42	1.01
1:iD:60:ARG:HD2	1:po:99:LEU:HD13	1.42	1.01
2:kg:62:GLN:OE1	1:mR:103:ARG:O	1.76	1.01
2:ov:62:GLN:OE1	1:oL:103:ARG:O	1.76	1.01
3:qd:65:GLY:C	4:qn:10:GLN:HE21	1.66	1.01
6:qK:109:SER:OG	6:qM:53:HIS:HD2	1.40	1.01
1:ae:102:GLU:OE2	1:fs:99:LEU:CD1	2.07	1.01
2:az:183:ILE:CG2	5:qH:178:PRO:HB3	1.90	1.01
1:bh:103:ARG:CG	2:jo:61:GLY:O	2.08	1.01
1:bJ:102:GLU:CG	1:IN:99:LEU:CG	2.37	1.01
1:ck:102:GLU:CG	1:ll:99:LEU:CG	2.37	1.01
1:cM:103:ARG:CG	2:pL:61:GLY:O	2.08	1.01
1:da:103:ARG:CG	2:fo:61:GLY:O	2.08	1.01
2:dg:61:GLY:O	1:fi:103:ARG:CG	2.08	1.01
1:eq:99:LEU:HA	2:ph:197:LYS:HZ1	1.24	1.01
1:es:103:ARG:CG	2:of:61:GLY:O	2.08	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eQ:99:LEU:CG	1:iG:102:GLU:CG	2.37	1.01
1:fY:102:GLU:OE2	1:mp:99:LEU:CD1	2.07	1.01
1:gY:103:ARG:O	2:mB:62:GLN:OE1	1.76	1.01
2:hi:61:GLY:O	1:oB:103:ARG:CG	2.08	1.01
2:hv:61:GLY:O	1:iU:103:ARG:CG	2.08	1.01
1:hz:99:LEU:CD1	1:kN:102:GLU:OE2	2.07	1.01
1:io:99:LEU:CG	1:on:102:GLU:CG	2.37	1.01
1:kZ:100:LYS:N	2:lH:197:LYS:HZ2	1.59	1.01
1:lb:103:ARG:CG	2:np:61:GLY:O	2.08	1.01
2:lL:62:GLN:OE1	1:ox:103:ARG:O	1.76	1.01
1:nk:99:LEU:HD23	1:oK:102:GLU:HG2	1.39	1.01
3:qf:61:ASP:C	4:ql:33:SER:CB	2.33	1.01
3:qg:65:GLY:HA2	4:qj:220:SER:H	1.19	1.01
3:qh:63:GLN:NE2	4:qo:222:GLY:N	1.63	1.01
1:aa:99:LEU:CD1	1:fw:102:GLU:OE2	2.07	1.01
2:ak:61:GLY:O	1:fw:103:ARG:CG	2.08	1.01
1:ao:99:LEU:HD21	1:gm:102:GLU:HG3	1.33	1.01
1:at:99:LEU:HD23	1:bR:102:GLU:HG2	1.39	1.01
2:bb:62:GLN:OE1	1:je:103:ARG:O	1.76	1.01
2:bn:61:GLY:O	1:ji:103:ARG:CG	2.08	1.01
1:bv:102:GLU:CG	1:dy:99:LEU:CG	2.37	1.01
1:bv:103:ARG:CG	2:dI:61:GLY:O	2.08	1.01
2:cc:61:GLY:O	1:hQ:103:ARG:CG	2.08	1.01
1:cg:99:LEU:CG	1:lp:102:GLU:CG	2.37	1.01
1:cl:99:LEU:HD23	1:iB:102:GLU:HG2	1.39	1.01
1:cI:99:LEU:HG	1:pF:102:GLU:HG3	1.41	1.01
2:de:197:LYS:HZ2	1:gy:100:LYS:N	1.58	1.01
1:do:103:ARG:CG	2:kr:61:GLY:O	2.08	1.01
2:dW:61:GLY:O	1:jK:103:ARG:CG	2.08	1.01
1:ee:102:GLU:CG	1:mb:99:LEU:CG	2.37	1.01
1:eG:102:GLU:OE2	1:gK:99:LEU:CD1	2.07	1.01
1:eU:103:ARG:CG	2:iM:61:GLY:O	2.08	1.01
2:fa:61:GLY:O	1:iG:103:ARG:CG	2.08	1.01
2:fq:62:GLN:OE1	1:ia:103:ARG:O	1.76	1.01
1:hc:102:GLU:OE2	1:ox:99:LEU:CD1	2.07	1.01
2:hI:61:GLY:O	1:kN:103:ARG:CG	2.08	1.01
2:ik:61:GLY:O	1:nx:103:ARG:CG	2.08	1.01
1:is:102:GLU:CG	1:oj:99:LEU:CG	2.37	1.01
2:iy:61:GLY:O	1:on:103:ARG:CG	2.08	1.01
1:js:99:LEU:CD1	1:lD:102:GLU:OE2	2.07	1.01
1:jw:102:GLU:OE2	1:lz:99:LEU:CD1	2.07	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mN:61:GLY:O	1:oP:103:ARG:CG	2.08	1.01
1:oo:99:LEU:HD23	1:qc:102:GLU:HG2	1.39	1.01
3:qe:66:GLN:H	4:qm:10:GLN:HG2	1.24	1.01
1:ad:100:LYS:N	2:oc:197:LYS:HE2	1.02	1.01
1:an:102:GLU:HG2	1:oQ:99:LEU:HD23	1.39	1.01
1:as:102:GLU:OE2	1:gi:99:LEU:CD1	2.07	1.01
1:as:103:ARG:CG	2:gs:61:GLY:O	2.08	1.01
1:aT:103:ARG:CG	2:px:61:GLY:O	2.08	1.01
1:bh:102:GLU:OE2	1:je:99:LEU:CD1	2.07	1.01
1:bJ:103:ARG:CG	2:IX:61:GLY:O	2.08	1.01
2:ce:62:GLN:OE1	1:eQ:103:ARG:O	1.76	1.01
1:cf:100:LYS:CG	1:iH:100:LYS:HZ3	1.71	1.01
1:cM:102:GLU:CG	1:pB:99:LEU:CG	2.37	1.01
1:cW:99:LEU:CD1	1:f:102:GLU:OE2	2.07	1.01
1:db:99:LEU:HD23	1:eP:102:GLU:HG2	1.39	1.01
1:do:102:GLU:CG	1:ki:99:LEU:CG	2.37	1.01
1:en:102:GLU:HG2	1:et:99:LEU:HD23	1.39	1.01
2:ey:61:GLY:O	1:nZ:103:ARG:CG	2.08	1.01
1:eG:103:ARG:CG	2:gU:61:GLY:O	2.08	1.01
1:eU:102:GLU:CG	1:iC:99:LEU:CG	2.37	1.01
1:fK:103:ARG:CG	2:kF:61:GLY:O	2.08	1.01
1:gw:99:LEU:CD1	1:pd:102:GLU:OE2	2.07	1.01
1:hq:102:GLU:OE2	1:iQ:99:LEU:CD1	2.07	1.01
1:hz:99:LEU:CG	1:kN:102:GLU:CG	2.37	1.01
1:is:103:ARG:CG	2:ot:61:GLY:O	2.08	1.01
2:jA:197:LYS:HZ1	1:mT:100:LYS:N	1.58	1.01
2:ke:61:GLY:O	1:pT:103:ARG:CG	2.08	1.01
2:kt:111:GLY:N	5:qD:178:PRO:HD3	1.71	1.01
1:kX:103:ARG:O	2:oJ:62:GLN:OE1	1.76	1.01
1:lb:102:GLU:HG3	1:nf:99:LEU:HG	1.41	1.01
1:lb:102:GLU:OE2	1:nf:99:LEU:CD1	2.07	1.01
2:lh:61:GLY:O	1:nj:103:ARG:CG	2.08	1.01
1:mD:99:LEU:CG	1:oP:102:GLU:CG	2.37	1.01
1:af:99:LEU:HD23	1:oi:102:GLU:HG2	1.39	1.01
1:ao:99:LEU:CD1	1:gm:102:GLU:OE2	2.07	1.01
2:aL:61:GLY:O	1:mV:103:ARG:CG	2.08	1.01
1:aQ:99:LEU:HD13	1:ch:60:ARG:HD2	1.42	1.01
2:aZ:61:GLY:O	1:pr:103:ARG:CG	2.08	1.01
1:bG:60:ARG:HD2	1:gj:99:LEU:HD13	1.42	1.01
1:bW:102:GLU:CG	1:hM:99:LEU:CG	2.37	1.01
1:bW:103:ARG:CG	2:hW:61:GLY:O	2.08	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ck:102:GLU:OE2	1:ll:99:LEU:CD1	2.07	1.01
1:cK:100:LYS:N	2:iK:197:LYS:HZ1	1.58	1.01
2:cS:61:GLY:O	1:pF:103:ARG:CG	2.08	1.01
1:fY:102:GLU:CG	1:mp:99:LEU:CG	2.37	1.01
2:ge:61:GLY:O	1:mt:103:ARG:CG	2.08	1.01
2:gG:61:GLY:O	1:pd:103:ARG:CG	2.08	1.01
1:hl:102:GLU:HG2	1:kA:99:LEU:HD23	1.39	1.01
1:hD:103:ARG:CG	2:kT:61:GLY:O	2.08	1.01
1:ie:102:GLU:OE2	1:nt:99:LEU:CD1	2.07	1.01
1:ie:103:ARG:CG	2:nD:61:GLY:O	2.08	1.01
1:js:99:LEU:CG	1:lD:102:GLU:CG	2.37	1.01
1:jw:103:ARG:CG	2:lJ:61:GLY:O	2.08	1.01
2:lj:62:GLN:OE1	1:lz:103:ARG:O	1.76	1.01
3:qg:61:ASP:HA	4:qk:33:SER:HB3	1.01	1.01
1:ae:103:ARG:CG	2:fC:61:GLY:O	2.08	1.00
1:as:102:GLU:CG	1:gi:99:LEU:CG	2.37	1.00
1:aF:103:ARG:CG	2:nb:61:GLY:O	2.08	1.00
1:bc:100:LYS:CG	1:bi:100:LYS:HZ3	1.74	1.00
1:bq:102:GLU:HG2	1:dp:99:LEU:HD23	1.39	1.00
1:bF:99:LEU:CD1	1:lR:102:GLU:OE2	2.07	1.00
2:bL:107:GLY:O	5:qr:178:PRO:HG3	1.60	1.00
2:dK:62:GLN:OE1	1:gw:103:ARG:O	1.76	1.00
1:dM:99:LEU:CG	1:jK:102:GLU:CG	2.37	1.00
1:dQ:103:ARG:CG	2:jQ:61:GLY:O	2.08	1.00
1:ee:103:ARG:CG	2:ml:61:GLY:O	2.08	1.00
1:eU:102:GLU:OE2	1:iC:99:LEU:CD1	2.07	1.00
1:fK:102:GLU:CG	1:kv:99:LEU:CG	2.37	1.00
1:gA:102:GLU:OE2	1:oZ:99:LEU:CD1	2.07	1.00
1:gY:99:LEU:CG	1:oB:102:GLU:CG	2.37	1.00
2:hs:182:LEU:HD11	5:qB:176:ASN:CA	1.90	1.00
2:hx:95:ASN:CB	5:qz:47:ARG:CZ	2.35	1.00
2:hx:95:ASN:CG	5:qz:47:ARG:NH2	2.19	1.00
1:js:99:LEU:HG	1:lD:102:GLU:HG3	1.41	1.00
1:mb:103:ARG:O	2:nF:62:GLN:OE1	1.76	1.00
1:oo:100:LYS:HZ3	1:qc:100:LYS:HG2	0.86	1.00
2:av:197:LYS:HZ2	1:hO:100:LYS:N	1.59	1.00
1:aD:100:LYS:N	2:ht:197:LYS:HZ1	1.58	1.00
1:aT:102:GLU:CG	1:pn:99:LEU:CG	2.37	1.00
2:bl:197:LYS:HZ1	1:iS:99:LEU:HA	1.26	1.00
1:br:99:LEU:HG	1:dC:102:GLU:HG3	1.41	1.00
1:bs:60:ARG:HD2	1:bT:99:LEU:HD13	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bG:99:LEU:HD13	1:gL:60:ARG:HD2	1.42	1.00
1:ck:103:ARG:CG	2:lv:61:GLY:O	2.08	1.00
1:cy:102:GLU:CG	1:nH:99:LEU:CG	2.37	1.00
1:cy:103:ARG:CG	2:nR:61:GLY:O	2.08	1.00
1:dk:99:LEU:CD1	1:km:102:GLU:OE2	2.07	1.00
1:es:102:GLU:CG	1:nV:99:LEU:CG	2.37	1.00
1:ft:99:LEU:HD13	1:nW:60:ARG:HD2	1.42	1.00
1:gY:99:LEU:CD1	1:oB:102:GLU:OE2	2.07	1.00
2:hF:32:LEU:HD13	5:qv:178:PRO:HG2	1.14	1.00
1:ia:99:LEU:CD1	1:nx:102:GLU:OE2	2.07	1.00
1:lc:99:LEU:HD23	1:mQ:102:GLU:HG2	1.39	1.00
1:mC:102:GLU:HG2	1:oC:99:LEU:HD23	1.39	1.00
1:mH:103:ARG:CG	2:oV:61:GLY:O	2.08	1.00
2:nP:197:LYS:HZ2	1:pb:100:LYS:N	1.59	1.00
3:qf:65:GLY:C	4:ql:10:GLN:HE21	1.69	1.00
3:qi:66:GLN:N	4:qo:10:GLN:CG	2.24	1.00
6:qG:112:LEU:HD23	6:qI:58:LEU:CG	1.76	1.00
1:aF:102:GLU:OE2	1:mR:99:LEU:CD1	2.07	1.00
2:bB:61:GLY:O	1:dC:103:ARG:CG	2.08	1.00
1:cX:60:ARG:HD2	1:dz:99:LEU:HD13	1.42	1.00
2:eO:62:GLN:OE1	1:fe:103:ARG:O	1.76	1.00
1:gw:99:LEU:HG	1:pd:102:GLU:HG3	1.41	1.00
2:hx:96:LEU:CD2	5:qz:47:ARG:NE	2.16	1.00
1:jY:102:GLU:CG	1:pP:99:LEU:CG	2.37	1.00
2:ko:32:LEU:CD2	5:qF:177:SER:HB2	1.87	1.00
1:kI:100:LYS:HG2	1:kO:100:LYS:HZ3	1.15	1.00
3:qg:68:ALA:N	4:qk:8:TYR:CE2	2.29	1.00
2:au:104:GLN:NE2	5:qL:175:ASP:OD1	1.94	1.00
1:gw:99:LEU:CG	1:pd:102:GLU:CG	2.37	1.00
1:ho:99:LEU:HA	2:kR:197:LYS:HZ1	1.23	1.00
1:mI:100:LYS:HZ3	1:ow:100:LYS:HG2	1.20	1.00
1:da:102:GLU:CG	1:fe:99:LEU:CG	2.37	1.00
1:ff:60:ARG:HD2	1:ib:99:LEU:HD13	1.42	1.00
1:fr:102:GLU:HG2	1:ny:99:LEU:HD23	1.39	1.00
1:gY:99:LEU:HG	1:oB:102:GLU:HG3	1.41	1.00
1:hr:70:GLY:CA	6:qG:117:LYS:O	2.09	1.00
1:jt:60:ARG:HD2	1:jV:99:LEU:HD13	1.42	1.00
1:ab:99:LEU:HD13	1:ng:60:ARG:HD2	1.42	1.00
1:aB:99:LEU:CD1	1:mV:102:GLU:OE2	2.07	1.00
1:bd:99:LEU:CG	1:ji:102:GLU:CG	2.37	1.00
1:bt:99:LEU:HA	2:ca:197:LYS:HZ1	1.21	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cJ:60:ARG:HD2	1:iD:99:LEU:HD13	1.42	1.00
1:gP:99:LEU:HD23	1:in:102:GLU:HG2	1.39	1.00
1:kX:99:LEU:CD1	1:nj:102:GLU:OE2	2.07	1.00
1:kY:60:ARG:HD2	1:lA:99:LEU:HD13	1.42	1.00
1:mc:99:LEU:HD13	1:nu:60:ARG:HD2	1.42	1.00
1:ok:60:ARG:HD2	1:oM:99:LEU:HD13	1.42	1.00
3:qh:65:GLY:HA2	4:qo:220:SER:N	1.76	1.00
6:qI:112:LEU:HD23	6:qK:58:LEU:CG	1.75	1.00
1:aF:102:GLU:HG3	1:mR:99:LEU:HG	1.41	1.00
1:dz:60:ARG:HD2	1:gx:99:LEU:HD13	1.42	1.00
1:eo:99:LEU:CD1	1:nZ:102:GLU:OE2	2.07	1.00
1:eD:60:ARG:HD2	1:ff:99:LEU:HD13	1.42	1.00
2:fO:197:LYS:HZ1	1:ha:99:LEU:HA	1.21	1.00
2:hx:96:LEU:CD1	5:qz:47:ARG:HD2	1.90	1.00
2:hF:32:LEU:HD11	5:qv:178:PRO:HB2	1.44	1.00
3:qd:61:ASP:C	4:qn:33:SER:OG	2.05	1.00
3:qf:65:GLY:HA2	4:qk:220:SER:H	1.22	1.00
3:qg:61:ASP:HA	4:qk:33:SER:HB2	1.42	1.00
1:af:100:LYS:HZ3	1:oi:100:LYS:HG2	1.21	0.99
2:aX:60:ILE:HG22	1:iE:105:THR:CG2	1.92	0.99
1:bh:102:GLU:HG3	1:je:99:LEU:HG	1.41	0.99
1:cV:100:LYS:HG2	1:eV:100:LYS:HZ3	0.88	0.99
1:fH:99:LEU:HD13	1:gZ:60:ARG:HD2	1.42	0.99
1:gh:102:GLU:HG2	1:if:99:LEU:HD23	1.39	0.99
1:hq:103:ARG:CG	2:ja:61:GLY:O	2.08	0.99
1:ln:99:LEU:HA	2:pX:197:LYS:HZ1	1.22	0.99
1:be:60:ARG:HD2	1:kj:99:LEU:HD13	1.42	0.99
1:dL:100:LYS:CG	1:pe:100:LYS:HZ3	1.75	0.99
1:eB:102:GLU:HG2	1:gB:99:LEU:HD23	1.39	0.99
1:hm:99:LEU:CG	1:iU:102:GLU:CG	2.37	0.99
1:kY:99:LEU:HD13	1:oy:60:ARG:HD2	1.42	0.99
3:qf:55:GLU:CG	4:ql:223:ASN:HD22	1.74	0.99
3:qf:61:ASP:O	4:ql:33:SER:HB2	1.61	0.99
1:aD:60:ARG:HD3	1:iU:99:LEU:HD21	1.35	0.99
1:bH:99:LEU:HA	2:gq:197:LYS:HZ3	1.27	0.99
2:dU:60:ILE:HG22	1:oN:105:THR:CG2	1.93	0.99
2:eM:61:GLY:O	1:gO:103:ARG:CG	2.08	0.99
1:hc:103:ARG:CG	2:oH:61:GLY:O	2.08	0.99
2:ht:60:ILE:HG22	1:kk:105:THR:CG2	1.93	0.99
1:jr:102:GLU:HG2	1:lq:99:LEU:HD23	1.39	0.99
1:ju:105:THR:CG2	2:pX:60:ILE:HG22	1.93	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jC:61:GLY:O	1:lD:103:ARG:CG	2.08	0.99
1:jV:60:ARG:HD2	1:mS:99:LEU:HD13	1.42	0.99
2:lH:60:ILE:HG22	1:mT:105:THR:CG2	1.93	0.99
2:mL:60:ILE:HG22	1:ol:105:THR:CG2	1.93	0.99
2:az:103:MET:CG	5:qJ:32:PHE:CE2	2.45	0.99
2:bz:60:ILE:HG22	1:cY:105:THR:CG2	1.92	0.99
1:cw:105:THR:CG2	2:cQ:60:ILE:HG22	1.93	0.99
1:eb:99:LEU:HD13	1:ft:60:ARG:HD2	1.42	0.99
2:fm:60:ILE:HG22	1:gy:105:THR:CG2	1.92	0.99
2:gS:60:ILE:HG22	1:ic:105:THR:CG2	1.92	0.99
2:jO:60:ILE:HG22	1:pD:105:THR:CG2	1.93	0.99
1:nk:100:LYS:HZ3	1:oK:100:LYS:HG2	0.83	0.99
2:or:60:ILE:HG22	1:pR:105:THR:CG2	1.93	0.99
1:bf:105:THR:CG2	2:ds:60:ILE:HG22	1.93	0.99
1:bt:105:THR:CG2	2:hU:60:ILE:HG22	1.93	0.99
1:fH:60:ARG:HD2	1:mq:99:LEU:HD13	1.42	0.99
2:ko:181:PRO:HG3	5:qF:54:GLN:CB	1.92	0.99
1:kL:105:THR:CG2	2:mZ:60:ILE:HG22	1.93	0.99
1:nI:99:LEU:HD13	1:pa:60:ARG:HD2	1.42	0.99
3:qg:61:ASP:C	4:qk:33:SER:HB2	1.88	0.99
1:ci:105:THR:CG2	2:pv:60:ILE:HG22	1.93	0.99
1:cJ:99:LEU:HD13	1:po:60:ARG:HD2	1.42	0.99
1:cK:105:THR:CG2	2:eY:60:ILE:HG22	1.93	0.99
2:ek:61:GLY:O	1:mf:103:ARG:CG	2.08	0.99
1:eq:105:THR:CG2	2:gE:60:ILE:HG22	1.93	0.99
1:fG:99:LEU:HG	1:kz:102:GLU:HG3	1.41	0.99
1:iS:105:THR:CG2	2:jm:60:ILE:HG22	1.93	0.99
2:av:60:ILE:HG22	1:bH:105:THR:CG2	1.93	0.99
1:aD:105:THR:CG2	2:iY:60:ILE:HG22	1.93	0.99
2:bO:61:GLY:O	1:lR:103:ARG:CG	2.08	0.99
1:ea:99:LEU:CG	1:mf:102:GLU:CG	2.37	0.99
1:ef:99:LEU:HD23	1:nG:102:GLU:HG2	1.39	0.99
2:eK:60:ILE:HG22	1:gk:105:THR:CG2	1.93	0.99
1:fU:99:LEU:HG	1:mt:102:GLU:HG3	1.41	0.99
2:gq:60:ILE:HG22	1:hO:105:THR:CG2	1.93	0.99
1:hA:60:ARG:HD2	1:lO:99:LEU:HD13	1.42	0.99
1:jH:99:LEU:HD13	1:oM:60:ARG:HD2	1.42	0.99
2:mj:197:LYS:HZ2	1:nv:100:LYS:N	1.60	0.99
1:pp:105:THR:CG2	2:pJ:60:ILE:HG22	1.93	0.99
3:qf:65:GLY:C	4:ql:10:GLN:HG2	1.87	0.99
2:ca:60:ILE:HG22	1:dm:105:THR:CG2	1.93	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fA:60:ILE:HG22	1:nh:105:THR:CG2	1.93	0.99
1:fl:100:LYS:N	2:mx:197:LYS:HZ2	1.60	0.99
1:kX:99:LEU:HG	1:nj:102:GLU:HG3	1.41	0.99
1:aq:105:THR:CG2	2:kp:60:ILE:HG22	1.92	0.99
1:aT:102:GLU:HG3	1:pn:99:LEU:HG	1.41	0.99
1:bH:100:LYS:N	2:gq:197:LYS:HZ1	1.60	0.99
1:bK:70:GLY:HA3	6:qw:116:GLY:HA2	1.42	0.99
2:de:60:ILE:HG22	1:eE:105:THR:CG2	1.93	0.99
1:fu:105:THR:CG2	2:mj:60:ILE:HG22	1.92	0.99
1:fF:100:LYS:HG2	1:mg:100:LYS:HZ3	1.21	0.99
2:fO:60:ILE:HG22	1:lP:105:THR:CG2	1.92	0.99
1:fV:99:LEU:HD13	1:mc:60:ARG:HD2	1.42	0.99
1:hd:100:LYS:HZ1	1:lM:100:LYS:HG2	1.24	0.99
1:iq:99:LEU:HA	2:lt:197:LYS:HZ1	1.24	0.99
2:iw:60:ILE:HG22	1:jI:105:THR:CG2	1.93	0.99
1:lA:60:ARG:HD2	1:oy:99:LEU:HD13	1.42	0.99
2:nn:60:ILE:HG22	1:oz:105:THR:CG2	1.93	0.99
1:ap:60:ARG:HD2	1:dl:99:LEU:HD13	1.42	0.99
1:aP:99:LEU:HG	1:pr:102:GLU:HG3	1.41	0.99
2:bN:61:GLY:O	1:gL:103:ARG:CZ	2.11	0.99
1:eQ:99:LEU:HG	1:iG:102:GLU:HG3	1.41	0.99
1:fL:100:LYS:HZ3	1:ma:100:LYS:HG2	1.19	0.99
2:aJ:197:LYS:HZ2	1:kL:100:LYS:N	1.58	0.98
1:eD:99:LEU:HD13	1:ib:60:ARG:HD2	1.42	0.98
1:gn:99:LEU:HD21	1:hZ:102:GLU:HG2	0.99	0.98
1:mI:99:LEU:HD21	1:ow:102:GLU:HG2	0.99	0.98
1:nk:100:LYS:HZ3	1:oK:100:LYS:CG	1.76	0.98
2:nQ:61:GLY:O	1:pa:103:ARG:CZ	2.11	0.98
3:qe:61:ASP:HA	4:qm:33:SER:HB3	1.00	0.98
1:ae:102:GLU:HG3	1:fs:99:LEU:HG	1.41	0.98
2:aj:61:GLY:O	1:ng:103:ARG:CZ	2.11	0.98
1:aA:102:GLU:HG2	1:kn:99:LEU:HD21	0.99	0.98
1:aF:102:GLU:CG	1:mR:99:LEU:CG	2.37	0.98
2:aY:61:GLY:O	1:ch:103:ARG:CZ	2.12	0.98
1:cw:99:LEU:HA	2:pJ:197:LYS:HZ1	1.26	0.98
2:cR:61:GLY:O	1:po:103:ARG:CZ	2.12	0.98
1:jg:105:THR:CG2	2:lt:60:ILE:HG22	1.92	0.98
2:jA:60:ILE:HG22	1:kZ:105:THR:CG2	1.93	0.98
1:jW:100:LYS:N	2:mZ:197:LYS:HZ2	1.60	0.98
2:kc:60:ILE:HG22	1:ln:105:THR:CG2	1.92	0.98
1:mE:60:ARG:HD2	1:ng:99:LEU:HD13	1.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qf:64:GLY:O	4:qk:220:SER:O	1.80	0.98
1:ap:99:LEU:HD13	1:hN:60:ARG:HD2	1.42	0.98
1:aq:99:LEU:HA	2:ds:197:LYS:HZ1	1.27	0.98
1:aq:100:LYS:N	2:ds:197:LYS:HZ2	1.60	0.98
2:aJ:60:ILE:HG22	1:jW:105:THR:CG2	1.93	0.98
1:bU:105:THR:CG2	2:iK:60:ILE:HG22	1.93	0.98
1:dl:60:ARG:HD2	1:hN:99:LEU:HD13	1.42	0.98
2:ei:60:ILE:HG22	1:nv:105:THR:CG2	1.93	0.98
1:hn:103:ARG:CZ	2:kS:61:GLY:O	2.11	0.98
1:hA:99:LEU:HD13	1:kw:60:ARG:HD2	1.42	0.98
1:it:100:LYS:HZ3	1:jT:100:LYS:HG2	1.20	0.98
3:qe:66:GLN:N	4:qm:10:GLN:CG	2.25	0.98
1:at:99:LEU:HD21	1:bR:102:GLU:HG2	0.99	0.98
1:aC:103:ARG:CZ	2:hu:61:GLY:O	2.11	0.98
1:aG:99:LEU:HD23	1:kh:102:GLU:HG2	1.39	0.98
2:co:60:ILE:HG22	1:iq:105:THR:CG2	1.93	0.98
1:eG:102:GLU:HG3	1:gK:99:LEU:HG	1.41	0.98
1:ip:103:ARG:CZ	2:lu:61:GLY:O	2.12	0.98
2:iZ:61:GLY:O	1:kj:103:ARG:CZ	2.11	0.98
1:jx:99:LEU:HD21	1:lk:102:GLU:HG2	0.99	0.98
1:kx:105:THR:CG2	2:kR:60:ILE:HG22	1.93	0.98
2:lf:60:ILE:HG22	1:mF:105:THR:CG2	1.93	0.98
1:bq:102:GLU:HG2	1:dp:99:LEU:HD21	0.99	0.98
2:cC:60:ILE:HG22	1:pb:105:THR:CG2	1.93	0.98
2:eK:197:LYS:HZ1	1:ic:100:LYS:N	1.60	0.98
2:hh:61:GLY:O	1:mq:103:ARG:CZ	2.12	0.98
1:iD:103:ARG:CZ	2:pw:61:GLY:O	2.11	0.98
1:mr:105:THR:CG2	2:oF:60:ILE:HG22	1.93	0.98
1:aR:105:THR:CG2	2:bl:60:ILE:HG22	1.93	0.98
2:bM:60:ILE:HG22	1:hB:105:THR:CG2	1.93	0.98
1:cw:100:LYS:N	2:pJ:197:LYS:HZ2	1.61	0.98
1:dD:99:LEU:HD21	1:fd:102:GLU:HG2	0.99	0.98
1:dO:105:THR:CG2	2:nP:60:ILE:HG22	1.92	0.98
1:ec:105:THR:CG2	2:ew:60:ILE:HG22	1.93	0.98
1:fV:103:ARG:CZ	2:nC:61:GLY:O	2.12	0.98
1:fY:102:GLU:HG3	1:mp:99:LEU:HG	1.41	0.98
1:jd:102:GLU:HG2	1:jj:99:LEU:HD21	0.98	0.98
1:jY:102:GLU:HG3	1:pP:99:LEU:HG	1.41	0.98
2:ko:104:GLN:NE2	5:qH:27:GLY:CA	2.27	0.98
2:kE:61:GLY:O	1:lO:103:ARG:CZ	2.11	0.98
1:ac:105:THR:CG2	2:oT:60:ILE:HG22	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bT:60:ARG:HD2	1:eR:99:LEU:HD13	1.42	0.98
1:cX:99:LEU:HD13	1:gx:60:ARG:HD2	1.42	0.98
1:cX:103:ARG:CZ	2:dH:61:GLY:O	2.12	0.98
1:dz:103:ARG:CZ	2:gF:61:GLY:O	2.11	0.98
1:fr:102:GLU:HG2	1:ny:99:LEU:HD21	0.99	0.98
1:ha:105:THR:CG2	2:kD:60:ILE:HG22	1.93	0.98
1:bs:99:LEU:HD13	1:eR:60:ARG:HD2	1.42	0.98
2:bA:61:GLY:O	1:eR:103:ARG:CZ	2.12	0.98
1:cv:103:ARG:CZ	2:pK:61:GLY:O	2.12	0.98
1:eC:99:LEU:HG	1:gO:102:GLU:HG3	1.41	0.98
1:gM:105:THR:CG2	2:lV:60:ILE:HG22	1.93	0.98
1:jV:103:ARG:CZ	2:na:61:GLY:O	2.11	0.98
1:kY:103:ARG:CZ	2:ll:61:GLY:O	2.12	0.98
1:lm:60:ARG:HD2	1:pQ:99:LEU:HD13	1.42	0.98
1:mo:102:GLU:HG2	1:mu:99:LEU:HD21	0.99	0.98
1:an:102:GLU:HG2	1:oQ:99:LEU:HD21	0.99	0.98
2:aw:61:GLY:O	1:hN:103:ARG:CZ	2.11	0.98
1:bX:100:LYS:HZ3	1:dx:100:LYS:CG	1.76	0.98
2:cQ:197:LYS:HZ2	1:pp:100:LYS:N	1.60	0.98
1:dA:105:THR:CG2	2:ph:60:ILE:HG22	1.93	0.98
1:ia:99:LEU:HG	1:nx:102:GLU:HG3	1.41	0.98
1:kw:99:LEU:HD13	1:lO:60:ARG:HD2	1.42	0.98
1:lA:103:ARG:CZ	2:oG:61:GLY:O	2.11	0.98
2:aK:61:GLY:O	1:kK:103:ARG:CZ	2.11	0.98
1:cz:100:LYS:HZ1	1:pm:100:LYS:CG	1.76	0.98
2:dG:60:ILE:HG22	1:eS:105:THR:CG2	1.93	0.98
1:ea:99:LEU:HG	1:mf:102:GLU:HG3	1.41	0.98
1:fl:99:LEU:HA	2:mx:197:LYS:HZ1	1.27	0.98
1:fW:105:THR:CG2	2:ii:60:ILE:HG22	1.93	0.98
2:hs:104:GLN:HE21	5:qB:179:ALA:CA	1.77	0.98
1:jH:60:ARG:HD2	1:ok:99:LEU:HD13	1.42	0.98
1:nJ:105:THR:CG2	2:od:60:ILE:HG22	1.93	0.98
3:qf:66:GLN:HG3	4:ql:194:LEU:H	1.18	0.98
5:qB:239:TYR:OH	6:qE:123:ASN:HB3	1.64	0.98
2:bm:61:GLY:O	1:iR:103:ARG:CZ	2.11	0.97
1:bs:103:ARG:CZ	2:cb:61:GLY:O	2.11	0.97
1:cH:102:GLU:HG2	1:cN:99:LEU:HD21	0.99	0.97
1:cJ:103:ARG:CZ	2:iL:61:GLY:O	2.11	0.97
1:da:102:GLU:HG3	1:fe:99:LEU:HG	1.41	0.97
1:dA:100:LYS:N	2:gE:197:LYS:HZ2	1.61	0.97
1:fx:99:LEU:HD21	1:ns:102:GLU:HG2	0.99	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fB:61:GLY:O	1:nW:103:ARG:CZ	2.12	0.97
1:fl:105:THR:CG2	2:gc:60:ILE:HG22	1.93	0.97
1:hd:99:LEU:HD21	1:lM:102:GLU:HG2	0.99	0.97
1:ho:105:THR:CG2	2:hG:60:ILE:HG22	1.93	0.97
2:hs:181:PRO:HG3	5:qB:58:GLN:OE1	1.61	0.97
2:bQ:107:GLY:O	5:qp:176:ASN:CB	2.12	0.97
1:dN:99:LEU:HD13	1:pC:60:ARG:HD2	1.42	0.97
1:dZ:102:GLU:HG2	1:nM:99:LEU:HD21	0.99	0.97
2:ex:61:GLY:O	1:nI:103:ARG:CZ	2.11	0.97
2:hg:60:ILE:HG22	1:lB:105:THR:CG2	1.93	0.97
1:hn:60:ARG:HD2	1:kK:99:LEU:HD13	1.42	0.97
2:jB:61:GLY:O	1:mS:103:ARG:CZ	2.12	0.97
1:jZ:99:LEU:HD21	1:ly:102:GLU:HG2	0.99	0.97
3:qh:61:ASP:HA	4:qj:33:SER:OG	1.62	0.97
5:qt:398:TRP:CZ2	5:qv:405:ILE:CD1	2.48	0.97
1:db:99:LEU:HD21	1:eP:102:GLU:HG2	0.99	0.97
1:ef:99:LEU:HD21	1:nG:102:GLU:HG2	0.99	0.97
1:eD:103:ARG:CZ	2:fn:61:GLY:O	2.11	0.97
1:ff:103:ARG:CZ	2:ij:61:GLY:O	2.12	0.97
1:fg:105:THR:CG2	2:nB:60:ILE:HG22	1.93	0.97
1:iq:100:LYS:N	2:lt:197:LYS:HZ2	1.62	0.97
2:ix:61:GLY:O	1:pQ:103:ARG:CZ	2.11	0.97
1:jL:99:LEU:HD21	1:pO:102:GLU:HG2	0.99	0.97
2:kt:182:LEU:HD22	5:qD:178:PRO:CD	1.93	0.97
1:md:105:THR:CG2	2:mx:60:ILE:HG22	1.93	0.97
5:qr:398:TRP:CZ2	5:qt:405:ILE:CD1	2.48	0.97
5:qv:398:TRP:CZ2	5:qx:405:ILE:CD1	2.48	0.97
5:qx:398:TRP:CZ2	5:qz:405:ILE:CD1	2.48	0.97
5:qF:239:TYR:OH	6:qI:123:ASN:HB3	1.64	0.97
5:qF:394:ILE:HD12	5:qH:405:ILE:CG2	1.88	0.97
1:bT:103:ARG:CZ	2:eZ:61:GLY:O	2.11	0.97
1:ck:102:GLU:HG3	1:ll:99:LEU:HG	1.41	0.97
1:cv:60:ARG:HD2	1:pC:99:LEU:HD13	1.42	0.97
1:fV:60:ARG:HD2	1:nu:99:LEU:HD13	1.42	0.97
2:lf:197:LYS:HZ2	1:oz:100:LYS:N	1.62	0.97
3:qe:61:ASP:C	4:qm:33:SER:OG	2.06	0.97
3:qh:66:GLN:H	4:qj:9:GLY:C	1.72	0.97
1:bG:103:ARG:CZ	2:gr:61:GLY:O	2.12	0.97
1:cl:99:LEU:HD21	1:iB:102:GLU:HG2	0.99	0.97
2:cD:61:GLY:O	1:dN:103:ARG:CZ	2.11	0.97
2:df:61:GLY:O	1:gx:103:ARG:CZ	2.11	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ej:61:GLY:O	1:ft:103:ARG:CZ	2.12	0.97
1:ep:60:ARG:HD2	1:pa:99:LEU:HD13	1.42	0.97
1:fT:102:GLU:HG2	1:fZ:99:LEU:HD21	0.99	0.97
1:gX:102:GLU:HG2	1:lS:99:LEU:HD21	0.98	0.97
2:hs:104:GLN:NE2	5:qB:165:PRO:HG2	1.78	0.97
1:pA:102:GLU:HG2	1:pG:99:LEU:HD21	0.99	0.97
5:qz:398:TRP:CZ2	5:qB:405:ILE:CD1	2.48	0.97
2:bl:197:LYS:HZ2	1:iS:100:LYS:N	1.61	0.97
1:bw:100:LYS:HZ3	1:dj:100:LYS:HG2	1.19	0.97
2:dV:61:GLY:O	1:pC:103:ARG:CZ	2.12	0.97
1:eb:103:ARG:CZ	2:oe:61:GLY:O	2.11	0.97
1:gj:103:ARG:CZ	2:gT:61:GLY:O	2.11	0.97
2:hs:107:GLY:C	5:qB:177:SER:HA	1.88	0.97
2:hx:189:LYS:CD	5:qx:51:GLU:CG	2.43	0.97
2:hH:61:GLY:O	1:kw:103:ARG:CZ	2.12	0.97
1:jt:103:ARG:CZ	2:kd:61:GLY:O	2.11	0.97
2:jP:61:GLY:O	1:oM:103:ARG:CZ	2.11	0.97
1:lm:103:ARG:CZ	2:pY:61:GLY:O	2.12	0.97
3:qe:65:GLY:C	4:qm:10:GLN:HE21	1.71	0.97
1:ch:99:LEU:HD13	1:jf:60:ARG:HD2	1.42	0.97
2:cC:197:LYS:HZ1	1:dO:100:LYS:N	1.62	0.97
1:eq:100:LYS:N	2:ph:197:LYS:HZ2	1.62	0.97
1:fu:105:THR:HG21	2:mj:60:ILE:CG2	1.95	0.97
2:fP:61:GLY:O	1:gZ:103:ARG:CZ	2.12	0.97
1:jg:105:THR:HG21	2:lt:60:ILE:CG2	1.95	0.97
3:qh:61:ASP:O	4:qj:33:SER:HB2	1.63	0.97
1:af:99:LEU:HD21	1:oi:102:GLU:HG2	0.99	0.97
2:ai:60:ILE:HG22	1:nX:105:THR:CG2	1.93	0.97
2:av:60:ILE:CG2	1:bH:105:THR:HG21	1.95	0.97
1:aR:105:THR:HG21	2:bl:60:ILE:CG2	1.95	0.97
1:be:103:ARG:CZ	2:kq:61:GLY:O	2.12	0.97
1:bX:99:LEU:HD21	1:dx:102:GLU:HG2	0.99	0.97
2:de:60:ILE:CG2	1:eE:105:THR:HG21	1.95	0.97
1:dm:100:LYS:N	2:hU:197:LYS:HZ2	1.62	0.97
2:eL:61:GLY:O	1:ib:103:ARG:CZ	2.11	0.97
1:ho:105:THR:HG21	2:hG:60:ILE:CG2	1.95	0.97
2:hs:107:GLY:HA3	5:qB:177:SER:HA	1.45	0.97
1:ip:60:ARG:HD2	1:lm:99:LEU:HD13	1.42	0.97
1:iR:99:LEU:HD13	1:kj:60:ARG:HD2	1.42	0.97
2:kD:197:LYS:HZ2	1:lP:100:LYS:N	1.61	0.97
2:lf:197:LYS:HZ1	1:oz:99:LEU:HA	1.24	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mE:103:ARG:CZ	2:no:61:GLY:O	2.11	0.97
2:nn:60:ILE:CG2	1:oz:105:THR:HG21	1.95	0.97
1:ol:100:LYS:N	2:oT:197:LYS:HZ2	1.63	0.97
1:ac:105:THR:HG21	2:oT:60:ILE:CG2	1.95	0.97
1:aQ:103:ARG:CZ	2:jn:61:GLY:O	2.12	0.97
1:bw:99:LEU:HD21	1:dj:102:GLU:HG2	0.99	0.97
2:bz:60:ILE:CG2	1:cY:105:THR:HG21	1.95	0.97
2:dU:60:ILE:CG2	1:oN:105:THR:HG21	1.95	0.97
1:eb:60:ARG:HD2	1:nW:99:LEU:HD13	1.42	0.97
2:ei:197:LYS:HZ2	1:fu:100:LYS:N	1.63	0.97
1:ha:105:THR:HG21	2:kD:60:ILE:CG2	1.95	0.97
1:jt:99:LEU:HD13	1:mS:60:ARG:HD2	1.42	0.97
1:ok:103:ARG:CZ	2:oU:61:GLY:O	2.12	0.97
5:qp:398:TRP:CZ2	5:qr:405:ILE:CD1	2.48	0.97
5:qB:398:TRP:CZ2	5:qD:405:ILE:CD1	2.48	0.97
1:ab:103:ARG:CZ	2:mM:61:GLY:O	2.11	0.97
1:bf:105:THR:HG21	2:ds:60:ILE:CG2	1.95	0.97
1:bE:102:GLU:HG2	1:hR:99:LEU:HD21	0.98	0.97
2:co:60:ILE:CG2	1:iq:105:THR:HG21	1.95	0.97
1:cK:105:THR:HG21	2:eY:60:ILE:CG2	1.95	0.97
1:jH:103:ARG:CZ	2:os:61:GLY:O	2.11	0.97
1:pA:100:LYS:CG	1:pG:100:LYS:HZ3	1.77	0.97
3:qg:64:GLY:C	4:qj:219:ILE:CG2	2.37	0.97
4:qj:218:LEU:HB3	4:qk:189:TYR:CE2	2.00	0.97
1:bc:100:LYS:HG2	1:bi:100:LYS:HZ3	0.81	0.96
1:fH:103:ARG:CZ	2:my:61:GLY:O	2.12	0.96
1:hA:103:ARG:CZ	2:lW:61:GLY:O	2.12	0.96
1:lc:99:LEU:HD21	1:mQ:102:GLU:HG2	0.98	0.96
1:nJ:105:THR:HG21	2:od:60:ILE:CG2	1.95	0.96
2:or:60:ILE:CG2	1:pR:105:THR:HG21	1.95	0.96
3:qd:64:GLY:O	4:qm:220:SER:C	2.08	0.96
3:qe:61:ASP:C	4:qm:33:SER:CB	2.38	0.96
4:qj:189:TYR:CE2	4:qo:218:LEU:HB3	2.00	0.96
4:qm:218:LEU:HB3	4:qn:189:TYR:CE2	2.00	0.96
1:aC:99:LEU:HD13	1:kK:60:ARG:HD2	1.42	0.96
1:dl:103:ARG:CZ	2:hV:61:GLY:O	2.11	0.96
1:dA:105:THR:HG21	2:ph:60:ILE:CG2	1.95	0.96
1:eH:99:LEU:HD21	1:gv:102:GLU:HG2	0.99	0.96
2:eK:197:LYS:HZ3	1:ic:99:LEU:HA	1.28	0.96
2:ko:31:TYR:HE2	5:qF:178:PRO:CG	1.78	0.96
3:qe:55:GLU:CD	4:qm:223:ASN:ND2	2.21	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qf:64:GLY:C	4:qk:219:ILE:CG2	2.38	0.96
3:qg:66:GLN:CA	4:qk:10:GLN:HG2	1.95	0.96
1:aq:105:THR:HG21	2:kp:60:ILE:CG2	1.95	0.96
2:aX:60:ILE:CG2	1:iE:105:THR:HG21	1.95	0.96
1:cg:99:LEU:HG	1:lp:102:GLU:HG3	1.41	0.96
1:ee:102:GLU:HG3	1:mb:99:LEU:HG	1.41	0.96
2:ht:60:ILE:CG2	1:kk:105:THR:HG21	1.95	0.96
1:hy:102:GLU:HG2	1:hE:99:LEU:HD21	0.99	0.96
1:it:99:LEU:HD21	1:jT:102:GLU:HG2	0.98	0.96
2:kD:197:LYS:HZ1	1:lP:99:LEU:HA	1.25	0.96
1:mr:105:THR:HG21	2:oF:60:ILE:CG2	1.95	0.96
5:qp:239:TYR:OH	6:qs:123:ASN:HB3	1.64	0.96
1:ap:103:ARG:CZ	2:dt:61:GLY:O	2.12	0.96
1:dO:105:THR:HG21	2:nP:60:ILE:CG2	1.95	0.96
1:fF:102:GLU:HG2	1:mg:99:LEU:HD21	0.99	0.96
1:ie:102:GLU:HG3	1:nt:99:LEU:HG	1.41	0.96
1:nk:99:LEU:HD21	1:oK:102:GLU:HG2	0.99	0.96
5:qp:392:LEU:HD13	5:qr:400:TYR:OH	1.66	0.96
5:qp:405:ILE:CD1	5:qL:398:TRP:CZ2	2.48	0.96
5:qH:239:TYR:OH	6:qK:123:ASN:HB3	1.64	0.96
1:aD:105:THR:HG21	2:iY:60:ILE:CG2	1.95	0.96
1:bt:105:THR:HG21	2:hU:60:ILE:CG2	1.95	0.96
1:dL:100:LYS:HG2	1:pe:100:LYS:HZ3	0.82	0.96
1:dR:99:LEU:HD21	1:oY:102:GLU:HG2	0.99	0.96
1:ep:99:LEU:HD13	1:nI:60:ARG:HD2	1.42	0.96
2:gd:61:GLY:O	1:mc:103:ARG:CZ	2.11	0.96
2:hs:107:GLY:CA	5:qB:177:SER:HA	1.95	0.96
2:lg:61:GLY:O	1:oy:103:ARG:CZ	2.11	0.96
3:qd:65:GLY:HA2	4:qm:220:SER:N	1.80	0.96
6:qq:123:ASN:HB3	5:qL:239:TYR:OH	1.64	0.96
5:qx:239:TYR:OH	6:qA:123:ASN:HB3	1.64	0.96
5:qJ:394:ILE:HD12	5:qL:405:ILE:CG2	1.88	0.96
1:aC:60:ARG:HD2	1:hn:99:LEU:HD13	1.42	0.96
2:cp:61:GLY:O	1:jf:103:ARG:CZ	2.11	0.96
1:ep:103:ARG:CZ	2:pi:61:GLY:O	2.11	0.96
1:eq:105:THR:HG21	2:gE:60:ILE:CG2	1.95	0.96
1:eB:102:GLU:HG2	1:gB:99:LEU:HD21	0.99	0.96
2:fm:60:ILE:CG2	1:gy:105:THR:HG21	1.95	0.96
2:hg:60:ILE:CG2	1:lB:105:THR:HG21	1.95	0.96
1:hl:102:GLU:HG2	1:kA:99:LEU:HD21	0.99	0.96
1:ho:100:LYS:N	2:kR:197:LYS:HZ2	1.63	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ju:105:THR:HG21	2:pX:60:ILE:CG2	1.95	0.96
2:JA:60:ILE:CG2	1:kZ:105:THR:HG21	1.95	0.96
2:jO:60:ILE:CG2	1:pD:105:THR:HG21	1.95	0.96
3:qe:25:LEU:HD21	6:qy:82:VAL:CB	1.95	0.96
3:qg:65:GLY:N	4:qj:219:ILE:HG23	1.80	0.96
4:ql:218:LEU:HB3	4:qm:189:TYR:CE2	2.00	0.96
5:qz:239:TYR:OH	6:qC:123:ASN:HB3	1.64	0.96
5:qD:398:TRP:CZ2	5:qF:405:ILE:CD1	2.48	0.96
5:qH:398:TRP:CZ2	5:qJ:405:ILE:CD1	2.48	0.96
2:ai:60:ILE:CG2	1:nX:105:THR:HG21	1.95	0.96
1:aG:99:LEU:HD21	1:kh:102:GLU:HG2	0.99	0.96
1:cz:100:LYS:HZ1	1:pm:100:LYS:HG2	1.12	0.96
1:cV:102:GLU:HG2	1:eV:99:LEU:HD21	0.99	0.96
1:en:102:GLU:HG2	1:et:99:LEU:HD21	0.99	0.96
2:fO:60:ILE:CG2	1:lP:105:THR:HG21	1.95	0.96
1:hr:99:LEU:HD21	1:ku:102:GLU:HG2	0.99	0.96
2:hK:103:MET:HE2	5:qt:54:GLN:O	1.65	0.96
1:kL:105:THR:HG21	2:mZ:60:ILE:CG2	1.95	0.96
2:mk:61:GLY:O	1:nu:103:ARG:CZ	2.11	0.96
1:pp:105:THR:HG21	2:pJ:60:ILE:CG2	1.95	0.96
3:qf:55:GLU:CD	4:ql:223:ASN:ND2	2.21	0.96
1:dL:102:GLU:HG2	1:pe:99:LEU:HD21	0.99	0.96
1:fW:105:THR:HG21	2:ii:60:ILE:CG2	1.95	0.96
1:gj:60:ARG:HD2	1:gL:99:LEU:HD13	1.42	0.96
1:gZ:99:LEU:HD13	1:mq:60:ARG:HD2	1.42	0.96
2:ko:32:LEU:HD12	5:qF:175:ASP:O	1.65	0.96
2:lf:60:ILE:CG2	1:mF:105:THR:HG21	1.95	0.96
3:qe:65:GLY:H	4:qm:10:GLN:CD	1.73	0.96
3:qi:64:GLY:O	4:qn:220:SER:C	2.09	0.96
3:qi:68:ALA:N	4:qo:8:TYR:CE2	2.27	0.96
5:qt:239:TYR:OH	6:qw:123:ASN:HB3	1.64	0.96
1:aO:102:GLU:HG2	1:iV:99:LEU:HD21	0.99	0.96
1:cf:100:LYS:HG2	1:iH:100:LYS:HZ3	0.79	0.96
1:fg:105:THR:HG21	2:nB:60:ILE:CG2	1.95	0.96
1:jr:102:GLU:HG2	1:lq:99:LEU:HD21	0.99	0.96
3:qg:64:GLY:C	4:qj:219:ILE:HG22	1.91	0.96
4:qn:218:LEU:HB3	4:qo:189:TYR:CE2	2.00	0.96
5:qJ:398:TRP:CZ2	5:qL:405:ILE:CD1	2.48	0.96
2:bM:60:ILE:CG2	1:hB:105:THR:HG21	1.95	0.96
1:cz:99:LEU:HD21	1:pm:102:GLU:HG2	0.99	0.96
2:dG:60:ILE:CG2	1:eS:105:THR:HG21	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fL:99:LEU:HD21	1:ma:102:GLU:HG2	0.99	0.96
2:gq:60:ILE:CG2	1:hO:105:THR:HG21	1.95	0.96
1:ju:100:LYS:N	2:kc:197:LYS:HZ2	1.64	0.96
1:nU:102:GLU:HG2	1:oa:99:LEU:HD21	0.98	0.96
3:qf:66:GLN:N	4:ql:9:GLY:C	2.14	0.96
3:qg:66:GLN:HG3	4:qk:194:LEU:N	1.69	0.96
5:qp:400:TYR:OH	5:qL:392:LEU:HD13	1.66	0.96
5:qF:398:TRP:CZ2	5:qH:405:ILE:CD1	2.48	0.96
5:qJ:392:LEU:HD13	5:qL:400:TYR:OH	1.66	0.96
2:ei:60:ILE:CG2	1:nv:105:THR:HG21	1.95	0.95
2:hK:182:LEU:O	5:qt:178:PRO:CA	1.92	0.95
1:jI:99:LEU:C	2:or:197:LYS:HZ1	1.74	0.95
1:oo:100:LYS:HZ3	1:qc:100:LYS:CG	1.79	0.95
3:qg:63:GLN:HE22	4:qj:222:GLY:H	1.07	0.95
4:qk:218:LEU:HB3	4:ql:189:TYR:CE2	2.00	0.95
5:qp:392:LEU:CD1	5:qr:400:TYR:CE1	2.49	0.95
5:qv:239:TYR:OH	6:qy:123:ASN:HB3	1.64	0.95
5:qD:239:TYR:OH	6:qG:123:ASN:HB3	1.64	0.95
1:be:99:LEU:HD13	1:iR:60:ARG:HD2	1.42	0.95
1:bK:99:LEU:HD21	1:hL:102:GLU:HG2	0.99	0.95
1:bX:100:LYS:HZ3	1:dx:100:LYS:HG2	0.82	0.95
1:ct:102:GLU:HG2	1:ps:99:LEU:HD21	0.99	0.95
2:cC:60:ILE:CG2	1:pb:105:THR:HG21	1.95	0.95
2:fA:60:ILE:CG2	1:nh:105:THR:HG21	1.95	0.95
2:gS:60:ILE:CG2	1:ic:105:THR:HG21	1.95	0.95
1:hl:100:LYS:HG2	1:kA:100:LYS:HZ3	0.79	0.95
2:iw:60:ILE:CG2	1:jI:105:THR:HG21	1.95	0.95
2:lH:60:ILE:CG2	1:mT:105:THR:HG21	1.95	0.95
3:qf:68:ALA:HB2	4:ql:8:TYR:CZ	2.00	0.95
3:qi:68:ALA:HB2	4:qn:222:GLY:O	1.65	0.95
5:qr:239:TYR:OH	6:qu:123:ASN:HB3	1.64	0.95
5:qF:53:GLU:OE2	5:qH:35:HIS:NE2	2.00	0.95
1:bU:105:THR:HG21	2:iK:60:ILE:CG2	1.95	0.95
1:ci:105:THR:HG21	2:pv:60:ILE:CG2	1.95	0.95
1:kZ:99:LEU:HA	2:lH:197:LYS:HZ1	1.31	0.95
3:qd:65:GLY:H	4:qn:10:GLN:CD	1.73	0.95
5:qt:392:LEU:HD13	5:qv:400:TYR:OH	1.66	0.95
5:qB:392:LEU:HD13	5:qD:400:TYR:OH	1.65	0.95
1:aU:99:LEU:HD21	1:iP:102:GLU:HG2	0.99	0.95
1:bc:102:GLU:HG2	1:bi:99:LEU:HD21	0.98	0.95
1:bv:102:GLU:HG3	1:dy:99:LEU:HG	1.41	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ca:60:ILE:CG2	1:dm:105:THR:HG21	1.95	0.95
2:hF:32:LEU:CD1	5:qv:178:PRO:CA	2.43	0.95
2:hF:32:LEU:HD12	5:qv:178:PRO:CD	1.95	0.95
1:jw:102:GLU:HG3	1:lz:99:LEU:HG	1.41	0.95
1:mC:102:GLU:HG2	1:oc:99:LEU:HD21	0.99	0.95
2:mL:60:ILE:CG2	1:ol:105:THR:HG21	1.95	0.95
1:fl:105:THR:HG21	2:gc:60:ILE:CG2	1.95	0.95
2:aJ:60:ILE:CG2	1:jW:105:THR:HG21	1.95	0.95
1:cv:99:LEU:HD13	1:dN:60:ARG:HD2	1.42	0.95
1:ec:105:THR:HG21	2:ew:60:ILE:CG2	1.95	0.95
2:hs:104:GLN:NE2	5:qB:179:ALA:CA	2.28	0.95
2:ko:181:PRO:HG3	5:qF:54:GLN:HB3	0.96	0.95
3:qe:66:GLN:C	4:qm:194:LEU:CD1	2.35	0.95
5:qp:405:ILE:HD11	5:qL:398:TRP:CH2	2.02	0.95
5:qB:398:TRP:CH2	5:qD:405:ILE:HD11	2.02	0.95
2:eK:60:ILE:CG2	1:gk:105:THR:HG21	1.95	0.95
2:hF:182:LEU:HD21	5:qx:30:LYS:HB3	1.49	0.95
5:qJ:239:TYR:OH	6:qM:123:ASN:HB3	1.64	0.95
1:an:100:LYS:CG	1:oQ:100:LYS:HZ3	1.79	0.95
1:gh:102:GLU:HG2	1:if:99:LEU:HD21	0.99	0.95
2:hX:189:LYS:HE3	5:qx:51:GLU:CG	1.95	0.95
1:iS:105:THR:HG21	2:jm:60:ILE:CG2	1.95	0.95
2:jC:107:GLY:HA2	2:jC:184:TYR:OH	1.67	0.95
1:jF:102:GLU:HG2	1:pU:99:LEU:HD21	0.99	0.95
3:qh:61:ASP:CA	4:qj:33:SER:OG	2.13	0.95
5:qp:35:HIS:NE2	5:qL:53:GLU:OE2	2.00	0.95
5:qp:400:TYR:CE1	5:qL:392:LEU:CD1	2.49	0.95
5:qH:392:LEU:HD13	5:qJ:400:TYR:OH	1.66	0.95
2:aj:197:LYS:HD3	1:op:99:LEU:O	1.67	0.95
1:cw:105:THR:HG21	2:cQ:60:ILE:CG2	1.95	0.95
1:fK:99:LEU:O	2:lW:197:LYS:HD3	1.67	0.95
2:fO:197:LYS:HZ2	1:ha:100:LYS:N	1.65	0.95
1:gM:105:THR:HG21	2:IV:60:ILE:CG2	1.95	0.95
1:hr:70:GLY:HA3	6:qG:117:LYS:O	1.67	0.95
2:hK:183:ILE:H	5:qt:177:SER:HA	1.25	0.95
3:qf:55:GLU:HB3	4:ql:223:ASN:ND2	1.82	0.95
4:ql:218:LEU:HB3	4:qm:189:TYR:HE2	1.32	0.95
5:qr:398:TRP:CH2	5:qt:405:ILE:HD11	2.02	0.95
5:qx:398:TRP:CH2	5:qz:405:ILE:HD11	2.02	0.95
5:qD:53:GLU:OE2	5:qF:35:HIS:NE2	1.99	0.95
1:at:100:LYS:HZ3	1:bR:100:LYS:CG	1.80	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aU:99:LEU:CD2	1:iP:102:GLU:CD	2.40	0.95
2:cb:197:LYS:HD3	1:iG:99:LEU:O	1.67	0.95
2:cp:197:LYS:HD3	1:pr:99:LEU:O	1.67	0.95
1:cz:99:LEU:CD2	1:pm:102:GLU:CD	2.40	0.95
1:da:99:LEU:O	2:eL:197:LYS:HD3	1.67	0.95
2:eM:107:GLY:HA2	2:eM:184:TYR:OH	1.67	0.95
2:fn:197:LYS:HD3	1:nx:99:LEU:O	1.67	0.95
1:gP:99:LEU:CD2	1:in:102:GLU:CD	2.40	0.95
2:iy:107:GLY:HA2	2:iy:184:TYR:OH	1.67	0.95
1:jU:99:LEU:HG	1:pT:102:GLU:HG3	1.41	0.95
2:kc:60:ILE:CG2	1:ln:105:THR:HG21	1.95	0.95
2:kS:197:LYS:HD3	1:mV:99:LEU:O	1.67	0.95
1:lb:99:LEU:O	2:mM:197:LYS:HD3	1.67	0.95
1:ct:102:GLU:CD	1:ps:99:LEU:CD2	2.40	0.94
1:dA:99:LEU:HA	2:gE:197:LYS:HZ1	1.26	0.94
2:ej:197:LYS:HD3	1:es:99:LEU:O	1.67	0.94
1:fr:100:LYS:HG2	1:ny:100:LYS:HZ3	1.23	0.94
2:fB:197:LYS:HD3	1:mf:99:LEU:O	1.67	0.94
1:fK:102:GLU:HG3	1:kv:99:LEU:HG	1.41	0.94
1:hc:102:GLU:HG3	1:ox:99:LEU:HG	1.41	0.94
1:kI:102:GLU:HG2	1:kO:99:LEU:HD21	0.99	0.94
1:kW:102:GLU:HG2	1:mW:99:LEU:HD21	0.99	0.94
1:ln:100:LYS:N	2:pX:197:LYS:HZ2	1.63	0.94
1:md:105:THR:HG21	2:mx:60:ILE:CG2	1.95	0.94
1:mo:102:GLU:CD	1:mu:99:LEU:CD2	2.40	0.94
1:nk:99:LEU:CD2	1:oK:102:GLU:CD	2.40	0.94
2:np:107:GLY:HA2	2:np:184:TYR:OH	1.67	0.94
3:qg:65:GLY:C	4:qk:10:GLN:HG2	1.92	0.94
5:qr:392:LEU:HD13	5:qt:400:TYR:OH	1.66	0.94
5:qv:392:LEU:HD13	5:qx:400:TYR:OH	1.66	0.94
5:qz:392:LEU:HD13	5:qB:400:TYR:OH	1.66	0.94
2:ax:107:GLY:HA2	2:ax:184:TYR:OH	1.67	0.94
2:dg:107:GLY:HA2	2:dg:184:TYR:OH	1.67	0.94
2:dW:107:GLY:HA2	2:dW:184:TYR:OH	1.67	0.94
1:dZ:102:GLU:CD	1:nM:99:LEU:CD2	2.40	0.94
1:fL:99:LEU:CD2	1:ma:102:GLU:CD	2.40	0.94
2:kT:107:GLY:HA2	2:kT:184:TYR:OH	1.67	0.94
2:lh:107:GLY:HA2	2:lh:184:TYR:OH	1.67	0.94
2:mz:107:GLY:HA2	2:mz:184:TYR:OH	1.67	0.94
2:nD:107:GLY:HA2	2:nD:184:TYR:OH	1.67	0.94
1:oo:99:LEU:CD2	1:qc:102:GLU:CD	2.40	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oo:99:LEU:HD21	1:qc:102:GLU:HG2	0.99	0.94
2:pj:107:GLY:HA2	2:pj:184:TYR:OH	1.67	0.94
3:qg:55:GLU:CB	4:qk:223:ASN:ND2	2.30	0.94
3:qh:61:ASP:CA	4:qj:33:SER:HB2	1.96	0.94
5:qD:392:LEU:HD13	5:qF:400:TYR:OH	1.66	0.94
5:qF:398:TRP:CH2	5:qH:405:ILE:HD11	2.02	0.94
5:qH:53:GLU:OE2	5:qJ:35:HIS:NE2	2.00	0.94
5:qH:398:TRP:CH2	5:qJ:405:ILE:HD11	2.02	0.94
1:an:102:GLU:CD	1:oQ:99:LEU:CD2	2.40	0.94
2:az:183:ILE:HG12	5:qH:178:PRO:CB	1.96	0.94
2:aZ:107:GLY:HA2	2:aZ:184:TYR:OH	1.67	0.94
2:cc:107:GLY:HA2	2:cc:184:TYR:OH	1.67	0.94
2:dI:107:GLY:HA2	2:dI:184:TYR:OH	1.67	0.94
1:dQ:99:LEU:O	2:oU:197:LYS:HD3	1.67	0.94
2:fQ:107:GLY:HA2	2:fQ:184:TYR:OH	1.67	0.94
2:gd:197:LYS:HD3	1:ie:99:LEU:O	1.67	0.94
2:hh:197:LYS:HD3	1:kg:99:LEU:O	1.67	0.94
1:hl:102:GLU:CD	1:kA:99:LEU:CD2	2.40	0.94
1:jL:99:LEU:CD2	1:pO:102:GLU:CD	2.40	0.94
2:ml:107:GLY:HA2	2:ml:184:TYR:OH	1.67	0.94
3:qd:25:LEU:HD21	6:qu:82:VAL:HB	1.49	0.94
5:qz:398:TRP:CH2	5:qB:405:ILE:HD11	2.02	0.94
5:qJ:53:GLU:OE2	5:qL:35:HIS:NE2	2.00	0.94
1:ae:99:LEU:O	2:oe:197:LYS:HD3	1.67	0.94
1:as:99:LEU:O	2:bN:197:LYS:HD3	1.67	0.94
2:aw:197:LYS:HD3	1:km:99:LEU:O	1.67	0.94
1:bw:100:LYS:HZ3	1:dj:100:LYS:CG	1.80	0.94
1:cf:102:GLU:HG2	1:iH:99:LEU:HD21	0.99	0.94
1:cf:102:GLU:CD	1:iH:99:LEU:CD2	2.40	0.94
2:cQ:197:LYS:HZ1	1:pp:99:LEU:HA	1.28	0.94
1:ff:102:GLU:CD	1:mg:99:LEU:CD2	2.40	0.94
1:gP:99:LEU:HD21	1:in:102:GLU:HG2	0.99	0.94
2:hg:197:LYS:HZ2	1:mr:100:LYS:N	1.65	0.94
2:JA:197:LYS:HZ3	1:mT:99:LEU:HA	1.32	0.94
1:jY:99:LEU:O	2:lu:197:LYS:HD3	1.67	0.94
2:kr:107:GLY:HA2	2:kr:184:TYR:OH	1.67	0.94
2:nP:197:LYS:HZ1	1:pb:99:LEU:HA	1.29	0.94
2:nR:107:GLY:HA2	2:nR:184:TYR:OH	1.67	0.94
3:qf:55:GLU:CG	4:ql:223:ASN:ND2	2.30	0.94
3:qg:61:ASP:C	4:qk:33:SER:CB	2.39	0.94
5:qt:398:TRP:CH2	5:qv:405:ILE:HD11	2.02	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ak:107:GLY:HA2	2:ak:184:TYR:OH	1.67	0.94
2:aJ:197:LYS:HZ1	1:kL:99:LEU:HA	1.32	0.94
2:aX:197:LYS:HZ2	1:ci:100:LYS:N	1.64	0.94
1:bW:99:LEU:O	2:dt:197:LYS:HD3	1.67	0.94
1:db:99:LEU:CD2	1:eP:102:GLU:CD	2.40	0.94
1:dD:99:LEU:CD2	1:fd:102:GLU:CD	2.40	0.94
2:gT:197:LYS:HD3	1:lR:99:LEU:O	1.67	0.94
1:lc:99:LEU:CD2	1:mQ:102:GLU:CD	2.40	0.94
1:mI:99:LEU:CD2	1:ow:102:GLU:CD	2.40	0.94
1:nj:99:LEU:O	2:oG:197:LYS:HD3	1.67	0.94
1:nU:102:GLU:CD	1:oa:99:LEU:CD2	2.40	0.94
3:qd:61:ASP:HA	4:qn:33:SER:HB2	1.47	0.94
4:qn:218:LEU:HB3	4:qo:189:TYR:HE2	1.32	0.94
5:qp:53:GLU:OE2	5:qr:35:HIS:NE2	2.00	0.94
5:qz:53:GLU:OE2	5:qB:35:HIS:NE2	2.00	0.94
5:qz:252:LEU:CD2	6:qC:126:GLN:CG	2.46	0.94
5:qD:398:TRP:CH2	5:qF:405:ILE:HD11	2.02	0.94
2:av:197:LYS:HZ1	1:hO:99:LEU:HA	1.29	0.94
2:bn:107:GLY:HA2	2:bn:184:TYR:OH	1.67	0.94
2:bB:107:GLY:HA2	2:bB:184:TYR:OH	1.67	0.94
1:cl:99:LEU:CD2	1:iB:102:GLU:CD	2.40	0.94
2:cq:107:GLY:HA2	2:cq:184:TYR:OH	1.67	0.94
2:cR:197:LYS:HD3	1:eU:99:LEU:O	1.67	0.94
2:ey:107:GLY:HA2	2:ey:184:TYR:OH	1.67	0.94
1:eG:99:LEU:O	2:gr:197:LYS:HD3	1.67	0.94
2:hs:181:PRO:HG3	5:qB:58:GLN:CD	1.91	0.94
2:iM:107:GLY:HA2	2:iM:184:TYR:OH	1.67	0.94
2:jn:197:LYS:HD3	1:lp:99:LEU:O	1.67	0.94
1:mI:100:LYS:HZ3	1:ow:100:LYS:CG	1.81	0.94
3:qe:61:ASP:C	4:qm:33:SER:HB2	1.92	0.94
3:qf:61:ASP:C	4:ql:33:SER:OG	2.11	0.94
3:qf:67:ARG:CA	4:ql:194:LEU:CD1	2.44	0.94
3:qg:64:GLY:O	4:qj:220:SER:O	1.85	0.94
1:at:99:LEU:CD2	1:bR:102:GLU:CD	2.40	0.94
1:aG:99:LEU:CD2	1:kh:102:GLU:CD	2.40	0.94
1:aO:102:GLU:CD	1:iV:99:LEU:CD2	2.40	0.94
1:bt:100:LYS:N	2:ca:197:LYS:HZ2	1.64	0.94
1:bv:99:LEU:O	2:df:197:LYS:HD3	1.67	0.94
1:hd:99:LEU:CD2	1:lM:102:GLU:CD	2.40	0.94
2:hi:107:GLY:HA2	2:hi:184:TYR:OH	1.67	0.94
1:hr:100:LYS:HZ2	1:ku:100:LYS:HG2	1.27	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hy:102:GLU:CD	1:hE:99:LEU:CD2	2.40	0.94
2:iZ:197:LYS:HD3	1:ji:99:LEU:O	1.67	0.94
1:lE:99:LEU:HD21	1:ne:102:GLU:HG2	0.99	0.94
2:lJ:107:GLY:HA2	2:lJ:184:TYR:OH	1.67	0.94
1:on:99:LEU:O	2:pY:197:LYS:HD3	1.67	0.94
2:pZ:107:GLY:HA2	2:pZ:184:TYR:OH	1.67	0.94
5:qv:398:TRP:CH2	5:qx:405:ILE:HD11	2.02	0.94
5:qx:252:LEU:CD2	6:qA:126:GLN:CG	2.46	0.94
1:ac:99:LEU:HA	2:mL:197:LYS:HZ3	1.33	0.94
1:aU:100:LYS:HZ3	1:iP:100:LYS:CG	1.80	0.94
2:bQ:92:GLU:O	5:qp:47:ARG:NH2	2.00	0.94
2:bQ:103:MET:CE	5:qp:174:ARG:NH2	2.31	0.94
2:cE:107:GLY:HA2	2:cE:184:TYR:OH	1.67	0.94
1:es:102:GLU:HG3	1:nV:99:LEU:HG	1.41	0.94
2:ex:197:LYS:HD3	1:gA:99:LEU:O	1.67	0.94
1:eH:99:LEU:CD2	1:gv:102:GLU:CD	2.40	0.94
2:fC:107:GLY:HA2	2:fC:184:TYR:OH	1.67	0.94
1:fT:102:GLU:CD	1:fZ:99:LEU:CD2	2.40	0.94
1:gn:99:LEU:CD2	1:hZ:102:GLU:CD	2.40	0.94
1:hr:99:LEU:CD2	1:ku:102:GLU:CD	2.40	0.94
2:hF:104:GLN:HG2	5:qx:176:ASN:OD1	1.64	0.94
2:hI:107:GLY:HA2	2:hI:184:TYR:OH	1.67	0.94
1:is:99:LEU:O	2:jP:197:LYS:HD3	1.67	0.94
1:jx:99:LEU:CD2	1:lk:102:GLU:CD	2.40	0.94
1:kx:105:THR:HG21	2:kR:60:ILE:CG2	1.95	0.94
1:kW:102:GLU:CD	1:mW:99:LEU:CD2	2.40	0.94
2:mk:197:LYS:HD3	1:mt:99:LEU:O	1.67	0.94
3:qg:55:GLU:CG	4:qk:223:ASN:ND2	2.29	0.94
3:qh:55:GLU:CB	4:qj:223:ASN:ND2	2.30	0.94
5:qx:53:GLU:OE2	5:qz:35:HIS:NE2	2.00	0.94
5:qJ:398:TRP:CH2	5:qL:405:ILE:HD11	2.02	0.94
1:af:99:LEU:CD2	1:oi:102:GLU:CD	2.40	0.94
2:aK:197:LYS:HD3	1:iU:99:LEU:O	1.67	0.94
1:bE:100:LYS:HG2	1:hR:100:LYS:HZ3	1.24	0.94
1:cu:99:LEU:HG	1:nL:102:GLU:HG3	1.41	0.94
1:fj:99:LEU:CD2	1:gJ:102:GLU:CD	2.40	0.94
2:gU:107:GLY:HA2	2:gU:184:TYR:OH	1.67	0.94
1:hc:99:LEU:O	2:II:197:LYS:HD3	1.67	0.94
2:hX:188:MET:CE	5:qx:54:GLN:NE2	2.29	0.94
2:hF:32:LEU:HD22	5:qv:178:PRO:HG2	1.47	0.94
2:ja:107:GLY:HA2	2:ja:184:TYR:OH	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:of:107:GLY:HA2	2:of:184:TYR:OH	1.67	0.94
3:qe:66:GLN:H	4:qm:9:GLY:C	1.69	0.94
4:qn:238:THR:HG22	4:qo:50:TYR:OH	1.68	0.94
5:qv:53:GLU:OE2	5:qx:35:HIS:NE2	2.00	0.94
5:qB:53:GLU:OE2	5:qD:35:HIS:NE2	2.00	0.94
5:qD:392:LEU:CD1	5:qF:400:TYR:CE1	2.49	0.94
2:az:103:MET:CG	5:qJ:32:PHE:CD2	2.51	0.94
2:bO:107:GLY:HA2	2:bO:184:TYR:OH	1.67	0.94
2:bQ:97:GLY:CA	5:qp:51:GLU:CD	2.23	0.94
1:ck:99:LEU:O	2:ix:197:LYS:HD3	1.67	0.94
1:dQ:102:GLU:HG3	1:jG:99:LEU:HG	1.41	0.94
1:gk:100:LYS:N	2:gS:197:LYS:HZ2	1.64	0.94
2:hW:107:GLY:HA2	2:hW:184:TYR:OH	1.67	0.94
2:ik:107:GLY:HA2	2:ik:184:TYR:OH	1.67	0.94
2:jO:197:LYS:HZ2	1:oN:100:LYS:N	1.65	0.94
2:kF:107:GLY:HA2	2:kF:184:TYR:OH	1.67	0.94
4:qj:50:TYR:OH	4:qo:238:THR:HG22	1.68	0.94
5:qp:398:TRP:CH2	5:qr:405:ILE:HD11	2.02	0.94
5:qz:392:LEU:CD1	5:qB:400:TYR:CE1	2.49	0.94
5:qB:252:LEU:CD2	6:qE:126:GLN:CG	2.46	0.94
2:ai:197:LYS:HZ2	1:nh:100:LYS:N	1.66	0.93
1:bd:99:LEU:HG	1:ji:102:GLU:HG3	1.41	0.93
1:dL:102:GLU:CD	1:pe:99:LEU:CD2	2.40	0.93
2:dV:197:LYS:HD3	1:nL:99:LEU:O	1.67	0.93
2:ek:107:GLY:HA2	2:ek:184:TYR:OH	1.67	0.93
1:eB:102:GLU:CD	1:gB:99:LEU:CD2	2.40	0.93
1:gO:99:LEU:O	2:ij:197:LYS:HD3	1.67	0.93
2:hG:197:LYS:HZ2	1:kx:100:LYS:N	1.66	0.93
2:mN:107:GLY:HA2	2:mN:184:TYR:OH	1.67	0.93
3:qd:55:GLU:CD	4:qn:223:ASN:ND2	2.24	0.93
5:qx:392:LEU:CD1	5:qz:400:TYR:CE1	2.49	0.93
5:qF:392:LEU:HD13	5:qH:400:TYR:OH	1.66	0.93
2:aL:107:GLY:HA2	2:aL:184:TYR:OH	1.67	0.93
1:bJ:99:LEU:O	2:hH:197:LYS:HD3	1.67	0.93
1:fr:102:GLU:CD	1:ny:99:LEU:CD2	2.40	0.93
2:ge:107:GLY:HA2	2:ge:184:TYR:OH	1.67	0.93
1:gA:102:GLU:HG3	1:oZ:99:LEU:HG	1.41	0.93
2:hu:197:LYS:HD3	1:hD:99:LEU:O	1.67	0.93
2:hv:107:GLY:HA2	2:hv:184:TYR:OH	1.67	0.93
1:jw:99:LEU:O	2:lg:197:LYS:HD3	1.67	0.93
2:ko:31:TYR:OH	5:qF:178:PRO:HD3	1.67	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qg:66:GLN:N	4:qk:9:GLY:C	2.18	0.93
1:af:100:LYS:HZ3	1:oi:100:LYS:CG	1.82	0.93
1:aA:102:GLU:CD	1:kn:99:LEU:CD2	2.40	0.93
1:bK:99:LEU:CD2	1:hL:102:GLU:CD	2.40	0.93
1:cy:99:LEU:O	2:pi:197:LYS:HD3	1.67	0.93
1:cH:102:GLU:CD	1:cN:99:LEU:CD2	2.40	0.93
2:dH:197:LYS:HD3	1:pd:99:LEU:O	1.67	0.93
1:jx:100:LYS:HZ3	1:lk:100:LYS:CG	1.81	0.93
1:jW:99:LEU:HA	2:mZ:197:LYS:HZ1	1.28	0.93
2:oV:107:GLY:HA2	2:oV:184:TYR:OH	1.67	0.93
3:qd:66:GLN:H	4:qn:10:GLN:HG2	1.21	0.93
3:qg:66:GLN:HG3	4:qk:194:LEU:H	1.29	0.93
5:qr:53:GLU:OE2	5:qt:35:HIS:NE2	2.00	0.93
2:az:95:ASN:OD1	5:qJ:44:LYS:CE	2.16	0.93
1:aT:99:LEU:O	2:iL:197:LYS:HD3	1.67	0.93
1:bq:102:GLU:CD	1:dp:99:LEU:CD2	2.40	0.93
1:bE:102:GLU:CD	1:hR:99:LEU:CD2	2.40	0.93
1:bK:70:GLY:HA2	6:qw:117:LYS:H	1.33	0.93
1:dR:99:LEU:CD2	1:oY:102:GLU:CD	2.40	0.93
1:ee:99:LEU:O	2:nC:197:LYS:HD3	1.67	0.93
1:ef:99:LEU:CD2	1:nG:102:GLU:CD	2.40	0.93
1:gm:99:LEU:O	2:hV:197:LYS:HD3	1.67	0.93
2:gs:107:GLY:HA2	2:gs:184:TYR:OH	1.67	0.93
1:hz:99:LEU:HG	1:kN:102:GLU:HG3	1.41	0.93
1:jd:102:GLU:CD	1:jj:99:LEU:CD2	2.40	0.93
1:kN:66:ARG:NH2	1:kN:78:GLN:O	2.02	0.93
2:my:197:LYS:HD3	1:oB:99:LEU:O	1.67	0.93
1:pA:102:GLU:CD	1:pG:99:LEU:CD2	2.40	0.93
3:qf:68:ALA:CA	4:ql:8:TYR:HE2	1.82	0.93
4:qj:189:TYR:HE2	4:qo:218:LEU:HB3	1.32	0.93
5:qt:96:ARG:HD3	5:qv:114:LEU:HD23	1.51	0.93
1:bc:102:GLU:CD	1:bi:99:LEU:CD2	2.40	0.93
1:bX:99:LEU:CD2	1:dx:102:GLU:CD	2.40	0.93
1:cM:66:ARG:NH2	1:cM:78:GLN:O	2.02	0.93
1:dk:99:LEU:HG	1:km:102:GLU:HG3	1.41	0.93
1:eU:66:ARG:NH2	1:eU:78:GLN:O	2.02	0.93
1:fi:99:LEU:O	2:gF:197:LYS:HD3	1.67	0.93
2:fP:197:LYS:HD3	1:fY:99:LEU:O	1.67	0.93
1:hq:99:LEU:O	2:kq:197:LYS:HD3	1.67	0.93
1:lE:100:LYS:HZ2	1:ne:100:LYS:HG2	1.30	0.93
1:nx:66:ARG:NH2	1:nx:78:GLN:O	2.02	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:px:107:GLY:HA2	2:px:184:TYR:OH	1.67	0.93
3:qg:61:ASP:CA	4:qk:33:SER:OG	2.17	0.93
4:qj:238:THR:HG22	4:qk:50:TYR:OH	1.68	0.93
4:ql:238:THR:HG22	4:qm:50:TYR:OH	1.68	0.93
4:qm:218:LEU:HB3	4:qn:189:TYR:HE2	1.32	0.93
4:qm:238:THR:HG22	4:qn:50:TYR:OH	1.68	0.93
5:qp:405:ILE:CG2	5:qL:394:ILE:HD12	1.88	0.93
6:qq:126:GLN:CG	5:qL:252:LEU:CD2	2.46	0.93
5:qr:252:LEU:CD2	6:qu:126:GLN:CG	2.46	0.93
5:qv:252:LEU:CD2	6:qy:126:GLN:CG	2.46	0.93
1:ao:99:LEU:HG	1:gm:102:GLU:HG3	1.41	0.93
1:dQ:66:ARG:NH2	1:dQ:78:GLN:O	2.02	0.93
1:fi:66:ARG:NH2	1:fi:78:GLN:O	2.02	0.93
1:fj:99:LEU:HD21	1:gJ:102:GLU:HG2	0.99	0.93
1:fW:100:LYS:N	2:nB:197:LYS:HZ2	1.66	0.93
1:gm:66:ARG:NH2	1:gm:78:GLN:O	2.02	0.93
1:hc:66:ARG:NH2	1:hc:78:GLN:O	2.02	0.93
2:hF:104:GLN:OE1	5:qx:176:ASN:OD1	1.84	0.93
1:it:99:LEU:CD2	1:jT:102:GLU:CD	2.40	0.93
2:jB:197:LYS:HD3	1:pT:99:LEU:O	1.67	0.93
1:km:66:ARG:NH2	1:km:78:GLN:O	2.02	0.93
2:ko:104:GLN:HE22	5:qH:27:GLY:HA2	1.16	0.93
2:lX:107:GLY:HA2	2:lX:184:TYR:OH	1.67	0.93
1:mC:102:GLU:CD	1:oC:99:LEU:CD2	2.40	0.93
1:mF:100:LYS:N	2:nn:197:LYS:HZ2	1.66	0.93
3:qd:66:GLN:N	4:qn:10:GLN:CG	2.30	0.93
3:qi:66:GLN:C	4:qo:194:LEU:HD12	1.93	0.93
3:qi:66:GLN:H	4:qo:9:GLY:C	1.77	0.93
5:qr:96:ARG:HD3	5:qt:114:LEU:HD23	1.51	0.93
5:qv:245:ASP:OD2	6:qy:121:VAL:CG2	2.17	0.93
1:bW:66:ARG:NH2	1:bW:78:GLN:O	2.02	0.93
2:cD:197:LYS:HD3	1:cM:99:LEU:O	1.67	0.93
1:cY:100:LYS:N	2:dG:197:LYS:HZ2	1.66	0.93
1:fw:66:ARG:NH2	1:fw:78:GLN:O	2.02	0.93
1:mC:100:LYS:HG2	1:oC:100:LYS:HZ2	1.32	0.93
5:qt:53:GLU:OE2	5:qv:35:HIS:NE2	2.00	0.93
5:qt:252:LEU:CD2	6:qw:126:GLN:CG	2.46	0.93
5:qx:245:ASP:OD2	6:qA:121:VAL:CG2	2.17	0.93
5:qH:252:LEU:CD2	6:qK:126:GLN:CG	2.46	0.93
1:aT:66:ARG:NH2	1:aT:78:GLN:O	2.02	0.93
1:eE:99:LEU:C	2:fm:197:LYS:HZ1	1.75	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eH:100:LYS:HZ3	1:gv:100:LYS:CG	1.81	0.93
1:gA:66:ARG:NH2	1:gA:78:GLN:O	2.02	0.93
2:gG:107:GLY:HA2	2:gG:184:TYR:OH	1.67	0.93
2:kt:108:ARG:HA	5:qD:178:PRO:CG	1.99	0.93
2:kt:182:LEU:HD22	5:qD:178:PRO:HD3	1.51	0.93
1:kz:66:ARG:NH2	1:kz:78:GLN:O	2.02	0.93
2:lv:107:GLY:HA2	2:lv:184:TYR:OH	1.67	0.93
2:nQ:197:LYS:HD3	1:nZ:99:LEU:O	1.67	0.93
1:pr:66:ARG:NH2	1:pr:78:GLN:O	2.02	0.93
3:qh:65:GLY:C	4:qj:10:GLN:NE2	2.25	0.93
4:qj:245:ASP:HB2	4:qo:89:VAL:HG21	1.51	0.93
5:qx:392:LEU:HD13	5:qz:400:TYR:OH	1.66	0.93
5:qJ:96:ARG:HD3	5:qL:114:LEU:HD23	1.51	0.93
2:bm:197:LYS:HD3	1:do:99:LEU:O	1.67	0.93
1:cy:66:ARG:NH2	1:cy:78:GLN:O	2.02	0.93
2:cS:107:GLY:HA2	2:cS:184:TYR:OH	1.67	0.93
1:da:66:ARG:NH2	1:da:78:GLN:O	2.02	0.93
1:dC:99:LEU:O	2:eZ:197:LYS:HD3	1.67	0.93
1:eU:102:GLU:HG3	1:iC:99:LEU:HG	1.41	0.93
1:hq:102:GLU:HG3	1:iQ:99:LEU:HG	1.41	0.93
1:hD:66:ARG:NH2	1:hD:78:GLN:O	2.02	0.93
1:jK:66:ARG:NH2	1:jK:78:GLN:O	2.02	0.93
2:kt:111:GLY:H	5:qD:178:PRO:HG3	1.33	0.93
2:kE:197:LYS:HD3	1:kN:99:LEU:O	1.67	0.93
1:oB:66:ARG:NH2	1:oB:78:GLN:O	2.02	0.93
3:qg:68:ALA:HB2	4:qk:8:TYR:CZ	2.03	0.93
5:qD:252:LEU:CD2	6:qG:126:GLN:CG	2.46	0.93
1:bF:99:LEU:HG	1:lR:102:GLU:HG3	1.41	0.93
1:ck:66:ARG:NH2	1:ck:78:GLN:O	2.02	0.93
2:du:107:GLY:HA2	2:du:184:TYR:OH	1.67	0.93
1:gO:66:ARG:NH2	1:gO:78:GLN:O	2.02	0.93
1:lR:66:ARG:NH2	1:lR:78:GLN:O	2.02	0.93
1:oP:66:ARG:NH2	1:oP:78:GLN:O	2.02	0.93
5:qt:245:ASP:OD2	6:qw:121:VAL:CG2	2.17	0.93
5:qF:392:LEU:CD1	5:qH:400:TYR:CE1	2.49	0.93
1:do:66:ARG:NH2	1:do:78:GLN:O	2.02	0.92
2:ew:197:LYS:HZ3	1:nJ:99:LEU:HA	1.33	0.92
1:lE:99:LEU:CD2	1:ne:102:GLU:CD	2.40	0.92
5:qp:252:LEU:CD2	6:qs:126:GLN:CG	2.46	0.92
1:as:66:ARG:NH2	1:as:78:GLN:O	2.02	0.92
1:ee:66:ARG:NH2	1:ee:78:GLN:O	2.02	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fo:107:GLY:HA2	2:fo:184:TYR:OH	1.67	0.92
1:iG:66:ARG:NH2	1:iG:78:GLN:O	2.02	0.92
2:ke:107:GLY:HA2	2:ke:184:TYR:OH	1.67	0.92
1:mV:66:ARG:NH2	1:mV:78:GLN:O	2.02	0.92
2:oH:107:GLY:HA2	2:oH:184:TYR:OH	1.67	0.92
3:qf:68:ALA:CA	4:ql:8:TYR:CE2	2.52	0.92
5:qr:245:ASP:OD2	6:qu:121:VAL:CG2	2.17	0.92
2:bA:197:LYS:HD3	1:hQ:99:LEU:O	1.67	0.92
1:fT:100:LYS:CG	1:fZ:100:LYS:HZ3	1.82	0.92
2:hx:96:LEU:HD21	5:qz:47:ARG:HD3	1.50	0.92
1:is:66:ARG:NH2	1:is:78:GLN:O	2.02	0.92
1:jY:66:ARG:NH2	1:jY:78:GLN:O	2.02	0.92
1:lB:99:LEU:C	2:oF:197:LYS:HZ2	1.77	0.92
1:lD:99:LEU:O	2:na:197:LYS:HD3	1.67	0.92
2:mj:197:LYS:HZ1	1:nv:99:LEU:HA	1.27	0.92
1:mH:66:ARG:NH2	1:mH:78:GLN:O	2.02	0.92
1:nL:66:ARG:NH2	1:nL:78:GLN:O	2.02	0.92
1:nZ:66:ARG:NH2	1:nZ:78:GLN:O	2.02	0.92
3:qe:67:ARG:HB3	4:qm:194:LEU:HD13	1.51	0.92
5:qH:96:ARG:HD3	5:qJ:114:LEU:HD23	1.51	0.92
5:qH:394:ILE:HD12	5:qJ:405:ILE:CG2	1.88	0.92
1:ae:66:ARG:NH2	1:ae:78:GLN:O	2.02	0.92
1:bJ:66:ARG:NH2	1:bJ:78:GLN:O	2.02	0.92
1:bJ:102:GLU:HG3	1:lN:99:LEU:HG	1.41	0.92
1:hq:66:ARG:NH2	1:hq:78:GLN:O	2.02	0.92
2:jo:107:GLY:HA2	2:jo:184:TYR:OH	1.67	0.92
1:lE:100:LYS:HZ3	1:ne:100:LYS:HG2	1.32	0.92
3:qh:66:GLN:HG3	4:qj:194:LEU:H	1.35	0.92
6:qq:121:VAL:CG2	5:qL:245:ASP:OD2	2.17	0.92
5:qy:96:ARG:HD3	5:qx:114:LEU:HD23	1.51	0.92
5:qD:252:LEU:CD2	6:qG:126:GLN:HB3	2.00	0.92
1:aF:99:LEU:O	2:kd:197:LYS:HD3	1.67	0.92
2:dU:197:LYS:HZ3	1:pD:99:LEU:HA	1.34	0.92
1:fw:99:LEU:O	2:no:197:LYS:HD3	1.67	0.92
2:hx:184:TYR:HE2	5:qz:30:LYS:HB2	1.32	0.92
1:ji:66:ARG:NH2	1:ji:78:GLN:O	2.02	0.92
1:lp:66:ARG:NH2	1:lp:78:GLN:O	2.02	0.92
1:lD:66:ARG:NH2	1:lD:78:GLN:O	2.02	0.92
5:qp:114:LEU:HD23	5:qL:96:ARG:HD3	1.51	0.92
5:qz:245:ASP:OD2	6:qC:121:VAL:CG2	2.17	0.92
5:qF:252:LEU:CD2	6:qI:126:GLN:CG	2.46	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bw:99:LEU:CD2	1:dj:102:GLU:CD	2.40	0.92
1:cK:99:LEU:HA	2:iK:197:LYS:HZ3	1.33	0.92
1:hQ:66:ARG:NH2	1:hQ:78:GLN:O	2.02	0.92
1:iU:66:ARG:NH2	1:iU:78:GLN:O	2.02	0.92
1:jZ:99:LEU:CD2	1:ly:102:GLU:CD	2.40	0.92
2:ot:107:GLY:HA2	2:ot:184:TYR:OH	1.67	0.92
3:qd:84:TYR:CE1	6:qs:20:GLU:CG	2.23	0.92
3:qf:66:GLN:C	4:ql:194:LEU:CD1	2.40	0.92
5:qF:252:LEU:CD2	6:qI:126:GLN:HB3	2.00	0.92
5:qJ:252:LEU:CD2	6:qM:126:GLN:CG	2.46	0.92
1:aD:99:LEU:HA	2:ht:197:LYS:HZ3	1.33	0.92
1:eG:66:ARG:NH2	1:eG:78:GLN:O	2.02	0.92
2:kt:182:LEU:HD11	5:qD:177:SER:O	1.67	0.92
1:mt:66:ARG:NH2	1:mt:78:GLN:O	2.02	0.92
1:pd:66:ARG:NH2	1:pd:78:GLN:O	2.02	0.92
2:pw:197:LYS:HD3	1:pF:99:LEU:O	1.67	0.92
2:pL:107:GLY:HA2	2:pL:184:TYR:OH	1.67	0.92
3:qe:65:GLY:C	4:qm:10:GLN:HG2	1.94	0.92
3:qh:68:ALA:N	4:qj:8:TYR:CE2	2.32	0.92
4:qk:218:LEU:HB3	4:ql:189:TYR:HE2	1.32	0.92
5:qp:245:ASP:OD2	6:qs:121:VAL:CG2	2.17	0.92
2:de:197:LYS:HZ1	1:gy:99:LEU:HA	1.33	0.92
1:jF:102:GLU:CD	1:pU:99:LEU:CD2	2.40	0.92
3:qg:55:GLU:CB	4:qk:223:ASN:HD22	1.83	0.92
5:qB:245:ASP:OD2	6:qE:121:VAL:CG2	2.17	0.92
5:qB:252:LEU:CD2	6:qE:126:GLN:HB3	2.00	0.92
1:es:66:ARG:NH2	1:es:78:GLN:O	2.02	0.92
2:fa:107:GLY:HA2	2:fa:184:TYR:OH	1.67	0.92
1:gh:102:GLU:CD	1:if:99:LEU:CD2	2.40	0.92
1:gX:100:LYS:CG	1:lS:100:LYS:HZ3	1.81	0.92
2:hx:95:ASN:HB3	5:qz:44:LYS:HA	0.92	0.92
2:iw:197:LYS:HZ2	1:pR:99:LEU:C	1.78	0.92
1:iE:100:LYS:N	2:pv:197:LYS:HZ2	1.66	0.92
1:kI:102:GLU:CD	1:kO:99:LEU:CD2	2.40	0.92
2:nb:107:GLY:HA2	2:nb:184:TYR:OH	1.67	0.92
3:qf:66:GLN:H	4:ql:10:GLN:HG2	1.24	0.92
3:qg:65:GLY:HA2	4:qj:220:SER:N	1.83	0.92
3:qi:61:ASP:C	4:qo:33:SER:OG	2.13	0.92
4:qj:89:VAL:HG21	4:qk:245:ASP:HB2	1.51	0.92
5:qv:392:LEU:CD1	5:qx:400:TYR:CE1	2.49	0.92
1:bE:100:LYS:CG	1:hR:100:LYS:HZ3	1.83	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:99:LEU:CD2	1:hQ:102:GLU:CG	2.48	0.92
1:do:102:GLU:CG	1:ki:99:LEU:CD2	2.48	0.92
1:dM:99:LEU:CD2	1:jK:102:GLU:CG	2.48	0.92
1:hD:102:GLU:CG	1:kJ:99:LEU:CD2	2.48	0.92
1:mH:99:LEU:O	2:os:197:LYS:HD3	1.67	0.92
1:pF:66:ARG:NH2	1:pF:78:GLN:O	2.02	0.92
5:qt:252:LEU:CD2	6:qw:126:GLN:HB3	2.00	0.92
5:qJ:245:ASP:OD2	6:qM:121:VAL:CG2	2.17	0.92
2:am:294:LEU:HD23	2:am:295:VAL:HG23	1.52	0.91
2:az:183:ILE:CG2	5:qH:178:PRO:CB	2.46	0.91
2:aY:197:LYS:HD3	1:bh:99:LEU:O	1.67	0.91
1:cV:102:GLU:CD	1:eV:99:LEU:CD2	2.40	0.91
1:en:102:GLU:CD	1:et:99:LEU:CD2	2.40	0.91
1:eC:99:LEU:CD2	1:gO:102:GLU:CG	2.48	0.91
1:gA:102:GLU:CG	1:oZ:99:LEU:CD2	2.48	0.91
1:pT:66:ARG:NH2	1:pT:78:GLN:O	2.02	0.91
3:qd:66:GLN:H	4:qn:9:GLY:C	1.75	0.91
4:qk:238:THR:HG22	4:ql:50:TYR:OH	1.68	0.91
1:bd:99:LEU:CD2	1:ji:102:GLU:CG	2.49	0.91
1:ec:100:LYS:N	2:od:197:LYS:HZ2	1.67	0.91
1:eG:102:GLU:CG	1:gK:99:LEU:CD2	2.49	0.91
1:fv:87:ASP:HB3	2:no:5:THR:HG22	1.52	0.91
2:gT:5:THR:HG22	1:lQ:87:ASP:HB3	1.53	0.91
1:jw:66:ARG:NH2	1:jw:78:GLN:O	2.02	0.91
2:jQ:107:GLY:HA2	2:jQ:184:TYR:OH	1.67	0.91
2:kt:294:LEU:HD23	2:kt:295:VAL:HG23	1.52	0.91
1:nU:100:LYS:HG2	1:oa:100:LYS:HZ3	1.16	0.91
3:qd:55:GLU:HB3	4:qn:223:ASN:ND2	1.84	0.91
4:qn:89:VAL:HG21	4:qo:245:ASP:HB2	1.51	0.91
5:qH:245:ASP:OD2	6:qK:121:VAL:CG2	2.17	0.91
5:qH:252:LEU:CD2	6:qK:126:GLN:HB3	2.00	0.91
1:bJ:102:GLU:CG	1:lN:99:LEU:CD2	2.49	0.91
2:cT:187:ARG:NH2	2:cT:205:MET:SD	2.44	0.91
1:dz:60:ARG:HE	1:gx:99:LEU:HD22	1.36	0.91
2:fP:5:THR:HG22	1:fX:87:ASP:HB3	1.52	0.91
2:gu:294:LEU:HD23	2:gu:295:VAL:HG23	1.52	0.91
2:gH:187:ARG:NH2	2:gH:205:MET:SD	2.44	0.91
1:gX:102:GLU:CD	1:lS:99:LEU:CD2	2.40	0.91
1:jK:99:LEU:O	2:pK:197:LYS:HD3	1.67	0.91
2:kt:111:GLY:HA3	5:qD:178:PRO:HD2	1.49	0.91
6:qy:109:SER:O	6:qA:50:LEU:CD2	2.19	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aB:99:LEU:HG	1:mV:102:GLU:HG3	1.41	0.91
1:br:99:LEU:CD2	1:dC:102:GLU:CG	2.49	0.91
1:bv:66:ARG:NH2	1:bv:78:GLN:O	2.02	0.91
2:bC:187:ARG:NH2	2:bC:205:MET:SD	2.44	0.91
1:cl:100:LYS:HZ3	1:iB:100:LYS:HG2	0.77	0.91
1:cV:100:LYS:CG	1:eV:100:LYS:HZ3	1.81	0.91
2:dw:294:LEU:HD23	2:dw:295:VAL:HG23	1.52	0.91
1:eQ:99:LEU:CD2	1:iG:102:GLU:CG	2.48	0.91
1:fx:99:LEU:CD2	1:ns:102:GLU:CD	2.40	0.91
2:fE:294:LEU:HD23	2:fE:295:VAL:HG23	1.52	0.91
2:gt:187:ARG:NH2	2:gt:205:MET:SD	2.44	0.91
1:hd:100:LYS:HZ1	1:lM:100:LYS:CG	1.83	0.91
1:hq:102:GLU:CG	1:iQ:99:LEU:CD2	2.48	0.91
2:hs:107:GLY:CA	5:qB:178:PRO:CD	2.45	0.91
2:kG:187:ARG:NH2	2:kG:205:MET:SD	2.44	0.91
2:kU:187:ARG:NH2	2:kU:205:MET:SD	2.44	0.91
2:mP:294:LEU:HD23	2:mP:295:VAL:HG23	1.52	0.91
1:nj:66:ARG:NH2	1:nj:78:GLN:O	2.02	0.91
2:oW:187:ARG:NH2	2:oW:205:MET:SD	2.44	0.91
3:qe:68:ALA:CA	4:qm:8:TYR:CE2	2.54	0.91
5:qz:252:LEU:CD2	6:qC:126:GLN:HB3	2.00	0.91
5:qF:245:ASP:OD2	6:qI:121:VAL:CG2	2.17	0.91
1:as:102:GLU:CG	1:gi:99:LEU:CD2	2.48	0.91
2:bo:187:ARG:NH2	2:bo:205:MET:SD	2.44	0.91
2:bP:187:ARG:NH2	2:bP:205:MET:SD	2.44	0.91
1:bV:87:ASP:HB3	2:dt:5:THR:HG22	1.52	0.91
1:cv:99:LEU:HD22	1:dN:60:ARG:HE	1.36	0.91
2:cF:187:ARG:NH2	2:cF:205:MET:SD	2.44	0.91
2:dc:106:MET:HE3	2:dc:184:TYR:HD1	1.36	0.91
1:fY:66:ARG:NH2	1:fY:78:GLN:O	2.02	0.91
1:hm:99:LEU:CD2	1:iU:102:GLU:CG	2.48	0.91
2:hx:190:PRO:HD2	5:qx:47:ARG:HD2	1.50	0.91
2:hX:187:ARG:NH2	2:hX:205:MET:SD	2.44	0.91
2:il:187:ARG:NH2	2:il:205:MET:SD	2.44	0.91
2:iN:187:ARG:NH2	2:iN:205:MET:SD	2.44	0.91
2:kf:187:ARG:NH2	2:kf:205:MET:SD	2.44	0.91
2:kt:108:ARG:HA	5:qD:178:PRO:HB2	1.50	0.91
1:lb:66:ARG:NH2	1:lb:78:GLN:O	2.02	0.91
1:mc:99:LEU:HD22	1:nu:60:ARG:HE	1.36	0.91
2:nF:294:LEU:HD23	2:nF:295:VAL:HG23	1.52	0.91
2:og:187:ARG:NH2	2:og:205:MET:SD	2.44	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:on:66:ARG:NH2	1:on:78:GLN:O	2.02	0.91
2:oX:294:LEU:HD23	2:oX:295:VAL:HG23	1.53	0.91
3:qh:60:ALA:O	4:qj:33:SER:OG	1.88	0.91
5:qv:252:LEU:CD2	6:qy:126:GLN:HB3	2.00	0.91
6:qC:109:SER:O	6:qE:50:LEU:CD2	2.19	0.91
5:qF:96:ARG:HD3	5:qH:114:LEU:HD23	1.51	0.91
1:ao:99:LEU:CD2	1:gm:102:GLU:CG	2.49	0.91
2:az:294:LEU:HD23	2:az:295:VAL:HG23	1.52	0.91
1:bh:66:ARG:NH2	1:bh:78:GLN:O	2.02	0.91
1:bh:102:GLU:CG	1:je:99:LEU:CD2	2.48	0.91
1:bq:100:LYS:HG2	1:dp:100:LYS:HZ3	0.78	0.91
2:bQ:294:LEU:HD23	2:bQ:295:VAL:HG23	1.52	0.91
1:ch:99:LEU:HD22	1:jf:60:ARG:HE	1.36	0.91
2:cr:187:ARG:NH2	2:cr:205:MET:SD	2.44	0.91
2:cA:106:MET:HE3	2:cA:184:TYR:HD1	1.36	0.91
2:cD:5:THR:HG22	1:cL:87:ASP:HB3	1.52	0.91
1:dl:60:ARG:HE	1:hN:99:LEU:HD22	1.36	0.91
2:dJ:187:ARG:NH2	2:dJ:205:MET:SD	2.44	0.91
1:eD:60:ARG:HE	1:ff:99:LEU:HD22	1.36	0.91
1:eF:87:ASP:HB3	2:gr:5:THR:HG22	1.52	0.91
1:eQ:99:LEU:HD21	1:iG:102:GLU:CG	2.01	0.91
1:hc:102:GLU:CG	1:ox:99:LEU:HD21	2.01	0.91
2:hK:184:TYR:HE2	5:qt:178:PRO:O	1.53	0.91
2:im:294:LEU:HD23	2:im:295:VAL:HG23	1.52	0.91
2:jn:5:THR:HG22	1:lo:87:ASP:HB3	1.52	0.91
1:jH:60:ARG:HE	1:ok:99:LEU:HD22	1.36	0.91
1:jV:60:ARG:HE	1:mS:99:LEU:HD22	1.36	0.91
1:jY:102:GLU:CG	1:pP:99:LEU:CD2	2.48	0.91
2:nc:187:ARG:NH2	2:nc:205:MET:SD	2.44	0.91
2:nz:106:MET:HE3	2:nz:184:TYR:HD1	1.36	0.91
2:nS:187:ARG:NH2	2:nS:205:MET:SD	2.44	0.91
2:oR:106:MET:HE3	2:oR:184:TYR:HD1	1.36	0.91
3:qd:61:ASP:C	4:qn:33:SER:CB	2.43	0.91
6:qu:109:SER:O	6:qw:50:LEU:CD2	2.19	0.91
1:aB:99:LEU:HD21	1:mV:102:GLU:CG	2.01	0.91
2:bL:106:MET:HE3	2:bL:184:TYR:HD1	1.36	0.91
2:cb:5:THR:HG22	1:iF:87:ASP:HB3	1.52	0.91
1:cj:87:ASP:HB3	2:ix:5:THR:HG22	1.52	0.91
2:cs:294:LEU:HD23	2:cs:295:VAL:HG23	1.52	0.91
2:dE:106:MET:HE3	2:dE:184:TYR:HD1	1.36	0.91
1:fh:87:ASP:HB3	2:gF:5:THR:HG22	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fp:187:ARG:NH2	2:fp:205:MET:SD	2.44	0.91
1:fk:66:ARG:NH2	1:fk:78:GLN:O	2.02	0.91
1:hr:100:LYS:HZ3	1:ku:100:LYS:HG2	1.36	0.91
1:ie:66:ARG:NH2	1:ie:78:GLN:O	2.02	0.91
1:io:99:LEU:HG	1:on:102:GLU:HG3	1.41	0.91
2:iW:106:MET:HE3	2:iW:184:TYR:HD1	1.36	0.91
2:jp:187:ARG:NH2	2:jp:205:MET:SD	2.44	0.91
2:jD:187:ARG:NH2	2:jD:205:MET:SD	2.44	0.91
1:jY:102:GLU:CG	1:pP:99:LEU:HD21	2.01	0.91
2:ks:187:ARG:NH2	2:ks:205:MET:SD	2.44	0.91
2:lw:187:ARG:NH2	2:lw:205:MET:SD	2.44	0.91
2:lx:294:LEU:HD23	2:lx:295:VAL:HG23	1.52	0.91
2:lK:187:ARG:NH2	2:lK:205:MET:SD	2.44	0.91
3:qi:68:ALA:HB1	4:qn:222:GLY:C	1.95	0.91
6:qE:109:SER:O	6:qG:50:LEU:CD2	2.19	0.91
2:al:187:ARG:NH2	2:al:205:MET:SD	2.44	0.91
1:bS:99:LEU:HD21	1:hQ:102:GLU:CG	2.01	0.91
1:cX:99:LEU:HD22	1:gx:60:ARG:HE	1.36	0.91
1:dC:66:ARG:NH2	1:dC:78:GLN:O	2.02	0.91
1:fH:99:LEU:HD22	1:gZ:60:ARG:HE	1.36	0.91
2:hk:294:LEU:HD23	2:hk:295:VAL:HG23	1.52	0.91
2:hJ:187:ARG:NH2	2:hJ:205:MET:SD	2.44	0.91
1:is:102:GLU:CG	1:oj:99:LEU:HD21	2.01	0.91
2:jb:187:ARG:NH2	2:jb:205:MET:SD	2.44	0.91
2:ka:106:MET:HE3	2:ka:184:TYR:HD1	1.36	0.91
2:lr:106:MET:HE3	2:lr:184:TYR:HD1	1.36	0.91
2:lZ:294:LEU:HD23	2:lZ:295:VAL:HG23	1.52	0.91
1:mf:66:ARG:NH2	1:mf:78:GLN:O	2.02	0.91
1:mG:87:ASP:HB3	2:os:5:THR:HG22	1.52	0.91
2:mO:187:ARG:NH2	2:mO:205:MET:SD	2.44	0.91
2:mX:106:MET:HE3	2:mX:184:TYR:HD1	1.36	0.91
2:oI:187:ARG:NH2	2:oI:205:MET:SD	2.44	0.91
2:pM:187:ARG:NH2	2:pM:205:MET:SD	2.44	0.91
3:qh:55:GLU:CB	4:qj:223:ASN:HD22	1.84	0.91
3:qi:67:ARG:H	4:qo:194:LEU:HD12	1.13	0.91
1:aF:66:ARG:NH2	1:aF:78:GLN:O	2.02	0.91
2:bx:106:MET:HE3	2:bx:184:TYR:HD1	1.36	0.91
1:bG:99:LEU:HD22	1:gL:60:ARG:HE	1.36	0.91
2:cd:187:ARG:NH2	2:cd:205:MET:SD	2.44	0.91
1:ck:102:GLU:CG	1:ll:99:LEU:CD2	2.48	0.91
1:ck:102:GLU:CG	1:ll:99:LEU:HD21	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dq:106:MET:HE3	2:dq:184:TYR:HD1	1.36	0.91
2:dY:294:LEU:HD23	2:dY:295:VAL:HG23	1.52	0.91
2:el:187:ARG:NH2	2:el:205:MET:SD	2.44	0.91
1:eG:102:GLU:CG	1:gK:99:LEU:HD21	2.01	0.91
2:fn:5:THR:HG22	1:nw:87:ASP:HB3	1.52	0.91
2:gV:187:ARG:NH2	2:gV:205:MET:SD	2.44	0.91
2:hw:187:ARG:NH2	2:hw:205:MET:SD	2.44	0.91
1:io:99:LEU:HD21	1:on:102:GLU:CG	2.01	0.91
2:jR:187:ARG:NH2	2:jR:205:MET:SD	2.44	0.91
2:jS:294:LEU:HD23	2:jS:295:VAL:HG23	1.52	0.91
2:ko:31:TYR:CZ	5:qF:178:PRO:CD	2.38	0.91
1:kY:99:LEU:HD22	1:oy:60:ARG:HE	1.36	0.91
1:lb:102:GLU:CG	1:nf:99:LEU:CD2	2.49	0.91
2:mm:187:ARG:NH2	2:mm:205:MET:SD	2.44	0.91
2:nE:187:ARG:NH2	2:nE:205:MET:SD	2.44	0.91
2:pV:106:MET:HE3	2:pV:184:TYR:HD1	1.36	0.91
3:qg:61:ASP:HA	4:qk:33:SER:OG	1.70	0.91
3:qg:66:GLN:H	4:qk:10:GLN:HG2	1.12	0.91
4:qj:218:LEU:HB3	4:qk:189:TYR:HE2	1.32	0.91
4:qm:89:VAL:HG21	4:qn:245:ASP:HB2	1.51	0.91
6:qG:109:SER:O	6:qI:50:LEU:CD2	2.19	0.91
1:aO:100:LYS:CG	1:iV:100:LYS:HZ3	1.83	0.91
1:br:99:LEU:HD21	1:dC:102:GLU:CG	2.01	0.91
1:cu:99:LEU:HD21	1:nL:102:GLU:CG	2.01	0.91
1:dk:99:LEU:HD21	1:km:102:GLU:CG	2.01	0.91
1:eb:99:LEU:HD22	1:ft:60:ARG:HE	1.36	0.91
1:es:102:GLU:CG	1:nV:99:LEU:CD2	2.48	0.91
1:eU:102:GLU:CG	1:iC:99:LEU:CD2	2.48	0.91
1:fY:102:GLU:CG	1:mp:99:LEU:HD21	2.01	0.91
2:hu:5:THR:HG22	1:hC:87:ASP:HB3	1.52	0.91
1:ir:87:ASP:HB3	2:jP:5:THR:HG22	1.52	0.91
1:lb:102:GLU:CG	1:nf:99:LEU:HD21	2.01	0.91
2:lY:187:ARG:NH2	2:lY:205:MET:SD	2.44	0.91
2:mk:5:THR:HG22	1:ms:87:ASP:HB3	1.53	0.91
2:mA:187:ARG:NH2	2:mA:205:MET:SD	2.44	0.91
1:mH:102:GLU:CG	1:oL:99:LEU:CD2	2.48	0.91
2:nq:187:ARG:NH2	2:nq:205:MET:SD	2.44	0.91
2:oD:106:MET:HE3	2:oD:184:TYR:HD1	1.36	0.91
2:oJ:294:LEU:HD23	2:oJ:295:VAL:HG23	1.52	0.91
3:qf:61:ASP:HA	4:ql:33:SER:HB3	0.93	0.91
3:qg:65:GLY:C	4:qk:10:GLN:NE2	2.27	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ql:177:MET:SD	4:qm:250:GLY:O	0.53	0.91
6:qq:109:SER:O	6:qs:50:LEU:CD2	2.19	0.91
1:ap:60:ARG:HE	1:dl:99:LEU:HD22	1.36	0.90
1:cu:99:LEU:CD2	1:nL:102:GLU:CG	2.49	0.90
1:cv:60:ARG:HE	1:pC:99:LEU:HD22	1.36	0.90
1:cM:102:GLU:CG	1:pB:99:LEU:HD21	2.01	0.90
2:fc:294:LEU:HD23	2:fc:295:VAL:HG23	1.53	0.90
2:go:106:MET:HE3	2:go:184:TYR:HD1	1.36	0.90
2:gQ:106:MET:HE3	2:gQ:184:TYR:HD1	1.36	0.90
1:ia:99:LEU:HD21	1:nx:102:GLU:CG	2.01	0.90
2:iO:294:LEU:HD23	2:iO:295:VAL:HG23	1.52	0.90
1:iR:99:LEU:HD22	1:kj:60:ARG:HE	1.36	0.90
1:jw:102:GLU:CG	1:lz:99:LEU:HD21	2.01	0.90
2:mh:106:MET:HE3	2:mh:184:TYR:HD1	1.36	0.90
2:nr:294:LEU:HD23	2:nr:295:VAL:HG23	1.52	0.90
3:qf:65:GLY:N	4:qk:219:ILE:HG23	1.85	0.90
3:qh:68:ALA:HB2	4:qo:222:GLY:O	1.69	0.90
4:qj:250:GLY:O	4:qo:177:MET:SD	0.53	0.90
5:qp:96:ARG:HD3	5:qr:114:LEU:HD23	1.51	0.90
6:qw:109:SER:O	6:qy:50:LEU:CD2	2.19	0.90
2:au:106:MET:HE3	2:au:184:TYR:HD1	1.36	0.90
2:au:106:MET:HE2	5:qL:176:ASN:O	1.70	0.90
2:ay:187:ARG:NH2	2:ay:205:MET:SD	2.44	0.90
2:aK:5:THR:HG22	1:iT:87:ASP:HB3	1.52	0.90
1:aR:100:LYS:N	2:jm:197:LYS:HZ2	1.70	0.90
2:ba:187:ARG:NH2	2:ba:205:MET:SD	2.44	0.90
1:bf:99:LEU:HA	2:kp:197:LYS:HZ3	1.37	0.90
2:bQ:108:ARG:HA	5:qp:176:ASN:O	1.71	0.90
1:bS:99:LEU:HG	1:hQ:102:GLU:HG3	1.41	0.90
1:cM:102:GLU:HG3	1:pB:99:LEU:HG	1.41	0.90
1:cM:102:GLU:CG	1:pB:99:LEU:CD2	2.49	0.90
1:eo:99:LEU:CD2	1:nZ:102:GLU:CG	2.48	0.90
2:fD:187:ARG:NH2	2:fD:205:MET:SD	2.44	0.90
2:he:106:MET:HE3	2:he:184:TYR:HD1	1.36	0.90
2:hX:190:PRO:CG	5:qx:47:ARG:HD3	2.01	0.90
2:iY:197:LYS:HZ3	1:kk:99:LEU:HA	1.34	0.90
2:kH:294:LEU:HD23	2:kH:295:VAL:HG23	1.52	0.90
1:mH:102:GLU:HG3	1:oL:99:LEU:HG	1.41	0.90
1:mH:102:GLU:CG	1:oL:99:LEU:HD21	2.01	0.90
2:ou:187:ARG:NH2	2:ou:205:MET:SD	2.44	0.90
2:pk:187:ARG:NH2	2:pk:205:MET:SD	2.44	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qe:68:ALA:CB	4:qm:8:TYR:HH	1.84	0.90
3:qh:55:GLU:CG	4:qj:223:ASN:HD22	1.83	0.90
5:qD:245:ASP:OD2	6:qG:121:VAL:CG2	2.17	0.90
5:qJ:252:LEU:CD2	6:qM:126:GLN:HB3	2.00	0.90
1:ap:99:LEU:HD22	1:hN:60:ARG:HE	1.36	0.90
1:aB:99:LEU:CD2	1:mV:102:GLU:CG	2.48	0.90
1:bd:99:LEU:HD21	1:ji:102:GLU:CG	2.01	0.90
2:cm:106:MET:HE3	2:cm:184:TYR:HD1	1.36	0.90
2:cU:294:LEU:HD23	2:cU:295:VAL:HG23	1.52	0.90
1:do:102:GLU:CG	1:ki:99:LEU:HD21	2.01	0.90
1:ea:99:LEU:CD2	1:mf:102:GLU:CG	2.49	0.90
1:eU:102:GLU:CG	1:iC:99:LEU:HD21	2.01	0.90
2:fS:294:LEU:HD23	2:fS:295:VAL:HG23	1.53	0.90
1:hb:87:ASP:HB3	2:II:5:THR:HG22	1.52	0.90
2:hj:187:ARG:NH2	2:hj:205:MET:SD	2.44	0.90
2:iz:187:ARG:NH2	2:iz:205:MET:SD	2.44	0.90
1:jv:87:ASP:HB3	2:lg:5:THR:HG22	1.52	0.90
1:jJ:87:ASP:HB3	2:pK:5:THR:HG22	1.53	0.90
1:kX:99:LEU:CD2	1:nj:102:GLU:CG	2.48	0.90
2:li:187:ARG:NH2	2:li:205:MET:SD	2.44	0.90
1:mE:60:ARG:HE	1:ng:99:LEU:HD22	1.36	0.90
2:oh:294:LEU:HD23	2:oh:295:VAL:HG23	1.52	0.90
2:py:187:ARG:NH2	2:py:205:MET:SD	2.44	0.90
3:qf:64:GLY:C	4:qk:219:ILE:HG22	1.96	0.90
5:qx:96:ARG:HD3	5:qz:114:LEU:HD23	1.51	0.90
6:qK:109:SER:O	6:qM:50:LEU:CD2	2.19	0.90
1:aP:102:GLU:OE1	1:ci:99:LEU:CA	2.20	0.90
1:bt:99:LEU:CA	1:bS:102:GLU:OE1	2.20	0.90
1:bF:102:GLU:OE1	1:gM:99:LEU:CA	2.20	0.90
2:ce:294:LEU:HD23	2:ce:295:VAL:HG23	1.52	0.90
1:da:102:GLU:CG	1:fe:99:LEU:CD2	2.48	0.90
1:ee:102:GLU:CG	1:mb:99:LEU:CD2	2.48	0.90
2:eL:60:ILE:HG12	1:ib:105:THR:HG21	1.54	0.90
2:eN:187:ARG:NH2	2:eN:205:MET:SD	2.44	0.90
1:fV:99:LEU:HD22	1:mc:60:ARG:HE	1.36	0.90
1:gA:102:GLU:CG	1:oZ:99:LEU:HD21	2.01	0.90
2:hx:294:LEU:HD23	2:hx:295:VAL:HG23	1.52	0.90
1:hB:99:LEU:CA	1:lN:102:GLU:OE1	2.20	0.90
2:hF:106:MET:HE3	2:hF:184:TYR:HD1	1.36	0.90
1:ip:60:ARG:HE	1:lm:99:LEU:HD22	1.36	0.90
1:jt:99:LEU:HD22	1:mS:60:ARG:HE	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jt:105:THR:HG21	2:kd:60:ILE:HG12	1.54	0.90
2:jM:106:MET:HE3	2:jM:184:TYR:HD1	1.36	0.90
2:kt:107:GLY:O	5:qD:178:PRO:CA	2.20	0.90
2:kB:106:MET:HE3	2:kB:184:TYR:HD1	1.36	0.90
2:kP:106:MET:HE3	2:kP:184:TYR:HD1	1.36	0.90
1:kX:99:LEU:HD21	1:nj:102:GLU:CG	2.01	0.90
2:lg:60:ILE:HG12	1:oy:105:THR:HG21	1.54	0.90
1:lm:105:THR:HG21	2:pY:60:ILE:HG12	1.54	0.90
1:lC:87:ASP:HB3	2:na:5:THR:HG22	1.52	0.90
1:mC:100:LYS:HG2	1:oc:100:LYS:HZ3	1.30	0.90
1:nH:102:GLU:OE1	1:pb:99:LEU:CA	2.20	0.90
2:nQ:5:THR:HG22	1:nY:87:ASP:HB3	1.52	0.90
2:qa:187:ARG:NH2	2:qa:205:MET:SD	2.44	0.90
5:qp:252:LEU:CD2	6:qs:126:GLN:HB3	2.00	0.90
6:qA:109:SER:O	6:qC:50:LEU:CD2	2.19	0.90
5:qH:392:LEU:CD1	5:qJ:400:TYR:CE1	2.49	0.90
1:ad:87:ASP:HB3	2:oe:5:THR:HG22	1.52	0.90
1:aQ:60:ARG:HE	1:jf:99:LEU:HD22	1.36	0.90
2:bj:106:MET:HE3	2:bj:184:TYR:HD1	1.36	0.90
1:bW:102:GLU:CG	1:hM:99:LEU:CD2	2.48	0.90
1:cJ:60:ARG:HE	1:iD:99:LEU:HD22	1.36	0.90
1:cJ:99:LEU:HD22	1:po:60:ARG:HE	1.36	0.90
1:do:102:GLU:HG3	1:ki:99:LEU:HG	1.41	0.90
2:dH:5:THR:HG22	1:pc:87:ASP:HB3	1.52	0.90
2:dS:106:MET:HE3	2:dS:184:TYR:HD1	1.36	0.90
2:eu:106:MET:HE3	2:eu:184:TYR:HD1	1.36	0.90
1:eE:99:LEU:CA	1:fe:102:GLU:OE1	2.20	0.90
1:fH:105:THR:HG21	2:my:60:ILE:HG12	1.54	0.90
1:fK:102:GLU:CG	1:kv:99:LEU:CD2	2.48	0.90
2:hs:107:GLY:HA3	5:qB:178:PRO:N	1.86	0.90
1:hB:99:LEU:C	2:IV:197:LYS:HZ2	1.79	0.90
2:hK:294:LEU:HD23	2:hK:295:VAL:HG23	1.52	0.90
2:hS:106:MET:HE3	2:hS:184:TYR:HD1	1.36	0.90
1:ia:99:LEU:CD2	1:nx:102:GLU:CG	2.48	0.90
1:io:99:LEU:CD2	1:on:102:GLU:CG	2.48	0.90
2:mk:60:ILE:HG12	1:nu:105:THR:HG21	1.54	0.90
1:mE:105:THR:HG21	2:no:60:ILE:HG12	1.54	0.90
2:pN:294:LEU:HD23	2:pN:295:VAL:HG23	1.52	0.90
3:qi:61:ASP:O	4:qo:33:SER:HB2	1.70	0.90
5:qx:252:LEU:CD2	6:qA:126:GLN:HB3	2.00	0.90
5:qD:96:ARG:HD3	5:qF:114:LEU:HD23	1.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aa:99:LEU:HD21	1:fw:102:GLU:CG	2.01	0.90
1:ac:99:LEU:CA	1:mD:102:GLU:OE1	2.20	0.90
1:aC:99:LEU:HD22	1:kK:60:ARG:HE	1.36	0.90
2:aK:60:ILE:HG12	1:kK:105:THR:HG21	1.54	0.90
2:aM:187:ARG:NH2	2:aM:205:MET:SD	2.44	0.90
1:bI:87:ASP:HB3	2:hH:5:THR:HG22	1.52	0.90
2:bQ:103:MET:HE1	5:qp:174:ARG:NE	1.86	0.90
1:bT:105:THR:HG21	2:eZ:60:ILE:HG12	1.54	0.90
2:cp:5:THR:HG22	1:pq:87:ASP:HB3	1.52	0.90
2:cR:5:THR:HG22	1:eT:87:ASP:HB3	1.52	0.90
1:cY:99:LEU:CA	1:dy:102:GLU:OE1	2.20	0.90
1:da:102:GLU:CG	1:fe:99:LEU:HD21	2.01	0.90
2:dh:187:ARG:NH2	2:dh:205:MET:SD	2.44	0.90
2:dv:187:ARG:NH2	2:dv:205:MET:SD	2.44	0.90
1:dA:99:LEU:CA	1:gw:102:GLU:OE1	2.20	0.90
1:ea:99:LEU:HD21	1:mf:102:GLU:CG	2.01	0.90
2:ej:5:THR:HG22	1:er:87:ASP:HB3	1.53	0.90
2:em:294:LEU:HD23	2:em:295:VAL:HG23	1.52	0.90
1:es:102:GLU:CG	1:nV:99:LEU:HD21	2.01	0.90
1:ff:105:THR:HG21	2:ij:60:ILE:HG12	1.54	0.90
2:fr:187:ARG:NH2	2:fr:205:MET:SD	2.44	0.90
1:gj:105:THR:HG21	2:gT:60:ILE:HG12	1.54	0.90
1:jU:99:LEU:CD2	1:pT:102:GLU:CG	2.48	0.90
2:kg:294:LEU:HD23	2:kg:295:VAL:HG23	1.52	0.90
1:kw:99:LEU:HD22	1:lO:60:ARG:HE	1.36	0.90
2:kE:5:THR:HG22	1:kM:87:ASP:HB3	1.52	0.90
1:kY:60:ARG:HE	1:lA:99:LEU:HD22	1.36	0.90
2:lj:294:LEU:HD23	2:lj:295:VAL:HG23	1.52	0.90
2:nT:294:LEU:HD23	2:nT:295:VAL:HG23	1.52	0.90
1:ok:60:ARG:HE	1:oM:99:LEU:HD22	1.36	0.90
2:qb:294:LEU:HD23	2:qb:295:VAL:HG23	1.53	0.90
6:qw:112:LEU:HD22	6:qy:58:LEU:HD11	0.90	0.90
6:qI:109:SER:O	6:qK:50:LEU:CD2	2.19	0.90
1:ab:60:ARG:HE	1:mE:99:LEU:HD22	1.36	0.90
2:ag:106:MET:HE3	2:ag:184:TYR:HD1	1.36	0.90
2:bz:197:LYS:HZ2	1:eS:99:LEU:C	1.78	0.90
1:bF:99:LEU:HD21	1:lR:102:GLU:CG	2.01	0.90
1:bH:99:LEU:CA	1:gi:102:GLU:OE1	2.20	0.90
1:bW:102:GLU:CG	1:hM:99:LEU:HD21	2.01	0.90
1:cg:99:LEU:CD2	1:lp:102:GLU:CG	2.48	0.90
1:cu:102:GLU:OE1	1:dO:99:LEU:CA	2.20	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cW:99:LEU:HD21	1:fi:102:GLU:CG	2.01	0.90
1:cW:102:GLU:OE1	1:gy:99:LEU:CA	2.20	0.90
1:dz:105:THR:HG21	2:gF:60:ILE:HG12	1.54	0.90
1:ee:102:GLU:CG	1:mb:99:LEU:HD21	2.01	0.90
2:ex:60:ILE:HG12	1:nI:105:THR:HG21	1.54	0.90
1:eC:99:LEU:HD21	1:gO:102:GLU:CG	2.01	0.90
2:fP:60:ILE:HG12	1:gZ:105:THR:HG21	1.54	0.90
1:fW:99:LEU:CA	1:nt:102:GLU:OE1	2.20	0.90
2:gf:187:ARG:NH2	2:gf:205:MET:SD	2.44	0.90
1:gN:87:ASP:HB3	2:ij:5:THR:HG22	1.52	0.90
1:gY:99:LEU:CD2	1:oB:102:GLU:CG	2.48	0.90
1:hm:99:LEU:HD21	1:iU:102:GLU:CG	2.01	0.90
1:hn:105:THR:HG21	2:kS:60:ILE:HG12	1.54	0.90
1:ie:102:GLU:CG	1:nt:99:LEU:CD2	2.49	0.90
1:io:102:GLU:OE1	1:pR:99:LEU:CA	2.20	0.90
1:la:87:ASP:HB3	2:mM:5:THR:HG22	1.52	0.90
1:IA:105:THR:HG21	2:oG:60:ILE:HG12	1.54	0.90
1:mD:99:LEU:HD21	1:oP:102:GLU:CG	2.01	0.90
1:ni:87:ASP:HB3	2:oG:5:THR:HG22	1.52	0.90
3:qd:66:GLN:CB	4:qn:8:TYR:O	2.20	0.90
4:qk:177:MET:SD	4:ql:250:GLY:O	0.53	0.90
1:ae:102:GLU:CG	1:fs:99:LEU:HD21	2.01	0.90
1:ae:102:GLU:CG	1:fs:99:LEU:CD2	2.48	0.90
1:as:102:GLU:CG	1:gi:99:LEU:HD21	2.01	0.90
1:be:102:GLU:CB	1:kj:99:LEU:HD22	1.98	0.90
1:bG:60:ARG:HE	1:gj:99:LEU:HD22	1.36	0.90
1:cI:99:LEU:CD2	1:pF:102:GLU:CG	2.48	0.90
2:di:294:LEU:HD23	2:di:295:VAL:HG23	1.52	0.90
1:dN:99:LEU:HD22	1:pC:60:ARG:HE	1.36	0.90
1:eD:105:THR:HG21	2:fn:60:ILE:HG12	1.54	0.90
2:fb:187:ARG:NH2	2:fb:205:MET:SD	2.44	0.90
2:fq:294:LEU:HD23	2:fq:295:VAL:HG23	1.52	0.90
1:fH:102:GLU:CB	1:mq:99:LEU:HD22	1.98	0.90
1:hc:102:GLU:CG	1:ox:99:LEU:CD2	2.48	0.90
2:hh:60:ILE:HG12	1:mq:105:THR:HG21	1.54	0.90
1:hz:99:LEU:CD2	1:kN:102:GLU:CG	2.48	0.90
1:iq:99:LEU:CA	1:ll:102:GLU:OE1	2.20	0.90
1:iQ:102:GLU:OE1	1:kk:99:LEU:CA	2.20	0.90
2:jq:294:LEU:HD23	2:jq:295:VAL:HG23	1.53	0.90
1:ju:99:LEU:CA	1:jU:102:GLU:OE1	2.20	0.90
2:aV:106:MET:HE3	2:aV:184:TYR:HD1	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aY:60:ILE:HG12	1:ch:105:THR:HG21	1.54	0.90
2:bo:294:LEU:HD23	2:bo:295:VAL:HG23	1.54	0.90
1:bv:102:GLU:CG	1:dy:99:LEU:CD2	2.48	0.90
2:bA:5:THR:HG22	1:hP:87:ASP:HB3	1.52	0.90
1:cy:102:GLU:CG	1:nH:99:LEU:HD21	2.01	0.90
1:db:100:LYS:HZ3	1:eP:100:LYS:HG2	0.79	0.90
1:dM:99:LEU:HD21	1:jK:102:GLU:CG	2.01	0.90
2:dX:187:ARG:NH2	2:dX:205:MET:SD	2.44	0.90
1:ec:99:LEU:CA	1:nV:102:GLU:OE1	2.20	0.90
1:eD:99:LEU:HD22	1:ib:60:ARG:HE	1.36	0.90
1:eD:99:LEU:HD22	1:ib:102:GLU:CB	1.98	0.90
1:ff:60:ARG:HE	1:ib:99:LEU:HD22	1.36	0.90
1:fx:100:LYS:HZ3	1:ns:100:LYS:CG	1.82	0.90
1:gY:102:GLU:OE1	1:mr:99:LEU:CA	2.20	0.90
1:hz:102:GLU:OE1	1:kx:99:LEU:CA	2.20	0.90
2:hY:294:LEU:HD23	2:hY:295:VAL:HG23	1.53	0.90
1:ie:102:GLU:CG	1:nt:99:LEU:HD21	2.01	0.90
1:jW:99:LEU:CA	1:mR:102:GLU:OE1	2.20	0.90
1:kv:102:GLU:OE1	1:lP:99:LEU:CA	2.20	0.90
2:kV:294:LEU:HD23	2:kV:295:VAL:HG23	1.52	0.90
2:ld:106:MET:HE3	2:ld:184:TYR:HD1	1.36	0.90
1:om:87:ASP:HB3	2:pY:5:THR:HG22	1.52	0.90
3:qd:60:ALA:O	4:qn:33:SER:OG	1.88	0.90
4:qk:89:VAL:HG21	4:ql:245:ASP:HB2	1.51	0.90
4:qm:177:MET:SD	4:qn:250:GLY:O	0.53	0.90
6:qs:109:SER:O	6:qu:50:LEU:CD2	2.19	0.90
1:ab:105:THR:HG21	2:mM:60:ILE:HG12	1.54	0.90
1:ao:99:LEU:HD21	1:gm:102:GLU:CG	2.01	0.90
1:ap:105:THR:HG21	2:dt:60:ILE:HG12	1.54	0.90
1:aF:102:GLU:CG	1:mR:99:LEU:CD2	2.49	0.90
2:aM:294:LEU:HD23	2:aM:295:VAL:HG23	1.54	0.90
1:aP:99:LEU:HD21	1:pr:102:GLU:CG	2.01	0.90
2:bA:60:ILE:HG12	1:eR:105:THR:HG21	1.54	0.90
2:bC:294:LEU:HD23	2:bC:295:VAL:HG23	1.54	0.90
1:bF:99:LEU:CD2	1:lR:102:GLU:CG	2.49	0.90
1:cJ:105:THR:HG21	2:iL:60:ILE:HG12	1.54	0.90
2:dh:294:LEU:HD23	2:dh:295:VAL:HG23	1.54	0.90
1:ep:105:THR:HG21	2:pi:60:ILE:HG12	1.54	0.90
2:ez:187:ARG:NH2	2:ez:205:MET:SD	2.44	0.90
2:eA:294:LEU:HD23	2:eA:295:VAL:HG23	1.52	0.90
1:fK:102:GLU:CG	1:kv:99:LEU:HD21	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gl:87:ASP:HB3	2:hV:5:THR:HG22	1.52	0.90
2:hg:61:GLY:O	1:lB:103:ARG:HG3	1.72	0.90
2:hs:111:GLY:CA	5:qB:176:ASN:HB3	2.02	0.90
2:ix:60:ILE:HG12	1:pQ:105:THR:HG21	1.54	0.90
1:jH:99:LEU:HD22	1:oM:60:ARG:HE	1.36	0.90
1:jX:87:ASP:HB3	2:lu:5:THR:HG22	1.52	0.90
2:lK:294:LEU:HD23	2:lK:295:VAL:HG23	1.54	0.90
1:mD:99:LEU:CD2	1:oP:102:GLU:CG	2.48	0.90
2:py:294:LEU:HD23	2:py:295:VAL:HG23	1.54	0.90
2:aw:5:THR:HG22	1:kl:87:ASP:HB3	1.53	0.89
2:az:103:MET:SD	5:qJ:32:PHE:CD2	2.65	0.89
1:aT:102:GLU:CG	1:pn:99:LEU:HD21	2.01	0.89
1:bh:102:GLU:CG	1:je:99:LEU:HD21	2.01	0.89
1:ea:102:GLU:OE1	1:fu:99:LEU:CA	2.20	0.89
2:fk:106:MET:HE3	2:fk:184:TYR:HD1	1.36	0.89
1:fV:105:THR:HG21	2:nC:60:ILE:HG12	1.54	0.89
1:gj:60:ARG:HE	1:gL:99:LEU:HD22	1.36	0.89
1:gk:99:LEU:CA	1:gK:102:GLU:OE1	2.20	0.89
1:gM:103:ARG:HG3	2:IV:61:GLY:O	1.73	0.89
1:kL:103:ARG:HG3	2:mZ:61:GLY:O	1.73	0.89
1:mF:99:LEU:CA	1:nf:102:GLU:OE1	2.20	0.89
2:nN:106:MET:HE3	2:nN:184:TYR:HD1	1.36	0.89
1:pp:103:ARG:HG3	2:pJ:61:GLY:O	1.72	0.89
2:pM:294:LEU:HD23	2:pM:295:VAL:HG23	1.54	0.89
6:qK:112:LEU:HD22	6:qM:58:LEU:HD11	0.90	0.89
1:aa:99:LEU:CD2	1:fw:102:GLU:CG	2.48	0.89
2:ai:61:GLY:O	1:nX:103:ARG:HG3	1.72	0.89
1:as:102:GLU:HG3	1:gi:99:LEU:HG	1.41	0.89
1:aC:60:ARG:NH2	1:hn:99:LEU:HD11	1.88	0.89
1:aE:87:ASP:HB3	2:kd:5:THR:HG22	1.52	0.89
2:aN:294:LEU:HD23	2:aN:295:VAL:HG23	1.52	0.89
2:bz:61:GLY:O	1:cY:103:ARG:HG3	1.72	0.89
1:bG:105:THR:HG21	2:gr:60:ILE:HG12	1.54	0.89
1:cg:99:LEU:HD21	1:lp:102:GLU:CG	2.01	0.89
2:cp:60:ILE:HG12	1:jf:105:THR:HG21	1.54	0.89
2:cG:294:LEU:HD23	2:cG:295:VAL:HG23	1.52	0.89
1:cI:99:LEU:HD21	1:pF:102:GLU:CG	2.01	0.89
1:dB:87:ASP:HB3	2:eZ:5:THR:HG22	1.52	0.89
1:ed:87:ASP:HB3	2:nC:5:THR:HG22	1.53	0.89
2:fA:61:GLY:O	1:nh:103:ARG:HG3	1.73	0.89
1:fG:99:LEU:HD21	1:kz:102:GLU:CG	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fH:99:LEU:HD11	1:gZ:60:ARG:NH2	1.88	0.89
1:fW:103:ARG:HG3	2:ii:61:GLY:O	1.73	0.89
2:ga:106:MET:HE3	2:ga:184:TYR:HD1	1.36	0.89
1:hq:102:GLU:CG	1:iQ:99:LEU:HD21	2.01	0.89
1:ip:99:LEU:HD22	1:pQ:60:ARG:HE	1.36	0.89
1:iD:105:THR:HG21	2:pw:60:ILE:HG12	1.54	0.89
2:jc:294:LEU:HD23	2:jc:295:VAL:HG23	1.53	0.89
1:jV:105:THR:HG21	2:na:60:ILE:HG12	1.54	0.89
1:kL:103:ARG:O	2:mZ:61:GLY:O	1.91	0.89
1:kY:105:THR:HG21	2:II:60:ILE:HG12	1.54	0.89
2:IT:106:MET:HE3	2:IT:184:TYR:HD1	1.36	0.89
2:my:5:THR:HG22	1:OA:87:ASP:HB3	1.52	0.89
2:mJ:106:MET:HE3	2:mJ:184:TYR:HD1	1.36	0.89
4:qj:202:ILE:CD1	4:qo:116:PHE:CE1	2.55	0.89
4:ql:89:VAL:HG21	4:qm:245:ASP:HB2	1.51	0.89
5:qt:392:LEU:CD1	5:qv:400:TYR:CE1	2.49	0.89
2:al:294:LEU:HD23	2:al:295:VAL:HG23	1.54	0.89
1:cX:105:THR:HG21	2:dH:60:ILE:HG12	1.54	0.89
1:fu:103:ARG:O	2:mj:61:GLY:O	1.91	0.89
1:fU:99:LEU:HD21	1:mt:102:GLU:CG	2.01	0.89
1:gY:99:LEU:HD21	1:OB:102:GLU:CG	2.01	0.89
2:hx:184:TYR:CE2	5:qz:30:LYS:CB	2.54	0.89
1:iS:103:ARG:O	2:jm:61:GLY:O	1.91	0.89
2:jD:294:LEU:HD23	2:jD:295:VAL:HG23	1.54	0.89
2:jP:60:ILE:HG12	1:OM:105:THR:HG21	1.54	0.89
2:kf:294:LEU:HD23	2:kf:295:VAL:HG23	1.54	0.89
2:IH:61:GLY:O	1:mT:103:ARG:HG3	1.72	0.89
2:mn:294:LEU:HD23	2:mn:295:VAL:HG23	1.52	0.89
2:mA:294:LEU:HD23	2:mA:295:VAL:HG23	1.54	0.89
2:op:106:MET:HE3	2:op:184:TYR:HD1	1.36	0.89
2:pH:106:MET:HE3	2:pH:184:TYR:HD1	1.36	0.89
4:qm:116:PHE:CE1	4:qn:202:ILE:CD1	2.55	0.89
6:qq:126:GLN:HB3	5:qL:252:LEU:CD2	2.00	0.89
6:qA:112:LEU:HD22	6:qC:58:LEU:HD11	0.90	0.89
6:qG:112:LEU:HD22	6:qI:58:LEU:HD11	0.90	0.89
1:ac:103:ARG:HG3	2:OT:61:GLY:O	1.72	0.89
1:aD:99:LEU:CA	1:hm:102:GLU:OE1	2.20	0.89
1:aR:99:LEU:CA	1:je:102:GLU:OE1	2.20	0.89
1:aR:103:ARG:HG3	2:bl:61:GLY:O	1.72	0.89
2:bm:5:THR:HG22	1:dn:87:ASP:HB3	1.52	0.89
1:cK:99:LEU:CA	1:IC:102:GLU:OE1	2.20	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cX:99:LEU:HD22	1:gx:102:GLU:CB	1.98	0.89
1:dD:100:LYS:HZ3	1:fd:100:LYS:HG2	1.24	0.89
1:eb:99:LEU:CD2	1:ft:60:ARG:HE	1.86	0.89
1:eo:99:LEU:HD21	1:nZ:102:GLU:CG	2.01	0.89
1:ft:99:LEU:CD2	1:nW:60:ARG:HE	1.86	0.89
2:fb:5:THR:HG22	1:me:87:ASP:HB3	1.53	0.89
1:fH:60:ARG:CZ	1:mq:99:LEU:CG	2.51	0.89
2:fO:61:GLY:O	1:lP:103:ARG:O	1.91	0.89
1:fV:60:ARG:HE	1:nu:99:LEU:CD2	1.86	0.89
1:gw:99:LEU:CD2	1:pd:102:GLU:CG	2.48	0.89
2:gW:294:LEU:HD23	2:gW:295:VAL:HG23	1.53	0.89
1:hz:99:LEU:HD21	1:kN:102:GLU:CG	2.01	0.89
1:ip:105:THR:HG21	2:lu:60:ILE:HG12	1.54	0.89
2:iA:294:LEU:HD23	2:iA:295:VAL:HG23	1.52	0.89
1:jg:103:ARG:HG3	2:lt:61:GLY:O	1.72	0.89
1:jI:99:LEU:CA	1:oj:102:GLU:OE1	2.20	0.89
1:jU:99:LEU:HD21	1:pT:102:GLU:CG	2.01	0.89
2:kc:61:GLY:O	1:ln:103:ARG:HG3	1.72	0.89
2:lF:106:MET:HE3	2:lF:184:TYR:HD1	1.36	0.89
2:or:61:GLY:O	1:pR:103:ARG:O	1.91	0.89
3:qe:66:GLN:N	4:qm:9:GLY:C	2.28	0.89
3:qf:66:GLN:H	4:ql:10:GLN:N	1.69	0.89
4:qj:177:MET:SD	4:qk:250:GLY:O	0.53	0.89
5:qJ:392:LEU:CD1	5:qL:400:TYR:CE1	2.49	0.89
1:ab:60:ARG:HE	1:mE:99:LEU:CD2	1.86	0.89
1:aQ:99:LEU:CA	1:dk:102:GLU:OE1	2.20	0.89
1:aQ:60:ARG:NH2	1:jf:99:LEU:HD11	1.88	0.89
1:aQ:60:ARG:HE	1:jf:99:LEU:CD2	1.86	0.89
1:aQ:99:LEU:HD22	1:ch:60:ARG:HE	1.36	0.89
1:aS:87:ASP:HB3	2:iL:5:THR:HG22	1.53	0.89
2:bp:294:LEU:HD23	2:bp:295:VAL:HG23	1.52	0.89
1:bU:99:LEU:CA	1:eQ:102:GLU:OE1	2.20	0.89
2:cT:294:LEU:HD23	2:cT:295:VAL:HG23	1.54	0.89
1:cX:60:ARG:HE	1:dz:99:LEU:HD22	1.36	0.89
1:cZ:87:ASP:HB3	2:eL:5:THR:HG22	1.52	0.89
2:df:60:ILE:HG12	1:gx:105:THR:HG21	1.54	0.89
1:dN:99:LEU:HD11	1:pC:60:ARG:NH2	1.88	0.89
1:eb:105:THR:HG21	2:oe:60:ILE:HG12	1.54	0.89
1:ep:102:GLU:CB	1:pa:99:LEU:HD22	1.98	0.89
1:eq:103:ARG:O	2:gE:61:GLY:O	1.91	0.89
2:ex:5:THR:HG22	1:gz:87:ASP:HB3	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ft:99:LEU:CG	1:nW:60:ARG:CZ	2.51	0.89
2:fy:106:MET:HE3	2:fy:184:TYR:HD1	1.36	0.89
1:fH:99:LEU:CG	1:gZ:60:ARG:CZ	2.51	0.89
2:fO:61:GLY:O	1:lP:103:ARG:HG3	1.73	0.89
1:fU:102:GLU:OE1	1:md:99:LEU:CA	2.20	0.89
1:fV:99:LEU:HD22	1:mc:102:GLU:CB	1.98	0.89
1:gw:99:LEU:HD21	1:pd:102:GLU:CG	2.01	0.89
2:gI:294:LEU:HD23	2:gI:295:VAL:HG23	1.52	0.89
1:hn:60:ARG:HE	1:kK:99:LEU:HD22	1.36	0.89
2:ig:106:MET:HE3	2:ig:184:TYR:HD1	1.36	0.89
1:jH:60:ARG:HE	1:ok:99:LEU:CD2	1.86	0.89
2:jO:61:GLY:O	1:pD:103:ARG:HG3	1.73	0.89
1:kY:99:LEU:HD11	1:oy:60:ARG:NH2	1.88	0.89
1:mr:103:ARG:HG3	2:oF:61:GLY:O	1.73	0.89
1:ok:60:ARG:CZ	1:oM:99:LEU:CG	2.51	0.89
2:pf:106:MET:HE3	2:pf:184:TYR:HD1	1.36	0.89
3:qi:65:GLY:H	4:qo:10:GLN:CD	1.80	0.89
5:qB:96:ARG:HD3	5:qD:114:LEU:HD23	1.51	0.89
1:ap:99:LEU:CG	1:hN:60:ARG:CZ	2.51	0.89
1:aC:105:THR:HG21	2:hu:60:ILE:HG12	1.54	0.89
2:aX:61:GLY:O	1:iE:103:ARG:HG3	1.72	0.89
2:bm:60:ILE:HG12	1:iR:105:THR:HG21	1.54	0.89
1:bs:99:LEU:HD22	1:eR:102:GLU:CB	1.98	0.89
1:bJ:102:GLU:CG	1:lN:99:LEU:HD21	2.01	0.89
2:bM:61:GLY:O	1:hB:103:ARG:HG3	1.72	0.89
2:cr:294:LEU:HD23	2:cr:295:VAL:HG23	1.54	0.89
1:cv:60:ARG:HE	1:pC:99:LEU:CD2	1.86	0.89
1:cK:103:ARG:HG3	2:eY:61:GLY:O	1.73	0.89
1:cX:102:GLU:CB	1:dz:99:LEU:HD22	1.98	0.89
1:dz:60:ARG:HE	1:gx:99:LEU:CD2	1.86	0.89
2:dJ:294:LEU:HD23	2:dJ:295:VAL:HG23	1.54	0.89
1:dQ:102:GLU:CG	1:jG:99:LEU:HD21	2.01	0.89
1:eq:103:ARG:HG3	2:gE:61:GLY:O	1.73	0.89
1:fU:99:LEU:CD2	1:mt:102:GLU:CG	2.48	0.89
2:gS:61:GLY:O	1:ic:103:ARG:HG3	1.72	0.89
1:gZ:99:LEU:HD11	1:mq:60:ARG:NH2	1.88	0.89
1:gZ:99:LEU:HD22	1:mq:102:GLU:CB	1.98	0.89
2:hs:107:GLY:H	5:qB:178:PRO:CG	1.85	0.89
1:hA:60:ARG:CZ	1:lO:99:LEU:CG	2.51	0.89
2:hX:294:LEU:HD23	2:hX:295:VAL:HG23	1.54	0.89
1:iS:103:ARG:HG3	2:jm:61:GLY:O	1.73	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jp:294:LEU:HD23	2:jp:295:VAL:HG23	1.54	0.89
1:js:99:LEU:HD21	1:ld:102:GLU:CG	2.01	0.89
1:jt:99:LEU:HD22	1:mS:102:GLU:CB	1.98	0.89
1:ju:103:ARG:HG3	2:pX:61:GLY:O	1.72	0.89
1:kY:99:LEU:HD22	1:oy:102:GLU:CB	1.98	0.89
1:mc:99:LEU:CG	1:nu:60:ARG:CZ	2.51	0.89
2:nd:294:LEU:HD23	2:nd:295:VAL:HG23	1.52	0.89
2:pk:294:LEU:HD23	2:pk:295:VAL:HG23	1.54	0.89
3:qf:68:ALA:H	4:ql:8:TYR:HE2	0.91	0.89
5:qr:255:VAL:HG12	5:qt:263:ALA:HB1	1.55	0.89
5:qx:394:ILE:HD12	5:qz:405:ILE:CG2	1.88	0.89
5:qD:255:VAL:HG12	5:qF:263:ALA:HB1	1.55	0.89
1:ap:60:ARG:CZ	1:dl:99:LEU:CG	2.51	0.89
2:ba:294:LEU:HD23	2:ba:295:VAL:HG23	1.54	0.89
1:bs:60:ARG:HE	1:bT:99:LEU:HD22	1.36	0.89
1:bs:105:THR:HG21	2:cb:60:ILE:HG12	1.54	0.89
1:bG:99:LEU:CG	1:gL:60:ARG:CZ	2.51	0.89
2:bP:294:LEU:HD23	2:bP:295:VAL:HG23	1.54	0.89
1:cv:105:THR:HG21	2:pK:60:ILE:HG12	1.54	0.89
2:dK:294:LEU:HD23	2:dK:295:VAL:HG23	1.52	0.89
2:dV:5:THR:HG22	1:nK:87:ASP:HB3	1.52	0.89
1:ep:60:ARG:HE	1:pa:99:LEU:CD2	1.86	0.89
1:eD:99:LEU:CD2	1:ib:60:ARG:HE	1.86	0.89
2:eK:61:GLY:O	1:gk:103:ARG:HG3	1.72	0.89
1:ff:60:ARG:CZ	1:ib:99:LEU:CG	2.51	0.89
2:fm:61:GLY:O	1:gy:103:ARG:HG3	1.72	0.89
2:fM:106:MET:HE3	2:fM:184:TYR:HD1	1.36	0.89
1:fY:102:GLU:CG	1:mp:99:LEU:CD2	2.48	0.89
2:gH:294:LEU:HD23	2:gH:295:VAL:HG23	1.55	0.89
2:gS:61:GLY:O	1:ic:103:ARG:O	1.91	0.89
2:ht:61:GLY:O	1:kk:103:ARG:HG3	1.73	0.89
1:jr:102:GLU:CD	1:lq:99:LEU:CD2	2.40	0.89
1:jt:60:ARG:HE	1:jV:99:LEU:CD2	1.86	0.89
1:ju:103:ARG:O	2:pX:61:GLY:O	1.91	0.89
1:jH:99:LEU:CD2	1:oM:60:ARG:HE	1.86	0.89
2:lw:294:LEU:HD23	2:lw:295:VAL:HG23	1.54	0.89
2:mv:106:MET:HE3	2:mv:184:TYR:HD1	1.36	0.89
2:mL:61:GLY:O	1:ol:103:ARG:HG3	1.72	0.89
1:nI:99:LEU:HD22	1:pa:60:ARG:HE	1.36	0.89
2:ob:106:MET:HE3	2:ob:184:TYR:HD1	1.36	0.89
3:qe:61:ASP:O	4:qm:33:SER:HB2	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qf:63:GLN:HE22	4:qk:222:GLY:H	1.12	0.89
5:qz:96:ARG:HD3	5:qB:114:LEU:HD23	1.51	0.89
1:ab:99:LEU:HD22	1:ng:60:ARG:HE	1.36	0.89
2:aj:5:THR:HG22	1:oO:87:ASP:HB3	1.52	0.89
2:av:61:GLY:O	1:bH:103:ARG:O	1.91	0.89
1:be:99:LEU:HD22	1:iR:60:ARG:HE	1.36	0.89
1:bs:99:LEU:CG	1:eR:60:ARG:CZ	2.51	0.89
1:bt:103:ARG:O	2:hU:61:GLY:O	1.91	0.89
2:bz:61:GLY:O	1:cY:103:ARG:O	1.91	0.89
2:bM:197:LYS:HZ2	1:gM:100:LYS:N	1.70	0.89
1:bT:60:ARG:HE	1:eR:99:LEU:HD22	1.36	0.89
1:cI:102:GLU:OE1	1:pp:99:LEU:CA	2.20	0.89
2:cR:60:ILE:HG12	1:po:105:THR:HG21	1.54	0.89
1:cX:60:ARG:HE	1:dz:99:LEU:CD2	1.86	0.89
1:dN:99:LEU:CG	1:pC:60:ARG:CZ	2.51	0.89
1:ep:60:ARG:NH2	1:pa:99:LEU:HD11	1.88	0.89
1:ep:99:LEU:CD2	1:nI:60:ARG:HE	1.86	0.89
2:fp:294:LEU:HD23	2:fp:295:VAL:HG23	1.55	0.89
1:fW:103:ARG:O	2:ii:61:GLY:O	1.91	0.89
2:hh:5:THR:HG22	1:ky:87:ASP:HB3	1.52	0.89
1:hp:87:ASP:HB3	2:kq:5:THR:HG22	1.52	0.89
1:hA:99:LEU:HD11	1:kw:60:ARG:NH2	1.88	0.89
1:hA:105:THR:HG21	2:lW:60:ILE:HG12	1.54	0.89
1:iR:99:LEU:CD2	1:kj:60:ARG:HE	1.86	0.89
1:jG:102:GLU:OE1	1:oN:99:LEU:CA	2.20	0.89
2:jR:294:LEU:HD23	2:jR:295:VAL:HG23	1.54	0.89
1:kY:60:ARG:CZ	1:lA:99:LEU:CG	2.51	0.89
1:kY:99:LEU:CG	1:oy:60:ARG:CZ	2.51	0.89
2:nn:61:GLY:O	1:oz:103:ARG:O	1.91	0.89
3:qg:66:GLN:C	4:qk:194:LEU:HD12	1.98	0.89
3:qi:65:GLY:C	4:qo:10:GLN:NE2	2.31	0.89
4:qk:116:PHE:CE1	4:ql:202:ILE:CD1	2.55	0.89
5:qx:255:VAL:HG12	5:qz:263:ALA:HB1	1.55	0.89
1:aC:60:ARG:HE	1:hn:99:LEU:CD2	1.86	0.89
1:aC:99:LEU:HD11	1:kK:60:ARG:NH2	1.88	0.89
1:aQ:99:LEU:CD2	1:ch:60:ARG:HE	1.86	0.89
2:aY:5:THR:HG22	1:bg:87:ASP:HB3	1.52	0.89
1:bs:99:LEU:CD2	1:eR:60:ARG:HE	1.86	0.89
1:bs:99:LEU:HD22	1:eR:60:ARG:HE	1.36	0.89
1:bG:60:ARG:CZ	1:gj:99:LEU:CG	2.51	0.89
2:ca:61:GLY:O	1:dm:103:ARG:HG3	1.73	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cg:102:GLU:OE1	1:jg:99:LEU:CA	2.20	0.89
1:dk:99:LEU:CD2	1:km:102:GLU:CG	2.48	0.89
2:dU:61:GLY:O	1:oN:103:ARG:O	1.91	0.89
2:eg:106:MET:HE3	2:eg:184:TYR:HD1	1.36	0.89
2:fb:294:LEU:HD23	2:fb:295:VAL:HG23	1.55	0.89
1:fg:99:LEU:C	2:ii:197:LYS:HZ2	1.80	0.89
1:fg:103:ARG:HG3	2:nB:61:GLY:O	1.73	0.89
1:ft:99:LEU:HD22	1:nW:60:ARG:HE	1.36	0.89
1:fu:103:ARG:HG3	2:mj:61:GLY:O	1.73	0.89
2:gd:5:THR:HG22	1:id:87:ASP:HB3	1.52	0.89
2:gf:294:LEU:HD23	2:gf:295:VAL:HG23	1.54	0.89
1:gj:102:GLU:CB	1:gL:99:LEU:HD22	1.98	0.89
2:hx:96:LEU:CG	5:qz:47:ARG:HD2	2.03	0.89
2:hx:189:LYS:HD2	5:qx:51:GLU:CG	2.00	0.89
2:hK:104:GLN:CD	5:qv:32:PHE:HE2	1.78	0.89
1:js:102:GLU:OE1	1:mT:99:LEU:CA	2.20	0.89
2:nc:294:LEU:HD23	2:nc:295:VAL:HG23	1.54	0.89
1:nJ:103:ARG:O	2:od:61:GLY:O	1.91	0.89
6:qq:50:LEU:CD2	6:qM:109:SER:O	2.19	0.89
6:qq:112:LEU:HD22	6:qs:58:LEU:HD11	0.90	0.89
5:qr:252:LEU:CD2	6:qu:126:GLN:HB3	2.00	0.89
5:qr:392:LEU:CD1	5:qt:400:TYR:CE1	2.49	0.89
1:ap:60:ARG:HE	1:dl:99:LEU:CD2	1.86	0.89
1:aC:60:ARG:HE	1:hn:99:LEU:HD22	1.36	0.89
1:aQ:105:THR:HG21	2:jn:60:ILE:HG12	1.54	0.89
2:bD:294:LEU:HD23	2:bD:295:VAL:HG23	1.53	0.89
1:bT:60:ARG:CZ	1:eR:99:LEU:CG	2.51	0.89
2:co:197:LYS:HZ2	1:jg:100:LYS:N	1.70	0.89
1:cw:103:ARG:O	2:cQ:61:GLY:O	1.91	0.89
1:cJ:60:ARG:HE	1:iD:99:LEU:CD2	1.86	0.89
1:cJ:99:LEU:CD2	1:po:60:ARG:HE	1.86	0.89
2:de:61:GLY:O	1:eE:103:ARG:O	1.91	0.89
2:el:294:LEU:HD23	2:el:295:VAL:HG23	1.54	0.89
1:ep:99:LEU:HD22	1:nI:102:GLU:CB	1.98	0.89
2:eO:294:LEU:HD23	2:eO:295:VAL:HG23	1.52	0.89
1:ft:99:LEU:HD11	1:nW:60:ARG:NH2	1.88	0.89
1:gZ:99:LEU:HD22	1:mq:60:ARG:HE	1.36	0.89
1:hm:99:LEU:HG	1:iU:102:GLU:HG3	1.41	0.89
1:ip:60:ARG:CZ	1:lm:99:LEU:CG	2.51	0.89
1:is:102:GLU:CG	1:oj:99:LEU:CD2	2.48	0.89
1:jt:60:ARG:HE	1:jV:99:LEU:HD22	1.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ko:106:MET:HE3	2:ko:184:TYR:HD1	1.36	0.89
1:kY:99:LEU:CD2	1:oy:60:ARG:HE	1.86	0.89
1:nI:99:LEU:CD2	1:pa:60:ARG:HE	1.86	0.89
3:qg:55:GLU:CD	4:qk:223:ASN:ND2	2.31	0.89
4:qn:116:PHE:CE1	4:qo:202:ILE:CD1	2.55	0.89
5:qz:394:ILE:HD12	5:qB:405:ILE:CG2	1.88	0.89
5:qB:255:VAL:HG12	5:qD:263:ALA:HB1	1.55	0.89
1:ab:99:LEU:CG	1:ng:60:ARG:CZ	2.51	0.88
1:ac:103:ARG:O	2:oT:61:GLY:O	1.91	0.88
1:aF:102:GLU:CG	1:mR:99:LEU:HD21	2.01	0.88
1:be:60:ARG:CZ	1:kj:99:LEU:CG	2.51	0.88
1:be:60:ARG:NH2	1:kj:99:LEU:HD11	1.88	0.88
1:be:99:LEU:CG	1:iR:60:ARG:CZ	2.51	0.88
1:be:105:THR:HG21	2:kq:60:ILE:HG12	1.54	0.88
1:bf:103:ARG:HG3	2:ds:61:GLY:O	1.73	0.88
1:ch:99:LEU:CD2	1:jf:102:GLU:CB	2.52	0.88
2:co:61:GLY:O	1:iq:103:ARG:O	1.91	0.88
1:cv:99:LEU:CG	1:dN:60:ARG:CZ	2.51	0.88
1:cX:99:LEU:CD2	1:gx:60:ARG:HE	1.86	0.88
1:dz:60:ARG:NH2	1:gx:99:LEU:HD11	1.88	0.88
1:ep:99:LEU:HD22	1:nI:60:ARG:HE	1.36	0.88
1:eD:60:ARG:HE	1:ff:99:LEU:CD2	1.86	0.88
1:ff:102:GLU:CB	1:ib:99:LEU:HD22	1.98	0.88
2:fm:61:GLY:O	1:gy:103:ARG:O	1.91	0.88
1:fH:60:ARG:HE	1:mq:99:LEU:CD2	1.86	0.88
1:fV:99:LEU:CD2	1:mc:60:ARG:HE	1.86	0.88
1:fV:102:GLU:CB	1:nu:99:LEU:HD22	1.98	0.88
1:gZ:99:LEU:CD2	1:mq:60:ARG:HE	1.86	0.88
1:ho:103:ARG:HG3	2:hG:61:GLY:O	1.73	0.88
1:ho:103:ARG:O	2:hG:61:GLY:O	1.91	0.88
1:hD:102:GLU:CG	1:kJ:99:LEU:HD21	2.01	0.88
1:ip:60:ARG:HE	1:lm:99:LEU:CD2	1.86	0.88
1:ip:99:LEU:CD2	1:pQ:102:GLU:CB	2.52	0.88
1:kw:99:LEU:CD2	1:lO:60:ARG:HE	1.86	0.88
1:lm:60:ARG:CZ	1:pQ:99:LEU:CG	2.51	0.88
1:lA:60:ARG:NH2	1:oy:99:LEU:HD11	1.88	0.88
2:IL:294:LEU:HD23	2:IL:295:VAL:HG23	1.52	0.88
2:nn:61:GLY:O	1:oz:103:ARG:HG3	1.72	0.88
2:pl:294:LEU:HD23	2:pl:295:VAL:HG23	1.53	0.88
2:qa:294:LEU:HD23	2:qa:295:VAL:HG23	1.54	0.88
5:qH:255:VAL:HG12	5:qJ:263:ALA:HB1	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aa:99:LEU:HG	1:fw:102:GLU:HG3	1.41	0.88
1:ab:60:ARG:CZ	1:mE:99:LEU:CG	2.51	0.88
1:ar:87:ASP:HB3	2:bN:5:THR:HG22	1.52	0.88
1:aC:99:LEU:CD2	1:kK:60:ARG:HE	1.86	0.88
1:bs:60:ARG:HE	1:bT:99:LEU:CD2	1.86	0.88
1:bt:103:ARG:HG3	2:hU:61:GLY:O	1.73	0.88
1:bU:100:LYS:N	2:eY:197:LYS:HZ2	1.70	0.88
1:ch:99:LEU:CD2	1:jf:60:ARG:HE	1.86	0.88
1:ci:103:ARG:HG3	2:pv:61:GLY:O	1.72	0.88
1:cv:99:LEU:CD2	1:dN:102:GLU:CB	2.52	0.88
1:dl:105:THR:HG21	2:hV:60:ILE:HG12	1.54	0.88
2:dv:294:LEU:HD23	2:dv:295:VAL:HG23	1.54	0.88
1:dM:99:LEU:HG	1:jK:102:GLU:HG3	1.41	0.88
1:dO:103:ARG:HG3	2:nP:61:GLY:O	1.73	0.88
1:eb:102:GLU:CB	1:nW:99:LEU:CD2	2.52	0.88
1:ep:60:ARG:CZ	1:pa:99:LEU:CG	2.51	0.88
1:ep:60:ARG:HE	1:pa:99:LEU:HD22	1.36	0.88
1:eC:102:GLU:OE1	1:ic:99:LEU:CA	2.20	0.88
1:ft:99:LEU:CD2	1:nW:102:GLU:CB	2.52	0.88
2:fB:60:ILE:HG12	1:nW:105:THR:HG21	1.54	0.88
1:hn:102:GLU:CB	1:kK:99:LEU:CD2	2.52	0.88
1:hA:99:LEU:CD2	1:kw:102:GLU:CB	2.52	0.88
1:iD:60:ARG:HE	1:po:99:LEU:CD2	1.86	0.88
2:iN:294:LEU:HD23	2:iN:295:VAL:HG23	1.55	0.88
1:jV:60:ARG:HE	1:mS:99:LEU:CD2	1.86	0.88
1:kY:102:GLU:CB	1:lA:99:LEU:CD2	2.52	0.88
1:lm:102:GLU:CB	1:pQ:99:LEU:CD2	2.52	0.88
1:mb:102:GLU:OE1	1:nv:99:LEU:CA	2.20	0.88
1:mc:99:LEU:CD2	1:nu:60:ARG:HE	1.86	0.88
1:ok:60:ARG:NH2	1:oM:99:LEU:HD11	1.88	0.88
3:qd:61:ASP:O	4:qn:33:SER:HB2	1.72	0.88
3:qh:61:ASP:C	4:qj:33:SER:OG	2.16	0.88
3:qi:66:GLN:H	4:qo:10:GLN:HG2	1.10	0.88
5:qJ:255:VAL:HG12	5:qL:263:ALA:HB1	1.55	0.88
1:aD:103:ARG:HG3	2:iY:61:GLY:O	1.73	0.88
1:aF:99:LEU:C	2:kd:197:LYS:HD2	1.99	0.88
1:be:60:ARG:HE	1:kj:99:LEU:CD2	1.86	0.88
1:bs:102:GLU:CB	1:bT:99:LEU:CD2	2.52	0.88
2:de:61:GLY:O	1:eE:103:ARG:HG3	1.72	0.88
2:dH:197:LYS:HD2	1:pd:99:LEU:C	1.99	0.88
1:dM:102:GLU:OE1	1:pD:99:LEU:CA	2.20	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dV:60:ILE:HG12	1:pC:105:THR:HG21	1.54	0.88
1:eb:60:ARG:HE	1:nW:99:LEU:CD2	1.86	0.88
1:eb:99:LEU:CD2	1:ft:102:GLU:CB	2.52	0.88
1:eD:60:ARG:CZ	1:ff:99:LEU:CG	2.51	0.88
1:eD:99:LEU:HD11	1:ib:60:ARG:NH2	1.88	0.88
1:eD:99:LEU:CD2	1:ib:102:GLU:CB	2.52	0.88
1:eD:99:LEU:CG	1:ib:60:ARG:CZ	2.51	0.88
1:fH:60:ARG:HE	1:mq:99:LEU:HD22	1.36	0.88
2:gd:60:ILE:HG12	1:mc:105:THR:HG21	1.54	0.88
1:ha:103:ARG:O	2:kD:61:GLY:O	1.91	0.88
1:hn:60:ARG:HE	1:kK:99:LEU:CD2	1.86	0.88
1:hA:102:GLU:CB	1:lO:99:LEU:CD2	2.52	0.88
1:iD:102:GLU:CB	1:po:99:LEU:CD2	2.52	0.88
1:jt:99:LEU:CD2	1:mS:60:ARG:HE	1.86	0.88
2:jA:61:GLY:O	1:kZ:103:ARG:HG3	1.72	0.88
2:jE:294:LEU:HD23	2:jE:295:VAL:HG23	1.52	0.88
1:jY:99:LEU:C	2:lu:197:LYS:HD2	1.99	0.88
2:kc:61:GLY:O	1:ln:103:ARG:O	1.91	0.88
2:kS:197:LYS:HD2	1:mV:99:LEU:C	1.99	0.88
2:lf:61:GLY:O	1:mF:103:ARG:O	1.91	0.88
1:lm:60:ARG:HE	1:pQ:99:LEU:HD22	1.36	0.88
1:lA:60:ARG:HE	1:oy:99:LEU:CD2	1.86	0.88
1:lA:60:ARG:HE	1:oy:99:LEU:HD22	1.36	0.88
1:lA:102:GLU:CB	1:oy:99:LEU:CD2	2.52	0.88
1:mE:60:ARG:HE	1:ng:99:LEU:CD2	1.86	0.88
2:ov:294:LEU:HD23	2:ov:295:VAL:HG23	1.52	0.88
4:qj:116:PHE:CE1	4:qk:202:ILE:CD1	2.55	0.88
4:ql:116:PHE:CE1	4:qm:202:ILE:CD1	2.55	0.88
1:aa:102:GLU:OE1	1:nh:99:LEU:CA	2.20	0.88
2:av:61:GLY:O	1:bH:103:ARG:HG3	1.72	0.88
1:aB:102:GLU:OE1	1:kL:99:LEU:CA	2.20	0.88
2:bA:197:LYS:HD2	1:hQ:99:LEU:C	1.99	0.88
1:cv:60:ARG:CZ	1:pC:99:LEU:CG	2.51	0.88
2:cD:60:ILE:HG12	1:dN:105:THR:HG21	1.54	0.88
1:cJ:102:GLU:CB	1:iD:99:LEU:CD2	2.52	0.88
2:dU:61:GLY:O	1:oN:103:ARG:HG3	1.72	0.88
1:eb:60:ARG:HE	1:nW:99:LEU:HD22	1.36	0.88
1:ep:99:LEU:CD2	1:nI:102:GLU:CB	2.52	0.88
2:eK:61:GLY:O	1:gk:103:ARG:O	1.91	0.88
2:fn:197:LYS:HD2	1:nx:99:LEU:C	1.99	0.88
1:gJ:60:ARG:HE	1:gL:99:LEU:CD2	1.86	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ha:103:ARG:HG3	2:kD:61:GLY:O	1.72	0.88
1:hA:102:GLU:CB	1:lO:99:LEU:HD22	1.98	0.88
1:ip:99:LEU:HD11	1:pQ:60:ARG:NH2	1.88	0.88
2:jn:197:LYS:HD2	1:lp:99:LEU:C	1.99	0.88
2:jB:60:ILE:HG12	1:mS:105:THR:HG21	1.54	0.88
1:jV:60:ARG:CZ	1:mS:99:LEU:CG	2.51	0.88
1:kw:99:LEU:CD2	1:lO:102:GLU:CB	2.52	0.88
1:mc:99:LEU:CD2	1:nu:102:GLU:CB	2.52	0.88
1:mD:99:LEU:HG	1:oP:102:GLU:HG3	1.41	0.88
1:mE:102:GLU:CB	1:ng:99:LEU:CD2	2.52	0.88
1:nJ:103:ARG:HG3	2:od:61:GLY:O	1.72	0.88
1:ab:99:LEU:HD22	1:ng:102:GLU:CB	1.98	0.88
1:ap:102:GLU:CB	1:dl:99:LEU:CD2	2.52	0.88
1:aq:103:ARG:O	2:kp:61:GLY:O	1.91	0.88
1:aq:103:ARG:HG3	2:kp:61:GLY:O	1.73	0.88
2:aK:197:LYS:HD2	1:iU:99:LEU:C	1.99	0.88
1:aQ:99:LEU:CD2	1:ch:102:GLU:CB	2.52	0.88
1:bd:102:GLU:OE1	1:iS:99:LEU:CA	2.20	0.88
1:bf:103:ARG:O	2:ds:61:GLY:O	1.91	0.88
1:bG:99:LEU:HD22	1:gL:102:GLU:CB	1.98	0.88
1:ci:103:ARG:O	2:pv:61:GLY:O	1.91	0.88
2:cp:197:LYS:HD2	1:pr:99:LEU:C	1.99	0.88
1:cJ:60:ARG:CZ	1:iD:99:LEU:CG	2.51	0.88
1:dm:99:LEU:CA	1:hM:102:GLU:OE1	2.20	0.88
1:eq:99:LEU:CA	1:oZ:102:GLU:OE1	2.20	0.88
2:ex:197:LYS:HD2	1:gA:99:LEU:C	1.99	0.88
1:eD:102:GLU:CB	1:ff:99:LEU:CD2	2.52	0.88
1:fg:103:ARG:O	2:nB:61:GLY:O	1.91	0.88
1:fi:99:LEU:C	2:gF:197:LYS:HD2	1.99	0.88
2:fD:294:LEU:HD23	2:fD:295:VAL:HG23	1.54	0.88
2:fP:197:LYS:HD2	1:fY:99:LEU:C	1.99	0.88
1:fV:99:LEU:CG	1:mc:60:ARG:CZ	2.51	0.88
1:iD:60:ARG:CZ	1:po:99:LEU:CG	2.51	0.88
1:iE:99:LEU:CA	1:pn:102:GLU:OE1	2.20	0.88
2:iI:106:MET:HE3	2:iI:184:TYR:HD1	1.36	0.88
1:iR:99:LEU:CD2	1:kj:102:GLU:CB	2.52	0.88
2:jk:106:MET:HE3	2:jk:184:TYR:HD1	1.36	0.88
1:jH:99:LEU:CG	1:oM:60:ARG:CZ	2.51	0.88
1:jH:105:THR:HG21	2:os:60:ILE:HG12	1.54	0.88
1:kY:99:LEU:CD2	1:oy:102:GLU:CB	2.52	0.88
2:lf:61:GLY:O	1:mF:103:ARG:HG3	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IH:61:GLY:O	1:mT:103:ARG:O	1.91	0.88
2:nl:106:MET:HE3	2:nl:184:TYR:HD1	1.36	0.88
1:nI:99:LEU:CD2	1:pa:102:GLU:CB	2.52	0.88
3:qe:65:GLY:N	4:qm:10:GLN:CD	2.29	0.88
5:qv:255:VAL:HG12	5:qx:263:ALA:HB1	1.55	0.88
6:qK:112:LEU:CD2	6:qM:58:LEU:HD11	1.44	0.88
1:ap:60:ARG:NH2	1:dl:99:LEU:HD11	1.88	0.88
2:az:183:ILE:CB	5:qH:178:PRO:HB2	2.02	0.88
1:bU:103:ARG:HG3	2:iK:61:GLY:O	1.72	0.88
2:cC:61:GLY:O	1:pb:103:ARG:O	1.91	0.88
2:ej:60:ILE:HG12	1:ft:105:THR:HG21	1.54	0.88
1:fH:99:LEU:CD2	1:gZ:60:ARG:HE	1.86	0.88
1:fH:99:LEU:CD2	1:gZ:102:GLU:CB	2.52	0.88
2:gt:294:LEU:HD23	2:gt:295:VAL:HG23	1.54	0.88
1:hq:99:LEU:C	2:kq:197:LYS:HD2	1.99	0.88
1:ip:99:LEU:CD2	1:pQ:60:ARG:HE	1.86	0.88
1:ip:102:GLU:CB	1:lm:99:LEU:CD2	2.52	0.88
1:iR:99:LEU:CG	1:kj:60:ARG:CZ	2.51	0.88
1:jt:60:ARG:CZ	1:jV:99:LEU:CG	2.51	0.88
1:jt:99:LEU:CD2	1:mS:102:GLU:CB	2.52	0.88
1:jH:99:LEU:HD11	1:oM:60:ARG:NH2	1.88	0.88
2:jO:61:GLY:O	1:pD:103:ARG:O	1.91	0.88
2:kG:294:LEU:HD23	2:kG:295:VAL:HG23	1.55	0.88
1:kW:100:LYS:CG	1:mW:100:LYS:HZ3	1.84	0.88
1:kX:102:GLU:OE1	1:oz:99:LEU:CA	2.20	0.88
1:lb:99:LEU:C	2:mM:197:LYS:HD2	1.99	0.88
1:mE:60:ARG:CZ	1:ng:99:LEU:CG	2.51	0.88
2:mL:61:GLY:O	1:ol:103:ARG:O	1.91	0.88
1:on:99:LEU:C	2:pY:197:LYS:HD2	1.99	0.88
3:qe:66:GLN:CB	4:qm:8:TYR:O	2.22	0.88
1:aC:99:LEU:CG	1:kK:60:ARG:CZ	2.51	0.88
2:aJ:61:GLY:O	1:jW:103:ARG:HG3	1.72	0.88
1:aQ:99:LEU:CG	1:ch:60:ARG:CZ	2.51	0.88
1:bv:102:GLU:CG	1:dy:99:LEU:HD21	2.01	0.88
1:bT:102:GLU:CB	1:eR:99:LEU:CD2	2.52	0.88
1:bU:103:ARG:O	2:iK:61:GLY:O	1.91	0.88
1:cw:103:ARG:HG3	2:cQ:61:GLY:O	1.73	0.88
1:cx:87:ASP:HB3	2:pi:5:THR:HG22	1.52	0.88
1:cH:100:LYS:CG	1:cN:100:LYS:HZ3	1.83	0.88
2:dG:61:GLY:O	1:eS:103:ARG:O	1.91	0.88
2:ej:197:LYS:HD2	1:es:99:LEU:C	1.99	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ff:60:ARG:HE	1:ib:99:LEU:CD2	1.86	0.88
1:gj:60:ARG:CZ	1:gL:99:LEU:CG	2.51	0.88
1:gj:102:GLU:CB	1:gL:99:LEU:CD2	2.52	0.88
1:hn:102:GLU:CB	1:kK:99:LEU:HD22	1.98	0.88
2:il:294:LEU:HD23	2:il:295:VAL:HG23	1.54	0.88
2:kt:103:MET:HE2	5:qD:56:ASN:HA	1.56	0.88
1:lm:60:ARG:HE	1:pQ:99:LEU:CD2	1.86	0.88
1:mr:103:ARG:O	2:oF:61:GLY:O	1.91	0.88
2:nE:294:LEU:HD23	2:nE:295:VAL:HG23	1.54	0.88
2:or:61:GLY:O	1:pR:103:ARG:HG3	1.73	0.88
2:pt:106:MET:HE3	2:pt:184:TYR:HD1	1.36	0.88
2:pz:294:LEU:HD23	2:pz:295:VAL:HG23	1.52	0.88
1:ao:102:GLU:OE1	1:hO:99:LEU:CA	2.20	0.88
1:aC:99:LEU:CD2	1:kK:102:GLU:CB	2.52	0.88
1:aD:103:ARG:O	2:iY:61:GLY:O	1.91	0.88
2:aJ:61:GLY:O	1:jW:103:ARG:O	1.91	0.88
2:bb:294:LEU:HD23	2:bb:295:VAL:HG23	1.52	0.88
1:be:60:ARG:HE	1:kj:99:LEU:HD22	1.36	0.88
1:be:99:LEU:CD2	1:iR:60:ARG:HE	1.86	0.88
1:bG:60:ARG:HE	1:gj:99:LEU:CD2	1.86	0.88
1:bG:99:LEU:CD2	1:gL:102:GLU:CB	2.52	0.88
1:bG:99:LEU:CD2	1:gL:60:ARG:HE	1.86	0.88
2:ca:61:GLY:O	1:dm:103:ARG:O	1.91	0.88
1:cW:99:LEU:CD2	1:fi:102:GLU:CG	2.48	0.88
1:dA:103:ARG:HG3	2:ph:61:GLY:O	1.73	0.88
1:ef:100:LYS:HZ3	1:nG:100:LYS:CG	1.83	0.88
1:eo:99:LEU:HG	1:nZ:102:GLU:HG3	1.41	0.88
1:ep:102:GLU:CB	1:pa:99:LEU:CD2	2.52	0.88
2:gq:61:GLY:O	1:hO:103:ARG:O	1.91	0.88
2:hj:294:LEU:HD23	2:hj:295:VAL:HG23	1.54	0.88
2:ht:61:GLY:O	1:kk:103:ARG:O	1.91	0.88
2:hF:31:TYR:CE1	5:qv:178:PRO:HG3	2.08	0.88
2:hH:60:ILE:HG12	1:kw:105:THR:HG21	1.54	0.88
2:iw:61:GLY:O	1:jI:103:ARG:O	1.91	0.88
1:iD:60:ARG:HE	1:po:99:LEU:HD22	1.36	0.88
2:jB:5:THR:HG22	1:pS:87:ASP:HB3	1.52	0.88
1:jH:105:THR:HG21	2:os:60:ILE:CG1	2.04	0.88
1:lA:60:ARG:CZ	1:oy:99:LEU:CG	2.51	0.88
1:lA:105:THR:HG21	2:oG:60:ILE:CG1	2.04	0.88
1:md:103:ARG:HG3	2:mx:61:GLY:O	1.72	0.88
2:ou:294:LEU:HD23	2:ou:295:VAL:HG23	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pw:5:THR:HG22	1:pE:87:ASP:HB3	1.52	0.88
5:qv:394:ILE:HD12	5:qx:405:ILE:CG2	1.88	0.88
1:aC:102:GLU:CB	1:hn:99:LEU:CD2	2.52	0.88
1:bv:99:LEU:C	2:df:197:LYS:HD2	1.99	0.88
2:bN:60:ILE:HG12	1:gL:105:THR:HG21	1.54	0.88
1:bT:60:ARG:HE	1:eR:99:LEU:CD2	1.86	0.88
1:dl:60:ARG:NH2	1:hN:99:LEU:HD11	1.88	0.88
1:dz:60:ARG:CZ	1:gx:99:LEU:CG	2.51	0.88
2:dG:61:GLY:O	1:eS:103:ARG:HG3	1.72	0.88
1:ec:103:ARG:HG3	2:ew:61:GLY:O	1.72	0.88
1:ec:103:ARG:O	2:ew:61:GLY:O	1.91	0.88
1:ep:99:LEU:CG	1:nI:60:ARG:CZ	2.51	0.88
1:eG:99:LEU:C	2:gr:197:LYS:HD2	1.99	0.88
2:fP:60:ILE:CG1	1:gZ:105:THR:HG21	2.04	0.88
1:fV:99:LEU:CD2	1:mc:102:GLU:CB	2.52	0.88
1:gZ:99:LEU:CD2	1:mq:102:GLU:CB	2.52	0.88
1:gZ:99:LEU:CG	1:mq:60:ARG:CZ	2.51	0.88
1:hn:60:ARG:CZ	1:kK:99:LEU:CG	2.51	0.88
2:hs:104:GLN:HE21	5:qB:179:ALA:CB	1.86	0.88
2:hs:106:MET:HE3	2:hs:184:TYR:HD1	1.36	0.88
2:hw:294:LEU:HD23	2:hw:295:VAL:HG23	1.55	0.88
1:jH:99:LEU:CD2	1:oM:102:GLU:CB	2.52	0.88
2:nQ:60:ILE:CG1	1:pa:105:THR:HG21	2.04	0.88
2:og:294:LEU:HD23	2:og:295:VAL:HG23	1.54	0.88
1:pp:103:ARG:O	2:pJ:61:GLY:O	1.91	0.88
3:qi:61:ASP:CA	4:qo:33:SER:HB2	1.99	0.88
5:qp:255:VAL:HG12	5:qr:263:ALA:HB1	1.55	0.88
5:qt:255:VAL:HG12	5:qv:263:ALA:HB1	1.55	0.88
2:ai:61:GLY:O	1:nX:103:ARG:O	1.91	0.88
1:ap:99:LEU:CD2	1:hN:60:ARG:HE	1.86	0.88
2:aw:60:ILE:CG1	1:hN:105:THR:HG21	2.04	0.88
1:aC:60:ARG:CZ	1:hn:99:LEU:CG	2.51	0.88
2:aX:61:GLY:O	1:iE:103:ARG:O	1.91	0.88
2:bm:60:ILE:CG1	1:iR:105:THR:HG21	2.04	0.88
1:bs:99:LEU:CD2	1:eR:102:GLU:CB	2.52	0.88
2:bQ:103:MET:HE2	5:qp:58:GLN:OE1	1.73	0.88
1:cJ:99:LEU:CD2	1:po:102:GLU:CB	2.52	0.88
2:cO:106:MET:HE3	2:cO:184:TYR:HD1	1.36	0.88
1:cX:99:LEU:CG	1:gx:60:ARG:CZ	2.51	0.88
1:dl:60:ARG:HE	1:hN:99:LEU:CD2	1.86	0.88
1:ff:105:THR:HG21	2:ij:60:ILE:CG1	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fI:103:ARG:O	2:gc:61:GLY:O	1.91	0.88
1:fV:60:ARG:CZ	1:nu:99:LEU:CG	2.51	0.88
2:iw:61:GLY:O	1:jI:103:ARG:HG3	1.73	0.88
1:jt:99:LEU:CG	1:mS:60:ARG:CZ	2.51	0.88
1:jH:60:ARG:CZ	1:ok:99:LEU:CG	2.51	0.88
2:kS:5:THR:HG22	1:mU:87:ASP:HB3	1.53	0.88
2:li:294:LEU:HD23	2:li:295:VAL:HG23	1.54	0.88
1:ln:99:LEU:CA	1:pP:102:GLU:OE1	2.20	0.88
2:mm:294:LEU:HD23	2:mm:295:VAL:HG23	1.54	0.88
2:nQ:60:ILE:HG12	1:pa:105:THR:HG21	1.54	0.88
4:qn:177:MET:SD	4:qo:250:GLY:O	0.53	0.88
6:qs:112:LEU:CD2	6:qu:58:LEU:HD11	1.44	0.88
6:qu:112:LEU:HD22	6:qw:58:LEU:HD11	0.90	0.88
1:aQ:60:ARG:CZ	1:jf:99:LEU:CG	2.51	0.87
1:bu:87:ASP:HB3	2:df:5:THR:HG22	1.52	0.87
1:bT:105:THR:HG21	2:eZ:60:ILE:CG1	2.04	0.87
2:bY:106:MET:HE3	2:bY:184:TYR:HD1	1.36	0.87
2:cd:294:LEU:HD23	2:cd:295:VAL:HG23	1.54	0.87
1:cJ:99:LEU:CG	1:po:60:ARG:CZ	2.51	0.87
1:cX:60:ARG:CZ	1:dz:99:LEU:CG	2.51	0.87
1:cX:99:LEU:CD2	1:gx:102:GLU:CB	2.52	0.87
2:dV:197:LYS:HD2	1:nL:99:LEU:C	1.99	0.87
2:gg:294:LEU:HD23	2:gg:295:VAL:HG23	1.52	0.87
1:hA:60:ARG:NH2	1:lO:99:LEU:HD11	1.88	0.87
1:hA:60:ARG:HE	1:lO:99:LEU:CD2	1.86	0.87
1:hA:99:LEU:HD22	1:kw:60:ARG:HE	1.36	0.87
1:hA:105:THR:HG21	2:lW:60:ILE:CG1	2.04	0.87
1:ip:105:THR:HG21	2:lu:60:ILE:CG1	2.04	0.87
2:iZ:5:THR:HG22	1:jh:87:ASP:HB3	1.52	0.87
1:kx:103:ARG:HG3	2:kR:61:GLY:O	1.72	0.87
1:kx:103:ARG:O	2:kR:61:GLY:O	1.91	0.87
2:kE:60:ILE:HG12	1:lO:105:THR:HG21	1.54	0.87
1:kY:60:ARG:HE	1:lA:99:LEU:CD2	1.86	0.87
2:mB:294:LEU:HD23	2:mB:295:VAL:HG23	1.52	0.87
1:mE:102:GLU:CB	1:ng:99:LEU:HD22	1.98	0.87
2:nq:294:LEU:HD23	2:nq:295:VAL:HG23	1.54	0.87
1:nI:99:LEU:CG	1:pa:60:ARG:CZ	2.51	0.87
1:ok:105:THR:HG21	2:oU:60:ILE:CG1	2.04	0.87
1:ok:105:THR:HG21	2:oU:60:ILE:HG12	1.54	0.87
6:qA:112:LEU:CD2	6:qC:58:LEU:HD11	1.44	0.87
6:qE:112:LEU:HD22	6:qG:58:LEU:HD11	0.90	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ab:102:GLU:CB	1:mE:99:LEU:CD2	2.52	0.87
1:ap:105:THR:HG21	2:dt:60:ILE:CG1	2.04	0.87
2:aw:60:ILE:HG12	1:hN:105:THR:HG21	1.54	0.87
2:aw:197:LYS:HD2	1:km:99:LEU:C	1.99	0.87
1:aC:105:THR:HG21	2:hu:60:ILE:CG1	2.04	0.87
1:aR:103:ARG:O	2:bl:61:GLY:O	1.91	0.87
2:aY:60:ILE:CG1	1:ch:105:THR:HG21	2.04	0.87
1:be:99:LEU:CD2	1:iR:102:GLU:CB	2.52	0.87
1:be:102:GLU:CB	1:kj:99:LEU:CD2	2.52	0.87
1:bT:60:ARG:NH2	1:eR:99:LEU:HD11	1.88	0.87
2:co:61:GLY:O	1:iq:103:ARG:HG3	1.72	0.87
1:cJ:60:ARG:NH2	1:iD:99:LEU:HD11	1.88	0.87
1:cK:103:ARG:O	2:eY:61:GLY:O	1.91	0.87
1:dz:105:THR:HG21	2:gF:60:ILE:CG1	2.04	0.87
1:dP:87:ASP:HB3	2:oU:5:THR:HG22	1.52	0.87
2:ei:61:GLY:O	1:nv:103:ARG:O	1.91	0.87
1:fH:105:THR:HG21	2:my:60:ILE:CG1	2.04	0.87
2:gq:61:GLY:O	1:hO:103:ARG:HG3	1.72	0.87
2:gV:294:LEU:HD23	2:gV:295:VAL:HG23	1.54	0.87
1:hA:99:LEU:CD2	1:kw:60:ARG:HE	1.86	0.87
1:hA:99:LEU:CG	1:kw:60:ARG:CZ	2.51	0.87
1:ip:99:LEU:CG	1:pQ:60:ARG:CZ	2.51	0.87
2:iu:106:MET:HE3	2:iu:184:TYR:HD1	1.36	0.87
1:jV:102:GLU:CB	1:mS:99:LEU:CD2	2.52	0.87
2:kt:111:GLY:N	5:qD:178:PRO:CG	2.29	0.87
6:qK:11:GLU:HB3	6:qM:39:ARG:HH11	1.39	0.87
2:au:170:TRP:CZ2	5:qJ:176:ASN:OD1	2.09	0.87
1:bG:102:GLU:CB	1:gj:99:LEU:CD2	2.52	0.87
2:bM:61:GLY:O	1:hB:103:ARG:O	1.91	0.87
2:bN:60:ILE:CG1	1:gL:105:THR:HG21	2.04	0.87
1:cv:105:THR:HG21	2:pK:60:ILE:CG1	2.04	0.87
2:cC:61:GLY:O	1:pb:103:ARG:HG3	1.72	0.87
1:dl:60:ARG:CZ	1:hN:99:LEU:CG	2.51	0.87
1:dC:99:LEU:C	2:eZ:197:LYS:HD2	1.99	0.87
1:dN:99:LEU:CD2	1:pC:60:ARG:HE	1.86	0.87
1:dQ:102:GLU:CG	1:jG:99:LEU:CD2	2.48	0.87
1:fI:103:ARG:HG3	2:gc:61:GLY:O	1.73	0.87
1:fJ:87:ASP:HB3	2:lW:5:THR:HG22	1.52	0.87
1:fV:105:THR:HG21	2:nC:60:ILE:CG1	2.04	0.87
2:gd:60:ILE:CG1	1:mc:105:THR:HG21	2.04	0.87
2:hx:93:ASP:HA	5:qz:44:LYS:HZ1	1.40	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hD:102:GLU:HG3	1:kJ:99:LEU:HG	1.41	0.87
1:kw:99:LEU:CG	1:lO:60:ARG:CZ	2.51	0.87
1:lm:105:THR:HG21	2:pY:60:ILE:CG1	2.04	0.87
2:lY:294:LEU:HD23	2:lY:295:VAL:HG23	1.54	0.87
2:mk:197:LYS:HD2	1:mt:99:LEU:C	1.99	0.87
1:ok:102:GLU:CB	1:oM:99:LEU:CD2	2.52	0.87
4:qk:177:MET:CG	4:ql:250:GLY:O	2.23	0.87
1:ab:99:LEU:CD2	1:ng:102:GLU:CB	2.52	0.87
2:aj:60:ILE:CG1	1:ng:105:THR:HG21	2.04	0.87
1:ap:99:LEU:HD11	1:hN:60:ARG:NH2	1.88	0.87
1:cv:99:LEU:CD2	1:dN:60:ARG:HE	1.86	0.87
2:cF:294:LEU:HD23	2:cF:295:VAL:HG23	1.54	0.87
1:dO:103:ARG:O	2:nP:61:GLY:O	1.91	0.87
1:eb:60:ARG:CZ	1:nW:99:LEU:CG	2.51	0.87
1:eb:105:THR:HG21	2:oe:60:ILE:CG1	2.04	0.87
1:ep:99:LEU:HD11	1:nI:60:ARG:NH2	1.88	0.87
1:ff:102:GLU:CB	1:ib:99:LEU:CD2	2.52	0.87
1:fV:60:ARG:HE	1:nu:99:LEU:HD22	1.36	0.87
2:gd:197:LYS:HD2	1:ie:99:LEU:C	1.99	0.87
1:gj:105:THR:HG21	2:gT:60:ILE:CG1	2.04	0.87
2:hg:61:GLY:O	1:lB:103:ARG:O	1.91	0.87
2:iZ:60:ILE:CG1	1:kj:105:THR:HG21	2.04	0.87
2:ko:31:TYR:OH	5:qF:178:PRO:CD	2.21	0.87
2:ks:294:LEU:HD23	2:ks:295:VAL:HG23	1.54	0.87
2:oI:294:LEU:HD23	2:ol:295:VAL:HG23	1.54	0.87
3:qe:64:GLY:C	4:qm:10:GLN:NE2	2.32	0.87
2:aj:60:ILE:HG12	1:ng:105:THR:HG21	1.54	0.87
1:aC:102:GLU:CB	1:hn:99:LEU:HD22	1.98	0.87
1:aQ:102:GLU:CB	1:jf:99:LEU:CD2	2.52	0.87
1:br:102:GLU:OE1	1:eS:99:LEU:CA	2.20	0.87
2:bQ:182:LEU:HD11	5:qp:176:ASN:OD1	1.75	0.87
2:cD:60:ILE:CG1	1:dN:105:THR:HG21	2.04	0.87
2:dX:294:LEU:HD23	2:dX:295:VAL:HG23	1.54	0.87
2:gC:106:MET:HE3	2:gC:184:TYR:HD1	1.36	0.87
2:hu:197:LYS:HD2	1:hD:99:LEU:C	1.99	0.87
1:iD:105:THR:HG21	2:pw:60:ILE:CG1	2.04	0.87
1:jw:99:LEU:C	2:lg:197:LYS:HD2	1.99	0.87
2:jA:61:GLY:O	1:kZ:103:ARG:O	1.91	0.87
2:jB:60:ILE:CG1	1:mS:105:THR:HG21	2.04	0.87
1:jH:102:GLU:CB	1:ok:99:LEU:CD2	2.52	0.87
2:jP:60:ILE:CG1	1:oM:105:THR:HG21	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jV:105:THR:HG21	2:na:60:ILE:CG1	2.04	0.87
2:kt:107:GLY:C	5:qD:178:PRO:CA	2.48	0.87
2:lg:60:ILE:CG1	1:oy:105:THR:HG21	2.04	0.87
2:mk:60:ILE:CG1	1:nu:105:THR:HG21	2.04	0.87
1:ok:60:ARG:HE	1:oM:99:LEU:CD2	1.86	0.87
3:qd:67:ARG:HB3	4:qn:194:LEU:HD13	1.56	0.87
6:qI:11:GLU:HB3	6:qK:39:ARG:HH11	1.39	0.87
1:ae:99:LEU:C	2:oe:197:LYS:HD2	1.99	0.87
1:as:99:LEU:C	2:bN:197:LYS:HD2	1.99	0.87
2:az:103:MET:CE	5:qJ:32:PHE:HD2	1.84	0.87
1:bs:60:ARG:CZ	1:bT:99:LEU:CG	2.51	0.87
2:bA:60:ILE:CG1	1:eR:105:THR:HG21	2.04	0.87
1:cv:99:LEU:HD11	1:dN:60:ARG:NH2	1.88	0.87
1:cJ:102:GLU:CB	1:iD:99:LEU:HD22	1.98	0.87
1:cX:60:ARG:CZ	1:dz:99:LEU:HD21	2.05	0.87
2:df:60:ILE:CG1	1:gx:105:THR:HG21	2.04	0.87
1:dA:103:ARG:O	2:ph:61:GLY:O	1.91	0.87
2:dS:53:PHE:O	2:dS:255:ARG:NH2	2.08	0.87
1:eb:99:LEU:CG	1:ft:60:ARG:CZ	2.51	0.87
2:fB:60:ILE:CG1	1:nW:105:THR:HG21	2.04	0.87
2:fB:197:LYS:HD2	1:mf:99:LEU:C	1.99	0.87
1:fH:102:GLU:CB	1:mQ:99:LEU:CD2	2.52	0.87
2:hH:60:ILE:CG1	1:kw:105:THR:HG21	2.04	0.87
2:hJ:294:LEU:HD23	2:hJ:295:VAL:HG23	1.54	0.87
2:jk:53:PHE:O	2:jk:255:ARG:NH2	2.08	0.87
1:js:99:LEU:CD2	1:lD:102:GLU:CG	2.48	0.87
1:jt:60:ARG:CZ	1:jV:99:LEU:HD21	2.05	0.87
2:jy:106:MET:HE3	2:jy:184:TYR:HD1	1.36	0.87
1:md:103:ARG:O	2:mx:61:GLY:O	1.91	0.87
2:my:197:LYS:HD2	1:oB:99:LEU:C	1.99	0.87
2:oD:53:PHE:O	2:oD:255:ARG:NH2	2.08	0.87
2:oR:53:PHE:O	2:oR:255:ARG:NH2	2.08	0.87
3:qe:25:LEU:CD2	6:qy:82:VAL:HB	2.04	0.87
4:ql:177:MET:CG	4:qm:250:GLY:O	2.23	0.87
1:ab:105:THR:HG21	2:mM:60:ILE:CG1	2.04	0.87
2:aj:197:LYS:HD2	1:oP:99:LEU:C	1.99	0.87
1:ap:99:LEU:CD2	1:hN:102:GLU:CB	2.52	0.87
2:aH:106:MET:HE3	2:aH:184:TYR:HD1	1.36	0.87
2:aK:60:ILE:CG1	1:kK:105:THR:HG21	2.04	0.87
1:be:99:LEU:HD11	1:iR:60:ARG:NH2	1.88	0.87
1:be:99:LEU:HD22	1:iR:102:GLU:CB	1.98	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bs:60:ARG:NH2	1:bT:99:LEU:HD11	1.88	0.87
1:cX:102:GLU:CB	1:dz:99:LEU:CD2	2.52	0.87
2:ej:60:ILE:CG1	1:ft:105:THR:HG21	2.04	0.87
1:eD:60:ARG:NE	1:ff:99:LEU:CD2	2.38	0.87
1:fw:99:LEU:C	2:no:197:LYS:HD2	1.99	0.87
2:hh:197:LYS:HD2	1:kz:99:LEU:C	1.99	0.87
1:hA:60:ARG:CZ	1:lO:99:LEU:HD21	2.05	0.87
1:hA:60:ARG:HE	1:lO:99:LEU:HD22	1.36	0.87
2:hK:95:ASN:ND2	5:qv:38:LYS:HB3	1.90	0.87
1:iD:60:ARG:CZ	1:po:99:LEU:HD21	2.05	0.87
2:iZ:60:ILE:HG12	1:kj:105:THR:HG21	1.54	0.87
1:kZ:99:LEU:CA	1:lz:102:GLU:OE1	2.20	0.87
1:nj:99:LEU:C	2:oG:197:LYS:HD2	1.99	0.87
3:qh:66:GLN:H	4:qj:10:GLN:HG2	1.06	0.87
3:qh:66:GLN:HG3	4:qj:194:LEU:N	1.76	0.87
1:ab:99:LEU:CD2	1:ng:60:ARG:NE	2.38	0.87
2:ag:53:PHE:O	2:ag:255:ARG:NH2	2.08	0.87
1:aQ:99:LEU:HD11	1:ch:60:ARG:NH2	1.88	0.87
1:aT:99:LEU:C	2:iL:197:LYS:HD2	1.99	0.87
2:aY:197:LYS:HD2	1:bh:99:LEU:C	1.99	0.87
1:bs:60:ARG:NE	1:bT:99:LEU:CD2	2.38	0.87
2:bL:184:TYR:OH	5:qr:178:PRO:HB2	1.75	0.87
1:ch:99:LEU:CG	1:jf:60:ARG:CZ	2.51	0.87
1:ck:99:LEU:C	2:ix:197:LYS:HD2	1.99	0.87
2:cm:53:PHE:O	2:cm:255:ARG:NH2	2.08	0.87
1:cv:60:ARG:CZ	1:pC:99:LEU:HD21	2.05	0.87
2:cA:53:PHE:O	2:cA:255:ARG:NH2	2.08	0.87
2:cR:197:LYS:HD2	1:eU:99:LEU:C	1.99	0.87
1:cX:60:ARG:NE	1:dz:99:LEU:CD2	2.38	0.87
1:dl:105:THR:HG21	2:hV:60:ILE:CG1	2.04	0.87
2:dq:53:PHE:O	2:dq:255:ARG:NH2	2.08	0.87
1:dQ:99:LEU:C	2:oU:197:LYS:HD2	1.99	0.87
1:ee:99:LEU:C	2:nC:197:LYS:HD2	1.99	0.87
2:eg:53:PHE:O	2:eg:255:ARG:NH2	2.08	0.87
2:ei:61:GLY:O	1:nv:103:ARG:HG3	1.73	0.87
1:ep:60:ARG:CZ	1:pa:99:LEU:HD21	2.05	0.87
1:ep:60:ARG:NE	1:pa:99:LEU:CD2	2.38	0.87
1:ep:99:LEU:CD2	1:nI:60:ARG:NE	2.38	0.87
2:fA:61:GLY:O	1:nh:103:ARG:O	1.91	0.87
1:fV:102:GLU:CB	1:nu:99:LEU:CD2	2.52	0.87
2:go:53:PHE:O	2:go:255:ARG:NH2	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gQ:53:PHE:O	2:gQ:255:ARG:NH2	2.08	0.87
2:he:53:PHE:O	2:he:255:ARG:NH2	2.08	0.87
2:iu:53:PHE:O	2:iu:255:ARG:NH2	2.08	0.87
2:iz:294:LEU:HD23	2:iz:295:VAL:HG23	1.54	0.87
1:iR:99:LEU:HD11	1:kj:60:ARG:NH2	1.88	0.87
2:jb:294:LEU:HD23	2:jb:295:VAL:HG23	1.54	0.87
2:kE:60:ILE:CG1	1:lO:105:THR:HG21	2.04	0.87
1:kY:102:GLU:CB	1:lA:99:LEU:HD22	1.98	0.87
1:lm:102:GLU:CB	1:pQ:99:LEU:HD22	1.98	0.87
2:pt:53:PHE:O	2:pt:255:ARG:NH2	2.08	0.87
3:qd:67:ARG:H	4:qn:194:LEU:HD12	1.09	0.87
6:qq:39:ARG:HH11	6:qM:11:GLU:HB3	1.39	0.87
1:aC:99:LEU:HD21	1:kK:60:ARG:CZ	2.05	0.87
1:aC:99:LEU:CD2	1:kK:60:ARG:NE	2.38	0.87
1:be:105:THR:HG21	2:kq:60:ILE:CG1	2.04	0.87
1:bG:99:LEU:CD2	1:gL:60:ARG:NE	2.38	0.87
1:bK:69:ALA:C	6:qw:116:GLY:HA3	2.00	0.87
1:bT:60:ARG:NE	1:eR:99:LEU:CD2	2.38	0.87
1:cJ:60:ARG:NE	1:iD:99:LEU:CD2	2.38	0.87
1:cX:105:THR:HG21	2:dH:60:ILE:CG1	2.04	0.87
1:dl:60:ARG:NE	1:hN:99:LEU:CD2	2.38	0.87
1:dD:100:LYS:HZ1	1:fd:100:LYS:HG2	1.38	0.87
1:dN:99:LEU:CD2	1:pC:60:ARG:NE	2.38	0.87
1:eb:102:GLU:CB	1:nW:99:LEU:HD22	1.98	0.87
1:eD:105:THR:HG21	2:fn:60:ILE:CG1	2.04	0.87
2:eI:106:MET:HE3	2:eI:184:TYR:HD1	1.36	0.87
2:eW:106:MET:HE3	2:eW:184:TYR:HD1	1.36	0.87
1:fK:99:LEU:C	2:lW:197:LYS:HD2	1.99	0.87
1:gM:103:ARG:O	2:IV:61:GLY:O	1.91	0.87
1:hn:60:ARG:CZ	1:kK:99:LEU:HD21	2.05	0.87
1:iD:60:ARG:NH2	1:po:99:LEU:HD11	1.88	0.87
1:iD:60:ARG:NE	1:po:99:LEU:CD2	2.38	0.87
1:jt:102:GLU:CB	1:jV:99:LEU:CD2	2.52	0.87
2:kE:197:LYS:HD2	1:kN:99:LEU:C	1.99	0.87
1:lD:99:LEU:C	2:na:197:LYS:HD2	1.99	0.87
2:lT:53:PHE:O	2:lT:255:ARG:NH2	2.08	0.87
2:mJ:53:PHE:O	2:mJ:255:ARG:NH2	2.08	0.87
2:mO:294:LEU:HD23	2:mO:295:VAL:HG23	1.54	0.87
1:ok:60:ARG:CZ	1:oM:99:LEU:HD21	2.05	0.87
1:ol:99:LEU:CA	1:ol:102:GLU:OE1	2.20	0.87
2:pw:197:LYS:HD2	1:pF:99:LEU:C	1.99	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qe:55:GLU:CG	4:qm:223:ASN:HD22	1.87	0.87
3:qg:68:ALA:H	4:qk:8:TYR:HE2	0.91	0.87
5:qz:255:VAL:HG12	5:qB:263:ALA:HB1	1.55	0.87
6:qG:11:GLU:HB3	6:qI:39:ARG:HH11	1.38	0.87
1:ab:99:LEU:HD11	1:ng:60:ARG:NH2	1.88	0.86
1:ab:99:LEU:CD2	1:ng:60:ARG:HE	1.86	0.86
1:ap:99:LEU:CD2	1:hN:60:ARG:NE	2.38	0.86
2:au:53:PHE:O	2:au:255:ARG:NH2	2.08	0.86
1:be:99:LEU:HD21	1:iR:60:ARG:CZ	2.05	0.86
1:bG:60:ARG:NH2	1:gj:99:LEU:HD11	1.88	0.86
1:bG:60:ARG:NE	1:gj:99:LEU:CD2	2.38	0.86
1:bG:105:THR:HG21	2:gr:60:ILE:CG1	2.04	0.86
1:cv:102:GLU:CB	1:pC:99:LEU:CD2	2.52	0.86
2:cD:197:LYS:HD2	1:cM:99:LEU:C	1.99	0.86
1:dz:102:GLU:CB	1:gx:99:LEU:CD2	2.52	0.86
1:ep:99:LEU:HD21	1:nI:60:ARG:CZ	2.05	0.86
1:fg:99:LEU:CA	1:ia:102:GLU:OE1	2.20	0.86
2:fk:53:PHE:O	2:fk:255:ARG:NH2	2.08	0.86
2:gC:53:PHE:O	2:gC:255:ARG:NH2	2.08	0.86
1:hn:60:ARG:NE	1:kK:99:LEU:CD2	2.38	0.86
2:hs:107:GLY:HA3	5:qB:178:PRO:CD	2.05	0.86
1:ip:99:LEU:CD2	1:pQ:60:ARG:NE	2.38	0.86
1:jt:105:THR:HG21	2:kd:60:ILE:CG1	2.04	0.86
1:jV:60:ARG:CZ	1:mS:99:LEU:HD21	2.05	0.86
2:kt:189:LYS:HD3	5:qD:34:GLN:HG3	1.55	0.86
2:lr:53:PHE:O	2:lr:255:ARG:NH2	2.08	0.86
1:mE:105:THR:HG21	2:no:60:ILE:CG1	2.04	0.86
2:nl:53:PHE:O	2:nl:255:ARG:NH2	2.08	0.86
4:ql:177:MET:HE1	4:qm:206:TYR:HE1	1.39	0.86
5:qt:394:ILE:HD12	5:qv:405:ILE:CG2	1.88	0.86
2:au:181:PRO:HB3	5:qL:31:GLU:HG2	1.55	0.86
1:bW:99:LEU:C	2:dt:197:LYS:HD2	1.99	0.86
2:bY:53:PHE:O	2:bY:255:ARG:NH2	2.08	0.86
1:cv:60:ARG:NE	1:pC:99:LEU:CD2	2.38	0.86
1:cy:102:GLU:CG	1:nH:99:LEU:CD2	2.48	0.86
1:dl:102:GLU:CB	1:hN:99:LEU:CD2	2.52	0.86
2:dE:53:PHE:O	2:dE:255:ARG:NH2	2.08	0.86
1:eb:99:LEU:CD2	1:ft:60:ARG:NE	2.38	0.86
1:fV:60:ARG:CZ	1:nu:99:LEU:HD21	2.05	0.86
2:ga:53:PHE:O	2:ga:255:ARG:NH2	2.08	0.86
1:gO:99:LEU:C	2:ij:197:LYS:HD2	1.99	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gZ:99:LEU:HD21	1:mq:60:ARG:CZ	2.05	0.86
1:hc:99:LEU:C	2:II:197:LYS:HD2	1.99	0.86
2:hh:60:ILE:CG1	1:mq:105:THR:HG21	2.04	0.86
2:hs:53:PHE:O	2:hs:255:ARG:NH2	2.08	0.86
1:ip:60:ARG:CZ	1:lm:99:LEU:HD21	2.05	0.86
2:ix:60:ILE:CG1	1:pQ:105:THR:HG21	2.04	0.86
2:iI:53:PHE:O	2:iI:255:ARG:NH2	2.08	0.86
1:jg:103:ARG:O	2:lt:61:GLY:O	1.91	0.86
1:jt:60:ARG:NE	1:jV:99:LEU:CD2	2.38	0.86
1:jV:60:ARG:NH2	1:mS:99:LEU:HD11	1.88	0.86
2:ld:53:PHE:O	2:ld:255:ARG:NH2	2.08	0.86
4:qk:177:MET:HE1	4:ql:206:TYR:HE1	1.39	0.86
5:qB:394:ILE:HD12	5:qD:405:ILE:CG2	1.88	0.86
1:aC:60:ARG:CZ	1:hn:99:LEU:CD2	2.53	0.86
1:aQ:60:ARG:NE	1:jf:99:LEU:CD2	2.38	0.86
1:aQ:99:LEU:HD21	1:ch:60:ARG:CZ	2.05	0.86
1:be:99:LEU:CD2	1:iR:60:ARG:NE	2.38	0.86
1:cX:99:LEU:HD21	1:gx:60:ARG:CZ	2.05	0.86
1:eb:99:LEU:CD2	1:ft:60:ARG:CZ	2.53	0.86
1:eD:60:ARG:NH2	1:ff:99:LEU:HD11	1.88	0.86
1:eD:99:LEU:CD2	1:ib:60:ARG:NE	2.38	0.86
1:fl:99:LEU:CA	1:mp:102:GLU:OE1	2.20	0.86
1:gm:99:LEU:C	2:hV:197:LYS:HD2	1.99	0.86
2:ig:53:PHE:O	2:ig:255:ARG:NH2	2.08	0.86
1:ip:60:ARG:NH2	1:lm:99:LEU:HD11	1.88	0.86
1:ip:99:LEU:CD2	1:pQ:60:ARG:CZ	2.53	0.86
1:iD:102:GLU:CB	1:po:99:LEU:HD22	1.98	0.86
2:iZ:197:LYS:HD2	1:ji:99:LEU:C	1.99	0.86
1:iB:99:LEU:CA	1:ox:102:GLU:OE1	2.20	0.86
1:mc:99:LEU:CD2	1:nu:60:ARG:NE	2.38	0.86
1:mE:60:ARG:NH2	1:ng:99:LEU:HD11	1.88	0.86
2:nQ:197:LYS:HD2	1:nZ:99:LEU:C	1.99	0.86
2:nS:294:LEU:HD23	2:nS:295:VAL:HG23	1.54	0.86
5:qp:263:ALA:HB1	5:qL:255:VAL:HG12	1.55	0.86
1:ab:99:LEU:HD21	1:ng:60:ARG:CZ	2.05	0.86
1:aC:60:ARG:NE	1:hn:99:LEU:CD2	2.38	0.86
1:be:60:ARG:CZ	1:kj:99:LEU:CD2	2.53	0.86
2:bm:197:LYS:HD2	1:do:99:LEU:C	1.99	0.86
2:bL:53:PHE:O	2:bL:255:ARG:NH2	2.08	0.86
1:cw:99:LEU:CA	1:pB:102:GLU:OE1	2.20	0.86
1:ep:105:THR:HG21	2:pi:60:ILE:CG1	2.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eD:60:ARG:CD	1:ff:99:LEU:CD1	2.44	0.86
1:fV:99:LEU:CD2	1:mc:60:ARG:CZ	2.53	0.86
2:gT:197:LYS:HD2	1:lR:99:LEU:C	1.99	0.86
1:ho:99:LEU:CA	1:kJ:102:GLU:OE1	2.20	0.86
2:hx:96:LEU:HD22	5:qz:47:ARG:HE	1.34	0.86
1:hA:60:ARG:NE	1:lO:99:LEU:CD2	2.38	0.86
1:ip:60:ARG:NE	1:lm:99:LEU:CD2	2.38	0.86
2:iw:61:GLY:HA2	1:jI:103:ARG:NH1	1.91	0.86
1:jH:60:ARG:NE	1:ok:99:LEU:CD2	2.38	0.86
2:ko:53:PHE:O	2:ko:255:ARG:NH2	2.08	0.86
3:qg:68:ALA:CB	4:qk:8:TYR:HH	1.87	0.86
3:qi:55:GLU:CB	4:qo:223:ASN:ND2	2.36	0.86
3:qi:66:GLN:HA	4:qo:8:TYR:CD2	2.10	0.86
5:qp:229:ILE:CD1	5:qr:232:LEU:CD1	2.54	0.86
6:qI:112:LEU:HD22	6:qK:58:LEU:HD11	0.90	0.86
1:ab:60:ARG:NH2	1:mE:99:LEU:HD11	1.88	0.86
2:ay:294:LEU:HD23	2:ay:295:VAL:HG23	1.54	0.86
1:bs:60:ARG:CZ	1:bT:99:LEU:CD2	2.53	0.86
2:bx:53:PHE:O	2:bx:255:ARG:NH2	2.08	0.86
1:bT:102:GLU:CB	1:eR:99:LEU:HD22	1.98	0.86
2:ca:61:GLY:HA2	1:dm:103:ARG:NH1	1.91	0.86
1:ch:99:LEU:HD11	1:jf:60:ARG:NH2	1.88	0.86
2:co:61:GLY:HA2	1:iq:103:ARG:NH1	1.91	0.86
1:cv:60:ARG:NH2	1:pC:99:LEU:HD11	1.88	0.86
1:cv:99:LEU:CD2	1:dN:60:ARG:NE	2.38	0.86
1:cX:60:ARG:NH2	1:dz:99:LEU:HD11	1.88	0.86
1:cX:99:LEU:HD11	1:gx:60:ARG:NH2	1.88	0.86
2:dc:53:PHE:O	2:dc:255:ARG:NH2	2.08	0.86
1:dz:60:ARG:CZ	1:gx:99:LEU:HD21	2.05	0.86
1:ec:103:ARG:NH1	2:ew:61:GLY:HA2	1.91	0.86
2:ex:60:ILE:CG1	1:nI:105:THR:HG21	2.04	0.86
1:fs:102:GLU:OE1	1:nX:99:LEU:CA	2.20	0.86
1:fH:60:ARG:NE	1:mq:99:LEU:CD2	2.38	0.86
1:fH:99:LEU:CD2	1:gZ:60:ARG:NE	2.38	0.86
2:gS:61:GLY:HA2	1:ic:103:ARG:NH1	1.91	0.86
1:hn:105:THR:HG21	2:kS:60:ILE:CG1	2.04	0.86
2:hx:93:ASP:HA	5:qz:44:LYS:NZ	1.90	0.86
2:hF:32:LEU:HD11	5:qv:178:PRO:CA	2.04	0.86
1:ju:103:ARG:NH1	2:pX:61:GLY:HA2	1.91	0.86
1:kY:60:ARG:CD	1:lA:99:LEU:CD1	2.44	0.86
1:kY:99:LEU:CD2	1:oy:60:ARG:NE	2.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lf:61:GLY:HA2	1:mF:103:ARG:NH1	1.91	0.86
1:1A:102:GLU:CB	1:oy:99:LEU:HD22	1.98	0.86
2:1F:53:PHE:O	2:1F:255:ARG:NH2	2.08	0.86
1:mC:100:LYS:CG	1:oc:100:LYS:HZ3	1.88	0.86
2:mL:61:GLY:HA2	1:ol:103:ARG:NH1	1.91	0.86
1:ok:60:ARG:NE	1:om:99:LEU:CD2	2.38	0.86
2:ow:294:LEU:HD23	2:ow:295:VAL:HG23	1.54	0.86
3:qh:55:GLU:CG	4:qj:223:ASN:ND2	2.37	0.86
3:qh:65:GLY:C	4:qj:9:GLY:O	2.17	0.86
5:qt:229:ILE:CD1	5:qv:232:LEU:CD1	2.54	0.86
5:qv:229:ILE:CD1	5:qx:232:LEU:CD1	2.54	0.86
6:qy:112:LEU:HD22	6:qA:58:LEU:HD11	0.90	0.86
5:qF:255:VAL:HG12	5:qH:263:ALA:HB1	1.55	0.86
1:ab:60:ARG:NE	1:mE:99:LEU:CD2	2.38	0.86
1:ac:103:ARG:NH1	2:ot:61:GLY:HA2	1.91	0.86
1:ap:99:LEU:HD21	1:hN:60:ARG:CZ	2.05	0.86
2:cb:197:LYS:HD2	1:iG:99:LEU:C	1.99	0.86
1:ft:99:LEU:CD2	1:nW:60:ARG:NE	2.38	0.86
1:ft:99:LEU:HD22	1:nW:102:GLU:CB	1.98	0.86
1:ip:99:LEU:HD21	1:pQ:60:ARG:CZ	2.05	0.86
1:is:99:LEU:C	2:jP:197:LYS:HD2	1.99	0.86
1:jH:60:ARG:NH2	1:ok:99:LEU:HD11	1.88	0.86
1:jK:99:LEU:C	2:pK:197:LYS:HD2	1.99	0.86
1:jV:60:ARG:NE	1:mS:99:LEU:CD2	2.38	0.86
2:ka:53:PHE:O	2:ka:255:ARG:NH2	2.08	0.86
2:kt:111:GLY:HA3	5:qD:178:PRO:HG2	1.57	0.86
1:kY:105:THR:HG21	2:1l:60:ILE:CG1	2.04	0.86
1:mr:103:ARG:NH1	2:of:61:GLY:HA2	1.91	0.86
1:mH:99:LEU:C	2:os:197:LYS:HD2	1.99	0.86
2:nn:60:ILE:HG22	1:oz:105:THR:HG21	1.57	0.86
2:ob:53:PHE:O	2:ob:255:ARG:NH2	2.08	0.86
3:qe:55:GLU:HB3	4:qm:223:ASN:ND2	1.90	0.86
3:qh:63:GLN:HE22	4:qo:222:GLY:N	1.69	0.86
6:qs:11:GLU:HB3	6:qu:39:ARG:HH11	1.39	0.86
1:ab:60:ARG:CZ	1:mE:99:LEU:HD21	2.05	0.86
2:av:61:GLY:HA2	1:bH:103:ARG:NH1	1.91	0.86
1:aQ:60:ARG:CZ	1:jf:99:LEU:HD21	2.05	0.86
1:bs:60:ARG:CZ	1:bT:99:LEU:HD21	2.05	0.86
2:bQ:188:MET:HE2	5:qp:34:GLN:HE21	1.41	0.86
1:cJ:99:LEU:CD2	1:po:60:ARG:NE	2.38	0.86
1:cJ:105:THR:HG21	2:1L:60:ILE:CG1	2.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:da:99:LEU:C	2:eL:197:LYS:HD2	1.99	0.86
2:de:61:GLY:HA2	1:eE:103:ARG:NH1	1.91	0.86
1:dl:60:ARG:CZ	1:hN:99:LEU:CD2	2.53	0.86
1:dN:99:LEU:HD21	1:pC:60:ARG:CZ	2.05	0.86
2:ei:60:ILE:HG22	1:nv:105:THR:HG21	1.57	0.86
2:eu:53:PHE:O	2:eu:255:ARG:NH2	2.08	0.86
1:eD:60:ARG:CZ	1:ff:99:LEU:HD21	2.05	0.86
1:eD:99:LEU:CD2	1:ib:60:ARG:CZ	2.53	0.86
2:eI:53:PHE:O	2:eI:255:ARG:NH2	2.08	0.86
2:fy:53:PHE:O	2:fy:255:ARG:NH2	2.08	0.86
2:fA:197:LYS:HZ2	1:nX:100:LYS:N	1.71	0.86
2:fr:294:LEU:HD23	2:fr:295:VAL:HG23	1.55	0.86
1:fV:99:LEU:CD2	1:mc:60:ARG:NE	2.38	0.86
1:gJ:60:ARG:NE	1:gL:99:LEU:CD2	2.38	0.86
2:gq:61:GLY:HA2	1:hO:103:ARG:NH1	1.91	0.86
2:hF:53:PHE:O	2:hF:255:ARG:NH2	2.08	0.86
2:jM:53:PHE:O	2:jM:255:ARG:NH2	2.08	0.86
1:kx:103:ARG:NH1	2:kR:61:GLY:HA2	1.91	0.86
2:mv:53:PHE:O	2:mv:255:ARG:NH2	2.08	0.86
2:nn:61:GLY:HA2	1:oz:103:ARG:NH1	1.91	0.86
3:qg:61:ASP:C	4:qk:33:SER:OG	2.19	0.86
3:qi:55:GLU:CD	4:qo:223:ASN:ND2	2.33	0.86
4:qj:177:MET:CG	4:qk:250:GLY:O	2.23	0.86
4:qj:250:GLY:O	4:qo:177:MET:CG	2.23	0.86
5:qz:229:ILE:CD1	5:qB:232:LEU:CD1	2.54	0.86
1:aD:103:ARG:NH1	2:iY:61:GLY:HA2	1.91	0.86
2:aH:53:PHE:O	2:aH:255:ARG:NH2	2.08	0.86
1:bs:99:LEU:HD11	1:eR:60:ARG:NH2	1.88	0.86
2:bz:61:GLY:HA2	1:cY:103:ARG:NH1	1.91	0.86
1:bG:99:LEU:HD21	1:gL:60:ARG:CZ	2.05	0.86
1:bU:103:ARG:NH1	2:iK:61:GLY:HA2	1.91	0.86
1:cy:102:GLU:HG3	1:nH:99:LEU:HG	1.41	0.86
1:cX:60:ARG:CZ	1:dz:99:LEU:CD2	2.53	0.86
1:ff:60:ARG:NE	1:ib:99:LEU:CD2	2.38	0.86
1:fG:102:GLU:OE1	1:ha:99:LEU:CA	2.20	0.86
1:hn:60:ARG:NH2	1:kK:99:LEU:HD11	1.88	0.86
1:hA:99:LEU:CD2	1:kw:60:ARG:CZ	2.53	0.86
1:jt:99:LEU:CD2	1:mS:60:ARG:NE	2.38	0.86
2:jy:53:PHE:O	2:jy:255:ARG:NH2	2.08	0.86
2:kt:181:PRO:CB	5:qD:175:ASP:O	2.21	0.86
2:kU:294:LEU:HD23	2:kU:295:VAL:HG23	1.54	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mc:99:LEU:HD21	1:nu:60:ARG:CZ	2.05	0.86
2:mh:53:PHE:O	2:mh:255:ARG:NH2	2.08	0.86
1:mE:60:ARG:NE	1:ng:99:LEU:CD2	2.38	0.86
2:mX:53:PHE:O	2:mX:255:ARG:NH2	2.08	0.86
4:qn:177:MET:CG	4:qo:250:GLY:O	2.23	0.86
1:ab:102:GLU:CB	1:mE:99:LEU:HD22	1.98	0.86
2:aJ:61:GLY:HA2	1:jW:103:ARG:NH1	1.91	0.86
1:aQ:105:THR:HG21	2:jn:60:ILE:CG1	2.04	0.86
1:be:60:ARG:NE	1:kj:99:LEU:CD2	2.38	0.86
1:bf:99:LEU:CA	1:ki:102:GLU:OE1	2.20	0.86
1:bs:99:LEU:CD2	1:eR:60:ARG:NE	2.38	0.86
2:cp:60:ILE:CG1	1:jf:105:THR:HG21	2.04	0.86
1:cy:99:LEU:C	2:pi:197:LYS:HD2	1.99	0.86
1:cJ:60:ARG:CZ	1:iD:99:LEU:CD2	2.53	0.86
1:cJ:99:LEU:HD11	1:po:60:ARG:NH2	1.88	0.86
1:dz:60:ARG:NE	1:gx:99:LEU:CD2	2.38	0.86
2:dV:60:ILE:CG1	1:pC:105:THR:HG21	2.04	0.86
1:eb:60:ARG:NE	1:nW:99:LEU:CD2	2.38	0.86
1:eD:60:ARG:CZ	1:ff:99:LEU:CD2	2.53	0.86
2:eL:60:ILE:CG1	1:ib:105:THR:HG21	2.04	0.86
1:ft:99:LEU:HD21	1:nW:60:ARG:CZ	2.05	0.86
1:fu:103:ARG:NH1	2:mj:61:GLY:HA2	1.91	0.86
1:fV:99:LEU:HD21	1:mc:60:ARG:CZ	2.05	0.86
2:hx:103:MET:HE1	5:qz:31:GLU:HB3	1.55	0.86
1:hA:99:LEU:CD2	1:kw:60:ARG:NE	2.38	0.86
1:iS:103:ARG:NH1	2:jm:61:GLY:HA2	1.91	0.86
2:iW:53:PHE:O	2:iW:255:ARG:NH2	2.08	0.86
1:jt:99:LEU:HD21	1:mS:60:ARG:CZ	2.05	0.86
2:kP:53:PHE:O	2:kP:255:ARG:NH2	2.08	0.86
1:lA:60:ARG:NE	1:oy:99:LEU:CD2	2.38	0.86
1:nI:99:LEU:CD2	1:pa:60:ARG:NE	2.38	0.86
3:qd:66:GLN:HB2	4:qn:8:TYR:O	1.76	0.86
3:qh:66:GLN:N	4:qj:9:GLY:C	2.33	0.86
4:qj:177:MET:HE1	4:qk:206:TYR:HE1	1.39	0.86
6:qE:11:GLU:HB3	6:qG:39:ARG:HH11	1.39	0.86
1:aC:99:LEU:CD2	1:kK:60:ARG:CZ	2.53	0.86
1:aQ:99:LEU:CD2	1:ch:60:ARG:NE	2.38	0.86
2:aX:60:ILE:HG22	1:iE:105:THR:HG21	1.57	0.86
1:bs:105:THR:HG21	2:cb:60:ILE:CG1	2.04	0.86
1:bJ:99:LEU:C	2:hH:197:LYS:HD2	1.99	0.86
2:bM:61:GLY:HA2	1:hB:103:ARG:NH1	1.91	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cC:61:GLY:HA2	1:pb:103:ARG:NH1	1.91	0.86
1:cJ:99:LEU:HD21	1:po:60:ARG:CZ	2.05	0.86
1:cK:103:ARG:NH1	2:eY:61:GLY:HA2	1.91	0.86
1:cX:99:LEU:CD2	1:gx:60:ARG:CZ	2.53	0.86
1:dN:99:LEU:CD2	1:pC:102:GLU:CB	2.52	0.86
2:ei:61:GLY:HA2	1:nv:103:ARG:NH1	1.91	0.86
2:ez:294:LEU:HD23	2:ez:295:VAL:HG23	1.54	0.86
1:ff:60:ARG:CZ	1:ib:99:LEU:HD21	2.05	0.86
2:hg:61:GLY:HA2	1:lB:103:ARG:NH1	1.91	0.86
2:hx:92:GLU:C	5:qz:44:LYS:HZ3	1.83	0.86
1:hA:99:LEU:HD22	1:kw:102:GLU:CB	1.98	0.86
1:hE:70:GLY:HA2	6:qC:57:GLN:CB	2.06	0.86
1:jt:60:ARG:CZ	1:jV:99:LEU:CD2	2.53	0.86
2:jO:61:GLY:HA2	1:pD:103:ARG:NH1	1.91	0.86
1:kw:99:LEU:CD2	1:lO:60:ARG:CZ	2.53	0.86
2:kB:53:PHE:O	2:kB:255:ARG:NH2	2.08	0.86
2:nz:53:PHE:O	2:nz:255:ARG:NH2	2.08	0.86
1:pp:103:ARG:NH1	2:pJ:61:GLY:HA2	1.91	0.86
3:qe:65:GLY:HA2	4:ql:220:SER:N	1.89	0.86
6:qu:11:GLU:HB3	6:qw:39:ARG:HH11	1.39	0.86
5:qx:229:ILE:CD1	5:qz:232:LEU:CD1	2.54	0.86
1:aO:102:GLU:CD	1:iV:99:LEU:HD21	2.02	0.85
1:bw:99:LEU:HD21	1:dj:102:GLU:CD	2.01	0.85
1:bT:60:ARG:CZ	1:eR:99:LEU:HD21	2.05	0.85
1:ch:99:LEU:HD21	1:jf:60:ARG:CZ	2.05	0.85
1:cv:99:LEU:HD21	1:dN:60:ARG:CZ	2.05	0.85
2:cR:60:ILE:CG1	1:po:105:THR:HG21	2.04	0.85
1:eD:99:LEU:HD21	1:ib:60:ARG:CZ	2.05	0.85
2:eN:294:LEU:HD23	2:eN:295:VAL:HG23	1.54	0.85
2:fk:209:TYR:OH	2:gD:93:ASP:OD2	1.94	0.85
1:fr:100:LYS:HG2	1:ny:100:LYS:HZ1	1.40	0.85
1:gj:60:ARG:CZ	1:gL:99:LEU:HD21	2.05	0.85
1:gM:103:ARG:NH1	2:lV:61:GLY:HA2	1.91	0.85
1:hd:100:LYS:HZ3	1:lM:100:LYS:HG2	1.39	0.85
2:hF:32:LEU:HD12	5:qv:178:PRO:N	1.88	0.85
2:jB:197:LYS:HD2	1:pT:99:LEU:C	1.99	0.85
1:jH:99:LEU:CD2	1:oM:60:ARG:NE	2.38	0.85
2:ka:209:TYR:OH	2:ls:93:ASP:OD2	1.95	0.85
1:kw:99:LEU:CD2	1:lO:60:ARG:NE	2.38	0.85
1:kY:99:LEU:HD21	1:oy:60:ARG:CZ	2.05	0.85
1:mC:102:GLU:CD	1:oC:99:LEU:HD21	2.01	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:nI:99:LEU:HD21	1:pa:60:ARG:CZ	2.05	0.85
2:pV:53:PHE:O	2:pV:255:ARG:NH2	2.08	0.85
5:qr:229:ILE:CD1	5:qt:232:LEU:CD1	2.54	0.85
1:aC:60:ARG:CZ	1:hn:99:LEU:HD21	2.05	0.85
1:aQ:99:LEU:CD2	1:ch:60:ARG:CZ	2.53	0.85
2:bx:209:TYR:OH	2:dd:93:ASP:OD2	1.95	0.85
1:cJ:60:ARG:CZ	1:iD:99:LEU:HD21	2.05	0.85
1:eb:99:LEU:HD22	1:ft:102:GLU:CB	1.98	0.85
2:gQ:209:TYR:OH	2:ih:93:ASP:OD2	1.94	0.85
1:jH:60:ARG:CZ	1:ok:99:LEU:HD21	2.05	0.85
1:kY:99:LEU:CD2	1:oy:60:ARG:CZ	2.53	0.85
1:lm:60:ARG:CZ	1:pQ:99:LEU:HD21	2.05	0.85
2:lF:209:TYR:OH	2:mY:93:ASP:OD2	1.95	0.85
2:op:209:TYR:OH	2:pW:93:ASP:OD2	1.94	0.85
3:qe:64:GLY:O	4:ql:220:SER:C	2.19	0.85
3:qg:67:ARG:H	4:qk:194:LEU:HD12	0.85	0.85
4:qm:177:MET:CG	4:qn:250:GLY:O	2.23	0.85
1:ap:60:ARG:CZ	1:dl:99:LEU:HD21	2.05	0.85
1:aR:103:ARG:NH1	2:bl:61:GLY:HA2	1.91	0.85
1:bf:103:ARG:NH1	2:ds:61:GLY:HA2	1.91	0.85
2:bj:53:PHE:O	2:bj:255:ARG:NH2	2.08	0.85
1:bt:103:ARG:NH1	2:hU:61:GLY:HA2	1.91	0.85
2:cO:53:PHE:O	2:cO:255:ARG:NH2	2.08	0.85
2:dE:209:TYR:OH	2:eX:93:ASP:OD2	1.94	0.85
2:dF:93:ASP:OD2	2:pf:209:TYR:OH	1.95	0.85
1:eb:60:ARG:CZ	1:nW:99:LEU:HD21	2.05	0.85
1:eb:60:ARG:NH2	1:nW:99:LEU:HD11	1.88	0.85
1:eD:99:LEU:CD1	1:ib:60:ARG:CD	2.44	0.85
2:eW:53:PHE:O	2:eW:255:ARG:NH2	2.08	0.85
1:fH:99:LEU:HD22	1:gZ:102:GLU:CB	1.98	0.85
1:fV:60:ARG:NE	1:nu:99:LEU:CD2	2.38	0.85
1:gP:62:THR:OG1	1:gP:100:LYS:O	1.95	0.85
2:hS:53:PHE:O	2:hS:255:ARG:NH2	2.08	0.85
1:iR:99:LEU:CD2	1:kj:60:ARG:NE	2.38	0.85
2:iX:93:ASP:OD2	2:jk:209:TYR:OH	1.95	0.85
1:kY:60:ARG:NE	1:lA:99:LEU:CD2	2.38	0.85
2:pf:53:PHE:O	2:pf:255:ARG:NH2	2.08	0.85
3:qd:66:GLN:C	4:qn:194:LEU:CD1	2.43	0.85
3:qh:64:GLY:C	4:qo:219:ILE:HG22	2.00	0.85
5:qD:229:ILE:CD1	5:qF:232:LEU:CD1	2.54	0.85
1:bs:99:LEU:HD21	1:eR:60:ARG:CZ	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cw:103:ARG:NH1	2:cQ:61:GLY:HA2	1.91	0.85
1:cJ:99:LEU:CD2	1:po:60:ARG:CZ	2.53	0.85
1:dl:60:ARG:CZ	1:hN:99:LEU:HD21	2.05	0.85
1:dA:103:ARG:NH1	2:ph:61:GLY:HA2	1.91	0.85
1:eb:99:LEU:HD11	1:ft:60:ARG:NH2	1.88	0.85
1:eq:103:ARG:NH1	2:gE:61:GLY:HA2	1.91	0.85
2:fM:53:PHE:O	2:fM:255:ARG:NH2	2.08	0.85
1:gZ:99:LEU:CD2	1:mq:60:ARG:NE	2.38	0.85
2:jO:60:ILE:HG22	1:pD:105:THR:HG21	1.57	0.85
2:kC:93:ASP:OD2	2:kP:209:TYR:OH	1.95	0.85
2:ld:209:TYR:OH	2:mK:93:ASP:OD2	1.95	0.85
1:lm:60:ARG:NE	1:pQ:99:LEU:CD2	2.38	0.85
2:pH:53:PHE:O	2:pH:255:ARG:NH2	2.08	0.85
3:qf:67:ARG:HB3	4:ql:194:LEU:HD13	1.55	0.85
6:qC:109:SER:OG	6:qE:53:HIS:CD2	2.29	0.85
2:ai:61:GLY:HA2	1:nX:103:ARG:NH1	1.91	0.85
1:ap:60:ARG:NE	1:dl:99:LEU:CD2	2.38	0.85
1:ap:99:LEU:CD1	1:hN:60:ARG:CD	2.44	0.85
1:at:62:THR:OG1	1:at:100:LYS:O	1.95	0.85
1:bG:102:GLU:CB	1:gj:99:LEU:HD22	1.98	0.85
1:ch:99:LEU:CD2	1:jf:60:ARG:NE	2.38	0.85
1:cz:99:LEU:HD21	1:pm:102:GLU:CD	2.02	0.85
1:dD:62:THR:OG1	1:dD:100:LYS:O	1.95	0.85
1:eb:99:LEU:HD21	1:ft:60:ARG:CZ	2.05	0.85
1:eq:105:THR:HG21	2:gE:60:ILE:HG22	1.57	0.85
2:fy:209:TYR:OH	2:nM:93:ASP:OD2	1.95	0.85
2:fO:61:GLY:HA2	1:lP:103:ARG:NH1	1.91	0.85
2:go:209:TYR:OH	2:hT:93:ASP:OD2	1.95	0.85
1:gZ:99:LEU:CD2	1:mq:60:ARG:CZ	2.53	0.85
1:ha:103:ARG:NH1	2:kD:61:GLY:HA2	1.91	0.85
2:jz:93:ASP:OD2	2:pV:209:TYR:OH	1.95	0.85
1:jH:99:LEU:HD21	1:oM:60:ARG:CZ	2.05	0.85
1:kw:99:LEU:HD11	1:lO:60:ARG:NH2	1.88	0.85
1:kI:102:GLU:CD	1:kO:99:LEU:HD21	2.02	0.85
1:lA:60:ARG:CD	1:oy:99:LEU:CD1	2.44	0.85
1:lE:100:LYS:HZ3	1:ne:100:LYS:CG	1.89	0.85
1:mc:99:LEU:CD1	1:nu:60:ARG:CD	2.44	0.85
1:mE:60:ARG:CZ	1:ng:99:LEU:HD21	2.05	0.85
1:ny:62:THR:OG1	1:ny:100:LYS:O	1.95	0.85
2:nN:53:PHE:O	2:nN:255:ARG:NH2	2.08	0.85
1:oo:62:THR:OG1	1:oo:100:LYS:O	1.95	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:op:53:PHE:O	2:op:255:ARG:NH2	2.08	0.85
3:qe:55:GLU:CG	4:qm:223:ASN:ND2	2.39	0.85
3:qf:65:GLY:N	4:ql:10:GLN:CD	2.35	0.85
3:qf:65:GLY:H	4:ql:10:GLN:CD	1.83	0.85
3:qg:66:GLN:H	4:qk:10:GLN:N	1.74	0.85
3:qh:61:ASP:C	4:qj:33:SER:CB	2.47	0.85
3:qh:65:GLY:H	4:qj:10:GLN:CD	1.84	0.85
4:qm:177:MET:HE1	4:qn:206:TYR:HE1	1.39	0.85
6:qq:11:GLU:HB3	6:qs:39:ARG:HH11	1.38	0.85
6:qA:11:GLU:HB3	6:qC:39:ARG:HH11	1.39	0.85
5:qD:394:ILE:HD12	5:qF:405:ILE:CG2	1.88	0.85
5:qF:229:ILE:CD1	5:qH:232:LEU:CD1	2.54	0.85
2:aV:53:PHE:O	2:aV:255:ARG:NH2	2.08	0.85
1:bG:60:ARG:CZ	1:gj:99:LEU:HD21	2.05	0.85
1:bG:60:ARG:CD	1:gj:99:LEU:CD1	2.44	0.85
1:eo:102:GLU:OE1	1:nJ:99:LEU:CA	2.20	0.85
2:ev:93:ASP:OD2	2:gC:209:TYR:OH	1.95	0.85
1:fW:103:ARG:NH1	2:ii:61:GLY:HA2	1.91	0.85
2:hx:95:ASN:HB2	5:qz:47:ARG:HH21	1.20	0.85
2:kt:108:ARG:C	5:qD:178:PRO:HG3	2.01	0.85
1:kw:99:LEU:HD21	1:lO:60:ARG:CZ	2.05	0.85
2:mJ:209:TYR:OH	2:oq:93:ASP:OD2	1.95	0.85
3:qh:66:GLN:C	4:qj:194:LEU:HD12	1.98	0.85
3:qi:66:GLN:CB	4:qo:8:TYR:O	2.25	0.85
5:qH:229:ILE:CD1	5:qJ:232:LEU:CD1	2.54	0.85
1:ap:102:GLU:CB	1:dl:99:LEU:HD22	1.98	0.85
1:be:60:ARG:CZ	1:kj:99:LEU:HD21	2.05	0.85
1:bG:60:ARG:CZ	1:gj:99:LEU:CD2	2.53	0.85
1:bG:99:LEU:HD11	1:gL:60:ARG:NH2	1.88	0.85
1:ct:100:LYS:CG	1:ps:100:LYS:HZ3	1.85	0.85
1:eD:102:GLU:CB	1:ff:99:LEU:HD22	1.98	0.85
1:fg:99:LEU:HA	2:ii:197:LYS:NZ	1.92	0.85
2:fz:93:ASP:OD2	2:mh:209:TYR:OH	1.95	0.85
2:fA:61:GLY:HA2	1:nh:103:ARG:NH1	1.91	0.85
1:ip:102:GLU:CB	1:lm:99:LEU:HD22	1.98	0.85
1:jt:60:ARG:NH2	1:jV:99:LEU:HD11	1.88	0.85
1:jF:102:GLU:CD	1:pU:99:LEU:HD21	2.01	0.85
1:nJ:103:ARG:NH1	2:od:61:GLY:HA2	1.91	0.85
1:oa:62:THR:OG1	1:oa:100:LYS:O	1.95	0.85
2:pu:93:ASP:OD2	2:pH:209:TYR:OH	1.95	0.85
3:qe:67:ARG:CA	4:qm:194:LEU:CD1	2.54	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qe:68:ALA:HB2	4:qm:8:TYR:CZ	2.11	0.85
3:qh:66:GLN:CA	4:qj:10:GLN:HG2	2.06	0.85
6:qC:11:GLU:HB3	6:qE:39:ARG:HH11	1.39	0.85
5:qJ:229:ILE:CD1	5:qL:232:LEU:CD1	2.54	0.85
2:ah:93:ASP:OD2	2:or:209:TYR:OH	1.95	0.85
1:aq:99:LEU:HA	2:ds:197:LYS:NZ	1.92	0.85
1:aU:99:LEU:HD21	1:iP:102:GLU:CD	2.01	0.85
2:by:93:ASP:OD2	2:hS:209:TYR:OH	1.95	0.85
2:eh:93:ASP:OD2	2:eu:209:TYR:OH	1.94	0.85
2:ei:197:LYS:NZ	1:fu:99:LEU:HA	1.92	0.85
1:fH:60:ARG:CZ	1:mq:99:LEU:CD2	2.53	0.85
1:gn:62:THR:OG1	1:gn:100:LYS:O	1.95	0.85
1:ha:105:THR:HG21	2:kD:60:ILE:HG22	1.57	0.85
1:hA:99:LEU:HD21	1:kw:60:ARG:CZ	2.05	0.85
1:iR:99:LEU:HD21	1:kj:60:ARG:CZ	2.05	0.85
1:jH:60:ARG:CZ	1:ok:99:LEU:CD2	2.53	0.85
1:jZ:62:THR:OG1	1:jZ:100:LYS:O	1.95	0.85
2:kQ:93:ASP:OD2	2:mX:209:TYR:OH	1.95	0.85
1:ln:99:LEU:HA	2:pX:197:LYS:NZ	1.92	0.85
1:nU:102:GLU:CD	1:oa:99:LEU:HD21	2.01	0.85
1:ok:60:ARG:CZ	1:om:99:LEU:CD2	2.53	0.85
1:ol:99:LEU:HA	2:ot:197:LYS:NZ	1.92	0.85
1:pG:62:THR:OG1	1:pG:100:LYS:O	1.95	0.85
5:qp:232:LEU:CD1	5:qL:229:ILE:CD1	2.54	0.85
6:qq:58:LEU:HD11	6:qM:112:LEU:HD22	0.90	0.85
5:qr:394:ILE:HD12	5:qt:405:ILE:CG2	1.88	0.85
5:qz:229:ILE:HD12	5:qB:232:LEU:HD21	1.59	0.85
1:aq:103:ARG:NH1	2:kp:61:GLY:HA2	1.91	0.85
2:aX:61:GLY:HA2	1:iE:103:ARG:NH1	1.91	0.85
2:bY:209:TYR:OH	2:dr:93:ASP:OD2	1.95	0.85
2:cc:52:GLN:OE1	2:cc:255:ARG:NH2	2.10	0.85
1:dD:100:LYS:NZ	1:fd:100:LYS:CG	2.40	0.85
2:dT:93:ASP:OD2	2:nN:209:TYR:OH	1.94	0.85
1:eV:62:THR:OG1	1:eV:100:LYS:O	1.95	0.85
1:fH:99:LEU:HD21	1:gZ:60:ARG:CZ	2.05	0.85
1:gj:60:ARG:CZ	1:gL:99:LEU:CD2	2.53	0.85
1:hR:62:THR:OG1	1:hR:100:LYS:O	1.95	0.85
2:iw:197:LYS:NZ	1:pR:99:LEU:HA	1.92	0.85
2:jy:209:TYR:OH	2:le:93:ASP:OD2	1.95	0.85
1:jH:99:LEU:CD2	1:om:60:ARG:CZ	2.53	0.85
1:jH:99:LEU:HD22	1:om:102:GLU:CB	1.98	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jI:99:LEU:HA	2:or:197:LYS:NZ	1.92	0.85
2:jO:197:LYS:NZ	1:oN:99:LEU:HA	1.92	0.85
1:jZ:100:LYS:NZ	1:ly:100:LYS:CG	2.40	0.85
1:kn:62:THR:OG1	1:kn:100:LYS:O	1.95	0.85
1:kL:103:ARG:NH1	2:mZ:61:GLY:HA2	1.91	0.85
1:lA:60:ARG:CZ	1:oy:99:LEU:CD2	2.53	0.85
1:lA:60:ARG:CZ	1:oy:99:LEU:HD21	2.05	0.85
1:nk:62:THR:OG1	1:nk:100:LYS:O	1.95	0.85
2:or:61:GLY:HA2	1:pR:103:ARG:NH1	1.91	0.85
2:oH:52:GLN:OE1	2:oH:255:ARG:NH2	2.10	0.85
1:oQ:62:THR:OG1	1:oQ:100:LYS:O	1.95	0.85
4:qj:206:TYR:HE1	4:qo:177:MET:HE1	1.39	0.85
6:qy:11:GLU:HB3	6:qA:39:ARG:HH11	1.39	0.85
1:ap:60:ARG:CZ	1:dl:99:LEU:CD2	2.53	0.85
2:dg:52:GLN:OE1	2:dg:255:ARG:NH2	2.10	0.85
1:dA:105:THR:HG21	2:ph:60:ILE:HG22	1.57	0.85
2:dG:61:GLY:HA2	1:eS:103:ARG:NH1	1.91	0.85
1:dZ:100:LYS:CG	1:nM:100:LYS:NZ	2.40	0.85
1:dZ:102:GLU:CD	1:nM:99:LEU:HD21	2.01	0.85
1:ep:99:LEU:CD2	1:nI:60:ARG:CZ	2.53	0.85
1:eH:99:LEU:HD21	1:gv:102:GLU:CD	2.01	0.85
1:fV:60:ARG:CZ	1:nu:99:LEU:CD2	2.53	0.85
1:gn:100:LYS:NZ	1:hZ:100:LYS:CG	2.40	0.85
2:gU:52:GLN:OE1	2:gU:255:ARG:NH2	2.10	0.85
2:hi:52:GLN:OE1	2:hi:255:ARG:NH2	2.10	0.85
2:ik:52:GLN:OE1	2:ik:255:ARG:NH2	2.10	0.85
1:lm:60:ARG:NH2	1:pQ:99:LEU:HD11	1.88	0.85
1:mI:62:THR:OG1	1:mI:100:LYS:O	1.95	0.85
2:np:52:GLN:OE1	2:np:255:ARG:NH2	2.10	0.85
2:nR:52:GLN:OE1	2:nR:255:ARG:NH2	2.10	0.85
6:qw:11:GLU:HB3	6:qy:39:ARG:HH11	1.39	0.85
6:qy:112:LEU:CD2	6:qA:58:LEU:HD11	1.44	0.85
1:aa:99:LEU:HG	1:fw:102:GLU:HG2	1.59	0.84
2:av:197:LYS:NZ	1:hO:99:LEU:HA	1.92	0.84
2:az:103:MET:HE1	5:qJ:30:LYS:O	1.77	0.84
1:aU:62:THR:OG1	1:aU:100:LYS:O	1.95	0.84
1:bh:102:GLU:HG2	1:je:99:LEU:HG	1.59	0.84
1:cv:99:LEU:CD2	1:dN:60:ARG:CZ	2.53	0.84
2:dU:61:GLY:HA2	1:oN:103:ARG:NH1	1.91	0.84
2:dW:52:GLN:OE1	2:dW:255:ARG:NH2	2.10	0.84
1:fG:99:LEU:HG	1:kz:102:GLU:HG2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ge:52:GLN:OE1	2:ge:255:ARG:NH2	2.10	0.84
1:gk:99:LEU:HA	2:gS:197:LYS:NZ	1.92	0.84
2:gS:60:ILE:HG22	1:ic:105:THR:HG21	1.57	0.84
1:ho:105:THR:HG21	2:hG:60:ILE:HG22	1.57	0.84
2:hF:32:LEU:HA	5:qv:178:PRO:CD	2.07	0.84
1:iD:60:ARG:CZ	1:po:99:LEU:CD2	2.53	0.84
2:jA:61:GLY:HA2	1:kZ:103:ARG:NH1	1.91	0.84
2:jC:52:GLN:OE1	2:jC:255:ARG:NH2	2.10	0.84
2:IH:61:GLY:HA2	1:mT:103:ARG:NH1	1.91	0.84
1:mC:100:LYS:CG	1:oC:100:LYS:NZ	2.40	0.84
1:mE:60:ARG:CZ	1:ng:99:LEU:CD2	2.53	0.84
1:mI:99:LEU:HD21	1:ow:102:GLU:CD	2.01	0.84
4:qj:89:VAL:HG21	4:qk:245:ASP:CB	2.07	0.84
4:qj:245:ASP:CB	4:qo:89:VAL:HG21	2.07	0.84
4:ql:89:VAL:CG2	4:qm:245:ASP:CB	2.55	0.84
5:qp:229:ILE:HD12	5:qr:232:LEU:HD21	1.59	0.84
5:qp:400:TYR:CZ	5:qL:392:LEU:HD13	2.12	0.84
5:qz:392:LEU:HD13	5:qB:400:TYR:CZ	2.12	0.84
5:qB:229:ILE:CD1	5:qD:232:LEU:CD1	2.54	0.84
2:ai:197:LYS:NZ	1:nh:99:LEU:HA	1.92	0.84
2:au:172:LEU:CD1	5:qJ:178:PRO:HG2	2.06	0.84
2:aI:93:ASP:OD2	2:iW:209:TYR:OH	1.95	0.84
2:aX:197:LYS:NZ	1:ci:99:LEU:HA	1.92	0.84
1:ci:105:THR:HG21	2:pv:60:ILE:HG22	1.57	0.84
2:cn:93:ASP:OD2	2:pt:209:TYR:OH	1.95	0.84
1:dN:99:LEU:CD2	1:pC:60:ARG:CZ	2.53	0.84
2:eg:209:TYR:OH	2:nA:93:ASP:OD2	1.94	0.84
2:ey:52:GLN:OE1	2:ey:255:ARG:NH2	2.10	0.84
1:eG:102:GLU:HG2	1:gK:99:LEU:HG	1.59	0.84
2:eK:61:GLY:HA2	1:gk:103:ARG:NH1	1.91	0.84
2:eK:197:LYS:NZ	1:ic:99:LEU:HA	1.92	0.84
1:fH:60:ARG:CZ	1:mq:99:LEU:HD21	2.05	0.84
1:gh:100:LYS:CG	1:if:100:LYS:NZ	2.40	0.84
1:gn:99:LEU:HD21	1:hZ:102:GLU:CD	2.02	0.84
2:hF:93:ASP:OD2	2:kB:209:TYR:OH	1.95	0.84
1:iE:99:LEU:HA	2:pv:197:LYS:NZ	1.92	0.84
2:kc:61:GLY:HA2	1:ln:103:ARG:NH1	1.91	0.84
2:kT:52:GLN:OE1	2:kT:255:ARG:NH2	2.10	0.84
1:kY:60:ARG:NH2	1:lA:99:LEU:HD11	1.88	0.84
1:kY:99:LEU:CD1	1:oy:60:ARG:CD	2.44	0.84
1:lc:62:THR:OG1	1:lc:100:LYS:O	1.95	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lE:62:THR:OG1	1:lE:100:LYS:O	1.95	0.84
1:mc:99:LEU:HD11	1:nu:60:ARG:NH2	1.88	0.84
2:mi:93:ASP:OD2	2:mv:209:TYR:OH	1.95	0.84
2:mz:52:GLN:OE1	2:mz:255:ARG:NH2	2.10	0.84
1:mI:100:LYS:NZ	1:ow:100:LYS:CG	2.40	0.84
1:mW:62:THR:OG1	1:mW:100:LYS:O	1.95	0.84
2:of:52:GLN:OE1	2:of:255:ARG:NH2	2.10	0.84
2:pZ:52:GLN:OE1	2:pZ:255:ARG:NH2	2.10	0.84
3:qd:68:ALA:HB1	4:qm:222:GLY:C	2.02	0.84
3:qe:68:ALA:CA	4:qm:8:TYR:HE2	1.88	0.84
3:qh:61:ASP:C	4:qj:33:SER:HB2	2.01	0.84
6:qs:112:LEU:HD22	6:qu:58:LEU:HD11	0.90	0.84
5:qt:229:ILE:HD12	5:qv:232:LEU:HD21	1.59	0.84
1:ac:105:THR:HG21	2:oT:60:ILE:HG22	1.57	0.84
2:aW:93:ASP:OD2	2:bj:209:TYR:OH	1.95	0.84
1:bF:99:LEU:HG	1:lR:102:GLU:HG2	1.60	0.84
2:bM:197:LYS:NZ	1:gM:99:LEU:HA	1.92	0.84
2:bO:52:GLN:OE1	2:bO:255:ARG:NH2	2.10	0.84
2:bZ:93:ASP:OD2	2:iI:209:TYR:OH	1.95	0.84
2:dU:197:LYS:NZ	1:pD:99:LEU:HA	1.92	0.84
1:en:102:GLU:CD	1:et:99:LEU:HD21	2.01	0.84
2:fm:61:GLY:HA2	1:gy:103:ARG:NH1	1.91	0.84
1:gx:103:ARG:NH1	2:gG:198:GLU:O	2.11	0.84
2:hs:181:PRO:CG	5:qB:58:GLN:OE1	2.25	0.84
1:hE:62:THR:OG1	1:hE:100:LYS:O	1.95	0.84
1:hN:103:ARG:NH1	2:hW:198:GLU:O	2.11	0.84
1:is:102:GLU:HG2	1:oj:99:LEU:HG	1.59	0.84
1:it:100:LYS:NZ	1:jT:100:LYS:CG	2.40	0.84
1:jt:99:LEU:HD11	1:mS:60:ARG:NH2	1.88	0.84
2:jM:209:TYR:OH	2:pI:93:ASP:OD2	1.95	0.84
2:jQ:52:GLN:OE1	2:jQ:255:ARG:NH2	2.10	0.84
2:kr:52:GLN:OE1	2:kr:255:ARG:NH2	2.10	0.84
1:kX:99:LEU:HG	1:nj:102:GLU:HG2	1.59	0.84
2:lh:52:GLN:OE1	2:lh:255:ARG:NH2	2.10	0.84
1:md:103:ARG:NH1	2:mx:61:GLY:HA2	1.91	0.84
2:oV:52:GLN:OE1	2:oV:255:ARG:NH2	2.10	0.84
1:pa:103:ARG:NH1	2:pj:198:GLU:O	2.11	0.84
1:pQ:103:ARG:NH1	2:pZ:198:GLU:O	2.11	0.84
3:qf:65:GLY:HA2	4:qk:220:SER:N	1.91	0.84
3:qf:66:GLN:CA	4:ql:10:GLN:HG2	2.07	0.84
4:qk:89:VAL:CG2	4:ql:245:ASP:CB	2.55	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:qn:177:MET:HE1	4:qo:206:TYR:HE1	1.39	0.84
6:qu:109:SER:OG	6:qw:53:HIS:CD2	2.29	0.84
5:qv:229:ILE:HD12	5:qx:232:LEU:HD21	1.59	0.84
6:qE:109:SER:OG	6:qG:53:HIS:CD2	2.29	0.84
2:au:204:PHE:HE1	5:qL:178:PRO:HG3	1.42	0.84
1:aG:62:THR:OG1	1:aG:100:LYS:O	1.95	0.84
2:aJ:197:LYS:NZ	1:kL:99:LEU:HA	1.92	0.84
1:aQ:60:ARG:CZ	1:jf:99:LEU:CD2	2.53	0.84
2:bz:197:LYS:NZ	1:eS:99:LEU:HA	1.92	0.84
1:bE:100:LYS:HG2	1:hR:100:LYS:HZ2	1.38	0.84
1:ch:103:ARG:NH1	2:cq:198:GLU:O	2.11	0.84
2:cq:52:GLN:OE1	2:cq:255:ARG:NH2	2.10	0.84
1:cM:102:GLU:HG2	1:pB:99:LEU:HG	1.59	0.84
2:cS:52:GLN:OE1	2:cS:255:ARG:NH2	2.10	0.84
1:cX:99:LEU:CD2	1:gx:60:ARG:NE	2.38	0.84
2:dc:209:TYR:OH	2:eJ:93:ASP:OD2	1.95	0.84
1:ff:60:ARG:CZ	1:ib:99:LEU:CD2	2.53	0.84
1:ff:103:ARG:NH1	2:fo:198:GLU:O	2.11	0.84
1:fg:103:ARG:NH1	2:nB:61:GLY:HA2	1.91	0.84
2:fl:93:ASP:OD2	2:nz:209:TYR:OH	1.95	0.84
1:fH:60:ARG:NH2	1:mq:99:LEU:HD11	1.88	0.84
1:fV:99:LEU:HD11	1:mc:60:ARG:NH2	1.88	0.84
1:gw:99:LEU:HG	1:pd:102:GLU:HG2	1.59	0.84
1:gP:99:LEU:HD21	1:in:102:GLU:CD	2.01	0.84
2:hg:197:LYS:NZ	1:mr:99:LEU:HA	1.92	0.84
1:hB:99:LEU:HA	2:IV:197:LYS:NZ	1.92	0.84
1:hD:102:GLU:HG2	1:kJ:99:LEU:HG	1.59	0.84
1:ie:102:GLU:HG2	1:nt:99:LEU:HG	1.60	0.84
1:jf:103:ARG:NH1	2:jo:198:GLU:O	2.11	0.84
1:kK:103:ARG:NH1	2:kT:198:GLU:O	2.11	0.84
1:kL:105:THR:HG21	2:mZ:60:ILE:HG22	1.57	0.84
1:kY:60:ARG:CZ	1:lA:99:LEU:HD21	2.05	0.84
2:nl:209:TYR:OH	2:oE:93:ASP:OD2	1.95	0.84
1:nu:103:ARG:NH1	2:nD:198:GLU:O	2.11	0.84
1:ok:103:ARG:NH1	2:ot:198:GLU:O	2.11	0.84
1:oM:103:ARG:NH1	2:oV:198:GLU:O	2.11	0.84
3:qe:25:LEU:HD11	6:qy:82:VAL:H	1.42	0.84
3:qh:55:GLU:CD	4:qj:223:ASN:ND2	2.34	0.84
5:qp:229:ILE:HD11	5:qr:232:LEU:CD1	2.07	0.84
1:ab:60:ARG:CZ	1:mE:99:LEU:CD2	2.53	0.84
2:ag:61:GLY:HA2	1:oO:103:ARG:HD2	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:at:99:LEU:HD21	1:bR:102:GLU:CD	2.02	0.84
1:aC:103:ARG:NH1	2:aL:198:GLU:O	2.11	0.84
2:bk:93:ASP:OD2	2:dq:209:TYR:OH	1.95	0.84
1:bt:99:LEU:HA	2:ca:197:LYS:NZ	1.92	0.84
2:bB:52:GLN:OE1	2:bB:255:ARG:NH2	2.10	0.84
1:bW:102:GLU:HG2	1:hM:99:LEU:HG	1.60	0.84
1:dl:103:ARG:NH1	2:du:198:GLU:O	2.11	0.84
1:dz:103:ARG:NH1	2:dI:198:GLU:O	2.11	0.84
2:eI:209:TYR:OH	2:gp:93:ASP:OD2	1.95	0.84
2:fa:52:GLN:OE1	2:fa:255:ARG:NH2	2.10	0.84
1:fl:103:ARG:NH1	2:gc:61:GLY:HA2	1.91	0.84
1:gY:99:LEU:HG	1:oB:102:GLU:HG2	1.59	0.84
2:hs:184:TYR:CD1	5:qB:178:PRO:HA	2.12	0.84
2:hx:189:LYS:CE	5:qx:51:GLU:CG	2.56	0.84
2:hI:52:GLN:OE1	2:hI:255:ARG:NH2	2.10	0.84
1:ia:99:LEU:HG	1:nx:102:GLU:HG2	1.59	0.84
2:iu:209:TYR:OH	2:jN:93:ASP:OD2	1.95	0.84
2:iM:52:GLN:OE1	2:iM:255:ARG:NH2	2.10	0.84
2:ja:52:GLN:OE1	2:ja:255:ARG:NH2	2.10	0.84
1:jg:103:ARG:NH1	2:lt:61:GLY:HA2	1.91	0.84
1:ju:99:LEU:HA	2:kc:197:LYS:NZ	1.92	0.84
1:jx:62:THR:OG1	1:jx:100:LYS:O	1.95	0.84
2:ko:32:LEU:HG	5:qF:177:SER:HB3	0.86	0.84
2:kD:197:LYS:NZ	1:lP:99:LEU:HA	1.92	0.84
1:lm:103:ARG:NH1	2:lv:198:GLU:O	2.11	0.84
1:lB:99:LEU:HA	2:oF:197:LYS:NZ	1.92	0.84
1:ok:102:GLU:CB	1:oM:99:LEU:HD22	1.98	0.84
1:po:103:ARG:NH1	2:px:198:GLU:O	2.11	0.84
2:pL:52:GLN:OE1	2:pL:255:ARG:NH2	2.10	0.84
5:qp:232:LEU:HD21	5:qL:229:ILE:HD12	1.59	0.84
6:qq:109:SER:OG	6:qs:53:HIS:CD2	2.29	0.84
6:qq:112:LEU:CD2	6:qs:58:LEU:HD11	1.44	0.84
5:qv:229:ILE:CD1	5:qx:232:LEU:HD21	2.08	0.84
1:aA:100:LYS:CG	1:kn:100:LYS:NZ	2.40	0.84
2:aH:209:TYR:OH	2:kb:93:ASP:OD2	1.95	0.84
2:aL:52:GLN:OE1	2:aL:255:ARG:NH2	2.10	0.84
1:bU:99:LEU:HA	2:eY:197:LYS:NZ	1.92	0.84
2:du:52:GLN:OE1	2:du:255:ARG:NH2	2.10	0.84
1:en:100:LYS:CG	1:et:100:LYS:NZ	2.40	0.84
1:fx:100:LYS:NZ	1:ns:100:LYS:CG	2.40	0.84
2:fC:52:GLN:OE1	2:fC:255:ARG:NH2	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fH:99:LEU:CD1	1:gZ:60:ARG:CD	2.44	0.84
1:fH:103:ARG:NH1	2:fQ:198:GLU:O	2.11	0.84
2:gG:52:GLN:OE1	2:gG:255:ARG:NH2	2.10	0.84
1:gP:100:LYS:HZ3	1:in:100:LYS:CG	1.84	0.84
1:hd:62:THR:OG1	1:hd:100:LYS:O	1.95	0.84
2:he:209:TYR:OH	2:lG:93:ASP:OD2	1.94	0.84
1:ho:103:ARG:NH1	2:hG:61:GLY:HA2	1.91	0.84
1:ib:103:ARG:NH1	2:ik:198:GLU:O	2.11	0.84
1:jj:62:THR:OG1	1:jj:100:LYS:O	1.95	0.84
1:kj:103:ARG:NH1	2:kr:198:GLU:O	2.11	0.84
2:kF:52:GLN:OE1	2:kF:255:ARG:NH2	2.10	0.84
1:lc:99:LEU:HD21	1:mQ:102:GLU:CD	2.01	0.84
2:lJ:52:GLN:OE1	2:lJ:255:ARG:NH2	2.10	0.84
2:or:60:ILE:HG22	1:pR:105:THR:HG21	1.57	0.84
3:qd:61:ASP:C	4:qn:33:SER:HB2	2.01	0.84
3:qf:55:GLU:CB	4:ql:223:ASN:ND2	2.41	0.84
3:qi:60:ALA:O	4:qo:33:SER:OG	1.96	0.84
4:qk:89:VAL:HG21	4:ql:245:ASP:CB	2.07	0.84
6:qE:112:LEU:CD2	6:qG:58:LEU:HD11	1.44	0.84
5:qF:229:ILE:CD1	5:qH:232:LEU:HD21	2.08	0.84
1:ab:103:ARG:NH1	2:ak:198:GLU:O	2.11	0.84
2:az:103:MET:CG	5:qJ:32:PHE:HE2	1.89	0.84
1:aP:99:LEU:CD2	1:pr:102:GLU:CG	2.48	0.84
1:bI:103:ARG:HD2	2:hF:61:GLY:HA2	1.60	0.84
1:bX:99:LEU:HD21	1:dx:102:GLU:CD	2.01	0.84
2:co:60:ILE:HG22	1:iq:105:THR:HG21	1.57	0.84
1:es:102:GLU:HG2	1:nV:99:LEU:HG	1.59	0.84
2:ew:197:LYS:NZ	1:nJ:99:LEU:HA	1.92	0.84
1:eH:62:THR:OG1	1:eH:100:LYS:O	1.95	0.84
2:eK:60:ILE:HG22	1:gk:105:THR:HG21	1.57	0.84
1:eR:103:ARG:NH1	2:fa:198:GLU:O	2.11	0.84
1:fj:62:THR:OG1	1:fj:100:LYS:O	1.95	0.84
1:fj:99:LEU:HD21	1:gJ:102:GLU:CD	2.02	0.84
1:hr:62:THR:OG1	1:hr:100:LYS:O	1.95	0.84
2:hv:52:GLN:OE1	2:hv:255:ARG:NH2	2.10	0.84
2:hx:95:ASN:CB	5:qz:44:LYS:CA	2.35	0.84
2:iy:52:GLN:OE1	2:iy:255:ARG:NH2	2.10	0.84
2:jl:93:ASP:OD2	2:lr:209:TYR:OH	1.95	0.84
2:ke:52:GLN:OE1	2:ke:255:ARG:NH2	2.10	0.84
1:mE:103:ARG:NH1	2:mN:198:GLU:O	2.11	0.84
2:pj:52:GLN:OE1	2:pj:255:ARG:NH2	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ps:62:THR:OG1	1:ps:100:LYS:O	1.95	0.84
5:qp:229:ILE:CD1	5:qr:232:LEU:HD21	2.08	0.84
5:qB:229:ILE:HD12	5:qD:232:LEU:HD21	1.59	0.84
5:qB:392:LEU:HD13	5:qD:400:TYR:CZ	2.11	0.84
6:qK:109:SER:OG	6:qM:53:HIS:CD2	2.29	0.84
1:ar:103:ARG:HD2	2:bL:61:GLY:HA2	1.60	0.84
2:aV:209:TYR:OH	2:iJ:93:ASP:OD2	1.94	0.84
1:bX:62:THR:OG1	1:bX:100:LYS:O	1.95	0.84
1:ch:99:LEU:HD22	1:jf:102:GLU:CB	1.98	0.84
1:ci:103:ARG:NH1	2:pv:61:GLY:HA2	1.91	0.84
1:ct:102:GLU:CD	1:ps:99:LEU:HD21	2.02	0.84
2:cC:197:LYS:NZ	1:dO:99:LEU:HA	1.92	0.84
2:cE:52:GLN:OE1	2:cE:255:ARG:NH2	2.10	0.84
1:dO:103:ARG:NH1	2:nP:61:GLY:HA2	1.91	0.84
2:ek:52:GLN:OE1	2:ek:255:ARG:NH2	2.10	0.84
1:fH:60:ARG:CD	1:mq:99:LEU:CD1	2.44	0.84
2:fN:93:ASP:OD2	2:ga:209:TYR:OH	1.95	0.84
2:gc:197:LYS:HZ2	1:md:100:LYS:N	1.73	0.84
2:gR:93:ASP:OD2	2:IT:209:TYR:OH	1.95	0.84
1:gX:100:LYS:CG	1:lS:100:LYS:NZ	2.40	0.84
1:ip:60:ARG:CZ	1:lm:99:LEU:CD2	2.53	0.84
2:ml:52:GLN:OE1	2:ml:255:ARG:NH2	2.10	0.84
1:nk:99:LEU:HD21	1:oK:102:GLU:CD	2.02	0.84
2:px:52:GLN:OE1	2:px:255:ARG:NH2	2.10	0.84
3:qe:63:GLN:HE22	4:ql:222:GLY:N	1.74	0.84
3:qh:61:ASP:HA	4:qj:33:SER:HB2	1.55	0.84
4:qn:89:VAL:HG21	4:qo:245:ASP:CB	2.07	0.84
6:qq:53:HIS:CD2	6:qM:109:SER:OG	2.30	0.84
5:qF:229:ILE:HD12	5:qH:232:LEU:HD21	1.59	0.84
1:ad:103:ARG:HD2	2:ob:61:GLY:HA2	1.60	0.84
2:ag:209:TYR:OH	2:oc:93:ASP:OD2	1.95	0.84
1:ao:99:LEU:HG	1:gm:102:GLU:HG2	1.60	0.84
1:aB:99:LEU:HG	1:mV:102:GLU:HG2	1.59	0.84
1:aC:60:ARG:CD	1:hn:99:LEU:CD1	2.44	0.84
1:aG:100:LYS:HZ3	1:kh:100:LYS:CG	1.88	0.84
1:bf:99:LEU:HA	2:kp:197:LYS:NZ	1.92	0.84
1:bs:102:GLU:CB	1:bT:99:LEU:HD22	1.98	0.84
1:bG:103:ARG:NH1	2:bO:198:GLU:O	2.11	0.84
2:bM:60:ILE:HG22	1:hB:105:THR:HG21	1.57	0.84
1:bT:103:ARG:NH1	2:cc:198:GLU:O	2.11	0.84
2:cA:209:TYR:OH	2:pg:93:ASP:OD2	1.95	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cX:99:LEU:CD1	1:gx:60:ARG:CD	2.44	0.84
1:cX:103:ARG:NH1	2:dg:198:GLU:O	2.11	0.84
2:de:197:LYS:NZ	1:gy:99:LEU:HA	1.92	0.84
1:dm:99:LEU:HA	2:hU:197:LYS:NZ	1.92	0.84
1:dN:103:ARG:NH1	2:dW:198:GLU:O	2.11	0.84
1:ef:62:THR:OG1	1:ef:100:LYS:O	1.95	0.84
1:et:62:THR:OG1	1:et:100:LYS:O	1.95	0.84
1:eD:103:ARG:NH1	2:eM:198:GLU:O	2.11	0.84
1:eU:102:GLU:HG2	1:iC:99:LEU:HG	1.59	0.84
1:fH:99:LEU:CD2	1:gZ:60:ARG:CZ	2.53	0.84
2:fM:209:TYR:OH	2:lU:93:ASP:OD2	1.94	0.84
1:hc:102:GLU:HG2	1:ox:99:LEU:HG	1.59	0.84
1:hy:102:GLU:CD	1:hE:99:LEU:HD21	2.02	0.84
1:hA:103:ARG:NH1	2:hI:198:GLU:O	2.11	0.84
1:iR:99:LEU:CD2	1:kj:60:ARG:CZ	2.53	0.84
1:jL:100:LYS:NZ	1:pO:100:LYS:CG	2.40	0.84
2:ko:188:MET:HE2	5:qH:176:ASN:CG	1.99	0.84
1:kY:103:ARG:NH1	2:lh:198:GLU:O	2.11	0.84
1:kZ:99:LEU:HA	2:lH:197:LYS:NZ	1.92	0.84
1:lq:62:THR:OG1	1:lq:100:LYS:O	1.95	0.84
2:IX:52:GLN:OE1	2:IX:255:ARG:NH2	2.10	0.84
1:nI:99:LEU:CD2	1:pa:60:ARG:CZ	2.53	0.84
1:nM:62:THR:OG1	1:nM:100:LYS:O	1.95	0.84
1:pe:62:THR:OG1	1:pe:100:LYS:O	1.95	0.84
5:qB:229:ILE:HD11	5:qD:232:LEU:CD1	2.08	0.84
6:qC:112:LEU:HD22	6:qE:58:LEU:HD11	0.90	0.84
6:qG:112:LEU:CD2	6:qI:58:LEU:HD11	1.44	0.84
2:ax:52:GLN:OE1	2:ax:255:ARG:NH2	2.10	0.84
1:aA:102:GLU:CD	1:kn:99:LEU:HD21	2.01	0.84
1:aG:100:LYS:NZ	1:kh:100:LYS:CG	2.40	0.84
2:aJ:60:ILE:HG22	1:jW:105:THR:HG21	1.57	0.84
2:cB:93:ASP:OD2	2:cO:209:TYR:OH	1.95	0.84
1:db:102:GLU:OE2	2:eJ:197:LYS:HE3	1.78	0.84
2:de:60:ILE:HG22	1:eE:105:THR:HG21	1.57	0.84
1:dR:62:THR:OG1	1:dR:100:LYS:O	1.95	0.84
2:gs:52:GLN:OE1	2:gs:255:ARG:NH2	2.10	0.84
2:hW:52:GLN:OE1	2:hW:255:ARG:NH2	2.10	0.84
1:iD:103:ARG:NH1	2:iM:198:GLU:O	2.11	0.84
1:jV:103:ARG:NH1	2:ke:198:GLU:O	2.11	0.84
2:lf:197:LYS:NZ	1:oz:99:LEU:HA	1.92	0.84
1:mD:99:LEU:HG	1:oP:102:GLU:HG2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qd:68:ALA:CA	4:qn:8:TYR:CE2	2.61	0.84
3:qe:66:GLN:CA	4:qm:8:TYR:O	2.26	0.84
5:qp:232:LEU:HD21	5:qL:229:ILE:CD1	2.08	0.84
6:qs:109:SER:OG	6:qu:53:HIS:CD2	2.29	0.84
5:qB:229:ILE:CD1	5:qD:232:LEU:HD21	2.08	0.84
2:bn:52:GLN:OE1	2:bn:255:ARG:NH2	2.10	0.83
1:bs:103:ARG:NH1	2:bB:198:GLU:O	2.11	0.83
1:cJ:103:ARG:NH1	2:cS:198:GLU:O	2.11	0.83
1:cY:99:LEU:HA	2:dG:197:LYS:NZ	1.92	0.83
1:dB:103:ARG:HD2	2:eW:61:GLY:HA2	1.60	0.83
2:dU:60:ILE:HG22	1:oN:105:THR:HG21	1.57	0.83
1:eb:60:ARG:CZ	1:nW:99:LEU:CD2	2.53	0.83
2:fz:197:LYS:HE3	1:mg:102:GLU:OE2	1.78	0.83
1:fF:100:LYS:CG	1:mg:100:LYS:NZ	2.40	0.83
1:fI:99:LEU:HA	2:mx:197:LYS:NZ	1.92	0.83
2:fQ:52:GLN:OE1	2:fQ:255:ARG:NH2	2.10	0.83
2:gb:197:LYS:HE3	1:if:102:GLU:OE2	1.78	0.83
1:ho:99:LEU:HA	2:kR:197:LYS:NZ	1.92	0.83
2:hs:61:GLY:HA2	1:hC:103:ARG:HD2	1.60	0.83
1:iq:99:LEU:HA	2:lt:197:LYS:NZ	1.92	0.83
2:mw:197:LYS:HE3	1:oC:102:GLU:OE2	1.78	0.83
1:nI:103:ARG:NH1	2:nR:198:GLU:O	2.11	0.83
1:oC:62:THR:OG1	1:oC:100:LYS:O	1.95	0.83
3:qh:65:GLY:N	4:qo:219:ILE:HG23	1.93	0.83
5:qp:392:LEU:HD13	5:qr:400:TYR:CZ	2.12	0.83
6:qw:109:SER:OG	6:qy:53:HIS:CD2	2.29	0.83
5:qz:229:ILE:CD1	5:qB:232:LEU:HD21	2.08	0.83
1:bu:103:ARG:HD2	2:dc:61:GLY:HA2	1.60	0.83
2:cm:209:TYR:OH	2:iv:93:ASP:OD2	1.95	0.83
1:cx:103:ARG:HD2	2:pf:61:GLY:HA2	1.60	0.83
2:cQ:197:LYS:NZ	1:pp:99:LEU:HA	1.92	0.83
1:ea:99:LEU:HG	1:mf:102:GLU:HG2	1.59	0.83
2:ev:197:LYS:HE3	1:gB:102:GLU:OE2	1.78	0.83
1:fV:60:ARG:NH2	1:nu:99:LEU:HD11	1.88	0.83
1:fZ:62:THR:OG1	1:fZ:100:LYS:O	1.95	0.83
1:gX:102:GLU:CD	1:lS:99:LEU:HD21	2.01	0.83
1:hn:103:ARG:NH1	2:hv:198:GLU:O	2.11	0.83
2:hG:197:LYS:NZ	1:kx:99:LEU:HA	1.92	0.83
1:jt:99:LEU:CD2	1:mS:60:ARG:CZ	2.53	0.83
1:jv:103:ARG:HD2	2:ld:61:GLY:HA2	1.60	0.83
1:jZ:99:LEU:HD21	1:ly:102:GLU:CD	2.02	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jZ:102:GLU:OE2	2:ls:197:LYS:HE3	1.78	0.83
1:lE:99:LEU:HD21	1:ne:102:GLU:CD	2.01	0.83
1:lE:100:LYS:NZ	1:ne:100:LYS:CG	2.40	0.83
2:mw:93:ASP:OD2	2:oD:209:TYR:OH	1.95	0.83
1:mH:102:GLU:HG2	1:oL:99:LEU:HG	1.59	0.83
2:mN:52:GLN:OE1	2:mN:255:ARG:NH2	2.10	0.83
1:oo:99:LEU:HD21	1:qc:102:GLU:CD	2.01	0.83
3:qh:68:ALA:H	4:qj:8:TYR:HE2	0.86	0.83
4:qm:89:VAL:CG2	4:qn:245:ASP:CB	2.55	0.83
5:qt:229:ILE:HD11	5:qv:232:LEU:CD1	2.08	0.83
1:af:102:GLU:OE2	2:oc:197:LYS:HE3	1.78	0.83
2:az:183:ILE:CG1	5:qH:178:PRO:CB	2.50	0.83
2:bj:61:GLY:HA2	1:dn:103:ARG:HD2	1.60	0.83
1:bs:102:GLU:HB3	1:bT:99:LEU:CD2	2.09	0.83
1:cl:102:GLU:OE2	2:iv:197:LYS:HE3	1.78	0.83
1:cv:102:GLU:CB	1:pC:99:LEU:HD22	1.98	0.83
1:cv:103:ARG:NH1	2:cE:198:GLU:O	2.11	0.83
1:cJ:102:GLU:HB3	1:iD:99:LEU:CD2	2.09	0.83
1:dz:60:ARG:CZ	1:gx:99:LEU:CD2	2.53	0.83
1:ef:102:GLU:OE2	2:nA:197:LYS:HE3	1.78	0.83
2:gc:197:LYS:HZ1	1:md:99:LEU:CA	1.90	0.83
1:gj:103:ARG:NH1	2:gs:198:GLU:O	2.11	0.83
1:gL:103:ARG:NH1	2:gU:198:GLU:O	2.11	0.83
1:hz:99:LEU:HG	1:kN:102:GLU:HG2	1.59	0.83
1:ip:99:LEU:CD2	1:pQ:102:GLU:HB3	2.09	0.83
1:iR:103:ARG:NH1	2:ja:198:GLU:O	2.11	0.83
1:kI:100:LYS:CG	1:kO:100:LYS:NZ	2.40	0.83
1:lm:60:ARG:CZ	1:pQ:99:LEU:CD2	2.53	0.83
2:nD:52:GLN:OE1	2:nD:255:ARG:NH2	2.10	0.83
2:pu:197:LYS:HE3	1:pG:102:GLU:OE2	1.78	0.83
4:ql:89:VAL:HG21	4:qm:245:ASP:CB	2.07	0.83
5:qx:392:LEU:HD13	5:qz:400:TYR:CZ	2.12	0.83
5:qH:229:ILE:HD12	5:qJ:232:LEU:HD21	1.59	0.83
2:ak:52:GLN:OE1	2:ak:255:ARG:NH2	2.10	0.83
2:au:61:GLY:HA2	1:kl:103:ARG:HD2	1.60	0.83
1:aC:102:GLU:HB3	1:hn:99:LEU:CD2	2.09	0.83
1:aQ:103:ARG:NH1	2:aZ:198:GLU:O	2.11	0.83
1:bG:99:LEU:CD2	1:gL:102:GLU:HB3	2.09	0.83
1:cl:62:THR:OG1	1:cl:100:LYS:O	1.95	0.83
1:dl:102:GLU:HB3	1:hN:99:LEU:CD2	2.09	0.83
2:dI:52:GLN:OE1	2:dI:255:ARG:NH2	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dS:209:TYR:OH	2:oS:93:ASP:OD2	1.95	0.83
1:ec:99:LEU:HA	2:od:197:LYS:NZ	1.92	0.83
1:ep:102:GLU:HB3	1:pa:99:LEU:CD2	2.09	0.83
1:ff:102:GLU:HB3	1:ib:99:LEU:CD2	2.09	0.83
1:fr:100:LYS:CG	1:ny:100:LYS:NZ	2.40	0.83
1:fu:105:THR:HG21	2:mj:60:ILE:HG22	1.57	0.83
1:fT:100:LYS:CG	1:fZ:100:LYS:NZ	2.40	0.83
1:fV:103:ARG:NH1	2:ge:198:GLU:O	2.11	0.83
2:gb:93:ASP:OD2	2:ig:209:TYR:OH	1.95	0.83
2:ht:61:GLY:HA2	1:kk:103:ARG:NH1	1.91	0.83
2:hx:184:TYR:CD2	5:qz:30:LYS:O	2.30	0.83
1:hy:100:LYS:CG	1:hE:100:LYS:NZ	2.40	0.83
1:if:62:THR:OG1	1:if:100:LYS:O	1.95	0.83
2:iY:197:LYS:NZ	1:kk:99:LEU:HA	1.92	0.83
1:jd:100:LYS:CG	1:jj:100:LYS:HZ3	1.84	0.83
1:jt:103:ARG:NH1	2:jC:198:GLU:O	2.11	0.83
1:jH:102:GLU:HB3	1:ok:99:LEU:CD2	2.09	0.83
1:kw:103:ARG:NH1	2:kF:198:GLU:O	2.11	0.83
1:kA:62:THR:OG1	1:kA:100:LYS:O	1.95	0.83
2:lv:52:GLN:OE1	2:lv:255:ARG:NH2	2.10	0.83
1:lO:103:ARG:NH1	2:lX:198:GLU:O	2.11	0.83
1:pp:105:THR:HG21	2:pJ:60:ILE:HG22	1.57	0.83
3:qh:64:GLY:O	4:qo:220:SER:C	2.20	0.83
3:qh:65:GLY:C	4:qj:10:GLN:HG2	2.02	0.83
5:qp:232:LEU:CD1	5:qL:229:ILE:HD11	2.07	0.83
5:qH:229:ILE:CD1	5:qJ:232:LEU:HD21	2.08	0.83
1:ab:60:ARG:CD	1:mE:99:LEU:CD1	2.44	0.83
1:af:62:THR:OG1	1:af:100:LYS:O	1.95	0.83
1:ap:99:LEU:CD2	1:hN:60:ARG:CZ	2.53	0.83
2:aH:61:GLY:HA2	1:iT:103:ARG:HD2	1.60	0.83
1:bG:99:LEU:CD2	1:gL:60:ARG:CZ	2.53	0.83
1:bJ:102:GLU:HG2	1:lN:99:LEU:HG	1.59	0.83
1:bK:62:THR:OG1	1:bK:100:LYS:O	1.95	0.83
2:ca:60:ILE:HG22	1:dm:105:THR:HG21	1.57	0.83
2:co:197:LYS:NZ	1:jg:99:LEU:HA	1.92	0.83
1:cv:60:ARG:CZ	1:pC:99:LEU:CD2	2.53	0.83
1:cz:62:THR:OG1	1:cz:100:LYS:O	1.95	0.83
1:cI:99:LEU:HG	1:pF:102:GLU:HG2	1.59	0.83
1:cN:62:THR:OG1	1:cN:100:LYS:O	1.95	0.83
1:dA:99:LEU:HA	2:gE:197:LYS:NZ	1.92	0.83
1:dP:103:ARG:HD2	2:oR:61:GLY:HA2	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eo:99:LEU:HG	1:nZ:102:GLU:HG2	1.59	0.83
1:eq:99:LEU:HA	2:ph:197:LYS:NZ	1.92	0.83
2:fo:52:GLN:OE1	2:fo:255:ARG:NH2	2.10	0.83
1:fH:99:LEU:CD2	1:gZ:102:GLU:HB3	2.09	0.83
1:fW:99:LEU:HA	2:nB:197:LYS:NZ	1.92	0.83
2:hx:184:TYR:CE2	5:qz:30:LYS:HB3	2.12	0.83
1:ip:103:ARG:NH1	2:iy:198:GLU:O	2.11	0.83
1:it:99:LEU:HD21	1:jT:102:GLU:CD	2.02	0.83
1:jH:103:ARG:NH1	2:jQ:198:GLU:O	2.11	0.83
1:kO:62:THR:OG1	1:kO:100:LYS:O	1.95	0.83
1:lb:102:GLU:HG2	1:nf:99:LEU:HG	1.60	0.83
1:mc:103:ARG:NH1	2:ml:198:GLU:O	2.11	0.83
2:mj:197:LYS:NZ	1:nv:99:LEU:HA	1.92	0.83
1:nI:99:LEU:HD11	1:pa:60:ARG:NH2	1.88	0.83
2:nN:61:GLY:HA2	1:nY:103:ARG:HD2	1.60	0.83
2:nO:93:ASP:OD2	2:ob:209:TYR:OH	1.94	0.83
2:nP:197:LYS:NZ	1:pb:99:LEU:HA	1.92	0.83
1:nW:103:ARG:NH1	2:of:198:GLU:O	2.11	0.83
3:qi:66:GLN:HB2	4:qo:8:TYR:O	1.79	0.83
4:qj:245:ASP:CB	4:qo:89:VAL:CG2	2.55	0.83
4:qm:89:VAL:HG21	4:qn:245:ASP:CB	2.08	0.83
5:qx:229:ILE:CD1	5:qz:232:LEU:HD21	2.08	0.83
1:ac:99:LEU:HA	2:mL:197:LYS:NZ	1.92	0.83
1:ap:103:ARG:NH1	2:ax:198:GLU:O	2.11	0.83
1:aD:105:THR:HG21	2:iY:60:ILE:HG22	1.57	0.83
1:aS:103:ARG:HD2	2:iI:61:GLY:HA2	1.60	0.83
2:aW:197:LYS:HE3	1:bi:102:GLU:OE2	1.78	0.83
1:be:103:ARG:NH1	2:bn:198:GLU:O	2.11	0.83
1:bi:62:THR:OG1	1:bi:100:LYS:O	1.95	0.83
2:bl:197:LYS:NZ	1:iS:99:LEU:HA	1.92	0.83
1:bw:62:THR:OG1	1:bw:100:LYS:O	1.95	0.83
1:cz:102:GLU:OE2	2:pg:197:LYS:HE3	1.79	0.83
1:dQ:102:GLU:HG2	1:jG:99:LEU:HG	1.59	0.83
1:eb:102:GLU:HB3	1:nW:99:LEU:CD2	2.09	0.83
1:eb:103:ARG:NH1	2:ek:198:GLU:O	2.11	0.83
2:eM:52:GLN:OE1	2:eM:255:ARG:NH2	2.10	0.83
2:fl:197:LYS:HE3	1:ny:102:GLU:OE2	1.78	0.83
2:fy:61:GLY:HA2	1:me:103:ARG:HD2	1.60	0.83
1:fL:100:LYS:NZ	1:ma:100:LYS:CG	2.40	0.83
2:fo:197:LYS:NZ	1:ha:99:LEU:HA	1.92	0.83
2:gp:282:ARG:NH2	2:hT:282:ARG:CZ	2.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gB:62:THR:OG1	1:gB:100:LYS:O	1.95	0.83
2:he:61:GLY:HA2	1:ky:103:ARG:HD2	1.60	0.83
2:hs:111:GLY:HA3	5:qB:176:ASN:HB3	1.58	0.83
1:iH:62:THR:OG1	1:iH:100:LYS:O	1.95	0.83
1:iS:105:THR:HG21	2:jm:60:ILE:HG22	1.57	0.83
1:jJ:103:ARG:HD2	2:pH:61:GLY:HA2	1.60	0.83
1:mc:99:LEU:HD22	1:nu:102:GLU:CB	1.98	0.83
1:mg:62:THR:OG1	1:mg:100:LYS:O	1.95	0.83
1:ng:103:ARG:NH1	2:np:198:GLU:O	2.11	0.83
2:nO:282:ARG:CZ	2:oc:282:ARG:NH2	2.42	0.83
1:nU:100:LYS:CG	1:oa:100:LYS:NZ	2.40	0.83
1:ok:102:GLU:HB3	1:oM:99:LEU:CD2	2.09	0.83
3:qi:68:ALA:CB	4:qo:8:TYR:HH	1.90	0.83
4:qj:89:VAL:CG2	4:qk:245:ASP:CB	2.55	0.83
5:qt:229:ILE:CD1	5:qv:232:LEU:HD21	2.08	0.83
1:aC:99:LEU:CD2	1:kK:102:GLU:HB3	2.09	0.83
1:aG:102:GLU:OE2	2:kb:197:LYS:HE3	1.78	0.83
1:bG:102:GLU:HB3	1:gj:99:LEU:CD2	2.09	0.83
2:bZ:282:ARG:CZ	2:iJ:282:ARG:NH2	2.42	0.83
1:ch:99:LEU:CD2	1:jf:102:GLU:HB3	2.09	0.83
2:cn:282:ARG:NH2	2:iv:282:ARG:CZ	2.42	0.83
2:cP:93:ASP:OD2	2:eW:209:TYR:OH	1.95	0.83
1:cZ:103:ARG:HD2	2:eI:61:GLY:HA2	1.60	0.83
1:dp:62:THR:OG1	1:dp:100:LYS:O	1.95	0.83
1:dN:99:LEU:CD2	1:pC:102:GLU:HB3	2.09	0.83
1:dR:100:LYS:NZ	1:oY:100:LYS:CG	2.40	0.83
1:ee:102:GLU:HG2	1:mb:99:LEU:HG	1.59	0.83
1:ef:100:LYS:NZ	1:nG:100:LYS:CG	2.40	0.83
1:ff:60:ARG:NH2	1:ib:99:LEU:HD11	1.88	0.83
2:fk:61:GLY:HA2	1:nw:103:ARG:HD2	1.60	0.83
2:fl:282:ARG:NH2	2:gD:282:ARG:CZ	2.42	0.83
1:fL:62:THR:OG1	1:fL:100:LYS:O	1.95	0.83
1:fL:102:GLU:OE2	2:lU:197:LYS:HE3	1.78	0.83
1:hq:102:GLU:HG2	1:iQ:99:LEU:HG	1.59	0.83
2:hx:96:LEU:HD22	5:qz:47:ARG:HD2	1.25	0.83
1:ip:102:GLU:HB3	1:lm:99:LEU:CD2	2.09	0.83
1:jr:102:GLU:CD	1:lq:99:LEU:HD21	2.01	0.83
1:jF:100:LYS:CG	1:pU:100:LYS:NZ	2.40	0.83
1:jL:62:THR:OG1	1:jL:100:LYS:O	1.95	0.83
2:kQ:197:LYS:HE3	1:mW:102:GLU:OE2	1.79	0.83
1:mF:99:LEU:HA	2:nn:197:LYS:NZ	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mS:103:ARG:NH1	2:nb:198:GLU:O	2.11	0.83
2:nb:52:GLN:OE1	2:nb:255:ARG:NH2	2.10	0.83
2:nO:197:LYS:HE3	1:oa:102:GLU:OE2	1.78	0.83
1:pC:103:ARG:NH1	2:pL:198:GLU:O	2.11	0.83
6:qq:58:LEU:HD11	6:qM:112:LEU:CD2	1.44	0.83
5:qH:229:ILE:HD11	5:qJ:232:LEU:CD1	2.08	0.83
1:ab:99:LEU:CD2	1:ng:60:ARG:CZ	2.53	0.83
1:aT:102:GLU:CG	1:pn:99:LEU:CD2	2.48	0.83
1:be:99:LEU:CD2	1:iR:102:GLU:HB3	2.09	0.83
1:bs:99:LEU:CD2	1:eR:102:GLU:HB3	2.09	0.83
1:bK:99:LEU:HD21	1:hL:102:GLU:CD	2.01	0.83
1:cg:99:LEU:HG	1:lp:102:GLU:HG2	1.59	0.83
1:dl:102:GLU:CB	1:hN:99:LEU:HD22	1.98	0.83
1:dD:102:GLU:OE2	2:eX:197:LYS:HE3	1.78	0.83
1:ft:103:ARG:NH1	2:fC:198:GLU:O	2.11	0.83
1:fx:99:LEU:HD21	1:ns:102:GLU:CD	2.01	0.83
2:fM:61:GLY:HA2	1:fX:103:ARG:HD2	1.60	0.83
1:hr:99:LEU:HD21	1:ku:102:GLU:CD	2.02	0.83
2:ht:60:ILE:HG22	1:kk:105:THR:HG21	1.57	0.83
1:hA:60:ARG:CZ	1:lO:99:LEU:CD2	2.53	0.83
2:jo:52:GLN:OE1	2:jo:255:ARG:NH2	2.10	0.83
1:jt:99:LEU:CD1	1:mS:60:ARG:CD	2.44	0.83
1:jt:99:LEU:CD2	1:mS:102:GLU:HB3	2.09	0.83
2:jA:197:LYS:NZ	1:mT:99:LEU:HA	1.92	0.83
1:mc:99:LEU:CD2	1:nu:60:ARG:CZ	2.53	0.83
1:mo:102:GLU:CD	1:mu:99:LEU:HD21	2.02	0.83
3:qd:64:GLY:C	4:qn:10:GLN:NE2	2.36	0.83
3:qf:66:GLN:CB	4:ql:8:TYR:O	2.27	0.83
5:qr:229:ILE:CD1	5:qt:232:LEU:HD21	2.08	0.83
6:qw:112:LEU:CD2	6:qy:58:LEU:HD11	1.44	0.83
1:aD:99:LEU:HA	2:ht:197:LYS:NZ	1.92	0.83
1:bE:102:GLU:CD	1:hR:99:LEU:HD21	2.01	0.83
1:bH:99:LEU:HA	2:gq:197:LYS:NZ	1.92	0.83
1:cK:99:LEU:HA	2:iK:197:LYS:NZ	1.92	0.83
2:cP:197:LYS:HE3	1:eV:102:GLU:OE2	1.78	0.83
2:dI:107:GLY:HA2	2:dI:184:TYR:CE1	2.14	0.83
1:dR:102:GLU:OE2	2:oS:197:LYS:HE3	1.78	0.83
1:eB:102:GLU:CD	1:gB:99:LEU:HD21	2.02	0.83
1:eH:102:GLU:OE2	2:gp:197:LYS:HE3	1.79	0.83
2:fl:282:ARG:CZ	2:nA:282:ARG:NH2	2.42	0.83
1:fV:99:LEU:CD2	1:mc:102:GLU:HB3	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fY:102:GLU:HG2	1:mp:99:LEU:HG	1.59	0.83
2:gs:107:GLY:HA2	2:gs:184:TYR:CE1	2.14	0.83
1:gP:102:GLU:OE2	2:ih:197:LYS:HE3	1.78	0.83
2:jk:61:GLY:HA2	1:lo:103:ARG:HD2	1.60	0.83
2:jy:61:GLY:HA2	1:pS:103:ARG:HD2	1.60	0.83
1:jX:103:ARG:HD2	2:lr:61:GLY:HA2	1.60	0.83
2:kP:61:GLY:HA2	1:mU:103:ARG:HD2	1.60	0.83
2:kT:107:GLY:HA2	2:kT:184:TYR:CE1	2.14	0.83
1:kW:102:GLU:CD	1:mW:99:LEU:HD21	2.02	0.83
1:lc:100:LYS:NZ	1:mQ:100:LYS:CG	2.40	0.83
2:lh:107:GLY:HA2	2:lh:184:TYR:CE1	2.14	0.83
2:lG:282:ARG:NH2	2:mY:282:ARG:CZ	2.42	0.83
1:mq:103:ARG:NH1	2:mz:198:GLU:O	2.11	0.83
1:mI:102:GLU:OE2	2:oq:197:LYS:HE3	1.78	0.83
2:mK:282:ARG:NH2	2:oq:282:ARG:CZ	2.42	0.83
2:oq:282:ARG:NH2	2:pW:282:ARG:CZ	2.42	0.83
2:pt:61:GLY:HA2	1:pE:103:ARG:HD2	1.60	0.83
3:qg:67:ARG:CA	4:qk:194:LEU:CD1	2.57	0.83
3:qi:61:ASP:C	4:qo:33:SER:CB	2.51	0.83
5:qz:229:ILE:HD11	5:qB:232:LEU:CD1	2.08	0.83
2:aI:282:ARG:CZ	2:iX:282:ARG:NH2	2.42	0.83
2:aL:107:GLY:HA2	2:aL:184:TYR:CE1	2.14	0.83
2:bk:197:LYS:HE3	1:dp:102:GLU:OE2	1.78	0.83
1:bs:99:LEU:CD2	1:eR:60:ARG:CZ	2.53	0.83
2:bO:107:GLY:HA2	2:bO:184:TYR:CE1	2.14	0.83
1:cw:99:LEU:HA	2:pJ:197:LYS:NZ	1.92	0.83
2:cB:282:ARG:NH2	2:pg:282:ARG:CZ	2.42	0.83
1:eC:99:LEU:HG	1:gO:102:GLU:HG2	1.59	0.83
1:eE:99:LEU:HA	2:fm:197:LYS:NZ	1.92	0.83
1:fH:102:GLU:HB3	1:mq:99:LEU:CD2	2.09	0.83
1:gZ:103:ARG:NH1	2:hi:198:GLU:O	2.11	0.83
2:hi:107:GLY:HA2	2:hi:184:TYR:CE1	2.14	0.83
1:it:102:GLU:OE2	2:jN:197:LYS:HE3	1.78	0.83
1:iV:62:THR:OG1	1:iV:100:LYS:O	1.95	0.83
1:jw:102:GLU:HG2	1:lz:99:LEU:HG	1.59	0.83
1:jV:60:ARG:CZ	1:mS:99:LEU:CD2	2.53	0.83
1:jW:99:LEU:HA	2:mZ:197:LYS:NZ	1.92	0.83
2:kC:282:ARG:CZ	2:kQ:282:ARG:NH2	2.42	0.83
1:kY:99:LEU:CD2	1:oy:102:GLU:HB3	2.09	0.83
1:lA:102:GLU:HB3	1:oy:99:LEU:CD2	2.09	0.83
1:lA:103:ARG:NH1	2:lJ:198:GLU:O	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mc:99:LEU:CD2	1:nu:102:GLU:HB3	2.09	0.83
2:np:107:GLY:HA2	2:np:184:TYR:CE1	2.14	0.83
1:oy:103:ARG:NH1	2:oH:198:GLU:O	2.11	0.83
3:qf:66:GLN:HA	4:ql:8:TYR:O	1.78	0.83
3:qf:68:ALA:CB	4:ql:8:TYR:HH	1.92	0.83
3:qh:64:GLY:C	4:qo:219:ILE:CG2	2.52	0.83
5:qx:229:ILE:HD12	5:qz:232:LEU:HD21	1.59	0.83
5:qD:229:ILE:CD1	5:qF:232:LEU:HD21	2.08	0.83
2:ax:107:GLY:HA2	2:ax:184:TYR:CE1	2.14	0.82
1:bd:99:LEU:HG	1:ji:102:GLU:HG2	1.60	0.82
1:bT:102:GLU:HB3	1:eR:99:LEU:CD2	2.09	0.82
2:bZ:282:ARG:NH2	2:dr:282:ARG:CZ	2.42	0.82
2:cq:107:GLY:HA2	2:cq:184:TYR:CE1	2.14	0.82
1:cJ:99:LEU:CD2	1:po:102:GLU:HB3	2.09	0.82
2:dW:107:GLY:HA2	2:dW:184:TYR:CE1	2.14	0.82
2:eg:61:GLY:HA2	1:er:103:ARG:HD2	1.60	0.82
1:eQ:99:LEU:HG	1:iG:102:GLU:HG2	1.59	0.82
2:fz:282:ARG:NH2	2:nM:282:ARG:CZ	2.42	0.82
2:fA:197:LYS:NZ	1:nX:99:LEU:HA	1.92	0.82
1:fU:99:LEU:HG	1:mt:102:GLU:HG2	1.59	0.82
2:gc:197:LYS:NZ	1:md:99:LEU:HA	1.92	0.82
1:gj:102:GLU:HB3	1:gL:99:LEU:CD2	2.09	0.82
1:it:62:THR:OG1	1:it:100:LYS:O	1.95	0.82
1:js:99:LEU:HG	1:lD:102:GLU:HG2	1.59	0.82
2:jQ:107:GLY:HA2	2:jQ:184:TYR:CE1	2.14	0.82
1:jV:102:GLU:HB3	1:mS:99:LEU:CD2	2.09	0.82
2:kQ:282:ARG:CZ	2:mY:282:ARG:NH2	2.42	0.82
2:mN:107:GLY:HA2	2:mN:184:TYR:CE1	2.14	0.82
2:of:107:GLY:HA2	2:of:184:TYR:CE1	2.14	0.82
4:qn:89:VAL:CG2	4:qo:245:ASP:CB	2.55	0.82
5:qp:394:ILE:HD12	5:qr:405:ILE:CG2	1.88	0.82
5:qr:229:ILE:HD12	5:qt:232:LEU:HD21	1.59	0.82
2:ah:282:ARG:CZ	2:oS:282:ARG:NH2	2.42	0.82
2:aI:282:ARG:NH2	2:kb:282:ARG:CZ	2.42	0.82
2:aV:61:GLY:HA2	1:bg:103:ARG:HD2	1.60	0.82
1:bw:100:LYS:HZ2	1:dj:100:LYS:HG2	1.44	0.82
1:cj:103:ARG:HD2	2:iu:61:GLY:HA2	1.60	0.82
1:cu:99:LEU:HG	1:nL:102:GLU:HG2	1.59	0.82
1:cH:102:GLU:CD	1:cN:99:LEU:HD21	2.01	0.82
2:dT:197:LYS:HE3	1:nM:102:GLU:OE2	1.78	0.82
2:dT:282:ARG:NH2	2:oS:282:ARG:CZ	2.42	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ep:103:ARG:NH1	2:ey:198:GLU:O	2.11	0.82
2:eM:107:GLY:HA2	2:eM:184:TYR:CE1	2.14	0.82
1:fx:62:THR:OG1	1:fx:100:LYS:O	1.95	0.82
1:fF:100:LYS:HG2	1:mg:100:LYS:HZ1	1.41	0.82
1:fT:102:GLU:CD	1:fZ:99:LEU:HD21	2.02	0.82
2:gb:282:ARG:CZ	2:ih:282:ARG:NH2	2.42	0.82
2:gG:107:GLY:HA2	2:gG:184:TYR:CE1	2.14	0.82
1:gN:103:ARG:HD2	2:ig:61:GLY:HA2	1.60	0.82
1:hb:103:ARG:HD2	2:lF:61:GLY:HA2	1.60	0.82
2:iM:107:GLY:HA2	2:iM:184:TYR:CE1	2.14	0.82
2:ke:107:GLY:HA2	2:ke:184:TYR:CE1	2.14	0.82
1:la:103:ARG:HD2	2:mJ:61:GLY:HA2	1.60	0.82
2:mw:282:ARG:CZ	2:oE:282:ARG:NH2	2.42	0.82
2:nD:107:GLY:HA2	2:nD:184:TYR:CE1	2.14	0.82
1:nI:99:LEU:CD2	1:pa:102:GLU:HB3	2.09	0.82
2:ot:52:GLN:OE1	2:ot:255:ARG:NH2	2.10	0.82
2:ah:197:LYS:HE3	1:oQ:102:GLU:OE2	1.78	0.82
2:aI:197:LYS:HE3	1:iV:102:GLU:OE2	1.78	0.82
2:aZ:107:GLY:HA2	2:aZ:184:TYR:CE1	2.14	0.82
1:be:102:GLU:HB3	1:kj:99:LEU:CD2	2.09	0.82
1:bS:99:LEU:HG	1:hQ:102:GLU:HG2	1.59	0.82
1:cv:102:GLU:HB3	1:pC:99:LEU:CD2	2.09	0.82
2:cB:197:LYS:HE3	1:cN:102:GLU:OE2	1.78	0.82
2:cE:107:GLY:HA2	2:cE:184:TYR:CE1	2.14	0.82
1:cX:99:LEU:CD2	1:gx:102:GLU:HB3	2.09	0.82
1:db:62:THR:OG1	1:db:100:LYS:O	1.95	0.82
2:dS:61:GLY:HA2	1:nK:103:ARG:HD2	1.60	0.82
1:ed:103:ARG:HD2	2:nz:61:GLY:HA2	1.60	0.82
2:ey:107:GLY:HA2	2:ey:184:TYR:CE1	2.14	0.82
1:eD:99:LEU:CD2	1:ib:102:GLU:HB3	2.09	0.82
2:fQ:107:GLY:HA2	2:fQ:184:TYR:CE1	2.14	0.82
1:gA:102:GLU:HG2	1:oZ:99:LEU:HG	1.59	0.82
2:gU:107:GLY:HA2	2:gU:184:TYR:CE1	2.14	0.82
1:hd:99:LEU:HD21	1:lM:102:GLU:CD	2.02	0.82
2:hg:36:THR:O	2:hg:175:THR:OG1	1.98	0.82
2:iw:60:ILE:HG22	1:jI:105:THR:HG21	1.57	0.82
2:iy:107:GLY:HA2	2:iy:184:TYR:CE1	2.14	0.82
1:kW:100:LYS:CG	1:mW:100:LYS:NZ	2.40	0.82
1:lc:102:GLU:OE2	2:mK:197:LYS:HE3	1.78	0.82
2:IV:36:THR:O	2:IV:175:THR:OG1	1.98	0.82
2:mz:107:GLY:HA2	2:mz:184:TYR:CE1	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mZ:36:THR:O	2:mZ:175:THR:OG1	1.98	0.82
1:ni:103:ARG:HD2	2:oD:61:GLY:HA2	1.60	0.82
2:pj:107:GLY:HA2	2:pj:184:TYR:CE1	2.14	0.82
1:pA:102:GLU:CD	1:pG:99:LEU:HD21	2.01	0.82
3:qf:67:ARG:HB3	4:ql:194:LEU:CD1	2.09	0.82
3:qh:68:ALA:CB	4:qj:8:TYR:HH	1.91	0.82
5:qD:229:ILE:HD12	5:qF:232:LEU:HD21	1.59	0.82
6:qG:109:SER:OG	6:qI:53:HIS:CD2	2.29	0.82
6:qI:109:SER:OG	6:qK:53:HIS:CD2	2.29	0.82
2:ah:282:ARG:NH2	2:oc:282:ARG:CZ	2.42	0.82
2:ai:36:THR:O	2:ai:175:THR:OG1	1.98	0.82
2:av:60:ILE:HG22	1:bH:105:THR:HG21	1.57	0.82
1:aF:102:GLU:HG2	1:mR:99:LEU:HG	1.59	0.82
1:aT:102:GLU:HG2	1:pn:99:LEU:HG	1.59	0.82
2:bQ:93:ASP:HA	5:qp:47:ARG:NH2	1.95	0.82
2:bZ:197:LYS:HE3	1:iH:102:GLU:OE2	1.78	0.82
2:cc:107:GLY:HA2	2:cc:184:TYR:CE1	2.14	0.82
2:cn:197:LYS:HE3	1:ps:102:GLU:OE2	1.78	0.82
2:dF:282:ARG:NH2	2:eX:282:ARG:CZ	2.42	0.82
2:dF:282:ARG:CZ	2:pg:282:ARG:NH2	2.42	0.82
2:eJ:282:ARG:NH2	2:gp:282:ARG:CZ	2.42	0.82
1:fh:103:ARG:HD2	2:gC:61:GLY:HA2	1.60	0.82
2:fo:107:GLY:HA2	2:fo:184:TYR:CE1	2.14	0.82
2:gR:282:ARG:NH2	2:ih:282:ARG:CZ	2.42	0.82
1:gZ:99:LEU:CD2	1:mq:102:GLU:HB3	2.09	0.82
2:hf:282:ARG:NH2	2:lG:282:ARG:CZ	2.42	0.82
1:hl:102:GLU:CD	1:kA:99:LEU:HD21	2.01	0.82
2:ht:36:THR:O	2:ht:175:THR:OG1	1.98	0.82
2:iX:197:LYS:HE3	1:jj:102:GLU:OE2	1.78	0.82
1:jt:102:GLU:HB3	1:jV:99:LEU:CD2	2.09	0.82
1:jY:102:GLU:HG2	1:pP:99:LEU:HG	1.59	0.82
1:lc:100:LYS:HZ3	1:mQ:100:LYS:CG	1.83	0.82
1:lS:62:THR:OG1	1:lS:100:LYS:O	1.95	0.82
2:lX:107:GLY:HA2	2:lX:184:TYR:CE1	2.14	0.82
1:mu:62:THR:OG1	1:mu:100:LYS:O	1.95	0.82
2:mL:36:THR:O	2:mL:175:THR:OG1	1.98	0.82
2:nb:107:GLY:HA2	2:nb:184:TYR:CE1	2.14	0.82
2:ph:36:THR:O	2:ph:175:THR:OG1	1.98	0.82
2:pL:107:GLY:HA2	2:pL:184:TYR:CE1	2.14	0.82
1:pU:62:THR:OG1	1:pU:100:LYS:O	1.95	0.82
5:qJ:229:ILE:CD1	5:qL:232:LEU:HD21	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ab:102:GLU:HB3	1:mE:99:LEU:CD2	2.09	0.82
1:ap:102:GLU:HB3	1:dl:99:LEU:CD2	2.09	0.82
1:aP:99:LEU:HG	1:pr:102:GLU:HG2	1.60	0.82
1:aQ:102:GLU:HB3	1:jf:99:LEU:CD2	2.09	0.82
1:aR:99:LEU:HA	2:jm:197:LYS:NZ	1.92	0.82
2:aZ:52:GLN:OE1	2:aZ:255:ARG:NH2	2.10	0.82
2:bn:107:GLY:HA2	2:bn:184:TYR:CE1	2.14	0.82
1:bt:105:THR:HG21	2:hU:60:ILE:HG22	1.57	0.82
2:by:197:LYS:HE3	1:hR:102:GLU:OE2	1.78	0.82
2:by:282:ARG:NH2	2:dd:282:ARG:CZ	2.42	0.82
1:bE:100:LYS:CG	1:hR:100:LYS:NZ	2.40	0.82
2:bY:61:GLY:HA2	1:iF:103:ARG:HD2	1.60	0.82
1:dz:102:GLU:CB	1:gx:99:LEU:HD22	1.98	0.82
1:ep:99:LEU:CD2	1:nI:102:GLU:HB3	2.09	0.82
2:ev:282:ARG:CZ	2:gD:282:ARG:NH2	2.42	0.82
1:eD:102:GLU:HB3	1:ff:99:LEU:CD2	2.09	0.82
1:fJ:103:ARG:HD2	2:IT:61:GLY:HA2	1.60	0.82
2:fN:282:ARG:CZ	2:gb:282:ARG:NH2	2.42	0.82
2:fO:36:THR:O	2:fO:175:THR:OG1	1.98	0.82
2:gE:36:THR:O	2:gE:175:THR:OG1	1.98	0.82
1:hA:102:GLU:HB3	1:IO:99:LEU:CD2	2.09	0.82
2:ja:107:GLY:HA2	2:ja:184:TYR:CE1	2.14	0.82
2:IH:36:THR:O	2:IH:175:THR:OG1	1.98	0.82
1:nk:102:GLU:OE2	2:oE:197:LYS:HE3	1.78	0.82
2:nB:36:THR:O	2:nB:175:THR:OG1	1.98	0.82
2:od:36:THR:O	2:od:175:THR:OG1	1.98	0.82
2:oH:107:GLY:HA2	2:oH:184:TYR:CE1	2.14	0.82
3:qh:68:ALA:HB1	4:qo:222:GLY:C	2.03	0.82
1:ap:99:LEU:CD2	1:hN:102:GLU:HB3	2.09	0.82
1:aD:103:ARG:CZ	2:iY:61:GLY:HA2	2.10	0.82
1:bK:100:LYS:NZ	1:hL:100:LYS:CG	2.40	0.82
1:bX:102:GLU:OE2	2:dr:197:LYS:HE3	1.78	0.82
2:cm:61:GLY:HA2	1:pq:103:ARG:HD2	1.60	0.82
2:cS:107:GLY:HA2	2:cS:184:TYR:CE1	2.14	0.82
1:dz:102:GLU:HB3	1:gx:99:LEU:CD2	2.09	0.82
1:dD:99:LEU:HD21	1:fd:102:GLU:CD	2.02	0.82
2:fN:282:ARG:NH2	2:IU:282:ARG:CZ	2.42	0.82
2:gc:36:THR:O	2:gc:175:THR:OG1	1.98	0.82
1:gj:60:ARG:NH2	1:gL:99:LEU:HD11	1.88	0.82
1:gP:100:LYS:NZ	1:in:100:LYS:CG	2.40	0.82
2:hF:282:ARG:CZ	2:kC:282:ARG:NH2	2.42	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hn:102:GLU:HB3	1:kK:99:LEU:CD2	2.09	0.82
2:hI:107:GLY:HA2	2:hI:184:TYR:CE1	2.14	0.82
1:jd:100:LYS:CG	1:jj:100:LYS:NZ	2.40	0.82
1:lm:102:GLU:HB3	1:pQ:99:LEU:CD2	2.09	0.82
2:nP:36:THR:O	2:nP:175:THR:OG1	1.98	0.82
2:px:107:GLY:HA2	2:px:184:TYR:CE1	2.14	0.82
2:pZ:107:GLY:HA2	2:pZ:184:TYR:CE1	2.14	0.82
1:an:102:GLU:CD	1:oQ:99:LEU:HD21	2.02	0.82
1:aR:105:THR:HG21	2:bl:60:ILE:HG22	1.57	0.82
1:aU:102:GLU:OE2	2:iJ:197:LYS:HE3	1.79	0.82
1:bq:102:GLU:CD	1:dp:99:LEU:HD21	2.01	0.82
2:bB:107:GLY:HA2	2:bB:184:TYR:CE1	2.14	0.82
1:bU:103:ARG:CZ	2:iK:61:GLY:HA2	2.10	0.82
1:cf:102:GLU:CD	1:iH:99:LEU:HD21	2.01	0.82
1:cH:100:LYS:CG	1:cN:100:LYS:NZ	2.40	0.82
2:eh:197:LYS:HE3	1:et:102:GLU:OE2	1.78	0.82
2:eK:61:GLY:HA2	1:gk:103:ARG:CZ	2.10	0.82
1:fv:103:ARG:HD2	2:nl:61:GLY:HA2	1.60	0.82
1:hp:103:ARG:HD2	2:ko:61:GLY:HA2	1.60	0.82
2:hv:107:GLY:HA2	2:hv:184:TYR:CE1	2.14	0.82
2:hW:107:GLY:HA2	2:hW:184:TYR:CE1	2.14	0.82
1:io:99:LEU:HG	1:on:102:GLU:HG2	1.59	0.82
2:iW:61:GLY:HA2	1:jh:103:ARG:HD2	1.60	0.82
2:jl:282:ARG:CZ	2:ls:282:ARG:NH2	2.42	0.82
2:le:282:ARG:NH2	2:mK:282:ARG:CZ	2.42	0.82
1:lE:102:GLU:OE2	2:mY:197:LYS:HE3	1.78	0.82
6:qy:109:SER:OG	6:qA:53:HIS:CD2	2.29	0.82
1:ae:102:GLU:HG2	1:fs:99:LEU:HG	1.59	0.82
2:ak:107:GLY:HA2	2:ak:184:TYR:CE1	2.14	0.82
1:as:102:GLU:HG2	1:gi:99:LEU:HG	1.59	0.82
1:aE:103:ARG:HD2	2:ka:61:GLY:HA2	1.60	0.82
1:bT:60:ARG:CZ	1:eR:99:LEU:CD2	2.53	0.82
1:ck:102:GLU:HG2	1:ll:99:LEU:HG	1.59	0.82
1:cV:100:LYS:CG	1:eV:100:LYS:NZ	2.40	0.82
1:do:102:GLU:HG2	1:ki:99:LEU:HG	1.59	0.82
2:du:107:GLY:HA2	2:du:184:TYR:CE1	2.14	0.82
1:fj:100:LYS:NZ	1:gJ:100:LYS:CG	2.40	0.82
2:fA:36:THR:O	2:fA:175:THR:OG1	1.98	0.82
1:fl:103:ARG:CZ	2:gc:61:GLY:HA2	2.10	0.82
2:ge:107:GLY:HA2	2:ge:184:TYR:CE1	2.14	0.82
1:gn:102:GLU:OE2	2:hT:197:LYS:HE3	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gR:282:ARG:CZ	2:lU:282:ARG:NH2	2.42	0.82
1:hd:102:GLU:OE2	2:lG:197:LYS:HE3	1.79	0.82
2:hf:197:LYS:HE3	1:kA:102:GLU:OE2	1.78	0.82
1:hr:100:LYS:HZ3	1:ku:100:LYS:CG	1.92	0.82
2:kp:36:THR:O	2:kp:175:THR:OG1	1.98	0.82
2:kR:36:THR:O	2:kR:175:THR:OG1	1.98	0.82
2:lf:61:GLY:HA2	1:mF:103:ARG:CZ	2.10	0.82
2:mi:282:ARG:CZ	2:mw:282:ARG:NH2	2.42	0.82
2:nR:107:GLY:HA2	2:nR:184:TYR:CE1	2.14	0.82
1:om:103:ARG:HD2	2:pV:61:GLY:HA2	1.60	0.82
1:oo:102:GLU:OE2	2:pW:197:LYS:HE3	1.78	0.82
2:oT:36:THR:O	2:oT:175:THR:OG1	1.98	0.82
3:qd:65:GLY:C	4:qn:10:GLN:HG2	2.05	0.82
5:qF:229:ILE:HD11	5:qH:232:LEU:CD1	2.08	0.82
1:bV:103:ARG:HD2	2:dq:61:GLY:HA2	1.60	0.82
1:ch:99:LEU:CD2	1:jf:60:ARG:CZ	2.53	0.82
2:cB:282:ARG:CZ	2:cP:282:ARG:NH2	2.42	0.82
1:cV:102:GLU:CD	1:eV:99:LEU:HD21	2.02	0.82
1:cX:102:GLU:HB3	1:dz:99:LEU:CD2	2.09	0.82
1:da:102:GLU:HG2	1:fe:99:LEU:HG	1.59	0.82
1:dk:99:LEU:HG	1:km:102:GLU:HG2	1.59	0.82
2:eh:282:ARG:CZ	2:ev:282:ARG:NH2	2.42	0.82
1:eF:103:ARG:HD2	2:go:61:GLY:HA2	1.60	0.82
1:ft:99:LEU:CD2	1:nW:102:GLU:HB3	2.09	0.82
1:fx:102:GLU:OE2	2:nm:197:LYS:HE3	1.78	0.82
1:fK:102:GLU:HG2	1:kv:99:LEU:HG	1.59	0.82
1:gM:105:THR:HG21	2:lV:60:ILE:HG22	1.57	0.82
2:hG:36:THR:O	2:hG:175:THR:OG1	1.98	0.82
1:ir:103:ARG:HD2	2:jM:61:GLY:HA2	1.60	0.82
1:iD:102:GLU:HB3	1:po:99:LEU:CD2	2.09	0.82
1:jg:103:ARG:CZ	2:lt:61:GLY:HA2	2.10	0.82
1:jL:102:GLU:OE2	2:pI:197:LYS:HE3	1.78	0.82
2:jN:282:ARG:NH2	2:pI:282:ARG:CZ	2.42	0.82
2:mh:61:GLY:HA2	1:ms:103:ARG:HD2	1.60	0.82
1:mo:100:LYS:CG	1:mu:100:LYS:NZ	2.40	0.82
1:mE:102:GLU:HB3	1:ng:99:LEU:CD2	2.09	0.82
2:mL:60:ILE:HG22	1:ol:105:THR:HG21	1.57	0.82
2:oV:107:GLY:HA2	2:oV:184:TYR:CE1	2.14	0.82
3:qd:68:ALA:HB2	4:qm:222:GLY:O	1.80	0.82
5:qr:392:LEU:HD13	5:qt:400:TYR:CZ	2.12	0.82
1:bf:99:LEU:C	2:kp:197:LYS:HZ1	1.87	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bf:103:ARG:CZ	2:ds:61:GLY:HA2	2.10	0.82
2:bl:36:THR:O	2:bl:175:THR:OG1	1.98	0.82
1:bt:103:ARG:CZ	2:hU:61:GLY:HA2	2.10	0.82
2:co:61:GLY:HA2	1:iq:103:ARG:CZ	2.10	0.82
1:cw:105:THR:HG21	2:cQ:60:ILE:HG22	1.57	0.82
2:cC:61:GLY:HA2	1:pb:103:ARG:CZ	2.10	0.82
2:cO:61:GLY:HA2	1:eT:103:ARG:HD2	1.60	0.82
1:dA:103:ARG:CZ	2:ph:61:GLY:HA2	2.10	0.82
1:dR:99:LEU:HD21	1:oY:102:GLU:CD	2.02	0.82
1:eB:100:LYS:CG	1:gB:100:LYS:NZ	2.40	0.82
2:fC:107:GLY:HA2	2:fC:184:TYR:CE1	2.14	0.82
2:fN:197:LYS:HE3	1:fZ:102:GLU:OE2	1.78	0.82
1:gl:103:ARG:HD2	2:hS:61:GLY:HA2	1.60	0.82
2:gS:61:GLY:HA2	1:ic:103:ARG:CZ	2.10	0.82
2:ik:107:GLY:HA2	2:ik:184:TYR:CE1	2.14	0.82
1:kY:60:ARG:CZ	1:lA:99:LEU:CD2	2.53	0.82
2:lv:107:GLY:HA2	2:lv:184:TYR:CE1	2.14	0.82
1:md:103:ARG:CZ	2:mx:61:GLY:HA2	2.10	0.82
2:ot:107:GLY:HA2	2:ot:184:TYR:CE1	2.14	0.82
3:qg:68:ALA:HB2	4:qj:222:GLY:O	1.78	0.82
3:qh:63:GLN:NE2	4:qo:221:ASP:OD1	1.98	0.82
1:aq:105:THR:HG21	2:kp:60:ILE:HG22	1.57	0.81
2:aX:36:THR:O	2:aX:175:THR:OG1	1.98	0.81
2:bM:36:THR:O	2:bM:175:THR:OG1	1.98	0.81
1:cy:102:GLU:HG2	1:nH:99:LEU:HG	1.59	0.81
2:dF:197:LYS:HE3	1:pe:102:GLU:OE2	1.78	0.81
2:dG:36:THR:O	2:dG:175:THR:OG1	1.98	0.81
2:dG:61:GLY:HA2	1:eS:103:ARG:CZ	2.10	0.81
1:ec:103:ARG:CZ	2:ew:61:GLY:HA2	2.10	0.81
1:ef:99:LEU:HD21	1:nG:102:GLU:CD	2.02	0.81
2:eu:61:GLY:HA2	1:gZ:103:ARG:HD2	1.60	0.81
1:fg:103:ARG:CZ	2:nB:61:GLY:HA2	2.10	0.81
2:fz:282:ARG:CZ	2:mi:282:ARG:NH2	2.42	0.81
1:fV:102:GLU:HB3	1:nu:99:LEU:CD2	2.09	0.81
2:gq:36:THR:O	2:gq:175:THR:OG1	1.98	0.81
2:gR:197:LYS:HE3	1:lS:102:GLU:OE2	1.78	0.81
1:it:100:LYS:HZ1	1:jT:100:LYS:HG2	1.42	0.81
2:kr:107:GLY:HA2	2:kr:184:TYR:CE1	2.14	0.81
1:kx:103:ARG:CZ	2:kR:61:GLY:HA2	2.10	0.81
2:kB:61:GLY:HA2	1:kM:103:ARG:HD2	1.60	0.81
2:kC:197:LYS:HE3	1:kO:102:GLU:OE2	1.78	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mr:103:ARG:CZ	2:oF:61:GLY:HA2	2.10	0.81
3:qe:66:GLN:HA	4:qm:8:TYR:O	1.80	0.81
3:qi:66:GLN:HA	4:qo:8:TYR:HD2	1.44	0.81
5:qr:229:ILE:HD11	5:qt:232:LEU:CD1	2.08	0.81
5:qB:392:LEU:CD1	5:qD:400:TYR:CE1	2.49	0.81
1:ac:103:ARG:CZ	2:oT:61:GLY:HA2	2.10	0.81
2:bk:282:ARG:CZ	2:dr:282:ARG:NH2	2.42	0.81
2:by:282:ARG:CZ	2:hT:282:ARG:NH2	2.42	0.81
2:dd:282:ARG:NH2	2:eJ:282:ARG:CZ	2.42	0.81
1:fu:103:ARG:CZ	2:mj:61:GLY:HA2	2.10	0.81
2:jz:197:LYS:HE3	1:pU:102:GLU:OE2	1.78	0.81
1:jH:102:GLU:CB	1:ok:99:LEU:HD22	1.98	0.81
2:kF:107:GLY:HA2	2:kF:184:TYR:CE1	2.14	0.81
1:kL:103:ARG:CZ	2:mZ:61:GLY:HA2	2.10	0.81
2:pu:282:ARG:CZ	2:pI:282:ARG:NH2	2.42	0.81
2:pJ:36:THR:O	2:pJ:175:THR:OG1	1.98	0.81
5:qD:392:LEU:HD13	5:qF:400:TYR:CZ	2.12	0.81
5:qJ:229:ILE:HD12	5:qL:232:LEU:HD21	1.59	0.81
1:af:99:LEU:HD21	1:oi:102:GLU:CD	2.01	0.81
2:ag:36:THR:O	2:ag:175:THR:OG1	1.99	0.81
2:ai:61:GLY:HA2	1:nX:103:ARG:CZ	2.10	0.81
1:an:100:LYS:CG	1:oQ:100:LYS:NZ	2.40	0.81
1:aC:99:LEU:HD22	1:kK:102:GLU:CB	1.98	0.81
1:aG:99:LEU:HD21	1:kh:102:GLU:CD	2.01	0.81
1:aQ:99:LEU:CD2	1:ch:102:GLU:HB3	2.09	0.81
2:aW:282:ARG:NH2	2:iJ:282:ARG:CZ	2.42	0.81
2:aW:282:ARG:CZ	2:bk:282:ARG:NH2	2.42	0.81
1:bw:102:GLU:OE2	2:dd:197:LYS:HE3	1.78	0.81
2:bM:61:GLY:HA2	1:hB:103:ARG:CZ	2.10	0.81
2:cm:36:THR:O	2:cm:175:THR:OG1	1.99	0.81
1:cv:99:LEU:CD2	1:dN:102:GLU:HB3	2.09	0.81
2:cA:61:GLY:HA2	1:cL:103:ARG:HD2	1.60	0.81
2:cC:60:ILE:HG22	1:pb:105:THR:HG21	1.57	0.81
2:cP:282:ARG:CZ	2:eX:282:ARG:NH2	2.42	0.81
2:cQ:36:THR:O	2:cQ:175:THR:OG1	1.98	0.81
2:cR:197:LYS:CD	1:eU:99:LEU:O	2.29	0.81
2:ei:61:GLY:HA2	1:nv:103:ARG:CZ	2.10	0.81
2:ek:107:GLY:HA2	2:ek:184:TYR:CE1	2.14	0.81
1:eH:100:LYS:NZ	1:gv:100:LYS:CG	2.40	0.81
1:fF:102:GLU:CD	1:mg:99:LEU:HD21	2.01	0.81
2:fO:61:GLY:HA2	1:IP:103:ARG:CZ	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fV:99:LEU:CD1	1:mc:60:ARG:CD	2.44	0.81
1:fW:103:ARG:CZ	2:ii:61:GLY:HA2	2.10	0.81
2:gq:60:ILE:HG22	1:hO:105:THR:HG21	1.57	0.81
2:gQ:61:GLY:HA2	1:lQ:103:ARG:HD2	1.60	0.81
2:ht:61:GLY:HA2	1:kk:103:ARG:CZ	2.10	0.81
1:hA:99:LEU:CD2	1:kw:102:GLU:HB3	2.09	0.81
2:iv:282:ARG:NH2	2:jN:282:ARG:CZ	2.42	0.81
2:iw:36:THR:O	2:iw:175:THR:OG1	1.98	0.81
2:jl:197:LYS:HE3	1:lq:102:GLU:OE2	1.78	0.81
2:jm:36:THR:O	2:jm:175:THR:OG1	1.98	0.81
1:jx:102:GLU:OE2	2:le:197:LYS:HE3	1.78	0.81
2:jz:282:ARG:NH2	2:le:282:ARG:CZ	2.42	0.81
2:jz:282:ARG:CZ	2:pW:282:ARG:NH2	2.42	0.81
2:jA:36:THR:O	2:jA:175:THR:OG1	1.98	0.81
1:jH:99:LEU:CD2	1:oM:102:GLU:HB3	2.09	0.81
1:jU:99:LEU:HG	1:pT:102:GLU:HG2	1.60	0.81
2:kc:36:THR:O	2:kc:175:THR:OG1	1.98	0.81
2:kD:36:THR:O	2:kD:175:THR:OG1	1.98	0.81
2:lJ:107:GLY:HA2	2:lJ:184:TYR:CE1	2.14	0.81
2:mi:197:LYS:HE3	1:mu:102:GLU:OE2	1.78	0.81
2:mj:36:THR:O	2:mj:175:THR:OG1	1.98	0.81
2:ml:107:GLY:HA2	2:ml:184:TYR:CE1	2.14	0.81
1:mG:103:ARG:HD2	2:op:61:GLY:HA2	1.60	0.81
2:nl:36:THR:O	2:nl:175:THR:OG1	1.99	0.81
2:nm:282:ARG:NH2	2:oe:282:ARG:CZ	2.42	0.81
2:pf:36:THR:O	2:pf:175:THR:OG1	1.99	0.81
3:qe:64:GLY:C	4:ql:219:ILE:CG2	2.54	0.81
3:qh:67:ARG:H	4:qj:194:LEU:HD12	1.01	0.81
4:qk:116:PHE:CD1	4:ql:202:ILE:CD1	2.64	0.81
4:qn:116:PHE:CD1	4:qo:202:ILE:CD1	2.64	0.81
6:qu:112:LEU:CD2	6:qw:58:LEU:HD11	1.44	0.81
1:aT:99:LEU:O	2:iL:197:LYS:CD	2.29	0.81
1:aU:100:LYS:NZ	1:iP:100:LYS:CG	2.40	0.81
2:bz:61:GLY:HA2	1:cY:103:ARG:CZ	2.10	0.81
1:bK:70:GLY:CA	6:qw:116:GLY:HA2	2.09	0.81
2:ca:36:THR:O	2:ca:175:THR:OG1	1.98	0.81
1:cv:60:ARG:CD	1:pC:99:LEU:CD1	2.44	0.81
2:dg:107:GLY:HA2	2:dg:184:TYR:CE1	2.14	0.81
2:ej:197:LYS:CD	1:es:99:LEU:O	2.29	0.81
2:eI:36:THR:O	2:eI:175:THR:OG1	1.99	0.81
2:fa:107:GLY:HA2	2:fa:184:TYR:CE1	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fk:36:THR:O	2:fk:175:THR:OG1	1.99	0.81
1:fr:102:GLU:CD	1:ny:99:LEU:HD21	2.01	0.81
1:fV:60:ARG:CD	1:nu:99:LEU:CD1	2.44	0.81
1:hr:100:LYS:NZ	1:ku:100:LYS:CG	2.40	0.81
2:hs:181:PRO:CB	5:qB:58:GLN:OE1	2.28	0.81
2:hu:197:LYS:CD	1:hD:99:LEU:O	2.29	0.81
2:hX:189:LYS:HE3	5:qx:51:GLU:HG2	1.62	0.81
2:ik:52:GLN:NE2	2:ik:252:ASP:O	2.14	0.81
2:iw:61:GLY:HA2	1:jI:103:ARG:CZ	2.10	0.81
2:jo:107:GLY:HA2	2:jo:184:TYR:CE1	2.14	0.81
1:jw:99:LEU:O	2:lg:197:LYS:CD	2.29	0.81
2:jO:61:GLY:HA2	1:pD:103:ARG:CZ	2.10	0.81
2:kb:282:ARG:NH2	2:ls:282:ARG:CZ	2.42	0.81
2:kE:197:LYS:CD	1:kN:99:LEU:O	2.29	0.81
2:kT:52:GLN:NE2	2:kT:252:ASP:O	2.14	0.81
1:kY:102:GLU:HB3	1:lA:99:LEU:CD2	2.09	0.81
1:lC:103:ARG:HD2	2:mX:61:GLY:HA2	1.60	0.81
2:lX:52:GLN:NE2	2:lX:252:ASP:O	2.14	0.81
2:mx:36:THR:O	2:mx:175:THR:OG1	1.98	0.81
2:nn:61:GLY:HA2	1:oz:103:ARG:CZ	2.10	0.81
1:oo:100:LYS:NZ	1:qc:100:LYS:CG	2.40	0.81
2:or:61:GLY:HA2	1:pR:103:ARG:CZ	2.10	0.81
2:oF:36:THR:O	2:oF:175:THR:OG1	1.98	0.81
3:qg:63:GLN:NE2	4:qj:221:ASP:OD1	1.99	0.81
5:qv:392:LEU:HD13	5:qx:400:TYR:CZ	2.12	0.81
1:aF:99:LEU:O	2:kd:197:LYS:CD	2.29	0.81
2:aJ:36:THR:O	2:aJ:175:THR:OG1	1.98	0.81
2:aL:52:GLN:NE2	2:aL:252:ASP:O	2.14	0.81
2:aY:197:LYS:CD	1:bh:99:LEU:O	2.29	0.81
2:bj:36:THR:O	2:bj:175:THR:OG1	1.99	0.81
1:bw:100:LYS:NZ	1:dj:100:LYS:CG	2.40	0.81
2:cC:36:THR:O	2:cC:175:THR:OG1	1.98	0.81
1:cK:103:ARG:CZ	2:eY:61:GLY:HA2	2.10	0.81
2:dV:197:LYS:CD	1:nL:99:LEU:O	2.29	0.81
1:eq:103:ARG:CZ	2:gE:61:GLY:HA2	2.10	0.81
1:fj:102:GLU:OE2	2:gD:197:LYS:HE3	1.78	0.81
2:fm:36:THR:O	2:fm:175:THR:OG1	1.98	0.81
2:fP:197:LYS:CD	1:fY:99:LEU:O	2.29	0.81
2:ge:52:GLN:NE2	2:ge:252:ASP:O	2.14	0.81
2:gT:197:LYS:CD	1:lR:99:LEU:O	2.29	0.81
1:ha:103:ARG:CZ	2:kD:61:GLY:HA2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jd:102:GLU:CD	1:jj:99:LEU:HD21	2.01	0.81
1:jL:99:LEU:HD21	1:pO:102:GLU:CD	2.01	0.81
2:jQ:52:GLN:NE2	2:jQ:252:ASP:O	2.14	0.81
2:kc:61:GLY:HA2	1:ln:103:ARG:CZ	2.10	0.81
2:kF:52:GLN:NE2	2:kF:252:ASP:O	2.14	0.81
2:mN:52:GLN:NE2	2:mN:252:ASP:O	2.14	0.81
2:nb:52:GLN:NE2	2:nb:252:ASP:O	2.14	0.81
2:pj:52:GLN:NE2	2:pj:252:ASP:O	2.14	0.81
1:pp:103:ARG:CZ	2:pJ:61:GLY:HA2	2.10	0.81
2:pv:36:THR:O	2:pv:175:THR:OG1	1.98	0.81
3:qd:55:GLU:CG	4:qn:223:ASN:ND2	2.43	0.81
3:qf:66:GLN:O	4:ql:10:GLN:CG	2.28	0.81
1:aQ:102:GLU:CB	1:jf:99:LEU:HD22	1.98	0.81
1:bc:102:GLU:CD	1:bi:99:LEU:HD21	2.01	0.81
1:be:60:ARG:CD	1:kj:99:LEU:CD1	2.44	0.81
2:bB:52:GLN:NE2	2:bB:252:ASP:O	2.14	0.81
2:ca:61:GLY:HA2	1:dm:103:ARG:CZ	2.10	0.81
2:cb:197:LYS:CD	1:iG:99:LEU:O	2.29	0.81
1:cl:99:LEU:HD21	1:iB:102:GLU:CD	2.02	0.81
2:dI:52:GLN:NE2	2:dI:252:ASP:O	2.14	0.81
1:ft:99:LEU:CD2	1:nW:60:ARG:CZ	2.53	0.81
1:fL:99:LEU:HD21	1:ma:102:GLU:CD	2.01	0.81
2:ga:36:THR:O	2:ga:175:THR:OG1	1.99	0.81
2:ig:36:THR:O	2:ig:175:THR:OG1	1.99	0.81
2:jo:52:GLN:NE2	2:jo:252:ASP:O	2.14	0.81
2:np:52:GLN:NE2	2:np:252:ASP:O	2.14	0.81
3:qi:55:GLU:CB	4:qo:223:ASN:HD22	1.94	0.81
2:aJ:61:GLY:HA2	1:jW:103:ARG:CZ	2.10	0.81
2:aZ:52:GLN:NE2	2:aZ:252:ASP:O	2.14	0.81
2:bY:36:THR:O	2:bY:175:THR:OG1	1.99	0.81
1:ci:103:ARG:CZ	2:pv:61:GLY:HA2	2.10	0.81
2:cn:282:ARG:CZ	2:pu:282:ARG:NH2	2.42	0.81
2:cp:197:LYS:CD	1:pr:99:LEU:O	2.29	0.81
1:cw:103:ARG:CZ	2:cQ:61:GLY:HA2	2.10	0.81
2:de:61:GLY:HA2	1:eE:103:ARG:CZ	2.10	0.81
2:dg:52:GLN:NE2	2:dg:252:ASP:O	2.14	0.81
1:dO:103:ARG:CZ	2:nP:61:GLY:HA2	2.10	0.81
2:dT:282:ARG:CZ	2:nO:282:ARG:NH2	2.42	0.81
2:eY:36:THR:O	2:eY:175:THR:OG1	1.98	0.81
2:gq:61:GLY:HA2	1:hO:103:ARG:CZ	2.10	0.81
1:gM:103:ARG:CZ	2:IV:61:GLY:HA2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hI:52:GLN:NE2	2:hI:252:ASP:O	2.14	0.81
2:hU:36:THR:O	2:hU:175:THR:OG1	1.98	0.81
2:jn:197:LYS:CD	1:lp:99:LEU:O	2.29	0.81
2:jA:61:GLY:HA2	1:kZ:103:ARG:CZ	2.10	0.81
2:jC:107:GLY:HA2	2:jC:184:TYR:CE1	2.14	0.81
1:jK:99:LEU:O	2:pK:197:LYS:CD	2.29	0.81
1:kw:99:LEU:HD22	1:lO:102:GLU:CB	1.98	0.81
2:kP:36:THR:O	2:kP:175:THR:OG1	1.99	0.81
2:kS:197:LYS:CD	1:mV:99:LEU:O	2.29	0.81
2:lJ:52:GLN:NE2	2:lJ:252:ASP:O	2.14	0.81
2:mv:61:GLY:HA2	1:oA:103:ARG:HD2	1.60	0.81
1:nk:100:LYS:NZ	1:oK:100:LYS:CG	2.40	0.81
4:qj:202:ILE:CD1	4:qo:116:PHE:CD1	2.63	0.81
4:ql:116:PHE:CD1	4:qm:202:ILE:CD1	2.64	0.81
6:qC:112:LEU:CD2	6:qE:58:LEU:HD11	1.44	0.81
1:ab:99:LEU:CD2	1:ng:102:GLU:HB3	2.09	0.81
2:aX:61:GLY:HA2	1:iE:103:ARG:CZ	2.10	0.81
1:be:99:LEU:CD2	1:iR:60:ARG:CZ	2.53	0.81
1:br:99:LEU:HG	1:dC:102:GLU:HG2	1.59	0.81
2:bA:197:LYS:CD	1:hQ:99:LEU:O	2.29	0.81
2:cc:52:GLN:NE2	2:cc:252:ASP:O	2.14	0.81
2:dc:36:THR:O	2:dc:175:THR:OG1	1.99	0.81
2:eM:52:GLN:NE2	2:eM:252:ASP:O	2.14	0.81
2:fA:61:GLY:HA2	1:nh:103:ARG:CZ	2.10	0.81
2:fC:52:GLN:NE2	2:fC:252:ASP:O	2.14	0.81
2:fQ:52:GLN:NE2	2:fQ:252:ASP:O	2.14	0.81
2:gs:52:GLN:NE2	2:gs:252:ASP:O	2.14	0.81
1:gZ:99:LEU:CD1	1:mq:60:ARG:CD	2.44	0.81
1:hm:99:LEU:HG	1:iU:102:GLU:HG2	1.59	0.81
2:hs:36:THR:O	2:hs:175:THR:OG1	1.99	0.81
2:iy:52:GLN:NE2	2:iy:252:ASP:O	2.14	0.81
1:iR:99:LEU:CD2	1:kj:102:GLU:HB3	2.09	0.81
2:iX:282:ARG:CZ	2:jl:282:ARG:NH2	2.42	0.81
2:lf:36:THR:O	2:lf:175:THR:OG1	1.98	0.81
2:lr:36:THR:O	2:lr:175:THR:OG1	1.99	0.81
2:mh:36:THR:O	2:mh:175:THR:OG1	1.99	0.81
2:ob:36:THR:O	2:ob:175:THR:OG1	1.99	0.81
2:px:52:GLN:NE2	2:px:252:ASP:O	2.14	0.81
2:pZ:52:GLN:NE2	2:pZ:252:ASP:O	2.14	0.81
4:qm:89:VAL:CG2	4:qn:245:ASP:HB3	2.11	0.81
5:qp:53:GLU:CD	5:qr:35:HIS:NE2	2.39	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:av:61:GLY:HA2	1:bH:103:ARG:CZ	2.10	0.81
2:ax:52:GLN:NE2	2:ax:252:ASP:O	2.14	0.81
1:aO:100:LYS:CG	1:iV:100:LYS:NZ	2.40	0.81
1:bv:102:GLU:HG2	1:dy:99:LEU:HG	1.59	0.81
2:cE:52:GLN:NE2	2:cE:252:ASP:O	2.14	0.81
1:cX:103:ARG:NE	2:dH:61:GLY:O	2.14	0.81
2:ds:36:THR:O	2:ds:175:THR:OG1	1.98	0.81
1:dL:102:GLU:CD	1:pe:99:LEU:HD21	2.01	0.81
2:el:238:ASN:O	2:el:242:VAL:HG23	1.81	0.81
2:fm:61:GLY:HA2	1:gy:103:ARG:CZ	2.10	0.81
1:fK:99:LEU:O	2:lW:197:LYS:CD	2.29	0.81
1:gm:99:LEU:O	2:hV:197:LYS:CD	2.29	0.81
2:ii:36:THR:O	2:ii:175:THR:OG1	1.98	0.81
2:jC:52:GLN:NE2	2:jC:252:ASP:O	2.14	0.81
2:kB:36:THR:O	2:kB:175:THR:OG1	1.99	0.81
2:lt:36:THR:O	2:lt:175:THR:OG1	1.98	0.81
2:ml:52:GLN:NE2	2:ml:252:ASP:O	2.14	0.81
3:qd:55:GLU:CG	4:qn:223:ASN:HD22	1.94	0.81
4:qj:116:PHE:CD1	4:qk:202:ILE:CD1	2.64	0.81
5:qx:53:GLU:CD	5:qz:35:HIS:NE2	2.39	0.81
2:av:36:THR:O	2:av:175:THR:OG1	1.98	0.81
2:aH:36:THR:O	2:aH:175:THR:OG1	1.99	0.81
2:aM:238:ASN:O	2:aM:242:VAL:HG23	1.82	0.81
1:aR:103:ARG:CZ	2:bl:61:GLY:HA2	2.10	0.81
2:bn:52:GLN:NE2	2:bn:252:ASP:O	2.14	0.81
2:bx:61:GLY:HA2	1:hP:103:ARG:HD2	1.60	0.81
2:bO:52:GLN:NE2	2:bO:252:ASP:O	2.14	0.81
2:cq:52:GLN:NE2	2:cq:252:ASP:O	2.14	0.81
1:ct:100:LYS:CG	1:ps:100:LYS:NZ	2.40	0.81
2:cA:36:THR:O	2:cA:175:THR:OG1	1.99	0.81
2:cD:197:LYS:CD	1:cM:99:LEU:O	2.29	0.81
1:db:99:LEU:HD21	1:eP:102:GLU:CD	2.02	0.81
1:dz:103:ARG:NE	2:gF:61:GLY:O	2.14	0.81
1:dM:99:LEU:HG	1:jK:102:GLU:HG2	1.59	0.81
2:dU:61:GLY:HA2	1:oN:103:ARG:CZ	2.10	0.81
2:eK:36:THR:O	2:eK:175:THR:OG1	1.98	0.81
1:fi:99:LEU:O	2:gF:197:LYS:CD	2.29	0.81
2:fn:197:LYS:CD	1:nx:99:LEU:O	2.29	0.81
1:fw:99:LEU:O	2:no:197:LYS:CD	2.29	0.81
2:fB:61:GLY:O	1:nW:103:ARG:NE	2.15	0.81
1:hq:99:LEU:O	2:kq:197:LYS:CD	2.29	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ko:184:TYR:CE2	5:qH:30:LYS:HD2	2.15	0.81
2:kr:52:GLN:NE2	2:kr:252:ASP:O	2.14	0.81
1:kw:99:LEU:CD2	1:lO:102:GLU:HB3	2.09	0.81
1:nJ:103:ARG:CZ	2:od:61:GLY:HA2	2.10	0.81
2:nR:52:GLN:NE2	2:nR:252:ASP:O	2.14	0.81
1:ok:60:ARG:CD	1:oM:99:LEU:CD1	2.44	0.81
2:pV:36:THR:O	2:pV:175:THR:OG1	1.99	0.81
3:qd:66:GLN:N	4:qn:9:GLY:C	2.37	0.81
5:qt:53:GLU:CD	5:qv:35:HIS:NE2	2.39	0.81
5:qv:53:GLU:CD	5:qx:35:HIS:NE2	2.39	0.81
5:qx:229:ILE:HD11	5:qz:232:LEU:CD1	2.07	0.81
5:qJ:229:ILE:HD11	5:qL:232:LEU:CD1	2.08	0.81
2:aK:197:LYS:CD	1:iU:99:LEU:O	2.29	0.80
1:bs:103:ARG:NE	2:cb:61:GLY:O	2.14	0.80
2:bQ:103:MET:CE	5:qp:174:ARG:HH21	1.93	0.80
1:bT:103:ARG:NE	2:eZ:61:GLY:O	2.14	0.80
1:bW:99:LEU:O	2:dt:197:LYS:CD	2.29	0.80
1:cy:99:LEU:O	2:pi:197:LYS:CD	2.29	0.80
1:cJ:99:LEU:HD22	1:po:102:GLU:CB	1.98	0.80
1:dQ:99:LEU:O	2:oU:197:LYS:CD	2.29	0.80
1:ep:60:ARG:CZ	1:pa:99:LEU:CD2	2.53	0.80
2:eu:36:THR:O	2:eu:175:THR:OG1	1.99	0.80
2:fB:197:LYS:CD	1:mf:99:LEU:O	2.29	0.80
1:hn:103:ARG:NE	2:kS:61:GLY:O	2.14	0.80
1:hr:100:LYS:HZ3	1:ku:100:LYS:CD	1.94	0.80
1:ip:103:ARG:NE	2:lu:61:GLY:O	2.15	0.80
2:iY:36:THR:O	2:iY:175:THR:OG1	1.98	0.80
2:jj:36:THR:O	2:jj:175:THR:OG1	1.99	0.80
2:kE:61:GLY:O	1:lO:103:ARG:NE	2.14	0.80
2:lh:52:GLN:NE2	2:lh:252:ASP:O	2.14	0.80
2:lv:52:GLN:NE2	2:lv:252:ASP:O	2.14	0.80
2:lK:238:ASN:O	2:lK:242:VAL:HG23	1.82	0.80
2:lY:238:ASN:O	2:lY:242:VAL:HG23	1.82	0.80
2:mm:238:ASN:O	2:mm:242:VAL:HG23	1.82	0.80
2:my:197:LYS:CD	1:oB:99:LEU:O	2.29	0.80
2:mL:61:GLY:HA2	1:ol:103:ARG:CZ	2.10	0.80
3:qe:68:ALA:H	4:qm:8:TYR:HE2	0.86	0.80
3:qf:64:GLY:C	4:qk:219:ILE:HG23	2.04	0.80
4:qm:116:PHE:CD1	4:qn:202:ILE:CD1	2.63	0.80
5:qx:392:LEU:CD1	5:qz:400:TYR:OH	2.28	0.80
5:qD:392:LEU:CD1	5:qF:400:TYR:OH	2.27	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aY:61:GLY:O	1:ch:103:ARG:NE	2.14	0.80
2:bm:197:LYS:CD	1:do:99:LEU:O	2.29	0.80
2:bC:238:ASN:O	2:bC:242:VAL:HG23	1.82	0.80
2:bQ:189:LYS:HE3	5:qL:54:GLN:HE22	1.45	0.80
2:co:197:LYS:HZ1	1:jg:99:LEU:CA	1.93	0.80
2:cp:61:GLY:O	1:jf:103:ARG:NE	2.14	0.80
2:cT:238:ASN:O	2:cT:242:VAL:HG23	1.82	0.80
1:da:99:LEU:O	2:eL:197:LYS:CD	2.29	0.80
2:dE:61:GLY:HA2	1:pc:103:ARG:HD2	1.60	0.80
2:dH:197:LYS:CD	1:pd:99:LEU:O	2.29	0.80
2:dU:52:GLN:OE1	2:dU:255:ARG:NH1	2.15	0.80
2:dX:238:ASN:O	2:dX:242:VAL:HG23	1.82	0.80
1:eb:103:ARG:NE	2:oe:61:GLY:O	2.14	0.80
2:ek:52:GLN:NE2	2:ek:252:ASP:O	2.14	0.80
2:fA:52:GLN:OE1	2:fA:255:ARG:NH1	2.15	0.80
2:fA:197:LYS:HZ1	1:nX:99:LEU:CA	1.92	0.80
1:fL:100:LYS:HZ1	1:ma:100:LYS:HG2	1.44	0.80
2:fr:238:ASN:O	2:fr:242:VAL:HG23	1.82	0.80
2:ga:61:GLY:HA2	1:id:103:ARG:HD2	1.60	0.80
2:hw:238:ASN:O	2:hw:242:VAL:HG23	1.82	0.80
1:hA:103:ARG:NE	2:lW:61:GLY:O	2.14	0.80
2:hF:36:THR:O	2:hF:175:THR:OG1	1.99	0.80
2:ii:52:GLN:OE1	2:ii:255:ARG:NH1	2.15	0.80
1:is:99:LEU:O	2:jP:197:LYS:CD	2.29	0.80
2:iw:52:GLN:OE1	2:iw:255:ARG:NH1	2.15	0.80
1:lE:100:LYS:HZ3	1:ne:100:LYS:CD	1.94	0.80
2:lT:36:THR:O	2:lT:175:THR:OG1	1.99	0.80
2:mv:106:MET:HE3	2:mv:184:TYR:CD1	2.17	0.80
2:mz:52:GLN:NE2	2:mz:252:ASP:O	2.14	0.80
2:mL:52:GLN:OE1	2:mL:255:ARG:NH1	2.15	0.80
2:nB:52:GLN:OE1	2:nB:255:ARG:NH1	2.15	0.80
1:nU:100:LYS:HG2	1:oa:100:LYS:HZ1	1.46	0.80
2:oH:52:GLN:NE2	2:oH:252:ASP:O	2.14	0.80
2:oT:52:GLN:OE1	2:oT:255:ARG:NH1	2.15	0.80
3:qd:68:ALA:CB	4:qn:8:TYR:HH	1.93	0.80
3:qf:25:LEU:HD21	6:qC:82:VAL:CB	2.10	0.80
3:qg:66:GLN:C	4:qk:194:LEU:CD1	2.54	0.80
4:qj:89:VAL:CG2	4:qk:245:ASP:HB3	2.11	0.80
2:ai:52:GLN:OE1	2:ai:255:ARG:NH1	2.15	0.80
1:at:100:LYS:NZ	1:bR:100:LYS:CG	2.40	0.80
2:ba:238:ASN:O	2:ba:242:VAL:HG23	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bK:69:ALA:C	6:qw:116:GLY:CA	2.54	0.80
2:ca:52:GLN:OE1	2:ca:255:ARG:NH1	2.15	0.80
2:dV:61:GLY:O	1:pC:103:ARG:NE	2.14	0.80
1:eb:99:LEU:CD2	1:ft:102:GLU:HB3	2.09	0.80
1:ee:99:LEU:O	2:nC:197:LYS:CD	2.29	0.80
2:eh:282:ARG:NH2	2:nA:282:ARG:CZ	2.42	0.80
2:ew:52:GLN:OE1	2:ew:255:ARG:NH1	2.15	0.80
2:fA:60:ILE:HG22	1:nh:105:THR:HG21	1.57	0.80
2:fM:36:THR:O	2:fM:175:THR:OG1	1.99	0.80
2:gc:52:GLN:OE1	2:gc:255:ARG:NH1	2.15	0.80
2:gE:52:GLN:OE1	2:gE:255:ARG:NH1	2.15	0.80
2:gS:36:THR:O	2:gS:175:THR:OG1	1.98	0.80
2:gV:238:ASN:O	2:gV:242:VAL:HG23	1.82	0.80
2:hg:61:GLY:HA2	1:lB:103:ARG:CZ	2.10	0.80
1:hn:60:ARG:CZ	1:kK:99:LEU:CD2	2.53	0.80
2:hs:189:LYS:HZ1	5:qD:30:LYS:C	1.89	0.80
2:hH:61:GLY:O	1:kw:103:ARG:NE	2.14	0.80
2:il:238:ASN:O	2:il:242:VAL:HG23	1.81	0.80
2:iM:52:GLN:NE2	2:iM:252:ASP:O	2.14	0.80
1:iS:103:ARG:CZ	2:jm:61:GLY:HA2	2.10	0.80
2:ja:52:GLN:NE2	2:ja:252:ASP:O	2.14	0.80
2:jD:238:ASN:O	2:jD:242:VAL:HG23	1.82	0.80
2:jO:52:GLN:OE1	2:jO:255:ARG:NH1	2.15	0.80
2:kR:52:GLN:OE1	2:kR:255:ARG:NH1	2.15	0.80
2:kU:238:ASN:O	2:kU:242:VAL:HG23	1.82	0.80
2:lr:106:MET:HE3	2:lr:184:TYR:CD1	2.17	0.80
2:lF:106:MET:HE3	2:lF:184:TYR:CD1	2.17	0.80
1:mC:100:LYS:CD	1:oC:100:LYS:HZ3	1.94	0.80
2:mZ:52:GLN:OE1	2:mZ:255:ARG:NH1	2.15	0.80
2:nn:36:THR:O	2:nn:175:THR:OG1	1.98	0.80
2:nQ:197:LYS:CD	1:nZ:99:LEU:O	2.29	0.80
2:og:238:ASN:O	2:og:242:VAL:HG23	1.81	0.80
1:ok:103:ARG:NE	2:oU:61:GLY:O	2.14	0.80
2:or:36:THR:O	2:or:175:THR:OG1	1.98	0.80
2:ov:221:PHE:CD2	2:ov:242:VAL:HG12	2.17	0.80
2:oV:52:GLN:NE2	2:oV:252:ASP:O	2.14	0.80
2:pt:36:THR:O	2:pt:175:THR:OG1	1.99	0.80
2:pv:52:GLN:OE1	2:pv:255:ARG:NH1	2.15	0.80
2:py:238:ASN:O	2:py:242:VAL:HG23	1.82	0.80
2:pJ:52:GLN:OE1	2:pJ:255:ARG:NH1	2.15	0.80
2:pL:52:GLN:NE2	2:pL:252:ASP:O	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qF:392:LEU:CD1	5:qH:400:TYR:OH	2.28	0.80
1:aQ:103:ARG:NE	2:jn:61:GLY:O	2.14	0.80
2:bp:221:PHE:CD2	2:bp:242:VAL:HG12	2.17	0.80
2:bx:36:THR:O	2:bx:175:THR:OG1	1.99	0.80
1:bJ:99:LEU:O	2:hH:197:LYS:CD	2.29	0.80
2:bM:52:GLN:OE1	2:bM:255:ARG:NH1	2.15	0.80
2:co:36:THR:O	2:co:175:THR:OG1	1.98	0.80
1:cJ:103:ARG:NE	2:iL:61:GLY:O	2.14	0.80
1:cW:99:LEU:HG	1:fi:102:GLU:HG2	1.59	0.80
2:ei:36:THR:O	2:ei:175:THR:OG1	1.98	0.80
2:ew:36:THR:O	2:ew:175:THR:OG1	1.98	0.80
2:ez:238:ASN:O	2:ez:242:VAL:HG23	1.81	0.80
1:eG:99:LEU:O	2:gr:197:LYS:CD	2.29	0.80
2:eL:61:GLY:O	1:ib:103:ARG:NE	2.14	0.80
2:fk:106:MET:HE3	2:fk:184:TYR:CD1	2.17	0.80
2:fD:238:ASN:O	2:fD:242:VAL:HG23	1.82	0.80
2:gd:61:GLY:O	1:mc:103:ARG:NE	2.14	0.80
2:hi:52:GLN:NE2	2:hi:252:ASP:O	2.14	0.80
1:ho:103:ARG:CZ	2:hG:61:GLY:HA2	2.10	0.80
2:hs:106:MET:HG2	5:qB:178:PRO:HG3	1.63	0.80
2:hS:36:THR:O	2:hS:175:THR:OG1	1.99	0.80
2:iu:36:THR:O	2:iu:175:THR:OG1	1.99	0.80
2:iA:221:PHE:CD2	2:iA:242:VAL:HG12	2.17	0.80
2:iL:36:THR:O	2:iL:175:THR:OG1	1.99	0.80
2:iK:36:THR:O	2:iK:175:THR:OG1	1.98	0.80
2:iZ:61:GLY:O	1:kj:103:ARG:NE	2.14	0.80
2:jy:106:MET:HE3	2:jy:184:TYR:CD1	2.17	0.80
2:kc:52:GLN:OE1	2:kc:255:ARG:NH1	2.15	0.80
2:kg:221:PHE:CD2	2:kg:242:VAL:HG12	2.17	0.80
1:lb:99:LEU:O	2:mM:197:LYS:CD	2.29	0.80
2:lg:61:GLY:O	1:oy:103:ARG:NE	2.14	0.80
1:lm:103:ARG:NE	2:pY:61:GLY:O	2.15	0.80
2:IH:52:GLN:OE1	2:IH:255:ARG:NH1	2.15	0.80
2:mx:52:GLN:OE1	2:mx:255:ARG:NH1	2.15	0.80
1:mE:103:ARG:NE	2:no:61:GLY:O	2.14	0.80
2:ou:238:ASN:O	2:ou:242:VAL:HG23	1.82	0.80
2:pk:238:ASN:O	2:pk:242:VAL:HG23	1.82	0.80
2:pl:221:PHE:CD2	2:pl:242:VAL:HG12	2.17	0.80
2:aN:221:PHE:CD2	2:aN:242:VAL:HG12	2.17	0.80
2:aX:52:GLN:OE1	2:aX:255:ARG:NH1	2.15	0.80
1:be:99:LEU:CD1	1:iR:60:ARG:CD	2.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bz:52:GLN:OE1	2:bz:255:ARG:NH1	2.15	0.80
2:bL:184:TYR:CE2	5:qr:165:PRO:HG3	2.17	0.80
2:bQ:97:GLY:C	5:qp:51:GLU:OE2	2.24	0.80
2:bQ:221:PHE:CD2	2:bQ:242:VAL:HG12	2.17	0.80
2:de:36:THR:O	2:de:175:THR:OG1	1.98	0.80
2:dU:36:THR:O	2:dU:175:THR:OG1	1.98	0.80
2:eO:221:PHE:CD2	2:eO:242:VAL:HG12	2.17	0.80
2:fc:221:PHE:CD2	2:fc:242:VAL:HG12	2.17	0.80
2:fo:52:GLN:NE2	2:fo:252:ASP:O	2.14	0.80
2:fP:61:GLY:O	1:gZ:103:ARG:NE	2.15	0.80
2:ga:106:MET:HE3	2:ga:184:TYR:CD1	2.17	0.80
2:gd:197:LYS:CD	1:ie:99:LEU:O	2.29	0.80
2:gf:238:ASN:O	2:gf:242:VAL:HG23	1.82	0.80
1:gh:102:GLU:CD	1:if:99:LEU:HD21	2.02	0.80
2:gG:52:GLN:NE2	2:gG:252:ASP:O	2.14	0.80
2:gQ:36:THR:O	2:gQ:175:THR:OG1	1.99	0.80
1:hc:99:LEU:O	2:II:197:LYS:CD	2.29	0.80
2:hv:52:GLN:NE2	2:hv:252:ASP:O	2.14	0.80
2:hx:103:MET:CE	5:qz:31:GLU:HB3	2.10	0.80
2:hG:52:GLN:OE1	2:hG:255:ARG:NH1	2.15	0.80
2:hW:52:GLN:NE2	2:hW:252:ASP:O	2.14	0.80
2:jB:197:LYS:CD	1:pT:99:LEU:O	2.29	0.80
1:jV:102:GLU:CB	1:mS:99:LEU:HD22	1.98	0.80
2:ld:36:THR:O	2:ld:175:THR:OG1	1.99	0.80
2:lf:52:GLN:OE1	2:lf:255:ARG:NH1	2.15	0.80
1:IA:103:ARG:NE	2:oG:61:GLY:O	2.14	0.80
2:nr:221:PHE:CD2	2:nr:242:VAL:HG12	2.17	0.80
2:nS:238:ASN:O	2:nS:242:VAL:HG23	1.82	0.80
2:of:52:GLN:NE2	2:of:252:ASP:O	2.14	0.80
1:on:99:LEU:O	2:pY:197:LYS:CD	2.29	0.80
2:pw:197:LYS:CD	1:pF:99:LEU:O	2.29	0.80
2:pH:36:THR:O	2:pH:175:THR:OG1	1.99	0.80
2:pM:238:ASN:O	2:pM:242:VAL:HG23	1.82	0.80
2:pN:221:PHE:CD2	2:pN:242:VAL:HG12	2.17	0.80
2:pX:36:THR:O	2:pX:175:THR:OG1	1.98	0.80
2:pX:52:GLN:OE1	2:pX:255:ARG:NH1	2.15	0.80
3:qi:55:GLU:CG	4:qo:223:ASN:HD22	1.94	0.80
4:qk:89:VAL:CG2	4:ql:245:ASP:HB3	2.11	0.80
5:qr:53:GLU:CD	5:qt:35:HIS:NE2	2.39	0.80
1:ab:103:ARG:NE	2:mM:61:GLY:O	2.14	0.80
1:af:100:LYS:NZ	1:oi:100:LYS:CG	2.40	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:av:52:GLN:OE1	2:av:255:ARG:NH1	2.15	0.80
2:az:103:MET:HE3	5:qJ:32:PHE:CD2	2.11	0.80
2:az:180:LYS:HD2	5:qH:178:PRO:HG2	1.63	0.80
2:cO:36:THR:O	2:cO:175:THR:OG1	1.99	0.80
2:ds:52:GLN:OE1	2:ds:255:ARG:NH1	2.15	0.80
2:dE:36:THR:O	2:dE:175:THR:OG1	1.99	0.80
2:em:221:PHE:CD2	2:em:242:VAL:HG12	2.17	0.80
2:ex:61:GLY:O	1:nI:103:ARG:NE	2.14	0.80
2:eW:106:MET:HE3	2:eW:184:TYR:CD1	2.17	0.80
1:fg:99:LEU:HA	2:ii:197:LYS:HZ1	1.47	0.80
1:fH:103:ARG:NE	2:my:61:GLY:O	2.14	0.80
2:hh:197:LYS:CD	1:kz:99:LEU:O	2.29	0.80
2:hU:52:GLN:OE1	2:hU:255:ARG:NH1	2.15	0.80
2:jm:52:GLN:OE1	2:jm:255:ARG:NH1	2.15	0.80
2:jp:238:ASN:O	2:jp:242:VAL:HG23	1.82	0.80
1:jx:99:LEU:HD21	1:lk:102:GLU:CD	2.02	0.80
2:jS:221:PHE:CD2	2:jS:242:VAL:HG12	2.17	0.80
2:ks:238:ASN:O	2:ks:242:VAL:HG23	1.82	0.80
2:lj:221:PHE:CD2	2:lj:242:VAL:HG12	2.17	0.80
2:IH:61:GLY:HA2	1:mT:103:ARG:CZ	2.10	0.80
2:mk:197:LYS:CD	1:mt:99:LEU:O	2.29	0.80
2:mO:238:ASN:O	2:mO:242:VAL:HG23	1.82	0.80
2:nE:238:ASN:O	2:nE:242:VAL:HG23	1.82	0.80
2:oR:36:THR:O	2:oR:175:THR:OG1	1.99	0.80
2:pf:106:MET:HE3	2:pf:184:TYR:CD1	2.17	0.80
2:pV:106:MET:HE3	2:pV:184:TYR:CD1	2.17	0.80
3:qd:25:LEU:HD21	6:qu:82:VAL:CB	2.10	0.80
4:ql:89:VAL:CG2	4:qm:245:ASP:HB3	2.11	0.80
5:qD:53:GLU:CD	5:qF:35:HIS:NE2	2.39	0.80
5:qD:229:ILE:HD11	5:qF:232:LEU:CD1	2.07	0.80
2:ak:52:GLN:NE2	2:ak:252:ASP:O	2.14	0.80
1:as:99:LEU:O	2:bN:197:LYS:CD	2.29	0.80
2:au:36:THR:O	2:au:175:THR:OG1	1.99	0.80
2:aw:197:LYS:CD	1:km:99:LEU:O	2.29	0.80
2:aH:106:MET:HE3	2:aH:184:TYR:CD1	2.17	0.80
2:aV:106:MET:HE3	2:aV:184:TYR:CD1	2.17	0.80
2:bb:221:PHE:CD2	2:bb:242:VAL:HG12	2.17	0.80
2:bm:61:GLY:O	1:iR:103:ARG:NE	2.14	0.80
2:bx:106:MET:HE3	2:bx:184:TYR:CD1	2.17	0.80
2:bA:61:GLY:O	1:eR:103:ARG:NE	2.15	0.80
2:bM:197:LYS:HZ1	1:gM:99:LEU:CA	1.94	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bP:238:ASN:O	2:bP:242:VAL:HG23	1.82	0.80
2:cS:52:GLN:NE2	2:cS:252:ASP:O	2.14	0.80
2:dc:106:MET:HE3	2:dc:184:TYR:CD1	2.17	0.80
1:dl:103:ARG:NE	2:hV:61:GLY:O	2.14	0.80
1:dC:99:LEU:O	2:eZ:197:LYS:CD	2.29	0.80
2:dG:52:GLN:OE1	2:dG:255:ARG:NH1	2.15	0.80
2:eg:106:MET:HE3	2:eg:184:TYR:CD1	2.17	0.80
2:ei:52:GLN:OE1	2:ei:255:ARG:NH1	2.15	0.80
2:eN:238:ASN:O	2:eN:242:VAL:HG23	1.81	0.80
2:fb:238:ASN:O	2:fb:242:VAL:HG23	1.82	0.80
1:fr:100:LYS:CD	1:ny:100:LYS:HZ1	1.95	0.80
1:fV:103:ARG:NE	2:nC:61:GLY:O	2.14	0.80
2:gW:221:PHE:CD2	2:gW:242:VAL:HG12	2.17	0.80
2:hs:189:LYS:NZ	5:qD:30:LYS:C	2.39	0.80
1:hA:60:ARG:CD	1:lO:99:LEU:CD1	2.44	0.80
2:hK:221:PHE:CD2	2:hK:242:VAL:HG12	2.17	0.80
2:hY:221:PHE:CD2	2:hY:242:VAL:HG12	2.17	0.80
2:ix:61:GLY:O	1:pQ:103:ARG:NE	2.14	0.80
2:jO:36:THR:O	2:jO:175:THR:OG1	1.98	0.80
1:lD:99:LEU:O	2:na:197:LYS:CD	2.29	0.80
2:mv:36:THR:O	2:mv:175:THR:OG1	1.99	0.80
2:nT:221:PHE:CD2	2:nT:242:VAL:HG12	2.17	0.80
2:oW:238:ASN:O	2:oW:242:VAL:HG23	1.82	0.80
5:qp:35:HIS:NE2	5:qL:53:GLU:CD	2.39	0.80
5:qB:53:GLU:CD	5:qD:35:HIS:NE2	2.39	0.80
5:qH:53:GLU:CD	5:qJ:35:HIS:NE2	2.39	0.80
1:ae:99:LEU:O	2:oe:197:LYS:CD	2.29	0.80
2:ay:238:ASN:O	2:ay:242:VAL:HG23	1.82	0.80
2:bo:238:ASN:O	2:bo:242:VAL:HG23	1.82	0.80
2:bz:36:THR:O	2:bz:175:THR:OG1	1.98	0.80
2:ce:221:PHE:CD2	2:ce:242:VAL:HG12	2.17	0.80
2:cm:106:MET:HE3	2:cm:184:TYR:CD1	2.17	0.80
2:cC:52:GLN:OE1	2:cC:255:ARG:NH1	2.15	0.80
2:cR:61:GLY:O	1:po:103:ARG:NE	2.14	0.80
2:du:52:GLN:NE2	2:du:252:ASP:O	2.14	0.80
2:ej:61:GLY:O	1:ft:103:ARG:NE	2.15	0.80
2:fm:52:GLN:OE1	2:fm:255:ARG:NH1	2.15	0.80
2:fM:106:MET:HE3	2:fM:184:TYR:CD1	2.17	0.80
2:gC:36:THR:O	2:gC:175:THR:OG1	1.99	0.80
1:iD:103:ARG:NE	2:pw:61:GLY:O	2.14	0.80
2:jP:61:GLY:O	1:oM:103:ARG:NE	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jY:99:LEU:O	2:lu:197:LYS:CD	2.29	0.80
2:lx:221:PHE:CD2	2:lx:242:VAL:HG12	2.17	0.80
2:lF:36:THR:O	2:lF:175:THR:OG1	1.99	0.80
2:IV:52:GLN:OE1	2:IV:255:ARG:NH1	2.15	0.80
2:nd:221:PHE:CD2	2:nd:242:VAL:HG12	2.17	0.80
1:nj:99:LEU:O	2:oG:197:LYS:CD	2.29	0.80
2:nD:52:GLN:NE2	2:nD:252:ASP:O	2.14	0.80
2:oJ:221:PHE:CD2	2:oJ:242:VAL:HG12	2.17	0.80
2:pz:221:PHE:CD2	2:pz:242:VAL:HG12	2.17	0.80
4:qj:245:ASP:HB3	4:qo:89:VAL:CG2	2.11	0.80
4:qn:89:VAL:CG2	4:qo:245:ASP:HB3	2.11	0.80
5:qF:53:GLU:CD	5:qH:35:HIS:NE2	2.39	0.80
5:qJ:53:GLU:CD	5:qL:35:HIS:NE2	2.39	0.80
2:au:106:MET:HE3	2:au:184:TYR:CD1	2.17	0.80
2:az:188:MET:SD	5:qH:51:GLU:HG2	2.22	0.80
2:de:197:LYS:HZ2	1:gy:99:LEU:C	1.90	0.80
1:eD:103:ARG:NE	2:fn:61:GLY:O	2.15	0.80
2:fO:52:GLN:OE1	2:fO:255:ARG:NH1	2.15	0.80
2:gt:238:ASN:O	2:gt:242:VAL:HG23	1.82	0.80
2:hj:238:ASN:O	2:hj:242:VAL:HG23	1.82	0.80
1:hr:70:GLY:HA3	6:qG:117:LYS:N	1.97	0.80
2:iI:106:MET:HE3	2:iI:184:TYR:CD1	2.17	0.80
2:iN:238:ASN:O	2:iN:242:VAL:HG23	1.82	0.80
2:kH:221:PHE:CD2	2:kH:242:VAL:HG12	2.17	0.80
2:ld:106:MET:HE3	2:ld:184:TYR:CD1	2.17	0.80
2:lZ:221:PHE:CD2	2:lZ:242:VAL:HG12	2.17	0.80
2:mh:106:MET:HE3	2:mh:184:TYR:CD1	2.17	0.80
2:oF:52:GLN:OE1	2:oF:255:ARG:NH1	2.15	0.80
2:pt:106:MET:HE3	2:pt:184:TYR:CD1	2.17	0.80
3:qf:66:GLN:CA	4:ql:8:TYR:O	2.30	0.80
6:qq:8:ASP:HA	6:qs:39:ARG:HH12	1.47	0.80
6:qA:109:SER:OG	6:qC:53:HIS:CD2	2.30	0.80
2:bl:52:GLN:OE1	2:bl:255:ARG:NH1	2.15	0.80
1:bE:100:LYS:CD	1:hR:100:LYS:HZ3	1.95	0.80
1:bK:70:GLY:N	6:qw:116:GLY:HA3	1.96	0.80
2:bL:106:MET:HE3	2:bL:184:TYR:CD1	2.17	0.80
1:ck:99:LEU:O	2:ix:197:LYS:CD	2.29	0.80
2:cs:221:PHE:CD2	2:cs:242:VAL:HG12	2.17	0.80
2:cD:61:GLY:O	1:dN:103:ARG:NE	2.14	0.80
2:cG:221:PHE:CD2	2:cG:242:VAL:HG12	2.17	0.80
1:cK:99:LEU:C	2:iK:197:LYS:HZ1	1.90	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dl:60:ARG:CD	1:hN:99:LEU:CD1	2.44	0.80
2:dU:197:LYS:HZ1	1:pD:99:LEU:C	1.89	0.80
2:dW:52:GLN:NE2	2:dW:252:ASP:O	2.14	0.80
2:dY:221:PHE:CD2	2:dY:242:VAL:HG12	2.17	0.80
2:gq:52:GLN:OE1	2:gq:255:ARG:NH1	2.15	0.80
2:gU:52:GLN:NE2	2:gU:252:ASP:O	2.14	0.80
2:he:36:THR:O	2:he:175:THR:OG1	1.99	0.80
2:hs:104:GLN:HE22	5:qB:165:PRO:HG2	1.46	0.80
2:ht:52:GLN:OE1	2:ht:255:ARG:NH1	2.15	0.80
1:it:100:LYS:HZ1	1:jT:100:LYS:CD	1.95	0.80
2:iK:52:GLN:OE1	2:iK:255:ARG:NH1	2.15	0.80
2:iY:197:LYS:HZ1	1:kk:99:LEU:C	1.89	0.80
2:jc:221:PHE:CD2	2:jc:242:VAL:HG12	2.17	0.80
1:ju:103:ARG:CZ	2:pX:61:GLY:HA2	2.10	0.80
2:kD:52:GLN:OE1	2:kD:255:ARG:NH1	2.15	0.80
1:mH:99:LEU:O	2:os:197:LYS:CD	2.29	0.80
2:nc:238:ASN:O	2:nc:242:VAL:HG23	1.82	0.80
2:ot:52:GLN:NE2	2:ot:252:ASP:O	2.14	0.80
3:qi:55:GLU:CG	4:qo:223:ASN:ND2	2.44	0.80
5:qp:240:PRO:HA	5:qr:268:GLU:CD	2.07	0.80
1:ac:99:LEU:C	2:mL:197:LYS:HZ1	1.90	0.79
2:aj:197:LYS:CD	1:oP:99:LEU:O	2.29	0.79
2:al:238:ASN:O	2:al:242:VAL:HG23	1.82	0.79
2:dq:106:MET:HE3	2:dq:184:TYR:CD1	2.17	0.79
2:dE:106:MET:HE3	2:dE:184:TYR:CD1	2.17	0.79
2:eK:52:GLN:OE1	2:eK:255:ARG:NH1	2.15	0.79
2:eY:52:GLN:OE1	2:eY:255:ARG:NH1	2.15	0.79
2:fp:238:ASN:O	2:fp:242:VAL:HG23	1.82	0.79
1:gj:103:ARG:NE	2:gT:61:GLY:O	2.14	0.79
1:gO:99:LEU:O	2:ij:197:LYS:CD	2.29	0.79
2:iY:52:GLN:OE1	2:iY:255:ARG:NH1	2.15	0.79
2:jQ:221:PHE:CD2	2:jQ:242:VAL:HG12	2.17	0.79
2:kf:238:ASN:O	2:kf:242:VAL:HG23	1.81	0.79
2:kG:238:ASN:O	2:kG:242:VAL:HG23	1.82	0.79
2:lt:52:GLN:OE1	2:lt:255:ARG:NH1	2.15	0.79
2:mj:52:GLN:OE1	2:mj:255:ARG:NH1	2.15	0.79
2:od:52:GLN:OE1	2:od:255:ARG:NH1	2.15	0.79
2:op:36:THR:O	2:op:175:THR:OG1	1.99	0.79
2:oI:238:ASN:O	2:oI:242:VAL:HG23	1.82	0.79
2:ph:52:GLN:OE1	2:ph:255:ARG:NH1	2.15	0.79
2:qa:238:ASN:O	2:qa:242:VAL:HG23	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qg:68:ALA:CA	4:qk:8:TYR:HE2	1.95	0.79
3:qh:65:GLY:N	4:qj:10:GLN:CD	2.40	0.79
5:qt:392:LEU:HD13	5:qv:400:TYR:CZ	2.12	0.79
6:qw:8:ASP:HA	6:qy:39:ARG:HH12	1.47	0.79
5:qD:240:PRO:HA	5:qF:268:GLU:CD	2.07	0.79
6:qE:11:GLU:HB3	6:qG:39:ARG:NH1	1.97	0.79
2:am:221:PHE:CD2	2:am:242:VAL:HG12	2.17	0.79
2:aw:61:GLY:O	1:hN:103:ARG:NE	2.14	0.79
2:az:221:PHE:CD2	2:az:242:VAL:HG12	2.17	0.79
2:bY:106:MET:HE3	2:bY:184:TYR:CD1	2.17	0.79
1:cv:103:ARG:NE	2:pK:61:GLY:O	2.14	0.79
2:cQ:52:GLN:OE1	2:cQ:255:ARG:NH1	2.15	0.79
2:dK:221:PHE:CD2	2:dK:242:VAL:HG12	2.17	0.79
2:dS:36:THR:O	2:dS:175:THR:OG1	1.99	0.79
2:fa:52:GLN:NE2	2:fa:252:ASP:O	2.14	0.79
2:fy:36:THR:O	2:fy:175:THR:OG1	1.99	0.79
2:gH:238:ASN:O	2:gH:242:VAL:HG23	1.82	0.79
2:hk:221:PHE:CD2	2:hk:242:VAL:HG12	2.17	0.79
2:iz:238:ASN:O	2:iz:242:VAL:HG23	1.82	0.79
2:iW:36:THR:O	2:iW:175:THR:OG1	1.99	0.79
2:kt:111:GLY:HA3	5:qD:178:PRO:CD	2.08	0.79
2:kt:221:PHE:CD2	2:kt:242:VAL:HG12	2.17	0.79
2:kB:106:MET:HE3	2:kB:184:TYR:CD1	2.17	0.79
1:kY:103:ARG:NE	2:lI:61:GLY:O	2.14	0.79
2:lw:238:ASN:O	2:lw:242:VAL:HG23	1.82	0.79
3:qe:67:ARG:HB3	4:qm:194:LEU:CD1	2.12	0.79
3:qg:66:GLN:O	4:qk:10:GLN:CG	2.29	0.79
5:qz:392:LEU:CD1	5:qB:400:TYR:OH	2.28	0.79
1:aq:103:ARG:CZ	2:kp:61:GLY:HA2	2.10	0.79
2:az:188:MET:CE	5:qH:54:GLN:OE1	2.30	0.79
1:aC:103:ARG:NE	2:hu:61:GLY:O	2.14	0.79
1:aD:99:LEU:C	2:ht:197:LYS:HZ1	1.90	0.79
1:be:103:ARG:NE	2:kq:61:GLY:O	2.15	0.79
2:cA:106:MET:HE3	2:cA:184:TYR:CD1	2.17	0.79
2:cU:221:PHE:CD2	2:cU:242:VAL:HG12	2.17	0.79
1:dC:99:LEU:C	2:eZ:197:LYS:CD	2.56	0.79
1:ep:103:ARG:NE	2:pi:61:GLY:O	2.14	0.79
2:ex:197:LYS:CD	1:gA:99:LEU:O	2.29	0.79
2:ey:52:GLN:NE2	2:ey:252:ASP:O	2.14	0.79
2:eI:106:MET:HE3	2:eI:184:TYR:CD1	2.17	0.79
2:eW:36:THR:O	2:eW:175:THR:OG1	1.99	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fB:197:LYS:CD	1:mf:99:LEU:C	2.56	0.79
2:gu:221:PHE:CD2	2:gu:242:VAL:HG12	2.17	0.79
2:hX:221:PHE:CD2	2:hX:242:VAL:HG12	2.17	0.79
2:hX:238:ASN:O	2:hX:242:VAL:HG23	1.82	0.79
2:im:221:PHE:CD2	2:im:242:VAL:HG12	2.17	0.79
2:iZ:197:LYS:CD	1:ji:99:LEU:O	2.29	0.79
2:jk:106:MET:HE3	2:jk:184:TYR:CD1	2.17	0.79
1:jx:100:LYS:NZ	1:lk:100:LYS:CG	2.40	0.79
1:jH:103:ARG:NE	2:os:61:GLY:O	2.14	0.79
1:jV:103:ARG:NE	2:na:61:GLY:O	2.14	0.79
2:ke:52:GLN:NE2	2:ke:252:ASP:O	2.14	0.79
2:kp:52:GLN:OE1	2:kp:255:ARG:NH1	2.15	0.79
2:kt:111:GLY:HA3	5:qD:178:PRO:CG	2.12	0.79
1:mI:100:LYS:HZ2	1:ow:100:LYS:HG2	1.42	0.79
2:ob:106:MET:HE3	2:ob:184:TYR:CD1	2.17	0.79
2:or:52:GLN:OE1	2:or:255:ARG:NH1	2.15	0.79
3:qf:65:GLY:C	4:ql:10:GLN:NE2	2.40	0.79
3:qg:68:ALA:CA	4:qk:8:TYR:CE2	2.66	0.79
5:qt:240:PRO:HA	5:qv:268:GLU:CD	2.08	0.79
5:qv:240:PRO:HA	5:qx:268:GLU:CD	2.07	0.79
6:qy:11:GLU:HB3	6:qA:39:ARG:NH1	1.97	0.79
6:qC:8:ASP:HA	6:qE:39:ARG:HH12	1.47	0.79
5:qH:240:PRO:HA	5:qJ:268:GLU:CD	2.07	0.79
1:af:100:LYS:HZ3	1:oi:100:LYS:CD	1.96	0.79
1:as:99:LEU:C	2:bN:197:LYS:CD	2.56	0.79
2:az:95:ASN:OD1	5:qJ:44:LYS:HE2	1.81	0.79
2:bj:106:MET:HE3	2:bj:184:TYR:CD1	2.17	0.79
2:co:52:GLN:OE1	2:co:255:ARG:NH1	2.15	0.79
2:cD:197:LYS:CD	1:cM:99:LEU:C	2.56	0.79
1:da:99:LEU:C	2:eL:197:LYS:CD	2.56	0.79
2:de:52:GLN:OE1	2:de:255:ARG:NH1	2.15	0.79
2:df:61:GLY:O	1:gx:103:ARG:NE	2.14	0.79
2:dw:221:PHE:CD2	2:dw:242:VAL:HG12	2.17	0.79
1:fr:100:LYS:CG	1:ny:100:LYS:HZ1	1.95	0.79
2:gS:52:GLN:OE1	2:gS:255:ARG:NH1	2.15	0.79
2:hg:52:GLN:OE1	2:hg:255:ARG:NH1	2.15	0.79
2:hs:111:GLY:HA3	5:qB:176:ASN:CB	2.12	0.79
2:ig:106:MET:HE3	2:ig:184:TYR:CD1	2.17	0.79
2:jk:36:THR:O	2:jk:175:THR:OG1	1.99	0.79
2:jB:61:GLY:O	1:mS:103:ARG:NE	2.14	0.79
1:jH:60:ARG:CD	1:ok:99:LEU:CD1	2.44	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jM:36:THR:O	2:jM:175:THR:OG1	1.99	0.79
2:jM:106:MET:HE3	2:jM:184:TYR:CD1	2.17	0.79
2:jR:238:ASN:O	2:jR:242:VAL:HG23	1.82	0.79
2:mk:61:GLY:O	1:nu:103:ARG:NE	2.14	0.79
2:mn:221:PHE:CD2	2:mn:242:VAL:HG12	2.17	0.79
2:mA:238:ASN:O	2:mA:242:VAL:HG23	1.82	0.79
2:nN:106:MET:HE3	2:nN:184:TYR:CD1	2.17	0.79
2:nP:52:GLN:OE1	2:nP:255:ARG:NH1	2.15	0.79
2:oh:221:PHE:CD2	2:oh:242:VAL:HG12	2.17	0.79
2:oD:36:THR:O	2:oD:175:THR:OG1	1.99	0.79
2:oR:106:MET:HE3	2:oR:184:TYR:CD1	2.17	0.79
2:pH:106:MET:HE3	2:pH:184:TYR:CD1	2.17	0.79
3:qg:61:ASP:O	4:qk:33:SER:CB	2.31	0.79
3:qg:65:GLY:H	4:qk:10:GLN:CD	1.90	0.79
3:qh:68:ALA:HB2	4:qj:8:TYR:CZ	2.17	0.79
5:qt:42:PRO:HD2	6:qy:133:ASP:OD1	1.83	0.79
5:qv:42:PRO:HD2	6:qA:133:ASP:OD1	1.82	0.79
5:qv:392:LEU:CD1	5:qx:400:TYR:OH	2.28	0.79
5:qz:240:PRO:HA	5:qB:268:GLU:CD	2.07	0.79
1:ae:99:LEU:C	2:oe:197:LYS:CD	2.56	0.79
1:ap:103:ARG:NE	2:dt:61:GLY:O	2.14	0.79
2:az:183:ILE:CB	5:qH:178:PRO:CB	2.61	0.79
1:cK:105:THR:HG21	2:eY:60:ILE:HG22	1.57	0.79
2:dJ:238:ASN:O	2:dJ:242:VAL:HG23	1.81	0.79
2:eA:221:PHE:CD2	2:eA:242:VAL:HG12	2.17	0.79
1:fK:99:LEU:C	2:lW:197:LYS:CD	2.56	0.79
2:gQ:106:MET:HE3	2:gQ:184:TYR:CD1	2.17	0.79
2:gT:197:LYS:CD	1:lR:99:LEU:C	2.56	0.79
2:hK:184:TYR:CE2	5:qt:178:PRO:O	2.34	0.79
2:iO:221:PHE:CD2	2:iO:242:VAL:HG12	2.17	0.79
1:kx:105:THR:HG21	2:kR:60:ILE:HG22	1.57	0.79
2:kS:197:LYS:CD	1:mV:99:LEU:C	2.56	0.79
2:kV:221:PHE:CD2	2:kV:242:VAL:HG12	2.17	0.79
2:nn:52:GLN:OE1	2:nn:255:ARG:NH1	2.15	0.79
2:nz:36:THR:O	2:nz:175:THR:OG1	1.99	0.79
2:nF:221:PHE:CD2	2:nF:242:VAL:HG12	2.17	0.79
2:oX:221:PHE:CD2	2:oX:242:VAL:HG12	2.17	0.79
5:qr:398:TRP:CE2	5:qt:405:ILE:CD1	2.66	0.79
5:qx:240:PRO:HA	5:qz:268:GLU:CD	2.08	0.79
5:qz:53:GLU:CD	5:qB:35:HIS:NE2	2.39	0.79
6:qK:8:ASP:HA	6:qM:39:ARG:HH12	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aj:61:GLY:O	1:ng:103:ARG:NE	2.14	0.79
2:aj:197:LYS:CD	1:op:99:LEU:C	2.56	0.79
1:aR:99:LEU:CA	2:jm:197:LYS:HZ1	1.94	0.79
2:cr:238:ASN:O	2:cr:242:VAL:HG23	1.82	0.79
2:ek:107:GLY:HA2	2:ek:184:TYR:CZ	2.18	0.79
2:fQ:107:GLY:HA2	2:fQ:184:TYR:CZ	2.18	0.79
2:fS:221:PHE:CD2	2:fS:242:VAL:HG12	2.17	0.79
2:he:106:MET:HE3	2:he:184:TYR:CD1	2.17	0.79
2:hF:106:MET:HE3	2:hF:184:TYR:CD1	2.17	0.79
2:hJ:238:ASN:O	2:hJ:242:VAL:HG23	1.82	0.79
2:jn:197:LYS:CD	1:lp:99:LEU:C	2.56	0.79
2:IT:106:MET:HE3	2:IT:184:TYR:CD1	2.17	0.79
2:nz:106:MET:HE3	2:nz:184:TYR:CD1	2.17	0.79
2:nN:36:THR:O	2:nN:175:THR:OG1	1.99	0.79
3:qd:66:GLN:HA	4:qn:8:TYR:CD2	2.17	0.79
3:qi:61:ASP:C	4:qo:33:SER:HB2	2.08	0.79
5:qr:42:PRO:HD2	6:qw:133:ASP:OD1	1.82	0.79
6:qI:8:ASP:HA	6:qK:39:ARG:HH12	1.47	0.79
2:aK:61:GLY:O	1:kK:103:ARG:NE	2.14	0.79
2:aZ:107:GLY:HA2	2:aZ:184:TYR:CZ	2.18	0.79
1:bv:99:LEU:O	2:df:197:LYS:CD	2.29	0.79
2:bL:36:THR:O	2:bL:175:THR:OG1	1.99	0.79
1:bW:99:LEU:C	2:dt:197:LYS:CD	2.56	0.79
1:ck:99:LEU:C	2:ix:197:LYS:CD	2.56	0.79
1:ed:105:THR:HG21	2:nz:60:ILE:HG21	1.65	0.79
1:eG:99:LEU:C	2:gr:197:LYS:CD	2.56	0.79
1:fv:105:THR:HG21	2:nl:60:ILE:HG21	1.65	0.79
1:ff:100:LYS:CD	1:mg:100:LYS:HZ1	1.95	0.79
1:fJ:105:THR:HG21	2:IT:60:ILE:HG21	1.65	0.79
2:hh:197:LYS:CD	1:kz:99:LEU:C	2.56	0.79
2:hu:197:LYS:CD	1:hD:99:LEU:C	2.56	0.79
2:iy:107:GLY:HA2	2:iy:184:TYR:CZ	2.18	0.79
2:iM:107:GLY:HA2	2:iM:184:TYR:CZ	2.18	0.79
1:jt:103:ARG:NE	2:kd:61:GLY:O	2.14	0.79
1:jw:99:LEU:C	2:lg:197:LYS:CD	2.56	0.79
1:jJ:105:THR:HG21	2:pH:60:ILE:HG21	1.65	0.79
2:ka:36:THR:O	2:ka:175:THR:OG1	1.99	0.79
2:ka:106:MET:HE3	2:ka:184:TYR:CD1	2.17	0.79
2:kP:106:MET:HE3	2:kP:184:TYR:CD1	2.17	0.79
2:li:238:ASN:O	2:li:242:VAL:HG23	1.82	0.79
2:IL:221:PHE:CD2	2:IL:242:VAL:HG12	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IX:107:GLY:HA2	2:IX:184:TYR:CZ	2.18	0.79
2:mz:107:GLY:HA2	2:mz:184:TYR:CZ	2.18	0.79
2:mJ:36:THR:O	2:mJ:175:THR:OG1	1.99	0.79
2:mP:221:PHE:CD2	2:mP:242:VAL:HG12	2.17	0.79
2:mX:106:MET:HE3	2:mX:184:TYR:CD1	2.17	0.79
2:nl:106:MET:HE3	2:nl:184:TYR:CD1	2.17	0.79
2:nD:107:GLY:HA2	2:nD:184:TYR:CZ	2.18	0.79
3:qf:67:ARG:CB	4:ql:194:LEU:CD1	2.59	0.79
5:qp:268:GLU:CD	5:qL:240:PRO:HA	2.07	0.79
5:qp:398:TRP:CE2	5:qr:405:ILE:CD1	2.66	0.79
6:qq:11:GLU:HB3	6:qs:39:ARG:NH1	1.97	0.79
6:qA:11:GLU:HB3	6:qC:39:ARG:NH1	1.97	0.79
5:qB:42:PRO:HD2	6:qG:133:ASP:OD1	1.82	0.79
5:qD:398:TRP:CE2	5:qF:405:ILE:CD1	2.66	0.79
1:at:69:ALA:HB1	6:qs:61:ALA:HB2	1.62	0.79
1:aE:105:THR:HG21	2:ka:60:ILE:HG21	1.65	0.79
2:aV:36:THR:O	2:aV:175:THR:OG1	1.99	0.79
2:bD:221:PHE:CD2	2:bD:242:VAL:HG12	2.17	0.79
1:bJ:99:LEU:C	2:hH:197:LYS:CD	2.56	0.79
1:bK:70:GLY:CA	6:qw:117:LYS:H	1.94	0.79
2:bO:107:GLY:HA2	2:bO:184:TYR:CZ	2.18	0.79
2:cF:238:ASN:O	2:cF:242:VAL:HG23	1.81	0.79
2:eg:36:THR:O	2:eg:175:THR:OG1	1.99	0.79
2:ew:197:LYS:HZ1	1:nJ:99:LEU:C	1.90	0.79
2:fE:221:PHE:CD2	2:fE:242:VAL:HG12	2.17	0.79
2:ge:107:GLY:HA2	2:ge:184:TYR:CZ	2.18	0.79
2:gC:106:MET:HE3	2:gC:184:TYR:CD1	2.17	0.79
2:gI:221:PHE:CD2	2:gI:242:VAL:HG12	2.17	0.79
1:hc:99:LEU:C	2:II:197:LYS:CD	2.56	0.79
2:hx:189:LYS:HE2	5:qx:51:GLU:OE2	1.81	0.79
2:ik:107:GLY:HA2	2:ik:184:TYR:CZ	2.18	0.79
1:ir:105:THR:HG21	2:jM:60:ILE:HG21	1.65	0.79
2:iW:106:MET:HE3	2:iW:184:TYR:CD1	2.17	0.79
2:jA:52:GLN:OE1	2:jA:255:ARG:NH1	2.15	0.79
2:kF:107:GLY:HA2	2:kF:184:TYR:CZ	2.18	0.79
2:kT:107:GLY:HA2	2:kT:184:TYR:CZ	2.18	0.79
1:mH:99:LEU:C	2:os:197:LYS:CD	2.56	0.79
2:mX:36:THR:O	2:mX:175:THR:OG1	1.99	0.79
2:oH:107:GLY:HA2	2:oH:184:TYR:CZ	2.18	0.79
2:qb:221:PHE:CD2	2:qb:242:VAL:HG12	2.17	0.79
5:qx:42:PRO:HD2	6:qC:133:ASP:OD1	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qB:240:PRO:HA	5:qD:268:GLU:CD	2.07	0.79
6:qG:8:ASP:HA	6:qI:39:ARG:HH12	1.47	0.79
6:qG:11:GLU:HB3	6:qI:39:ARG:NH1	1.97	0.79
5:qJ:240:PRO:HA	5:qL:268:GLU:CD	2.08	0.79
2:aw:197:LYS:CD	1:km:99:LEU:C	2.56	0.79
2:az:104:GLN:OE1	5:qJ:31:GLU:CG	2.26	0.79
2:bn:107:GLY:HA2	2:bn:184:TYR:CZ	2.18	0.79
1:bv:99:LEU:C	2:df:197:LYS:CD	2.56	0.79
2:bA:197:LYS:CD	1:hQ:99:LEU:C	2.56	0.79
2:cq:107:GLY:HA2	2:cq:184:TYR:CZ	2.18	0.79
2:cO:106:MET:HE3	2:cO:184:TYR:CD1	2.17	0.79
2:cR:197:LYS:CD	1:eU:99:LEU:C	2.56	0.79
2:dq:36:THR:O	2:dq:175:THR:OG1	1.99	0.79
2:dV:197:LYS:CD	1:nL:99:LEU:C	2.56	0.79
1:ee:99:LEU:C	2:nC:197:LYS:CD	2.56	0.79
2:ey:107:GLY:HA2	2:ey:184:TYR:CZ	2.18	0.79
1:eB:100:LYS:CG	1:gB:100:LYS:HZ3	1.85	0.79
1:eF:105:THR:HG21	2:go:60:ILE:HG21	1.65	0.79
2:fo:107:GLY:HA2	2:fo:184:TYR:CZ	2.18	0.79
2:fq:221:PHE:CD2	2:fq:242:VAL:HG12	2.17	0.79
2:fC:107:GLY:HA2	2:fC:184:TYR:CZ	2.18	0.79
2:fO:60:ILE:HG22	1:lP:105:THR:HG21	1.57	0.79
2:gd:197:LYS:CD	1:ie:99:LEU:C	2.56	0.79
2:go:36:THR:O	2:go:175:THR:OG1	1.99	0.79
2:hh:61:GLY:O	1:mq:103:ARG:NE	2.14	0.79
1:ip:99:LEU:HD22	1:pQ:102:GLU:CB	1.98	0.79
1:kI:100:LYS:CD	1:kO:100:LYS:HZ1	1.96	0.79
2:ml:107:GLY:HA2	2:ml:184:TYR:CZ	2.18	0.79
2:nq:238:ASN:O	2:nq:242:VAL:HG23	1.82	0.79
2:nQ:61:GLY:O	1:pa:103:ARG:NE	2.14	0.79
2:nQ:197:LYS:CD	1:nZ:99:LEU:C	2.56	0.79
2:op:106:MET:HE3	2:op:184:TYR:CD1	2.17	0.79
3:qd:68:ALA:HA	4:qn:8:TYR:OH	1.83	0.79
6:qq:39:ARG:HH12	6:qM:8:ASP:HA	1.47	0.79
6:qE:8:ASP:HA	6:qG:39:ARG:HH12	1.47	0.79
5:qF:398:TRP:CE2	5:qH:405:ILE:CD1	2.66	0.79
2:ag:106:MET:HE3	2:ag:184:TYR:CD1	2.17	0.79
1:bG:103:ARG:NE	2:gr:61:GLY:O	2.14	0.79
1:bV:105:THR:HG21	2:dq:60:ILE:HG21	1.65	0.79
2:cc:107:GLY:HA2	2:cc:184:TYR:CZ	2.18	0.79
2:cE:107:GLY:HA2	2:cE:184:TYR:CZ	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:di:221:PHE:CD2	2:di:242:VAL:HG12	2.17	0.79
1:dD:100:LYS:HZ1	1:fd:100:LYS:CG	1.94	0.79
1:dN:99:LEU:HD22	1:pC:102:GLU:CB	1.98	0.79
2:ej:197:LYS:CD	1:es:99:LEU:C	2.56	0.79
1:fi:99:LEU:C	2:gF:197:LYS:CD	2.56	0.79
2:fk:60:ILE:HG21	1:nw:105:THR:HG21	1.65	0.79
2:fn:197:LYS:CD	1:nx:99:LEU:C	2.56	0.79
2:fy:106:MET:HE3	2:fy:184:TYR:CD1	2.17	0.79
2:hs:106:MET:HE3	2:hs:184:TYR:CD1	2.17	0.79
1:iD:60:ARG:CD	1:po:99:LEU:CD1	2.44	0.79
2:jk:60:ILE:HG21	1:lo:105:THR:HG21	1.65	0.79
1:jw:102:GLU:CG	1:lz:99:LEU:CD2	2.48	0.79
2:jE:221:PHE:CD2	2:jE:242:VAL:HG12	2.17	0.79
1:jY:99:LEU:C	2:lu:197:LYS:CD	2.56	0.79
2:lv:107:GLY:HA2	2:lv:184:TYR:CZ	2.18	0.79
1:mI:100:LYS:HZ3	1:ow:100:LYS:CD	1.96	0.79
3:qi:64:GLY:C	4:qn:219:ILE:HG22	2.07	0.79
6:qs:11:GLU:HB3	6:qu:39:ARG:NH1	1.97	0.79
5:qt:398:TRP:CE2	5:qv:405:ILE:CD1	2.66	0.79
6:qy:8:ASP:HA	6:qA:39:ARG:HH12	1.47	0.79
5:qB:252:LEU:CD2	6:qE:126:GLN:HG3	2.13	0.79
6:qI:65:THR:HB	6:qK:46:SER:OG	1.83	0.79
1:af:100:LYS:HZ2	1:oi:100:LYS:HG2	1.41	0.78
2:ax:107:GLY:HA2	2:ax:184:TYR:CZ	2.18	0.78
2:aV:60:ILE:HG21	1:bg:105:THR:HG21	1.65	0.78
2:bC:197:LYS:HE3	2:dI:62:GLN:CG	2.14	0.78
2:bN:61:GLY:O	1:gL:103:ARG:NE	2.14	0.78
2:cS:62:GLN:CG	2:pM:197:LYS:HE3	2.14	0.78
2:dv:197:LYS:HE3	2:kr:62:GLN:CG	2.14	0.78
2:gs:107:GLY:CA	2:gs:184:TYR:OH	2.31	0.78
2:hX:95:ASN:CB	5:qz:47:ARG:NE	2.44	0.78
2:iZ:197:LYS:CD	1:ji:99:LEU:C	2.56	0.78
2:ke:107:GLY:HA2	2:ke:184:TYR:CZ	2.18	0.78
1:lb:99:LEU:C	2:mM:197:LYS:CD	2.56	0.78
2:lh:62:GLN:CG	2:nq:197:LYS:HE3	2.14	0.78
2:IH:60:ILE:HG22	1:mT:105:THR:HG21	1.57	0.78
2:mh:60:ILE:HG21	1:ms:105:THR:HG21	1.65	0.78
1:nj:99:LEU:C	2:oG:197:LYS:CD	2.56	0.78
2:og:171:TYR:HH	2:og:175:THR:HG1	1.31	0.78
1:on:99:LEU:C	2:pY:197:LYS:CD	2.56	0.78
2:pL:107:GLY:HA2	2:pL:184:TYR:CZ	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qd:68:ALA:HB2	4:qn:8:TYR:CZ	2.18	0.78
3:qi:65:GLY:H	4:qo:10:GLN:NE2	1.75	0.78
5:qp:405:ILE:CD1	5:qL:398:TRP:CE2	2.66	0.78
6:qq:39:ARG:NH1	6:qM:11:GLU:HB3	1.97	0.78
6:qs:133:ASP:OD1	5:qL:42:PRO:HD2	1.83	0.78
5:qB:398:TRP:CE2	5:qD:405:ILE:CD1	2.66	0.78
6:qC:11:GLU:HB3	6:qE:39:ARG:NH1	1.97	0.78
6:qE:65:THR:HB	6:qG:46:SER:OG	1.83	0.78
5:qF:42:PRO:HD2	6:qK:133:ASP:OD1	1.83	0.78
2:ax:107:GLY:CA	2:ax:184:TYR:OH	2.31	0.78
2:aJ:52:GLN:OE1	2:aJ:255:ARG:NH1	2.15	0.78
2:aZ:107:GLY:CA	2:aZ:184:TYR:OH	2.31	0.78
1:bU:99:LEU:CA	2:eY:197:LYS:HZ1	1.94	0.78
2:dh:238:ASN:O	2:dh:242:VAL:HG23	1.82	0.78
2:dH:197:LYS:CD	1:pd:99:LEU:C	2.56	0.78
2:dI:107:GLY:CA	2:dI:184:TYR:OH	2.31	0.78
2:dS:106:MET:HE3	2:dS:184:TYR:CD1	2.17	0.78
1:ff:103:ARG:NE	2:ij:61:GLY:O	2.14	0.78
2:fO:85:GLY:O	2:hi:2:ALA:N	2.17	0.78
2:gf:197:LYS:CE	2:mz:62:GLN:CG	2.62	0.78
2:gs:107:GLY:HA2	2:gs:184:TYR:CZ	2.18	0.78
2:gG:107:GLY:HA2	2:gG:184:TYR:CZ	2.18	0.78
2:gU:107:GLY:HA2	2:gU:184:TYR:CZ	2.18	0.78
2:iu:106:MET:HE3	2:iu:184:TYR:CD1	2.17	0.78
2:jb:238:ASN:O	2:jb:242:VAL:HG23	1.82	0.78
2:jo:107:GLY:HA2	2:jo:184:TYR:CZ	2.18	0.78
1:jX:105:THR:HG21	2:lr:60:ILE:HG21	1.65	0.78
2:kB:60:ILE:HG21	1:kM:105:THR:HG21	1.65	0.78
2:kE:197:LYS:CD	1:kN:99:LEU:C	2.56	0.78
2:oD:106:MET:HE3	2:oD:184:TYR:CD1	2.17	0.78
2:px:107:GLY:HA2	2:px:184:TYR:CZ	2.18	0.78
3:qe:67:ARG:H	4:qm:194:LEU:HD12	0.96	0.78
3:qh:61:ASP:O	4:qj:33:SER:CB	2.31	0.78
5:qv:398:TRP:CE2	5:qx:405:ILE:CD1	2.66	0.78
5:qH:42:PRO:HD2	6:qM:133:ASP:OD1	1.83	0.78
2:ax:62:GLN:CG	2:gt:197:LYS:CE	2.62	0.78
2:aM:197:LYS:HE3	2:nb:62:GLN:CG	2.14	0.78
1:aT:99:LEU:C	2:iL:197:LYS:CD	2.56	0.78
2:bm:197:LYS:CD	1:do:99:LEU:C	2.56	0.78
2:cc:62:GLN:CG	2:hX:197:LYS:CE	2.62	0.78
2:cd:238:ASN:O	2:cd:242:VAL:HG23	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cp:197:LYS:CD	1:pr:99:LEU:C	2.56	0.78
2:cS:107:GLY:HA2	2:cS:184:TYR:CZ	2.18	0.78
2:dE:60:ILE:HG21	1:pc:105:THR:HG21	1.65	0.78
2:dI:107:GLY:HA2	2:dI:184:TYR:CZ	2.18	0.78
2:dW:62:GLN:CG	2:jR:197:LYS:CE	2.62	0.78
2:dW:62:GLN:CG	2:jR:197:LYS:HE3	2.14	0.78
2:dW:107:GLY:HA2	2:dW:184:TYR:CZ	2.18	0.78
2:ek:2:ALA:N	2:od:85:GLY:O	2.17	0.78
2:ex:197:LYS:CD	1:gA:99:LEU:C	2.56	0.78
2:eM:107:GLY:CA	2:eM:184:TYR:OH	2.31	0.78
2:fa:62:GLN:CG	2:iN:197:LYS:CE	2.62	0.78
2:fa:107:GLY:CA	2:fa:184:TYR:OH	2.31	0.78
2:fm:60:ILE:HG22	1:gy:105:THR:HG21	1.57	0.78
1:ft:99:LEU:CD1	1:nW:60:ARG:CD	2.44	0.78
2:gg:221:PHE:CD2	2:gg:242:VAL:HG12	2.17	0.78
1:gl:105:THR:HG21	2:hS:60:ILE:HG21	1.65	0.78
2:he:60:ILE:HG21	1:ky:105:THR:HG21	1.65	0.78
2:hF:92:GLU:OE2	5:qx:178:PRO:CD	2.31	0.78
2:hJ:197:LYS:CE	2:kT:62:GLN:CG	2.62	0.78
2:hS:106:MET:HE3	2:hS:184:TYR:CD1	2.17	0.78
1:is:99:LEU:C	2:jP:197:LYS:CD	2.56	0.78
2:jB:197:LYS:CD	1:pT:99:LEU:C	2.56	0.78
2:jC:107:GLY:HA2	2:jC:184:TYR:CZ	2.18	0.78
2:ke:62:GLN:CG	2:qa:197:LYS:CE	2.62	0.78
2:kr:107:GLY:CA	2:kr:184:TYR:OH	2.31	0.78
1:la:105:THR:HG21	2:mJ:60:ILE:HG21	1.65	0.78
1:lD:99:LEU:C	2:na:197:LYS:CD	2.56	0.78
1:md:105:THR:HG21	2:mx:60:ILE:HG22	1.57	0.78
2:mj:85:GLY:O	2:nD:2:ALA:N	2.17	0.78
3:qd:25:LEU:HD11	6:qu:82:VAL:H	1.46	0.78
3:qg:65:GLY:N	4:qk:10:GLN:CD	2.41	0.78
5:qx:398:TRP:CE2	5:qz:405:ILE:CD1	2.66	0.78
5:qz:42:PRO:HD2	6:qE:133:ASP:OD1	1.82	0.78
1:ab:99:LEU:CD1	1:ng:60:ARG:CD	2.44	0.78
2:ak:107:GLY:HA2	2:ak:184:TYR:CZ	2.18	0.78
2:al:197:LYS:CE	2:fC:62:GLN:CG	2.62	0.78
2:aH:60:ILE:HG21	1:iT:105:THR:HG21	1.65	0.78
2:aL:2:ALA:N	2:ht:85:GLY:O	2.17	0.78
2:aL:107:GLY:HA2	2:aL:184:TYR:CZ	2.18	0.78
2:aY:197:LYS:CD	1:bh:99:LEU:C	2.56	0.78
2:cr:197:LYS:HE3	2:lv:62:GLN:CG	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cE:62:GLN:CG	2:nS:197:LYS:CE	2.62	0.78
2:du:62:GLN:CG	2:ks:197:LYS:CE	2.62	0.78
1:dQ:99:LEU:C	2:oU:197:LYS:CD	2.56	0.78
2:ey:62:GLN:CG	2:og:197:LYS:CE	2.62	0.78
2:eM:62:GLN:CG	2:gV:197:LYS:HE3	2.14	0.78
1:fw:99:LEU:C	2:no:197:LYS:CD	2.56	0.78
2:fy:60:ILE:HG21	1:me:105:THR:HG21	1.65	0.78
2:fQ:107:GLY:CA	2:fQ:184:TYR:OH	2.31	0.78
2:gs:2:ALA:N	2:gS:85:GLY:O	2.17	0.78
2:gT:86:VAL:HG11	2:gT:102:LEU:HD11	1.66	0.78
1:hd:100:LYS:HZ1	1:lM:100:LYS:CD	1.95	0.78
2:hi:107:GLY:CA	2:hi:184:TYR:OH	2.31	0.78
2:hj:197:LYS:CE	2:oH:62:GLN:CG	2.62	0.78
2:hj:197:LYS:HE3	2:oH:62:GLN:CG	2.14	0.78
2:hv:62:GLN:CG	2:jb:197:LYS:HE3	2.14	0.78
1:jK:99:LEU:C	2:pK:197:LYS:CD	2.56	0.78
2:ke:62:GLN:CG	2:qa:197:LYS:HE3	2.14	0.78
2:kt:108:ARG:CA	5:qD:178:PRO:CG	2.59	0.78
2:kt:111:GLY:H	5:qD:178:PRO:HD3	1.37	0.78
2:lj:62:GLN:CD	1:lz:103:ARG:O	2.27	0.78
2:mK:197:LYS:CD	1:mt:99:LEU:C	2.56	0.78
2:mN:2:ALA:N	2:nn:85:GLY:O	2.17	0.78
2:mN:62:GLN:CG	2:oW:197:LYS:HE3	2.14	0.78
2:nb:107:GLY:HA2	2:nb:184:TYR:CZ	2.18	0.78
2:pK:86:VAL:HG11	2:pK:102:LEU:HD11	1.66	0.78
2:pM:171:TYR:HH	2:pM:175:THR:HG1	1.28	0.78
2:pZ:107:GLY:HA2	2:pZ:184:TYR:CZ	2.18	0.78
3:qf:61:ASP:O	4:ql:33:SER:CB	2.31	0.78
5:qp:42:PRO:HD2	6:qu:133:ASP:OD1	1.83	0.78
6:qq:133:ASP:OD1	5:qJ:42:PRO:HD2	1.83	0.78
5:qv:252:LEU:CD2	6:qy:126:GLN:HG3	2.13	0.78
5:qx:252:LEU:CD2	6:qA:126:GLN:HG3	2.13	0.78
5:qD:42:PRO:HD2	6:qI:133:ASP:OD1	1.82	0.78
2:ax:2:ALA:N	2:ds:85:GLY:O	2.17	0.78
2:ay:197:LYS:HE3	2:gs:62:GLN:CG	2.14	0.78
1:aF:99:LEU:C	2:kd:197:LYS:CD	2.56	0.78
2:bC:197:LYS:CE	2:dI:62:GLN:CG	2.61	0.78
2:bN:86:VAL:HG11	2:bN:102:LEU:HD11	1.66	0.78
2:cb:197:LYS:CD	1:iG:99:LEU:C	2.56	0.78
2:cr:197:LYS:CE	2:lv:62:GLN:CG	2.62	0.78
1:cy:99:LEU:C	2:pi:197:LYS:CD	2.56	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cA:60:ILE:HG21	1:cL:105:THR:HG21	1.65	0.78
1:cI:103:ARG:O	2:pz:62:GLN:CD	2.27	0.78
1:dD:100:LYS:HZ1	1:fd:100:LYS:CD	1.95	0.78
1:dO:105:THR:HG21	2:nP:60:ILE:HG22	1.57	0.78
2:em:62:GLN:CD	1:nV:103:ARG:O	2.27	0.78
2:eM:107:GLY:HA2	2:eM:184:TYR:CZ	2.18	0.78
2:fa:62:GLN:CG	2:iN:197:LYS:HE3	2.14	0.78
2:ge:62:GLN:CG	2:mA:197:LYS:CE	2.61	0.78
2:go:106:MET:HE3	2:go:184:TYR:CD1	2.17	0.78
1:hb:105:THR:HG21	2:lF:60:ILE:HG21	1.65	0.78
2:hw:197:LYS:CE	2:ja:62:GLN:CG	2.62	0.78
2:il:197:LYS:CE	2:nD:62:GLN:CG	2.62	0.78
2:iy:62:GLN:CG	2:ou:197:LYS:CE	2.62	0.78
2:iA:62:GLN:CD	1:ll:103:ARG:O	2.27	0.78
2:iM:107:GLY:CA	2:iM:184:TYR:OH	2.31	0.78
2:iW:60:ILE:HG21	1:jh:105:THR:HG21	1.65	0.78
2:jQ:107:GLY:CA	2:jQ:184:TYR:OH	2.31	0.78
2:lv:2:ALA:N	2:pX:85:GLY:O	2.17	0.78
2:mz:107:GLY:CA	2:mz:184:TYR:OH	2.31	0.78
2:mB:221:PHE:CD2	2:mB:242:VAL:HG12	2.17	0.78
2:np:107:GLY:CA	2:np:184:TYR:OH	2.31	0.78
2:nR:107:GLY:CA	2:nR:184:TYR:OH	2.31	0.78
2:oV:107:GLY:CA	2:oV:184:TYR:OH	2.31	0.78
2:pt:60:ILE:HG21	1:pE:105:THR:HG21	1.65	0.78
1:pA:100:LYS:CG	1:pG:100:LYS:NZ	2.40	0.78
3:qd:84:TYR:CZ	6:qs:20:GLU:OE2	2.35	0.78
6:qu:11:GLU:HB3	6:qw:39:ARG:NH1	1.97	0.78
6:qu:65:THR:HB	6:qw:46:SER:OG	1.83	0.78
6:qC:65:THR:HB	6:qE:46:SER:OG	1.83	0.78
6:qG:65:THR:HB	6:qI:46:SER:OG	1.83	0.78
2:aj:86:VAL:HG11	2:aj:102:LEU:HD11	1.66	0.78
2:aM:197:LYS:CE	2:nb:62:GLN:CG	2.62	0.78
2:bn:2:ALA:N	2:kp:85:GLY:O	2.17	0.78
2:bp:62:GLN:CD	1:ki:103:ARG:O	2.27	0.78
2:bz:60:ILE:HG22	1:cY:105:THR:HG21	1.57	0.78
2:bB:62:GLN:CG	2:dJ:197:LYS:HE3	2.14	0.78
2:bO:2:ALA:N	2:gq:85:GLY:O	2.17	0.78
2:cb:86:VAL:HG11	2:cb:102:LEU:HD11	1.66	0.78
2:cd:197:LYS:HE3	2:hW:62:GLN:CG	2.14	0.78
2:cO:60:ILE:HG21	1:eT:105:THR:HG21	1.65	0.78
2:cQ:85:GLY:O	2:px:2:ALA:N	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cS:62:GLN:CG	2:pM:197:LYS:CE	2.62	0.78
2:de:85:GLY:O	2:gG:2:ALA:N	2.17	0.78
2:dg:62:GLN:CG	2:fp:197:LYS:HE3	2.14	0.78
2:du:107:GLY:CA	2:du:184:TYR:OH	2.31	0.78
2:ek:107:GLY:CA	2:ek:184:TYR:OH	2.31	0.78
2:el:197:LYS:HE3	2:ml:62:GLN:CG	2.14	0.78
2:ez:197:LYS:HE3	2:of:62:GLN:CG	2.14	0.78
2:eN:197:LYS:CE	2:gU:62:GLN:CG	2.62	0.78
2:fb:197:LYS:CE	2:iM:62:GLN:CG	2.62	0.78
2:gG:107:GLY:CA	2:gG:184:TYR:OH	2.31	0.78
2:hg:85:GLY:O	2:mz:2:ALA:N	2.17	0.78
2:hV:86:VAL:HG11	2:hV:102:LEU:HD11	1.66	0.78
2:ik:62:GLN:CG	2:nE:197:LYS:HE3	2.14	0.78
2:iz:197:LYS:HE3	2:ot:62:GLN:CG	2.14	0.78
2:jA:85:GLY:O	2:nb:2:ALA:N	2.17	0.78
2:jO:85:GLY:O	2:oV:2:ALA:N	2.17	0.78
2:kf:197:LYS:HE3	2:pZ:62:GLN:CG	2.14	0.78
2:kD:63:ARG:NE	2:kG:205:MET:SD	2.57	0.78
2:kD:85:GLY:O	2:lX:2:ALA:N	2.17	0.78
2:lg:86:VAL:HG11	2:lg:102:LEU:HD11	1.66	0.78
2:lu:86:VAL:HG11	2:lu:102:LEU:HD11	1.66	0.78
2:mJ:106:MET:HE3	2:mJ:184:TYR:CD1	2.17	0.78
2:np:107:GLY:HA2	2:np:184:TYR:CZ	2.18	0.78
2:nE:171:TYR:HH	2:nE:175:THR:HG1	1.29	0.78
2:nR:107:GLY:HA2	2:nR:184:TYR:CZ	2.18	0.78
1:nU:100:LYS:CD	1:oa:100:LYS:HZ1	1.95	0.78
2:ot:2:ALA:N	2:oT:85:GLY:O	2.17	0.78
2:ot:107:GLY:HA2	2:ot:184:TYR:CZ	2.18	0.78
2:pL:107:GLY:CA	2:pL:184:TYR:OH	2.31	0.78
3:qd:66:GLN:CA	4:qn:8:TYR:O	2.32	0.78
6:qq:65:THR:HB	6:qs:46:SER:OG	1.83	0.78
5:qF:240:PRO:HA	5:qH:268:GLU:CD	2.08	0.78
6:qK:65:THR:HB	6:qM:46:SER:OG	1.83	0.78
2:ai:85:GLY:O	2:np:2:ALA:N	2.17	0.78
2:au:60:ILE:HG21	1:kl:105:THR:HG21	1.65	0.78
2:au:181:PRO:CB	5:qL:31:GLU:HG2	2.13	0.78
2:aJ:63:ARG:NE	2:aM:205:MET:SD	2.57	0.78
2:aX:85:GLY:O	2:cq:2:ALA:N	2.17	0.78
2:aZ:62:GLN:CG	2:py:197:LYS:CE	2.62	0.78
2:bD:62:GLN:CD	1:bS:103:ARG:O	2.27	0.78
2:bP:197:LYS:CE	2:lX:62:GLN:CG	2.61	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bQ:62:GLN:CD	1:gi:103:ARG:O	2.27	0.78
1:bU:105:THR:HG21	2:iK:60:ILE:HG22	1.57	0.78
2:df:83:THR:OG1	2:df:205:MET:SD	2.42	0.78
2:dg:62:GLN:CG	2:fp:197:LYS:CE	2.62	0.78
2:dg:107:GLY:HA2	2:dg:184:TYR:CZ	2.18	0.78
2:du:107:GLY:HA2	2:du:184:TYR:CZ	2.18	0.78
1:dN:99:LEU:CD1	1:pC:60:ARG:CD	2.44	0.78
1:fs:103:ARG:O	2:oh:62:GLN:CD	2.27	0.78
2:fM:60:ILE:HG21	1:fX:105:THR:HG21	1.65	0.78
2:fQ:2:ALA:N	2:mx:85:GLY:O	2.17	0.78
2:gG:62:GLN:CG	2:pk:197:LYS:HE3	2.14	0.78
2:gG:62:GLN:CG	2:pk:197:LYS:CE	2.62	0.78
1:gO:99:LEU:C	2:ij:197:LYS:CD	2.56	0.78
2:hG:85:GLY:O	2:kF:2:ALA:N	2.17	0.78
2:hI:62:GLN:CG	2:kU:197:LYS:HE3	2.14	0.78
2:hJ:197:LYS:HE3	2:kT:62:GLN:CG	2.14	0.78
2:hK:182:LEU:O	5:qt:178:PRO:HA	1.84	0.78
2:iy:62:GLN:CG	2:ou:197:LYS:HE3	2.14	0.78
2:iy:107:GLY:CA	2:iy:184:TYR:OH	2.31	0.78
2:iz:197:LYS:CE	2:ot:62:GLN:CG	2.61	0.78
2:iM:2:ALA:N	2:pv:85:GLY:O	2.17	0.78
2:jo:107:GLY:CA	2:jo:184:TYR:OH	2.31	0.78
2:jC:107:GLY:CA	2:jC:184:TYR:OH	2.31	0.78
2:ko:104:GLN:NE2	5:qH:27:GLY:N	2.32	0.78
2:li:197:LYS:CE	2:np:62:GLN:CG	2.62	0.78
2:pw:197:LYS:CD	1:pF:99:LEU:C	2.56	0.78
5:qp:245:ASP:OD2	6:qs:121:VAL:HG21	1.83	0.78
5:qr:240:PRO:HA	5:qt:268:GLU:CD	2.08	0.78
5:qz:252:LEU:CD2	6:qC:126:GLN:HG3	2.13	0.78
5:qH:392:LEU:CD1	5:qJ:400:TYR:OH	2.28	0.78
6:qI:11:GLU:HB3	6:qK:39:ARG:NH1	1.97	0.78
6:qK:11:GLU:HB3	6:qM:39:ARG:NH1	1.97	0.78
2:aZ:2:ALA:N	2:jm:85:GLY:O	2.17	0.78
2:bb:62:GLN:CD	1:je:103:ARG:O	2.27	0.78
2:bl:85:GLY:O	2:ja:2:ALA:N	2.17	0.78
2:bB:107:GLY:HA2	2:bB:184:TYR:CZ	2.18	0.78
2:ce:62:GLN:CD	1:eQ:103:ARG:O	2.27	0.78
1:cv:99:LEU:HD22	1:dN:102:GLU:CB	1.98	0.78
2:cU:62:GLN:CD	1:iC:103:ARG:O	2.27	0.78
1:dB:105:THR:HG21	2:eW:60:ILE:HG21	1.65	0.78
2:dI:2:ALA:N	2:gE:85:GLY:O	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dM:103:ARG:O	2:pN:62:GLN:CD	2.27	0.78
1:dP:105:THR:HG21	2:oR:60:ILE:HG21	1.65	0.78
2:eu:60:ILE:HG21	1:gz:105:THR:HG21	1.65	0.78
2:eu:106:MET:HE3	2:eu:184:TYR:CD1	2.17	0.78
2:eL:86:VAL:HG11	2:eL:102:LEU:HD11	1.66	0.78
1:fj:100:LYS:HZ1	1:gJ:100:LYS:CD	1.97	0.78
1:fL:100:LYS:HZ1	1:ma:100:LYS:CD	1.95	0.78
2:fP:197:LYS:CD	1:fY:99:LEU:C	2.56	0.78
2:ge:2:ALA:N	2:nB:85:GLY:O	2.17	0.78
1:gm:99:LEU:C	2:hV:197:LYS:CD	2.56	0.78
1:hZ:103:ARG:O	2:kH:62:GLN:CD	2.27	0.78
2:hW:107:GLY:CA	2:hW:184:TYR:OH	2.31	0.78
1:io:103:ARG:O	2:qb:62:GLN:CD	2.27	0.78
2:ja:107:GLY:HA2	2:ja:184:TYR:CZ	2.18	0.78
2:jD:197:LYS:HE3	2:lJ:62:GLN:CG	2.14	0.78
2:jQ:107:GLY:HA2	2:jQ:184:TYR:CZ	2.18	0.78
2:kF:107:GLY:CA	2:kF:184:TYR:OH	2.31	0.78
2:lh:107:GLY:CA	2:lh:184:TYR:OH	2.31	0.78
2:my:197:LYS:CD	1:oB:99:LEU:C	2.56	0.78
3:qf:66:GLN:CG	4:ql:194:LEU:H	1.94	0.78
6:qw:65:THR:HB	6:qy:46:SER:OG	1.83	0.78
6:qA:8:ASP:HA	6:qC:39:ARG:HH12	1.48	0.78
5:qH:398:TRP:CE2	5:qJ:405:ILE:CD1	2.66	0.78
2:ak:2:ALA:N	2:mL:85:GLY:O	2.17	0.78
2:ak:62:GLN:CG	2:fD:197:LYS:CE	2.62	0.78
2:av:85:GLY:O	2:hW:2:ALA:N	2.17	0.78
2:aK:197:LYS:CD	1:iU:99:LEU:C	2.56	0.78
2:bj:60:ILE:HG21	1:dn:105:THR:HG21	1.65	0.78
2:bo:197:LYS:HE3	2:jo:62:GLN:CG	2.14	0.78
1:br:103:ARG:O	2:fc:62:GLN:CD	2.27	0.78
2:bQ:103:MET:HE1	5:qp:174:ARG:HE	1.47	0.78
2:cC:85:GLY:O	2:dW:2:ALA:N	2.17	0.78
2:dh:197:LYS:HE3	2:fo:62:GLN:CG	2.14	0.78
2:di:62:GLN:CD	1:dy:103:ARG:O	2.27	0.78
2:dW:107:GLY:CA	2:dW:184:TYR:OH	2.31	0.78
2:ey:62:GLN:CG	2:og:197:LYS:HE3	2.14	0.78
2:ey:107:GLY:CA	2:ey:184:TYR:OH	2.31	0.78
2:eK:85:GLY:O	2:ik:2:ALA:N	2.17	0.78
2:eM:2:ALA:N	2:fm:85:GLY:O	2.17	0.78
2:eZ:86:VAL:HG11	2:eZ:102:LEU:HD11	1.66	0.78
1:fh:105:THR:HG21	2:gC:60:ILE:HG21	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fo:2:ALA:N	2:ii:85:GLY:O	2.17	0.78
1:fu:103:ARG:O	2:mn:62:GLN:CD	2.27	0.78
2:gc:85:GLY:O	2:ml:2:ALA:N	2.17	0.78
2:ge:107:GLY:CA	2:ge:184:TYR:OH	2.31	0.78
2:gQ:60:ILE:HG21	1:lQ:105:THR:HG21	1.65	0.78
2:gU:107:GLY:CA	2:gU:184:TYR:OH	2.31	0.78
2:hi:62:GLN:CG	2:oi:197:LYS:HE3	2.14	0.78
2:hi:62:GLN:CG	2:oi:197:LYS:CE	2.62	0.78
2:hv:107:GLY:HA2	2:hv:184:TYR:CZ	2.18	0.78
2:ix:83:THR:OG1	2:ix:205:MET:SD	2.42	0.78
2:jC:2:ALA:N	2:kc:85:GLY:O	2.17	0.78
2:ko:106:MET:HE3	2:ko:184:TYR:CD1	2.17	0.78
2:kp:63:ARG:NE	2:ks:205:MET:SD	2.57	0.78
2:lf:85:GLY:O	2:oH:2:ALA:N	2.17	0.78
2:IJ:2:ALA:N	2:oF:85:GLY:O	2.17	0.78
2:IJ:107:GLY:HA2	2:IJ:184:TYR:CZ	2.18	0.78
2:mN:107:GLY:HA2	2:mN:184:TYR:CZ	2.18	0.78
2:ot:107:GLY:CA	2:ot:184:TYR:OH	2.31	0.78
2:pj:107:GLY:HA2	2:pj:184:TYR:CZ	2.18	0.78
6:qs:8:ASP:HA	6:qu:39:ARG:HH12	1.47	0.78
5:qz:398:TRP:CE2	5:qB:405:ILE:CD1	2.66	0.78
5:qF:96:ARG:CD	5:qH:114:LEU:HD23	2.11	0.78
5:qJ:398:TRP:CE2	5:qL:405:ILE:CD1	2.66	0.78
2:ax:62:GLN:CG	2:gt:197:LYS:HE3	2.14	0.78
2:cq:62:GLN:CG	2:lw:197:LYS:HE3	2.14	0.78
2:cE:2:ALA:N	2:pJ:85:GLY:O	2.17	0.78
2:cF:197:LYS:HE3	2:nR:62:GLN:CG	2.14	0.78
2:dw:62:GLN:CD	1:hM:103:ARG:O	2.27	0.78
2:dH:86:VAL:HG11	2:dH:102:LEU:HD11	1.66	0.78
2:dU:85:GLY:O	2:pL:2:ALA:N	2.17	0.78
2:el:197:LYS:CE	2:ml:62:GLN:CG	2.62	0.78
2:fq:62:GLN:CD	1:ia:103:ARG:O	2.27	0.78
2:hx:96:LEU:HD13	5:qz:47:ARG:HD2	1.66	0.78
2:ix:86:VAL:HG11	2:ix:102:LEU:HD11	1.66	0.78
2:iZ:83:THR:OG1	2:iZ:205:MET:SD	2.42	0.78
2:jC:62:GLN:CG	2:IK:197:LYS:CE	2.62	0.78
2:jQ:2:ALA:N	2:or:85:GLY:O	2.17	0.78
2:jS:62:GLN:CD	1:oj:103:ARG:O	2.27	0.78
2:ke:2:ALA:N	2:mZ:85:GLY:O	2.17	0.78
2:ko:36:THR:O	2:ko:175:THR:OG1	1.99	0.78
2:ko:182:LEU:HD21	5:qF:165:PRO:HB3	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lh:2:ALA:N	2:IH:85:GLY:O	2.17	0.78
2:IX:107:GLY:CA	2:IX:184:TYR:OH	2.31	0.78
2:nD:107:GLY:CA	2:nD:184:TYR:OH	2.31	0.78
2:of:107:GLY:CA	2:of:184:TYR:OH	2.31	0.78
2:oV:107:GLY:HA2	2:oV:184:TYR:CZ	2.18	0.78
2:px:107:GLY:CA	2:px:184:TYR:OH	2.31	0.78
6:qq:46:SER:OG	6:qM:65:THR:HB	1.83	0.78
5:qB:392:LEU:CD1	5:qD:400:TYR:OH	2.28	0.78
2:al:197:LYS:HE3	2:fC:62:GLN:CG	2.14	0.77
2:aJ:197:LYS:HZ2	1:kL:99:LEU:C	1.91	0.77
2:bn:62:GLN:CG	2:jp:197:LYS:CE	2.62	0.77
1:bw:100:LYS:HZ3	1:dj:100:LYS:CD	1.96	0.77
1:bX:100:LYS:NZ	1:dx:100:LYS:CG	2.40	0.77
2:cd:197:LYS:CE	2:hW:62:GLN:CG	2.62	0.77
2:cE:107:GLY:CA	2:cE:184:TYR:OH	2.31	0.77
2:cS:107:GLY:CA	2:cS:184:TYR:OH	2.31	0.77
2:cT:197:LYS:CE	2:pL:62:GLN:CG	2.62	0.77
2:dg:2:ALA:N	2:dG:85:GLY:O	2.17	0.77
2:dv:238:ASN:O	2:dv:242:VAL:HG23	1.82	0.77
2:dK:62:GLN:CD	1:gw:103:ARG:O	2.27	0.77
2:ey:2:ALA:N	2:ph:85:GLY:O	2.17	0.77
2:eO:62:GLN:CD	1:fe:103:ARG:O	2.27	0.77
2:fa:107:GLY:HA2	2:fa:184:TYR:CZ	2.18	0.77
2:fQ:62:GLN:CG	2:kG:197:LYS:HE3	2.14	0.77
2:fS:62:GLN:CD	1:mp:103:ARG:O	2.27	0.77
2:gH:197:LYS:CE	2:pj:62:GLN:CG	2.62	0.77
2:gS:63:ARG:NE	2:gV:205:MET:SD	2.57	0.77
2:hI:62:GLN:CG	2:kU:197:LYS:CE	2.62	0.77
2:hK:62:GLN:CD	1:lN:103:ARG:O	2.27	0.77
2:ik:62:GLN:CG	2:nE:197:LYS:CE	2.62	0.77
1:jG:103:ARG:O	2:oX:62:GLN:CD	2.27	0.77
2:kf:197:LYS:CE	2:pZ:62:GLN:CG	2.62	0.77
2:kP:60:ILE:HG21	1:mU:105:THR:HG21	1.65	0.77
2:lH:63:ARG:NE	2:lK:205:MET:SD	2.57	0.77
2:mO:197:LYS:HE3	2:oV:62:GLN:CG	2.14	0.77
2:oH:107:GLY:CA	2:oH:184:TYR:OH	2.31	0.77
4:qj:189:TYR:HD2	4:qo:218:LEU:HD13	1.49	0.77
6:qq:121:VAL:HG21	5:qL:245:ASP:OD2	1.84	0.77
6:qw:11:GLU:HB3	6:qy:39:ARG:NH1	1.97	0.77
2:aY:86:VAL:HG11	2:aY:102:LEU:HD11	1.66	0.77
2:bo:197:LYS:CE	2:jo:62:GLN:CG	2.62	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bz:63:ARG:NE	2:bC:205:MET:SD	2.57	0.77
2:bD:174:ASP:OD1	2:bD:214:ARG:NH2	2.18	0.77
2:ca:63:ARG:NE	2:cd:205:MET:SD	2.57	0.77
2:cc:62:GLN:CG	2:hX:197:LYS:HE3	2.14	0.77
2:co:63:ARG:NE	2:cr:205:MET:SD	2.57	0.77
2:cq:62:GLN:CG	2:lw:197:LYS:CE	2.62	0.77
2:cD:83:THR:OG1	2:cD:205:MET:SD	2.42	0.77
2:cT:197:LYS:HE3	2:pL:62:GLN:CG	2.14	0.77
2:dv:197:LYS:CE	2:kr:62:GLN:CG	2.62	0.77
1:ea:103:ARG:O	2:fE:62:GLN:CD	2.27	0.77
2:fB:86:VAL:HG11	2:fB:102:LEU:HD11	1.66	0.77
2:fP:86:VAL:HG11	2:fP:102:LEU:HD11	1.66	0.77
2:fR:197:LYS:CE	2:kF:62:GLN:CG	2.62	0.77
2:gg:62:GLN:CD	1:nt:103:ARG:O	2.27	0.77
1:gh:100:LYS:CD	1:if:100:LYS:HZ1	1.97	0.77
2:hv:62:GLN:CG	2:jb:197:LYS:CE	2.62	0.77
2:hx:96:LEU:O	5:qz:51:GLU:CD	2.26	0.77
1:hE:69:ALA:HB1	6:qC:59:PRO:HB2	1.65	0.77
2:hG:63:ARG:NE	2:hJ:205:MET:SD	2.57	0.77
2:hI:107:GLY:HA2	2:hI:184:TYR:CZ	2.18	0.77
2:hW:107:GLY:HA2	2:hW:184:TYR:CZ	2.18	0.77
2:il:197:LYS:HE3	2:nD:62:GLN:CG	2.14	0.77
2:iY:63:ARG:NE	2:jb:205:MET:SD	2.57	0.77
2:ko:36:THR:CB	5:qF:176:ASN:ND2	2.46	0.77
2:kr:107:GLY:HA2	2:kr:184:TYR:CZ	2.18	0.77
2:lh:62:GLN:CG	2:nq:197:LYS:CE	2.62	0.77
1:mo:100:LYS:CD	1:mu:100:LYS:HZ1	1.97	0.77
2:mL:63:ARG:NE	2:mO:205:MET:SD	2.57	0.77
2:mN:107:GLY:CA	2:mN:184:TYR:OH	2.31	0.77
1:nH:103:ARG:O	2:pl:62:GLN:CD	2.27	0.77
2:os:86:VAL:HG11	2:os:102:LEU:HD11	1.66	0.77
2:oG:86:VAL:HG11	2:oG:102:LEU:HD11	1.66	0.77
2:pl:174:ASP:OD1	2:pl:214:ARG:NH2	2.18	0.77
2:pN:174:ASP:OD1	2:pN:214:ARG:NH2	2.18	0.77
3:qd:55:GLU:CB	4:qn:223:ASN:ND2	2.46	0.77
3:qg:66:GLN:O	4:qk:10:GLN:NE2	2.16	0.77
3:qi:66:GLN:N	4:qo:9:GLY:C	2.40	0.77
5:qp:53:GLU:OE2	5:qr:35:HIS:HE1	1.66	0.77
5:qv:245:ASP:OD2	6:qy:121:VAL:HG21	1.84	0.77
5:qx:245:ASP:OD2	6:qA:121:VAL:HG21	1.84	0.77
5:qF:252:LEU:CD2	6:qI:126:GLN:HG3	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aj:83:THR:OG1	2:aj:205:MET:SD	2.42	0.77
2:az:174:ASP:OD1	2:az:214:ARG:NH2	2.18	0.77
2:aL:62:GLN:CG	2:nc:197:LYS:HE3	2.14	0.77
1:bd:103:ARG:O	2:jc:62:GLN:CD	2.27	0.77
2:bA:83:THR:OG1	2:bA:205:MET:SD	2.42	0.77
2:bP:197:LYS:HE3	2:lX:62:GLN:CG	2.14	0.77
2:cQ:63:ARG:NE	2:cT:205:MET:SD	2.57	0.77
2:dS:60:ILE:HG21	1:nK:105:THR:HG21	1.65	0.77
2:eg:60:ILE:HG21	1:er:105:THR:HG21	1.65	0.77
2:eO:174:ASP:OD1	2:eO:214:ARG:NH2	2.18	0.77
2:hi:107:GLY:HA2	2:hi:184:TYR:CZ	2.18	0.77
1:hq:99:LEU:C	2:kq:197:LYS:CD	2.56	0.77
2:hv:107:GLY:CA	2:hv:184:TYR:OH	2.31	0.77
2:hw:197:LYS:HE3	2:ja:62:GLN:CG	2.14	0.77
2:hI:107:GLY:CA	2:hI:184:TYR:OH	2.31	0.77
2:hV:83:THR:OG1	2:hV:205:MET:SD	2.42	0.77
2:hY:174:ASP:OD1	2:hY:214:ARG:NH2	2.18	0.77
2:iw:63:ARG:NE	2:iz:205:MET:SD	2.57	0.77
2:iO:62:GLN:CD	1:pn:103:ARG:O	2.27	0.77
2:jc:174:ASP:OD1	2:jc:214:ARG:NH2	2.18	0.77
2:ke:107:GLY:CA	2:ke:184:TYR:OH	2.31	0.77
2:lh:107:GLY:HA2	2:lh:184:TYR:CZ	2.18	0.77
1:lC:105:THR:HG21	2:mX:60:ILE:HG21	1.65	0.77
2:lJ:107:GLY:CA	2:lJ:184:TYR:OH	2.31	0.77
2:mn:174:ASP:OD1	2:mn:214:ARG:NH2	2.18	0.77
2:nP:85:GLY:O	2:pj:2:ALA:N	2.17	0.77
2:of:107:GLY:HA2	2:of:184:TYR:CZ	2.18	0.77
6:qu:8:ASP:HA	6:qw:39:ARG:HH12	1.47	0.77
5:qJ:252:LEU:CD2	6:qM:126:GLN:HG3	2.13	0.77
2:ag:60:ILE:HG21	1:oO:105:THR:HG21	1.65	0.77
2:ai:63:ARG:NE	2:al:205:MET:SD	2.57	0.77
2:am:62:GLN:CD	1:mD:103:ARG:O	2.27	0.77
2:am:174:ASP:OD1	2:am:214:ARG:NH2	2.18	0.77
2:aK:86:VAL:HG11	2:aK:102:LEU:HD11	1.65	0.77
2:aL:62:GLN:CG	2:nc:197:LYS:CE	2.62	0.77
2:bz:85:GLY:O	2:fa:2:ALA:N	2.17	0.77
2:bM:85:GLY:O	2:gU:2:ALA:N	2.17	0.77
2:cE:62:GLN:CG	2:nS:197:LYS:HE3	2.14	0.77
2:cF:197:LYS:CE	2:nR:62:GLN:CG	2.62	0.77
2:cG:62:GLN:CD	1:pB:103:ARG:O	2.27	0.77
2:ds:107:GLY:CA	2:ds:184:TYR:OH	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:du:2:ALA:N	2:hU:85:GLY:O	2.17	0.77
2:du:62:GLN:CG	2:ks:197:LYS:HE3	2.14	0.77
2:eA:174:ASP:OD1	2:eA:214:ARG:NH2	2.18	0.77
1:eC:103:ARG:O	2:im:62:GLN:CD	2.27	0.77
2:eM:62:GLN:CG	2:gV:197:LYS:CE	2.62	0.77
2:ge:62:GLN:CG	2:mA:197:LYS:HE3	2.14	0.77
1:gN:105:THR:HG21	2:ig:60:ILE:HG21	1.65	0.77
2:gW:174:ASP:OD1	2:gW:214:ARG:NH2	2.18	0.77
1:gY:103:ARG:O	2:mB:62:GLN:CD	2.27	0.77
2:hu:83:THR:OG1	2:hu:205:MET:SD	2.42	0.77
2:hx:62:GLN:CD	1:kJ:103:ARG:O	2.27	0.77
2:iA:174:ASP:OD1	2:iA:214:ARG:NH2	2.18	0.77
2:jy:60:ILE:HG21	1:pS:105:THR:HG21	1.65	0.77
2:jD:197:LYS:CE	2:lJ:62:GLN:CG	2.62	0.77
2:jO:63:ARG:NE	2:jR:205:MET:SD	2.57	0.77
2:ko:188:MET:HE2	5:qH:176:ASN:HD22	0.97	0.77
2:kt:174:ASP:OD1	2:kt:214:ARG:NH2	2.18	0.77
2:kT:107:GLY:CA	2:kT:184:TYR:OH	2.31	0.77
1:ni:105:THR:HG21	2:oD:60:ILE:HG21	1.65	0.77
2:oJ:174:ASP:OD1	2:oJ:214:ARG:NH2	2.18	0.77
2:oX:174:ASP:OD1	2:oX:214:ARG:NH2	2.18	0.77
2:ph:107:GLY:CA	2:ph:184:TYR:OH	2.33	0.77
2:pz:174:ASP:OD1	2:pz:214:ARG:NH2	2.18	0.77
3:qi:65:GLY:C	4:qo:9:GLY:O	2.25	0.77
5:qp:400:TYR:OH	5:qL:392:LEU:CD1	2.28	0.77
5:qr:53:GLU:OE2	5:qt:35:HIS:HE1	1.66	0.77
5:qv:229:ILE:HD11	5:qx:232:LEU:CD1	2.07	0.77
6:qA:65:THR:HB	6:qC:46:SER:OG	1.83	0.77
2:aJ:85:GLY:O	2:kT:2:ALA:N	2.17	0.77
2:aN:62:GLN:CD	1:hm:103:ARG:O	2.27	0.77
1:aP:103:ARG:O	2:cs:62:GLN:CD	2.27	0.77
2:bm:83:THR:OG1	2:bm:205:MET:SD	2.42	0.77
1:bK:70:GLY:N	6:qw:116:GLY:CA	2.47	0.77
2:cp:83:THR:OG1	2:cp:205:MET:SD	2.42	0.77
1:cx:105:THR:HG21	2:pf:60:ILE:HG21	1.65	0.77
2:cC:107:GLY:CA	2:cC:184:TYR:OH	2.33	0.77
2:cR:86:VAL:HG11	2:cR:102:LEU:HD11	1.66	0.77
2:dv:197:LYS:HE3	2:kr:62:GLN:HG3	1.67	0.77
2:ek:62:GLN:CG	2:mm:197:LYS:CE	2.62	0.77
2:fc:174:ASP:OD1	2:fc:214:ARG:NH2	2.18	0.77
2:gE:107:GLY:CA	2:gE:184:TYR:OH	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gI:174:ASP:OD1	2:gI:214:ARG:NH2	2.18	0.77
2:gT:83:THR:OG1	2:gT:205:MET:SD	2.42	0.77
2:hi:62:GLN:HG3	2:oi:197:LYS:HE3	1.67	0.77
2:hs:60:ILE:HG21	1:hC:105:THR:HG21	1.65	0.77
2:hv:2:ALA:N	2:kR:85:GLY:O	2.17	0.77
1:hB:99:LEU:HA	2:IV:197:LYS:HZ1	1.48	0.77
2:hG:107:GLY:CA	2:hG:184:TYR:OH	2.33	0.77
2:jm:107:GLY:CA	2:jm:184:TYR:OH	2.33	0.77
1:js:103:ARG:O	2:nd:62:GLN:CD	2.27	0.77
1:jt:102:GLU:CB	1:jV:99:LEU:HD22	1.98	0.77
2:jA:107:GLY:CA	2:jA:184:TYR:OH	2.33	0.77
2:jA:197:LYS:HZ1	1:mT:99:LEU:C	1.91	0.77
1:jF:100:LYS:CD	1:pU:100:LYS:HZ1	1.97	0.77
2:kd:86:VAL:HG11	2:kd:102:LEU:HD11	1.66	0.77
2:ke:62:GLN:HG3	2:qa:197:LYS:HE3	1.67	0.77
2:kD:107:GLY:CA	2:kD:184:TYR:OH	2.33	0.77
2:kH:174:ASP:OD1	2:kH:214:ARG:NH2	2.18	0.77
2:lv:107:GLY:CA	2:lv:184:TYR:OH	2.31	0.77
2:IW:86:VAL:HG11	2:IW:102:LEU:HD11	1.66	0.77
2:mv:60:ILE:HG21	1:oa:105:THR:HG21	1.65	0.77
2:mx:63:ARG:NE	2:mA:205:MET:SD	2.57	0.77
2:nq:171:TYR:HH	2:nq:175:THR:HG1	1.32	0.77
2:nN:60:ILE:HG21	1:nY:105:THR:HG21	1.65	0.77
2:pv:107:GLY:CA	2:pv:184:TYR:OH	2.33	0.77
1:ar:105:THR:HG21	2:bL:60:ILE:HG21	1.65	0.77
2:av:107:GLY:CA	2:av:184:TYR:OH	2.33	0.77
2:aX:63:ARG:NE	2:ba:205:MET:SD	2.57	0.77
2:aX:107:GLY:CA	2:aX:184:TYR:OH	2.33	0.77
2:aZ:62:GLN:CG	2:py:197:LYS:HE3	2.14	0.77
2:ba:197:LYS:HE3	2:px:62:GLN:CG	2.14	0.77
2:bn:62:GLN:CG	2:jp:197:LYS:HE3	2.14	0.77
1:bs:99:LEU:CD1	1:eR:60:ARG:CD	2.44	0.77
2:bz:107:GLY:CA	2:bz:184:TYR:OH	2.33	0.77
2:bO:107:GLY:CA	2:bO:184:TYR:OH	2.31	0.77
2:cc:107:GLY:CA	2:cc:184:TYR:OH	2.31	0.77
2:cS:2:ALA:N	2:iK:85:GLY:O	2.17	0.77
2:dg:107:GLY:CA	2:dg:184:TYR:OH	2.31	0.77
2:dX:197:LYS:HE3	2:jQ:62:GLN:CG	2.14	0.77
2:ei:85:GLY:O	2:fC:2:ALA:N	2.17	0.77
2:ew:107:GLY:CA	2:ew:184:TYR:OH	2.33	0.77
2:fA:63:ARG:NE	2:fD:205:MET:SD	2.57	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fT:103:ARG:CZ	2:gb:60:ILE:O	2.33	0.77
2:gf:197:LYS:HE3	2:mz:62:GLN:CG	2.14	0.77
2:hH:86:VAL:HG11	2:hH:102:LEU:HD11	1.66	0.77
2:iL:86:VAL:HG11	2:iL:102:LEU:HD11	1.66	0.77
1:jt:60:ARG:CD	1:jV:99:LEU:CD1	2.44	0.77
2:kE:86:VAL:HG11	2:kE:102:LEU:HD11	1.66	0.77
2:lx:174:ASP:OD1	2:lx:214:ARG:NH2	2.18	0.77
2:lH:107:GLY:CA	2:lH:184:TYR:OH	2.33	0.77
2:iL:62:GLN:CD	1:ox:103:ARG:O	2.27	0.77
1:mC:103:ARG:CZ	2:oE:60:ILE:O	2.33	0.77
2:na:86:VAL:HG11	2:na:102:LEU:HD11	1.66	0.77
2:no:83:THR:OG1	2:no:205:MET:SD	2.42	0.77
2:nr:83:THR:OG1	2:nr:204:PHE:O	2.03	0.77
2:od:107:GLY:CA	2:od:184:TYR:OH	2.33	0.77
2:oh:83:THR:OG1	2:oh:204:PHE:O	2.03	0.77
2:ov:174:ASP:OD1	2:ov:214:ARG:NH2	2.18	0.77
2:oU:86:VAL:HG11	2:oU:102:LEU:HD11	1.66	0.77
3:qh:66:GLN:CB	4:qj:8:TYR:O	2.33	0.77
4:qm:218:LEU:HD13	4:qn:189:TYR:HD2	1.49	0.77
5:qJ:392:LEU:CD1	5:qL:400:TYR:OH	2.28	0.77
1:aa:103:ARG:O	2:nr:62:GLN:CD	2.27	0.77
2:aM:197:LYS:HE3	2:nb:62:GLN:HG3	1.67	0.77
1:aS:105:THR:HG21	2:iL:60:ILE:HG21	1.65	0.77
2:bz:197:LYS:HZ1	1:eS:99:LEU:HA	1.50	0.77
2:bB:2:ALA:N	2:ca:85:GLY:O	2.17	0.77
2:bM:107:GLY:CA	2:bM:184:TYR:OH	2.33	0.77
2:bO:62:GLN:CG	2:lY:197:LYS:CE	2.61	0.77
2:bO:62:GLN:CG	2:lY:197:LYS:HE3	2.14	0.77
2:ce:174:ASP:OD1	2:ce:214:ARG:NH2	2.18	0.77
1:cg:103:ARG:O	2:jQ:62:GLN:CD	2.27	0.77
2:co:85:GLY:O	2:jo:2:ALA:N	2.17	0.77
2:cB:60:ILE:O	1:pm:103:ARG:CZ	2.33	0.77
2:cS:62:GLN:HG3	2:pM:197:LYS:HE3	1.67	0.77
1:cX:60:ARG:CD	1:dz:99:LEU:CD1	2.44	0.77
2:dd:60:ILE:O	1:eP:103:ARG:CZ	2.33	0.77
2:eN:197:LYS:HE3	2:gU:62:GLN:CG	2.14	0.77
2:fE:174:ASP:OD1	2:fE:214:ARG:NH2	2.18	0.77
1:fF:103:ARG:CZ	2:mi:60:ILE:O	2.33	0.77
2:fQ:62:GLN:CG	2:kG:197:LYS:CE	2.62	0.77
2:gc:107:GLY:CA	2:gc:184:TYR:OH	2.33	0.77
2:ht:63:ARG:NE	2:hw:205:MET:SD	2.57	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hU:107:GLY:CA	2:hU:184:TYR:OH	2.33	0.77
2:ik:107:GLY:CA	2:ik:184:TYR:OH	2.31	0.77
2:iw:85:GLY:O	2:pZ:2:ALA:N	2.17	0.77
2:iK:63:ARG:NE	2:iN:205:MET:SD	2.57	0.77
2:jE:83:THR:OG1	2:jE:204:PHE:O	2.03	0.77
2:jE:174:ASP:OD1	2:jE:214:ARG:NH2	2.18	0.77
2:jP:86:VAL:HG11	2:jP:102:LEU:HD11	1.66	0.77
2:kV:174:ASP:OD1	2:kV:214:ARG:NH2	2.18	0.77
2:lx:62:GLN:CD	1:pP:103:ARG:O	2.27	0.77
2:mn:83:THR:OG1	2:mn:204:PHE:O	2.03	0.77
2:mx:107:GLY:CA	2:mx:184:TYR:OH	2.33	0.77
1:nU:103:ARG:CZ	2:oc:60:ILE:O	2.33	0.77
1:oo:102:GLU:HA	2:pW:198:GLU:HG3	1.67	0.77
2:og:60:ILE:O	1:qc:103:ARG:CZ	2.33	0.77
2:of:107:GLY:CA	2:of:184:TYR:OH	2.33	0.77
2:ot:107:GLY:CA	2:ot:184:TYR:OH	2.33	0.77
2:pv:63:ARG:NE	2:py:205:MET:SD	2.57	0.77
2:qb:174:ASP:OD1	2:qb:214:ARG:NH2	2.18	0.77
5:qr:245:ASP:OD2	6:qu:121:VAL:HG21	1.84	0.77
5:qr:252:LEU:CD2	6:qu:126:GLN:HG3	2.13	0.77
6:qy:65:THR:HB	6:qA:46:SER:OG	1.83	0.77
6:qI:112:LEU:CD2	6:qK:58:LEU:HD11	1.44	0.77
2:ak:107:GLY:CA	2:ak:184:TYR:OH	2.31	0.77
1:aB:103:ARG:O	2:kV:62:GLN:CD	2.27	0.77
2:aJ:107:GLY:CA	2:aJ:184:TYR:OH	2.33	0.77
2:aL:107:GLY:CA	2:aL:184:TYR:OH	2.31	0.77
2:bn:107:GLY:CA	2:bn:184:TYR:OH	2.31	0.77
2:bQ:174:ASP:OD1	2:bQ:214:ARG:NH2	2.18	0.77
2:co:107:GLY:CA	2:co:184:TYR:OH	2.33	0.77
2:cs:174:ASP:OD1	2:cs:214:ARG:NH2	2.18	0.77
2:dY:174:ASP:OD1	2:dY:214:ARG:NH2	2.18	0.77
1:dZ:103:ARG:CZ	2:nO:60:ILE:O	2.33	0.77
2:ek:62:GLN:CG	2:mm:197:LYS:HE3	2.14	0.77
1:en:103:ARG:CZ	2:ev:60:ILE:O	2.33	0.77
2:ex:86:VAL:HG11	2:ex:102:LEU:HD11	1.66	0.77
2:eO:83:THR:OG1	2:eO:204:PHE:O	2.03	0.77
2:fb:197:LYS:HE3	2:iM:62:GLN:CG	2.14	0.77
1:fl:105:THR:HG21	2:gc:60:ILE:HG22	1.57	0.77
1:gh:103:ARG:CZ	2:ih:60:ILE:O	2.33	0.77
2:gF:86:VAL:HG11	2:gF:102:LEU:HD11	1.66	0.77
2:gS:107:GLY:CA	2:gS:184:TYR:OH	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hK:174:ASP:OD1	2:hK:214:ARG:NH2	2.18	0.77
2:hU:63:ARG:NE	2:hX:205:MET:SD	2.57	0.77
2:ii:107:GLY:CA	2:ii:184:TYR:OH	2.33	0.77
2:im:174:ASP:OD1	2:im:214:ARG:NH2	2.18	0.77
2:iy:62:GLN:HG3	2:ou:197:LYS:HE3	1.67	0.77
2:iO:174:ASP:OD1	2:iO:214:ARG:NH2	2.18	0.77
2:jm:63:ARG:NE	2:jp:205:MET:SD	2.57	0.77
2:jB:86:VAL:HG11	2:jB:102:LEU:HD11	1.66	0.77
2:jD:171:TYR:HH	2:jD:175:THR:HG1	1.29	0.77
2:kR:107:GLY:CA	2:kR:184:TYR:OH	2.33	0.77
1:kW:103:ARG:CZ	2:mY:60:ILE:O	2.33	0.77
2:le:60:ILE:O	1:mQ:103:ARG:CZ	2.33	0.77
2:li:197:LYS:HE3	2:np:62:GLN:CG	2.14	0.77
2:IL:174:ASP:OD1	2:IL:214:ARG:NH2	2.18	0.77
1:mG:105:THR:HG21	2:op:60:ILE:HG21	1.65	0.77
2:mL:107:GLY:CA	2:mL:184:TYR:OH	2.33	0.77
2:mN:62:GLN:CG	2:oW:197:LYS:CE	2.62	0.77
2:nF:174:ASP:OD1	2:nF:214:ARG:NH2	2.18	0.77
2:oe:83:THR:OG1	2:oe:205:MET:SD	2.42	0.77
2:or:107:GLY:CA	2:or:184:TYR:OH	2.33	0.77
2:pZ:107:GLY:CA	2:pZ:184:TYR:OH	2.31	0.77
3:qg:68:ALA:CB	4:qk:8:TYR:OH	2.32	0.77
6:qs:65:THR:HB	6:qu:46:SER:OG	1.83	0.77
5:qD:245:ASP:OD2	6:qG:121:VAL:HG21	1.84	0.77
1:aT:99:LEU:HD22	1:iE:60:ARG:HD3	1.67	0.77
2:bb:174:ASP:OD1	2:bb:214:ARG:NH2	2.18	0.77
1:bf:105:THR:HG21	2:ds:60:ILE:HG22	1.57	0.77
2:bm:86:VAL:HG11	2:bm:102:LEU:HD11	1.66	0.77
2:bx:60:ILE:HG21	1:hP:105:THR:HG21	1.65	0.77
2:bB:107:GLY:CA	2:bB:184:TYR:OH	2.31	0.77
1:bF:103:ARG:O	2:gW:62:GLN:CD	2.27	0.77
2:bN:83:THR:OG1	2:bN:205:MET:SD	2.42	0.77
2:cc:2:ALA:N	2:eY:85:GLY:O	2.17	0.77
2:cm:60:ILE:HG21	1:pq:105:THR:HG21	1.65	0.77
2:cC:63:ARG:NE	2:cF:205:MET:SD	2.57	0.77
2:dh:197:LYS:CE	2:fo:62:GLN:CG	2.62	0.77
2:di:174:ASP:OD1	2:di:214:ARG:NH2	2.18	0.77
2:dw:174:ASP:OD1	2:dw:214:ARG:NH2	2.18	0.77
2:dU:63:ARG:NE	2:dX:205:MET:SD	2.57	0.77
2:ei:107:GLY:CA	2:ei:184:TYR:OH	2.33	0.77
2:eA:62:GLN:CD	1:oZ:103:ARG:O	2.27	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fn:83:THR:OG1	2:fn:205:MET:SD	2.42	0.77
2:fo:107:GLY:CA	2:fo:184:TYR:OH	2.31	0.77
2:fq:174:ASP:OD1	2:fq:214:ARG:NH2	2.18	0.77
1:fr:103:ARG:CZ	2:nA:60:ILE:O	2.33	0.77
2:gE:63:ARG:NE	2:gH:205:MET:SD	2.57	0.77
2:gG:62:GLN:HG3	2:pk:197:LYS:HE3	1.67	0.77
1:gP:102:GLU:HA	2:ih:198:GLU:HG3	1.67	0.77
2:iY:107:GLY:CA	2:iY:184:TYR:OH	2.33	0.77
2:jC:62:GLN:CG	2:lK:197:LYS:HE3	2.14	0.77
2:jE:62:GLN:CD	1:jU:103:ARG:O	2.27	0.77
2:kg:83:THR:OG1	2:kg:204:PHE:O	2.03	0.77
2:ml:107:GLY:CA	2:ml:184:TYR:OH	2.31	0.77
1:om:105:THR:HG21	2:pV:60:ILE:HG21	1.65	0.77
2:pl:83:THR:OG1	2:pl:204:PHE:O	2.03	0.77
2:pw:86:VAL:HG11	2:pw:102:LEU:HD11	1.66	0.77
3:qe:64:GLY:C	4:ql:219:ILE:HG22	2.09	0.77
5:qp:392:LEU:CD1	5:qr:400:TYR:OH	2.28	0.77
2:am:83:THR:OG1	2:am:204:PHE:O	2.03	0.77
1:an:103:ARG:CZ	2:oS:60:ILE:O	2.33	0.77
1:aQ:99:LEU:HD22	1:ch:102:GLU:CB	1.98	0.77
1:bu:105:THR:HG21	2:dc:60:ILE:HG21	1.65	0.77
2:bC:197:LYS:HE3	2:dI:62:GLN:HG3	1.67	0.77
2:cp:86:VAL:HG11	2:cp:102:LEU:HD11	1.66	0.77
1:ep:60:ARG:CD	1:pa:99:LEU:CD1	2.44	0.77
2:ew:85:GLY:O	2:nR:2:ALA:N	2.17	0.77
2:fN:60:ILE:O	1:ma:103:ARG:CZ	2.33	0.77
2:ga:60:ILE:HG21	1:id:105:THR:HG21	1.65	0.77
2:gq:107:GLY:CA	2:gq:184:TYR:OH	2.33	0.77
2:gr:86:VAL:HG11	2:gr:102:LEU:HD11	1.66	0.77
2:gu:62:GLN:CD	1:gK:103:ARG:O	2.27	0.77
2:gH:197:LYS:HE3	2:pj:62:GLN:CG	2.14	0.77
2:hF:60:ILE:O	1:lM:103:ARG:CZ	2.33	0.77
2:hk:174:ASP:OD1	2:hk:214:ARG:NH2	2.18	0.77
2:hs:184:TYR:CZ	5:qB:178:PRO:HA	2.18	0.77
2:ht:107:GLY:CA	2:ht:184:TYR:OH	2.33	0.77
2:hI:2:ALA:N	2:IV:85:GLY:O	2.17	0.77
2:hK:83:THR:OG1	2:hK:204:PHE:O	2.03	0.77
2:iZ:86:VAL:HG11	2:iZ:102:LEU:HD11	1.66	0.77
2:kS:86:VAL:HG11	2:kS:102:LEU:HD11	1.66	0.77
2:lL:83:THR:OG1	2:lL:204:PHE:O	2.03	0.77
2:mj:107:GLY:CA	2:mj:184:TYR:OH	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mk:86:VAL:HG11	2:mk:102:LEU:HD11	1.66	0.77
2:mZ:63:ARG:NE	2:nc:205:MET:SD	2.57	0.77
2:oe:86:VAL:HG11	2:oe:102:LEU:HD11	1.66	0.77
2:oh:174:ASP:OD1	2:oh:214:ARG:NH2	2.18	0.77
1:pA:103:ARG:CZ	2:pI:60:ILE:O	2.33	0.77
3:qe:67:ARG:CB	4:qm:194:LEU:HD13	2.15	0.77
3:qf:55:GLU:CB	4:ql:223:ASN:HD22	1.98	0.77
4:ql:218:LEU:HD13	4:qm:189:TYR:HD2	1.49	0.77
5:qr:392:LEU:CD1	5:qt:400:TYR:OH	2.28	0.77
5:qz:245:ASP:OD2	6:qC:121:VAL:HG21	1.84	0.77
1:ad:105:THR:HG21	2:ob:60:ILE:HG21	1.65	0.76
2:bo:197:LYS:HE3	2:jo:62:GLN:HG3	1.67	0.76
2:by:198:GLU:HG3	1:hR:102:GLU:HA	1.67	0.76
2:cd:197:LYS:HE3	2:hW:62:GLN:HG3	1.67	0.76
2:cn:60:ILE:O	1:iB:103:ARG:CZ	2.33	0.76
2:cU:174:ASP:OD1	2:cU:214:ARG:NH2	2.18	0.76
1:cZ:105:THR:HG21	2:eI:60:ILE:HG21	1.65	0.76
2:dt:86:VAL:HG11	2:dt:102:LEU:HD11	1.66	0.76
2:dW:62:GLN:HG3	2:jR:197:LYS:HE3	1.67	0.76
2:fA:107:GLY:CA	2:fA:184:TYR:OH	2.33	0.76
2:fO:107:GLY:CA	2:fO:184:TYR:OH	2.33	0.76
2:fS:174:ASP:OD1	2:fS:214:ARG:NH2	2.18	0.76
2:gg:174:ASP:OD1	2:gg:214:ARG:NH2	2.18	0.76
2:hg:107:GLY:CA	2:hg:184:TYR:OH	2.33	0.76
2:hh:86:VAL:HG11	2:hh:102:LEU:HD11	1.66	0.76
2:hx:184:TYR:CE2	5:qz:30:LYS:HB2	2.19	0.76
2:hK:100:GLY:O	5:qt:54:GLN:OE1	2.02	0.76
2:iy:2:ALA:N	2:lt:85:GLY:O	2.17	0.76
2:iz:197:LYS:HE3	2:ot:62:GLN:HG3	1.67	0.76
2:jQ:174:ASP:OD1	2:jQ:214:ARG:NH2	2.18	0.76
2:jO:107:GLY:CA	2:jO:184:TYR:OH	2.33	0.76
2:kg:62:GLN:CD	1:mR:103:ARG:O	2.27	0.76
1:kX:103:ARG:O	2:oJ:62:GLN:CD	2.27	0.76
1:kZ:99:LEU:C	2:lH:197:LYS:HZ2	1.92	0.76
1:mo:103:ARG:CZ	2:mw:60:ILE:O	2.33	0.76
2:nb:107:GLY:CA	2:nb:184:TYR:OH	2.31	0.76
2:nd:174:ASP:OD1	2:nd:214:ARG:NH2	2.18	0.76
1:nk:102:GLU:HA	2:oE:198:GLU:HG3	1.67	0.76
2:nm:60:ILE:O	1:oK:103:ARG:CZ	2.33	0.76
1:nJ:60:ARG:HD3	1:nZ:99:LEU:HD22	1.67	0.76
2:nP:63:ARG:NE	2:nS:205:MET:SD	2.57	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pi:86:VAL:HG11	2:pi:102:LEU:HD11	1.66	0.76
1:pA:100:LYS:CD	1:pG:100:LYS:HZ3	1.97	0.76
2:pX:63:ARG:NE	2:qa:205:MET:SD	2.57	0.76
3:qh:55:GLU:HB3	4:qj:223:ASN:HD21	1.50	0.76
1:aQ:99:LEU:CD1	1:ch:60:ARG:CD	2.44	0.76
2:bb:197:LYS:C	2:bk:62:GLN:OE1	2.29	0.76
1:bc:103:ARG:CZ	2:bk:60:ILE:O	2.33	0.76
1:bI:105:THR:HG21	2:hF:60:ILE:HG21	1.65	0.76
1:bW:99:LEU:HD22	1:dm:60:ARG:HD3	1.67	0.76
2:bY:60:ILE:HG21	1:iF:105:THR:HG21	1.65	0.76
2:ca:107:GLY:CA	2:ca:184:TYR:OH	2.33	0.76
1:cu:103:ARG:O	2:dY:62:GLN:CD	2.27	0.76
2:cB:62:GLN:OE1	2:pl:197:LYS:C	2.29	0.76
2:cF:197:LYS:HE3	2:nR:62:GLN:HG3	1.67	0.76
2:cG:174:ASP:OD1	2:cG:214:ARG:NH2	2.18	0.76
1:cV:103:ARG:CZ	2:eX:60:ILE:O	2.33	0.76
1:cW:103:ARG:O	2:gI:62:GLN:CD	2.27	0.76
1:dC:99:LEU:HD22	1:eS:60:ARG:HD3	1.67	0.76
1:dR:102:GLU:HA	2:oS:198:GLU:HG3	1.67	0.76
2:dT:62:GLN:OE1	2:oX:197:LYS:C	2.29	0.76
2:dU:107:GLY:CA	2:dU:184:TYR:OH	2.33	0.76
1:ec:105:THR:HG21	2:ew:60:ILE:HG22	1.57	0.76
1:eo:103:ARG:O	2:nT:62:GLN:CD	2.27	0.76
2:eY:63:ARG:NE	2:fb:205:MET:SD	2.57	0.76
2:fr:197:LYS:HE3	2:kF:62:GLN:CG	2.14	0.76
1:fW:60:ARG:HD3	1:ie:99:LEU:HD22	1.67	0.76
2:gR:60:ILE:O	1:in:103:ARG:CZ	2.33	0.76
2:gW:83:THR:OG1	2:gW:204:PHE:O	2.03	0.76
2:hF:62:GLN:OE1	2:IL:197:LYS:C	2.29	0.76
2:hF:198:GLU:HG3	1:kA:102:GLU:HA	1.67	0.76
2:hu:86:VAL:HG11	2:hu:102:LEU:HD11	1.66	0.76
2:ja:107:GLY:CA	2:ja:184:TYR:OH	2.31	0.76
1:jR:103:ARG:CZ	2:ls:60:ILE:O	2.33	0.76
2:jN:60:ILE:O	1:pO:103:ARG:CZ	2.33	0.76
2:kc:107:GLY:CA	2:kc:184:TYR:OH	2.33	0.76
2:kR:63:ARG:NE	2:kU:205:MET:SD	2.57	0.76
2:kS:83:THR:OG1	2:kS:205:MET:SD	2.42	0.76
2:my:83:THR:OG1	2:my:205:MET:SD	2.42	0.76
2:mB:174:ASP:OD1	2:mB:214:ARG:NH2	2.18	0.76
2:mO:197:LYS:CE	2:oV:62:GLN:CG	2.62	0.76
2:nR:174:ASP:OD1	2:nR:214:ARG:NH2	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nC:86:VAL:HG11	2:nC:102:LEU:HD11	1.66	0.76
4:qj:38:GLN:HG2	4:qo:214:GLN:O	1.86	0.76
4:qn:214:GLN:O	4:qo:38:GLN:HG2	1.86	0.76
5:qp:252:LEU:CD2	6:qs:126:GLN:HG3	2.14	0.76
5:qt:245:ASP:OD2	6:qw:121:VAL:HG21	1.84	0.76
5:qt:252:LEU:CD2	6:qw:126:GLN:HG3	2.13	0.76
5:qH:96:ARG:CD	5:qJ:114:LEU:HD23	2.11	0.76
2:ak:62:GLN:CG	2:fD:197:LYS:HE3	2.14	0.76
1:ap:99:LEU:HD22	1:hN:102:GLU:CB	1.98	0.76
2:ay:197:LYS:CE	2:gs:62:GLN:CG	2.62	0.76
2:aI:60:ILE:O	1:kh:103:ARG:CZ	2.33	0.76
2:aW:60:ILE:O	1:iP:103:ARG:CZ	2.33	0.76
2:bp:174:ASP:OD1	2:bp:214:ARG:NH2	2.18	0.76
1:bq:103:ARG:CZ	2:dr:60:ILE:O	2.33	0.76
2:bA:86:VAL:HG11	2:bA:102:LEU:HD11	1.66	0.76
1:cj:105:THR:HG21	2:iu:60:ILE:HG21	1.65	0.76
2:cQ:107:GLY:CA	2:cQ:184:TYR:OH	2.33	0.76
1:db:102:GLU:HA	2:eJ:198:GLU:HG3	1.67	0.76
2:dd:62:GLN:OE1	2:eO:197:LYS:C	2.29	0.76
2:dG:107:GLY:CA	2:dG:184:TYR:OH	2.33	0.76
2:dK:197:LYS:C	2:pg:62:GLN:OE1	2.29	0.76
2:fl:60:ILE:O	1:gJ:103:ARG:CZ	2.33	0.76
2:fC:107:GLY:CA	2:fC:184:TYR:OH	2.31	0.76
2:hH:83:THR:OG1	2:hH:205:MET:SD	2.42	0.76
2:ij:86:VAL:HG11	2:ij:102:LEU:HD11	1.66	0.76
2:il:197:LYS:HE3	2:nD:62:GLN:HG3	1.67	0.76
2:iK:107:GLY:CA	2:iK:184:TYR:OH	2.33	0.76
1:iQ:103:ARG:O	2:kt:62:GLN:CD	2.27	0.76
2:jA:63:ARG:NE	2:jD:205:MET:SD	2.57	0.76
2:jD:197:LYS:HE3	2:lJ:62:GLN:HG3	1.67	0.76
1:jL:100:LYS:HZ1	1:pO:100:LYS:CD	1.97	0.76
2:mk:83:THR:OG1	2:mk:205:MET:SD	2.42	0.76
2:mN:62:GLN:HG3	2:oW:197:LYS:HE3	1.67	0.76
2:nn:107:GLY:CA	2:nn:184:TYR:OH	2.33	0.76
2:nP:107:GLY:CA	2:nP:184:TYR:OH	2.33	0.76
2:pj:107:GLY:CA	2:pj:184:TYR:OH	2.31	0.76
2:pu:198:GLU:HG3	1:pG:102:GLU:HA	1.67	0.76
4:qn:218:LEU:HD13	4:qo:189:TYR:HD2	1.49	0.76
5:qJ:245:ASP:OD2	6:qM:121:VAL:HG21	1.84	0.76
2:aw:86:VAL:HG11	2:aw:102:LEU:HD11	1.66	0.76
2:aI:62:GLN:OE1	2:kg:197:LYS:C	2.29	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:by:62:GLN:OE1	2:di:197:LYS:C	2.29	0.76
2:bZ:60:ILE:O	1:dx:103:ARG:CZ	2.33	0.76
2:cq:107:GLY:CA	2:cq:184:TYR:OH	2.31	0.76
2:cs:83:THR:OG1	2:cs:204:PHE:O	2.03	0.76
1:ct:103:ARG:CZ	2:pu:60:ILE:O	2.33	0.76
2:de:107:GLY:CA	2:de:184:TYR:OH	2.33	0.76
2:df:86:VAL:HG11	2:df:102:LEU:HD11	1.66	0.76
1:ef:102:GLU:HA	2:nA:198:GLU:HG3	1.67	0.76
2:ez:197:LYS:HE3	2:of:62:GLN:HG3	1.67	0.76
2:eM:62:GLN:HG3	2:gV:197:LYS:HE3	1.67	0.76
1:fG:103:ARG:O	2:hk:62:GLN:CD	2.27	0.76
2:gd:86:VAL:HG11	2:gd:102:LEU:HD11	1.66	0.76
1:gX:103:ARG:CZ	2:lU:60:ILE:O	2.33	0.76
1:hl:103:ARG:CZ	2:kC:60:ILE:O	2.33	0.76
2:hY:83:THR:OG1	2:hY:204:PHE:O	2.03	0.76
2:iw:107:GLY:CA	2:iw:184:TYR:OH	2.33	0.76
1:ju:60:ARG:HD3	1:pT:99:LEU:HD22	1.67	0.76
2:kt:189:LYS:HD3	5:qD:34:GLN:HG2	1.67	0.76
2:kH:197:LYS:C	2:kQ:62:GLN:OE1	2.29	0.76
1:kI:100:LYS:HG2	1:kO:100:LYS:HZ1	1.48	0.76
1:kI:103:ARG:CZ	2:kQ:60:ILE:O	2.33	0.76
2:lt:107:GLY:CA	2:lt:184:TYR:OH	2.33	0.76
2:mn:197:LYS:C	2:mw:62:GLN:OE1	2.29	0.76
2:mZ:107:GLY:CA	2:mZ:184:TYR:OH	2.33	0.76
2:nB:107:GLY:CA	2:nB:184:TYR:OH	2.33	0.76
2:pX:107:GLY:CA	2:pX:184:TYR:OH	2.33	0.76
3:qd:68:ALA:CA	4:qn:8:TYR:HE2	1.98	0.76
3:qi:68:ALA:HB2	4:qo:8:TYR:CZ	2.20	0.76
2:ai:107:GLY:CA	2:ai:184:TYR:OH	2.33	0.76
2:aW:198:GLU:HG3	1:bi:102:GLU:HA	1.67	0.76
2:bp:83:THR:OG1	2:bp:204:PHE:O	2.03	0.76
2:bD:197:LYS:C	2:hT:62:GLN:OE1	2.29	0.76
2:cn:62:GLN:OE1	2:iA:197:LYS:C	2.29	0.76
2:cU:83:THR:OG1	2:cU:204:PHE:O	2.03	0.76
2:de:63:ARG:NE	2:dh:205:MET:SD	2.57	0.76
2:dV:86:VAL:HG11	2:dV:102:LEU:HD11	1.66	0.76
2:dY:197:LYS:C	2:nO:62:GLN:OE1	2.29	0.76
2:em:197:LYS:C	2:ev:62:GLN:OE1	2.29	0.76
1:eq:60:ARG:HD3	1:gA:99:LEU:HD22	1.67	0.76
2:fl:62:GLN:OE1	2:gI:197:LYS:C	2.29	0.76
2:fq:197:LYS:C	2:nA:62:GLN:OE1	2.29	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fP:83:THR:OG1	2:fP:205:MET:SD	2.42	0.76
2:fS:197:LYS:C	2:gb:62:GLN:OE1	2.29	0.76
1:gm:99:LEU:HD22	1:hO:60:ARG:HD3	1.67	0.76
2:gp:60:ILE:O	1:hZ:103:ARG:CZ	2.33	0.76
2:gR:198:GLU:HG3	1:lS:102:GLU:HA	1.67	0.76
2:gW:197:LYS:C	2:lU:62:GLN:OE1	2.29	0.76
1:hp:105:THR:HG21	2:ko:60:ILE:HG21	1.65	0.76
2:kd:83:THR:OG1	2:kd:205:MET:SD	2.42	0.76
2:ko:31:TYR:OH	5:qF:178:PRO:N	2.18	0.76
2:kp:107:GLY:CA	2:kp:184:TYR:OH	2.33	0.76
2:kQ:198:GLU:HG3	1:mW:102:GLU:HA	1.67	0.76
2:lu:83:THR:OG1	2:lu:205:MET:SD	2.42	0.76
2:mP:62:GLN:CD	1:nf:103:ARG:O	2.27	0.76
1:nI:99:LEU:HD22	1:pa:102:GLU:CB	1.98	0.76
2:nP:197:LYS:HZ2	1:pb:99:LEU:C	1.93	0.76
2:nQ:83:THR:OG1	2:nQ:205:MET:SD	2.42	0.76
2:od:63:ARG:NE	2:og:205:MET:SD	2.57	0.76
2:pz:197:LYS:C	2:pI:62:GLN:OE1	2.29	0.76
3:qe:66:GLN:HB2	4:qm:8:TYR:O	1.84	0.76
3:qe:67:ARG:CB	4:qm:194:LEU:CD1	2.63	0.76
3:qf:25:LEU:CD2	6:qC:82:VAL:HB	2.16	0.76
3:qg:61:ASP:CA	4:qk:33:SER:HB3	1.96	0.76
3:qg:67:ARG:H	4:qk:194:LEU:CD1	1.74	0.76
4:qk:218:LEU:HD13	4:ql:189:TYR:HD2	1.49	0.76
6:qq:126:GLN:HG3	5:qL:252:LEU:CD2	2.13	0.76
5:qB:245:ASP:OD2	6:qE:121:VAL:HG21	1.84	0.76
5:qF:245:ASP:OD2	6:qI:121:VAL:HG21	1.84	0.76
5:qH:252:LEU:CD2	6:qK:126:GLN:HG3	2.13	0.76
2:av:63:ARG:NE	2:ay:205:MET:SD	2.57	0.76
2:az:62:GLN:CD	1:dk:103:ARG:O	2.27	0.76
1:aQ:60:ARG:CD	1:jf:99:LEU:CD1	2.44	0.76
1:cf:103:ARG:CZ	2:iJ:60:ILE:O	2.33	0.76
1:ck:99:LEU:HD22	1:iq:60:ARG:HD3	1.68	0.76
2:cP:198:GLU:HG3	1:eV:102:GLU:HA	1.67	0.76
1:da:99:LEU:HD22	1:eE:60:ARG:HD3	1.67	0.76
2:dT:60:ILE:O	1:oY:103:ARG:CZ	2.33	0.76
2:em:174:ASP:OD1	2:em:214:ARG:NH2	2.18	0.76
2:ez:197:LYS:CE	2:of:62:GLN:CG	2.62	0.76
1:eB:103:ARG:CZ	2:gD:60:ILE:O	2.33	0.76
2:eK:63:ARG:NE	2:eN:205:MET:SD	2.57	0.76
2:gg:83:THR:OG1	2:gg:204:PHE:O	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gr:83:THR:OG1	2:gr:205:MET:SD	2.42	0.76
2:gu:174:ASP:OD1	2:gu:214:ARG:NH2	2.18	0.76
2:hh:83:THR:OG1	2:hh:205:MET:SD	2.42	0.76
2:hs:104:GLN:HE21	5:qB:179:ALA:HB2	1.50	0.76
2:ik:62:GLN:HG3	2:nE:197:LYS:HE3	1.67	0.76
2:jc:197:LYS:C	2:jl:62:GLN:OE1	2.29	0.76
1:jd:103:ARG:CZ	2:jl:60:ILE:O	2.33	0.76
1:jg:103:ARG:CZ	2:lt:61:GLY:CA	2.64	0.76
1:jg:105:THR:HG21	2:lt:60:ILE:HG22	1.57	0.76
2:jn:86:VAL:HG11	2:jn:102:LEU:HD11	1.66	0.76
1:jv:105:THR:HG21	2:ld:60:ILE:HG21	1.65	0.76
1:jV:102:GLU:OE1	1:mS:99:LEU:HA	1.86	0.76
1:jZ:102:GLU:HA	2:ls:198:GLU:HG3	1.67	0.76
2:kt:111:GLY:CA	5:qD:178:PRO:CG	2.63	0.76
1:kY:99:LEU:HA	1:oy:102:GLU:OE1	1.86	0.76
2:lx:83:THR:OG1	2:lx:204:PHE:O	2.03	0.76
2:IV:107:GLY:CA	2:IV:184:TYR:OH	2.33	0.76
2:mP:174:ASP:OD1	2:mP:214:ARG:NH2	2.18	0.76
2:nT:174:ASP:OD1	2:nT:214:ARG:NH2	2.18	0.76
3:qh:66:GLN:C	4:qj:194:LEU:CD1	2.57	0.76
3:qi:55:GLU:HB3	4:qo:223:ASN:HD21	1.49	0.76
4:qj:214:GLN:O	4:qk:38:GLN:HG2	1.86	0.76
5:qp:35:HIS:HE1	5:qL:53:GLU:OE2	1.67	0.76
5:qD:252:LEU:CD2	6:qG:126:GLN:HG3	2.14	0.76
5:qF:392:LEU:HD13	5:qH:400:TYR:CZ	2.12	0.76
2:ah:198:GLU:HG3	1:oQ:102:GLU:HA	1.67	0.76
1:aq:60:ARG:HD3	1:km:99:LEU:HD22	1.67	0.76
2:ay:197:LYS:HE3	2:gs:62:GLN:HG3	1.67	0.76
2:bM:107:GLY:HA3	2:bM:184:TYR:OH	1.86	0.76
2:cD:86:VAL:HG11	2:cD:102:LEU:HD11	1.66	0.76
2:dX:197:LYS:CE	2:jQ:62:GLN:CG	2.62	0.76
2:ev:198:GLU:HG3	1:gB:102:GLU:HA	1.67	0.76
1:fu:103:ARG:CZ	2:mj:61:GLY:CA	2.64	0.76
2:gp:62:GLN:OE1	2:hY:197:LYS:C	2.29	0.76
1:gM:60:ARG:HD3	1:lR:99:LEU:HD22	1.67	0.76
1:ha:60:ARG:HD3	1:kz:99:LEU:HD22	1.67	0.76
1:is:99:LEU:HD22	1:jI:60:ARG:HD3	1.67	0.76
2:jE:197:LYS:C	2:pW:62:GLN:OE1	2.29	0.76
1:kv:103:ARG:O	2:lZ:62:GLN:CD	2.27	0.76
2:lj:174:ASP:OD1	2:lj:214:ARG:NH2	2.18	0.76
1:mb:103:ARG:O	2:nF:62:GLN:CD	2.27	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oq:62:GLN:OE1	2:qb:197:LYS:C	2.29	0.76
2:os:83:THR:OG1	2:os:205:MET:SD	2.42	0.76
1:pA:100:LYS:HG2	1:pG:100:LYS:HZ2	1.49	0.76
2:pJ:107:GLY:CA	2:pJ:184:TYR:OH	2.33	0.76
3:qd:65:GLY:C	4:qn:10:GLN:NE2	2.43	0.76
3:qf:67:ARG:CA	4:ql:194:LEU:HD13	2.16	0.76
3:qf:68:ALA:CB	4:ql:8:TYR:OH	2.34	0.76
1:ac:103:ARG:CZ	2:oT:61:GLY:CA	2.64	0.76
1:ao:103:ARG:O	2:hY:62:GLN:CD	2.27	0.76
1:aF:99:LEU:HD22	1:jW:60:ARG:HD3	1.67	0.76
1:aR:103:ARG:CZ	2:bl:61:GLY:CA	2.64	0.76
2:bp:197:LYS:C	2:dr:62:GLN:OE1	2.29	0.76
1:bG:102:GLU:OE1	1:gj:99:LEU:HA	1.86	0.76
2:bM:61:GLY:CA	1:hB:103:ARG:CZ	2.64	0.76
2:bO:62:GLN:HG3	2:lY:197:LYS:HE3	1.67	0.76
2:bQ:83:THR:OG1	2:bQ:204:PHE:O	2.03	0.76
1:ci:103:ARG:CZ	2:pv:61:GLY:CA	2.64	0.76
2:ds:63:ARG:NE	2:dv:205:MET:SD	2.57	0.76
2:dH:83:THR:OG1	2:dH:205:MET:SD	2.42	0.76
2:ei:107:GLY:HA3	2:ei:184:TYR:OH	1.86	0.76
2:eA:197:LYS:C	2:gD:62:GLN:OE1	2.29	0.76
1:eD:102:GLU:OE1	1:ff:99:LEU:HA	1.86	0.76
2:eJ:60:ILE:O	1:gv:103:ARG:CZ	2.33	0.76
2:eJ:62:GLN:OE1	2:gu:197:LYS:C	2.29	0.76
2:eY:107:GLY:HA3	2:eY:184:TYR:OH	1.86	0.76
1:fF:100:LYS:CG	1:mg:100:LYS:HZ1	1.96	0.76
2:fO:61:GLY:CA	1:lP:103:ARG:CZ	2.64	0.76
2:gc:63:ARG:NE	2:gf:205:MET:SD	2.57	0.76
1:gn:100:LYS:HZ3	1:hZ:100:LYS:CG	1.86	0.76
1:gA:105:THR:HG21	2:pj:60:ILE:HG23	1.68	0.76
2:gS:107:GLY:HA3	2:gS:184:TYR:OH	1.86	0.76
1:hn:60:ARG:CD	1:kK:99:LEU:CD1	2.44	0.76
2:hI:62:GLN:HG3	2:kU:197:LYS:HE3	1.67	0.76
1:it:100:LYS:HZ1	1:jT:100:LYS:CG	1.97	0.76
2:iY:85:GLY:O	2:kr:2:ALA:N	2.17	0.76
1:jw:99:LEU:HD22	1:kZ:60:ARG:HD3	1.67	0.76
2:jA:61:GLY:CA	1:kZ:103:ARG:CZ	2.64	0.76
2:kg:174:ASP:OD1	2:kg:214:ARG:NH2	2.18	0.76
2:kq:86:VAL:HG11	2:kq:102:LEU:HD11	1.66	0.76
2:kV:83:THR:OG1	2:kV:204:PHE:O	2.03	0.76
2:lf:107:GLY:CA	2:lf:184:TYR:OH	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lm:60:ARG:CD	1:pQ:99:LEU:CD1	2.44	0.76
2:my:86:VAL:HG11	2:my:102:LEU:HD11	1.66	0.76
2:ov:62:GLN:CD	1:oL:103:ARG:O	2.27	0.76
1:pp:103:ARG:CZ	2:pJ:61:GLY:CA	2.64	0.76
3:qd:65:GLY:N	4:qn:10:GLN:CD	2.33	0.76
3:qf:64:GLY:C	4:ql:10:GLN:NE2	2.43	0.76
3:qg:66:GLN:CB	4:qk:8:TYR:O	2.33	0.76
3:qi:61:ASP:O	4:qo:33:SER:CB	2.34	0.76
3:qi:65:GLY:CA	4:qo:10:GLN:NE2	2.49	0.76
3:qi:65:GLY:C	4:qo:10:GLN:HG2	2.10	0.76
2:ah:60:ILE:O	1:oi:103:ARG:CZ	2.33	0.76
1:aF:105:THR:HG21	2:nb:60:ILE:HG23	1.68	0.76
2:aN:174:ASP:OD1	2:aN:214:ARG:NH2	2.18	0.76
1:aQ:99:LEU:HA	1:ch:102:GLU:OE1	1.86	0.76
2:bl:107:GLY:CA	2:bl:184:TYR:OH	2.33	0.76
1:bt:103:ARG:CZ	2:hU:61:GLY:CA	2.64	0.76
2:bz:61:GLY:CA	1:cY:103:ARG:CZ	2.64	0.76
2:ca:107:GLY:HA3	2:ca:184:TYR:OH	1.86	0.76
2:ce:83:THR:OG1	2:ce:204:PHE:O	2.03	0.76
2:cs:197:LYS:C	2:pu:62:GLN:OE1	2.29	0.76
2:cC:107:GLY:HA3	2:cC:184:TYR:OH	1.86	0.76
1:cJ:99:LEU:CD1	1:po:60:ARG:CD	2.44	0.76
2:cS:60:ILE:HG23	1:pF:105:THR:HG21	1.68	0.76
2:dg:60:ILE:HG23	1:fi:105:THR:HG21	1.68	0.76
1:dz:60:ARG:CD	1:gx:99:LEU:CD1	2.44	0.76
2:dF:62:GLN:OE1	2:fc:197:LYS:C	2.29	0.76
2:dG:61:GLY:CA	1:eS:103:ARG:CZ	2.64	0.76
2:dW:60:ILE:HG23	1:jK:105:THR:HG21	1.68	0.76
2:eh:62:GLN:OE1	2:nF:197:LYS:C	2.29	0.76
2:ew:107:GLY:HA3	2:ew:184:TYR:OH	1.86	0.76
2:eK:107:GLY:CA	2:eK:184:TYR:OH	2.33	0.76
2:fb:197:LYS:HE3	2:iM:62:GLN:HG3	1.67	0.76
2:fl:198:GLU:HG3	1:ny:102:GLU:HA	1.67	0.76
2:fm:107:GLY:CA	2:fm:184:TYR:OH	2.33	0.76
2:fz:60:ILE:O	1:ns:103:ARG:CZ	2.33	0.76
2:fz:62:GLN:OE1	2:nr:197:LYS:C	2.29	0.76
2:fz:198:GLU:HG3	1:mg:102:GLU:HA	1.67	0.76
2:fA:85:GLY:O	2:of:2:ALA:N	2.17	0.76
1:fV:99:LEU:HA	1:mc:102:GLU:OE1	1.86	0.76
2:gR:62:GLN:OE1	2:im:197:LYS:C	2.29	0.76
1:hn:102:GLU:OE1	1:kK:99:LEU:HA	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hA:99:LEU:HA	1:kw:102:GLU:OE1	1.86	0.76
1:ip:99:LEU:HA	1:pQ:102:GLU:OE1	1.86	0.76
2:iX:198:GLU:HG3	1:jj:102:GLU:HA	1.67	0.76
2:jq:197:LYS:C	2:ls:62:GLN:OE1	2.29	0.76
1:jH:99:LEU:HA	1:oM:102:GLU:OE1	1.86	0.76
2:jN:62:GLN:OE1	2:pN:197:LYS:C	2.29	0.76
1:jY:105:THR:HG21	2:pZ:60:ILE:HG23	1.68	0.76
2:kt:182:LEU:CD2	5:qD:178:PRO:CD	2.58	0.76
1:kw:99:LEU:HA	1:lO:102:GLU:OE1	1.86	0.76
1:kL:103:ARG:CZ	2:mZ:61:GLY:CA	2.64	0.76
2:kR:107:GLY:HA3	2:kR:184:TYR:OH	1.86	0.76
2:lf:61:GLY:CA	1:mF:103:ARG:CZ	2.64	0.76
2:lh:62:GLN:HG3	2:nq:197:LYS:HE3	1.67	0.76
1:lA:102:GLU:OE1	1:oy:99:LEU:HA	1.86	0.76
2:lV:107:GLY:HA3	2:lV:184:TYR:OH	1.86	0.76
2:lZ:174:ASP:OD1	2:lZ:214:ARG:NH2	2.18	0.76
1:mE:102:GLU:OE1	1:ng:99:LEU:HA	1.86	0.76
2:mZ:107:GLY:HA3	2:mZ:184:TYR:OH	1.86	0.76
2:nQ:86:VAL:HG11	2:nQ:102:LEU:HD11	1.66	0.76
2:oT:107:GLY:HA3	2:oT:184:TYR:OH	1.86	0.76
2:pX:107:GLY:HA3	2:pX:184:TYR:OH	1.86	0.76
2:ai:61:GLY:CA	1:nX:103:ARG:CZ	2.64	0.76
2:av:61:GLY:CA	1:bH:103:ARG:CZ	2.64	0.76
2:ax:60:ILE:HG23	1:gm:105:THR:HG21	1.68	0.76
2:aN:197:LYS:C	2:iX:62:GLN:OE1	2.29	0.76
1:aO:103:ARG:CZ	2:iX:60:ILE:O	2.33	0.76
1:aQ:102:GLU:OE1	1:jf:99:LEU:HA	1.86	0.76
1:be:99:LEU:HA	1:iR:102:GLU:OE1	1.86	0.76
1:bh:105:THR:HG21	2:jo:60:ILE:HG23	1.68	0.76
2:bz:107:GLY:HA3	2:bz:184:TYR:OH	1.86	0.76
2:bB:60:ILE:HG23	1:dC:105:THR:HG21	1.68	0.76
2:bB:62:GLN:CG	2:dJ:197:LYS:CE	2.62	0.76
1:bE:103:ARG:CZ	2:hT:60:ILE:O	2.33	0.76
2:bL:111:GLY:CA	5:qr:178:PRO:HD3	2.15	0.76
1:cl:102:GLU:HA	2:iv:198:GLU:HG3	1.67	0.76
1:cv:99:LEU:CG	1:dN:60:ARG:NH2	2.49	0.76
2:cE:60:ILE:HG23	1:nL:105:THR:HG21	1.68	0.76
2:dK:174:ASP:OD1	2:dK:214:ARG:NH2	2.18	0.76
1:dL:103:ARG:CZ	2:pg:60:ILE:O	2.33	0.76
1:ec:99:LEU:CA	2:od:197:LYS:HZ1	1.98	0.76
2:el:197:LYS:HE3	2:ml:62:GLN:HG3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ff:102:GLU:OE1	1:ib:99:LEU:HA	1.86	0.76
1:fg:60:ARG:HD3	1:nx:99:LEU:HD22	1.67	0.76
2:fn:86:VAL:HG11	2:fn:102:LEU:HD11	1.66	0.76
1:fw:99:LEU:HD22	1:nh:60:ARG:HD3	1.67	0.76
2:fN:198:GLU:HG3	1:fZ:102:GLU:HA	1.67	0.76
1:gn:102:GLU:HA	2:hT:198:GLU:HG3	1.67	0.76
2:hx:174:ASP:OD1	2:hx:214:ARG:NH2	2.18	0.76
2:iv:60:ILE:O	1:jT:103:ARG:CZ	2.33	0.76
2:iK:107:GLY:HA3	2:iK:184:TYR:OH	1.86	0.76
1:ju:105:THR:HG21	2:pX:60:ILE:HG22	1.57	0.76
1:jx:102:GLU:HA	2:le:198:GLU:HG3	1.67	0.76
2:kb:60:ILE:O	1:ly:103:ARG:CZ	2.33	0.76
2:kV:197:LYS:C	2:mY:62:GLN:OE1	2.29	0.76
2:lj:83:THR:OG1	2:lj:204:PHE:O	2.03	0.76
1:md:60:ARG:HD3	1:mt:99:LEU:HD22	1.67	0.76
1:mH:99:LEU:HD22	1:ol:60:ARG:HD3	1.67	0.76
2:mO:197:LYS:HE3	2:oV:62:GLN:HG3	1.67	0.76
2:nm:62:GLN:OE1	2:oJ:197:LYS:C	2.29	0.76
2:nn:107:GLY:HA3	2:nn:184:TYR:OH	1.86	0.76
2:pv:107:GLY:HA3	2:pv:184:TYR:OH	1.86	0.76
3:qd:61:ASP:O	4:qn:33:SER:CB	2.34	0.76
3:qd:66:GLN:HA	4:qn:8:TYR:HD2	1.50	0.76
3:qi:65:GLY:N	4:qo:10:GLN:CD	2.40	0.76
4:qj:178:PHE:CZ	4:qk:39:LEU:HD23	2.21	0.76
5:qt:53:GLU:OE2	5:qv:35:HIS:HE1	1.66	0.76
1:ab:99:LEU:CG	1:ng:60:ARG:NH2	2.49	0.75
1:ab:102:GLU:OE1	1:mE:99:LEU:HA	1.86	0.75
2:ah:60:ILE:HG13	1:oi:105:THR:HG21	1.69	0.75
2:ah:62:GLN:OE1	2:oh:197:LYS:C	2.29	0.75
1:be:60:ARG:NH2	1:kj:99:LEU:CG	2.49	0.75
1:be:102:GLU:OE1	1:kj:99:LEU:HA	1.86	0.75
2:bn:60:ILE:HG23	1:ji:105:THR:HG21	1.68	0.75
1:cv:102:GLU:OE1	1:pC:99:LEU:HA	1.86	0.75
1:cJ:99:LEU:HA	1:po:102:GLU:OE1	1.86	0.75
1:cK:103:ARG:CZ	2:eY:61:GLY:CA	2.64	0.75
1:cX:102:GLU:OE1	1:dz:99:LEU:HA	1.86	0.75
1:dz:60:ARG:NH2	1:gx:99:LEU:CG	2.49	0.75
2:dF:60:ILE:O	1:fd:103:ARG:CZ	2.33	0.75
2:dT:60:ILE:HG13	1:oY:105:THR:HG21	1.69	0.75
2:dT:198:GLU:HG3	1:nM:102:GLU:HA	1.67	0.75
2:ew:63:ARG:NE	2:ez:205:MET:SD	2.57	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eB:105:THR:HG21	2:gD:60:ILE:HG13	1.69	0.75
2:eL:83:THR:OG1	2:eL:205:MET:SD	2.42	0.75
1:fx:102:GLU:HA	2:nm:198:GLU:HG3	1.67	0.75
1:fH:99:LEU:CG	1:gZ:60:ARG:NH2	2.49	0.75
1:fH:99:LEU:HA	1:gZ:102:GLU:OE1	1.86	0.75
1:fK:105:THR:HG21	2:kF:60:ILE:HG23	1.68	0.75
2:ge:62:GLN:HG3	2:mA:197:LYS:HE3	1.67	0.75
1:gj:60:ARG:NH2	1:gL:99:LEU:CG	2.49	0.75
1:gZ:99:LEU:CG	1:mq:60:ARG:NH2	2.49	0.75
2:hk:197:LYS:C	2:kC:62:GLN:OE1	2.29	0.75
1:ho:60:ARG:HD3	1:hD:99:LEU:HD22	1.68	0.75
1:hA:102:GLU:OE1	1:lO:99:LEU:HA	1.86	0.75
2:jl:198:GLU:HG3	1:lq:102:GLU:HA	1.67	0.75
2:jz:60:ILE:O	1:lk:103:ARG:CZ	2.33	0.75
2:jz:62:GLN:OE1	2:lj:197:LYS:C	2.29	0.75
2:kc:61:GLY:CA	1:ln:103:ARG:CZ	2.64	0.75
2:kD:107:GLY:HA3	2:kD:184:TYR:OH	1.86	0.75
2:lG:60:ILE:O	1:ne:103:ARG:CZ	2.33	0.75
2:lG:62:GLN:OE1	2:nd:197:LYS:C	2.29	0.75
2:mw:198:GLU:HG3	1:oC:102:GLU:HA	1.67	0.75
1:mE:60:ARG:NH2	1:ng:99:LEU:CG	2.49	0.75
2:mL:61:GLY:CA	1:ol:103:ARG:CZ	2.64	0.75
2:mL:107:GLY:HA3	2:mL:184:TYR:OH	1.86	0.75
2:no:86:VAL:HG11	2:no:102:LEU:HD11	1.66	0.75
2:nC:83:THR:OG1	2:nC:205:MET:SD	2.42	0.75
1:ok:60:ARG:NH2	1:oM:99:LEU:CG	2.49	0.75
2:or:61:GLY:CA	1:pR:103:ARG:CZ	2.64	0.75
2:pK:83:THR:OG1	2:pK:205:MET:SD	2.42	0.75
2:al:197:LYS:HE3	2:fC:62:GLN:HG3	1.67	0.75
2:aL:60:ILE:HG23	1:mV:105:THR:HG21	1.68	0.75
2:aN:83:THR:OG1	2:aN:204:PHE:O	2.03	0.75
2:aX:61:GLY:CA	1:iE:103:ARG:CZ	2.64	0.75
2:bl:63:ARG:NE	2:bo:205:MET:SD	2.57	0.75
1:bG:60:ARG:NH2	1:gj:99:LEU:CG	2.50	0.75
2:bL:184:TYR:CE2	5:qr:165:PRO:CG	2.68	0.75
1:bU:103:ARG:CZ	2:iK:61:GLY:CA	2.64	0.75
2:cG:197:LYS:C	2:cP:62:GLN:OE1	2.29	0.75
2:dF:198:GLU:HG3	1:pe:102:GLU:HA	1.67	0.75
2:ek:60:ILE:HG23	1:mf:105:THR:HG21	1.68	0.75
1:eq:103:ARG:CZ	2:gE:61:GLY:CA	2.64	0.75
2:eY:107:GLY:CA	2:eY:184:TYR:OH	2.33	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fA:61:GLY:CA	1:nh:103:ARG:CZ	2.64	0.75
1:gj:60:ARG:CD	1:gL:99:LEU:CD1	2.44	0.75
2:gE:107:GLY:HA3	2:gE:184:TYR:OH	1.86	0.75
1:gZ:99:LEU:HA	1:mq:102:GLU:OE1	1.86	0.75
1:hl:105:THR:HG21	2:kC:60:ILE:HG13	1.69	0.75
1:hq:99:LEU:HD22	1:kk:60:ARG:HD3	1.68	0.75
2:ht:61:GLY:CA	1:kk:103:ARG:CZ	2.64	0.75
2:hJ:197:LYS:HE3	2:kT:62:GLN:HG3	1.67	0.75
2:ii:63:ARG:NE	2:il:205:MET:SD	2.57	0.75
2:ii:107:GLY:HA3	2:ii:184:TYR:OH	1.86	0.75
2:iw:107:GLY:HA3	2:iw:184:TYR:OH	1.86	0.75
2:iY:107:GLY:HA3	2:iY:184:TYR:OH	1.86	0.75
2:jC:60:ILE:HG23	1:lD:105:THR:HG21	1.68	0.75
2:kb:62:GLN:OE1	2:lx:197:LYS:C	2.29	0.75
1:kL:60:ARG:HD3	1:mV:99:LEU:HD22	1.67	0.75
1:kY:60:ARG:NH2	1:lA:99:LEU:CG	2.49	0.75
1:lD:99:LEU:HD22	1:mT:60:ARG:HD3	1.67	0.75
2:lI:83:THR:OG1	2:lI:205:MET:SD	2.42	0.75
1:mI:102:GLU:HA	2:oq:198:GLU:HG3	1.67	0.75
2:mM:86:VAL:HG11	2:mM:102:LEU:HD11	1.66	0.75
2:na:83:THR:OG1	2:na:205:MET:SD	2.42	0.75
5:qt:392:LEU:CD1	5:qv:400:TYR:OH	2.28	0.75
5:qH:392:LEU:HD13	5:qJ:400:TYR:CZ	2.12	0.75
2:am:197:LYS:C	2:oS:62:GLN:OE1	2.29	0.75
1:ap:99:LEU:CG	1:hN:60:ARG:NH2	2.49	0.75
1:aQ:60:ARG:NH2	1:jf:99:LEU:CG	2.49	0.75
1:bE:105:THR:HG21	2:hT:60:ILE:HG13	1.69	0.75
2:bQ:108:ARG:N	5:qp:176:ASN:HB3	2.01	0.75
1:ci:60:ARG:HD3	1:pr:99:LEU:HD22	1.67	0.75
2:co:61:GLY:CA	1:iq:103:ARG:CZ	2.64	0.75
1:cz:102:GLU:HA	2:pg:198:GLU:HG3	1.67	0.75
2:cC:61:GLY:CA	1:pb:103:ARG:CZ	2.64	0.75
1:cM:105:THR:HG21	2:pL:60:ILE:HG23	1.68	0.75
2:dt:83:THR:OG1	2:dt:205:MET:SD	2.42	0.75
2:dF:60:ILE:HG13	1:fd:105:THR:HG21	1.69	0.75
1:dO:60:ARG:HD3	1:nL:99:LEU:HD22	1.67	0.75
1:ec:103:ARG:CZ	2:ew:61:GLY:CA	2.64	0.75
2:eh:60:ILE:O	1:nG:103:ARG:CZ	2.33	0.75
2:eK:61:GLY:CA	1:gk:103:ARG:CZ	2.64	0.75
2:fm:61:GLY:CA	1:gy:103:ARG:CZ	2.64	0.75
2:fE:197:LYS:C	2:mi:62:GLN:OE1	2.29	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fN:60:ILE:HG13	1:ma:105:THR:HG21	1.69	0.75
2:gp:60:ILE:HG13	1:hZ:105:THR:HG21	1.69	0.75
2:hf:60:ILE:HG13	1:lM:105:THR:HG21	1.69	0.75
2:hv:60:ILE:HG23	1:iU:105:THR:HG21	1.68	0.75
2:im:83:THR:OG1	2:im:204:PHE:O	2.03	0.75
1:it:102:GLU:HA	2:jN:198:GLU:HG3	1.67	0.75
2:iv:62:GLN:OE1	2:jS:197:LYS:C	2.29	0.75
1:jF:103:ARG:CZ	2:pW:60:ILE:O	2.33	0.75
1:jH:99:LEU:CD1	1:oM:60:ARG:CD	2.44	0.75
2:kc:107:GLY:HA3	2:kc:184:TYR:OH	1.86	0.75
2:lf:63:ARG:NE	2:li:205:MET:SD	2.57	0.75
1:lm:102:GLU:OE1	1:pQ:99:LEU:HA	1.86	0.75
2:mj:63:ARG:NE	2:mm:205:MET:SD	2.57	0.75
2:mB:197:LYS:C	2:oE:62:GLN:OE1	2.29	0.75
2:nm:60:ILE:HG13	1:oK:105:THR:HG21	1.69	0.75
2:nF:83:THR:OG1	2:nF:204:PHE:O	2.03	0.75
2:oX:83:THR:OG1	2:oX:204:PHE:O	2.03	0.75
2:pJ:107:GLY:HA3	2:pJ:184:TYR:OH	1.86	0.75
1:ab:99:LEU:HA	1:ng:102:GLU:OE1	1.86	0.75
2:av:107:GLY:HA3	2:av:184:TYR:OH	1.86	0.75
1:aC:102:GLU:OE1	1:hn:99:LEU:HA	1.86	0.75
2:aK:83:THR:OG1	2:aK:205:MET:SD	2.42	0.75
2:bQ:182:LEU:CD1	5:qp:176:ASN:OD1	2.34	0.75
2:cB:198:GLU:HG3	1:cN:102:GLU:HA	1.67	0.75
1:cH:103:ARG:CZ	2:cP:60:ILE:O	2.33	0.75
1:cH:105:THR:HG21	2:cP:60:ILE:HG13	1.69	0.75
1:dA:103:ARG:CZ	2:ph:61:GLY:CA	2.64	0.75
2:dG:107:GLY:HA3	2:dG:184:TYR:OH	1.86	0.75
1:dO:103:ARG:CZ	2:nP:61:GLY:CA	2.64	0.75
2:eh:60:ILE:HG13	1:nG:105:THR:HG21	1.69	0.75
2:ex:83:THR:OG1	2:ex:205:MET:SD	2.42	0.75
1:fr:105:THR:HG21	2:nA:60:ILE:HG13	1.69	0.75
1:fF:105:THR:HG21	2:mi:60:ILE:HG13	1.69	0.75
1:fH:102:GLU:OE1	1:mq:99:LEU:HA	1.86	0.75
1:fI:60:ARG:HD3	1:fY:99:LEU:HD22	1.68	0.75
2:fN:62:GLN:OE1	2:lZ:197:LYS:C	2.29	0.75
2:gR:60:ILE:HG13	1:in:105:THR:HG21	1.69	0.75
2:iL:83:THR:OG1	2:iL:205:MET:SD	2.42	0.75
1:jd:105:THR:HG21	2:jl:60:ILE:HG13	1.69	0.75
1:jH:99:LEU:CG	1:oM:60:ARG:NH2	2.49	0.75
2:kt:83:THR:OG1	2:kt:204:PHE:O	2.03	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lh:60:ILE:HG23	1:nj:105:THR:HG21	1.68	0.75
2:lH:61:GLY:CA	1:mT:103:ARG:CZ	2.64	0.75
2:II:86:VAL:HG11	2:II:102:LEU:HD11	1.66	0.75
1:mc:99:LEU:HA	1:nu:102:GLU:OE1	1.86	0.75
2:nP:107:GLY:HA3	2:nP:184:TYR:OH	1.86	0.75
2:nT:197:LYS:C	2:oc:62:GLN:OE1	2.29	0.75
2:pJ:63:ARG:NE	2:pM:205:MET:SD	2.57	0.75
3:qe:25:LEU:HD21	6:qy:82:VAL:CG2	2.16	0.75
4:qj:39:LEU:HD23	4:qo:178:PHE:CZ	2.22	0.75
4:qn:178:PHE:CZ	4:qo:39:LEU:HD23	2.22	0.75
2:ak:60:ILE:HG23	1:fw:105:THR:HG21	1.68	0.75
1:ap:60:ARG:NH2	1:dl:99:LEU:CG	2.49	0.75
1:aG:102:GLU:HA	2:kb:198:GLU:HG3	1.67	0.75
2:ba:197:LYS:CE	2:px:62:GLN:CG	2.62	0.75
1:bw:102:GLU:HA	2:dd:198:GLU:HG3	1.67	0.75
2:cd:53:PHE:O	2:cd:255:ARG:NH2	2.20	0.75
1:cw:103:ARG:CZ	2:cQ:61:GLY:CA	2.64	0.75
2:de:61:GLY:CA	1:eE:103:ARG:CZ	2.64	0.75
2:du:62:GLN:HG3	2:ks:197:LYS:HE3	1.67	0.75
1:dN:99:LEU:HA	1:pC:102:GLU:OE1	1.86	0.75
2:dU:61:GLY:CA	1:oN:103:ARG:CZ	2.64	0.75
2:dU:107:GLY:HA3	2:dU:184:TYR:OH	1.86	0.75
1:eD:99:LEU:CG	1:ib:60:ARG:NH2	2.49	0.75
2:fz:60:ILE:HG13	1:ns:105:THR:HG21	1.69	0.75
2:fA:107:GLY:HA3	2:fA:184:TYR:OH	1.86	0.75
2:fQ:62:GLN:HG3	2:kG:197:LYS:HE3	1.67	0.75
2:fS:83:THR:OG1	2:fS:204:PHE:O	2.03	0.75
2:gd:83:THR:OG1	2:gd:205:MET:SD	2.42	0.75
2:gH:53:PHE:O	2:gH:255:ARG:NH2	2.20	0.75
1:hc:99:LEU:HD22	1:lB:60:ARG:HD3	1.68	0.75
2:hv:62:GLN:HG3	2:jb:197:LYS:HE3	1.67	0.75
1:jg:60:ARG:HD3	1:lp:99:LEU:HD22	1.67	0.75
1:jr:105:THR:HG21	2:ls:60:ILE:HG13	1.69	0.75
2:jD:53:PHE:O	2:jD:255:ARG:NH2	2.20	0.75
2:jS:174:ASP:OD1	2:jS:214:ARG:NH2	2.18	0.75
2:lf:60:ILE:HG22	1:mF:105:THR:HG21	1.57	0.75
2:lW:83:THR:OG1	2:lW:205:MET:SD	2.42	0.75
1:mc:99:LEU:CG	1:nu:60:ARG:NH2	2.49	0.75
2:mi:198:GLU:HG3	1:mu:102:GLU:HA	1.67	0.75
2:mK:60:ILE:O	1:ow:103:ARG:CZ	2.33	0.75
2:nc:53:PHE:O	2:nc:255:ARG:NH2	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:nI:99:LEU:HA	1:pa:102:GLU:OE1	1.86	0.75
1:nJ:103:ARG:CZ	2:od:61:GLY:CA	2.64	0.75
2:nS:53:PHE:O	2:nS:255:ARG:NH2	2.20	0.75
1:pp:60:ARG:HD3	1:pF:99:LEU:HD22	1.67	0.75
2:pM:53:PHE:O	2:pM:255:ARG:NH2	2.20	0.75
4:qm:178:PHE:CZ	4:qn:39:LEU:HD23	2.22	0.75
4:qm:214:GLN:O	4:qn:38:GLN:HG2	1.86	0.75
5:qB:394:ILE:HD11	5:qD:405:ILE:HG23	1.68	0.75
5:qH:245:ASP:OD2	6:qK:121:VAL:HG21	1.84	0.75
1:aC:60:ARG:NH2	1:hn:99:LEU:CG	2.49	0.75
1:aU:102:GLU:HA	2:iJ:198:GLU:HG3	1.67	0.75
2:bo:53:PHE:O	2:bo:255:ARG:NH2	2.20	0.75
1:bs:60:ARG:NH2	1:bT:99:LEU:CG	2.49	0.75
1:bK:100:LYS:HZ1	1:hL:100:LYS:CD	2.00	0.75
1:bU:60:ARG:HD3	1:iG:99:LEU:HD22	1.67	0.75
1:bW:105:THR:HG21	2:hW:60:ILE:HG23	1.68	0.75
2:ca:61:GLY:CA	1:dm:103:ARG:CZ	2.64	0.75
1:cv:99:LEU:HA	1:dN:102:GLU:OE1	1.86	0.75
1:cJ:99:LEU:CG	1:po:60:ARG:NH2	2.49	0.75
1:cK:60:ARG:HD3	1:eU:99:LEU:HD22	1.67	0.75
1:do:105:THR:HG21	2:kr:60:ILE:HG23	1.68	0.75
1:dD:102:GLU:HA	2:eX:198:GLU:HG3	1.67	0.75
2:dX:53:PHE:O	2:dX:255:ARG:NH2	2.20	0.75
1:ee:99:LEU:HD22	1:nv:60:ARG:HD3	1.67	0.75
2:ej:86:VAL:HG11	2:ej:102:LEU:HD11	1.66	0.75
1:ep:99:LEU:CD1	1:nI:60:ARG:CD	2.44	0.75
2:eM:60:ILE:HG23	1:gO:105:THR:HG21	1.68	0.75
1:fL:102:GLU:HA	2:lU:198:GLU:HG3	1.67	0.75
2:gg:197:LYS:C	2:ih:62:GLN:OE1	2.29	0.75
1:hy:100:LYS:CD	1:hE:100:LYS:HZ1	2.00	0.75
2:hG:107:GLY:HA3	2:hG:184:TYR:OH	1.86	0.75
2:hU:107:GLY:HA3	2:hU:184:TYR:OH	1.86	0.75
1:jt:99:LEU:HA	1:mS:102:GLU:OE1	1.86	0.75
2:jB:83:THR:OG1	2:jB:205:MET:SD	2.42	0.75
1:jZ:100:LYS:HZ1	1:ly:100:LYS:CD	1.99	0.75
2:kc:63:ARG:NE	2:kf:205:MET:SD	2.57	0.75
1:kY:102:GLU:OE1	1:lA:99:LEU:HA	1.86	0.75
1:lb:105:THR:HG21	2:np:60:ILE:HG23	1.68	0.75
2:le:62:GLN:OE1	2:mP:197:LYS:C	2.29	0.75
1:lA:60:ARG:NH2	1:oy:99:LEU:CG	2.49	0.75
2:mK:62:GLN:OE1	2:ov:197:LYS:C	2.29	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mn:61:GLY:CA	1:oz:103:ARG:CZ	2.64	0.75
2:od:107:GLY:HA3	2:od:184:TYR:OH	1.86	0.75
2:oq:60:ILE:HG13	1:qc:105:THR:HG21	1.69	0.75
3:qd:25:LEU:HD21	6:qu:82:VAL:CG2	2.16	0.75
3:qe:66:GLN:H	4:qm:10:GLN:N	1.85	0.75
4:qj:218:LEU:HD13	4:qk:189:TYR:HD2	1.49	0.75
4:qk:178:PHE:CZ	4:ql:39:LEU:HD23	2.21	0.75
4:ql:214:GLN:O	4:qm:38:GLN:HG2	1.85	0.75
2:av:60:ILE:HG22	1:bH:105:THR:HG23	1.69	0.75
2:ax:61:GLY:O	1:gm:103:ARG:CD	2.35	0.75
2:az:183:ILE:CD1	5:qH:178:PRO:HB2	2.17	0.75
1:aF:103:ARG:CD	2:nb:61:GLY:O	2.35	0.75
2:aI:198:GLU:HG3	1:iV:102:GLU:HA	1.67	0.75
2:bl:107:GLY:HA3	2:bl:184:TYR:OH	1.86	0.75
1:bs:102:GLU:OE1	1:bT:99:LEU:HA	1.86	0.75
2:by:60:ILE:O	1:dj:103:ARG:CZ	2.33	0.75
1:bX:99:LEU:HG	1:dx:102:GLU:OE2	1.74	0.75
2:cq:61:GLY:O	1:lp:103:ARG:CD	2.35	0.75
2:cU:197:LYS:C	2:eX:62:GLN:OE1	2.29	0.75
2:di:83:THR:OG1	2:di:204:PHE:O	2.03	0.75
1:dA:60:ARG:HD3	1:pd:99:LEU:HD22	1.67	0.75
1:eb:60:ARG:NH2	1:nW:99:LEU:CG	2.49	0.75
1:eH:102:GLU:HA	2:gp:198:GLU:HG3	1.67	0.75
2:eK:60:ILE:HG22	1:gk:105:THR:HG23	1.69	0.75
1:fg:103:ARG:CZ	2:nB:61:GLY:CA	2.64	0.75
1:fI:103:ARG:CZ	2:gc:61:GLY:CA	2.64	0.75
1:gM:103:ARG:CZ	2:IV:61:GLY:CA	2.64	0.75
1:hd:100:LYS:NZ	1:IM:100:LYS:CG	2.40	0.75
2:hg:60:ILE:HG22	1:lB:105:THR:HG23	1.69	0.75
2:iz:53:PHE:O	2:iz:255:ARG:NH2	2.20	0.75
2:jm:107:GLY:HA3	2:jm:184:TYR:OH	1.86	0.75
1:ju:103:ARG:CZ	2:pX:61:GLY:CA	2.64	0.75
2:ko:104:GLN:NE2	5:qH:26:ALA:C	2.45	0.75
2:kC:198:GLU:HG3	1:kO:102:GLU:HA	1.67	0.75
1:kW:105:THR:HG21	2:mY:60:ILE:HG13	1.69	0.75
1:kY:99:LEU:CG	1:oy:60:ARG:NH2	2.49	0.75
2:lf:107:GLY:HA3	2:lf:184:TYR:OH	1.86	0.75
2:li:53:PHE:O	2:li:255:ARG:NH2	2.20	0.75
2:IY:53:PHE:O	2:IY:255:ARG:NH2	2.20	0.75
2:pN:83:THR:OG1	2:pN:204:PHE:O	2.03	0.75
2:pY:86:VAL:HG11	2:pY:102:LEU:HD11	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ac:105:THR:HG23	2:oT:60:ILE:HG22	1.69	0.75
1:ae:103:ARG:CD	2:fC:61:GLY:O	2.35	0.75
2:aZ:61:GLY:O	1:pr:103:ARG:CD	2.35	0.75
1:bG:99:LEU:CG	1:gL:60:ARG:NH2	2.49	0.75
1:bG:99:LEU:HA	1:gL:102:GLU:OE1	1.86	0.75
2:bO:60:ILE:HG23	1:lR:105:THR:HG21	1.68	0.75
2:ca:60:ILE:HG22	1:dm:105:THR:HG23	1.69	0.75
1:cy:103:ARG:CD	2:nR:61:GLY:O	2.35	0.75
2:cQ:107:GLY:HA3	2:cQ:184:TYR:OH	1.86	0.75
2:dG:63:ARG:NE	2:dJ:205:MET:SD	2.57	0.75
1:dL:100:LYS:CG	1:pe:100:LYS:NZ	2.40	0.75
2:ei:63:ARG:NE	2:el:205:MET:SD	2.57	0.75
1:es:105:THR:HG21	2:of:60:ILE:HG23	1.68	0.75
1:eG:103:ARG:CD	2:gU:61:GLY:O	2.35	0.75
1:eU:105:THR:HG21	2:iM:60:ILE:HG23	1.68	0.75
2:fa:60:ILE:HG23	1:iG:105:THR:HG21	1.68	0.75
1:ft:99:LEU:HA	1:nW:102:GLU:OE1	1.86	0.75
2:fQ:60:ILE:HG23	1:kz:105:THR:HG21	1.68	0.75
2:gq:63:ARG:NE	2:gt:205:MET:SD	2.57	0.75
2:gG:60:ILE:HG23	1:pd:105:THR:HG21	1.68	0.75
2:hj:197:LYS:HE3	2:oH:62:GLN:HG3	1.67	0.75
1:ho:103:ARG:CZ	2:hG:61:GLY:CA	2.64	0.75
1:ip:99:LEU:CG	1:pQ:60:ARG:NH2	2.49	0.75
2:iw:61:GLY:CA	1:jI:103:ARG:CZ	2.64	0.75
1:iR:99:LEU:CG	1:kj:60:ARG:NH2	2.49	0.75
1:iS:60:ARG:HD3	1:ji:99:LEU:HD22	1.67	0.75
2:jz:198:GLU:HG3	1:pU:102:GLU:HA	1.67	0.75
2:jN:60:ILE:HG13	1:pO:105:THR:HG21	1.69	0.75
2:jO:107:GLY:HA3	2:jO:184:TYR:OH	1.86	0.75
2:kc:60:ILE:CG2	1:ln:105:THR:CG2	2.62	0.75
1:lB:99:LEU:HA	2:oF:197:LYS:HZ1	1.51	0.75
2:mM:83:THR:OG1	2:mM:205:MET:SD	2.42	0.75
2:nn:63:ARG:NE	2:nq:205:MET:SD	2.57	0.75
2:nE:53:PHE:O	2:nE:255:ARG:NH2	2.20	0.75
1:nI:99:LEU:CG	1:pa:60:ARG:NH2	2.49	0.75
2:nO:198:GLU:HG3	1:oa:102:GLU:HA	1.67	0.75
2:oT:63:ARG:NE	2:oW:205:MET:SD	2.57	0.75
3:qg:66:GLN:O	4:qk:10:GLN:CD	2.30	0.75
3:qh:66:GLN:HA	4:qj:8:TYR:CD2	2.21	0.75
4:ql:177:MET:HE1	4:qm:206:TYR:CE1	2.22	0.75
1:aD:103:ARG:CZ	2:iY:61:GLY:CA	2.64	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aJ:61:GLY:CA	1:jW:103:ARG:CZ	2.64	0.75
1:bq:105:THR:HG21	2:dr:60:ILE:HG13	1.69	0.75
1:bT:60:ARG:CD	1:eR:99:LEU:CD1	2.44	0.75
1:ck:103:ARG:CD	2:lv:61:GLY:O	2.35	0.75
1:cz:100:LYS:HZ1	1:pm:100:LYS:CD	1.98	0.75
2:cS:61:GLY:O	1:pF:103:ARG:CD	2.35	0.75
1:dl:60:ARG:NH2	1:hN:99:LEU:CG	2.49	0.75
1:eb:99:LEU:HA	1:ft:102:GLU:OE1	1.86	0.75
1:ec:60:ARG:HD3	1:es:99:LEU:HD22	1.67	0.75
1:ep:99:LEU:HA	1:nI:102:GLU:OE1	1.86	0.75
2:fm:107:GLY:HA3	2:fm:184:TYR:OH	1.86	0.75
2:fD:53:PHE:O	2:fD:255:ARG:NH2	2.20	0.75
2:fE:83:THR:OG1	2:fE:204:PHE:O	2.03	0.75
1:fH:60:ARG:NH2	1:mq:99:LEU:CG	2.49	0.75
2:gb:198:GLU:HG3	1:if:102:GLU:HA	1.67	0.75
1:hd:102:GLU:HA	2:lG:198:GLU:HG3	1.67	0.75
2:hw:53:PHE:O	2:hw:255:ARG:NH2	2.20	0.75
1:ip:60:ARG:CD	1:lm:99:LEU:CD1	2.44	0.75
1:is:103:ARG:CD	2:ot:61:GLY:O	2.35	0.75
1:iR:99:LEU:HD22	1:kj:102:GLU:CB	1.98	0.75
1:iS:103:ARG:CZ	2:jm:61:GLY:CA	2.64	0.75
2:kb:60:ILE:HG13	1:ly:105:THR:HG21	1.69	0.75
2:ko:170:TRP:HE1	5:qF:30:LYS:HG3	1.50	0.75
2:kq:83:THR:OG1	2:kq:205:MET:SD	2.42	0.75
2:lV:63:ARG:NE	2:lY:205:MET:SD	2.57	0.75
2:mA:53:PHE:O	2:mA:255:ARG:NH2	2.20	0.75
2:og:53:PHE:O	2:og:255:ARG:NH2	2.20	0.75
2:oF:63:ARG:NE	2:oI:205:MET:SD	2.57	0.75
2:ph:63:ARG:NE	2:pk:205:MET:SD	2.57	0.75
1:pA:105:THR:HG21	2:pI:60:ILE:HG13	1.69	0.75
4:qm:177:MET:HE1	4:qn:206:TYR:CE1	2.22	0.75
5:qv:394:ILE:HD11	5:qx:405:ILE:HG23	1.68	0.75
1:ap:99:LEU:HA	1:hN:102:GLU:OE1	1.86	0.74
1:aq:105:THR:HG23	2:kp:60:ILE:HG22	1.69	0.74
2:aI:60:ILE:HG13	1:kh:105:THR:HG21	1.69	0.74
2:aM:53:PHE:O	2:aM:255:ARG:NH2	2.20	0.74
2:aW:62:GLN:OE1	2:iO:197:LYS:C	2.29	0.74
2:aX:107:GLY:HA3	2:aX:184:TYR:OH	1.86	0.74
1:bX:102:GLU:HA	2:dr:198:GLU:HG3	1.67	0.74
2:bZ:198:GLU:HG3	1:iH:102:GLU:HA	1.67	0.74
2:cb:83:THR:OG1	2:cb:205:MET:SD	2.42	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ce:197:LYS:C	2:iJ:62:GLN:OE1	2.29	0.74
2:cT:53:PHE:O	2:cT:255:ARG:NH2	2.20	0.74
1:cV:105:THR:HG21	2:eX:60:ILE:HG13	1.69	0.74
1:cX:60:ARG:NH2	1:dz:99:LEU:CG	2.49	0.74
2:dg:61:GLY:O	1:fi:103:ARG:CD	2.35	0.74
2:du:60:ILE:HG23	1:km:105:THR:HG21	1.68	0.74
2:dW:61:GLY:O	1:jK:103:ARG:CD	2.35	0.74
1:eb:99:LEU:CG	1:ft:60:ARG:NH2	2.49	0.74
2:ei:61:GLY:CA	1:nv:103:ARG:CZ	2.64	0.74
1:eD:60:ARG:NH2	1:ff:99:LEU:CG	2.49	0.74
2:fO:63:ARG:NE	2:fr:205:MET:SD	2.57	0.74
1:fV:99:LEU:CG	1:mc:60:ARG:NH2	2.49	0.74
2:gq:61:GLY:CA	1:hO:103:ARG:CZ	2.64	0.74
2:gS:61:GLY:CA	1:ic:103:ARG:CZ	2.64	0.74
1:ip:60:ARG:NH2	1:lm:99:LEU:CG	2.49	0.74
1:iD:60:ARG:NH2	1:po:99:LEU:CG	2.49	0.74
2:jn:83:THR:OG1	2:jn:205:MET:SD	2.42	0.74
1:jY:103:ARG:CD	2:pZ:61:GLY:O	2.35	0.74
1:kx:103:ARG:CZ	2:kR:61:GLY:CA	2.64	0.74
2:le:60:ILE:HG13	1:mQ:105:THR:HG21	1.69	0.74
2:lf:60:ILE:HG22	1:mF:105:THR:HG23	1.69	0.74
1:md:103:ARG:CZ	2:mx:61:GLY:CA	2.64	0.74
1:mo:105:THR:HG21	2:mw:60:ILE:HG13	1.69	0.74
2:mx:107:GLY:HA3	2:mx:184:TYR:OH	1.86	0.74
2:mO:53:PHE:O	2:mO:255:ARG:NH2	2.20	0.74
2:nB:107:GLY:HA3	2:nB:184:TYR:OH	1.86	0.74
2:pt:60:ILE:HG21	1:pE:105:THR:CG2	2.18	0.74
3:qe:55:GLU:CB	4:qm:223:ASN:ND2	2.49	0.74
3:qi:65:GLY:N	4:qn:219:ILE:HG23	2.02	0.74
1:aQ:103:ARG:CZ	2:kp:61:GLY:CA	2.64	0.74
2:aJ:60:ILE:CG2	1:jW:105:THR:CG2	2.62	0.74
1:aQ:99:LEU:CG	1:ch:60:ARG:NH2	2.49	0.74
1:aT:103:ARG:CD	2:px:61:GLY:O	2.35	0.74
2:aZ:60:ILE:HG23	1:pr:105:THR:HG21	1.68	0.74
1:bc:105:THR:HG21	2:bk:60:ILE:HG13	1.69	0.74
1:bh:103:ARG:CD	2:jo:61:GLY:O	2.35	0.74
2:bO:61:GLY:O	1:lR:103:ARG:CD	2.35	0.74
2:bP:53:PHE:O	2:bP:255:ARG:NH2	2.20	0.74
2:bZ:62:GLN:OE1	2:dw:197:LYS:C	2.29	0.74
1:ch:99:LEU:CG	1:jf:60:ARG:NH2	2.50	0.74
1:cy:99:LEU:HD22	1:pb:60:ARG:HD3	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dh:12:LEU:HD11	2:fp:94:ASP:HB2	1.70	0.74
2:dh:53:PHE:O	2:dh:255:ARG:NH2	2.20	0.74
2:eN:53:PHE:O	2:eN:255:ARG:NH2	2.20	0.74
2:fa:62:GLN:HG3	2:iN:197:LYS:HE3	1.67	0.74
1:fu:105:THR:HG23	2:mj:60:ILE:HG22	1.69	0.74
2:fr:197:LYS:HE3	2:kF:62:GLN:HG3	1.67	0.74
1:fV:102:GLU:OE1	1:nu:99:LEU:HA	1.86	0.74
1:fW:103:ARG:CZ	2:ii:61:GLY:CA	2.64	0.74
2:gf:197:LYS:HE3	2:mz:62:GLN:HG3	1.67	0.74
2:gt:53:PHE:O	2:gt:255:ARG:NH2	2.20	0.74
2:hg:60:ILE:HG22	1:lB:105:THR:HG21	1.57	0.74
1:hn:60:ARG:NH2	1:kK:99:LEU:CG	2.49	0.74
1:hD:103:ARG:CD	2:kT:61:GLY:O	2.35	0.74
2:hF:32:LEU:HD11	5:qv:179:ALA:N	2.01	0.74
2:hF:32:LEU:HA	5:qv:178:PRO:CG	2.17	0.74
2:hG:197:LYS:HZ1	1:kx:99:LEU:CA	2.00	0.74
1:ir:105:THR:CG2	2:jM:60:ILE:HG21	2.18	0.74
1:iR:99:LEU:HA	1:kj:102:GLU:OE1	1.86	0.74
1:jV:60:ARG:CD	1:mS:99:LEU:CD1	2.44	0.74
2:ko:104:GLN:CD	5:qH:27:GLY:HA2	2.12	0.74
2:kp:107:GLY:HA3	2:kp:184:TYR:OH	1.86	0.74
2:lH:107:GLY:HA3	2:lH:184:TYR:OH	1.86	0.74
2:mh:60:ILE:HG21	1:ms:105:THR:CG2	2.17	0.74
1:mr:60:ARG:HD3	1:oB:99:LEU:HD22	1.67	0.74
1:mr:105:THR:HG23	2:oF:60:ILE:HG22	1.69	0.74
2:ou:53:PHE:O	2:ou:255:ARG:NH2	2.20	0.74
2:oI:53:PHE:O	2:oI:255:ARG:NH2	2.20	0.74
2:py:53:PHE:O	2:py:255:ARG:NH2	2.20	0.74
4:qk:214:GLN:O	4:ql:38:GLN:HG2	1.86	0.74
2:ai:60:ILE:HG22	1:nX:105:THR:HG23	1.69	0.74
2:aV:60:ILE:HG21	1:bg:105:THR:CG2	2.18	0.74
1:bv:99:LEU:HD22	1:cY:60:ARG:HD3	1.67	0.74
1:bJ:102:GLU:CD	1:lN:99:LEU:CD1	2.60	0.74
2:bQ:108:ARG:N	5:qp:176:ASN:O	2.20	0.74
2:cn:198:GLU:HG3	1:ps:102:GLU:HA	1.67	0.74
2:cF:53:PHE:O	2:cF:255:ARG:NH2	2.20	0.74
2:cO:60:ILE:HG21	1:eT:105:THR:CG2	2.18	0.74
1:cY:99:LEU:CA	2:dG:197:LYS:HZ1	2.00	0.74
1:dQ:105:THR:HG21	2:jQ:60:ILE:HG23	1.68	0.74
2:dS:60:ILE:HG21	1:nK:105:THR:CG2	2.18	0.74
1:ef:99:LEU:HG	1:nG:102:GLU:OE2	1.74	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ek:61:GLY:O	1:mf:103:ARG:CD	2.35	0.74
1:en:100:LYS:CD	1:et:100:LYS:HZ1	2.00	0.74
2:ey:61:GLY:O	1:nZ:103:ARG:CD	2.35	0.74
2:eJ:60:ILE:HG13	1:gv:105:THR:HG21	1.69	0.74
1:ff:60:ARG:CD	1:ib:99:LEU:CD1	2.44	0.74
1:fK:103:ARG:CD	2:kF:61:GLY:O	2.35	0.74
1:fL:100:LYS:HZ1	1:ma:100:LYS:CG	1.98	0.74
2:fR:53:PHE:O	2:fR:255:ARG:NH2	2.20	0.74
1:gN:105:THR:CG2	2:ig:60:ILE:HG21	2.18	0.74
2:gS:60:ILE:HG22	1:ic:105:THR:HG23	1.69	0.74
1:ha:103:ARG:CZ	2:kD:61:GLY:CA	2.64	0.74
2:hg:61:GLY:CA	1:lB:103:ARG:CZ	2.64	0.74
2:hg:107:GLY:HA3	2:hg:184:TYR:OH	1.86	0.74
2:hK:183:ILE:N	5:qt:177:SER:C	2.37	0.74
2:jk:60:ILE:HG21	1:lo:105:THR:CG2	2.18	0.74
2:jp:53:PHE:O	2:jp:255:ARG:NH2	2.20	0.74
1:jt:99:LEU:CG	1:mS:60:ARG:NH2	2.49	0.74
2:jA:107:GLY:HA3	2:jA:184:TYR:OH	1.86	0.74
2:jC:62:GLN:HG3	2:lK:197:LYS:HE3	1.67	0.74
1:jL:102:GLU:HA	2:pI:198:GLU:HG3	1.67	0.74
1:kx:105:THR:HG23	2:kR:60:ILE:HG22	1.69	0.74
2:lw:53:PHE:O	2:lw:255:ARG:NH2	2.20	0.74
2:mj:107:GLY:HA3	2:mj:184:TYR:OH	1.86	0.74
1:ok:102:GLU:OE1	1:oM:99:LEU:HA	1.86	0.74
2:oU:83:THR:OG1	2:oU:205:MET:SD	2.42	0.74
3:qd:64:GLY:C	4:qm:220:SER:O	2.29	0.74
1:ac:60:ARG:HD3	1:oP:99:LEU:HD22	1.67	0.74
1:ad:105:THR:CG2	2:ob:60:ILE:HG21	2.18	0.74
2:ai:107:GLY:HA3	2:ai:184:TYR:OH	1.86	0.74
2:av:197:LYS:HZ2	1:hO:99:LEU:C	1.93	0.74
1:aD:60:ARG:HD3	1:iU:99:LEU:HD22	1.67	0.74
1:bf:103:ARG:CZ	2:ds:61:GLY:CA	2.64	0.74
1:bt:105:THR:HG23	2:hU:60:ILE:HG22	1.69	0.74
1:bv:103:ARG:CD	2:dI:61:GLY:O	2.35	0.74
2:by:60:ILE:HG13	1:dj:105:THR:HG21	1.69	0.74
1:bT:102:GLU:OE1	1:eR:99:LEU:HA	1.86	0.74
1:cj:105:THR:CG2	2:iu:60:ILE:HG21	2.18	0.74
2:cr:12:LEU:HD11	2:lw:94:ASP:HB2	1.70	0.74
2:cr:197:LYS:HE3	2:lv:62:GLN:HG3	1.67	0.74
2:cB:60:ILE:HG13	1:pm:105:THR:HG21	1.69	0.74
2:cR:83:THR:OG1	2:cR:205:MET:SD	2.42	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dE:60:ILE:HG21	1:pc:105:THR:CG2	2.18	0.74
1:dZ:100:LYS:CD	1:nM:100:LYS:HZ1	2.00	0.74
2:ey:60:ILE:HG23	1:nZ:105:THR:HG21	1.68	0.74
1:ff:60:ARG:NH2	1:ib:99:LEU:CG	2.49	0.74
1:fg:105:THR:HG23	2:nB:60:ILE:HG22	1.69	0.74
1:fJ:105:THR:CG2	2:IT:60:ILE:HG21	2.18	0.74
2:fO:60:ILE:HG22	1:lP:105:THR:HG23	1.69	0.74
2:gc:107:GLY:HA3	2:gc:184:TYR:OH	1.86	0.74
2:gq:107:GLY:HA3	2:gq:184:TYR:OH	1.86	0.74
2:gF:83:THR:OG1	2:gF:205:MET:SD	2.42	0.74
2:gH:197:LYS:HE3	2:pj:62:GLN:HG3	1.67	0.74
1:hA:60:ARG:NH2	1:lO:99:LEU:CG	2.49	0.74
2:hX:53:PHE:O	2:hX:255:ARG:NH2	2.20	0.74
2:il:53:PHE:O	2:il:255:ARG:NH2	2.20	0.74
1:is:105:THR:HG21	2:ot:60:ILE:HG23	1.68	0.74
2:iv:60:ILE:HG13	1:jT:105:THR:HG21	1.69	0.74
2:iy:61:GLY:O	1:on:103:ARG:CD	2.35	0.74
1:jV:60:ARG:NH2	1:mS:99:LEU:CG	2.49	0.74
2:lZ:83:THR:OG1	2:lZ:204:PHE:O	2.03	0.74
2:mK:60:ILE:HG13	1:ow:105:THR:HG21	1.69	0.74
1:ni:105:THR:CG2	2:oD:60:ILE:HG21	2.18	0.74
2:nq:53:PHE:O	2:nq:255:ARG:NH2	2.20	0.74
2:ov:83:THR:OG1	2:ov:204:PHE:O	2.03	0.74
2:oF:107:GLY:HA3	2:oF:184:TYR:OH	1.86	0.74
2:oW:53:PHE:O	2:oW:255:ARG:NH2	2.20	0.74
2:ph:107:GLY:HA3	2:ph:184:TYR:OH	1.86	0.74
2:pk:53:PHE:O	2:pk:255:ARG:NH2	2.20	0.74
3:qe:65:GLY:N	4:ql:219:ILE:HG23	2.02	0.74
1:ac:100:LYS:N	2:mL:197:LYS:NZ	2.36	0.74
1:af:102:GLU:HA	2:oc:198:GLU:HG3	1.67	0.74
2:aw:83:THR:OG1	2:aw:205:MET:SD	2.42	0.74
1:aC:99:LEU:CG	1:kK:60:ARG:NH2	2.49	0.74
1:aC:99:LEU:HA	1:kK:102:GLU:OE1	1.86	0.74
2:aX:197:LYS:NZ	1:ci:100:LYS:N	2.36	0.74
1:bv:105:THR:HG21	2:dI:60:ILE:HG23	1.68	0.74
1:bH:100:LYS:N	2:gq:197:LYS:NZ	2.36	0.74
2:bZ:60:ILE:HG13	1:dx:105:THR:HG21	1.69	0.74
1:cv:60:ARG:NH2	1:pC:99:LEU:CG	2.49	0.74
2:de:107:GLY:HA3	2:de:184:TYR:OH	1.86	0.74
1:do:103:ARG:CD	2:kr:61:GLY:O	2.35	0.74
2:dJ:53:PHE:O	2:dJ:255:ARG:NH2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dL:105:THR:HG21	2:pg:60:ILE:HG13	1.69	0.74
1:en:105:THR:HG21	2:ev:60:ILE:HG13	1.69	0.74
1:es:103:ARG:CD	2:of:61:GLY:O	2.35	0.74
2:ew:197:LYS:NZ	1:nJ:100:LYS:N	2.36	0.74
2:ey:62:GLN:HG3	2:og:197:LYS:HE3	1.67	0.74
2:ez:53:PHE:O	2:ez:255:ARG:NH2	2.20	0.74
1:eD:99:LEU:HA	1:ib:102:GLU:OE1	1.86	0.74
2:eK:107:GLY:HA3	2:eK:184:TYR:OH	1.86	0.74
2:eM:61:GLY:O	1:gO:103:ARG:CD	2.35	0.74
2:fa:61:GLY:O	1:iG:103:ARG:CD	2.35	0.74
2:fk:60:ILE:HG21	1:nw:105:THR:CG2	2.18	0.74
1:fl:105:THR:HG23	2:gc:60:ILE:HG22	1.69	0.74
2:fM:60:ILE:HG21	1:fX:105:THR:CG2	2.18	0.74
2:hs:60:ILE:HG21	1:hC:105:THR:CG2	2.18	0.74
2:hw:12:LEU:HD11	2:jb:94:ASP:HB2	1.70	0.74
2:hK:104:GLN:CD	5:qv:32:PHE:CE2	2.60	0.74
2:ik:61:GLY:O	1:nx:103:ARG:CD	2.35	0.74
2:iw:197:LYS:HZ1	1:pR:99:LEU:HA	1.50	0.74
2:jc:83:THR:OG1	2:jc:204:PHE:O	2.03	0.74
2:jA:197:LYS:NZ	1:mT:100:LYS:N	2.36	0.74
1:jX:105:THR:CG2	2:lr:60:ILE:HG21	2.17	0.74
1:kx:60:ARG:HD3	1:kN:99:LEU:HD22	1.67	0.74
1:lb:99:LEU:HD22	1:mF:60:ARG:HD3	1.67	0.74
2:lt:107:GLY:HA3	2:lt:184:TYR:OH	1.86	0.74
1:lE:102:GLU:HA	2:mY:198:GLU:HG3	1.67	0.74
1:md:105:THR:HG23	2:mx:60:ILE:HG22	1.69	0.74
2:nn:60:ILE:HG22	1:oz:105:THR:HG23	1.69	0.74
2:nN:60:ILE:HG21	1:nY:105:THR:CG2	2.18	0.74
1:om:105:THR:CG2	2:pV:60:ILE:HG21	2.18	0.74
1:on:99:LEU:HD22	1:pR:60:ARG:HD3	1.67	0.74
2:qb:83:THR:OG1	2:qb:204:PHE:O	2.03	0.74
2:ay:53:PHE:O	2:ay:255:ARG:NH2	2.20	0.74
2:ay:132:ASP:OD1	2:ay:133:GLY:N	2.21	0.74
1:aC:99:LEU:CD1	1:kK:60:ARG:CD	2.44	0.74
1:aR:100:LYS:N	2:jm:197:LYS:NZ	2.36	0.74
1:aS:105:THR:CG2	2:iI:60:ILE:HG21	2.18	0.74
1:aT:105:THR:HG21	2:px:60:ILE:HG23	1.68	0.74
1:bc:90:LEU:CD2	2:iJ:5:THR:HG22	2.18	0.74
1:bs:99:LEU:HA	1:eR:102:GLU:OE1	1.86	0.74
1:bt:100:LYS:N	2:ca:197:LYS:NZ	2.36	0.74
2:bx:60:ILE:HG21	1:hP:105:THR:CG2	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bM:60:ILE:HG22	1:hB:105:THR:HG23	1.69	0.74
1:bW:103:ARG:CD	2:hW:61:GLY:O	2.35	0.74
2:bY:60:ILE:HG21	1:iF:105:THR:CG2	2.18	0.74
2:cm:60:ILE:HG21	1:pq:105:THR:CG2	2.18	0.74
2:co:107:GLY:HA3	2:co:184:TYR:OH	1.86	0.74
2:cq:60:ILE:HG23	1:lp:105:THR:HG21	1.68	0.74
1:cw:60:ARG:HD3	1:cM:99:LEU:HD22	1.68	0.74
1:cJ:102:GLU:OE1	1:iD:99:LEU:HA	1.86	0.74
2:cQ:197:LYS:NZ	1:pp:100:LYS:N	2.36	0.74
2:cT:94:ASP:HB2	2:pM:12:LEU:HD11	1.70	0.74
1:dL:90:LEU:CD2	2:eX:5:THR:HG22	2.18	0.74
1:ed:105:THR:CG2	2:nz:60:ILE:HG21	2.18	0.74
2:el:53:PHE:O	2:el:255:ARG:NH2	2.20	0.74
2:el:94:ASP:HB2	2:mm:12:LEU:HD11	1.70	0.74
2:em:83:THR:OG1	2:em:204:PHE:O	2.03	0.74
2:eA:83:THR:OG1	2:eA:204:PHE:O	2.03	0.74
2:fc:83:THR:OG1	2:fc:204:PHE:O	2.03	0.74
2:fO:107:GLY:HA3	2:fO:184:TYR:OH	1.86	0.74
1:gl:105:THR:CG2	2:hS:60:ILE:HG21	2.18	0.74
2:gt:132:ASP:OD1	2:gt:133:GLY:N	2.21	0.74
2:gG:61:GLY:O	1:pd:103:ARG:CD	2.35	0.74
2:gV:53:PHE:O	2:gV:255:ARG:NH2	2.20	0.74
1:hb:105:THR:CG2	2:lF:60:ILE:HG21	2.18	0.74
1:hp:105:THR:CG2	2:ko:60:ILE:HG21	2.18	0.74
1:hq:103:ARG:CD	2:ja:61:GLY:O	2.35	0.74
2:ik:60:ILE:HG23	1:nx:105:THR:HG21	1.68	0.74
2:jp:132:ASP:OD1	2:jp:133:GLY:N	2.21	0.74
1:jv:105:THR:CG2	2:ld:60:ILE:HG21	2.18	0.74
2:jR:53:PHE:O	2:jR:255:ARG:NH2	2.20	0.74
1:jY:99:LEU:HD22	1:ln:60:ARG:HD3	1.67	0.74
1:kh:90:LEU:CD2	2:ls:5:THR:HG22	2.18	0.74
2:ks:53:PHE:O	2:ks:255:ARG:NH2	2.20	0.74
1:kw:99:LEU:CG	1:lO:60:ARG:NH2	2.49	0.74
2:kG:53:PHE:O	2:kG:255:ARG:NH2	2.20	0.74
2:kU:53:PHE:O	2:kU:255:ARG:NH2	2.20	0.74
1:kZ:100:LYS:N	2:IH:197:LYS:NZ	2.36	0.74
2:lg:83:THR:OG1	2:lg:205:MET:SD	2.42	0.74
2:lG:60:ILE:HG13	1:ne:105:THR:HG21	1.69	0.74
2:nE:132:ASP:OD1	2:nE:133:GLY:N	2.21	0.74
2:or:63:ARG:NE	2:ou:205:MET:SD	2.57	0.74
2:ou:132:ASP:OD1	2:ou:133:GLY:N	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qe:61:ASP:O	4:qm:33:SER:CB	2.35	0.74
3:qi:64:GLY:C	4:qn:219:ILE:CG2	2.60	0.74
3:qi:68:ALA:HA	4:qo:8:TYR:OH	1.86	0.74
1:as:105:THR:HG21	2:gs:60:ILE:HG23	1.68	0.74
1:aE:105:THR:CG2	2:ka:60:ILE:HG21	2.18	0.74
1:aR:60:ARG:HD3	1:bh:99:LEU:HD22	1.68	0.74
2:aW:60:ILE:HG13	1:iP:105:THR:HG21	1.69	0.74
2:ba:53:PHE:O	2:ba:255:ARG:NH2	2.20	0.74
2:bo:12:LEU:HD11	2:jp:94:ASP:HB2	1.70	0.74
2:bP:132:ASP:OD1	2:bP:133:GLY:N	2.21	0.74
1:cf:100:LYS:CG	1:iH:100:LYS:NZ	2.40	0.74
1:cZ:105:THR:CG2	2:eI:60:ILE:HG21	2.18	0.74
1:da:103:ARG:CD	2:fo:61:GLY:O	2.35	0.74
1:eb:102:GLU:OE1	1:nW:99:LEU:HA	1.86	0.74
1:ee:103:ARG:CD	2:ml:61:GLY:O	2.35	0.74
2:eg:60:ILE:HG21	1:er:105:THR:CG2	2.18	0.74
1:eG:105:THR:HG21	2:gU:60:ILE:HG23	1.68	0.74
2:eK:197:LYS:HZ1	1:ic:99:LEU:C	1.95	0.74
2:fb:53:PHE:O	2:fb:255:ARG:NH2	2.20	0.74
2:fl:5:THR:HG22	1:nG:90:LEU:CD2	2.18	0.74
1:fW:100:LYS:N	2:nB:197:LYS:NZ	2.36	0.74
1:gk:100:LYS:N	2:gS:197:LYS:NZ	2.36	0.74
2:hg:197:LYS:NZ	1:mr:100:LYS:N	2.36	0.74
2:hi:60:ILE:HG23	1:oB:105:THR:HG21	1.68	0.74
2:ht:60:ILE:HG22	1:kk:105:THR:HG23	1.69	0.74
2:ht:107:GLY:HA3	2:ht:184:TYR:OH	1.86	0.74
1:hD:105:THR:HG21	2:kT:60:ILE:HG23	1.68	0.74
2:il:12:LEU:HD11	2:nE:94:ASP:HB2	1.70	0.74
2:iX:5:THR:HG22	1:jr:90:LEU:CD2	2.18	0.74
2:jl:5:THR:HG22	1:ly:90:LEU:CD2	2.18	0.74
1:jF:105:THR:HG21	2:pW:60:ILE:HG13	1.69	0.74
1:jH:60:ARG:NH2	1:ok:99:LEU:CG	2.49	0.74
2:kB:60:ILE:HG21	1:kM:105:THR:CG2	2.18	0.74
1:lc:102:GLU:HA	2:mK:198:GLU:HG3	1.67	0.74
2:lh:61:GLY:O	1:nj:103:ARG:CD	2.35	0.74
1:mH:103:ARG:CD	2:oV:61:GLY:O	2.35	0.74
2:nO:5:THR:HG22	1:oi:90:LEU:CD2	2.18	0.74
2:nT:83:THR:OG1	2:nT:204:PHE:O	2.03	0.74
2:or:107:GLY:HA3	2:or:184:TYR:OH	1.86	0.74
3:qd:68:ALA:H	4:qn:8:TYR:HE2	0.79	0.74
4:ql:178:PHE:CZ	4:qm:39:LEU:HD23	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ai:197:LYS:HZ1	1:nh:99:LEU:CA	2.00	0.74
1:ap:60:ARG:CD	1:dl:99:LEU:CD1	2.44	0.74
1:as:103:ARG:CD	2:gs:61:GLY:O	2.35	0.74
2:aH:60:ILE:HG21	1:iT:105:THR:CG2	2.18	0.74
2:aJ:107:GLY:HA3	2:aJ:184:TYR:OH	1.86	0.74
1:bs:60:ARG:CD	1:bT:99:LEU:CD1	2.44	0.74
1:bs:99:LEU:CG	1:eR:60:ARG:NH2	2.49	0.74
1:bw:99:LEU:HG	1:dj:102:GLU:OE2	1.74	0.74
2:bM:63:ARG:NE	2:bP:205:MET:SD	2.57	0.74
2:bQ:103:MET:HE1	5:qp:174:ARG:CZ	2.18	0.74
1:bT:60:ARG:NH2	1:eR:99:LEU:CG	2.49	0.74
1:bV:105:THR:CG2	2:dq:60:ILE:HG21	2.18	0.74
2:bZ:5:THR:HG22	1:iP:90:LEU:CD2	2.18	0.74
2:cn:5:THR:HG22	1:pA:90:LEU:CD2	2.18	0.74
1:ct:90:LEU:CD2	2:iv:5:THR:HG22	2.18	0.74
2:cF:12:LEU:HD11	2:nS:94:ASP:HB2	1.70	0.74
2:cF:132:ASP:OD1	2:cF:133:GLY:N	2.21	0.74
1:dz:102:GLU:OE1	1:gx:99:LEU:HA	1.86	0.74
2:fp:53:PHE:O	2:fp:255:ARG:NH2	2.20	0.74
2:fB:83:THR:OG1	2:fB:205:MET:SD	2.42	0.74
2:fQ:61:GLY:O	1:kz:103:ARG:CD	2.35	0.74
1:gj:102:GLU:OE1	1:gL:99:LEU:HA	1.86	0.74
2:hj:94:ASP:HB2	2:oI:12:LEU:HD11	1.70	0.74
1:hl:90:LEU:CD2	2:lG:5:THR:HG22	2.18	0.74
2:hw:94:ASP:HB2	2:jb:12:LEU:HD11	1.70	0.74
2:hX:132:ASP:OD1	2:hX:133:GLY:N	2.21	0.74
2:iw:60:ILE:HG22	1:jI:105:THR:HG23	1.69	0.74
1:iE:100:LYS:N	2:pv:197:LYS:NZ	2.36	0.74
1:iR:99:LEU:CD1	1:kj:60:ARG:CD	2.44	0.74
1:jW:99:LEU:C	2:mZ:197:LYS:HZ2	1.95	0.74
2:ke:61:GLY:O	1:pT:103:ARG:CD	2.35	0.74
2:kG:132:ASP:OD1	2:kG:133:GLY:N	2.21	0.74
2:lK:53:PHE:O	2:lK:255:ARG:NH2	2.20	0.74
2:lK:132:ASP:OD1	2:lK:133:GLY:N	2.21	0.74
2:mm:53:PHE:O	2:mm:255:ARG:NH2	2.20	0.74
2:mw:5:THR:HG22	1:oK:90:LEU:CD2	2.18	0.74
2:mL:60:ILE:HG22	1:ol:105:THR:HG23	1.69	0.74
2:nS:132:ASP:OD1	2:nS:133:GLY:N	2.21	0.74
1:nU:105:THR:HG21	2:oc:60:ILE:HG13	1.69	0.74
2:og:132:ASP:OD1	2:og:133:GLY:N	2.21	0.74
2:oI:132:ASP:OD1	2:oI:133:GLY:N	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ae:99:LEU:HD22	1:nX:60:ARG:HD3	1.67	0.74
1:bU:100:LYS:N	2:eY:197:LYS:NZ	2.36	0.74
1:cy:105:THR:HG21	2:nR:60:ILE:HG23	1.68	0.74
1:cz:100:LYS:HZ3	1:pm:100:LYS:HG2	1.50	0.74
2:cP:5:THR:HG22	1:fd:90:LEU:CD2	2.18	0.74
2:cQ:197:LYS:HZ2	1:pp:99:LEU:C	1.95	0.74
2:cT:132:ASP:OD1	2:cT:133:GLY:N	2.21	0.74
1:dB:105:THR:CG2	2:eW:60:ILE:HG21	2.18	0.74
2:dX:132:ASP:OD1	2:dX:133:GLY:N	2.21	0.74
1:ep:99:LEU:CG	1:nI:60:ARG:NH2	2.49	0.74
2:ez:132:ASP:OD1	2:ez:133:GLY:N	2.21	0.74
1:fi:99:LEU:HD22	1:gy:60:ARG:HD3	1.68	0.74
2:fp:132:ASP:OD1	2:fp:133:GLY:N	2.21	0.74
1:fu:60:ARG:HD3	1:mf:99:LEU:HD22	1.67	0.74
2:fr:132:ASP:OD1	2:fr:133:GLY:N	2.21	0.74
1:fV:60:ARG:NH2	1:nu:99:LEU:CG	2.49	0.74
2:ga:60:ILE:HG21	1:id:105:THR:CG2	2.18	0.74
1:hc:103:ARG:CD	2:oH:61:GLY:O	2.35	0.74
2:he:60:ILE:HG21	1:ky:105:THR:CG2	2.18	0.74
2:hi:61:GLY:O	1:oB:103:ARG:CD	2.35	0.74
1:ho:100:LYS:N	2:kR:197:LYS:NZ	2.36	0.74
1:hq:105:THR:HG21	2:ja:60:ILE:HG23	1.68	0.74
2:hG:197:LYS:NZ	1:kx:100:LYS:N	2.36	0.74
2:hI:61:GLY:O	1:kN:103:ARG:CD	2.35	0.74
2:hJ:132:ASP:OD1	2:hJ:133:GLY:N	2.21	0.74
2:iN:53:PHE:O	2:iN:255:ARG:NH2	2.20	0.74
1:jt:102:GLU:OE1	1:jV:99:LEU:HA	1.86	0.74
1:ln:100:LYS:N	2:pX:197:LYS:NZ	2.36	0.74
1:mr:103:ARG:CZ	2:oF:61:GLY:CA	2.64	0.74
2:mv:60:ILE:HG21	1:oA:105:THR:CG2	2.18	0.74
1:mF:100:LYS:N	2:nn:197:LYS:NZ	2.36	0.74
1:nJ:105:THR:HG23	2:od:60:ILE:HG22	1.69	0.74
1:pb:63:VAL:HG23	1:pb:99:LEU:HD12	1.70	0.74
3:qd:64:GLY:C	4:qm:219:ILE:CG2	2.61	0.74
3:qf:67:ARG:CB	4:ql:194:LEU:HD13	2.17	0.74
4:qk:177:MET:HE1	4:ql:206:TYR:CE1	2.22	0.74
4:qk:222:GLY:C	4:ql:8:TYR:HH	1.94	0.74
5:qJ:392:LEU:HD13	5:qL:400:TYR:CZ	2.12	0.74
2:ah:5:THR:HG22	1:oY:90:LEU:CD2	2.18	0.74
1:ap:102:GLU:OE1	1:dl:99:LEU:HA	1.86	0.74
1:ar:105:THR:CG2	2:bL:60:ILE:HG21	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:au:60:ILE:HG21	1:kl:105:THR:CG2	2.18	0.74
2:aL:61:GLY:O	1:mV:103:ARG:CD	2.35	0.74
2:aW:5:THR:HG22	1:bq:90:LEU:CD2	2.18	0.74
2:by:5:THR:HG22	1:hZ:90:LEU:CD2	2.18	0.74
1:bE:90:LEU:CD2	2:dd:5:THR:HG22	2.18	0.74
1:bJ:103:ARG:CD	2:IX:61:GLY:O	2.35	0.74
1:bJ:105:THR:HG21	2:IX:60:ILE:HG23	1.68	0.74
1:cf:90:LEU:CD2	2:dr:5:THR:HG22	2.18	0.74
1:cv:99:LEU:CD1	1:dN:60:ARG:CD	2.44	0.74
2:cA:60:ILE:HG21	1:cL:105:THR:CG2	2.17	0.74
1:cK:63:VAL:HG23	1:cK:99:LEU:HD12	1.70	0.74
1:cX:99:LEU:HA	1:gx:102:GLU:OE1	1.86	0.74
2:de:197:LYS:NZ	1:gy:100:LYS:N	2.36	0.74
2:dU:60:ILE:HG22	1:oN:105:THR:HG23	1.69	0.74
2:dV:83:THR:OG1	2:dV:205:MET:SD	2.42	0.74
2:el:132:ASP:OD1	2:el:133:GLY:N	2.21	0.74
1:fj:102:GLU:HA	2:gD:198:GLU:HG3	1.67	0.74
1:fF:90:LEU:CD2	2:nM:5:THR:HG22	2.18	0.74
1:fT:105:THR:HG21	2:gb:60:ILE:HG13	1.69	0.74
2:gI:83:THR:OG1	2:gI:204:PHE:O	2.03	0.74
2:hs:181:PRO:HB3	5:qB:58:GLN:OE1	1.87	0.74
2:hJ:53:PHE:O	2:hJ:255:ARG:NH2	2.20	0.74
2:il:94:ASP:HB2	2:nE:12:LEU:HD11	1.69	0.74
1:jw:103:ARG:CD	2:IJ:61:GLY:O	2.35	0.74
1:jH:102:GLU:OE1	1:ok:99:LEU:HA	1.86	0.74
2:jO:61:GLY:CA	1:pD:103:ARG:CZ	2.64	0.74
2:jP:83:THR:OG1	2:jP:205:MET:SD	2.42	0.74
2:kf:53:PHE:O	2:kf:255:ARG:NH2	2.20	0.74
2:ko:188:MET:HE2	5:qH:176:ASN:HD21	0.92	0.74
1:kI:105:THR:HG21	2:kQ:60:ILE:HG13	1.68	0.74
1:la:105:THR:CG2	2:mJ:60:ILE:HG21	2.18	0.74
1:mH:105:THR:HG21	2:oV:60:ILE:HG23	1.68	0.74
2:oG:83:THR:OG1	2:oG:205:MET:SD	2.42	0.74
1:oY:59:VAL:HG12	1:oY:61:ALA:H	1.53	0.74
2:pi:83:THR:OG1	2:pi:205:MET:SD	2.42	0.74
2:pw:83:THR:OG1	2:pw:205:MET:SD	2.42	0.74
1:pR:63:VAL:HG23	1:pR:99:LEU:HD12	1.70	0.74
5:qJ:53:GLU:OE2	5:qL:35:HIS:HE1	1.66	0.74
1:ae:102:GLU:CD	1:fs:99:LEU:CD1	2.60	0.73
1:ae:105:THR:HG21	2:fC:60:ILE:HG23	1.68	0.73
1:aG:101:VAL:CG1	2:kb:198:GLU:CD	2.58	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aM:132:ASP:OD1	2:aM:133:GLY:N	2.21	0.73
2:bz:197:LYS:NZ	1:eS:100:LYS:N	2.36	0.73
2:bC:53:PHE:O	2:bC:255:ARG:NH2	2.20	0.73
1:ck:105:THR:HG21	2:lv:60:ILE:HG23	1.68	0.73
2:cB:5:THR:HG22	1:cV:90:LEU:CD2	2.18	0.73
2:cG:83:THR:OG1	2:cG:204:PHE:O	2.03	0.73
1:dO:63:VAL:HG23	1:dO:99:LEU:HD12	1.70	0.73
1:ec:100:LYS:N	2:od:197:LYS:NZ	2.36	0.73
1:ec:105:THR:HG23	2:ew:60:ILE:HG22	1.69	0.73
2:eh:5:THR:HG22	1:eB:90:LEU:CD2	2.18	0.73
2:eN:94:ASP:HB2	2:gV:12:LEU:HD11	1.70	0.73
2:eZ:83:THR:OG1	2:eZ:205:MET:SD	2.42	0.73
2:fb:132:ASP:OD1	2:fb:133:GLY:N	2.21	0.73
2:fz:5:THR:HG22	1:mo:90:LEU:CD2	2.18	0.73
1:fI:99:LEU:C	2:mx:197:LYS:HZ2	1.96	0.73
1:fK:99:LEU:HD22	1:lP:60:ARG:HD3	1.67	0.73
1:fY:103:ARG:CD	2:mz:61:GLY:O	2.35	0.73
2:gb:5:THR:HG22	1:in:90:LEU:CD2	2.18	0.73
2:gf:53:PHE:O	2:gf:255:ARG:NH2	2.20	0.73
1:gh:100:LYS:HG2	1:if:100:LYS:HZ1	1.53	0.73
1:hq:100:LYS:HE3	1:iQ:100:LYS:CB	2.19	0.73
2:hv:61:GLY:O	1:iU:103:ARG:CD	2.35	0.73
1:ie:105:THR:HG21	2:nD:60:ILE:HG23	1.68	0.73
2:iz:94:ASP:HB2	2:ou:12:LEU:HD11	1.70	0.73
2:iz:132:ASP:OD1	2:iz:133:GLY:N	2.21	0.73
2:jb:132:ASP:OD1	2:jb:133:GLY:N	2.21	0.73
1:jg:63:VAL:HG23	1:jg:99:LEU:HD12	1.70	0.73
2:jz:5:THR:HG22	1:qc:90:LEU:CD2	2.18	0.73
2:jR:132:ASP:OD1	2:jR:133:GLY:N	2.21	0.73
2:kf:12:LEU:HD11	2:qa:94:ASP:HB2	1.70	0.73
2:ko:182:LEU:CD2	5:qF:165:PRO:HB3	2.18	0.73
2:kU:132:ASP:OD1	2:kU:133:GLY:N	2.21	0.73
2:kU:174:ASP:OD1	2:kU:214:ARG:NH2	2.22	0.73
1:lb:103:ARG:CD	2:np:61:GLY:O	2.35	0.73
1:lM:90:LEU:CD2	2:mY:5:THR:HG22	2.18	0.73
2:lY:132:ASP:OD1	2:lY:133:GLY:N	2.21	0.73
2:mm:132:ASP:OD1	2:mm:133:GLY:N	2.21	0.73
2:mN:60:ILE:HG23	1:oP:105:THR:HG21	1.68	0.73
3:qe:65:GLY:C	4:qm:10:GLN:NE2	2.45	0.73
3:qh:65:GLY:CA	4:qj:10:GLN:NE2	2.49	0.73
4:qj:177:MET:HE1	4:qk:206:TYR:CE1	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:qs:112:LEU:CG	6:qu:58:LEU:HD12	2.09	0.73
5:qB:252:LEU:HD22	6:qE:126:GLN:HG3	1.69	0.73
1:aA:59:VAL:HG12	1:aA:61:ALA:H	1.53	0.73
1:aD:63:VAL:HG23	1:aD:99:LEU:HD12	1.70	0.73
2:aK:248:ASN:OD1	2:aL:268:THR:OG1	2.07	0.73
2:aL:62:GLN:HG3	2:nc:197:LYS:HE3	1.67	0.73
2:ba:174:ASP:OD1	2:ba:214:ARG:NH2	2.22	0.73
1:bc:100:LYS:CG	1:bi:100:LYS:NZ	2.40	0.73
1:be:99:LEU:CG	1:iR:60:ARG:NH2	2.49	0.73
2:bk:198:GLU:HG3	1:dp:102:GLU:HA	1.67	0.73
1:bt:63:VAL:HG23	1:bt:99:LEU:HD12	1.70	0.73
2:bB:61:GLY:O	1:dC:103:ARG:CD	2.35	0.73
2:bD:83:THR:OG1	2:bD:204:PHE:O	2.03	0.73
1:bJ:100:LYS:HE3	1:lN:100:LYS:CB	2.19	0.73
2:bN:248:ASN:OD1	2:bO:268:THR:OG1	2.07	0.73
2:cc:60:ILE:HG23	1:hQ:105:THR:HG21	1.68	0.73
1:ch:99:LEU:HA	1:jf:102:GLU:OE1	1.86	0.73
2:cr:53:PHE:O	2:cr:255:ARG:NH2	2.20	0.73
1:cw:63:VAL:HG23	1:cw:99:LEU:HD12	1.70	0.73
2:cF:94:ASP:HB2	2:nS:12:LEU:HD11	1.70	0.73
1:cH:59:VAL:HG12	1:cH:61:ALA:H	1.54	0.73
1:cY:63:VAL:HG23	1:cY:99:LEU:HD12	1.70	0.73
1:dm:100:LYS:N	2:hU:197:LYS:NZ	2.36	0.73
1:dP:105:THR:CG2	2:oR:60:ILE:HG21	2.18	0.73
1:dQ:103:ARG:CD	2:jQ:61:GLY:O	2.35	0.73
2:dT:5:THR:HG22	1:nU:90:LEU:CD2	2.18	0.73
1:ee:105:THR:HG21	2:ml:60:ILE:HG23	1.68	0.73
2:eh:198:GLU:HG3	1:et:102:GLU:HA	1.67	0.73
1:eP:90:LEU:CD2	2:gp:5:THR:HG22	2.18	0.73
1:eU:103:ARG:CD	2:iM:61:GLY:O	2.35	0.73
1:fh:105:THR:CG2	2:gC:60:ILE:HG21	2.18	0.73
1:fK:100:LYS:HE3	1:kv:100:LYS:CB	2.19	0.73
2:gf:12:LEU:HD11	2:mA:94:ASP:HB2	1.70	0.73
1:gv:59:VAL:HG12	1:gv:61:ALA:H	1.53	0.73
1:gA:102:GLU:CD	1:oZ:99:LEU:CD1	2.60	0.73
2:hF:5:THR:HG22	1:kI:90:LEU:CD2	2.18	0.73
2:hj:53:PHE:O	2:hj:255:ARG:NH2	2.20	0.73
2:hw:174:ASP:OD1	2:hw:214:ARG:NH2	2.22	0.73
1:hA:99:LEU:CG	1:kw:60:ARG:NH2	2.49	0.73
1:ie:103:ARG:CD	2:nD:61:GLY:O	2.35	0.73
2:ii:268:THR:OG1	2:ik:248:ASN:OD1	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ip:102:GLU:OE1	1:lm:99:LEU:HA	1.86	0.73
1:iB:59:VAL:HG12	1:iB:61:ALA:H	1.53	0.73
2:iN:132:ASP:OD1	2:iN:133:GLY:N	2.21	0.73
2:jb:53:PHE:O	2:jb:255:ARG:NH2	2.20	0.73
2:ks:174:ASP:OD1	2:ks:214:ARG:NH2	2.22	0.73
1:ku:59:VAL:HG12	1:ku:61:ALA:H	1.53	0.73
2:kE:83:THR:OG1	2:kE:205:MET:SD	2.42	0.73
2:li:132:ASP:OD1	2:li:133:GLY:N	2.21	0.73
2:II:248:ASN:OD1	2:IJ:268:THR:OG1	2.07	0.73
1:mF:99:LEU:CA	2:nn:197:LYS:HZ1	2.00	0.73
2:mO:132:ASP:OD1	2:mO:133:GLY:N	2.21	0.73
1:mT:63:VAL:HG23	1:mT:99:LEU:HD12	1.70	0.73
1:nj:99:LEU:HD22	1:oz:60:ARG:HD3	1.67	0.73
2:nB:63:ARG:NE	2:nE:205:MET:SD	2.57	0.73
1:nG:59:VAL:HG12	1:nG:61:ALA:H	1.54	0.73
2:oI:171:TYR:HH	2:oI:175:THR:HG1	1.30	0.73
3:qd:64:GLY:C	4:qm:219:ILE:HG22	2.12	0.73
4:qn:177:MET:HE1	4:qo:206:TYR:CE1	2.22	0.73
5:qz:96:ARG:CD	5:qB:114:LEU:HD23	2.11	0.73
2:ai:268:THR:OG1	2:ak:248:ASN:OD1	2.07	0.73
2:al:132:ASP:OD1	2:al:133:GLY:N	2.21	0.73
1:an:105:THR:HG21	2:oS:60:ILE:HG13	1.69	0.73
1:aq:63:VAL:HG23	1:aq:99:LEU:HD12	1.70	0.73
2:aM:174:ASP:OD1	2:aM:214:ARG:NH2	2.22	0.73
1:aO:105:THR:HG21	2:iX:60:ILE:HG13	1.68	0.73
1:bf:63:VAL:HG23	1:bf:99:LEU:HD12	1.70	0.73
2:bl:197:LYS:NZ	1:iS:100:LYS:N	2.36	0.73
2:bo:174:ASP:OD1	2:bo:214:ARG:NH2	2.22	0.73
1:bI:105:THR:CG2	2:hF:60:ILE:HG21	2.18	0.73
2:bM:268:THR:OG1	2:bO:248:ASN:OD1	2.07	0.73
1:bW:100:LYS:HE3	1:hM:100:LYS:CB	2.19	0.73
2:cc:61:GLY:O	1:hQ:103:ARG:CD	2.35	0.73
2:cc:62:GLN:HG3	2:hX:197:LYS:HE3	1.67	0.73
2:cd:94:ASP:HB2	2:hX:12:LEU:HD11	1.70	0.73
1:cy:102:GLU:CD	1:nH:99:LEU:CD1	2.60	0.73
1:cH:90:LEU:CD2	2:pg:5:THR:HG22	2.18	0.73
1:cJ:60:ARG:NH2	1:iD:99:LEU:CG	2.49	0.73
1:cK:100:LYS:N	2:iK:197:LYS:NZ	2.36	0.73
2:cT:174:ASP:OD1	2:cT:214:ARG:NH2	2.22	0.73
1:da:100:LYS:HE3	1:fe:100:LYS:HG2	1.71	0.73
2:dh:132:ASP:OD1	2:dh:133:GLY:N	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dv:132:ASP:OD1	2:dv:133:GLY:N	2.21	0.73
2:dI:294:LEU:HD23	2:dI:295:VAL:HG23	1.71	0.73
1:dQ:100:LYS:HE3	1:jG:100:LYS:HG2	1.71	0.73
1:dZ:90:LEU:CD2	2:oS:5:THR:HG22	2.18	0.73
2:ej:248:ASN:OD1	2:ek:268:THR:OG1	2.07	0.73
1:eo:100:LYS:HG2	1:nZ:100:LYS:HE3	1.71	0.73
2:fb:12:LEU:HD11	2:iN:94:ASP:HB2	1.70	0.73
2:fn:248:ASN:OD1	2:fo:268:THR:OG1	2.07	0.73
2:fp:174:ASP:OD1	2:fp:214:ARG:NH2	2.22	0.73
2:fr:12:LEU:HD11	2:kG:94:ASP:HB2	1.70	0.73
2:gc:268:THR:OG1	2:ge:248:ASN:OD1	2.07	0.73
1:gO:99:LEU:HD22	1:ic:60:ARG:HD3	1.67	0.73
1:gP:101:VAL:CG1	2:ih:198:GLU:CD	2.58	0.73
1:gY:100:LYS:CB	1:oB:100:LYS:HE3	2.19	0.73
1:hq:100:LYS:HE3	1:iQ:100:LYS:HG2	1.71	0.73
2:hX:174:ASP:OD1	2:hX:214:ARG:NH2	2.21	0.73
2:iz:174:ASP:OD1	2:iz:214:ARG:NH2	2.22	0.73
1:iB:90:LEU:CD2	2:jN:5:THR:HG22	2.18	0.73
2:iK:268:THR:OG1	2:iM:248:ASN:OD1	2.07	0.73
1:jt:60:ARG:NH2	1:jV:99:LEU:CG	2.49	0.73
2:jC:61:GLY:O	1:ID:103:ARG:CD	2.35	0.73
2:ke:294:LEU:HD23	2:ke:295:VAL:HG23	1.71	0.73
1:kx:63:VAL:HG23	1:kx:99:LEU:HD12	1.70	0.73
2:kC:198:GLU:CD	1:kO:101:VAL:CG1	2.58	0.73
1:lk:90:LEU:CD2	2:mK:5:THR:HG22	2.18	0.73
2:lt:63:ARG:NE	2:lw:205:MET:SD	2.57	0.73
2:lK:174:ASP:OD1	2:lK:214:ARG:NH2	2.22	0.73
2:lY:174:ASP:OD1	2:lY:214:ARG:NH2	2.22	0.73
1:mE:60:ARG:CD	1:ng:99:LEU:CD1	2.44	0.73
2:nn:268:THR:OG1	2:np:248:ASN:OD1	2.07	0.73
1:ns:90:LEU:CD2	2:oE:5:THR:HG22	2.18	0.73
2:og:174:ASP:OD1	2:og:214:ARG:NH2	2.22	0.73
2:pu:5:THR:HG22	1:pO:90:LEU:CD2	2.18	0.73
2:py:174:ASP:OD1	2:py:214:ARG:NH2	2.22	0.73
2:pM:132:ASP:OD1	2:pM:133:GLY:N	2.21	0.73
3:qf:68:ALA:HB2	4:ql:8:TYR:CE2	2.23	0.73
3:qf:141:LEU:HD23	3:qf:143:PHE:CE2	2.24	0.73
3:qi:25:LEU:HD21	6:qq:82:VAL:HB	1.71	0.73
3:qi:64:GLY:C	4:qn:220:SER:O	2.31	0.73
3:qi:66:GLN:C	4:qo:194:LEU:CD1	2.57	0.73
1:aa:100:LYS:CB	1:fw:100:LYS:HE3	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ae:100:LYS:HE3	1:fs:100:LYS:CB	2.19	0.73
2:ak:61:GLY:O	1:fw:103:ARG:CD	2.35	0.73
2:al:53:PHE:O	2:al:255:ARG:NH2	2.20	0.73
2:al:174:ASP:OD1	2:al:214:ARG:NH2	2.22	0.73
2:bn:61:GLY:O	1:ji:103:ARG:CD	2.35	0.73
1:bt:60:ARG:HD3	1:hQ:99:LEU:HD22	1.67	0.73
2:bB:62:GLN:HG3	2:dJ:197:LYS:HE3	1.67	0.73
2:bB:294:LEU:HD23	2:bB:295:VAL:HG23	1.71	0.73
1:bG:99:LEU:CD1	1:gL:60:ARG:CD	2.44	0.73
1:bJ:99:LEU:HD22	1:hB:60:ARG:HD3	1.67	0.73
2:bM:197:LYS:NZ	1:gM:100:LYS:N	2.36	0.73
1:ck:100:LYS:HE3	1:ll:100:LYS:CB	2.19	0.73
2:cp:248:ASN:OD1	2:cq:268:THR:OG1	2.07	0.73
1:cu:100:LYS:CB	1:nL:100:LYS:HE3	2.19	0.73
1:cx:105:THR:CG2	2:pf:60:ILE:HG21	2.18	0.73
2:cE:62:GLN:HG3	2:nS:197:LYS:HE3	1.67	0.73
1:da:102:GLU:CD	1:fe:99:LEU:CD1	2.60	0.73
2:dd:60:ILE:HG13	1:eP:105:THR:HG21	1.69	0.73
2:dg:294:LEU:HD23	2:dg:295:VAL:HG23	1.71	0.73
2:dG:60:ILE:HG22	1:eS:105:THR:HG23	1.69	0.73
2:dJ:132:ASP:OD1	2:dJ:133:GLY:N	2.21	0.73
1:dR:100:LYS:HZ1	1:oY:100:LYS:CD	2.01	0.73
2:dU:268:THR:OG1	2:dW:248:ASN:OD1	2.07	0.73
1:ea:100:LYS:HG2	1:mf:100:LYS:HE3	1.71	0.73
1:ec:63:VAL:HG23	1:ec:99:LEU:HD12	1.70	0.73
2:el:174:ASP:OD1	2:el:214:ARG:NH2	2.22	0.73
1:en:90:LEU:CD2	2:nA:5:THR:HG22	2.18	0.73
1:eo:100:LYS:CB	1:nZ:100:LYS:HE3	2.19	0.73
1:eq:100:LYS:N	2:ph:197:LYS:NZ	2.36	0.73
2:eY:268:THR:OG1	2:fa:248:ASN:OD1	2.07	0.73
1:fr:90:LEU:CD2	2:gD:5:THR:HG22	2.18	0.73
1:ft:99:LEU:CG	1:nW:60:ARG:NH2	2.49	0.73
2:gc:197:LYS:NZ	1:md:100:LYS:N	2.36	0.73
2:ge:61:GLY:O	1:mt:103:ARG:CD	2.35	0.73
2:gR:5:THR:HG22	1:ma:90:LEU:CD2	2.18	0.73
1:gX:105:THR:HG21	2:lU:60:ILE:HG13	1.69	0.73
2:hk:83:THR:OG1	2:hk:204:PHE:O	2.03	0.73
1:hm:100:LYS:CB	1:iU:100:LYS:HE3	2.19	0.73
2:hw:132:ASP:OD1	2:hw:133:GLY:N	2.21	0.73
1:hE:70:GLY:CA	6:qC:57:GLN:HB2	2.14	0.73
2:iw:268:THR:OG1	2:iy:248:ASN:OD1	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jF:90:LEU:CD2	2:le:5:THR:HG22	2.18	0.73
2:ko:188:MET:CE	5:qH:176:ASN:HD21	1.68	0.73
2:kt:92:GLU:HG2	5:qD:44:LYS:HA	0.86	0.73
2:kD:268:THR:OG1	2:kF:248:ASN:OD1	2.07	0.73
1:kZ:63:VAL:HG23	1:kZ:99:LEU:HD12	1.70	0.73
2:lt:268:THR:OG1	2:lv:248:ASN:OD1	2.07	0.73
2:lw:132:ASP:OD1	2:lw:133:GLY:N	2.21	0.73
2:lH:268:THR:OG1	2:lJ:248:ASN:OD1	2.07	0.73
2:mm:174:ASP:OD1	2:mm:214:ARG:NH2	2.22	0.73
2:mx:268:THR:OG1	2:mz:248:ASN:OD1	2.07	0.73
1:mH:100:LYS:HE3	1:oL:100:LYS:CB	2.19	0.73
2:mO:174:ASP:OD1	2:mO:214:ARG:NH2	2.22	0.73
2:nc:174:ASP:OD1	2:nc:214:ARG:NH2	2.22	0.73
2:nq:132:ASP:OD1	2:nq:133:GLY:N	2.21	0.73
2:nS:174:ASP:OD1	2:nS:214:ARG:NH2	2.22	0.73
2:oF:268:THR:OG1	2:oH:248:ASN:OD1	2.07	0.73
1:aA:100:LYS:CD	1:kn:100:LYS:HZ1	2.01	0.73
2:aJ:60:ILE:HG22	1:jW:105:THR:HG23	1.69	0.73
2:aM:94:ASP:HB2	2:nc:12:LEU:HD11	1.70	0.73
1:bd:100:LYS:CB	1:ji:100:LYS:HE3	2.19	0.73
1:bu:105:THR:CG2	2:dc:60:ILE:HG21	2.18	0.73
1:bv:100:LYS:HE3	1:dy:100:LYS:CB	2.19	0.73
1:bF:100:LYS:CB	1:lR:100:LYS:HE3	2.19	0.73
1:bR:59:VAL:HG12	1:bR:61:ALA:H	1.53	0.73
1:bS:100:LYS:HG2	1:hQ:100:LYS:HE3	1.71	0.73
2:cb:248:ASN:OD1	2:cc:268:THR:OG1	2.07	0.73
1:cg:100:LYS:CB	1:lp:100:LYS:HE3	2.19	0.73
1:cw:105:THR:HG23	2:cQ:60:ILE:HG22	1.69	0.73
1:da:105:THR:HG21	2:fo:60:ILE:HG23	1.68	0.73
1:dj:90:LEU:CD2	2:eJ:5:THR:HG22	2.18	0.73
1:dk:100:LYS:HG2	1:km:100:LYS:HE3	1.71	0.73
1:dl:102:GLU:OE1	1:hN:99:LEU:HA	1.86	0.73
2:ds:268:THR:OG1	2:du:248:ASN:OD1	2.07	0.73
2:dv:53:PHE:O	2:dv:255:ARG:NH2	2.20	0.73
2:dv:174:ASP:OD1	2:dv:214:ARG:NH2	2.22	0.73
1:dN:99:LEU:CG	1:pC:60:ARG:NH2	2.49	0.73
2:dY:83:THR:OG1	2:dY:204:PHE:O	2.03	0.73
1:dZ:59:VAL:HG12	1:dZ:61:ALA:H	1.53	0.73
2:ev:5:THR:HG22	1:gJ:90:LEU:CD2	2.18	0.73
2:ez:94:ASP:HB2	2:og:12:LEU:HD11	1.70	0.73
1:eG:99:LEU:HD22	1:gk:60:ARG:HD3	1.67	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eQ:100:LYS:CB	1:iG:100:LYS:HE3	2.19	0.73
2:fl:60:ILE:HG13	1:gJ:105:THR:HG21	1.69	0.73
1:fv:105:THR:CG2	2:nl:60:ILE:HG21	2.18	0.73
1:fY:100:LYS:HE3	1:mp:100:LYS:HG2	1.71	0.73
2:gf:132:ASP:OD1	2:gf:133:GLY:N	2.21	0.73
2:gV:132:ASP:OD1	2:gV:133:GLY:N	2.21	0.73
2:hg:268:THR:OG1	2:hi:248:ASN:OD1	2.07	0.73
2:hh:282:ARG:NH1	2:hh:286:GLY:O	2.22	0.73
2:hj:12:LEU:HD11	2:ol:94:ASP:HB2	1.70	0.73
1:ho:63:VAL:HG23	1:ho:99:LEU:HD12	1.70	0.73
2:hw:197:LYS:HE3	2:ja:62:GLN:HG3	1.67	0.73
2:hG:268:THR:OG1	2:hI:248:ASN:OD1	2.07	0.73
2:iy:60:ILE:HG23	1:on:105:THR:HG21	1.68	0.73
2:iZ:282:ARG:NH1	2:iZ:286:GLY:O	2.22	0.73
1:jr:59:VAL:HG12	1:jr:61:ALA:H	1.53	0.73
1:ju:63:VAL:HG23	1:ju:99:LEU:HD12	1.70	0.73
1:jw:105:THR:HG21	2:lJ:60:ILE:HG23	1.68	0.73
2:jO:197:LYS:NZ	1:oN:100:LYS:N	2.36	0.73
1:jU:100:LYS:HG2	1:pT:100:LYS:HE3	1.71	0.73
2:ke:60:ILE:HG23	1:pT:105:THR:HG21	1.68	0.73
2:kf:132:ASP:OD1	2:kf:133:GLY:N	2.21	0.73
2:ks:132:ASP:OD1	2:ks:133:GLY:N	2.21	0.73
2:kD:197:LYS:NZ	1:lP:100:LYS:N	2.36	0.73
2:kE:282:ARG:NH1	2:kE:286:GLY:O	2.22	0.73
1:kL:105:THR:HG23	2:mZ:60:ILE:HG22	1.69	0.73
2:kQ:5:THR:HG22	1:ne:90:LEU:CD2	2.18	0.73
1:kX:100:LYS:CB	1:nj:100:LYS:HE3	2.19	0.73
2:lg:248:ASN:OD1	2:lh:268:THR:OG1	2.07	0.73
1:lC:105:THR:CG2	2:mX:60:ILE:HG21	2.18	0.73
1:ma:59:VAL:HG12	1:ma:61:ALA:H	1.53	0.73
2:mj:197:LYS:HZ2	1:nv:99:LEU:C	1.96	0.73
2:mA:174:ASP:OD1	2:mA:214:ARG:NH2	2.22	0.73
1:mC:59:VAL:HG12	1:mC:61:ALA:H	1.53	0.73
1:mG:105:THR:CG2	2:op:60:ILE:HG21	2.18	0.73
2:mN:61:GLY:O	1:oP:103:ARG:CD	2.35	0.73
2:mO:12:LEU:HD11	2:ow:94:ASP:HB2	1.70	0.73
2:na:282:ARG:NH1	2:na:286:GLY:O	2.22	0.73
2:oU:248:ASN:OD1	2:oV:268:THR:OG1	2.07	0.73
2:pi:282:ARG:NH1	2:pi:286:GLY:O	2.22	0.73
1:pD:63:VAL:HG23	1:pD:99:LEU:HD12	1.70	0.73
2:pX:268:THR:OG1	2:pZ:248:ASN:OD1	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qd:67:ARG:HB3	4:qn:194:LEU:CD1	2.18	0.73
5:qB:96:ARG:CD	5:qD:114:LEU:HD23	2.11	0.73
2:ag:60:ILE:HG21	1:oO:105:THR:CG2	2.18	0.73
2:ai:197:LYS:NZ	1:nh:100:LYS:N	2.36	0.73
2:au:172:LEU:HD13	5:qJ:178:PRO:HG3	1.67	0.73
2:aw:248:ASN:OD1	2:ax:268:THR:OG1	2.07	0.73
1:aB:100:LYS:HG2	1:mV:100:LYS:HE3	1.71	0.73
2:aJ:197:LYS:NZ	1:kL:100:LYS:N	2.36	0.73
1:aO:59:VAL:HG12	1:aO:61:ALA:H	1.54	0.73
2:bj:60:ILE:HG21	1:dn:105:THR:CG2	2.18	0.73
2:bz:268:THR:OG1	2:bB:248:ASN:OD1	2.07	0.73
2:bP:94:ASP:HB2	2:iY:12:LEU:HD11	1.70	0.73
2:cd:132:ASP:OD1	2:cd:133:GLY:N	2.21	0.73
2:cr:132:ASP:OD1	2:cr:133:GLY:N	2.21	0.73
2:cC:60:ILE:HG22	1:pb:105:THR:HG23	1.69	0.73
2:cD:282:ARG:NH1	2:cD:286:GLY:O	2.22	0.73
2:cE:61:GLY:O	1:nL:103:ARG:CD	2.35	0.73
2:dt:248:ASN:OD1	2:du:268:THR:OG1	2.07	0.73
2:dF:5:THR:HG22	1:pm:90:LEU:CD2	2.18	0.73
2:dX:12:LEU:HD11	2:jR:94:ASP:HB2	1.70	0.73
2:ek:294:LEU:HD23	2:ek:295:VAL:HG23	1.71	0.73
1:es:100:LYS:HE3	1:nV:100:LYS:CB	2.19	0.73
1:eC:100:LYS:CB	1:gO:100:LYS:HE3	2.19	0.73
1:eU:100:LYS:HE3	1:iC:100:LYS:CB	2.19	0.73
1:fr:59:VAL:HG12	1:fr:61:ALA:H	1.53	0.73
2:fA:60:ILE:HG22	1:nh:105:THR:HG23	1.69	0.73
2:fR:174:ASP:OD1	2:fR:214:ARG:NH2	2.22	0.73
1:fU:100:LYS:HG2	1:mt:100:LYS:HE3	1.71	0.73
2:gq:60:ILE:CG2	1:hO:105:THR:CG2	2.62	0.73
2:gF:248:ASN:OD1	2:gG:268:THR:OG1	2.07	0.73
2:gF:282:ARG:NH1	2:gF:286:GLY:O	2.22	0.73
1:hc:100:LYS:HE3	1:ox:100:LYS:HG2	1.70	0.73
2:hj:174:ASP:OD1	2:hj:214:ARG:NH2	2.22	0.73
1:hm:99:LEU:CD1	1:iU:102:GLU:CD	2.60	0.73
1:hy:59:VAL:HG12	1:hy:61:ALA:H	1.54	0.73
1:hD:100:LYS:HE3	1:kJ:100:LYS:CB	2.19	0.73
2:hI:60:ILE:HG23	1:kN:105:THR:HG21	1.68	0.73
2:ij:282:ARG:NH1	2:ij:286:GLY:O	2.22	0.73
1:is:100:LYS:HE3	1:oj:100:LYS:CB	2.19	0.73
2:iL:248:ASN:OD1	2:iM:268:THR:OG1	2.07	0.73
1:ju:105:THR:HG23	2:pX:60:ILE:HG22	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jy:60:ILE:HG21	1:pS:105:THR:CG2	2.18	0.73
2:jD:132:ASP:OD1	2:jD:133:GLY:N	2.21	0.73
2:kf:174:ASP:OD1	2:kf:214:ARG:NH2	2.21	0.73
1:kk:63:VAL:HG23	1:kk:99:LEU:HD12	1.70	0.73
2:kC:5:THR:HG22	1:kW:90:LEU:CD2	2.18	0.73
2:kF:294:LEU:HD23	2:kF:295:VAL:HG23	1.71	0.73
2:kS:282:ARG:NH1	2:kS:286:GLY:O	2.22	0.73
2:lf:197:LYS:NZ	1:oz:100:LYS:N	2.36	0.73
1:lB:100:LYS:N	2:oF:197:LYS:NZ	2.36	0.73
2:mz:294:LEU:HD23	2:mz:295:VAL:HG23	1.71	0.73
2:mA:132:ASP:OD1	2:mA:133:GLY:N	2.21	0.73
2:na:248:ASN:OD1	2:nb:268:THR:OG1	2.07	0.73
2:nQ:282:ARG:NH1	2:nQ:286:GLY:O	2.22	0.73
2:oJ:83:THR:OG1	2:oJ:204:PHE:O	2.03	0.73
2:oT:268:THR:OG1	2:oV:248:ASN:OD1	2.07	0.73
1:pm:59:VAL:HG12	1:pm:61:ALA:H	1.53	0.73
2:pw:282:ARG:NH1	2:pw:286:GLY:O	2.22	0.73
2:py:132:ASP:OD1	2:py:133:GLY:N	2.21	0.73
2:pM:174:ASP:OD1	2:pM:214:ARG:NH2	2.22	0.73
2:pY:282:ARG:NH1	2:pY:286:GLY:O	2.22	0.73
5:qD:394:ILE:HD11	5:qF:405:ILE:HG23	1.68	0.73
5:qH:394:ILE:HD11	5:qJ:405:ILE:HG23	1.68	0.73
2:av:268:THR:OG1	2:ax:248:ASN:OD1	2.07	0.73
2:az:95:ASN:OD1	5:qJ:44:LYS:NZ	2.22	0.73
2:az:95:ASN:CG	5:qJ:44:LYS:HD3	2.14	0.73
1:bc:59:VAL:HG12	1:bc:61:ALA:H	1.53	0.73
2:bz:60:ILE:HG22	1:cY:105:THR:HG23	1.69	0.73
2:bA:282:ARG:NH1	2:bA:286:GLY:O	2.22	0.73
1:bH:99:LEU:C	2:gq:197:LYS:HZ1	1.96	0.73
2:cn:60:ILE:HG13	1:iB:105:THR:HG21	1.69	0.73
2:co:268:THR:OG1	2:cq:248:ASN:OD1	2.07	0.73
1:cu:100:LYS:HG2	1:nL:100:LYS:HE3	1.71	0.73
2:cD:248:ASN:OD1	2:cE:268:THR:OG1	2.07	0.73
2:cR:282:ARG:NH1	2:cR:286:GLY:O	2.22	0.73
1:cY:100:LYS:N	2:dG:197:LYS:NZ	2.36	0.73
2:dH:282:ARG:NH1	2:dH:286:GLY:O	2.22	0.73
1:dQ:100:LYS:HE3	1:jG:100:LYS:CB	2.19	0.73
2:ei:60:ILE:HG22	1:nv:105:THR:HG23	1.69	0.73
2:ei:268:THR:OG1	2:ek:248:ASN:OD1	2.07	0.73
2:ek:62:GLN:HG3	2:mm:197:LYS:HE3	1.67	0.73
1:ep:60:ARG:NH2	1:pa:99:LEU:CG	2.49	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eq:105:THR:HG23	2:gE:60:ILE:HG22	1.69	0.73
1:eG:100:LYS:HE3	1:gK:100:LYS:CB	2.19	0.73
2:eN:12:LEU:HD11	2:gV:94:ASP:HB2	1.70	0.73
2:eN:174:ASP:OD1	2:eN:214:ARG:NH2	2.22	0.73
1:fg:100:LYS:N	2:ii:197:LYS:NZ	2.36	0.73
2:fm:268:THR:OG1	2:fo:248:ASN:OD1	2.07	0.73
2:fy:60:ILE:HG21	1:me:105:THR:CG2	2.18	0.73
2:fD:132:ASP:OD1	2:fD:133:GLY:N	2.21	0.73
2:gf:171:TYR:HH	2:gf:175:THR:HG1	1.33	0.73
2:gq:60:ILE:HG22	1:hO:105:THR:HG23	1.69	0.73
1:gx:95:SER:OG	1:gx:96:ASP:OD1	2.07	0.73
2:gS:268:THR:OG1	2:gU:248:ASN:OD1	2.07	0.73
2:hg:63:ARG:NE	2:hj:205:MET:SD	2.57	0.73
2:hu:282:ARG:NH1	2:hu:286:GLY:O	2.22	0.73
1:ie:100:LYS:HE3	1:nt:100:LYS:CB	2.19	0.73
2:ix:248:ASN:OD1	2:iy:268:THR:OG1	2.07	0.73
1:iE:99:LEU:CA	2:pv:197:LYS:HZ1	1.99	0.73
2:jq:83:THR:OG1	2:jq:204:PHE:O	2.03	0.73
2:jA:268:THR:OG1	2:jC:248:ASN:OD1	2.07	0.73
1:jJ:105:THR:CG2	2:pH:60:ILE:HG21	2.18	0.73
2:jP:248:ASN:OD1	2:jQ:268:THR:OG1	2.07	0.73
2:kp:268:THR:OG1	2:kr:248:ASN:OD1	2.07	0.73
1:kW:59:VAL:HG12	1:kW:61:ALA:H	1.53	0.73
1:mC:105:THR:HG21	2:oE:60:ILE:HG13	1.69	0.73
2:nb:294:LEU:HD23	2:nb:295:VAL:HG23	1.71	0.73
2:nq:174:ASP:OD1	2:nq:214:ARG:NH2	2.22	0.73
2:nB:268:THR:OG1	2:nD:248:ASN:OD1	2.07	0.73
2:oW:171:TYR:HH	2:oW:175:THR:HG1	1.36	0.73
2:pZ:294:LEU:HD23	2:pZ:295:VAL:HG23	1.71	0.73
2:qa:132:ASP:OD1	2:qa:133:GLY:N	2.21	0.73
2:qa:174:ASP:OD1	2:qa:214:ARG:NH2	2.22	0.73
3:qi:63:GLN:NE2	4:qn:221:ASP:OD1	2.04	0.73
5:qv:53:GLU:OE2	5:qx:35:HIS:HE1	1.66	0.73
5:qF:394:ILE:HD11	5:qH:405:ILE:HG23	1.68	0.73
1:ac:63:VAL:HG23	1:ac:99:LEU:HD12	1.70	0.73
2:aj:282:ARG:NH1	2:aj:286:GLY:O	2.22	0.73
1:aq:99:LEU:C	2:ds:197:LYS:HZ2	1.96	0.73
2:ax:62:GLN:HG3	2:gt:197:LYS:HE3	1.67	0.73
1:aO:90:LEU:CD2	2:kb:5:THR:HG22	2.18	0.73
2:aY:83:THR:OG1	2:aY:205:MET:SD	2.42	0.73
2:bk:5:THR:HG22	1:dx:90:LEU:CD2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bm:282:ARG:NH1	2:bm:286:GLY:O	2.22	0.73
2:bn:294:LEU:HD23	2:bn:295:VAL:HG23	1.71	0.73
2:bo:132:ASP:OD1	2:bo:133:GLY:N	2.21	0.73
2:bC:132:ASP:OD1	2:bC:133:GLY:N	2.21	0.73
1:bH:63:VAL:HG23	1:bH:99:LEU:HD12	1.70	0.73
1:bS:100:LYS:CB	1:hQ:100:LYS:HE3	2.19	0.73
1:ct:105:THR:HG21	2:pu:60:ILE:HG13	1.69	0.73
2:cC:197:LYS:NZ	1:dO:100:LYS:N	2.36	0.73
1:do:102:GLU:CD	1:ki:99:LEU:CD1	2.60	0.73
1:dL:59:VAL:HG12	1:dL:61:ALA:H	1.53	0.73
1:dN:95:SER:OG	1:dN:96:ASP:OD1	2.07	0.73
1:dZ:105:THR:HG21	2:nO:60:ILE:HG13	1.69	0.73
1:ee:100:LYS:HE3	1:mb:100:LYS:CB	2.19	0.73
2:ex:282:ARG:NH1	2:ex:286:GLY:O	2.22	0.73
1:eF:105:THR:CG2	2:go:60:ILE:HG21	2.18	0.73
2:eL:248:ASN:OD1	2:eM:268:THR:OG1	2.07	0.73
1:ff:95:SER:OG	1:ff:96:ASP:OD1	2.07	0.73
2:fo:294:LEU:HD23	2:fo:295:VAL:HG23	1.71	0.73
1:fl:63:VAL:HG23	1:fl:99:LEU:HD12	1.70	0.73
2:fo:197:LYS:HZ1	1:ha:99:LEU:CA	2.01	0.73
2:fP:282:ARG:NH1	2:fP:286:GLY:O	2.22	0.73
1:fW:99:LEU:CA	2:nB:197:LYS:HZ1	1.99	0.73
1:fY:102:GLU:CD	1:mp:99:LEU:CD1	2.60	0.73
1:fY:105:THR:HG21	2:mz:60:ILE:HG23	1.68	0.73
2:ge:60:ILE:HG23	1:mt:105:THR:HG21	1.68	0.73
1:gy:63:VAL:HG23	1:gy:99:LEU:HD12	1.70	0.73
1:gA:103:ARG:CD	2:pj:61:GLY:O	2.35	0.73
1:hc:105:THR:HG21	2:oH:60:ILE:HG23	1.68	0.73
2:hj:132:ASP:OD1	2:hj:133:GLY:N	2.21	0.73
1:hz:100:LYS:CB	1:kN:100:LYS:HE3	2.19	0.73
1:hD:100:LYS:HE3	1:kJ:100:LYS:HG2	1.71	0.73
1:hD:102:GLU:CD	1:kJ:99:LEU:CD1	2.60	0.73
1:hO:63:VAL:HG23	1:hO:99:LEU:HD12	1.70	0.73
1:ip:99:LEU:CD1	1:pQ:60:ARG:CD	2.44	0.73
1:iE:63:VAL:HG23	1:iE:99:LEU:HD12	1.70	0.73
2:iY:197:LYS:NZ	1:kk:100:LYS:N	2.36	0.73
2:jn:282:ARG:NH1	2:jn:286:GLY:O	2.22	0.73
2:jz:60:ILE:HG13	1:lk:105:THR:HG21	1.69	0.73
2:jO:268:THR:OG1	2:jQ:248:ASN:OD1	2.07	0.73
1:jW:100:LYS:N	2:mZ:197:LYS:NZ	2.36	0.73
2:kq:282:ARG:NH1	2:kq:286:GLY:O	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kP:60:ILE:HG21	1:mU:105:THR:CG2	2.18	0.73
1:lk:59:VAL:HG12	1:lk:61:ALA:H	1.53	0.73
1:lM:59:VAL:HG12	1:lM:61:ALA:H	1.54	0.73
2:mi:5:THR:HG22	1:mC:90:LEU:CD2	2.18	0.73
2:mk:282:ARG:NH1	2:mk:286:GLY:O	2.22	0.73
1:mD:100:LYS:CB	1:oP:100:LYS:HE3	2.19	0.73
1:nX:63:VAL:HG23	1:nX:99:LEU:HD12	1.70	0.73
2:od:268:THR:OG1	2:of:248:ASN:OD1	2.07	0.73
2:oe:248:ASN:OD1	2:of:268:THR:OG1	2.07	0.73
2:oU:282:ARG:NH1	2:oU:286:GLY:O	2.22	0.73
2:oW:132:ASP:OD1	2:oW:133:GLY:N	2.21	0.73
2:oW:174:ASP:OD1	2:oW:214:ARG:NH2	2.22	0.73
2:pk:174:ASP:OD1	2:pk:214:ARG:NH2	2.22	0.73
1:pp:105:THR:HG23	2:pJ:60:ILE:HG22	1.69	0.73
2:qa:53:PHE:O	2:qa:255:ARG:NH2	2.20	0.73
3:qi:67:ARG:HB3	4:qo:194:LEU:HD13	1.70	0.73
6:qq:58:LEU:CD1	6:qM:112:LEU:CD2	0.73	0.73
6:qu:112:LEU:CD2	6:qw:58:LEU:CD1	0.73	0.73
1:aa:100:LYS:HG2	1:fw:100:LYS:HE3	1.71	0.73
1:ab:60:ARG:NH2	1:mE:99:LEU:CG	2.49	0.73
1:as:100:LYS:HE3	1:gi:100:LYS:HG2	1.71	0.73
1:aA:100:LYS:CG	1:kn:100:LYS:HZ3	1.91	0.73
1:aD:100:LYS:N	2:ht:197:LYS:NZ	2.36	0.73
2:aI:5:THR:HG22	1:jd:90:LEU:CD2	2.18	0.73
1:aT:102:GLU:CD	1:pn:99:LEU:CD1	2.60	0.73
2:aX:60:ILE:HG22	1:iE:105:THR:HG23	1.69	0.73
2:bP:12:LEU:HD11	2:lY:94:ASP:HB2	1.70	0.73
2:bZ:106:MET:HG3	2:bZ:184:TYR:HD1	1.54	0.73
1:cy:100:LYS:HE3	1:nH:100:LYS:CB	2.19	0.73
2:cF:174:ASP:OD1	2:cF:214:ARG:NH2	2.22	0.73
1:cJ:60:ARG:CD	1:iD:99:LEU:CD1	2.44	0.73
2:cQ:268:THR:OG1	2:cS:248:ASN:OD1	2.07	0.73
2:cT:12:LEU:HD11	2:pM:94:ASP:HB2	1.70	0.73
1:cX:95:SER:OG	1:cX:96:ASP:OD1	2.07	0.73
2:de:268:THR:OG1	2:dg:248:ASN:OD1	2.07	0.73
2:ds:107:GLY:HA3	2:ds:184:TYR:OH	1.86	0.73
2:du:61:GLY:O	1:km:103:ARG:CD	2.35	0.73
1:dA:100:LYS:N	2:gE:197:LYS:NZ	2.36	0.73
1:ep:95:SER:OG	1:ep:96:ASP:OD1	2.07	0.73
2:eu:60:ILE:HG21	1:gZ:105:THR:CG2	2.18	0.73
1:eE:63:VAL:HG23	1:eE:99:LEU:HD12	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fG:100:LYS:CB	1:kz:100:LYS:HE3	2.19	0.73
2:fN:5:THR:HG22	1:gh:90:LEU:CD2	2.18	0.73
2:gf:174:ASP:OD1	2:gf:214:ARG:NH2	2.22	0.73
2:gH:132:ASP:OD1	2:gH:133:GLY:N	2.21	0.73
2:gQ:60:ILE:HG21	1:lQ:105:THR:CG2	2.18	0.73
2:gT:282:ARG:NH1	2:gT:286:GLY:O	2.22	0.73
1:hc:100:LYS:HE3	1:ox:100:LYS:CB	2.19	0.73
1:hB:100:LYS:N	2:IV:197:LYS:NZ	2.36	0.73
2:hT:225:GLN:O	2:hT:238:ASN:ND2	2.22	0.73
1:ia:100:LYS:CB	1:nx:100:LYS:HE3	2.19	0.73
1:in:59:VAL:HG12	1:in:61:ALA:H	1.54	0.73
1:io:100:LYS:CB	1:on:100:LYS:HE3	2.19	0.73
1:iD:102:GLU:OE1	1:po:99:LEU:HA	1.86	0.73
1:jf:95:SER:OG	1:jf:96:ASP:OD1	2.07	0.73
2:jP:282:ARG:NH1	2:jP:286:GLY:O	2.22	0.73
2:kG:174:ASP:OD1	2:kG:214:ARG:NH2	2.22	0.73
2:le:225:GLN:O	2:le:238:ASN:ND2	2.22	0.73
1:lm:60:ARG:NH2	1:pQ:99:LEU:CG	2.49	0.73
1:mD:100:LYS:HG2	1:oP:100:LYS:HE3	1.71	0.73
1:mQ:90:LEU:CD2	2:oq:5:THR:HG22	2.18	0.73
2:nE:174:ASP:OD1	2:nE:214:ARG:NH2	2.22	0.73
1:nU:59:VAL:HG12	1:nU:61:ALA:H	1.54	0.73
2:pw:248:ASN:OD1	2:px:268:THR:OG1	2.07	0.73
1:pQ:95:SER:OG	1:pQ:96:ASP:OD1	2.07	0.73
3:qd:67:ARG:CA	4:qn:194:LEU:CD1	2.67	0.73
3:qf:68:ALA:CB	4:ql:8:TYR:CZ	2.72	0.73
3:qg:68:ALA:HB2	4:qk:8:TYR:HH	1.52	0.73
3:qi:68:ALA:H	4:qo:8:TYR:HE2	0.78	0.73
6:qq:112:LEU:CD2	6:qs:58:LEU:CD1	0.73	0.73
6:qw:112:LEU:CD2	6:qy:58:LEU:CD1	0.73	0.73
5:qJ:394:ILE:HD11	5:qL:405:ILE:HG23	1.68	0.73
1:an:59:VAL:HG12	1:an:61:ALA:H	1.53	0.73
2:aw:282:ARG:NH1	2:aw:286:GLY:O	2.22	0.73
2:ay:174:ASP:OD1	2:ay:214:ARG:NH2	2.22	0.73
1:aT:100:LYS:HE3	1:pn:100:LYS:CB	2.19	0.73
2:ba:132:ASP:OD1	2:ba:133:GLY:N	2.21	0.73
1:bF:100:LYS:HG2	1:lR:100:LYS:HE3	1.71	0.73
1:bJ:100:LYS:HE3	1:lN:100:LYS:HG2	1.70	0.73
1:bT:95:SER:OG	1:bT:96:ASP:OD1	2.07	0.73
2:cd:12:LEU:HD11	2:hX:94:ASP:HB2	1.70	0.73
1:ck:100:LYS:HE3	1:ll:100:LYS:HG2	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cz:101:VAL:CG1	2:pg:198:GLU:CD	2.58	0.73
1:cM:103:ARG:CD	2:pL:61:GLY:O	2.35	0.73
2:du:294:LEU:HD23	2:du:295:VAL:HG23	1.71	0.73
2:dG:105:GLU:OE2	2:dG:108:ARG:NH1	2.22	0.73
1:dM:100:LYS:CB	1:jK:100:LYS:HE3	2.19	0.73
1:dR:99:LEU:HG	1:oY:102:GLU:OE2	1.74	0.73
1:eb:60:ARG:CD	1:nW:99:LEU:CD1	2.44	0.73
2:eN:197:LYS:HE3	2:gU:62:GLN:HG3	1.67	0.73
2:fb:174:ASP:OD1	2:fb:214:ARG:NH2	2.22	0.73
2:fn:282:ARG:NH1	2:fn:286:GLY:O	2.22	0.73
2:fq:83:THR:OG1	2:fq:204:PHE:O	2.03	0.73
2:fN:225:GLN:O	2:fN:238:ASN:ND2	2.22	0.73
1:fT:90:LEU:CD2	2:lU:5:THR:HG22	2.18	0.73
2:gb:225:GLN:O	2:gb:238:ASN:ND2	2.22	0.73
2:gr:248:ASN:OD1	2:gs:268:THR:OG1	2.07	0.73
2:gG:294:LEU:HD23	2:gG:295:VAL:HG23	1.71	0.73
1:gX:90:LEU:CD2	2:ih:5:THR:HG22	2.18	0.73
2:ht:105:GLU:OE2	2:ht:108:ARG:NH1	2.22	0.73
2:hH:248:ASN:OD1	2:hI:268:THR:OG1	2.07	0.73
2:hV:282:ARG:NH1	2:hV:286:GLY:O	2.22	0.73
1:ib:95:SER:OG	1:ib:96:ASP:OD1	2.07	0.73
2:il:132:ASP:OD1	2:il:133:GLY:N	2.21	0.73
1:io:100:LYS:HG2	1:on:100:LYS:HE3	1.71	0.73
2:iv:225:GLN:O	2:iv:238:ASN:ND2	2.22	0.73
2:iZ:248:ASN:OD1	2:ja:268:THR:OG1	2.07	0.73
2:jp:174:ASP:OD1	2:jp:214:ARG:NH2	2.22	0.73
2:jB:282:ARG:NH1	2:jB:286:GLY:O	2.22	0.73
1:jT:90:LEU:CD2	2:pI:5:THR:HG22	2.18	0.73
1:kh:59:VAL:HG12	1:kh:61:ALA:H	1.53	0.73
2:kV:262:ASN:HA	2:kV:295:VAL:HG22	1.71	0.73
1:lb:100:LYS:HE3	1:nf:100:LYS:CB	2.19	0.73
2:li:94:ASP:HB2	2:nq:12:LEU:HD11	1.70	0.73
2:lv:294:LEU:HD23	2:lv:295:VAL:HG23	1.71	0.73
2:mj:105:GLU:OE2	2:mj:108:ARG:NH1	2.22	0.73
2:mP:83:THR:OG1	2:mP:204:PHE:O	2.03	0.73
2:mZ:105:GLU:OE2	2:mZ:108:ARG:NH1	2.22	0.73
2:nc:132:ASP:OD1	2:nc:133:GLY:N	2.21	0.73
2:no:282:ARG:NH1	2:no:286:GLY:O	2.22	0.73
2:nO:225:GLN:O	2:nO:238:ASN:ND2	2.22	0.73
2:nP:105:GLU:OE2	2:nP:108:ARG:NH1	2.22	0.73
2:nP:268:THR:OG1	2:nR:248:ASN:OD1	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oe:282:ARG:NH1	2:oe:286:GLY:O	2.22	0.73
2:og:225:GLN:O	2:og:238:ASN:ND2	2.22	0.73
2:or:268:THR:OG1	2:ot:248:ASN:OD1	2.07	0.73
2:ou:174:ASP:OD1	2:ou:214:ARG:NH2	2.22	0.73
1:om:95:SER:OG	1:om:96:ASP:OD1	2.07	0.73
2:pk:132:ASP:OD1	2:pk:133:GLY:N	2.21	0.73
3:qg:66:GLN:CA	4:qk:10:GLN:CG	2.64	0.73
5:qF:398:TRP:CH2	5:qH:405:ILE:CD1	2.72	0.73
2:ak:62:GLN:HG3	2:fd:197:LYS:HE3	1.67	0.72
2:al:12:LEU:HD11	2:fd:94:ASP:HB2	1.69	0.72
1:ao:100:LYS:CB	1:gm:100:LYS:HE3	2.19	0.72
1:ap:95:SER:OG	1:ap:96:ASP:OD1	2.07	0.72
2:aK:282:ARG:NH1	2:aK:286:GLY:O	2.22	0.72
2:aW:225:GLN:O	2:aW:238:ASN:ND2	2.22	0.72
1:bf:60:ARG:HD3	1:do:99:LEU:HD22	1.67	0.72
2:bn:62:GLN:HG3	2:jp:197:LYS:HE3	1.67	0.72
1:bv:100:LYS:HE3	1:dy:100:LYS:HG2	1.71	0.72
2:bC:94:ASP:HB2	2:dJ:12:LEU:HD11	1.70	0.72
2:bC:174:ASP:OD1	2:bC:214:ARG:NH2	2.21	0.72
2:co:197:LYS:NZ	1:jg:100:LYS:N	2.36	0.72
2:cB:106:MET:HG3	2:cB:184:TYR:HD1	1.54	0.72
1:cW:100:LYS:HG2	1:fi:100:LYS:HE3	1.71	0.72
1:cX:99:LEU:CG	1:gx:60:ARG:NH2	2.49	0.72
1:db:100:LYS:NZ	1:eP:100:LYS:CG	2.40	0.72
2:dt:282:ARG:NH1	2:dt:286:GLY:O	2.22	0.72
1:dO:105:THR:HG23	2:nP:60:ILE:HG22	1.69	0.72
2:eh:225:GLN:O	2:eh:238:ASN:ND2	2.22	0.72
2:ei:197:LYS:NZ	1:fu:100:LYS:N	2.36	0.72
2:ej:282:ARG:NH1	2:ej:286:GLY:O	2.22	0.72
1:eB:59:VAL:HG12	1:eB:61:ALA:H	1.53	0.72
1:eS:63:VAL:HG23	1:eS:99:LEU:HD12	1.70	0.72
2:eY:105:GLU:OE2	2:eY:108:ARG:NH1	2.22	0.72
2:fQ:294:LEU:HD23	2:fQ:295:VAL:HG23	1.71	0.72
2:gd:248:ASN:OD1	2:ge:268:THR:OG1	2.07	0.72
2:ge:294:LEU:HD23	2:ge:295:VAL:HG23	1.71	0.72
1:gY:100:LYS:HG2	1:ob:100:LYS:HE3	1.71	0.72
2:hJ:174:ASP:OD1	2:hJ:214:ARG:NH2	2.22	0.72
2:ii:105:GLU:OE2	2:ii:108:ARG:NH1	2.22	0.72
2:iW:60:ILE:HG21	1:jh:105:THR:CG2	2.18	0.72
2:jl:225:GLN:O	2:jl:238:ASN:ND2	2.22	0.72
2:jD:174:ASP:OD1	2:jD:214:ARG:NH2	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jO:105:GLU:OE2	2:jO:108:ARG:NH1	2.22	0.72
2:kD:105:GLU:OE2	2:kD:108:ARG:NH1	2.22	0.72
2:kR:105:GLU:OE2	2:kR:108:ARG:NH1	2.22	0.72
1:lm:95:SER:OG	1:lm:96:ASP:OD1	2.07	0.72
2:lw:174:ASP:OD1	2:lw:214:ARG:NH2	2.22	0.72
2:lx:262:ASN:HA	2:lx:295:VAL:HG22	1.71	0.72
2:IV:268:THR:OG1	2:IX:248:ASN:OD1	2.07	0.72
2:mj:197:LYS:NZ	1:nv:100:LYS:N	2.36	0.72
2:my:248:ASN:OD1	2:mz:268:THR:OG1	2.07	0.72
2:mM:282:ARG:NH1	2:mM:286:GLY:O	2.22	0.72
2:nd:83:THR:OG1	2:nd:204:PHE:O	2.03	0.72
1:nh:63:VAL:HG23	1:nh:99:LEU:HD12	1.70	0.72
2:oc:225:GLN:O	2:oc:238:ASN:ND2	2.22	0.72
1:ow:90:LEU:CD2	2:pW:5:THR:HG22	2.18	0.72
2:oG:248:ASN:OD1	2:oH:268:THR:OG1	2.07	0.72
2:pu:225:GLN:O	2:pu:238:ASN:ND2	2.22	0.72
2:pv:105:GLU:OE2	2:pv:108:ARG:NH1	2.22	0.72
2:pz:83:THR:OG1	2:pz:204:PHE:O	2.03	0.72
3:qg:25:LEU:HD21	6:qG:82:VAL:HB	1.70	0.72
4:qm:222:GLY:C	4:qn:8:TYR:HH	1.94	0.72
5:qx:394:ILE:HD11	5:qz:405:ILE:HG23	1.68	0.72
6:qA:112:LEU:CD2	6:qC:58:LEU:CD1	0.73	0.72
6:qC:112:LEU:CD2	6:qE:58:LEU:CD1	0.73	0.72
5:qJ:398:TRP:CH2	5:qL:405:ILE:CD1	2.72	0.72
6:qK:112:LEU:CD2	6:qM:58:LEU:CD1	0.73	0.72
1:as:100:LYS:HE3	1:gi:100:LYS:CB	2.19	0.72
2:aJ:105:GLU:OE2	2:aJ:108:ARG:NH1	2.22	0.72
1:aR:63:VAL:HG23	1:aR:99:LEU:HD12	1.70	0.72
2:bo:94:ASP:HB2	2:jp:12:LEU:HD11	1.70	0.72
2:bM:105:GLU:OE2	2:bM:108:ARG:NH1	2.22	0.72
2:bP:174:ASP:OD1	2:bP:214:ARG:NH2	2.21	0.72
2:bZ:225:GLN:O	2:bZ:238:ASN:ND2	2.22	0.72
1:cf:105:THR:HG21	2:iJ:60:ILE:HG13	1.68	0.72
1:cl:99:LEU:HG	1:iB:102:GLU:OE2	1.74	0.72
2:cG:262:ASN:HA	2:cG:295:VAL:HG22	1.71	0.72
2:dd:106:MET:HG3	2:dd:184:TYR:HD1	1.54	0.72
1:dk:100:LYS:CB	1:km:100:LYS:HE3	2.19	0.72
2:dJ:174:ASP:OD1	2:dJ:214:ARG:NH2	2.22	0.72
2:dX:174:ASP:OD1	2:dX:214:ARG:NH2	2.22	0.72
2:ez:174:ASP:OD1	2:ez:214:ARG:NH2	2.22	0.72
2:eK:268:THR:OG1	2:eM:248:ASN:OD1	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fb:94:ASP:HB2	2:iN:12:LEU:HD11	1.69	0.72
2:fB:248:ASN:OD1	2:fC:268:THR:OG1	2.07	0.72
2:fD:174:ASP:OD1	2:fD:214:ARG:NH2	2.22	0.72
2:fO:197:LYS:NZ	1:ha:100:LYS:N	2.36	0.72
2:gd:282:ARG:NH1	2:gd:286:GLY:O	2.22	0.72
2:ht:268:THR:OG1	2:hv:248:ASN:OD1	2.07	0.72
2:il:174:ASP:OD1	2:il:214:ARG:NH2	2.22	0.72
1:iD:95:SER:OG	1:iD:96:ASP:OD1	2.07	0.72
1:iR:95:SER:OG	1:iR:96:ASP:OD1	2.07	0.72
1:iS:105:THR:HG23	2:jm:60:ILE:HG22	1.69	0.72
2:iX:106:MET:HG3	2:iX:184:TYR:HD1	1.54	0.72
2:iY:105:GLU:OE2	2:iY:108:ARG:NH1	2.22	0.72
1:ju:100:LYS:N	2:kc:197:LYS:NZ	2.36	0.72
2:jA:105:GLU:OE2	2:jA:108:ARG:NH1	2.22	0.72
2:jD:12:LEU:HD11	2:lK:94:ASP:HB2	1.70	0.72
1:jI:63:VAL:HG23	1:jI:99:LEU:HD12	1.70	0.72
2:jO:60:ILE:HG22	1:pD:105:THR:HG23	1.69	0.72
2:jQ:294:LEU:HD23	2:jQ:295:VAL:HG23	1.71	0.72
1:jT:59:VAL:HG12	1:jT:61:ALA:H	1.53	0.72
1:jU:100:LYS:CB	1:pT:100:LYS:HE3	2.19	0.72
2:kd:248:ASN:OD1	2:ke:268:THR:OG1	2.06	0.72
2:kQ:106:MET:HG3	2:kQ:184:TYR:HD1	1.54	0.72
2:li:174:ASP:OD1	2:li:214:ARG:NH2	2.22	0.72
1:md:60:ARG:CD	1:mt:99:LEU:HD21	2.18	0.72
2:mO:94:ASP:HB2	2:oW:12:LEU:HD11	1.70	0.72
2:nO:106:MET:HG3	2:nO:184:TYR:HD1	1.54	0.72
2:nP:197:LYS:NZ	1:pb:100:LYS:N	2.36	0.72
2:oI:174:ASP:OD1	2:oI:214:ARG:NH2	2.22	0.72
1:oK:59:VAL:HG12	1:oK:61:ALA:H	1.53	0.72
3:qh:68:ALA:HB2	4:qj:8:TYR:HH	1.53	0.72
3:qi:64:GLY:C	4:qo:10:GLN:NE2	2.47	0.72
6:qs:112:LEU:CD2	6:qu:58:LEU:CD1	0.73	0.72
6:qy:112:LEU:CD2	6:qA:58:LEU:CD1	0.73	0.72
6:qE:112:LEU:CD2	6:qG:58:LEU:CD1	0.73	0.72
6:qG:112:LEU:CD2	6:qI:58:LEU:CD1	0.73	0.72
2:ah:106:MET:HG3	2:ah:184:TYR:HD1	1.54	0.72
2:ay:94:ASP:HB2	2:gt:12:LEU:HD11	1.70	0.72
1:aB:100:LYS:CB	1:mV:100:LYS:HE3	2.19	0.72
1:aD:105:THR:HG23	2:iY:60:ILE:HG22	1.69	0.72
1:bE:59:VAL:HG12	1:bE:61:ALA:H	1.53	0.72
1:cJ:60:ARG:NE	1:iD:99:LEU:CG	2.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cK:60:ARG:CD	1:eU:99:LEU:HD21	2.18	0.72
1:cM:100:LYS:HE3	1:pB:100:LYS:CB	2.19	0.72
1:dx:59:VAL:HG12	1:dx:61:ALA:H	1.54	0.72
1:dN:99:LEU:CD1	1:pC:60:ARG:NH1	2.26	0.72
1:dQ:99:LEU:HD22	1:oN:60:ARG:HD3	1.67	0.72
1:ep:60:ARG:NE	1:pa:99:LEU:CG	2.53	0.72
1:eC:100:LYS:HG2	1:gO:100:LYS:HE3	1.71	0.72
1:eP:59:VAL:HG12	1:eP:61:ALA:H	1.54	0.72
2:eZ:282:ARG:NH1	2:eZ:286:GLY:O	2.22	0.72
2:fc:262:ASN:HA	2:fc:295:VAL:HG22	1.72	0.72
2:fC:294:LEU:HD23	2:fC:295:VAL:HG23	1.71	0.72
2:gf:94:ASP:HB2	2:mA:12:LEU:HD11	1.70	0.72
2:gr:282:ARG:NH1	2:gr:286:GLY:O	2.22	0.72
1:gv:90:LEU:CD2	2:hT:5:THR:HG22	2.18	0.72
1:gA:100:LYS:HE3	1:oZ:100:LYS:CB	2.19	0.72
1:gM:105:THR:HG23	2:IV:60:ILE:HG22	1.69	0.72
2:gR:225:GLN:O	2:gR:238:ASN:ND2	2.22	0.72
2:gV:174:ASP:OD1	2:gV:214:ARG:NH2	2.22	0.72
1:hl:59:VAL:HG12	1:hl:61:ALA:H	1.53	0.72
1:hL:59:VAL:HG12	1:hL:61:ALA:H	1.54	0.72
2:ix:282:ARG:NH1	2:ix:286:GLY:O	2.22	0.72
2:iO:83:THR:OG1	2:iO:204:PHE:O	2.03	0.72
2:iX:198:GLU:CD	1:jj:101:VAL:CG1	2.58	0.72
2:jl:106:MET:HG3	2:jl:184:TYR:HD1	1.54	0.72
1:jH:99:LEU:CG	1:oM:60:ARG:NE	2.53	0.72
1:jY:100:LYS:HE3	1:pP:100:LYS:HG2	1.71	0.72
2:kc:60:ILE:HG22	1:ln:105:THR:HG23	1.69	0.72
2:kc:105:GLU:OE2	2:kc:108:ARG:NH1	2.22	0.72
2:kd:282:ARG:NH1	2:kd:286:GLY:O	2.22	0.72
2:kt:111:GLY:HA2	5:qD:178:PRO:HD2	1.70	0.72
2:IL:262:ASN:HA	2:IL:295:VAL:HG22	1.72	0.72
2:ml:294:LEU:HD23	2:ml:295:VAL:HG23	1.71	0.72
1:mq:95:SER:OG	1:mq:96:ASP:OD1	2.07	0.72
2:mw:106:MET:HG3	2:mw:184:TYR:HD1	1.54	0.72
2:mB:262:ASN:HA	2:mB:295:VAL:HG22	1.72	0.72
1:mQ:59:VAL:HG12	1:mQ:61:ALA:H	1.53	0.72
2:mY:225:GLN:O	2:mY:238:ASN:ND2	2.22	0.72
2:no:248:ASN:OD1	2:np:268:THR:OG1	2.07	0.72
2:nR:294:LEU:HD23	2:nR:295:VAL:HG23	1.71	0.72
1:ol:63:VAL:HG23	1:ol:99:LEU:HD12	1.70	0.72
2:oS:106:MET:HG3	2:oS:184:TYR:HD1	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pX:105:GLU:OE2	2:pX:108:ARG:NH1	2.22	0.72
3:qh:141:LEU:HD23	3:qh:143:PHE:CE2	2.24	0.72
3:qi:141:LEU:HD23	3:qi:143:PHE:CE2	2.24	0.72
5:qJ:252:LEU:CD2	6:qM:126:GLN:CB	2.58	0.72
1:af:101:VAL:CG1	2:oc:198:GLU:CD	2.58	0.72
2:ai:105:GLU:OE2	2:ai:108:ARG:NH1	2.22	0.72
2:ak:294:LEU:HD23	2:ak:295:VAL:HG23	1.71	0.72
2:al:94:ASP:HB2	2:fD:12:LEU:HD11	1.70	0.72
2:ay:12:LEU:HD11	2:gt:94:ASP:HB2	1.70	0.72
2:aY:282:ARG:NH1	2:aY:286:GLY:O	2.22	0.72
1:bh:100:LYS:HE3	1:je:100:LYS:HG2	1.71	0.72
2:bz:105:GLU:OE2	2:bz:108:ARG:NH1	2.22	0.72
1:bT:60:ARG:NE	1:eR:99:LEU:CG	2.53	0.72
2:ca:105:GLU:OE2	2:ca:108:ARG:NH1	2.22	0.72
2:cb:282:ARG:NH1	2:cb:286:GLY:O	2.22	0.72
2:cq:294:LEU:HD23	2:cq:295:VAL:HG23	1.71	0.72
2:cr:94:ASP:HB2	2:lw:12:LEU:HD11	1.70	0.72
1:cw:100:LYS:N	2:pJ:197:LYS:NZ	2.36	0.72
2:cB:198:GLU:CD	1:cN:101:VAL:CG1	2.58	0.72
2:cC:268:THR:OG1	2:cE:248:ASN:OD1	2.07	0.72
2:de:105:GLU:OE2	2:de:108:ARG:NH1	2.22	0.72
1:dm:63:VAL:HG23	1:dm:99:LEU:HD12	1.70	0.72
2:dF:198:GLU:CD	1:pe:101:VAL:CG1	2.58	0.72
2:dW:294:LEU:HD23	2:dW:295:VAL:HG23	1.71	0.72
1:ep:102:GLU:OE1	1:pa:99:LEU:HA	1.86	0.72
1:eB:102:GLU:OE2	1:gB:99:LEU:HG	1.74	0.72
1:ft:99:LEU:CD1	1:nW:60:ARG:NH1	2.25	0.72
2:fz:225:GLN:O	2:fz:238:ASN:ND2	2.22	0.72
2:fA:105:GLU:OE2	2:fA:108:ARG:NH1	2.22	0.72
1:gh:59:VAL:HG12	1:gh:61:ALA:H	1.54	0.72
2:gH:174:ASP:OD1	2:gH:214:ARG:NH2	2.22	0.72
2:hG:105:GLU:OE2	2:hG:108:ARG:NH1	2.22	0.72
2:hT:106:MET:HG3	2:hT:184:TYR:HD1	1.54	0.72
2:kS:248:ASN:OD1	2:kT:268:THR:OG1	2.07	0.72
2:lf:105:GLU:OE2	2:lf:108:ARG:NH1	2.22	0.72
2:lg:282:ARG:NH1	2:lg:286:GLY:O	2.22	0.72
1:lA:95:SER:OG	1:lA:96:ASP:OD1	2.07	0.72
1:mI:101:VAL:CG1	2:oq:198:GLU:CD	2.58	0.72
2:mZ:268:THR:OG1	2:nB:248:ASN:OD1	2.07	0.72
1:ol:100:LYS:N	2:OT:197:LYS:NZ	2.36	0.72
1:oy:95:SER:OG	1:oy:96:ASP:OD1	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oH:294:LEU:HD23	2:oH:295:VAL:HG23	1.71	0.72
1:pp:63:VAL:HG23	1:pp:99:LEU:HD12	1.70	0.72
3:qd:141:LEU:HD23	3:qd:143:PHE:CE2	2.24	0.72
6:qI:112:LEU:CD2	6:qK:58:LEU:CD1	0.73	0.72
1:ab:60:ARG:NE	1:mE:99:LEU:CG	2.53	0.72
1:ae:100:LYS:HE3	1:fs:100:LYS:HG2	1.71	0.72
1:an:90:LEU:CD2	2:oc:5:THR:HG22	2.18	0.72
2:aM:171:TYR:HH	2:aM:175:THR:HG1	1.36	0.72
1:br:100:LYS:CB	1:dC:100:LYS:HE3	2.19	0.72
2:cd:174:ASP:OD1	2:cd:214:ARG:NH2	2.22	0.72
1:cf:59:VAL:HG12	1:cf:61:ALA:H	1.53	0.72
1:cM:100:LYS:HE3	1:pB:100:LYS:HG2	1.71	0.72
2:cR:248:ASN:OD1	2:cS:268:THR:OG1	2.07	0.72
2:df:282:ARG:NH1	2:df:286:GLY:O	2.22	0.72
2:dg:62:GLN:HG3	2:fp:197:LYS:HE3	1.67	0.72
2:dv:94:ASP:HB2	2:ks:12:LEU:HD11	1.70	0.72
1:dQ:102:GLU:CD	1:jG:99:LEU:CD1	2.60	0.72
2:dT:225:GLN:O	2:dT:238:ASN:ND2	2.22	0.72
1:ea:100:LYS:CB	1:mf:100:LYS:HE3	2.19	0.72
2:ei:105:GLU:OE2	2:ei:108:ARG:NH1	2.22	0.72
2:ej:83:THR:OG1	2:ej:205:MET:SD	2.42	0.72
2:el:12:LEU:HD11	2:mm:94:ASP:HB2	1.70	0.72
2:eN:132:ASP:OD1	2:eN:133:GLY:N	2.21	0.72
2:fm:60:ILE:HG22	1:gy:105:THR:HG23	1.69	0.72
2:fA:197:LYS:NZ	1:nX:100:LYS:N	2.36	0.72
1:fF:59:VAL:HG12	1:fF:61:ALA:H	1.54	0.72
2:fO:105:GLU:OE2	2:fO:108:ARG:NH1	2.22	0.72
2:fR:94:ASP:HB2	2:kG:12:LEU:HD11	1.70	0.72
1:fT:59:VAL:HG12	1:fT:61:ALA:H	1.54	0.72
1:fW:105:THR:HG23	2:ii:60:ILE:HG22	1.69	0.72
1:gL:95:SER:OG	1:gL:96:ASP:OD1	2.07	0.72
2:hv:294:LEU:HD23	2:hv:295:VAL:HG23	1.71	0.72
2:hH:282:ARG:NH1	2:hH:286:GLY:O	2.22	0.72
1:ic:63:VAL:HG23	1:ic:99:LEU:HD12	1.70	0.72
2:iz:12:LEU:HD11	2:ou:94:ASP:HB2	1.70	0.72
2:iA:262:ASN:HA	2:iA:295:VAL:HG22	1.71	0.72
2:iX:225:GLN:O	2:iX:238:ASN:ND2	2.22	0.72
1:jd:102:GLU:OE2	1:jj:99:LEU:HG	1.74	0.72
2:jn:248:ASN:OD1	2:jo:268:THR:OG1	2.07	0.72
2:jo:294:LEU:HD23	2:jo:295:VAL:HG23	1.71	0.72
2:jC:294:LEU:HD23	2:jC:295:VAL:HG23	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jN:106:MET:HG3	2:jN:184:TYR:HD1	1.54	0.72
2:jR:174:ASP:OD1	2:jR:214:ARG:NH2	2.22	0.72
2:kc:268:THR:OG1	2:ke:248:ASN:OD1	2.07	0.72
1:kX:100:LYS:HG2	1:nj:100:LYS:HE3	1.71	0.72
2:lt:105:GLU:OE2	2:lt:108:ARG:NH1	2.22	0.72
1:ly:59:VAL:HG12	1:ly:61:ALA:H	1.54	0.72
2:ll:282:ARG:NH1	2:ll:286:GLY:O	2.22	0.72
2:mi:225:GLN:O	2:mi:238:ASN:ND2	2.22	0.72
1:mo:100:LYS:HG2	1:mu:100:LYS:HZ1	1.53	0.72
2:mL:268:THR:OG1	2:mN:248:ASN:OD1	2.07	0.72
1:ne:59:VAL:HG12	1:ne:61:ALA:H	1.54	0.72
2:nB:105:GLU:OE2	2:nB:108:ARG:NH1	2.22	0.72
2:nC:248:ASN:OD1	2:nD:268:THR:OG1	2.07	0.72
2:oc:184:TYR:HH	2:oc:204:PHE:HD1	1.37	0.72
1:oi:59:VAL:HG12	1:oi:61:ALA:H	1.53	0.72
2:pK:282:ARG:NH1	2:pK:286:GLY:O	2.22	0.72
3:qg:68:ALA:HB1	4:qj:222:GLY:C	2.11	0.72
3:qh:84:TYR:CD1	6:qI:20:GLU:OE2	2.40	0.72
3:qi:66:GLN:CA	4:qo:8:TYR:HD2	2.03	0.72
5:qp:394:ILE:HD11	5:qr:405:ILE:HG23	1.68	0.72
6:qw:112:LEU:HD21	6:qy:58:LEU:CB	2.20	0.72
1:as:99:LEU:HD22	1:bH:60:ARG:HD3	1.67	0.72
2:av:105:GLU:OE2	2:av:108:ARG:NH1	2.22	0.72
2:az:83:THR:OG1	2:az:204:PHE:O	2.03	0.72
1:aP:100:LYS:CB	1:pr:100:LYS:HE3	2.19	0.72
1:br:100:LYS:HG2	1:dC:100:LYS:HE3	1.71	0.72
1:bG:95:SER:OG	1:bG:96:ASP:OD1	2.07	0.72
1:bG:99:LEU:CG	1:gL:60:ARG:NE	2.53	0.72
2:bO:294:LEU:HD23	2:bO:295:VAL:HG23	1.71	0.72
2:ce:262:ASN:HA	2:ce:295:VAL:HG22	1.72	0.72
1:cg:100:LYS:HG2	1:lp:100:LYS:HE3	1.71	0.72
1:ch:99:LEU:CG	1:jf:60:ARG:NE	2.53	0.72
1:ci:63:VAL:HG23	1:ci:99:LEU:HD12	1.70	0.72
2:cn:106:MET:HG3	2:cn:184:TYR:HD1	1.54	0.72
2:cp:282:ARG:NH1	2:cp:286:GLY:O	2.22	0.72
1:cI:100:LYS:HG2	1:pF:100:LYS:HE3	1.71	0.72
2:cT:197:LYS:HE3	2:pL:62:GLN:HG3	1.67	0.72
2:dh:174:ASP:OD1	2:dh:214:ARG:NH2	2.22	0.72
1:do:100:LYS:HE3	1:ki:100:LYS:CB	2.19	0.72
2:dv:12:LEU:HD11	2:ks:94:ASP:HB2	1.70	0.72
1:dA:63:VAL:HG23	1:dA:99:LEU:HD12	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dJ:171:TYR:HH	2:dJ:175:THR:HG1	1.37	0.72
2:dX:94:ASP:HB2	2:jR:12:LEU:HD11	1.70	0.72
1:eb:99:LEU:CD1	1:ft:60:ARG:NH1	2.25	0.72
1:eq:63:VAL:HG23	1:eq:99:LEU:HD12	1.70	0.72
2:ew:105:GLU:OE2	2:ew:108:ARG:NH1	2.22	0.72
2:eA:262:ASN:HA	2:eA:295:VAL:HG22	1.71	0.72
2:eX:106:MET:HG3	2:eX:184:TYR:HD1	1.54	0.72
2:fB:282:ARG:NH1	2:fB:286:GLY:O	2.22	0.72
2:fO:268:THR:OG1	2:fQ:248:ASN:OD1	2.07	0.72
2:gD:106:MET:HG3	2:gD:184:TYR:HD1	1.54	0.72
2:gE:105:GLU:OE2	2:gE:108:ARG:NH1	2.22	0.72
2:gH:94:ASP:HB2	2:pk:12:LEU:HD11	1.70	0.72
1:gO:99:LEU:HD21	1:ic:60:ARG:CD	2.18	0.72
2:gS:105:GLU:OE2	2:gS:108:ARG:NH1	2.22	0.72
1:gZ:99:LEU:CG	1:mq:60:ARG:NE	2.53	0.72
2:jb:174:ASP:OD1	2:jb:214:ARG:NH2	2.22	0.72
2:jc:262:ASN:HA	2:jc:295:VAL:HG22	1.72	0.72
1:jr:100:LYS:CD	1:lq:100:LYS:HZ3	2.03	0.72
1:jr:102:GLU:OE2	1:lq:99:LEU:HG	1.74	0.72
1:jw:100:LYS:HE3	1:lz:100:LYS:CB	2.19	0.72
2:jD:94:ASP:HB2	2:lK:12:LEU:HD11	1.70	0.72
1:kj:95:SER:OG	1:kj:96:ASP:OD1	2.07	0.72
2:lu:282:ARG:NH1	2:lu:286:GLY:O	2.22	0.72
2:lW:282:ARG:NH1	2:lW:286:GLY:O	2.22	0.72
2:mL:105:GLU:OE2	2:mL:108:ARG:NH1	2.22	0.72
2:nm:225:GLN:O	2:nm:238:ASN:ND2	2.22	0.72
2:nC:282:ARG:NH1	2:nC:286:GLY:O	2.22	0.72
2:oG:282:ARG:NH1	2:oG:286:GLY:O	2.22	0.72
2:pL:294:LEU:HD23	2:pL:295:VAL:HG23	1.71	0.72
3:qh:66:GLN:O	4:qj:10:GLN:NE2	2.22	0.72
5:qD:96:ARG:CD	5:qF:114:LEU:HD23	2.11	0.72
2:aj:248:ASN:OD1	2:ak:268:THR:OG1	2.07	0.72
1:at:69:ALA:HB1	6:qs:61:ALA:HB1	1.71	0.72
1:aB:99:LEU:CD1	1:mV:102:GLU:CD	2.60	0.72
1:bq:59:VAL:HG12	1:bq:61:ALA:H	1.53	0.72
2:bN:282:ARG:NH1	2:bN:286:GLY:O	2.22	0.72
2:ca:268:THR:OG1	2:cc:248:ASN:OD1	2.07	0.72
2:cd:18:LYS:HE2	2:cd:96:LEU:HD13	1.72	0.72
2:cn:225:GLN:O	2:cn:238:ASN:ND2	2.22	0.72
1:cy:99:LEU:HD21	1:pb:60:ARG:CD	2.18	0.72
1:dl:60:ARG:NE	1:hN:99:LEU:CG	2.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ds:105:GLU:OE2	2:ds:108:ARG:NH1	2.22	0.72
2:dK:83:THR:OG1	2:dK:204:PHE:O	2.03	0.72
1:dM:99:LEU:CD1	1:jK:102:GLU:CD	2.60	0.72
2:ew:268:THR:OG1	2:ey:248:ASN:OD1	2.07	0.72
2:ez:12:LEU:HD11	2:og:94:ASP:HB2	1.70	0.72
1:fK:100:LYS:HE3	1:kv:100:LYS:HG2	1.71	0.72
2:gq:105:GLU:OE2	2:gq:108:ARG:NH1	2.22	0.72
2:gD:225:GLN:O	2:gD:238:ASN:ND2	2.22	0.72
2:gH:18:LYS:HE2	2:gH:96:LEU:HD13	1.72	0.72
1:gM:63:VAL:HG23	1:gM:99:LEU:HD12	1.70	0.72
2:hf:106:MET:HG3	2:hf:184:TYR:HD1	1.54	0.72
2:hh:248:ASN:OD1	2:hi:268:THR:OG1	2.07	0.72
2:hu:248:ASN:OD1	2:hv:268:THR:OG1	2.07	0.72
2:hJ:94:ASP:HB2	2:kU:12:LEU:HD11	1.70	0.72
2:hU:268:THR:OG1	2:hW:248:ASN:OD1	2.07	0.72
1:ia:100:LYS:HG2	1:nx:100:LYS:HE3	1.71	0.72
2:ik:294:LEU:HD23	2:ik:295:VAL:HG23	1.71	0.72
2:iJ:225:GLN:O	2:iJ:238:ASN:ND2	2.22	0.72
1:jg:105:THR:HG23	2:lt:60:ILE:HG22	1.69	0.72
2:jk:88:ARG:NH2	2:jk:200:ASP:OD1	2.23	0.72
1:jF:59:VAL:HG12	1:jF:61:ALA:H	1.53	0.72
2:kf:94:ASP:HB2	2:qa:12:LEU:HD11	1.70	0.72
1:kw:95:SER:OG	1:kw:96:ASP:OD1	2.07	0.72
2:lf:268:THR:OG1	2:lh:248:ASN:OD1	2.07	0.72
2:li:12:LEU:HD11	2:nq:94:ASP:HB2	1.70	0.72
2:IH:60:ILE:HG22	1:mT:105:THR:HG23	1.69	0.72
1:mc:99:LEU:CG	1:nu:60:ARG:NE	2.53	0.72
1:md:105:THR:CG2	2:mx:60:ILE:CG2	2.62	0.72
2:mi:106:MET:HG3	2:mi:184:TYR:HD1	1.54	0.72
2:mM:248:ASN:OD1	2:mN:268:THR:OG1	2.07	0.72
1:nI:95:SER:OG	1:nI:96:ASP:OD1	2.07	0.72
2:or:105:GLU:OE2	2:or:108:ARG:NH1	2.22	0.72
2:oF:105:GLU:OE2	2:oF:108:ARG:NH1	2.22	0.72
2:pv:268:THR:OG1	2:px:248:ASN:OD1	2.07	0.72
2:pW:225:GLN:O	2:pW:238:ASN:ND2	2.22	0.72
2:qb:262:ASN:HA	2:qb:295:VAL:HG22	1.71	0.72
3:qe:141:LEU:HD23	3:qe:143:PHE:CE2	2.24	0.72
3:qf:67:ARG:H	4:ql:194:LEU:CD1	1.70	0.72
3:qg:141:LEU:HD23	3:qg:143:PHE:CE2	2.24	0.72
5:qr:248:LYS:NZ	6:qu:121:VAL:HG11	2.05	0.72
2:aw:205:MET:HE1	2:ds:196:THR:HG23	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:az:262:ASN:HA	2:az:295:VAL:HG22	1.72	0.72
1:aF:100:LYS:HE3	1:mR:100:LYS:CB	2.19	0.72
2:ba:12:LEU:HD11	2:py:94:ASP:HB2	1.70	0.72
2:ba:94:ASP:HB2	2:py:12:LEU:HD11	1.70	0.72
2:bj:88:ARG:NH2	2:bj:200:ASP:OD1	2.23	0.72
2:bl:268:THR:OG1	2:bn:248:ASN:OD1	2.07	0.72
2:bA:248:ASN:OD1	2:bB:268:THR:OG1	2.07	0.72
1:bG:60:ARG:NE	1:gj:99:LEU:CG	2.53	0.72
1:bU:63:VAL:HG23	1:bU:99:LEU:HD12	1.70	0.72
1:bW:102:GLU:CD	1:hM:99:LEU:CD1	2.60	0.72
1:ci:60:ARG:CD	1:pr:99:LEU:HD21	2.18	0.72
1:cy:100:LYS:HE3	1:nH:100:LYS:HG2	1.71	0.72
2:cC:105:GLU:OE2	2:cC:108:ARG:NH1	2.22	0.72
1:cI:100:LYS:CB	1:pF:100:LYS:HE3	2.19	0.72
2:cP:225:GLN:O	2:cP:238:ASN:ND2	2.22	0.72
2:dh:94:ASP:HB2	2:fp:12:LEU:HD11	1.70	0.72
1:do:100:LYS:HE3	1:ki:100:LYS:HG2	1.71	0.72
1:dA:105:THR:HG23	2:ph:60:ILE:HG22	1.69	0.72
2:dG:268:THR:OG1	2:dI:248:ASN:OD1	2.07	0.72
2:dJ:18:LYS:HE2	2:dJ:96:LEU:HD13	1.72	0.72
1:dN:99:LEU:CG	1:pC:60:ARG:NE	2.53	0.72
2:dV:248:ASN:OD1	2:dW:268:THR:OG1	2.07	0.72
2:eg:88:ARG:NH2	2:eg:200:ASP:OD1	2.23	0.72
2:ev:106:MET:HG3	2:ev:184:TYR:HD1	1.54	0.72
2:eJ:225:GLN:O	2:eJ:238:ASN:ND2	2.22	0.72
1:fd:59:VAL:HG12	1:fd:61:ALA:H	1.53	0.72
2:fq:262:ASN:HA	2:fq:295:VAL:HG22	1.71	0.72
2:fA:268:THR:OG1	2:fC:248:ASN:OD1	2.07	0.72
1:gh:105:THR:HG21	2:ih:60:ILE:HG13	1.69	0.72
1:gj:60:ARG:NE	1:gL:99:LEU:CG	2.53	0.72
1:gk:63:VAL:HG23	1:gk:99:LEU:HD12	1.70	0.72
2:gu:262:ASN:HA	2:gu:295:VAL:HG22	1.72	0.72
2:gW:262:ASN:HA	2:gW:295:VAL:HG22	1.71	0.72
2:hf:225:GLN:O	2:hf:238:ASN:ND2	2.22	0.72
2:hF:88:ARG:NH2	2:hF:200:ASP:OD1	2.23	0.72
2:hK:182:LEU:O	5:qt:178:PRO:CB	2.25	0.72
1:ip:60:ARG:NH1	1:lm:99:LEU:CD1	2.25	0.72
1:js:100:LYS:CB	1:ID:100:LYS:HE3	2.19	0.72
2:jB:248:ASN:OD1	2:jC:268:THR:OG1	2.07	0.72
2:jM:88:ARG:NH2	2:jM:200:ASP:OD1	2.23	0.72
2:jO:60:ILE:CG2	1:pD:105:THR:CG2	2.62	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jS:262:ASN:HA	2:jS:295:VAL:HG22	1.71	0.72
1:jY:99:LEU:HD21	1:ln:60:ARG:CD	2.18	0.72
2:kf:197:LYS:HE3	2:pZ:62:GLN:HG3	1.67	0.72
2:kr:294:LEU:HD23	2:kr:295:VAL:HG23	1.71	0.72
2:kE:248:ASN:OD1	2:kF:268:THR:OG1	2.07	0.72
1:kL:63:VAL:HG23	1:kL:99:LEU:HD12	1.70	0.72
2:lG:106:MET:HG3	2:lG:184:TYR:HD1	1.54	0.72
1:lP:63:VAL:HG23	1:lP:99:LEU:HD12	1.70	0.72
2:lV:105:GLU:OE2	2:lV:108:ARG:NH1	2.22	0.72
2:mh:88:ARG:NH2	2:mh:200:ASP:OD1	2.23	0.72
2:mk:248:ASN:OD1	2:ml:268:THR:OG1	2.07	0.72
2:mX:88:ARG:NH2	2:mX:200:ASP:OD1	2.23	0.72
2:nr:262:ASN:HA	2:nr:295:VAL:HG22	1.71	0.72
1:nJ:63:VAL:HG23	1:nJ:99:LEU:HD12	1.70	0.72
2:od:105:GLU:OE2	2:od:108:ARG:NH1	2.22	0.72
2:oU:174:ASP:OD1	2:oU:214:ARG:NH2	2.23	0.72
2:oX:262:ASN:HA	2:oX:295:VAL:HG22	1.71	0.72
2:pf:88:ARG:NH2	2:pf:200:ASP:OD1	2.23	0.72
2:ph:105:GLU:OE2	2:ph:108:ARG:NH1	2.22	0.72
2:px:294:LEU:HD23	2:px:295:VAL:HG23	1.71	0.72
2:pJ:268:THR:OG1	2:pL:248:ASN:OD1	2.07	0.72
2:pY:83:THR:OG1	2:pY:205:MET:SD	2.42	0.72
3:qi:66:GLN:CA	4:qo:10:GLN:HG2	2.18	0.72
2:au:88:ARG:NH2	2:au:200:ASP:OD1	2.23	0.72
2:au:188:MET:SD	5:qL:178:PRO:HB3	2.30	0.72
2:az:103:MET:CE	5:qJ:32:PHE:CG	2.41	0.72
2:aH:88:ARG:NH2	2:aH:200:ASP:OD1	2.23	0.72
2:aJ:268:THR:OG1	2:aL:248:ASN:OD1	2.07	0.72
2:aK:174:ASP:OD1	2:aK:214:ARG:NH2	2.23	0.72
2:aX:105:GLU:OE2	2:aX:108:ARG:NH1	2.22	0.72
1:bh:100:LYS:HE3	1:je:100:LYS:CB	2.19	0.72
2:bm:248:ASN:OD1	2:bn:268:THR:OG1	2.07	0.72
1:cz:100:LYS:NZ	1:pm:100:LYS:CG	2.40	0.72
2:cQ:105:GLU:OE2	2:cQ:108:ARG:NH1	2.22	0.72
1:da:100:LYS:HE3	1:fe:100:LYS:CB	2.19	0.72
2:df:248:ASN:OD1	2:dg:268:THR:OG1	2.07	0.72
2:dr:225:GLN:O	2:dr:238:ASN:ND2	2.22	0.72
2:dU:105:GLU:OE2	2:dU:108:ARG:NH1	2.22	0.72
1:eo:99:LEU:CD1	1:nZ:102:GLU:CD	2.60	0.72
1:es:102:GLU:CD	1:nV:99:LEU:CD1	2.60	0.72
2:eu:88:ARG:NH2	2:eu:200:ASP:OD1	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fj:100:LYS:HZ1	1:gJ:100:LYS:HG2	1.54	0.72
2:fm:63:ARG:NE	2:fp:205:MET:SD	2.57	0.72
1:fu:63:VAL:HG23	1:fu:99:LEU:HD12	1.70	0.72
2:fz:106:MET:HG3	2:fz:184:TYR:HD1	1.54	0.72
1:fl:100:LYS:N	2:mx:197:LYS:NZ	2.36	0.72
2:gf:18:LYS:HE2	2:gf:96:LEU:HD13	1.72	0.72
1:ha:63:VAL:HG23	1:ha:99:LEU:HD12	1.70	0.72
1:ha:105:THR:HG23	2:kD:60:ILE:HG22	1.69	0.72
2:hg:105:GLU:OE2	2:hg:108:ARG:NH1	2.22	0.72
2:hs:170:TRP:N	5:qz:178:PRO:HG2	2.03	0.72
1:ie:100:LYS:HE3	1:nt:100:LYS:HG2	1.71	0.72
2:ij:248:ASN:OD1	2:ik:268:THR:OG1	2.07	0.72
1:iq:100:LYS:N	2:lt:197:LYS:NZ	2.36	0.72
2:iw:105:GLU:OE2	2:iw:108:ARG:NH1	2.22	0.72
2:iN:174:ASP:OD1	2:iN:214:ARG:NH2	2.22	0.72
1:iS:63:VAL:HG23	1:iS:99:LEU:HD12	1.70	0.72
2:iY:268:THR:OG1	2:ja:248:ASN:OD1	2.07	0.72
1:jg:60:ARG:CD	1:lp:99:LEU:HD21	2.18	0.72
1:jx:101:VAL:CG1	2:le:198:GLU:CD	2.58	0.72
2:jA:60:ILE:HG22	1:kZ:105:THR:HG23	1.69	0.72
1:jF:100:LYS:HG2	1:pU:100:LYS:HZ1	1.54	0.72
2:jP:174:ASP:OD1	2:jP:214:ARG:NH2	2.23	0.72
1:jY:100:LYS:HE3	1:pP:100:LYS:CB	2.19	0.72
2:ka:88:ARG:NH2	2:ka:200:ASP:OD1	2.23	0.72
2:kD:197:LYS:HZ2	1:lP:99:LEU:C	1.98	0.72
2:kP:88:ARG:NH2	2:kP:200:ASP:OD1	2.23	0.72
2:kT:294:LEU:HD23	2:kT:295:VAL:HG23	1.71	0.72
2:ld:88:ARG:NH2	2:ld:200:ASP:OD1	2.23	0.72
2:lF:88:ARG:NH2	2:lF:200:ASP:OD1	2.23	0.72
1:mc:95:SER:OG	1:mc:96:ASP:OD1	2.07	0.72
2:mw:225:GLN:O	2:mw:238:ASN:ND2	2.22	0.72
2:mA:18:LYS:HE2	2:mA:96:LEU:HD13	1.72	0.72
2:mP:262:ASN:HA	2:mP:295:VAL:HG22	1.71	0.72
2:mY:106:MET:HG3	2:mY:184:TYR:HD1	1.54	0.72
2:nc:18:LYS:HE2	2:nc:96:LEU:HD13	1.72	0.72
2:nN:88:ARG:NH2	2:nN:200:ASP:OD1	2.23	0.72
1:ok:60:ARG:NE	1:oM:99:LEU:CG	2.53	0.72
2:oq:106:MET:HG3	2:oq:184:TYR:HD1	1.54	0.72
2:os:282:ARG:NH1	2:os:286:GLY:O	2.22	0.72
2:ov:262:ASN:HA	2:ov:295:VAL:HG22	1.71	0.72
2:pt:88:ARG:NH2	2:pt:200:ASP:OD1	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pI:225:GLN:O	2:pI:238:ASN:ND2	2.22	0.72
1:pO:59:VAL:HG12	1:pO:61:ALA:H	1.54	0.72
3:qe:68:ALA:HB1	4:ql:222:GLY:C	2.11	0.72
4:qj:222:GLY:C	4:qk:8:TYR:HH	1.95	0.72
6:qs:112:LEU:HD21	6:qu:58:LEU:CB	2.20	0.72
5:qB:248:LYS:NZ	6:qE:121:VAL:HG11	2.05	0.72
1:ap:99:LEU:CG	1:hN:60:ARG:NE	2.53	0.72
2:aw:174:ASP:OD1	2:aw:214:ARG:NH2	2.23	0.72
2:aV:88:ARG:NH2	2:aV:200:ASP:OD1	2.23	0.72
2:aX:268:THR:OG1	2:aZ:248:ASN:OD1	2.07	0.72
2:bm:205:MET:HE1	2:kp:196:THR:HG23	1.72	0.72
2:bo:171:TYR:HH	2:bo:175:THR:HG1	1.36	0.72
2:bA:174:ASP:OD1	2:bA:214:ARG:NH2	2.23	0.72
2:bC:12:LEU:HD11	2:dJ:94:ASP:HB2	1.70	0.72
1:bW:99:LEU:HD21	1:dm:60:ARG:CD	2.18	0.72
2:bY:88:ARG:NH2	2:bY:200:ASP:OD1	2.23	0.72
1:cJ:99:LEU:CG	1:po:60:ARG:NE	2.53	0.72
2:cT:18:LYS:HE2	2:cT:96:LEU:HD13	1.72	0.72
1:cW:100:LYS:CB	1:fi:100:LYS:HE3	2.19	0.72
1:cX:99:LEU:CG	1:gx:60:ARG:NE	2.53	0.72
1:dj:59:VAL:HG12	1:dj:61:ALA:H	1.53	0.72
2:dr:106:MET:HG3	2:dr:184:TYR:HD1	1.54	0.72
1:dA:99:LEU:C	2:gE:197:LYS:HZ2	1.97	0.72
2:dF:225:GLN:O	2:dF:238:ASN:ND2	2.22	0.72
1:dM:100:LYS:HG2	1:jK:100:LYS:HE3	1.71	0.72
2:dU:196:THR:HG23	2:pK:205:MET:HE1	1.72	0.72
2:dV:282:ARG:NH1	2:dV:286:GLY:O	2.22	0.72
2:eJ:106:MET:HG3	2:eJ:184:TYR:HD1	1.54	0.72
2:eL:282:ARG:NH1	2:eL:286:GLY:O	2.22	0.72
2:eZ:248:ASN:OD1	2:fa:268:THR:OG1	2.07	0.72
1:ff:60:ARG:NE	1:ib:99:LEU:CG	2.53	0.72
2:fM:88:ARG:NH2	2:fM:200:ASP:OD1	2.23	0.72
2:fP:248:ASN:OD1	2:fQ:268:THR:OG1	2.07	0.72
1:fV:60:ARG:NE	1:nu:99:LEU:CG	2.53	0.72
2:gc:105:GLU:OE2	2:gc:108:ARG:NH1	2.22	0.72
2:gr:174:ASP:OD1	2:gr:214:ARG:NH2	2.23	0.72
2:gt:174:ASP:OD1	2:gt:214:ARG:NH2	2.22	0.72
2:gC:88:ARG:NH2	2:gC:200:ASP:OD1	2.23	0.72
2:gF:174:ASP:OD1	2:gF:214:ARG:NH2	2.23	0.72
2:gT:174:ASP:OD1	2:gT:214:ARG:NH2	2.23	0.72
2:he:88:ARG:NH2	2:he:200:ASP:OD1	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hh:174:ASP:OD1	2:hh:214:ARG:NH2	2.23	0.72
2:hj:18:LYS:HE2	2:hj:96:LEU:HD13	1.72	0.72
2:hs:184:TYR:HE1	5:qB:178:PRO:CA	2.02	0.72
2:hw:171:TYR:HH	2:hw:175:THR:HG1	1.35	0.72
2:hx:83:THR:OG1	2:hx:204:PHE:O	2.03	0.72
2:il:18:LYS:HE2	2:il:96:LEU:HD13	1.72	0.72
2:im:262:ASN:HA	2:im:295:VAL:HG22	1.72	0.72
2:iL:282:ARG:NH1	2:iL:286:GLY:O	2.22	0.72
2:iO:262:ASN:HA	2:iO:295:VAL:HG22	1.72	0.72
2:jm:105:GLU:OE2	2:jm:108:ARG:NH1	2.22	0.72
1:jw:100:LYS:HE3	1:lz:100:LYS:HG2	1.71	0.72
2:jz:225:GLN:O	2:jz:238:ASN:ND2	2.22	0.72
2:jA:60:ILE:HG22	1:kZ:105:THR:HG21	1.57	0.72
2:jE:262:ASN:HA	2:jE:295:VAL:HG22	1.72	0.72
2:jN:225:GLN:O	2:jN:238:ASN:ND2	2.22	0.72
2:kE:174:ASP:OD1	2:kE:214:ARG:NH2	2.23	0.72
1:ln:63:VAL:HG23	1:ln:99:LEU:HD12	1.70	0.72
2:lH:105:GLU:OE2	2:lH:108:ARG:NH1	2.22	0.72
1:mF:63:VAL:HG23	1:mF:99:LEU:HD12	1.70	0.72
2:mL:60:ILE:CG2	1:ol:105:THR:CG2	2.62	0.72
2:mM:174:ASP:OD1	2:mM:214:ARG:NH2	2.23	0.72
1:mS:95:SER:OG	1:mS:96:ASP:OD1	2.07	0.72
1:ng:95:SER:OG	1:ng:96:ASP:OD1	2.07	0.72
2:nE:18:LYS:HE2	2:nE:96:LEU:HD13	1.72	0.72
2:or:60:ILE:HG22	1:pR:105:THR:HG23	1.69	0.72
2:oD:88:ARG:NH2	2:oD:200:ASP:OD1	2.23	0.72
2:oE:106:MET:HG3	2:oE:184:TYR:HD1	1.54	0.72
2:oS:225:GLN:O	2:oS:238:ASN:ND2	2.22	0.72
2:ph:268:THR:OG1	2:pj:248:ASN:OD1	2.07	0.72
2:pu:106:MET:HG3	2:pu:184:TYR:HD1	1.54	0.72
2:pw:174:ASP:OD1	2:pw:214:ARG:NH2	2.23	0.72
5:qt:248:LYS:NZ	6:qw:121:VAL:HG11	2.05	0.72
5:qv:248:LYS:NZ	6:qy:121:VAL:HG11	2.05	0.72
5:qx:53:GLU:OE2	5:qz:35:HIS:HE1	1.66	0.72
6:qC:112:LEU:HD21	6:qE:58:LEU:CB	2.20	0.72
5:qF:105:ASP:OD1	5:qF:355:ARG:NH1	2.23	0.72
5:qH:105:ASP:OD1	5:qH:355:ARG:NH1	2.23	0.72
2:ah:225:GLN:O	2:ah:238:ASN:ND2	2.22	0.71
2:av:196:THR:HG23	2:hV:205:MET:HE1	1.72	0.71
1:aG:100:LYS:HZ1	1:kh:100:LYS:CD	2.03	0.71
1:bd:100:LYS:HG2	1:ji:100:LYS:HE3	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bk:225:GLN:O	2:bk:238:ASN:ND2	2.22	0.71
2:by:225:GLN:O	2:by:238:ASN:ND2	2.22	0.71
2:bz:196:THR:HG23	2:eZ:205:MET:HE1	1.72	0.71
2:bL:88:ARG:NH2	2:bL:200:ASP:OD1	2.23	0.71
2:cP:106:MET:HG3	2:cP:184:TYR:HD1	1.54	0.71
2:di:262:ASN:HA	2:di:295:VAL:HG22	1.71	0.71
1:eb:99:LEU:CG	1:ft:60:ARG:NE	2.53	0.71
2:eI:88:ARG:NH2	2:eI:200:ASP:OD1	2.23	0.71
2:eL:174:ASP:OD1	2:eL:214:ARG:NH2	2.23	0.71
2:fk:88:ARG:NH2	2:fk:200:ASP:OD1	2.23	0.71
1:fx:101:VAL:CG1	2:nm:198:GLU:CD	2.58	0.71
1:fV:95:SER:OG	1:fV:96:ASP:OD1	2.07	0.71
1:fY:100:LYS:HE3	1:mp:100:LYS:CB	2.19	0.71
2:gg:262:ASN:HA	2:gg:295:VAL:HG22	1.72	0.71
2:gQ:88:ARG:NH2	2:gQ:200:ASP:OD1	2.23	0.71
1:ho:105:THR:HG23	2:hG:60:ILE:HG22	1.69	0.71
2:hu:205:MET:HE1	2:kR:196:THR:HG23	1.72	0.71
1:hz:100:LYS:HG2	1:kN:100:LYS:HE3	1.71	0.71
2:hI:294:LEU:HD23	2:hI:295:VAL:HG23	1.71	0.71
2:hY:262:ASN:HA	2:hY:295:VAL:HG22	1.71	0.71
2:ig:88:ARG:NH2	2:ig:200:ASP:OD1	2.23	0.71
2:iK:105:GLU:OE2	2:iK:108:ARG:NH1	2.22	0.71
2:iW:88:ARG:NH2	2:iW:200:ASP:OD1	2.23	0.71
2:ja:294:LEU:HD23	2:ja:295:VAL:HG23	1.71	0.71
2:jp:18:LYS:HE2	2:jp:96:LEU:HD13	1.72	0.71
1:jt:99:LEU:CD1	1:mS:60:ARG:NH1	2.25	0.71
2:jO:196:THR:HG23	2:oU:205:MET:HE1	1.72	0.71
2:jS:83:THR:OG1	2:jS:204:PHE:O	2.03	0.71
1:jY:102:GLU:CD	1:pP:99:LEU:CD1	2.60	0.71
2:kq:248:ASN:OD1	2:kr:268:THR:OG1	2.07	0.71
2:lf:196:THR:HG23	2:oG:205:MET:HE1	1.72	0.71
2:lr:88:ARG:NH2	2:lr:200:ASP:OD1	2.23	0.71
2:ls:106:MET:HG3	2:ls:184:TYR:HD1	1.54	0.71
2:lX:294:LEU:HD23	2:lX:295:VAL:HG23	1.71	0.71
1:md:63:VAL:HG23	1:md:99:LEU:HD12	1.70	0.71
2:mK:106:MET:HG3	2:mK:184:TYR:HD1	1.54	0.71
2:mK:225:GLN:O	2:mK:238:ASN:ND2	2.22	0.71
2:mM:205:MET:HE1	2:nn:196:THR:HG23	1.72	0.71
2:nz:88:ARG:NH2	2:nz:200:ASP:OD1	2.23	0.71
2:nC:174:ASP:OD1	2:nC:214:ARG:NH2	2.23	0.71
2:oe:174:ASP:OD1	2:oe:214:ARG:NH2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:op:88:ARG:NH2	2:op:200:ASP:OD1	2.23	0.71
1:oN:63:VAL:HG23	1:oN:99:LEU:HD12	1.70	0.71
2:oS:52:GLN:OE1	2:oS:52:GLN:N	2.23	0.71
1:pp:105:THR:CG2	2:pJ:60:ILE:CG2	2.62	0.71
1:qc:59:VAL:HG12	1:qc:61:ALA:H	1.53	0.71
3:qg:67:ARG:HB3	4:qk:194:LEU:HD13	1.71	0.71
4:qj:206:TYR:CE1	4:qo:177:MET:HE1	2.22	0.71
5:qp:248:LYS:NZ	6:qs:121:VAL:HG11	2.05	0.71
5:qp:405:ILE:HG23	5:qL:394:ILE:HD11	1.68	0.71
5:qD:248:LYS:NZ	6:qG:121:VAL:HG11	2.05	0.71
2:ai:196:THR:HG23	2:no:205:MET:HE1	1.72	0.71
2:aM:12:LEU:HD11	2:nc:94:ASP:HB2	1.70	0.71
1:aR:105:THR:CG2	2:bl:60:ILE:CG2	2.62	0.71
2:bD:262:ASN:HA	2:bD:295:VAL:HG22	1.72	0.71
2:bM:196:THR:HG23	2:gT:205:MET:HE1	1.72	0.71
2:bN:205:MET:HE1	2:gq:196:THR:HG23	1.72	0.71
2:cs:262:ASN:HA	2:cs:295:VAL:HG22	1.72	0.71
2:cE:294:LEU:HD23	2:cE:295:VAL:HG23	1.71	0.71
2:cP:198:GLU:CD	1:eV:101:VAL:CG1	2.58	0.71
2:cR:174:ASP:OD1	2:cR:214:ARG:NH2	2.23	0.71
1:dR:100:LYS:HZ3	1:oY:100:LYS:CG	1.90	0.71
2:dT:52:GLN:N	2:dT:52:GLN:OE1	2.23	0.71
1:eb:99:LEU:CD1	1:ft:60:ARG:CD	2.44	0.71
2:eh:198:GLU:CD	1:et:101:VAL:CG1	2.58	0.71
2:ev:52:GLN:N	2:ev:52:GLN:OE1	2.23	0.71
2:ex:248:ASN:OD1	2:ey:268:THR:OG1	2.07	0.71
2:fa:294:LEU:HD23	2:fa:295:VAL:HG23	1.71	0.71
1:fi:99:LEU:HD21	1:gy:60:ARG:CD	2.18	0.71
2:fl:225:GLN:O	2:fl:238:ASN:ND2	2.22	0.71
2:fy:88:ARG:NH2	2:fy:200:ASP:OD1	2.23	0.71
1:fF:102:GLU:OE2	1:mg:99:LEU:HG	1.74	0.71
2:gp:225:GLN:O	2:gp:238:ASN:ND2	2.22	0.71
2:hi:294:LEU:HD23	2:hi:295:VAL:HG23	1.71	0.71
2:hF:32:LEU:HD13	5:qv:178:PRO:N	1.85	0.71
2:ij:174:ASP:OD1	2:ij:214:ARG:NH2	2.23	0.71
2:iL:174:ASP:OD1	2:iL:214:ARG:NH2	2.23	0.71
2:iY:196:THR:HG23	2:kq:205:MET:HE1	1.72	0.71
2:jm:268:THR:OG1	2:jo:248:ASN:OD1	2.07	0.71
2:jn:174:ASP:OD1	2:jn:214:ARG:NH2	2.23	0.71
1:ju:99:LEU:CA	2:kc:197:LYS:HZ1	2.02	0.71
2:jB:205:MET:HE1	2:kc:196:THR:HG23	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jO:191:SER:OG	2:oU:186:GLU:O	2.08	0.71
2:kp:105:GLU:OE2	2:kp:108:ARG:NH1	2.22	0.71
2:le:52:GLN:N	2:le:52:GLN:OE1	2.24	0.71
2:lu:205:MET:HE1	2:pX:196:THR:HG23	1.72	0.71
1:lA:60:ARG:NE	1:oy:99:LEU:CG	2.53	0.71
1:lB:63:VAL:HG23	1:lB:99:LEU:HD12	1.70	0.71
1:lD:99:LEU:HD21	1:mT:60:ARG:CD	2.18	0.71
2:lH:60:ILE:CG2	1:mT:105:THR:CG2	2.62	0.71
2:lJ:294:LEU:HD23	2:lJ:295:VAL:HG23	1.71	0.71
2:mJ:88:ARG:NH2	2:mJ:200:ASP:OD1	2.23	0.71
2:nm:52:GLN:N	2:nm:52:GLN:OE1	2.23	0.71
1:nv:63:VAL:HG23	1:nv:99:LEU:HD12	1.70	0.71
2:oE:225:GLN:O	2:oE:238:ASN:ND2	2.22	0.71
2:oT:105:GLU:OE2	2:oT:108:ARG:NH1	2.22	0.71
2:pH:88:ARG:NH2	2:pH:200:ASP:OD1	2.23	0.71
2:pJ:105:GLU:OE2	2:pJ:108:ARG:NH1	2.22	0.71
6:qy:112:LEU:HD21	6:qA:58:LEU:CB	2.20	0.71
5:qz:252:LEU:HD22	6:qC:126:GLN:HG3	1.69	0.71
6:qA:112:LEU:HD21	6:qC:58:LEU:CB	2.20	0.71
1:aF:99:LEU:HD21	1:jW:60:ARG:CD	2.18	0.71
1:aP:99:LEU:CD1	1:pr:102:GLU:CD	2.60	0.71
2:aY:248:ASN:OD1	2:aZ:268:THR:OG1	2.07	0.71
2:aZ:294:LEU:HD23	2:aZ:295:VAL:HG23	1.71	0.71
1:be:99:LEU:CG	1:iR:60:ARG:NE	2.53	0.71
2:bl:197:LYS:HZ2	1:iS:99:LEU:C	1.97	0.71
1:br:99:LEU:CD1	1:dC:102:GLU:CD	2.60	0.71
1:bU:105:THR:HG23	2:iK:60:ILE:HG22	1.69	0.71
2:co:105:GLU:OE2	2:co:108:ARG:NH1	2.22	0.71
2:cO:88:ARG:NH2	2:cO:200:ASP:OD1	2.23	0.71
2:de:196:THR:HG23	2:gF:205:MET:HE1	1.72	0.71
2:df:205:MET:HE1	2:dG:196:THR:HG23	1.72	0.71
2:dt:174:ASP:OD1	2:dt:214:ARG:NH2	2.23	0.71
2:ej:174:ASP:OD1	2:ej:214:ARG:NH2	2.23	0.71
1:eq:60:ARG:CD	1:gA:99:LEU:HD21	2.18	0.71
2:eK:196:THR:HG23	2:ij:205:MET:HE1	1.72	0.71
2:eM:294:LEU:HD23	2:eM:295:VAL:HG23	1.71	0.71
2:eO:262:ASN:HA	2:eO:295:VAL:HG22	1.72	0.71
2:eZ:174:ASP:OD1	2:eZ:214:ARG:NH2	2.23	0.71
1:fg:63:VAL:HG23	1:fg:99:LEU:HD12	1.70	0.71
2:fl:106:MET:HG3	2:fl:184:TYR:HD1	1.54	0.71
1:fG:99:LEU:CD1	1:kz:102:GLU:CD	2.60	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gd:174:ASP:OD1	2:gd:214:ARG:NH2	2.23	0.71
1:gA:100:LYS:HE3	1:oZ:100:LYS:HG2	1.71	0.71
2:gH:12:LEU:HD11	2:pk:94:ASP:HB2	1.70	0.71
1:hq:99:LEU:HD21	1:kk:60:ARG:CD	2.18	0.71
2:hH:174:ASP:OD1	2:hH:214:ARG:NH2	2.23	0.71
2:hH:205:MET:HE1	2:IV:196:THR:HG23	1.72	0.71
1:is:100:LYS:HE3	1:oj:100:LYS:HG2	1.71	0.71
2:iu:88:ARG:NH2	2:iu:200:ASP:OD1	2.23	0.71
2:iz:18:LYS:HE2	2:iz:96:LEU:HD13	1.72	0.71
2:iA:83:THR:OG1	2:iA:204:PHE:O	2.03	0.71
2:iJ:106:MET:HG3	2:iJ:184:TYR:HD1	1.54	0.71
2:kb:225:GLN:O	2:kb:238:ASN:ND2	2.22	0.71
2:kH:83:THR:OG1	2:kH:204:PHE:O	2.03	0.71
2:kR:268:THR:OG1	2:kT:248:ASN:OD1	2.07	0.71
2:li:197:LYS:HE3	2:np:62:GLN:HG3	1.67	0.71
2:lu:174:ASP:OD1	2:lu:214:ARG:NH2	2.23	0.71
2:lu:248:ASN:OD1	2:lv:268:THR:OG1	2.07	0.71
2:mj:196:THR:HG23	2:nC:205:MET:HE1	1.72	0.71
2:ob:88:ARG:NH2	2:ob:200:ASP:OD1	2.23	0.71
1:oo:101:VAL:CG1	2:pW:198:GLU:CD	2.58	0.71
2:os:174:ASP:OD1	2:os:214:ARG:NH2	2.23	0.71
2:pW:52:GLN:N	2:pW:52:GLN:OE1	2.24	0.71
2:qa:18:LYS:HE2	2:qa:96:LEU:HD13	1.72	0.71
3:qf:60:ALA:C	4:ql:33:SER:OG	2.32	0.71
5:qv:105:ASP:OD1	5:qv:355:ARG:NH1	2.23	0.71
5:qB:245:ASP:CG	6:qE:121:VAL:CG2	2.64	0.71
5:qH:53:GLU:OE2	5:qJ:35:HIS:HE1	1.67	0.71
2:ax:294:LEU:HD23	2:ax:295:VAL:HG23	1.71	0.71
1:aG:99:LEU:HG	1:kh:102:GLU:OE2	1.74	0.71
2:aM:243:TYR:OH	2:aM:291:ASN:ND2	2.24	0.71
2:cC:196:THR:HG23	2:dV:205:MET:HE1	1.72	0.71
2:cF:281:GLN:OE1	2:cF:281:GLN:N	2.24	0.71
2:dh:281:GLN:OE1	2:dh:281:GLN:N	2.24	0.71
2:dq:88:ARG:NH2	2:dq:200:ASP:OD1	2.23	0.71
2:dw:262:ASN:HA	2:dw:295:VAL:HG22	1.71	0.71
1:dz:95:SER:OG	1:dz:96:ASP:OD1	2.07	0.71
2:dH:248:ASN:OD1	2:dI:268:THR:OG1	2.07	0.71
2:dY:262:ASN:HA	2:dY:295:VAL:HG22	1.72	0.71
2:ew:196:THR:HG23	2:nQ:205:MET:HE1	1.72	0.71
1:eG:100:LYS:HE3	1:gK:100:LYS:HG2	1.71	0.71
2:eK:105:GLU:OE2	2:eK:108:ARG:NH1	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eN:281:GLN:N	2:eN:281:GLN:OE1	2.24	0.71
2:fm:105:GLU:OE2	2:fm:108:ARG:NH1	2.22	0.71
1:ft:95:SER:OG	1:ft:96:ASP:OD1	2.07	0.71
2:fA:196:THR:HG23	2:oe:205:MET:HE1	1.72	0.71
2:fN:184:TYR:HH	2:fN:204:PHE:HD1	1.38	0.71
2:fP:205:MET:HE1	2:mx:196:THR:HG23	1.72	0.71
1:fU:100:LYS:CB	1:mt:100:LYS:HE3	2.19	0.71
2:gt:243:TYR:OH	2:gt:291:ASN:ND2	2.24	0.71
1:gw:100:LYS:CB	1:pd:100:LYS:HE3	2.19	0.71
2:hg:197:LYS:HZ1	1:mr:99:LEU:CA	2.01	0.71
1:hA:99:LEU:CD1	1:kw:60:ARG:CD	2.44	0.71
2:hG:196:THR:HG23	2:kE:205:MET:HE1	1.72	0.71
2:hV:248:ASN:OD1	2:hW:268:THR:OG1	2.07	0.71
2:ih:52:GLN:OE1	2:ih:52:GLN:N	2.23	0.71
2:ih:106:MET:HG3	2:ih:184:TYR:HD1	1.54	0.71
1:iq:63:VAL:HG23	1:iq:99:LEU:HD12	1.70	0.71
1:jd:59:VAL:HG12	1:jd:61:ALA:H	1.53	0.71
2:jA:60:ILE:CG2	1:kZ:105:THR:CG2	2.62	0.71
2:jP:186:GLU:O	2:or:191:SER:OG	2.08	0.71
2:kd:174:ASP:OD1	2:kd:214:ARG:NH2	2.23	0.71
2:kf:281:GLN:N	2:kf:281:GLN:OE1	2.24	0.71
1:kw:99:LEU:CD1	1:lO:60:ARG:CD	2.44	0.71
2:kB:88:ARG:NH2	2:kB:200:ASP:OD1	2.23	0.71
1:kK:95:SER:OG	1:kK:96:ASP:OD1	2.07	0.71
2:lG:225:GLN:O	2:lG:238:ASN:ND2	2.22	0.71
2:lU:225:GLN:O	2:lU:238:ASN:ND2	2.22	0.71
2:mj:268:THR:OG1	2:ml:248:ASN:OD1	2.07	0.71
2:my:174:ASP:OD1	2:my:214:ARG:NH2	2.23	0.71
2:nn:105:GLU:OE2	2:nn:108:ARG:NH1	2.22	0.71
2:no:174:ASP:OD1	2:no:214:ARG:NH2	2.23	0.71
2:nq:281:GLN:N	2:nq:281:GLN:OE1	2.24	0.71
1:nu:95:SER:OG	1:nu:96:ASP:OD1	2.07	0.71
2:nQ:248:ASN:OD1	2:nR:268:THR:OG1	2.07	0.71
2:pg:225:GLN:O	2:pg:238:ASN:ND2	2.22	0.71
2:pi:248:ASN:OD1	2:pj:268:THR:OG1	2.07	0.71
3:qe:68:ALA:HA	4:qm:8:TYR:OH	1.90	0.71
3:qg:67:ARG:HB3	4:qk:194:LEU:CD1	2.20	0.71
5:qp:245:ASP:CG	6:qs:121:VAL:CG2	2.64	0.71
5:qr:245:ASP:CG	6:qu:121:VAL:CG2	2.64	0.71
5:qD:105:ASP:OD1	5:qD:355:ARG:NH1	2.23	0.71
1:ap:60:ARG:NH2	1:dl:99:LEU:CD1	2.52	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:az:103:MET:HG3	5:qJ:32:PHE:HE2	1.44	0.71
2:aI:52:GLN:N	2:aI:52:GLN:OE1	2.23	0.71
2:aI:225:GLN:O	2:aI:238:ASN:ND2	2.22	0.71
2:aK:205:MET:HE1	2:ht:196:THR:HG23	1.72	0.71
2:aL:294:LEU:HD23	2:aL:295:VAL:HG23	1.71	0.71
2:aN:262:ASN:HA	2:aN:295:VAL:HG22	1.71	0.71
1:aQ:99:LEU:CG	1:ch:60:ARG:NE	2.53	0.71
2:bl:105:GLU:OE2	2:bl:108:ARG:NH1	2.22	0.71
2:cd:243:TYR:OH	2:cd:291:ASN:ND2	2.24	0.71
2:cr:281:GLN:OE1	2:cr:281:GLN:N	2.24	0.71
2:cT:243:TYR:OH	2:cT:291:ASN:ND2	2.24	0.71
2:dd:52:GLN:OE1	2:dd:52:GLN:N	2.24	0.71
2:dd:225:GLN:O	2:dd:238:ASN:ND2	2.22	0.71
2:df:174:ASP:OD1	2:df:214:ARG:NH2	2.23	0.71
1:dA:60:ARG:CD	1:pd:99:LEU:HD21	2.18	0.71
2:ej:205:MET:HE1	2:od:196:THR:HG23	1.72	0.71
2:eL:205:MET:HE1	2:fm:196:THR:HG23	1.72	0.71
1:eU:100:LYS:HE3	1:iC:100:LYS:HG2	1.71	0.71
1:fK:99:LEU:HD21	1:lP:60:ARG:CD	2.18	0.71
2:fN:52:GLN:OE1	2:fN:52:GLN:N	2.23	0.71
1:fV:99:LEU:CG	1:mc:60:ARG:NE	2.53	0.71
1:gm:99:LEU:HA	2:hV:197:LYS:CD	2.13	0.71
2:gr:205:MET:HE1	2:gS:196:THR:HG23	1.72	0.71
2:gt:18:LYS:HE2	2:gt:96:LEU:HD13	1.72	0.71
1:gJ:59:VAL:HG12	1:gJ:61:ALA:H	1.54	0.71
1:hA:60:ARG:NE	1:lO:99:LEU:CG	2.53	0.71
1:hA:99:LEU:CG	1:kw:60:ARG:NE	2.53	0.71
2:hJ:12:LEU:HD11	2:kU:94:ASP:HB2	1.70	0.71
2:hJ:18:LYS:HE2	2:hJ:96:LEU:HD13	1.72	0.71
2:hJ:281:GLN:OE1	2:hJ:281:GLN:N	2.24	0.71
2:hS:88:ARG:NH2	2:hS:200:ASP:OD1	2.23	0.71
2:ih:225:GLN:O	2:ih:238:ASN:ND2	2.22	0.71
2:ij:83:THR:OG1	2:ij:205:MET:SD	2.42	0.71
2:ix:174:ASP:OD1	2:ix:214:ARG:NH2	2.23	0.71
2:iz:281:GLN:N	2:iz:281:GLN:OE1	2.24	0.71
2:jb:281:GLN:OE1	2:jb:281:GLN:N	2.24	0.71
1:js:100:LYS:HG2	1:lD:100:LYS:HE3	1.71	0.71
1:jK:99:LEU:HD21	1:pD:60:ARG:CD	2.18	0.71
2:kf:18:LYS:HE2	2:kf:96:LEU:HD13	1.72	0.71
2:kq:174:ASP:OD1	2:kq:214:ARG:NH2	2.23	0.71
2:kC:225:GLN:O	2:kC:238:ASN:ND2	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:li:281:GLN:N	2:li:281:GLN:OE1	2.24	0.71
2:lK:243:TYR:OH	2:lK:291:ASN:ND2	2.24	0.71
2:IT:88:ARG:NH2	2:IT:200:ASP:OD1	2.23	0.71
2:mA:243:TYR:OH	2:mA:291:ASN:ND2	2.24	0.71
2:mO:243:TYR:OH	2:mO:291:ASN:ND2	2.24	0.71
2:nF:262:ASN:HA	2:nF:295:VAL:HG22	1.72	0.71
2:nP:196:THR:HG23	2:pi:205:MET:HE1	1.72	0.71
2:nS:281:GLN:N	2:nS:281:GLN:OE1	2.24	0.71
2:og:18:LYS:HE2	2:og:96:LEU:HD13	1.72	0.71
2:oh:262:ASN:HA	2:oh:295:VAL:HG22	1.71	0.71
2:oq:52:GLN:N	2:oq:52:GLN:OE1	2.23	0.71
2:os:205:MET:HE1	2:oT:196:THR:HG23	1.72	0.71
2:ol:281:GLN:N	2:ol:281:GLN:OE1	2.24	0.71
2:oV:294:LEU:HD23	2:oV:295:VAL:HG23	1.71	0.71
2:pg:52:GLN:N	2:pg:52:GLN:OE1	2.23	0.71
2:pj:294:LEU:HD23	2:pj:295:VAL:HG23	1.71	0.71
2:pK:248:ASN:OD1	2:pL:268:THR:OG1	2.07	0.71
3:qi:68:ALA:HB2	4:qo:8:TYR:HH	1.55	0.71
5:qp:105:ASP:OD1	5:qp:355:ARG:NH1	2.23	0.71
5:qr:252:LEU:CD2	6:qu:126:GLN:CB	2.58	0.71
5:qz:245:ASP:CG	6:qC:121:VAL:CG2	2.64	0.71
5:qF:53:GLU:OE2	5:qH:35:HIS:HE1	1.66	0.71
5:qF:248:LYS:NZ	6:qI:121:VAL:HG11	2.05	0.71
5:qJ:105:ASP:OD1	5:qJ:355:ARG:NH1	2.23	0.71
6:qK:112:LEU:HD21	6:qM:58:LEU:CB	2.20	0.71
2:ag:88:ARG:NH2	2:ag:200:ASP:OD1	2.23	0.71
1:aF:100:LYS:HE3	1:mR:100:LYS:HG2	1.71	0.71
2:aY:174:ASP:OD1	2:aY:214:ARG:NH2	2.23	0.71
1:bv:102:GLU:CD	1:dy:99:LEU:CD1	2.60	0.71
2:bC:18:LYS:HE2	2:bC:96:LEU:HD13	1.72	0.71
1:bF:99:LEU:CD1	1:lR:102:GLU:CD	2.60	0.71
2:bZ:184:TYR:HH	2:bZ:204:PHE:HD1	1.36	0.71
2:co:60:ILE:HG22	1:iq:105:THR:HG23	1.69	0.71
2:cr:174:ASP:OD1	2:cr:214:ARG:NH2	2.22	0.71
2:cD:174:ASP:OD1	2:cD:214:ARG:NH2	2.23	0.71
1:cJ:99:LEU:CA	1:po:102:GLU:OE1	2.28	0.71
2:cS:294:LEU:HD23	2:cS:295:VAL:HG23	1.71	0.71
2:dT:106:MET:HG3	2:dT:184:TYR:HD1	1.54	0.71
2:el:18:LYS:HE2	2:el:96:LEU:HD13	1.72	0.71
2:el:243:TYR:OH	2:el:291:ASN:ND2	2.24	0.71
1:es:103:ARG:NE	2:of:61:GLY:HA2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ev:225:GLN:O	2:ev:238:ASN:ND2	2.22	0.71
2:fb:243:TYR:OH	2:fb:291:ASN:ND2	2.24	0.71
2:fn:174:ASP:OD1	2:fn:214:ARG:NH2	2.23	0.71
2:fd:243:TYR:OH	2:fd:291:ASN:ND2	2.24	0.71
1:fu:99:LEU:CD1	1:mt:102:GLU:CD	2.60	0.71
2:gb:106:MET:HG3	2:gb:184:TYR:HD1	1.54	0.71
2:gc:196:THR:HG23	2:mk:205:MET:HE1	1.72	0.71
1:gn:100:LYS:HZ1	1:hZ:100:LYS:CD	2.04	0.71
2:gq:268:THR:OG1	2:gs:248:ASN:OD1	2.07	0.71
1:gw:99:LEU:CD1	1:pd:102:GLU:CD	2.60	0.71
2:gE:268:THR:OG1	2:gG:248:ASN:OD1	2.07	0.71
1:gM:60:ARG:CD	1:lR:99:LEU:HD21	2.18	0.71
2:gR:52:GLN:N	2:gR:52:GLN:OE1	2.23	0.71
1:gX:59:VAL:HG12	1:gX:61:ALA:H	1.53	0.71
2:hu:186:GLU:O	2:kR:191:SER:OG	2.08	0.71
2:hw:281:GLN:OE1	2:hw:281:GLN:N	2.24	0.71
1:hE:70:GLY:CA	6:qC:57:GLN:CB	2.69	0.71
2:hJ:243:TYR:OH	2:hJ:291:ASN:ND2	2.24	0.71
2:hK:262:ASN:HA	2:hK:295:VAL:HG22	1.71	0.71
1:ip:95:SER:OG	1:ip:96:ASP:OD1	2.07	0.71
2:iy:294:LEU:HD23	2:iy:295:VAL:HG23	1.71	0.71
2:jb:18:LYS:HE2	2:jb:96:LEU:HD13	1.72	0.71
2:jD:18:LYS:HE2	2:jD:96:LEU:HD13	1.72	0.71
1:jH:99:LEU:CD1	1:oM:60:ARG:NH2	2.52	0.71
2:ko:88:ARG:NH2	2:ko:200:ASP:OD1	2.23	0.71
2:ks:243:TYR:OH	2:ks:291:ASN:ND2	2.24	0.71
2:kQ:225:GLN:O	2:kQ:238:ASN:ND2	2.22	0.71
2:lh:294:LEU:HD23	2:lh:295:VAL:HG23	1.71	0.71
2:lW:174:ASP:OD1	2:lW:214:ARG:NH2	2.23	0.71
1:mo:59:VAL:HG12	1:mo:61:ALA:H	1.54	0.71
2:mv:88:ARG:NH2	2:mv:200:ASP:OD1	2.23	0.71
2:my:282:ARG:NH1	2:my:286:GLY:O	2.22	0.71
2:mN:294:LEU:HD23	2:mN:295:VAL:HG23	1.71	0.71
2:na:174:ASP:OD1	2:na:214:ARG:NH2	2.23	0.71
1:ns:59:VAL:HG12	1:ns:61:ALA:H	1.53	0.71
1:nU:100:LYS:CG	1:oa:100:LYS:HZ1	2.00	0.71
1:ok:95:SER:OG	1:ok:96:ASP:OD1	2.07	0.71
2:oI:18:LYS:HE2	2:oI:96:LEU:HD13	1.72	0.71
2:pl:262:ASN:HA	2:pl:295:VAL:HG22	1.71	0.71
2:pV:88:ARG:NH2	2:pV:200:ASP:OD1	2.23	0.71
2:pY:248:ASN:OD1	2:pZ:268:THR:OG1	2.07	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:qn:222:GLY:C	4:qo:8:TYR:HH	1.94	0.71
5:qt:105:ASP:OD1	5:qt:355:ARG:NH1	2.23	0.71
5:qx:245:ASP:CG	6:qA:121:VAL:CG2	2.64	0.71
5:qz:53:GLU:OE2	5:qB:35:HIS:HE1	1.66	0.71
5:qz:248:LYS:NZ	6:qC:121:VAL:HG11	2.05	0.71
2:aj:205:MET:HE1	2:mL:196:THR:HG23	1.72	0.71
1:aq:105:THR:CG2	2:kp:60:ILE:CG2	2.62	0.71
2:av:197:LYS:NZ	1:hO:100:LYS:N	2.36	0.71
2:ay:18:LYS:HE2	2:ay:96:LEU:HD13	1.72	0.71
2:aL:61:GLY:HA2	1:mV:103:ARG:NE	2.06	0.71
1:aQ:60:ARG:NE	1:jf:99:LEU:CG	2.53	0.71
1:aR:105:THR:HG23	2:bl:60:ILE:HG22	1.69	0.71
1:aT:99:LEU:HD21	1:iE:60:ARG:CD	2.18	0.71
2:aZ:62:GLN:HG3	2:py:197:LYS:HE3	1.67	0.71
2:ba:281:GLN:N	2:ba:281:GLN:OE1	2.24	0.71
1:bf:105:THR:HG23	2:ds:60:ILE:HG22	1.69	0.71
2:bz:60:ILE:CG2	1:cY:105:THR:CG2	2.62	0.71
2:bC:243:TYR:OH	2:bC:291:ASN:ND2	2.24	0.71
2:bP:281:GLN:OE1	2:bP:281:GLN:N	2.24	0.71
2:cb:174:ASP:OD1	2:cb:214:ARG:NH2	2.23	0.71
2:cc:294:LEU:HD23	2:cc:295:VAL:HG23	1.71	0.71
2:cp:2:ALA:N	2:pt:85:GLY:O	2.24	0.71
2:cB:225:GLN:O	2:cB:238:ASN:ND2	2.22	0.71
1:cX:60:ARG:NE	1:dz:99:LEU:CG	2.53	0.71
1:cX:60:ARG:NH1	1:dz:99:LEU:CD1	2.25	0.71
2:dS:88:ARG:NH2	2:dS:200:ASP:OD1	2.23	0.71
2:dV:174:ASP:OD1	2:dV:214:ARG:NH2	2.23	0.71
2:dX:243:TYR:OH	2:dX:291:ASN:ND2	2.24	0.71
1:ec:60:ARG:CD	1:es:99:LEU:HD21	2.18	0.71
2:ei:196:THR:HG23	2:fB:205:MET:HE1	1.72	0.71
1:eG:99:LEU:HA	2:gr:197:LYS:CD	2.13	0.71
2:eL:167:GLY:N	2:eL:262:ASN:OD1	2.24	0.71
2:eX:225:GLN:O	2:eX:238:ASN:ND2	2.22	0.71
1:fG:100:LYS:HG2	1:kz:100:LYS:HE3	1.71	0.71
1:fH:99:LEU:CG	1:gZ:60:ARG:NE	2.53	0.71
2:fS:262:ASN:HA	2:fS:295:VAL:HG22	1.71	0.71
2:gp:106:MET:HG3	2:gp:184:TYR:HD1	1.54	0.71
2:gu:83:THR:OG1	2:gu:204:PHE:O	2.03	0.71
1:gw:100:LYS:HG2	1:pd:100:LYS:HE3	1.71	0.71
2:gF:167:GLY:N	2:gF:262:ASN:OD1	2.24	0.71
2:gG:61:GLY:HA2	1:pd:103:ARG:NE	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hD:103:ARG:NE	2:kT:61:GLY:HA2	2.06	0.71
2:hX:281:GLN:N	2:hX:281:GLN:OE1	2.24	0.71
2:il:243:TYR:OH	2:il:291:ASN:ND2	2.24	0.71
2:iy:61:GLY:HA2	1:on:103:ARG:NE	2.06	0.71
1:iP:59:VAL:HG12	1:iP:61:ALA:H	1.54	0.71
2:jz:52:GLN:N	2:jz:52:GLN:OE1	2.23	0.71
2:jz:106:MET:HG3	2:jz:184:TYR:HD1	1.54	0.71
1:jI:100:LYS:N	2:or:197:LYS:NZ	2.36	0.71
1:jK:99:LEU:HD22	1:pD:60:ARG:HD3	1.67	0.71
1:jW:63:VAL:HG23	1:jW:99:LEU:HD12	1.70	0.71
2:kq:167:GLY:N	2:kq:262:ASN:OD1	2.24	0.71
2:kG:18:LYS:HE2	2:kG:96:LEU:HD13	1.72	0.71
2:kG:281:GLN:N	2:kG:281:GLN:OE1	2.24	0.71
1:kX:99:LEU:CD1	1:nj:102:GLU:CD	2.60	0.71
1:kY:95:SER:OG	1:kY:96:ASP:OD1	2.07	0.71
2:mk:174:ASP:OD1	2:mk:214:ARG:NH2	2.23	0.71
2:mx:105:GLU:OE2	2:mx:108:ARG:NH1	2.22	0.71
2:my:167:GLY:N	2:my:262:ASN:OD1	2.24	0.71
1:mH:103:ARG:NE	2:oV:61:GLY:HA2	2.06	0.71
2:mO:18:LYS:HE2	2:mO:96:LEU:HD13	1.72	0.71
2:nl:88:ARG:NH2	2:nl:200:ASP:OD1	2.23	0.71
1:nI:99:LEU:CG	1:pa:60:ARG:NE	2.53	0.71
2:nQ:167:GLY:N	2:nQ:262:ASN:OD1	2.24	0.71
2:nS:243:TYR:OH	2:nS:291:ASN:ND2	2.24	0.71
2:nT:262:ASN:HA	2:nT:295:VAL:HG22	1.72	0.71
2:ot:294:LEU:HD23	2:ot:295:VAL:HG23	1.71	0.71
1:oz:63:VAL:HG23	1:oz:99:LEU:HD12	1.70	0.71
2:pi:174:ASP:OD1	2:pi:214:ARG:NH2	2.23	0.71
3:qh:66:GLN:HB2	4:qj:8:TYR:O	1.90	0.71
5:qx:248:LYS:NZ	6:qA:121:VAL:HG11	2.05	0.71
1:ab:99:LEU:CG	1:ng:60:ARG:NE	2.53	0.71
2:aj:174:ASP:OD1	2:aj:214:ARG:NH2	2.23	0.71
1:ao:100:LYS:HG2	1:gm:100:LYS:HE3	1.71	0.71
2:aw:2:ALA:N	2:ko:85:GLY:O	2.24	0.71
2:az:183:ILE:HD13	5:qH:178:PRO:HG2	1.73	0.71
1:aC:95:SER:OG	1:aC:96:ASP:OD1	2.07	0.71
1:aD:60:ARG:CD	1:iU:99:LEU:HD21	2.18	0.71
2:bb:83:THR:OG1	2:bb:204:PHE:O	2.03	0.71
1:be:95:SER:OG	1:be:96:ASP:OD1	2.07	0.71
1:bf:60:ARG:CD	1:do:99:LEU:HD21	2.18	0.71
1:bh:103:ARG:NE	2:jo:61:GLY:HA2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bt:99:LEU:CA	2:ca:197:LYS:HZ1	2.02	0.71
1:bJ:103:ARG:NE	2:IX:61:GLY:HA2	2.06	0.71
2:bQ:262:ASN:HA	2:bQ:295:VAL:HG22	1.72	0.71
2:cr:18:LYS:HE2	2:cr:96:LEU:HD13	1.72	0.71
1:ct:59:VAL:HG12	1:ct:61:ALA:H	1.53	0.71
1:cw:99:LEU:C	2:pJ:197:LYS:HZ2	1.97	0.71
2:cB:52:GLN:OE1	2:cB:52:GLN:N	2.24	0.71
2:cS:61:GLY:HA2	1:pF:103:ARG:NE	2.06	0.71
1:da:103:ARG:NE	2:fo:61:GLY:HA2	2.06	0.71
2:dv:281:GLN:N	2:dv:281:GLN:OE1	2.24	0.71
2:dF:106:MET:HG3	2:dF:184:TYR:HD1	1.54	0.71
1:dQ:103:ARG:NE	2:jQ:61:GLY:HA2	2.06	0.71
2:dW:61:GLY:HA2	1:jK:103:ARG:NE	2.06	0.71
2:eh:52:GLN:N	2:eh:52:GLN:OE1	2.23	0.71
1:en:59:VAL:HG12	1:en:61:ALA:H	1.53	0.71
2:ey:61:GLY:HA2	1:nZ:103:ARG:NE	2.06	0.71
2:eK:197:LYS:NZ	1:ic:100:LYS:N	2.36	0.71
2:fR:281:GLN:OE1	2:fR:281:GLN:N	2.24	0.71
2:ge:61:GLY:HA2	1:mt:103:ARG:NE	2.06	0.71
2:gR:106:MET:HG3	2:gR:184:TYR:HD1	1.54	0.71
2:hj:281:GLN:OE1	2:hj:281:GLN:N	2.24	0.71
1:hm:100:LYS:HG2	1:iU:100:LYS:HE3	1.71	0.71
1:hq:103:ARG:NE	2:ja:61:GLY:HA2	2.06	0.71
2:hw:18:LYS:HE2	2:hw:96:LEU:HD13	1.72	0.71
1:hB:63:VAL:HG23	1:hB:99:LEU:HD12	1.70	0.71
2:hU:105:GLU:OE2	2:hU:108:ARG:NH1	2.22	0.71
2:hX:18:LYS:HE2	2:hX:96:LEU:HD13	1.72	0.71
1:is:103:ARG:NE	2:ot:61:GLY:HA2	2.06	0.71
2:iz:243:TYR:OH	2:iz:291:ASN:ND2	2.24	0.71
2:iM:294:LEU:HD23	2:iM:295:VAL:HG23	1.71	0.71
2: jy:85:GLY:O	2:lg:2:ALA:N	2.24	0.71
2:jR:18:LYS:HE2	2:jR:96:LEU:HD13	1.72	0.71
2:kt:262:ASN:HA	2:kt:295:VAL:HG22	1.71	0.71
2:kC:52:GLN:N	2:kC:52:GLN:OE1	2.24	0.71
2:le:106:MET:HG3	2:le:184:TYR:HD1	1.54	0.71
2:lj:262:ASN:HA	2:lj:295:VAL:HG22	1.71	0.71
2:ls:225:GLN:O	2:ls:238:ASN:ND2	2.22	0.71
2:IG:52:GLN:OE1	2:IG:52:GLN:N	2.24	0.71
2:II:205:MET:HE1	2:oF:196:THR:HG23	1.72	0.71
2:IW:248:ASN:OD1	2:IX:268:THR:OG1	2.07	0.71
2:IY:243:TYR:OH	2:IY:291:ASN:ND2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mE:60:ARG:NE	1:ng:99:LEU:CG	2.53	0.71
1:mH:100:LYS:HE3	1:oL:100:LYS:HG2	1.71	0.71
2:nm:184:TYR:HH	2:nm:204:PHE:HD1	1.37	0.71
2:nE:281:GLN:N	2:nE:281:GLN:OE1	2.24	0.71
2:of:294:LEU:HD23	2:of:295:VAL:HG23	1.71	0.71
2:oJ:262:ASN:HA	2:oJ:295:VAL:HG22	1.72	0.71
1:pC:95:SER:OG	1:pC:96:ASP:OD1	2.07	0.71
2:pM:18:LYS:HE2	2:pM:96:LEU:HD13	1.72	0.71
4:qj:214:GLN:O	4:qk:38:GLN:HA	1.91	0.71
6:qq:121:VAL:HG11	5:qL:248:LYS:NZ	2.05	0.71
5:qv:245:ASP:CG	6:qy:121:VAL:CG2	2.64	0.71
5:qD:398:TRP:CH2	5:qF:405:ILE:CD1	2.72	0.71
2:am:226:LEU:HD22	2:am:270:LEU:HD22	1.73	0.71
1:aq:100:LYS:N	2:ds:197:LYS:NZ	2.36	0.71
2:aw:197:LYS:CD	1:km:99:LEU:HA	2.13	0.71
2:aJ:196:THR:HG23	2:kS:205:MET:HE1	1.72	0.71
1:aQ:95:SER:OG	1:aQ:96:ASP:OD1	2.07	0.71
2:aV:85:GLY:O	2:iL:2:ALA:N	2.24	0.71
2:aY:2:ALA:N	2:bj:85:GLY:O	2.24	0.71
2:ba:18:LYS:HE2	2:ba:96:LEU:HD13	1.72	0.71
2:bm:174:ASP:OD1	2:bm:214:ARG:NH2	2.23	0.71
2:bo:18:LYS:HE2	2:bo:96:LEU:HD13	1.72	0.71
2:bo:281:GLN:N	2:bo:281:GLN:OE1	2.24	0.71
2:by:52:GLN:OE1	2:by:52:GLN:N	2.24	0.71
1:bW:100:LYS:HE3	1:hM:100:LYS:HG2	1.71	0.71
2:bZ:198:GLU:CD	1:iH:101:VAL:CG1	2.58	0.71
2:cm:88:ARG:NH2	2:cm:200:ASP:OD1	2.23	0.71
1:cM:102:GLU:CD	1:pB:99:LEU:CD1	2.60	0.71
1:dQ:99:LEU:HD21	1:oN:60:ARG:CD	2.18	0.71
2:ej:2:ALA:N	2:eu:85:GLY:O	2.24	0.71
2:ek:61:GLY:HA2	1:mf:103:ARG:NE	2.06	0.71
1:et:90:LEU:O	1:et:94:GLU:N	2.24	0.71
2:ey:294:LEU:HD23	2:ey:295:VAL:HG23	1.71	0.71
1:eD:60:ARG:NE	1:ff:99:LEU:CG	2.53	0.71
2:eI:85:GLY:O	2:gr:2:ALA:N	2.24	0.71
1:eQ:100:LYS:HG2	1:iG:100:LYS:HE3	1.71	0.71
2:eW:88:ARG:NH2	2:eW:200:ASP:OD1	2.23	0.71
2:eX:221:PHE:CD1	2:eX:242:VAL:HG22	2.26	0.71
2:eZ:167:GLY:N	2:eZ:262:ASN:OD1	2.24	0.71
2:fE:262:ASN:HA	2:fE:295:VAL:HG22	1.72	0.71
2:fN:221:PHE:CD1	2:fN:242:VAL:HG22	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fP:2:ALA:N	2:ga:85:GLY:O	2.24	0.71
2:fR:18:LYS:HE2	2:fR:96:LEU:HD13	1.72	0.71
1:fW:63:VAL:HG23	1:fW:99:LEU:HD12	1.70	0.71
2:ga:88:ARG:NH2	2:ga:200:ASP:OD1	2.23	0.71
2:gd:167:GLY:N	2:gd:262:ASN:OD1	2.24	0.71
1:gj:95:SER:OG	1:gj:96:ASP:OD1	2.07	0.71
2:gV:171:TYR:HH	2:gV:175:THR:HG1	1.39	0.71
1:gZ:95:SER:OG	1:gZ:96:ASP:OD1	2.07	0.71
2:hs:85:GLY:O	2:kq:2:ALA:N	2.24	0.71
2:hs:88:ARG:NH2	2:hs:200:ASP:OD1	2.23	0.71
2:hs:182:LEU:HD13	5:qB:176:ASN:CA	2.14	0.71
2:hI:61:GLY:HA2	1:kN:103:ARG:NE	2.06	0.71
1:ie:103:ARG:NE	2:nD:61:GLY:HA2	2.06	0.71
2:ix:186:GLU:O	2:lt:191:SER:OG	2.08	0.71
2:iL:167:GLY:N	2:iL:262:ASN:OD1	2.24	0.71
2:iL:205:MET:HE1	2:pv:196:THR:HG23	1.72	0.71
2:jn:2:ALA:N	2:lr:85:GLY:O	2.24	0.71
1:jt:95:SER:OG	1:jt:96:ASP:OD1	2.07	0.71
2:jy:88:ARG:NH2	2:jy:200:ASP:OD1	2.23	0.71
2:kd:205:MET:HE1	2:mZ:196:THR:HG23	1.72	0.71
2:ko:41:THR:HG22	5:qF:51:GLU:OE1	1.90	0.71
2:kE:167:GLY:N	2:kE:262:ASN:OD1	2.24	0.71
2:kU:281:GLN:OE1	2:kU:281:GLN:N	2.24	0.71
1:kY:60:ARG:NE	1:lA:99:LEU:CG	2.53	0.71
1:lc:90:LEU:O	1:lc:94:GLU:N	2.24	0.71
2:lg:167:GLY:N	2:lg:262:ASN:OD1	2.24	0.71
2:li:18:LYS:HE2	2:li:96:LEU:HD13	1.72	0.71
2:lu:167:GLY:N	2:lu:262:ASN:OD1	2.24	0.71
2:mm:18:LYS:HE2	2:mm:96:LEU:HD13	1.72	0.71
1:mr:63:VAL:HG23	1:mr:99:LEU:HD12	1.70	0.71
2:mB:83:THR:OG1	2:mB:204:PHE:O	2.03	0.71
1:mE:95:SER:OG	1:mE:96:ASP:OD1	2.07	0.71
2:np:294:LEU:HD23	2:np:295:VAL:HG23	1.71	0.71
1:ny:90:LEU:O	1:ny:94:GLU:N	2.24	0.71
2:og:281:GLN:N	2:og:281:GLN:OE1	2.24	0.71
2:os:248:ASN:OD1	2:ot:268:THR:OG1	2.07	0.71
2:pu:221:PHE:CD1	2:pu:242:VAL:HG22	2.26	0.71
2:pK:174:ASP:OD1	2:pK:214:ARG:NH2	2.23	0.71
2:pM:243:TYR:OH	2:pM:291:ASN:ND2	2.24	0.71
2:pM:281:GLN:OE1	2:pM:281:GLN:N	2.24	0.71
3:qd:66:GLN:C	4:qn:8:TYR:HD2	1.98	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qd:66:GLN:HA	4:qn:8:TYR:O	1.91	0.71
4:qk:214:GLN:O	4:ql:38:GLN:HA	1.91	0.71
4:ql:238:THR:HG22	4:qm:50:TYR:HH	1.55	0.71
6:qq:112:LEU:HD21	6:qs:58:LEU:CB	2.20	0.71
5:qt:245:ASP:CG	6:qw:121:VAL:CG2	2.64	0.71
5:qD:245:ASP:OD2	6:qG:121:VAL:HG23	1.91	0.71
6:qG:112:LEU:HD21	6:qI:58:LEU:CB	2.20	0.71
5:qH:245:ASP:CG	6:qK:121:VAL:CG2	2.64	0.71
5:qL:105:ASP:OD1	5:qL:355:ARG:NH1	2.23	0.71
1:ab:95:SER:OG	1:ab:96:ASP:OD1	2.07	0.71
1:ac:105:THR:CG2	2:oT:60:ILE:CG2	2.62	0.71
1:ae:103:ARG:NE	2:fC:61:GLY:HA2	2.06	0.71
2:aK:2:ALA:N	2:iW:85:GLY:O	2.24	0.71
2:bk:106:MET:HG3	2:bk:184:TYR:HD1	1.54	0.71
2:bm:2:ALA:N	2:dq:85:GLY:O	2.24	0.71
2:bC:171:TYR:HH	2:bC:175:THR:HG1	1.37	0.71
2:bN:174:ASP:OD1	2:bN:214:ARG:NH2	2.23	0.71
2:bO:61:GLY:HA2	1:lR:103:ARG:NE	2.06	0.71
2:bP:243:TYR:OH	2:bP:291:ASN:ND2	2.24	0.71
1:bX:101:VAL:CG1	2:dr:198:GLU:CD	2.58	0.71
1:cl:90:LEU:O	1:cl:94:GLU:N	2.24	0.71
1:cv:99:LEU:CD1	1:dN:60:ARG:NH2	2.52	0.71
1:cv:99:LEU:CG	1:dN:60:ARG:NE	2.53	0.71
1:cK:105:THR:HG23	2:eY:60:ILE:HG22	1.69	0.71
2:cU:262:ASN:HA	2:cU:295:VAL:HG22	1.72	0.71
1:cV:59:VAL:HG12	1:cV:61:ALA:H	1.54	0.71
2:de:60:ILE:HG22	1:eE:105:THR:HG23	1.69	0.71
1:dl:95:SER:OG	1:dl:96:ASP:OD1	2.07	0.71
1:do:103:ARG:NE	2:kr:61:GLY:HA2	2.06	0.71
2:dE:88:ARG:NH2	2:dE:200:ASP:OD1	2.23	0.71
2:dH:174:ASP:OD1	2:dH:214:ARG:NH2	2.23	0.71
2:dJ:281:GLN:N	2:dJ:281:GLN:OE1	2.24	0.71
2:eg:85:GLY:O	2:nC:2:ALA:N	2.24	0.71
2:ez:281:GLN:N	2:ez:281:GLN:OE1	2.24	0.71
2:eN:18:LYS:HE2	2:eN:96:LEU:HD13	1.72	0.71
2:fI:52:GLN:N	2:fI:52:GLN:OE1	2.23	0.71
2:fE:226:LEU:HD22	2:fE:270:LEU:HD22	1.73	0.71
2:fN:106:MET:HG3	2:fN:184:TYR:HD1	1.54	0.71
2:fO:196:THR:HG23	2:hh:205:MET:HE1	1.72	0.71
2:go:85:GLY:O	2:hV:2:ALA:N	2.24	0.71
1:gP:90:LEU:O	1:gP:94:GLU:N	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gT:248:ASN:OD1	2:gU:268:THR:OG1	2.07	0.71
2:hg:196:THR:HG23	2:my:205:MET:HE1	1.72	0.71
2:hj:243:TYR:OH	2:hj:291:ASN:ND2	2.24	0.71
2:jB:174:ASP:OD1	2:jB:214:ARG:NH2	2.23	0.71
2:jD:243:TYR:OH	2:jD:291:ASN:ND2	2.24	0.71
1:jL:101:VAL:CG1	2:pI:198:GLU:CD	2.58	0.71
2:kH:262:ASN:HA	2:kH:295:VAL:HG22	1.71	0.71
2:kS:167:GLY:N	2:kS:262:ASN:OD1	2.24	0.71
2:kS:174:ASP:OD1	2:kS:214:ARG:NH2	2.23	0.71
1:lb:99:LEU:HA	2:mM:197:LYS:CD	2.13	0.71
1:lE:90:LEU:O	1:lE:94:GLU:N	2.24	0.71
1:lS:90:LEU:O	1:lS:94:GLU:N	2.24	0.71
2:lU:106:MET:HG3	2:lU:184:TYR:HD1	1.54	0.71
2:lW:167:GLY:N	2:lW:262:ASN:OD1	2.24	0.71
2:mK:221:PHE:CD1	2:mK:242:VAL:HG22	2.26	0.71
2:na:167:GLY:N	2:na:262:ASN:OD1	2.24	0.71
2:nA:221:PHE:CD1	2:nA:242:VAL:HG22	2.26	0.71
2:nD:294:LEU:HD23	2:nD:295:VAL:HG23	1.71	0.71
2:nQ:174:ASP:OD1	2:nQ:214:ARG:NH2	2.23	0.71
2:oc:106:MET:HG3	2:oc:184:TYR:HD1	1.54	0.71
1:ow:59:VAL:HG12	1:ow:61:ALA:H	1.54	0.71
1:oC:90:LEU:O	1:oC:94:GLU:N	2.24	0.71
2:oE:52:GLN:N	2:oE:52:GLN:OE1	2.23	0.71
2:oW:243:TYR:OH	2:oW:291:ASN:ND2	2.24	0.71
2:pi:167:GLY:N	2:pi:262:ASN:OD1	2.24	0.71
2:pW:106:MET:HG3	2:pW:184:TYR:HD1	1.54	0.71
2:pY:174:ASP:OD1	2:pY:214:ARG:NH2	2.23	0.71
4:qm:218:LEU:HD13	4:qn:189:TYR:CD2	2.26	0.71
6:qu:112:LEU:HD21	6:qw:58:LEU:CB	2.20	0.71
5:qB:105:ASP:OD1	5:qB:355:ARG:NH1	2.23	0.71
5:qD:53:GLU:OE2	5:qF:35:HIS:HE1	1.66	0.71
5:qJ:245:ASP:CG	6:qM:121:VAL:CG2	2.64	0.71
2:ah:198:GLU:CD	1:oQ:101:VAL:CG1	2.58	0.70
2:aj:167:GLY:N	2:aj:262:ASN:OD1	2.24	0.70
2:al:243:TYR:OH	2:al:291:ASN:ND2	2.24	0.70
1:as:103:ARG:NE	2:gs:61:GLY:HA2	2.06	0.70
2:aw:167:GLY:N	2:aw:262:ASN:OD1	2.24	0.70
2:ay:243:TYR:OH	2:ay:291:ASN:ND2	2.24	0.70
2:az:103:MET:CE	5:qJ:32:PHE:CE2	2.42	0.70
1:aG:90:LEU:O	1:aG:94:GLU:N	2.24	0.70
2:aH:85:GLY:O	2:kd:2:ALA:N	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aK:186:GLU:O	2:ht:191:SER:OG	2.08	0.70
1:bw:90:LEU:O	1:bw:94:GLU:N	2.24	0.70
2:bB:61:GLY:HA2	1:dC:103:ARG:NE	2.06	0.70
2:bN:167:GLY:N	2:bN:262:ASN:OD1	2.24	0.70
2:cb:167:GLY:N	2:cb:262:ASN:OD1	2.24	0.70
2:cp:81:GLU:O	2:cs:57:ARG:N	2.24	0.70
2:cr:243:TYR:OH	2:cr:291:ASN:ND2	2.24	0.70
1:db:99:LEU:HG	1:eP:102:GLU:OE2	1.74	0.70
2:dh:18:LYS:HE2	2:dh:96:LEU:HD13	1.72	0.70
2:dr:52:GLN:N	2:dr:52:GLN:OE1	2.24	0.70
2:dw:83:THR:OG1	2:dw:204:PHE:O	2.03	0.70
2:dU:197:LYS:NZ	1:pD:100:LYS:N	2.36	0.70
2:dV:167:GLY:N	2:dV:262:ASN:OD1	2.24	0.70
1:eb:99:LEU:CD1	1:ft:60:ARG:NH2	2.52	0.70
1:ee:100:LYS:HE3	1:mb:100:LYS:HG2	1.71	0.70
1:ef:90:LEU:O	1:ef:94:GLU:N	2.24	0.70
1:es:100:LYS:HE3	1:nV:100:LYS:HG2	1.71	0.70
2:eJ:52:GLN:N	2:eJ:52:GLN:OE1	2.23	0.70
2:fl:221:PHE:CD1	2:fl:242:VAL:HG22	2.26	0.70
2:fP:81:GLU:O	2:fS:57:ARG:N	2.24	0.70
2:fQ:61:GLY:HA2	1:kz:103:ARG:NE	2.06	0.70
1:fZ:90:LEU:O	1:fZ:94:GLU:N	2.24	0.70
2:gp:221:PHE:CD1	2:gp:242:VAL:HG22	2.26	0.70
2:gs:294:LEU:HD23	2:gs:295:VAL:HG23	1.71	0.70
1:hn:95:SER:OG	1:hn:96:ASP:OD1	2.07	0.70
2:hu:174:ASP:OD1	2:hu:214:ARG:NH2	2.23	0.70
2:ik:61:GLY:HA2	1:nx:103:ARG:NE	2.06	0.70
2:iv:106:MET:HG3	2:iv:184:TYR:HD1	1.54	0.70
1:iV:90:LEU:O	1:iV:94:GLU:N	2.24	0.70
2:jp:171:TYR:HH	2:jp:175:THR:HG1	1.39	0.70
1:jw:102:GLU:CD	1:lz:99:LEU:CD1	2.60	0.70
1:jw:103:ARG:NE	2:lJ:61:GLY:HA2	2.06	0.70
1:jx:90:LEU:O	1:jx:94:GLU:N	2.24	0.70
2:jB:2:ALA:N	2:pV:85:GLY:O	2.24	0.70
1:jH:95:SER:OG	1:jH:96:ASP:OD1	2.07	0.70
2:jM:85:GLY:O	2:pK:2:ALA:N	2.24	0.70
2:jR:281:GLN:N	2:jR:281:GLN:OE1	2.24	0.70
1:jV:95:SER:OG	1:jV:96:ASP:OD1	2.07	0.70
1:jZ:101:VAL:CG1	2:ls:198:GLU:CD	2.58	0.70
2:ka:85:GLY:O	2:lu:2:ALA:N	2.24	0.70
2:kd:167:GLY:N	2:kd:262:ASN:OD1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lb:103:ARG:NE	2:np:61:GLY:HA2	2.06	0.70
2:le:221:PHE:CD1	2:le:242:VAL:HG22	2.26	0.70
2:lg:174:ASP:OD1	2:lg:214:ARG:NH2	2.23	0.70
2:lg:205:MET:HE1	2:lH:196:THR:HG23	1.72	0.70
2:li:243:TYR:OH	2:li:291:ASN:ND2	2.24	0.70
1:lE:101:VAL:CG1	2:mY:198:GLU:CD	2.58	0.70
2:lK:18:LYS:HE2	2:lK:96:LEU:HD13	1.72	0.70
2:lW:81:GLU:O	2:lZ:57:ARG:N	2.24	0.70
2:mk:2:ALA:N	2:mv:85:GLY:O	2.24	0.70
2:nC:167:GLY:N	2:nC:262:ASN:OD1	2.24	0.70
2:og:243:TYR:OH	2:og:291:ASN:ND2	2.24	0.70
2:oW:281:GLN:OE1	2:oW:281:GLN:N	2.24	0.70
2:pk:281:GLN:N	2:pk:281:GLN:OE1	2.24	0.70
2:pu:52:GLN:OE1	2:pu:52:GLN:N	2.23	0.70
2:py:243:TYR:OH	2:py:291:ASN:ND2	2.24	0.70
2:pz:262:ASN:HA	2:pz:295:VAL:HG22	1.72	0.70
1:pA:59:VAL:HG12	1:pA:61:ALA:H	1.54	0.70
2:pW:221:PHE:CD1	2:pW:242:VAL:HG22	2.26	0.70
5:qp:245:ASP:OD2	6:qs:121:VAL:HG23	1.91	0.70
5:qx:105:ASP:OD1	5:qx:355:ARG:NH1	2.23	0.70
5:qB:53:GLU:OE2	5:qD:35:HIS:HE1	1.66	0.70
5:qD:245:ASP:CG	6:qG:121:VAL:CG2	2.64	0.70
6:qI:112:LEU:HD21	6:qK:58:LEU:CB	2.20	0.70
2:ag:85:GLY:O	2:oe:2:ALA:N	2.24	0.70
2:ak:61:GLY:HA2	1:fw:103:ARG:NE	2.06	0.70
2:au:85:GLY:O	2:bN:2:ALA:N	2.24	0.70
1:aT:100:LYS:HE3	1:pn:100:LYS:HG2	1.71	0.70
2:aW:106:MET:HG3	2:aW:184:TYR:HD1	1.54	0.70
2:aW:198:GLU:CD	1:bi:101:VAL:CG1	2.58	0.70
2:bb:262:ASN:HA	2:bb:295:VAL:HG22	1.71	0.70
1:be:60:ARG:NE	1:kj:99:LEU:CG	2.53	0.70
1:bW:103:ARG:NE	2:hW:61:GLY:HA2	2.06	0.70
1:cw:105:THR:CG2	2:cQ:60:ILE:CG2	2.62	0.70
2:cB:221:PHE:CD1	2:cB:242:VAL:HG22	2.26	0.70
2:cC:197:LYS:HZ1	1:dO:99:LEU:C	1.99	0.70
2:cE:61:GLY:HA2	1:nL:103:ARG:NE	2.06	0.70
2:cF:243:TYR:OH	2:cF:291:ASN:ND2	2.24	0.70
2:dv:243:TYR:OH	2:dv:291:ASN:ND2	2.24	0.70
2:dw:226:LEU:HD22	2:dw:270:LEU:HD22	1.73	0.70
2:dJ:243:TYR:OH	2:dJ:291:ASN:ND2	2.24	0.70
2:ex:2:ALA:N	2:gC:85:GLY:O	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fK:103:ARG:NE	2:kF:61:GLY:HA2	2.06	0.70
1:fL:90:LEU:O	1:fL:94:GLU:N	2.24	0.70
1:fL:99:LEU:HG	1:ma:102:GLU:OE2	1.74	0.70
1:fV:60:ARG:NH2	1:nu:99:LEU:CD1	2.52	0.70
2:gI:262:ASN:HA	2:gI:295:VAL:HG22	1.72	0.70
2:hh:167:GLY:N	2:hh:262:ASN:OD1	2.24	0.70
2:hk:226:LEU:HD22	2:hk:270:LEU:HD22	1.73	0.70
1:hy:102:GLU:OE2	1:hE:99:LEU:HG	1.74	0.70
1:hA:95:SER:OG	1:hA:96:ASP:OD1	2.07	0.70
1:hE:90:LEU:O	1:hE:94:GLU:N	2.24	0.70
2:hH:167:GLY:N	2:hH:262:ASN:OD1	2.24	0.70
2:iu:85:GLY:O	2:jP:2:ALA:N	2.24	0.70
2:jb:243:TYR:OH	2:jb:291:ASN:ND2	2.24	0.70
1:ju:60:ARG:CD	1:pT:99:LEU:HD21	2.18	0.70
2:jz:221:PHE:CD1	2:jz:242:VAL:HG22	2.26	0.70
2:jD:281:GLN:N	2:jD:281:GLN:OE1	2.24	0.70
2:ke:61:GLY:HA2	1:pT:103:ARG:NE	2.06	0.70
2:ks:18:LYS:HE2	2:ks:96:LEU:HD13	1.72	0.70
2:kG:243:TYR:OH	2:kG:291:ASN:ND2	2.24	0.70
2:lF:85:GLY:O	2:na:2:ALA:N	2.24	0.70
2:lG:221:PHE:CD1	2:lG:242:VAL:HG22	2.26	0.70
2:lY:281:GLN:N	2:lY:281:GLN:OE1	2.24	0.70
2:mm:243:TYR:OH	2:mm:291:ASN:ND2	2.24	0.70
2:mM:167:GLY:N	2:mM:262:ASN:OD1	2.24	0.70
2:nd:262:ASN:HA	2:nd:295:VAL:HG22	1.72	0.70
2:nq:243:TYR:OH	2:nq:291:ASN:ND2	2.24	0.70
1:nJ:105:THR:HG21	2:od:60:ILE:HG22	1.57	0.70
2:oG:167:GLY:N	2:oG:262:ASN:OD1	2.24	0.70
2:oJ:226:LEU:HD22	2:oJ:270:LEU:HD22	1.73	0.70
2:oR:88:ARG:NH2	2:oR:200:ASP:OD1	2.23	0.70
2:oX:226:LEU:HD22	2:oX:270:LEU:HD22	1.73	0.70
3:qh:66:GLN:HA	4:qj:8:TYR:HD2	1.54	0.70
4:qj:8:TYR:HH	4:qo:222:GLY:C	1.95	0.70
5:qp:380:MET:HE2	5:qp:403:LEU:HD21	1.73	0.70
6:qq:121:VAL:HG23	5:qL:245:ASP:OD2	1.91	0.70
5:qr:105:ASP:OD1	5:qr:355:ARG:NH1	2.23	0.70
5:qr:380:MET:HE2	5:qr:403:LEU:HD21	1.73	0.70
5:qv:398:TRP:CH2	5:qx:405:ILE:CD1	2.72	0.70
6:qI:8:ASP:CA	6:qK:39:ARG:HH12	2.04	0.70
2:ay:281:GLN:N	2:ay:281:GLN:OE1	2.24	0.70
2:aX:196:THR:HG23	2:cp:205:MET:HE1	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aZ:61:GLY:HA2	1:pr:103:ARG:NE	2.06	0.70
2:bx:85:GLY:O	2:df:2:ALA:N	2.24	0.70
2:bx:88:ARG:NH2	2:bx:200:ASP:OD1	2.23	0.70
2:by:106:MET:HG3	2:by:184:TYR:HD1	1.54	0.70
2:bA:2:ALA:N	2:hS:85:GLY:O	2.24	0.70
1:bK:90:LEU:O	1:bK:94:GLU:N	2.24	0.70
1:ci:105:THR:HG23	2:pv:60:ILE:HG22	1.69	0.70
2:cp:197:LYS:CD	1:pr:99:LEU:HA	2.13	0.70
2:cq:62:GLN:HG3	2:lw:197:LYS:HE3	1.67	0.70
2:cA:85:GLY:O	2:pi:2:ALA:N	2.24	0.70
2:cA:88:ARG:NH2	2:cA:200:ASP:OD1	2.23	0.70
2:cF:18:LYS:HE2	2:cF:96:LEU:HD13	1.72	0.70
1:cJ:102:GLU:HB2	1:iD:99:LEU:HD22	1.73	0.70
1:cM:103:ARG:NE	2:pL:61:GLY:HA2	2.06	0.70
1:db:90:LEU:O	1:db:94:GLU:N	2.24	0.70
2:dc:88:ARG:NH2	2:dc:200:ASP:OD1	2.23	0.70
2:dH:2:ALA:N	2:pf:85:GLY:O	2.24	0.70
2:dS:85:GLY:O	2:oU:2:ALA:N	2.24	0.70
2:dV:2:ALA:N	2:nN:85:GLY:O	2.24	0.70
2:eh:106:MET:HG3	2:eh:184:TYR:HD1	1.54	0.70
2:ex:81:GLU:O	2:eA:57:ARG:N	2.24	0.70
2:ez:243:TYR:OH	2:ez:291:ASN:ND2	2.24	0.70
1:eG:103:ARG:NE	2:gU:61:GLY:HA2	2.06	0.70
2:eM:61:GLY:HA2	1:gO:103:ARG:NE	2.06	0.70
2:fk:85:GLY:O	2:gF:2:ALA:N	2.24	0.70
2:fn:167:GLY:N	2:fn:262:ASN:OD1	2.24	0.70
2:gf:243:TYR:OH	2:gf:291:ASN:ND2	2.24	0.70
2:gf:281:GLN:N	2:gf:281:GLN:OE1	2.24	0.70
1:gm:99:LEU:HD21	1:hO:60:ARG:CD	2.18	0.70
2:gV:243:TYR:OH	2:gV:291:ASN:ND2	2.24	0.70
1:ha:60:ARG:CD	1:kz:99:LEU:HD21	2.18	0.70
2:hh:197:LYS:CD	1:kz:99:LEU:HA	2.13	0.70
2:hv:61:GLY:HA2	1:iU:103:ARG:NE	2.06	0.70
2:hF:170:TRP:HE1	5:qy:27:GLY:HA2	1.56	0.70
1:hZ:59:VAL:HG12	1:hZ:61:ALA:H	1.53	0.70
1:is:99:LEU:HA	2:jP:197:LYS:CD	2.13	0.70
2:iJ:221:PHE:CD1	2:iJ:242:VAL:HG22	2.26	0.70
2:jP:243:TYR:OH	2:jP:291:ASN:ND2	2.24	0.70
2:jP:281:GLN:N	2:jP:281:GLN:OE1	2.24	0.70
2:kt:226:LEU:HD22	2:kt:270:LEU:HD22	1.73	0.70
2:ls:221:PHE:CD1	2:ls:242:VAL:HG22	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nm:106:MET:HG3	2:nm:184:TYR:HD1	1.54	0.70
2:nA:225:GLN:O	2:nA:238:ASN:ND2	2.22	0.70
2:ou:18:LYS:HE2	2:ou:96:LEU:HD13	1.72	0.70
1:pp:60:ARG:CD	1:pF:99:LEU:HD21	2.18	0.70
1:ps:90:LEU:O	1:ps:94:GLU:N	2.24	0.70
2:qa:243:TYR:OH	2:qa:291:ASN:ND2	2.24	0.70
3:qi:68:ALA:CA	4:qo:8:TYR:CE2	2.73	0.70
5:qz:394:ILE:HD11	5:qB:405:ILE:HG23	1.68	0.70
5:qB:245:ASP:OD2	6:qE:121:VAL:HG23	1.91	0.70
5:qF:245:ASP:OD2	6:qI:121:VAL:HG23	1.91	0.70
5:qH:248:LYS:NZ	6:qK:121:VAL:HG11	2.05	0.70
6:qK:8:ASP:CA	6:qM:39:ARG:HH12	2.04	0.70
2:az:226:LEU:HD22	2:az:270:LEU:HD22	1.73	0.70
1:aA:102:GLU:OE2	1:kn:99:LEU:HG	1.74	0.70
1:aC:60:ARG:NE	1:hn:99:LEU:CG	2.53	0.70
1:aC:99:LEU:CG	1:kK:60:ARG:NE	2.53	0.70
2:bp:262:ASN:HA	2:bp:295:VAL:HG22	1.72	0.70
2:by:198:GLU:CD	1:hR:101:VAL:CG1	2.58	0.70
2:bQ:226:LEU:HD22	2:bQ:270:LEU:HD22	1.73	0.70
2:bY:85:GLY:O	2:dt:2:ALA:N	2.24	0.70
2:cd:281:GLN:N	2:cd:281:GLN:OE1	2.24	0.70
2:cm:85:GLY:O	2:ix:2:ALA:N	2.24	0.70
2:cA:174:ASP:OD1	2:cA:214:ARG:NH2	2.25	0.70
2:dY:226:LEU:HD22	2:dY:270:LEU:HD22	1.73	0.70
2:eA:226:LEU:HD22	2:eA:270:LEU:HD22	1.73	0.70
1:eB:100:LYS:CD	1:gB:100:LYS:HZ1	2.05	0.70
1:eD:99:LEU:CG	1:ib:60:ARG:NE	2.53	0.70
2:eL:186:GLU:O	2:fm:191:SER:OG	2.08	0.70
1:eV:90:LEU:O	1:eV:94:GLU:N	2.24	0.70
1:ff:60:ARG:NH2	1:ib:99:LEU:CD1	2.52	0.70
2:fD:281:GLN:N	2:fD:281:GLN:OE1	2.24	0.70
2:ga:174:ASP:OD1	2:ga:214:ARG:NH2	2.25	0.70
2:gb:221:PHE:CD1	2:gb:242:VAL:HG22	2.26	0.70
2:go:88:ARG:NH2	2:go:200:ASP:OD1	2.23	0.70
2:gr:81:GLU:O	2:gu:57:ARG:N	2.24	0.70
2:hk:262:ASN:HA	2:hk:295:VAL:HG22	1.71	0.70
2:hs:107:GLY:CA	5:qB:177:SER:CA	2.62	0.70
2:hW:294:LEU:HD23	2:hW:295:VAL:HG23	1.71	0.70
1:ip:99:LEU:CG	1:pQ:60:ARG:NE	2.53	0.70
2:ix:205:MET:HE1	2:lt:196:THR:HG23	1.72	0.70
1:iD:60:ARG:NE	1:po:99:LEU:CG	2.53	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iN:281:GLN:N	2:iN:281:GLN:OE1	2.24	0.70
1:iR:99:LEU:CG	1:kj:60:ARG:NE	2.53	0.70
2:jn:81:GLU:O	2:jq:57:ARG:N	2.25	0.70
2:jS:226:LEU:HD22	2:jS:270:LEU:HD22	1.73	0.70
1:jZ:90:LEU:O	1:jZ:94:GLU:N	2.24	0.70
2:kb:221:PHE:CD1	2:kb:242:VAL:HG22	2.26	0.70
2:ko:170:TRP:NE1	5:qF:30:LYS:HG3	2.06	0.70
1:kx:105:THR:CG2	2:kR:60:ILE:CG2	2.62	0.70
2:kV:226:LEU:HD22	2:kV:270:LEU:HD22	1.73	0.70
2:lw:18:LYS:HE2	2:lw:96:LEU:HD13	1.72	0.70
2:lZ:226:LEU:HD22	2:lZ:270:LEU:HD22	1.73	0.70
2:lZ:262:ASN:HA	2:lZ:295:VAL:HG22	1.72	0.70
2:mi:221:PHE:CD1	2:mi:242:VAL:HG22	2.26	0.70
2:mP:226:LEU:HD22	2:mP:270:LEU:HD22	1.73	0.70
1:nk:90:LEU:O	1:nk:94:GLU:N	2.24	0.70
2:nl:85:GLY:O	2:oG:2:ALA:N	2.24	0.70
2:nA:106:MET:HG3	2:nA:184:TYR:HD1	1.54	0.70
2:ob:174:ASP:OD1	2:ob:214:ARG:NH2	2.25	0.70
2:op:85:GLY:O	2:pY:2:ALA:N	2.24	0.70
2:ou:243:TYR:OH	2:ou:291:ASN:ND2	2.24	0.70
2:ou:281:GLN:N	2:ou:281:GLN:OE1	2.24	0.70
2:oG:174:ASP:OD1	2:oG:214:ARG:NH2	2.23	0.70
2:oI:243:TYR:OH	2:oI:291:ASN:ND2	2.24	0.70
2:oW:18:LYS:HE2	2:oW:96:LEU:HD13	1.72	0.70
1:pe:90:LEU:O	1:pe:94:GLU:N	2.24	0.70
2:pk:243:TYR:OH	2:pk:291:ASN:ND2	2.24	0.70
2:pt:174:ASP:OD1	2:pt:214:ARG:NH2	2.25	0.70
2:pw:2:ALA:N	2:pH:85:GLY:O	2.24	0.70
2:py:18:LYS:HE2	2:py:96:LEU:HD13	1.72	0.70
2:pI:106:MET:HG3	2:pI:184:TYR:HD1	1.54	0.70
2:qa:281:GLN:N	2:qa:281:GLN:OE1	2.24	0.70
3:qf:64:GLY:O	4:qk:220:SER:C	2.34	0.70
4:qn:214:GLN:O	4:qo:38:GLN:HA	1.91	0.70
6:qq:58:LEU:CB	6:qM:112:LEU:HD21	2.20	0.70
5:qr:394:ILE:HD11	5:qt:405:ILE:HG23	1.68	0.70
6:qA:48:ILE:HG21	6:qA:67:LEU:HD11	1.74	0.70
6:qG:8:ASP:CA	6:qI:39:ARG:HH12	2.04	0.70
5:qH:398:TRP:CH2	5:qJ:405:ILE:CD1	2.72	0.70
5:qJ:248:LYS:NZ	6:qM:121:VAL:HG11	2.05	0.70
1:ab:99:LEU:CD1	1:ng:60:ARG:NH1	2.25	0.70
2:al:281:GLN:N	2:al:281:GLN:OE1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:am:262:ASN:HA	2:am:295:VAL:HG22	1.71	0.70
2:aw:81:GLU:O	2:az:57:ARG:N	2.24	0.70
2:aV:174:ASP:OD1	2:aV:214:ARG:NH2	2.25	0.70
2:aW:221:PHE:CD1	2:aW:242:VAL:HG22	2.26	0.70
2:aY:167:GLY:N	2:aY:262:ASN:OD1	2.24	0.70
1:be:99:LEU:HD22	1:iR:102:GLU:HB2	1.74	0.70
1:bi:90:LEU:O	1:bi:94:GLU:N	2.24	0.70
2:bm:167:GLY:N	2:bm:262:ASN:OD1	2.24	0.70
2:bo:243:TYR:OH	2:bo:291:ASN:ND2	2.24	0.70
1:bv:103:ARG:NE	2:dI:61:GLY:HA2	2.06	0.70
2:by:221:PHE:CD1	2:by:242:VAL:HG22	2.26	0.70
1:bJ:99:LEU:HD21	1:hB:60:ARG:CD	2.18	0.70
2:bL:174:ASP:OD1	2:bL:214:ARG:NH2	2.25	0.70
1:bT:102:GLU:HB2	1:eR:99:LEU:HD22	1.73	0.70
2:ce:226:LEU:HD22	2:ce:270:LEU:HD22	1.73	0.70
2:cn:221:PHE:CD1	2:cn:242:VAL:HG22	2.26	0.70
2:co:196:THR:HG23	2:jn:205:MET:HE1	1.72	0.70
2:cp:167:GLY:N	2:cp:262:ASN:OD1	2.24	0.70
1:cv:102:GLU:HB2	1:pC:99:LEU:HD22	1.73	0.70
1:cy:103:ARG:NE	2:nR:61:GLY:HA2	2.06	0.70
2:cR:167:GLY:N	2:cR:262:ASN:OD1	2.24	0.70
2:cR:205:MET:HE1	2:iK:196:THR:HG23	1.72	0.70
2:dg:61:GLY:HA2	1:fi:103:ARG:NE	2.06	0.70
1:eb:99:LEU:HD22	1:ft:102:GLU:HB2	1.73	0.70
1:eC:99:LEU:CD1	1:gO:102:GLU:CD	2.60	0.70
2:fp:18:LYS:HE2	2:fp:96:LEU:HD13	1.72	0.70
1:fx:90:LEU:O	1:fx:94:GLU:N	2.24	0.70
2:fy:85:GLY:O	2:no:2:ALA:N	2.24	0.70
2:fB:2:ALA:N	2:mh:85:GLY:O	2.24	0.70
1:fH:95:SER:OG	1:fH:96:ASP:OD1	2.07	0.70
1:fK:102:GLU:CD	1:kv:99:LEU:CD1	2.60	0.70
2:fM:85:GLY:O	2:IW:2:ALA:N	2.24	0.70
2:fM:174:ASP:OD1	2:fM:214:ARG:NH2	2.25	0.70
2:fP:174:ASP:OD1	2:fP:214:ARG:NH2	2.23	0.70
1:fT:102:GLU:OE2	1:fZ:99:LEU:HG	1.74	0.70
2:gu:226:LEU:HD22	2:gu:270:LEU:HD22	1.73	0.70
2:gF:81:GLU:O	2:gI:57:ARG:N	2.24	0.70
2:gH:243:TYR:OH	2:gH:291:ASN:ND2	2.24	0.70
2:gT:2:ALA:N	2:IT:85:GLY:O	2.24	0.70
1:hd:101:VAL:CG1	2:lG:198:GLU:CD	2.58	0.70
2:hs:174:ASP:OD1	2:hs:214:ARG:NH2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hK:226:LEU:HD22	2:hK:270:LEU:HD22	1.73	0.70
2:hV:167:GLY:N	2:hV:262:ASN:OD1	2.24	0.70
2:ih:221:PHE:CD1	2:ih:242:VAL:HG22	2.26	0.70
1:ip:60:ARG:NE	1:lm:99:LEU:CG	2.53	0.70
1:ip:102:GLU:HB2	1:lm:99:LEU:HD22	1.74	0.70
2:iZ:167:GLY:N	2:iZ:262:ASN:OD1	2.24	0.70
2:jB:167:GLY:N	2:jB:262:ASN:OD1	2.24	0.70
2:jC:61:GLY:HA2	1:lD:103:ARG:NE	2.06	0.70
1:jH:60:ARG:NE	1:ok:99:LEU:CG	2.53	0.70
2:jM:174:ASP:OD1	2:jM:214:ARG:NH2	2.25	0.70
2:jR:243:TYR:OH	2:jR:291:ASN:ND2	2.24	0.70
2:kg:262:ASN:HA	2:kg:295:VAL:HG22	1.71	0.70
2:kt:181:PRO:HB2	5:qD:175:ASP:C	2.16	0.70
2:kD:196:THR:HG23	2:lW:205:MET:HE1	1.72	0.70
1:lb:100:LYS:HE3	1:nf:100:LYS:HG2	1.71	0.70
2:ld:85:GLY:O	2:mM:2:ALA:N	2.24	0.70
2:lg:81:GLU:O	2:lj:57:ARG:N	2.25	0.70
2:lg:186:GLU:O	2:lH:191:SER:OG	2.08	0.70
2:II:167:GLY:N	2:II:262:ASN:OD1	2.24	0.70
2:mn:262:ASN:HA	2:mn:295:VAL:HG22	1.71	0.70
1:mI:90:LEU:O	1:mI:94:GLU:N	2.24	0.70
2:mO:281:GLN:N	2:mO:281:GLN:OE1	2.24	0.70
2:nc:243:TYR:OH	2:nc:291:ASN:ND2	2.24	0.70
2:nq:18:LYS:HE2	2:nq:96:LEU:HD13	1.72	0.70
2:nE:243:TYR:OH	2:nE:291:ASN:ND2	2.24	0.70
2:nQ:2:ALA:N	2:ob:85:GLY:O	2.24	0.70
2:nS:18:LYS:HE2	2:nS:96:LEU:HD13	1.72	0.70
1:oo:90:LEU:O	1:oo:94:GLU:N	2.24	0.70
2:oR:174:ASP:OD1	2:oR:214:ARG:NH2	2.25	0.70
6:qq:121:VAL:CG2	5:qL:245:ASP:CG	2.64	0.70
5:qB:380:MET:HE2	5:qB:403:LEU:HD21	1.73	0.70
6:qC:48:ILE:HG21	6:qC:67:LEU:HD11	1.74	0.70
6:qE:112:LEU:HD21	6:qG:58:LEU:CB	2.20	0.70
5:qF:245:ASP:CG	6:qI:121:VAL:CG2	2.64	0.70
1:ab:102:GLU:HB2	1:mE:99:LEU:HD22	1.73	0.70
1:ac:60:ARG:CD	1:oP:99:LEU:HD21	2.18	0.70
2:al:18:LYS:HE2	2:al:96:LEU:HD13	1.72	0.70
2:ax:61:GLY:HA2	1:gm:103:ARG:NE	2.06	0.70
1:aF:103:ARG:NE	2:nb:61:GLY:HA2	2.06	0.70
2:aM:18:LYS:HE2	2:aM:96:LEU:HD13	1.72	0.70
2:aM:281:GLN:N	2:aM:281:GLN:OE1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aP:100:LYS:HG2	1:pr:100:LYS:HE3	1.71	0.70
2:aY:205:MET:HE1	2:jm:196:THR:HG23	1.72	0.70
2:ba:243:TYR:OH	2:ba:291:ASN:ND2	2.24	0.70
1:bX:90:LEU:O	1:bX:94:GLU:N	2.24	0.70
1:ch:99:LEU:CD1	1:jf:60:ARG:CD	2.44	0.70
1:cy:99:LEU:HA	2:pi:197:LYS:CD	2.13	0.70
2:dc:174:ASP:OD1	2:dc:214:ARG:NH2	2.25	0.70
2:df:167:GLY:N	2:df:262:ASN:OD1	2.24	0.70
2:du:61:GLY:HA2	1:km:103:ARG:NE	2.06	0.70
2:dE:85:GLY:O	2:eZ:2:ALA:N	2.24	0.70
2:dS:174:ASP:OD1	2:dS:214:ARG:NH2	2.25	0.70
1:eb:60:ARG:NE	1:nW:99:LEU:CG	2.53	0.70
1:ee:99:LEU:HA	2:nC:197:LYS:CD	2.13	0.70
1:ee:103:ARG:NE	2:ml:61:GLY:HA2	2.06	0.70
2:em:262:ASN:HA	2:em:295:VAL:HG22	1.71	0.70
1:ep:99:LEU:CG	1:nI:60:ARG:NE	2.53	0.70
2:eu:174:ASP:OD1	2:eu:214:ARG:NH2	2.25	0.70
2:ex:174:ASP:OD1	2:ex:214:ARG:NH2	2.23	0.70
1:eU:103:ARG:NE	2:iM:61:GLY:HA2	2.06	0.70
2:fb:281:GLN:N	2:fb:281:GLN:OE1	2.24	0.70
2:fD:18:LYS:HE2	2:fD:96:LEU:HD13	1.72	0.70
1:fH:60:ARG:NE	1:mq:99:LEU:CG	2.53	0.70
1:fY:103:ARG:NE	2:mz:61:GLY:HA2	2.06	0.70
1:gj:102:GLU:HB2	1:gL:99:LEU:HD22	1.73	0.70
1:gn:90:LEU:O	1:gn:94:GLU:N	2.24	0.70
2:gt:281:GLN:OE1	2:gt:281:GLN:N	2.24	0.70
2:gV:18:LYS:HE2	2:gV:96:LEU:HD13	1.72	0.70
2:he:85:GLY:O	2:II:2:ALA:N	2.24	0.70
2:hx:262:ASN:HA	2:hx:295:VAL:HG22	1.71	0.70
2:hV:174:ASP:OD1	2:hV:214:ARG:NH2	2.23	0.70
2:hY:226:LEU:HD22	2:hY:270:LEU:HD22	1.73	0.70
2:iN:18:LYS:HE2	2:iN:96:LEU:HD13	1.72	0.70
2:iX:221:PHE:CD1	2:iX:242:VAL:HG22	2.26	0.70
2:iY:191:SER:OG	2:kq:186:GLU:O	2.08	0.70
2:iZ:2:ALA:N	2:jk:85:GLY:O	2.24	0.70
2:jq:262:ASN:HA	2:jq:295:VAL:HG22	1.72	0.70
2:jy:174:ASP:OD1	2:jy:214:ARG:NH2	2.25	0.70
2:jA:196:THR:HG23	2:na:205:MET:HE1	1.72	0.70
2:kg:226:LEU:HD22	2:kg:270:LEU:HD22	1.73	0.70
2:ko:174:ASP:OD1	2:ko:214:ARG:NH2	2.25	0.70
2:kE:2:ALA:N	2:kP:85:GLY:O	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kQ:221:PHE:CD1	2:kQ:242:VAL:HG22	2.26	0.70
2:lr:174:ASP:OD1	2:lr:214:ARG:NH2	2.25	0.70
2:mN:61:GLY:HA2	1:oP:103:ARG:NE	2.06	0.70
2:oc:52:GLN:N	2:oc:52:GLN:OE1	2.23	0.70
2:oh:226:LEU:HD22	2:oh:270:LEU:HD22	1.73	0.70
2:os:167:GLY:N	2:os:262:ASN:OD1	2.24	0.70
2:oU:167:GLY:N	2:oU:262:ASN:OD1	2.24	0.70
2:pK:167:GLY:N	2:pK:262:ASN:OD1	2.24	0.70
2:pN:226:LEU:HD22	2:pN:270:LEU:HD22	1.73	0.70
2:pN:262:ASN:HA	2:pN:295:VAL:HG22	1.72	0.70
2:pV:174:ASP:OD1	2:pV:214:ARG:NH2	2.25	0.70
4:qj:38:GLN:HA	4:qo:214:GLN:O	1.91	0.70
6:qq:39:ARG:HH12	6:qM:8:ASP:CA	2.04	0.70
5:qr:245:ASP:OD2	6:qu:121:VAL:HG23	1.91	0.70
6:qE:8:ASP:CA	6:qG:39:ARG:HH12	2.04	0.70
5:qL:380:MET:HE2	5:qL:403:LEU:HD21	1.73	0.70
2:ai:60:ILE:HG22	1:nX:105:THR:HG21	1.57	0.70
1:ap:99:LEU:HD22	1:hN:102:GLU:HB2	1.73	0.70
1:as:102:GLU:CD	1:gi:99:LEU:CD1	2.60	0.70
2:av:60:ILE:CG2	1:bH:105:THR:CG2	2.62	0.70
1:aQ:60:ARG:NH1	1:jf:99:LEU:CD1	2.25	0.70
2:aW:52:GLN:OE1	2:aW:52:GLN:N	2.24	0.70
2:bQ:103:MET:SD	5:qp:174:ARG:NH2	2.63	0.70
2:cb:2:ALA:N	2:iI:85:GLY:O	2.24	0.70
2:cb:205:MET:HE1	2:eY:196:THR:HG23	1.72	0.70
2:cc:61:GLY:HA2	1:hQ:103:ARG:NE	2.06	0.70
1:ct:100:LYS:CD	1:ps:100:LYS:HZ1	2.05	0.70
2:cG:226:LEU:HD22	2:cG:270:LEU:HD22	1.73	0.70
2:cT:281:GLN:N	2:cT:281:GLN:OE1	2.24	0.70
2:cU:226:LEU:HD22	2:cU:270:LEU:HD22	1.73	0.70
1:db:101:VAL:CG1	2:eJ:198:GLU:CD	2.58	0.70
2:dc:85:GLY:O	2:eL:2:ALA:N	2.24	0.70
2:dr:221:PHE:CD1	2:dr:242:VAL:HG22	2.26	0.70
1:eb:95:SER:OG	1:eb:96:ASP:OD1	2.07	0.70
2:ex:205:MET:HE1	2:ph:196:THR:HG23	1.72	0.70
2:fD:192:PHE:HZ	2:no:196:THR:HG21	1.57	0.70
1:fH:99:LEU:HD22	1:gZ:102:GLU:HB2	1.73	0.70
1:fl:105:THR:CG2	2:gc:60:ILE:CG2	2.62	0.70
2:fR:243:TYR:OH	2:fR:291:ASN:ND2	2.24	0.70
2:gU:294:LEU:HD23	2:gU:295:VAL:HG23	1.71	0.70
1:hl:100:LYS:CG	1:kA:100:LYS:NZ	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hA:60:ARG:NH1	1:lO:99:LEU:CD1	2.25	0.70
2:hF:91:ILE:HD11	5:qx:178:PRO:HD3	1.74	0.70
1:hR:90:LEU:O	1:hR:94:GLU:N	2.24	0.70
2:hX:243:TYR:OH	2:hX:291:ASN:ND2	2.24	0.70
2:ig:174:ASP:OD1	2:ig:214:ARG:NH2	2.25	0.70
2:jn:167:GLY:N	2:jn:262:ASN:OD1	2.24	0.70
1:jt:99:LEU:CG	1:mS:60:ARG:NE	2.53	0.70
1:jL:90:LEU:O	1:jL:94:GLU:N	2.24	0.70
2:jO:197:LYS:HZ1	1:oN:99:LEU:CA	2.01	0.70
2:ks:281:GLN:N	2:ks:281:GLN:OE1	2.24	0.70
2:kE:197:LYS:CD	1:kN:99:LEU:HA	2.13	0.70
2:kS:81:GLU:O	2:kV:57:ARG:N	2.24	0.70
2:lF:174:ASP:OD1	2:lF:214:ARG:NH2	2.25	0.70
2:my:2:ALA:N	2:oD:85:GLY:O	2.24	0.70
2:no:167:GLY:N	2:no:262:ASN:OD1	2.24	0.70
1:nW:95:SER:OG	1:nW:96:ASP:OD1	2.07	0.70
2:oD:174:ASP:OD1	2:oD:214:ARG:NH2	2.25	0.70
2:pi:81:GLU:O	2:pl:57:ARG:N	2.24	0.70
2:py:281:GLN:OE1	2:py:281:GLN:N	2.24	0.70
2:pK:81:GLU:O	2:pN:57:ARG:N	2.24	0.70
2:pY:167:GLY:N	2:pY:262:ASN:OD1	2.24	0.70
3:qd:25:LEU:CD2	6:qu:82:VAL:HB	2.21	0.70
3:qd:65:GLY:O	4:qn:8:TYR:CE2	2.45	0.70
4:qj:189:TYR:CD2	4:qo:218:LEU:HD13	2.26	0.70
4:qn:218:LEU:HD13	4:qo:189:TYR:CD2	2.26	0.70
6:qq:121:VAL:HG22	5:qL:245:ASP:OD1	1.92	0.70
5:qD:252:LEU:CD2	6:qG:126:GLN:CB	2.58	0.70
5:qD:380:MET:HE2	5:qD:403:LEU:HD21	1.73	0.70
2:aj:2:ALA:N	2:oR:85:GLY:O	2.24	0.70
2:au:106:MET:CE	5:qL:176:ASN:O	2.39	0.70
2:aH:174:ASP:OD1	2:aH:214:ARG:NH2	2.25	0.70
2:aK:167:GLY:N	2:aK:262:ASN:OD1	2.24	0.70
1:aT:99:LEU:HA	2:iL:197:LYS:CD	2.13	0.70
1:bd:99:LEU:CD1	1:ji:102:GLU:CD	2.60	0.70
1:bf:100:LYS:N	2:kp:197:LYS:NZ	2.36	0.70
2:bp:226:LEU:HD22	2:bp:270:LEU:HD22	1.73	0.70
2:bA:81:GLU:O	2:bD:57:ARG:N	2.24	0.70
2:bA:167:GLY:N	2:bA:262:ASN:OD1	2.24	0.70
2:bL:63:ARG:NH1	2:bQ:207:ASP:OD1	2.25	0.70
2:cD:2:ALA:N	2:cO:85:GLY:O	2.24	0.70
2:cQ:196:THR:HG23	2:pw:205:MET:HE1	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cR:196:THR:HG21	2:fb:192:PHE:HZ	1.57	0.70
2:dq:63:ARG:NH1	2:dw:207:ASP:OD1	2.25	0.70
2:dq:174:ASP:OD1	2:dq:214:ARG:NH2	2.25	0.70
2:dv:18:LYS:HE2	2:dv:96:LEU:HD13	1.72	0.70
2:dT:221:PHE:CD1	2:dT:242:VAL:HG22	2.26	0.70
2:el:281:GLN:N	2:el:281:GLN:OE1	2.24	0.70
2:eI:174:ASP:OD1	2:eI:214:ARG:NH2	2.25	0.70
2:eJ:221:PHE:CD1	2:eJ:242:VAL:HG22	2.26	0.70
2:eW:174:ASP:OD1	2:eW:214:ARG:NH2	2.25	0.70
1:fj:90:LEU:O	1:fj:94:GLU:N	2.24	0.70
2:fl:198:GLU:CD	1:ny:101:VAL:CG1	2.58	0.70
2:fn:2:ALA:N	2:nz:85:GLY:O	2.24	0.70
2:fB:81:GLU:O	2:fE:57:ARG:N	2.25	0.70
2:gd:205:MET:HE1	2:nB:196:THR:HG23	1.72	0.70
1:gA:103:ARG:NE	2:pj:61:GLY:HA2	2.06	0.70
2:gQ:174:ASP:OD1	2:gQ:214:ARG:NH2	2.25	0.70
2:gT:167:GLY:N	2:gT:262:ASN:OD1	2.24	0.70
2:gV:281:GLN:N	2:gV:281:GLN:OE1	2.24	0.70
2:hT:221:PHE:CD1	2:hT:242:VAL:HG22	2.26	0.70
2:iI:88:ARG:NH2	2:iI:200:ASP:OD1	2.23	0.70
2:iN:243:TYR:OH	2:iN:291:ASN:ND2	2.24	0.70
2:iW:63:ARG:NH1	2:jc:207:ASP:OD1	2.25	0.70
1:jV:60:ARG:NH2	1:mS:99:LEU:CD1	2.52	0.70
2:kf:243:TYR:OH	2:kf:291:ASN:ND2	2.24	0.70
2:ld:174:ASP:OD1	2:ld:214:ARG:NH2	2.25	0.70
2:lf:197:LYS:HZ2	1:oz:99:LEU:C	1.99	0.70
2:lw:243:TYR:OH	2:lw:291:ASN:ND2	2.24	0.70
2:mh:174:ASP:OD1	2:mh:214:ARG:NH2	2.25	0.70
2:mi:184:TYR:HH	2:mi:204:PHE:HD1	1.40	0.70
2:mJ:85:GLY:O	2:os:2:ALA:N	2.24	0.70
2:nO:52:GLN:N	2:nO:52:GLN:OE1	2.23	0.70
2:nT:226:LEU:HD22	2:nT:270:LEU:HD22	1.73	0.70
1:oa:90:LEU:O	1:oa:94:GLU:N	2.24	0.70
2:oe:167:GLY:N	2:oe:262:ASN:OD1	2.24	0.70
2:op:63:ARG:NH1	2:ov:207:ASP:OD1	2.25	0.70
2:op:174:ASP:OD1	2:op:214:ARG:NH2	2.25	0.70
2:pf:174:ASP:OD1	2:pf:214:ARG:NH2	2.25	0.70
1:pG:90:LEU:O	1:pG:94:GLU:N	2.24	0.70
2:qb:226:LEU:HD22	2:qb:270:LEU:HD22	1.73	0.70
3:qh:68:ALA:CA	4:qj:8:TYR:CE2	2.75	0.70
6:qw:8:ASP:CA	6:qy:39:ARG:HH12	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:qy:8:ASP:CA	6:qA:39:ARG:HH12	2.04	0.70
6:qE:48:ILE:HG21	6:qE:67:LEU:HD11	1.74	0.70
5:qJ:245:ASP:OD1	6:qM:121:VAL:HG22	1.92	0.70
1:as:99:LEU:HD21	1:bH:60:ARG:CD	2.18	0.70
2:au:174:ASP:OD1	2:au:214:ARG:NH2	2.25	0.70
2:az:103:MET:CG	5:qJ:32:PHE:HD2	2.02	0.70
2:aM:192:PHE:HZ	2:kd:196:THR:HG21	1.57	0.70
1:aU:90:LEU:O	1:aU:94:GLU:N	2.24	0.70
2:aV:63:ARG:NH1	2:bb:207:ASP:OD1	2.25	0.70
2:bk:221:PHE:CD1	2:bk:242:VAL:HG22	2.26	0.70
2:bP:18:LYS:HE2	2:bP:96:LEU:HD13	1.72	0.70
2:cR:2:ALA:N	2:eW:85:GLY:O	2.24	0.70
2:dd:221:PHE:CD1	2:dd:242:VAL:HG22	2.26	0.70
2:df:81:GLU:O	2:di:57:ARG:N	2.25	0.70
2:dt:167:GLY:N	2:dt:262:ASN:OD1	2.24	0.70
1:dz:60:ARG:NH1	1:gx:99:LEU:CD1	2.26	0.70
2:dF:52:GLN:N	2:dF:52:GLN:OE1	2.24	0.70
2:dU:60:ILE:CG2	1:oN:105:THR:CG2	2.62	0.70
2:dX:281:GLN:N	2:dX:281:GLN:OE1	2.24	0.70
2:ej:196:THR:HG21	2:ez:192:PHE:HZ	1.57	0.70
2:ex:167:GLY:N	2:ex:262:ASN:OD1	2.24	0.70
1:eH:90:LEU:O	1:eH:94:GLU:N	2.24	0.70
2:fa:61:GLY:HA2	1:iG:103:ARG:NE	2.06	0.70
2:fp:243:TYR:OH	2:fp:291:ASN:ND2	2.24	0.70
1:gM:105:THR:CG2	2:IV:60:ILE:CG2	2.62	0.70
2:hi:61:GLY:HA2	1:oB:103:ARG:NE	2.06	0.70
2:hw:243:TYR:OH	2:hw:291:ASN:ND2	2.24	0.70
2:hF:63:ARG:NH1	2:hK:207:ASP:OD1	2.25	0.70
1:iq:99:LEU:C	2:lt:197:LYS:HZ2	1.99	0.70
1:iD:60:ARG:NH2	1:po:99:LEU:CD1	2.52	0.70
2:jn:196:THR:HG21	2:lw:192:PHE:HZ	1.57	0.70
2:jy:63:ARG:NH1	2:jE:207:ASP:OD1	2.25	0.70
1:jH:102:GLU:HB2	1:ok:99:LEU:HD22	1.74	0.70
2:jP:81:GLU:O	2:jS:57:ARG:N	2.24	0.70
2:kC:221:PHE:CD1	2:kC:242:VAL:HG22	2.26	0.70
2:kS:196:THR:HG21	2:nc:192:PHE:HZ	1.57	0.70
2:lf:60:ILE:CG2	1:mF:105:THR:CG2	2.62	0.70
1:lm:60:ARG:NE	1:pQ:99:LEU:CG	2.53	0.70
1:lq:90:LEU:O	1:lq:94:GLU:N	2.24	0.70
2:lu:186:GLU:O	2:pX:191:SER:OG	2.08	0.70
1:mH:99:LEU:HD21	1:ol:60:ARG:CD	2.18	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mX:63:ARG:NH1	2:nd:207:ASP:OD1	2.25	0.70
2:mY:221:PHE:CD1	2:mY:242:VAL:HG22	2.26	0.70
2:nN:174:ASP:OD1	2:nN:214:ARG:NH2	2.25	0.70
2:nO:221:PHE:CD1	2:nO:242:VAL:HG22	2.26	0.70
2:oe:81:GLU:O	2:oh:57:ARG:N	2.24	0.70
2:ov:226:LEU:HD22	2:ov:270:LEU:HD22	1.73	0.70
1:oQ:90:LEU:O	1:oQ:94:GLU:N	2.24	0.70
2:pg:221:PHE:CD1	2:pg:242:VAL:HG22	2.26	0.70
2:pu:198:GLU:CD	1:pG:101:VAL:CG1	2.58	0.70
2:pH:63:ARG:NH1	2:pN:207:ASP:OD1	2.25	0.70
5:qr:245:ASP:OD1	6:qu:121:VAL:HG22	1.92	0.70
5:qt:252:LEU:HD22	6:qw:126:GLN:HG3	1.69	0.70
5:qt:380:MET:HE2	5:qt:403:LEU:HD21	1.73	0.70
5:qH:252:LEU:HD22	6:qK:126:GLN:HG2	1.72	0.70
5:qJ:252:LEU:HD22	6:qM:126:GLN:HG2	1.72	0.70
2:bk:198:GLU:CD	1:dp:101:VAL:CG1	2.58	0.70
2:bl:196:THR:HG23	2:iZ:205:MET:HE1	1.72	0.70
1:bv:99:LEU:HD21	1:cY:60:ARG:CD	2.18	0.70
2:bL:85:GLY:O	2:hH:2:ALA:N	2.24	0.70
1:ch:99:LEU:CD1	1:jf:60:ARG:NH1	2.25	0.70
1:cz:90:LEU:O	1:cz:94:GLU:N	2.24	0.70
2:cD:167:GLY:N	2:cD:262:ASN:OD1	2.24	0.70
1:cJ:99:LEU:HD22	1:po:102:GLU:HB2	1.73	0.70
2:dc:63:ARG:NH1	2:di:207:ASP:OD1	2.25	0.70
1:dD:99:LEU:HG	1:fd:102:GLU:OE2	1.74	0.70
1:dD:101:VAL:CG1	2:eX:198:GLU:CD	2.58	0.70
2:dH:205:MET:HE1	2:gE:196:THR:HG23	1.72	0.70
1:dQ:99:LEU:HA	2:oU:197:LYS:CD	2.13	0.70
1:dR:101:VAL:CG1	2:oS:198:GLU:CD	2.58	0.70
1:ff:102:GLU:HB2	1:ib:99:LEU:HD22	1.73	0.70
2:fp:281:GLN:N	2:fp:281:GLN:OE1	2.24	0.70
2:fz:221:PHE:CD1	2:fz:242:VAL:HG22	2.26	0.70
2:fB:174:ASP:OD1	2:fB:214:ARG:NH2	2.23	0.70
2:go:174:ASP:OD1	2:go:214:ARG:NH2	2.25	0.70
2:gC:174:ASP:OD1	2:gC:214:ARG:NH2	2.25	0.70
2:gH:281:GLN:OE1	2:gH:281:GLN:N	2.24	0.70
1:gP:100:LYS:HZ1	1:in:100:LYS:CD	2.05	0.70
1:gZ:99:LEU:HD22	1:mq:102:GLU:HB2	1.74	0.70
1:ho:60:ARG:CD	1:hD:99:LEU:HD21	2.18	0.70
2:ij:167:GLY:N	2:ij:262:ASN:OD1	2.24	0.70
2:il:281:GLN:OE1	2:il:281:GLN:N	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:it:101:VAL:CG1	2:jN:198:GLU:CD	2.58	0.70
2:iv:52:GLN:N	2:iv:52:GLN:OE1	2.23	0.70
2:iZ:174:ASP:OD1	2:iZ:214:ARG:NH2	2.23	0.70
2:jQ:226:LEU:HD22	2:jQ:270:LEU:HD22	1.73	0.70
1:jY:103:ARG:NE	2:pZ:61:GLY:HA2	2.06	0.70
2:ka:174:ASP:OD1	2:ka:214:ARG:NH2	2.25	0.70
2:kb:52:GLN:N	2:kb:52:GLN:OE1	2.24	0.70
2:kb:106:MET:HG3	2:kb:184:TYR:HD1	1.54	0.70
1:kw:99:LEU:HD22	1:lO:102:GLU:HB2	1.73	0.70
2:kB:63:ARG:NH1	2:kH:207:ASP:OD1	2.25	0.70
2:kS:2:ALA:N	2:mX:85:GLY:O	2.24	0.70
2:kU:243:TYR:OH	2:kU:291:ASN:ND2	2.24	0.70
1:lb:102:GLU:CD	1:nf:99:LEU:CD1	2.60	0.70
1:lm:102:GLU:HB2	1:pQ:99:LEU:HD22	1.73	0.70
1:lA:60:ARG:NH1	1:oy:99:LEU:CD1	2.25	0.70
2:lK:281:GLN:OE1	2:lK:281:GLN:N	2.24	0.70
2:IY:171:TYR:HH	2:IY:175:THR:HG1	1.36	0.70
1:nU:102:GLU:OE2	1:oa:99:LEU:HG	1.74	0.70
2:oQ:221:PHE:CD1	2:oQ:242:VAL:HG22	2.26	0.70
2:oU:81:GLU:O	2:oX:57:ARG:N	2.25	0.70
2:pw:167:GLY:N	2:pw:262:ASN:OD1	2.24	0.70
1:pU:90:LEU:O	1:pU:94:GLU:N	2.24	0.70
3:qd:65:GLY:CA	4:qn:10:GLN:NE2	2.54	0.70
3:qd:133:ALA:HB3	3:qd:138:TYR:CD2	2.27	0.70
4:qk:218:LEU:HD13	4:ql:189:TYR:CD2	2.26	0.70
4:ql:89:VAL:CG2	4:qm:245:ASP:HB2	2.21	0.70
6:qq:8:ASP:CA	6:qs:39:ARG:HH12	2.04	0.70
6:qy:48:ILE:HG21	6:qy:67:LEU:HD11	1.74	0.70
5:qz:380:MET:HE2	5:qz:403:LEU:HD21	1.73	0.70
6:qA:8:ASP:CA	6:qC:39:ARG:HH12	2.04	0.70
5:qJ:19:GLU:N	5:qJ:19:GLU:OE1	2.25	0.70
5:qJ:245:ASP:OD2	6:qM:121:VAL:HG23	1.91	0.70
1:ap:60:ARG:NE	1:dl:99:LEU:CG	2.53	0.69
1:aC:99:LEU:HD22	1:kK:102:GLU:HB2	1.74	0.69
2:aI:63:ARG:NE	2:kb:205:MET:HE2	2.07	0.69
1:aT:103:ARG:NE	2:px:61:GLY:HA2	2.06	0.69
2:ba:192:PHE:HZ	2:iL:196:THR:HG21	1.57	0.69
2:bj:63:ARG:NH1	2:bp:207:ASP:OD1	2.25	0.69
2:bC:281:GLN:N	2:bC:281:GLN:OE1	2.24	0.69
1:bG:60:ARG:NH2	1:gj:99:LEU:CD1	2.52	0.69
2:bY:174:ASP:OD1	2:bY:214:ARG:NH2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cq:61:GLY:HA2	1:lp:103:ARG:NE	2.06	0.69
2:cO:63:ARG:NH1	2:cU:207:ASP:OD1	2.25	0.69
1:dp:90:LEU:O	1:dp:94:GLU:N	2.24	0.69
2:dF:221:PHE:CD1	2:dF:242:VAL:HG22	2.26	0.69
2:dV:196:THR:HG21	2:nS:192:PHE:HZ	1.57	0.69
2:dX:192:PHE:HZ	2:oU:196:THR:HG21	1.57	0.69
1:ee:102:GLU:CD	1:mb:99:LEU:CD1	2.60	0.69
2:eg:63:ARG:NH1	2:em:207:ASP:OD1	2.25	0.69
2:eu:63:ARG:NH1	2:eA:207:ASP:OD1	2.25	0.69
2:ex:196:THR:HG21	2:gH:192:PHE:HZ	1.57	0.69
2:fy:63:ARG:NH1	2:fE:207:ASP:OD1	2.25	0.69
2:fy:174:ASP:OD1	2:fy:214:ARG:NH2	2.25	0.69
2:fM:63:ARG:NH1	2:fS:207:ASP:OD1	2.25	0.69
2:fS:226:LEU:HD22	2:fS:270:LEU:HD22	1.73	0.69
2:gT:81:GLU:O	2:gW:57:ARG:N	2.24	0.69
2:hu:167:GLY:N	2:hu:262:ASN:OD1	2.24	0.69
2:hu:196:THR:HG21	2:hJ:192:PHE:HZ	1.57	0.69
2:hX:190:PRO:HG2	5:qx:47:ARG:HD3	1.71	0.69
2:hH:81:GLU:O	2:hK:57:ARG:N	2.25	0.69
2:ix:167:GLY:N	2:ix:262:ASN:OD1	2.24	0.69
2:iA:226:LEU:HD22	2:iA:270:LEU:HD22	1.73	0.69
2:iO:226:LEU:HD22	2:iO:270:LEU:HD22	1.73	0.69
1:iR:99:LEU:CD1	1:kj:60:ARG:NH2	2.52	0.69
2:iW:174:ASP:OD1	2:iW:214:ARG:NH2	2.25	0.69
2:jC:226:LEU:HD22	2:jC:270:LEU:HD22	1.73	0.69
2:jl:221:PHE:CD1	2:jl:242:VAL:HG22	2.26	0.69
2:jP:167:GLY:N	2:jP:262:ASN:OD1	2.24	0.69
2:kd:186:GLU:O	2:mZ:191:SER:OG	2.08	0.69
2:kt:107:GLY:O	5:qD:178:PRO:HD3	1.90	0.69
1:kI:59:VAL:HG12	1:kI:61:ALA:H	1.54	0.69
2:kQ:52:GLN:OE1	2:kQ:52:GLN:N	2.23	0.69
2:kU:18:LYS:HE2	2:kU:96:LEU:HD13	1.72	0.69
1:lb:99:LEU:HD21	1:mF:60:ARG:CD	2.18	0.69
2:ld:63:ARG:NH1	2:lj:207:ASP:OD1	2.25	0.69
2:lh:61:GLY:HA2	1:nj:103:ARG:NE	2.06	0.69
2:II:174:ASP:OD1	2:II:214:ARG:NH2	2.23	0.69
2:IU:52:GLN:N	2:IU:52:GLN:OE1	2.24	0.69
2:IY:18:LYS:HE2	2:IY:96:LEU:HD13	1.72	0.69
1:mc:99:LEU:HD22	1:nu:102:GLU:HB2	1.74	0.69
2:nN:63:ARG:NH1	2:nT:207:ASP:OD1	2.25	0.69
2:oc:221:PHE:CD1	2:oc:242:VAL:HG22	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ok:102:GLU:HB2	1:oM:99:LEU:HD22	1.74	0.69
1:po:95:SER:OG	1:po:96:ASP:OD1	2.07	0.69
2:pt:63:ARG:NH1	2:pz:207:ASP:OD1	2.25	0.69
2:pu:205:MET:HE2	2:pI:63:ARG:NE	2.07	0.69
2:pI:52:GLN:OE1	2:pI:52:GLN:N	2.23	0.69
2:pI:221:PHE:CD1	2:pI:242:VAL:HG22	2.26	0.69
2:pV:63:ARG:NH1	2:qb:207:ASP:OD1	2.25	0.69
3:qg:133:ALA:HB3	3:qg:138:TYR:CD2	2.27	0.69
5:qt:398:TRP:CH2	5:qv:405:ILE:CD1	2.72	0.69
5:qB:245:ASP:OD1	6:qE:121:VAL:HG22	1.92	0.69
5:qH:19:GLU:OE1	5:qH:19:GLU:N	2.25	0.69
5:qH:245:ASP:OD2	6:qK:121:VAL:HG23	1.91	0.69
5:qH:245:ASP:OD1	6:qK:121:VAL:HG22	1.92	0.69
5:qJ:380:MET:HE2	5:qJ:403:LEU:HD21	1.73	0.69
5:qL:19:GLU:N	5:qL:19:GLU:OE1	2.25	0.69
2:ah:221:PHE:CD1	2:ah:242:VAL:HG22	2.26	0.69
1:ao:99:LEU:CD1	1:gm:102:GLU:CD	2.60	0.69
2:ay:192:PHE:HZ	2:bN:196:THR:HG21	1.57	0.69
2:aY:81:GLU:O	2:bb:57:ARG:N	2.24	0.69
2:bx:174:ASP:OD1	2:bx:214:ARG:NH2	2.25	0.69
2:bA:196:THR:HG21	2:hX:192:PHE:HZ	1.57	0.69
2:bY:63:ARG:NH1	2:ce:207:ASP:OD1	2.25	0.69
2:cb:196:THR:HG21	2:iN:192:PHE:HZ	1.57	0.69
1:cg:99:LEU:CD1	1:lp:102:GLU:CD	2.60	0.69
1:ch:99:LEU:HD22	1:jf:102:GLU:HB2	1.73	0.69
1:ci:105:THR:HG21	2:pv:60:ILE:HG23	1.75	0.69
2:cp:174:ASP:OD1	2:cp:214:ARG:NH2	2.23	0.69
1:cv:95:SER:OG	1:cv:96:ASP:OD1	2.07	0.69
2:cD:205:MET:HE1	2:pJ:196:THR:HG23	1.72	0.69
2:cF:192:PHE:HZ	2:pi:196:THR:HG21	1.57	0.69
2:cR:81:GLU:O	2:cU:57:ARG:N	2.25	0.69
2:dd:63:ARG:NE	2:eJ:205:MET:HE2	2.08	0.69
2:dh:243:TYR:OH	2:dh:291:ASN:ND2	2.24	0.69
1:dD:90:LEU:O	1:dD:94:GLU:N	2.24	0.69
2:dF:205:MET:HE2	2:pg:63:ARG:NE	2.08	0.69
2:dK:262:ASN:HA	2:dK:295:VAL:HG22	1.71	0.69
1:ee:99:LEU:CA	2:nC:197:LYS:CD	2.69	0.69
2:ej:167:GLY:N	2:ej:262:ASN:OD1	2.24	0.69
1:eD:102:GLU:HB2	1:ff:99:LEU:HD22	1.74	0.69
1:eE:99:LEU:HA	2:fm:197:LYS:HZ3	1.55	0.69
2:eN:243:TYR:OH	2:eN:291:ASN:ND2	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eX:52:GLN:OE1	2:eX:52:GLN:N	2.23	0.69
2:fn:205:MET:HE1	2:ii:196:THR:HG23	1.72	0.69
2:fz:205:MET:HE2	2:mi:63:ARG:NE	2.08	0.69
2:fA:60:ILE:CG2	1:nh:105:THR:CG2	2.62	0.69
2:fB:167:GLY:N	2:fB:262:ASN:OD1	2.24	0.69
2:gd:2:ALA:N	2:ig:85:GLY:O	2.24	0.69
1:hq:102:GLU:CD	1:iQ:99:LEU:CD1	2.60	0.69
2:hu:2:ALA:N	2:hF:85:GLY:O	2.24	0.69
2:iu:63:ARG:NH1	2:iA:207:ASP:OD1	2.25	0.69
2:iv:221:PHE:CD1	2:iv:242:VAL:HG22	2.26	0.69
2:jk:63:ARG:NH1	2:jq:207:ASP:OD1	2.25	0.69
1:jH:99:LEU:HD22	1:oM:102:GLU:HB2	1.73	0.69
1:kn:90:LEU:O	1:kn:94:GLU:N	2.24	0.69
2:ko:63:ARG:NH1	2:kt:207:ASP:OD1	2.25	0.69
1:kw:99:LEU:CG	1:lO:60:ARG:NE	2.53	0.69
1:kW:102:GLU:OE2	1:mW:99:LEU:HG	1.74	0.69
1:lA:102:GLU:HB2	1:oy:99:LEU:HD22	1.73	0.69
2:lT:174:ASP:OD1	2:lT:214:ARG:NH2	2.25	0.69
2:lU:221:PHE:CD1	2:lU:242:VAL:HG22	2.26	0.69
2:mh:63:ARG:NH1	2:mn:207:ASP:OD1	2.25	0.69
2:mn:226:LEU:HD22	2:mn:270:LEU:HD22	1.73	0.69
2:mv:63:ARG:NH1	2:mB:207:ASP:OD1	2.25	0.69
2:mw:221:PHE:CD1	2:mw:242:VAL:HG22	2.26	0.69
1:mE:102:GLU:HB2	1:ng:99:LEU:HD22	1.74	0.69
2:mJ:174:ASP:OD1	2:mJ:214:ARG:NH2	2.25	0.69
2:mX:174:ASP:OD1	2:mX:214:ARG:NH2	2.25	0.69
2:nc:281:GLN:OE1	2:nc:281:GLN:N	2.24	0.69
1:ok:60:ARG:NH2	1:oM:99:LEU:CD1	2.52	0.69
2:pk:18:LYS:HE2	2:pk:96:LEU:HD13	1.72	0.69
3:qd:66:GLN:CA	4:qn:8:TYR:HD2	2.05	0.69
3:qf:133:ALA:HB3	3:qf:138:TYR:CD2	2.27	0.69
4:qj:218:LEU:HD13	4:qk:189:TYR:CD2	2.26	0.69
4:ql:214:GLN:O	4:qm:38:GLN:HA	1.91	0.69
4:ql:218:LEU:HD13	4:qm:189:TYR:CD2	2.26	0.69
5:qp:245:ASP:OD1	6:qs:121:VAL:HG22	1.92	0.69
5:qv:245:ASP:OD1	6:qy:121:VAL:HG22	1.92	0.69
5:qz:252:LEU:CD2	6:qC:126:GLN:CB	2.58	0.69
6:qC:8:ASP:CA	6:qE:39:ARG:HH12	2.04	0.69
1:aa:99:LEU:CD1	1:fw:102:GLU:CD	2.60	0.69
2:ag:174:ASP:OD1	2:ag:214:ARG:NH2	2.25	0.69
2:au:170:TRP:NE1	5:qJ:175:ASP:O	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aH:63:ARG:NH1	2:aN:207:ASP:OD1	2.25	0.69
1:bh:102:GLU:CD	1:je:99:LEU:CD1	2.60	0.69
1:bs:60:ARG:NE	1:bT:99:LEU:CG	2.53	0.69
2:bZ:221:PHE:CD1	2:bZ:242:VAL:HG22	2.26	0.69
2:cA:63:ARG:NH1	2:cG:207:ASP:OD1	2.25	0.69
2:cO:174:ASP:OD1	2:cO:214:ARG:NH2	2.25	0.69
1:cX:99:LEU:HD22	1:gx:102:GLU:HB2	1.74	0.69
1:dl:60:ARG:NH2	1:hN:99:LEU:CD1	2.52	0.69
1:dR:90:LEU:O	1:dR:94:GLU:N	2.24	0.69
2:em:226:LEU:HD22	2:em:270:LEU:HD22	1.73	0.69
1:en:102:GLU:OE2	1:et:99:LEU:HG	1.74	0.69
1:eD:95:SER:OG	1:eD:96:ASP:OD1	2.07	0.69
2:eI:63:ARG:NH1	2:eO:207:ASP:OD1	2.25	0.69
1:fH:60:ARG:NH1	1:mq:99:LEU:CD1	2.25	0.69
1:gB:90:LEU:O	1:gB:94:GLU:N	2.24	0.69
2:gD:221:PHE:CD1	2:gD:242:VAL:HG22	2.26	0.69
2:gQ:85:GLY:O	2:ij:2:ALA:N	2.24	0.69
2:hh:2:ALA:N	2:kB:85:GLY:O	2.24	0.69
2:hh:81:GLU:O	2:hk:57:ARG:N	2.24	0.69
2:hF:172:LEU:HD13	5:qv:176:ASN:HB3	1.73	0.69
2:hS:174:ASP:OD1	2:hS:214:ARG:NH2	2.25	0.69
2:iI:174:ASP:OD1	2:iI:214:ARG:NH2	2.25	0.69
1:jL:100:LYS:HZ1	1:pO:100:LYS:HG2	1.53	0.69
2:jN:221:PHE:CD1	2:jN:242:VAL:HG22	2.26	0.69
2:kB:174:ASP:OD1	2:kB:214:ARG:NH2	2.25	0.69
1:kO:90:LEU:O	1:kO:94:GLU:N	2.24	0.69
2:mm:281:GLN:OE1	2:mm:281:GLN:N	2.24	0.69
2:mv:174:ASP:OD1	2:mv:214:ARG:NH2	2.25	0.69
2:mJ:63:ARG:NH1	2:mP:207:ASP:OD1	2.25	0.69
2:nl:63:ARG:NH1	2:nr:207:ASP:OD1	2.25	0.69
2:nq:192:PHE:HZ	2:oG:196:THR:HG21	1.57	0.69
2:nC:81:GLU:O	2:nF:57:ARG:N	2.25	0.69
2:nF:226:LEU:HD22	2:nF:270:LEU:HD22	1.73	0.69
1:nM:90:LEU:O	1:nM:94:GLU:N	2.24	0.69
2:oS:221:PHE:CD1	2:oS:242:VAL:HG22	2.26	0.69
2:pl:226:LEU:HD22	2:pl:270:LEU:HD22	1.73	0.69
3:qh:133:ALA:HB3	3:qh:138:TYR:CD2	2.27	0.69
5:qp:19:GLU:N	5:qp:19:GLU:OE1	2.25	0.69
6:qu:8:ASP:CA	6:qw:39:ARG:HH12	2.04	0.69
5:qz:105:ASP:OD1	5:qz:355:ARG:NH1	2.23	0.69
6:qG:48:ILE:HG21	6:qG:67:LEU:HD11	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aj:81:GLU:O	2:am:57:ARG:N	2.24	0.69
2:aI:198:GLU:CD	1:iV:101:VAL:CG1	2.58	0.69
2:aI:221:PHE:CD1	2:aI:242:VAL:HG22	2.26	0.69
1:bs:99:LEU:HD22	1:eR:102:GLU:HB2	1.73	0.69
2:bz:60:ILE:HG23	1:cY:105:THR:HG21	1.75	0.69
2:bD:226:LEU:HD22	2:bD:270:LEU:HD22	1.73	0.69
2:bP:192:PHE:HZ	2:hH:196:THR:HG21	1.57	0.69
1:bS:99:LEU:CD1	1:hQ:102:GLU:CD	2.60	0.69
2:cd:192:PHE:HZ	2:dt:196:THR:HG21	1.57	0.69
2:cn:205:MET:HE2	2:pu:63:ARG:NE	2.08	0.69
1:cw:60:ARG:CD	1:cM:99:LEU:HD21	2.18	0.69
2:dE:174:ASP:OD1	2:dE:214:ARG:NH2	2.25	0.69
2:dF:63:ARG:NE	2:eX:205:MET:HE2	2.08	0.69
2:dT:205:MET:HE2	2:nO:63:ARG:NE	2.08	0.69
2:eh:205:MET:HE2	2:ev:63:ARG:NE	2.08	0.69
2:eh:221:PHE:CD1	2:eh:242:VAL:HG22	2.26	0.69
2:ei:197:LYS:HZ2	1:fu:99:LEU:C	2.01	0.69
2:fb:18:LYS:HE2	2:fb:96:LEU:HD13	1.72	0.69
2:fc:226:LEU:HD22	2:fc:270:LEU:HD22	1.73	0.69
2:fp:192:PHE:HZ	2:gF:196:THR:HG21	1.57	0.69
1:fw:99:LEU:HD21	1:nh:60:ARG:CD	2.18	0.69
2:fN:63:ARG:NE	2:IU:205:MET:HE2	2.08	0.69
2:gp:52:GLN:OE1	2:gp:52:GLN:N	2.23	0.69
2:gp:63:ARG:NE	2:hT:205:MET:HE2	2.08	0.69
1:hc:103:ARG:NE	2:oH:61:GLY:HA2	2.06	0.69
2:hg:191:SER:OG	2:my:186:GLU:O	2.08	0.69
1:ho:99:LEU:C	2:kR:197:LYS:HZ2	2.01	0.69
2:hx:226:LEU:HD22	2:hx:270:LEU:HD22	1.73	0.69
2:hF:174:ASP:OD1	2:hF:214:ARG:NH2	2.25	0.69
2:hT:52:GLN:N	2:hT:52:GLN:OE1	2.23	0.69
1:is:99:LEU:HD21	1:jI:60:ARG:CD	2.18	0.69
2:ix:81:GLU:O	2:iA:57:ARG:N	2.25	0.69
2:iZ:81:GLU:O	2:jC:57:ARG:N	2.24	0.69
1:jR:100:LYS:CG	1:lq:100:LYS:NZ	2.40	0.69
1:ju:105:THR:CG2	2:pX:60:ILE:CG2	2.62	0.69
2:jR:171:TYR:HH	2:jR:175:THR:HG1	1.32	0.69
1:kA:90:LEU:O	1:kA:94:GLU:N	2.24	0.69
1:kW:100:LYS:CD	1:mW:100:LYS:HZ1	2.05	0.69
2:lF:63:ARG:NH1	2:lL:207:ASP:OD1	2.25	0.69
2:mk:167:GLY:N	2:mk:262:ASN:OD1	2.24	0.69
2:mO:192:PHE:HZ	2:os:196:THR:HG21	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:nJ:105:THR:CG2	2:od:60:ILE:CG2	2.62	0.69
1:ol:99:LEU:CA	2:ot:197:LYS:HZ1	2.05	0.69
2:os:81:GLU:O	2:ov:57:ARG:N	2.24	0.69
2:or:63:ARG:NH1	2:ox:207:ASP:OD1	2.25	0.69
2:ph:174:ASP:OD1	2:ph:214:ARG:NH2	2.25	0.69
3:qg:64:GLY:C	4:qj:219:ILE:HG23	2.10	0.69
3:qh:68:ALA:CB	4:qj:8:TYR:OH	2.40	0.69
5:qz:245:ASP:OD1	6:qC:121:VAL:HG22	1.92	0.69
5:qF:19:GLU:OE1	5:qF:19:GLU:N	2.25	0.69
5:qF:252:LEU:HD22	6:qI:126:GLN:HG3	1.69	0.69
5:qF:380:MET:HE2	5:qF:403:LEU:HD21	1.73	0.69
2:aI:106:MET:HG3	2:aI:184:TYR:HD1	1.54	0.69
1:aQ:102:GLU:HB2	1:jf:99:LEU:HD22	1.74	0.69
1:aR:60:ARG:CD	1:bh:99:LEU:HD21	2.18	0.69
1:bs:60:ARG:NH2	1:bT:99:LEU:CD1	2.52	0.69
1:bs:99:LEU:CG	1:eR:60:ARG:NE	2.53	0.69
2:bx:63:ARG:NH1	2:bD:207:ASP:OD1	2.25	0.69
2:bM:60:ILE:HG23	1:hB:105:THR:HG21	1.75	0.69
2:cm:174:ASP:OD1	2:cm:214:ARG:NH2	2.25	0.69
1:cv:60:ARG:NE	1:pC:99:LEU:CG	2.53	0.69
1:cN:90:LEU:O	1:cN:94:GLU:N	2.24	0.69
2:dh:192:PHE:HZ	2:eL:196:THR:HG21	1.57	0.69
1:dl:102:GLU:HB2	1:hN:99:LEU:HD22	1.73	0.69
1:dz:60:ARG:NE	1:gx:99:LEU:CG	2.53	0.69
2:dH:167:GLY:N	2:dH:262:ASN:OD1	2.24	0.69
2:dT:63:ARG:NE	2:oS:205:MET:HE2	2.08	0.69
1:eq:99:LEU:C	2:ph:197:LYS:HZ2	1.99	0.69
2:ev:221:PHE:CD1	2:ev:242:VAL:HG22	2.26	0.69
2:ez:18:LYS:HE2	2:ez:96:LEU:HD13	1.72	0.69
2:fz:63:ARG:NE	2:nm:205:MET:HE2	2.08	0.69
2:fP:167:GLY:N	2:fP:262:ASN:OD1	2.24	0.69
2:fP:197:LYS:CD	1:fY:99:LEU:CA	2.68	0.69
2:go:63:ARG:NH1	2:gu:207:ASP:OD1	2.25	0.69
2:gr:167:GLY:N	2:gr:262:ASN:OD1	2.24	0.69
2:gI:226:LEU:HD22	2:gI:270:LEU:HD22	1.73	0.69
2:gT:196:THR:HG21	2:lY:192:PHE:HZ	1.57	0.69
2:hF:52:GLN:OE1	2:hF:52:GLN:N	2.23	0.69
2:hu:81:GLU:O	2:hX:57:ARG:N	2.24	0.69
2:hX:184:TYR:CE2	5:qz:30:LYS:O	2.46	0.69
1:hA:102:GLU:HB2	1:lO:99:LEU:HD22	1.73	0.69
2:ij:81:GLU:O	2:im:57:ARG:N	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iu:174:ASP:OD1	2:iu:214:ARG:NH2	2.25	0.69
2:iv:141:HIS:NE2	2:iv:150:THR:OG1	2.26	0.69
2:iI:63:ARG:NH1	2:iO:207:ASP:OD1	2.25	0.69
2:iL:81:GLU:O	2:iO:57:ARG:N	2.24	0.69
1:jj:90:LEU:O	1:jj:94:GLU:N	2.24	0.69
1:ju:105:THR:HG21	2:pX:60:ILE:HG23	1.75	0.69
2:jz:198:GLU:CD	1:pU:101:VAL:CG1	2.58	0.69
1:kx:60:ARG:CD	1:kN:99:LEU:HD21	2.18	0.69
2:kC:106:MET:HG3	2:kC:184:TYR:HD1	1.54	0.69
1:kY:102:GLU:HB2	1:lA:99:LEU:HD22	1.73	0.69
2:lI:81:GLU:O	2:lL:57:ARG:N	2.24	0.69
1:lO:95:SER:OG	1:lO:96:ASP:OD1	2.07	0.69
2:mA:281:GLN:OE1	2:mA:281:GLN:N	2.24	0.69
1:nI:99:LEU:CD1	1:pa:60:ARG:CD	2.44	0.69
2:nQ:196:THR:HG21	2:og:192:PHE:HZ	1.57	0.69
2:nQ:197:LYS:CD	1:nZ:99:LEU:CA	2.69	0.69
2:ob:63:ARG:NH1	2:oh:207:ASP:OD1	2.25	0.69
2:ou:192:PHE:HZ	2:pY:196:THR:HG21	1.57	0.69
3:qe:67:ARG:CA	4:qm:194:LEU:HD13	2.21	0.69
6:qw:112:LEU:CD2	6:qy:58:LEU:CB	2.71	0.69
5:qx:245:ASP:OD1	6:qA:121:VAL:HG22	1.92	0.69
5:qz:245:ASP:OD2	6:qC:121:VAL:HG23	1.91	0.69
2:aK:196:THR:HG21	2:jb:192:PHE:HZ	1.57	0.69
1:aO:100:LYS:CD	1:iV:100:LYS:HZ1	2.06	0.69
2:aX:60:ILE:HG23	1:iE:105:THR:HG21	1.75	0.69
2:bm:196:THR:HG21	2:dv:192:PHE:HZ	1.57	0.69
2:bn:61:GLY:HA2	1:ji:103:ARG:NE	2.06	0.69
2:bD:197:LYS:HA	2:hT:62:GLN:OE1	1.93	0.69
1:bG:102:GLU:HB2	1:gj:99:LEU:HD22	1.74	0.69
2:cb:197:LYS:CD	1:iG:99:LEU:CA	2.69	0.69
1:ck:103:ARG:NE	2:lv:61:GLY:HA2	2.06	0.69
1:cJ:95:SER:OG	1:cJ:96:ASP:OD1	2.07	0.69
2:cP:221:PHE:CD1	2:cP:242:VAL:HG22	2.26	0.69
2:dt:205:MET:HE1	2:hU:196:THR:HG23	1.72	0.69
2:dw:243:TYR:CE1	2:dw:294:LEU:HD21	2.28	0.69
2:dK:226:LEU:HD22	2:dK:270:LEU:HD22	1.73	0.69
2:dX:18:LYS:HE2	2:dX:96:LEU:HD13	1.72	0.69
1:ep:102:GLU:HB2	1:pa:99:LEU:HD22	1.73	0.69
2:ev:205:MET:HE2	2:gD:63:ARG:NE	2.08	0.69
1:eE:100:LYS:N	2:fm:197:LYS:NZ	2.36	0.69
1:fj:101:VAL:CG1	2:gD:198:GLU:CD	2.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fk:174:ASP:OD1	2:fk:214:ARG:NH2	2.25	0.69
2:fl:63:ARG:NE	2:gD:205:MET:HE2	2.07	0.69
1:ft:99:LEU:HD22	1:nW:102:GLU:HB2	1.74	0.69
1:fV:102:GLU:HB2	1:nu:99:LEU:HD22	1.74	0.69
2:ga:63:ARG:NH1	2:gg:207:ASP:OD1	2.25	0.69
2:gp:141:HIS:NE2	2:gp:150:THR:OG1	2.26	0.69
2:gt:192:PHE:HZ	2:hV:196:THR:HG21	1.57	0.69
2:gR:205:MET:HE2	2:lU:63:ARG:NE	2.08	0.69
2:gR:221:PHE:CD1	2:gR:242:VAL:HG22	2.26	0.69
2:he:174:ASP:OD1	2:he:214:ARG:NH2	2.25	0.69
2:hF:63:ARG:NE	2:lG:205:MET:HE2	2.08	0.69
1:hn:60:ARG:NE	1:kK:99:LEU:CG	2.53	0.69
2:im:226:LEU:HD22	2:im:270:LEU:HD22	1.73	0.69
1:jK:99:LEU:HA	2:pK:197:LYS:CD	2.13	0.69
2:ka:63:ARG:NH1	2:kg:207:ASP:OD1	2.25	0.69
1:kw:99:LEU:CD1	1:lO:60:ARG:NH2	2.52	0.69
2:kE:196:THR:HG21	2:kU:192:PHE:HZ	1.57	0.69
2:kH:226:LEU:HD22	2:kH:270:LEU:HD22	1.73	0.69
2:ls:52:GLN:OE1	2:ls:52:GLN:N	2.24	0.69
2:lw:281:GLN:OE1	2:lw:281:GLN:N	2.24	0.69
1:lE:99:LEU:HG	1:ne:102:GLU:OE2	1.74	0.69
2:lT:63:ARG:NH1	2:lZ:207:ASP:OD1	2.25	0.69
1:mg:90:LEU:O	1:mg:94:GLU:N	2.24	0.69
1:mE:60:ARG:NH1	1:ng:99:LEU:CD1	2.26	0.69
2:nn:60:ILE:CG2	1:oz:105:THR:CG2	2.62	0.69
2:nn:60:ILE:HG23	1:oz:105:THR:HG21	1.75	0.69
2:nz:63:ARG:NH1	2:nF:207:ASP:OD1	2.25	0.69
2:nz:174:ASP:OD1	2:nz:214:ARG:NH2	2.25	0.69
2:nO:141:HIS:NE2	2:nO:150:THR:OG1	2.26	0.69
2:nQ:81:GLU:O	2:nT:57:ARG:N	2.24	0.69
2:oq:141:HIS:NE2	2:oq:150:THR:OG1	2.26	0.69
2:oD:63:ARG:NH1	2:oJ:207:ASP:OD1	2.25	0.69
2:oE:221:PHE:CD1	2:oE:242:VAL:HG22	2.26	0.69
2:oX:243:TYR:CE1	2:oX:294:LEU:HD21	2.28	0.69
2:pg:141:HIS:NE2	2:pg:150:THR:OG1	2.26	0.69
3:qd:65:GLY:N	4:qm:219:ILE:HG23	2.07	0.69
3:qe:133:ALA:HB3	3:qe:138:TYR:CD2	2.27	0.69
3:qg:64:GLY:O	4:qj:220:SER:C	2.36	0.69
6:qq:48:ILE:HG21	6:qq:67:LEU:HD11	1.74	0.69
5:qr:19:GLU:OE1	5:qr:19:GLU:N	2.25	0.69
5:qr:252:LEU:HD22	6:qu:126:GLN:HG2	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qr:398:TRP:CH2	5:qt:405:ILE:CD1	2.72	0.69
5:qx:19:GLU:N	5:qx:19:GLU:OE1	2.25	0.69
5:qF:245:ASP:OD1	6:qI:121:VAL:HG22	1.92	0.69
2:ai:60:ILE:HG23	1:nX:105:THR:HG21	1.75	0.69
1:as:99:LEU:HA	2:bN:197:LYS:CD	2.13	0.69
1:aC:99:LEU:CD1	1:kK:60:ARG:NH1	2.26	0.69
2:aW:205:MET:HE2	2:bk:63:ARG:NE	2.08	0.69
2:aY:197:LYS:CD	1:bh:99:LEU:CA	2.69	0.69
2:bQ:103:MET:HE2	5:qp:174:ARG:NH2	2.06	0.69
2:bZ:141:HIS:NE2	2:bZ:150:THR:OG1	2.26	0.69
2:cb:81:GLU:O	2:ce:57:ARG:N	2.24	0.69
2:cn:141:HIS:NE2	2:cn:150:THR:OG1	2.26	0.69
1:da:99:LEU:HD21	1:eE:60:ARG:CD	2.18	0.69
2:di:226:LEU:HD22	2:di:270:LEU:HD22	1.73	0.69
2:dE:63:ARG:NH1	2:dK:207:ASP:OD1	2.25	0.69
2:dF:184:TYR:HH	2:dF:204:PHE:HD1	1.37	0.69
2:eg:174:ASP:OD1	2:eg:214:ARG:NH2	2.25	0.69
2:eJ:184:TYR:HH	2:eJ:204:PHE:HD1	1.38	0.69
2:fl:205:MET:HE2	2:nA:63:ARG:NE	2.08	0.69
2:fq:197:LYS:HA	2:nA:62:GLN:OE1	1.93	0.69
2:fq:226:LEU:HD22	2:fq:270:LEU:HD22	1.73	0.69
1:fI:60:ARG:CD	1:fY:99:LEU:HD21	2.18	0.69
2:fN:21:GLN:NE2	2:fN:105:GLU:OE2	2.26	0.69
2:fN:198:GLU:CD	1:fZ:101:VAL:CG1	2.58	0.69
1:gn:101:VAL:CG1	2:hT:198:GLU:CD	2.58	0.69
1:hd:90:LEU:O	1:hd:94:GLU:N	2.24	0.69
2:hf:221:PHE:CD1	2:hf:242:VAL:HG22	2.26	0.69
2:hw:192:PHE:HZ	2:kq:196:THR:HG21	1.57	0.69
1:ia:99:LEU:CD1	1:nx:102:GLU:CD	2.60	0.69
2:ig:63:ARG:NH1	2:im:207:ASP:OD1	2.25	0.69
2:iz:192:PHE:HZ	2:jP:196:THR:HG21	1.57	0.69
2:iA:243:TYR:CE1	2:iA:294:LEU:HD21	2.28	0.69
1:iH:90:LEU:O	1:iH:94:GLU:N	2.24	0.69
2:iO:243:TYR:CE1	2:iO:294:LEU:HD21	2.28	0.69
1:jd:100:LYS:CD	1:jj:100:LYS:HZ1	2.05	0.69
2:jk:174:ASP:OD1	2:jk:214:ARG:NH2	2.25	0.69
2:jl:205:MET:HE2	2:ls:63:ARG:NE	2.08	0.69
2:jz:205:MET:HE2	2:pW:63:ARG:NE	2.08	0.69
1:jU:99:LEU:CD1	1:pT:102:GLU:CD	2.60	0.69
1:kI:100:LYS:CG	1:kO:100:LYS:HZ1	2.01	0.69
2:kQ:21:GLN:NE2	2:kQ:105:GLU:OE2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kV:197:LYS:HA	2:mY:62:GLN:OE1	1.93	0.69
2:le:63:ARG:NE	2:mK:205:MET:HE2	2.07	0.69
2:lj:243:TYR:CE1	2:lj:294:LEU:HD21	2.28	0.69
2:mB:226:LEU:HD22	2:mB:270:LEU:HD22	1.73	0.69
2:mK:21:GLN:NE2	2:mK:105:GLU:OE2	2.26	0.69
2:mK:141:HIS:NE2	2:mK:150:THR:OG1	2.26	0.69
2:na:81:GLU:O	2:nd:57:ARG:N	2.24	0.69
2:nl:174:ASP:OD1	2:nl:214:ARG:NH2	2.25	0.69
2:nA:52:GLN:N	2:nA:52:GLN:OE1	2.24	0.69
1:nJ:105:THR:HG21	2:od:60:ILE:HG23	1.74	0.69
2:nO:21:GLN:NE2	2:nO:105:GLU:OE2	2.26	0.69
2:oh:243:TYR:CE1	2:oh:294:LEU:HD21	2.28	0.69
2:pI:141:HIS:NE2	2:pI:150:THR:OG1	2.26	0.69
3:qe:60:ALA:C	4:qm:33:SER:OG	2.36	0.69
4:qm:214:GLN:O	4:qn:38:GLN:HA	1.91	0.69
6:qq:126:GLN:HG2	5:qL:252:LEU:HD22	1.72	0.69
5:qt:245:ASP:OD1	6:qw:121:VAL:HG22	1.92	0.69
5:qv:19:GLU:N	5:qv:19:GLU:OE1	2.25	0.69
5:qv:380:MET:HE2	5:qv:403:LEU:HD21	1.73	0.69
5:qx:380:MET:HE2	5:qx:403:LEU:HD21	1.73	0.69
5:qz:398:TRP:CH2	5:qB:405:ILE:CD1	2.72	0.69
5:qF:252:LEU:HD22	6:qI:126:GLN:HG2	1.72	0.69
5:qH:380:MET:HE2	5:qH:403:LEU:HD21	1.73	0.69
6:qK:112:LEU:CD2	6:qM:58:LEU:CB	2.71	0.69
6:qM:48:ILE:HG21	6:qM:67:LEU:HD11	1.74	0.69
2:ah:205:MET:HE2	2:oS:63:ARG:NE	2.08	0.69
2:az:243:TYR:CE1	2:az:294:LEU:HD21	2.28	0.69
2:aN:197:LYS:HA	2:iX:62:GLN:OE1	1.93	0.69
2:ba:171:TYR:HH	2:ba:175:THR:HG1	1.38	0.69
2:bp:197:LYS:HA	2:dr:62:GLN:OE1	1.93	0.69
2:by:21:GLN:NE2	2:by:105:GLU:OE2	2.26	0.69
2:by:63:ARG:NE	2:dd:205:MET:HE2	2.08	0.69
2:bD:243:TYR:CE1	2:bD:294:LEU:HD21	2.28	0.69
1:bT:105:THR:CG2	2:eZ:60:ILE:HG12	2.23	0.69
1:bW:99:LEU:HA	2:dt:197:LYS:CD	2.13	0.69
2:bZ:205:MET:HE2	2:iJ:63:ARG:NE	2.08	0.69
1:ch:95:SER:OG	1:ch:96:ASP:OD1	2.07	0.69
2:cn:62:GLN:OE1	2:iA:197:LYS:HA	1.93	0.69
2:cn:63:ARG:NE	2:iv:205:MET:HE2	2.07	0.69
2:cr:192:PHE:HZ	2:ix:196:THR:HG21	1.57	0.69
2:cs:197:LYS:HA	2:pu:62:GLN:OE1	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cs:243:TYR:CE1	2:cs:294:LEU:HD21	2.28	0.69
2:cD:196:THR:HG21	2:cT:192:PHE:HZ	1.57	0.69
1:cJ:105:THR:CG2	2:iL:60:ILE:HG12	2.23	0.69
2:cU:197:LYS:HA	2:eX:62:GLN:OE1	1.93	0.69
2:dd:21:GLN:NE2	2:dd:105:GLU:OE2	2.26	0.69
2:dr:21:GLN:NE2	2:dr:105:GLU:OE2	2.26	0.69
2:dt:81:GLU:O	2:dw:57:ARG:N	2.24	0.69
1:dz:102:GLU:HB2	1:gx:99:LEU:HD22	1.74	0.69
2:dG:60:ILE:HG23	1:eS:105:THR:HG21	1.75	0.69
2:dH:196:THR:HG21	2:pk:192:PHE:HZ	1.57	0.69
2:em:197:LYS:HA	2:ev:62:GLN:OE1	1.93	0.69
1:eG:99:LEU:HD21	1:gk:60:ARG:CD	2.18	0.69
2:eJ:63:ARG:NE	2:gp:205:MET:HE2	2.08	0.69
2:eK:60:ILE:HG23	1:gk:105:THR:HG21	1.75	0.69
2:eL:81:GLU:O	2:eO:57:ARG:N	2.24	0.69
2:fk:63:ARG:NH1	2:fq:207:ASP:OD1	2.25	0.69
2:fl:21:GLN:NE2	2:fl:105:GLU:OE2	2.26	0.69
2:fz:21:GLN:NE2	2:fz:105:GLU:OE2	2.26	0.69
2:fe:197:LYS:HA	2:mi:62:GLN:OE1	1.93	0.69
2:fN:62:GLN:OE1	2:lZ:197:LYS:HA	1.93	0.69
2:fO:60:ILE:HG23	1:lP:105:THR:HG21	1.75	0.69
1:fW:105:THR:HG21	2:ii:60:ILE:HG23	1.75	0.69
2:gg:197:LYS:HA	2:ih:62:GLN:OE1	1.93	0.69
2:gg:226:LEU:HD22	2:gg:270:LEU:HD22	1.73	0.69
2:gD:52:GLN:OE1	2:gD:52:GLN:N	2.23	0.69
2:gQ:63:ARG:NH1	2:gW:207:ASP:OD1	2.25	0.69
2:gR:21:GLN:NE2	2:gR:105:GLU:OE2	2.26	0.69
2:he:63:ARG:NH1	2:hk:207:ASP:OD1	2.25	0.69
2:hh:196:THR:HG21	2:kG:192:PHE:HZ	1.57	0.69
2:ht:60:ILE:HG23	1:kk:105:THR:HG21	1.75	0.69
2:hK:183:ILE:HA	5:qt:177:SER:C	2.18	0.69
2:hK:243:TYR:CE1	2:hK:294:LEU:HD21	2.28	0.69
2:iw:197:LYS:NZ	1:pR:100:LYS:N	2.36	0.69
2:iJ:21:GLN:NE2	2:iJ:105:GLU:OE2	2.26	0.69
2:iX:21:GLN:NE2	2:iX:105:GLU:OE2	2.26	0.69
2:jl:52:GLN:N	2:jl:52:GLN:OE1	2.24	0.69
2:jQ:197:LYS:HA	2:ls:62:GLN:OE1	1.93	0.69
2:jD:192:PHE:HZ	2:lg:196:THR:HG21	1.57	0.69
2:jM:63:ARG:NH1	2:jS:207:ASP:OD1	2.25	0.69
2:jN:52:GLN:N	2:jN:52:GLN:OE1	2.23	0.69
2:jR:192:PHE:HZ	2:pK:196:THR:HG21	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jS:243:TYR:CE1	2:jS:294:LEU:HD21	2.28	0.69
2:kb:63:ARG:NE	2:ls:205:MET:HE2	2.08	0.69
2:kd:81:GLU:O	2:kg:57:ARG:N	2.24	0.69
2:kf:192:PHE:HZ	2:lu:196:THR:HG21	1.57	0.69
2:kt:243:TYR:CE1	2:kt:294:LEU:HD21	2.28	0.69
2:kC:21:GLN:NE2	2:kC:105:GLU:OE2	2.26	0.69
2:kC:205:MET:HE2	2:kQ:63:ARG:NE	2.08	0.69
2:kE:60:ILE:HG12	1:lO:105:THR:CG2	2.23	0.69
1:lc:100:LYS:HZ1	1:mQ:100:LYS:CD	2.06	0.69
2:le:21:GLN:NE2	2:le:105:GLU:OE2	2.26	0.69
2:li:192:PHE:HZ	2:mM:196:THR:HG21	1.57	0.69
1:ln:99:LEU:CA	2:pX:197:LYS:HZ1	2.03	0.69
1:mc:99:LEU:CD1	1:nu:60:ARG:NH2	2.52	0.69
2:mn:243:TYR:CE1	2:mn:294:LEU:HD21	2.28	0.69
2:mw:141:HIS:NE2	2:mw:150:THR:OG1	2.26	0.69
2:my:197:LYS:CD	1:oB:99:LEU:HA	2.13	0.69
2:mM:81:GLU:O	2:mP:57:ARG:N	2.25	0.69
1:mW:90:LEU:O	1:mW:94:GLU:N	2.24	0.69
2:nm:21:GLN:NE2	2:nm:105:GLU:OE2	2.26	0.69
2:nm:221:PHE:CD1	2:nm:242:VAL:HG22	2.26	0.69
2:nA:21:GLN:NE2	2:nA:105:GLU:OE2	2.26	0.69
2:nO:198:GLU:CD	1:oa:101:VAL:CG1	2.58	0.69
2:pl:243:TYR:CE1	2:pl:294:LEU:HD21	2.28	0.69
2:pw:196:THR:HG21	2:pM:192:PHE:HZ	1.57	0.69
2:pz:197:LYS:HA	2:pI:62:GLN:OE1	1.93	0.69
2:pW:21:GLN:NE2	2:pW:105:GLU:OE2	2.26	0.69
2:qb:243:TYR:CE1	2:qb:294:LEU:HD21	2.28	0.69
3:qg:64:GLY:O	4:qj:219:ILE:HG22	1.93	0.69
3:qh:66:GLN:N	4:qj:9:GLY:O	2.23	0.69
6:qs:8:ASP:CA	6:qu:39:ARG:HH12	2.04	0.69
5:qt:245:ASP:OD2	6:qw:121:VAL:HG23	1.91	0.69
6:qw:48:ILE:HG21	6:qw:67:LEU:HD11	1.74	0.69
5:qx:398:TRP:CH2	5:qz:405:ILE:CD1	2.72	0.69
6:qy:112:LEU:CD2	6:qA:58:LEU:CB	2.71	0.69
5:qH:252:LEU:CD2	6:qK:126:GLN:CB	2.58	0.69
2:au:63:ARG:NH1	2:az:207:ASP:OD1	2.25	0.69
1:aQ:99:LEU:HD22	1:ch:102:GLU:HB2	1.73	0.69
2:aW:63:ARG:NE	2:iJ:205:MET:HE2	2.07	0.69
2:bj:174:ASP:OD1	2:bj:214:ARG:NH2	2.25	0.69
2:cm:63:ARG:NH1	2:cs:207:ASP:OD1	2.25	0.69
2:cn:21:GLN:NE2	2:cn:105:GLU:OE2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:co:163:ALA:HB3	2:co:265:VAL:CG1	2.23	0.69
2:cU:243:TYR:CE1	2:cU:294:LEU:HD21	2.28	0.69
1:cX:102:GLU:HB2	1:dz:99:LEU:HD22	1.73	0.69
2:dd:141:HIS:NE2	2:dd:150:THR:OG1	2.26	0.69
1:dm:99:LEU:C	2:hU:197:LYS:HZ2	1.99	0.69
2:dH:81:GLU:O	2:dK:57:ARG:N	2.25	0.69
1:ee:99:LEU:HD21	1:nv:60:ARG:CD	2.18	0.69
2:ei:60:ILE:HG23	1:nv:105:THR:HG21	1.75	0.69
2:ej:81:GLU:O	2:em:57:ARG:N	2.24	0.69
2:ev:141:HIS:NE2	2:ev:150:THR:OG1	2.26	0.69
1:eQ:99:LEU:CD1	1:iG:102:GLU:CD	2.60	0.69
2:fN:205:MET:HE2	2:gb:63:ARG:NE	2.08	0.69
2:gb:141:HIS:NE2	2:gb:150:THR:OG1	2.26	0.69
2:gd:196:THR:HG21	2:il:192:PHE:HZ	1.57	0.69
2:gC:63:ARG:NH1	2:gI:207:ASP:OD1	2.25	0.69
1:hc:99:LEU:HD21	1:lB:60:ARG:CD	2.18	0.69
1:hy:100:LYS:CG	1:hE:100:LYS:HZ3	1.93	0.69
2:jz:21:GLN:NE2	2:jz:105:GLU:OE2	2.26	0.69
2:jz:63:ARG:NE	2:le:205:MET:HE2	2.08	0.69
1:jI:99:LEU:HA	2:or:197:LYS:HZ3	1.58	0.69
2:jN:63:ARG:NE	2:pI:205:MET:HE2	2.08	0.69
2:kP:63:ARG:NH1	2:kV:207:ASP:OD1	2.25	0.69
2:kP:174:ASP:OD1	2:kP:214:ARG:NH2	2.25	0.69
2:IU:141:HIS:NE2	2:IU:150:THR:OG1	2.26	0.69
1:md:105:THR:HG21	2:mx:60:ILE:HG23	1.75	0.69
2:mi:21:GLN:NE2	2:mi:105:GLU:OE2	2.26	0.69
2:mK:63:ARG:NE	2:oq:205:MET:HE2	2.08	0.69
2:no:81:GLU:O	2:nr:57:ARG:N	2.24	0.69
2:oq:62:GLN:OE1	2:qb:197:LYS:HA	1.93	0.69
2:oq:63:ARG:NE	2:pW:205:MET:HE2	2.08	0.69
2:pu:184:TYR:HH	2:pu:204:PHE:HD1	1.39	0.69
6:qC:112:LEU:CD2	6:qE:58:LEU:CB	2.71	0.69
5:qD:19:GLU:N	5:qD:19:GLU:OE1	2.25	0.69
6:qI:48:ILE:HG21	6:qI:67:LEU:HD11	1.74	0.69
1:ab:105:THR:CG2	2:mM:60:ILE:HG12	2.23	0.69
2:al:182:LEU:HD12	2:al:182:LEU:O	1.93	0.69
1:aq:105:THR:HG21	2:kp:60:ILE:HG23	1.74	0.69
2:av:163:ALA:HB3	2:av:265:VAL:CG1	2.23	0.69
2:aw:60:ILE:HG12	1:hN:105:THR:CG2	2.23	0.69
2:aH:278:VAL:HG11	2:aH:295:VAL:O	1.93	0.69
2:aM:182:LEU:HD12	2:aM:182:LEU:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aW:21:GLN:NE2	2:aW:105:GLU:OE2	2.26	0.69
2:bb:197:LYS:HA	2:bk:62:GLN:OE1	1.93	0.69
2:bl:163:ALA:HB3	2:bl:265:VAL:CG1	2.23	0.69
2:bm:81:GLU:O	2:bp:57:ARG:N	2.24	0.69
2:by:62:GLN:OE1	2:di:197:LYS:HA	1.93	0.69
2:bA:186:GLU:O	2:ca:191:SER:OG	2.08	0.69
2:ca:163:ALA:HB3	2:ca:265:VAL:CG1	2.23	0.69
2:cp:196:THR:HG21	2:py:192:PHE:HZ	1.57	0.69
2:cs:182:LEU:O	2:cs:182:LEU:HD12	1.93	0.69
2:ds:163:ALA:HB3	2:ds:265:VAL:CG1	2.23	0.69
2:dG:163:ALA:HB3	2:dG:265:VAL:CG1	2.23	0.69
2:dK:243:TYR:CE1	2:dK:294:LEU:HD21	2.28	0.69
2:dS:63:ARG:NH1	2:dY:207:ASP:OD1	2.25	0.69
2:dS:278:VAL:HG11	2:dS:295:VAL:O	1.93	0.69
2:dU:60:ILE:HG23	1:oN:105:THR:HG21	1.75	0.69
2:dY:243:TYR:CE1	2:dY:294:LEU:HD21	2.28	0.69
2:eg:278:VAL:HG11	2:eg:295:VAL:O	1.93	0.69
2:eh:63:ARG:NE	2:nA:205:MET:HE2	2.07	0.69
2:el:192:PHE:HZ	2:nC:196:THR:HG21	1.57	0.69
2:ev:21:GLN:NE2	2:ev:105:GLU:OE2	2.26	0.69
2:eJ:62:GLN:OE1	2:gu:197:LYS:HA	1.93	0.69
2:eN:192:PHE:HZ	2:gr:196:THR:HG21	1.57	0.69
1:eU:102:GLU:CD	1:iC:99:LEU:CD1	2.60	0.69
2:fc:243:TYR:CE1	2:fc:294:LEU:HD21	2.28	0.69
1:fg:60:ARG:CD	1:nx:99:LEU:HD21	2.18	0.69
2:fB:197:LYS:CD	1:mf:99:LEU:HA	2.13	0.69
2:gD:21:GLN:NE2	2:gD:105:GLU:OE2	2.26	0.69
2:gS:163:ALA:HB3	2:gS:265:VAL:CG1	2.23	0.69
2:gW:226:LEU:HD22	2:gW:270:LEU:HD22	1.73	0.69
2:hh:197:LYS:CD	1:kz:99:LEU:CA	2.69	0.69
1:hr:90:LEU:O	1:hr:94:GLU:N	2.24	0.69
2:ht:163:ALA:HB3	2:ht:265:VAL:CG1	2.23	0.69
2:hS:63:ARG:NH1	2:hY:207:ASP:OD1	2.25	0.69
2:hT:141:HIS:NE2	2:hT:150:THR:OG1	2.26	0.69
2:ih:21:GLN:NE2	2:ih:105:GLU:OE2	2.26	0.69
2:iz:182:LEU:HD12	2:iz:182:LEU:O	1.93	0.69
2:jl:141:HIS:NE2	2:jl:150:THR:OG1	2.26	0.69
2:jO:163:ALA:HB3	2:jO:265:VAL:CG1	2.23	0.69
1:kx:105:THR:HG21	2:kR:60:ILE:HG23	1.75	0.69
2:kQ:205:MET:HE2	2:mY:63:ARG:NE	2.08	0.69
2:ls:141:HIS:NE2	2:ls:150:THR:OG1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lx:226:LEU:HD22	2:lx:270:LEU:HD22	1.73	0.69
2:IL:182:LEU:O	2:IL:182:LEU:HD12	1.93	0.69
2:IU:21:GLN:NE2	2:IU:105:GLU:OE2	2.26	0.69
2:nF:182:LEU:HD12	2:nF:182:LEU:O	1.94	0.69
2:oc:21:GLN:NE2	2:oc:105:GLU:OE2	2.26	0.69
2:pg:106:MET:HG3	2:pg:184:TYR:HD1	1.54	0.69
2:pw:81:GLU:O	2:pz:57:ARG:N	2.24	0.69
2:pz:243:TYR:CE1	2:pz:294:LEU:HD21	2.28	0.69
3:qh:64:GLY:C	4:qj:10:GLN:NE2	2.51	0.69
6:qs:48:ILE:HG21	6:qs:67:LEU:HD11	1.74	0.69
2:ah:141:HIS:NE2	2:ah:150:THR:OG1	2.26	0.68
2:al:192:PHE:HZ	2:oe:196:THR:HG21	1.57	0.68
2:am:182:LEU:HD12	2:am:182:LEU:O	1.94	0.68
2:am:243:TYR:CE1	2:am:294:LEU:HD21	2.28	0.68
1:ap:99:LEU:CD1	1:hN:60:ARG:NH2	2.52	0.68
1:aT:103:ARG:HD3	2:px:61:GLY:O	1.94	0.68
2:aY:60:ILE:HG12	1:ch:105:THR:CG2	2.23	0.68
2:bk:205:MET:HE2	2:dr:63:ARG:NE	2.08	0.68
1:bs:102:GLU:HB2	1:bT:99:LEU:HD22	1.74	0.68
2:bA:205:MET:HE1	2:ca:196:THR:HG23	1.72	0.68
1:bG:105:THR:CG2	2:gr:60:ILE:HG12	2.23	0.68
2:bO:61:GLY:O	1:lR:103:ARG:HD3	1.93	0.68
2:bQ:103:MET:CE	5:qp:58:GLN:OE1	2.41	0.68
2:cd:182:LEU:HD12	2:cd:182:LEU:O	1.93	0.68
2:ce:197:LYS:HA	2:iJ:62:GLN:OE1	1.93	0.68
1:ci:103:ARG:HG3	2:pv:61:GLY:CA	2.24	0.68
2:cB:62:GLN:OE1	2:pl:197:LYS:HA	1.93	0.68
2:cC:163:ALA:HB3	2:cC:265:VAL:CG1	2.24	0.68
2:di:243:TYR:CE1	2:di:294:LEU:HD21	2.28	0.68
2:dw:182:LEU:HD12	2:dw:182:LEU:O	1.94	0.68
1:dN:99:LEU:HD22	1:pC:102:GLU:HB2	1.73	0.68
2:dY:182:LEU:HD12	2:dY:182:LEU:O	1.93	0.68
2:dY:197:LYS:HA	2:nO:62:GLN:OE1	1.93	0.68
1:ef:101:VAL:CG1	2:nA:198:GLU:CD	2.58	0.68
2:ew:163:ALA:HB3	2:ew:265:VAL:CG1	2.23	0.68
2:eA:197:LYS:HA	2:gD:62:GLN:OE1	1.93	0.68
2:eA:243:TYR:CE1	2:eA:294:LEU:HD21	2.28	0.68
2:eY:163:ALA:HB3	2:eY:265:VAL:CG1	2.23	0.68
2:fn:196:THR:HG21	2:nE:192:PHE:HZ	1.57	0.68
2:fP:60:ILE:HG12	1:gZ:105:THR:CG2	2.23	0.68
2:ga:278:VAL:HG11	2:ga:295:VAL:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gR:63:ARG:NE	2:ih:205:MET:HE2	2.08	0.68
2:hj:182:LEU:O	2:hj:182:LEU:HD12	1.94	0.68
2:hJ:182:LEU:O	2:hJ:182:LEU:HD12	1.93	0.68
2:hV:81:GLU:O	2:hY:57:ARG:N	2.24	0.68
2:ih:141:HIS:NE2	2:ih:150:THR:OG1	2.26	0.68
1:iS:105:THR:CG2	2:jm:60:ILE:CG2	2.62	0.68
2:jy:278:VAL:HG11	2:jy:295:VAL:O	1.93	0.68
2:jP:205:MET:HE1	2:or:196:THR:HG23	1.72	0.68
2:kc:163:ALA:HB3	2:kc:265:VAL:CG1	2.23	0.68
2:ke:61:GLY:O	1:pT:103:ARG:HD3	1.94	0.68
2:kE:81:GLU:O	2:kH:57:ARG:N	2.24	0.68
2:kH:182:LEU:HD12	2:kH:182:LEU:O	1.94	0.68
2:kQ:83:THR:HG21	2:mY:65:ILE:HG13	1.76	0.68
2:kU:182:LEU:HD12	2:kU:182:LEU:O	1.93	0.68
1:lb:103:ARG:HD3	2:np:61:GLY:O	1.94	0.68
2:le:62:GLN:OE1	2:mP:197:LYS:HA	1.93	0.68
2:lf:163:ALA:HB3	2:lf:265:VAL:CG1	2.24	0.68
2:lj:226:LEU:HD22	2:lj:270:LEU:HD22	1.73	0.68
2:lx:182:LEU:O	2:lx:182:LEU:HD12	1.93	0.68
2:mw:205:MET:HE2	2:oE:63:ARG:NE	2.08	0.68
2:my:196:THR:HG21	2:oI:192:PHE:HZ	1.57	0.68
2:my:197:LYS:CD	1:oB:99:LEU:CA	2.68	0.68
2:mP:182:LEU:HD12	2:mP:182:LEU:O	1.94	0.68
2:nn:163:ALA:HB3	2:nn:265:VAL:CG1	2.23	0.68
2:nE:182:LEU:HD12	2:nE:182:LEU:O	1.93	0.68
2:og:182:LEU:HD12	2:og:182:LEU:O	1.93	0.68
1:ok:105:THR:CG2	2:oU:60:ILE:HG12	2.23	0.68
2:oq:65:ILE:HG13	2:pW:83:THR:HG21	1.76	0.68
2:or:163:ALA:HB3	2:or:265:VAL:CG1	2.23	0.68
2:pf:63:ARG:NH1	2:pl:207:ASP:OD1	2.25	0.68
3:qe:64:GLY:C	4:ql:219:ILE:HG23	2.18	0.68
6:qs:112:LEU:CD2	6:qu:58:LEU:CB	2.71	0.68
6:qI:112:LEU:CD2	6:qK:58:LEU:CB	2.71	0.68
1:ac:103:ARG:HG3	2:oT:61:GLY:CA	2.24	0.68
1:ae:103:ARG:HD3	2:fC:61:GLY:O	1.94	0.68
2:ag:63:ARG:NH1	2:am:207:ASP:OD1	2.25	0.68
2:ah:62:GLN:OE1	2:oh:197:LYS:HA	1.93	0.68
2:aN:226:LEU:HD22	2:aN:270:LEU:HD22	1.73	0.68
2:aY:196:THR:HG21	2:bo:192:PHE:HZ	1.57	0.68
2:ba:197:LYS:HE3	2:px:62:GLN:HG3	1.67	0.68
1:bf:103:ARG:HG3	2:ds:61:GLY:CA	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bs:95:SER:OG	1:bs:96:ASP:OD1	2.07	0.68
1:bs:99:LEU:CD1	1:eR:60:ARG:NH2	2.52	0.68
2:by:65:ILE:HG13	2:dd:83:THR:HG21	1.76	0.68
2:by:184:TYR:HH	2:by:204:PHE:HD1	1.38	0.68
1:bJ:103:ARG:HD3	2:lX:61:GLY:O	1.94	0.68
2:bQ:95:ASN:CG	5:qp:47:ARG:NH1	2.51	0.68
2:cc:61:GLY:O	1:hQ:103:ARG:HD3	1.93	0.68
1:cv:99:LEU:HD22	1:dN:102:GLU:HB2	1.73	0.68
2:cP:21:GLN:NE2	2:cP:105:GLU:OE2	2.26	0.68
2:cP:52:GLN:N	2:cP:52:GLN:OE1	2.24	0.68
1:da:103:ARG:HD3	2:fo:61:GLY:O	1.94	0.68
2:dK:182:LEU:HD12	2:dK:182:LEU:O	1.93	0.68
2:dU:163:ALA:HB3	2:dU:265:VAL:CG1	2.23	0.68
2:eh:21:GLN:NE2	2:eh:105:GLU:OE2	2.26	0.68
2:ez:182:LEU:HD12	2:ez:182:LEU:O	1.94	0.68
2:eO:182:LEU:HD12	2:eO:182:LEU:O	1.93	0.68
2:fn:186:GLU:O	2:ii:191:SER:OG	2.08	0.68
1:fl:105:THR:HG21	2:gc:60:ILE:HG23	1.75	0.68
2:fM:278:VAL:HG11	2:fM:295:VAL:O	1.93	0.68
2:fO:163:ALA:HB3	2:fO:265:VAL:CG1	2.23	0.68
2:gR:65:ILE:HG13	2:ih:83:THR:HG21	1.75	0.68
2:gR:141:HIS:NE2	2:gR:150:THR:OG1	2.26	0.68
1:ha:103:ARG:HG3	2:kD:61:GLY:CA	2.24	0.68
1:ha:105:THR:HG21	2:kD:60:ILE:HG23	1.75	0.68
2:hF:65:ILE:HG13	2:lG:83:THR:HG21	1.76	0.68
1:hz:99:LEU:CD1	1:kN:102:GLU:CD	2.60	0.68
1:hA:99:LEU:CD1	1:kw:60:ARG:NH1	2.25	0.68
2:hI:61:GLY:O	1:kN:103:ARG:HD3	1.93	0.68
2:hU:163:ALA:HB3	2:hU:265:VAL:CG1	2.24	0.68
2:iw:196:THR:HG23	2:pY:205:MET:HE1	1.72	0.68
2:jb:182:LEU:O	2:jb:182:LEU:HD12	1.94	0.68
1:jg:103:ARG:HG3	2:lt:61:GLY:CA	2.24	0.68
2:jl:83:THR:HG21	2:ls:65:ILE:HG13	1.76	0.68
2:jm:163:ALA:HB3	2:jm:265:VAL:CG1	2.23	0.68
2:jB:196:THR:HG21	2:qa:192:PHE:HZ	1.57	0.68
2:jB:197:LYS:CD	1:pT:99:LEU:HA	2.13	0.68
2:jE:182:LEU:HD12	2:jE:182:LEU:O	1.94	0.68
2:jO:61:GLY:CA	1:pD:103:ARG:HG3	2.24	0.68
2:kb:21:GLN:NE2	2:kb:105:GLU:OE2	2.26	0.68
2:kf:182:LEU:HD12	2:kf:182:LEU:O	1.93	0.68
2:lj:182:LEU:HD12	2:lj:182:LEU:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lx:243:TYR:CE1	2:lx:294:LEU:HD21	2.28	0.68
2:IG:21:GLN:NE2	2:IG:105:GLU:OE2	2.26	0.68
2:mi:83:THR:HG21	2:mw:65:ILE:HG13	1.76	0.68
2:mk:196:THR:HG21	2:mA:192:PHE:HZ	1.57	0.68
2:mk:197:LYS:CD	1:mt:99:LEU:CA	2.69	0.68
2:mk:197:LYS:CD	1:mt:99:LEU:HA	2.13	0.68
1:mu:90:LEU:O	1:mu:94:GLU:N	2.24	0.68
2:mw:21:GLN:NE2	2:mw:105:GLU:OE2	2.26	0.68
2:my:81:GLU:O	2:mB:57:ARG:N	2.24	0.68
2:mB:197:LYS:HA	2:oE:62:GLN:OE1	1.93	0.68
2:mZ:163:ALA:HB3	2:mZ:265:VAL:CG1	2.23	0.68
2:nd:243:TYR:CE1	2:nd:294:LEU:HD21	2.28	0.68
2:nr:226:LEU:HD22	2:nr:270:LEU:HD22	1.73	0.68
2:nN:278:VAL:HG11	2:nN:295:VAL:O	1.93	0.68
2:pt:278:VAL:HG11	2:pt:295:VAL:O	1.93	0.68
2:pX:163:ALA:HB3	2:pX:265:VAL:CG1	2.23	0.68
3:qi:68:ALA:CB	4:qo:8:TYR:OH	2.41	0.68
5:qt:19:GLU:OE1	5:qt:19:GLU:N	2.25	0.68
5:qz:19:GLU:N	5:qz:19:GLU:OE1	2.25	0.68
2:aj:60:ILE:HG12	1:ng:105:THR:CG2	2.23	0.68
2:aj:196:THR:HG21	2:oW:192:PHE:HZ	1.57	0.68
2:am:197:LYS:HA	2:oS:62:GLN:OE1	1.93	0.68
2:av:61:GLY:CA	1:bH:103:ARG:HG3	2.24	0.68
2:bp:182:LEU:HD12	2:bp:182:LEU:O	1.94	0.68
2:by:205:MET:HE2	2:hT:63:ARG:NE	2.08	0.68
2:bz:163:ALA:HB3	2:bz:265:VAL:CG1	2.24	0.68
1:bJ:99:LEU:CA	2:hH:197:LYS:CD	2.69	0.68
2:bN:81:GLU:O	2:bQ:57:ARG:N	2.24	0.68
2:bZ:63:ARG:NE	2:dr:205:MET:HE2	2.08	0.68
2:cn:83:THR:HG21	2:pu:65:ILE:HG13	1.76	0.68
2:cB:21:GLN:NE2	2:cB:105:GLU:OE2	2.26	0.68
2:cG:243:TYR:CE1	2:cG:294:LEU:HD21	2.28	0.68
1:cK:103:ARG:HG3	2:eY:61:GLY:CA	2.24	0.68
1:dl:60:ARG:NH1	1:hN:99:LEU:CD1	2.25	0.68
2:dv:182:LEU:HD12	2:dv:182:LEU:O	1.93	0.68
2:dF:141:HIS:NE2	2:dF:150:THR:OG1	2.26	0.68
2:eh:83:THR:HG21	2:ev:65:ILE:HG13	1.76	0.68
2:ei:163:ALA:HB3	2:ei:265:VAL:CG1	2.23	0.68
2:el:182:LEU:HD12	2:el:182:LEU:O	1.93	0.68
1:ep:99:LEU:HD22	1:nI:102:GLU:HB2	1.74	0.68
2:ev:83:THR:HG21	2:gD:65:ILE:HG13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ev:197:LYS:HG2	1:gz:100:LYS:HB2	1.76	0.68
2:ey:61:GLY:O	1:nZ:103:ARG:HD3	1.93	0.68
1:eG:103:ARG:HD3	2:gU:61:GLY:O	1.93	0.68
2:eO:226:LEU:HD22	2:eO:270:LEU:HD22	1.73	0.68
2:fa:61:GLY:O	1:iG:103:ARG:HD3	1.94	0.68
1:ff:60:ARG:NH1	1:ib:99:LEU:CD1	2.25	0.68
2:fq:182:LEU:HD12	2:fq:182:LEU:O	1.94	0.68
2:fy:278:VAL:HG11	2:fy:295:VAL:O	1.93	0.68
2:fz:52:GLN:OE1	2:fz:52:GLN:N	2.24	0.68
2:fr:192:PHE:HZ	2:lW:196:THR:HG21	1.57	0.68
2:go:278:VAL:HG11	2:go:295:VAL:O	1.93	0.68
2:gq:163:ALA:HB3	2:gq:265:VAL:CG1	2.23	0.68
2:gt:182:LEU:HD12	2:gt:182:LEU:O	1.93	0.68
2:gu:182:LEU:O	2:gu:182:LEU:HD12	1.94	0.68
2:gD:141:HIS:NE2	2:gD:150:THR:OG1	2.26	0.68
1:gM:105:THR:HG21	2:lV:60:ILE:HG23	1.75	0.68
2:gW:182:LEU:HD12	2:gW:182:LEU:O	1.94	0.68
2:hg:163:ALA:HB3	2:hg:265:VAL:CG1	2.23	0.68
2:hk:182:LEU:O	2:hk:182:LEU:HD12	1.93	0.68
2:hw:182:LEU:HD12	2:hw:182:LEU:O	1.93	0.68
2:hx:95:ASN:HB2	5:qz:47:ARG:HE	1.57	0.68
1:hN:95:SER:OG	1:hN:96:ASP:OD1	2.07	0.68
2:im:243:TYR:CE1	2:im:294:LEU:HD21	2.28	0.68
1:ip:99:LEU:HD22	1:pQ:102:GLU:HB2	1.73	0.68
2:iX:205:MET:HE2	2:jl:63:ARG:NE	2.08	0.68
2:iY:163:ALA:HB3	2:iY:265:VAL:CG1	2.23	0.68
1:jt:102:GLU:HB2	1:jV:99:LEU:HD22	1.73	0.68
2:jD:182:LEU:HD12	2:jD:182:LEU:O	1.93	0.68
2:jS:182:LEU:HD12	2:jS:182:LEU:O	1.94	0.68
2:ko:278:VAL:HG11	2:ko:295:VAL:O	1.93	0.68
2:kt:107:GLY:C	5:qD:178:PRO:HA	2.17	0.68
2:ld:278:VAL:HG11	2:ld:295:VAL:O	1.93	0.68
2:lG:141:HIS:NE2	2:lG:150:THR:OG1	2.26	0.68
2:lK:192:PHE:HZ	2:na:196:THR:HG21	1.57	0.68
2:mw:83:THR:HG21	2:oE:65:ILE:HG13	1.76	0.68
1:mH:103:ARG:HD3	2:oV:61:GLY:O	1.94	0.68
2:nd:226:LEU:HD22	2:nd:270:LEU:HD22	1.73	0.68
2:nB:163:ALA:HB3	2:nB:265:VAL:CG1	2.23	0.68
2:od:163:ALA:HB3	2:od:265:VAL:CG1	2.24	0.68
2:or:60:ILE:HG23	1:pR:105:THR:HG21	1.75	0.68
2:or:61:GLY:CA	1:pR:103:ARG:HG3	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ov:182:LEU:HD12	2:ov:182:LEU:O	1.94	0.68
2:ov:243:TYR:CE1	2:ov:294:LEU:HD21	2.28	0.68
1:pa:95:SER:OG	1:pa:96:ASP:OD1	2.07	0.68
2:pu:141:HIS:NE2	2:pu:150:THR:OG1	2.26	0.68
2:pY:81:GLU:O	2:qb:57:ARG:N	2.24	0.68
3:qd:63:GLN:NE2	4:qm:221:ASP:OD1	2.20	0.68
3:qf:66:GLN:O	4:ql:10:GLN:HG3	1.92	0.68
6:qA:112:LEU:CD2	6:qC:58:LEU:CB	2.71	0.68
6:qG:112:LEU:CD2	6:qI:58:LEU:CB	2.71	0.68
6:qK:48:ILE:HG21	6:qK:67:LEU:HD11	1.74	0.68
2:ah:21:GLN:NE2	2:ah:105:GLU:OE2	2.26	0.68
2:ah:63:ARG:NE	2:oc:205:MET:HE2	2.08	0.68
1:aq:103:ARG:HG3	2:kp:61:GLY:CA	2.24	0.68
2:az:182:LEU:HD12	2:az:182:LEU:O	1.94	0.68
1:aF:103:ARG:HD3	2:nb:61:GLY:O	1.94	0.68
1:aR:103:ARG:HG3	2:bl:61:GLY:CA	2.24	0.68
2:aV:278:VAL:HG11	2:aV:295:VAL:O	1.93	0.68
2:aW:141:HIS:NE2	2:aW:150:THR:OG1	2.26	0.68
2:bb:226:LEU:HD22	2:bb:270:LEU:HD22	1.73	0.68
2:bk:141:HIS:NE2	2:bk:150:THR:OG1	2.26	0.68
2:bm:197:LYS:CD	1:do:99:LEU:CA	2.69	0.68
2:bN:60:ILE:HG12	1:gL:105:THR:CG2	2.23	0.68
2:bP:182:LEU:HD12	2:bP:182:LEU:O	1.93	0.68
2:bQ:182:LEU:O	2:bQ:182:LEU:HD12	1.93	0.68
2:bQ:243:TYR:CE1	2:bQ:294:LEU:HD21	2.28	0.68
1:ck:103:ARG:HD3	2:lv:61:GLY:O	1.93	0.68
2:cm:278:VAL:HG11	2:cm:295:VAL:O	1.94	0.68
2:cs:226:LEU:HD22	2:cs:270:LEU:HD22	1.73	0.68
2:cG:182:LEU:O	2:cG:182:LEU:HD12	1.93	0.68
2:cR:197:LYS:CD	1:eU:99:LEU:HA	2.13	0.68
2:dg:61:GLY:O	1:f:103:ARG:HD3	1.93	0.68
2:di:182:LEU:O	2:di:182:LEU:HD12	1.94	0.68
2:dG:61:GLY:CA	1:eS:103:ARG:HG3	2.24	0.68
1:dO:60:ARG:CD	1:nL:99:LEU:HD21	2.18	0.68
1:dO:105:THR:HG21	2:nP:60:ILE:HG23	1.75	0.68
1:ec:103:ARG:HG3	2:ew:61:GLY:CA	2.24	0.68
2:eh:65:ILE:HG13	2:nA:83:THR:HG21	1.76	0.68
2:ej:60:ILE:HG12	1:ft:105:THR:CG2	2.23	0.68
2:eN:182:LEU:HD12	2:eN:182:LEU:O	1.94	0.68
2:eW:63:ARG:NH1	2:fc:207:ASP:OD1	2.25	0.68
2:fz:65:ILE:HG13	2:nm:83:THR:HG21	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fH:102:GLU:HB2	1:mq:99:LEU:HD22	1.74	0.68
2:fP:196:THR:HG21	2:gf:192:PHE:HZ	1.57	0.68
2:ge:61:GLY:O	1:mt:103:ARG:HD3	1.93	0.68
2:gG:61:GLY:O	1:pd:103:ARG:HD3	1.94	0.68
2:gI:243:TYR:CE1	2:gI:294:LEU:HD21	2.28	0.68
2:gR:198:GLU:CD	1:lS:101:VAL:CG1	2.58	0.68
2:hf:198:GLU:CD	1:kA:101:VAL:CG1	2.58	0.68
2:hf:205:MET:HE2	2:kC:63:ARG:NE	2.08	0.68
1:hn:60:ARG:NH1	1:kK:99:LEU:CD1	2.26	0.68
2:hs:278:VAL:HG11	2:hs:295:VAL:O	1.93	0.68
2:ht:61:GLY:CA	1:kk:103:ARG:HG3	2.24	0.68
2:hF:278:VAL:HG11	2:hF:295:VAL:O	1.93	0.68
2:hH:60:ILE:HG12	1:kw:105:THR:CG2	2.23	0.68
2:iv:62:GLN:OE1	2:jS:197:LYS:HA	1.93	0.68
2:iw:61:GLY:CA	1:jI:103:ARG:HG3	2.24	0.68
2:iK:163:ALA:HB3	2:iK:265:VAL:CG1	2.24	0.68
2:jC:182:LEU:HD12	2:jC:182:LEU:O	1.93	0.68
2:jQ:243:TYR:CE1	2:jQ:294:LEU:HD21	2.28	0.68
2:jE:243:TYR:CE1	2:jE:294:LEU:HD21	2.28	0.68
2:jN:141:HIS:NE2	2:jN:150:THR:OG1	2.26	0.68
2:kQ:141:HIS:NE2	2:kQ:150:THR:OG1	2.26	0.68
2:ls:21:GLN:NE2	2:ls:105:GLU:OE2	2.26	0.68
2:lw:182:LEU:O	2:lw:182:LEU:HD12	1.93	0.68
2:IY:182:LEU:HD12	2:IY:182:LEU:O	1.93	0.68
2:mh:278:VAL:HG11	2:mh:295:VAL:O	1.93	0.68
2:mj:163:ALA:HB3	2:mj:265:VAL:CG1	2.23	0.68
2:mk:81:GLU:O	2:mn:57:ARG:N	2.24	0.68
2:nr:243:TYR:CE1	2:nr:294:LEU:HD21	2.28	0.68
1:nI:99:LEU:HD22	1:pa:102:GLU:HB2	1.74	0.68
2:nO:197:LYS:HG2	1:nY:100:LYS:HB2	1.76	0.68
2:ob:278:VAL:HG11	2:ob:295:VAL:O	1.93	0.68
2:oQ:21:GLN:NE2	2:oQ:105:GLU:OE2	2.26	0.68
1:ow:90:LEU:HD22	2:pW:5:THR:HG22	1.76	0.68
2:oJ:243:TYR:CE1	2:oJ:294:LEU:HD21	2.28	0.68
2:ow:182:LEU:HD12	2:ow:182:LEU:O	1.93	0.68
2:ox:182:LEU:O	2:ox:182:LEU:HD12	1.94	0.68
2:pl:182:LEU:HD12	2:pl:182:LEU:O	1.94	0.68
2:pJ:163:ALA:HB3	2:pJ:265:VAL:CG1	2.23	0.68
3:qg:66:GLN:HA	4:qk:8:TYR:O	1.93	0.68
5:qD:245:ASP:OD1	6:qG:121:VAL:HG22	1.92	0.68
2:ah:5:THR:HG22	1:oY:90:LEU:HD22	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ah:52:GLN:N	2:ah:52:GLN:OE1	2.23	0.68
2:ak:61:GLY:O	1:fw:103:ARG:HD3	1.94	0.68
1:ap:102:GLU:HB2	1:dl:99:LEU:HD22	1.74	0.68
2:aW:65:ILE:HG13	2:iJ:83:THR:HG21	1.76	0.68
2:ba:182:LEU:HD12	2:ba:182:LEU:O	1.94	0.68
2:bz:61:GLY:CA	1:cY:103:ARG:HG3	2.24	0.68
2:bD:182:LEU:HD12	2:bD:182:LEU:O	1.93	0.68
1:bU:103:ARG:HG3	2:iK:61:GLY:CA	2.24	0.68
2:bY:278:VAL:HG11	2:bY:295:VAL:O	1.93	0.68
2:cP:83:THR:HG21	2:eX:65:ILE:HG13	1.76	0.68
2:cP:205:MET:HE2	2:eX:63:ARG:NE	2.07	0.68
2:cR:197:LYS:CD	1:eU:99:LEU:CA	2.69	0.68
2:dJ:182:LEU:HD12	2:dJ:182:LEU:O	1.94	0.68
1:eD:105:THR:CG2	2:fn:60:ILE:HG12	2.23	0.68
1:eR:95:SER:OG	1:eR:96:ASP:OD1	2.07	0.68
2:fl:141:HIS:NE2	2:fl:150:THR:OG1	2.26	0.68
2:fl:197:LYS:HG2	1:nw:100:LYS:HB2	1.76	0.68
2:fD:182:LEU:HD12	2:fD:182:LEU:O	1.93	0.68
1:fW:103:ARG:HG3	2:ii:61:GLY:CA	2.24	0.68
2:gR:62:GLN:OE1	2:im:197:LYS:HA	1.93	0.68
1:hc:103:ARG:HD3	2:oH:61:GLY:O	1.93	0.68
1:hD:103:ARG:HD3	2:kT:61:GLY:O	1.94	0.68
2:ig:278:VAL:HG11	2:ig:295:VAL:O	1.93	0.68
2:ik:61:GLY:O	1:nx:103:ARG:HD3	1.93	0.68
1:it:90:LEU:O	1:it:94:GLU:N	2.24	0.68
1:iD:102:GLU:HB2	1:po:99:LEU:HD22	1.73	0.68
2:jn:197:LYS:CD	1:lp:99:LEU:HA	2.13	0.68
1:jw:103:ARG:HD3	2:lJ:61:GLY:O	1.94	0.68
2:jC:61:GLY:O	1:lD:103:ARG:HD3	1.94	0.68
2:jE:197:LYS:HA	2:pW:62:GLN:OE1	1.93	0.68
2:jN:21:GLN:NE2	2:jN:105:GLU:OE2	2.26	0.68
2:kt:107:GLY:O	5:qD:178:PRO:N	2.26	0.68
2:kB:278:VAL:HG11	2:kB:295:VAL:O	1.94	0.68
2:kV:243:TYR:CE1	2:kV:294:LEU:HD21	2.28	0.68
2:lr:63:ARG:NH1	2:lx:207:ASP:OD1	2.25	0.68
1:lA:105:THR:CG2	2:oG:60:ILE:HG12	2.23	0.68
2:lG:62:GLN:OE1	2:nd:197:LYS:HA	1.93	0.68
2:IH:60:ILE:HG23	1:mT:105:THR:HG21	1.75	0.68
2:IT:278:VAL:HG11	2:IT:295:VAL:O	1.94	0.68
1:mr:60:ARG:CD	1:oB:99:LEU:HD21	2.18	0.68
2:mB:243:TYR:CE1	2:mB:294:LEU:HD21	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mE:105:THR:CG2	2:no:60:ILE:HG12	2.23	0.68
2:mL:163:ALA:HB3	2:mL:265:VAL:CG1	2.23	0.68
2:nl:278:VAL:HG11	2:nl:295:VAL:O	1.93	0.68
2:nm:62:GLN:OE1	2:oJ:197:LYS:HA	1.93	0.68
2:nm:63:ARG:NE	2:oE:205:MET:HE2	2.08	0.68
2:nT:182:LEU:HD12	2:nT:182:LEU:O	1.94	0.68
2:nT:197:LYS:HA	2:oc:62:GLN:OE1	1.93	0.68
2:nT:243:TYR:CE1	2:nT:294:LEU:HD21	2.28	0.68
1:ol:99:LEU:C	2:oT:197:LYS:HZ2	2.01	0.68
2:ou:182:LEU:HD12	2:ou:182:LEU:O	1.93	0.68
2:oE:141:HIS:NE2	2:oE:150:THR:OG1	2.26	0.68
2:oI:182:LEU:HD12	2:oI:182:LEU:O	1.94	0.68
2:pz:226:LEU:HD22	2:pz:270:LEU:HD22	1.73	0.68
3:qi:133:ALA:HB3	3:qi:138:TYR:CD2	2.28	0.68
6:qu:112:LEU:CD2	6:qw:58:LEU:CB	2.71	0.68
1:af:90:LEU:O	1:af:94:GLU:N	2.24	0.68
2:aI:21:GLN:NE2	2:aI:105:GLU:OE2	2.26	0.68
2:aW:62:GLN:OE1	2:iO:197:LYS:HA	1.93	0.68
2:aX:197:LYS:HZ1	1:ci:99:LEU:CA	2.02	0.68
2:bk:5:THR:HG22	1:dx:90:LEU:HD22	1.76	0.68
2:bk:197:LYS:HG2	1:dn:100:LYS:HB2	1.76	0.68
2:by:5:THR:HG22	1:hZ:90:LEU:HD22	1.76	0.68
2:bZ:62:GLN:OE1	2:dw:197:LYS:HA	1.93	0.68
2:bZ:197:LYS:HG2	1:iF:100:LYS:HB2	1.76	0.68
2:co:61:GLY:CA	1:iq:103:ARG:HG3	2.24	0.68
2:cD:81:GLU:O	2:cG:57:ARG:N	2.25	0.68
2:cF:182:LEU:HD12	2:cF:182:LEU:O	1.94	0.68
2:cG:197:LYS:HA	2:cP:62:GLN:OE1	1.93	0.68
2:cT:182:LEU:HD12	2:cT:182:LEU:O	1.93	0.68
2:de:61:GLY:CA	1:eE:103:ARG:HG3	2.24	0.68
1:dz:105:THR:CG2	2:gF:60:ILE:HG12	2.23	0.68
1:dA:103:ARG:HG3	2:ph:61:GLY:CA	2.24	0.68
2:dF:21:GLN:NE2	2:dF:105:GLU:OE2	2.26	0.68
2:dF:62:GLN:OE1	2:fc:197:LYS:HA	1.93	0.68
2:dF:65:ILE:HG13	2:eX:83:THR:HG21	1.76	0.68
2:dI:86:VAL:HG23	2:dI:202:GLN:HB2	1.76	0.68
2:dT:65:ILE:HG13	2:oS:83:THR:HG21	1.76	0.68
2:dT:141:HIS:NE2	2:dT:150:THR:OG1	2.26	0.68
2:dU:61:GLY:CA	1:oN:103:ARG:HG3	2.24	0.68
2:ek:61:GLY:O	1:mf:103:ARG:HD3	1.94	0.68
1:ep:105:THR:CG2	2:pi:60:ILE:HG12	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ev:5:THR:HG22	1:gJ:90:LEU:HD22	1.76	0.68
2:fl:62:GLN:OE1	2:gI:197:LYS:HA	1.93	0.68
1:ft:99:LEU:CG	1:nW:60:ARG:NE	2.53	0.68
1:fw:99:LEU:HA	2:no:197:LYS:CD	2.13	0.68
2:fN:141:HIS:NE2	2:fN:150:THR:OG1	2.26	0.68
2:gb:205:MET:HE2	2:ih:63:ARG:NE	2.08	0.68
2:gc:68:MET:HE3	2:gf:84:VAL:HG21	1.76	0.68
2:gd:81:GLU:O	2:gg:57:ARG:N	2.24	0.68
1:gj:60:ARG:NH1	1:gL:99:LEU:CD1	2.26	0.68
2:gp:21:GLN:NE2	2:gp:105:GLU:OE2	2.26	0.68
2:gt:171:TYR:OH	2:gt:175:THR:OG1	2.12	0.68
2:gR:5:THR:HG22	1:ma:90:LEU:HD22	1.76	0.68
1:gX:90:LEU:HD22	2:ih:5:THR:HG22	1.76	0.68
2:hF:21:GLN:NE2	2:hF:105:GLU:OE2	2.26	0.68
2:hF:62:GLN:OE1	2:IL:197:LYS:HA	1.93	0.68
1:hn:105:THR:CG2	2:kS:60:ILE:HG12	2.23	0.68
2:hs:63:ARG:NH1	2:hx:207:ASP:OD1	2.25	0.68
2:ht:60:ILE:CG2	1:kk:105:THR:CG2	2.62	0.68
2:hv:86:VAL:HG23	2:hv:202:GLN:HB2	1.76	0.68
2:ii:68:MET:HE3	2:il:84:VAL:HG21	1.76	0.68
2:il:182:LEU:O	2:il:182:LEU:HD12	1.94	0.68
2:iv:63:ARG:NE	2:jN:205:MET:HE2	2.08	0.68
2:iy:61:GLY:O	1:on:103:ARG:HD3	1.94	0.68
1:iS:105:THR:HG21	2:jm:60:ILE:HG23	1.75	0.68
2:iX:5:THR:HG22	1:jr:90:LEU:HD22	1.76	0.68
2:iX:197:LYS:HG2	1:jh:100:LYS:HB2	1.76	0.68
2:jz:83:THR:HG21	2:pW:65:ILE:HG13	1.76	0.68
2:jA:163:ALA:HB3	2:jA:265:VAL:CG1	2.23	0.68
1:jF:90:LEU:HD22	2:le:5:THR:HG22	1.76	0.68
1:jH:60:ARG:NH1	1:ok:99:LEU:CD1	2.25	0.68
2:jM:278:VAL:HG11	2:jM:295:VAL:O	1.93	0.68
1:jY:103:ARG:HD3	2:pZ:61:GLY:O	1.94	0.68
2:kb:65:ILE:HG13	2:ls:83:THR:HG21	1.76	0.68
2:kc:60:ILE:HG23	1:ln:105:THR:HG21	1.75	0.68
2:kc:61:GLY:CA	1:ln:103:ARG:HG3	2.24	0.68
1:kx:103:ARG:HG3	2:kR:61:GLY:CA	2.24	0.68
2:kQ:5:THR:HG22	1:ne:90:LEU:HD22	1.76	0.68
1:kY:99:LEU:CG	1:oy:60:ARG:NE	2.53	0.68
2:lf:61:GLY:CA	1:mF:103:ARG:HG3	2.24	0.68
2:lg:60:ILE:HG12	1:oy:105:THR:CG2	2.23	0.68
2:lh:61:GLY:O	1:nj:103:ARG:HD3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IL:226:LEU:HD22	2:IL:270:LEU:HD22	1.73	0.68
1:md:103:ARG:HG3	2:mx:61:GLY:CA	2.24	0.68
2:mi:198:GLU:CD	1:mu:101:VAL:CG1	2.58	0.68
2:mn:197:LYS:HA	2:mw:62:GLN:OE1	1.93	0.68
2:mx:68:MET:HE3	2:mA:84:VAL:HG21	1.76	0.68
1:mD:99:LEU:CD1	1:oP:102:GLU:CD	2.60	0.68
2:mX:278:VAL:HG11	2:mX:295:VAL:O	1.93	0.68
2:mY:21:GLN:NE2	2:mY:105:GLU:OE2	2.26	0.68
1:nk:101:VAL:CG1	2:oE:198:GLU:CD	2.58	0.68
2:nz:278:VAL:HG11	2:nz:295:VAL:O	1.93	0.68
2:nO:184:TYR:HH	2:nO:204:PHE:HD1	1.37	0.68
2:oc:141:HIS:NE2	2:oc:150:THR:OG1	2.26	0.68
2:oR:278:VAL:HG11	2:oR:295:VAL:O	1.93	0.68
1:pp:103:ARG:HG3	2:pJ:61:GLY:CA	2.24	0.68
2:pw:197:LYS:CD	1:pF:99:LEU:CA	2.69	0.68
3:qh:66:GLN:H	4:qj:10:GLN:N	1.92	0.68
3:qi:65:GLY:O	4:qo:8:TYR:CE2	2.47	0.68
5:qp:252:LEU:HD22	6:qs:126:GLN:HG2	1.72	0.68
6:qq:112:LEU:CD2	6:qs:58:LEU:CB	2.71	0.68
5:qD:252:LEU:HD22	6:qG:126:GLN:HG2	1.72	0.68
6:qE:112:LEU:CD2	6:qG:58:LEU:CB	2.71	0.68
1:ac:103:ARG:CG	2:oT:61:GLY:O	2.42	0.68
2:ah:65:ILE:HG13	2:oc:83:THR:HG21	1.76	0.68
1:at:90:LEU:O	1:at:94:GLU:N	2.24	0.68
2:au:184:TYR:CG	5:qL:176:ASN:HA	2.03	0.68
2:au:278:VAL:HG11	2:au:295:VAL:O	1.93	0.68
2:aI:205:MET:HE2	2:iX:63:ARG:NE	2.08	0.68
2:bo:182:LEU:HD12	2:bo:182:LEU:O	1.94	0.68
1:bK:100:LYS:HZ3	1:hL:100:LYS:CG	1.93	0.68
2:bZ:21:GLN:NE2	2:bZ:105:GLU:OE2	2.26	0.68
2:ca:60:ILE:HG23	1:dm:105:THR:HG21	1.75	0.68
2:cq:61:GLY:O	1:lp:103:ARG:HD3	1.94	0.68
1:cx:100:LYS:HB2	2:pg:197:LYS:HG2	1.76	0.68
1:cH:100:LYS:CD	1:cN:100:LYS:HZ1	2.06	0.68
2:cS:86:VAL:HG23	2:cS:202:GLN:HB2	1.76	0.68
1:dj:90:LEU:HD22	2:eJ:5:THR:HG22	1.76	0.68
2:dK:197:LYS:HA	2:pg:62:GLN:OE1	1.93	0.68
2:dT:62:GLN:OE1	2:oX:197:LYS:HA	1.93	0.68
2:eh:5:THR:HG22	1:eB:90:LEU:HD22	1.76	0.68
2:eh:141:HIS:NE2	2:eh:150:THR:OG1	2.26	0.68
1:eq:103:ARG:HG3	2:gE:61:GLY:CA	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eX:21:GLN:NE2	2:eX:105:GLU:OE2	2.26	0.68
2:eX:141:HIS:NE2	2:eX:150:THR:OG1	2.26	0.68
2:fA:163:ALA:HB3	2:fA:265:VAL:CG1	2.23	0.68
1:fI:103:ARG:HG3	2:gc:61:GLY:CA	2.24	0.68
2:fO:60:ILE:CG2	1:lP:105:THR:CG2	2.62	0.68
2:fO:61:GLY:CA	1:lP:103:ARG:HG3	2.24	0.68
2:fS:243:TYR:CE1	2:fS:294:LEU:HD21	2.28	0.68
1:fT:100:LYS:CD	1:fZ:100:LYS:HZ1	2.07	0.68
1:fV:99:LEU:CD1	1:mc:60:ARG:NH2	2.52	0.68
2:gg:243:TYR:CE1	2:gg:294:LEU:HD21	2.28	0.68
2:gI:182:LEU:O	2:gI:182:LEU:HD12	1.93	0.68
2:gS:60:ILE:HG23	1:ic:105:THR:HG21	1.75	0.68
2:he:278:VAL:HG11	2:he:295:VAL:O	1.94	0.68
2:hg:61:GLY:CA	1:lB:103:ARG:HG3	2.24	0.68
2:ht:68:MET:HE3	2:hw:84:VAL:HG21	1.76	0.68
2:hX:182:LEU:HD12	2:hX:182:LEU:O	1.94	0.68
2:hY:243:TYR:CE1	2:hY:294:LEU:HD21	2.28	0.68
2:iu:278:VAL:HG11	2:iu:295:VAL:O	1.93	0.68
2:iv:21:GLN:NE2	2:iv:105:GLU:OE2	2.26	0.68
2:iN:182:LEU:HD12	2:iN:182:LEU:O	1.93	0.68
2:iO:182:LEU:HD12	2:iO:182:LEU:O	1.94	0.68
2:jc:243:TYR:CE1	2:jc:294:LEU:HD21	2.28	0.68
2:jQ:182:LEU:HD12	2:jQ:182:LEU:O	1.94	0.68
1:jw:99:LEU:HD21	1:kZ:60:ARG:CD	2.18	0.68
2:jE:226:LEU:HD22	2:jE:270:LEU:HD22	1.73	0.68
2:kb:62:GLN:OE1	2:lx:197:LYS:HA	1.93	0.68
2:ke:86:VAL:HG23	2:ke:202:GLN:HB2	1.76	0.68
2:kD:163:ALA:HB3	2:kD:265:VAL:CG1	2.23	0.68
1:la:100:LYS:HB2	2:mK:197:LYS:HG2	1.76	0.68
2:li:182:LEU:HD12	2:li:182:LEU:O	1.93	0.68
2:lt:163:ALA:HB3	2:lt:265:VAL:CG1	2.23	0.68
2:mJ:278:VAL:HG11	2:mJ:295:VAL:O	1.94	0.68
2:mP:243:TYR:CE1	2:mP:294:LEU:HD21	2.28	0.68
1:ns:90:LEU:HD22	2:oE:5:THR:HG22	1.76	0.68
2:nP:68:MET:HE3	2:nS:84:VAL:HG21	1.76	0.68
2:oD:278:VAL:HG11	2:oD:295:VAL:O	1.93	0.68
2:oS:141:HIS:NE2	2:oS:150:THR:OG1	2.26	0.68
2:pk:182:LEU:HD12	2:pk:182:LEU:O	1.93	0.68
1:pp:105:THR:HG21	2:pJ:60:ILE:HG23	1.75	0.68
2:pN:182:LEU:O	2:pN:182:LEU:HD12	1.94	0.68
2:pN:243:TYR:CE1	2:pN:294:LEU:HD21	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qg:68:ALA:HB2	4:qk:8:TYR:OH	1.93	0.68
6:qu:48:ILE:HG21	6:qu:67:LEU:HD11	1.74	0.68
5:qB:19:GLU:N	5:qB:19:GLU:OE1	2.25	0.68
2:ai:61:GLY:CA	1:nX:103:ARG:HG3	2.24	0.68
2:ai:163:ALA:HB3	2:ai:265:VAL:CG1	2.23	0.68
2:aI:141:HIS:NE2	2:aI:150:THR:OG1	2.26	0.68
2:aJ:163:ALA:HB3	2:aJ:265:VAL:CG1	2.24	0.68
2:bb:243:TYR:CE1	2:bb:294:LEU:HD21	2.28	0.68
1:bh:103:ARG:HD3	2:jo:61:GLY:O	1.94	0.68
2:bp:243:TYR:CE1	2:bp:294:LEU:HD21	2.28	0.68
1:bw:101:VAL:CG1	2:dd:198:GLU:CD	2.58	0.68
2:by:83:THR:HG21	2:hT:65:ILE:HG13	1.76	0.68
2:bM:61:GLY:O	1:hB:103:ARG:CG	2.42	0.68
2:ca:61:GLY:CA	1:dm:103:ARG:HG3	2.24	0.68
2:ce:243:TYR:CE1	2:ce:294:LEU:HD21	2.28	0.68
2:cr:182:LEU:O	2:cr:182:LEU:HD12	1.93	0.68
1:cv:60:ARG:NH2	1:pC:99:LEU:CD1	2.52	0.68
2:cB:141:HIS:NE2	2:cB:150:THR:OG1	2.26	0.68
1:cH:90:LEU:HD22	2:pg:5:THR:HG22	1.76	0.68
1:cZ:100:LYS:HB2	2:eJ:197:LYS:HG2	1.76	0.68
2:de:68:MET:HE3	2:dh:84:VAL:HG21	1.76	0.68
1:dO:103:ARG:HG3	2:nP:61:GLY:CA	2.24	0.68
1:dQ:99:LEU:CA	2:oU:197:LYS:CD	2.69	0.68
2:dT:198:GLU:CD	1:nM:101:VAL:CG1	2.58	0.68
2:dW:86:VAL:HG23	2:dW:202:GLN:HB2	1.76	0.68
2:ei:61:GLY:CA	1:nv:103:ARG:HG3	2.24	0.68
1:eq:105:THR:HG21	2:gE:60:ILE:HG23	1.75	0.68
2:eJ:141:HIS:NE2	2:eJ:150:THR:OG1	2.26	0.68
2:eK:61:GLY:CA	1:gk:103:ARG:HG3	2.24	0.68
1:eU:103:ARG:HD3	2:iM:61:GLY:O	1.94	0.68
1:fu:60:ARG:CD	1:mf:99:LEU:HD21	2.18	0.68
2:fB:196:THR:HG21	2:mm:192:PHE:HZ	1.57	0.68
1:fH:99:LEU:CD1	1:gZ:60:ARG:NH1	2.26	0.68
2:fN:83:THR:HG21	2:gb:65:ILE:HG13	1.76	0.68
2:gu:243:TYR:CE1	2:gu:294:LEU:HD21	2.28	0.68
2:gE:68:MET:HE3	2:gH:84:VAL:HG21	1.76	0.68
1:gM:103:ARG:HG3	2:IV:61:GLY:CA	2.24	0.68
2:hi:61:GLY:O	1:oB:103:ARG:HD3	1.93	0.68
2:hs:104:GLN:HE21	5:qB:179:ALA:HA	1.42	0.68
2:hx:103:MET:HB3	5:qz:34:GLN:NE2	2.08	0.68
2:hx:243:TYR:CE1	2:hx:294:LEU:HD21	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hX:182:LEU:HD12	2:hX:182:LEU:O	1.94	0.68
2:hY:182:LEU:HD12	2:hY:182:LEU:O	1.93	0.68
1:if:90:LEU:O	1:if:94:GLU:N	2.24	0.68
1:ir:100:LYS:HB2	2:jN:197:LYS:HG2	1.76	0.68
2:iL:186:GLU:O	2:pv:191:SER:OG	2.08	0.68
2:kr:86:VAL:HG23	2:kr:202:GLN:HB2	1.76	0.68
2:kD:68:MET:HE3	2:kG:84:VAL:HG21	1.76	0.68
2:kQ:184:TYR:HH	2:kQ:204:PHE:HD1	1.41	0.68
2:kR:163:ALA:HB3	2:kR:265:VAL:CG1	2.23	0.68
2:le:141:HIS:NE2	2:le:150:THR:OG1	2.26	0.68
2:lV:68:MET:HE3	2:lY:84:VAL:HG21	1.76	0.68
2:mA:182:LEU:O	2:mA:182:LEU:HD12	1.94	0.68
2:mK:62:GLN:OE1	2:ov:197:LYS:HA	1.93	0.68
2:mZ:68:MET:HE3	2:nc:84:VAL:HG21	1.76	0.68
2:nn:68:MET:HE3	2:nq:84:VAL:HG21	1.76	0.68
1:nJ:103:ARG:HG3	2:od:61:GLY:CA	2.24	0.68
2:nR:86:VAL:HG23	2:nR:202:GLN:HB2	1.76	0.68
2:oF:68:MET:HE3	2:oI:84:VAL:HG21	1.76	0.68
2:oF:163:ALA:HB3	2:oF:265:VAL:CG1	2.23	0.68
2:oH:86:VAL:HG23	2:oH:202:GLN:HB2	1.76	0.68
1:pp:103:ARG:CG	2:pJ:61:GLY:O	2.42	0.68
2:pI:21:GLN:NE2	2:pI:105:GLU:OE2	2.26	0.68
2:qa:87:LYS:NZ	2:qa:201:GLU:OE1	2.27	0.68
3:qd:64:GLY:C	4:qn:10:GLN:HE22	2.02	0.68
3:qd:67:ARG:CB	4:qn:194:LEU:HD13	2.24	0.68
3:qg:55:GLU:HB3	4:qk:223:ASN:HD21	1.58	0.68
3:qg:63:GLN:NE2	4:qj:221:ASP:HA	1.20	0.68
5:qx:245:ASP:OD2	6:qA:121:VAL:HG23	1.91	0.68
2:ah:197:LYS:HG2	1:oO:100:LYS:HB2	1.76	0.68
2:ay:182:LEU:HD12	2:ay:182:LEU:O	1.93	0.68
1:aC:105:THR:CG2	2:hu:60:ILE:HG12	2.23	0.68
1:aD:103:ARG:CG	2:iY:61:GLY:O	2.42	0.68
1:aE:100:LYS:HB2	2:kb:197:LYS:HG2	1.76	0.68
2:aL:86:VAL:O	2:aL:202:GLN:N	2.27	0.68
2:aN:182:LEU:HD12	2:aN:182:LEU:O	1.94	0.68
1:aR:103:ARG:CG	2:bl:61:GLY:O	2.42	0.68
2:aW:197:LYS:HG2	1:bg:100:LYS:HB2	1.76	0.68
2:aX:61:GLY:O	1:iE:103:ARG:CG	2.42	0.68
1:be:102:GLU:HB2	1:kj:99:LEU:HD22	1.73	0.68
2:bC:182:LEU:HD12	2:bC:182:LEU:O	1.93	0.68
1:ck:102:GLU:CD	1:ll:99:LEU:CD1	2.60	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cu:99:LEU:CD1	1:nL:102:GLU:CD	2.60	0.68
2:cB:63:ARG:NE	2:pg:205:MET:HE2	2.08	0.68
2:cB:205:MET:HE2	2:cP:63:ARG:NE	2.08	0.68
2:cQ:163:ALA:HB3	2:cQ:265:VAL:CG1	2.23	0.68
2:dc:278:VAL:HG11	2:dc:295:VAL:O	1.93	0.68
2:de:163:ALA:HB3	2:de:265:VAL:CG1	2.23	0.68
1:dA:105:THR:HG21	2:ph:60:ILE:HG23	1.75	0.68
1:dO:105:THR:CG2	2:nP:60:ILE:CG2	2.62	0.68
1:eb:105:THR:CG2	2:oe:60:ILE:HG12	2.23	0.68
2:eJ:21:GLN:NE2	2:eJ:105:GLU:OE2	2.26	0.68
2:eO:243:TYR:CE1	2:eO:294:LEU:HD21	2.28	0.68
1:ff:105:THR:CG2	2:ij:60:ILE:HG12	2.23	0.68
2:fl:83:THR:HG21	2:nA:65:ILE:HG13	1.76	0.68
2:fm:163:ALA:HB3	2:fm:265:VAL:CG1	2.23	0.68
2:fp:87:LYS:NZ	2:fp:201:GLU:OE1	2.27	0.68
2:fz:197:LYS:HG2	1:me:100:LYS:HB2	1.76	0.68
2:fA:60:ILE:HG23	1:nh:105:THR:HG21	1.75	0.68
2:fA:61:GLY:CA	1:nh:103:ARG:HG3	2.24	0.68
2:fO:61:GLY:O	1:lP:103:ARG:CG	2.42	0.68
2:gb:52:GLN:N	2:gb:52:GLN:OE1	2.23	0.68
2:gb:83:THR:HG21	2:ih:65:ILE:HG13	1.76	0.68
2:gQ:278:VAL:HG11	2:gQ:295:VAL:O	1.93	0.68
2:gR:83:THR:HG21	2:lU:65:ILE:HG13	1.76	0.68
2:gS:60:ILE:CG2	1:ic:105:THR:CG2	2.62	0.68
2:gS:61:GLY:CA	1:ic:103:ARG:HG3	2.24	0.68
2:hg:60:ILE:HG23	1:lB:105:THR:HG21	1.75	0.68
2:hW:86:VAL:HG23	2:hW:202:GLN:HB2	1.76	0.68
1:ie:102:GLU:CD	1:nt:99:LEU:CD1	2.60	0.68
2:ik:86:VAL:HG23	2:ik:202:GLN:HB2	1.76	0.68
2:iX:52:GLN:N	2:iX:52:GLN:OE1	2.24	0.68
2:iZ:196:THR:HG21	2:jp:192:PHE:HZ	1.57	0.68
1:ju:103:ARG:HG3	2:pX:61:GLY:CA	2.24	0.68
1:jJ:100:LYS:HB2	2:pI:197:LYS:HG2	1.76	0.68
2:jO:61:GLY:O	1:pD:103:ARG:CG	2.42	0.68
2:jR:182:LEU:HD12	2:jR:182:LEU:O	1.94	0.68
1:jV:60:ARG:NE	1:mS:99:LEU:CG	2.53	0.68
1:jV:102:GLU:HB2	1:mS:99:LEU:HD22	1.74	0.68
1:jX:100:LYS:HB2	2:ls:197:LYS:HG2	1.76	0.68
2:kf:87:LYS:NZ	2:kf:201:GLU:OE1	2.27	0.68
1:kw:99:LEU:CD1	1:lO:60:ARG:NH1	2.25	0.68
1:kL:103:ARG:HG3	2:mZ:61:GLY:CA	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ln:99:LEU:C	2:pX:197:LYS:HZ2	2.02	0.68
2:IX:86:VAL:HG23	2:IX:202:GLN:HB2	1.76	0.68
1:mr:103:ARG:HG3	2:oF:61:GLY:CA	2.24	0.68
2:mL:61:GLY:CA	1:ol:103:ARG:HG3	2.24	0.68
2:mO:182:LEU:HD12	2:mO:182:LEU:O	1.93	0.68
1:mQ:90:LEU:HD22	2:oq:5:THR:HG22	1.76	0.68
2:nF:243:TYR:CE1	2:nF:294:LEU:HD21	2.28	0.68
2:nO:205:MET:HE2	2:oc:63:ARG:NE	2.08	0.68
2:nP:163:ALA:HB3	2:nP:265:VAL:CG1	2.23	0.68
2:oG:81:GLU:O	2:oJ:57:ARG:N	2.24	0.68
2:oT:163:ALA:HB3	2:oT:265:VAL:CG1	2.23	0.68
2:oW:171:TYR:OH	2:oW:175:THR:OG1	2.12	0.68
2:ph:68:MET:HE3	2:pk:84:VAL:HG21	1.76	0.68
3:qe:68:ALA:CB	4:qm:8:TYR:OH	2.42	0.68
5:qx:252:LEU:CD2	6:qA:126:GLN:CB	2.58	0.68
5:qH:317:PHE:HZ	5:qJ:319:LEU:HD11	1.59	0.68
2:aI:197:LYS:HG2	1:iT:100:LYS:HB2	1.76	0.68
2:aN:243:TYR:CE1	2:aN:294:LEU:HD21	2.28	0.68
2:aW:5:THR:HG22	1:bq:90:LEU:HD22	1.76	0.68
2:aZ:61:GLY:O	1:pr:103:ARG:HD3	1.94	0.68
2:bk:187:ARG:NH2	2:bp:190:PRO:O	2.28	0.68
2:bm:60:ILE:HG12	1:iR:105:THR:CG2	2.23	0.68
1:bq:100:LYS:CG	1:dp:100:LYS:NZ	2.40	0.68
2:bQ:103:MET:CE	5:qp:174:ARG:CZ	2.72	0.68
1:bV:100:LYS:HB2	2:dr:197:LYS:HG2	1.76	0.68
1:bW:103:ARG:HD3	2:hW:61:GLY:O	1.93	0.68
2:bZ:5:THR:HG22	1:iP:90:LEU:HD22	1.76	0.68
1:cl:101:VAL:CG1	2:iv:198:GLU:CD	2.58	0.68
2:cn:52:GLN:OE1	2:cn:52:GLN:N	2.23	0.68
2:cP:141:HIS:NE2	2:cP:150:THR:OG1	2.26	0.68
2:dF:197:LYS:HG2	1:pc:100:LYS:HB2	1.76	0.68
2:dJ:192:PHE:HZ	2:eZ:196:THR:HG21	1.57	0.68
2:dT:21:GLN:NE2	2:dT:105:GLU:OE2	2.26	0.68
2:dU:68:MET:HE3	2:dX:84:VAL:HG21	1.76	0.68
1:eH:100:LYS:HZ1	1:gv:100:LYS:CD	2.07	0.68
2:fk:278:VAL:HG11	2:fk:295:VAL:O	1.93	0.68
2:fm:60:ILE:HG23	1:gy:105:THR:HG21	1.75	0.68
2:fn:81:GLU:O	2:fq:57:ARG:N	2.24	0.68
1:fu:103:ARG:CG	2:mj:61:GLY:O	2.42	0.68
1:fx:102:GLU:CD	2:nm:197:LYS:HE3	2.19	0.68
2:fz:5:THR:HG22	1:mo:90:LEU:HD22	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fz:62:GLN:OE1	2:nr:197:LYS:HA	1.93	0.68
2:fz:141:HIS:NE2	2:fz:150:THR:OG1	2.26	0.68
2:fE:182:LEU:HD12	2:fE:182:LEU:O	1.94	0.68
1:fK:103:ARG:HD3	2:kF:61:GLY:O	1.94	0.68
2:fS:182:LEU:O	2:fS:182:LEU:HD12	1.93	0.68
2:gd:197:LYS:CD	1:ie:99:LEU:CA	2.69	0.68
2:gf:182:LEU:HD12	2:gf:182:LEU:O	1.93	0.68
2:gp:62:GLN:OE1	2:hY:197:LYS:HA	1.93	0.68
1:hb:100:LYS:HB2	2:lG:197:LYS:HG2	1.76	0.68
1:hc:102:GLU:CD	1:ox:99:LEU:CD1	2.60	0.68
2:hG:68:MET:HE3	2:hJ:84:VAL:HG21	1.76	0.68
1:ip:105:THR:CG2	2:lu:60:ILE:HG12	2.23	0.68
1:is:103:ARG:HD3	2:ot:61:GLY:O	1.94	0.68
1:jg:103:ARG:CG	2:lt:61:GLY:O	2.42	0.68
2:jk:278:VAL:HG11	2:jk:295:VAL:O	1.93	0.68
1:jt:60:ARG:NE	1:jV:99:LEU:CG	2.53	0.68
1:jv:100:LYS:HB2	2:le:197:LYS:HG2	1.76	0.68
2:jA:61:GLY:CA	1:kZ:103:ARG:HG3	2.24	0.68
1:jZ:99:LEU:HG	1:ly:102:GLU:OE2	1.74	0.68
1:kx:103:ARG:CG	2:kR:61:GLY:O	2.42	0.68
2:kC:141:HIS:NE2	2:kC:150:THR:OG1	2.26	0.68
1:lc:102:GLU:CD	2:mK:197:LYS:HE3	2.19	0.68
2:lu:81:GLU:O	2:lx:57:ARG:N	2.24	0.68
2:lw:87:LYS:NZ	2:lw:201:GLU:OE1	2.27	0.68
2:lG:63:ARG:NE	2:mY:205:MET:HE2	2.08	0.68
2:IV:163:ALA:HB3	2:IV:265:VAL:CG1	2.23	0.68
2:IY:171:TYR:OH	2:IY:175:THR:OG1	2.12	0.68
2:mi:205:MET:HE2	2:mw:63:ARG:NE	2.08	0.68
2:nb:86:VAL:HG23	2:nb:202:GLN:HB2	1.76	0.68
2:nd:182:LEU:O	2:nd:182:LEU:HD12	1.94	0.68
1:nj:99:LEU:HD21	1:oz:60:ARG:CD	2.18	0.68
2:np:86:VAL:O	2:np:202:GLN:N	2.27	0.68
2:nQ:60:ILE:HG12	1:pa:105:THR:CG2	2.23	0.68
2:nS:182:LEU:HD12	2:nS:182:LEU:O	1.93	0.68
2:of:86:VAL:HG23	2:of:202:GLN:HB2	1.76	0.68
2:oH:86:VAL:O	2:oH:202:GLN:N	2.27	0.68
2:pu:5:THR:HG22	1:pO:90:LEU:HD22	1.76	0.68
2:pu:21:GLN:NE2	2:pu:105:GLU:OE2	2.26	0.68
2:qb:182:LEU:HD12	2:qb:182:LEU:O	1.94	0.68
3:qd:55:GLU:CB	4:qn:223:ASN:HD22	2.07	0.68
3:qe:68:ALA:HB2	4:ql:222:GLY:O	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:qq:58:LEU:CB	6:qM:112:LEU:CD2	2.71	0.68
5:qr:194:ARG:NH2	5:qt:125:ASP:OD1	2.27	0.68
5:qv:245:ASP:OD2	6:qy:121:VAL:HG23	1.91	0.68
5:qz:317:PHE:HZ	5:qB:319:LEU:HD11	1.59	0.68
2:aj:197:LYS:CD	1:oP:99:LEU:CA	2.69	0.67
1:aD:103:ARG:HG3	2:iY:61:GLY:CA	2.24	0.67
2:aK:60:ILE:HG12	1:kK:105:THR:CG2	2.23	0.67
2:aW:83:THR:HG21	2:bk:65:ILE:HG13	1.76	0.67
2:bk:21:GLN:NE2	2:bk:105:GLU:OE2	2.26	0.67
2:bl:68:MET:HE3	2:bo:84:VAL:HG21	1.76	0.67
1:bv:103:ARG:HD3	2:dI:61:GLY:O	1.94	0.67
1:bG:99:LEU:HD22	1:gL:102:GLU:HB2	1.73	0.67
2:bM:61:GLY:CA	1:hB:103:ARG:HG3	2.24	0.67
1:bU:60:ARG:CD	1:iG:99:LEU:HD21	2.18	0.67
2:cn:65:ILE:HG13	2:iv:83:THR:HG21	1.76	0.67
2:cA:278:VAL:HG11	2:cA:295:VAL:O	1.93	0.67
2:cB:197:LYS:HG2	1:cL:100:LYS:HB2	1.76	0.67
2:cC:61:GLY:CA	1:pb:103:ARG:HG3	2.24	0.67
2:dT:187:ARG:NH2	2:dY:190:PRO:O	2.27	0.67
2:dV:60:ILE:HG12	1:pC:105:THR:CG2	2.23	0.67
1:ec:103:ARG:CG	2:ew:61:GLY:O	2.42	0.67
2:em:182:LEU:HD12	2:em:182:LEU:O	1.94	0.67
1:eq:103:ARG:CG	2:gE:61:GLY:O	2.42	0.67
2:ex:60:ILE:HG12	1:nI:105:THR:CG2	2.23	0.67
2:eK:163:ALA:HB3	2:eK:265:VAL:CG1	2.23	0.67
2:eM:61:GLY:O	1:gO:103:ARG:HD3	1.94	0.67
2:eY:68:MET:HE3	2:fb:84:VAL:HG21	1.76	0.67
2:fq:243:TYR:CE1	2:fq:294:LEU:HD21	2.28	0.67
1:fx:100:LYS:HZ1	1:ns:100:LYS:CD	2.07	0.67
2:fC:86:VAL:HG23	2:fC:202:GLN:HB2	1.76	0.67
2:fP:186:GLU:O	2:mx:191:SER:OG	2.08	0.67
2:fQ:86:VAL:O	2:fQ:202:GLN:N	2.27	0.67
1:fV:99:LEU:HD22	1:mc:102:GLU:HB2	1.73	0.67
2:gs:86:VAL:HG23	2:gs:202:GLN:HB2	1.76	0.67
2:gE:163:ALA:HB3	2:gE:265:VAL:CG1	2.23	0.67
2:hf:83:THR:HG21	2:kC:65:ILE:HG13	1.76	0.67
2:hk:197:LYS:HA	2:kC:62:GLN:OE1	1.93	0.67
1:hn:102:GLU:HB2	1:kK:99:LEU:HD22	1.74	0.67
1:ho:99:LEU:CA	2:kR:197:LYS:HZ1	2.05	0.67
2:hx:18:LYS:HG3	5:qz:51:GLU:OE2	1.94	0.67
2:hF:32:LEU:HA	5:qv:178:PRO:HD2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hS:163:ALA:HB3	2:hS:265:VAL:CG1	2.25	0.67
2:hT:187:ARG:NH2	2:hY:190:PRO:O	2.28	0.67
2:hU:68:MET:HE3	2:hX:84:VAL:HG21	1.76	0.67
1:ie:103:ARG:HD3	2:nD:61:GLY:O	1.94	0.67
2:iy:86:VAL:HG23	2:iy:202:GLN:HB2	1.76	0.67
2:iJ:52:GLN:N	2:iJ:52:GLN:OE1	2.23	0.67
2:iX:187:ARG:NH2	2:jc:190:PRO:O	2.28	0.67
2:jl:21:GLN:NE2	2:jl:105:GLU:OE2	2.26	0.67
2:jn:197:LYS:CD	1:lp:99:LEU:CA	2.69	0.67
2:jp:182:LEU:HD12	2:jp:182:LEU:O	1.93	0.67
2:jB:60:ILE:HG12	1:mS:105:THR:CG2	2.23	0.67
2:kb:141:HIS:NE2	2:kb:150:THR:OG1	2.26	0.67
2:kg:182:LEU:HD12	2:kg:182:LEU:O	1.94	0.67
2:kg:243:TYR:CE1	2:kg:294:LEU:HD21	2.28	0.67
2:ko:163:ALA:HB3	2:ko:265:VAL:CG1	2.25	0.67
2:kp:68:MET:HE3	2:ks:84:VAL:HG21	1.76	0.67
2:kq:81:GLU:O	2:kt:57:ARG:N	2.24	0.67
2:kH:243:TYR:CE1	2:kH:294:LEU:HD21	2.28	0.67
1:kL:103:ARG:CG	2:mZ:61:GLY:O	2.42	0.67
2:mN:86:VAL:HG23	2:mN:202:GLN:HB2	1.76	0.67
2:nm:141:HIS:NE2	2:nm:150:THR:OG1	2.26	0.67
2:nn:61:GLY:CA	1:oz:103:ARG:HG3	2.24	0.67
2:od:68:MET:HE3	2:og:84:VAL:HG21	1.76	0.67
2:ot:86:VAL:HG23	2:ot:202:GLN:HB2	1.76	0.67
2:oE:21:GLN:NE2	2:oE:105:GLU:OE2	2.26	0.67
2:pW:184:TYR:HH	2:pW:204:PHE:HD1	1.38	0.67
2:pW:187:ARG:NH2	2:qb:190:PRO:O	2.28	0.67
3:qg:66:GLN:C	4:qk:10:GLN:CG	2.67	0.67
5:qp:398:TRP:CH2	5:qr:405:ILE:CD1	2.72	0.67
5:qt:194:ARG:NH2	5:qv:125:ASP:OD1	2.27	0.67
5:qF:317:PHE:HZ	5:qH:319:LEU:HD11	1.59	0.67
1:af:102:GLU:CD	2:oc:197:LYS:HE3	2.19	0.67
1:bt:103:ARG:HG3	2:hU:61:GLY:CA	2.24	0.67
2:by:141:HIS:NE2	2:by:150:THR:OG1	2.26	0.67
2:bA:60:ILE:HG12	1:eR:105:THR:CG2	2.23	0.67
2:bC:192:PHE:HZ	2:df:196:THR:HG21	1.57	0.67
2:bZ:52:GLN:N	2:bZ:52:GLN:OE1	2.24	0.67
2:bZ:83:THR:HG21	2:iJ:65:ILE:HG13	1.76	0.67
2:ce:182:LEU:HD12	2:ce:182:LEU:O	1.93	0.67
1:cj:100:LYS:HB2	2:iv:197:LYS:HG2	1.76	0.67
1:cw:105:THR:HG21	2:cQ:60:ILE:HG23	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cB:187:ARG:NH2	2:cG:190:PRO:O	2.28	0.67
2:cO:278:VAL:HG11	2:cO:295:VAL:O	1.93	0.67
1:cW:99:LEU:CD1	1:fi:102:GLU:CD	2.60	0.67
2:dd:187:ARG:NH2	2:di:190:PRO:O	2.28	0.67
2:dg:86:VAL:O	2:dg:202:GLN:N	2.27	0.67
1:do:103:ARG:HD3	2:kr:61:GLY:O	1.94	0.67
2:dr:187:ARG:NH2	2:dw:190:PRO:O	2.28	0.67
2:dE:278:VAL:HG11	2:dE:295:VAL:O	1.93	0.67
2:dS:163:ALA:HB3	2:dS:265:VAL:CG1	2.25	0.67
2:dT:184:TYR:HH	2:dT:204:PHE:HD1	1.37	0.67
1:ec:105:THR:HG21	2:ew:60:ILE:HG23	1.75	0.67
2:eh:197:LYS:HE3	1:et:102:GLU:CD	2.19	0.67
2:em:243:TYR:CE1	2:em:294:LEU:HD21	2.28	0.67
2:eu:163:ALA:HB3	2:eu:265:VAL:CG1	2.25	0.67
2:ez:171:TYR:HH	2:ez:175:THR:HG1	1.40	0.67
2:eA:182:LEU:HD12	2:eA:182:LEU:O	1.93	0.67
2:eW:278:VAL:HG11	2:eW:295:VAL:O	1.93	0.67
2:fb:182:LEU:HD12	2:fb:182:LEU:O	1.93	0.67
1:fw:99:LEU:CA	2:no:197:LYS:CD	2.69	0.67
2:fN:187:ARG:NH2	2:fS:190:PRO:O	2.28	0.67
2:fO:68:MET:HE3	2:fR:84:VAL:HG21	1.76	0.67
1:fV:105:THR:CG2	2:nC:60:ILE:HG12	2.23	0.67
2:gb:21:GLN:NE2	2:gb:105:GLU:OE2	2.26	0.67
1:gl:100:LYS:HB2	2:hT:197:LYS:HG2	1.76	0.67
2:gC:278:VAL:HG11	2:gC:295:VAL:O	1.93	0.67
2:gD:187:ARG:NH2	2:gI:190:PRO:O	2.28	0.67
2:gQ:163:ALA:HB3	2:gQ:265:VAL:CG1	2.25	0.67
2:gW:243:TYR:CE1	2:gW:294:LEU:HD21	2.28	0.67
1:gY:99:LEU:CD1	1:oB:102:GLU:CD	2.60	0.67
1:hq:103:ARG:HD3	2:ja:61:GLY:O	1.93	0.67
2:iW:278:VAL:HG11	2:iW:295:VAL:O	1.94	0.67
1:jg:105:THR:HG21	2:lt:60:ILE:HG23	1.75	0.67
2:jl:187:ARG:NH2	2:jQ:190:PRO:O	2.28	0.67
2:jQ:86:VAL:HG23	2:jQ:202:GLN:HB2	1.76	0.67
2:ka:278:VAL:HG11	2:ka:295:VAL:O	1.93	0.67
2:kC:187:ARG:NH2	2:kH:190:PRO:O	2.28	0.67
1:kL:60:ARG:CD	1:mV:99:LEU:HD21	2.18	0.67
1:kL:105:THR:HG21	2:mZ:60:ILE:HG23	1.75	0.67
2:le:65:ILE:HG13	2:mK:83:THR:HG21	1.76	0.67
2:le:187:ARG:NH2	2:lj:190:PRO:O	2.28	0.67
2:lf:61:GLY:O	1:mF:103:ARG:CG	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lt:68:MET:HE3	2:lw:84:VAL:HG21	1.76	0.67
2:lZ:243:TYR:CE1	2:lZ:294:LEU:HD21	2.28	0.67
2:mw:187:ARG:NH2	2:mB:190:PRO:O	2.28	0.67
2:mw:198:GLU:CD	1:oC:101:VAL:CG1	2.58	0.67
2:mx:163:ALA:HB3	2:mx:265:VAL:CG1	2.23	0.67
2:mK:52:GLN:N	2:mK:52:GLN:OE1	2.23	0.67
2:nr:182:LEU:HD12	2:nr:182:LEU:O	1.94	0.67
2:nO:83:THR:HG21	2:oc:65:ILE:HG13	1.76	0.67
2:op:163:ALA:HB3	2:op:265:VAL:CG1	2.25	0.67
2:ou:171:TYR:HH	2:ou:175:THR:HG1	1.42	0.67
2:oE:187:ARG:NH2	2:oJ:190:PRO:O	2.28	0.67
2:oS:21:GLN:NE2	2:oS:105:GLU:OE2	2.26	0.67
2:pH:163:ALA:HB3	2:pH:265:VAL:CG1	2.25	0.67
3:qg:66:GLN:C	4:qk:10:GLN:HG3	2.19	0.67
5:qv:194:ARG:NH2	5:qx:125:ASP:OD1	2.27	0.67
5:qB:317:PHE:HZ	5:qD:319:LEU:HD11	1.59	0.67
1:as:103:ARG:HD3	2:gs:61:GLY:O	1.93	0.67
2:ax:86:VAL:HG23	2:ax:202:GLN:HB2	1.76	0.67
1:aC:102:GLU:HB2	1:hn:99:LEU:HD22	1.74	0.67
2:aK:81:GLU:O	2:aN:57:ARG:N	2.24	0.67
2:aX:61:GLY:CA	1:iE:103:ARG:HG3	2.24	0.67
2:aX:163:ALA:HB3	2:aX:265:VAL:CG1	2.23	0.67
2:bj:163:ALA:HB3	2:bj:265:VAL:CG1	2.25	0.67
2:bm:197:LYS:CD	1:do:99:LEU:HA	2.13	0.67
1:cw:103:ARG:HG3	2:cQ:61:GLY:CA	2.24	0.67
2:cB:5:THR:HG22	1:cV:90:LEU:HD22	1.76	0.67
2:cP:197:LYS:HE3	1:eV:102:GLU:CD	2.19	0.67
2:cU:182:LEU:HD12	2:cU:182:LEU:O	1.94	0.67
2:dh:182:LEU:O	2:dh:182:LEU:HD12	1.94	0.67
1:dQ:103:ARG:HD3	2:jQ:61:GLY:O	1.94	0.67
2:dT:83:THR:HG21	2:nO:65:ILE:HG13	1.76	0.67
1:eD:60:ARG:NH1	1:ff:99:LEU:CD1	2.26	0.67
2:fI:5:THR:HG22	1:nG:90:LEU:HD22	1.76	0.67
1:fH:105:THR:CG2	2:my:60:ILE:HG12	2.23	0.67
2:gg:182:LEU:HD12	2:gg:182:LEU:O	1.93	0.67
2:gp:187:ARG:NH2	2:gu:190:PRO:O	2.28	0.67
2:gq:61:GLY:CA	1:hO:103:ARG:HG3	2.24	0.67
1:gA:103:ARG:HD3	2:pj:61:GLY:O	1.94	0.67
2:hk:243:TYR:CE1	2:hk:294:LEU:HD21	2.28	0.67
1:ho:103:ARG:HG3	2:hG:61:GLY:CA	2.24	0.67
2:hG:163:ALA:HB3	2:hG:265:VAL:CG1	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hI:86:VAL:HG23	2:hI:202:GLN:HB2	1.76	0.67
2:ii:163:ALA:HB3	2:ii:265:VAL:CG1	2.23	0.67
2:iw:163:ALA:HB3	2:iw:265:VAL:CG1	2.23	0.67
1:iS:103:ARG:HG3	2:jm:61:GLY:CA	2.24	0.67
2:iZ:60:ILE:HG12	1:kj:105:THR:CG2	2.23	0.67
2:jb:87:LYS:NZ	2:jb:201:GLU:OE1	2.27	0.67
2:jz:62:GLN:OE1	2:lj:197:LYS:HA	1.93	0.67
2:kb:184:TYR:HH	2:kb:204:PHE:HD1	1.37	0.67
2:kb:187:ARG:NH2	2:kg:190:PRO:O	2.28	0.67
2:kp:163:ALA:HB3	2:kp:265:VAL:CG1	2.23	0.67
2:kC:83:THR:HG21	2:kQ:65:ILE:HG13	1.76	0.67
2:kP:163:ALA:HB3	2:kP:265:VAL:CG1	2.25	0.67
2:kP:278:VAL:HG11	2:kP:295:VAL:O	1.93	0.67
2:kV:182:LEU:O	2:kV:182:LEU:HD12	1.93	0.67
1:lD:99:LEU:CA	2:na:197:LYS:CD	2.68	0.67
2:lH:61:GLY:CA	1:mT:103:ARG:HG3	2.24	0.67
2:lL:243:TYR:CE1	2:lL:294:LEU:HD21	2.28	0.67
2:mv:278:VAL:HG11	2:mv:295:VAL:O	1.93	0.67
2:mB:182:LEU:O	2:mB:182:LEU:HD12	1.94	0.67
2:nm:187:ARG:NH2	2:nr:190:PRO:O	2.28	0.67
2:nq:182:LEU:HD12	2:nq:182:LEU:O	1.93	0.67
2:nz:163:ALA:HB3	2:nz:265:VAL:CG1	2.25	0.67
2:nE:87:LYS:NZ	2:nE:201:GLU:OE1	2.27	0.67
1:nJ:103:ARG:CG	2:od:61:GLY:O	2.42	0.67
2:or:61:GLY:O	1:pR:103:ARG:CG	2.42	0.67
2:pf:163:ALA:HB3	2:pf:265:VAL:CG1	2.25	0.67
2:pH:278:VAL:HG11	2:pH:295:VAL:O	1.93	0.67
2:pW:141:HIS:NE2	2:pW:150:THR:OG1	2.26	0.67
3:qd:67:ARG:CB	4:qn:194:LEU:CD1	2.72	0.67
3:qg:68:ALA:HB2	4:qk:8:TYR:CE2	2.29	0.67
5:qv:317:PHE:HZ	5:qx:319:LEU:HD11	1.59	0.67
5:qx:317:PHE:HZ	5:qz:319:LEU:HD11	1.59	0.67
5:qF:194:ARG:NH2	5:qH:125:ASP:OD1	2.27	0.67
1:ab:99:LEU:HD22	1:ng:102:GLU:HB2	1.73	0.67
2:ag:163:ALA:HB3	2:ag:265:VAL:CG1	2.25	0.67
2:ag:278:VAL:HG11	2:ag:295:VAL:O	1.93	0.67
1:ap:105:THR:CG2	2:dt:60:ILE:HG12	2.23	0.67
2:aw:196:THR:HG21	2:ks:192:PHE:HZ	1.57	0.67
2:aJ:60:ILE:HG23	1:jW:105:THR:HG21	1.75	0.67
2:aV:163:ALA:HB3	2:aV:265:VAL:CG1	2.25	0.67
2:bk:197:LYS:HE3	1:dp:102:GLU:CD	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bt:103:ARG:CG	2:hU:61:GLY:O	2.42	0.67
1:bt:105:THR:HG21	2:hU:60:ILE:HG23	1.75	0.67
2:bZ:187:ARG:NH2	2:ce:190:PRO:O	2.28	0.67
1:ci:103:ARG:CG	2:pv:61:GLY:O	2.42	0.67
2:cn:198:GLU:CD	1:ps:101:VAL:CG1	2.58	0.67
1:cv:60:ARG:NH1	1:pC:99:LEU:CD1	2.25	0.67
2:cS:61:GLY:O	1:pF:103:ARG:HD3	1.94	0.67
1:dk:99:LEU:CD1	1:km:102:GLU:CD	2.60	0.67
2:dq:278:VAL:HG11	2:dq:295:VAL:O	1.93	0.67
2:dG:61:GLY:O	1:eS:103:ARG:CG	2.42	0.67
2:dV:81:GLU:O	2:dY:57:ARG:N	2.24	0.67
2:dW:61:GLY:O	1:jK:103:ARG:HD3	1.94	0.67
1:ed:100:LYS:HB2	2:nA:197:LYS:HG2	1.76	0.67
2:eh:62:GLN:OE1	2:nF:197:LYS:HA	1.93	0.67
2:eh:187:ARG:NH2	2:em:190:PRO:O	2.28	0.67
2:ei:68:MET:HE3	2:el:84:VAL:HG21	1.76	0.67
2:ev:187:ARG:NH2	2:eA:190:PRO:O	2.28	0.67
1:eD:99:LEU:HD22	1:ib:102:GLU:HB2	1.73	0.67
1:eH:102:GLU:CD	2:gp:197:LYS:HE3	2.20	0.67
2:eM:86:VAL:HG23	2:eM:202:GLN:HB2	1.76	0.67
2:fc:182:LEU:HD12	2:fc:182:LEU:O	1.94	0.67
1:fu:103:ARG:HG3	2:mj:61:GLY:CA	2.24	0.67
2:fz:83:THR:HG21	2:mi:65:ILE:HG13	1.76	0.67
2:fz:187:ARG:NH2	2:fE:190:PRO:O	2.28	0.67
2:fR:182:LEU:HD12	2:fR:182:LEU:O	1.93	0.67
2:gV:182:LEU:HD12	2:gV:182:LEU:O	1.93	0.67
1:gX:100:LYS:CD	1:lS:100:LYS:HZ1	2.07	0.67
2:hF:5:THR:HG22	1:kI:90:LEU:HD22	1.76	0.67
1:it:102:GLU:CD	2:jN:197:LYS:HE3	2.19	0.67
2:ix:60:ILE:HG12	1:pQ:105:THR:CG2	2.23	0.67
2:iA:182:LEU:HD12	2:iA:182:LEU:O	1.94	0.67
1:iS:103:ARG:CG	2:jm:61:GLY:O	2.42	0.67
2:jC:197:LYS:HA	2:jl:62:GLN:OE1	1.93	0.67
1:jx:100:LYS:HZ1	1:lk:100:LYS:CD	2.07	0.67
2:jA:60:ILE:HG23	1:kZ:105:THR:HG21	1.75	0.67
1:jH:99:LEU:CD1	1:oM:60:ARG:NH1	2.25	0.67
1:jH:105:THR:CG2	2:os:60:ILE:HG12	2.23	0.67
2:ka:163:ALA:HB3	2:ka:265:VAL:CG1	2.25	0.67
2:kC:5:THR:HG22	1:kW:90:LEU:HD22	1.76	0.67
2:kH:197:LYS:HA	2:kQ:62:GLN:OE1	1.93	0.67
2:lF:278:VAL:HG11	2:lF:295:VAL:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lZ:182:LEU:HD12	2:lZ:182:LEU:O	1.93	0.67
2:mi:141:HIS:NE2	2:mi:150:THR:OG1	2.26	0.67
2:mL:61:GLY:O	1:ol:103:ARG:CG	2.42	0.67
2:mL:68:MET:HE3	2:mO:84:VAL:HG21	1.76	0.67
2:or:68:MET:HE3	2:ou:84:VAL:HG21	1.76	0.67
2:oS:187:ARG:NH2	2:oX:190:PRO:O	2.28	0.67
2:ph:163:ALA:HB3	2:ph:265:VAL:CG1	2.23	0.67
2:py:182:LEU:HD12	2:py:182:LEU:O	1.93	0.67
2:pz:182:LEU:O	2:pz:182:LEU:HD12	1.94	0.67
2:qa:182:LEU:HD12	2:qa:182:LEU:O	1.93	0.67
3:qg:65:GLY:CA	4:qk:10:GLN:NE2	2.57	0.67
6:qq:126:GLN:HG3	5:qL:252:LEU:HD22	1.69	0.67
5:qt:317:PHE:HZ	5:qv:319:LEU:HD11	1.59	0.67
5:qD:194:ARG:NH2	5:qF:125:ASP:OD1	2.27	0.67
5:qJ:317:PHE:HZ	5:qL:319:LEU:HD11	1.59	0.67
2:ah:187:ARG:NH2	2:am:190:PRO:O	2.28	0.67
2:ah:197:LYS:HE3	1:oQ:102:GLU:CD	2.19	0.67
1:aQ:99:LEU:CD1	1:ch:60:ARG:NH1	2.25	0.67
1:aQ:105:THR:CG2	2:jn:60:ILE:HG12	2.23	0.67
2:bk:83:THR:HG21	2:dr:65:ILE:HG13	1.76	0.67
2:bx:278:VAL:HG11	2:bx:295:VAL:O	1.93	0.67
2:bz:191:SER:OG	2:eZ:186:GLU:O	2.08	0.67
2:bB:86:VAL:HG23	2:bB:202:GLN:HB2	1.76	0.67
1:cl:100:LYS:NZ	1:iB:100:LYS:CG	2.40	0.67
2:cp:60:ILE:HG12	1:jf:105:THR:CG2	2.23	0.67
1:ct:90:LEU:HD22	2:iv:5:THR:HG22	1.76	0.67
2:cB:65:ILE:HG13	2:pg:83:THR:HG21	1.76	0.67
2:cP:187:ARG:NH2	2:cU:190:PRO:O	2.28	0.67
2:cP:197:LYS:HG2	1:eT:100:LYS:HB2	1.76	0.67
2:dE:163:ALA:HB3	2:dE:265:VAL:CG1	2.25	0.67
1:dP:100:LYS:HB2	2:oS:197:LYS:HG2	1.76	0.67
2:dX:182:LEU:HD12	2:dX:182:LEU:O	1.93	0.67
1:ee:103:ARG:HD3	2:ml:61:GLY:O	1.93	0.67
1:ef:100:LYS:HZ1	1:nG:100:LYS:CD	2.06	0.67
2:ej:197:LYS:CD	1:es:99:LEU:CA	2.68	0.67
1:eG:102:GLU:CD	1:gK:99:LEU:CD1	2.60	0.67
2:eK:61:GLY:O	1:gk:103:ARG:CG	2.42	0.67
1:fg:103:ARG:HG3	2:nB:61:GLY:CA	2.24	0.67
2:fk:163:ALA:HB3	2:fk:265:VAL:CG1	2.25	0.67
2:fm:61:GLY:CA	1:gy:103:ARG:HG3	2.24	0.67
1:fu:105:THR:HG21	2:mj:60:ILE:HG23	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fz:197:LYS:HE3	1:mg:102:GLU:CD	2.19	0.67
1:fT:90:LEU:HD22	2:lU:5:THR:HG22	1.76	0.67
1:fY:103:ARG:HD3	2:mz:61:GLY:O	1.94	0.67
2:gb:197:LYS:HE3	1:if:102:GLU:CD	2.20	0.67
1:gn:102:GLU:CD	2:hT:197:LYS:HE3	2.20	0.67
2:go:163:ALA:HB3	2:go:265:VAL:CG1	2.25	0.67
2:gR:197:LYS:HE3	1:lS:102:GLU:CD	2.20	0.67
2:hF:187:ARG:NH2	2:hk:190:PRO:O	2.28	0.67
1:ho:103:ARG:CG	2:hG:61:GLY:O	2.42	0.67
2:ig:163:ALA:HB3	2:ig:265:VAL:CG1	2.25	0.67
2:iv:187:ARG:NH2	2:iA:190:PRO:O	2.28	0.67
2:iI:163:ALA:HB3	2:iI:265:VAL:CG1	2.25	0.67
1:iR:99:LEU:HD22	1:kj:102:GLU:HB2	1.73	0.67
2:ks:182:LEU:HD12	2:ks:182:LEU:O	1.93	0.67
2:kG:182:LEU:HD12	2:kG:182:LEU:O	1.94	0.67
1:lE:102:GLU:CD	2:mY:197:LYS:HE3	2.19	0.67
2:mw:52:GLN:N	2:mw:52:GLN:OE1	2.23	0.67
1:mH:99:LEU:HA	2:os:197:LYS:CD	2.13	0.67
2:mN:61:GLY:O	1:oP:103:ARG:HD3	1.94	0.67
2:mX:163:ALA:HB3	2:mX:265:VAL:CG1	2.25	0.67
2:mY:141:HIS:NE2	2:mY:150:THR:OG1	2.26	0.67
2:pV:163:ALA:HB3	2:pV:265:VAL:CG1	2.25	0.67
2:pV:278:VAL:HG11	2:pV:295:VAL:O	1.93	0.67
3:qe:68:ALA:HA	4:qm:8:TYR:CE2	2.27	0.67
3:qh:68:ALA:CA	4:qj:8:TYR:HE2	2.08	0.67
5:qp:194:ARG:NH2	5:qr:125:ASP:OD1	2.27	0.67
5:qD:317:PHE:HZ	5:qF:319:LEU:HD11	1.59	0.67
5:qH:194:ARG:NH2	5:qJ:125:ASP:OD1	2.27	0.67
2:ai:68:MET:HE3	2:al:84:VAL:HG21	1.76	0.67
1:aQ:103:ARG:CG	2:kp:61:GLY:O	2.42	0.67
2:av:68:MET:HE3	2:ay:84:VAL:HG21	1.76	0.67
2:bb:182:LEU:HD12	2:bb:182:LEU:O	1.93	0.67
1:be:99:LEU:CD1	1:iR:60:ARG:NH2	2.52	0.67
2:bn:61:GLY:O	1:ji:103:ARG:HD3	1.94	0.67
1:bs:60:ARG:NH1	1:bT:99:LEU:CD1	2.25	0.67
1:bw:102:GLU:CD	2:dd:197:LYS:HE3	2.20	0.67
2:by:197:LYS:HE3	1:hR:102:GLU:CD	2.19	0.67
2:bC:171:TYR:OH	2:bC:175:THR:OG1	2.12	0.67
2:bQ:107:GLY:CA	5:qp:176:ASN:CG	2.64	0.67
1:cw:103:ARG:CG	2:cQ:61:GLY:O	2.42	0.67
1:cy:103:ARG:HD3	2:nR:61:GLY:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cO:163:ALA:HB3	2:cO:265:VAL:CG1	2.25	0.67
2:cT:87:LYS:NZ	2:cT:201:GLU:OE1	2.27	0.67
2:dd:65:ILE:HG13	2:eJ:83:THR:HG21	1.76	0.67
2:de:60:ILE:CG2	1:eE:105:THR:CG2	2.62	0.67
1:eb:60:ARG:NH1	1:nW:99:LEU:CD1	2.26	0.67
2:eh:197:LYS:HG2	1:er:100:LYS:HB2	1.76	0.67
1:fi:99:LEU:CA	2:gF:197:LYS:CD	2.69	0.67
2:fA:61:GLY:O	1:nh:103:ARG:CG	2.42	0.67
2:fE:243:TYR:CE1	2:fE:294:LEU:HD21	2.28	0.67
1:fl:103:ARG:CG	2:gc:61:GLY:O	2.42	0.67
2:fM:67:ASP:OD1	1:fT:95:SER:OG	2.13	0.67
2:gb:5:THR:HG22	1:in:90:LEU:HD22	1.76	0.67
2:gb:197:LYS:HG2	1:id:100:LYS:HB2	1.76	0.67
2:gc:163:ALA:HB3	2:gc:265:VAL:CG1	2.23	0.67
2:gq:61:GLY:O	1:hO:103:ARG:CG	2.42	0.67
2:gC:163:ALA:HB3	2:gC:265:VAL:CG1	2.25	0.67
2:gU:86:VAL:HG23	2:gU:202:GLN:HB2	1.76	0.67
2:gV:192:PHE:HZ	2:ij:196:THR:HG21	1.57	0.67
2:gW:197:LYS:HA	2:lU:62:GLN:OE1	1.93	0.67
2:hh:60:ILE:HG12	1:mQ:105:THR:CG2	2.23	0.67
2:hj:192:PHE:HZ	2:li:196:THR:HG21	1.57	0.67
2:hT:21:GLN:NE2	2:hT:105:GLU:OE2	2.26	0.67
2:iJ:141:HIS:NE2	2:iJ:150:THR:OG1	2.26	0.67
2:jk:163:ALA:HB3	2:jk:265:VAL:CG1	2.25	0.67
2:jl:75:ILE:HG21	2:jl:177:ARG:HH12	1.60	0.67
2:jo:86:VAL:HG23	2:jo:202:GLN:HB2	1.76	0.67
2:jy:163:ALA:HB3	2:jy:265:VAL:CG1	2.25	0.67
2:jz:187:ARG:NH2	2:jE:190:PRO:O	2.28	0.67
2:jM:163:ALA:HB3	2:jM:265:VAL:CG1	2.25	0.67
2:ko:32:LEU:HD22	5:qF:177:SER:HA	1.72	0.67
2:kB:67:ASP:OD1	1:kI:95:SER:OG	2.13	0.67
2:kR:68:MET:HE3	2:kU:84:VAL:HG21	1.76	0.67
2:lf:60:ILE:HG23	1:mF:105:THR:HG21	1.75	0.67
1:lm:60:ARG:NH1	1:pQ:99:LEU:CD1	2.26	0.67
2:lG:65:ILE:HG13	2:mY:83:THR:HG21	1.76	0.67
2:lH:163:ALA:HB3	2:lH:265:VAL:CG1	2.23	0.67
2:lT:163:ALA:HB3	2:lT:265:VAL:CG1	2.25	0.67
2:mm:182:LEU:O	2:mm:182:LEU:HD12	1.93	0.67
2:mn:182:LEU:O	2:mn:182:LEU:HD12	1.93	0.67
2:nB:68:MET:HE3	2:nE:84:VAL:HG21	1.76	0.67
2:pu:187:ARG:NH2	2:pz:190:PRO:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pv:163:ALA:HB3	2:pv:265:VAL:CG1	2.23	0.67
2:pL:86:VAL:HG23	2:pL:202:GLN:HB2	1.76	0.67
2:pZ:86:VAL:HG23	2:pZ:202:GLN:HB2	1.76	0.67
3:qd:84:TYR:CZ	6:qs:20:GLU:HG2	2.28	0.67
3:qh:67:ARG:HB3	4:qj:194:LEU:HD13	1.76	0.67
3:qi:66:GLN:CA	4:qo:8:TYR:CD2	2.77	0.67
5:qr:317:PHE:HZ	5:qt:319:LEU:HD11	1.59	0.67
5:qB:398:TRP:CH2	5:qD:405:ILE:CD1	2.72	0.67
6:qI:8:ASP:O	6:qK:39:ARG:NH1	2.28	0.67
2:ai:61:GLY:O	1:nX:103:ARG:CG	2.42	0.67
2:au:170:TRP:HA	5:qJ:177:SER:CA	2.18	0.67
2:av:61:GLY:O	1:bH:103:ARG:CG	2.42	0.67
1:aD:105:THR:HG21	2:iY:60:ILE:HG23	1.75	0.67
2:aI:62:GLN:OE1	2:kg:197:LYS:HA	1.93	0.67
2:aJ:61:GLY:CA	1:jW:103:ARG:HG3	2.24	0.67
2:aW:75:ILE:HG21	2:aW:177:ARG:HH12	1.60	0.67
2:bC:87:LYS:NZ	2:bC:201:GLU:OE1	2.27	0.67
2:cn:197:LYS:HE3	1:ps:102:GLU:CD	2.19	0.67
2:cq:86:VAL:HG23	2:cq:202:GLN:HB2	1.76	0.67
2:cB:83:THR:HG21	2:cP:65:ILE:HG13	1.76	0.67
2:cD:60:ILE:HG12	1:dN:105:THR:CG2	2.23	0.67
2:de:60:ILE:HG23	1:eE:105:THR:HG21	1.75	0.67
2:dF:83:THR:HG21	2:pg:65:ILE:HG13	1.76	0.67
2:ev:75:ILE:HG21	2:ev:177:ARG:HH12	1.60	0.67
2:eK:191:SER:OG	2:ij:186:GLU:O	2.08	0.67
1:fj:102:GLU:CD	2:gD:197:LYS:HE3	2.20	0.67
2:fl:197:LYS:HE3	1:ny:102:GLU:CD	2.20	0.67
2:fo:86:VAL:HG23	2:fo:202:GLN:HB2	1.76	0.67
2:fp:182:LEU:HD12	2:fp:182:LEU:O	1.94	0.67
2:fy:163:ALA:HB3	2:fy:265:VAL:CG1	2.25	0.67
1:fL:102:GLU:CD	2:lU:197:LYS:HE3	2.20	0.67
2:fP:197:LYS:CD	1:fY:99:LEU:HA	2.13	0.67
2:fS:197:LYS:HA	2:gb:62:GLN:OE1	1.93	0.67
1:gj:105:THR:CG2	2:gT:60:ILE:HG12	2.23	0.67
1:gv:90:LEU:HD22	2:hT:5:THR:HG22	1.76	0.67
2:gG:86:VAL:HG23	2:gG:202:GLN:HB2	1.76	0.67
2:gH:182:LEU:HD12	2:gH:182:LEU:O	1.93	0.67
2:hi:86:VAL:HG23	2:hi:202:GLN:HB2	1.76	0.67
1:hq:99:LEU:CA	2:kq:197:LYS:CD	2.68	0.67
2:hF:104:GLN:OE1	5:qx:176:ASN:CG	2.37	0.67
2:jl:198:GLU:CD	1:lq:101:VAL:CG1	2.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jz:141:HIS:NE2	2:jz:150:THR:OG1	2.26	0.67
2:jD:87:LYS:NZ	2:jD:201:GLU:OE1	2.27	0.67
2:jN:62:GLN:OE1	2:pN:197:LYS:HA	1.93	0.67
2:kc:68:MET:HE3	2:kf:84:VAL:HG21	1.76	0.67
2:kC:197:LYS:HE3	1:kO:102:GLU:CD	2.19	0.67
2:kQ:75:ILE:HG21	2:kQ:177:ARG:HH12	1.60	0.67
1:kY:99:LEU:HD22	1:oy:102:GLU:HB2	1.73	0.67
2:lf:68:MET:HE3	2:li:84:VAL:HG21	1.76	0.67
2:lh:86:VAL:O	2:lh:202:GLN:N	2.27	0.67
2:IG:187:ARG:NH2	2:IL:190:PRO:O	2.27	0.67
2:IK:182:LEU:HD12	2:IK:182:LEU:O	1.93	0.67
2:mA:87:LYS:NZ	2:mA:201:GLU:OE1	2.27	0.67
1:mC:102:GLU:OE2	1:OC:99:LEU:HG	1.74	0.67
1:mH:102:GLU:CD	1:OL:99:LEU:CD1	2.60	0.67
2:mY:187:ARG:NH2	2:nd:190:PRO:O	2.28	0.67
2:nl:163:ALA:HB3	2:nl:265:VAL:CG1	2.25	0.67
2:oh:182:LEU:HD12	2:oh:182:LEU:O	1.94	0.67
2:pu:197:LYS:HG2	1:pE:100:LYS:HB2	1.76	0.67
3:qh:67:ARG:CA	4:qj:194:LEU:CD1	2.72	0.67
5:qJ:229:ILE:HD13	5:qL:232:LEU:CD2	2.25	0.67
1:ad:100:LYS:HB2	2:oc:197:LYS:HG2	1.76	0.67
2:ak:86:VAL:HG23	2:ak:202:GLN:HB2	1.76	0.67
2:aw:197:LYS:CD	1:km:99:LEU:CA	2.68	0.67
2:ax:61:GLY:O	1:gm:103:ARG:HD3	1.94	0.67
2:bn:86:VAL:HG23	2:bn:202:GLN:HB2	1.76	0.67
2:bL:163:ALA:HB3	2:bL:265:VAL:CG1	2.25	0.67
2:bM:163:ALA:HB3	2:bM:265:VAL:CG1	2.23	0.67
1:cf:90:LEU:HD22	2:dr:5:THR:HG22	1.76	0.67
2:cn:184:TYR:HH	2:cn:204:PHE:HD1	1.42	0.67
2:cA:163:ALA:HB3	2:cA:265:VAL:CG1	2.25	0.67
1:db:99:LEU:HG	1:eP:102:GLU:OE1	1.95	0.67
2:dJ:171:TYR:OH	2:dJ:175:THR:OG1	2.12	0.67
1:es:103:ARG:HD3	2:of:61:GLY:O	1.93	0.67
2:eu:278:VAL:HG11	2:eu:295:VAL:O	1.93	0.67
1:eH:101:VAL:CG1	2:gp:198:GLU:CD	2.58	0.67
2:eJ:65:ILE:HG13	2:gp:83:THR:HG21	1.76	0.67
2:fl:75:ILE:HG21	2:fl:177:ARG:HH12	1.60	0.67
1:fF:90:LEU:HD22	2:nm:5:THR:HG22	1.76	0.67
2:fQ:61:GLY:O	1:kz:103:ARG:HD3	1.94	0.67
2:ga:163:ALA:HB3	2:ga:265:VAL:CG1	2.25	0.67
2:gq:60:ILE:HG23	1:hO:105:THR:HG21	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gM:103:ARG:CG	2:IV:61:GLY:O	2.42	0.67
2:iK:68:MET:HE3	2:iN:84:VAL:HG21	1.76	0.67
1:jK:99:LEU:CA	2:pK:197:LYS:CD	2.69	0.67
2:ke:86:VAL:O	2:ke:202:GLN:N	2.27	0.67
2:kF:86:VAL:O	2:kF:202:GLN:N	2.27	0.67
2:lU:187:ARG:NH2	2:lZ:190:PRO:O	2.28	0.67
2:mi:187:ARG:NH2	2:mn:190:PRO:O	2.28	0.67
2:mj:68:MET:HE3	2:mm:84:VAL:HG21	1.76	0.67
2:mJ:163:ALA:HB3	2:mJ:265:VAL:CG1	2.25	0.67
2:mK:75:ILE:HG21	2:mK:177:ARG:HH12	1.60	0.67
2:mK:187:ARG:NH2	2:mP:190:PRO:O	2.28	0.67
2:nO:187:ARG:NH2	2:nT:190:PRO:O	2.28	0.67
2:oq:187:ARG:NH2	2:ov:190:PRO:O	2.27	0.67
2:oD:163:ALA:HB3	2:oD:265:VAL:CG1	2.25	0.67
2:oV:86:VAL:O	2:oV:202:GLN:N	2.27	0.67
2:pg:187:ARG:NH2	2:pl:190:PRO:O	2.28	0.67
2:pW:75:ILE:HG21	2:pW:177:ARG:HH12	1.60	0.67
3:qf:64:GLY:O	4:qk:219:ILE:HG22	1.95	0.67
3:qf:66:GLN:HB2	4:ql:8:TYR:O	1.95	0.67
5:qp:317:PHE:HZ	5:qr:319:LEU:HD11	1.59	0.67
6:qq:39:ARG:NH1	6:qM:8:ASP:O	2.28	0.67
6:qs:8:ASP:O	6:qu:39:ARG:NH1	2.28	0.67
5:qt:394:ILE:HD11	5:qv:405:ILE:HG23	1.68	0.67
5:qx:194:ARG:NH2	5:qz:125:ASP:OD1	2.27	0.67
2:aI:65:ILE:HG13	2:kb:83:THR:HG21	1.76	0.67
2:aI:83:THR:HG21	2:iX:65:ILE:HG13	1.76	0.67
1:aU:101:VAL:CG1	2:iJ:198:GLU:CD	2.58	0.67
2:aX:191:SER:OG	2:cp:186:GLU:O	2.08	0.67
1:bs:99:LEU:CD1	1:eR:60:ARG:NH1	2.25	0.67
2:by:187:ARG:NH2	2:bD:190:PRO:O	2.28	0.67
1:bX:102:GLU:CD	2:dr:197:LYS:HE3	2.19	0.67
2:co:60:ILE:CG2	1:iq:105:THR:CG2	2.62	0.67
2:cD:197:LYS:CD	1:cM:99:LEU:HA	2.13	0.67
1:cK:105:THR:HG21	2:eY:60:ILE:HG23	1.75	0.67
2:dc:163:ALA:HB3	2:dc:265:VAL:CG1	2.25	0.67
1:dl:105:THR:CG2	2:hV:60:ILE:HG12	2.23	0.67
1:eb:102:GLU:HB2	1:nW:99:LEU:HD22	1.74	0.67
1:en:90:LEU:HD22	2:nA:5:THR:HG22	1.76	0.67
1:eB:102:GLU:OE1	1:gB:99:LEU:HG	1.95	0.67
2:fb:87:LYS:NZ	2:fb:201:GLU:OE1	2.27	0.67
1:fh:100:LYS:HB2	2:gD:197:LYS:HG2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fl:65:ILE:HG13	2:gD:83:THR:HG21	1.76	0.67
1:fu:105:THR:CG2	2:mj:60:ILE:CG2	2.62	0.67
2:he:163:ALA:HB3	2:he:265:VAL:CG1	2.25	0.67
2:hf:141:HIS:NE2	2:hf:150:THR:OG1	2.26	0.67
2:hg:61:GLY:O	1:lB:103:ARG:CG	2.42	0.67
2:hg:68:MET:HE3	2:hj:84:VAL:HG21	1.76	0.67
1:hl:90:LEU:HD22	2:lG:5:THR:HG22	1.76	0.67
2:iM:86:VAL:HG23	2:iM:202:GLN:HB2	1.76	0.67
2:iX:83:THR:HG21	2:jl:65:ILE:HG13	1.76	0.67
1:jx:99:LEU:HG	1:lk:102:GLU:OE1	1.95	0.67
2:jz:65:ILE:HG13	2:le:83:THR:HG21	1.76	0.67
2:jA:68:MET:HE3	2:jD:84:VAL:HG21	1.76	0.67
1:jV:105:THR:CG2	2:na:60:ILE:HG12	2.23	0.67
2:kT:86:VAL:HG23	2:kT:202:GLN:HB2	1.76	0.67
2:le:75:ILE:HG21	2:le:177:ARG:HH12	1.60	0.67
1:lm:105:THR:CG2	2:pY:60:ILE:HG12	2.23	0.67
1:lM:90:LEU:HD22	2:mY:5:THR:HG22	1.76	0.67
1:md:103:ARG:CG	2:mx:61:GLY:O	2.42	0.67
1:mI:102:GLU:CD	2:oq:197:LYS:HE3	2.20	0.67
2:mY:52:GLN:N	2:mY:52:GLN:OE1	2.23	0.67
2:mY:75:ILE:HG21	2:mY:177:ARG:HH12	1.60	0.67
2:nc:182:LEU:O	2:nc:182:LEU:HD12	1.94	0.67
1:nj:99:LEU:CA	2:oG:197:LYS:CD	2.69	0.67
2:nm:65:ILE:HG13	2:oE:83:THR:HG21	1.76	0.67
2:oc:187:ARG:NH2	2:oh:190:PRO:O	2.28	0.67
2:pg:21:GLN:NE2	2:pg:105:GLU:OE2	2.26	0.67
2:pt:67:ASP:OD1	1:pA:95:SER:OG	2.13	0.67
2:pv:68:MET:HE3	2:py:84:VAL:HG21	1.76	0.67
1:pA:102:GLU:OE1	1:pG:99:LEU:HG	1.95	0.67
3:qf:133:ALA:HB3	3:qf:138:TYR:HD2	1.59	0.67
5:qp:232:LEU:CD2	5:qL:229:ILE:HD13	2.25	0.67
5:qv:252:LEU:HD22	6:qy:126:GLN:HG2	1.72	0.67
5:qB:252:LEU:HD22	6:qE:126:GLN:HG2	1.72	0.67
6:qE:8:ASP:O	6:qG:39:ARG:NH1	2.28	0.67
2:av:60:ILE:HG23	1:bH:105:THR:HG21	1.75	0.67
2:aI:187:ARG:NH2	2:aN:190:PRO:O	2.28	0.67
1:aR:105:THR:HG21	2:bl:60:ILE:HG23	1.75	0.67
1:be:105:THR:CG2	2:kq:60:ILE:HG12	2.23	0.67
2:bk:52:GLN:N	2:bk:52:GLN:OE1	2.24	0.67
1:bK:70:GLY:CA	6:qw:116:GLY:CA	2.73	0.67
1:bK:99:LEU:HG	1:hL:102:GLU:OE1	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bZ:65:ILE:HG13	2:dr:83:THR:HG21	1.75	0.67
2:cd:87:LYS:NZ	2:cd:201:GLU:OE1	2.27	0.67
2:cn:5:THR:HG22	1:pA:90:LEU:HD22	1.76	0.67
1:cz:102:GLU:CD	2:pg:197:LYS:HE3	2.19	0.67
2:cE:61:GLY:O	1:nL:103:ARG:HD3	1.94	0.67
2:cP:5:THR:HG22	1:fd:90:LEU:HD22	1.76	0.67
2:dd:62:GLN:OE1	2:eO:197:LYS:HA	1.93	0.67
2:dq:163:ALA:HB3	2:dq:265:VAL:CG1	2.25	0.67
2:du:86:VAL:HG23	2:du:202:GLN:HB2	1.76	0.67
1:dD:102:GLU:CD	2:eX:197:LYS:HE3	2.19	0.67
2:dF:197:LYS:HE3	1:pe:102:GLU:CD	2.20	0.67
1:ef:102:GLU:CD	2:nA:197:LYS:HE3	2.20	0.67
2:ej:197:LYS:CD	1:es:99:LEU:HA	2.13	0.67
2:ey:86:VAL:HG23	2:ey:202:GLN:HB2	1.76	0.67
2:fl:187:ARG:NH2	2:fq:190:PRO:O	2.28	0.67
2:gb:187:ARG:NH2	2:gg:190:PRO:O	2.27	0.67
2:ge:86:VAL:O	2:ge:202:GLN:N	2.27	0.67
2:gp:75:ILE:HG21	2:gp:177:ARG:HH12	1.60	0.67
2:gq:68:MET:HE3	2:gt:84:VAL:HG21	1.76	0.67
1:gP:99:LEU:HG	1:in:102:GLU:OE1	1.95	0.67
1:hA:105:THR:CG2	2:lW:60:ILE:HG12	2.23	0.67
2:hF:32:LEU:HD12	5:qv:178:PRO:HD2	1.64	0.67
2:im:182:LEU:HD12	2:im:182:LEU:O	1.94	0.67
2:jB:81:GLU:O	2:jE:57:ARG:N	2.25	0.67
2:jO:68:MET:HE3	2:jR:84:VAL:HG21	1.76	0.67
1:jZ:102:GLU:CD	2:ls:197:LYS:HE3	2.19	0.67
2:kE:197:LYS:CD	1:kN:99:LEU:CA	2.69	0.67
2:lv:86:VAL:HG23	2:lv:202:GLN:HB2	1.76	0.67
2:ml:86:VAL:HG23	2:ml:202:GLN:HB2	1.76	0.67
2:mL:60:ILE:HG23	1:ol:105:THR:HG21	1.75	0.67
1:nJ:60:ARG:CD	1:nZ:99:LEU:HD21	2.18	0.67
1:om:100:LYS:HB2	2:pW:197:LYS:HG2	1.76	0.67
1:on:99:LEU:HD21	1:pR:60:ARG:CD	2.18	0.67
2:pX:68:MET:HE3	2:qa:84:VAL:HG21	1.76	0.67
3:qe:133:ALA:HB3	3:qe:138:TYR:HD2	1.59	0.67
3:qf:19:ARG:NH1	3:qg:135:GLY:O	2.28	0.67
5:qr:96:ARG:CD	5:qt:114:LEU:HD23	2.11	0.67
6:qw:83:LEU:HD11	6:qw:89:VAL:CG1	2.25	0.67
5:qB:194:ARG:NH2	5:qD:125:ASP:OD1	2.27	0.67
5:qF:229:ILE:HD13	5:qH:232:LEU:CD2	2.25	0.67
1:ap:60:ARG:NH1	1:dl:99:LEU:CD1	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aM:87:LYS:NZ	2:aM:201:GLU:OE1	2.27	0.66
2:aW:187:ARG:NH2	2:bb:190:PRO:O	2.28	0.66
2:aX:68:MET:HE3	2:ba:84:VAL:HG21	1.76	0.66
1:bf:103:ARG:CG	2:ds:61:GLY:O	2.42	0.66
1:bt:60:ARG:CD	1:hQ:99:LEU:HD21	2.18	0.66
2:by:75:ILE:HG21	2:by:177:ARG:HH12	1.60	0.66
2:bY:67:ASP:OD1	1:cf:95:SER:OG	2.13	0.66
1:ck:99:LEU:HD21	1:iq:60:ARG:CD	2.18	0.66
2:cB:75:ILE:HG21	2:cB:177:ARG:HH12	1.60	0.66
2:cR:60:ILE:HG12	1:po:105:THR:CG2	2.23	0.66
2:dF:5:THR:HG22	1:pm:90:LEU:HD22	1.76	0.66
2:dF:187:ARG:NH2	2:dK:190:PRO:O	2.28	0.66
1:dL:90:LEU:HD22	2:eX:5:THR:HG22	1.76	0.66
1:dO:103:ARG:CG	2:nP:61:GLY:O	2.42	0.66
2:eO:144:TYR:OH	2:eO:253:GLY:N	2.29	0.66
2:eW:163:ALA:HB3	2:eW:265:VAL:CG1	2.25	0.66
1:fW:105:THR:CG2	2:ii:60:ILE:CG2	2.62	0.66
2:gc:191:SER:OG	2:mk:186:GLU:O	2.08	0.66
1:gm:99:LEU:CA	2:hV:197:LYS:CD	2.69	0.66
2:hv:61:GLY:O	1:iU:103:ARG:HD3	1.94	0.66
2:hS:67:ASP:OD1	1:hZ:95:SER:OG	2.13	0.66
1:jx:102:GLU:CD	2:le:197:LYS:HE3	2.20	0.66
2:jN:65:ILE:HG13	2:pI:83:THR:HG21	1.76	0.66
2:jN:187:ARG:NH2	2:jS:190:PRO:O	2.28	0.66
2:jP:60:ILE:HG12	1:oM:105:THR:CG2	2.23	0.66
2:ks:87:LYS:NZ	2:ks:201:GLU:OE1	2.27	0.66
2:kB:163:ALA:HB3	2:kB:265:VAL:CG1	2.25	0.66
2:kQ:187:ARG:NH2	2:kV:190:PRO:O	2.28	0.66
2:kS:197:LYS:CD	1:mV:99:LEU:CA	2.69	0.66
1:kW:102:GLU:OE1	1:mW:99:LEU:HG	1.95	0.66
2:mi:75:ILE:HG21	2:mi:177:ARG:HH12	1.60	0.66
2:mv:163:ALA:HB3	2:mv:265:VAL:CG1	2.25	0.66
1:mG:100:LYS:HB2	2:oq:197:LYS:HG2	1.76	0.66
2:np:86:VAL:HG23	2:np:202:GLN:HB2	1.76	0.66
1:oo:102:GLU:CD	2:pW:197:LYS:HE3	2.19	0.66
2:oJ:182:LEU:HD12	2:oJ:182:LEU:O	1.94	0.66
2:oV:86:VAL:HG23	2:oV:202:GLN:HB2	1.76	0.66
2:pt:163:ALA:HB3	2:pt:265:VAL:CG1	2.25	0.66
2:pu:75:ILE:HG21	2:pu:177:ARG:HH12	1.60	0.66
5:qp:229:ILE:HD13	5:qr:232:LEU:CD2	2.25	0.66
1:aO:90:LEU:HD22	2:kb:5:THR:HG22	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bb:144:TYR:OH	2:bb:253:GLY:N	2.29	0.66
2:bj:278:VAL:HG11	2:bj:295:VAL:O	1.94	0.66
1:bu:100:LYS:HB2	2:dd:197:LYS:HG2	1.76	0.66
1:bv:99:LEU:HA	2:df:197:LYS:CD	2.13	0.66
2:bx:98:VAL:HG11	2:bC:50:LEU:HD23	1.78	0.66
2:bL:278:VAL:HG11	2:bL:295:VAL:O	1.93	0.66
2:bZ:75:ILE:HG21	2:bZ:177:ARG:HH12	1.60	0.66
2:cc:86:VAL:HG23	2:cc:202:GLN:HB2	1.76	0.66
2:cm:98:VAL:HG11	2:cr:50:LEU:HD23	1.78	0.66
2:co:68:MET:HE3	2:cr:84:VAL:HG21	1.76	0.66
2:cq:86:VAL:O	2:cq:202:GLN:N	2.27	0.66
2:cC:61:GLY:O	1:pb:103:ARG:CG	2.42	0.66
1:cX:105:THR:CG2	2:dH:60:ILE:HG12	2.23	0.66
2:dS:98:VAL:HG11	2:dX:50:LEU:HD23	1.78	0.66
2:ek:86:VAL:HG23	2:ek:202:GLN:HB2	1.76	0.66
2:ev:197:LYS:HE3	1:gB:102:GLU:CD	2.19	0.66
2:ew:68:MET:HE3	2:ez:84:VAL:HG21	1.76	0.66
2:ex:197:LYS:CD	1:gA:99:LEU:CA	2.68	0.66
2:eZ:81:GLU:O	2:fc:57:ARG:N	2.24	0.66
2:fc:144:TYR:OH	2:fc:253:GLY:N	2.29	0.66
1:fj:100:LYS:HZ1	1:gJ:100:LYS:CG	2.07	0.66
2:fN:65:ILE:HG13	2:IU:83:THR:HG21	1.76	0.66
2:ga:98:VAL:HG11	2:gf:50:LEU:HD23	1.78	0.66
1:gk:99:LEU:C	2:gS:197:LYS:HZ2	2.03	0.66
2:gR:187:ARG:NH2	2:gW:190:PRO:O	2.28	0.66
2:gV:171:TYR:OH	2:gV:175:THR:OG1	2.12	0.66
2:hk:144:TYR:OH	2:hk:253:GLY:N	2.29	0.66
2:hs:98:VAL:HG11	2:hw:50:LEU:HD23	1.78	0.66
2:hs:111:GLY:CA	5:qB:176:ASN:CB	2.71	0.66
2:hs:163:ALA:HB3	2:hs:265:VAL:CG1	2.25	0.66
2:hs:170:TRP:CH2	5:qz:176:ASN:O	2.48	0.66
2:hF:163:ALA:HB3	2:hF:265:VAL:CG1	2.25	0.66
2:iI:278:VAL:HG11	2:iI:295:VAL:O	1.94	0.66
2:iW:163:ALA:HB3	2:iW:265:VAL:CG1	2.25	0.66
2:jl:197:LYS:HE3	1:lq:102:GLU:CD	2.20	0.66
2:jm:130:CYS:SG	2:jm:131:TYR:N	2.69	0.66
2:jA:61:GLY:O	1:kZ:103:ARG:CG	2.42	0.66
1:jL:102:GLU:CD	2:pI:197:LYS:HE3	2.20	0.66
2:jO:130:CYS:SG	2:jO:131:TYR:N	2.69	0.66
2:lj:144:TYR:OH	2:lj:253:GLY:N	2.29	0.66
2:lr:67:ASP:OD1	1:ly:95:SER:OG	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IF:163:ALA:HB3	2:IF:265:VAL:CG1	2.25	0.66
2:IJ:86:VAL:HG23	2:IJ:202:GLN:HB2	1.76	0.66
2:IU:75:ILE:HG21	2:IU:177:ARG:HH12	1.60	0.66
1:mc:99:LEU:CD1	1:nu:60:ARG:NH1	2.25	0.66
2:mi:5:THR:HG22	1:mC:90:LEU:HD22	1.76	0.66
2:mv:98:VAL:HG11	2:mA:50:LEU:HD23	1.78	0.66
2:nD:86:VAL:HG23	2:nD:202:GLN:HB2	1.76	0.66
2:ob:98:VAL:HG11	2:og:50:LEU:HD23	1.78	0.66
2:ob:163:ALA:HB3	2:ob:265:VAL:CG1	2.25	0.66
1:oo:99:LEU:HG	1:qc:102:GLU:OE1	1.95	0.66
2:oT:68:MET:HE3	2:oW:84:VAL:HG21	1.76	0.66
2:pf:278:VAL:HG11	2:pf:295:VAL:O	1.93	0.66
2:ph:130:CYS:SG	2:ph:131:TYR:N	2.69	0.66
6:qq:83:LEU:HD11	6:qq:89:VAL:CG1	2.26	0.66
5:qz:194:ARG:NH2	5:qB:125:ASP:OD1	2.27	0.66
6:qA:83:LEU:HD11	6:qA:89:VAL:CG1	2.26	0.66
6:qE:83:LEU:HD11	6:qE:89:VAL:CG1	2.26	0.66
1:af:99:LEU:HG	1:oi:102:GLU:OE1	1.95	0.66
2:ah:75:ILE:HG21	2:ah:177:ARG:HH12	1.60	0.66
1:an:90:LEU:HD22	2:oc:5:THR:HG22	1.76	0.66
2:aJ:130:CYS:SG	2:aJ:131:TYR:N	2.69	0.66
1:bs:105:THR:CG2	2:cb:60:ILE:HG12	2.23	0.66
2:bz:61:GLY:O	1:cY:103:ARG:CG	2.42	0.66
2:bA:197:LYS:CD	1:hQ:99:LEU:CA	2.68	0.66
2:bM:68:MET:HE3	2:bP:84:VAL:HG21	1.76	0.66
2:bO:86:VAL:HG23	2:bO:202:GLN:HB2	1.76	0.66
2:bP:171:TYR:HH	2:bP:175:THR:HG1	1.38	0.66
2:ca:130:CYS:SG	2:ca:131:TYR:N	2.69	0.66
1:cM:103:ARG:HD3	2:pL:61:GLY:O	1.94	0.66
1:db:102:GLU:CD	2:eJ:197:LYS:HE3	2.19	0.66
2:dT:197:LYS:HE3	1:nM:102:GLU:CD	2.20	0.66
1:dZ:90:LEU:HD22	2:oS:5:THR:HG22	1.76	0.66
2:ei:61:GLY:O	1:nv:103:ARG:CG	2.42	0.66
2:ez:87:LYS:NZ	2:ez:201:GLU:OE1	2.27	0.66
2:eI:278:VAL:HG11	2:eI:295:VAL:O	1.93	0.66
1:fr:90:LEU:HD22	2:gD:5:THR:HG22	1.76	0.66
2:fD:87:LYS:NZ	2:fD:201:GLU:OE1	2.27	0.66
2:fE:144:TYR:OH	2:fE:253:GLY:N	2.29	0.66
2:fN:75:ILE:HG21	2:fN:177:ARG:HH12	1.60	0.66
2:gb:198:GLU:CD	1:if:101:VAL:CG1	2.58	0.66
2:gc:130:CYS:SG	2:gc:131:TYR:N	2.69	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gd:60:ILE:HG12	1:mc:105:THR:CG2	2.23	0.66
2:gq:130:CYS:SG	2:gq:131:TYR:N	2.69	0.66
2:gu:144:TYR:OH	2:gu:253:GLY:N	2.29	0.66
1:gP:102:GLU:CD	2:ih:197:LYS:HE3	2.20	0.66
2:gU:86:VAL:O	2:gU:202:GLN:N	2.27	0.66
2:ht:61:GLY:O	1:kk:103:ARG:CG	2.42	0.66
2:hF:98:VAL:HG11	2:hJ:50:LEU:HD23	1.78	0.66
2:hS:98:VAL:HG11	2:hX:50:LEU:HD23	1.78	0.66
2:hS:278:VAL:HG11	2:hS:295:VAL:O	1.93	0.66
2:ih:187:ARG:NH2	2:im:190:PRO:O	2.28	0.66
1:io:99:LEU:CD1	1:on:102:GLU:CD	2.60	0.66
2:iw:60:ILE:HG23	1:jI:105:THR:HG21	1.75	0.66
2:iI:98:VAL:HG11	2:iN:50:LEU:HD23	1.77	0.66
2:iX:197:LYS:HE3	1:jj:102:GLU:CD	2.19	0.66
2:jz:197:LYS:HE3	1:pU:102:GLU:CD	2.19	0.66
2:jz:197:LYS:HG2	1:pS:100:LYS:HB2	1.76	0.66
2:jA:130:CYS:SG	2:jA:131:TYR:N	2.69	0.66
2:jB:197:LYS:CD	1:pT:99:LEU:CA	2.69	0.66
2:ko:98:VAL:HG11	2:ks:50:LEU:HD23	1.78	0.66
2:kt:144:TYR:OH	2:kt:253:GLY:N	2.29	0.66
2:kQ:197:LYS:HG2	1:mU:100:LYS:HB2	1.76	0.66
2:kU:87:LYS:NZ	2:kU:201:GLU:OE1	2.27	0.66
2:lr:163:ALA:HB3	2:lr:265:VAL:CG1	2.25	0.66
1:lC:100:LYS:HB2	2:mY:197:LYS:HG2	1.76	0.66
1:mr:103:ARG:CG	2:oF:61:GLY:O	2.42	0.66
2:mB:144:TYR:OH	2:mB:253:GLY:N	2.29	0.66
2:mZ:130:CYS:SG	2:mZ:131:TYR:N	2.69	0.66
2:nA:187:ARG:NH2	2:nF:190:PRO:O	2.28	0.66
2:nN:163:ALA:HB3	2:nN:265:VAL:CG1	2.25	0.66
2:op:98:VAL:HG11	2:ou:50:LEU:HD23	1.78	0.66
2:oq:75:ILE:HG21	2:oq:177:ARG:HH12	1.60	0.66
2:oD:98:VAL:HG11	2:oI:50:LEU:HD23	1.77	0.66
2:oE:75:ILE:HG21	2:oE:177:ARG:HH12	1.60	0.66
2:oX:144:TYR:OH	2:oX:253:GLY:N	2.29	0.66
2:pu:197:LYS:HE3	1:pG:102:GLU:CD	2.19	0.66
2:pV:98:VAL:HG11	2:qa:50:LEU:HD23	1.78	0.66
3:qi:133:ALA:HB3	3:qi:138:TYR:HD2	1.59	0.66
6:qs:83:LEU:HD11	6:qs:89:VAL:CG1	2.26	0.66
6:qu:8:ASP:O	6:qw:39:ARG:NH1	2.28	0.66
5:qH:229:ILE:HD13	5:qJ:232:LEU:CD2	2.25	0.66
2:av:130:CYS:SG	2:av:131:TYR:N	2.69	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ax:298:LEU:HD12	2:ax:298:LEU:O	1.96	0.66
2:aH:163:ALA:HB3	2:aH:265:VAL:CG1	2.25	0.66
2:aI:5:THR:HG22	1:jd:90:LEU:HD22	1.76	0.66
2:aI:197:LYS:HE3	1:iV:102:GLU:CD	2.20	0.66
1:aS:100:LYS:HB2	2:iJ:197:LYS:HG2	1.76	0.66
2:bl:130:CYS:SG	2:bl:131:TYR:N	2.69	0.66
2:bx:163:ALA:HB3	2:bx:265:VAL:CG1	2.25	0.66
2:bQ:107:GLY:HA3	5:qp:176:ASN:HD22	0.52	0.66
2:bZ:197:LYS:HE3	1:iH:102:GLU:CD	2.19	0.66
2:cm:163:ALA:HB3	2:cm:265:VAL:CG1	2.25	0.66
2:cB:197:LYS:HE3	1:cN:102:GLU:CD	2.19	0.66
2:dc:98:VAL:HG11	2:dh:50:LEU:HD23	1.78	0.66
2:de:61:GLY:O	1:eE:103:ARG:CG	2.42	0.66
2:ds:130:CYS:SG	2:ds:131:TYR:N	2.69	0.66
2:du:61:GLY:O	1:km:103:ARG:HD3	1.94	0.66
2:dK:144:TYR:OH	2:dK:253:GLY:N	2.29	0.66
2:eJ:187:ARG:NH2	2:eO:190:PRO:O	2.28	0.66
2:eW:98:VAL:HG11	2:fb:50:LEU:HD23	1.77	0.66
2:eX:187:ARG:NH2	2:fc:190:PRO:O	2.28	0.66
2:fy:67:ASP:OD1	1:fF:95:SER:OG	2.13	0.66
2:fC:298:LEU:HD12	2:fC:298:LEU:O	1.96	0.66
1:fW:103:ARG:CG	2:ii:61:GLY:O	2.42	0.66
2:ga:67:ASP:OD1	1:gh:95:SER:OG	2.13	0.66
2:ge:86:VAL:HG23	2:ge:202:GLN:HB2	1.76	0.66
2:gC:67:ASP:OD1	1:gJ:95:SER:OG	2.13	0.66
2:gI:144:TYR:OH	2:gI:253:GLY:N	2.29	0.66
2:gR:197:LYS:HG2	1:lQ:100:LYS:HB2	1.76	0.66
2:gS:68:MET:HE3	2:gV:84:VAL:HG21	1.76	0.66
2:he:67:ASP:OD1	1:hl:95:SER:OG	2.13	0.66
2:hF:197:LYS:HG2	1:ky:100:LYS:HB2	1.76	0.66
2:hX:103:MET:SD	5:qz:31:GLU:HG2	2.35	0.66
1:hA:99:LEU:HD22	1:kw:102:GLU:HB2	1.74	0.66
2:hU:130:CYS:SG	2:hU:131:TYR:N	2.69	0.66
2:hY:144:TYR:OH	2:hY:253:GLY:N	2.29	0.66
2:ig:98:VAL:HG11	2:il:50:LEU:HD23	1.77	0.66
2:iw:61:GLY:O	1:jI:103:ARG:CG	2.42	0.66
2:iO:144:TYR:OH	2:iO:253:GLY:N	2.29	0.66
2:iZ:197:LYS:CD	1:ji:99:LEU:HA	2.13	0.66
2:ke:298:LEU:HD12	2:ke:298:LEU:O	1.96	0.66
2:kC:197:LYS:HG2	1:kM:100:LYS:HB2	1.76	0.66
2:kP:219:VAL:O	2:kP:246:MET:HE3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lk:90:LEU:HD22	2:mK:5:THR:HG22	1.76	0.66
2:lr:278:VAL:HG11	2:lr:295:VAL:O	1.94	0.66
2:lx:144:TYR:OH	2:lx:253:GLY:N	2.29	0.66
1:le:99:LEU:HG	1:ne:102:GLU:OE1	1.95	0.66
2:lH:61:GLY:O	1:mT:103:ARG:CG	2.42	0.66
2:mn:144:TYR:OH	2:mn:253:GLY:N	2.29	0.66
2:mN:298:LEU:HD12	2:mN:298:LEU:O	1.96	0.66
1:ni:100:LYS:HB2	2:oe:197:LYS:HG2	1.76	0.66
2:nF:144:TYR:OH	2:nF:253:GLY:N	2.29	0.66
2:nO:75:ILE:HG21	2:nO:177:ARG:HH12	1.60	0.66
2:nO:197:LYS:HE3	1:oa:102:GLU:CD	2.19	0.66
2:op:278:VAL:HG11	2:op:295:VAL:O	1.93	0.66
2:ov:144:TYR:OH	2:ov:253:GLY:N	2.29	0.66
2:oS:75:ILE:HG21	2:oS:177:ARG:HH12	1.60	0.66
2:pu:83:THR:HG21	2:pI:65:ILE:HG13	1.76	0.66
2:pM:182:LEU:HD12	2:pM:182:LEU:O	1.94	0.66
3:qd:68:ALA:CB	4:qn:8:TYR:OH	2.44	0.66
4:qj:19:VAL:O	4:qj:22:VAL:HG12	1.95	0.66
5:qp:125:ASP:OD1	5:qL:194:ARG:NH2	2.27	0.66
5:qv:229:ILE:HD13	5:qx:232:LEU:CD2	2.25	0.66
1:ae:99:LEU:CA	2:oe:197:LYS:CD	2.69	0.66
2:au:163:ALA:HB3	2:au:265:VAL:CG1	2.25	0.66
1:aF:102:GLU:CD	1:mR:99:LEU:CD1	2.60	0.66
1:aG:102:GLU:CD	2:kb:197:LYS:HE3	2.20	0.66
2:aJ:68:MET:HE3	2:aM:84:VAL:HG21	1.76	0.66
2:aL:61:GLY:O	1:mV:103:ARG:HD3	1.94	0.66
2:aX:130:CYS:SG	2:aX:131:TYR:N	2.69	0.66
2:bp:144:TYR:OH	2:bp:253:GLY:N	2.29	0.66
2:by:197:LYS:HG2	1:hP:100:LYS:HB2	1.76	0.66
2:bB:61:GLY:O	1:dC:103:ARG:HD3	1.93	0.66
1:bE:102:GLU:OE1	1:hR:99:LEU:HG	1.95	0.66
2:bL:98:VAL:HG11	2:bP:50:LEU:HD23	1.78	0.66
2:cC:68:MET:HE3	2:cF:84:VAL:HG21	1.76	0.66
2:dr:75:ILE:HG21	2:dr:177:ARG:HH12	1.60	0.66
2:dr:141:HIS:NE2	2:dr:150:THR:OG1	2.26	0.66
2:dE:219:VAL:O	2:dE:246:MET:HE3	1.96	0.66
1:dL:102:GLU:OE1	1:pe:99:LEU:HG	1.95	0.66
2:dT:197:LYS:HG2	1:nK:100:LYS:HB2	1.76	0.66
2:dU:61:GLY:O	1:oN:103:ARG:CG	2.42	0.66
2:dU:130:CYS:SG	2:dU:131:TYR:N	2.69	0.66
2:em:144:TYR:OH	2:em:253:GLY:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eI:163:ALA:HB3	2:eI:265:VAL:CG1	2.25	0.66
2:eK:68:MET:HE3	2:eN:84:VAL:HG21	1.76	0.66
2:eW:219:VAL:O	2:eW:246:MET:HE3	1.96	0.66
2:fz:75:ILE:HG21	2:fz:177:ARG:HH12	1.60	0.66
2:fB:60:ILE:HG12	1:nW:105:THR:CG2	2.23	0.66
1:fF:102:GLU:OE1	1:mg:99:LEU:HG	1.95	0.66
2:fN:5:THR:HG22	1:gh:90:LEU:HD22	1.76	0.66
1:fV:99:LEU:HA	1:mc:102:GLU:CD	2.21	0.66
2:gb:184:TYR:OH	2:gb:204:PHE:CD1	2.49	0.66
2:gs:298:LEU:O	2:gs:298:LEU:HD12	1.96	0.66
2:gD:75:ILE:HG21	2:gD:177:ARG:HH12	1.60	0.66
1:gN:100:LYS:HB2	2:ih:197:LYS:HG2	1.76	0.66
2:iu:219:VAL:O	2:iu:246:MET:HE3	1.96	0.66
2:iw:68:MET:HE3	2:iz:84:VAL:HG21	1.76	0.66
2:iz:87:LYS:NZ	2:iz:201:GLU:OE1	2.27	0.66
2:iJ:187:ARG:NH2	2:iO:190:PRO:O	2.28	0.66
2:iN:87:LYS:NZ	2:iN:201:GLU:OE1	2.27	0.66
2:iX:141:HIS:NE2	2:iX:150:THR:OG1	2.26	0.66
1:jt:105:THR:CG2	2:kd:60:ILE:HG12	2.23	0.66
2:jE:144:TYR:OH	2:jE:253:GLY:N	2.29	0.66
1:jF:100:LYS:CG	1:pU:100:LYS:HZ1	2.07	0.66
1:jT:90:LEU:HD22	2:pI:5:THR:HG22	1.76	0.66
2:ko:219:VAL:O	2:ko:246:MET:HE3	1.96	0.66
2:kB:98:VAL:HG11	2:kG:50:LEU:HD23	1.78	0.66
2:kQ:197:LYS:HE3	1:mW:102:GLU:CD	2.20	0.66
2:lr:98:VAL:HG11	2:lw:50:LEU:HD23	1.78	0.66
2:lF:219:VAL:O	2:lF:246:MET:HE3	1.96	0.66
1:mo:102:GLU:OE1	1:mu:99:LEU:HG	1.95	0.66
1:mr:105:THR:HG21	2:oF:60:ILE:HG23	1.75	0.66
2:mw:75:ILE:HG21	2:mw:177:ARG:HH12	1.60	0.66
2:mw:197:LYS:HG2	1:oA:100:LYS:HB2	1.76	0.66
2:mJ:219:VAL:O	2:mJ:246:MET:HE3	1.96	0.66
2:nd:144:TYR:OH	2:nd:253:GLY:N	2.29	0.66
1:nk:102:GLU:CD	2:oE:197:LYS:HE3	2.20	0.66
2:nA:141:HIS:NE2	2:nA:150:THR:OG1	2.26	0.66
1:nI:99:LEU:CD1	1:pa:60:ARG:NH1	2.26	0.66
2:nN:219:VAL:O	2:nN:246:MET:HE3	1.96	0.66
2:oc:75:ILE:HG21	2:oc:177:ARG:HH12	1.60	0.66
2:od:130:CYS:SG	2:od:131:TYR:N	2.69	0.66
2:oH:298:LEU:HD12	2:oH:298:LEU:O	1.96	0.66
2:pf:67:ASP:OD1	1:pm:95:SER:OG	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pv:130:CYS:SG	2:pv:131:TYR:N	2.69	0.66
2:pz:144:TYR:OH	2:pz:253:GLY:N	2.29	0.66
3:qd:133:ALA:HB3	3:qd:138:TYR:HD2	1.59	0.66
3:qg:68:ALA:CB	4:qk:8:TYR:CZ	2.79	0.66
3:qh:65:GLY:HA3	4:qj:9:GLY:C	2.06	0.66
6:qq:8:ASP:O	6:qs:39:ARG:NH1	2.28	0.66
5:qx:229:ILE:HD13	5:qz:232:LEU:CD2	2.25	0.66
6:qy:8:ASP:O	6:qA:39:ARG:NH1	2.28	0.66
5:qz:229:ILE:HD13	5:qB:232:LEU:CD2	2.25	0.66
6:qC:83:LEU:HD11	6:qC:89:VAL:CG1	2.25	0.66
5:qD:229:ILE:HD13	5:qF:232:LEU:CD2	2.25	0.66
6:qG:83:LEU:HD11	6:qG:89:VAL:CG1	2.26	0.66
5:qJ:194:ARG:NH2	5:qL:125:ASP:OD1	2.27	0.66
2:ag:98:VAL:HG11	2:al:50:LEU:HD23	1.78	0.66
2:am:144:TYR:OH	2:am:253:GLY:N	2.29	0.66
2:bn:298:LEU:HD12	2:bn:298:LEU:O	1.96	0.66
2:bx:219:VAL:O	2:bx:246:MET:HE3	1.96	0.66
2:ca:61:GLY:O	1:dm:103:ARG:CG	2.42	0.66
2:ca:68:MET:HE3	2:cd:84:VAL:HG21	1.76	0.66
2:cn:197:LYS:HG2	1:pq:100:LYS:HB2	1.76	0.66
1:cv:105:THR:CG2	2:pK:60:ILE:HG12	2.23	0.66
1:cJ:99:LEU:CD1	1:po:60:ARG:NH1	2.25	0.66
2:cO:219:VAL:O	2:cO:246:MET:HE3	1.96	0.66
2:cS:298:LEU:HD12	2:cS:298:LEU:O	1.96	0.66
2:cU:144:TYR:OH	2:cU:253:GLY:N	2.29	0.66
1:dC:99:LEU:HD21	1:eS:60:ARG:CD	2.18	0.66
2:dG:68:MET:HE3	2:dJ:84:VAL:HG21	1.76	0.66
2:dW:298:LEU:HD12	2:dW:298:LEU:O	1.96	0.66
2:dY:144:TYR:OH	2:dY:253:GLY:N	2.29	0.66
2:eh:184:TYR:OH	2:eh:204:PHE:CD1	2.49	0.66
1:ep:99:LEU:HA	1:nI:102:GLU:CD	2.21	0.66
2:eu:98:VAL:HG11	2:ez:50:LEU:HD23	1.78	0.66
2:eK:60:ILE:CG2	1:gk:105:THR:CG2	2.62	0.66
2:eL:60:ILE:HG12	1:ib:105:THR:CG2	2.23	0.66
2:fm:68:MET:HE3	2:fp:84:VAL:HG21	1.76	0.66
2:fm:130:CYS:SG	2:fm:131:TYR:N	2.69	0.66
1:fH:102:GLU:CD	1:mq:99:LEU:HA	2.21	0.66
2:fM:163:ALA:HB3	2:fM:265:VAL:CG1	2.25	0.66
2:gQ:98:VAL:HG11	2:gV:50:LEU:HD23	1.78	0.66
2:gW:144:TYR:OH	2:gW:253:GLY:N	2.29	0.66
1:hd:102:GLU:CD	2:lG:197:LYS:HE3	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hj:87:LYS:NZ	2:hj:201:GLU:OE1	2.27	0.66
2:hk:239:PHE:CE1	2:hk:294:LEU:HD22	2.31	0.66
1:hl:102:GLU:OE2	1:kA:99:LEU:CD2	2.43	0.66
2:hv:298:LEU:HD12	2:hv:298:LEU:O	1.96	0.66
2:hK:144:TYR:OH	2:hK:253:GLY:N	2.29	0.66
2:hS:219:VAL:O	2:hS:246:MET:HE3	1.96	0.66
2:im:144:TYR:OH	2:im:253:GLY:N	2.29	0.66
2:im:239:PHE:CE1	2:im:294:LEU:HD22	2.31	0.66
1:iq:99:LEU:CA	2:lt:197:LYS:HZ1	2.06	0.66
2:iv:184:TYR:OH	2:iv:204:PHE:CD1	2.49	0.66
2:ja:86:VAL:HG23	2:ja:202:GLN:HB2	1.76	0.66
2:jy:98:VAL:HG11	2:jD:50:LEU:HD23	1.77	0.66
2:jC:298:LEU:HD12	2:jC:298:LEU:O	1.96	0.66
1:jF:102:GLU:OE1	1:pU:99:LEU:HG	1.95	0.66
2:ls:187:ARG:NH2	2:lx:190:PRO:O	2.28	0.66
2:lZ:144:TYR:OH	2:lZ:253:GLY:N	2.29	0.66
2:mh:163:ALA:HB3	2:mh:265:VAL:CG1	2.25	0.66
2:mw:5:THR:HG22	1:oK:90:LEU:HD22	1.76	0.66
2:mz:298:LEU:HD12	2:mz:298:LEU:O	1.96	0.66
1:mC:102:GLU:OE1	1:oC:99:LEU:HG	1.95	0.66
1:mI:99:LEU:CD2	1:ow:102:GLU:OE2	2.43	0.66
2:mL:130:CYS:SG	2:mL:131:TYR:N	2.69	0.66
2:nm:184:TYR:OH	2:nm:204:PHE:CD1	2.49	0.66
2:np:298:LEU:HD12	2:np:298:LEU:O	1.96	0.66
2:nr:144:TYR:OH	2:nr:253:GLY:N	2.29	0.66
2:nB:130:CYS:SG	2:nB:131:TYR:N	2.69	0.66
2:nN:98:VAL:HG11	2:nS:50:LEU:HD23	1.78	0.66
2:ot:298:LEU:HD12	2:ot:298:LEU:O	1.96	0.66
2:oF:130:CYS:SG	2:oF:131:TYR:N	2.69	0.66
2:px:86:VAL:HG23	2:px:202:GLN:HB2	1.76	0.66
4:qo:19:VAL:O	4:qo:22:VAL:HG12	1.95	0.66
5:qp:35:HIS:NE2	5:qL:53:GLU:OE1	2.29	0.66
6:qu:83:LEU:HD11	6:qu:89:VAL:CG1	2.26	0.66
5:qv:229:ILE:CD1	5:qx:232:LEU:CD2	2.74	0.66
6:qC:8:ASP:O	6:qE:39:ARG:NH1	2.28	0.66
1:an:102:GLU:OE2	1:oQ:99:LEU:CD2	2.43	0.66
1:as:99:LEU:CA	2:bN:197:LYS:CD	2.69	0.66
1:aF:63:VAL:HG13	1:aF:74:ASP:CB	2.26	0.66
1:aQ:99:LEU:HA	1:ch:102:GLU:CD	2.21	0.66
1:bs:102:GLU:CD	1:bT:99:LEU:HA	2.21	0.66
1:bw:99:LEU:CD2	1:dj:102:GLU:OE2	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bX:88:GLU:N	1:bX:88:GLU:OE1	2.29	0.66
1:ck:63:VAL:HG13	1:ck:74:ASP:CB	2.26	0.66
2:cn:187:ARG:NH2	2:cs:190:PRO:O	2.28	0.66
2:cA:219:VAL:O	2:cA:246:MET:HE3	1.96	0.66
1:cV:102:GLU:OE2	1:eV:99:LEU:CD2	2.43	0.66
2:de:130:CYS:SG	2:de:131:TYR:N	2.69	0.66
2:di:144:TYR:OH	2:di:253:GLY:N	2.29	0.66
2:du:298:LEU:HD12	2:du:298:LEU:O	1.96	0.66
2:dw:144:TYR:OH	2:dw:253:GLY:N	2.29	0.66
1:dC:63:VAL:HG13	1:dC:74:ASP:CB	2.26	0.66
1:dR:102:GLU:CD	2:oS:197:LYS:HE3	2.20	0.66
2:eg:98:VAL:HG11	2:el:50:LEU:HD23	1.78	0.66
1:eq:105:THR:CG2	2:gE:60:ILE:CG2	2.62	0.66
1:eG:63:VAL:HG13	1:eG:74:ASP:CB	2.26	0.66
2:eJ:184:TYR:OH	2:eJ:204:PHE:CD1	2.49	0.66
1:eP:90:LEU:HD22	2:gp:5:THR:HG22	1.76	0.66
2:fa:86:VAL:HG23	2:fa:202:GLN:HB2	1.76	0.66
2:fk:98:VAL:HG11	2:fp:50:LEU:HD23	1.77	0.66
2:fA:68:MET:HE3	2:fD:84:VAL:HG21	1.76	0.66
1:fY:63:VAL:HG13	1:fY:74:ASP:CB	2.26	0.66
2:gg:239:PHE:CE1	2:gg:294:LEU:HD22	2.31	0.66
2:gC:98:VAL:HG11	2:gH:50:LEU:HD23	1.78	0.66
2:gH:87:LYS:NZ	2:gH:201:GLU:OE1	2.27	0.66
1:gO:99:LEU:CA	2:ij:197:LYS:CD	2.68	0.66
2:hf:197:LYS:HE3	1:kA:102:GLU:CD	2.19	0.66
1:hr:70:GLY:HA3	6:qG:117:LYS:C	2.20	0.66
2:hI:298:LEU:O	2:hI:298:LEU:HD12	1.96	0.66
2:hK:239:PHE:CE1	2:hK:294:LEU:HD22	2.31	0.66
1:hQ:63:VAL:HG13	1:hQ:74:ASP:CB	2.26	0.66
2:hW:298:LEU:HD12	2:hW:298:LEU:O	1.96	0.66
2:ii:130:CYS:SG	2:ii:131:TYR:N	2.69	0.66
2:ik:86:VAL:O	2:ik:202:GLN:N	2.27	0.66
2:iM:298:LEU:HD12	2:iM:298:LEU:O	1.96	0.66
2:iW:98:VAL:HG11	2:jb:50:LEU:HD23	1.77	0.66
2:iZ:5:THR:HG22	1:jh:87:ASP:CB	2.26	0.66
2:jc:144:TYR:OH	2:jc:253:GLY:N	2.29	0.66
2:jl:197:LYS:HG2	1:lo:100:LYS:HB2	1.76	0.66
2:jo:298:LEU:HD12	2:jo:298:LEU:O	1.96	0.66
2:jz:5:THR:HG22	1:qc:90:LEU:HD22	1.76	0.66
2:jQ:298:LEU:HD12	2:jQ:298:LEU:O	1.96	0.66
2:kb:75:ILE:HG21	2:kb:177:ARG:HH12	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kb:184:TYR:OH	2:kb:204:PHE:CD1	2.49	0.66
1:km:63:VAL:HG13	1:km:74:ASP:CB	2.26	0.66
2:kF:86:VAL:HG23	2:kF:202:GLN:HB2	1.76	0.66
1:lm:102:GLU:CD	1:pQ:99:LEU:HA	2.21	0.66
2:lr:219:VAL:O	2:lr:246:MET:HE3	1.96	0.66
2:lF:98:VAL:HG11	2:lK:50:LEU:HD23	1.77	0.66
2:lG:75:ILE:HG21	2:lG:177:ARG:HH12	1.60	0.66
2:mi:197:LYS:HG2	1:ms:100:LYS:HB2	1.76	0.66
2:mw:197:LYS:HE3	1:oC:102:GLU:CD	2.19	0.66
2:mx:130:CYS:SG	2:mx:131:TYR:N	2.69	0.66
2:mz:86:VAL:HG23	2:mz:202:GLN:HB2	1.76	0.66
2:mX:98:VAL:HG11	2:nc:50:LEU:HD23	1.78	0.66
2:nT:239:PHE:CE1	2:nT:294:LEU:HD22	2.31	0.66
2:oT:130:CYS:SG	2:oT:131:TYR:N	2.69	0.66
2:oV:298:LEU:HD12	2:oV:298:LEU:O	1.96	0.66
2:pj:86:VAL:HG23	2:pj:202:GLN:HB2	1.76	0.66
2:pj:298:LEU:HD12	2:pj:298:LEU:O	1.96	0.66
2:pI:75:ILE:HG21	2:pI:177:ARG:HH12	1.60	0.66
2:pI:187:ARG:NH2	2:pN:190:PRO:O	2.28	0.66
2:pJ:68:MET:HE3	2:pM:84:VAL:HG21	1.76	0.66
3:qe:65:GLY:CA	4:qm:10:GLN:NE2	2.58	0.66
4:ql:19:VAL:O	4:ql:22:VAL:HG12	1.95	0.66
5:qp:53:GLU:OE1	5:qr:35:HIS:NE2	2.29	0.66
5:qt:96:ARG:CD	5:qv:114:LEU:HD23	2.11	0.66
6:qw:8:ASP:O	6:qy:39:ARG:NH1	2.28	0.66
5:qD:229:ILE:CD1	5:qF:232:LEU:CD2	2.74	0.66
5:qH:229:ILE:CD1	5:qJ:232:LEU:CD2	2.74	0.66
5:qJ:229:ILE:CD1	5:qL:232:LEU:CD2	2.74	0.66
6:qK:83:LEU:HD11	6:qK:89:VAL:CG1	2.26	0.66
1:an:102:GLU:OE1	1:oQ:99:LEU:HG	1.95	0.66
2:av:197:LYS:NZ	1:hO:99:LEU:CA	2.59	0.66
2:aJ:61:GLY:O	1:jW:103:ARG:CG	2.42	0.66
2:aN:294:LEU:CD2	2:aN:295:VAL:HG23	2.26	0.66
1:aU:99:LEU:HG	1:iP:102:GLU:OE1	1.95	0.66
1:be:99:LEU:HA	1:iR:102:GLU:CD	2.21	0.66
1:bE:90:LEU:HD22	2:dd:5:THR:HG22	1.76	0.66
2:bO:298:LEU:HD12	2:bO:298:LEU:O	1.96	0.66
1:bW:63:VAL:HG13	1:bW:74:ASP:CB	2.26	0.66
1:cw:99:LEU:CA	2:pJ:197:LYS:NZ	2.59	0.66
1:da:63:VAL:HG13	1:da:74:ASP:CB	2.26	0.66
2:ds:68:MET:HE3	2:dv:84:VAL:HG21	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dA:99:LEU:CA	2:gE:197:LYS:NZ	2.59	0.66
2:dT:184:TYR:OH	2:dT:204:PHE:CD1	2.49	0.66
1:ee:63:VAL:HG13	1:ee:74:ASP:CB	2.26	0.66
2:ei:130:CYS:SG	2:ei:131:TYR:N	2.69	0.66
2:em:239:PHE:CE1	2:em:294:LEU:HD22	2.31	0.66
1:eq:99:LEU:CA	2:ph:197:LYS:NZ	2.59	0.66
2:eu:219:VAL:O	2:eu:246:MET:HE3	1.96	0.66
1:eB:102:GLU:OE2	1:gB:99:LEU:CD2	2.43	0.66
1:eF:100:LYS:HB2	2:gp:197:LYS:HG2	1.76	0.66
2:eO:239:PHE:CE1	2:eO:294:LEU:HD22	2.31	0.66
2:fN:197:LYS:HE3	1:fZ:102:GLU:CD	2.19	0.66
2:fS:144:TYR:OH	2:fS:253:GLY:N	2.29	0.66
2:fS:239:PHE:CE1	2:fS:294:LEU:HD22	2.31	0.66
2:ga:219:VAL:O	2:ga:246:MET:HE3	1.96	0.66
2:gr:186:GLU:O	2:gS:191:SER:OG	2.08	0.66
2:gU:298:LEU:HD12	2:gU:298:LEU:O	1.96	0.66
2:hf:75:ILE:HG21	2:hf:177:ARG:HH12	1.60	0.66
2:hg:130:CYS:SG	2:hg:131:TYR:N	2.69	0.66
2:hg:197:LYS:NZ	1:mr:99:LEU:CA	2.59	0.66
1:hq:63:VAL:HG13	1:hq:74:ASP:CB	2.26	0.66
1:hD:63:VAL:HG13	1:hD:74:ASP:CB	2.26	0.66
1:is:63:VAL:HG13	1:is:74:ASP:CB	2.26	0.66
2:iv:65:ILE:HG13	2:jN:83:THR:HG21	1.76	0.66
2:iv:75:ILE:HG21	2:iv:177:ARG:HH12	1.60	0.66
1:iB:90:LEU:HD22	2:jN:5:THR:HG22	1.76	0.66
2:iY:68:MET:HE3	2:jb:84:VAL:HG21	1.76	0.66
1:js:99:LEU:CD1	1:lD:102:GLU:CD	2.60	0.66
1:jw:63:VAL:HG13	1:jw:74:ASP:CB	2.26	0.66
2:jM:219:VAL:O	2:jM:246:MET:HE3	1.96	0.66
2:kB:219:VAL:O	2:kB:246:MET:HE3	1.96	0.66
2:kD:191:SER:OG	2:lW:186:GLU:O	2.08	0.66
2:kP:98:VAL:HG11	2:kU:50:LEU:HD23	1.78	0.66
2:kR:130:CYS:SG	2:kR:131:TYR:N	2.69	0.66
2:kV:239:PHE:CE1	2:kV:294:LEU:HD22	2.31	0.66
2:lh:86:VAL:HG23	2:lh:202:GLN:HB2	1.76	0.66
2:lH:68:MET:HE3	2:lK:84:VAL:HG21	1.76	0.66
2:IJ:298:LEU:O	2:IJ:298:LEU:HD12	1.96	0.66
2:IL:144:TYR:OH	2:IL:253:GLY:N	2.29	0.66
2:IU:184:TYR:OH	2:IU:204:PHE:CD1	2.49	0.66
2:IX:298:LEU:HD12	2:IX:298:LEU:O	1.96	0.66
2:mh:67:ASP:OD1	1:mo:95:SER:OG	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mi:52:GLN:OE1	2:mi:52:GLN:N	2.24	0.66
2:mk:60:ILE:HG12	1:nu:105:THR:CG2	2.23	0.66
1:mu:88:GLU:N	1:mu:88:GLU:OE1	2.29	0.66
2:mK:184:TYR:OH	2:mK:204:PHE:CD1	2.49	0.66
1:nk:99:LEU:HG	1:oK:102:GLU:OE1	1.95	0.66
2:nn:130:CYS:SG	2:nn:131:TYR:N	2.69	0.66
2:nz:67:ASP:OD1	1:nG:95:SER:OG	2.13	0.66
2:oh:239:PHE:CE1	2:oh:294:LEU:HD22	2.31	0.66
2:or:130:CYS:SG	2:or:131:TYR:N	2.69	0.66
2:ov:294:LEU:CD2	2:ov:295:VAL:HG23	2.26	0.66
2:oD:219:VAL:O	2:oD:246:MET:HE3	1.96	0.66
2:oR:219:VAL:O	2:oR:246:MET:HE3	1.96	0.66
2:pt:98:VAL:HG11	2:py:50:LEU:HD23	1.78	0.66
5:qB:53:GLU:OE1	5:qD:35:HIS:NE2	2.29	0.66
1:ab:99:LEU:HA	1:ng:102:GLU:CD	2.21	0.66
1:ac:105:THR:HG21	2:oT:60:ILE:HG23	1.75	0.66
1:at:100:LYS:HZ1	1:bR:100:LYS:CD	2.09	0.66
2:au:219:VAL:O	2:au:246:MET:HE3	1.96	0.66
2:aI:75:ILE:HG21	2:aI:177:ARG:HH12	1.60	0.66
2:bk:184:TYR:OH	2:bk:204:PHE:CD1	2.49	0.66
1:bq:102:GLU:OE1	1:dp:99:LEU:HG	1.95	0.66
2:bz:68:MET:HE3	2:bC:84:VAL:HG21	1.76	0.66
2:bD:239:PHE:CE1	2:bD:294:LEU:HD22	2.31	0.66
1:bG:99:LEU:HA	1:gL:102:GLU:CD	2.21	0.66
1:bT:60:ARG:NH1	1:eR:99:LEU:CD1	2.25	0.66
2:bY:163:ALA:HB3	2:bY:265:VAL:CG1	2.25	0.66
1:cf:102:GLU:OE2	1:iH:99:LEU:HG	1.74	0.66
1:ch:99:LEU:HA	1:jf:102:GLU:CD	2.21	0.66
1:cl:102:GLU:CD	2:iv:197:LYS:HE3	2.19	0.66
2:co:130:CYS:SG	2:co:131:TYR:N	2.69	0.66
2:cE:86:VAL:HG23	2:cE:202:GLN:HB2	1.76	0.66
2:cG:144:TYR:OH	2:cG:253:GLY:N	2.29	0.66
1:cJ:102:GLU:CD	1:iD:99:LEU:HA	2.21	0.66
1:cV:102:GLU:OE1	1:eV:99:LEU:HG	1.95	0.66
1:cX:102:GLU:CD	1:dz:99:LEU:HA	2.21	0.66
2:dJ:87:LYS:NZ	2:dJ:201:GLU:OE1	2.27	0.66
2:eg:163:ALA:HB3	2:eg:265:VAL:CG1	2.25	0.66
2:el:87:LYS:NZ	2:el:201:GLU:OE1	2.27	0.66
2:eA:294:LEU:CD2	2:eA:295:VAL:HG23	2.26	0.66
2:fq:144:TYR:OH	2:fq:253:GLY:N	2.29	0.66
1:fv:100:LYS:HB2	2:nm:197:LYS:HG2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fy:219:VAL:O	2:fy:246:MET:HE3	1.96	0.66
1:gh:102:GLU:OE2	1:if:99:LEU:HG	1.74	0.66
2:gp:65:ILE:HG13	2:hT:83:THR:HG21	1.76	0.66
1:gO:99:LEU:HA	2:ij:197:LYS:CD	2.13	0.66
2:hi:298:LEU:O	2:hi:298:LEU:HD12	1.96	0.66
2:ht:130:CYS:SG	2:ht:131:TYR:N	2.69	0.66
2:iu:163:ALA:HB3	2:iu:265:VAL:CG1	2.25	0.66
1:iG:63:VAL:HG13	1:iG:74:ASP:CB	2.26	0.66
1:iH:88:GLU:N	1:iH:88:GLU:OE1	2.29	0.66
1:iR:99:LEU:HA	1:kj:102:GLU:CD	2.21	0.66
1:jg:105:THR:CG2	2:lt:60:ILE:CG2	2.62	0.66
2:jk:219:VAL:O	2:jk:246:MET:HE3	1.96	0.66
2:jl:5:THR:HG22	1:ly:90:LEU:HD22	1.76	0.66
2:jp:87:LYS:NZ	2:jp:201:GLU:OE1	2.27	0.66
1:jt:99:LEU:HD22	1:mS:102:GLU:HB2	1.73	0.66
1:jY:63:VAL:HG13	1:jY:74:ASP:CB	2.26	0.66
2:ld:163:ALA:HB3	2:ld:265:VAL:CG1	2.25	0.66
2:le:184:TYR:OH	2:le:204:PHE:CD1	2.49	0.66
2:lf:130:CYS:SG	2:lf:131:TYR:N	2.69	0.66
2:lK:87:LYS:NZ	2:lK:201:GLU:OE1	2.27	0.66
2:mj:130:CYS:SG	2:mj:131:TYR:N	2.69	0.66
1:mt:63:VAL:HG13	1:mt:74:ASP:CB	2.26	0.66
2:mP:144:TYR:OH	2:mP:253:GLY:N	2.29	0.66
1:nk:99:LEU:HG	1:oK:102:GLU:OE2	1.74	0.66
1:nI:99:LEU:HA	1:pa:102:GLU:CD	2.21	0.66
2:oh:144:TYR:OH	2:oh:253:GLY:N	2.29	0.66
1:on:99:LEU:CA	2:pY:197:LYS:CD	2.68	0.66
2:op:219:VAL:O	2:op:246:MET:HE3	1.96	0.66
2:oJ:239:PHE:CE1	2:oJ:294:LEU:HD22	2.31	0.66
2:oR:98:VAL:HG11	2:oW:50:LEU:HD23	1.78	0.66
2:oR:163:ALA:HB3	2:oR:265:VAL:CG1	2.25	0.66
2:pf:98:VAL:HG11	2:pk:50:LEU:HD23	1.77	0.66
2:pl:294:LEU:CD2	2:pl:295:VAL:HG23	2.26	0.66
2:pI:184:TYR:OH	2:pI:204:PHE:CD1	2.49	0.66
2:qb:144:TYR:OH	2:qb:253:GLY:N	2.29	0.66
3:qe:66:GLN:CA	4:qm:10:GLN:HG2	2.25	0.66
5:qp:252:LEU:CD2	6:qs:126:GLN:CB	2.58	0.66
5:qr:229:ILE:HD13	5:qt:232:LEU:CD2	2.25	0.66
5:qv:96:ARG:CD	5:qx:114:LEU:HD23	2.11	0.66
6:qI:83:LEU:HD11	6:qI:89:VAL:CG1	2.25	0.66
5:qJ:53:GLU:OE1	5:qL:35:HIS:NE2	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:qK:8:ASP:O	6:qM:39:ARG:NH1	2.28	0.66
1:ap:102:GLU:CD	1:dl:99:LEU:HA	2.21	0.66
1:aq:99:LEU:CA	2:ds:197:LYS:NZ	2.59	0.66
2:au:98:VAL:HG11	2:ay:50:LEU:HD23	1.78	0.66
2:az:144:TYR:OH	2:az:253:GLY:N	2.29	0.66
2:aK:197:LYS:CD	1:iU:99:LEU:HA	2.13	0.66
2:aN:239:PHE:CE1	2:aN:294:LEU:HD22	2.31	0.66
2:aZ:86:VAL:HG23	2:aZ:202:GLN:HB2	1.76	0.66
1:bc:90:LEU:HD22	2:iJ:5:THR:HG22	1.76	0.66
2:bj:98:VAL:HG11	2:bo:50:LEU:HD23	1.78	0.66
1:bt:99:LEU:C	2:ca:197:LYS:HZ2	2.03	0.66
1:bv:99:LEU:CA	2:df:197:LYS:CD	2.69	0.66
2:bz:130:CYS:SG	2:bz:131:TYR:N	2.69	0.66
1:bK:99:LEU:CD2	1:hL:102:GLU:OE2	2.43	0.66
2:bQ:238:ASN:OD1	2:bQ:239:PHE:N	2.29	0.66
1:bT:102:GLU:CD	1:eR:99:LEU:HA	2.21	0.66
1:cl:99:LEU:HG	1:iB:102:GLU:OE1	1.95	0.66
2:cq:298:LEU:O	2:cq:298:LEU:HD12	1.96	0.66
1:cv:102:GLU:CD	1:pC:99:LEU:HA	2.21	0.66
1:db:88:GLU:N	1:db:88:GLU:OE1	2.29	0.66
1:dm:99:LEU:CA	2:hU:197:LYS:NZ	2.59	0.66
1:do:63:VAL:HG13	1:do:74:ASP:CB	2.26	0.66
2:dF:184:TYR:OH	2:dF:204:PHE:CD1	2.49	0.66
2:dK:238:ASN:OD1	2:dK:239:PHE:N	2.29	0.66
2:dT:75:ILE:HG21	2:dT:177:ARG:HH12	1.60	0.66
2:ek:298:LEU:HD12	2:ek:298:LEU:O	1.96	0.66
1:ep:102:GLU:CD	1:pa:99:LEU:HA	2.21	0.66
2:eu:67:ASP:OD1	1:eB:95:SER:OG	2.13	0.66
1:eD:99:LEU:HA	1:ib:102:GLU:CD	2.21	0.66
2:eI:219:VAL:O	2:eI:246:MET:HE3	1.96	0.66
2:eK:197:LYS:NZ	1:ic:99:LEU:CA	2.59	0.66
2:eX:184:TYR:OH	2:eX:204:PHE:CD1	2.49	0.66
2:fk:219:VAL:O	2:fk:246:MET:HE3	1.96	0.66
2:fm:61:GLY:O	1:gy:103:ARG:CG	2.42	0.66
2:fq:238:ASN:OD1	2:fq:239:PHE:N	2.30	0.66
2:fN:197:LYS:HG2	1:fX:100:LYS:HB2	1.76	0.66
1:fT:102:GLU:OE1	1:fZ:99:LEU:HG	1.95	0.66
2:gd:197:LYS:CD	1:ie:99:LEU:HA	2.13	0.66
2:gE:130:CYS:SG	2:gE:131:TYR:N	2.69	0.66
1:hl:102:GLU:OE1	1:kA:99:LEU:HG	1.95	0.66
1:hn:102:GLU:CD	1:kK:99:LEU:HA	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hF:219:VAL:O	2:hF:246:MET:HE3	1.96	0.66
2:hT:75:ILE:HG21	2:hT:177:ARG:HH12	1.60	0.66
2:hY:294:LEU:CD2	2:hY:295:VAL:HG23	2.26	0.66
2:ih:75:ILE:HG21	2:ih:177:ARG:HH12	1.60	0.66
2:ih:184:TYR:OH	2:ih:204:PHE:CD1	2.49	0.66
1:ip:102:GLU:CD	1:lm:99:LEU:HA	2.21	0.66
2:iA:239:PHE:CE1	2:iA:294:LEU:HD22	2.31	0.66
2:jE:197:LYS:HA	2:pW:62:GLN:CD	2.21	0.66
2:kg:144:TYR:OH	2:kg:253:GLY:N	2.29	0.66
1:kh:90:LEU:HD22	2:ls:5:THR:HG22	1.76	0.66
2:kH:144:TYR:OH	2:kH:253:GLY:N	2.29	0.66
2:kT:298:LEU:HD12	2:kT:298:LEU:O	1.96	0.66
1:kY:105:THR:CG2	2:lI:60:ILE:HG12	2.23	0.66
1:lb:63:VAL:HG13	1:lb:74:ASP:CB	2.26	0.66
2:lf:197:LYS:NZ	1:oz:99:LEU:CA	2.59	0.66
2:lj:239:PHE:CE1	2:lj:294:LEU:HD22	2.31	0.66
1:ln:99:LEU:CA	2:pX:197:LYS:NZ	2.59	0.66
2:lL:238:ASN:OD1	2:lL:239:PHE:N	2.29	0.66
2:IT:219:VAL:O	2:IT:246:MET:HE3	1.96	0.66
2:IY:87:LYS:NZ	2:IY:201:GLU:OE1	2.27	0.66
1:mg:88:GLU:N	1:mg:88:GLU:OE1	2.29	0.66
2:mj:197:LYS:NZ	1:nv:99:LEU:CA	2.59	0.66
2:mB:239:PHE:CE1	2:mB:294:LEU:HD22	2.31	0.66
1:mE:102:GLU:CD	1:ng:99:LEU:HA	2.21	0.66
2:mP:238:ASN:OD1	2:mP:239:PHE:N	2.29	0.66
1:nx:63:VAL:HG13	1:nx:74:ASP:CB	2.26	0.66
2:nO:5:THR:HG22	1:oi:90:LEU:HD22	1.76	0.66
2:oh:238:ASN:OD1	2:oh:239:PHE:N	2.29	0.66
1:on:63:VAL:HG13	1:on:74:ASP:CB	2.26	0.66
1:oo:88:GLU:OE1	1:oo:88:GLU:N	2.29	0.66
2:oE:184:TYR:OH	2:oE:204:PHE:CD1	2.49	0.66
2:oJ:294:LEU:CD2	2:oJ:295:VAL:HG23	2.26	0.66
3:qe:64:GLY:C	4:qm:10:GLN:HE22	2.02	0.66
3:qf:63:GLN:NE2	4:qk:221:ASP:OD1	2.16	0.66
3:qg:66:GLN:CA	4:qk:8:TYR:O	2.44	0.66
5:qp:319:LEU:HD11	5:qL:317:PHE:HZ	1.59	0.66
5:qt:229:ILE:HD13	5:qv:232:LEU:CD2	2.25	0.66
5:qz:252:LEU:HD22	6:qC:126:GLN:HG2	1.72	0.66
6:qG:8:ASP:O	6:qI:39:ARG:NH1	2.28	0.66
2:ah:58:GLU:OE1	2:oc:78:LYS:NZ	2.27	0.65
1:ap:99:LEU:CD1	1:hN:60:ARG:NH1	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aW:197:LYS:HE3	1:bi:102:GLU:CD	2.20	0.65
2:aY:5:THR:HG22	1:bg:87:ASP:CB	2.26	0.65
2:bb:239:PHE:CE1	2:bb:294:LEU:HD22	2.31	0.65
1:be:102:GLU:CD	1:kj:99:LEU:HA	2.21	0.65
1:bf:105:THR:HG21	2:ds:60:ILE:HG23	1.75	0.65
2:by:62:GLN:CD	2:di:197:LYS:HA	2.21	0.65
2:bB:86:VAL:O	2:bB:202:GLN:N	2.27	0.65
2:bB:298:LEU:HD12	2:bB:298:LEU:O	1.96	0.65
2:bD:197:LYS:HA	2:hT:62:GLN:CD	2.22	0.65
2:bQ:239:PHE:CE1	2:bQ:294:LEU:HD22	2.31	0.65
2:cc:86:VAL:O	2:cc:202:GLN:N	2.27	0.65
2:cc:298:LEU:HD12	2:cc:298:LEU:O	1.96	0.65
2:cs:144:TYR:OH	2:cs:253:GLY:N	2.29	0.65
1:ct:102:GLU:OE1	1:ps:99:LEU:HG	1.95	0.65
1:cy:63:VAL:HG13	1:cy:74:ASP:CB	2.26	0.65
2:cC:60:ILE:HG23	1:pb:105:THR:HG21	1.74	0.65
2:cC:197:LYS:NZ	1:dO:99:LEU:CA	2.59	0.65
2:cG:197:LYS:HA	2:cP:62:GLN:CD	2.22	0.65
2:cP:184:TYR:OH	2:cP:204:PHE:CD1	2.49	0.65
2:cU:239:PHE:CE1	2:cU:294:LEU:HD22	2.31	0.65
1:dz:102:GLU:CD	1:gx:99:LEU:HA	2.21	0.65
1:dB:100:LYS:HB2	2:eX:197:LYS:HG2	1.76	0.65
1:dD:88:GLU:N	1:dD:88:GLU:OE1	2.29	0.65
2:dU:197:LYS:NZ	1:pD:99:LEU:CA	2.59	0.65
2:dY:238:ASN:OD1	2:dY:239:PHE:N	2.29	0.65
1:ef:99:LEU:CD2	1:nG:102:GLU:OE2	2.43	0.65
2:eg:67:ASP:OD1	1:en:95:SER:OG	2.13	0.65
2:ei:197:LYS:NZ	1:fu:99:LEU:CA	2.59	0.65
1:en:102:GLU:OE1	1:et:99:LEU:HG	1.95	0.65
1:et:88:GLU:OE1	1:et:88:GLU:N	2.29	0.65
2:ex:186:GLU:O	2:ph:191:SER:OG	2.08	0.65
1:eH:88:GLU:OE1	1:eH:88:GLU:N	2.29	0.65
2:eM:298:LEU:HD12	2:eM:298:LEU:O	1.96	0.65
1:fJ:100:LYS:HB2	2:lU:197:LYS:HG2	1.76	0.65
1:fW:60:ARG:CD	1:ie:99:LEU:HD21	2.18	0.65
2:gb:75:ILE:HG21	2:gb:177:ARG:HH12	1.60	0.65
2:gg:294:LEU:CD2	2:gg:295:VAL:HG23	2.26	0.65
1:gm:63:VAL:HG13	1:gm:74:ASP:CB	2.26	0.65
1:gn:88:GLU:N	1:gn:88:GLU:OE1	2.29	0.65
2:go:98:VAL:HG11	2:gt:50:LEU:HD23	1.77	0.65
1:ha:103:ARG:CG	2:kD:61:GLY:O	2.42	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:he:98:VAL:HG11	2:hj:50:LEU:HD23	1.78	0.65
2:hf:62:GLN:CD	2:il:197:LYS:HA	2.22	0.65
1:ho:105:THR:HG21	2:hG:60:ILE:HG23	1.75	0.65
2:hx:95:ASN:C	5:qz:47:ARG:HE	2.04	0.65
2:hx:144:TYR:OH	2:hx:253:GLY:N	2.29	0.65
2:hx:239:PHE:CE1	2:hx:294:LEU:HD22	2.31	0.65
1:hA:99:LEU:HA	1:kw:102:GLU:CD	2.21	0.65
2:hF:32:LEU:CD1	5:qv:179:ALA:H	2.08	0.65
2:iw:130:CYS:SG	2:iw:131:TYR:N	2.69	0.65
2:iw:191:SER:OG	2:pY:186:GLU:O	2.08	0.65
2:iX:75:ILE:HG21	2:iX:177:ARG:HH12	1.60	0.65
2:jo:86:VAL:O	2:jo:202:GLN:N	2.27	0.65
2:jq:144:TYR:OH	2:jq:253:GLY:N	2.29	0.65
2:jE:239:PHE:CE1	2:jE:294:LEU:HD22	2.31	0.65
2:ka:219:VAL:O	2:ka:246:MET:HE3	1.96	0.65
2:kQ:184:TYR:OH	2:kQ:204:PHE:CD1	2.49	0.65
2:kS:197:LYS:CD	1:mV:99:LEU:HA	2.13	0.65
1:lB:99:LEU:CA	2:oF:197:LYS:NZ	2.59	0.65
2:lF:67:ASP:OD1	1:lM:95:SER:OG	2.13	0.65
2:lG:184:TYR:OH	2:lG:204:PHE:CD1	2.49	0.65
2:lJ:86:VAL:O	2:lJ:202:GLN:N	2.27	0.65
2:lZ:238:ASN:OD1	2:lZ:239:PHE:N	2.29	0.65
2:mi:197:LYS:HE3	1:mu:102:GLU:CD	2.19	0.65
2:mn:197:LYS:HA	2:mw:62:GLN:CD	2.21	0.65
1:mr:105:THR:CG2	2:oF:60:ILE:CG2	2.62	0.65
1:mH:99:LEU:CA	2:os:197:LYS:CD	2.68	0.65
2:mK:65:ILE:HG13	2:oq:83:THR:HG21	1.76	0.65
2:mX:219:VAL:O	2:mX:246:MET:HE3	1.96	0.65
2:nm:75:ILE:HG21	2:nm:177:ARG:HH12	1.60	0.65
2:nF:238:ASN:OD1	2:nF:239:PHE:N	2.29	0.65
2:nF:239:PHE:CE1	2:nF:294:LEU:HD22	2.31	0.65
2:nF:294:LEU:CD2	2:nF:295:VAL:HG23	2.26	0.65
2:nS:87:LYS:NZ	2:nS:201:GLU:OE1	2.27	0.65
2:oS:184:TYR:OH	2:oS:204:PHE:CD1	2.49	0.65
2:oX:238:ASN:OD1	2:oX:239:PHE:N	2.29	0.65
2:pj:86:VAL:O	2:pj:202:GLN:N	2.27	0.65
2:pl:144:TYR:OH	2:pl:253:GLY:N	2.29	0.65
1:pr:63:VAL:HG13	1:pr:74:ASP:CB	2.26	0.65
2:pt:219:VAL:O	2:pt:246:MET:HE3	1.96	0.65
2:pu:184:TYR:OH	2:pu:204:PHE:CD1	2.49	0.65
2:pw:5:THR:HG22	1:pE:87:ASP:CB	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:px:298:LEU:O	2:px:298:LEU:HD12	1.96	0.65
2:pz:239:PHE:CE1	2:pz:294:LEU:HD22	2.31	0.65
2:pV:219:VAL:O	2:pV:246:MET:HE3	1.96	0.65
3:qd:84:TYR:CD1	6:qs:20:GLU:OE2	2.48	0.65
4:qj:53:GLN:HG2	4:qo:64:LYS:NZ	2.11	0.65
4:qk:116:PHE:CD1	4:ql:202:ILE:HD13	2.26	0.65
4:ql:64:LYS:NZ	4:qm:53:GLN:HG2	2.11	0.65
4:qm:19:VAL:O	4:qm:22:VAL:HG12	1.95	0.65
5:qt:252:LEU:HD22	6:qw:126:GLN:HG2	1.72	0.65
5:qx:53:GLU:OE1	5:qz:35:HIS:NE2	2.29	0.65
1:ae:99:LEU:HD21	1:nX:60:ARG:CD	2.18	0.65
1:aU:100:LYS:HZ1	1:iP:100:LYS:CD	2.09	0.65
2:aV:219:VAL:O	2:aV:246:MET:HE3	1.96	0.65
1:bh:63:VAL:HG13	1:bh:74:ASP:CB	2.26	0.65
2:bl:197:LYS:NZ	1:iS:99:LEU:CA	2.59	0.65
1:bw:99:LEU:HG	1:dj:102:GLU:OE1	1.95	0.65
2:bD:144:TYR:OH	2:bD:253:GLY:N	2.29	0.65
2:bO:86:VAL:O	2:bO:202:GLN:N	2.27	0.65
2:cs:239:PHE:CE1	2:cs:294:LEU:HD22	2.31	0.65
2:cC:130:CYS:SG	2:cC:131:TYR:N	2.69	0.65
2:cQ:68:MET:HE3	2:cT:84:VAL:HG21	1.76	0.65
2:cU:197:LYS:HA	2:eX:62:GLN:CD	2.22	0.65
1:cV:100:LYS:CD	1:eV:100:LYS:HZ1	2.08	0.65
2:dv:87:LYS:NZ	2:dv:201:GLU:OE1	2.27	0.65
2:dw:239:PHE:CE1	2:dw:294:LEU:HD22	2.31	0.65
2:dG:130:CYS:SG	2:dG:131:TYR:N	2.69	0.65
1:dN:99:LEU:HA	1:pC:102:GLU:CD	2.21	0.65
1:dQ:63:VAL:HG13	1:dQ:74:ASP:CB	2.26	0.65
2:eh:75:ILE:HG21	2:eh:177:ARG:HH12	1.60	0.65
2:ev:184:TYR:OH	2:ev:204:PHE:CD1	2.49	0.65
2:ew:197:LYS:NZ	1:nJ:99:LEU:CA	2.59	0.65
2:eO:238:ASN:OD1	2:eO:239:PHE:N	2.30	0.65
1:eU:63:VAL:HG13	1:eU:74:ASP:CB	2.26	0.65
2:eX:75:ILE:HG21	2:eX:177:ARG:HH12	1.60	0.65
1:ff:102:GLU:CD	1:ib:99:LEU:HA	2.21	0.65
1:fj:99:LEU:HG	1:gJ:102:GLU:OE1	1.95	0.65
2:fo:298:LEU:HD12	2:fo:298:LEU:O	1.96	0.65
2:gp:62:GLN:CD	2:hY:197:LYS:HA	2.22	0.65
1:gO:63:VAL:HG13	1:gO:74:ASP:CB	2.26	0.65
2:gR:75:ILE:HG21	2:gR:177:ARG:HH12	1.60	0.65
1:hc:63:VAL:HG13	1:hc:74:ASP:CB	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:he:219:VAL:O	2:he:246:MET:HE3	1.96	0.65
2:hk:238:ASN:OD1	2:hk:239:PHE:N	2.29	0.65
2:hx:238:ASN:OD1	2:hx:239:PHE:N	2.29	0.65
1:ip:99:LEU:HA	1:pQ:102:GLU:CD	2.21	0.65
2:iW:219:VAL:O	2:iW:246:MET:HE3	1.96	0.65
2:jc:239:PHE:CE1	2:jc:294:LEU:HD22	2.31	0.65
2:jc:294:LEU:CD2	2:jc:295:VAL:HG23	2.26	0.65
2:jl:184:TYR:OH	2:jl:204:PHE:CD1	2.49	0.65
1:jr:102:GLU:OE1	1:lq:99:LEU:HG	1.95	0.65
1:ju:103:ARG:CG	2:pX:61:GLY:O	2.42	0.65
2:jy:219:VAL:O	2:jy:246:MET:HE3	1.96	0.65
2:jA:197:LYS:NZ	1:mT:99:LEU:CA	2.59	0.65
2:jC:86:VAL:HG23	2:jC:202:GLN:HB2	1.76	0.65
1:jI:99:LEU:CA	2:or:197:LYS:NZ	2.59	0.65
2:jO:197:LYS:HZ2	1:oN:99:LEU:C	2.04	0.65
2:kD:130:CYS:SG	2:kD:131:TYR:N	2.69	0.65
2:kH:239:PHE:CE1	2:kH:294:LEU:HD22	2.31	0.65
1:kY:60:ARG:NH1	1:lA:99:LEU:CD1	2.26	0.65
2:lj:238:ASN:OD1	2:lj:239:PHE:N	2.29	0.65
2:lv:298:LEU:O	2:lv:298:LEU:HD12	1.96	0.65
2:IV:130:CYS:SG	2:IV:131:TYR:N	2.69	0.65
2:mB:238:ASN:OD1	2:mB:239:PHE:N	2.29	0.65
2:mJ:98:VAL:HG11	2:mO:50:LEU:HD23	1.78	0.65
2:mK:62:GLN:CD	2:ov:197:LYS:HA	2.22	0.65
2:nb:86:VAL:O	2:nb:202:GLN:N	2.27	0.65
2:nR:298:LEU:HD12	2:nR:298:LEU:O	1.96	0.65
2:nT:197:LYS:HA	2:oc:62:GLN:CD	2.22	0.65
2:of:298:LEU:HD12	2:of:298:LEU:O	1.96	0.65
1:ol:99:LEU:CA	2:oT:197:LYS:NZ	2.59	0.65
2:ov:239:PHE:CE1	2:ov:294:LEU:HD22	2.31	0.65
1:pd:63:VAL:HG13	1:pd:74:ASP:CB	2.26	0.65
2:pl:239:PHE:CE1	2:pl:294:LEU:HD22	2.31	0.65
2:pL:298:LEU:HD12	2:pL:298:LEU:O	1.96	0.65
2:pZ:298:LEU:HD12	2:pZ:298:LEU:O	1.96	0.65
3:qe:66:GLN:HA	4:qm:8:TYR:CD2	2.32	0.65
4:qk:64:LYS:NZ	4:ql:53:GLN:HG2	2.11	0.65
6:qw:8:ASP:HA	6:qy:39:ARG:NH1	2.12	0.65
6:qy:83:LEU:HD11	6:qy:89:VAL:CG1	2.25	0.65
2:ah:83:THR:HG21	2:oS:65:ILE:HG13	1.76	0.65
2:aw:5:THR:HG22	1:kl:87:ASP:CB	2.26	0.65
1:aE:87:ASP:CB	2:kd:5:THR:HG22	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aL:298:LEU:HD12	2:aL:298:LEU:O	1.96	0.65
1:aU:102:GLU:CD	2:iJ:197:LYS:HE3	2.20	0.65
2:bo:87:LYS:NZ	2:bo:201:GLU:OE1	2.27	0.65
1:bs:99:LEU:HA	1:eR:102:GLU:CD	2.21	0.65
1:bt:99:LEU:CA	2:ca:197:LYS:NZ	2.59	0.65
2:bQ:144:TYR:OH	2:bQ:253:GLY:N	2.29	0.65
2:ce:144:TYR:OH	2:ce:253:GLY:N	2.29	0.65
2:ce:197:LYS:HA	2:iJ:62:GLN:CD	2.21	0.65
2:cD:5:THR:HG22	1:cL:87:ASP:CB	2.26	0.65
2:cG:239:PHE:CE1	2:cG:294:LEU:HD22	2.31	0.65
1:cM:63:VAL:HG13	1:cM:74:ASP:CB	2.26	0.65
2:cQ:197:LYS:NZ	1:pp:99:LEU:CA	2.59	0.65
2:di:238:ASN:OD1	2:di:239:PHE:N	2.30	0.65
2:dF:62:GLN:CD	2:fc:197:LYS:HA	2.22	0.65
1:dR:88:GLU:N	1:dR:88:GLU:OE1	2.29	0.65
2:dS:219:VAL:O	2:dS:246:MET:HE3	1.96	0.65
2:dT:5:THR:HG22	1:nU:90:LEU:HD22	1.76	0.65
2:eA:197:LYS:HA	2:gD:62:GLN:CD	2.21	0.65
2:eA:239:PHE:CE1	2:eA:294:LEU:HD22	2.31	0.65
2:eK:130:CYS:SG	2:eK:131:TYR:N	2.69	0.65
2:eY:130:CYS:SG	2:eY:131:TYR:N	2.69	0.65
2:fl:184:TYR:OH	2:fl:204:PHE:CD1	2.49	0.65
2:fE:197:LYS:HA	2:mi:62:GLN:CD	2.21	0.65
1:fK:99:LEU:HA	2:lW:197:LYS:CD	2.13	0.65
2:gg:144:TYR:OH	2:gg:253:GLY:N	2.29	0.65
2:gg:238:ASN:OD1	2:gg:239:PHE:N	2.30	0.65
2:gu:238:ASN:OD1	2:gu:239:PHE:N	2.29	0.65
2:gC:219:VAL:O	2:gC:246:MET:HE3	1.96	0.65
2:gR:184:TYR:OH	2:gR:204:PHE:CD1	2.49	0.65
2:gS:61:GLY:O	1:ic:103:ARG:CG	2.42	0.65
2:gS:130:CYS:SG	2:gS:131:TYR:N	2.69	0.65
2:gW:197:LYS:HA	2:lU:62:GLN:CD	2.22	0.65
1:hr:88:GLU:N	1:hr:88:GLU:OE1	2.29	0.65
2:hF:67:ASP:OD1	1:hL:95:SER:OG	2.13	0.65
1:hR:88:GLU:N	1:hR:88:GLU:OE1	2.29	0.65
1:is:102:GLU:CD	1:oj:99:LEU:CD1	2.60	0.65
1:iU:63:VAL:HG13	1:iU:74:ASP:CB	2.26	0.65
2:iY:197:LYS:NZ	1:kk:99:LEU:CA	2.59	0.65
2:ja:86:VAL:O	2:ja:202:GLN:N	2.27	0.65
2:jc:197:LYS:HA	2:jl:62:GLN:CD	2.22	0.65
2:jm:68:MET:HE3	2:jp:84:VAL:HG21	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jK:63:VAL:HG13	1:jK:74:ASP:CB	2.26	0.65
2:jN:75:ILE:HG21	2:jN:177:ARG:HH12	1.60	0.65
2:kr:298:LEU:HD12	2:kr:298:LEU:O	1.96	0.65
1:lc:88:GLU:OE1	1:lc:88:GLU:N	2.29	0.65
1:lc:101:VAL:CG1	2:mK:198:GLU:CD	2.58	0.65
2:ls:184:TYR:OH	2:ls:204:PHE:CD1	2.49	0.65
2:lw:171:TYR:OH	2:lw:175:THR:OG1	2.12	0.65
1:lD:63:VAL:HG13	1:lD:74:ASP:CB	2.26	0.65
1:mc:99:LEU:HA	1:nu:102:GLU:CD	2.21	0.65
2:mh:98:VAL:HG11	2:mm:50:LEU:HD23	1.78	0.65
1:mr:105:THR:HG21	2:oF:60:ILE:HG22	1.57	0.65
2:mw:184:TYR:OH	2:mw:204:PHE:CD1	2.49	0.65
2:mB:197:LYS:HA	2:oE:62:GLN:CD	2.22	0.65
1:mH:63:VAL:HG13	1:mH:74:ASP:CB	2.26	0.65
1:nj:99:LEU:HA	2:oG:197:LYS:CD	2.13	0.65
2:nr:294:LEU:CD2	2:nr:295:VAL:HG23	2.26	0.65
2:nD:86:VAL:O	2:nD:202:GLN:N	2.27	0.65
2:nT:144:TYR:OH	2:nT:253:GLY:N	2.29	0.65
2:nT:238:ASN:OD1	2:nT:239:PHE:N	2.29	0.65
1:ok:102:GLU:CD	1:oM:99:LEU:HA	2.21	0.65
2:oX:239:PHE:CE1	2:oX:294:LEU:HD22	2.31	0.65
3:qd:55:GLU:HB3	4:qn:223:ASN:HD21	1.61	0.65
3:qe:68:ALA:CB	4:qm:8:TYR:CZ	2.79	0.65
3:qf:68:ALA:CB	4:ql:8:TYR:CE2	2.79	0.65
3:qh:133:ALA:HB3	3:qh:138:TYR:HD2	1.59	0.65
5:qp:229:ILE:CD1	5:qr:232:LEU:CD2	2.74	0.65
5:qp:405:ILE:CD1	5:qL:398:TRP:CH2	2.72	0.65
6:qA:8:ASP:O	6:qC:39:ARG:NH1	2.28	0.65
5:qB:229:ILE:HD13	5:qD:232:LEU:CD2	2.25	0.65
2:am:239:PHE:CE1	2:am:294:LEU:HD22	2.31	0.65
1:aC:99:LEU:HA	1:kK:102:GLU:CD	2.21	0.65
2:aI:184:TYR:OH	2:aI:204:PHE:CD1	2.49	0.65
2:aJ:197:LYS:NZ	1:kL:99:LEU:CA	2.59	0.65
2:aV:98:VAL:HG11	2:ba:50:LEU:HD23	1.78	0.65
2:by:78:LYS:NZ	2:hT:58:GLU:OE1	2.27	0.65
2:by:238:ASN:OD1	2:by:239:PHE:N	2.30	0.65
2:bz:197:LYS:NZ	1:eS:99:LEU:CA	2.59	0.65
2:bD:294:LEU:CD2	2:bD:295:VAL:HG23	2.26	0.65
1:bK:100:LYS:HZ1	1:hL:100:LYS:HG2	1.61	0.65
2:bZ:184:TYR:OH	2:bZ:204:PHE:CD1	2.49	0.65
1:cv:99:LEU:HA	1:dN:102:GLU:CD	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cJ:60:ARG:NH1	1:iD:99:LEU:CD1	2.26	0.65
2:cU:238:ASN:OD1	2:cU:239:PHE:N	2.29	0.65
2:dg:86:VAL:HG23	2:dg:202:GLN:HB2	1.76	0.65
2:di:239:PHE:CE1	2:di:294:LEU:HD22	2.31	0.65
1:dA:103:ARG:CG	2:ph:61:GLY:O	2.42	0.65
2:dI:298:LEU:HD12	2:dI:298:LEU:O	1.96	0.65
2:dK:239:PHE:CE1	2:dK:294:LEU:HD22	2.31	0.65
2:em:238:ASN:OD1	2:em:239:PHE:N	2.29	0.65
1:eF:87:ASP:CB	2:gr:5:THR:HG22	2.26	0.65
2:fa:298:LEU:HD12	2:fa:298:LEU:O	1.96	0.65
1:fi:63:VAL:HG13	1:fi:74:ASP:CB	2.26	0.65
1:fj:88:GLU:OE1	1:fj:88:GLU:N	2.29	0.65
1:fx:99:LEU:CD2	1:ns:102:GLU:OE2	2.43	0.65
2:fE:238:ASN:OD1	2:fE:239:PHE:N	2.30	0.65
2:fN:62:GLN:CD	2:lZ:197:LYS:HA	2.21	0.65
2:fN:184:TYR:OH	2:fN:204:PHE:CD1	2.49	0.65
1:fV:99:LEU:CD1	1:mc:60:ARG:NH1	2.25	0.65
2:hY:239:PHE:CE1	2:hY:294:LEU:HD22	2.31	0.65
1:if:88:GLU:N	1:if:88:GLU:OE1	2.29	0.65
1:jd:102:GLU:OE1	1:jj:99:LEU:HG	1.95	0.65
1:jt:99:LEU:HA	1:mS:102:GLU:CD	2.21	0.65
1:jx:88:GLU:OE1	1:jx:88:GLU:N	2.29	0.65
2:kC:184:TYR:OH	2:kC:204:PHE:CD1	2.49	0.65
1:kL:105:THR:CG2	2:mZ:60:ILE:CG2	2.62	0.65
2:kP:67:ASP:OD1	1:kW:95:SER:OG	2.13	0.65
2:kV:197:LYS:HA	2:mY:62:GLN:CD	2.21	0.65
2:kV:238:ASN:OD1	2:kV:239:PHE:N	2.29	0.65
1:kZ:99:LEU:CA	2:lH:197:LYS:NZ	2.59	0.65
2:ml:298:LEU:O	2:ml:298:LEU:HD12	1.96	0.65
2:mv:67:ASP:OD1	1:mC:95:SER:OG	2.13	0.65
1:mI:88:GLU:N	1:mI:88:GLU:OE1	2.29	0.65
2:nb:298:LEU:O	2:nb:298:LEU:HD12	1.96	0.65
2:nD:298:LEU:HD12	2:nD:298:LEU:O	1.96	0.65
2:ob:219:VAL:O	2:ob:246:MET:HE3	1.96	0.65
2:oq:62:GLN:CD	2:qb:197:LYS:HA	2.22	0.65
2:pf:219:VAL:O	2:pf:246:MET:HE3	1.96	0.65
2:pg:184:TYR:OH	2:pg:204:PHE:CD1	2.49	0.65
2:pl:238:ASN:OD1	2:pl:239:PHE:N	2.29	0.65
2:pu:238:ASN:OD1	2:pu:239:PHE:N	2.30	0.65
3:qi:66:GLN:C	4:qo:8:TYR:HD2	2.03	0.65
4:qn:64:LYS:NZ	4:qo:53:GLN:HG2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qr:53:GLU:OE1	5:qt:35:HIS:NE2	2.29	0.65
5:qr:252:LEU:HD22	6:qu:126:GLN:HG3	1.69	0.65
5:qt:229:ILE:CD1	5:qv:232:LEU:CD2	2.74	0.65
5:qx:96:ARG:CD	5:qz:114:LEU:HD23	2.11	0.65
5:qx:229:ILE:CD1	5:qz:232:LEU:CD2	2.74	0.65
5:qz:229:ILE:CD1	5:qB:232:LEU:CD2	2.74	0.65
5:qF:229:ILE:CD1	5:qH:232:LEU:CD2	2.74	0.65
1:aO:102:GLU:OE2	1:iV:99:LEU:CD2	2.43	0.65
1:aQ:102:GLU:CD	1:jf:99:LEU:HA	2.21	0.65
2:aY:197:LYS:CD	1:bh:99:LEU:HA	2.13	0.65
2:bp:197:LYS:HA	2:dr:62:GLN:CD	2.22	0.65
2:bp:238:ASN:OD1	2:bp:239:PHE:N	2.30	0.65
2:by:184:TYR:OH	2:by:204:PHE:CD1	2.49	0.65
2:bM:130:CYS:SG	2:bM:131:TYR:N	2.69	0.65
2:cc:167:GLY:N	2:cc:262:ASN:OD1	2.30	0.65
2:co:60:ILE:HG23	1:iq:105:THR:HG21	1.75	0.65
2:cP:75:ILE:HG21	2:cP:177:ARG:HH12	1.60	0.65
2:dd:62:GLN:CD	2:eO:197:LYS:HA	2.21	0.65
2:dd:184:TYR:OH	2:dd:204:PHE:CD1	2.49	0.65
2:dq:219:VAL:O	2:dq:246:MET:HE3	1.96	0.65
1:ea:99:LEU:CD1	1:mf:102:GLU:CD	2.60	0.65
1:ef:88:GLU:N	1:ef:88:GLU:OE1	2.29	0.65
2:ey:298:LEU:HD12	2:ey:298:LEU:O	1.96	0.65
1:eG:99:LEU:CA	2:gr:197:LYS:CD	2.69	0.65
2:eI:98:VAL:HG11	2:eN:50:LEU:HD23	1.78	0.65
2:eN:87:LYS:NZ	2:eN:201:GLU:OE1	2.27	0.65
2:eO:294:LEU:CD2	2:eO:295:VAL:HG23	2.26	0.65
1:fg:103:ARG:CG	2:nB:61:GLY:O	2.42	0.65
1:fg:105:THR:HG21	2:nB:60:ILE:HG23	1.75	0.65
2:fq:197:LYS:HA	2:nA:62:GLN:CD	2.21	0.65
2:fq:239:PHE:CE1	2:fq:294:LEU:HD22	2.31	0.65
2:fA:130:CYS:SG	2:fA:131:TYR:N	2.69	0.65
1:fF:102:GLU:OE2	1:mg:99:LEU:CD2	2.43	0.65
1:fK:63:VAL:HG13	1:fK:74:ASP:CB	2.26	0.65
2:fM:219:VAL:O	2:fM:246:MET:HE3	1.96	0.65
2:fN:238:ASN:OD1	2:fN:239:PHE:N	2.30	0.65
2:fO:197:LYS:HZ2	1:ha:99:LEU:C	2.05	0.65
1:gv:83:GLY:HA3	2:hT:8:LEU:HD13	1.79	0.65
2:gW:239:PHE:CE1	2:gW:294:LEU:HD22	2.31	0.65
2:hs:170:TRP:N	5:qz:178:PRO:CB	2.39	0.65
2:hv:167:GLY:N	2:hv:262:ASN:OD1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hy:102:GLU:OE1	1:hE:99:LEU:HG	1.95	0.65
2:hG:130:CYS:SG	2:hG:131:TYR:N	2.69	0.65
2:hJ:87:LYS:NZ	2:hJ:201:GLU:OE1	2.27	0.65
2:hT:184:TYR:OH	2:hT:204:PHE:CD1	2.49	0.65
2:ig:219:VAL:O	2:ig:246:MET:HE3	1.96	0.65
2:iO:294:LEU:CD2	2:iO:295:VAL:HG23	2.26	0.65
2:ja:167:GLY:N	2:ja:262:ASN:OD1	2.30	0.65
2:jo:167:GLY:N	2:jo:262:ASN:OD1	2.30	0.65
2:jQ:197:LYS:HA	2:ls:62:GLN:CD	2.22	0.65
2:jQ:239:PHE:CE1	2:jQ:294:LEU:HD22	2.31	0.65
1:ju:99:LEU:C	2:kc:197:LYS:HZ2	2.03	0.65
2:jE:238:ASN:OD1	2:jE:239:PHE:N	2.29	0.65
1:jL:99:LEU:HG	1:pO:102:GLU:OE1	1.95	0.65
2:jS:144:TYR:OH	2:jS:253:GLY:N	2.29	0.65
1:jZ:100:LYS:HZ3	1:ly:100:LYS:CG	1.94	0.65
2:kd:281:GLN:N	2:kd:281:GLN:OE1	2.30	0.65
2:ke:167:GLY:N	2:ke:262:ASN:OD1	2.30	0.65
1:kz:63:VAL:HG13	1:kz:74:ASP:CB	2.26	0.65
2:kV:144:TYR:OH	2:kV:253:GLY:N	2.29	0.65
1:kY:99:LEU:HA	1:oy:102:GLU:CD	2.21	0.65
1:kY:102:GLU:CD	1:lA:99:LEU:HA	2.21	0.65
2:ld:219:VAL:O	2:ld:246:MET:HE3	1.96	0.65
2:le:238:ASN:OD1	2:le:239:PHE:N	2.30	0.65
2:lh:298:LEU:HD12	2:lh:298:LEU:O	1.96	0.65
1:lp:63:VAL:HG13	1:lp:74:ASP:CB	2.26	0.65
2:lG:238:ASN:OD1	2:lG:239:PHE:N	2.30	0.65
2:lZ:239:PHE:CE1	2:lZ:294:LEU:HD22	2.31	0.65
1:mC:102:GLU:OE2	1:oC:99:LEU:CD2	2.43	0.65
2:mN:86:VAL:O	2:mN:202:GLN:N	2.27	0.65
2:mP:239:PHE:CE1	2:mP:294:LEU:HD22	2.31	0.65
2:mY:184:TYR:OH	2:mY:204:PHE:CD1	2.49	0.65
1:nU:102:GLU:OE1	1:oa:99:LEU:HG	1.95	0.65
2:oc:184:TYR:OH	2:oc:204:PHE:CD1	2.49	0.65
1:oo:100:LYS:HZ1	1:qc:100:LYS:CD	2.10	0.65
2:oQ:184:TYR:HH	2:oQ:204:PHE:HD1	1.42	0.65
2:oE:238:ASN:OD1	2:oE:239:PHE:N	2.30	0.65
2:oI:87:LYS:NZ	2:oI:201:GLU:OE1	2.27	0.65
2:oJ:144:TYR:OH	2:oJ:253:GLY:N	2.29	0.65
2:oJ:238:ASN:OD1	2:oJ:239:PHE:N	2.29	0.65
2:oS:238:ASN:OD1	2:oS:239:PHE:N	2.30	0.65
2:pg:238:ASN:OD1	2:pg:239:PHE:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pH:98:VAL:HG11	2:pM:50:LEU:HD23	1.77	0.65
4:qm:64:LYS:NZ	4:qn:53:GLN:HG2	2.11	0.65
5:qH:53:GLU:OE1	5:qJ:35:HIS:NE2	2.29	0.65
6:qM:83:LEU:HD11	6:qM:89:VAL:CG1	2.26	0.65
2:aj:281:GLN:N	2:aj:281:GLN:OE1	2.30	0.65
1:ap:99:LEU:HA	1:hN:102:GLU:CD	2.21	0.65
2:az:238:ASN:OD1	2:az:239:PHE:N	2.30	0.65
2:az:239:PHE:CE1	2:az:294:LEU:HD22	2.31	0.65
2:az:294:LEU:CD2	2:az:295:VAL:HG23	2.26	0.65
1:aD:99:LEU:CA	2:ht:197:LYS:NZ	2.59	0.65
2:aK:281:GLN:N	2:aK:281:GLN:OE1	2.30	0.65
2:aL:86:VAL:HG23	2:aL:202:GLN:HB2	1.76	0.65
2:aN:144:TYR:OH	2:aN:253:GLY:N	2.29	0.65
1:aT:63:VAL:HG13	1:aT:74:ASP:CB	2.26	0.65
2:aX:197:LYS:HZ2	1:ci:99:LEU:C	2.03	0.65
2:bb:238:ASN:OD1	2:bb:239:PHE:N	2.29	0.65
1:be:99:LEU:CD1	1:iR:60:ARG:NH1	2.26	0.65
2:bk:238:ASN:OD1	2:bk:239:PHE:N	2.30	0.65
1:bl:87:ASP:CB	2:hH:5:THR:HG22	2.26	0.65
1:cf:83:GLY:HA3	2:dr:8:LEU:HD13	1.79	0.65
2:cs:294:LEU:CD2	2:cs:295:VAL:HG23	2.26	0.65
1:cz:99:LEU:CD2	1:pm:102:GLU:OE2	2.43	0.65
2:cB:184:TYR:OH	2:cB:204:PHE:CD1	2.49	0.65
1:cN:88:GLU:N	1:cN:88:GLU:OE1	2.29	0.65
2:cQ:130:CYS:SG	2:cQ:131:TYR:N	2.69	0.65
1:cV:102:GLU:OE2	1:eV:99:LEU:HG	1.74	0.65
2:ej:281:GLN:OE1	2:ej:281:GLN:N	2.30	0.65
1:eq:99:LEU:CA	2:ph:197:LYS:HZ1	2.06	0.65
2:eA:144:TYR:OH	2:eA:253:GLY:N	2.29	0.65
1:eH:99:LEU:HG	1:gv:102:GLU:OE1	1.95	0.65
1:fg:99:LEU:CA	2:ii:197:LYS:NZ	2.59	0.65
1:ft:99:LEU:HA	1:nW:102:GLU:CD	2.21	0.65
1:fv:87:ASP:CB	2:no:5:THR:HG22	2.26	0.65
2:fy:98:VAL:HG11	2:fD:50:LEU:HD23	1.78	0.65
2:fz:238:ASN:OD1	2:fz:239:PHE:N	2.30	0.65
2:fB:281:GLN:N	2:fB:281:GLN:OE1	2.30	0.65
2:fO:191:SER:OG	2:hh:186:GLU:O	2.08	0.65
2:fQ:86:VAL:HG23	2:fQ:202:GLN:HB2	1.76	0.65
1:gh:100:LYS:CG	1:if:100:LYS:HZ1	2.06	0.65
1:gn:99:LEU:CD2	1:hZ:102:GLU:OE2	2.43	0.65
2:gu:239:PHE:CE1	2:gu:294:LEU:HD22	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gD:184:TYR:OH	2:gD:204:PHE:CD1	2.49	0.65
2:gT:5:THR:HG22	1:lQ:87:ASP:CB	2.26	0.65
1:hc:99:LEU:HA	2:II:197:LYS:CD	2.13	0.65
2:hf:184:TYR:OH	2:hf:204:PHE:CD1	2.49	0.65
2:hh:5:THR:HG22	1:ky:87:ASP:CB	2.26	0.65
2:hV:281:GLN:OE1	2:hV:281:GLN:N	2.30	0.65
2:im:238:ASN:OD1	2:im:239:PHE:N	2.29	0.65
1:is:99:LEU:CA	2:jP:197:LYS:CD	2.69	0.65
2:iu:67:ASP:OD1	1:iB:95:SER:OG	2.13	0.65
2:iA:238:ASN:OD1	2:iA:239:PHE:N	2.29	0.65
2:jk:98:VAL:HG11	2:jp:50:LEU:HD23	1.78	0.65
2:jy:67:ASP:OD1	1:jF:95:SER:OG	2.13	0.65
2:jO:197:LYS:NZ	1:oN:99:LEU:CA	2.59	0.65
2:kc:130:CYS:SG	2:kc:131:TYR:N	2.69	0.65
2:kC:75:ILE:HG21	2:kC:177:ARG:HH12	1.60	0.65
2:lg:60:ILE:HG13	1:oy:105:THR:HG21	1.79	0.65
2:ls:238:ASN:OD1	2:ls:239:PHE:N	2.30	0.65
2:II:281:GLN:N	2:II:281:GLN:OE1	2.30	0.65
2:mh:219:VAL:O	2:mh:246:MET:HE3	1.96	0.65
2:nl:98:VAL:HG11	2:nq:50:LEU:HD23	1.78	0.65
2:nr:239:PHE:CE1	2:nr:294:LEU:HD22	2.31	0.65
1:nL:63:VAL:HG13	1:nL:74:ASP:CB	2.26	0.65
2:nR:167:GLY:N	2:nR:262:ASN:OD1	2.30	0.65
1:nZ:63:VAL:HG13	1:nZ:74:ASP:CB	2.26	0.65
2:of:167:GLY:N	2:of:262:ASN:OD1	2.30	0.65
1:oo:99:LEU:CD2	1:qc:102:GLU:OE2	2.43	0.65
2:oq:184:TYR:OH	2:oq:204:PHE:CD1	2.49	0.65
2:pJ:130:CYS:SG	2:pJ:131:TYR:N	2.69	0.65
2:pX:130:CYS:SG	2:pX:131:TYR:N	2.69	0.65
2:pZ:167:GLY:N	2:pZ:262:ASN:OD1	2.30	0.65
2:qb:239:PHE:CE1	2:qb:294:LEU:HD22	2.31	0.65
3:qf:25:LEU:HD11	6:qC:82:VAL:H	1.61	0.65
3:qf:67:ARG:H	4:ql:194:LEU:HD12	0.81	0.65
3:qf:68:ALA:HA	4:ql:8:TYR:CE2	2.30	0.65
3:qg:133:ALA:HB3	3:qg:138:TYR:HD2	1.59	0.65
4:qk:19:VAL:O	4:qk:22:VAL:HG12	1.95	0.65
5:qp:232:LEU:CD2	5:qL:229:ILE:CD1	2.74	0.65
6:qq:8:ASP:HA	6:qs:39:ARG:NH1	2.12	0.65
5:qx:252:LEU:HD22	6:qA:126:GLN:HG2	1.72	0.65
5:qF:53:GLU:OE1	5:qH:35:HIS:NE2	2.29	0.65
2:ai:130:CYS:SG	2:ai:131:TYR:N	2.69	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ak:298:LEU:HD12	2:ak:298:LEU:O	1.96	0.65
2:az:103:MET:SD	5:qJ:30:LYS:O	2.55	0.65
1:aO:83:GLY:HA3	2:kb:8:LEU:HD13	1.79	0.65
2:aW:184:TYR:OH	2:aW:204:PHE:CD1	2.49	0.65
2:bb:197:LYS:HA	2:bk:62:GLN:CD	2.22	0.65
1:bi:88:GLU:OE1	1:bi:88:GLU:N	2.29	0.65
2:bZ:8:LEU:HD13	1:iP:83:GLY:HA3	1.79	0.65
2:ce:239:PHE:CE1	2:ce:294:LEU:HD22	2.31	0.65
1:cK:103:ARG:CG	2:eY:61:GLY:O	2.42	0.65
2:cS:167:GLY:N	2:cS:262:ASN:OD1	2.30	0.65
2:dc:219:VAL:O	2:dc:246:MET:HE3	1.96	0.65
2:dG:298:LEU:O	2:dG:298:LEU:HD12	1.96	0.65
2:dF:75:ILE:HG21	2:dF:177:ARG:HH12	1.60	0.65
1:dR:99:LEU:HG	1:oY:102:GLU:OE1	1.95	0.65
2:dT:8:LEU:HD13	1:nU:83:GLY:HA3	1.79	0.65
2:dT:238:ASN:OD1	2:dT:239:PHE:N	2.30	0.65
1:ep:99:LEU:CD1	1:nI:60:ARG:NH1	2.25	0.65
1:eE:99:LEU:CA	2:fm:197:LYS:NZ	2.59	0.65
2:fo:167:GLY:N	2:fo:262:ASN:OD1	2.30	0.65
1:fr:102:GLU:OE1	1:ny:99:LEU:HG	1.95	0.65
1:fx:88:GLU:OE1	1:fx:88:GLU:N	2.29	0.65
2:fz:62:GLN:CD	2:nr:197:LYS:HA	2.22	0.65
2:fz:184:TYR:OH	2:fz:204:PHE:CD1	2.49	0.65
1:fH:99:LEU:HA	1:gZ:102:GLU:CD	2.21	0.65
1:fW:105:THR:HG21	2:ii:60:ILE:HG22	1.57	0.65
2:ge:167:GLY:N	2:ge:262:ASN:OD1	2.30	0.65
1:gk:99:LEU:CA	2:gS:197:LYS:NZ	2.59	0.65
2:gp:238:ASN:OD1	2:gp:239:PHE:N	2.30	0.65
2:gs:86:VAL:O	2:gs:202:GLN:N	2.27	0.65
2:gG:167:GLY:N	2:gG:262:ASN:OD1	2.30	0.65
2:gG:298:LEU:HD12	2:gG:298:LEU:O	1.96	0.65
2:hs:219:VAL:O	2:hs:246:MET:HE3	1.96	0.65
1:hA:102:GLU:CD	1:lO:99:LEU:HA	2.21	0.65
2:hW:86:VAL:O	2:hW:202:GLN:N	2.27	0.65
2:ik:167:GLY:N	2:ik:262:ASN:OD1	2.30	0.65
2:iu:98:VAL:HG11	2:iz:50:LEU:HD23	1.78	0.65
2:iA:144:TYR:OH	2:iA:253:GLY:N	2.29	0.65
1:iD:102:GLU:CD	1:po:99:LEU:HA	2.21	0.65
2:jO:60:ILE:HG23	1:pD:105:THR:HG21	1.75	0.65
2:kb:62:GLN:CD	2:lx:197:LYS:HA	2.22	0.65
2:kr:167:GLY:N	2:kr:262:ASN:OD1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kt:239:PHE:CE1	2:kt:294:LEU:HD22	2.31	0.65
2:kV:294:LEU:CD2	2:kV:295:VAL:HG23	2.26	0.65
1:lk:83:GLY:HA3	2:mK:8:LEU:HD13	1.79	0.65
2:lt:130:CYS:SG	2:lt:131:TYR:N	2.69	0.65
2:lG:62:GLN:CD	2:nd:197:LYS:HA	2.21	0.65
2:IL:239:PHE:CE1	2:IL:294:LEU:HD22	2.31	0.65
2:mn:239:PHE:CE1	2:mn:294:LEU:HD22	2.31	0.65
2:mz:167:GLY:N	2:mz:262:ASN:OD1	2.30	0.65
2:nd:238:ASN:OD1	2:nd:239:PHE:N	2.29	0.65
1:nk:88:GLU:N	1:nk:88:GLU:OE1	2.29	0.65
2:nl:219:VAL:O	2:nl:246:MET:HE3	1.96	0.65
2:oe:281:GLN:OE1	2:oe:281:GLN:N	2.30	0.65
2:op:67:ASP:OD1	1:ow:95:SER:OG	2.13	0.65
1:oC:88:GLU:N	1:oC:88:GLU:OE1	2.29	0.65
2:oR:67:ASP:OD1	1:oY:95:SER:OG	2.13	0.65
2:oX:294:LEU:CD2	2:oX:295:VAL:HG23	2.26	0.65
1:pF:63:VAL:HG13	1:pF:74:ASP:CB	2.26	0.65
2:pN:144:TYR:OH	2:pN:253:GLY:N	2.29	0.65
2:pW:184:TYR:OH	2:pW:204:PHE:CD1	2.49	0.65
3:qg:67:ARG:CB	4:qk:194:LEU:CD1	2.74	0.65
3:qh:117:ASP:O	4:qk:6:TYR:CZ	2.50	0.65
4:qj:64:LYS:NZ	4:qk:53:GLN:HG2	2.11	0.65
5:qr:229:ILE:CD1	5:qt:232:LEU:CD2	2.74	0.65
5:qB:229:ILE:CD1	5:qD:232:LEU:CD2	2.74	0.65
1:aq:60:ARG:CD	1:km:99:LEU:HD21	2.18	0.65
1:at:88:GLU:OE1	1:at:88:GLU:N	2.29	0.65
1:at:99:LEU:CD2	1:bR:102:GLU:OE2	2.43	0.65
1:at:99:LEU:HG	1:bR:102:GLU:OE1	1.95	0.65
2:az:103:MET:CE	5:qJ:30:LYS:O	2.43	0.65
2:aI:58:GLU:OE1	2:kb:78:LYS:NZ	2.27	0.65
2:aW:58:GLU:OE1	2:iJ:78:LYS:NZ	2.27	0.65
2:aZ:167:GLY:N	2:aZ:262:ASN:OD1	2.30	0.65
2:bp:239:PHE:CE1	2:bp:294:LEU:HD22	2.31	0.65
1:bv:63:VAL:HG13	1:bv:74:ASP:CB	2.26	0.65
2:bY:98:VAL:HG11	2:cd:50:LEU:HD23	1.77	0.65
2:ce:197:LYS:O	2:iJ:62:GLN:OE1	2.15	0.65
2:ce:294:LEU:CD2	2:ce:295:VAL:HG23	2.26	0.65
2:cp:197:LYS:CD	1:pr:99:LEU:CA	2.69	0.65
1:ct:83:GLY:HA3	2:iv:8:LEU:HD13	1.79	0.65
2:cA:98:VAL:HG11	2:cF:50:LEU:HD23	1.78	0.65
2:cB:238:ASN:OD1	2:cB:239:PHE:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cC:197:LYS:HZ3	1:dO:99:LEU:CA	2.06	0.65
2:cO:98:VAL:HG11	2:cT:50:LEU:HD23	1.78	0.65
2:cR:60:ILE:HG13	1:po:105:THR:HG21	1.79	0.65
2:de:197:LYS:NZ	1:gy:99:LEU:CA	2.59	0.65
2:df:60:ILE:HG12	1:gx:105:THR:CG2	2.23	0.65
2:dr:184:TYR:OH	2:dr:204:PHE:CD1	2.49	0.65
2:dw:294:LEU:CD2	2:dw:295:VAL:HG23	2.26	0.65
1:dA:105:THR:CG2	2:ph:60:ILE:CG2	2.62	0.65
1:dZ:100:LYS:HG2	1:nM:100:LYS:HZ1	1.62	0.65
1:eb:99:LEU:HA	1:ft:102:GLU:CD	2.21	0.65
1:eH:99:LEU:CD2	1:gv:102:GLU:OE2	2.43	0.65
1:fr:83:GLY:HA3	2:gD:8:LEU:HD13	1.79	0.65
1:fL:88:GLU:OE1	1:fL:88:GLU:N	2.29	0.65
2:fS:197:LYS:HA	2:gb:62:GLN:CD	2.22	0.65
1:fT:83:GLY:HA3	2:lU:8:LEU:HD13	1.79	0.65
1:gA:63:VAL:HG13	1:gA:74:ASP:CB	2.26	0.65
2:hg:197:LYS:HZ2	1:mr:99:LEU:C	2.04	0.65
1:hr:99:LEU:HG	1:ku:102:GLU:OE1	1.95	0.65
1:hB:99:LEU:CA	2:IV:197:LYS:NZ	2.59	0.65
2:hK:183:ILE:CA	5:qt:177:SER:C	2.70	0.65
2:hK:238:ASN:OD1	2:hK:239:PHE:N	2.30	0.65
1:ir:87:ASP:CB	2:jP:5:THR:HG22	2.26	0.65
1:iB:83:GLY:HA3	2:jN:8:LEU:HD13	1.79	0.65
2:iK:130:CYS:SG	2:iK:131:TYR:N	2.69	0.65
2:iO:239:PHE:CE1	2:iO:294:LEU:HD22	2.31	0.65
2:iZ:281:GLN:N	2:iZ:281:GLN:OE1	2.30	0.65
2:ja:298:LEU:HD12	2:ja:298:LEU:O	1.96	0.65
2:jl:238:ASN:OD1	2:jl:239:PHE:N	2.30	0.65
2:jQ:238:ASN:OD1	2:jQ:239:PHE:N	2.29	0.65
1:jH:102:GLU:CD	1:ok:99:LEU:HA	2.21	0.65
2:jM:67:ASP:OD1	1:jT:95:SER:OG	2.13	0.65
2:jN:62:GLN:CD	2:pN:197:LYS:HA	2.22	0.65
2:jN:238:ASN:OD1	2:jN:239:PHE:N	2.30	0.65
2:kg:238:ASN:OD1	2:kg:239:PHE:N	2.29	0.65
1:kw:99:LEU:HA	1:lO:102:GLU:CD	2.21	0.65
1:kO:88:GLU:OE1	1:kO:88:GLU:N	2.29	0.65
1:la:87:ASP:CB	2:mM:5:THR:HG22	2.26	0.65
1:lc:99:LEU:HG	1:mQ:102:GLU:OE1	1.95	0.65
1:lq:88:GLU:N	1:lq:88:GLU:OE1	2.29	0.65
2:lx:238:ASN:OD1	2:lx:239:PHE:N	2.29	0.65
2:lx:294:LEU:CD2	2:lx:295:VAL:HG23	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IM:83:GLY:HA3	2:mY:8:LEU:HD13	1.79	0.65
2:IU:238:ASN:OD1	2:IU:239:PHE:N	2.30	0.65
2:nA:75:ILE:HG21	2:nA:177:ARG:HH12	1.60	0.65
2:nA:238:ASN:OD1	2:nA:239:PHE:N	2.30	0.65
1:oa:88:GLU:N	1:oa:88:GLU:OE1	2.29	0.65
1:oB:63:VAL:HG13	1:oB:74:ASP:CB	2.26	0.65
2:px:167:GLY:N	2:px:262:ASN:OD1	2.30	0.65
2:pZ:86:VAL:O	2:pZ:202:GLN:N	2.27	0.65
3:qf:68:ALA:HB2	4:qk:222:GLY:O	1.92	0.65
6:qs:8:ASP:HA	6:qu:39:ARG:NH1	2.12	0.65
5:qt:53:GLU:OE1	5:qv:35:HIS:NE2	2.29	0.65
5:qx:255:VAL:HG12	5:qz:263:ALA:CB	2.27	0.65
5:qz:255:VAL:HG12	5:qB:263:ALA:CB	2.27	0.65
6:qA:8:ASP:HA	6:qC:39:ARG:NH1	2.12	0.65
2:ag:219:VAL:O	2:ag:246:MET:HE3	1.96	0.65
2:ah:62:GLN:CD	2:oh:197:LYS:HA	2.22	0.65
1:an:100:LYS:CD	1:oQ:100:LYS:HZ1	2.10	0.65
2:aN:238:ASN:OD1	2:aN:239:PHE:N	2.30	0.65
2:aW:62:GLN:CD	2:iO:197:LYS:HA	2.22	0.65
1:bf:99:LEU:CA	2:kp:197:LYS:NZ	2.59	0.65
2:bD:238:ASN:OD1	2:bD:239:PHE:N	2.30	0.65
1:bJ:63:VAL:HG13	1:bJ:74:ASP:CB	2.26	0.65
2:cb:281:GLN:N	2:cb:281:GLN:OE1	2.30	0.65
2:cn:62:GLN:CD	2:iA:197:LYS:HA	2.22	0.65
2:cn:184:TYR:OH	2:cn:204:PHE:CD1	2.49	0.65
1:cz:99:LEU:HG	1:pm:102:GLU:OE1	1.95	0.65
2:cP:8:LEU:HD13	1:fd:83:GLY:HA3	1.79	0.65
2:dF:62:GLN:OE1	2:fc:197:LYS:O	2.15	0.65
2:dF:238:ASN:OD1	2:dF:239:PHE:N	2.30	0.65
2:dH:5:THR:HG22	1:pc:87:ASP:CB	2.26	0.65
2:dK:197:LYS:HA	2:pg:62:GLN:CD	2.22	0.65
1:dL:83:GLY:HA3	2:eX:8:LEU:HD13	1.79	0.65
2:dT:62:GLN:OE1	2:oX:197:LYS:O	2.15	0.65
1:eb:102:GLU:CD	1:nW:99:LEU:HA	2.21	0.65
1:en:83:GLY:HA3	2:nA:8:LEU:HD13	1.79	0.65
2:eJ:238:ASN:OD1	2:eJ:239:PHE:N	2.30	0.65
2:eZ:281:GLN:N	2:eZ:281:GLN:OE1	2.30	0.65
2:fc:238:ASN:OD1	2:fc:239:PHE:N	2.29	0.65
1:fg:105:THR:CG2	2:nB:60:ILE:CG2	2.62	0.65
2:fl:62:GLN:CD	2:gI:197:LYS:HA	2.22	0.65
2:fn:281:GLN:N	2:fn:281:GLN:OE1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fw:63:VAL:HG13	1:fw:74:ASP:CB	2.26	0.65
1:fx:99:LEU:HG	1:ns:102:GLU:OE1	1.95	0.65
2:fz:198:GLU:CD	1:mg:101:VAL:CG1	2.58	0.65
2:fp:60:ILE:HG13	1:gZ:105:THR:HG21	1.79	0.65
2:fQ:167:GLY:N	2:fQ:262:ASN:OD1	2.30	0.65
2:gd:60:ILE:HG13	1:mc:105:THR:HG21	1.79	0.65
2:gg:197:LYS:HA	2:ih:62:GLN:CD	2.22	0.65
2:go:219:VAL:O	2:go:246:MET:HE3	1.96	0.65
2:gW:294:LEU:CD2	2:gW:295:VAL:HG23	2.26	0.65
2:hH:281:GLN:N	2:hH:281:GLN:OE1	2.30	0.65
2:iv:62:GLN:CD	2:jS:197:LYS:HA	2.22	0.65
2:ix:281:GLN:N	2:ix:281:GLN:OE1	2.30	0.65
1:iD:105:THR:CG2	2:pw:60:ILE:HG12	2.23	0.65
2:iJ:238:ASN:OD1	2:iJ:239:PHE:N	2.30	0.65
2:iO:238:ASN:OD1	2:iO:239:PHE:N	2.29	0.65
1:iV:88:GLU:OE1	1:iV:88:GLU:N	2.29	0.65
1:ji:63:VAL:HG13	1:ji:74:ASP:CB	2.26	0.65
2:jz:184:TYR:OH	2:jz:204:PHE:CD1	2.49	0.65
2:jB:60:ILE:HG13	1:mS:105:THR:HG21	1.79	0.65
2:jE:197:LYS:O	2:pW:62:GLN:OE1	2.15	0.65
1:jF:102:GLU:OE2	1:pU:99:LEU:CD2	2.43	0.65
2:jN:184:TYR:OH	2:jN:204:PHE:CD1	2.49	0.65
2:jS:294:LEU:CD2	2:jS:295:VAL:HG23	2.26	0.65
1:jT:83:GLY:HA3	2:pI:8:LEU:HD13	1.79	0.65
1:jW:99:LEU:CA	2:mZ:197:LYS:NZ	2.59	0.65
2:kQ:238:ASN:OD1	2:kQ:239:PHE:N	2.30	0.65
2:lu:281:GLN:N	2:lu:281:GLN:OE1	2.30	0.65
1:lE:88:GLU:N	1:lE:88:GLU:OE1	2.29	0.65
2:mi:184:TYR:OH	2:mi:204:PHE:CD1	2.49	0.65
2:mk:60:ILE:HG13	1:nu:105:THR:HG21	1.79	0.65
2:mw:238:ASN:OD1	2:mw:239:PHE:N	2.30	0.65
1:nj:63:VAL:HG13	1:nj:74:ASP:CB	2.26	0.65
2:nn:61:GLY:O	1:oz:103:ARG:CG	2.42	0.65
2:nz:98:VAL:HG11	2:nE:50:LEU:HD23	1.77	0.65
2:nA:184:TYR:HH	2:nA:204:PHE:HD1	1.40	0.65
2:nP:130:CYS:SG	2:nP:131:TYR:N	2.69	0.65
2:oc:238:ASN:OD1	2:oc:239:PHE:N	2.30	0.65
2:of:86:VAL:O	2:of:202:GLN:N	2.27	0.65
2:oq:238:ASN:OD1	2:oq:239:PHE:N	2.30	0.65
2:oD:67:ASP:OD1	1:oK:95:SER:OG	2.13	0.65
2:oH:167:GLY:N	2:oH:262:ASN:OD1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pz:197:LYS:HA	2:pI:62:GLN:CD	2.21	0.65
2:pI:238:ASN:OD1	2:pI:239:PHE:N	2.30	0.65
5:qv:53:GLU:OE1	5:qx:35:HIS:NE2	2.29	0.65
1:aC:102:GLU:CD	1:hn:99:LEU:HA	2.21	0.65
2:aY:281:GLN:N	2:aY:281:GLN:OE1	2.30	0.65
2:aZ:298:LEU:O	2:aZ:298:LEU:HD12	1.96	0.65
2:cp:60:ILE:HG13	1:jf:105:THR:HG21	1.79	0.65
1:ct:102:GLU:OE2	1:ps:99:LEU:CD2	2.43	0.65
1:cz:88:GLU:N	1:cz:88:GLU:OE1	2.29	0.65
2:cE:167:GLY:N	2:cE:262:ASN:OD1	2.30	0.65
1:cJ:99:LEU:HA	1:po:102:GLU:CD	2.21	0.65
2:dd:75:ILE:HG21	2:dd:177:ARG:HH12	1.60	0.65
2:di:294:LEU:CD2	2:di:295:VAL:HG23	2.26	0.65
2:du:167:GLY:N	2:du:262:ASN:OD1	2.30	0.65
2:dE:98:VAL:HG11	2:dJ:50:LEU:HD23	1.78	0.65
2:dG:68:MET:CE	2:dJ:84:VAL:HG21	2.27	0.65
2:dH:281:GLN:OE1	2:dH:281:GLN:N	2.30	0.65
1:dL:100:LYS:HD2	2:pf:197:LYS:HZ2	1.61	0.65
2:dY:197:LYS:HA	2:nO:62:GLN:CD	2.22	0.65
2:ei:60:ILE:CG2	1:nv:105:THR:CG2	2.62	0.65
1:en:100:LYS:CG	1:et:100:LYS:HZ3	1.92	0.65
2:ew:130:CYS:SG	2:ew:131:TYR:N	2.69	0.65
2:ex:281:GLN:N	2:ex:281:GLN:OE1	2.30	0.65
2:eL:60:ILE:HG13	1:ib:105:THR:HG21	1.79	0.65
2:fa:167:GLY:N	2:fa:262:ASN:OD1	2.30	0.65
1:fr:102:GLU:OE2	1:ny:99:LEU:CD2	2.43	0.65
2:fN:8:LEU:HD13	1:gh:83:GLY:HA3	1.79	0.65
1:gj:102:GLU:CD	1:gL:99:LEU:HA	2.21	0.65
2:gp:184:TYR:OH	2:gp:204:PHE:CD1	2.49	0.65
2:gI:239:PHE:CE1	2:gI:294:LEU:HD22	2.31	0.65
2:hi:167:GLY:N	2:hi:262:ASN:OD1	2.30	0.65
2:hv:86:VAL:O	2:hv:202:GLN:N	2.27	0.65
2:hF:32:LEU:HD11	5:qv:178:PRO:C	2.20	0.65
1:iq:99:LEU:CA	2:lt:197:LYS:NZ	2.59	0.65
2:iy:167:GLY:N	2:iy:262:ASN:OD1	2.30	0.65
2:iJ:184:TYR:OH	2:iJ:204:PHE:CD1	2.49	0.65
2:iX:238:ASN:OD1	2:iX:239:PHE:N	2.30	0.65
2:iY:130:CYS:SG	2:iY:131:TYR:N	2.69	0.65
2:jq:197:LYS:O	2:ls:62:GLN:OE1	2.15	0.65
1:jt:102:GLU:CD	1:jV:99:LEU:HA	2.21	0.65
2:jQ:167:GLY:N	2:jQ:262:ASN:OD1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jR:87:LYS:NZ	2:jR:201:GLU:OE1	2.27	0.65
1:jV:102:GLU:CD	1:mS:99:LEU:HA	2.21	0.65
2:kc:61:GLY:O	1:ln:103:ARG:CG	2.42	0.65
1:kh:83:GLY:HA3	2:ls:8:LEU:HD13	1.79	0.65
1:kn:88:GLU:OE1	1:kn:88:GLU:N	2.29	0.65
2:le:62:GLN:CD	2:mP:197:LYS:HA	2.21	0.65
2:lh:167:GLY:N	2:lh:262:ASN:OD1	2.30	0.65
1:lA:102:GLU:CD	1:oy:99:LEU:HA	2.21	0.65
2:lH:130:CYS:SG	2:lH:131:TYR:N	2.69	0.65
2:lV:68:MET:CE	2:lY:84:VAL:HG21	2.28	0.65
1:mf:63:VAL:HG13	1:mf:74:ASP:CB	2.26	0.65
2:mn:294:LEU:CD2	2:mn:295:VAL:HG23	2.26	0.65
2:mv:219:VAL:O	2:mv:246:MET:HE3	1.96	0.65
2:mJ:67:ASP:OD1	1:mQ:95:SER:OG	2.13	0.65
2:na:281:GLN:N	2:na:281:GLN:OE1	2.30	0.65
1:nk:99:LEU:CD2	1:oK:102:GLU:OE2	2.43	0.65
2:nr:238:ASN:OD1	2:nr:239:PHE:N	2.30	0.65
2:nQ:281:GLN:N	2:nQ:281:GLN:OE1	2.30	0.65
1:oj:102:GLU:OE1	2:or:197:LYS:NZ	2.29	0.65
2:ou:171:TYR:OH	2:ou:175:THR:OG1	2.12	0.65
1:ps:88:GLU:N	1:ps:88:GLU:OE1	2.29	0.65
2:pz:294:LEU:CD2	2:pz:295:VAL:HG23	2.26	0.65
2:pH:219:VAL:O	2:pH:246:MET:HE3	1.96	0.65
2:pV:67:ASP:OD1	1:qc:95:SER:OG	2.13	0.65
3:qf:66:GLN:O	4:ql:10:GLN:NE2	2.30	0.65
5:qB:255:VAL:HG12	5:qD:263:ALA:CB	2.27	0.65
2:ah:184:TYR:OH	2:ah:204:PHE:CD1	2.49	0.64
2:al:87:LYS:NZ	2:al:201:GLU:OE1	2.27	0.64
2:aI:8:LEU:HD13	1:jd:83:GLY:HA3	1.79	0.64
2:aI:238:ASN:OD1	2:aI:239:PHE:N	2.30	0.64
2:bb:197:LYS:O	2:bk:62:GLN:OE1	2.15	0.64
2:bn:167:GLY:N	2:bn:262:ASN:OD1	2.30	0.64
1:bw:88:GLU:N	1:bw:88:GLU:OE1	2.29	0.64
1:bG:102:GLU:CD	1:gj:99:LEU:HA	2.21	0.64
2:bL:104:GLN:NE2	5:qr:166:GLU:OE2	2.30	0.64
2:ce:238:ASN:OD1	2:ce:239:PHE:N	2.29	0.64
1:cf:102:GLU:OE1	1:iH:99:LEU:HG	1.95	0.64
2:co:61:GLY:O	1:iq:103:ARG:CG	2.42	0.64
2:cs:238:ASN:OD1	2:cs:239:PHE:N	2.30	0.64
1:cy:100:LYS:HE3	1:nH:100:LYS:CG	2.27	0.64
2:cS:86:VAL:O	2:cS:202:GLN:N	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cX:99:LEU:HA	1:gx:102:GLU:CD	2.21	0.64
1:cZ:87:ASP:CB	2:eL:5:THR:HG22	2.26	0.64
2:de:68:MET:CE	2:dh:84:VAL:HG21	2.28	0.64
2:dt:281:GLN:OE1	2:dt:281:GLN:N	2.30	0.64
1:dz:105:THR:HG21	2:gF:60:ILE:HG13	1.79	0.64
2:dF:8:LEU:HD13	1:pm:83:GLY:HA3	1.79	0.64
2:dF:58:GLU:OE1	2:eX:78:LYS:NZ	2.27	0.64
2:dI:167:GLY:N	2:dI:262:ASN:OD1	2.30	0.64
1:dR:99:LEU:CD2	1:oY:102:GLU:OE2	2.43	0.64
2:dY:197:LYS:O	2:nO:62:GLN:OE1	2.15	0.64
1:es:100:LYS:HE3	1:nV:100:LYS:CG	2.27	0.64
1:eC:100:LYS:CG	1:gO:100:LYS:HE3	2.28	0.64
2:eJ:75:ILE:HG21	2:eJ:177:ARG:HH12	1.60	0.64
1:eP:83:GLY:HA3	2:gp:8:LEU:HD13	1.79	0.64
2:fl:238:ASN:OD1	2:fl:239:PHE:N	2.30	0.64
2:fm:60:ILE:CG2	1:gy:105:THR:CG2	2.62	0.64
2:fQ:298:LEU:HD12	2:fQ:298:LEU:O	1.96	0.64
2:gc:68:MET:CE	2:gf:84:VAL:HG21	2.28	0.64
1:gY:100:LYS:CG	1:oB:100:LYS:HE3	2.27	0.64
1:hc:100:LYS:HE3	1:ox:100:LYS:CG	2.27	0.64
1:hz:100:LYS:CG	1:kN:100:LYS:HE3	2.27	0.64
2:hW:167:GLY:N	2:hW:262:ASN:OD1	2.30	0.64
2:ik:298:LEU:O	2:ik:298:LEU:HD12	1.96	0.64
1:it:88:GLU:N	1:it:88:GLU:OE1	2.29	0.64
2:ix:60:ILE:HG13	1:pQ:105:THR:HG21	1.79	0.64
2:iX:184:TYR:OH	2:iX:204:PHE:CD1	2.49	0.64
2:jz:238:ASN:OD1	2:jz:239:PHE:N	2.30	0.64
1:jL:88:GLU:OE1	1:jL:88:GLU:N	2.29	0.64
2:jS:238:ASN:OD1	2:jS:239:PHE:N	2.29	0.64
2:ka:98:VAL:HG11	2:kf:50:LEU:HD23	1.78	0.64
2:kg:294:LEU:CD2	2:kg:295:VAL:HG23	2.26	0.64
2:kC:238:ASN:OD1	2:kC:239:PHE:N	2.30	0.64
2:kT:167:GLY:N	2:kT:262:ASN:OD1	2.30	0.64
1:kX:100:LYS:CG	1:nj:100:LYS:HE3	2.27	0.64
1:kY:105:THR:HG21	2:II:60:ILE:HG13	1.79	0.64
2:ld:98:VAL:HG11	2:li:50:LEU:HD23	1.78	0.64
2:ls:75:ILE:HG21	2:ls:177:ARG:HH12	1.60	0.64
2:ml:86:VAL:O	2:ml:202:GLN:N	2.27	0.64
1:mI:99:LEU:HG	1:ow:102:GLU:OE1	1.95	0.64
2:nb:167:GLY:N	2:nb:262:ASN:OD1	2.30	0.64
2:nc:87:LYS:NZ	2:nc:201:GLU:OE1	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nd:239:PHE:CE1	2:nd:294:LEU:HD22	2.31	0.64
2:nm:62:GLN:CD	2:oJ:197:LYS:HA	2.21	0.64
2:nq:171:TYR:OH	2:nq:175:THR:OG1	2.12	0.64
2:nA:184:TYR:OH	2:nA:204:PHE:CD1	2.49	0.64
2:nD:167:GLY:N	2:nD:262:ASN:OD1	2.30	0.64
1:nM:88:GLU:OE1	1:nM:88:GLU:N	2.29	0.64
2:nO:8:LEU:HD13	1:oi:83:GLY:HA3	1.79	0.64
2:nO:184:TYR:OH	2:nO:204:PHE:CD1	2.49	0.64
2:nP:197:LYS:NZ	1:pb:99:LEU:CA	2.59	0.64
2:ov:238:ASN:OD1	2:ov:239:PHE:N	2.29	0.64
2:oW:87:LYS:NZ	2:oW:201:GLU:OE1	2.27	0.64
2:pi:281:GLN:N	2:pi:281:GLN:OE1	2.30	0.64
1:pG:88:GLU:OE1	1:pG:88:GLU:N	2.29	0.64
2:pN:239:PHE:CE1	2:pN:294:LEU:HD22	2.31	0.64
1:pT:63:VAL:HG13	1:pT:74:ASP:CB	2.26	0.64
3:qe:55:GLU:CB	4:qm:223:ASN:HD22	2.09	0.64
5:qz:53:GLU:OE1	5:qB:35:HIS:NE2	2.29	0.64
6:qK:8:ASP:HA	6:qM:39:ARG:NH1	2.12	0.64
1:ac:99:LEU:CA	2:mL:197:LYS:NZ	2.59	0.64
1:ae:63:VAL:HG13	1:ae:74:ASP:CB	2.26	0.64
2:am:197:LYS:HA	2:oS:62:GLN:CD	2.22	0.64
2:am:238:ASN:OD1	2:am:239:PHE:N	2.29	0.64
2:aH:219:VAL:O	2:aH:246:MET:HE3	1.96	0.64
2:aL:167:GLY:N	2:aL:262:ASN:OD1	2.30	0.64
2:aN:197:LYS:HA	2:iX:62:GLN:CD	2.21	0.64
1:aO:102:GLU:OE1	1:iV:99:LEU:HG	1.95	0.64
1:aU:99:LEU:CD2	1:iP:102:GLU:OE2	2.43	0.64
2:aZ:86:VAL:O	2:aZ:202:GLN:N	2.27	0.64
1:bG:105:THR:HG21	2:gr:60:ILE:HG13	1.79	0.64
1:bW:100:LYS:HE3	1:hM:100:LYS:CG	2.27	0.64
2:bY:219:VAL:O	2:bY:246:MET:HE3	1.96	0.64
2:bZ:62:GLN:CD	2:dw:197:LYS:HA	2.22	0.64
1:cg:102:GLU:OE1	2:co:197:LYS:NZ	2.29	0.64
1:cl:88:GLU:N	1:cl:88:GLU:OE1	2.29	0.64
2:cs:197:LYS:HA	2:pu:62:GLN:CD	2.22	0.64
1:cy:99:LEU:CA	2:pi:197:LYS:CD	2.69	0.64
2:cB:62:GLN:CD	2:pl:197:LYS:HA	2.22	0.64
2:dd:62:GLN:OE1	2:eO:197:LYS:O	2.15	0.64
2:dg:167:GLY:N	2:dg:262:ASN:OD1	2.30	0.64
2:dr:238:ASN:OD1	2:dr:239:PHE:N	2.30	0.64
2:dK:197:LYS:O	2:pg:62:GLN:OE1	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dV:281:GLN:N	2:dV:281:GLN:OE1	2.30	0.64
2:dW:167:GLY:N	2:dW:262:ASN:OD1	2.30	0.64
1:dZ:83:GLY:HA3	2:oS:8:LEU:HD13	1.79	0.64
2:eM:167:GLY:N	2:eM:262:ASN:OD1	2.30	0.64
2:fl:62:GLN:OE1	2:gl:197:LYS:O	2.15	0.64
2:fy:4:ILE:CD1	1:nh:91:GLU:HA	2.28	0.64
2:fA:68:MET:CE	2:fD:84:VAL:HG21	2.28	0.64
1:fl:99:LEU:CA	2:mx:197:LYS:NZ	2.59	0.64
2:fM:98:VAL:HG11	2:fr:50:LEU:HD23	1.78	0.64
2:fO:130:CYS:SG	2:fO:131:TYR:N	2.69	0.64
2:ge:298:LEU:HD12	2:ge:298:LEU:O	1.96	0.64
2:gg:197:LYS:O	2:ih:62:GLN:OE1	2.15	0.64
2:gQ:219:VAL:O	2:gQ:246:MET:HE3	1.96	0.64
1:hr:70:GLY:HA2	6:qG:117:LYS:O	1.98	0.64
2:hu:281:GLN:OE1	2:hu:281:GLN:N	2.30	0.64
2:hG:197:LYS:NZ	1:kx:99:LEU:CA	2.59	0.64
2:hI:167:GLY:N	2:hI:262:ASN:OD1	2.30	0.64
1:ie:63:VAL:HG13	1:ie:74:ASP:CB	2.26	0.64
2:iI:219:VAL:O	2:iI:246:MET:HE3	1.96	0.64
2:iM:167:GLY:N	2:iM:262:ASN:OD1	2.30	0.64
1:je:102:GLU:OE1	2:jm:197:LYS:NZ	2.30	0.64
2:jl:8:LEU:HD13	1:ly:83:GLY:HA3	1.79	0.64
1:jH:99:LEU:HA	1:om:102:GLU:CD	2.21	0.64
2:jS:239:PHE:CE1	2:jS:294:LEU:HD22	2.31	0.64
2:kg:239:PHE:CE1	2:kg:294:LEU:HD22	2.31	0.64
2:kp:130:CYS:SG	2:kp:131:TYR:N	2.69	0.64
2:kH:197:LYS:HA	2:kQ:62:GLN:CD	2.22	0.64
2:kH:238:ASN:OD1	2:kH:239:PHE:N	2.30	0.64
1:kI:102:GLU:OE1	1:kO:99:LEU:HG	1.95	0.64
1:kN:63:VAL:HG13	1:kN:74:ASP:CB	2.26	0.64
2:kQ:198:GLU:CD	1:mW:101:VAL:CG1	2.58	0.64
2:kS:281:GLN:N	2:kS:281:GLN:OE1	2.30	0.64
2:lg:281:GLN:N	2:lg:281:GLN:OE1	2.30	0.64
2:lw:171:TYR:HH	2:lw:175:THR:HG1	1.42	0.64
1:lC:87:ASP:CB	2:na:5:THR:HG22	2.26	0.64
2:lT:98:VAL:HG11	2:lY:50:LEU:HD23	1.78	0.64
2:mj:68:MET:CE	2:mm:84:VAL:HG21	2.28	0.64
2:mx:68:MET:CE	2:mA:84:VAL:HG21	2.28	0.64
2:my:281:GLN:OE1	2:my:281:GLN:N	2.30	0.64
1:mC:103:ARG:NE	2:oe:61:GLY:O	2.31	0.64
1:mF:99:LEU:C	2:nn:197:LYS:HZ2	2.06	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nC:281:GLN:OE1	2:nC:281:GLN:N	2.30	0.64
2:nQ:5:THR:HG22	1:nY:87:ASP:CB	2.26	0.64
1:oP:63:VAL:HG13	1:oP:74:ASP:CB	2.26	0.64
2:ph:68:MET:CE	2:pk:84:VAL:HG21	2.28	0.64
2:pw:281:GLN:N	2:pw:281:GLN:OE1	2.30	0.64
1:pU:88:GLU:N	1:pU:88:GLU:OE1	2.29	0.64
3:qf:66:GLN:C	4:ql:194:LEU:HD11	2.20	0.64
3:qi:66:GLN:CA	4:qo:8:TYR:O	2.45	0.64
5:qt:252:LEU:CD2	6:qw:126:GLN:CB	2.58	0.64
5:qv:255:VAL:HG12	5:qx:263:ALA:CB	2.27	0.64
5:qz:42:PRO:HD2	6:qE:133:ASP:CG	2.22	0.64
6:qC:8:ASP:HA	6:qE:39:ARG:NH1	2.12	0.64
2:aj:5:THR:HG22	1:oO:87:ASP:CB	2.26	0.64
1:an:103:ARG:NE	2:oS:61:GLY:O	2.31	0.64
2:aI:62:GLN:CD	2:kg:197:LYS:HA	2.21	0.64
2:aK:197:LYS:CD	1:iU:99:LEU:CA	2.69	0.64
2:aW:62:GLN:OE1	2:iO:197:LYS:O	2.15	0.64
2:aW:238:ASN:OD1	2:aW:239:PHE:N	2.30	0.64
1:bc:102:GLU:OE1	1:bi:99:LEU:HG	1.95	0.64
2:bk:75:ILE:HG21	2:bk:177:ARG:HH12	1.60	0.64
1:bF:100:LYS:CG	1:IR:100:LYS:HE3	2.27	0.64
2:bL:219:VAL:O	2:bL:246:MET:HE3	1.96	0.64
1:bS:100:LYS:CG	1:hQ:100:LYS:HE3	2.28	0.64
1:bX:99:LEU:HG	1:dx:102:GLU:OE1	1.95	0.64
2:bZ:238:ASN:OD1	2:bZ:239:PHE:N	2.30	0.64
2:cC:191:SER:OG	2:dV:186:GLU:O	2.08	0.64
2:cE:298:LEU:O	2:cE:298:LEU:HD12	1.96	0.64
1:cH:102:GLU:OE2	1:cN:99:LEU:CD2	2.43	0.64
1:cK:99:LEU:CA	2:iK:197:LYS:NZ	2.59	0.64
2:cU:197:LYS:O	2:eX:62:GLN:OE1	2.15	0.64
2:dd:238:ASN:OD1	2:dd:239:PHE:N	2.30	0.64
1:dl:102:GLU:CD	1:hN:99:LEU:HA	2.21	0.64
1:dA:91:GLU:HA	2:pf:4:ILE:CD1	2.28	0.64
2:dY:239:PHE:CE1	2:dY:294:LEU:HD22	2.31	0.64
1:dZ:102:GLU:OE2	1:nM:99:LEU:HG	1.74	0.64
2:eh:238:ASN:OD1	2:eh:239:PHE:N	2.30	0.64
1:eG:100:LYS:HE3	1:gK:100:LYS:CG	2.28	0.64
2:eJ:62:GLN:CD	2:gu:197:LYS:HA	2.22	0.64
2:eK:68:MET:CE	2:eN:84:VAL:HG21	2.27	0.64
1:fu:91:GLU:HA	2:mh:4:ILE:CD1	2.28	0.64
2:fE:239:PHE:CE1	2:fE:294:LEU:HD22	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fF:83:GLY:HA3	2:nm:8:LEU:HD13	1.79	0.64
2:fS:294:LEU:CD2	2:fS:295:VAL:HG23	2.26	0.64
1:fT:103:ARG:NE	2:gb:61:GLY:O	2.31	0.64
2:gf:87:LYS:NZ	2:gf:201:GLU:OE1	2.27	0.64
2:go:67:ASP:OD1	1:gv:95:SER:OG	2.13	0.64
1:gM:91:GLU:HA	2:IT:4:ILE:CD1	2.28	0.64
1:gZ:99:LEU:HA	1:mq:102:GLU:CD	2.21	0.64
2:hh:281:GLN:N	2:hh:281:GLN:OE1	2.30	0.64
2:hs:67:ASP:OD1	1:hy:95:SER:OG	2.13	0.64
2:hw:87:LYS:NZ	2:hw:201:GLU:OE1	2.27	0.64
2:ij:281:GLN:OE1	2:ij:281:GLN:N	2.30	0.64
1:it:99:LEU:HG	1:jT:102:GLU:OE1	1.95	0.64
2:iw:197:LYS:NZ	1:pR:99:LEU:CA	2.59	0.64
2:iy:298:LEU:HD12	2:iy:298:LEU:O	1.96	0.64
2:jc:197:LYS:O	2:jl:62:GLN:OE1	2.15	0.64
2:jp:171:TYR:OH	2:jp:175:THR:OG1	2.12	0.64
2:jz:61:GLY:O	1:lk:103:ARG:NE	2.31	0.64
2:jC:167:GLY:N	2:jC:262:ASN:OD1	2.30	0.64
1:jF:83:GLY:HA3	2:le:8:LEU:HD13	1.79	0.64
1:jF:103:ARG:NE	2:pW:61:GLY:O	2.31	0.64
2:jN:62:GLN:OE1	2:pN:197:LYS:O	2.15	0.64
1:jV:105:THR:HG21	2:na:60:ILE:HG13	1.79	0.64
2:kb:62:GLN:OE1	2:lx:197:LYS:O	2.15	0.64
2:kc:68:MET:CE	2:kf:84:VAL:HG21	2.28	0.64
2:ko:184:TYR:CE2	5:qH:30:LYS:CB	2.78	0.64
2:kF:298:LEU:HD12	2:kF:298:LEU:O	1.96	0.64
2:kQ:78:LYS:NZ	2:mY:58:GLU:OE1	2.27	0.64
2:lJ:167:GLY:N	2:lJ:262:ASN:OD1	2.30	0.64
1:lR:63:VAL:HG13	1:lR:74:ASP:CB	2.26	0.64
2:mi:8:LEU:HD13	1:mC:83:GLY:HA3	1.79	0.64
2:mn:238:ASN:OD1	2:mn:239:PHE:N	2.29	0.64
2:mK:238:ASN:OD1	2:mK:239:PHE:N	2.30	0.64
1:mV:63:VAL:HG13	1:mV:74:ASP:CB	2.26	0.64
2:nm:61:GLY:O	1:oK:103:ARG:NE	2.31	0.64
2:og:87:LYS:NZ	2:og:201:GLU:OE1	2.27	0.64
2:ot:167:GLY:N	2:ot:262:ASN:OD1	2.30	0.64
2:pg:75:ILE:HG21	2:pg:177:ARG:HH12	1.60	0.64
2:py:87:LYS:NZ	2:py:201:GLU:OE1	2.27	0.64
2:pz:238:ASN:OD1	2:pz:239:PHE:N	2.30	0.64
3:qg:19:ARG:NH1	3:qh:135:GLY:O	2.30	0.64
3:qg:64:GLY:C	4:qk:10:GLN:NE2	2.54	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qh:66:GLN:H	4:qj:10:GLN:CG	1.96	0.64
4:qn:19:VAL:O	4:qn:22:VAL:HG12	1.95	0.64
6:qu:8:ASP:HA	6:qw:39:ARG:NH1	2.12	0.64
5:qv:42:PRO:HD2	6:qA:133:ASP:CG	2.22	0.64
1:ac:91:GLU:HA	2:oR:4:ILE:CD1	2.28	0.64
1:as:63:VAL:HG13	1:as:74:ASP:CB	2.26	0.64
2:aw:281:GLN:N	2:aw:281:GLN:OE1	2.30	0.64
1:aF:99:LEU:HA	2:kd:197:LYS:CD	2.13	0.64
1:aG:88:GLU:OE1	1:aG:88:GLU:N	2.29	0.64
1:aO:100:LYS:NZ	1:aO:101:VAL:O	2.31	0.64
1:aR:91:GLU:HA	2:bj:4:ILE:CD1	2.28	0.64
2:bp:197:LYS:O	2:dr:62:GLN:OE1	2.15	0.64
2:bx:4:ILE:CD1	1:cY:91:GLU:HA	2.28	0.64
2:bz:68:MET:CE	2:bC:84:VAL:HG21	2.28	0.64
2:bC:219:VAL:HG23	2:bC:259:ILE:HD12	1.80	0.64
1:bE:102:GLU:OE2	1:hR:99:LEU:CD2	2.43	0.64
2:bL:67:ASP:OD1	1:bR:95:SER:OG	2.13	0.64
2:bQ:294:LEU:CD2	2:bQ:295:VAL:HG23	2.26	0.64
2:bZ:61:GLY:O	1:dx:103:ARG:NE	2.31	0.64
2:cm:4:ILE:CD1	1:iq:91:GLU:HA	2.28	0.64
2:cm:219:VAL:O	2:cm:246:MET:HE3	1.96	0.64
2:cn:61:GLY:O	1:iB:103:ARG:NE	2.31	0.64
2:cn:238:ASN:OD1	2:cn:239:PHE:N	2.30	0.64
2:cr:87:LYS:NZ	2:cr:201:GLU:OE1	2.27	0.64
2:cG:197:LYS:O	2:cP:62:GLN:OE1	2.15	0.64
1:cH:102:GLU:OE1	1:cN:99:LEU:HG	1.95	0.64
1:cH:103:ARG:NE	2:cP:61:GLY:O	2.31	0.64
2:cQ:68:MET:CE	2:cT:84:VAL:HG21	2.28	0.64
2:dd:61:GLY:O	1:eP:103:ARG:NE	2.31	0.64
2:dG:60:ILE:CG2	1:eS:105:THR:CG2	2.62	0.64
2:eg:219:VAL:O	2:eg:246:MET:HE3	1.96	0.64
2:ek:167:GLY:N	2:ek:262:ASN:OD1	2.30	0.64
2:fc:239:PHE:CE1	2:fc:294:LEU:HD22	2.31	0.64
1:fd:100:LYS:NZ	1:fd:101:VAL:O	2.31	0.64
2:fm:68:MET:CE	2:fp:84:VAL:HG21	2.28	0.64
2:fN:61:GLY:O	1:ma:103:ARG:NE	2.31	0.64
1:fU:100:LYS:CG	1:mt:100:LYS:HE3	2.27	0.64
1:fY:100:LYS:HE3	1:mp:100:LYS:CG	2.27	0.64
2:gr:281:GLN:N	2:gr:281:GLN:OE1	2.30	0.64
2:gI:238:ASN:OD1	2:gI:239:PHE:N	2.30	0.64
1:gP:99:LEU:CD2	1:in:102:GLU:OE2	2.43	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gR:61:GLY:O	1:in:103:ARG:NE	2.31	0.64
2:gT:281:GLN:OE1	2:gT:281:GLN:N	2.30	0.64
2:hf:61:GLY:O	1:IM:103:ARG:NE	2.31	0.64
1:hm:100:LYS:CG	1:iU:100:LYS:HE3	2.27	0.64
1:hA:105:THR:HG21	2:IW:60:ILE:HG13	1.79	0.64
1:hD:100:LYS:HE3	1:kj:100:LYS:CG	2.27	0.64
1:in:100:LYS:NZ	1:in:101:VAL:O	2.31	0.64
1:jR:102:GLU:OE2	1:lq:99:LEU:CD2	2.43	0.64
1:kL:91:GLU:HA	2:mX:4:ILE:CD1	2.28	0.64
1:lb:100:LYS:HE3	1:nf:100:LYS:CG	2.28	0.64
2:IW:281:GLN:OE1	2:IW:281:GLN:N	2.30	0.64
1:mo:103:ARG:NE	2:mw:61:GLY:O	2.31	0.64
1:mC:100:LYS:NZ	1:mC:101:VAL:O	2.31	0.64
1:mD:100:LYS:CG	1:oP:100:LYS:HE3	2.27	0.64
2:mL:68:MET:CE	2:mO:84:VAL:HG21	2.28	0.64
1:mQ:83:GLY:HA3	2:oq:8:LEU:HD13	1.79	0.64
2:nm:238:ASN:OD1	2:nm:239:PHE:N	2.30	0.64
1:nt:102:GLU:OE1	2:nB:197:LYS:NZ	2.30	0.64
2:pv:68:MET:CE	2:py:84:VAL:HG21	2.28	0.64
2:py:219:VAL:HG23	2:py:259:ILE:HD12	1.80	0.64
2:pK:281:GLN:N	2:pK:281:GLN:OE1	2.30	0.64
2:pX:68:MET:CE	2:qa:84:VAL:HG21	2.28	0.64
2:qb:294:LEU:CD2	2:qb:295:VAL:HG23	2.26	0.64
3:qh:61:ASP:CA	4:qj:33:SER:HB3	2.04	0.64
6:qG:8:ASP:HA	6:qI:39:ARG:NH1	2.12	0.64
2:ag:4:ILE:CD1	1:nX:91:GLU:HA	2.28	0.64
2:ah:238:ASN:OD1	2:ah:239:PHE:N	2.30	0.64
2:aj:60:ILE:HG13	1:ng:105:THR:HG21	1.79	0.64
2:am:294:LEU:CD2	2:am:295:VAL:HG23	2.26	0.64
2:au:4:ILE:CD1	1:bH:91:GLU:HA	2.28	0.64
2:av:191:SER:OG	2:hV:186:GLU:O	2.08	0.64
2:aJ:107:GLY:HA2	2:aJ:184:TYR:OH	1.98	0.64
1:aT:99:LEU:CA	2:iL:197:LYS:CD	2.69	0.64
2:aW:78:LYS:NZ	2:bk:58:GLU:OE1	2.27	0.64
2:bm:281:GLN:N	2:bm:281:GLN:OE1	2.30	0.64
1:bq:103:ARG:NE	2:dr:61:GLY:O	2.31	0.64
1:bs:105:THR:HG21	2:cb:60:ILE:HG13	1.79	0.64
2:bB:167:GLY:N	2:bB:262:ASN:OD1	2.30	0.64
1:bF:102:GLU:OE1	2:bM:197:LYS:NZ	2.29	0.64
2:bN:60:ILE:HG13	1:gL:105:THR:HG21	1.79	0.64
2:bO:167:GLY:N	2:bO:262:ASN:OD1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bU:105:THR:HG21	2:iK:60:ILE:HG23	1.75	0.64
1:bV:87:ASP:CB	2:dt:5:THR:HG22	2.26	0.64
1:ci:91:GLU:HA	2:pt:4:ILE:CD1	2.28	0.64
2:cB:8:LEU:HD13	1:cV:83:GLY:HA3	1.79	0.64
1:cX:105:THR:HG21	2:dH:60:ILE:HG13	1.79	0.64
2:dd:184:TYR:HH	2:dd:204:PHE:HD1	1.44	0.64
2:dG:107:GLY:HA2	2:dG:184:TYR:OH	1.98	0.64
1:dM:100:LYS:CG	1:jK:100:LYS:HE3	2.27	0.64
2:dV:5:THR:HG22	1:nK:87:ASP:CB	2.26	0.64
1:dZ:103:ARG:NE	2:nO:61:GLY:O	2.31	0.64
1:ee:100:LYS:HE3	1:mb:100:LYS:CG	2.27	0.64
2:em:197:LYS:HA	2:ev:62:GLN:CD	2.22	0.64
1:en:100:LYS:NZ	1:en:101:VAL:O	2.31	0.64
1:eD:102:GLU:CD	1:ff:99:LEU:HA	2.21	0.64
2:eI:67:ASP:OD1	1:eP:95:SER:OG	2.13	0.64
2:eJ:61:GLY:O	1:gv:103:ARG:NE	2.31	0.64
1:fh:87:ASP:CB	2:gF:5:THR:HG22	2.26	0.64
1:fj:99:LEU:CD2	1:gJ:102:GLU:OE2	2.43	0.64
2:fm:107:GLY:HA2	2:fm:184:TYR:OH	1.98	0.64
1:fr:103:ARG:NE	2:nA:61:GLY:O	2.31	0.64
1:fJ:87:ASP:CB	2:lW:5:THR:HG22	2.26	0.64
2:fO:68:MET:CE	2:fR:84:VAL:HG21	2.28	0.64
2:gb:238:ASN:OD1	2:gb:239:PHE:N	2.30	0.64
2:gt:87:LYS:NZ	2:gt:201:GLU:OE1	2.27	0.64
2:gu:294:LEU:CD2	2:gu:295:VAL:HG23	2.26	0.64
1:gv:100:LYS:NZ	1:gv:101:VAL:O	2.31	0.64
1:gP:88:GLU:N	1:gP:88:GLU:OE1	2.29	0.64
2:gR:62:GLN:CD	2:im:197:LYS:HA	2.22	0.64
2:gR:238:ASN:OD1	2:gR:239:PHE:N	2.30	0.64
1:gX:103:ARG:NE	2:lU:61:GLY:O	2.31	0.64
2:hF:62:GLN:OE1	2:lL:197:LYS:O	2.15	0.64
2:hG:68:MET:CE	2:hJ:84:VAL:HG21	2.27	0.64
1:hL:103:ARG:NE	2:kC:61:GLY:O	2.31	0.64
2:hs:4:ILE:CD1	1:kk:91:GLU:HA	2.28	0.64
2:hT:238:ASN:OD1	2:hT:239:PHE:N	2.30	0.64
2:hY:238:ASN:OD1	2:hY:239:PHE:N	2.30	0.64
1:ie:100:LYS:HE3	1:nt:100:LYS:CG	2.27	0.64
1:iP:100:LYS:NZ	1:iP:101:VAL:O	2.31	0.64
1:iR:99:LEU:CD1	1:kj:60:ARG:NH1	2.26	0.64
2:iW:67:ASP:OD1	1:jd:95:SER:OG	2.13	0.64
2:jk:67:ASP:OD1	1:jR:95:SER:OG	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jt:105:THR:HG21	2:kd:60:ILE:HG13	1.79	0.64
1:ju:91:GLU:HA	2:pV:4:ILE:CD1	2.28	0.64
2:kb:61:GLY:O	1:ly:103:ARG:NE	2.31	0.64
2:kt:108:ARG:CA	5:qD:178:PRO:HG3	2.27	0.64
2:kt:238:ASN:OD1	2:kt:239:PHE:N	2.30	0.64
2:kF:167:GLY:N	2:kF:262:ASN:OD1	2.30	0.64
1:kI:100:LYS:NZ	1:kI:101:VAL:O	2.31	0.64
2:kV:197:LYS:O	2:mY:62:GLN:OE1	2.15	0.64
1:lb:99:LEU:CA	2:mM:197:LYS:CD	2.68	0.64
2:lt:107:GLY:HA2	2:lt:184:TYR:OH	1.98	0.64
2:lx:239:PHE:CE1	2:lx:294:LEU:HD22	2.31	0.64
2:lG:61:GLY:O	1:ne:103:ARG:NE	2.31	0.64
1:lM:100:LYS:NZ	1:lM:101:VAL:O	2.31	0.64
2:mA:219:VAL:HG23	2:mA:259:ILE:HD12	1.80	0.64
2:nm:62:GLN:OE1	2:oJ:197:LYS:O	2.15	0.64
2:nz:219:VAL:O	2:nz:246:MET:HE3	1.96	0.64
2:or:68:MET:CE	2:ou:84:VAL:HG21	2.28	0.64
2:oV:167:GLY:N	2:oV:262:ASN:OD1	2.30	0.64
1:pA:100:LYS:NZ	1:pA:101:VAL:O	2.31	0.64
3:qd:66:GLN:C	4:qn:8:TYR:CD2	2.75	0.64
3:qi:66:GLN:O	4:qo:10:GLN:NE2	2.30	0.64
6:qE:8:ASP:HA	6:qG:39:ARG:NH1	2.12	0.64
1:aA:102:GLU:OE2	1:kn:99:LEU:CD2	2.43	0.64
1:aQ:105:THR:HG21	2:jn:60:ILE:HG13	1.79	0.64
2:bj:219:VAL:O	2:bj:246:MET:HE3	1.96	0.64
1:bq:100:LYS:NZ	1:bq:101:VAL:O	2.31	0.64
2:bA:197:LYS:CD	1:hQ:99:LEU:HA	2.13	0.64
2:bL:4:ILE:CD1	1:hB:91:GLU:HA	2.28	0.64
1:cf:100:LYS:NZ	1:cf:101:VAL:O	2.31	0.64
2:cp:281:GLN:N	2:cp:281:GLN:OE1	2.30	0.64
2:cG:238:ASN:OD1	2:cG:239:PHE:N	2.29	0.64
1:dj:83:GLY:HA3	2:eJ:8:LEU:HD13	1.79	0.64
2:dq:98:VAL:HG11	2:dv:50:LEU:HD23	1.78	0.64
1:dD:99:LEU:CD2	1:fd:102:GLU:OE2	2.43	0.64
1:dL:100:LYS:NZ	1:dL:101:VAL:O	2.31	0.64
2:dT:62:GLN:CD	2:oX:197:LYS:HA	2.21	0.64
2:dU:107:GLY:HA2	2:dU:184:TYR:OH	1.98	0.64
1:ec:99:LEU:CA	2:od:197:LYS:NZ	2.59	0.64
2:ex:197:LYS:CD	1:gA:99:LEU:HA	2.13	0.64
2:fz:8:LEU:HD13	1:mo:83:GLY:HA3	1.79	0.64
2:fC:167:GLY:N	2:fC:262:ASN:OD1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fG:100:LYS:CG	1:kz:100:LYS:HE3	2.27	0.64
2:fS:238:ASN:OD1	2:fS:239:PHE:N	2.30	0.64
1:fV:102:GLU:CD	1:nu:99:LEU:HA	2.21	0.64
2:gd:5:THR:HG22	1:id:87:ASP:CB	2.26	0.64
2:gQ:67:ASP:OD1	1:gX:95:SER:OG	2.13	0.64
2:gR:62:GLN:OE1	2:im:197:LYS:O	2.15	0.64
1:ha:91:GLU:HA	2:kB:4:ILE:CD1	2.28	0.64
1:hl:102:GLU:OE2	1:kA:99:LEU:HG	1.74	0.64
2:ih:238:ASN:OD1	2:ih:239:PHE:N	2.30	0.64
1:io:100:LYS:CG	1:on:100:LYS:HE3	2.28	0.64
1:iD:105:THR:HG21	2:pw:60:ILE:HG13	1.79	0.64
1:iS:91:GLU:HA	2:jk:4:ILE:CD1	2.28	0.64
1:jd:100:LYS:NZ	1:jd:101:VAL:O	2.31	0.64
1:jd:102:GLU:OE2	1:jj:99:LEU:CD2	2.43	0.64
2:jz:62:GLN:CD	2:lj:197:LYS:HA	2.22	0.64
2:jA:68:MET:CE	2:jD:84:VAL:HG21	2.28	0.64
2:ko:31:TYR:CE2	5:qF:178:PRO:CG	2.63	0.64
2:kp:68:MET:CE	2:ks:84:VAL:HG21	2.28	0.64
2:kq:281:GLN:N	2:kq:281:GLN:OE1	2.30	0.64
2:kD:197:LYS:NZ	1:lP:99:LEU:CA	2.59	0.64
2:kH:197:LYS:O	2:kQ:62:GLN:OE1	2.15	0.64
2:lj:294:LEU:CD2	2:lj:295:VAL:HG23	2.26	0.64
2:lH:68:MET:CE	2:lK:84:VAL:HG21	2.28	0.64
2:lT:67:ASP:OD1	1:ma:95:SER:OG	2.13	0.64
2:mi:238:ASN:OD1	2:mi:239:PHE:N	2.30	0.64
2:ml:167:GLY:N	2:ml:262:ASN:OD1	2.30	0.64
2:mO:87:LYS:NZ	2:mO:201:GLU:OE1	2.27	0.64
2:mZ:68:MET:CE	2:nc:84:VAL:HG21	2.28	0.64
2:nq:219:VAL:HG23	2:nq:259:ILE:HD12	1.80	0.64
2:nB:68:MET:CE	2:nE:84:VAL:HG21	2.28	0.64
1:oK:100:LYS:NZ	1:oK:101:VAL:O	2.31	0.64
1:oY:100:LYS:NZ	1:oY:101:VAL:O	2.31	0.64
2:pz:197:LYS:O	2:pI:62:GLN:OE1	2.15	0.64
5:qD:42:PRO:HD2	6:qI:133:ASP:CG	2.23	0.64
1:ae:100:LYS:HE3	1:fs:100:LYS:CG	2.27	0.64
1:af:99:LEU:CD2	1:oi:102:GLU:OE2	2.43	0.64
2:ah:8:LEU:HD13	1:oY:83:GLY:HA3	1.79	0.64
1:aA:102:GLU:OE1	1:kn:99:LEU:HG	1.95	0.64
2:aJ:68:MET:CE	2:aM:84:VAL:HG21	2.28	0.64
2:aV:4:ILE:CD1	1:iE:91:GLU:HA	2.28	0.64
2:aW:8:LEU:HD13	1:bq:83:GLY:HA3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aY:60:ILE:HG13	1:ch:105:THR:HG21	1.79	0.64
1:bG:60:ARG:NH1	1:gj:99:LEU:CD1	2.26	0.64
2:bM:68:MET:CE	2:bP:84:VAL:HG21	2.28	0.64
2:cq:167:GLY:N	2:cq:262:ASN:OD1	2.30	0.64
2:cB:62:GLN:OE1	2:pl:197:LYS:O	2.15	0.64
2:cC:68:MET:CE	2:cF:84:VAL:HG21	2.28	0.64
1:cH:83:GLY:HA3	2:pg:8:LEU:HD13	1.79	0.64
2:dt:186:GLU:O	2:hU:191:SER:OG	2.08	0.64
2:dT:61:GLY:O	1:oY:103:ARG:NE	2.31	0.64
2:ev:198:GLU:CD	1:gB:101:VAL:CG1	2.58	0.64
2:ez:171:TYR:OH	2:ez:175:THR:OG1	2.12	0.64
2:eI:4:ILE:CD1	1:gk:91:GLU:HA	2.28	0.64
1:eU:100:LYS:HE3	1:iC:100:LYS:CG	2.28	0.64
2:eX:238:ASN:OD1	2:eX:239:PHE:N	2.30	0.64
2:fz:62:GLN:OE1	2:nr:197:LYS:O	2.15	0.64
1:fF:103:ARG:NE	2:mi:61:GLY:O	2.31	0.64
1:fI:91:GLU:HA	2:ga:4:ILE:CD1	2.28	0.64
2:gD:238:ASN:OD1	2:gD:239:PHE:N	2.30	0.64
1:gN:87:ASP:CB	2:ij:5:THR:HG22	2.26	0.64
2:gW:238:ASN:OD1	2:gW:239:PHE:N	2.29	0.64
2:hf:8:LEU:HD13	1:kI:83:GLY:HA3	1.79	0.64
2:hf:238:ASN:OD1	2:hf:239:PHE:N	2.30	0.64
2:hk:197:LYS:HA	2:kC:62:GLN:CD	2.22	0.64
1:ho:99:LEU:CA	2:kR:197:LYS:NZ	2.59	0.64
2:hs:104:GLN:CD	5:qB:165:PRO:HG2	2.23	0.64
2:hJ:219:VAL:HG23	2:hJ:259:ILE:HD12	1.80	0.64
2:hU:68:MET:CE	2:hX:84:VAL:HG21	2.28	0.64
1:iS:60:ARG:CD	1:ji:99:LEU:HD21	2.18	0.64
1:jR:103:ARG:NE	2:ls:61:GLY:O	2.31	0.64
2:jC:86:VAL:O	2:jC:202:GLN:N	2.27	0.64
2:jR:219:VAL:HG23	2:jR:259:ILE:HD12	1.80	0.64
2:ko:104:GLN:HE21	5:qH:26:ALA:C	2.05	0.64
2:kt:103:MET:HG3	5:qD:56:ASN:OD1	1.97	0.64
1:ku:100:LYS:NZ	1:ku:101:VAL:O	2.31	0.64
1:kA:88:GLU:OE1	1:kA:88:GLU:N	2.29	0.64
1:kI:103:ARG:NE	2:kQ:61:GLY:O	2.31	0.64
2:le:62:GLN:OE1	2:mP:197:LYS:O	2.15	0.64
2:lt:68:MET:CE	2:lw:84:VAL:HG21	2.28	0.64
2:mk:281:GLN:N	2:mk:281:GLN:OE1	2.30	0.64
2:np:167:GLY:N	2:np:262:ASN:OD1	2.30	0.64
1:pm:100:LYS:NZ	1:pm:101:VAL:O	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qi:25:LEU:HD21	6:qq:82:VAL:CG2	2.28	0.64
4:qn:89:VAL:CG2	4:qo:245:ASP:HB2	2.22	0.64
5:qD:53:GLU:OE1	5:qF:35:HIS:NE2	2.29	0.64
5:qD:255:VAL:HG12	5:qF:263:ALA:CB	2.27	0.64
6:qE:112:LEU:CG	6:qG:58:LEU:HD12	2.09	0.64
5:qJ:96:ARG:CD	5:qL:114:LEU:HD23	2.11	0.64
1:an:100:LYS:NZ	1:an:101:VAL:O	2.31	0.64
1:as:100:LYS:HE3	1:gi:100:LYS:CG	2.27	0.64
2:ax:167:GLY:N	2:ax:262:ASN:OD1	2.30	0.64
2:aH:4:ILE:CD1	1:jW:91:GLU:HA	2.28	0.64
2:aH:98:VAL:HG11	2:aM:50:LEU:HD23	1.78	0.64
2:aH:197:LYS:HZ2	1:kh:100:LYS:HD2	1.61	0.64
2:bj:67:ASP:OD1	1:bq:95:SER:OG	2.13	0.64
2:bl:68:MET:CE	2:bo:84:VAL:HG21	2.28	0.64
2:by:62:GLN:OE1	2:di:197:LYS:O	2.15	0.64
2:bP:197:LYS:HE3	2:lX:62:GLN:HG3	1.67	0.64
2:cp:5:THR:HG22	1:pq:87:ASP:CB	2.26	0.64
1:ct:103:ARG:NE	2:pu:61:GLY:O	2.31	0.64
2:cB:61:GLY:O	1:pm:103:ARG:NE	2.31	0.64
1:cH:100:LYS:NZ	1:cH:101:VAL:O	2.31	0.64
1:cJ:105:THR:HG21	2:iL:60:ILE:HG13	1.79	0.64
2:cP:78:LYS:NZ	2:eX:58:GLU:OE1	2.27	0.64
2:cQ:191:SER:OG	2:pw:186:GLU:O	2.08	0.64
1:dp:88:GLU:N	1:dp:88:GLU:OE1	2.29	0.64
1:dx:100:LYS:NZ	1:dx:101:VAL:O	2.31	0.64
1:dO:91:GLU:HA	2:nN:4:ILE:CD1	2.28	0.64
2:dW:86:VAL:O	2:dW:202:GLN:N	2.27	0.64
1:ea:100:LYS:CG	1:mf:100:LYS:HE3	2.27	0.64
1:ed:87:ASP:CB	2:nC:5:THR:HG22	2.26	0.64
2:eh:62:GLN:CD	2:nF:197:LYS:HA	2.22	0.64
2:ei:68:MET:CE	2:el:84:VAL:HG21	2.28	0.64
2:ej:60:ILE:HG13	1:ft:105:THR:HG21	1.79	0.64
1:eo:100:LYS:CG	1:nZ:100:LYS:HE3	2.27	0.64
2:ey:86:VAL:O	2:ey:202:GLN:N	2.27	0.64
2:ey:167:GLY:N	2:ey:262:ASN:OD1	2.30	0.64
1:eD:105:THR:HG21	2:fn:60:ILE:HG13	1.79	0.64
1:ff:105:THR:HG21	2:ij:60:ILE:HG13	1.79	0.64
1:fZ:88:GLU:N	1:fZ:88:GLU:OE1	2.29	0.64
2:gp:62:GLN:OE1	2:hY:197:LYS:O	2.15	0.64
2:gs:167:GLY:N	2:gs:262:ASN:OD1	2.30	0.64
2:gV:219:VAL:HG23	2:gV:259:ILE:HD12	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gX:100:LYS:NZ	1:gX:101:VAL:O	2.31	0.64
1:hd:99:LEU:HG	1:IM:102:GLU:OE1	1.95	0.64
2:hs:108:ARG:N	5:qB:177:SER:HA	2.12	0.64
2:hu:5:THR:HG22	1:hC:87:ASP:CB	2.26	0.64
2:hX:87:LYS:NZ	2:hX:201:GLU:OE1	2.27	0.64
2:ii:68:MET:CE	2:il:84:VAL:HG21	2.28	0.64
2:iJ:75:ILE:HG21	2:iJ:177:ARG:HH12	1.60	0.64
2:iM:86:VAL:O	2:iM:202:GLN:N	2.27	0.64
2:iX:8:LEU:HD13	1:jr:83:GLY:HA3	1.79	0.64
2:iY:68:MET:CE	2:jb:84:VAL:HG21	2.28	0.64
2:jl:78:LYS:NZ	2:ls:58:GLU:OE1	2.27	0.64
2:jm:68:MET:CE	2:jp:84:VAL:HG21	2.28	0.64
2:jn:281:GLN:N	2:jn:281:GLN:OE1	2.30	0.64
2:jz:75:ILE:HG21	2:jz:177:ARG:HH12	1.60	0.64
1:jZ:88:GLU:N	1:jZ:88:GLU:OE1	2.29	0.64
2:kC:8:LEU:HD13	1:kW:83:GLY:HA3	1.79	0.64
2:kD:68:MET:CE	2:kG:84:VAL:HG21	2.28	0.64
1:kW:103:ARG:NE	2:mY:61:GLY:O	2.31	0.64
1:md:91:GLU:HA	2:mv:4:ILE:CD1	2.28	0.64
2:mY:238:ASN:OD1	2:mY:239:PHE:N	2.30	0.64
1:nG:100:LYS:NZ	1:nG:101:VAL:O	2.31	0.64
1:nJ:91:GLU:HA	2:ob:4:ILE:CD1	2.28	0.64
2:nO:238:ASN:OD1	2:nO:239:PHE:N	2.30	0.64
1:nU:103:ARG:NE	2:oc:61:GLY:O	2.31	0.64
2:oc:134:GLN:OE1	2:oc:134:GLN:N	2.30	0.64
2:os:186:GLU:O	2:oT:191:SER:OG	2.08	0.64
1:ow:100:LYS:NZ	1:ow:101:VAL:O	2.31	0.64
2:oG:281:GLN:N	2:oG:281:GLN:OE1	2.30	0.64
1:pe:88:GLU:OE1	1:pe:88:GLU:N	2.29	0.64
2:pN:294:LEU:CD2	2:pN:295:VAL:HG23	2.26	0.64
1:qc:100:LYS:NZ	1:qc:101:VAL:O	2.31	0.64
3:qh:68:ALA:HA	4:qj:8:TYR:OH	1.97	0.64
3:qi:67:ARG:HB3	4:qo:194:LEU:CD1	2.27	0.64
6:qq:133:ASP:CG	5:qJ:42:PRO:HD2	2.23	0.64
1:aa:102:GLU:OE1	2:ai:197:LYS:NZ	2.30	0.64
2:ai:191:SER:OG	2:no:186:GLU:O	2.08	0.64
2:ak:167:GLY:N	2:ak:262:ASN:OD1	2.30	0.64
1:ao:100:LYS:CG	1:gm:100:LYS:HE3	2.27	0.64
1:aA:100:LYS:NZ	1:aA:101:VAL:O	2.31	0.64
2:aX:68:MET:CE	2:ba:84:VAL:HG21	2.28	0.64
2:aX:107:GLY:HA2	2:aX:184:TYR:OH	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bv:100:LYS:HE3	1:dy:100:LYS:CG	2.28	0.64
2:bx:67:ASP:OD1	1:bE:95:SER:OG	2.13	0.64
1:bH:99:LEU:CA	2:gq:197:LYS:NZ	2.59	0.64
1:bU:103:ARG:CG	2:iK:61:GLY:O	2.42	0.64
1:bW:99:LEU:CA	2:dt:197:LYS:CD	2.68	0.64
2:bY:4:ILE:CD1	1:dm:91:GLU:HA	2.28	0.64
2:cn:75:ILE:HG21	2:cn:177:ARG:HH12	1.60	0.64
2:cP:238:ASN:OD1	2:cP:239:PHE:N	2.30	0.64
2:df:60:ILE:HG13	1:gx:105:THR:HG21	1.79	0.64
2:df:281:GLN:N	2:df:281:GLN:OE1	2.30	0.64
2:ds:68:MET:CE	2:dv:84:VAL:HG21	2.28	0.64
2:dv:219:VAL:HG23	2:dv:259:ILE:HD12	1.80	0.64
2:dw:238:ASN:OD1	2:dw:239:PHE:N	2.29	0.64
1:dC:99:LEU:HA	2:eZ:197:LYS:CD	2.13	0.64
2:dX:87:LYS:NZ	2:dX:201:GLU:OE1	2.27	0.64
2:dY:294:LEU:CD2	2:dY:295:VAL:HG23	2.26	0.64
2:eh:61:GLY:O	1:nG:103:ARG:NE	2.31	0.64
2:ev:8:LEU:HD13	1:gJ:83:GLY:HA3	1.79	0.64
2:ev:238:ASN:OD1	2:ev:239:PHE:N	2.30	0.64
1:eB:103:ARG:NE	2:gD:61:GLY:O	2.31	0.64
2:eJ:62:GLN:OE1	2:gu:197:LYS:O	2.15	0.64
2:eL:281:GLN:N	2:eL:281:GLN:OE1	2.30	0.64
2:fn:5:THR:HG22	1:nw:87:ASP:CB	2.26	0.64
2:fC:86:VAL:O	2:fC:202:GLN:N	2.27	0.64
1:gh:103:ARG:NE	2:ih:61:GLY:O	2.31	0.64
2:gE:68:MET:CE	2:gH:84:VAL:HG21	2.28	0.64
2:gT:197:LYS:CD	1:lR:99:LEU:HA	2.13	0.64
2:hk:294:LEU:CD2	2:hk:295:VAL:HG23	2.26	0.64
2:hG:197:LYS:HZ2	1:kx:99:LEU:C	2.06	0.64
2:jc:238:ASN:OD1	2:jc:239:PHE:N	2.30	0.64
2:jz:62:GLN:OE1	2:lj:197:LYS:O	2.15	0.64
1:kh:100:LYS:NZ	1:kh:101:VAL:O	2.31	0.64
2:kE:281:GLN:N	2:kE:281:GLN:OE1	2.30	0.64
2:kR:68:MET:CE	2:kU:84:VAL:HG21	2.28	0.64
2:lF:4:ILE:CD1	1:mT:91:GLU:HA	2.28	0.64
2:lX:167:GLY:N	2:lX:262:ASN:OD1	2.30	0.64
2:mn:197:LYS:O	2:mw:62:GLN:OE1	2.15	0.64
1:mF:99:LEU:CA	2:nn:197:LYS:NZ	2.59	0.64
2:mL:107:GLY:HA2	2:mL:184:TYR:OH	1.98	0.64
2:no:281:GLN:OE1	2:no:281:GLN:N	2.30	0.64
2:nR:86:VAL:O	2:nR:202:GLN:N	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:od:107:GLY:HA2	2:od:184:TYR:OH	1.98	0.64
2:og:61:GLY:O	1:qc:103:ARG:NE	2.31	0.64
2:ou:281:GLN:N	2:ou:281:GLN:OE1	2.30	0.64
2:pu:8:LEU:HD13	1:po:83:GLY:HA3	1.79	0.64
2:pu:78:LYS:NZ	2:pl:58:GLU:OE1	2.27	0.64
2:py:281:GLN:OE1	2:py:281:GLN:N	2.30	0.64
3:qd:65:GLY:O	4:qn:8:TYR:CD2	2.51	0.64
3:qd:66:GLN:CA	4:qn:194:LEU:HD12	2.17	0.64
3:qe:98:ALA:O	3:qe:102:LEU:N	2.27	0.64
3:qi:25:LEU:HD11	6:qq:82:VAL:H	1.62	0.64
6:qy:8:ASP:HA	6:qa:39:ARG:NH1	2.12	0.64
1:aa:100:LYS:CG	1:fw:100:LYS:HE3	2.28	0.64
1:ab:102:GLU:CD	1:me:99:LEU:HA	2.21	0.64
2:ah:61:GLY:O	1:oi:103:ARG:NE	2.31	0.64
2:ai:68:MET:CE	2:al:84:VAL:HG21	2.28	0.64
2:al:68:MET:HE2	2:al:68:MET:HA	1.80	0.64
2:am:197:LYS:O	2:os:62:GLN:OE1	2.15	0.64
2:al:62:GLN:OE1	2:kg:197:LYS:O	2.15	0.64
2:aM:219:VAL:HG23	2:aM:259:ILE:HD12	1.80	0.64
2:bb:294:LEU:CD2	2:bb:295:VAL:HG23	2.26	0.64
1:bc:100:LYS:NZ	1:bc:101:VAL:O	2.31	0.64
1:bX:99:LEU:CD2	1:dx:102:GLU:OE2	2.43	0.64
1:cg:100:LYS:CG	1:lp:100:LYS:HE3	2.28	0.64
2:cm:67:ASP:OD1	1:ct:95:SER:OG	2.13	0.64
2:co:68:MET:CE	2:cr:84:VAL:HG21	2.28	0.64
1:cM:100:LYS:HE3	1:pB:100:LYS:CG	2.28	0.64
1:cV:103:ARG:NE	2:eX:61:GLY:O	2.31	0.64
1:db:99:LEU:CD2	1:eP:102:GLU:OE2	2.43	0.64
1:dl:105:THR:HG21	2:hV:60:ILE:HG13	1.79	0.64
2:dS:4:ILE:CD1	1:ON:91:GLU:HA	2.28	0.64
2:eA:238:ASN:OD1	2:eA:239:PHE:N	2.30	0.64
2:eY:68:MET:CE	2:fb:84:VAL:HG21	2.28	0.64
1:ff:102:GLU:OE1	1:ib:99:LEU:CA	2.28	0.64
2:fk:67:ASP:OD1	1:fr:95:SER:OG	2.13	0.64
2:fl:61:GLY:O	1:gJ:103:ARG:NE	2.31	0.64
1:ff:100:LYS:NZ	1:ff:101:VAL:O	2.31	0.64
2:fr:87:LYS:NZ	2:fr:201:GLU:OE1	2.27	0.64
2:gd:281:GLN:N	2:gd:281:GLN:OE1	2.30	0.64
2:go:4:ILE:CD1	1:hO:91:GLU:HA	2.28	0.64
1:gw:100:LYS:CG	1:pd:100:LYS:HE3	2.28	0.64
1:gX:102:GLU:OE2	1:IS:99:LEU:CD2	2.43	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hd:88:GLU:N	1:hd:88:GLU:OE1	2.29	0.64
1:hp:87:ASP:CB	2:kq:5:THR:HG22	2.26	0.64
1:hq:100:LYS:HE3	1:iQ:100:LYS:CG	2.27	0.64
1:hE:88:GLU:N	1:hE:88:GLU:OE1	2.29	0.64
2:hG:107:GLY:HA2	2:hG:184:TYR:OH	1.98	0.64
2:iA:294:LEU:CD2	2:iA:295:VAL:HG23	2.26	0.64
2:jp:219:VAL:HG23	2:jp:259:ILE:HD12	1.80	0.64
2:jz:8:LEU:HD13	1:qc:83:GLY:HA3	1.79	0.64
2:kp:107:GLY:HA2	2:kp:184:TYR:OH	1.98	0.64
2:kQ:8:LEU:HD13	1:ne:83:GLY:HA3	1.79	0.64
2:ld:4:ILE:CD1	1:mF:91:GLU:HA	2.28	0.64
2:le:61:GLY:O	1:mQ:103:ARG:NE	2.31	0.64
1:mG:87:ASP:CB	2:os:5:THR:HG22	2.26	0.64
1:mH:100:LYS:HE3	1:ol:100:LYS:CG	2.27	0.64
2:mO:68:MET:HE2	2:mO:68:MET:HA	1.80	0.64
1:ns:100:LYS:NZ	1:ns:101:VAL:O	2.31	0.64
2:od:68:MET:CE	2:og:84:VAL:HG21	2.28	0.64
2:pN:238:ASN:OD1	2:pN:239:PHE:N	2.30	0.64
2:pW:238:ASN:OD1	2:pW:239:PHE:N	2.30	0.64
3:qi:66:GLN:C	4:qo:8:TYR:CD2	2.76	0.64
6:qq:39:ARG:NH1	6:qM:8:ASP:HA	2.12	0.64
6:qs:133:ASP:CG	5:qL:42:PRO:HD2	2.22	0.64
5:qt:255:VAL:HG12	5:qv:263:ALA:CB	2.27	0.64
6:qC:112:LEU:CG	6:qE:58:LEU:HD12	2.09	0.64
1:aF:100:LYS:HE3	1:mR:100:LYS:CG	2.27	0.63
1:aS:87:ASP:CB	2:iL:5:THR:HG22	2.26	0.63
1:bc:102:GLU:OE2	1:bi:99:LEU:HG	1.74	0.63
2:bp:294:LEU:CD2	2:bp:295:VAL:HG23	2.26	0.63
1:bE:100:LYS:NZ	1:bE:101:VAL:O	2.31	0.63
1:bR:100:LYS:NZ	1:bR:101:VAL:O	2.31	0.63
2:cG:294:LEU:CD2	2:cG:295:VAL:HG23	2.26	0.63
1:cI:99:LEU:CD1	1:pF:102:GLU:CD	2.60	0.63
2:cT:219:VAL:HG23	2:cT:259:ILE:HD12	1.80	0.63
2:dc:4:ILE:CD1	1:eE:91:GLU:HA	2.28	0.63
1:dj:100:LYS:NZ	1:dj:101:VAL:O	2.31	0.63
2:dU:68:MET:CE	2:dX:84:VAL:HG21	2.28	0.63
2:ei:107:GLY:HA2	2:ei:184:TYR:OH	1.98	0.63
1:es:63:VAL:HG13	1:es:74:ASP:CB	2.26	0.63
2:fa:86:VAL:O	2:fa:202:GLN:N	2.27	0.63
2:gF:281:GLN:N	2:gF:281:GLN:OE1	2.30	0.63
2:gG:86:VAL:O	2:gG:202:GLN:N	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gX:102:GLU:OE1	1:lS:99:LEU:HG	1.95	0.63
1:hd:99:LEU:CD2	1:lM:102:GLU:OE2	2.43	0.63
2:hk:197:LYS:O	2:kC:62:GLN:OE1	2.15	0.63
2:hu:197:LYS:CD	1:hD:99:LEU:CA	2.68	0.63
2:iv:61:GLY:O	1:jT:103:ARG:NE	2.31	0.63
2:iK:107:GLY:HA2	2:iK:184:TYR:OH	1.98	0.63
1:jg:91:GLU:HA	2:lr:4:ILE:CD1	2.28	0.63
2:jm:107:GLY:HA2	2:jm:184:TYR:OH	1.98	0.63
2:jE:294:LEU:CD2	2:jE:295:VAL:HG23	2.26	0.63
2:jO:68:MET:CE	2:jR:84:VAL:HG21	2.28	0.63
2:kc:60:ILE:HG22	1:ln:105:THR:HG21	1.57	0.63
2:ko:104:GLN:HE22	5:qH:27:GLY:CA	1.96	0.63
2:kt:294:LEU:CD2	2:kt:295:VAL:HG23	2.26	0.63
2:kE:60:ILE:HG13	1:lO:105:THR:HG21	1.79	0.63
2:kG:87:LYS:NZ	2:kG:201:GLU:OE1	2.27	0.63
1:lk:100:LYS:NZ	1:lk:101:VAL:O	2.31	0.63
2:lv:167:GLY:N	2:lv:262:ASN:OD1	2.30	0.63
2:IX:86:VAL:O	2:IX:202:GLN:N	2.27	0.63
2:IY:219:VAL:HG23	2:IY:259:ILE:HD12	1.80	0.63
2:lZ:294:LEU:CD2	2:lZ:295:VAL:HG23	2.26	0.63
2:mj:107:GLY:HA2	2:mj:184:TYR:OH	1.98	0.63
2:mA:68:MET:HA	2:mA:68:MET:HE2	1.80	0.63
2:mJ:4:ILE:CD1	1:ol:91:GLU:HA	2.28	0.63
2:mM:281:GLN:OE1	2:mM:281:GLN:N	2.30	0.63
2:mN:167:GLY:N	2:mN:262:ASN:OD1	2.30	0.63
1:ne:100:LYS:NZ	1:ne:101:VAL:O	2.31	0.63
2:nq:68:MET:HE2	2:nq:68:MET:HA	1.80	0.63
1:oQ:88:GLU:OE1	1:oQ:88:GLU:N	2.29	0.63
3:qe:63:GLN:NE2	4:ql:221:ASP:OD1	2.24	0.63
3:qe:66:GLN:C	4:qm:194:LEU:HD11	2.21	0.63
1:an:83:GLY:HA3	2:oc:8:LEU:HD13	1.79	0.63
1:aq:91:GLU:HA	2:ko:4:ILE:CD1	2.28	0.63
1:aD:91:GLU:HA	2:iW:4:ILE:CD1	2.28	0.63
1:aO:103:ARG:NE	2:iX:61:GLY:O	2.31	0.63
2:aW:61:GLY:O	1:iP:103:ARG:NE	2.31	0.63
1:br:100:LYS:CG	1:dC:100:LYS:HE3	2.27	0.63
2:cD:281:GLN:N	2:cD:281:GLN:OE1	2.30	0.63
2:el:68:MET:HE2	2:el:68:MET:HA	1.80	0.63
2:el:219:VAL:HG23	2:el:259:ILE:HD12	1.80	0.63
2:em:294:LEU:CD2	2:em:295:VAL:HG23	2.26	0.63
2:eK:107:GLY:HA2	2:eK:184:TYR:OH	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eY:107:GLY:HA2	2:eY:184:TYR:OH	1.98	0.63
2:fq:197:LYS:O	2:nA:62:GLN:OE1	2.15	0.63
1:fH:105:THR:HG21	2:my:60:ILE:HG13	1.79	0.63
2:fO:107:GLY:HA2	2:fO:184:TYR:OH	1.98	0.63
2:fP:281:GLN:N	2:fP:281:GLN:OE1	2.30	0.63
2:fR:219:VAL:HG23	2:fR:259:ILE:HD12	1.80	0.63
2:gf:219:VAL:HG23	2:gf:259:ILE:HD12	1.80	0.63
2:gp:58:GLU:OE1	2:hT:78:LYS:NZ	2.27	0.63
2:gq:107:GLY:HA2	2:gq:184:TYR:OH	1.98	0.63
2:gt:68:MET:HA	2:gt:68:MET:HE2	1.80	0.63
2:gt:171:TYR:HH	2:gt:175:THR:HG1	1.43	0.63
1:gB:88:GLU:OE1	1:gB:88:GLU:N	2.29	0.63
2:gW:197:LYS:O	2:lU:62:GLN:OE1	2.15	0.63
2:hh:60:ILE:HG13	1:mq:105:THR:HG21	1.79	0.63
2:hs:189:LYS:NZ	5:qD:30:LYS:O	2.30	0.63
2:hX:108:ARG:HB3	5:qz:176:ASN:HD21	1.63	0.63
2:hJ:68:MET:HA	2:hJ:68:MET:HE2	1.80	0.63
2:hX:68:MET:HE2	2:hX:68:MET:HA	1.80	0.63
2:iv:238:ASN:OD1	2:iv:239:PHE:N	2.30	0.63
2:iL:281:GLN:OE1	2:iL:281:GLN:N	2.30	0.63
1:jd:103:ARG:NE	2:jl:61:GLY:O	2.31	0.63
2:jn:5:THR:HG22	1:lo:87:ASP:CB	2.26	0.63
2:jQ:294:LEU:CD2	2:jQ:295:VAL:HG23	2.26	0.63
1:jR:100:LYS:NZ	1:jR:101:VAL:O	2.31	0.63
1:jF:100:LYS:NZ	1:jF:101:VAL:O	2.31	0.63
2:jM:98:VAL:HG11	2:jR:50:LEU:HD23	1.77	0.63
2:jR:68:MET:HA	2:jR:68:MET:HE2	1.80	0.63
1:jT:100:LYS:NZ	1:jT:101:VAL:O	2.31	0.63
2:kb:238:ASN:OD1	2:kb:239:PHE:N	2.30	0.63
2:kG:68:MET:HA	2:kG:68:MET:HE2	1.80	0.63
1:lA:105:THR:HG21	2:oG:60:ILE:HG13	1.79	0.63
2:lG:62:GLN:OE1	2:nd:197:LYS:O	2.15	0.63
2:lK:219:VAL:HG23	2:lK:259:ILE:HD12	1.80	0.63
1:lS:88:GLU:N	1:lS:88:GLU:OE1	2.29	0.63
2:mK:61:GLY:O	1:ow:103:ARG:NE	2.31	0.63
2:mZ:107:GLY:HA2	2:mZ:184:TYR:OH	1.98	0.63
2:nl:4:ILE:CD1	1:oz:91:GLU:HA	2.28	0.63
1:nV:102:GLU:OE1	2:od:197:LYS:NZ	2.30	0.63
2:op:4:ILE:CD1	1:pR:91:GLU:HA	2.28	0.63
2:ou:68:MET:HA	2:ou:68:MET:HE2	1.80	0.63
2:qb:238:ASN:OD1	2:qb:239:PHE:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qe:66:GLN:O	4:qm:10:GLN:CG	2.46	0.63
3:qf:66:GLN:O	4:ql:10:GLN:CD	2.40	0.63
4:ql:177:MET:HB2	4:qm:249:PHE:HB2	1.80	0.63
5:qx:42:PRO:HD2	6:qC:133:ASP:CG	2.22	0.63
5:qB:252:LEU:CD2	6:qE:126:GLN:CB	2.58	0.63
6:qG:112:LEU:CG	6:qI:58:LEU:HD12	2.09	0.63
5:qJ:252:LEU:HD22	6:qM:126:GLN:HG3	1.69	0.63
2:al:219:VAL:HG23	2:al:259:ILE:HD12	1.80	0.63
1:aT:100:LYS:HE3	1:pn:100:LYS:CG	2.27	0.63
1:aU:88:GLU:N	1:aU:88:GLU:OE1	2.29	0.63
2:bk:8:LEU:HD13	1:dx:83:GLY:HA3	1.79	0.63
2:bC:68:MET:HA	2:bC:68:MET:HE2	1.80	0.63
1:bE:103:ARG:NE	2:hT:61:GLY:O	2.31	0.63
1:bJ:100:LYS:HE3	1:lN:100:LYS:CG	2.27	0.63
2:bQ:92:GLU:HB3	5:qp:44:LYS:HE2	1.80	0.63
1:bU:91:GLU:HA	2:iI:4:ILE:CD1	2.28	0.63
1:cf:103:ARG:NE	2:iJ:61:GLY:O	2.31	0.63
1:ck:100:LYS:HE3	1:ll:100:LYS:CG	2.27	0.63
2:cn:62:GLN:OE1	2:iA:197:LYS:O	2.15	0.63
2:cn:78:LYS:NZ	2:pu:58:GLU:OE1	2.27	0.63
1:cz:99:LEU:HG	1:pm:102:GLU:OE2	1.74	0.63
2:cF:68:MET:HA	2:cF:68:MET:HE2	1.80	0.63
1:cI:100:LYS:CG	1:pF:100:LYS:HE3	2.27	0.63
2:dh:274:ALA:HB1	2:dh:297:VAL:HG21	1.81	0.63
2:dJ:219:VAL:HG23	2:dJ:259:ILE:HD12	1.80	0.63
2:dK:294:LEU:CD2	2:dK:295:VAL:HG23	2.26	0.63
1:ec:91:GLU:HA	2:eu:4:ILE:CD1	2.28	0.63
1:eQ:100:LYS:CG	1:iG:100:LYS:HE3	2.27	0.63
2:fA:107:GLY:HA2	2:fA:184:TYR:OH	1.98	0.63
2:fD:274:ALA:HB1	2:fD:297:VAL:HG21	1.81	0.63
2:fE:294:LEU:CD2	2:fE:295:VAL:HG23	2.26	0.63
1:fL:101:VAL:CG1	2:lU:198:GLU:CD	2.58	0.63
2:fN:62:GLN:OE1	2:lZ:197:LYS:O	2.15	0.63
1:gh:100:LYS:NZ	1:gh:101:VAL:O	2.31	0.63
1:gh:102:GLU:OE2	1:if:99:LEU:CD2	2.43	0.63
1:gh:102:GLU:OE1	1:if:99:LEU:HG	1.95	0.63
2:gp:61:GLY:O	1:hZ:103:ARG:NE	2.31	0.63
1:hb:87:ASP:CB	2:lI:5:THR:HG22	2.26	0.63
2:hg:107:GLY:HA2	2:hg:184:TYR:OH	1.98	0.63
1:hl:100:LYS:NZ	1:hl:101:VAL:O	2.31	0.63
1:ho:91:GLU:HA	2:hF:4:ILE:CD1	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ht:107:GLY:HA2	2:ht:184:TYR:OH	1.98	0.63
1:is:100:LYS:HE3	1:oj:100:LYS:CG	2.28	0.63
2:iw:68:MET:CE	2:iz:84:VAL:HG21	2.28	0.63
2:jb:68:MET:HE2	2:jb:68:MET:HA	1.81	0.63
2:jy:4:ILE:CD1	1:kZ:91:GLU:HA	2.28	0.63
2:jB:281:GLN:N	2:jB:281:GLN:OE1	2.30	0.63
1:jZ:99:LEU:CD2	1:ly:102:GLU:OE2	2.43	0.63
2:kU:274:ALA:HB1	2:kU:297:VAL:HG21	1.81	0.63
2:li:87:LYS:NZ	2:li:201:GLU:OE1	2.27	0.63
2:lH:107:GLY:HA2	2:lH:184:TYR:OH	1.98	0.63
2:lK:68:MET:HA	2:lK:68:MET:HE2	1.81	0.63
1:ma:100:LYS:NZ	1:ma:101:VAL:O	2.31	0.63
2:mm:87:LYS:NZ	2:mm:201:GLU:OE1	2.27	0.63
2:mm:274:ALA:HB1	2:mm:297:VAL:HG21	1.81	0.63
2:mJ:197:LYS:HZ2	1:ow:100:LYS:HD2	1.64	0.63
2:mK:62:GLN:OE1	2:ov:197:LYS:O	2.15	0.63
2:mP:294:LEU:CD2	2:mP:295:VAL:HG23	2.26	0.63
2:nq:87:LYS:NZ	2:nq:201:GLU:OE1	2.27	0.63
1:ns:83:GLY:HA3	2:oe:8:LEU:HD13	1.79	0.63
2:pj:167:GLY:N	2:pj:262:ASN:OD1	2.30	0.63
2:pL:167:GLY:N	2:pL:262:ASN:OD1	2.30	0.63
1:pO:100:LYS:NZ	1:pO:101:VAL:O	2.31	0.63
4:qj:37:ILE:HD11	4:qo:218:LEU:CD1	2.28	0.63
4:qj:218:LEU:CD1	4:qk:37:ILE:HD11	2.28	0.63
4:qm:177:MET:HB2	4:qn:249:PHE:HB2	1.80	0.63
1:ad:87:ASP:CB	2:oe:5:THR:HG22	2.26	0.63
1:af:88:GLU:N	1:af:88:GLU:OE1	2.29	0.63
1:aB:100:LYS:CG	1:mV:100:LYS:HE3	2.28	0.63
2:aI:61:GLY:O	1:kh:103:ARG:NE	2.31	0.63
1:aO:100:LYS:HD2	2:iW:197:LYS:HZ2	1.64	0.63
2:ba:171:TYR:OH	2:ba:175:THR:OG1	2.12	0.63
2:bn:86:VAL:O	2:bn:202:GLN:N	2.27	0.63
2:bC:274:ALA:HB1	2:bC:297:VAL:HG21	1.81	0.63
1:bK:88:GLU:N	1:bK:88:GLU:OE1	2.29	0.63
2:bL:184:TYR:HE2	5:qr:165:PRO:HG3	1.62	0.63
2:bM:60:ILE:CG2	1:hB:105:THR:CG2	2.62	0.63
2:bM:191:SER:OG	2:gT:186:GLU:O	2.08	0.63
2:cs:197:LYS:O	2:pu:62:GLN:OE1	2.15	0.63
1:cu:100:LYS:CG	1:nL:100:LYS:HE3	2.28	0.63
2:cC:61:GLY:C	1:pb:103:ARG:HG3	2.24	0.63
2:cR:281:GLN:OE1	2:cR:281:GLN:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cV:100:LYS:NZ	1:cV:101:VAL:O	2.31	0.63
1:cY:99:LEU:CA	2:dG:197:LYS:NZ	2.59	0.63
2:dh:219:VAL:HG23	2:dh:259:ILE:HD12	1.80	0.63
1:do:100:LYS:HE3	1:ki:100:LYS:CG	2.27	0.63
2:du:86:VAL:O	2:du:202:GLN:N	2.27	0.63
1:eq:91:GLU:HA	2:gC:4:ILE:CD1	2.28	0.63
2:ex:60:ILE:HG13	1:nI:105:THR:HG21	1.79	0.63
2:fm:53:PHE:CE1	2:fp:84:VAL:HG22	2.34	0.63
1:gn:99:LEU:HG	1:hZ:102:GLU:OE1	1.95	0.63
1:gA:100:LYS:HE3	1:oZ:100:LYS:CG	2.28	0.63
2:gE:107:GLY:HA2	2:gE:184:TYR:OH	1.98	0.63
2:hU:53:PHE:CE1	2:hX:84:VAL:HG22	2.34	0.63
2:il:219:VAL:HG23	2:il:259:ILE:HD12	1.80	0.63
2:iv:62:GLN:OE1	2:jS:197:LYS:O	2.15	0.63
2:jM:4:ILE:CD1	1:pD:91:GLU:HA	2.28	0.63
2:jP:281:GLN:N	2:jP:281:GLN:OE1	2.30	0.63
1:jU:102:GLU:OE1	2:kc:197:LYS:NZ	2.29	0.63
2:kc:107:GLY:HA2	2:kc:184:TYR:OH	1.98	0.63
1:kx:91:GLU:HA	2:kP:4:ILE:CD1	2.28	0.63
2:kG:219:VAL:HG23	2:kG:259:ILE:HD12	1.80	0.63
1:kW:102:GLU:OE2	1:mW:99:LEU:CD2	2.43	0.63
2:li:219:VAL:HG23	2:li:259:ILE:HD12	1.80	0.63
2:mx:107:GLY:HA2	2:mx:184:TYR:OH	1.98	0.63
2:mB:197:LYS:O	2:oE:62:GLN:OE1	2.15	0.63
1:ok:105:THR:HG21	2:oU:60:ILE:HG13	1.79	0.63
2:oE:184:TYR:HH	2:oE:204:PHE:HD1	1.41	0.63
2:oI:274:ALA:HB1	2:oI:297:VAL:HG21	1.81	0.63
2:ph:107:GLY:HA2	2:ph:184:TYR:OH	1.98	0.63
2:py:274:ALA:HB1	2:py:297:VAL:HG21	1.81	0.63
1:pA:103:ARG:NE	2:pI:61:GLY:O	2.31	0.63
3:qg:66:GLN:HB2	4:qk:8:TYR:O	1.98	0.63
4:qk:218:LEU:CD1	4:ql:37:ILE:HD11	2.28	0.63
5:qB:42:PRO:HD2	6:qG:133:ASP:CG	2.23	0.63
2:ai:197:LYS:HZ2	1:nh:99:LEU:C	2.06	0.63
2:al:274:ALA:HB1	2:al:297:VAL:HG21	1.81	0.63
2:aw:60:ILE:HG13	1:hN:105:THR:HG21	1.79	0.63
2:aN:197:LYS:O	2:iX:62:GLN:OE1	2.15	0.63
2:aX:53:PHE:CE1	2:ba:84:VAL:HG22	2.34	0.63
2:ba:274:ALA:HB1	2:ba:297:VAL:HG21	1.81	0.63
2:by:8:LEU:HD13	1:hZ:83:GLY:HA3	1.79	0.63
2:by:61:GLY:O	1:dj:103:ARG:NE	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bD:197:LYS:O	2:hT:62:GLN:OE1	2.15	0.63
2:bP:68:MET:HA	2:bP:68:MET:HE2	1.81	0.63
2:cr:274:ALA:HB1	2:cr:297:VAL:HG21	1.81	0.63
1:ct:100:LYS:NZ	1:ct:101:VAL:O	2.31	0.63
1:cw:91:GLU:HA	2:cO:4:ILE:CD1	2.28	0.63
2:cA:67:ASP:OD1	1:cH:95:SER:OG	2.13	0.63
2:cQ:107:GLY:HA2	2:cQ:184:TYR:OH	1.98	0.63
1:cW:100:LYS:CG	1:fi:100:LYS:HE3	2.28	0.63
1:dk:100:LYS:CG	1:km:100:LYS:HE3	2.28	0.63
1:dL:103:ARG:NE	2:pg:61:GLY:O	2.31	0.63
1:dZ:100:LYS:NZ	1:dZ:101:VAL:O	2.31	0.63
2:eg:4:ILE:CD1	1:nv:91:GLU:HA	2.28	0.63
2:ek:86:VAL:O	2:ek:202:GLN:N	2.27	0.63
2:em:197:LYS:O	2:ev:62:GLN:OE1	2.15	0.63
2:ez:274:ALA:HB1	2:ez:297:VAL:HG21	1.81	0.63
2:eA:197:LYS:O	2:gD:62:GLN:OE1	2.15	0.63
1:eP:100:LYS:NZ	1:eP:101:VAL:O	2.31	0.63
2:fk:4:ILE:CD1	1:gy:91:GLU:HA	2.28	0.63
2:fz:61:GLY:O	1:ns:103:ARG:NE	2.31	0.63
2:fM:4:ILE:CD1	1:lP:91:GLU:HA	2.28	0.63
2:fr:274:ALA:HB1	2:fr:297:VAL:HG21	1.81	0.63
1:fV:105:THR:HG21	2:nC:60:ILE:HG13	1.79	0.63
1:fW:91:GLU:HA	2:ig:4:ILE:CD1	2.28	0.63
2:gb:8:LEU:HD13	1:in:83:GLY:HA3	1.79	0.63
1:gj:105:THR:HG21	2:gT:60:ILE:HG13	1.79	0.63
2:gQ:4:ILE:CD1	1:ic:91:GLU:HA	2.28	0.63
2:gS:53:PHE:CE1	2:gV:84:VAL:HG22	2.34	0.63
2:gV:68:MET:HE2	2:gV:68:MET:HA	1.80	0.63
2:gV:274:ALA:HB1	2:gV:297:VAL:HG21	1.81	0.63
1:ha:105:THR:CG2	2:kD:60:ILE:CG2	2.62	0.63
2:hg:60:ILE:CG2	1:lB:105:THR:CG2	2.62	0.63
1:hr:99:LEU:HG	1:ku:102:GLU:OE2	1.74	0.63
2:hw:68:MET:HE2	2:hw:68:MET:HA	1.80	0.63
1:hy:100:LYS:HG2	1:hE:100:LYS:HZ1	1.61	0.63
1:hy:102:GLU:OE2	1:hE:99:LEU:CD2	2.43	0.63
1:hL:100:LYS:NZ	1:hL:101:VAL:O	2.31	0.63
1:ia:100:LYS:CG	1:nx:100:LYS:HE3	2.28	0.63
2:il:87:LYS:NZ	2:il:201:GLU:OE1	2.27	0.63
2:iu:4:ILE:CD1	1:jI:91:GLU:HA	2.28	0.63
2:iK:68:MET:CE	2:iN:84:VAL:HG21	2.27	0.63
2:iY:107:GLY:HA2	2:iY:184:TYR:OH	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jj:88:GLU:N	1:jj:88:GLU:OE1	2.29	0.63
1:jx:99:LEU:CD2	1:lk:102:GLU:OE2	2.43	0.63
2:ja:61:GLY:C	1:kz:103:ARG:HG3	2.24	0.63
2:jD:274:ALA:HB1	2:jD:297:VAL:HG21	1.81	0.63
1:jJ:87:ASP:CB	2:pK:5:THR:HG22	2.26	0.63
1:jL:100:LYS:HZ1	1:pO:100:LYS:CG	2.06	0.63
2:jN:134:GLN:OE1	2:jN:134:GLN:N	2.30	0.63
2:jO:107:GLY:HA2	2:jO:184:TYR:OH	1.98	0.63
2:ka:67:ASP:OD1	1:kh:95:SER:OG	2.13	0.63
2:ko:67:ASP:OD1	1:ku:95:SER:OG	2.13	0.63
1:kW:100:LYS:NZ	1:kW:101:VAL:O	2.31	0.63
2:lf:68:MET:CE	2:li:84:VAL:HG21	2.28	0.63
2:mw:134:GLN:OE1	2:mw:134:GLN:N	2.30	0.63
2:my:5:THR:HG22	1:oA:87:ASP:CB	2.26	0.63
2:mA:274:ALA:HB1	2:mA:297:VAL:HG21	1.81	0.63
2:mO:219:VAL:HG23	2:mO:259:ILE:HD12	1.80	0.63
2:nn:53:PHE:CE1	2:nq:84:VAL:HG22	2.34	0.63
2:nq:274:ALA:HB1	2:nq:297:VAL:HG21	1.81	0.63
2:nE:274:ALA:HB1	2:nE:297:VAL:HG21	1.81	0.63
2:nP:68:MET:CE	2:nS:84:VAL:HG21	2.28	0.63
2:nS:219:VAL:HG23	2:nS:259:ILE:HD12	1.80	0.63
2:og:68:MET:HE2	2:og:68:MET:HA	1.80	0.63
2:og:219:VAL:HG23	2:og:259:ILE:HD12	1.80	0.63
2:oq:62:GLN:OE1	2:qb:197:LYS:O	2.15	0.63
1:ow:83:GLY:HA3	2:pW:8:LEU:HD13	1.79	0.63
1:ox:102:GLU:OE1	2:oF:197:LYS:NZ	2.30	0.63
2:py:68:MET:HA	2:py:68:MET:HE2	1.80	0.63
2:pL:86:VAL:O	2:pL:202:GLN:N	2.27	0.63
3:qh:66:GLN:O	4:qj:10:GLN:CG	2.47	0.63
3:qi:84:TYR:CD1	6:qM:20:GLU:OE2	2.48	0.63
4:ql:218:LEU:CD1	4:qm:37:ILE:HD11	2.28	0.63
6:qq:126:GLN:CB	5:qL:252:LEU:CD2	2.58	0.63
5:qt:42:PRO:HD2	6:qy:133:ASP:CG	2.23	0.63
5:qD:139:LEU:HD11	5:qD:189:ILE:HG13	1.80	0.63
6:qI:8:ASP:HA	6:qK:39:ARG:NH1	2.12	0.63
1:bf:91:GLU:HA	2:dq:4:ILE:CD1	2.28	0.63
2:bo:274:ALA:HB1	2:bo:297:VAL:HG21	1.81	0.63
2:bA:281:GLN:N	2:bA:281:GLN:OE1	2.30	0.63
2:bN:281:GLN:N	2:bN:281:GLN:OE1	2.30	0.63
2:cb:5:THR:HG22	1:iF:87:ASP:CB	2.26	0.63
2:cn:58:GLU:OE1	2:iv:78:LYS:NZ	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cv:99:LEU:CD1	1:dN:60:ARG:NH1	2.25	0.63
2:cA:4:ILE:CD1	1:pb:91:GLU:HA	2.28	0.63
2:cT:274:ALA:HB1	2:cT:297:VAL:HG21	1.81	0.63
1:dD:99:LEU:HG	1:fd:102:GLU:OE1	1.95	0.63
1:dZ:102:GLU:OE1	1:nM:99:LEU:HG	1.95	0.63
2:eh:8:LEU:HD13	1:eB:83:GLY:HA3	1.79	0.63
2:ei:61:GLY:C	1:nv:103:ARG:HG3	2.24	0.63
1:en:103:ARG:NE	2:ev:61:GLY:O	2.31	0.63
2:ez:68:MET:HA	2:ez:68:MET:HE2	1.81	0.63
2:fq:294:LEU:CD2	2:fq:295:VAL:HG23	2.26	0.63
2:fD:68:MET:HE2	2:fD:68:MET:HA	1.80	0.63
2:fE:197:LYS:O	2:mi:62:GLN:OE1	2.15	0.63
1:fI:103:ARG:HG3	2:gc:61:GLY:C	2.24	0.63
1:fK:100:LYS:HE3	1:kv:100:LYS:CG	2.27	0.63
2:fP:5:THR:HG22	1:fX:87:ASP:CB	2.26	0.63
2:fR:68:MET:HA	2:fR:68:MET:HE2	1.81	0.63
2:gf:68:MET:HA	2:gf:68:MET:HE2	1.80	0.63
2:gq:53:PHE:CE1	2:gt:84:VAL:HG22	2.34	0.63
2:gq:68:MET:CE	2:gt:84:VAL:HG21	2.28	0.63
1:gJ:100:LYS:NZ	1:gJ:101:VAL:O	2.31	0.63
2:ht:53:PHE:CE1	2:hw:84:VAL:HG22	2.34	0.63
1:hy:100:LYS:NZ	1:hy:101:VAL:O	2.31	0.63
2:iu:197:LYS:HZ2	1:jT:100:LYS:HD2	1.64	0.63
2:iz:274:ALA:HB1	2:iz:297:VAL:HG21	1.81	0.63
2:jb:274:ALA:HB1	2:jb:297:VAL:HG21	1.81	0.63
2:jp:274:ALA:HB1	2:jp:297:VAL:HG21	1.81	0.63
1:ju:103:ARG:HG3	2:pX:61:GLY:C	2.24	0.63
1:jv:87:ASP:CB	2:lg:5:THR:HG22	2.26	0.63
2:jN:61:GLY:O	1:pO:103:ARG:NE	2.31	0.63
2:kc:53:PHE:CE1	2:kf:84:VAL:HG22	2.34	0.63
2:kD:107:GLY:HA2	2:kD:184:TYR:OH	1.98	0.63
2:kU:68:MET:HA	2:kU:68:MET:HE2	1.80	0.63
1:ll:102:GLU:OE1	2:lt:197:LYS:NZ	2.30	0.63
2:lH:53:PHE:CE1	2:lK:84:VAL:HG22	2.34	0.63
2:lV:107:GLY:HA2	2:lV:184:TYR:OH	1.98	0.63
1:mr:103:ARG:HG3	2:of:61:GLY:C	2.24	0.63
2:nB:53:PHE:CE1	2:nE:84:VAL:HG22	2.34	0.63
2:nP:53:PHE:CE1	2:nS:84:VAL:HG22	2.34	0.63
2:nP:107:GLY:HA2	2:nP:184:TYR:OH	1.98	0.63
2:or:53:PHE:CE1	2:ou:84:VAL:HG22	2.34	0.63
2:os:281:GLN:N	2:os:281:GLN:OE1	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oF:68:MET:CE	2:oI:84:VAL:HG21	2.28	0.63
2:pf:188:MET:O	2:pf:202:GLN:NE2	2.32	0.63
2:pk:87:LYS:NZ	2:pk:201:GLU:OE1	2.27	0.63
2:pt:188:MET:O	2:pt:202:GLN:NE2	2.32	0.63
2:qa:274:ALA:HB1	2:qa:297:VAL:HG21	1.81	0.63
3:qg:66:GLN:O	4:qk:10:GLN:HG3	1.97	0.63
3:qh:67:ARG:H	4:qj:194:LEU:CD1	1.86	0.63
4:qn:218:LEU:CD1	4:qo:37:ILE:HD11	2.28	0.63
5:qp:398:TRP:CE2	5:qr:405:ILE:HD12	2.34	0.63
5:qz:398:TRP:CE2	5:qB:405:ILE:HD12	2.34	0.63
1:aP:100:LYS:CG	1:pr:100:LYS:HE3	2.27	0.63
1:bc:83:GLY:HA3	2:iJ:8:LEU:HD13	1.79	0.63
2:bj:188:MET:O	2:bj:202:GLN:NE2	2.32	0.63
2:bl:53:PHE:CE1	2:bo:84:VAL:HG22	2.34	0.63
2:bC:141:HIS:N	2:bC:148:ASP:O	2.32	0.63
2:bQ:95:ASN:CG	5:qp:47:ARG:HH11	1.94	0.63
2:cQ:53:PHE:CE1	2:cT:84:VAL:HG22	2.34	0.63
2:dq:67:ASP:OD1	1:dx:95:SER:OG	2.13	0.63
2:dF:78:LYS:NZ	2:pg:58:GLU:OE1	2.27	0.63
2:dV:197:LYS:CD	1:nL:99:LEU:CA	2.69	0.63
2:eh:62:GLN:OE1	2:nF:197:LYS:O	2.15	0.63
1:ep:105:THR:HG21	2:pi:60:ILE:HG13	1.79	0.63
2:ew:53:PHE:CE1	2:ez:84:VAL:HG22	2.34	0.63
2:ew:68:MET:CE	2:ez:84:VAL:HG21	2.28	0.63
1:eB:100:LYS:NZ	1:eB:101:VAL:O	2.31	0.63
2:eM:86:VAL:O	2:eM:202:GLN:N	2.27	0.63
1:eV:88:GLU:OE1	1:eV:88:GLU:N	2.29	0.63
2:fO:197:LYS:NZ	1:ha:99:LEU:CA	2.59	0.63
2:gt:219:VAL:HG23	2:gt:259:ILE:HD12	1.80	0.63
2:gC:188:MET:O	2:gC:202:GLN:NE2	2.32	0.63
2:he:4:ILE:CD1	1:lB:91:GLU:HA	2.28	0.63
1:hz:102:GLU:OE1	2:hG:197:LYS:NZ	2.30	0.63
2:hF:31:TYR:CE1	5:qv:178:PRO:CG	2.82	0.63
2:hG:68:MET:CE	2:hJ:84:VAL:HG21	2.28	0.63
2:jA:53:PHE:CE1	2:jD:84:VAL:HG22	2.34	0.63
2:jO:53:PHE:CE1	2:jR:84:VAL:HG22	2.34	0.63
2:jQ:86:VAL:O	2:jQ:202:GLN:N	2.27	0.63
1:jU:100:LYS:CG	1:pT:100:LYS:HE3	2.28	0.63
1:jY:100:LYS:HE3	1:pP:100:LYS:CG	2.28	0.63
2:kr:86:VAL:O	2:kr:202:GLN:N	2.27	0.63
2:kR:53:PHE:CE1	2:kU:84:VAL:HG22	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IY:68:MET:HE2	2:IY:68:MET:HA	1.80	0.63
2:mj:53:PHE:CE1	2:mm:84:VAL:HG22	2.34	0.63
2:mk:5:THR:HG22	1:ms:87:ASP:CB	2.26	0.63
2:mw:8:LEU:HD13	1:oK:83:GLY:HA3	1.79	0.63
2:mL:53:PHE:CE1	2:mO:84:VAL:HG22	2.34	0.63
1:nk:100:LYS:HZ1	1:oK:100:LYS:CD	2.12	0.63
2:nn:68:MET:CE	2:nq:84:VAL:HG21	2.28	0.63
1:nU:100:LYS:NZ	1:nU:101:VAL:O	2.31	0.63
2:od:53:PHE:CE1	2:og:84:VAL:HG22	2.34	0.63
2:op:188:MET:O	2:op:202:GLN:NE2	2.32	0.63
3:qe:19:ARG:NH1	3:qf:135:GLY:O	2.32	0.63
3:qe:61:ASP:CB	4:qm:33:SER:HB2	2.27	0.63
4:qj:245:ASP:HB2	4:qo:89:VAL:CG2	2.22	0.63
5:qB:139:LEU:HD11	5:qB:189:ILE:HG13	1.80	0.63
5:qH:42:PRO:HD2	6:qM:133:ASP:CG	2.22	0.63
2:ai:53:PHE:CE1	2:al:84:VAL:HG22	2.34	0.63
2:ai:60:ILE:CG2	1:nX:105:THR:CG2	2.62	0.63
2:ai:107:GLY:HA2	2:ai:184:TYR:OH	1.98	0.63
2:av:68:MET:CE	2:ay:84:VAL:HG21	2.28	0.63
2:aJ:61:GLY:C	1:jW:103:ARG:HG3	2.24	0.63
2:bl:191:SER:OG	2:iZ:186:GLU:O	2.08	0.63
2:bm:60:ILE:HG13	1:iR:105:THR:HG21	1.79	0.63
2:ds:53:PHE:CE1	2:dv:84:VAL:HG22	2.34	0.63
2:dv:68:MET:HE2	2:dv:68:MET:HA	1.80	0.63
1:dB:87:ASP:CB	2:eZ:5:THR:HG22	2.26	0.63
2:dE:4:ILE:CD1	1:eS:91:GLU:HA	2.28	0.63
2:dE:188:MET:O	2:dE:202:GLN:NE2	2.32	0.63
2:dG:53:PHE:CE1	2:dJ:84:VAL:HG22	2.34	0.63
1:dQ:100:LYS:HE3	1:jG:100:LYS:CG	2.27	0.63
2:ew:107:GLY:HA2	2:ew:184:TYR:OH	1.98	0.63
2:eI:188:MET:O	2:eI:202:GLN:NE2	2.32	0.63
2:eN:141:HIS:N	2:eN:148:ASP:O	2.32	0.63
2:eN:274:ALA:HB1	2:eN:297:VAL:HG21	1.81	0.63
1:fT:100:LYS:NZ	1:fT:101:VAL:O	2.31	0.63
2:gf:141:HIS:N	2:gf:148:ASP:O	2.32	0.63
2:gH:274:ALA:HB1	2:gH:297:VAL:HG21	1.81	0.63
2:gR:8:LEU:HD13	1:ma:83:GLY:HA3	1.79	0.63
2:gU:167:GLY:N	2:gU:262:ASN:OD1	2.30	0.63
1:gX:83:GLY:HA3	2:ih:8:LEU:HD13	1.79	0.63
2:ht:68:MET:CE	2:hw:84:VAL:HG21	2.28	0.63
1:ip:105:THR:HG21	2:lu:60:ILE:HG13	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iz:68:MET:HE2	2:iz:68:MET:HA	1.80	0.63
2:jz:219:VAL:O	2:jz:219:VAL:HG12	1.99	0.63
2:ke:5:THR:HG22	1:kM:87:ASP:CB	2.26	0.63
2:kU:141:HIS:N	2:kU:148:ASP:O	2.32	0.63
2:lr:188:MET:O	2:lr:202:GLN:NE2	2.32	0.63
2:lt:53:PHE:CE1	2:lw:84:VAL:HG22	2.34	0.63
2:lv:86:VAL:O	2:lv:202:GLN:N	2.27	0.63
1:ly:100:LYS:NZ	1:ly:101:VAL:O	2.31	0.63
2:lF:188:MET:O	2:lF:202:GLN:NE2	2.32	0.63
2:lH:61:GLY:C	1:mT:103:ARG:HG3	2.24	0.63
2:lK:274:ALA:HB1	2:lK:297:VAL:HG21	1.81	0.63
2:lL:294:LEU:CD2	2:lL:295:VAL:HG23	2.26	0.63
2:IY:141:HIS:N	2:IY:148:ASP:O	2.32	0.63
2:IY:274:ALA:HB1	2:IY:297:VAL:HG21	1.81	0.63
1:md:103:ARG:HG3	2:mx:61:GLY:C	2.24	0.63
2:mi:219:VAL:O	2:mi:219:VAL:HG12	1.99	0.63
2:mA:141:HIS:N	2:mA:148:ASP:O	2.32	0.63
1:mW:88:GLU:N	1:mW:88:GLU:OE1	2.29	0.63
2:nc:68:MET:HA	2:nc:68:MET:HE2	1.80	0.63
2:nT:197:LYS:O	2:oc:62:GLN:OE1	2.15	0.63
1:nU:102:GLU:OE2	1:oa:99:LEU:CD2	2.43	0.63
2:og:141:HIS:N	2:og:148:ASP:O	2.32	0.63
2:oW:274:ALA:HB1	2:oW:297:VAL:HG21	1.81	0.63
2:pk:219:VAL:HG23	2:pk:259:ILE:HD12	1.80	0.63
2:px:86:VAL:O	2:px:202:GLN:N	2.27	0.63
2:pz:244:ASP:OD1	2:pz:245:ALA:N	2.32	0.63
2:pJ:107:GLY:HA2	2:pJ:184:TYR:OH	1.98	0.63
3:qh:66:GLN:O	4:qj:10:GLN:CD	2.42	0.63
3:qh:67:ARG:HB3	4:qj:194:LEU:CD1	2.29	0.63
3:qi:61:ASP:CA	4:qo:33:SER:HB3	2.07	0.63
3:qi:68:ALA:CA	4:qo:8:TYR:HE2	2.10	0.63
5:qp:263:ALA:CB	5:qL:255:VAL:HG12	2.27	0.63
5:qp:405:ILE:HD12	5:qL:398:TRP:CE2	2.34	0.63
6:qq:39:ARG:HH12	6:qM:8:ASP:C	2.07	0.63
5:qr:42:PRO:HD2	6:qw:133:ASP:CG	2.22	0.63
5:qz:7:VAL:HG21	5:qz:344:ARG:HG2	1.81	0.63
5:qF:139:LEU:HD11	5:qF:189:ILE:HG13	1.80	0.63
6:qG:112:LEU:HD23	6:qI:58:LEU:CD2	2.29	0.63
5:qJ:255:VAL:HG12	5:qL:263:ALA:CB	2.27	0.63
2:ag:188:MET:O	2:ag:202:GLN:NE2	2.32	0.63
2:av:107:GLY:HA2	2:av:184:TYR:OH	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ay:219:VAL:HG23	2:ay:259:ILE:HD12	1.80	0.63
1:aD:103:ARG:HG3	2:iY:61:GLY:C	2.24	0.63
1:aG:99:LEU:HG	1:kh:102:GLU:OE1	1.95	0.63
2:aV:188:MET:O	2:aV:202:GLN:NE2	2.32	0.63
2:aX:61:GLY:C	1:iE:103:ARG:HG3	2.24	0.63
1:bc:103:ARG:NE	2:bk:61:GLY:O	2.31	0.63
1:bd:100:LYS:CG	1:ji:100:LYS:HE3	2.28	0.63
1:bh:100:LYS:HE3	1:je:100:LYS:CG	2.28	0.63
2:bx:188:MET:O	2:bx:202:GLN:NE2	2.32	0.63
2:bz:61:GLY:C	1:cY:103:ARG:HG3	2.24	0.63
1:bE:83:GLY:HA3	2:dd:8:LEU:HD13	1.79	0.63
2:bQ:244:ASP:OD1	2:bQ:245:ALA:N	2.32	0.63
2:cd:274:ALA:HB1	2:cd:297:VAL:HG21	1.81	0.63
2:cr:219:VAL:HG23	2:cr:259:ILE:HD12	1.80	0.63
2:cP:219:VAL:HG12	2:cP:219:VAL:O	1.99	0.63
2:cR:5:THR:HG22	1:eT:87:ASP:CB	2.26	0.63
2:dh:197:LYS:HE3	2:fo:62:GLN:HG3	1.67	0.63
2:dF:61:GLY:O	1:fd:103:ARG:NE	2.31	0.63
2:dJ:274:ALA:HB1	2:dJ:297:VAL:HG21	1.81	0.63
2:ei:53:PHE:CE1	2:el:84:VAL:HG22	2.34	0.63
2:el:274:ALA:HB1	2:el:297:VAL:HG21	1.81	0.63
1:en:102:GLU:OE2	1:et:99:LEU:CD2	2.43	0.63
2:eW:67:ASP:OD1	1:fd:95:SER:OG	2.13	0.63
2:fl:8:LEU:HD13	1:nG:83:GLY:HA3	1.79	0.63
2:fp:68:MET:HA	2:fp:68:MET:HE2	1.80	0.63
1:fr:100:LYS:NZ	1:fr:101:VAL:O	2.31	0.63
2:fA:53:PHE:CE1	2:fD:84:VAL:HG22	2.34	0.63
2:fD:219:VAL:HG23	2:fD:259:ILE:HD12	1.80	0.63
2:fO:53:PHE:CE1	2:fR:84:VAL:HG22	2.34	0.63
2:fS:197:LYS:O	2:gb:62:GLN:OE1	2.15	0.63
2:gb:219:VAL:O	2:gb:219:VAL:HG12	1.99	0.63
2:gf:274:ALA:HB1	2:gf:297:VAL:HG21	1.81	0.63
2:gu:244:ASP:OD1	2:gu:245:ALA:N	2.32	0.63
2:hj:274:ALA:HB1	2:hj:297:VAL:HG21	1.81	0.63
1:hl:83:GLY:HA3	2:lG:8:LEU:HD13	1.79	0.63
2:hJ:141:HIS:N	2:hJ:148:ASP:O	2.32	0.63
2:il:274:ALA:HB1	2:il:297:VAL:HG21	1.81	0.63
2:iw:107:GLY:HA2	2:iw:184:TYR:OH	1.98	0.63
2:iz:141:HIS:N	2:iz:148:ASP:O	2.32	0.63
2:iI:67:ASP:OD1	1:iP:95:SER:OG	2.13	0.63
2:iW:188:MET:O	2:iW:202:GLN:NE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jD:68:MET:HE2	2:jD:68:MET:HA	1.80	0.63
2:jD:141:HIS:N	2:jD:148:ASP:O	2.32	0.63
2:jN:58:GLU:OE1	2:pI:78:LYS:NZ	2.27	0.63
1:kv:102:GLU:OE1	2:kD:197:LYS:NZ	2.30	0.63
2:kD:53:PHE:CE1	2:kG:84:VAL:HG22	2.34	0.63
2:kR:107:GLY:HA2	2:kR:184:TYR:OH	1.98	0.63
1:lc:99:LEU:CD2	1:mQ:102:GLU:OE2	2.43	0.63
2:le:134:GLN:OE1	2:le:134:GLN:N	2.30	0.63
2:lK:141:HIS:N	2:lK:148:ASP:O	2.32	0.63
2:lV:53:PHE:CE1	2:lY:84:VAL:HG22	2.34	0.63
2:mv:188:MET:O	2:mv:202:GLN:NE2	2.32	0.63
2:mz:86:VAL:O	2:mz:202:GLN:N	2.27	0.63
2:nc:274:ALA:HB1	2:nc:297:VAL:HG21	1.81	0.63
2:nE:141:HIS:N	2:nE:148:ASP:O	2.32	0.63
2:nN:67:ASP:OD1	1:nU:95:SER:OG	2.13	0.63
2:nS:68:MET:HE2	2:nS:68:MET:HA	1.80	0.63
1:oi:100:LYS:NZ	1:oi:101:VAL:O	2.31	0.63
2:or:107:GLY:HA2	2:or:184:TYR:OH	1.98	0.63
2:oE:134:GLN:OE1	2:oE:134:GLN:N	2.30	0.63
2:oR:188:MET:O	2:oR:202:GLN:NE2	2.32	0.63
2:oT:68:MET:CE	2:oW:84:VAL:HG21	2.28	0.63
2:pk:68:MET:HA	2:pk:68:MET:HE2	1.80	0.63
2:pJ:68:MET:CE	2:pM:84:VAL:HG21	2.28	0.63
2:pM:68:MET:HA	2:pM:68:MET:HE2	1.80	0.63
3:qd:84:TYR:CD1	6:qs:20:GLU:CD	2.71	0.63
5:qp:42:PRO:HD2	6:qu:133:ASP:CG	2.22	0.63
5:qr:96:ARG:HD3	5:qt:114:LEU:CD2	2.27	0.63
5:qx:139:LEU:HD11	5:qx:189:ILE:HG13	1.80	0.63
5:qz:139:LEU:HD11	5:qz:189:ILE:HG13	1.81	0.63
6:qK:8:ASP:C	6:qM:39:ARG:HH12	2.07	0.63
2:ah:62:GLN:OE1	2:oh:197:LYS:O	2.15	0.62
2:az:244:ASP:OD1	2:az:245:ALA:N	2.32	0.62
1:aC:60:ARG:NH1	1:hn:99:LEU:CD1	2.25	0.62
2:aJ:53:PHE:CE1	2:aM:84:VAL:HG22	2.34	0.62
2:bb:244:ASP:OD1	2:bb:245:ALA:N	2.32	0.62
1:be:105:THR:HG21	2:kq:60:ILE:HG13	1.79	0.62
2:bo:68:MET:HA	2:bo:68:MET:HE2	1.80	0.62
2:bM:53:PHE:CE1	2:bP:84:VAL:HG22	2.34	0.62
2:bM:107:GLY:HA2	2:bM:184:TYR:OH	1.98	0.62
2:bP:141:HIS:N	2:bP:148:ASP:O	2.32	0.62
2:bP:274:ALA:HB1	2:bP:297:VAL:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bZ:62:GLN:OE1	2:dw:197:LYS:O	2.15	0.62
2:ca:61:GLY:C	1:dm:103:ARG:HG3	2.24	0.62
2:ca:107:GLY:HA2	2:ca:184:TYR:OH	1.98	0.62
2:cC:53:PHE:CE1	2:cF:84:VAL:HG22	2.34	0.62
2:cD:60:ILE:HG13	1:dN:105:THR:HG21	1.79	0.62
2:cP:134:GLN:OE1	2:cP:134:GLN:N	2.30	0.62
2:cT:141:HIS:N	2:cT:148:ASP:O	2.32	0.62
1:da:100:LYS:HE3	1:fe:100:LYS:CG	2.28	0.62
2:dw:244:ASP:OD1	2:dw:245:ALA:N	2.32	0.62
2:dX:219:VAL:HG23	2:dX:259:ILE:HD12	1.80	0.62
1:dZ:102:GLU:OE2	1:nM:99:LEU:CD2	2.43	0.62
1:ec:103:ARG:HG3	2:ew:61:GLY:C	2.24	0.62
2:fb:219:VAL:HG23	2:fb:259:ILE:HD12	1.80	0.62
2:fn:197:LYS:CD	1:nx:99:LEU:HA	2.13	0.62
1:gl:87:ASP:CB	2:hV:5:THR:HG22	2.26	0.62
2:gD:134:GLN:OE1	2:gD:134:GLN:N	2.30	0.62
2:gS:68:MET:CE	2:gV:84:VAL:HG21	2.28	0.62
2:hg:53:PHE:CE1	2:hj:84:VAL:HG22	2.34	0.62
2:iw:53:PHE:CE1	2:iz:84:VAL:HG22	2.34	0.62
2:iN:274:ALA:HB1	2:iN:297:VAL:HG21	1.81	0.62
1:jw:100:LYS:HE3	1:lz:100:LYS:CG	2.27	0.62
2:jz:134:GLN:OE1	2:jz:134:GLN:N	2.30	0.62
2:ko:181:PRO:HD2	5:qF:54:GLN:OE1	1.99	0.62
2:kt:244:ASP:OD1	2:kt:245:ALA:N	2.32	0.62
2:lf:53:PHE:CE1	2:li:84:VAL:HG22	2.34	0.62
2:li:68:MET:HA	2:li:68:MET:HE2	1.80	0.62
2:li:274:ALA:HB1	2:li:297:VAL:HG21	1.81	0.62
2:lG:58:GLU:OE1	2:mY:78:LYS:NZ	2.27	0.62
2:mm:219:VAL:HG23	2:mm:259:ILE:HD12	1.80	0.62
2:mY:219:VAL:O	2:mY:219:VAL:HG12	1.99	0.62
2:mZ:53:PHE:CE1	2:nc:84:VAL:HG22	2.34	0.62
2:pI:219:VAL:O	2:pI:219:VAL:HG12	1.99	0.62
3:qf:68:ALA:HA	4:ql:8:TYR:OH	1.98	0.62
5:qp:255:VAL:HG12	5:qr:263:ALA:CB	2.27	0.62
6:qq:8:ASP:C	6:qs:39:ARG:HH12	2.07	0.62
5:qr:398:TRP:CE2	5:qt:405:ILE:HD12	2.34	0.62
5:qv:7:VAL:HG21	5:qv:344:ARG:HG2	1.81	0.62
5:qx:7:VAL:HG21	5:qx:344:ARG:HG2	1.81	0.62
5:qB:7:VAL:HG21	5:qB:344:ARG:HG2	1.81	0.62
5:qH:255:VAL:HG12	5:qJ:263:ALA:CB	2.27	0.62
2:ah:134:GLN:OE1	2:ah:134:GLN:N	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aK:5:THR:HG22	1:iT:87:ASP:CB	2.26	0.62
2:aM:68:MET:HA	2:aM:68:MET:HE2	1.80	0.62
2:aV:67:ASP:OD1	1:bc:95:SER:OG	2.13	0.62
2:aX:197:LYS:NZ	1:ci:99:LEU:CA	2.59	0.62
2:ba:219:VAL:HG23	2:ba:259:ILE:HD12	1.80	0.62
2:bl:107:GLY:HA2	2:bl:184:TYR:OH	1.98	0.62
2:bm:5:THR:HG22	1:dn:87:ASP:CB	2.26	0.62
2:bp:244:ASP:OD1	2:bp:245:ALA:N	2.32	0.62
1:bt:91:GLU:HA	2:hS:4:ILE:CD1	2.28	0.62
1:bT:105:THR:HG21	2:eZ:60:ILE:HG13	1.79	0.62
2:bZ:219:VAL:HG12	2:bZ:219:VAL:O	1.99	0.62
2:ca:68:MET:CE	2:cd:84:VAL:HG21	2.28	0.62
1:cw:103:ARG:HG3	2:cQ:61:GLY:C	2.24	0.62
1:dC:99:LEU:CA	2:eZ:197:LYS:CD	2.68	0.62
2:eu:188:MET:O	2:eu:202:GLN:NE2	2.32	0.62
2:ez:141:HIS:N	2:ez:148:ASP:O	2.32	0.62
2:eN:219:VAL:HG23	2:eN:259:ILE:HD12	1.80	0.62
2:fc:244:ASP:OD1	2:fc:245:ALA:N	2.32	0.62
1:fg:103:ARG:HG3	2:nB:61:GLY:C	2.24	0.62
2:fz:58:GLU:OE1	2:nm:78:LYS:NZ	2.27	0.62
1:fL:99:LEU:HG	1:ma:102:GLU:OE1	1.95	0.62
1:fW:103:ARG:HG3	2:ii:61:GLY:C	2.24	0.62
1:ha:103:ARG:HG3	2:kD:61:GLY:C	2.24	0.62
1:ho:105:THR:CG2	2:hG:60:ILE:CG2	2.62	0.62
2:hT:184:TYR:HH	2:hT:204:PHE:HD1	1.42	0.62
2:hU:107:GLY:HA2	2:hU:184:TYR:OH	1.98	0.62
1:hZ:100:LYS:NZ	1:hZ:101:VAL:O	2.31	0.62
1:iS:103:ARG:HG3	2:jm:61:GLY:C	2.24	0.62
1:jx:99:LEU:HG	1:lk:102:GLU:OE2	1.74	0.62
2:jy:188:MET:O	2:jy:202:GLN:NE2	2.32	0.62
2:ka:4:ILE:CD1	1:ln:91:GLU:HA	2.28	0.62
2:kc:61:GLY:C	1:ln:103:ARG:HG3	2.24	0.62
2:kf:274:ALA:HB1	2:kf:297:VAL:HG21	1.81	0.62
2:mh:188:MET:O	2:mh:202:GLN:NE2	2.32	0.62
1:mr:91:GLU:HA	2:oD:4:ILE:CD1	2.28	0.62
2:mP:244:ASP:OD1	2:mP:245:ALA:N	2.32	0.62
1:mQ:100:LYS:NZ	1:mQ:101:VAL:O	2.31	0.62
2:mX:67:ASP:OD1	1:ne:95:SER:OG	2.13	0.62
1:ny:88:GLU:OE1	1:ny:88:GLU:N	2.29	0.62
2:ot:86:VAL:O	2:ot:202:GLN:N	2.27	0.62
2:oE:219:VAL:O	2:oE:219:VAL:HG12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oF:107:GLY:HA2	2:oF:184:TYR:OH	1.98	0.62
1:pA:102:GLU:OE2	1:pG:99:LEU:CD2	2.43	0.62
2:pM:274:ALA:HB1	2:pM:297:VAL:HG21	1.81	0.62
2:pX:107:GLY:HA2	2:pX:184:TYR:OH	1.98	0.62
3:qe:66:GLN:C	4:qm:8:TYR:HD2	2.05	0.62
4:qk:177:MET:HB2	4:ql:249:PHE:HB2	1.80	0.62
5:qF:252:LEU:CD2	6:qI:126:GLN:CB	2.58	0.62
5:qF:255:VAL:HG12	5:qH:263:ALA:CB	2.27	0.62
6:qI:8:ASP:C	6:qK:39:ARG:HH12	2.07	0.62
6:qI:112:LEU:CG	6:qK:58:LEU:HD12	2.09	0.62
2:ak:86:VAL:O	2:ak:202:GLN:N	2.27	0.62
1:aq:103:ARG:HG3	2:kp:61:GLY:C	2.24	0.62
2:au:188:MET:O	2:au:202:GLN:NE2	2.32	0.62
2:az:183:ILE:HG21	5:qH:178:PRO:CA	2.29	0.62
1:bc:102:GLU:OE2	1:bi:99:LEU:CD2	2.43	0.62
2:by:58:GLU:OE1	2:dd:78:LYS:NZ	2.27	0.62
2:by:219:VAL:O	2:by:219:VAL:HG12	1.99	0.62
2:bA:5:THR:HG22	1:hP:87:ASP:CB	2.26	0.62
2:bP:87:LYS:NZ	2:bP:201:GLU:OE1	2.27	0.62
2:ce:244:ASP:OD1	2:ce:245:ALA:N	2.32	0.62
1:ci:105:THR:CG2	2:pv:60:ILE:CG2	2.62	0.62
1:cK:91:GLU:HA	2:eW:4:ILE:CD1	2.28	0.62
1:cK:103:ARG:HG3	2:eY:61:GLY:C	2.24	0.62
2:dh:87:LYS:NZ	2:dh:201:GLU:OE1	2.27	0.62
2:di:244:ASP:OD1	2:di:245:ALA:N	2.32	0.62
2:dK:244:ASP:OD1	2:dK:245:ALA:N	2.32	0.62
1:fg:91:GLU:HA	2:nz:4:ILE:CD1	2.28	0.62
2:fB:60:ILE:HG13	1:nW:105:THR:HG21	1.79	0.62
2:fM:188:MET:O	2:fM:202:GLN:NE2	2.32	0.62
2:gc:53:PHE:CE1	2:gf:84:VAL:HG22	2.34	0.62
2:go:163:ALA:HB3	2:go:265:VAL:HG12	1.82	0.62
2:gI:244:ASP:OD1	2:gI:245:ALA:N	2.32	0.62
2:gQ:188:MET:O	2:gQ:202:GLN:NE2	2.32	0.62
2:gR:219:VAL:HG12	2:gR:219:VAL:O	1.99	0.62
2:hk:244:ASP:OD1	2:hk:245:ALA:N	2.32	0.62
2:hx:189:LYS:CE	5:qx:51:GLU:HG2	2.23	0.62
2:hG:53:PHE:CE1	2:hJ:84:VAL:HG22	2.34	0.62
2:hI:86:VAL:O	2:hI:202:GLN:N	2.27	0.62
2:hJ:274:ALA:HB1	2:hJ:297:VAL:HG21	1.81	0.62
2:ih:134:GLN:OE1	2:ih:134:GLN:N	2.30	0.62
2:ih:219:VAL:HG12	2:ih:219:VAL:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iB:100:LYS:NZ	1:iB:101:VAL:O	2.31	0.62
2:iN:219:VAL:HG23	2:iN:259:ILE:HD12	1.80	0.62
2:jp:141:HIS:N	2:jp:148:ASP:O	2.32	0.62
1:js:100:LYS:CG	1:ID:100:LYS:HE3	2.28	0.62
2:jO:61:GLY:C	1:pD:103:ARG:HG3	2.24	0.62
2:kg:244:ASP:OD1	2:kg:245:ALA:N	2.32	0.62
2:ko:188:MET:O	2:ko:202:GLN:NE2	2.32	0.62
2:kG:141:HIS:N	2:kG:148:ASP:O	2.32	0.62
2:kH:294:LEU:CD2	2:kH:295:VAL:HG23	2.26	0.62
2:lf:107:GLY:HA2	2:lf:184:TYR:OH	1.98	0.62
2:mB:294:LEU:CD2	2:mB:295:VAL:HG23	2.26	0.62
2:nc:141:HIS:N	2:nc:148:ASP:O	2.32	0.62
1:ni:87:ASP:CB	2:oG:5:THR:HG22	2.26	0.62
2:nn:107:GLY:HA2	2:nn:184:TYR:OH	1.98	0.62
2:nE:68:MET:HE2	2:nE:68:MET:HA	1.80	0.62
2:nT:244:ASP:OD1	2:nT:245:ALA:N	2.32	0.62
2:og:274:ALA:HB1	2:og:297:VAL:HG21	1.81	0.62
2:oI:141:HIS:N	2:oI:148:ASP:O	2.32	0.62
2:pv:53:PHE:CE1	2:py:84:VAL:HG22	2.34	0.62
2:pJ:53:PHE:CE1	2:pM:84:VAL:HG22	2.34	0.62
3:qi:66:GLN:N	4:qo:9:GLY:O	2.30	0.62
4:qj:177:MET:HB2	4:qk:249:PHE:HB2	1.80	0.62
6:qq:58:LEU:CD1	6:qM:112:LEU:HD21	0.94	0.62
5:qr:139:LEU:HD11	5:qr:189:ILE:HG13	1.80	0.62
5:qt:96:ARG:HD3	5:qv:114:LEU:CD2	2.27	0.62
5:qB:398:TRP:CE2	5:qD:405:ILE:HD12	2.34	0.62
6:qC:112:LEU:HD23	6:qE:58:LEU:CD2	2.29	0.62
5:qH:398:TRP:CE2	5:qJ:405:ILE:HD12	2.34	0.62
2:ah:219:VAL:O	2:ah:219:VAL:HG12	1.99	0.62
2:aN:244:ASP:OD1	2:aN:245:ALA:N	2.32	0.62
2:ba:68:MET:HE2	2:ba:68:MET:HA	1.80	0.62
1:be:60:ARG:NH1	1:kj:99:LEU:CD1	2.25	0.62
2:bk:219:VAL:O	2:bk:219:VAL:HG12	1.99	0.62
2:bo:219:VAL:HG23	2:bo:259:ILE:HD12	1.80	0.62
2:bZ:78:LYS:NZ	2:iJ:58:GLU:OE1	2.27	0.62
2:cs:244:ASP:OD1	2:cs:245:ALA:N	2.32	0.62
2:cB:134:GLN:OE1	2:cB:134:GLN:N	2.30	0.62
2:de:61:GLY:C	1:eE:103:ARG:HG3	2.24	0.62
2:dq:188:MET:O	2:dq:202:GLN:NE2	2.32	0.62
2:dJ:68:MET:HE2	2:dJ:68:MET:HA	1.80	0.62
2:fb:274:ALA:HB1	2:fb:297:VAL:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fp:141:HIS:N	2:fp:148:ASP:O	2.32	0.62
2:fp:171:TYR:OH	2:fp:175:THR:OG1	2.12	0.62
1:fu:103:ARG:HG3	2:mj:61:GLY:C	2.24	0.62
2:fN:134:GLN:OE1	2:fN:134:GLN:N	2.30	0.62
1:gk:99:LEU:CA	2:gS:197:LYS:HZ1	2.02	0.62
2:he:188:MET:O	2:he:202:GLN:NE2	2.32	0.62
1:hr:99:LEU:CD2	1:ku:102:GLU:OE2	2.43	0.62
2:iA:244:ASP:OD1	2:iA:245:ALA:N	2.32	0.62
2:iY:53:PHE:CE1	2:jb:84:VAL:HG22	2.34	0.62
2:jA:107:GLY:HA2	2:jA:184:TYR:OH	1.98	0.62
2:ks:219:VAL:HG23	2:ks:259:ILE:HD12	1.80	0.62
1:kx:103:ARG:HG3	2:kR:61:GLY:C	2.24	0.62
2:li:141:HIS:N	2:li:148:ASP:O	2.32	0.62
1:lE:99:LEU:CD2	1:ne:102:GLU:OE2	2.43	0.62
2:mm:141:HIS:N	2:mm:148:ASP:O	2.32	0.62
1:mo:100:LYS:NZ	1:mo:101:VAL:O	2.31	0.62
2:nB:107:GLY:HA2	2:nB:184:TYR:OH	1.98	0.62
2:ou:141:HIS:N	2:ou:148:ASP:O	2.32	0.62
2:oW:219:VAL:HG23	2:oW:259:ILE:HD12	1.80	0.62
1:pp:91:GLU:HA	2:pH:4:ILE:CD1	2.28	0.62
2:pu:219:VAL:O	2:pu:219:VAL:HG12	1.99	0.62
2:py:141:HIS:N	2:py:148:ASP:O	2.32	0.62
2:pI:134:GLN:OE1	2:pI:134:GLN:N	2.30	0.62
2:qa:219:VAL:HG23	2:qa:259:ILE:HD12	1.80	0.62
3:qd:66:GLN:CA	4:qn:8:TYR:CD2	2.81	0.62
3:qh:66:GLN:CA	4:qj:10:GLN:CG	2.73	0.62
4:qm:89:VAL:CG2	4:qn:245:ASP:HB2	2.21	0.62
4:qm:218:LEU:HD11	4:qn:37:ILE:HD11	1.82	0.62
5:qr:398:TRP:CD2	5:qt:405:ILE:HD12	2.35	0.62
5:qt:7:VAL:HG21	5:qt:344:ARG:HG2	1.81	0.62
5:qx:398:TRP:CD2	5:qz:405:ILE:HD12	2.35	0.62
5:qF:398:TRP:CE2	5:qH:405:ILE:HD12	2.34	0.62
5:qH:139:LEU:HD11	5:qH:189:ILE:HG13	1.80	0.62
5:qJ:398:TRP:CD2	5:qL:405:ILE:HD12	2.35	0.62
5:qL:139:LEU:HD11	5:qL:189:ILE:HG13	1.81	0.62
1:aG:99:LEU:CD2	1:kh:102:GLU:OE2	2.43	0.62
2:ba:141:HIS:N	2:ba:148:ASP:O	2.32	0.62
1:bU:103:ARG:HG3	2:iK:61:GLY:C	2.24	0.62
2:cF:274:ALA:HB1	2:cF:297:VAL:HG21	1.81	0.62
2:cU:294:LEU:CD2	2:cU:295:VAL:HG23	2.26	0.62
1:cY:99:LEU:C	2:dG:197:LYS:HZ2	2.06	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:de:53:PHE:CE1	2:dh:84:VAL:HG22	2.34	0.62
2:dh:68:MET:HA	2:dh:68:MET:HE2	1.80	0.62
2:dE:67:ASP:OD1	1:dL:95:SER:OG	2.13	0.62
2:dY:244:ASP:OD1	2:dY:245:ALA:N	2.32	0.62
2:eJ:219:VAL:O	2:eJ:219:VAL:HG12	1.99	0.62
2:eW:188:MET:O	2:eW:202:GLN:NE2	2.32	0.62
1:fj:99:LEU:HG	1:gJ:102:GLU:OE2	1.74	0.62
2:fO:61:GLY:C	1:lP:103:ARG:HG3	2.24	0.62
2:fS:244:ASP:OD1	2:fS:245:ALA:N	2.32	0.62
2:gt:141:HIS:N	2:gt:148:ASP:O	2.32	0.62
2:gE:53:PHE:CE1	2:gH:84:VAL:HG22	2.34	0.62
2:gH:68:MET:HA	2:gH:68:MET:HE2	1.80	0.62
2:gH:141:HIS:N	2:gH:148:ASP:O	2.32	0.62
2:gT:197:LYS:CD	1:lR:99:LEU:CA	2.69	0.62
2:hj:68:MET:HA	2:hj:68:MET:HE2	1.80	0.62
2:hF:170:TRP:HE1	5:qv:27:GLY:CA	2.13	0.62
2:hT:134:GLN:OE1	2:hT:134:GLN:N	2.30	0.62
2:il:68:MET:HA	2:il:68:MET:HE2	1.80	0.62
1:iE:99:LEU:C	2:pv:197:LYS:HZ2	2.07	0.62
2:iO:244:ASP:OD1	2:iO:245:ALA:N	2.32	0.62
1:ju:99:LEU:CA	2:kc:197:LYS:NZ	2.59	0.62
2:jD:219:VAL:HG23	2:jD:259:ILE:HD12	1.80	0.62
2:jE:244:ASP:OD1	2:jE:245:ALA:N	2.32	0.62
1:jG:102:GLU:OE1	2:jO:197:LYS:NZ	2.30	0.62
1:jH:105:THR:HG21	2:os:60:ILE:HG13	1.79	0.62
1:jZ:99:LEU:HG	1:ly:102:GLU:OE1	1.95	0.62
2:lw:68:MET:HA	2:lw:68:MET:HE2	1.80	0.62
1:mo:100:LYS:HD2	2:mv:197:LYS:HZ2	1.64	0.62
2:mw:219:VAL:HG12	2:mw:219:VAL:O	1.99	0.62
2:mK:219:VAL:HG12	2:mK:219:VAL:O	1.99	0.62
2:mO:274:ALA:HB1	2:mO:297:VAL:HG21	1.81	0.62
2:nF:244:ASP:OD1	2:nF:245:ALA:N	2.32	0.62
2:nO:78:LYS:NZ	2:oc:58:GLU:OE1	2.27	0.62
1:ok:60:ARG:NH1	1:oM:99:LEU:CD1	2.25	0.62
2:oD:188:MET:O	2:oD:202:GLN:NE2	2.32	0.62
2:oI:219:VAL:HG23	2:oI:259:ILE:HD12	1.80	0.62
2:oW:68:MET:HA	2:oW:68:MET:HE2	1.80	0.62
2:pM:219:VAL:HG23	2:pM:259:ILE:HD12	1.80	0.62
2:qb:244:ASP:OD1	2:qb:245:ALA:N	2.32	0.62
4:ql:242:ASP:OD1	4:ql:248:ARG:NH1	2.33	0.62
4:qm:218:LEU:CD1	4:qn:37:ILE:HD11	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qr:7:VAL:HG21	5:qr:344:ARG:HG2	1.81	0.62
5:qr:255:VAL:HG12	5:qt:263:ALA:CB	2.27	0.62
6:qs:112:LEU:HD23	6:qu:58:LEU:CD2	2.29	0.62
5:qv:398:TRP:CD2	5:qx:405:ILE:HD12	2.35	0.62
5:qx:398:TRP:CE2	5:qz:405:ILE:HD12	2.34	0.62
5:qD:7:VAL:HG21	5:qD:344:ARG:HG2	1.81	0.62
2:ai:61:GLY:C	1:nX:103:ARG:HG3	2.24	0.62
1:ar:87:ASP:CB	2:bN:5:THR:HG22	2.26	0.62
2:au:107:GLY:HA3	5:qL:176:ASN:CG	2.25	0.62
2:ay:68:MET:HA	2:ay:68:MET:HE2	1.80	0.62
2:ay:87:LYS:NZ	2:ay:201:GLU:OE1	2.27	0.62
2:ay:274:ALA:HB1	2:ay:297:VAL:HG21	1.81	0.62
2:aH:67:ASP:OD1	1:aO:95:SER:OG	2.13	0.62
2:bM:61:GLY:C	1:hB:103:ARG:HG3	2.24	0.62
2:bY:188:MET:O	2:bY:202:GLN:NE2	2.32	0.62
1:ci:103:ARG:HG3	2:pv:61:GLY:C	2.24	0.62
2:cA:163:ALA:HB3	2:cA:265:VAL:HG12	1.82	0.62
2:cO:188:MET:O	2:cO:202:GLN:NE2	2.32	0.62
2:dc:188:MET:O	2:dc:202:GLN:NE2	2.32	0.62
2:dE:163:ALA:HB3	2:dE:265:VAL:HG12	1.82	0.62
2:eg:188:MET:O	2:eg:202:GLN:NE2	2.32	0.62
2:ej:5:THR:HG22	1:er:87:ASP:CB	2.26	0.62
2:el:141:HIS:N	2:el:148:ASP:O	2.32	0.62
2:ew:197:LYS:NZ	1:nJ:99:LEU:C	2.58	0.62
2:eA:244:ASP:OD1	2:eA:245:ALA:N	2.32	0.62
2:eK:53:PHE:CE1	2:eN:84:VAL:HG22	2.34	0.62
2:eN:68:MET:HA	2:eN:68:MET:HE2	1.80	0.62
2:fk:188:MET:O	2:fk:202:GLN:NE2	2.32	0.62
2:fp:274:ALA:HB1	2:fp:297:VAL:HG21	1.81	0.62
2:fy:188:MET:O	2:fy:202:GLN:NE2	2.32	0.62
2:ga:188:MET:O	2:ga:202:GLN:NE2	2.32	0.62
2:gR:78:LYS:NZ	2:lU:58:GLU:OE1	2.27	0.62
2:gV:87:LYS:NZ	2:gV:201:GLU:OE1	2.27	0.62
2:gW:244:ASP:OD1	2:gW:245:ALA:N	2.32	0.62
2:he:163:ALA:HB3	2:he:265:VAL:HG12	1.82	0.62
2:ii:107:GLY:HA2	2:ii:184:TYR:OH	1.98	0.62
2:iK:53:PHE:CE1	2:iN:84:VAL:HG22	2.34	0.62
2:jR:141:HIS:N	2:jR:148:ASP:O	2.32	0.62
1:jX:87:ASP:CB	2:lu:5:THR:HG22	2.26	0.62
2:ka:188:MET:O	2:ka:202:GLN:NE2	2.32	0.62
2:kt:111:GLY:CA	5:qD:178:PRO:HG2	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kB:188:MET:O	2:kB:202:GLN:NE2	2.32	0.62
2:kG:274:ALA:HB1	2:kG:297:VAL:HG21	1.81	0.62
1:lm:105:THR:HG21	2:pY:60:ILE:HG13	1.79	0.62
2:lw:219:VAL:HG23	2:lw:259:ILE:HD12	1.80	0.62
2:lw:274:ALA:HB1	2:lw:297:VAL:HG21	1.81	0.62
2:lG:134:GLN:OE1	2:lG:134:GLN:N	2.30	0.62
1:nf:102:GLU:OE1	2:nn:197:LYS:NZ	2.30	0.62
2:ou:219:VAL:HG23	2:ou:259:ILE:HD12	1.80	0.62
2:oF:53:PHE:CE1	2:oI:84:VAL:HG22	2.34	0.62
2:pW:219:VAL:HG12	2:pW:219:VAL:O	1.99	0.62
3:qd:66:GLN:CA	4:qn:10:GLN:HG2	2.29	0.62
6:qu:112:LEU:HD21	6:qw:58:LEU:CD1	0.94	0.62
5:qv:139:LEU:HD11	5:qv:189:ILE:HG13	1.80	0.62
6:qA:8:ASP:C	6:qC:39:ARG:HH12	2.07	0.62
6:qK:112:LEU:HD23	6:qM:58:LEU:CD2	2.29	0.62
2:av:53:PHE:CE1	2:ay:84:VAL:HG22	2.34	0.62
2:az:235:ASN:ND2	2:az:291:ASN:OD1	2.33	0.62
2:aI:2:ALA:HB2	1:jd:81:ALA:HA	1.82	0.62
2:aJ:197:LYS:NZ	1:kL:99:LEU:C	2.58	0.62
2:aK:60:ILE:HG13	1:kK:105:THR:HG21	1.79	0.62
1:aR:103:ARG:HG3	2:bl:61:GLY:C	2.24	0.62
2:aW:219:VAL:O	2:aW:219:VAL:HG12	1.99	0.62
2:aX:197:LYS:NZ	1:ci:99:LEU:C	2.58	0.62
2:bp:235:ASN:ND2	2:bp:291:ASN:OD1	2.33	0.62
2:bx:163:ALA:HB3	2:bx:265:VAL:HG12	1.82	0.62
2:bD:244:ASP:OD1	2:bD:245:ALA:N	2.32	0.62
2:bM:197:LYS:NZ	1:gM:99:LEU:CA	2.59	0.62
2:bM:197:LYS:NZ	1:gM:99:LEU:C	2.58	0.62
1:bT:60:ARG:NH2	1:eR:99:LEU:CD1	2.52	0.62
2:cd:68:MET:HA	2:cd:68:MET:HE2	1.80	0.62
2:ce:235:ASN:ND2	2:ce:291:ASN:OD1	2.33	0.62
2:cr:141:HIS:N	2:cr:148:ASP:O	2.32	0.62
1:cv:99:LEU:CA	1:dN:102:GLU:OE1	2.28	0.62
2:cB:78:LYS:NZ	2:cP:58:GLU:OE1	2.27	0.62
2:dh:141:HIS:N	2:dh:148:ASP:O	2.32	0.62
1:dj:81:ALA:HA	2:eJ:2:ALA:HB2	1.82	0.62
2:dU:61:GLY:C	1:oN:103:ARG:HG3	2.24	0.62
2:dU:197:LYS:NZ	1:pD:99:LEU:C	2.58	0.62
2:dY:235:ASN:ND2	2:dY:291:ASN:OD1	2.33	0.62
2:ez:219:VAL:HG23	2:ez:259:ILE:HD12	1.80	0.62
2:eY:53:PHE:CE1	2:fb:84:VAL:HG22	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fi:99:LEU:HA	2:gF:197:LYS:CD	2.13	0.62
2:fm:61:GLY:C	1:gy:103:ARG:HG3	2.24	0.62
2:fy:163:ALA:HB3	2:fy:265:VAL:HG12	1.82	0.62
2:fN:58:GLU:OE1	2:IU:78:LYS:NZ	2.27	0.62
2:fO:197:LYS:NZ	1:ha:99:LEU:C	2.58	0.62
2:gH:219:VAL:HG23	2:gH:259:ILE:HD12	1.80	0.62
2:hf:219:VAL:O	2:hf:219:VAL:HG12	1.99	0.62
2:hg:197:LYS:NZ	1:mr:99:LEU:C	2.58	0.62
2:ii:53:PHE:CE1	2:il:84:VAL:HG22	2.34	0.62
2:il:141:HIS:N	2:il:148:ASP:O	2.32	0.62
2:im:294:LEU:CD2	2:im:295:VAL:HG23	2.26	0.62
1:ip:99:LEU:CD1	1:pQ:60:ARG:NH1	2.25	0.62
2:iN:68:MET:HE2	2:iN:68:MET:HA	1.80	0.62
2:jc:244:ASP:OD1	2:jc:245:ALA:N	2.32	0.62
2:jk:188:MET:O	2:jk:202:GLN:NE2	2.32	0.62
2:kf:219:VAL:HG23	2:kf:259:ILE:HD12	1.80	0.62
2:kC:134:GLN:OE1	2:kC:134:GLN:N	2.30	0.62
2:kU:219:VAL:HG23	2:kU:259:ILE:HD12	1.80	0.62
2:lf:197:LYS:NZ	1:oz:99:LEU:C	2.58	0.62
2:lx:244:ASP:OD1	2:lx:245:ALA:N	2.32	0.62
2:mn:244:ASP:OD1	2:mn:245:ALA:N	2.32	0.62
2:mB:244:ASP:OD1	2:mB:245:ALA:N	2.32	0.62
2:mJ:163:ALA:HB3	2:mJ:265:VAL:HG12	1.82	0.62
2:nd:244:ASP:OD1	2:nd:245:ALA:N	2.32	0.62
2:nm:219:VAL:HG12	2:nm:219:VAL:O	1.99	0.62
2:ob:163:ALA:HB3	2:ob:265:VAL:HG12	1.82	0.62
1:ol:99:LEU:C	2:oT:197:LYS:NZ	2.58	0.62
2:ou:274:ALA:HB1	2:ou:297:VAL:HG21	1.81	0.62
2:pl:235:ASN:ND2	2:pl:291:ASN:OD1	2.33	0.62
2:pl:244:ASP:OD1	2:pl:245:ALA:N	2.32	0.62
1:pp:103:ARG:HG3	2:pJ:61:GLY:C	2.24	0.62
3:qe:64:GLY:C	4:ql:220:SER:O	2.41	0.62
3:qe:66:GLN:HA	4:qm:8:TYR:HD2	1.64	0.62
4:qn:218:LEU:HD11	4:qo:37:ILE:HD11	1.82	0.62
4:qo:125:ASP:OD2	4:qo:126:SER:N	2.33	0.62
5:qp:398:TRP:CD2	5:qr:405:ILE:HD12	2.35	0.62
5:qp:405:ILE:HD12	5:qL:398:TRP:CD2	2.35	0.62
5:qt:398:TRP:CE2	5:qv:405:ILE:HD12	2.34	0.62
6:qy:8:ASP:C	6:qA:39:ARG:HH12	2.07	0.62
6:qA:112:LEU:CG	6:qC:58:LEU:HD12	2.09	0.62
5:qF:42:PRO:HD2	6:qK:133:ASP:CG	2.22	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qJ:301:LEU:HB2	5:qJ:306:THR:HG21	1.82	0.62
2:ai:197:LYS:NZ	1:nh:99:LEU:CA	2.59	0.62
2:av:61:GLY:C	1:bH:103:ARG:HG3	2.24	0.62
2:av:197:LYS:NZ	1:hO:99:LEU:C	2.58	0.62
2:aH:188:MET:O	2:aH:202:GLN:NE2	2.32	0.62
2:aX:60:ILE:CG2	1:iE:105:THR:CG2	2.62	0.62
1:bf:99:LEU:C	2:kp:197:LYS:NZ	2.58	0.62
2:bo:141:HIS:N	2:bo:148:ASP:O	2.32	0.62
2:bD:235:ASN:ND2	2:bD:291:ASN:OD1	2.33	0.62
1:bS:102:GLU:OE1	2:ca:197:LYS:NZ	2.30	0.62
2:cn:8:LEU:HD13	1:pA:83:GLY:HA3	1.79	0.62
2:cr:68:MET:HA	2:cr:68:MET:HE2	1.80	0.62
2:dr:219:VAL:HG12	2:dr:219:VAL:O	1.99	0.62
2:dv:274:ALA:HB1	2:dv:297:VAL:HG21	1.81	0.62
2:dH:186:GLU:O	2:gE:191:SER:OG	2.08	0.62
1:ec:99:LEU:C	2:od:197:LYS:NZ	2.58	0.62
2:ei:197:LYS:NZ	1:fu:99:LEU:C	2.58	0.62
2:em:235:ASN:ND2	2:em:291:ASN:OD1	2.33	0.62
2:em:244:ASP:OD1	2:em:245:ALA:N	2.32	0.62
1:eq:99:LEU:C	2:ph:197:LYS:NZ	2.58	0.62
2:fo:86:VAL:O	2:fo:202:GLN:N	2.27	0.62
2:fA:197:LYS:NZ	1:nX:99:LEU:C	2.58	0.62
2:gp:134:GLN:OE1	2:gp:134:GLN:N	2.30	0.62
2:gC:163:ALA:HB3	2:gC:265:VAL:HG12	1.82	0.62
2:gS:61:GLY:C	1:ic:103:ARG:HG3	2.24	0.62
2:hG:191:SER:OG	2:kE:186:GLU:O	2.08	0.62
2:hX:141:HIS:N	2:hX:148:ASP:O	2.32	0.62
2:hX:274:ALA:HB1	2:hX:297:VAL:HG21	1.81	0.62
2:iu:188:MET:O	2:iu:202:GLN:NE2	2.32	0.62
2:iw:61:GLY:C	1:jI:103:ARG:HG3	2.24	0.62
2:iA:235:ASN:ND2	2:iA:291:ASN:OD1	2.33	0.62
1:iE:99:LEU:CA	2:pv:197:LYS:NZ	2.59	0.62
1:iE:99:LEU:C	2:pv:197:LYS:NZ	2.58	0.62
2:iI:188:MET:O	2:iI:202:GLN:NE2	2.32	0.62
2:jk:163:ALA:HB3	2:jk:265:VAL:HG12	1.82	0.62
2:jy:163:ALA:HB3	2:jy:265:VAL:HG12	1.82	0.62
2:jS:244:ASP:OD1	2:jS:245:ALA:N	2.32	0.62
2:kp:53:PHE:CE1	2:ks:84:VAL:HG22	2.34	0.62
2:kt:189:LYS:CD	5:qD:34:GLN:HG3	2.28	0.62
2:mx:53:PHE:CE1	2:mA:84:VAL:HG22	2.34	0.62
1:mE:105:THR:HG21	2:no:60:ILE:HG13	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mF:99:LEU:C	2:nn:197:LYS:NZ	2.58	0.62
2:nE:219:VAL:HG23	2:nE:259:ILE:HD12	1.80	0.62
2:oh:294:LEU:CD2	2:oh:295:VAL:HG23	2.26	0.62
1:on:99:LEU:HA	2:pY:197:LYS:CD	2.13	0.62
2:or:61:GLY:C	1:pR:103:ARG:HG3	2.24	0.62
2:oT:107:GLY:HA2	2:oT:184:TYR:OH	1.98	0.62
2:oW:141:HIS:N	2:oW:148:ASP:O	2.32	0.62
2:ph:53:PHE:CE1	2:pk:84:VAL:HG22	2.34	0.62
2:pk:274:ALA:HB1	2:pk:297:VAL:HG21	1.81	0.62
2:pH:188:MET:O	2:pH:202:GLN:NE2	2.32	0.62
2:pV:163:ALA:HB3	2:pV:265:VAL:HG12	1.82	0.62
3:qe:10:LEU:O	3:qe:10:LEU:HD23	2.00	0.62
3:qg:66:GLN:CG	4:qk:194:LEU:H	2.08	0.62
4:ql:125:ASP:OD2	4:ql:126:SER:N	2.33	0.62
4:ql:251:ARG:HD2	4:ql:253:ILE:HD11	1.82	0.62
4:qm:125:ASP:OD2	4:qm:126:SER:N	2.33	0.62
5:qp:7:VAL:HG21	5:qp:344:ARG:HG2	1.81	0.62
5:qt:398:TRP:CD2	5:qv:405:ILE:HD12	2.35	0.62
6:qw:8:ASP:C	6:qy:39:ARG:HH12	2.07	0.62
6:qw:112:LEU:HD23	6:qy:58:LEU:CD2	2.29	0.62
6:qC:8:ASP:C	6:qE:39:ARG:HH12	2.07	0.62
6:qG:8:ASP:C	6:qI:39:ARG:HH12	2.07	0.62
5:qH:301:LEU:HB2	5:qH:306:THR:HG21	1.82	0.62
6:qI:112:LEU:HD23	6:qK:58:LEU:CD2	2.29	0.62
5:qL:301:LEU:HB2	5:qL:306:THR:HG21	1.82	0.62
1:an:81:ALA:HA	2:oc:2:ALA:HB2	1.82	0.62
2:bb:235:ASN:ND2	2:bb:291:ASN:OD1	2.33	0.62
2:bL:188:MET:O	2:bL:202:GLN:NE2	2.32	0.62
2:ca:53:PHE:CE1	2:cd:84:VAL:HG22	2.34	0.62
2:cd:219:VAL:HG23	2:cd:259:ILE:HD12	1.80	0.62
2:cF:219:VAL:HG23	2:cF:259:ILE:HD12	1.80	0.62
1:cH:81:ALA:HA	2:pg:2:ALA:HB2	1.82	0.62
2:cO:163:ALA:HB3	2:cO:265:VAL:HG12	1.82	0.62
2:dc:163:ALA:HB3	2:dc:265:VAL:HG12	1.82	0.62
2:de:107:GLY:HA2	2:de:184:TYR:OH	1.98	0.62
1:dA:99:LEU:C	2:gE:197:LYS:NZ	2.58	0.62
2:dK:235:ASN:ND2	2:dK:291:ASN:OD1	2.33	0.62
1:dL:102:GLU:OE2	1:pe:99:LEU:HG	1.74	0.62
2:dS:67:ASP:OD1	1:dZ:95:SER:OG	2.13	0.62
2:dS:188:MET:O	2:dS:202:GLN:NE2	2.32	0.62
2:dT:2:ALA:HB2	1:nU:81:ALA:HA	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eA:235:ASN:ND2	2:eA:291:ASN:OD1	2.33	0.62
2:eO:244:ASP:OD1	2:eO:245:ALA:N	2.32	0.62
2:fz:2:ALA:HB2	1:mo:81:ALA:HA	1.82	0.62
1:fF:81:ALA:HA	2:nm:2:ALA:HB2	1.82	0.62
1:fI:99:LEU:C	2:mx:197:LYS:NZ	2.58	0.62
2:fR:141:HIS:N	2:fR:148:ASP:O	2.32	0.62
1:fT:81:ALA:HA	2:IU:2:ALA:HB2	1.82	0.62
1:gM:103:ARG:HG3	2:IV:61:GLY:C	2.24	0.62
2:gS:107:GLY:HA2	2:gS:184:TYR:OH	1.98	0.62
2:gV:141:HIS:N	2:gV:148:ASP:O	2.32	0.62
2:hi:86:VAL:O	2:hi:202:GLN:N	2.27	0.62
2:ht:61:GLY:C	1:kk:103:ARG:HG3	2.24	0.62
2:hw:219:VAL:HG23	2:hw:259:ILE:HD12	1.80	0.62
2:hK:183:ILE:CA	5:qt:177:SER:CA	2.77	0.62
2:ig:163:ALA:HB3	2:ig:265:VAL:HG12	1.82	0.62
2:im:235:ASN:ND2	2:im:291:ASN:OD1	2.33	0.62
1:iq:99:LEU:C	2:lt:197:LYS:NZ	2.58	0.62
2:iv:219:VAL:O	2:iv:219:VAL:HG12	1.99	0.62
2:iZ:60:ILE:HG13	1:kj:105:THR:HG21	1.79	0.62
2:jm:53:PHE:CE1	2:jp:84:VAL:HG22	2.34	0.62
1:jL:99:LEU:CD2	1:pO:102:GLU:OE2	2.43	0.62
2:jO:197:LYS:NZ	1:oN:99:LEU:C	2.58	0.62
1:jZ:100:LYS:HZ1	1:ly:100:LYS:CG	2.12	0.62
2:kt:235:ASN:ND2	2:kt:291:ASN:OD1	2.33	0.62
2:kC:78:LYS:NZ	2:kQ:58:GLU:OE1	2.27	0.62
1:kI:102:GLU:OE2	1:kO:99:LEU:CD2	2.43	0.62
2:kP:188:MET:O	2:kP:202:GLN:NE2	2.32	0.62
2:kV:235:ASN:ND2	2:kV:291:ASN:OD1	2.33	0.62
2:kV:244:ASP:OD1	2:kV:245:ALA:N	2.32	0.62
2:lJ:244:ASP:OD1	2:lJ:245:ALA:N	2.32	0.62
2:IG:219:VAL:O	2:IG:219:VAL:HG12	1.99	0.62
2:IL:235:ASN:ND2	2:IL:291:ASN:OD1	2.33	0.62
2:IL:244:ASP:OD1	2:IL:245:ALA:N	2.32	0.62
2:IT:163:ALA:HB3	2:IT:265:VAL:HG12	1.82	0.62
2:mm:68:MET:HA	2:mm:68:MET:HE2	1.81	0.62
2:mB:235:ASN:ND2	2:mB:291:ASN:OD1	2.33	0.62
2:mJ:188:MET:O	2:mJ:202:GLN:NE2	2.32	0.62
2:mX:163:ALA:HB3	2:mX:265:VAL:HG12	1.82	0.62
2:nc:219:VAL:HG23	2:nc:259:ILE:HD12	1.80	0.62
2:nl:67:ASP:OD1	1:ns:95:SER:OG	2.13	0.62
2:nO:2:ALA:HB2	1:oi:81:ALA:HA	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oX:244:ASP:OD1	2:oX:245:ALA:N	2.32	0.62
2:pw:197:LYS:CD	1:pF:99:LEU:HA	2.13	0.62
2:pM:87:LYS:NZ	2:pM:201:GLU:OE1	2.27	0.62
3:qf:68:ALA:HB1	4:qk:222:GLY:C	2.16	0.62
4:qj:218:LEU:HD11	4:qk:37:ILE:HD11	1.82	0.62
4:qk:242:ASP:OD1	4:qk:248:ARG:NH1	2.33	0.62
4:ql:116:PHE:CD1	4:qm:202:ILE:HD13	2.25	0.62
4:qm:251:ARG:HD2	4:qm:253:ILE:HD11	1.82	0.62
4:qn:177:MET:HB2	4:qo:249:PHE:HB2	1.80	0.62
5:qp:96:ARG:HD3	5:qr:114:LEU:CD2	2.26	0.62
6:qs:8:ASP:C	6:qu:39:ARG:HH12	2.07	0.62
2:al:141:HIS:N	2:al:148:ASP:O	2.32	0.62
2:am:278:VAL:HG11	2:am:295:VAL:O	2.00	0.62
2:aM:171:TYR:OH	2:aM:175:THR:OG1	2.12	0.62
2:aV:163:ALA:HB3	2:aV:265:VAL:HG12	1.82	0.62
1:bf:103:ARG:HG3	2:ds:61:GLY:C	2.24	0.62
2:bl:197:LYS:NZ	1:iS:99:LEU:C	2.58	0.62
2:bx:197:LYS:HZ2	1:dj:100:LYS:HD2	1.64	0.62
2:bz:107:GLY:HA2	2:bz:184:TYR:OH	1.98	0.62
2:cd:141:HIS:N	2:cd:148:ASP:O	2.32	0.62
2:cn:219:VAL:O	2:cn:219:VAL:HG12	1.99	0.62
1:cw:99:LEU:C	2:pJ:197:LYS:NZ	2.58	0.62
2:cA:188:MET:O	2:cA:202:GLN:NE2	2.32	0.62
2:dw:278:VAL:HG11	2:dw:295:VAL:O	2.00	0.62
2:dX:68:MET:HE2	2:dX:68:MET:HA	1.80	0.62
2:dX:141:HIS:N	2:dX:148:ASP:O	2.32	0.62
1:eq:103:ARG:HG3	2:gE:61:GLY:C	2.24	0.62
2:fb:141:HIS:N	2:fb:148:ASP:O	2.32	0.62
2:fD:141:HIS:N	2:fD:148:ASP:O	2.32	0.62
2:ga:163:ALA:HB3	2:ga:265:VAL:HG12	1.82	0.62
1:gY:102:GLU:OE1	2:hg:197:LYS:NZ	2.30	0.62
2:hg:61:GLY:C	1:lB:103:ARG:HG3	2.24	0.62
2:hj:219:VAL:HG23	2:hj:259:ILE:HD12	1.80	0.62
1:hn:105:THR:HG21	2:kS:60:ILE:HG13	1.79	0.62
2:hF:188:MET:O	2:hF:202:GLN:NE2	2.32	0.62
2:hH:60:ILE:HG13	1:kw:105:THR:HG21	1.79	0.62
2:hT:219:VAL:HG12	2:hT:219:VAL:O	1.99	0.62
2:jb:141:HIS:N	2:jb:148:ASP:O	2.32	0.62
1:jg:103:ARG:HG3	2:lt:61:GLY:C	2.24	0.62
1:ju:99:LEU:C	2:kc:197:LYS:NZ	2.58	0.62
2:jA:197:LYS:NZ	1:mT:99:LEU:C	2.58	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jM:188:MET:O	2:jM:202:GLN:NE2	2.32	0.62
1:jT:81:ALA:HA	2:pI:2:ALA:HB2	1.82	0.62
2:kH:235:ASN:ND2	2:kH:291:ASN:OD1	2.33	0.62
1:kY:99:LEU:CD1	1:oy:60:ARG:NH1	2.25	0.62
1:kZ:99:LEU:C	2:lH:197:LYS:NZ	2.58	0.62
2:ld:67:ASP:OD1	1:lk:95:SER:OG	2.13	0.62
2:lw:141:HIS:N	2:lw:148:ASP:O	2.32	0.62
2:nA:219:VAL:HG12	2:nA:219:VAL:O	1.99	0.62
2:nS:141:HIS:N	2:nS:148:ASP:O	2.32	0.62
2:oc:219:VAL:O	2:oc:219:VAL:HG12	1.99	0.62
2:oT:53:PHE:CE1	2:oW:84:VAL:HG22	2.34	0.62
3:qf:66:GLN:C	4:ql:10:GLN:HG3	2.24	0.62
3:qf:98:ALA:O	3:qf:102:LEU:N	2.27	0.62
3:qg:10:LEU:O	3:qg:10:LEU:HD23	2.00	0.62
4:qj:37:ILE:HD11	4:qo:218:LEU:HD11	1.82	0.62
4:qm:242:ASP:OD1	4:qm:248:ARG:NH1	2.33	0.62
4:qn:125:ASP:OD2	4:qn:126:SER:N	2.33	0.62
5:qt:139:LEU:HD11	5:qt:189:ILE:HG13	1.81	0.62
5:qF:7:VAL:HG21	5:qF:344:ARG:HG2	1.81	0.62
5:qF:301:LEU:HB2	5:qF:306:THR:HG21	1.82	0.62
2:ai:197:LYS:NZ	1:nh:99:LEU:C	2.58	0.61
2:au:67:ASP:OD1	1:aA:95:SER:OG	2.13	0.61
1:aC:103:ARG:NH2	2:hu:59:TRP:O	2.33	0.61
2:aJ:191:SER:OG	2:kS:186:GLU:O	2.08	0.61
2:aW:198:GLU:OE2	1:bi:101:VAL:CB	2.48	0.61
2:ba:87:LYS:NZ	2:ba:201:GLU:OE1	2.27	0.61
1:bt:103:ARG:HG3	2:hU:61:GLY:C	2.24	0.61
2:bz:53:PHE:CE1	2:bC:84:VAL:HG22	2.34	0.61
1:cj:87:ASP:CB	2:ix:5:THR:HG22	2.26	0.61
1:ck:99:LEU:HA	2:ix:197:LYS:CD	2.13	0.61
1:ck:99:LEU:CA	2:ix:197:LYS:CD	2.69	0.61
2:co:197:LYS:NZ	1:jg:99:LEU:C	2.58	0.61
1:cx:87:ASP:CB	2:pi:5:THR:HG22	2.26	0.61
2:cF:141:HIS:N	2:cF:148:ASP:O	2.32	0.61
1:cY:99:LEU:C	2:dG:197:LYS:NZ	2.58	0.61
2:ds:107:GLY:HA2	2:ds:184:TYR:OH	1.98	0.61
2:dG:61:GLY:C	1:eS:103:ARG:HG3	2.24	0.61
1:en:100:LYS:HD2	2:eu:197:LYS:HZ2	1.65	0.61
1:eH:101:VAL:CB	2:gp:198:GLU:OE2	2.49	0.61
2:fb:68:MET:HE2	2:fb:68:MET:HA	1.81	0.61
2:fl:2:ALA:HB2	1:nG:81:ALA:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fL:100:LYS:N	2:lZ:197:LYS:CE	2.60	0.61
2:gg:244:ASP:OD1	2:gg:245:ALA:N	2.32	0.61
2:gq:61:GLY:C	1:hO:103:ARG:HG3	2.24	0.61
2:gt:274:ALA:HB1	2:gt:297:VAL:HG21	1.81	0.61
2:gu:278:VAL:HG11	2:gu:295:VAL:O	2.00	0.61
1:gZ:99:LEU:CD1	1:mq:60:ARG:NH1	2.25	0.61
2:hj:141:HIS:N	2:hj:148:ASP:O	2.32	0.61
2:hk:235:ASN:ND2	2:hk:291:ASN:OD1	2.33	0.61
2:hs:104:GLN:NE2	5:qB:179:ALA:N	2.48	0.61
2:hK:244:ASP:OD1	2:hK:245:ALA:N	2.32	0.61
2:hK:278:VAL:HG11	2:hK:295:VAL:O	2.00	0.61
2:hS:188:MET:O	2:hS:202:GLN:NE2	2.32	0.61
2:ix:59:TRP:O	1:pQ:103:ARG:NH2	2.34	0.61
2:iz:219:VAL:HG23	2:iz:259:ILE:HD12	1.80	0.61
2:iJ:219:VAL:O	2:iJ:219:VAL:HG12	1.99	0.61
2:iW:163:ALA:HB3	2:iW:265:VAL:HG12	1.82	0.61
2:jb:219:VAL:HG23	2:jb:259:ILE:HD12	1.80	0.61
2:jz:198:GLU:OE2	1:pU:101:VAL:CB	2.49	0.61
1:jH:103:ARG:NH2	2:os:59:TRP:O	2.34	0.61
1:jI:99:LEU:CA	2:or:197:LYS:HZ1	2.13	0.61
1:jZ:100:LYS:HZ1	1:ly:100:LYS:HG2	1.60	0.61
2:kD:197:LYS:NZ	1:lP:99:LEU:C	2.58	0.61
2:kT:86:VAL:O	2:kT:202:GLN:N	2.27	0.61
2:ld:188:MET:O	2:ld:202:GLN:NE2	2.32	0.61
2:mO:141:HIS:N	2:mO:148:ASP:O	2.32	0.61
2:mX:188:MET:O	2:mX:202:GLN:NE2	2.32	0.61
2:oI:68:MET:HE2	2:oI:68:MET:HA	1.80	0.61
2:oJ:235:ASN:ND2	2:oJ:291:ASN:OD1	2.33	0.61
2:pt:163:ALA:HB3	2:pt:265:VAL:HG12	1.82	0.61
2:pM:141:HIS:N	2:pM:148:ASP:O	2.32	0.61
2:qa:68:MET:HA	2:qa:68:MET:HE2	1.80	0.61
3:qd:68:ALA:CA	4:qn:8:TYR:OH	2.47	0.61
3:qf:66:GLN:HA	4:ql:8:TYR:C	2.25	0.61
3:qi:10:LEU:O	3:qi:10:LEU:HD23	2.00	0.61
3:qi:64:GLY:C	4:qo:10:GLN:HE22	2.08	0.61
6:qq:58:LEU:CD2	6:qM:112:LEU:HD23	2.29	0.61
5:qv:398:TRP:CE2	5:qx:405:ILE:HD12	2.34	0.61
5:qB:398:TRP:CD2	5:qD:405:ILE:HD12	2.35	0.61
5:qD:398:TRP:CE2	5:qF:405:ILE:HD12	2.34	0.61
5:qL:7:VAL:HG21	5:qL:344:ARG:HG2	1.81	0.61
2:ag:163:ALA:HB3	2:ag:265:VAL:HG12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:am:244:ASP:OD1	2:am:245:ALA:N	2.32	0.61
1:aC:105:THR:HG21	2:hu:60:ILE:HG13	1.79	0.61
1:aQ:103:ARG:NH2	2:jn:59:TRP:O	2.34	0.61
1:aR:99:LEU:C	2:jm:197:LYS:NZ	2.58	0.61
1:bK:70:GLY:HA3	6:qw:116:GLY:CA	2.23	0.61
1:cl:99:LEU:CD2	1:iB:102:GLU:OE2	2.43	0.61
2:cp:59:TRP:O	1:jf:103:ARG:NH2	2.33	0.61
1:cv:105:THR:HG21	2:pK:60:ILE:HG13	1.79	0.61
2:cC:197:LYS:NZ	1:dO:99:LEU:C	2.58	0.61
2:cG:235:ASN:ND2	2:cG:291:ASN:OD1	2.33	0.61
2:dH:197:LYS:CD	1:pd:99:LEU:HA	2.13	0.61
1:dO:103:ARG:HG3	2:nP:61:GLY:C	2.24	0.61
2:dX:274:ALA:HB1	2:dX:297:VAL:HG21	1.81	0.61
2:eg:163:ALA:HB3	2:eg:265:VAL:HG12	1.82	0.61
2:ev:134:GLN:OE1	2:ev:134:GLN:N	2.30	0.61
1:ff:103:ARG:NH2	2:ij:59:TRP:O	2.33	0.61
2:fS:235:ASN:ND2	2:fS:291:ASN:OD1	2.33	0.61
2:gI:235:ASN:ND2	2:gI:291:ASN:OD1	2.33	0.61
1:gP:101:VAL:CB	2:ih:198:GLU:OE2	2.49	0.61
2:hs:163:ALA:HB3	2:hs:265:VAL:HG12	1.82	0.61
2:hs:188:MET:O	2:hs:202:GLN:NE2	2.32	0.61
2:hx:235:ASN:ND2	2:hx:291:ASN:OD1	2.33	0.61
2:hx:294:LEU:CD2	2:hx:295:VAL:HG23	2.26	0.61
2:hK:294:LEU:CD2	2:hK:295:VAL:HG23	2.26	0.61
2:im:244:ASP:OD1	2:im:245:ALA:N	2.32	0.61
2:jc:235:ASN:ND2	2:jc:291:ASN:OD1	2.33	0.61
2:jl:219:VAL:O	2:jl:219:VAL:HG12	1.99	0.61
2:jB:5:THR:HG22	1:pS:87:ASP:CB	2.26	0.61
2:jS:278:VAL:HG11	2:jS:295:VAL:O	2.00	0.61
2:kH:244:ASP:OD1	2:kH:245:ALA:N	2.32	0.61
2:kQ:198:GLU:OE2	1:mW:101:VAL:CB	2.49	0.61
1:lc:101:VAL:CB	2:mK:198:GLU:OE2	2.49	0.61
1:mE:103:ARG:NH2	2:no:59:TRP:O	2.33	0.61
2:nq:141:HIS:N	2:nq:148:ASP:O	2.32	0.61
2:nz:163:ALA:HB3	2:nz:265:VAL:HG12	1.82	0.61
2:nP:197:LYS:NZ	1:pb:99:LEU:C	2.58	0.61
2:nT:235:ASN:ND2	2:nT:291:ASN:OD1	2.33	0.61
2:nT:294:LEU:CD2	2:nT:295:VAL:HG23	2.26	0.61
2:oh:244:ASP:OD1	2:oh:245:ALA:N	2.32	0.61
1:ok:103:ARG:NH2	2:oU:59:TRP:O	2.33	0.61
2:oJ:244:ASP:OD1	2:oJ:245:ALA:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oX:235:ASN:ND2	2:oX:291:ASN:OD1	2.33	0.61
2:pV:188:MET:O	2:pV:202:GLN:NE2	2.32	0.61
2:qb:235:ASN:ND2	2:qb:291:ASN:OD1	2.33	0.61
3:qh:10:LEU:O	3:qh:10:LEU:HD23	2.00	0.61
3:qi:68:ALA:CA	4:qo:8:TYR:OH	2.47	0.61
4:qj:125:ASP:OD2	4:qj:126:SER:N	2.33	0.61
4:qk:125:ASP:OD2	4:qk:126:SER:N	2.33	0.61
4:qk:218:LEU:HD11	4:ql:37:ILE:HD11	1.82	0.61
4:ql:218:LEU:HD11	4:qm:37:ILE:HD11	1.82	0.61
4:qn:251:ARG:HD2	4:qn:253:ILE:HD11	1.82	0.61
5:qp:114:LEU:CD2	5:qL:96:ARG:HD3	2.26	0.61
6:qu:8:ASP:C	6:qw:39:ARG:HH12	2.07	0.61
5:qF:398:TRP:CD2	5:qH:405:ILE:HD12	2.35	0.61
5:qH:7:VAL:HG21	5:qH:344:ARG:HG2	1.81	0.61
5:qJ:139:LEU:HD11	5:qJ:189:ILE:HG13	1.80	0.61
5:qJ:398:TRP:CE2	5:qL:405:ILE:HD12	2.34	0.61
1:ab:105:THR:HG21	2:mM:60:ILE:HG13	1.79	0.61
2:aM:274:ALA:HB1	2:aM:297:VAL:HG21	1.81	0.61
2:aW:2:ALA:HB2	1:bq:81:ALA:HA	1.82	0.61
2:by:2:ALA:HB2	1:hZ:81:ALA:HA	1.82	0.61
2:bN:59:TRP:O	1:gL:103:ARG:NH2	2.33	0.61
1:ct:81:ALA:HA	2:iv:2:ALA:HB2	1.82	0.61
1:cv:103:ARG:NH2	2:pK:59:TRP:O	2.33	0.61
2:cC:60:ILE:CG2	1:pb:105:THR:CG2	2.62	0.61
2:cD:59:TRP:O	1:dN:103:ARG:NH2	2.34	0.61
2:cR:59:TRP:O	1:po:103:ARG:NH2	2.34	0.61
1:cX:103:ARG:NH2	2:dH:59:TRP:O	2.34	0.61
2:dd:134:GLN:OE1	2:dd:134:GLN:N	2.30	0.61
2:dd:219:VAL:O	2:dd:219:VAL:HG12	1.99	0.61
1:dm:99:LEU:CA	2:hU:197:LYS:HZ1	2.06	0.61
1:dA:103:ARG:HG3	2:ph:61:GLY:C	2.24	0.61
2:dF:198:GLU:OE2	1:pe:101:VAL:CB	2.49	0.61
1:dL:102:GLU:OE2	1:pe:99:LEU:CD2	2.43	0.61
1:dZ:81:ALA:HA	2:oS:2:ALA:HB2	1.82	0.61
1:eb:103:ARG:NH2	2:oe:59:TRP:O	2.34	0.61
1:ef:99:LEU:HG	1:nG:102:GLU:OE1	1.95	0.61
2:ev:198:GLU:OE2	1:gB:101:VAL:CB	2.48	0.61
2:eA:278:VAL:HG11	2:eA:295:VAL:O	2.00	0.61
1:eD:99:LEU:CD1	1:ib:60:ARG:NH1	2.25	0.61
2:fl:58:GLU:OE1	2:gD:78:LYS:NZ	2.27	0.61
2:fN:2:ALA:HB2	1:gh:81:ALA:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gb:198:GLU:OE2	1:if:101:VAL:CB	2.48	0.61
2:go:188:MET:O	2:go:202:GLN:NE2	2.32	0.61
2:gW:278:VAL:HG11	2:gW:295:VAL:O	2.00	0.61
2:hf:134:GLN:OE1	2:hf:134:GLN:N	2.30	0.61
2:hh:59:TRP:O	1:mq:103:ARG:NH2	2.34	0.61
2:hs:181:PRO:HD3	5:qB:58:GLN:HE22	1.65	0.61
2:hw:141:HIS:N	2:hw:148:ASP:O	2.32	0.61
2:hx:278:VAL:HG11	2:hx:295:VAL:O	2.00	0.61
2:iO:235:ASN:ND2	2:iO:291:ASN:OD1	2.33	0.61
2:jP:60:ILE:HG13	1:oM:105:THR:HG21	1.79	0.61
2:jR:274:ALA:HB1	2:jR:297:VAL:HG21	1.81	0.61
1:jY:99:LEU:CA	2:lu:197:LYS:CD	2.68	0.61
2:kf:68:MET:HE2	2:kf:68:MET:HA	1.80	0.61
2:kf:141:HIS:N	2:kf:148:ASP:O	2.32	0.61
2:ks:274:ALA:HB1	2:ks:297:VAL:HG21	1.81	0.61
1:kL:103:ARG:HG3	2:mZ:61:GLY:C	2.24	0.61
2:kQ:219:VAL:O	2:kQ:219:VAL:HG12	1.99	0.61
1:kY:103:ARG:NH2	2:II:59:TRP:O	2.34	0.61
2:le:219:VAL:O	2:le:219:VAL:HG12	1.99	0.61
1:lk:81:ALA:HA	2:mK:2:ALA:HB2	1.82	0.61
1:lE:101:VAL:CB	2:mY:198:GLU:OE2	2.49	0.61
2:mn:235:ASN:ND2	2:mn:291:ASN:OD1	2.33	0.61
2:nl:188:MET:O	2:nl:202:GLN:NE2	2.32	0.61
2:nz:188:MET:O	2:nz:202:GLN:NE2	2.32	0.61
2:oh:278:VAL:HG11	2:oh:295:VAL:O	2.00	0.61
2:pu:2:ALA:HB2	1:pO:81:ALA:HA	1.82	0.61
2:pN:235:ASN:ND2	2:pN:291:ASN:OD1	2.33	0.61
2:pN:244:ASP:OD1	2:pN:245:ALA:N	2.32	0.61
4:qj:249:PHE:HB2	4:qo:177:MET:HB2	1.80	0.61
5:qz:398:TRP:CD2	5:qB:405:ILE:HD12	2.35	0.61
6:qA:112:LEU:HD23	6:qC:58:LEU:CD2	2.29	0.61
5:qJ:7:VAL:HG21	5:qJ:344:ARG:HG2	1.81	0.61
1:aq:99:LEU:C	2:ds:197:LYS:NZ	2.58	0.61
2:ax:86:VAL:O	2:ax:202:GLN:N	2.27	0.61
2:ay:141:HIS:N	2:ay:148:ASP:O	2.32	0.61
2:aN:278:VAL:HG11	2:aN:295:VAL:O	2.00	0.61
2:bk:2:ALA:HB2	1:dx:81:ALA:HA	1.82	0.61
1:bH:99:LEU:C	2:gq:197:LYS:NZ	2.58	0.61
2:co:53:PHE:CE1	2:cr:84:VAL:HG22	2.34	0.61
2:cG:244:ASP:OD1	2:cG:245:ALA:N	2.32	0.61
2:cT:68:MET:HE2	2:cT:68:MET:HA	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:da:99:LEU:CA	2:eL:197:LYS:CD	2.69	0.61
2:dV:60:ILE:HG13	1:pC:105:THR:HG21	1.79	0.61
2:ej:59:TRP:O	1:ft:103:ARG:NH2	2.34	0.61
2:em:278:VAL:HG11	2:em:295:VAL:O	2.00	0.61
1:ep:103:ARG:NH2	2:pi:59:TRP:O	2.33	0.61
1:eD:103:ARG:NH2	2:fn:59:TRP:O	2.34	0.61
2:eK:61:GLY:C	1:gk:103:ARG:HG3	2.24	0.61
2:eO:235:ASN:ND2	2:eO:291:ASN:OD1	2.33	0.61
2:fc:235:ASN:ND2	2:fc:291:ASN:OD1	2.33	0.61
1:fj:101:VAL:CB	2:gD:198:GLU:OE2	2.49	0.61
2:fp:219:VAL:HG23	2:fp:259:ILE:HD12	1.80	0.61
1:fs:102:GLU:OE1	2:fA:197:LYS:NZ	2.29	0.61
2:fA:61:GLY:C	1:nh:103:ARG:HG3	2.24	0.61
1:fT:102:GLU:OE2	1:fZ:99:LEU:CD2	2.43	0.61
1:fU:102:GLU:OE1	2:gc:197:LYS:NZ	2.30	0.61
1:fW:99:LEU:C	2:nB:197:LYS:NZ	2.58	0.61
2:gc:197:LYS:NZ	1:md:99:LEU:C	2.58	0.61
2:gR:2:ALA:HB2	1:ma:81:ALA:HA	1.82	0.61
2:hG:197:LYS:NZ	1:kx:99:LEU:C	2.58	0.61
2:hX:219:VAL:HG23	2:hX:259:ILE:HD12	1.80	0.61
2:ig:188:MET:O	2:ig:202:GLN:NE2	2.32	0.61
2:iA:278:VAL:HG11	2:iA:295:VAL:O	2.00	0.61
2:iY:197:LYS:NZ	1:kk:99:LEU:C	2.58	0.61
1:jr:100:LYS:HG2	1:lq:100:LYS:HZ2	1.63	0.61
2:jN:219:VAL:O	2:jN:219:VAL:HG12	1.99	0.61
1:jZ:101:VAL:CB	2:ls:198:GLU:OE2	2.48	0.61
2:ks:68:MET:HA	2:ks:68:MET:HE2	1.81	0.61
2:kE:59:TRP:O	1:lO:103:ARG:NH2	2.34	0.61
2:lf:61:GLY:C	1:mF:103:ARG:HG3	2.24	0.61
2:lT:188:MET:O	2:lT:202:GLN:NE2	2.32	0.61
2:lU:219:VAL:HG12	2:lU:219:VAL:O	1.99	0.61
2:mv:163:ALA:HB3	2:mv:265:VAL:HG12	1.82	0.61
2:mw:2:ALA:HB2	1:oK:81:ALA:HA	1.82	0.61
2:mP:235:ASN:ND2	2:mP:291:ASN:OD1	2.33	0.61
2:ob:188:MET:O	2:ob:202:GLN:NE2	2.32	0.61
1:oo:101:VAL:CB	2:pW:198:GLU:OE2	2.49	0.61
2:qa:141:HIS:N	2:qa:148:ASP:O	2.32	0.61
3:qd:10:LEU:O	3:qd:10:LEU:HD23	2.00	0.61
3:qd:66:GLN:H	4:qn:10:GLN:N	1.97	0.61
4:qk:105:LEU:N	4:qk:161:GLN:OE1	2.34	0.61
5:qp:301:LEU:HB2	5:qp:306:THR:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:qE:8:ASP:C	6:qG:39:ARG:HH12	2.07	0.61
6:qE:112:LEU:HD23	6:qG:58:LEU:CD2	2.29	0.61
1:ab:60:ARG:NH1	1:mE:99:LEU:CD1	2.25	0.61
1:aB:98:LEU:HD12	2:aL:63:ARG:O	2.01	0.61
1:bd:102:GLU:OE1	2:bl:197:LYS:NZ	2.30	0.61
2:bm:59:TRP:O	1:iR:103:ARG:NH2	2.34	0.61
2:bp:278:VAL:HG11	2:bp:295:VAL:O	2.00	0.61
1:bs:103:ARG:NH2	2:cb:59:TRP:O	2.34	0.61
2:bA:60:ILE:HG13	1:eR:105:THR:HG21	1.79	0.61
2:bD:197:LYS:CE	1:hR:100:LYS:N	2.60	0.61
1:bF:98:LEU:HD12	2:bO:63:ARG:O	2.01	0.61
2:bP:219:VAL:HG23	2:bP:259:ILE:HD12	1.80	0.61
2:bY:163:ALA:HB3	2:bY:265:VAL:HG12	1.82	0.61
2:cm:188:MET:O	2:cm:202:GLN:NE2	2.32	0.61
2:cB:219:VAL:O	2:cB:219:VAL:HG12	1.99	0.61
2:cC:107:GLY:HA2	2:cC:184:TYR:OH	1.98	0.61
2:cG:278:VAL:HG11	2:cG:295:VAL:O	2.00	0.61
2:cP:198:GLU:OE2	1:eV:101:VAL:CB	2.49	0.61
2:cU:244:ASP:OD1	2:cU:245:ALA:N	2.32	0.61
2:cU:278:VAL:HG11	2:cU:295:VAL:O	2.00	0.61
2:df:59:TRP:O	1:gx:103:ARG:NH2	2.34	0.61
2:di:235:ASN:ND2	2:di:291:ASN:OD1	2.33	0.61
1:dm:99:LEU:C	2:hU:197:LYS:NZ	2.58	0.61
2:dU:191:SER:OG	2:pK:186:GLU:O	2.08	0.61
1:eb:105:THR:HG21	2:oe:60:ILE:HG13	1.79	0.61
1:ec:99:LEU:C	2:od:197:LYS:HZ2	2.08	0.61
1:ef:101:VAL:CB	2:nA:198:GLU:OE2	2.49	0.61
2:eg:193:THR:HG22	2:nA:193:THR:CG2	2.31	0.61
2:ej:186:GLU:O	2:od:191:SER:OG	2.08	0.61
1:eC:98:LEU:HD12	2:eM:63:ARG:O	2.01	0.61
1:fK:99:LEU:CA	2:lW:197:LYS:CD	2.68	0.61
2:fN:219:VAL:O	2:fN:219:VAL:HG12	1.99	0.61
1:fW:99:LEU:C	2:nB:197:LYS:HZ2	2.07	0.61
1:gj:103:ARG:NH2	2:gT:59:TRP:O	2.33	0.61
2:gu:235:ASN:ND2	2:gu:291:ASN:OD1	2.33	0.61
1:gv:81:ALA:HA	2:hT:2:ALA:HB2	1.82	0.61
2:gQ:193:THR:HG22	2:ih:193:THR:CG2	2.31	0.61
2:gR:198:GLU:OE2	1:lS:101:VAL:CB	2.49	0.61
2:hk:278:VAL:HG11	2:hk:295:VAL:O	2.00	0.61
1:hl:81:ALA:HA	2:lG:2:ALA:HB2	1.82	0.61
2:hw:274:ALA:HB1	2:hw:297:VAL:HG21	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hH:59:TRP:O	1:kw:103:ARG:NH2	2.34	0.61
2:hY:235:ASN:ND2	2:hY:291:ASN:OD1	2.33	0.61
2:hY:244:ASP:OD1	2:hY:245:ALA:N	2.32	0.61
1:iQ:98:LEU:HD12	2:ja:63:ARG:O	2.01	0.61
2:iX:219:VAL:O	2:iX:219:VAL:HG12	1.99	0.61
2:jQ:235:ASN:ND2	2:jQ:291:ASN:OD1	2.33	0.61
2:jS:235:ASN:ND2	2:jS:291:ASN:OD1	2.33	0.61
1:jV:60:ARG:NH1	1:mS:99:LEU:CD1	2.26	0.61
1:jY:99:LEU:HA	2:lu:197:LYS:CD	2.13	0.61
2:kC:2:ALA:HB2	1:kW:81:ALA:HA	1.82	0.61
2:kH:278:VAL:HG11	2:kH:295:VAL:O	2.00	0.61
2:le:58:GLU:OE1	2:mK:78:LYS:NZ	2.27	0.61
1:lm:103:ARG:NH2	2:pY:59:TRP:O	2.33	0.61
2:lZ:235:ASN:ND2	2:lZ:291:ASN:OD1	2.33	0.61
2:lZ:278:VAL:HG11	2:lZ:295:VAL:O	2.00	0.61
2:mj:197:LYS:NZ	1:nv:99:LEU:C	2.58	0.61
1:mI:101:VAL:CB	2:oQ:198:GLU:OE2	2.48	0.61
2:mP:278:VAL:HG11	2:mP:295:VAL:O	2.00	0.61
2:nr:244:ASP:OD1	2:nr:245:ALA:N	2.32	0.61
2:nr:278:VAL:HG11	2:nr:295:VAL:O	2.00	0.61
2:oD:163:ALA:HB3	2:oD:265:VAL:HG12	1.82	0.61
1:pn:98:LEU:HD12	2:px:63:ARG:O	2.01	0.61
2:pH:163:ALA:HB3	2:pH:265:VAL:HG12	1.82	0.61
2:pN:278:VAL:HG11	2:pN:295:VAL:O	2.00	0.61
3:qd:38:SER:O	3:qd:40:GLN:NE2	2.34	0.61
3:qd:98:ALA:O	3:qd:102:LEU:N	2.27	0.61
3:qd:135:GLY:O	3:qi:19:ARG:NH1	2.33	0.61
3:qf:10:LEU:O	3:qf:10:LEU:HD23	2.00	0.61
3:qf:65:GLY:CA	4:ql:10:GLN:NE2	2.63	0.61
3:qg:67:ARG:CA	4:qk:194:LEU:HD13	2.31	0.61
3:qh:38:SER:O	3:qh:40:GLN:NE2	2.34	0.61
1:ap:103:ARG:NH2	2:dt:59:TRP:O	2.33	0.61
2:aM:141:HIS:N	2:aM:148:ASP:O	2.32	0.61
2:aN:235:ASN:ND2	2:aN:291:ASN:OD1	2.33	0.61
1:bf:105:THR:CG2	2:ds:60:ILE:CG2	2.62	0.61
2:bm:186:GLU:O	2:kp:191:SER:OG	2.08	0.61
1:bw:101:VAL:CB	2:dd:198:GLU:OE2	2.49	0.61
1:bU:99:LEU:C	2:eY:197:LYS:NZ	2.58	0.61
2:cn:198:GLU:OE2	1:ps:101:VAL:CB	2.49	0.61
2:cs:278:VAL:HG11	2:cs:295:VAL:O	2.00	0.61
2:dv:141:HIS:N	2:dv:148:ASP:O	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dw:235:ASN:ND2	2:dw:291:ASN:OD1	2.33	0.61
2:dV:59:TRP:O	1:pC:103:ARG:NH2	2.34	0.61
2:eh:58:GLU:OE1	2:nA:78:LYS:NZ	2.27	0.61
1:eP:81:ALA:HA	2:gp:2:ALA:HB2	1.82	0.61
2:fk:193:THR:HG22	2:gD:193:THR:CG2	2.31	0.61
1:fx:100:LYS:N	2:nr:197:LYS:CE	2.60	0.61
2:fE:244:ASP:OD1	2:fE:245:ALA:N	2.32	0.61
2:fS:278:VAL:HG11	2:fS:295:VAL:O	2.00	0.61
1:fU:98:LEU:HD12	2:ge:63:ARG:O	2.01	0.61
1:gk:99:LEU:C	2:gS:197:LYS:NZ	2.58	0.61
1:gK:102:GLU:OE1	2:gS:197:LYS:NZ	2.30	0.61
2:hx:244:ASP:OD1	2:hx:245:ALA:N	2.32	0.61
2:hF:163:ALA:HB3	2:hF:265:VAL:HG12	1.82	0.61
1:io:98:LEU:HD12	2:iy:63:ARG:O	2.01	0.61
1:ip:103:ARG:NH2	2:lu:59:TRP:O	2.34	0.61
2:jc:278:VAL:HG11	2:jc:295:VAL:O	2.00	0.61
2:jl:198:GLU:OE2	1:lq:101:VAL:CB	2.49	0.61
2:jQ:244:ASP:OD1	2:jQ:245:ALA:N	2.32	0.61
1:jF:81:ALA:HA	2:le:2:ALA:HB2	1.82	0.61
1:jG:98:LEU:HD12	2:jQ:63:ARG:O	2.01	0.61
2:kV:278:VAL:HG11	2:kV:295:VAL:O	2.00	0.61
1:kX:102:GLU:OE1	2:lf:197:LYS:NZ	2.30	0.61
1:lD:99:LEU:HA	2:na:197:LYS:CD	2.13	0.61
2:mi:193:THR:CG2	2:mv:193:THR:HG22	2.31	0.61
2:nd:278:VAL:HG11	2:nd:295:VAL:O	2.00	0.61
1:nt:98:LEU:HD12	2:nD:63:ARG:O	2.01	0.61
2:nA:134:GLN:OE1	2:nA:134:GLN:N	2.30	0.61
1:nV:98:LEU:HD12	2:of:63:ARG:O	2.01	0.61
2:oq:219:VAL:O	2:oq:219:VAL:HG12	1.99	0.61
2:ov:244:ASP:OD1	2:ov:245:ALA:N	2.32	0.61
1:ow:81:ALA:HA	2:pW:2:ALA:HB2	1.82	0.61
1:oL:98:LEU:HD12	2:oV:63:ARG:O	2.01	0.61
2:oS:219:VAL:O	2:oS:219:VAL:HG12	1.99	0.61
1:oZ:98:LEU:HD12	2:pj:63:ARG:O	2.01	0.61
2:pv:107:GLY:HA2	2:pv:184:TYR:OH	1.98	0.61
2:pz:235:ASN:ND2	2:pz:291:ASN:OD1	2.33	0.61
2:pX:53:PHE:CE1	2:qa:84:VAL:HG22	2.34	0.61
4:qj:105:LEU:N	4:qj:161:GLN:OE1	2.34	0.61
4:qk:251:ARG:HD2	4:qk:253:ILE:HD11	1.82	0.61
4:qo:242:ASP:OD1	4:qo:248:ARG:NH1	2.33	0.61
2:aj:59:TRP:O	1:ng:103:ARG:NH2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:am:235:ASN:ND2	2:am:291:ASN:OD1	2.33	0.61
1:ap:105:THR:HG21	2:dt:60:ILE:HG13	1.79	0.61
2:aw:59:TRP:O	1:hN:103:ARG:NH2	2.34	0.61
1:aD:99:LEU:C	2:ht:197:LYS:NZ	2.58	0.61
2:aK:59:TRP:O	1:kK:103:ARG:NH2	2.33	0.61
2:cm:163:ALA:HB3	2:cm:265:VAL:HG12	1.82	0.61
2:co:61:GLY:C	1:iq:103:ARG:HG3	2.24	0.61
2:co:107:GLY:HA2	2:co:184:TYR:OH	1.98	0.61
1:cz:101:VAL:CB	2:pg:198:GLU:OE2	2.49	0.61
2:cB:58:GLU:OE1	2:pg:78:LYS:NZ	2.27	0.61
1:dk:98:LEU:HD12	2:du:63:ARG:O	2.01	0.61
1:dl:103:ARG:NH2	2:hV:59:TRP:O	2.34	0.61
2:dG:60:ILE:HG22	1:eS:105:THR:HG21	1.57	0.61
2:dJ:141:HIS:N	2:dJ:148:ASP:O	2.32	0.61
2:dU:53:PHE:CE1	2:dX:84:VAL:HG22	2.34	0.61
2:fk:163:ALA:HB3	2:fk:265:VAL:HG12	1.82	0.61
2:fl:134:GLN:OE1	2:fl:134:GLN:N	2.30	0.61
2:fn:197:LYS:CD	1:nx:99:LEU:CA	2.69	0.61
1:fs:98:LEU:HD12	2:fC:63:ARG:O	2.01	0.61
2:fB:59:TRP:O	1:nW:103:ARG:NH2	2.34	0.61
2:fP:59:TRP:O	1:gZ:103:ARG:NH2	2.34	0.61
1:fV:103:ARG:NH2	2:nC:59:TRP:O	2.34	0.61
1:gw:98:LEU:HD12	2:gG:63:ARG:O	2.01	0.61
1:gY:98:LEU:HD12	2:hi:63:ARG:O	2.01	0.61
2:hK:235:ASN:ND2	2:hK:291:ASN:OD1	2.33	0.61
2:iy:86:VAL:O	2:iy:202:GLN:N	2.27	0.61
1:iD:60:ARG:NH1	1:po:99:LEU:CD1	2.25	0.61
1:je:98:LEU:HD12	2:jo:63:ARG:O	2.01	0.61
2:jz:58:GLU:OE1	2:le:78:LYS:NZ	2.27	0.61
1:jU:98:LEU:HD12	2:ke:63:ARG:O	2.01	0.61
2:ks:141:HIS:N	2:ks:148:ASP:O	2.32	0.61
2:kP:163:ALA:HB3	2:kP:265:VAL:HG12	1.82	0.61
2:lg:59:TRP:O	1:oy:103:ARG:NH2	2.34	0.61
2:lj:235:ASN:ND2	2:lj:291:ASN:OD1	2.33	0.61
1:lz:98:LEU:HD12	2:IJ:63:ARG:O	2.01	0.61
1:lA:103:ARG:NH2	2:oG:59:TRP:O	2.34	0.61
1:lN:98:LEU:HD12	2:lX:63:ARG:O	2.01	0.61
1:mR:98:LEU:HD12	2:nb:63:ARG:O	2.01	0.61
2:nN:188:MET:O	2:nN:202:GLN:NE2	2.32	0.61
2:ov:278:VAL:HG11	2:ov:295:VAL:O	2.00	0.61
2:pf:163:ALA:HB3	2:pf:265:VAL:HG12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pg:134:GLN:OE1	2:pg:134:GLN:N	2.30	0.61
3:qh:68:ALA:HB2	4:qj:8:TYR:OH	2.01	0.61
4:ql:105:LEU:N	4:ql:161:GLN:OE1	2.34	0.61
5:qr:301:LEU:HB2	5:qr:306:THR:HG21	1.82	0.61
5:qD:392:LEU:HD12	5:qF:400:TYR:HE1	1.58	0.61
1:ac:103:ARG:HG3	2:ot:61:GLY:C	2.24	0.61
2:az:278:VAL:HG11	2:az:295:VAL:O	2.00	0.61
1:aG:101:VAL:CB	2:kb:198:GLU:OE2	2.48	0.61
2:aI:134:GLN:OE1	2:aI:134:GLN:N	2.30	0.61
1:bu:87:ASP:CB	2:df:5:THR:HG22	2.26	0.61
2:bB:62:GLN:HE21	2:dJ:197:LYS:NZ	1.99	0.61
2:cE:86:VAL:O	2:cE:202:GLN:N	2.27	0.61
1:cJ:103:ARG:NH2	2:iL:59:TRP:O	2.34	0.61
2:dc:193:THR:HG22	2:eJ:193:THR:CG2	2.31	0.61
2:dh:197:LYS:NZ	2:fo:62:GLN:HE21	1.99	0.61
2:dq:163:ALA:HB3	2:dq:265:VAL:HG12	1.82	0.61
2:dF:219:VAL:HG12	2:dF:219:VAL:O	1.99	0.61
2:eh:219:VAL:HG12	2:eh:219:VAL:O	1.99	0.61
2:ei:197:LYS:HZ1	1:fu:99:LEU:CA	2.05	0.61
2:ev:219:VAL:O	2:ev:219:VAL:HG12	1.99	0.61
2:eO:36:THR:O	2:eO:175:THR:OG1	2.18	0.61
2:fb:197:LYS:NZ	2:iM:62:GLN:HE21	1.99	0.61
2:fq:244:ASP:OD1	2:fq:245:ALA:N	2.32	0.61
1:fL:99:LEU:CD2	1:ma:102:GLU:OE2	2.43	0.61
2:fN:193:THR:CG2	2:ga:193:THR:HG22	2.31	0.61
2:gb:2:ALA:HB2	1:in:81:ALA:HA	1.82	0.61
2:gc:107:GLY:HA2	2:gc:184:TYR:OH	1.98	0.61
2:gD:219:VAL:O	2:gD:219:VAL:HG12	1.99	0.61
2:hf:193:THR:CG2	2:kB:193:THR:HG22	2.31	0.61
2:hs:170:TRP:H	5:qz:178:PRO:CG	1.78	0.61
2:im:278:VAL:HG11	2:im:295:VAL:O	2.00	0.61
1:iC:98:LEU:HD12	2:iM:63:ARG:O	2.01	0.61
2:iZ:59:TRP:O	1:kj:103:ARG:NH2	2.34	0.61
2:jp:68:MET:HE2	2:jp:68:MET:HA	1.80	0.61
2:jy:193:THR:HG22	2:le:193:THR:CG2	2.31	0.61
2:jP:59:TRP:O	1:om:103:ARG:NH2	2.34	0.61
1:jW:99:LEU:C	2:mZ:197:LYS:NZ	2.58	0.61
2:kQ:2:ALA:HB2	1:ne:81:ALA:HA	1.82	0.61
1:ll:98:LEU:HD12	2:lv:63:ARG:O	2.01	0.61
1:ln:99:LEU:C	2:pX:197:LYS:NZ	2.58	0.61
2:II:226:LEU:HD13	2:II:270:LEU:HD13	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IL:278:VAL:HG11	2:IL:295:VAL:O	2.00	0.61
2:mi:2:ALA:HB2	1:mC:81:ALA:HA	1.82	0.61
2:mk:59:TRP:O	1:nu:103:ARG:NH2	2.34	0.61
2:nd:235:ASN:ND2	2:nd:291:ASN:OD1	2.33	0.61
2:nd:294:LEU:CD2	2:nd:295:VAL:HG23	2.26	0.61
2:nl:193:THR:HG22	2:oe:193:THR:CG2	2.31	0.61
2:nn:61:GLY:C	1:oz:103:ARG:HG3	2.24	0.61
2:nQ:60:ILE:HG13	1:pa:105:THR:HG21	1.79	0.61
1:ox:98:LEU:HD12	2:oh:63:ARG:O	2.01	0.61
2:qb:278:VAL:HG11	2:qb:295:VAL:O	2.00	0.61
4:qo:251:ARG:HD2	4:qo:253:ILE:HD11	1.82	0.61
6:qy:112:LEU:HD23	6:qA:58:LEU:CD2	2.29	0.61
5:qD:301:LEU:HB2	5:qD:306:THR:HG21	1.82	0.61
6:qI:15:GLU:OE1	6:qI:19:ARG:NH1	2.34	0.61
6:qK:15:GLU:OE1	6:qK:19:ARG:NH1	2.34	0.61
2:ag:193:THR:HG22	2:oc:193:THR:CG2	2.31	0.61
2:aI:219:VAL:O	2:aI:219:VAL:HG12	1.99	0.61
2:aY:59:TRP:O	1:ch:103:ARG:NH2	2.34	0.61
2:ba:197:LYS:NZ	2:px:62:GLN:HE21	1.99	0.61
1:bE:102:GLU:OE2	1:hR:99:LEU:HG	1.74	0.61
2:bL:163:ALA:HB3	2:bL:265:VAL:HG12	1.82	0.61
1:bT:103:ARG:NH2	2:eZ:59:TRP:O	2.34	0.61
2:cc:62:GLN:HE21	2:hX:197:LYS:NZ	1.99	0.61
2:cr:197:LYS:NZ	2:lv:62:GLN:HE21	1.99	0.61
2:dr:141:HIS:HE2	2:dr:150:THR:HG1	1.49	0.61
2:dH:226:LEU:HD13	2:dH:270:LEU:HD13	1.83	0.61
2:dS:163:ALA:HB3	2:dS:265:VAL:HG12	1.82	0.61
2:dX:197:LYS:NZ	2:jQ:62:GLN:HE21	1.99	0.61
2:eh:78:LYS:NZ	2:ev:58:GLU:OE1	2.27	0.61
2:el:197:LYS:NZ	2:ml:62:GLN:HE21	1.99	0.61
2:eK:197:LYS:NZ	1:ic:99:LEU:C	2.58	0.61
1:eQ:98:LEU:HD12	2:fa:63:ARG:O	2.01	0.61
2:fk:197:LYS:HZ2	1:gJ:100:LYS:HD2	1.65	0.61
2:fq:235:ASN:ND2	2:fq:291:ASN:OD1	2.33	0.61
2:fz:198:GLU:OE2	1:mg:101:VAL:CB	2.49	0.61
2:fz:219:VAL:O	2:fz:219:VAL:HG12	1.99	0.61
2:fM:197:LYS:HZ2	1:ma:100:LYS:HD2	1.66	0.61
2:fQ:62:GLN:HE21	2:kG:197:LYS:NZ	1.99	0.61
2:gd:59:TRP:O	1:mc:103:ARG:NH2	2.34	0.61
2:gg:278:VAL:HG11	2:gg:295:VAL:O	2.00	0.61
1:gX:100:LYS:HD2	2:IT:197:LYS:HZ2	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hd:101:VAL:CB	2:lG:198:GLU:OE2	2.49	0.61
2:hj:197:LYS:NZ	2:oH:62:GLN:HE21	1.99	0.61
1:ho:103:ARG:HG3	2:hG:61:GLY:C	2.24	0.61
2:hu:197:LYS:CD	1:hD:99:LEU:HA	2.13	0.61
2:hS:163:ALA:HB3	2:hS:265:VAL:HG12	1.82	0.61
1:it:99:LEU:HG	1:jT:102:GLU:OE2	1.74	0.61
1:iD:103:ARG:NH2	2:pw:59:TRP:O	2.33	0.61
1:js:98:LEU:HD12	2:jC:63:ARG:O	2.01	0.61
2:jz:193:THR:CG2	2:pV:193:THR:HG22	2.31	0.61
2:jB:226:LEU:HD13	2:jB:270:LEU:HD13	1.83	0.61
2:jE:278:VAL:HG11	2:jE:295:VAL:O	2.00	0.61
2:ka:163:ALA:HB3	2:ka:265:VAL:HG12	1.82	0.61
2:kd:226:LEU:HD13	2:kd:270:LEU:HD13	1.83	0.61
2:kg:235:ASN:ND2	2:kg:291:ASN:OD1	2.33	0.61
1:kh:81:ALA:HA	2:ls:2:ALA:HB2	1.82	0.61
2:ko:163:ALA:HB3	2:ko:265:VAL:HG12	1.82	0.61
2:kC:219:VAL:O	2:kC:219:VAL:HG12	1.99	0.61
2:ls:219:VAL:O	2:ls:219:VAL:HG12	1.99	0.61
2:lx:235:ASN:ND2	2:lx:291:ASN:OD1	2.33	0.61
2:lZ:244:ASP:OD1	2:lZ:245:ALA:N	2.32	0.61
1:mp:98:LEU:HD12	2:mz:63:ARG:O	2.01	0.61
2:mw:198:GLU:OE2	1:oC:101:VAL:CB	2.49	0.61
1:mQ:81:ALA:HA	2:oq:2:ALA:HB2	1.82	0.61
1:nJ:103:ARG:HG3	2:od:61:GLY:C	2.24	0.61
2:nO:219:VAL:O	2:nO:219:VAL:HG12	1.99	0.61
1:om:87:ASP:CB	2:pY:5:THR:HG22	2.26	0.61
2:ov:235:ASN:ND2	2:ov:291:ASN:OD1	2.33	0.61
2:oJ:278:VAL:HG11	2:oJ:295:VAL:O	2.00	0.61
2:oS:134:GLN:OE1	2:oS:134:GLN:N	2.30	0.61
1:pB:102:GLU:OE1	2:pJ:197:LYS:NZ	2.30	0.61
3:qi:67:ARG:CA	4:qo:194:LEU:CD1	2.79	0.61
4:qj:251:ARG:HD2	4:qj:253:ILE:HD11	1.82	0.61
5:qp:139:LEU:HD11	5:qp:189:ILE:HG13	1.80	0.61
6:qq:112:LEU:HD23	6:qs:58:LEU:CD2	2.29	0.61
5:qH:398:TRP:CD2	5:qJ:405:ILE:HD12	2.35	0.61
5:qJ:96:ARG:HD3	5:qL:114:LEU:CD2	2.27	0.61
1:af:101:VAL:CB	2:oc:198:GLU:OE2	2.49	0.61
1:ao:66:ARG:NH1	1:ao:75:LYS:O	2.34	0.61
1:ao:98:LEU:HD12	2:ax:63:ARG:O	2.01	0.61
2:aH:163:ALA:HB3	2:aH:265:VAL:HG12	1.82	0.61
1:aP:98:LEU:HD12	2:aZ:63:ARG:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aU:101:VAL:CB	2:iJ:198:GLU:OE2	2.49	0.61
2:bj:163:ALA:HB3	2:bj:265:VAL:HG12	1.82	0.61
2:bn:107:GLY:HA2	2:bn:184:TYR:HE1	1.66	0.61
2:bx:193:THR:HG22	2:dd:193:THR:CG2	2.31	0.61
2:bP:171:TYR:OH	2:bP:175:THR:OG1	2.12	0.61
2:bQ:235:ASN:ND2	2:bQ:291:ASN:OD1	2.33	0.61
1:bX:100:LYS:HZ1	1:dx:100:LYS:CD	2.13	0.61
2:ce:278:VAL:HG11	2:ce:295:VAL:O	2.01	0.61
1:cf:102:GLU:OE2	1:iH:99:LEU:CD2	2.43	0.61
1:cI:66:ARG:NH1	1:cI:75:LYS:O	2.34	0.61
2:dc:197:LYS:HZ2	1:eP:100:LYS:HD2	1.66	0.61
2:df:226:LEU:HD13	2:df:270:LEU:HD13	1.83	0.61
1:dP:87:ASP:CB	2:oU:5:THR:HG22	2.26	0.61
2:eg:197:LYS:HZ2	1:nG:100:LYS:HD2	1.65	0.61
2:eM:62:GLN:HE21	2:gV:197:LYS:NZ	1.99	0.61
2:gg:235:ASN:ND2	2:gg:291:ASN:OD1	2.33	0.61
1:gK:98:LEU:HD12	2:gU:63:ARG:O	2.01	0.61
2:gW:235:ASN:ND2	2:gW:291:ASN:OD1	2.33	0.61
2:hf:198:GLU:OE2	1:kA:101:VAL:CB	2.49	0.61
2:hi:62:GLN:HE21	2:oI:197:LYS:NZ	1.99	0.61
2:hx:189:LYS:CD	5:qx:51:GLU:HG2	2.29	0.61
2:hH:226:LEU:HD13	2:hH:270:LEU:HD13	1.83	0.61
2:iw:90:ASP:O	2:iw:94:ASP:N	2.34	0.61
2:jQ:278:VAL:HG11	2:jQ:295:VAL:O	2.00	0.61
2:jM:163:ALA:HB3	2:jM:265:VAL:HG12	1.82	0.61
2:ka:193:THR:HG22	2:ls:193:THR:CG2	2.31	0.61
2:lr:163:ALA:HB3	2:lr:265:VAL:HG12	1.82	0.61
2:lF:193:THR:HG22	2:mY:193:THR:CG2	2.31	0.61
1:mb:98:LEU:HD12	2:ml:63:ARG:O	2.01	0.61
2:mh:163:ALA:HB3	2:mh:265:VAL:HG12	1.82	0.61
2:nF:235:ASN:ND2	2:nF:291:ASN:OD1	2.33	0.61
2:nO:198:GLU:OE2	1:oa:101:VAL:CB	2.49	0.61
2:nS:274:ALA:HB1	2:nS:297:VAL:HG21	1.81	0.61
2:oX:278:VAL:HG11	2:oX:295:VAL:O	2.00	0.61
2:ph:90:ASP:O	2:ph:94:ASP:N	2.34	0.61
2:pK:226:LEU:HD13	2:pK:270:LEU:HD13	1.83	0.61
3:qd:68:ALA:HB2	4:qn:8:TYR:HH	1.66	0.61
3:qd:68:ALA:HA	4:qn:8:TYR:CE2	2.35	0.61
3:qg:38:SER:O	3:qg:40:GLN:NE2	2.34	0.61
6:qq:112:LEU:HD21	6:qs:58:LEU:CD1	0.94	0.61
6:qy:15:GLU:OE1	6:qy:19:ARG:NH1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aM:197:LYS:NZ	2:nb:62:GLN:HE21	1.99	0.60
2:aX:90:ASP:O	2:aX:94:ASP:N	2.34	0.60
2:bk:78:LYS:NZ	2:dr:58:GLU:OE1	2.27	0.60
2:bl:197:LYS:HZ1	1:iS:99:LEU:CA	2.08	0.60
2:bm:226:LEU:HD13	2:bm:270:LEU:HD13	1.83	0.60
2:bo:197:LYS:NZ	2:jo:62:GLN:HE21	1.99	0.60
2:bA:59:TRP:O	1:eR:103:ARG:NH2	2.34	0.60
2:bD:278:VAL:HG11	2:bD:295:VAL:O	2.00	0.60
2:ca:60:ILE:CG2	1:dm:105:THR:CG2	2.62	0.60
2:ca:90:ASP:O	2:ca:94:ASP:N	2.34	0.60
1:cf:81:ALA:HA	2:dr:2:ALA:HB2	1.82	0.60
1:cg:98:LEU:HD12	2:cq:63:ARG:O	2.01	0.60
1:cu:98:LEU:HD12	2:cE:63:ARG:O	2.01	0.60
2:cD:197:LYS:CD	1:cM:99:LEU:CA	2.69	0.60
2:cF:87:LYS:NZ	2:cF:201:GLU:OE1	2.27	0.60
2:dI:86:VAL:O	2:dI:202:GLN:N	2.27	0.60
1:dM:66:ARG:NH1	1:dM:75:LYS:O	2.34	0.60
1:dM:98:LEU:HD12	2:dW:63:ARG:O	2.01	0.60
2:dT:198:GLU:OE2	1:nM:101:VAL:CB	2.49	0.60
2:ej:226:LEU:HD13	2:ej:270:LEU:HD13	1.83	0.60
2:ev:193:THR:CG2	2:gC:193:THR:HG22	2.31	0.60
2:ez:197:LYS:NZ	2:of:62:GLN:HE21	1.99	0.60
2:eL:59:TRP:O	1:ib:103:ARG:NH2	2.34	0.60
2:fc:278:VAL:HG11	2:fc:295:VAL:O	2.00	0.60
2:fm:90:ASP:O	2:fm:94:ASP:N	2.34	0.60
2:fn:226:LEU:HD13	2:fn:270:LEU:HD13	1.83	0.60
2:fq:278:VAL:HG11	2:fq:295:VAL:O	2.00	0.60
2:fE:235:ASN:ND2	2:fE:291:ASN:OD1	2.33	0.60
1:fG:66:ARG:NH1	1:fG:75:LYS:O	2.34	0.60
1:fG:102:GLU:OE1	2:fO:197:LYS:NZ	2.30	0.60
2:fR:197:LYS:NZ	2:kF:62:GLN:HE21	1.99	0.60
1:fW:99:LEU:CA	2:nB:197:LYS:NZ	2.59	0.60
2:gp:219:VAL:O	2:gp:219:VAL:HG12	1.99	0.60
2:gH:197:LYS:NZ	2:pj:62:GLN:HE21	1.99	0.60
1:gX:81:ALA:HA	2:ih:2:ALA:HB2	1.82	0.60
2:hF:244:ASP:OD1	2:hF:245:ALA:N	2.34	0.60
1:ho:99:LEU:C	2:kR:197:LYS:NZ	2.58	0.60
1:hA:103:ARG:NH2	2:lW:59:TRP:O	2.34	0.60
2:iI:163:ALA:HB3	2:iI:265:VAL:HG12	1.82	0.60
2:iJ:244:ASP:OD1	2:iJ:245:ALA:N	2.34	0.60
2:iN:141:HIS:N	2:iN:148:ASP:O	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jr:100:LYS:HD2	2:lr:197:LYS:HZ2	1.65	0.60
2:jD:197:LYS:NZ	2:lJ:62:GLN:HE21	1.99	0.60
1:kJ:98:LEU:HD12	2:kT:63:ARG:O	2.01	0.60
2:lh:62:GLN:HE21	2:nq:197:LYS:NZ	1.99	0.60
2:mi:198:GLU:OE2	1:mu:101:VAL:CB	2.49	0.60
2:mn:278:VAL:HG11	2:mn:295:VAL:O	2.00	0.60
2:nr:235:ASN:ND2	2:nr:291:ASN:OD1	2.33	0.60
1:nt:66:ARG:NH1	1:nt:75:LYS:O	2.34	0.60
2:nO:193:THR:CG2	2:ob:193:THR:HG22	2.31	0.60
2:oe:226:LEU:HD13	2:oe:270:LEU:HD13	1.83	0.60
2:oh:235:ASN:ND2	2:oh:291:ASN:OD1	2.33	0.60
2:op:163:ALA:HB3	2:op:265:VAL:HG12	1.82	0.60
2:oq:134:GLN:OE1	2:oq:134:GLN:N	2.30	0.60
2:oG:226:LEU:HD13	2:oG:270:LEU:HD13	1.83	0.60
2:pl:278:VAL:HG11	2:pl:295:VAL:O	2.00	0.60
2:pu:193:THR:CG2	2:pH:193:THR:HG22	2.31	0.60
3:qf:38:SER:O	3:qf:40:GLN:NE2	2.34	0.60
3:qh:66:GLN:CA	4:qj:8:TYR:O	2.49	0.60
4:qn:105:LEU:N	4:qn:161:GLN:OE1	2.34	0.60
4:qn:242:ASP:OD1	4:qn:248:ARG:NH1	2.33	0.60
6:qG:15:GLU:OE1	6:qG:19:ARG:NH1	2.34	0.60
1:aa:66:ARG:NH1	1:aa:75:LYS:O	2.34	0.60
2:ah:244:ASP:OD1	2:ah:245:ALA:N	2.34	0.60
2:ai:90:ASP:O	2:ai:94:ASP:N	2.34	0.60
2:aJ:90:ASP:O	2:aJ:94:ASP:N	2.34	0.60
1:be:103:ARG:NH2	2:kq:59:TRP:O	2.34	0.60
2:bk:198:GLU:OE2	1:dp:101:VAL:CB	2.49	0.60
1:br:98:LEU:HD12	2:bB:63:ARG:O	2.01	0.60
2:bz:90:ASP:O	2:bz:94:ASP:N	2.34	0.60
2:bz:197:LYS:NZ	1:eS:99:LEU:C	2.58	0.60
2:bA:226:LEU:HD13	2:bA:270:LEU:HD13	1.83	0.60
1:bG:103:ARG:NH2	2:gr:59:TRP:O	2.34	0.60
1:bS:98:LEU:HD12	2:cc:63:ARG:O	2.01	0.60
2:cn:193:THR:CG2	2:pt:193:THR:HG22	2.31	0.60
2:cn:244:ASP:OD1	2:cn:245:ALA:N	2.34	0.60
1:cI:102:GLU:OE1	2:cQ:197:LYS:NZ	2.30	0.60
2:cP:193:THR:CG2	2:eW:193:THR:HG22	2.31	0.60
2:dr:106:MET:HG3	2:dr:184:TYR:CD1	2.36	0.60
2:du:62:GLN:HE21	2:ks:197:LYS:NZ	1.99	0.60
1:dD:101:VAL:CB	2:eX:198:GLU:OE2	2.48	0.60
2:dE:193:THR:HG22	2:eX:193:THR:CG2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dF:244:ASP:OD1	2:dF:245:ALA:N	2.34	0.60
2:dW:62:GLN:HE21	2:jR:197:LYS:NZ	1.99	0.60
2:eh:2:ALA:HB2	1:eB:81:ALA:HA	1.82	0.60
2:ei:90:ASP:O	2:ei:94:ASP:N	2.34	0.60
2:ek:62:GLN:HE21	2:mm:197:LYS:NZ	1.99	0.60
1:eo:66:ARG:NH1	1:eo:75:LYS:O	2.34	0.60
2:ev:2:ALA:HB2	1:gJ:81:ALA:HA	1.82	0.60
2:eJ:244:ASP:OD1	2:eJ:245:ALA:N	2.35	0.60
2:fa:62:GLN:HE21	2:iN:197:LYS:NZ	1.99	0.60
1:fg:91:GLU:HA	2:nz:4:ILE:HD11	1.84	0.60
2:fl:78:LYS:NZ	2:nA:58:GLU:OE1	2.27	0.60
2:fl:198:GLU:OE2	1:ny:101:VAL:CB	2.49	0.60
2:fE:278:VAL:HG11	2:fE:295:VAL:O	2.00	0.60
1:fH:103:ARG:NH2	2:my:59:TRP:O	2.34	0.60
2:fN:106:MET:HG3	2:fN:184:TYR:CD1	2.36	0.60
2:fN:198:GLU:OE2	1:fZ:101:VAL:CB	2.49	0.60
1:gn:101:VAL:CB	2:hT:198:GLU:OE2	2.48	0.60
2:gQ:163:ALA:HB3	2:gQ:265:VAL:HG12	1.82	0.60
2:gR:244:ASP:OD1	2:gR:245:ALA:N	2.35	0.60
2:hI:62:GLN:HE21	2:kU:197:LYS:NZ	1.99	0.60
1:it:101:VAL:CB	2:jN:198:GLU:OE2	2.49	0.60
2:iu:163:ALA:HB3	2:iu:265:VAL:HG12	1.82	0.60
2:iv:244:ASP:OD1	2:iv:245:ALA:N	2.35	0.60
1:jx:101:VAL:CB	2:le:198:GLU:OE2	2.49	0.60
2:jB:59:TRP:O	1:mS:103:ARG:NH2	2.34	0.60
2:jN:106:MET:HG3	2:jN:184:TYR:CD1	2.36	0.60
1:jZ:100:LYS:N	2:lx:197:LYS:CE	2.60	0.60
2:kb:244:ASP:OD1	2:kb:245:ALA:N	2.34	0.60
1:ki:66:ARG:NH1	1:ki:75:LYS:O	2.34	0.60
2:kQ:106:MET:HG3	2:kQ:184:TYR:CD1	2.36	0.60
2:ld:4:ILE:HD11	1:mF:91:GLU:HA	1.84	0.60
2:ld:163:ALA:HB3	2:ld:265:VAL:HG12	1.82	0.60
2:lj:278:VAL:HG11	2:lj:295:VAL:O	2.00	0.60
2:lF:163:ALA:HB3	2:lF:265:VAL:HG12	1.82	0.60
2:my:226:LEU:HD13	2:my:270:LEU:HD13	1.83	0.60
2:mL:61:GLY:C	1:ol:103:ARG:HG3	2.24	0.60
2:mN:62:GLN:HE21	2:oW:197:LYS:NZ	1.99	0.60
2:mY:244:ASP:OD1	2:mY:245:ALA:N	2.34	0.60
2:np:107:GLY:HA2	2:np:184:TYR:HE1	1.66	0.60
1:ns:81:ALA:HA	2:oE:2:ALA:HB2	1.82	0.60
1:nH:66:ARG:NH1	1:nH:75:LYS:O	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:nH:98:LEU:HD12	2:nR:63:ARG:O	2.01	0.60
2:od:90:ASP:O	2:od:94:ASP:N	2.34	0.60
1:oj:66:ARG:NH1	1:oj:75:LYS:O	2.34	0.60
2:oS:244:ASP:OD1	2:oS:245:ALA:N	2.34	0.60
2:pu:198:GLU:OE2	1:pG:101:VAL:CB	2.49	0.60
2:pY:226:LEU:HD13	2:pY:270:LEU:HD13	1.83	0.60
3:qh:117:ASP:O	4:qk:6:TYR:CE1	2.55	0.60
4:qj:242:ASP:OD1	4:qj:248:ARG:NH1	2.33	0.60
5:qx:96:ARG:HD3	5:qz:114:LEU:CD2	2.26	0.60
6:qA:15:GLU:OE1	6:qA:19:ARG:NH1	2.34	0.60
6:qK:112:LEU:CG	6:qM:58:LEU:HD12	2.09	0.60
1:aa:98:LEU:HD12	2:ak:63:ARG:O	2.01	0.60
1:ae:99:LEU:HA	2:oe:197:LYS:CD	2.13	0.60
2:au:4:ILE:HD11	1:bH:91:GLU:HA	1.84	0.60
2:aI:244:ASP:OD1	2:aI:245:ALA:N	2.35	0.60
2:aW:193:THR:CG2	2:bj:193:THR:HG22	2.31	0.60
2:bb:278:VAL:HG11	2:bb:295:VAL:O	2.00	0.60
2:by:244:ASP:OD1	2:by:245:ALA:N	2.34	0.60
1:bE:81:ALA:HA	2:dd:2:ALA:HB2	1.82	0.60
2:bM:90:ASP:O	2:bM:94:ASP:N	2.34	0.60
2:bN:226:LEU:HD13	2:bN:270:LEU:HD13	1.83	0.60
1:bX:101:VAL:CB	2:dr:198:GLU:OE2	2.49	0.60
2:cd:197:LYS:NZ	2:hW:62:GLN:HE21	1.99	0.60
2:cG:36:THR:O	2:cG:175:THR:OG1	2.18	0.60
1:cX:99:LEU:CD1	1:gx:60:ARG:NH1	2.25	0.60
2:di:278:VAL:HG11	2:di:295:VAL:O	2.00	0.60
2:dv:197:LYS:NZ	2:kr:62:GLN:HE21	1.99	0.60
2:dF:193:THR:CG2	2:pf:193:THR:HG22	2.31	0.60
1:dL:100:LYS:CD	1:pe:100:LYS:HZ1	2.14	0.60
2:eh:244:ASP:OD1	2:eh:245:ALA:N	2.35	0.60
2:em:239:PHE:O	2:em:242:VAL:HG22	2.02	0.60
1:en:81:ALA:HA	2:nA:2:ALA:HB2	1.82	0.60
2:ev:106:MET:HG3	2:ev:184:TYR:CD1	2.36	0.60
2:ev:244:ASP:OD1	2:ev:245:ALA:N	2.34	0.60
2:ex:59:TRP:O	1:nI:103:ARG:NH2	2.34	0.60
2:eA:239:PHE:O	2:eA:242:VAL:HG22	2.02	0.60
2:eM:294:LEU:CD2	2:eM:295:VAL:HG23	2.32	0.60
2:eN:197:LYS:NZ	2:gU:62:GLN:HE21	1.99	0.60
2:eO:278:VAL:HG11	2:eO:295:VAL:O	2.00	0.60
1:fx:101:VAL:CB	2:nm:198:GLU:OE2	2.49	0.60
2:fy:193:THR:HG22	2:nm:193:THR:CG2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fA:90:ASP:O	2:fA:94:ASP:N	2.34	0.60
2:fC:294:LEU:CD2	2:fC:295:VAL:HG23	2.32	0.60
1:fL:101:VAL:CB	2:IU:198:GLU:OE2	2.48	0.60
1:gP:99:LEU:HG	1:in:102:GLU:OE2	1.74	0.60
2:gQ:4:ILE:HD11	1:ic:91:GLU:HA	1.84	0.60
2:hh:226:LEU:HD13	2:hh:270:LEU:HD13	1.83	0.60
2:hk:239:PHE:O	2:hk:242:VAL:HG22	2.02	0.60
2:hG:90:ASP:O	2:hG:94:ASP:N	2.34	0.60
2:ii:90:ASP:O	2:ii:94:ASP:N	2.34	0.60
2:iy:62:GLN:HE21	2:ou:197:LYS:NZ	1.99	0.60
1:jt:103:ARG:NH2	2:kd:59:TRP:O	2.34	0.60
1:jL:101:VAL:CB	2:pI:198:GLU:OE2	2.49	0.60
2:jO:90:ASP:O	2:jO:94:ASP:N	2.35	0.60
1:jV:103:ARG:NH2	2:na:59:TRP:O	2.34	0.60
2:kb:219:VAL:O	2:kb:219:VAL:HG12	1.99	0.60
2:kc:90:ASP:O	2:kc:94:ASP:N	2.34	0.60
2:kS:5:THR:HG22	1:mU:87:ASP:CB	2.26	0.60
2:lU:106:MET:HG3	2:lU:184:TYR:CD1	2.36	0.60
2:lX:294:LEU:CD2	2:lX:295:VAL:HG23	2.32	0.60
2:mi:134:GLN:OE1	2:mi:134:GLN:N	2.30	0.60
2:mi:141:HIS:HE2	2:mi:150:THR:HG1	1.45	0.60
2:mi:244:ASP:OD1	2:mi:245:ALA:N	2.34	0.60
2:nm:106:MET:HG3	2:nm:184:TYR:CD1	2.36	0.60
2:nB:90:ASP:O	2:nB:94:ASP:N	2.34	0.60
2:nQ:59:TRP:O	1:pa:103:ARG:NH2	2.34	0.60
1:nU:100:LYS:HD2	2:ob:197:LYS:HZ2	1.66	0.60
2:op:4:ILE:HD11	1:pR:91:GLU:HA	1.84	0.60
2:oF:90:ASP:O	2:oF:94:ASP:N	2.34	0.60
2:pk:141:HIS:N	2:pk:148:ASP:O	2.32	0.60
2:pw:226:LEU:HD13	2:pw:270:LEU:HD13	1.83	0.60
2:pW:244:ASP:OD1	2:pW:245:ALA:N	2.35	0.60
3:qe:38:SER:O	3:qe:40:GLN:NE2	2.34	0.60
3:qi:84:TYR:CZ	6:qM:20:GLU:OE2	2.51	0.60
5:qt:301:LEU:HB2	5:qt:306:THR:HG21	1.82	0.60
6:qu:15:GLU:OE1	6:qu:19:ARG:NH1	2.34	0.60
1:ab:103:ARG:NH2	2:mM:59:TRP:O	2.34	0.60
1:ac:91:GLU:HA	2:oR:4:ILE:HD11	1.84	0.60
2:ah:2:ALA:HB2	1:oY:81:ALA:HA	1.82	0.60
2:ai:117:LEU:HD21	2:ai:211:TYR:HA	1.84	0.60
1:aD:105:THR:CG2	2:iY:60:ILE:CG2	2.62	0.60
2:aL:62:GLN:HE21	2:nc:197:LYS:NZ	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aL:294:LEU:CD2	2:aL:295:VAL:HG23	2.32	0.60
1:aR:99:LEU:CA	2:jm:197:LYS:NZ	2.59	0.60
1:bc:81:ALA:HA	2:iJ:2:ALA:HB2	1.82	0.60
1:bF:66:ARG:NH1	1:bF:75:LYS:O	2.34	0.60
2:bM:117:LEU:HD21	2:bM:211:TYR:HA	1.84	0.60
2:bO:294:LEU:CD2	2:bO:295:VAL:HG23	2.32	0.60
2:bZ:58:GLU:OE1	2:dr:78:LYS:NZ	2.27	0.60
2:cO:67:ASP:OD1	1:cV:95:SER:OG	2.13	0.60
2:dd:58:GLU:OE1	2:eJ:78:LYS:NZ	2.27	0.60
2:ds:90:ASP:O	2:ds:94:ASP:N	2.34	0.60
1:dy:98:LEU:HD12	2:dI:63:ARG:O	2.01	0.60
1:dy:102:GLU:OE1	2:dG:197:LYS:NZ	2.30	0.60
1:dz:103:ARG:NH2	2:gF:59:TRP:O	2.33	0.60
2:dK:278:VAL:HG11	2:dK:295:VAL:O	2.00	0.60
2:dT:219:VAL:O	2:dT:219:VAL:HG12	1.99	0.60
2:eh:193:THR:CG2	2:eu:193:THR:HG22	2.31	0.60
1:en:100:LYS:CG	1:et:100:LYS:HZ1	2.15	0.60
2:eu:163:ALA:HB3	2:eu:265:VAL:HG12	1.82	0.60
2:fl:219:VAL:O	2:fl:219:VAL:HG12	1.99	0.60
2:fq:197:LYS:CE	1:ny:100:LYS:N	2.60	0.60
2:fy:4:ILE:HD11	1:nh:91:GLU:HA	1.84	0.60
2:fN:244:ASP:OD1	2:fN:245:ALA:N	2.34	0.60
2:gb:244:ASP:OD1	2:gb:245:ALA:N	2.35	0.60
2:gc:90:ASP:O	2:gc:94:ASP:N	2.34	0.60
2:gd:226:LEU:HD13	2:gd:270:LEU:HD13	1.83	0.60
2:go:193:THR:HG22	2:hT:193:THR:CG2	2.31	0.60
1:gM:91:GLU:HA	2:lT:4:ILE:HD11	1.84	0.60
2:gW:239:PHE:O	2:gW:242:VAL:HG22	2.02	0.60
2:hg:117:LEU:HD21	2:hg:211:TYR:HA	1.84	0.60
1:hm:66:ARG:NH1	1:hm:75:LYS:O	2.34	0.60
1:hm:98:LEU:HD12	2:hv:63:ARG:O	2.01	0.60
1:ho:91:GLU:HA	2:hF:4:ILE:HD11	1.84	0.60
2:ht:90:ASP:O	2:ht:94:ASP:N	2.34	0.60
2:ht:117:LEU:HD21	2:ht:211:TYR:HA	1.84	0.60
2:hY:278:VAL:HG11	2:hY:295:VAL:O	2.00	0.60
2:ij:226:LEU:HD13	2:ij:270:LEU:HD13	1.83	0.60
2:iu:193:THR:HG22	2:jN:193:THR:CG2	2.31	0.60
2:jz:2:ALA:HB2	1:qc:81:ALA:HA	1.82	0.60
2:jE:235:ASN:ND2	2:jE:291:ASN:OD1	2.33	0.60
2:jE:239:PHE:O	2:jE:242:VAL:HG22	2.02	0.60
2:kp:90:ASP:O	2:kp:94:ASP:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:kx:91:GLU:HA	2:kP:4:ILE:HD11	1.84	0.60
2:kV:239:PHE:O	2:kV:242:VAL:HG22	2.02	0.60
2:lh:294:LEU:CD2	2:lh:295:VAL:HG23	2.32	0.60
2:lx:278:VAL:HG11	2:lx:295:VAL:O	2.00	0.60
1:lz:66:ARG:NH1	1:lz:75:LYS:O	2.34	0.60
1:lN:102:GLU:OE1	2:IV:197:LYS:NZ	2.30	0.60
2:mw:244:ASP:OD1	2:mw:245:ALA:N	2.34	0.60
2:mB:278:VAL:HG11	2:mB:295:VAL:O	2.00	0.60
2:mJ:4:ILE:HD11	1:ol:91:GLU:HA	1.84	0.60
1:nk:101:VAL:CB	2:oE:198:GLU:OE2	2.48	0.60
2:nm:244:ASP:OD1	2:nm:245:ALA:N	2.34	0.60
2:nF:278:VAL:HG11	2:nF:295:VAL:O	2.00	0.60
2:nP:90:ASP:O	2:nP:94:ASP:N	2.34	0.60
1:nV:66:ARG:NH1	1:nV:75:LYS:O	2.34	0.60
1:oj:98:LEU:HD12	2:ot:63:ARG:O	2.01	0.60
2:oH:294:LEU:CD2	2:oH:295:VAL:HG23	2.32	0.60
2:pz:197:LYS:CE	1:pG:100:LYS:N	2.60	0.60
3:qf:68:ALA:HB2	4:ql:8:TYR:HH	1.65	0.60
3:qh:65:GLY:N	4:qo:219:ILE:CG2	2.65	0.60
5:qx:301:LEU:HB2	5:qx:306:THR:HG21	1.82	0.60
5:qB:301:LEU:HB2	5:qB:306:THR:HG21	1.82	0.60
5:qD:398:TRP:CD2	5:qF:405:ILE:HD12	2.35	0.60
1:ac:99:LEU:C	2:mL:197:LYS:NZ	2.58	0.60
2:ag:4:ILE:HD11	1:nX:91:GLU:HA	1.84	0.60
2:ah:198:GLU:OE2	1:oQ:101:VAL:CB	2.49	0.60
2:ak:294:LEU:CD2	2:ak:295:VAL:HG23	2.32	0.60
2:am:239:PHE:O	2:am:242:VAL:HG22	2.02	0.60
1:aO:81:ALA:HA	2:kb:2:ALA:HB2	1.82	0.60
2:aV:193:THR:HG22	2:iJ:193:THR:CG2	2.31	0.60
2:bb:141:HIS:N	2:bb:148:ASP:O	2.35	0.60
2:bl:90:ASP:O	2:bl:94:ASP:N	2.35	0.60
2:bp:197:LYS:CA	2:dr:62:GLN:OE1	2.50	0.60
2:by:198:GLU:OE2	1:hR:101:VAL:CB	2.48	0.60
2:bQ:278:VAL:HG11	2:bQ:295:VAL:O	2.00	0.60
2:bZ:134:GLN:OE1	2:bZ:134:GLN:N	2.30	0.60
2:bZ:193:THR:CG2	2:iI:193:THR:HG22	2.31	0.60
2:cb:197:LYS:CD	1:iG:99:LEU:HA	2.13	0.60
2:cc:294:LEU:CD2	2:cc:295:VAL:HG23	2.32	0.60
2:ce:36:THR:O	2:ce:175:THR:OG1	2.18	0.60
2:cs:235:ASN:ND2	2:cs:291:ASN:OD1	2.33	0.60
2:cC:90:ASP:O	2:cC:94:ASP:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cS:62:GLN:HE21	2:pM:197:LYS:NZ	1.99	0.60
2:cU:235:ASN:ND2	2:cU:291:ASN:OD1	2.33	0.60
2:dt:226:LEU:HD13	2:dt:270:LEU:HD13	1.83	0.60
1:dL:81:ALA:HA	2:eX:2:ALA:HB2	1.82	0.60
1:dO:91:GLU:HA	2:nN:4:ILE:HD11	1.84	0.60
2:dS:193:THR:HG22	2:oS:193:THR:CG2	2.31	0.60
2:dT:244:ASP:OD1	2:dT:245:ALA:N	2.35	0.60
1:ec:91:GLU:HA	2:eu:4:ILE:HD11	1.84	0.60
2:eh:198:GLU:OE2	1:et:101:VAL:CB	2.48	0.60
2:ej:205:MET:SD	2:em:63:ARG:NE	2.75	0.60
2:ek:294:LEU:CD2	2:ek:295:VAL:HG23	2.32	0.60
2:ey:294:LEU:CD2	2:ey:295:VAL:HG23	2.32	0.60
1:eH:99:LEU:HG	1:gv:102:GLU:OE2	1.74	0.60
2:eI:193:THR:HG22	2:gp:193:THR:CG2	2.31	0.60
2:eZ:226:LEU:HD13	2:eZ:270:LEU:HD13	1.83	0.60
2:fl:106:MET:HG3	2:fl:184:TYR:CD1	2.36	0.60
2:fE:197:LYS:CA	2:mi:62:GLN:OE1	2.50	0.60
1:fG:98:LEU:HD12	2:fQ:63:ARG:O	2.01	0.60
2:fO:90:ASP:O	2:fO:94:ASP:N	2.34	0.60
2:fP:205:MET:SD	2:fS:63:ARG:NE	2.75	0.60
2:gf:197:LYS:NZ	2:mz:62:GLN:HE21	1.99	0.60
2:gq:90:ASP:O	2:gq:94:ASP:N	2.34	0.60
2:gs:294:LEU:CD2	2:gs:295:VAL:HG23	2.32	0.60
2:gu:36:THR:O	2:gu:175:THR:OG1	2.18	0.60
2:gG:294:LEU:CD2	2:gG:295:VAL:HG23	2.32	0.60
1:gK:66:ARG:NH1	1:gK:75:LYS:O	2.34	0.60
2:gW:197:LYS:CA	2:lU:62:GLN:OE1	2.50	0.60
1:hc:99:LEU:CA	2:lI:197:LYS:CD	2.69	0.60
2:he:4:ILE:HD11	1:lB:91:GLU:HA	1.84	0.60
2:hF:104:GLN:OE1	5:qx:176:ASN:ND2	2.35	0.60
2:ik:294:LEU:CD2	2:ik:295:VAL:HG23	2.32	0.60
2:iz:197:LYS:NZ	2:ot:62:GLN:HE21	1.99	0.60
2:iK:90:ASP:O	2:iK:94:ASP:N	2.34	0.60
2:iO:278:VAL:HG11	2:iO:295:VAL:O	2.00	0.60
1:iS:91:GLU:HA	2:jk:4:ILE:HD11	1.84	0.60
2:iX:193:THR:CG2	2:jk:193:THR:HG22	2.31	0.60
2:iX:244:ASP:OD1	2:iX:245:ALA:N	2.34	0.60
2:jl:2:ALA:HB2	1:ly:81:ALA:HA	1.82	0.60
2:jl:244:ASP:OD1	2:jl:245:ALA:N	2.35	0.60
1:jw:99:LEU:CA	2:lg:197:LYS:CD	2.69	0.60
2:jz:244:ASP:OD1	2:jz:245:ALA:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kb:134:GLN:OE1	2:kb:134:GLN:N	2.30	0.60
1:ki:98:LEU:HD12	2:kr:63:ARG:O	2.01	0.60
2:ke:205:MET:SD	2:kH:63:ARG:NE	2.75	0.60
2:lt:90:ASP:O	2:lt:94:ASP:N	2.34	0.60
2:lv:107:GLY:HA2	2:lv:184:TYR:HE1	1.66	0.60
1:mb:66:ARG:NH1	1:mb:75:LYS:O	2.34	0.60
2:mw:193:THR:CG2	2:oD:193:THR:HG22	2.31	0.60
2:mz:294:LEU:CD2	2:mz:295:VAL:HG23	2.32	0.60
2:mB:197:LYS:CA	2:oE:62:GLN:OE1	2.50	0.60
2:mK:244:ASP:OD1	2:mK:245:ALA:N	2.35	0.60
2:mO:197:LYS:NZ	2:oV:62:GLN:HE21	1.99	0.60
2:mP:239:PHE:O	2:mP:242:VAL:HG22	2.02	0.60
1:mR:66:ARG:NH1	1:mR:75:LYS:O	2.34	0.60
2:nr:239:PHE:O	2:nr:242:VAL:HG22	2.02	0.60
2:nC:226:LEU:HD13	2:nC:270:LEU:HD13	1.83	0.60
1:nH:102:GLU:OE1	2:nP:197:LYS:NZ	2.29	0.60
1:nJ:91:GLU:HA	2:ob:4:ILE:HD11	1.84	0.60
2:nO:106:MET:HG3	2:nO:184:TYR:CD1	2.36	0.60
2:ob:67:ASP:OD1	1:oi:95:SER:OG	2.13	0.60
2:oq:244:ASP:OD1	2:oq:245:ALA:N	2.34	0.60
2:oX:239:PHE:O	2:oX:242:VAL:HG22	2.02	0.60
2:pw:205:MET:SD	2:pz:63:ARG:NE	2.75	0.60
2:pJ:90:ASP:O	2:pJ:94:ASP:N	2.34	0.60
3:qf:67:ARG:N	4:ql:194:LEU:HD11	2.03	0.60
5:qv:96:ARG:HD3	5:qx:114:LEU:CD2	2.27	0.60
6:qM:15:GLU:OE1	6:qM:19:ARG:NH1	2.34	0.60
2:ah:62:GLN:OE1	2:oh:197:LYS:CA	2.50	0.60
2:aj:226:LEU:HD13	2:aj:270:LEU:HD13	1.83	0.60
2:au:163:ALA:HB3	2:au:265:VAL:HG12	1.82	0.60
2:aw:205:MET:SD	2:az:63:ARG:NE	2.75	0.60
2:ax:107:GLY:HA2	2:ax:184:TYR:HE1	1.66	0.60
1:aR:91:GLU:HA	2:bj:4:ILE:HD11	1.83	0.60
2:aY:226:LEU:HD13	2:aY:270:LEU:HD13	1.83	0.60
2:bk:244:ASP:OD1	2:bk:245:ALA:N	2.34	0.60
1:bt:99:LEU:C	2:ca:197:LYS:NZ	2.58	0.60
1:bE:100:LYS:HD2	2:hS:197:LYS:HZ2	1.66	0.60
1:bK:70:GLY:HA2	6:qw:117:LYS:HG2	1.84	0.60
2:bP:197:LYS:NZ	2:lX:62:GLN:HE21	1.99	0.60
2:cn:2:ALA:HB2	1:pA:81:ALA:HA	1.82	0.60
1:cw:91:GLU:HA	2:cO:4:ILE:HD11	1.84	0.60
2:cB:198:GLU:OE2	1:cN:101:VAL:CB	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cI:98:LEU:HD12	2:cS:63:ARG:O	2.01	0.60
2:cQ:197:LYS:NZ	1:pp:99:LEU:C	2.58	0.60
1:cW:98:LEU:HD12	2:dg:63:ARG:O	2.01	0.60
2:de:90:ASP:O	2:de:94:ASP:N	2.34	0.60
2:dg:62:GLN:HE21	2:fp:197:LYS:NZ	1.99	0.60
2:di:141:HIS:N	2:di:148:ASP:O	2.35	0.60
1:dk:66:ARG:NH1	1:dk:75:LYS:O	2.34	0.60
2:dF:2:ALA:HB2	1:pm:81:ALA:HA	1.82	0.60
2:dH:205:MET:SD	2:dK:63:ARG:NE	2.75	0.60
2:dK:239:PHE:O	2:dK:242:VAL:HG22	2.02	0.60
2:dS:4:ILE:HD11	1:oN:91:GLU:HA	1.84	0.60
2:dT:58:GLU:OE1	2:oS:78:LYS:NZ	2.27	0.60
2:dY:239:PHE:O	2:dY:242:VAL:HG22	2.02	0.60
2:dY:278:VAL:HG11	2:dY:295:VAL:O	2.00	0.60
1:eH:100:LYS:N	2:gu:197:LYS:CE	2.60	0.60
2:eI:4:ILE:HD11	1:gk:91:GLU:HA	1.84	0.60
2:eW:163:ALA:HB3	2:eW:265:VAL:HG12	1.82	0.60
2:eX:106:MET:HG3	2:eX:184:TYR:CD1	2.36	0.60
2:fc:239:PHE:O	2:fc:242:VAL:HG22	2.02	0.60
1:fh:58:PHE:CD1	1:fh:101:VAL:HG21	2.37	0.60
1:fu:91:GLU:HA	2:mh:4:ILE:HD11	1.84	0.60
2:fB:205:MET:SD	2:fE:63:ARG:NE	2.75	0.60
1:fI:91:GLU:HA	2:ga:4:ILE:HD11	1.84	0.60
1:fW:91:GLU:HA	2:ig:4:ILE:HD11	1.84	0.60
1:fX:62:THR:HG21	1:fX:101:VAL:HG23	1.84	0.60
2:gd:205:MET:SD	2:gg:63:ARG:NE	2.75	0.60
1:gl:62:THR:HG21	1:gl:101:VAL:HG23	1.84	0.60
2:gp:244:ASP:OD1	2:gp:245:ALA:N	2.34	0.60
2:gr:205:MET:SD	2:gu:63:ARG:NE	2.75	0.60
2:gE:90:ASP:O	2:gE:94:ASP:N	2.34	0.60
2:gG:62:GLN:HE21	2:pk:197:LYS:NZ	1.99	0.60
2:gI:278:VAL:HG11	2:gI:295:VAL:O	2.00	0.60
1:gY:66:ARG:NH1	1:gY:75:LYS:O	2.34	0.60
2:hs:4:ILE:HD11	1:kk:91:GLU:HA	1.84	0.60
2:hx:141:HIS:N	2:hx:148:ASP:O	2.35	0.60
2:hI:107:GLY:HA2	2:hI:184:TYR:HE1	1.66	0.60
1:hM:98:LEU:HD12	2:hW:63:ARG:O	2.01	0.60
1:hM:102:GLU:OE1	2:hU:197:LYS:NZ	2.30	0.60
2:hW:294:LEU:CD2	2:hW:295:VAL:HG23	2.32	0.60
1:iB:81:ALA:HA	2:jN:2:ALA:HB2	1.82	0.60
1:iC:66:ARG:NH1	1:iC:75:LYS:O	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iX:198:GLU:OE2	1:jj:101:VAL:CB	2.48	0.60
2:jM:193:THR:HG22	2:pI:193:THR:CG2	2.31	0.60
2:jM:197:LYS:HZ2	1:pO:100:LYS:HD2	1.66	0.60
1:jU:66:ARG:NH1	1:jU:75:LYS:O	2.34	0.60
2:kd:205:MET:SD	2:kg:63:ARG:NE	2.75	0.60
2:ko:188:MET:CE	5:qH:176:ASN:HD22	1.72	0.60
2:kq:205:MET:SD	2:kt:63:ARG:NE	2.75	0.60
2:kC:198:GLU:OE2	1:kO:101:VAL:CB	2.49	0.60
2:kQ:193:THR:CG2	2:mX:193:THR:HG22	2.31	0.60
2:kS:205:MET:SD	2:kV:63:ARG:NE	2.75	0.60
2:kT:294:LEU:CD2	2:kT:295:VAL:HG23	2.32	0.60
2:ld:193:THR:HG22	2:mK:193:THR:CG2	2.31	0.60
2:le:244:ASP:OD1	2:le:245:ALA:N	2.35	0.60
2:lu:226:LEU:HD13	2:lu:270:LEU:HD13	1.83	0.60
2:lL:239:PHE:O	2:lL:242:VAL:HG22	2.02	0.60
2:IV:90:ASP:O	2:IV:94:ASP:N	2.34	0.60
2:mi:106:MET:HG3	2:mi:184:TYR:CD1	2.36	0.60
2:mj:90:ASP:O	2:mj:94:ASP:N	2.34	0.60
2:ml:107:GLY:HA2	2:ml:184:TYR:HE1	1.66	0.60
2:mn:239:PHE:O	2:mn:242:VAL:HG22	2.02	0.60
1:mo:102:GLU:OE2	1:mu:99:LEU:CD2	2.43	0.60
1:mp:66:ARG:NH1	1:mp:75:LYS:O	2.34	0.60
2:mM:186:GLU:O	2:nn:191:SER:OG	2.08	0.60
2:na:205:MET:SD	2:nd:63:ARG:NE	2.75	0.60
2:nn:90:ASP:O	2:nn:94:ASP:N	2.34	0.60
2:no:205:MET:SD	2:nr:63:ARG:NE	2.75	0.60
2:nA:244:ASP:OD1	2:nA:245:ALA:N	2.35	0.60
2:nQ:197:LYS:CD	1:nZ:99:LEU:HA	2.13	0.60
2:nT:278:VAL:HG11	2:nT:295:VAL:O	2.00	0.60
2:oV:107:GLY:HA2	2:oV:184:TYR:HE1	1.66	0.60
2:pj:107:GLY:HA2	2:pj:184:TYR:HE1	1.66	0.60
2:pj:294:LEU:CD2	2:pj:295:VAL:HG23	2.32	0.60
2:pv:90:ASP:O	2:pv:94:ASP:N	2.35	0.60
2:pz:141:HIS:N	2:pz:148:ASP:O	2.35	0.60
2:pL:294:LEU:CD2	2:pL:295:VAL:HG23	2.32	0.60
1:pP:66:ARG:NH1	1:pP:75:LYS:O	2.34	0.60
2:pX:90:ASP:O	2:pX:94:ASP:N	2.34	0.60
3:qf:66:GLN:C	4:ql:10:GLN:CG	2.74	0.60
4:qj:89:VAL:CG2	4:qk:245:ASP:HB2	2.22	0.60
6:qu:112:LEU:HD23	6:qw:58:LEU:CD2	2.29	0.60
5:qv:252:LEU:CD2	6:qy:126:GLN:CB	2.58	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qv:255:VAL:CG1	5:qx:263:ALA:HB1	2.31	0.60
5:qv:301:LEU:HB2	5:qv:306:THR:HG21	1.82	0.60
5:qx:255:VAL:CG1	5:qz:263:ALA:HB1	2.31	0.60
2:ah:106:MET:HG3	2:ah:184:TYR:CD1	2.36	0.60
2:aj:205:MET:SD	2:am:63:ARG:NE	2.75	0.60
2:am:141:HIS:N	2:am:148:ASP:O	2.35	0.60
2:aH:193:THR:HG22	2:kb:193:THR:CG2	2.31	0.60
2:aJ:224:TRP:CZ2	2:aJ:242:VAL:HG11	2.37	0.60
2:aK:226:LEU:HD13	2:aK:270:LEU:HD13	1.83	0.60
2:aX:117:LEU:HD21	2:aX:211:TYR:HA	1.84	0.60
2:bk:106:MET:HG3	2:bk:184:TYR:CD1	2.36	0.60
2:bD:197:LYS:CA	2:hT:62:GLN:OE1	2.50	0.60
1:bI:58:PHE:CD1	1:bI:101:VAL:HG21	2.37	0.60
2:bY:4:ILE:HD11	1:dm:91:GLU:HA	1.84	0.60
2:bY:193:THR:HG22	2:dr:193:THR:CG2	2.31	0.60
2:ca:117:LEU:HD21	2:ca:211:TYR:HA	1.84	0.60
2:cm:193:THR:HG22	2:iv:193:THR:CG2	2.31	0.60
1:cx:58:PHE:CD1	1:cx:101:VAL:HG21	2.37	0.60
2:cB:2:ALA:HB2	1:cV:81:ALA:HA	1.82	0.60
2:cD:226:LEU:HD13	2:cD:270:LEU:HD13	1.83	0.60
1:cL:58:PHE:CD1	1:cL:101:VAL:HG21	2.37	0.60
2:cR:226:LEU:HD13	2:cR:270:LEU:HD13	1.83	0.60
2:cT:197:LYS:NZ	2:pL:62:GLN:HE21	1.99	0.60
2:de:197:LYS:NZ	1:gy:99:LEU:C	2.58	0.60
1:dy:66:ARG:NH1	1:dy:75:LYS:O	2.34	0.60
2:dG:117:LEU:HD21	2:dG:211:TYR:HA	1.84	0.60
1:dP:62:THR:HG21	1:dP:101:VAL:HG23	1.84	0.60
2:dT:62:GLN:OE1	2:oX:197:LYS:CA	2.50	0.60
2:eZ:205:MET:SD	2:fc:63:ARG:NE	2.75	0.60
2:fc:141:HIS:N	2:fc:148:ASP:O	2.35	0.60
2:fl:244:ASP:OD1	2:fl:245:ALA:N	2.35	0.60
2:fq:197:LYS:CA	2:nA:62:GLN:OE1	2.50	0.60
1:fr:81:ALA:HA	2:gD:2:ALA:HB2	1.82	0.60
2:fz:106:MET:HG3	2:fz:184:TYR:CD1	2.36	0.60
2:fM:163:ALA:HB3	2:fM:265:VAL:HG12	1.82	0.60
2:fM:193:THR:HG22	2:IU:193:THR:CG2	2.31	0.60
2:fS:239:PHE:O	2:fS:242:VAL:HG22	2.02	0.60
2:gc:117:LEU:HD21	2:gc:211:TYR:HA	1.84	0.60
2:ge:62:GLN:HE21	2:mA:197:LYS:NZ	1.99	0.60
2:gg:239:PHE:O	2:gg:242:VAL:HG22	2.02	0.60
2:gu:239:PHE:O	2:gu:242:VAL:HG22	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gz:58:PHE:CD1	1:gz:101:VAL:HG21	2.37	0.60
2:gR:193:THR:CG2	2:IT:193:THR:HG22	2.31	0.60
2:gT:226:LEU:HD13	2:gT:270:LEU:HD13	1.83	0.60
2:gU:294:LEU:CD2	2:gU:295:VAL:HG23	2.32	0.60
2:gW:141:HIS:N	2:gW:148:ASP:O	2.35	0.60
1:hb:62:THR:HG21	1:hb:101:VAL:HG23	1.84	0.60
2:hf:106:MET:HG3	2:hf:184:TYR:CD1	2.36	0.60
2:ik:62:GLN:HE21	2:nE:197:LYS:NZ	1.99	0.60
2:ix:205:MET:SD	2:iA:63:ARG:NE	2.75	0.60
1:IT:58:PHE:CD1	1:IT:101:VAL:HG21	2.37	0.60
2:iY:90:ASP:O	2:iY:94:ASP:N	2.34	0.60
2:jn:226:LEU:HD13	2:jn:270:LEU:HD13	1.83	0.60
2:jP:226:LEU:HD13	2:jP:270:LEU:HD13	1.83	0.60
2:jS:239:PHE:O	2:jS:242:VAL:HG22	2.02	0.60
2:kg:239:PHE:O	2:kg:242:VAL:HG22	2.02	0.60
2:kt:103:MET:HE2	5:qD:56:ASN:CA	2.30	0.60
2:kC:193:THR:CG2	2:kP:193:THR:HG22	2.31	0.60
2:kE:226:LEU:HD13	2:kE:270:LEU:HD13	1.83	0.60
2:kR:224:TRP:CZ2	2:kR:242:VAL:HG11	2.37	0.60
2:kU:233:GLU:O	2:kU:237:VAL:HG22	2.02	0.60
1:kX:98:LEU:HD12	2:lh:63:ARG:O	2.01	0.60
2:le:62:GLN:OE1	2:mP:197:LYS:CA	2.50	0.60
2:le:106:MET:HG3	2:le:184:TYR:CD1	2.36	0.60
2:lg:205:MET:SD	2:lj:63:ARG:NE	2.75	0.60
2:lg:226:LEU:HD13	2:lg:270:LEU:HD13	1.83	0.60
2:mx:117:LEU:HD21	2:mx:211:TYR:HA	1.84	0.60
2:mJ:193:THR:HG22	2:oq:193:THR:CG2	2.31	0.60
1:mU:58:PHE:CD1	1:mU:101:VAL:HG21	2.37	0.60
2:nl:4:ILE:HD11	1:oz:91:GLU:HA	1.84	0.60
2:np:294:LEU:CD2	2:np:295:VAL:HG23	2.32	0.60
2:nD:294:LEU:CD2	2:nD:295:VAL:HG23	2.32	0.60
2:nP:117:LEU:HD21	2:nP:211:TYR:HA	1.84	0.60
2:nS:233:GLU:O	2:nS:237:VAL:HG22	2.02	0.60
2:oe:205:MET:SD	2:oh:63:ARG:NE	2.75	0.60
1:om:58:PHE:CD1	1:om:101:VAL:HG21	2.37	0.60
2:oF:117:LEU:HD21	2:oF:211:TYR:HA	1.84	0.60
2:oR:163:ALA:HB3	2:oR:265:VAL:HG12	1.82	0.60
2:pi:226:LEU:HD13	2:pi:270:LEU:HD13	1.83	0.60
2:pl:141:HIS:N	2:pl:148:ASP:O	2.35	0.60
1:pn:66:ARG:NH1	1:pn:75:LYS:O	2.34	0.60
1:pB:98:LEU:HD12	2:pL:63:ARG:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:pE:58:PHE:CD1	1:pE:101:VAL:HG21	2.37	0.60
2:pH:67:ASP:OD1	1:pO:95:SER:OG	2.13	0.60
2:pI:244:ASP:OD1	2:pI:245:ALA:N	2.35	0.60
1:pS:62:THR:HG21	1:pS:101:VAL:HG23	1.84	0.60
2:pW:134:GLN:OE1	2:pW:134:GLN:N	2.30	0.60
3:qi:38:SER:O	3:qi:40:GLN:NE2	2.34	0.60
5:qv:245:ASP:OD1	6:qy:121:VAL:CG2	2.50	0.60
6:qy:112:LEU:HD21	6:qA:58:LEU:CD1	0.94	0.60
5:qz:301:LEU:HB2	5:qz:306:THR:HG21	1.82	0.60
6:qA:48:ILE:HG21	6:qA:67:LEU:CD1	2.31	0.60
6:qE:15:GLU:OE1	6:qE:19:ARG:NH1	2.34	0.60
2:ah:193:THR:CG2	2:or:193:THR:HG22	2.31	0.60
2:ax:62:GLN:HE21	2:gt:197:LYS:NZ	1.99	0.60
2:aI:198:GLU:OE2	1:iV:101:VAL:CB	2.49	0.60
2:aV:4:ILE:HD11	1:iE:91:GLU:HA	1.84	0.60
1:bg:58:PHE:CD1	1:bg:101:VAL:HG21	2.37	0.60
1:bt:91:GLU:HA	2:hS:4:ILE:HD11	1.84	0.60
2:bA:205:MET:SD	2:bD:63:ARG:NE	2.75	0.60
2:bN:205:MET:SD	2:bQ:63:ARG:NE	2.75	0.60
2:bZ:106:MET:HG3	2:bZ:184:TYR:CD1	2.36	0.60
2:ce:197:LYS:CA	2:iJ:62:GLN:OE1	2.50	0.60
2:cn:134:GLN:OE1	2:cn:134:GLN:N	2.30	0.60
2:cp:226:LEU:HD13	2:cp:270:LEU:HD13	1.83	0.60
1:cu:66:ARG:NH1	1:cu:75:LYS:O	2.34	0.60
1:cy:102:GLU:CD	1:nH:99:LEU:HD21	2.27	0.60
1:cz:100:LYS:N	2:pl:197:LYS:CE	2.60	0.60
2:cA:193:THR:HG22	2:pg:193:THR:CG2	2.31	0.60
2:cB:244:ASP:OD1	2:cB:245:ALA:N	2.34	0.60
2:cD:205:MET:SD	2:cG:63:ARG:NE	2.75	0.60
2:cP:2:ALA:HB2	1:fd:81:ALA:HA	1.82	0.60
2:cP:205:MET:CE	2:eX:63:ARG:HE	2.15	0.60
2:cT:233:GLU:O	2:cT:237:VAL:HG22	2.02	0.60
2:dw:141:HIS:N	2:dw:148:ASP:O	2.35	0.60
1:dD:100:LYS:N	2:fc:197:LYS:CE	2.60	0.60
2:dF:62:GLN:OE1	2:fc:197:LYS:CA	2.50	0.60
2:dG:90:ASP:O	2:dG:94:ASP:N	2.34	0.60
2:dJ:233:GLU:O	2:dJ:237:VAL:HG22	2.02	0.60
1:dP:58:PHE:CD1	1:dP:101:VAL:HG21	2.37	0.60
2:dT:193:THR:CG2	2:nN:193:THR:HG22	2.31	0.60
1:ed:58:PHE:CD1	1:ed:101:VAL:HG21	2.37	0.60
1:eq:91:GLU:HA	2:gC:4:ILE:HD11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:er:58:PHE:CD1	1:er:101:VAL:HG21	2.37	0.60
2:ex:205:MET:SD	2:eA:63:ARG:NE	2.75	0.60
2:eA:141:HIS:N	2:eA:148:ASP:O	2.35	0.60
2:eK:90:ASP:O	2:eK:94:ASP:N	2.34	0.60
2:eN:233:GLU:O	2:eN:237:VAL:HG22	2.02	0.60
2:fa:107:GLY:HA2	2:fa:184:TYR:HE1	1.66	0.60
2:fc:294:LEU:CD2	2:fc:295:VAL:HG23	2.26	0.60
2:fS:197:LYS:CA	2:gb:62:GLN:OE1	2.50	0.60
1:gl:58:PHE:CD1	1:gl:101:VAL:HG21	2.37	0.60
2:go:4:ILE:HD11	1:hO:91:GLU:HA	1.84	0.60
2:gF:205:MET:SD	2:gI:63:ARG:NE	2.75	0.60
2:gV:233:GLU:O	2:gV:237:VAL:HG22	2.02	0.60
1:hc:102:GLU:CD	1:ox:99:LEU:HD21	2.27	0.60
2:hf:2:ALA:HB2	1:kI:81:ALA:HA	1.82	0.60
2:hf:62:GLN:OE1	2:IL:197:LYS:CA	2.50	0.60
1:hm:99:LEU:HD21	1:iU:102:GLU:CD	2.27	0.60
1:hp:62:THR:HG21	1:hp:101:VAL:HG23	1.84	0.60
2:hu:205:MET:SD	2:hx:63:ARG:NE	2.75	0.60
1:hM:66:ARG:NH1	1:hM:75:LYS:O	2.34	0.60
1:hP:58:PHE:CD1	1:hP:101:VAL:HG21	2.37	0.60
2:hU:90:ASP:O	2:hU:94:ASP:N	2.34	0.60
2:il:197:LYS:NZ	2:nD:62:GLN:HE21	1.99	0.60
2:im:239:PHE:O	2:im:242:VAL:HG22	2.02	0.60
1:ir:62:THR:HG21	1:ir:101:VAL:HG23	1.84	0.60
2:iu:4:ILE:HD11	1:jI:91:GLU:HA	1.84	0.60
1:iF:58:PHE:CD1	1:iF:101:VAL:HG21	2.37	0.60
2:iL:226:LEU:HD13	2:iL:270:LEU:HD13	1.83	0.60
1:iQ:66:ARG:NH1	1:iQ:75:LYS:O	2.34	0.60
1:je:66:ARG:NH1	1:je:75:LYS:O	2.34	0.60
2:jn:205:MET:SD	2:jQ:63:ARG:NE	2.75	0.60
2:jy:4:ILE:HD11	1:kZ:91:GLU:HA	1.84	0.60
2:jE:197:LYS:CE	1:pU:100:LYS:N	2.60	0.60
2:jP:205:MET:SD	2:jS:63:ARG:NE	2.75	0.60
2:kf:197:LYS:NZ	2:pZ:62:GLN:HE21	1.99	0.60
1:ky:58:PHE:CD1	1:ky:101:VAL:HG21	2.37	0.60
2:kB:163:ALA:HB3	2:kB:265:VAL:HG12	1.82	0.60
2:kC:205:MET:CE	2:kQ:63:ARG:HE	2.15	0.60
1:kM:58:PHE:CD1	1:kM:101:VAL:HG21	2.37	0.60
2:kV:197:LYS:CA	2:mY:62:GLN:OE1	2.50	0.60
2:li:197:LYS:NZ	2:np:62:GLN:HE21	1.99	0.60
2:lF:4:ILE:HD11	1:mT:91:GLU:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IH:90:ASP:O	2:IH:94:ASP:N	2.34	0.60
1:ms:62:THR:HG21	1:ms:101:VAL:HG23	1.84	0.60
2:mK:62:GLN:OE1	2:ov:197:LYS:CA	2.50	0.60
2:nb:294:LEU:CD2	2:nb:295:VAL:HG23	2.32	0.60
1:nf:98:LEU:HD12	2:np:63:ARG:O	2.01	0.60
2:nq:233:GLU:O	2:nq:237:VAL:HG22	2.02	0.60
2:nF:239:PHE:O	2:nF:242:VAL:HG22	2.02	0.60
2:nO:205:MET:CE	2:oc:63:ARG:HE	2.15	0.60
2:oh:141:HIS:N	2:oh:148:ASP:O	2.35	0.60
2:or:117:LEU:HD21	2:or:211:TYR:HA	1.84	0.60
2:oE:244:ASP:OD1	2:oE:245:ALA:N	2.34	0.60
2:oT:90:ASP:O	2:oT:94:ASP:N	2.35	0.60
2:pg:219:VAL:O	2:pg:219:VAL:HG12	1.99	0.60
2:pz:197:LYS:CA	2:pI:62:GLN:OE1	2.50	0.60
2:pz:239:PHE:O	2:pz:242:VAL:HG22	2.02	0.60
2:pz:278:VAL:HG11	2:pz:295:VAL:O	2.00	0.60
2:pN:141:HIS:N	2:pN:148:ASP:O	2.35	0.60
2:qa:233:GLU:O	2:qa:237:VAL:HG22	2.02	0.60
3:qe:61:ASP:CB	4:qm:33:SER:CB	2.78	0.60
4:qm:64:LYS:HZ2	4:qn:53:GLN:HG2	1.64	0.60
6:qq:121:VAL:CG2	5:qL:245:ASP:OD1	2.50	0.60
6:qs:15:GLU:OE1	6:qs:19:ARG:NH1	2.34	0.60
6:qK:48:ILE:HG21	6:qK:67:LEU:CD1	2.32	0.60
1:ar:58:PHE:CD1	1:ar:101:VAL:HG21	2.37	0.60
1:aB:66:ARG:NH1	1:aB:75:LYS:O	2.34	0.60
1:aG:100:LYS:N	2:kg:197:LYS:CE	2.60	0.60
1:aP:102:GLU:OE1	2:aX:197:LYS:NZ	2.29	0.60
2:aW:62:GLN:OE1	2:iO:197:LYS:CA	2.50	0.60
2:ba:233:GLU:O	2:ba:237:VAL:HG22	2.02	0.60
2:bb:239:PHE:O	2:bb:242:VAL:HG22	2.02	0.60
1:bd:98:LEU:HD12	2:bn:63:ARG:O	2.01	0.60
2:bl:224:TRP:CZ2	2:bl:242:VAL:HG11	2.37	0.60
1:bu:62:THR:HG21	1:bu:101:VAL:HG23	1.84	0.60
2:bL:4:ILE:HD11	1:hB:91:GLU:HA	1.84	0.60
2:ca:224:TRP:CZ2	2:ca:242:VAL:HG11	2.37	0.60
1:ci:91:GLU:HA	2:pt:4:ILE:HD11	1.84	0.60
1:cl:101:VAL:CB	2:iv:198:GLU:OE2	2.49	0.60
2:cn:205:MET:CE	2:pu:63:ARG:HE	2.15	0.60
1:cx:62:THR:HG21	1:cx:101:VAL:HG23	1.84	0.60
2:cQ:117:LEU:HD21	2:cQ:211:TYR:HA	1.84	0.60
2:cR:205:MET:SD	2:cU:63:ARG:NE	2.75	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:da:99:LEU:HA	2:eL:197:LYS:CD	2.13	0.60
2:dT:78:LYS:NZ	2:nO:58:GLU:OE1	2.27	0.60
2:dX:233:GLU:O	2:dX:237:VAL:HG22	2.02	0.60
2:ew:117:LEU:HD21	2:ew:211:TYR:HA	1.84	0.60
2:eI:163:ALA:HB3	2:eI:265:VAL:HG12	1.82	0.60
2:eO:239:PHE:O	2:eO:242:VAL:HG22	2.02	0.60
2:eX:219:VAL:O	2:eX:219:VAL:HG12	1.99	0.60
2:eX:244:ASP:OD1	2:eX:245:ALA:N	2.34	0.60
1:fe:98:LEU:HD12	2:fo:63:ARG:O	2.01	0.60
2:fl:62:GLN:OE1	2:gl:197:LYS:CA	2.50	0.60
2:fm:117:LEU:HD21	2:fm:211:TYR:HA	1.84	0.60
2:fD:233:GLU:O	2:fD:237:VAL:HG22	2.02	0.60
2:gb:134:GLN:OE1	2:gb:134:GLN:N	2.30	0.60
2:gR:106:MET:HG3	2:gR:184:TYR:CD1	2.36	0.60
2:hu:226:LEU:HD13	2:hu:270:LEU:HD13	1.83	0.60
2:hw:197:LYS:NZ	2:ja:62:GLN:HE21	1.99	0.60
1:hz:66:ARG:NH1	1:hz:75:LYS:O	2.34	0.60
1:hz:98:LEU:HD12	2:hI:63:ARG:O	2.01	0.60
2:hF:91:ILE:CD1	5:qx:178:PRO:HD3	2.32	0.60
2:hH:205:MET:SD	2:hK:63:ARG:NE	2.75	0.60
2:hK:141:HIS:N	2:hK:148:ASP:O	2.35	0.60
2:hV:226:LEU:HD13	2:hV:270:LEU:HD13	1.83	0.60
2:hX:233:GLU:O	2:hX:237:VAL:HG22	2.02	0.60
2:iv:106:MET:HG3	2:iv:184:TYR:CD1	2.36	0.60
2:iA:36:THR:O	2:iA:175:THR:OG1	2.18	0.60
2:iO:239:PHE:O	2:iO:242:VAL:HG22	2.02	0.60
2:jl:193:THR:CG2	2:lr:193:THR:HG22	2.31	0.60
2:jm:90:ASP:O	2:jm:94:ASP:N	2.34	0.60
2:jm:224:TRP:CZ2	2:jm:242:VAL:HG11	2.37	0.60
2:jp:233:GLU:O	2:jp:237:VAL:HG22	2.02	0.60
2:jQ:197:LYS:CA	2:ls:62:GLN:OE1	2.50	0.60
1:jv:58:PHE:CD1	1:jv:101:VAL:HG21	2.37	0.60
2:jA:224:TRP:CZ2	2:jA:242:VAL:HG11	2.37	0.60
1:jX:58:PHE:CD1	1:jX:101:VAL:HG21	2.37	0.60
2:ke:62:GLN:HE21	2:qa:197:LYS:NZ	1.99	0.60
2:kg:278:VAL:HG11	2:kg:295:VAL:O	2.00	0.60
1:ki:102:GLU:OE1	2:kp:197:LYS:NZ	2.30	0.60
2:kD:90:ASP:O	2:kD:94:ASP:N	2.34	0.60
2:kH:239:PHE:O	2:kH:242:VAL:HG22	2.02	0.60
1:la:58:PHE:CD1	1:la:101:VAL:HG21	2.37	0.60
2:lf:224:TRP:CZ2	2:lf:242:VAL:HG11	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ls:244:ASP:OD1	2:ls:245:ALA:N	2.35	0.60
2:lx:141:HIS:N	2:lx:148:ASP:O	2.35	0.60
2:lH:117:LEU:HD21	2:lH:211:TYR:HA	1.84	0.60
1:lN:66:ARG:NH1	1:lN:75:LYS:O	2.34	0.60
2:mi:205:MET:CE	2:mw:63:ARG:HE	2.15	0.60
2:mm:233:GLU:O	2:mm:237:VAL:HG22	2.02	0.60
1:mG:58:PHE:CD1	1:mG:101:VAL:HG21	2.37	0.60
2:mK:63:ARG:HE	2:oq:205:MET:CE	2.15	0.60
2:mL:90:ASP:O	2:mL:94:ASP:N	2.34	0.60
2:mL:117:LEU:HD21	2:mL:211:TYR:HA	1.84	0.60
2:mL:224:TRP:CZ2	2:mL:242:VAL:HG11	2.37	0.60
2:mP:141:HIS:N	2:mP:148:ASP:O	2.35	0.60
1:nf:66:ARG:NH1	1:nf:75:LYS:O	2.34	0.60
1:nK:58:PHE:CD1	1:nK:101:VAL:HG21	2.37	0.60
2:os:226:LEU:HD13	2:os:270:LEU:HD13	1.83	0.60
2:ot:107:GLY:HA2	2:ot:184:TYR:HE1	1.66	0.60
2:ou:233:GLU:O	2:ou:237:VAL:HG22	2.02	0.60
2:ov:141:HIS:N	2:ov:148:ASP:O	2.35	0.60
1:oA:58:PHE:CD1	1:oA:101:VAL:HG21	2.37	0.60
2:oS:106:MET:HG3	2:oS:184:TYR:CD1	2.36	0.60
2:oW:233:GLU:O	2:oW:237:VAL:HG22	2.02	0.60
1:oZ:66:ARG:NH1	1:oZ:75:LYS:O	2.34	0.60
2:pl:239:PHE:O	2:pl:242:VAL:HG22	2.02	0.60
1:pp:91:GLU:HA	2:pH:4:ILE:HD11	1.84	0.60
3:qi:25:LEU:HD21	6:qq:82:VAL:CB	2.31	0.60
4:qm:105:LEU:N	4:qm:161:GLN:OE1	2.34	0.60
4:qo:105:LEU:N	4:qo:161:GLN:OE1	2.34	0.60
5:qt:245:ASP:OD1	6:qw:121:VAL:CG2	2.50	0.60
5:qx:245:ASP:OD1	6:qA:121:VAL:CG2	2.50	0.60
6:qC:48:ILE:HG21	6:qC:67:LEU:CD1	2.32	0.60
2:aj:85:GLY:O	2:oR:2:ALA:N	2.35	0.60
1:aq:91:GLU:HA	2:ko:4:ILE:HD11	1.84	0.60
1:as:102:GLU:CD	1:gi:99:LEU:HD21	2.27	0.60
1:aF:99:LEU:CA	2:kd:197:LYS:CD	2.69	0.60
2:aK:85:GLY:O	2:iW:2:ALA:N	2.35	0.60
2:aM:233:GLU:O	2:aM:237:VAL:HG22	2.02	0.60
2:aW:63:ARG:HE	2:iJ:205:MET:CE	2.15	0.60
2:aZ:62:GLN:HE21	2:py:197:LYS:NZ	1.99	0.60
2:bb:197:LYS:CA	2:bk:62:GLN:OE1	2.50	0.60
2:by:62:GLN:OE1	2:di:197:LYS:CA	2.50	0.60
2:by:63:ARG:HE	2:dd:205:MET:CE	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bG:99:LEU:CD1	1:gL:60:ARG:NH1	2.25	0.60
1:bV:62:THR:HG21	1:bV:101:VAL:HG23	1.84	0.60
2:bZ:205:MET:CE	2:iJ:63:ARG:HE	2.15	0.60
2:cb:85:GLY:O	2:iI:2:ALA:N	2.35	0.60
2:cs:141:HIS:N	2:cs:148:ASP:O	2.35	0.60
2:cB:62:GLN:OE1	2:pl:197:LYS:CA	2.50	0.60
1:cK:99:LEU:C	2:iK:197:LYS:NZ	2.58	0.60
2:cP:244:ASP:OD1	2:cP:245:ALA:N	2.34	0.60
2:cU:239:PHE:O	2:cU:242:VAL:HG22	2.02	0.60
1:cW:66:ARG:NH1	1:cW:75:LYS:O	2.34	0.60
1:cZ:58:PHE:CD1	1:cZ:101:VAL:HG21	2.37	0.60
1:db:101:VAL:CB	2:eJ:198:GLU:OE2	2.49	0.60
2:df:205:MET:SD	2:di:63:ARG:NE	2.75	0.60
1:dn:62:THR:HG21	1:dn:101:VAL:HG23	1.84	0.60
2:dt:205:MET:SD	2:dw:63:ARG:NE	2.75	0.60
2:dF:63:ARG:HE	2:eX:205:MET:CE	2.15	0.60
2:dH:197:LYS:CD	1:pd:99:LEU:CA	2.69	0.60
1:dR:101:VAL:CB	2:oS:198:GLU:OE2	2.49	0.60
2:dT:205:MET:CE	2:nO:63:ARG:HE	2.15	0.60
1:ea:98:LEU:HD12	2:ek:63:ARG:O	2.01	0.60
2:em:197:LYS:CA	2:ev:62:GLN:OE1	2.50	0.60
2:ew:224:TRP:CZ2	2:ew:242:VAL:HG11	2.37	0.60
2:ex:62:GLN:HG3	1:nI:102:GLU:HB3	1.84	0.60
2:eA:197:LYS:CA	2:gD:62:GLN:OE1	2.50	0.60
2:eJ:106:MET:HG3	2:eJ:184:TYR:CD1	2.36	0.60
2:eL:226:LEU:HD13	2:eL:270:LEU:HD13	1.83	0.60
1:eT:58:PHE:CD1	1:eT:101:VAL:HG21	2.37	0.60
1:fg:105:THR:HG21	2:nB:60:ILE:HG22	1.57	0.60
2:fk:2:ALA:N	2:gF:85:GLY:O	2.35	0.60
2:fm:224:TRP:CZ2	2:fm:242:VAL:HG11	2.37	0.60
2:fn:85:GLY:O	2:nz:2:ALA:N	2.35	0.60
1:fv:58:PHE:CD1	1:fv:101:VAL:HG21	2.37	0.60
2:fz:134:GLN:OE1	2:fz:134:GLN:N	2.30	0.60
2:fM:4:ILE:HD11	1:lP:91:GLU:HA	1.84	0.60
2:fP:226:LEU:HD13	2:fP:270:LEU:HD13	1.83	0.60
2:gb:106:MET:HG3	2:gb:184:TYR:CD1	2.36	0.60
1:gh:100:LYS:HD2	2:ig:197:LYS:HZ2	1.66	0.60
1:gi:66:ARG:NH1	1:gi:75:LYS:O	2.34	0.60
2:gq:224:TRP:CZ2	2:gq:242:VAL:HG11	2.37	0.60
2:gr:226:LEU:HD13	2:gr:270:LEU:HD13	1.83	0.60
2:gu:141:HIS:N	2:gu:148:ASP:O	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gD:244:ASP:OD1	2:gD:245:ALA:N	2.34	0.60
2:gR:134:GLN:OE1	2:gR:134:GLN:N	2.30	0.60
1:hb:58:PHE:CD1	1:hb:101:VAL:HG21	2.37	0.60
1:hd:100:LYS:N	2:IL:197:LYS:CE	2.60	0.60
2:he:193:THR:HG22	2:IG:193:THR:CG2	2.31	0.60
2:hs:111:GLY:HA2	5:qB:176:ASN:CG	2.27	0.60
1:hz:99:LEU:HD21	1:kN:102:GLU:CD	2.27	0.60
2:hT:106:MET:HG3	2:hT:184:TYR:CD1	2.36	0.60
2:hY:141:HIS:N	2:hY:148:ASP:O	2.35	0.60
1:ia:99:LEU:HD21	1:nx:102:GLU:CD	2.27	0.60
2:iw:224:TRP:CZ2	2:iw:242:VAL:HG11	2.37	0.60
2:iZ:205:MET:SD	2:jC:63:ARG:NE	2.75	0.60
2:jz:62:GLN:OE1	2:lj:197:LYS:CA	2.50	0.60
2:jE:141:HIS:N	2:jE:148:ASP:O	2.35	0.60
1:jG:66:ARG:NH1	1:jG:75:LYS:O	2.34	0.60
2:jM:2:ALA:N	2:pK:85:GLY:O	2.35	0.60
2:jS:141:HIS:N	2:jS:148:ASP:O	2.35	0.60
2:kt:103:MET:CE	5:qD:56:ASN:HA	2.28	0.60
2:kt:278:VAL:HG11	2:kt:295:VAL:O	2.00	0.60
2:kC:244:ASP:OD1	2:kC:245:ALA:N	2.34	0.60
1:kL:91:GLU:HA	2:mX:4:ILE:HD11	1.84	0.60
2:kV:141:HIS:N	2:kV:148:ASP:O	2.35	0.60
1:lc:100:LYS:N	2:mP:197:LYS:CE	2.60	0.60
2:lf:90:ASP:O	2:lf:94:ASP:N	2.34	0.60
2:lj:239:PHE:O	2:lj:242:VAL:HG22	2.02	0.60
2:IG:63:ARG:HE	2:mY:205:MET:CE	2.15	0.60
2:IG:244:ASP:OD1	2:IG:245:ALA:N	2.34	0.60
2:IH:224:TRP:CZ2	2:IH:242:VAL:HG11	2.37	0.60
2:IZ:239:PHE:O	2:IZ:242:VAL:HG22	2.02	0.60
1:mo:100:LYS:CG	1:mu:100:LYS:HZ1	2.06	0.60
2:mB:53:PHE:O	2:mB:255:ARG:NH2	2.35	0.60
2:mB:239:PHE:O	2:mB:242:VAL:HG22	2.02	0.60
1:mD:66:ARG:NH1	1:mD:75:LYS:O	2.34	0.60
1:mG:62:THR:HG21	1:mG:101:VAL:HG23	1.84	0.60
2:mN:294:LEU:CD2	2:mN:295:VAL:HG23	2.32	0.60
2:nl:163:ALA:HB3	2:nl:265:VAL:HG12	1.82	0.60
1:nw:58:PHE:CD1	1:nw:101:VAL:HG21	2.37	0.60
2:nA:106:MET:HG3	2:nA:184:TYR:CD1	2.36	0.60
1:nK:62:THR:HG21	1:nK:101:VAL:HG23	1.84	0.60
2:nN:163:ALA:HB3	2:nN:265:VAL:HG12	1.82	0.60
2:of:294:LEU:CD2	2:of:295:VAL:HG23	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:op:2:ALA:N	2:pY:85:GLY:O	2.35	0.60
1:oA:62:THR:HG21	1:oA:101:VAL:HG23	1.84	0.60
2:oU:226:LEU:HD13	2:oU:270:LEU:HD13	1.83	0.60
2:ph:224:TRP:CZ2	2:ph:242:VAL:HG11	2.37	0.60
2:pw:85:GLY:O	2:pH:2:ALA:N	2.35	0.60
3:qe:68:ALA:HB2	4:qm:8:TYR:HH	1.63	0.60
4:qj:54:LYS:HG3	4:qo:63:GLY:HA2	1.84	0.60
6:qq:15:GLU:OE1	6:qq:19:ARG:NH1	2.34	0.60
6:qw:15:GLU:OE1	6:qw:19:ARG:NH1	2.34	0.60
6:qw:48:ILE:HG21	6:qw:67:LEU:CD1	2.32	0.60
6:qy:109:SER:HB3	6:qA:53:HIS:HB3	1.84	0.60
5:qz:245:ASP:OD1	6:qC:121:VAL:CG2	2.50	0.60
6:qA:109:SER:HB3	6:qC:53:HIS:HB3	1.84	0.60
6:qC:15:GLU:OE1	6:qC:19:ARG:NH1	2.34	0.60
5:qD:245:ASP:OD1	6:qG:121:VAL:CG2	2.50	0.60
1:ad:58:PHE:CD1	1:ad:101:VAL:HG21	2.37	0.59
2:au:107:GLY:HA3	5:qL:176:ASN:OD1	2.02	0.59
2:aV:2:ALA:N	2:iL:85:GLY:O	2.35	0.59
2:aZ:107:GLY:CA	2:aZ:184:TYR:CE1	2.85	0.59
1:br:66:ARG:NH1	1:br:75:LYS:O	2.34	0.59
2:by:193:THR:CG2	2:hS:193:THR:HG22	2.31	0.59
2:by:205:MET:HE2	2:hT:63:ARG:HD2	1.84	0.59
2:bN:62:GLN:HG3	1:gL:102:GLU:HB3	1.84	0.59
2:bQ:239:PHE:O	2:bQ:242:VAL:HG22	2.02	0.59
1:bS:99:LEU:HD21	1:hQ:102:GLU:CD	2.27	0.59
2:bZ:62:GLN:OE1	2:dw:197:LYS:CA	2.50	0.59
2:bZ:244:ASP:OD1	2:bZ:245:ALA:N	2.34	0.59
2:cd:233:GLU:O	2:cd:237:VAL:HG22	2.02	0.59
2:ce:141:HIS:N	2:ce:148:ASP:O	2.35	0.59
2:cn:62:GLN:OE1	2:iA:197:LYS:CA	2.50	0.59
2:cs:239:PHE:O	2:cs:242:VAL:HG22	2.02	0.59
2:cR:62:GLN:HG3	1:po:102:GLU:HB3	1.84	0.59
2:cR:85:GLY:O	2:eW:2:ALA:N	2.35	0.59
2:cU:141:HIS:N	2:cU:148:ASP:O	2.35	0.59
2:dd:244:ASP:OD1	2:dd:245:ALA:N	2.34	0.59
2:di:239:PHE:O	2:di:242:VAL:HG22	2.02	0.59
2:dV:205:MET:SD	2:dY:63:ARG:NE	2.75	0.59
1:eo:98:LEU:HD12	2:ey:63:ARG:O	2.01	0.59
1:eF:58:PHE:CD1	1:eF:101:VAL:HG21	2.37	0.59
2:fo:294:LEU:CD2	2:fo:295:VAL:HG23	2.32	0.59
2:fz:78:LYS:NZ	2:mi:58:GLU:OE1	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fA:224:TRP:CZ2	2:fA:242:VAL:HG11	2.37	0.59
1:fJ:58:PHE:CD1	1:fJ:101:VAL:HG21	2.37	0.59
2:fS:141:HIS:N	2:fS:148:ASP:O	2.35	0.59
1:fX:58:PHE:CD1	1:fX:101:VAL:HG21	2.37	0.59
2:gd:85:GLY:O	2:ig:2:ALA:N	2.35	0.59
2:gg:197:LYS:CA	2:ih:62:GLN:OE1	2.50	0.59
1:gi:98:LEU:HD12	2:gs:63:ARG:O	2.01	0.59
2:go:2:ALA:N	2:hV:85:GLY:O	2.35	0.59
2:gR:63:ARG:HE	2:ih:205:MET:CE	2.15	0.59
2:gR:205:MET:CE	2:lU:63:ARG:HE	2.15	0.59
2:gS:90:ASP:O	2:gS:94:ASP:N	2.34	0.59
2:hF:205:MET:CE	2:kC:63:ARG:HE	2.15	0.59
1:hn:103:ARG:NH2	2:kS:59:TRP:O	2.34	0.59
1:hp:58:PHE:CD1	1:hp:101:VAL:HG21	2.37	0.59
2:hv:62:GLN:HE21	2:jb:197:LYS:NZ	1.99	0.59
2:hw:171:TYR:OH	2:hw:175:THR:OG1	2.12	0.59
2:hx:239:PHE:O	2:hx:242:VAL:HG22	2.02	0.59
2:hY:239:PHE:O	2:hY:242:VAL:HG22	2.02	0.59
1:ia:66:ARG:NH1	1:ia:75:LYS:O	2.34	0.59
2:iy:294:LEU:CD2	2:iy:295:VAL:HG23	2.32	0.59
2:jC:197:LYS:CA	2:jl:62:GLN:OE1	2.50	0.59
2:jl:205:MET:CE	2:ls:63:ARG:HE	2.15	0.59
2:jo:294:LEU:CD2	2:jo:295:VAL:HG23	2.32	0.59
1:ju:91:GLU:HA	2:pV:4:ILE:HD11	1.84	0.59
2:jO:224:TRP:CZ2	2:jO:242:VAL:HG11	2.37	0.59
2:ke:294:LEU:CD2	2:ke:295:VAL:HG23	2.32	0.59
1:kl:62:THR:HG21	1:kl:101:VAL:HG23	1.84	0.59
2:kR:90:ASP:O	2:kR:94:ASP:N	2.34	0.59
2:kR:117:LEU:HD21	2:kR:211:TYR:HA	1.84	0.59
2:lJ:107:GLY:CA	2:lJ:184:TYR:CE1	2.86	0.59
2:lJ:294:LEU:CD2	2:lJ:295:VAL:HG23	2.32	0.59
2:lV:117:LEU:HD21	2:lV:211:TYR:HA	1.84	0.59
2:lW:205:MET:SD	2:lZ:63:ARG:NE	2.75	0.59
2:lY:233:GLU:O	2:lY:237:VAL:HG22	2.02	0.59
2:nm:63:ARG:HD2	2:oE:205:MET:HE2	1.84	0.59
2:nB:224:TRP:CZ2	2:nB:242:VAL:HG11	2.37	0.59
2:od:224:TRP:CZ2	2:od:242:VAL:HG11	2.37	0.59
2:oF:224:TRP:CZ2	2:oF:242:VAL:HG11	2.37	0.59
2:pg:244:ASP:OD1	2:pg:245:ALA:N	2.35	0.59
1:pq:62:THR:HG21	1:pq:101:VAL:HG23	1.84	0.59
1:pP:98:LEU:HD12	2:pZ:63:ARG:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qe:65:GLY:O	4:qm:8:TYR:CD2	2.55	0.59
3:qh:64:GLY:C	4:qo:220:SER:O	2.43	0.59
5:qp:114:LEU:HD23	5:qL:96:ARG:CD	2.11	0.59
6:qq:48:ILE:HG21	6:qq:67:LEU:CD1	2.32	0.59
5:qr:245:ASP:OD1	6:qu:121:VAL:CG2	2.50	0.59
5:qt:255:VAL:CG1	5:qv:263:ALA:HB1	2.31	0.59
6:qC:109:SER:HB3	6:qE:53:HIS:HB3	1.84	0.59
1:an:103:ARG:HG2	2:oS:61:GLY:HA2	1.84	0.59
1:ao:102:GLU:OE1	2:av:197:LYS:NZ	2.29	0.59
2:av:90:ASP:O	2:av:94:ASP:N	2.34	0.59
2:az:53:PHE:O	2:az:255:ARG:NH2	2.36	0.59
2:aI:106:MET:HG3	2:aI:184:TYR:CD1	2.36	0.59
2:aN:197:LYS:CA	2:iX:62:GLN:OE1	2.50	0.59
2:aW:244:ASP:OD1	2:aW:245:ALA:N	2.34	0.59
1:br:102:GLU:OE1	2:bz:197:LYS:NZ	2.29	0.59
2:bL:2:ALA:N	2:hH:85:GLY:O	2.35	0.59
2:bM:224:TRP:CZ2	2:bM:242:VAL:HG11	2.37	0.59
1:cG:66:ARG:NH1	1:cG:75:LYS:O	2.34	0.59
1:cj:62:THR:HG21	1:cj:101:VAL:HG23	1.84	0.59
2:cp:205:MET:SD	2:cs:63:ARG:NE	2.75	0.59
2:cq:62:GLN:HE21	2:lw:197:LYS:NZ	1.99	0.59
2:cq:107:GLY:CA	2:cq:184:TYR:CE1	2.85	0.59
2:cF:197:LYS:NZ	2:nR:62:GLN:HE21	1.99	0.59
1:cW:99:LEU:HD21	1:fi:102:GLU:CD	2.27	0.59
2:dr:134:GLN:OE1	2:dr:134:GLN:N	2.30	0.59
2:dr:244:ASP:OD1	2:dr:245:ALA:N	2.35	0.59
1:dM:102:GLU:OE1	2:dU:197:LYS:NZ	2.30	0.59
2:dU:90:ASP:O	2:dU:94:ASP:N	2.35	0.59
2:dW:294:LEU:CD2	2:dW:295:VAL:HG23	2.32	0.59
2:eh:205:MET:CE	2:ev:63:ARG:HE	2.15	0.59
2:ei:224:TRP:CZ2	2:ei:242:VAL:HG11	2.37	0.59
2:ew:90:ASP:O	2:ew:94:ASP:N	2.34	0.59
2:eK:224:TRP:CZ2	2:eK:242:VAL:HG11	2.37	0.59
2:fb:233:GLU:O	2:fb:237:VAL:HG22	2.02	0.59
2:fl:205:MET:HE2	2:nA:63:ARG:HD2	1.85	0.59
2:fz:205:MET:HE2	2:mi:63:ARG:HD2	1.85	0.59
2:fE:239:PHE:O	2:fE:242:VAL:HG22	2.02	0.59
2:fN:61:GLY:HA2	1:ma:103:ARG:HG2	1.84	0.59
2:fR:233:GLU:O	2:fR:237:VAL:HG22	2.02	0.59
2:gb:193:THR:CG2	2:ig:193:THR:HG22	2.31	0.59
2:gp:63:ARG:HE	2:hT:205:MET:CE	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gI:294:LEU:CD2	2:gI:295:VAL:HG23	2.26	0.59
2:gS:224:TRP:CZ2	2:gS:242:VAL:HG11	2.37	0.59
2:gT:85:GLY:O	2:IT:2:ALA:N	2.35	0.59
1:ha:91:GLU:HA	2:kB:4:ILE:HD11	1.83	0.59
2:he:2:ALA:N	2:II:85:GLY:O	2.35	0.59
2:hh:62:GLN:HG3	1:mq:102:GLU:HB3	1.85	0.59
2:hi:294:LEU:CD2	2:hi:295:VAL:HG23	2.32	0.59
1:hn:102:GLU:HB3	2:kS:62:GLN:HG3	1.84	0.59
2:hv:294:LEU:CD2	2:hv:295:VAL:HG23	2.32	0.59
2:hx:95:ASN:N	5:qz:47:ARG:HH21	2.00	0.59
2:hF:32:LEU:CA	5:qv:178:PRO:HD2	2.32	0.59
2:hG:224:TRP:CZ2	2:hG:242:VAL:HG11	2.37	0.59
2:hJ:197:LYS:NZ	2:kT:62:GLN:HE21	1.99	0.59
1:ia:98:LEU:HD12	2:ik:63:ARG:O	2.01	0.59
1:id:62:THR:HG21	1:id:101:VAL:HG23	1.84	0.59
2:il:233:GLU:O	2:il:237:VAL:HG22	2.02	0.59
1:io:102:GLU:OE1	2:iw:197:LYS:NZ	2.30	0.59
1:ir:58:PHE:CD1	1:ir:101:VAL:HG21	2.37	0.59
2:iv:62:GLN:OE1	2:jS:197:LYS:CA	2.50	0.59
2:ix:62:GLN:HG3	1:pQ:102:GLU:HB3	1.85	0.59
2:iL:205:MET:SD	2:iO:63:ARG:NE	2.75	0.59
1:jh:58:PHE:CD1	1:jh:101:VAL:HG21	2.37	0.59
2:jz:61:GLY:HA2	1:lk:103:ARG:HG2	1.84	0.59
2:jB:85:GLY:O	2:pV:2:ALA:N	2.35	0.59
2:jC:294:LEU:CD2	2:jC:295:VAL:HG23	2.32	0.59
1:jJ:62:THR:HG21	1:jJ:101:VAL:HG23	1.84	0.59
2:jN:62:GLN:OE1	2:pN:197:LYS:CA	2.50	0.59
2:jP:62:GLN:HG3	1:oM:102:GLU:HB3	1.84	0.59
2:kc:224:TRP:CZ2	2:kc:242:VAL:HG11	2.37	0.59
2:kt:239:PHE:O	2:kt:242:VAL:HG22	2.02	0.59
2:kE:85:GLY:O	2:kP:2:ALA:N	2.35	0.59
2:kF:107:GLY:CA	2:kF:184:TYR:CE1	2.86	0.59
2:kH:141:HIS:N	2:kH:148:ASP:O	2.35	0.59
2:lf:197:LYS:HZ1	1:oz:99:LEU:CA	2.06	0.59
2:li:233:GLU:O	2:li:237:VAL:HG22	2.02	0.59
1:lC:58:PHE:CD1	1:lC:101:VAL:HG21	2.37	0.59
2:lG:61:GLY:HA2	1:ne:103:ARG:HG2	1.84	0.59
1:lQ:62:THR:HG21	1:lQ:101:VAL:HG23	1.84	0.59
1:me:58:PHE:CD1	1:me:101:VAL:HG21	2.37	0.59
2:mk:205:MET:SD	2:mn:63:ARG:NE	2.75	0.59
1:mr:91:GLU:HA	2:oD:4:ILE:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mx:224:TRP:CZ2	2:mx:242:VAL:HG11	2.37	0.59
2:my:205:MET:SD	2:mB:63:ARG:NE	2.75	0.59
2:mM:226:LEU:HD13	2:mM:270:LEU:HD13	1.83	0.59
2:mO:233:GLU:O	2:mO:237:VAL:HG22	2.02	0.59
2:mZ:90:ASP:O	2:mZ:94:ASP:N	2.34	0.59
2:np:107:GLY:CA	2:np:184:TYR:CE1	2.85	0.59
2:nE:233:GLU:O	2:nE:237:VAL:HG22	2.02	0.59
2:nF:141:HIS:N	2:nF:148:ASP:O	2.35	0.59
2:op:193:THR:HG22	2:pW:193:THR:CG2	2.31	0.59
2:oq:63:ARG:HD2	2:pW:205:MET:HE2	1.84	0.59
2:oq:106:MET:HG3	2:oq:184:TYR:CD1	2.36	0.59
2:or:224:TRP:CZ2	2:or:242:VAL:HG11	2.37	0.59
1:ox:66:ARG:NH1	1:ox:75:LYS:O	2.34	0.59
2:oU:205:MET:SD	2:oX:63:ARG:NE	2.75	0.59
1:pc:58:PHE:CD1	1:pc:101:VAL:HG21	2.37	0.59
2:pk:233:GLU:O	2:pk:237:VAL:HG22	2.02	0.59
1:pq:58:PHE:CD1	1:pq:101:VAL:HG21	2.37	0.59
1:pB:66:ARG:NH1	1:pB:75:LYS:O	2.34	0.59
2:pY:205:MET:SD	2:qb:63:ARG:NE	2.75	0.59
2:qb:239:PHE:O	2:qb:242:VAL:HG22	2.02	0.59
3:qd:19:ARG:NH1	3:qe:135:GLY:O	2.35	0.59
3:qe:64:GLY:O	4:ql:220:SER:N	2.35	0.59
3:qe:65:GLY:O	4:qm:8:TYR:CE2	2.55	0.59
6:qs:48:ILE:HG21	6:qs:67:LEU:CD1	2.32	0.59
5:qz:96:ARG:HD3	5:qB:114:LEU:CD2	2.27	0.59
5:qH:245:ASP:OD1	6:qK:121:VAL:CG2	2.50	0.59
6:qM:48:ILE:HG21	6:qM:67:LEU:CD1	2.32	0.59
1:ab:102:GLU:HB3	2:mM:62:GLN:HG3	1.84	0.59
2:ai:224:TRP:CZ2	2:ai:242:VAL:HG11	2.37	0.59
1:ao:99:LEU:HD21	1:gm:102:GLU:CD	2.27	0.59
2:ay:197:LYS:NZ	2:gs:62:GLN:HE21	1.99	0.59
2:aI:193:THR:CG2	2:iW:193:THR:HG22	2.31	0.59
2:aZ:107:GLY:HA2	2:aZ:184:TYR:HE1	1.66	0.59
1:bd:99:LEU:HD21	1:ji:102:GLU:CD	2.27	0.59
2:bk:193:THR:CG2	2:dq:193:THR:HG22	2.31	0.59
2:bn:294:LEU:CD2	2:bn:295:VAL:HG23	2.32	0.59
2:bp:53:PHE:O	2:bp:255:ARG:NH2	2.35	0.59
1:bJ:102:GLU:CD	1:lN:99:LEU:HD21	2.27	0.59
2:bO:107:GLY:CA	2:bO:184:TYR:CE1	2.85	0.59
2:bP:233:GLU:O	2:bP:237:VAL:HG22	2.02	0.59
2:bZ:2:ALA:HB2	1:iP:81:ALA:HA	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bZ:198:GLU:OE2	1:iH:101:VAL:CB	2.49	0.59
2:cn:63:ARG:HE	2:iv:205:MET:CE	2.15	0.59
2:co:90:ASP:O	2:co:94:ASP:N	2.34	0.59
2:cp:85:GLY:O	2:pt:2:ALA:N	2.35	0.59
2:cA:2:ALA:N	2:pi:85:GLY:O	2.35	0.59
2:cB:193:THR:CG2	2:cO:193:THR:HG22	2.31	0.59
2:cD:62:GLN:HG3	1:dN:102:GLU:HB3	1.84	0.59
2:cE:62:GLN:HE21	2:nS:197:LYS:NZ	1.99	0.59
2:dw:239:PHE:O	2:dw:242:VAL:HG22	2.02	0.59
2:dK:141:HIS:N	2:dK:148:ASP:O	2.35	0.59
2:dS:2:ALA:N	2:oU:85:GLY:O	2.35	0.59
2:dU:117:LEU:HD21	2:dU:211:TYR:HA	1.84	0.59
1:ee:102:GLU:CD	1:mb:99:LEU:HD21	2.27	0.59
1:es:102:GLU:CD	1:nV:99:LEU:HD21	2.27	0.59
2:ex:85:GLY:O	2:gC:2:ALA:N	2.35	0.59
2:eJ:134:GLN:OE1	2:eJ:134:GLN:N	2.30	0.59
2:eL:62:GLN:HG3	1:ib:102:GLU:HB3	1.84	0.59
1:eQ:66:ARG:NH1	1:eQ:75:LYS:O	2.34	0.59
1:eU:102:GLU:CD	1:iC:99:LEU:HD21	2.27	0.59
1:fe:66:ARG:NH1	1:fe:75:LYS:O	2.34	0.59
1:ff:102:GLU:HB3	2:ij:62:GLN:HG3	1.84	0.59
2:fl:193:THR:CG2	2:nz:193:THR:HG22	2.31	0.59
2:fn:205:MET:SD	2:fq:63:ARG:NE	2.75	0.59
2:fq:141:HIS:N	2:fq:148:ASP:O	2.35	0.59
2:fB:226:LEU:HD13	2:fB:270:LEU:HD13	1.83	0.59
1:fG:99:LEU:HD21	1:kz:102:GLU:CD	2.27	0.59
1:fJ:62:THR:HG21	1:fJ:101:VAL:HG23	1.84	0.59
1:fU:99:LEU:HD21	1:mt:102:GLU:CD	2.27	0.59
2:gp:61:GLY:HA2	1:hZ:103:ARG:HG2	1.85	0.59
2:gT:205:MET:SD	2:gW:63:ARG:NE	2.75	0.59
2:hF:63:ARG:HD2	2:IG:205:MET:HE2	1.85	0.59
2:hF:205:MET:HE2	2:kC:63:ARG:HD2	1.84	0.59
2:hK:197:LYS:CA	2:kC:62:GLN:OE1	2.50	0.59
2:hw:233:GLU:O	2:hw:237:VAL:HG22	2.02	0.59
1:hC:58:PHE:CD1	1:hC:101:VAL:HG21	2.37	0.59
2:hI:294:LEU:CD2	2:hI:295:VAL:HG23	2.32	0.59
2:hK:239:PHE:O	2:hK:242:VAL:HG22	2.02	0.59
1:hP:62:THR:HG21	1:hP:101:VAL:HG23	1.84	0.59
2:hU:117:LEU:HD21	2:hU:211:TYR:HA	1.84	0.59
2:ih:244:ASP:OD1	2:ih:245:ALA:N	2.35	0.59
1:io:99:LEU:HD21	1:on:102:GLU:CD	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iX:2:ALA:HB2	1:jr:81:ALA:HA	1.82	0.59
2:jA:90:ASP:O	2:jA:94:ASP:N	2.34	0.59
2:kb:106:MET:HG3	2:kb:184:TYR:CD1	2.36	0.59
2:kt:53:PHE:O	2:kt:255:ARG:NH2	2.35	0.59
2:kD:117:LEU:HD21	2:kD:211:TYR:HA	1.84	0.59
2:kQ:244:ASP:OD1	2:kQ:245:ALA:N	2.35	0.59
2:le:61:GLY:HA2	1:mQ:103:ARG:HG2	1.84	0.59
1:lm:102:GLU:HB3	2:pY:62:GLN:HG3	1.84	0.59
2:ls:134:GLN:OE1	2:ls:134:GLN:N	2.30	0.59
2:lt:117:LEU:HD21	2:lt:211:TYR:HA	1.84	0.59
2:lv:294:LEU:CD2	2:lv:295:VAL:HG23	2.32	0.59
1:lA:102:GLU:HB3	2:oG:62:GLN:HG3	1.84	0.59
2:lF:2:ALA:N	2:na:85:GLY:O	2.35	0.59
2:lK:233:GLU:O	2:lK:237:VAL:HG22	2.02	0.59
2:lX:107:GLY:CA	2:lX:184:TYR:CE1	2.86	0.59
1:mb:102:GLU:OE1	2:mj:197:LYS:NZ	2.30	0.59
1:mo:102:GLU:OE2	1:mu:99:LEU:HG	1.74	0.59
1:mo:103:ARG:HG2	2:mw:61:GLY:HA2	1.84	0.59
1:mH:102:GLU:CD	1:oL:99:LEU:HD21	2.27	0.59
2:mN:107:GLY:CA	2:mN:184:TYR:CE1	2.85	0.59
2:nn:224:TRP:CZ2	2:nn:242:VAL:HG11	2.37	0.59
2:nB:117:LEU:HD21	2:nB:211:TYR:HA	1.84	0.59
2:nO:205:MET:HE2	2:oc:63:ARG:HD2	1.84	0.59
2:nQ:205:MET:SD	2:nT:63:ARG:NE	2.75	0.59
2:nT:197:LYS:CA	2:oc:62:GLN:OE1	2.50	0.59
2:oV:107:GLY:CA	2:oV:184:TYR:CE1	2.85	0.59
2:oV:294:LEU:CD2	2:oV:295:VAL:HG23	2.32	0.59
1:pA:102:GLU:OE2	1:pG:99:LEU:HG	1.74	0.59
2:pK:205:MET:SD	2:pN:63:ARG:NE	2.75	0.59
2:pX:117:LEU:HD21	2:pX:211:TYR:HA	1.84	0.59
6:qG:48:ILE:HG21	6:qG:67:LEU:CD1	2.31	0.59
1:aa:99:LEU:HD21	1:fw:102:GLU:CD	2.27	0.59
1:ar:62:THR:HG21	1:ar:101:VAL:HG23	1.84	0.59
2:au:172:LEU:CD1	5:qJ:178:PRO:CG	2.68	0.59
1:aE:58:PHE:CD1	1:aE:101:VAL:HG21	2.37	0.59
2:aH:2:ALA:N	2:kd:85:GLY:O	2.35	0.59
1:bu:58:PHE:CD1	1:bu:101:VAL:HG21	2.37	0.59
2:bC:233:GLU:O	2:bC:237:VAL:HG22	2.02	0.59
2:bQ:95:ASN:HD21	5:qp:43:ALA:C	2.08	0.59
1:bS:66:ARG:NH1	1:bS:75:LYS:O	2.34	0.59
1:cg:99:LEU:HD21	1:lp:102:GLU:CD	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ck:102:GLU:CD	1:ll:99:LEU:HD21	2.27	0.59
2:cm:2:ALA:N	2:ix:85:GLY:O	2.35	0.59
2:cn:106:MET:HG3	2:cn:184:TYR:CD1	2.36	0.59
2:cD:186:GLU:O	2:pJ:191:SER:OG	2.08	0.59
1:da:102:GLU:CD	1:fe:99:LEU:HD21	2.27	0.59
2:dc:2:ALA:N	2:eL:85:GLY:O	2.35	0.59
2:dF:63:ARG:HD2	2:eX:205:MET:HE2	1.84	0.59
2:dG:224:TRP:CZ2	2:dG:242:VAL:HG11	2.37	0.59
2:dT:61:GLY:HA2	1:oY:103:ARG:HG2	1.84	0.59
2:dV:85:GLY:O	2:nN:2:ALA:N	2.35	0.59
1:ed:62:THR:HG21	1:ed:101:VAL:HG23	1.84	0.59
2:em:141:HIS:N	2:em:148:ASP:O	2.35	0.59
2:ex:5:THR:HG22	1:gz:87:ASP:CB	2.26	0.59
2:eJ:61:GLY:HA2	1:gv:103:ARG:HG2	1.84	0.59
2:eY:224:TRP:CZ2	2:eY:242:VAL:HG11	2.37	0.59
2:fy:179:LEU:HD22	2:fy:209:TYR:HD2	1.68	0.59
2:fz:193:THR:CG2	2:mh:193:THR:HG22	2.31	0.59
2:fz:244:ASP:OD1	2:fz:245:ALA:N	2.35	0.59
2:fB:5:THR:HG22	1:me:87:ASP:CB	2.26	0.59
2:fB:62:GLN:HG3	1:nW:102:GLU:HB3	1.84	0.59
1:fF:103:ARG:HG2	2:mi:61:GLY:HA2	1.84	0.59
2:fN:205:MET:CE	2:gb:63:ARG:HE	2.15	0.59
1:fV:102:GLU:HB3	2:nC:62:GLN:HG3	1.85	0.59
1:gw:66:ARG:NH1	1:gw:75:LYS:O	2.34	0.59
2:gQ:179:LEU:HD22	2:gQ:209:TYR:HD2	1.68	0.59
2:gR:63:ARG:HD2	2:ih:205:MET:HE2	1.84	0.59
2:hg:90:ASP:O	2:hg:94:ASP:N	2.34	0.59
2:hg:224:TRP:CZ2	2:hg:242:VAL:HG11	2.37	0.59
2:hk:141:HIS:N	2:hk:148:ASP:O	2.35	0.59
1:io:66:ARG:NH1	1:io:75:LYS:O	2.34	0.59
2:iM:107:GLY:CA	2:iM:184:TYR:CE1	2.85	0.59
2:iM:294:LEU:CD2	2:iM:295:VAL:HG23	2.32	0.59
2:iZ:62:GLN:HG3	1:kj:102:GLU:HB3	1.84	0.59
2:iZ:85:GLY:O	2:jk:2:ALA:N	2.35	0.59
2:jc:53:PHE:O	2:jc:255:ARG:NH2	2.35	0.59
1:jr:103:ARG:HG2	2:ls:61:GLY:HA2	1.84	0.59
2:jz:205:MET:CE	2:pW:63:ARG:HE	2.15	0.59
2:jC:62:GLN:HE21	2:IK:197:LYS:NZ	1.99	0.59
2:jE:53:PHE:O	2:jE:255:ARG:NH2	2.35	0.59
2:jN:63:ARG:HE	2:pI:205:MET:CE	2.15	0.59
1:kv:66:ARG:NH1	1:kv:75:LYS:O	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kE:86:VAL:HG11	2:kE:102:LEU:CD1	2.33	0.59
2:kS:226:LEU:HD13	2:kS:270:LEU:HD13	1.83	0.59
2:lv:107:GLY:CA	2:lv:184:TYR:CE1	2.85	0.59
1:lE:100:LYS:N	2:nd:197:LYS:CE	2.60	0.59
1:lM:81:ALA:HA	2:mY:2:ALA:HB2	1.82	0.59
2:mw:205:MET:HE2	2:oE:63:ARG:HD2	1.85	0.59
1:mD:98:LEU:HD12	2:mN:63:ARG:O	2.01	0.59
1:nw:62:THR:HG21	1:nw:101:VAL:HG23	1.84	0.59
2:nQ:226:LEU:HD13	2:nQ:270:LEU:HD13	1.83	0.59
1:nY:62:THR:HG21	1:nY:101:VAL:HG23	1.84	0.59
2:oe:86:VAL:HG11	2:oe:102:LEU:CD1	2.33	0.59
2:oq:62:GLN:OE1	2:qb:197:LYS:CA	2.50	0.59
1:oO:58:PHE:CD1	1:oO:101:VAL:HG21	2.37	0.59
2:pu:205:MET:HE2	2:pI:63:ARG:HD2	1.84	0.59
2:pu:244:ASP:OD1	2:pu:245:ALA:N	2.35	0.59
3:qf:63:GLN:O	4:ql:33:SER:O	2.20	0.59
3:qg:67:ARG:N	4:qk:194:LEU:HD11	2.08	0.59
3:qi:98:ALA:O	3:qi:102:LEU:N	2.27	0.59
2:ah:78:LYS:NZ	2:oS:58:GLU:OE1	2.27	0.59
2:aj:62:GLN:HG3	1:ng:102:GLU:HB3	1.85	0.59
2:aw:85:GLY:O	2:ko:2:ALA:N	2.35	0.59
2:az:239:PHE:O	2:az:242:VAL:HG22	2.02	0.59
1:aD:91:GLU:HA	2:iW:4:ILE:HD11	1.84	0.59
1:aE:62:THR:HG21	1:aE:101:VAL:HG23	1.84	0.59
2:aK:205:MET:SD	2:aN:63:ARG:NE	2.75	0.59
1:aS:58:PHE:CD1	1:aS:101:VAL:HG21	2.37	0.59
2:aY:85:GLY:O	2:bj:2:ALA:N	2.35	0.59
1:bs:102:GLU:HB3	2:cb:62:GLN:HG3	1.84	0.59
2:bz:117:LEU:HD21	2:bz:211:TYR:HA	1.84	0.59
1:bJ:99:LEU:HA	2:hH:197:LYS:CD	2.13	0.59
1:bK:100:LYS:N	2:hK:197:LYS:CE	2.60	0.59
2:bN:86:VAL:HG11	2:bN:102:LEU:CD1	2.33	0.59
1:bW:102:GLU:CD	1:hM:99:LEU:HD21	2.27	0.59
2:cb:205:MET:SD	2:ce:63:ARG:NE	2.75	0.59
2:cr:233:GLU:O	2:cr:237:VAL:HG22	2.02	0.59
2:cE:294:LEU:CD2	2:cE:295:VAL:HG23	2.32	0.59
2:cQ:224:TRP:CZ2	2:cQ:242:VAL:HG11	2.37	0.59
2:cU:197:LYS:CE	1:eV:100:LYS:N	2.60	0.59
2:cU:197:LYS:CA	2:eX:62:GLN:OE1	2.50	0.59
2:dg:294:LEU:CD2	2:dg:295:VAL:HG23	2.32	0.59
2:ds:224:TRP:CZ2	2:ds:242:VAL:HG11	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dK:197:LYS:CA	2:pg:62:GLN:OE1	2.50	0.59
1:dM:99:LEU:HD21	1:jK:102:GLU:CD	2.27	0.59
2:ev:205:MET:HE2	2:gD:63:ARG:HD2	1.84	0.59
2:eJ:62:GLN:OE1	2:gu:197:LYS:CA	2.50	0.59
2:fl:205:MET:CE	2:nA:63:ARG:HE	2.15	0.59
2:fy:2:ALA:N	2:no:85:GLY:O	2.35	0.59
2:fN:62:GLN:OE1	2:lZ:197:LYS:CA	2.50	0.59
2:fO:224:TRP:CZ2	2:fO:242:VAL:HG11	2.37	0.59
2:gb:205:MET:CE	2:ih:63:ARG:HE	2.15	0.59
2:gg:141:HIS:N	2:gg:148:ASP:O	2.35	0.59
1:gh:103:ARG:HG2	2:ih:61:GLY:HA2	1.84	0.59
1:gn:100:LYS:N	2:hY:197:LYS:CE	2.60	0.59
2:gs:107:GLY:CA	2:gs:184:TYR:CE1	2.85	0.59
2:gC:179:LEU:HD22	2:gC:209:TYR:HD2	1.68	0.59
2:gE:224:TRP:CZ2	2:gE:242:VAL:HG11	2.37	0.59
2:gQ:2:ALA:N	2:ij:85:GLY:O	2.35	0.59
2:gS:117:LEU:HD21	2:gS:211:TYR:HA	1.84	0.59
2:hu:85:GLY:O	2:hF:2:ALA:N	2.35	0.59
2:hJ:233:GLU:O	2:hJ:237:VAL:HG22	2.02	0.59
2:hT:244:ASP:OD1	2:hT:245:ALA:N	2.35	0.59
2:hV:205:MET:SD	2:hY:63:ARG:NE	2.75	0.59
1:id:58:PHE:CD1	1:id:101:VAL:HG21	2.37	0.59
2:ii:224:TRP:CZ2	2:ii:242:VAL:HG11	2.37	0.59
2:im:141:HIS:N	2:im:148:ASP:O	2.35	0.59
2:iJ:106:MET:HG3	2:iJ:184:TYR:CD1	2.36	0.59
2:iN:233:GLU:O	2:iN:237:VAL:HG22	2.02	0.59
2:iO:141:HIS:N	2:iO:148:ASP:O	2.35	0.59
1:iT:62:THR:HG21	1:iT:101:VAL:HG23	1.84	0.59
2:iY:224:TRP:CZ2	2:iY:242:VAL:HG11	2.37	0.59
2:iZ:226:LEU:HD13	2:iZ:270:LEU:HD13	1.83	0.59
2:ja:107:GLY:HA2	2:ja:184:TYR:HE1	1.66	0.59
1:js:99:LEU:HD21	1:lD:102:GLU:CD	2.27	0.59
2:jB:62:GLN:HG3	1:mS:102:GLU:HB3	1.85	0.59
2:jE:197:LYS:CA	2:pW:62:GLN:OE1	2.50	0.59
1:jX:62:THR:HG21	1:jX:101:VAL:HG23	1.84	0.59
1:kl:58:PHE:CD1	1:kl:101:VAL:HG21	2.37	0.59
2:kp:224:TRP:CZ2	2:kp:242:VAL:HG11	2.37	0.59
1:ky:62:THR:HG21	1:ky:101:VAL:HG23	1.84	0.59
2:kS:85:GLY:O	2:mX:2:ALA:N	2.35	0.59
2:lg:62:GLN:HG3	1:oy:102:GLU:HB3	1.84	0.59
1:lo:58:PHE:CD1	1:lo:101:VAL:HG21	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lu:205:MET:SD	2:lx:63:ARG:NE	2.75	0.59
2:ll:86:VAL:HG11	2:ll:102:LEU:CD1	2.33	0.59
1:lQ:58:PHE:CD1	1:lQ:101:VAL:HG21	2.37	0.59
2:lU:244:ASP:OD1	2:lU:245:ALA:N	2.34	0.59
2:lX:107:GLY:HA2	2:lX:184:TYR:HE1	1.66	0.59
2:mw:106:MET:HG3	2:mw:184:TYR:CD1	2.36	0.59
1:mD:99:LEU:HD21	1:oP:102:GLU:CD	2.27	0.59
1:ni:58:PHE:CD1	1:ni:101:VAL:HG21	2.37	0.59
2:nm:61:GLY:HA2	1:oK:103:ARG:HG2	1.84	0.59
2:nm:63:ARG:HE	2:oE:205:MET:CE	2.15	0.59
2:nm:134:GLN:OE1	2:nm:134:GLN:N	2.30	0.59
2:no:86:VAL:HG11	2:no:102:LEU:CD1	2.33	0.59
2:nO:244:ASP:OD1	2:nO:245:ALA:N	2.34	0.59
2:nP:191:SER:OG	2:pi:186:GLU:O	2.08	0.59
2:of:107:GLY:HA2	2:of:184:TYR:HE1	1.66	0.59
2:og:233:GLU:O	2:og:237:VAL:HG22	2.02	0.59
1:ok:102:GLU:HB3	2:oU:62:GLN:HG3	1.85	0.59
1:om:62:THR:HG21	1:om:101:VAL:HG23	1.84	0.59
2:ov:239:PHE:O	2:ov:242:VAL:HG22	2.02	0.59
2:oX:141:HIS:N	2:oX:148:ASP:O	2.35	0.59
2:pN:53:PHE:O	2:pN:255:ARG:NH2	2.36	0.59
1:pS:58:PHE:CD1	1:pS:101:VAL:HG21	2.37	0.59
3:qe:66:GLN:HA	4:qm:8:TYR:C	2.28	0.59
3:qg:66:GLN:HA	4:qk:8:TYR:CD2	2.37	0.59
4:qn:63:GLY:HA2	4:qo:54:LYS:HG3	1.84	0.59
5:qp:245:ASP:OD1	6:qs:121:VAL:CG2	2.50	0.59
6:qs:65:THR:CB	6:qu:46:SER:OG	2.51	0.59
6:qw:109:SER:HB3	6:qy:53:HIS:HB3	1.84	0.59
6:qy:48:ILE:HG21	6:qy:67:LEU:CD1	2.32	0.59
5:qB:245:ASP:OD1	6:qE:121:VAL:CG2	2.50	0.59
2:ag:2:ALA:N	2:oe:85:GLY:O	2.35	0.59
2:av:117:LEU:HD21	2:av:211:TYR:HA	1.84	0.59
2:aK:86:VAL:HG11	2:aK:102:LEU:CD1	2.33	0.59
2:aN:141:HIS:N	2:aN:148:ASP:O	2.35	0.59
1:aQ:102:GLU:HB3	2:jn:62:GLN:HG3	1.84	0.59
2:aW:205:MET:CE	2:bk:63:ARG:HE	2.15	0.59
2:aX:224:TRP:CZ2	2:aX:242:VAL:HG11	2.37	0.59
2:aY:205:MET:SD	2:bb:63:ARG:NE	2.75	0.59
1:bf:91:GLU:HA	2:dq:4:ILE:HD11	1.84	0.59
2:bk:205:MET:HE2	2:dr:63:ARG:HD2	1.85	0.59
2:bk:205:MET:CE	2:dr:63:ARG:HE	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bp:239:PHE:O	2:bp:242:VAL:HG22	2.02	0.59
1:bq:103:ARG:HG2	2:dr:61:GLY:HA2	1.85	0.59
2:bx:2:ALA:N	2:df:85:GLY:O	2.35	0.59
2:bB:107:GLY:CA	2:bB:184:TYR:CE1	2.85	0.59
2:bD:141:HIS:N	2:bD:148:ASP:O	2.35	0.59
1:bU:105:THR:CG2	2:iK:60:ILE:CG2	2.62	0.59
2:bY:197:LYS:HZ2	1:dx:100:LYS:HD2	1.68	0.59
2:ce:239:PHE:O	2:ce:242:VAL:HG22	2.02	0.59
1:cf:100:LYS:HD2	2:il:197:LYS:HZ2	1.66	0.59
2:co:224:TRP:CZ2	2:co:242:VAL:HG11	2.37	0.59
2:cp:62:GLN:HG3	1:jf:102:GLU:HB3	1.84	0.59
2:cq:294:LEU:CD2	2:cq:295:VAL:HG23	2.32	0.59
2:cA:4:ILE:HD11	1:pb:91:GLU:HA	1.84	0.59
2:de:224:TRP:CZ2	2:de:242:VAL:HG11	2.37	0.59
1:dB:58:PHE:CD1	1:dB:101:VAL:HG21	2.37	0.59
2:dF:106:MET:HG3	2:dF:184:TYR:CD1	2.36	0.59
2:dF:134:GLN:OE1	2:dF:134:GLN:N	2.30	0.59
2:dY:141:HIS:N	2:dY:148:ASP:O	2.35	0.59
2:eg:2:ALA:N	2:nC:85:GLY:O	2.35	0.59
2:eh:63:ARG:HE	2:nA:205:MET:CE	2.15	0.59
2:eh:134:GLN:OE1	2:eh:134:GLN:N	2.30	0.59
2:em:53:PHE:O	2:em:255:ARG:NH2	2.35	0.59
2:eZ:86:VAL:HG11	2:eZ:102:LEU:CD1	2.33	0.59
2:fl:61:GLY:HA2	1:gJ:103:ARG:HG2	1.85	0.59
2:fl:63:ARG:HD2	2:gD:205:MET:HE2	1.84	0.59
1:fT:103:ARG:HG2	2:gb:61:GLY:HA2	1.84	0.59
1:fY:102:GLU:CD	1:mp:99:LEU:HD21	2.27	0.59
2:gb:205:MET:HE2	2:ih:63:ARG:HD2	1.84	0.59
2:gr:86:VAL:HG11	2:gr:102:LEU:CD1	2.33	0.59
2:gU:107:GLY:CA	2:gU:184:TYR:CE1	2.85	0.59
2:hh:205:MET:SD	2:hk:63:ARG:NE	2.75	0.59
2:hk:36:THR:O	2:hk:175:THR:OG1	2.18	0.59
1:hC:62:THR:HG21	1:hC:101:VAL:HG23	1.84	0.59
1:it:100:LYS:N	2:jS:197:LYS:CE	2.60	0.59
2:iK:224:TRP:CZ2	2:iK:242:VAL:HG11	2.37	0.59
2:ja:107:GLY:CA	2:ja:184:TYR:CE1	2.85	0.59
1:js:66:ARG:NH1	1:js:75:LYS:O	2.34	0.59
2:jA:117:LEU:HD21	2:jA:211:TYR:HA	1.84	0.59
1:jJ:58:PHE:CD1	1:jJ:101:VAL:HG21	2.37	0.59
2:kb:63:ARG:HD2	2:ls:205:MET:HE2	1.84	0.59
2:kb:63:ARG:HE	2:ls:205:MET:CE	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ko:31:TYR:CE2	5:qF:178:PRO:HD2	2.29	0.59
2:kq:226:LEU:HD13	2:kq:270:LEU:HD13	1.83	0.59
2:kr:294:LEU:CD2	2:kr:295:VAL:HG23	2.32	0.59
2:kG:233:GLU:O	2:kG:237:VAL:HG22	2.02	0.59
2:kH:197:LYS:CA	2:kQ:62:GLN:OE1	2.50	0.59
1:kY:102:GLU:HB3	2:II:62:GLN:HG3	1.84	0.59
2:lj:141:HIS:N	2:lj:148:ASP:O	2.35	0.59
1:lA:103:ARG:O	2:oG:62:GLN:HB2	2.03	0.59
2:lG:62:GLN:OE1	2:nd:197:LYS:CA	2.50	0.59
2:lG:63:ARG:HD2	2:mY:205:MET:HE2	1.85	0.59
2:II:205:MET:SD	2:IL:63:ARG:NE	2.75	0.59
2:IW:226:LEU:HD13	2:IW:270:LEU:HD13	1.83	0.59
2:mw:78:LYS:NZ	2:oE:58:GLU:OE1	2.27	0.59
2:mx:90:ASP:O	2:mx:94:ASP:N	2.34	0.59
2:my:85:GLY:O	2:oD:2:ALA:N	2.35	0.59
2:nl:179:LEU:HD22	2:nl:209:TYR:HD2	1.68	0.59
2:nT:239:PHE:O	2:nT:242:VAL:HG22	2.02	0.59
1:nY:58:PHE:CD1	1:nY:101:VAL:HG21	2.37	0.59
2:or:60:ILE:CG2	1:pR:105:THR:CG2	2.62	0.59
2:os:205:MET:SD	2:ov:63:ARG:NE	2.75	0.59
2:oG:205:MET:SD	2:oJ:63:ARG:NE	2.75	0.59
2:oJ:239:PHE:O	2:oJ:242:VAL:HG22	2.02	0.59
1:oL:66:ARG:NH1	1:oL:75:LYS:O	2.34	0.59
1:oO:62:THR:HG21	1:oO:101:VAL:HG23	1.84	0.59
2:oU:86:VAL:HG11	2:oU:102:LEU:CD1	2.33	0.59
2:pv:224:TRP:CZ2	2:pv:242:VAL:HG11	2.37	0.59
2:pI:106:MET:HG3	2:pI:184:TYR:CD1	2.36	0.59
2:pJ:224:TRP:CZ2	2:pJ:242:VAL:HG11	2.37	0.59
2:pZ:107:GLY:CA	2:pZ:184:TYR:CE1	2.85	0.59
4:qk:116:PHE:CZ	4:ql:202:ILE:HD13	2.36	0.59
6:qq:65:THR:CB	6:qs:46:SER:OG	2.51	0.59
5:qB:255:VAL:CG1	5:qD:263:ALA:HB1	2.31	0.59
5:qD:255:VAL:CG1	5:qF:263:ALA:HB1	2.31	0.59
6:qE:109:SER:HB3	6:qG:53:HIS:HB3	1.84	0.59
2:ah:63:ARG:HD2	2:oc:205:MET:HE2	1.84	0.59
2:ah:63:ARG:HE	2:oc:205:MET:CE	2.15	0.59
2:ah:205:MET:CE	2:oS:63:ARG:HE	2.15	0.59
1:ap:102:GLU:HB3	2:dt:62:GLN:HG3	1.84	0.59
2:ay:233:GLU:O	2:ay:237:VAL:HG22	2.02	0.59
2:aI:205:MET:CE	2:iX:63:ARG:HE	2.15	0.59
2:aZ:294:LEU:CD2	2:aZ:295:VAL:HG23	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bc:103:ARG:HG2	2:bk:61:GLY:HA2	1.84	0.59
2:bo:233:GLU:O	2:bo:237:VAL:HG22	2.02	0.59
1:br:103:ARG:HD2	2:fc:61:GLY:HA3	1.85	0.59
1:bG:102:GLU:HB3	2:gr:62:GLN:HG3	1.85	0.59
2:bL:179:LEU:HD22	2:bL:209:TYR:HD2	1.68	0.59
2:cm:179:LEU:HD22	2:cm:209:TYR:HD2	1.68	0.59
1:cv:102:GLU:HB3	2:pK:62:GLN:HG3	1.85	0.59
1:cw:99:LEU:CA	2:pJ:197:LYS:HZ1	2.08	0.59
2:cB:61:GLY:HA2	1:pm:103:ARG:HG2	1.84	0.59
1:cM:102:GLU:CD	1:pB:99:LEU:HD21	2.27	0.59
2:cP:106:MET:HG3	2:cP:184:TYR:CD1	2.36	0.59
2:cQ:90:ASP:O	2:cQ:94:ASP:N	2.34	0.59
2:cS:294:LEU:CD2	2:cS:295:VAL:HG23	2.32	0.59
1:cV:100:LYS:HD2	2:eW:197:LYS:HZ2	1.67	0.59
2:dd:61:GLY:HA2	1:eP:103:ARG:HG2	1.84	0.59
2:dw:53:PHE:O	2:dw:255:ARG:NH2	2.36	0.59
1:dB:62:THR:HG21	1:dB:101:VAL:HG23	1.84	0.59
2:dE:2:ALA:N	2:eZ:85:GLY:O	2.35	0.59
2:dE:4:ILE:HD11	1:eS:91:GLU:HA	1.84	0.59
2:dF:20:PHE:N	2:pg:171:TYR:OH	2.36	0.59
2:dI:294:LEU:CD2	2:dI:295:VAL:HG23	2.32	0.59
2:dS:179:LEU:HD22	2:dS:209:TYR:HD2	1.68	0.59
2:dT:63:ARG:HE	2:oS:205:MET:CE	2.15	0.59
2:dV:226:LEU:HD13	2:dV:270:LEU:HD13	1.83	0.59
2:dY:197:LYS:CA	2:nO:62:GLN:OE1	2.50	0.59
2:ei:117:LEU:HD21	2:ei:211:TYR:HA	1.84	0.59
2:ej:86:VAL:HG11	2:ej:102:LEU:CD1	2.33	0.59
1:er:62:THR:HG21	1:er:101:VAL:HG23	1.84	0.59
2:ey:62:GLN:HE21	2:og:197:LYS:NZ	1.99	0.59
1:eQ:102:GLU:OE1	2:eY:197:LYS:NZ	2.30	0.59
2:fk:4:ILE:HD11	1:gy:91:GLU:HA	1.84	0.59
2:fn:86:VAL:HG11	2:fn:102:LEU:CD1	2.33	0.59
2:fq:53:PHE:O	2:fq:255:ARG:NH2	2.35	0.59
2:fq:239:PHE:O	2:fq:242:VAL:HG22	2.02	0.59
1:fs:66:ARG:NH1	1:fs:75:LYS:O	2.34	0.59
2:fz:62:GLN:OE1	2:nr:197:LYS:CA	2.50	0.59
2:fz:63:ARG:HE	2:nm:205:MET:CE	2.15	0.59
2:fB:85:GLY:O	2:mh:2:ALA:N	2.35	0.59
1:fK:102:GLU:CD	1:kv:99:LEU:HD21	2.27	0.59
2:fN:63:ARG:HD2	2:IU:205:MET:HE2	1.84	0.59
2:ge:294:LEU:CD2	2:ge:295:VAL:HG23	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gP:100:LYS:N	2:im:197:LYS:CE	2.60	0.59
2:hh:85:GLY:O	2:kB:2:ALA:N	2.35	0.59
2:hi:107:GLY:HA2	2:hi:184:TYR:HE1	1.66	0.59
2:hs:2:ALA:N	2:kq:85:GLY:O	2.35	0.59
2:hs:179:LEU:HD22	2:hs:209:TYR:HD2	1.68	0.59
2:ht:224:TRP:CZ2	2:ht:242:VAL:HG11	2.37	0.59
1:hA:102:GLU:HB3	2:lW:62:GLN:HG3	1.84	0.59
2:hU:224:TRP:CZ2	2:hU:242:VAL:HG11	2.37	0.59
2:hW:107:GLY:HA2	2:hW:184:TYR:HE1	1.66	0.59
2:ij:205:MET:SD	2:im:63:ARG:NE	2.75	0.59
2:ix:226:LEU:HD13	2:ix:270:LEU:HD13	1.83	0.59
2:iz:233:GLU:O	2:iz:237:VAL:HG22	2.02	0.59
1:iF:62:THR:HG21	1:iF:101:VAL:HG23	1.84	0.59
2:iX:20:PHE:N	2:jl:171:TYR:OH	2.36	0.59
2:jQ:141:HIS:N	2:jQ:148:ASP:O	2.35	0.59
2:jz:106:MET:HG3	2:jz:184:TYR:CD1	2.36	0.59
2:jB:205:MET:SD	2:jE:63:ARG:NE	2.75	0.59
2:jN:244:ASP:OD1	2:jN:245:ALA:N	2.35	0.59
1:jU:99:LEU:HD21	1:pT:102:GLU:CD	2.27	0.59
2:kg:141:HIS:N	2:kg:148:ASP:O	2.35	0.59
1:kv:98:LEU:HD12	2:kF:63:ARG:O	2.01	0.59
2:kF:294:LEU:CD2	2:kF:295:VAL:HG23	2.32	0.59
1:kW:103:ARG:HG2	2:mY:61:GLY:HA2	1.84	0.59
1:kX:103:ARG:HD2	2:oJ:61:GLY:HA3	1.85	0.59
1:ll:66:ARG:NH1	1:ll:75:LYS:O	2.34	0.59
2:lt:224:TRP:CZ2	2:lt:242:VAL:HG11	2.37	0.59
2:lu:86:VAL:HG11	2:lu:102:LEU:CD1	2.33	0.59
1:md:91:GLU:HA	2:mv:4:ILE:HD11	1.84	0.59
2:mh:179:LEU:HD22	2:mh:209:TYR:HD2	1.68	0.59
2:mj:224:TRP:CZ2	2:mj:242:VAL:HG11	2.37	0.59
2:mM:86:VAL:HG11	2:mM:102:LEU:CD1	2.33	0.59
2:nC:205:MET:SD	2:nF:63:ARG:NE	2.75	0.59
2:ob:179:LEU:HD22	2:ob:209:TYR:HD2	1.68	0.59
1:pc:62:THR:HG21	1:pc:101:VAL:HG23	1.84	0.59
2:pu:20:PHE:N	2:pI:171:TYR:OH	2.36	0.59
2:pM:233:GLU:O	2:pM:237:VAL:HG22	2.02	0.59
2:pY:86:VAL:HG11	2:pY:102:LEU:CD1	2.33	0.59
4:qm:63:GLY:HA2	4:qn:54:LYS:HG3	1.84	0.59
6:qE:48:ILE:HG21	6:qE:67:LEU:CD1	2.32	0.59
5:qH:96:ARG:HD3	5:qJ:114:LEU:CD2	2.27	0.59
2:ak:62:GLN:HE21	2:fD:197:LYS:NZ	1.99	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:al:197:LYS:NZ	2:fc:62:GLN:HE21	1.99	0.59
2:au:2:ALA:N	2:bn:85:GLY:O	2.35	0.59
1:aF:102:GLU:CD	1:mR:99:LEU:HD21	2.27	0.59
2:aI:171:TYR:OH	2:kb:20:PHE:N	2.36	0.59
2:aI:205:MET:HE2	2:iX:63:ARG:HD2	1.85	0.59
2:aN:61:GLY:HA3	1:hm:103:ARG:HD2	1.85	0.59
2:bk:20:PHE:N	2:dr:171:TYR:OH	2.36	0.59
2:bx:4:ILE:HD11	1:cY:91:GLU:HA	1.84	0.59
2:bA:62:GLN:HG3	1:eR:102:GLU:HB3	1.85	0.59
2:bD:239:PHE:O	2:bD:242:VAL:HG22	2.02	0.59
2:bQ:141:HIS:N	2:bQ:148:ASP:O	2.35	0.59
2:bY:2:ALA:N	2:dt:85:GLY:O	2.35	0.59
2:cE:107:GLY:HA2	2:cE:184:TYR:HE1	1.66	0.59
2:cE:107:GLY:CA	2:cE:184:TYR:CE1	2.85	0.59
1:cX:103:ARG:O	2:dH:62:GLN:HB2	2.03	0.59
2:dc:179:LEU:HD22	2:dc:209:TYR:HD2	1.68	0.59
2:dh:233:GLU:O	2:dh:237:VAL:HG22	2.02	0.59
2:dv:233:GLU:O	2:dv:237:VAL:HG22	2.02	0.59
2:dF:171:TYR:OH	2:eX:20:PHE:N	2.36	0.59
2:dU:224:TRP:CZ2	2:dU:242:VAL:HG11	2.37	0.59
1:eb:103:ARG:O	2:oe:62:GLN:HB2	2.03	0.59
2:eg:4:ILE:HD11	1:nv:91:GLU:HA	1.84	0.59
2:ex:226:LEU:HD13	2:ex:270:LEU:HD13	1.83	0.59
1:eC:66:ARG:NH1	1:eC:75:LYS:O	2.34	0.59
2:eL:205:MET:SD	2:eO:63:ARG:NE	2.75	0.59
2:fB:197:LYS:CD	1:mf:99:LEU:CA	2.69	0.59
1:fG:103:ARG:HD2	2:hk:61:GLY:HA3	1.85	0.59
2:fP:85:GLY:O	2:ga:2:ALA:N	2.35	0.59
2:fQ:294:LEU:CD2	2:fQ:295:VAL:HG23	2.32	0.59
1:gj:103:ARG:O	2:gT:62:GLN:HB2	2.03	0.59
2:gp:62:GLN:OE1	2:hY:197:LYS:CA	2.50	0.59
2:gI:239:PHE:O	2:gI:242:VAL:HG22	2.02	0.59
1:gN:58:PHE:CD1	1:gN:101:VAL:HG21	2.37	0.59
2:hu:86:VAL:HG11	2:hu:102:LEU:CD1	2.33	0.59
1:io:103:ARG:HD2	2:qb:61:GLY:HA3	1.85	0.59
2:iw:197:LYS:NZ	1:pR:99:LEU:C	2.58	0.59
2:iI:219:VAL:HG23	2:iI:259:ILE:HD12	1.85	0.59
2:iX:106:MET:HG3	2:iX:184:TYR:CD1	2.36	0.59
2:jk:179:LEU:HD22	2:jk:209:TYR:HD2	1.68	0.59
1:jt:103:ARG:O	2:kd:62:GLN:HB2	2.03	0.59
2:jM:4:ILE:HD11	1:pD:91:GLU:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jQ:107:GLY:HA2	2:jQ:184:TYR:HE1	1.66	0.59
2:jR:233:GLU:O	2:jR:237:VAL:HG22	2.02	0.59
2:ka:2:ALA:N	2:lu:85:GLY:O	2.35	0.59
2:kp:117:LEU:HD21	2:kp:211:TYR:HA	1.84	0.59
1:kX:66:ARG:NH1	1:kX:75:LYS:O	2.34	0.59
2:lx:53:PHE:O	2:lx:255:ARG:NH2	2.36	0.59
2:lx:239:PHE:O	2:lx:242:VAL:HG22	2.02	0.59
2:IL:141:HIS:N	2:IL:148:ASP:O	2.35	0.59
2:IV:224:TRP:CZ2	2:IV:242:VAL:HG11	2.37	0.59
2:mB:197:LYS:CE	1:oC:100:LYS:N	2.60	0.59
1:mE:103:ARG:O	2:no:62:GLN:HB2	2.03	0.59
2:mK:171:TYR:OH	2:oq:20:PHE:N	2.36	0.59
2:mY:106:MET:HG3	2:mY:184:TYR:CD1	2.36	0.59
2:nP:224:TRP:CZ2	2:nP:242:VAL:HG11	2.37	0.59
2:oc:244:ASP:OD1	2:oc:245:ALA:N	2.34	0.59
2:or:90:ASP:O	2:or:94:ASP:N	2.34	0.59
2:oR:179:LEU:HD22	2:oR:209:TYR:HD2	1.68	0.59
2:px:294:LEU:CD2	2:px:295:VAL:HG23	2.32	0.59
2:pL:107:GLY:HA2	2:pL:184:TYR:HE1	1.66	0.59
2:pN:239:PHE:O	2:pN:242:VAL:HG22	2.02	0.59
3:qh:66:GLN:CA	4:qj:8:TYR:HD2	2.16	0.59
4:ql:63:GLY:HA2	4:qm:54:LYS:HG3	1.84	0.59
6:qu:65:THR:CB	6:qw:46:SER:OG	2.51	0.59
6:qy:112:LEU:CG	6:qA:58:LEU:HD12	2.09	0.59
6:qC:65:THR:CB	6:qE:46:SER:OG	2.51	0.59
5:qF:245:ASP:OD1	6:qI:121:VAL:CG2	2.50	0.59
5:qF:255:VAL:CG1	5:qH:263:ALA:HB1	2.31	0.59
2:ai:278:VAL:HG11	2:ai:295:VAL:O	2.03	0.59
2:aw:62:GLN:HG3	1:hN:102:GLU:HB3	1.84	0.59
2:ax:294:LEU:CD2	2:ax:295:VAL:HG23	2.32	0.59
2:aH:4:ILE:HD11	1:jW:91:GLU:HA	1.84	0.59
2:aH:219:VAL:HG23	2:aH:259:ILE:HD12	1.85	0.59
1:aP:66:ARG:NH1	1:aP:75:LYS:O	2.34	0.59
1:aS:62:THR:HG21	1:aS:101:VAL:HG23	1.84	0.59
2:aW:63:ARG:HD2	2:iJ:205:MET:HE2	1.84	0.59
2:bm:85:GLY:O	2:dq:2:ALA:N	2.35	0.59
2:bn:62:GLN:HE21	2:jp:197:LYS:NZ	1.99	0.59
1:bq:102:GLU:OE2	1:dp:99:LEU:CD2	2.43	0.59
2:by:61:GLY:HA2	1:dj:103:ARG:HG2	1.84	0.59
2:by:134:GLN:OE1	2:by:134:GLN:N	2.30	0.59
2:bC:197:LYS:NZ	2:dI:62:GLN:HE21	1.99	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bF:99:LEU:HD21	1:lR:102:GLU:CD	2.27	0.59
1:bV:58:PHE:CD1	1:bV:101:VAL:HG21	2.37	0.59
1:cj:58:PHE:CD1	1:cj:101:VAL:HG21	2.37	0.59
2:cn:20:PHE:N	2:pu:171:TYR:OH	2.36	0.59
2:co:278:VAL:HG11	2:co:295:VAL:O	2.03	0.59
2:cp:86:VAL:HG11	2:cp:102:LEU:CD1	2.33	0.59
2:cq:5:THR:HG23	2:cq:5:THR:O	2.03	0.59
2:cD:62:GLN:HB2	1:dN:103:ARG:O	2.03	0.59
2:cD:85:GLY:O	2:cO:2:ALA:N	2.35	0.59
2:cG:239:PHE:O	2:cG:242:VAL:HG22	2.02	0.59
2:de:117:LEU:HD21	2:de:211:TYR:HA	1.84	0.59
1:dn:58:PHE:CD1	1:dn:101:VAL:HG21	2.37	0.59
1:do:102:GLU:CD	1:ki:99:LEU:HD21	2.27	0.59
1:dz:103:ARG:O	2:gF:62:GLN:HB2	2.03	0.59
2:dI:107:GLY:CA	2:dI:184:TYR:CE1	2.85	0.59
1:dQ:102:GLU:CD	1:jG:99:LEU:HD21	2.27	0.59
2:dY:53:PHE:O	2:dY:255:ARG:NH2	2.36	0.59
2:el:83:THR:OG1	2:el:203:VAL:O	2.21	0.59
2:el:233:GLU:O	2:el:237:VAL:HG22	2.02	0.59
2:ey:107:GLY:CA	2:ey:184:TYR:CE1	2.86	0.59
1:eB:103:ARG:HG2	2:gD:61:GLY:HA2	1.84	0.59
2:eY:90:ASP:O	2:eY:94:ASP:N	2.34	0.59
1:ff:103:ARG:O	2:ij:62:GLN:HB2	2.03	0.59
1:fH:103:ARG:O	2:my:62:GLN:HB2	2.03	0.59
2:fO:117:LEU:HD21	2:fO:211:TYR:HA	1.84	0.59
2:fP:62:GLN:HB2	1:gZ:103:ARG:O	2.03	0.59
2:gc:224:TRP:CZ2	2:gc:242:VAL:HG11	2.37	0.59
2:gf:233:GLU:O	2:gf:237:VAL:HG22	2.02	0.59
2:gg:197:LYS:CE	1:if:100:LYS:N	2.60	0.59
2:go:179:LEU:HD22	2:go:209:TYR:HD2	1.68	0.59
2:gp:106:MET:HG3	2:gp:184:TYR:CD1	2.36	0.59
1:gA:102:GLU:CD	1:oZ:99:LEU:HD21	2.27	0.59
2:gE:117:LEU:HD21	2:gE:211:TYR:HA	1.84	0.59
2:gI:141:HIS:N	2:gI:148:ASP:O	2.35	0.59
1:hl:103:ARG:HG2	2:kC:61:GLY:HA2	1.84	0.59
2:hx:190:PRO:HG2	5:qx:47:ARG:NH1	2.18	0.59
1:hD:102:GLU:CD	1:kJ:99:LEU:HD21	2.27	0.59
2:hF:179:LEU:HD22	2:hF:209:TYR:HD2	1.68	0.59
2:hK:95:ASN:HD22	5:qv:38:LYS:HB3	1.65	0.59
2:ij:86:VAL:HG11	2:ij:102:LEU:CD1	2.33	0.59
2:ix:86:VAL:HG11	2:ix:102:LEU:CD1	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iK:117:LEU:HD21	2:iK:211:TYR:HA	1.84	0.59
1:iR:99:LEU:CA	1:kj:102:GLU:OE1	2.28	0.59
2:jk:219:VAL:HG23	2:jk:259:ILE:HD12	1.85	0.59
2:jm:117:LEU:HD21	2:jm:211:TYR:HA	1.84	0.59
2:jo:107:GLY:CA	2:jo:184:TYR:CE1	2.85	0.59
1:jt:60:ARG:NH1	1:jV:99:LEU:CD1	2.26	0.59
2:jj:179:LEU:HD22	2:jj:209:TYR:HD2	1.68	0.59
2:jz:63:ARG:HE	2:le:205:MET:CE	2.15	0.59
2:jN:61:GLY:HA2	1:pO:103:ARG:HG2	1.84	0.59
2:kb:62:GLN:OE1	2:lx:197:LYS:CA	2.50	0.59
2:kf:233:GLU:O	2:kf:237:VAL:HG22	2.02	0.59
2:ko:179:LEU:HD22	2:ko:209:TYR:HD2	1.68	0.59
2:kE:62:GLN:HG3	1:lO:102:GLU:HB3	1.84	0.59
2:kH:53:PHE:O	2:kH:255:ARG:NH2	2.35	0.59
2:kQ:20:PHE:N	2:mY:171:TYR:OH	2.36	0.59
1:kY:103:ARG:O	2:lI:62:GLN:HB2	2.03	0.59
2:ld:2:ALA:N	2:mM:85:GLY:O	2.35	0.59
2:ls:106:MET:HG3	2:ls:184:TYR:CD1	2.36	0.59
2:mk:226:LEU:HD13	2:mk:270:LEU:HD13	1.83	0.59
2:mJ:2:ALA:N	2:os:85:GLY:O	2.35	0.59
2:mM:205:MET:SD	2:mP:63:ARG:NE	2.75	0.59
2:mZ:224:TRP:CZ2	2:mZ:242:VAL:HG11	2.37	0.59
2:nd:239:PHE:O	2:nd:242:VAL:HG22	2.02	0.59
2:nr:141:HIS:N	2:nr:148:ASP:O	2.35	0.59
2:nR:294:LEU:CD2	2:nR:295:VAL:HG23	2.32	0.59
2:oq:58:GLU:OE1	2:pW:78:LYS:NZ	2.27	0.59
2:ov:61:GLY:HA3	1:oL:103:ARG:HD2	1.85	0.59
2:oT:224:TRP:CZ2	2:oT:242:VAL:HG11	2.37	0.59
2:pi:205:MET:SD	2:pl:63:ARG:NE	2.75	0.59
2:pt:219:VAL:HG23	2:pt:259:ILE:HD12	1.85	0.59
2:py:233:GLU:O	2:py:237:VAL:HG22	2.02	0.59
1:pA:103:ARG:HG2	2:pI:61:GLY:HA2	1.85	0.59
2:pV:219:VAL:HG23	2:pV:259:ILE:HD12	1.85	0.59
3:qd:68:ALA:CB	4:qn:8:TYR:CZ	2.85	0.59
3:qf:66:GLN:CA	4:ql:10:GLN:CG	2.76	0.59
5:qt:53:GLU:CD	5:qv:35:HIS:CE1	2.80	0.59
6:qA:65:THR:CB	6:qC:46:SER:OG	2.51	0.59
5:qH:255:VAL:CG1	5:qJ:263:ALA:HB1	2.31	0.59
1:ae:102:GLU:CD	1:fs:99:LEU:HD21	2.27	0.59
2:al:83:THR:OG1	2:al:203:VAL:O	2.21	0.59
2:aI:20:PHE:N	2:iX:171:TYR:OH	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aM:86:VAL:HG11	2:aM:102:LEU:HD11	1.85	0.59
2:aN:239:PHE:O	2:aN:242:VAL:HG22	2.02	0.59
2:by:205:MET:CE	2:hT:63:ARG:HE	2.15	0.59
2:bz:278:VAL:HG11	2:bz:295:VAL:O	2.03	0.59
2:bA:62:GLN:HB2	1:eR:103:ARG:O	2.03	0.59
2:bD:61:GLY:HA3	1:bS:103:ARG:HD2	1.85	0.59
2:bO:62:GLN:HE21	2:IY:197:LYS:NZ	1.99	0.59
2:bQ:107:GLY:C	5:qp:176:ASN:CG	2.71	0.59
2:cn:61:GLY:HA2	1:iB:103:ARG:HG2	1.84	0.59
2:cn:205:MET:HE2	2:pu:63:ARG:HD2	1.84	0.59
2:cs:197:LYS:CA	2:pu:62:GLN:OE1	2.50	0.59
1:cu:99:LEU:HD21	1:nL:102:GLU:CD	2.27	0.59
1:cJ:102:GLU:HB3	2:iL:62:GLN:HG3	1.84	0.59
2:cQ:278:VAL:HG11	2:cQ:295:VAL:O	2.03	0.59
1:cX:102:GLU:HB3	2:dH:62:GLN:HG3	1.84	0.59
2:dd:62:GLN:OE1	2:eO:197:LYS:CA	2.50	0.59
2:dd:171:TYR:OH	2:eJ:20:PHE:N	2.36	0.59
2:du:294:LEU:CD2	2:du:295:VAL:HG23	2.32	0.59
1:dz:102:GLU:HB3	2:gF:62:GLN:HG3	1.84	0.59
1:dA:91:GLU:HA	2:pf:4:ILE:HD11	1.84	0.59
2:dJ:83:THR:OG1	2:dJ:203:VAL:O	2.21	0.59
1:dM:103:ARG:HD2	2:pN:61:GLY:HA3	1.85	0.59
1:dZ:103:ARG:HG2	2:nO:61:GLY:HA2	1.84	0.59
1:ea:99:LEU:HD21	1:mf:102:GLU:CD	2.27	0.59
2:ej:85:GLY:O	2:eu:2:ALA:N	2.35	0.59
2:ez:83:THR:OG1	2:ez:203:VAL:O	2.21	0.59
1:eD:103:ARG:O	2:fn:62:GLN:HB2	2.03	0.59
1:eF:62:THR:HG21	1:eF:101:VAL:HG23	1.84	0.59
2:eI:179:LEU:HD22	2:eI:209:TYR:HD2	1.68	0.59
2:fp:233:GLU:O	2:fp:237:VAL:HG22	2.02	0.59
2:fz:20:PHE:N	2:mi:171:TYR:OH	2.36	0.59
2:fA:117:LEU:HD21	2:fA:211:TYR:HA	1.84	0.59
2:fM:179:LEU:HD22	2:fM:209:TYR:HD2	1.68	0.59
2:fN:171:TYR:OH	2:lU:20:PHE:N	2.36	0.59
2:fP:274:ALA:HB1	2:fP:297:VAL:HG21	1.85	0.59
2:gf:83:THR:OG1	2:gf:203:VAL:O	2.21	0.59
2:gp:171:TYR:OH	2:hT:20:PHE:N	2.36	0.59
2:gq:117:LEU:HD21	2:gq:211:TYR:HA	1.84	0.59
2:gu:53:PHE:O	2:gu:255:ARG:NH2	2.35	0.59
1:gw:99:LEU:HD21	1:pd:102:GLU:CD	2.27	0.59
2:gR:171:TYR:OH	2:ih:20:PHE:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gT:86:VAL:HG11	2:gT:102:LEU:CD1	2.33	0.59
1:hn:103:ARG:O	2:kS:62:GLN:HB2	2.03	0.59
2:hH:62:GLN:HG3	1:kw:102:GLU:HB3	1.84	0.59
2:ig:219:VAL:HG23	2:ig:259:ILE:HD12	1.85	0.59
2:iv:63:ARG:HE	2:jN:205:MET:CE	2.15	0.59
2:iX:205:MET:CE	2:jl:63:ARG:HE	2.15	0.59
2:iZ:197:LYS:CD	1:ji:99:LEU:CA	2.68	0.59
2:ja:294:LEU:CD2	2:ja:295:VAL:HG23	2.32	0.59
2:jb:233:GLU:O	2:jb:237:VAL:HG22	2.02	0.59
2:jc:239:PHE:O	2:jc:242:VAL:HG22	2.02	0.59
1:jv:62:THR:HG21	1:jv:101:VAL:HG23	1.84	0.59
1:jw:102:GLU:CD	1:lz:99:LEU:HD21	2.27	0.59
2:jz:205:MET:HE2	2:pW:63:ARG:HD2	1.84	0.59
2:jN:171:TYR:OH	2:pI:20:PHE:N	2.36	0.59
1:jV:103:ARG:O	2:na:62:GLN:HB2	2.03	0.59
2:kf:83:THR:OG1	2:kf:203:VAL:O	2.21	0.59
2:kr:5:THR:HG23	2:kr:5:THR:O	2.03	0.59
2:kt:182:LEU:HD12	2:kt:182:LEU:O	1.93	0.59
2:kD:197:LYS:HZ1	1:lP:99:LEU:CA	2.07	0.59
2:kD:224:TRP:CZ2	2:kD:242:VAL:HG11	2.37	0.59
1:kM:62:THR:HG21	1:kM:101:VAL:HG23	1.84	0.59
2:kP:179:LEU:HD22	2:kP:209:TYR:HD2	1.68	0.59
2:kV:53:PHE:O	2:kV:255:ARG:NH2	2.35	0.59
2:ld:219:VAL:HG23	2:ld:259:ILE:HD12	1.85	0.59
2:le:171:TYR:OH	2:mK:20:PHE:N	2.36	0.59
2:lx:61:GLY:HA3	1:pP:103:ARG:HD2	1.85	0.59
1:me:62:THR:HG21	1:me:101:VAL:HG23	1.84	0.59
2:mi:20:PHE:N	2:mw:171:TYR:OH	2.36	0.59
2:ml:294:LEU:CD2	2:ml:295:VAL:HG23	2.32	0.59
1:ms:58:PHE:CD1	1:ms:101:VAL:HG21	2.37	0.59
2:mA:83:THR:OG1	2:mA:203:VAL:O	2.21	0.59
2:mA:233:GLU:O	2:mA:237:VAL:HG22	2.02	0.59
2:nb:5:THR:O	2:nb:5:THR:HG23	2.03	0.59
2:nc:233:GLU:O	2:nc:237:VAL:HG22	2.02	0.59
2:nn:117:LEU:HD21	2:nn:211:TYR:HA	1.84	0.59
2:nq:83:THR:OG1	2:nq:203:VAL:O	2.21	0.59
2:nQ:85:GLY:O	2:ob:2:ALA:N	2.35	0.59
2:ob:219:VAL:HG23	2:ob:259:ILE:HD12	1.85	0.59
2:oc:106:MET:HG3	2:oc:184:TYR:CD1	2.36	0.59
2:od:117:LEU:HD21	2:od:211:TYR:HA	1.84	0.59
2:od:278:VAL:HG11	2:od:295:VAL:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oh:239:PHE:O	2:oh:242:VAL:HG22	2.02	0.59
2:oq:63:ARG:HE	2:pW:205:MET:CE	2.15	0.59
2:oG:274:ALA:HB1	2:oG:297:VAL:HG21	1.85	0.59
2:ph:117:LEU:HD21	2:ph:211:TYR:HA	1.84	0.59
2:ph:278:VAL:HG11	2:ph:295:VAL:O	2.03	0.59
2:pk:86:VAL:HG11	2:pk:102:LEU:HD11	1.85	0.59
2:pv:278:VAL:HG11	2:pv:295:VAL:O	2.03	0.59
2:pH:219:VAL:HG23	2:pH:259:ILE:HD12	1.85	0.59
1:pP:102:GLU:OE1	2:pX:197:LYS:NZ	2.30	0.59
2:pY:274:ALA:HB1	2:pY:297:VAL:HG21	1.85	0.59
2:pZ:5:THR:O	2:pZ:5:THR:HG23	2.03	0.59
3:qd:64:GLY:O	4:qm:220:SER:N	2.36	0.59
3:qf:68:ALA:HB2	4:ql:8:TYR:OH	2.02	0.59
3:qh:117:ASP:O	4:qk:6:TYR:OH	2.21	0.59
3:qi:84:TYR:CD1	6:qM:20:GLU:CD	2.78	0.59
6:qq:53:HIS:HB3	6:qM:109:SER:HB3	1.84	0.59
5:qr:255:VAL:CG1	5:qt:263:ALA:HB1	2.31	0.59
5:qt:392:LEU:CD1	5:qv:400:TYR:HH	2.14	0.59
5:qB:229:ILE:HD13	5:qD:232:LEU:HD21	1.85	0.59
5:qJ:245:ASP:OD1	6:qM:121:VAL:CG2	2.50	0.59
6:qK:112:LEU:CD2	6:qM:58:LEU:HD13	0.62	0.59
1:aa:103:ARG:HD2	2:nr:61:GLY:HA3	1.85	0.58
2:aw:226:LEU:HD13	2:aw:270:LEU:HD13	1.83	0.58
1:aB:99:LEU:HD21	1:mV:102:GLU:CD	2.27	0.58
1:aC:103:ARG:O	2:hu:62:GLN:HB2	2.03	0.58
1:aQ:103:ARG:O	2:jn:62:GLN:HB2	2.03	0.58
2:aW:205:MET:HE2	2:bk:63:ARG:HD2	1.84	0.58
2:aX:278:VAL:HG11	2:aX:295:VAL:O	2.03	0.58
2:bp:61:GLY:HA3	1:ki:103:ARG:HD2	1.85	0.58
2:by:63:ARG:CD	2:dd:205:MET:HE2	2.34	0.58
2:bB:5:THR:HG23	2:bB:5:THR:O	2.03	0.58
1:bF:103:ARG:HD2	2:gW:61:GLY:HA3	1.85	0.58
1:bG:103:ARG:O	2:gr:62:GLN:HB2	2.03	0.58
1:bU:91:GLU:HA	2:iI:4:ILE:HD11	1.84	0.58
2:ca:278:VAL:HG11	2:ca:295:VAL:O	2.03	0.58
2:ce:61:GLY:HA3	1:eQ:103:ARG:HD2	1.85	0.58
2:cm:219:VAL:HG23	2:cm:259:ILE:HD12	1.85	0.58
2:cn:63:ARG:HD2	2:iv:205:MET:HE2	1.84	0.58
2:cA:219:VAL:HG23	2:cA:259:ILE:HD12	1.85	0.58
2:cB:205:MET:CE	2:cP:63:ARG:HE	2.15	0.58
2:cC:278:VAL:HG11	2:cC:295:VAL:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cO:219:VAL:HG23	2:cO:259:ILE:HD12	1.85	0.58
1:cV:103:ARG:HG2	2:eX:61:GLY:HA2	1.84	0.58
2:df:62:GLN:HB2	1:gx:103:ARG:O	2.03	0.58
2:dh:83:THR:OG1	2:dh:203:VAL:O	2.21	0.58
1:dk:99:LEU:HD21	1:km:102:GLU:CD	2.27	0.58
2:dw:61:GLY:HA3	1:hM:103:ARG:HD2	1.85	0.58
2:dF:205:MET:CE	2:pg:63:ARG:HE	2.15	0.58
2:dH:85:GLY:O	2:pf:2:ALA:N	2.35	0.58
2:dI:5:THR:O	2:dI:5:THR:HG23	2.03	0.58
2:dT:20:PHE:N	2:nO:171:TYR:OH	2.36	0.58
1:eC:103:ARG:HD2	2:im:61:GLY:HA3	1.85	0.58
2:eI:2:ALA:N	2:gr:85:GLY:O	2.35	0.58
2:eI:197:LYS:HZ2	1:gv:100:LYS:HD2	1.67	0.58
2:eJ:63:ARG:HE	2:gp:205:MET:CE	2.15	0.58
2:eY:278:VAL:HG11	2:eY:295:VAL:O	2.03	0.58
2:fl:63:ARG:HE	2:gD:205:MET:CE	2.15	0.58
1:fv:62:THR:HG21	1:fv:101:VAL:HG23	1.84	0.58
2:fB:62:GLN:HB2	1:nW:103:ARG:O	2.03	0.58
2:fD:83:THR:OG1	2:fD:203:VAL:O	2.21	0.58
2:fE:53:PHE:O	2:fE:255:ARG:NH2	2.36	0.58
1:fU:66:ARG:NH1	1:fU:75:LYS:O	2.34	0.58
2:gd:62:GLN:HB2	1:mc:103:ARG:O	2.03	0.58
2:gF:274:ALA:HB1	2:gF:297:VAL:HG21	1.85	0.58
2:gG:107:GLY:CA	2:gG:184:TYR:CE1	2.85	0.58
2:gR:61:GLY:HA2	1:in:103:ARG:HG2	1.84	0.58
2:hw:86:VAL:HG11	2:hw:102:LEU:HD11	1.85	0.58
2:hJ:86:VAL:HG11	2:hJ:102:LEU:HD11	1.85	0.58
2:hW:5:THR:O	2:hW:5:THR:HG23	2.03	0.58
2:il:83:THR:OG1	2:il:203:VAL:O	2.21	0.58
1:iQ:102:GLU:OE1	2:iY:197:LYS:NZ	2.29	0.58
2:jb:83:THR:OG1	2:jb:203:VAL:O	2.21	0.58
2:jl:134:GLN:OE1	2:jl:134:GLN:N	2.30	0.58
2:jn:85:GLY:O	2:lr:2:ALA:N	2.35	0.58
2:jq:239:PHE:O	2:jq:242:VAL:HG22	2.02	0.58
1:js:102:GLU:OE1	2:jA:197:LYS:NZ	2.30	0.58
1:jt:102:GLU:HB3	2:kd:62:GLN:HG3	1.85	0.58
2:jz:171:TYR:OH	2:le:20:PHE:N	2.36	0.58
2:jA:278:VAL:HG11	2:jA:295:VAL:O	2.03	0.58
2:jD:83:THR:OG1	2:jD:203:VAL:O	2.21	0.58
2:jQ:107:GLY:CA	2:jQ:184:TYR:CE1	2.85	0.58
2:jS:36:THR:O	2:jS:175:THR:OG1	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jS:61:GLY:HA3	1:oj:103:ARG:HD2	1.85	0.58
2:ka:4:ILE:HD11	1:ln:91:GLU:HA	1.84	0.58
2:kc:117:LEU:HD21	2:kc:211:TYR:HA	1.84	0.58
1:kX:99:LEU:HD21	1:nj:102:GLU:CD	2.27	0.58
2:le:63:ARG:CD	2:mK:205:MET:HE2	2.33	0.58
2:le:63:ARG:HE	2:mK:205:MET:CE	2.15	0.58
2:le:63:ARG:HD2	2:mK:205:MET:HE2	1.84	0.58
2:IV:278:VAL:HG11	2:IV:295:VAL:O	2.03	0.58
2:mi:205:MET:HE2	2:mw:63:ARG:HD2	1.85	0.58
1:mC:103:ARG:HG2	2:oe:61:GLY:HA2	1.84	0.58
2:nb:107:GLY:HA2	2:nb:184:TYR:HE1	1.66	0.58
2:nm:62:GLN:OE1	2:oJ:197:LYS:CA	2.50	0.58
2:no:226:LEU:HD13	2:no:270:LEU:HD13	1.83	0.58
2:nQ:62:GLN:HB2	1:pa:103:ARG:O	2.03	0.58
2:og:83:THR:OG1	2:og:203:VAL:O	2.21	0.58
2:og:86:VAL:HG11	2:og:102:LEU:HD11	1.85	0.58
2:ot:294:LEU:CD2	2:ot:295:VAL:HG23	2.32	0.58
2:ou:87:LYS:NZ	2:ou:201:GLU:OE1	2.27	0.58
2:OT:117:LEU:HD21	2:OT:211:TYR:HA	1.84	0.58
2:px:107:GLY:CA	2:px:184:TYR:CE1	2.85	0.58
1:pE:62:THR:HG21	1:pE:101:VAL:HG23	1.84	0.58
2:pJ:278:VAL:HG11	2:pJ:295:VAL:O	2.03	0.58
2:pX:278:VAL:HG11	2:pX:295:VAL:O	2.03	0.58
4:qk:89:VAL:CG2	4:ql:245:ASP:HB2	2.21	0.58
5:qp:400:TYR:HH	5:qL:392:LEU:CD1	2.16	0.58
5:qx:392:LEU:HD12	5:qz:400:TYR:HE1	1.58	0.58
2:ah:20:PHE:N	2:oS:171:TYR:OH	2.36	0.58
2:aj:62:GLN:HB2	1:ng:103:ARG:O	2.03	0.58
2:am:197:LYS:CA	2:oS:62:GLN:OE1	2.50	0.58
1:ap:103:ARG:O	2:dt:62:GLN:HB2	2.03	0.58
2:al:63:ARG:HD2	2:kb:205:MET:HE2	1.85	0.58
2:aM:83:THR:OG1	2:aM:203:VAL:O	2.21	0.58
1:aU:100:LYS:N	2:iO:197:LYS:CE	2.60	0.58
2:bj:219:VAL:HG23	2:bj:259:ILE:HD12	1.85	0.58
2:bl:278:VAL:HG11	2:bl:295:VAL:O	2.03	0.58
1:bt:105:THR:CG2	2:hU:60:ILE:CG2	2.62	0.58
2:bx:179:LEU:HD22	2:bx:209:TYR:HD2	1.68	0.58
2:cb:226:LEU:HD13	2:cb:270:LEU:HD13	1.83	0.58
2:cc:107:GLY:CA	2:cc:184:TYR:CE1	2.85	0.58
1:cf:103:ARG:HG2	2:iJ:61:GLY:HA2	1.84	0.58
2:cm:4:ILE:HD11	1:iq:91:GLU:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cB:106:MET:HG3	2:cB:184:TYR:CD1	2.36	0.58
2:cF:233:GLU:O	2:cF:237:VAL:HG22	2.02	0.58
2:cG:61:GLY:HA3	1:pB:103:ARG:HD2	1.85	0.58
2:cG:197:LYS:CA	2:cP:62:GLN:OE1	2.50	0.58
2:cS:107:GLY:CA	2:cS:184:TYR:CE1	2.86	0.58
2:dc:219:VAL:HG23	2:dc:259:ILE:HD12	1.85	0.58
1:dl:102:GLU:HB3	2:hV:62:GLN:HG3	1.85	0.58
2:dt:86:VAL:HG11	2:dt:102:LEU:CD1	2.33	0.58
2:dJ:86:VAL:HG11	2:dJ:102:LEU:HD11	1.85	0.58
2:dT:205:MET:HE2	2:nO:63:ARG:HD2	1.85	0.58
2:dV:62:GLN:HG3	1:pC:102:GLU:HB3	1.84	0.58
2:eh:63:ARG:HD2	2:nA:205:MET:HE2	1.85	0.58
2:ej:62:GLN:HG3	1:ft:102:GLU:HB3	1.84	0.58
2:ev:20:PHE:N	2:gD:171:TYR:OH	2.36	0.58
2:eI:219:VAL:HG23	2:eI:259:ILE:HD12	1.85	0.58
2:eW:219:VAL:HG23	2:eW:259:ILE:HD12	1.85	0.58
2:eY:117:LEU:HD21	2:eY:211:TYR:HA	1.84	0.58
2:fz:5:THR:OG1	2:fz:6:PRO:HD3	2.04	0.58
1:fH:102:GLU:HB3	2:my:62:GLN:HG3	1.85	0.58
2:fN:20:PHE:N	2:gb:171:TYR:OH	2.36	0.58
2:fN:205:MET:HE2	2:gb:63:ARG:HD2	1.85	0.58
2:gF:226:LEU:HD13	2:gF:270:LEU:HD13	1.83	0.58
2:gV:83:THR:OG1	2:gV:203:VAL:O	2.21	0.58
1:gY:99:LEU:HD21	1:oB:102:GLU:CD	2.27	0.58
2:hF:63:ARG:HE	2:lG:205:MET:CE	2.15	0.58
1:hQ:102:GLU:CD	1:iQ:99:LEU:HD21	2.27	0.58
2:hu:274:ALA:HB1	2:hu:297:VAL:HG21	1.85	0.58
2:hF:219:VAL:HG23	2:hF:259:ILE:HD12	1.85	0.58
2:hG:278:VAL:HG11	2:hG:295:VAL:O	2.03	0.58
2:hH:186:GLU:O	2:IV:191:SER:OG	2.08	0.58
2:hI:5:THR:O	2:hI:5:THR:HG23	2.03	0.58
2:hU:278:VAL:HG11	2:hU:295:VAL:O	2.03	0.58
2:iv:61:GLY:HA2	1:jT:103:ARG:HG2	1.84	0.58
2:iA:239:PHE:O	2:iA:242:VAL:HG22	2.02	0.58
2:jl:20:PHE:N	2:ls:171:TYR:OH	2.36	0.58
2:jQ:294:LEU:CD2	2:jQ:295:VAL:HG23	2.32	0.58
2:ke:107:GLY:CA	2:ke:184:TYR:CE1	2.86	0.58
2:ko:31:TYR:CE2	5:qF:178:PRO:HG3	2.35	0.58
2:ks:233:GLU:O	2:ks:237:VAL:HG22	2.02	0.58
1:kJ:66:ARG:NH1	1:kJ:75:LYS:O	2.34	0.58
2:kQ:134:GLN:OE1	2:kQ:134:GLN:N	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kU:86:VAL:HG11	2:kU:102:LEU:HD11	1.85	0.58
2:lw:86:VAL:HG11	2:lw:102:LEU:HD11	1.85	0.58
2:mk:85:GLY:O	2:mv:2:ALA:N	2.35	0.58
2:ml:5:THR:HG23	2:ml:5:THR:O	2.03	0.58
2:mz:107:GLY:CA	2:mz:184:TYR:CE1	2.85	0.58
2:mB:141:HIS:N	2:mB:148:ASP:O	2.35	0.58
2:nO:20:PHE:N	2:oc:171:TYR:OH	2.36	0.58
2:nP:278:VAL:HG11	2:nP:295:VAL:O	2.03	0.58
2:nT:141:HIS:N	2:nT:148:ASP:O	2.35	0.58
2:oe:274:ALA:HB1	2:oe:297:VAL:HG21	1.85	0.58
2:op:179:LEU:HD22	2:op:209:TYR:HD2	1.68	0.58
2:oJ:141:HIS:N	2:oJ:148:ASP:O	2.35	0.58
2:pf:219:VAL:HG23	2:pf:259:ILE:HD12	1.85	0.58
2:pk:83:THR:OG1	2:pk:203:VAL:O	2.21	0.58
2:pu:205:MET:CE	2:pI:63:ARG:HE	2.15	0.58
2:pX:224:TRP:CZ2	2:pX:242:VAL:HG11	2.37	0.58
2:qb:53:PHE:O	2:qb:255:ARG:NH2	2.35	0.58
3:qg:63:GLN:O	4:qk:33:SER:O	2.20	0.58
4:qj:63:GLY:HA2	4:qk:54:LYS:HG3	1.84	0.58
6:qu:109:SER:HB3	6:qw:53:HIS:HB3	1.84	0.58
6:qE:65:THR:CB	6:qG:46:SER:OG	2.51	0.58
6:qK:109:SER:HB3	6:qM:53:HIS:HB3	1.84	0.58
1:ab:103:ARG:O	2:mM:62:GLN:HB2	2.03	0.58
1:ad:62:THR:HG21	1:ad:101:VAL:HG23	1.84	0.58
2:ag:67:ASP:OD1	1:an:95:SER:OG	2.13	0.58
2:ag:179:LEU:HD22	2:ag:209:TYR:HD2	1.68	0.58
2:aj:274:ALA:HB1	2:aj:297:VAL:HG21	1.85	0.58
2:al:233:GLU:O	2:al:237:VAL:HG22	2.02	0.58
2:av:224:TRP:CZ2	2:av:242:VAL:HG11	2.37	0.58
2:aw:86:VAL:HG11	2:aw:102:LEU:CD1	2.33	0.58
2:aI:62:GLN:OE1	2:kg:197:LYS:CA	2.50	0.58
2:aI:78:LYS:NZ	2:iX:58:GLU:OE1	2.27	0.58
2:aI:205:MET:HE2	2:iX:63:ARG:CD	2.34	0.58
2:aJ:117:LEU:HD21	2:aJ:211:TYR:HA	1.84	0.58
2:aW:171:TYR:OH	2:iJ:20:PHE:N	2.36	0.58
1:bd:66:ARG:NH1	1:bd:75:LYS:O	2.34	0.58
1:bh:102:GLU:CD	1:je:99:LEU:HD21	2.27	0.58
2:bm:205:MET:SD	2:bp:63:ARG:NE	2.75	0.58
2:by:171:TYR:OH	2:dd:20:PHE:N	2.36	0.58
2:bA:85:GLY:O	2:hS:2:ALA:N	2.35	0.58
2:bB:294:LEU:CD2	2:bB:295:VAL:HG23	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bM:278:VAL:HG11	2:bM:295:VAL:O	2.03	0.58
1:bU:99:LEU:CA	2:eY:197:LYS:NZ	2.59	0.58
2:bZ:61:GLY:HA2	1:dx:103:ARG:HG2	1.84	0.58
2:bZ:63:ARG:CD	2:dr:205:MET:HE2	2.34	0.58
2:co:197:LYS:NZ	1:jg:99:LEU:CA	2.59	0.58
2:cr:83:THR:OG1	2:cr:203:VAL:O	2.21	0.58
2:cB:63:ARG:CD	2:pg:205:MET:HE2	2.34	0.58
2:cB:63:ARG:HE	2:pg:205:MET:CE	2.15	0.58
2:cB:171:TYR:OH	2:pg:20:PHE:N	2.36	0.58
2:cC:224:TRP:CZ2	2:cC:242:VAL:HG11	2.37	0.58
2:cO:179:LEU:HD22	2:cO:209:TYR:HD2	1.68	0.58
2:dd:63:ARG:CD	2:eJ:205:MET:HE2	2.33	0.58
2:df:62:GLN:HG3	1:gx:102:GLU:HB3	1.84	0.58
2:dg:5:THR:HG23	2:dg:5:THR:O	2.03	0.58
2:dq:219:VAL:HG23	2:dq:259:ILE:HD12	1.85	0.58
2:ds:278:VAL:HG11	2:ds:295:VAL:O	2.03	0.58
2:dv:86:VAL:HG11	2:dv:102:LEU:HD11	1.86	0.58
2:dF:61:GLY:HA2	1:fd:103:ARG:HG2	1.84	0.58
2:dF:205:MET:HE2	2:pg:63:ARG:HD2	1.85	0.58
2:dT:63:ARG:CD	2:oS:205:MET:HE2	2.33	0.58
2:dT:171:TYR:OH	2:oS:20:PHE:N	2.36	0.58
2:dY:197:LYS:CE	1:nM:100:LYS:N	2.60	0.58
1:ea:66:ARG:NH1	1:ea:75:LYS:O	2.34	0.58
1:eb:102:GLU:HB3	2:oe:62:GLN:HG3	1.85	0.58
1:eo:102:GLU:OE1	2:ew:197:LYS:NZ	2.29	0.58
2:ev:78:LYS:NZ	2:gD:58:GLU:OE1	2.27	0.58
2:ez:233:GLU:O	2:ez:237:VAL:HG22	2.02	0.58
2:eA:53:PHE:O	2:eA:255:ARG:NH2	2.36	0.58
1:eQ:99:LEU:HD21	1:iG:102:GLU:CD	2.27	0.58
2:eW:179:LEU:HD22	2:eW:209:TYR:HD2	1.68	0.58
2:fa:294:LEU:CD2	2:fa:295:VAL:HG23	2.32	0.58
2:fb:86:VAL:HG11	2:fb:102:LEU:HD11	1.85	0.58
2:fl:5:THR:OG1	2:fl:6:PRO:HD3	2.04	0.58
2:fz:61:GLY:HA2	1:ns:103:ARG:HG2	1.84	0.58
2:fP:62:GLN:HG3	1:gZ:102:GLU:HB3	1.84	0.58
2:fr:83:THR:OG1	2:fr:203:VAL:O	2.21	0.58
2:gd:62:GLN:HG3	1:mc:102:GLU:HB3	1.84	0.58
2:gq:278:VAL:HG11	2:gq:295:VAL:O	2.03	0.58
1:gN:62:THR:HG21	1:gN:101:VAL:HG23	1.84	0.58
2:gR:62:GLN:OE1	2:im:197:LYS:CA	2.50	0.58
2:gT:274:ALA:HB1	2:gT:297:VAL:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gY:103:ARG:HD2	2:mB:61:GLY:HA3	1.85	0.58
2:hj:233:GLU:O	2:hj:237:VAL:HG22	2.02	0.58
2:hx:184:TYR:CD2	5:qz:30:LYS:HB3	2.38	0.58
2:ii:117:LEU:HD21	2:ii:211:TYR:HA	1.84	0.58
2:ij:274:ALA:HB1	2:ij:297:VAL:HG21	1.86	0.58
2:im:36:THR:O	2:im:175:THR:OG1	2.18	0.58
1:it:99:LEU:CD2	1:jT:102:GLU:OE2	2.43	0.58
2:iu:179:LEU:HD22	2:iu:209:TYR:HD2	1.68	0.58
2:iw:60:ILE:CG2	1:jI:105:THR:CG2	2.62	0.58
2:iA:61:GLY:HA3	1:il:103:ARG:HD2	1.85	0.58
2:iI:179:LEU:HD22	2:iI:209:TYR:HD2	1.68	0.58
2:iJ:184:TYR:HH	2:iJ:204:PHE:HD1	1.42	0.58
2:iL:86:VAL:HG11	2:iL:102:LEU:CD1	2.33	0.58
2:iX:134:GLN:OE1	2:iX:134:GLN:N	2.30	0.58
2:iX:205:MET:HE2	2:jl:63:ARG:HD2	1.84	0.58
2:jy:2:ALA:N	2:lg:85:GLY:O	2.35	0.58
2:jz:5:THR:OG1	2:jz:6:PRO:HD3	2.04	0.58
2:jz:63:ARG:CD	2:le:205:MET:HE2	2.34	0.58
2:ko:219:VAL:HG23	2:ko:259:ILE:HD12	1.85	0.58
2:kC:5:THR:OG1	2:kC:6:PRO:HD3	2.04	0.58
2:kC:106:MET:HG3	2:kC:184:TYR:CD1	2.36	0.58
2:kC:121:LEU:O	2:kC:214:ARG:NH2	2.37	0.58
2:kG:83:THR:OG1	2:kG:203:VAL:O	2.21	0.58
2:lg:62:GLN:HB2	1:oy:103:ARG:O	2.03	0.58
2:lw:233:GLU:O	2:lw:237:VAL:HG22	2.02	0.58
2:II:274:ALA:HB1	2:II:297:VAL:HG21	1.85	0.58
2:IK:83:THR:OG1	2:IK:203:VAL:O	2.21	0.58
2:IL:61:GLY:HA3	1:ox:103:ARG:HD2	1.85	0.58
2:lZ:36:THR:O	2:lZ:175:THR:OG1	2.18	0.58
2:mi:205:MET:HE2	2:mw:63:ARG:CD	2.34	0.58
2:mn:197:LYS:CE	1:mu:100:LYS:N	2.60	0.58
2:mZ:117:LEU:HD21	2:mZ:211:TYR:HA	1.84	0.58
2:na:226:LEU:HD13	2:na:270:LEU:HD13	1.83	0.58
2:nd:141:HIS:N	2:nd:148:ASP:O	2.35	0.58
2:nm:171:TYR:OH	2:oE:20:PHE:N	2.36	0.58
2:nA:121:LEU:O	2:nA:214:ARG:NH2	2.37	0.58
2:nQ:274:ALA:HB1	2:nQ:297:VAL:HG21	1.86	0.58
2:of:5:THR:O	2:of:5:THR:HG23	2.03	0.58
2:og:171:TYR:OH	2:og:175:THR:OG1	2.12	0.58
2:oq:171:TYR:OH	2:pW:20:PHE:N	2.36	0.58
2:ot:5:THR:HG23	2:ot:5:THR:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oE:106:MET:HG3	2:oE:184:TYR:CD1	2.36	0.58
2:oT:278:VAL:HG11	2:oT:295:VAL:O	2.03	0.58
2:pg:106:MET:HG3	2:pg:184:TYR:CD1	2.36	0.58
2:pw:274:ALA:HB1	2:pw:297:VAL:HG21	1.85	0.58
2:pK:86:VAL:HG11	2:pK:102:LEU:CD1	2.33	0.58
2:pL:5:THR:HG23	2:pL:5:THR:O	2.03	0.58
3:qf:61:ASP:CA	4:ql:33:SER:HB3	1.86	0.58
4:qj:202:ILE:HD13	4:qo:116:PHE:CD1	2.26	0.58
5:qp:35:HIS:CE1	5:qL:53:GLU:CD	2.80	0.58
6:qq:11:GLU:CD	6:qs:39:ARG:HD2	2.29	0.58
6:qq:46:SER:OG	6:qM:65:THR:CB	2.51	0.58
6:qq:109:SER:HB3	6:qs:53:HIS:HB3	1.84	0.58
5:qr:53:GLU:CD	5:qt:35:HIS:CE1	2.80	0.58
6:qs:11:GLU:CD	6:qu:39:ARG:HD2	2.29	0.58
2:am:36:THR:O	2:am:175:THR:OG1	2.18	0.58
2:aW:20:PHE:N	2:bk:171:TYR:OH	2.36	0.58
2:aY:62:GLN:HG3	1:ch:102:GLU:HB3	1.84	0.58
2:bb:53:PHE:O	2:bb:255:ARG:NH2	2.36	0.58
1:bv:102:GLU:CD	1:dy:99:LEU:HD21	2.27	0.58
2:bL:219:VAL:HG23	2:bL:259:ILE:HD12	1.85	0.58
2:cn:171:TYR:OH	2:iv:20:PHE:N	2.36	0.58
2:co:117:LEU:HD21	2:co:211:TYR:HA	1.84	0.58
1:cv:103:ARG:O	2:pK:62:GLN:HB2	2.03	0.58
2:cB:5:THR:OG1	2:cB:6:PRO:HD3	2.04	0.58
2:cG:141:HIS:N	2:cG:148:ASP:O	2.35	0.58
1:cI:99:LEU:HD21	1:pF:102:GLU:CD	2.27	0.58
1:cK:91:GLU:HA	2:eW:4:ILE:HD11	1.84	0.58
2:cP:20:PHE:N	2:eX:171:TYR:OH	2.36	0.58
2:dc:4:ILE:HD11	1:eE:91:GLU:HA	1.84	0.58
2:de:278:VAL:HG11	2:de:295:VAL:O	2.03	0.58
2:dr:5:THR:OG1	2:dr:6:PRO:HD3	2.04	0.58
2:ds:117:LEU:HD21	2:ds:211:TYR:HA	1.84	0.58
2:dG:278:VAL:HG11	2:dG:295:VAL:O	2.03	0.58
2:dS:219:VAL:HG23	2:dS:259:ILE:HD12	1.85	0.58
2:dT:5:THR:OG1	2:dT:6:PRO:HD3	2.04	0.58
2:ex:62:GLN:HB2	1:nI:103:ARG:O	2.03	0.58
1:eD:102:GLU:HB3	2:fn:62:GLN:HG3	1.84	0.58
2:eJ:63:ARG:CD	2:gp:205:MET:HE2	2.34	0.58
2:eN:83:THR:OG1	2:eN:203:VAL:O	2.21	0.58
2:fy:197:LYS:HZ2	1:ns:100:LYS:HD2	1.69	0.58
2:fz:63:ARG:HD2	2:nm:205:MET:HE2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fz:205:MET:CE	2:mi:63:ARG:HE	2.15	0.58
2:fP:86:VAL:HG11	2:fP:102:LEU:CD1	2.33	0.58
2:fS:53:PHE:O	2:fS:255:ARG:NH2	2.35	0.58
1:fV:60:ARG:NH1	1:nu:99:LEU:CD1	2.25	0.58
2:go:219:VAL:HG23	2:go:259:ILE:HD12	1.85	0.58
2:gt:86:VAL:HG11	2:gt:102:LEU:HD11	1.85	0.58
2:gD:106:MET:HG3	2:gD:184:TYR:CD1	2.36	0.58
2:gW:86:VAL:O	2:gW:202:GLN:N	2.37	0.58
2:hk:53:PHE:O	2:hk:255:ARG:NH2	2.35	0.58
2:hw:83:THR:OG1	2:hw:203:VAL:O	2.21	0.58
2:hK:184:TYR:CE2	5:qt:178:PRO:HA	2.39	0.58
2:hV:86:VAL:HG11	2:hV:102:LEU:CD1	2.33	0.58
2:ih:106:MET:HG3	2:ih:184:TYR:CD1	2.36	0.58
2:ii:278:VAL:HG11	2:ii:295:VAL:O	2.03	0.58
1:ip:103:ARG:O	2:lu:62:GLN:HB2	2.03	0.58
1:is:102:GLU:CD	1:oj:99:LEU:HD21	2.27	0.58
2:iw:278:VAL:HG11	2:iw:295:VAL:O	2.03	0.58
2:iz:86:VAL:HG11	2:iz:102:LEU:HD11	1.85	0.58
2:iJ:134:GLN:OE1	2:iJ:134:GLN:N	2.30	0.58
2:iY:117:LEU:HD21	2:iY:211:TYR:HA	1.84	0.58
2:jb:86:VAL:HG11	2:jb:102:LEU:HD11	1.86	0.58
2:jc:36:THR:O	2:jc:175:THR:OG1	2.18	0.58
2:jn:274:ALA:HB1	2:jn:297:VAL:HG21	1.85	0.58
2:jy:219:VAL:HG23	2:jy:259:ILE:HD12	1.85	0.58
2:jz:205:MET:HE2	2:pW:63:ARG:CD	2.34	0.58
2:jC:5:THR:O	2:jC:5:THR:HG23	2.03	0.58
1:jL:100:LYS:N	2:pN:197:LYS:CE	2.60	0.58
2:jN:63:ARG:CD	2:pI:205:MET:HE2	2.34	0.58
2:jN:121:LEU:O	2:jN:214:ARG:NH2	2.37	0.58
2:kg:36:THR:O	2:kg:175:THR:OG1	2.18	0.58
2:ko:31:TYR:HE2	5:qF:178:PRO:HG3	1.64	0.58
2:kT:107:GLY:CA	2:kT:184:TYR:CE1	2.86	0.58
2:kU:83:THR:OG1	2:kU:203:VAL:O	2.21	0.58
2:lX:5:THR:O	2:lX:5:THR:HG23	2.03	0.58
1:mb:103:ARG:HD2	2:nF:61:GLY:HA3	1.85	0.58
2:mk:62:GLN:HG3	1:nu:102:GLU:HB3	1.85	0.58
2:mk:274:ALA:HB1	2:mk:297:VAL:HG21	1.85	0.58
2:mn:197:LYS:CA	2:mw:62:GLN:OE1	2.50	0.58
2:mw:205:MET:CE	2:oE:63:ARG:HE	2.15	0.58
2:mx:278:VAL:HG11	2:mx:295:VAL:O	2.03	0.58
2:nE:83:THR:OG1	2:nE:203:VAL:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nN:179:LEU:HD22	2:nN:209:TYR:HD2	1.68	0.58
2:nS:86:VAL:HG11	2:nS:102:LEU:HD11	1.85	0.58
1:oj:63:VAL:HG22	1:oj:74:ASP:HB3	1.86	0.58
2:ov:86:VAL:O	2:ov:202:GLN:N	2.37	0.58
2:oJ:36:THR:O	2:oJ:175:THR:OG1	2.18	0.58
2:oR:219:VAL:HG23	2:oR:259:ILE:HD12	1.85	0.58
2:pj:5:THR:HG23	2:pj:5:THR:O	2.03	0.58
2:pV:179:LEU:HD22	2:pV:209:TYR:HD2	1.68	0.58
2:pZ:294:LEU:CD2	2:pZ:295:VAL:HG23	2.32	0.58
3:qe:68:ALA:HB2	4:qm:8:TYR:CE2	2.38	0.58
3:qg:98:ALA:O	3:qg:102:LEU:N	2.27	0.58
6:qq:39:ARG:HD2	6:qM:11:GLU:CD	2.29	0.58
6:qu:11:GLU:CD	6:qw:39:ARG:HD2	2.29	0.58
6:qw:65:THR:CB	6:qy:46:SER:OG	2.51	0.58
5:qF:96:ARG:HD3	5:qH:114:LEU:CD2	2.27	0.58
6:qG:112:LEU:CD2	6:qI:58:LEU:HD13	0.62	0.58
1:aa:63:VAL:HG22	1:aa:74:ASP:HB3	1.86	0.58
2:al:86:VAL:HG11	2:al:102:LEU:HD11	1.86	0.58
2:ax:107:GLY:CA	2:ax:184:TYR:CE1	2.85	0.58
2:aK:62:GLN:HB2	1:kK:103:ARG:O	2.03	0.58
2:aV:219:VAL:HG23	2:aV:259:ILE:HD12	1.85	0.58
2:aW:121:LEU:O	2:aW:214:ARG:NH2	2.37	0.58
2:aY:274:ALA:HB1	2:aY:297:VAL:HG21	1.85	0.58
2:aZ:5:THR:HG23	2:aZ:5:THR:O	2.03	0.58
1:bg:62:THR:HG21	1:bg:101:VAL:HG23	1.84	0.58
2:bn:5:THR:HG23	2:bn:5:THR:O	2.03	0.58
2:bz:224:TRP:CZ2	2:bz:242:VAL:HG11	2.37	0.58
1:bI:62:THR:HG21	1:bI:101:VAL:HG23	1.84	0.58
2:bN:274:ALA:HB1	2:bN:297:VAL:HG21	1.85	0.58
2:bP:83:THR:OG1	2:bP:203:VAL:O	2.21	0.58
2:bZ:205:MET:HE2	2:iJ:63:ARG:CD	2.34	0.58
2:bZ:205:MET:HE2	2:iJ:63:ARG:HD2	1.84	0.58
2:cb:86:VAL:HG11	2:cb:102:LEU:CD1	2.33	0.58
2:cn:205:MET:HE2	2:pu:63:ARG:CD	2.34	0.58
2:cG:53:PHE:O	2:cG:255:ARG:NH2	2.36	0.58
2:cP:205:MET:HE2	2:eX:63:ARG:CD	2.33	0.58
2:cU:36:THR:O	2:cU:175:THR:OG1	2.18	0.58
2:dd:63:ARG:HE	2:eJ:205:MET:CE	2.15	0.58
2:di:53:PHE:O	2:di:255:ARG:NH2	2.36	0.58
2:dq:179:LEU:HD22	2:dq:209:TYR:HD2	1.68	0.58
2:dr:121:LEU:O	2:dr:214:ARG:NH2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:du:5:THR:O	2:du:5:THR:HG23	2.03	0.58
2:dT:205:MET:HE2	2:nO:63:ARG:CD	2.34	0.58
2:eh:20:PHE:N	2:ev:171:TYR:OH	2.36	0.58
2:eh:62:GLN:OE1	2:nF:197:LYS:CA	2.50	0.58
2:eh:205:MET:HE2	2:ev:63:ARG:HD2	1.84	0.58
2:ej:62:GLN:HB2	1:ft:103:ARG:O	2.03	0.58
2:em:61:GLY:HA3	1:nV:103:ARG:HD2	1.85	0.58
1:eC:99:LEU:HD21	1:gO:102:GLU:CD	2.27	0.58
2:eO:61:GLY:HA3	1:fe:103:ARG:HD2	1.85	0.58
2:fl:63:ARG:CD	2:gD:205:MET:HE2	2.33	0.58
2:fm:278:VAL:HG11	2:fm:295:VAL:O	2.03	0.58
2:fz:121:LEU:O	2:fz:214:ARG:NH2	2.37	0.58
2:fz:171:TYR:OH	2:nm:20:PHE:N	2.36	0.58
2:fN:63:ARG:CD	2:lU:205:MET:HE2	2.34	0.58
2:fN:205:MET:HE2	2:gb:63:ARG:CD	2.34	0.58
2:gb:5:THR:OG1	2:gb:6:PRO:HD3	2.04	0.58
2:gb:121:LEU:O	2:gb:214:ARG:NH2	2.37	0.58
2:gp:5:THR:OG1	2:gp:6:PRO:HD3	2.04	0.58
2:gD:121:LEU:O	2:gD:214:ARG:NH2	2.37	0.58
2:gH:233:GLU:O	2:gH:237:VAL:HG22	2.02	0.58
1:gX:103:ARG:HG2	2:lU:61:GLY:HA2	1.84	0.58
1:hr:70:GLY:HA3	6:qG:117:LYS:CA	2.33	0.58
1:hr:100:LYS:N	2:kt:197:LYS:CE	2.60	0.58
2:hs:189:LYS:HE2	5:qD:31:GLU:HG2	1.84	0.58
2:ht:278:VAL:HG11	2:ht:295:VAL:O	2.03	0.58
2:hG:117:LEU:HD21	2:hG:211:TYR:HA	1.84	0.58
1:hM:63:VAL:HG22	1:hM:74:ASP:HB3	1.86	0.58
2:hX:86:VAL:HG11	2:hX:102:LEU:HD11	1.86	0.58
1:ie:102:GLU:CD	1:nt:99:LEU:HD21	2.27	0.58
2:iy:107:GLY:CA	2:iy:184:TYR:CE1	2.85	0.58
2:iO:61:GLY:HA3	1:pn:103:ARG:HD2	1.85	0.58
1:jd:100:LYS:HD2	2:jk:197:LYS:HZ2	1.69	0.58
2:jl:106:MET:HG3	2:jl:184:TYR:CD1	2.36	0.58
2:jl:205:MET:HE2	2:ls:63:ARG:HD2	1.85	0.58
2:jn:86:VAL:HG11	2:jn:102:LEU:CD1	2.33	0.58
2:jB:62:GLN:HB2	1:mS:103:ARG:O	2.03	0.58
2:jD:233:GLU:O	2:jD:237:VAL:HG22	2.02	0.58
1:jG:103:ARG:HD2	2:oX:61:GLY:HA3	1.85	0.58
1:jH:102:GLU:HB3	2:os:62:GLN:HG3	1.85	0.58
1:jH:103:ARG:O	2:os:62:GLN:HB2	2.03	0.58
2:jP:62:GLN:HB2	1:oM:103:ARG:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jP:86:VAL:HG11	2:jP:102:LEU:CD1	2.33	0.58
2:kf:86:VAL:HG11	2:kf:102:LEU:HD11	1.86	0.58
2:ks:83:THR:OG1	2:ks:203:VAL:O	2.21	0.58
2:kC:20:PHE:N	2:kQ:171:TYR:OH	2.36	0.58
2:kE:62:GLN:HB2	1:lO:103:ARG:O	2.03	0.58
2:kQ:205:MET:HE2	2:mY:63:ARG:CD	2.34	0.58
2:kQ:205:MET:HE2	2:mY:63:ARG:HD2	1.85	0.58
2:kQ:205:MET:CE	2:mY:63:ARG:HE	2.15	0.58
1:la:62:THR:HG21	1:la:101:VAL:HG23	1.84	0.58
1:lb:102:GLU:CD	1:nf:99:LEU:HD21	2.27	0.58
2:le:5:THR:OG1	2:le:6:PRO:HD3	2.04	0.58
2:lg:274:ALA:HB1	2:lg:297:VAL:HG21	1.85	0.58
2:lj:53:PHE:O	2:lj:255:ARG:NH2	2.36	0.58
2:ls:121:LEU:O	2:ls:214:ARG:NH2	2.37	0.58
2:lv:5:THR:HG23	2:lv:5:THR:O	2.03	0.58
2:lG:5:THR:OG1	2:lG:6:PRO:HD3	2.04	0.58
2:lK:86:VAL:HG11	2:lK:102:LEU:HD11	1.86	0.58
2:mw:121:LEU:O	2:mw:214:ARG:NH2	2.37	0.58
2:mK:61:GLY:HA2	1:ow:103:ARG:HG2	1.84	0.58
1:mU:62:THR:HG21	1:mU:101:VAL:HG23	1.84	0.58
2:na:274:ALA:HB1	2:na:297:VAL:HG21	1.85	0.58
2:nm:5:THR:OG1	2:nm:6:PRO:HD3	2.04	0.58
2:nr:53:PHE:O	2:nr:255:ARG:NH2	2.35	0.58
1:nt:63:VAL:HG22	1:nt:74:ASP:HB3	1.86	0.58
2:nE:86:VAL:HG11	2:nE:102:LEU:HD11	1.86	0.58
1:nH:103:ARG:HD2	2:pl:61:GLY:HA3	1.85	0.58
2:nR:5:THR:HG23	2:nR:5:THR:O	2.03	0.58
2:oq:63:ARG:CD	2:pW:205:MET:HE2	2.33	0.58
2:oq:121:LEU:O	2:oq:214:ARG:NH2	2.37	0.58
2:os:274:ALA:HB1	2:os:297:VAL:HG21	1.85	0.58
1:ox:63:VAL:HG22	1:ox:74:ASP:HB3	1.86	0.58
2:oI:83:THR:OG1	2:oI:203:VAL:O	2.21	0.58
2:oV:5:THR:HG23	2:oV:5:THR:O	2.03	0.58
2:oX:53:PHE:O	2:oX:255:ARG:NH2	2.35	0.58
2:qb:141:HIS:N	2:qb:148:ASP:O	2.35	0.58
3:qg:68:ALA:HA	4:qk:8:TYR:OH	2.03	0.58
3:qi:66:GLN:H	4:qo:10:GLN:N	2.02	0.58
5:qp:53:GLU:CD	5:qr:35:HIS:CE1	2.80	0.58
6:qy:65:THR:CB	6:qA:46:SER:OG	2.51	0.58
5:qz:255:VAL:CG1	5:qB:263:ALA:HB1	2.31	0.58
6:qA:65:THR:CG2	6:qC:46:SER:OG	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qD:96:ARG:HD3	5:qF:114:LEU:CD2	2.27	0.58
6:qE:65:THR:CG2	6:qG:46:SER:OG	2.52	0.58
6:qG:109:SER:HB3	6:qI:53:HIS:HB3	1.84	0.58
6:qI:48:ILE:HG21	6:qI:67:LEU:CD1	2.32	0.58
2:ah:5:THR:OG1	2:ah:6:PRO:HD3	2.04	0.58
2:ah:205:MET:HE2	2:oS:63:ARG:CD	2.33	0.58
2:aj:86:VAL:HG11	2:aj:102:LEU:CD1	2.33	0.58
1:ao:103:ARG:HD2	2:hY:61:GLY:HA3	1.85	0.58
2:aK:62:GLN:HG3	1:kK:102:GLU:HB3	1.85	0.58
2:bl:117:LEU:HD21	2:bl:211:TYR:HA	1.84	0.58
2:bo:83:THR:OG1	2:bo:203:VAL:O	2.21	0.58
2:bA:274:ALA:HB1	2:bA:297:VAL:HG21	1.85	0.58
1:bX:100:LYS:N	2:dw:197:LYS:CE	2.60	0.58
2:bZ:20:PHE:N	2:iJ:171:TYR:OH	2.36	0.58
2:bZ:63:ARG:HE	2:dr:205:MET:CE	2.15	0.58
1:cL:62:THR:HG21	1:cL:101:VAL:HG23	1.84	0.58
1:cZ:62:THR:HG21	1:cZ:101:VAL:HG23	1.84	0.58
2:du:107:GLY:CA	2:du:184:TYR:CE1	2.85	0.58
2:dv:83:THR:OG1	2:dv:203:VAL:O	2.21	0.58
2:dF:121:LEU:O	2:dF:214:ARG:NH2	2.37	0.58
2:dU:278:VAL:HG11	2:dU:295:VAL:O	2.03	0.58
1:dZ:100:LYS:HD2	2:nN:197:LYS:HZ2	1.67	0.58
2:ei:278:VAL:HG11	2:ei:295:VAL:O	2.03	0.58
2:ev:205:MET:HE2	2:gD:63:ARG:CD	2.34	0.58
1:eG:102:GLU:CD	1:gK:99:LEU:HD21	2.27	0.58
2:eJ:63:ARG:HD2	2:gp:205:MET:HE2	1.85	0.58
2:eL:62:GLN:HB2	1:ib:103:ARG:O	2.03	0.58
1:fh:62:THR:HG21	1:fh:101:VAL:HG23	1.84	0.58
2:ga:179:LEU:HD22	2:ga:209:TYR:HD2	1.68	0.58
2:ge:107:GLY:CA	2:ge:184:TYR:CE1	2.85	0.58
1:gZ:62:THR:HG21	1:gZ:101:VAL:HG23	1.84	0.58
2:gR:121:LEU:O	2:gR:214:ARG:NH2	2.37	0.58
2:gW:53:PHE:O	2:gW:255:ARG:NH2	2.36	0.58
1:gY:63:VAL:HG22	1:gY:74:ASP:HB3	1.86	0.58
2:hF:61:GLY:HA2	1:IM:103:ARG:HG2	1.84	0.58
2:hF:205:MET:HE2	2:kC:63:ARG:CD	2.33	0.58
2:hs:104:GLN:CD	5:qB:178:PRO:HB2	2.29	0.58
2:hv:107:GLY:HA2	2:hv:184:TYR:HE1	1.66	0.58
2:hX:61:GLY:HA3	1:kJ:103:ARG:HD2	1.85	0.58
2:hH:274:ALA:HB1	2:hH:297:VAL:HG21	1.85	0.58
1:ia:102:GLU:OE1	2:ii:197:LYS:NZ	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iD:102:GLU:HB3	2:pw:62:GLN:HG3	1.84	0.58
2:iK:278:VAL:HG11	2:iK:295:VAL:O	2.03	0.58
2:iN:83:THR:OG1	2:iN:203:VAL:O	2.21	0.58
2:iO:53:PHE:O	2:iO:255:ARG:NH2	2.35	0.58
1:iQ:103:ARG:HD2	2:kt:61:GLY:HA3	1.85	0.58
2:iW:179:LEU:HD22	2:iW:209:TYR:HD2	1.68	0.58
2:iY:278:VAL:HG11	2:iY:295:VAL:O	2.03	0.58
1:jg:91:GLU:HA	2:lr:4:ILE:HD11	1.84	0.58
2:jm:278:VAL:HG11	2:jm:295:VAL:O	2.03	0.58
2:jN:63:ARG:HD2	2:pI:205:MET:HE2	1.85	0.58
2:jO:117:LEU:HD21	2:jO:211:TYR:HA	1.84	0.58
1:jV:102:GLU:HB3	2:na:62:GLN:HG3	1.84	0.58
2:kb:63:ARG:CD	2:ls:205:MET:HE2	2.33	0.58
2:kc:278:VAL:HG11	2:kc:295:VAL:O	2.03	0.58
2:kr:107:GLY:CA	2:kr:184:TYR:CE1	2.86	0.58
2:kC:205:MET:HE2	2:kQ:63:ARG:CD	2.33	0.58
2:kF:5:THR:HG23	2:kF:5:THR:O	2.03	0.58
2:li:83:THR:OG1	2:li:203:VAL:O	2.21	0.58
1:lC:62:THR:HG21	1:lC:101:VAL:HG23	1.84	0.58
2:lU:134:GLN:OE1	2:lU:134:GLN:N	2.30	0.58
2:nl:2:ALA:N	2:oG:85:GLY:O	2.35	0.58
2:nm:121:LEU:O	2:nm:214:ARG:NH2	2.37	0.58
2:nR:107:GLY:HA2	2:nR:184:TYR:HE1	1.66	0.58
1:nV:63:VAL:HG22	1:nV:74:ASP:HB3	1.86	0.58
1:ok:103:ARG:O	2:oU:62:GLN:HB2	2.03	0.58
2:ot:107:GLY:CA	2:ot:184:TYR:CE1	2.86	0.58
2:oX:86:VAL:O	2:oX:202:GLN:N	2.37	0.58
2:pi:86:VAL:HG11	2:pi:102:LEU:CD1	2.33	0.58
1:pm:59:VAL:HG13	1:pm:77:GLY:HA3	1.86	0.58
3:qh:66:GLN:HA	4:qj:8:TYR:O	2.04	0.58
4:qj:116:PHE:CZ	4:qk:202:ILE:HD13	2.36	0.58
6:qu:48:ILE:HG21	6:qu:67:LEU:CD1	2.31	0.58
6:qw:65:THR:CG2	6:qy:46:SER:OG	2.52	0.58
6:qy:65:THR:CG2	6:qA:46:SER:OG	2.52	0.58
6:qI:65:THR:CG2	6:qK:46:SER:OG	2.52	0.58
2:ah:61:GLY:HA2	1:oi:103:ARG:HG2	1.84	0.58
2:az:183:ILE:HG12	5:qH:178:PRO:C	2.28	0.58
1:bc:100:LYS:CD	1:bi:100:LYS:HZ1	2.16	0.58
2:bk:205:MET:HE2	2:dr:63:ARG:CD	2.34	0.58
2:by:63:ARG:HD2	2:dd:205:MET:HE2	1.85	0.58
2:bA:86:VAL:HG11	2:bA:102:LEU:CD1	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bQ:92:GLU:O	5:qp:44:LYS:HG2	2.04	0.58
2:bQ:97:GLY:N	5:qp:51:GLU:OE2	2.36	0.58
1:bS:63:VAL:HG22	1:bS:74:ASP:HB3	1.86	0.58
2:bY:179:LEU:HD22	2:bY:209:TYR:HD2	1.68	0.58
2:bY:219:VAL:HG23	2:bY:259:ILE:HD12	1.85	0.58
2:ce:86:VAL:O	2:ce:202:GLN:N	2.37	0.58
2:cs:86:VAL:O	2:cs:202:GLN:N	2.37	0.58
1:ct:103:ARG:HG2	2:pu:61:GLY:HA2	1.84	0.58
2:cF:83:THR:OG1	2:cF:203:VAL:O	2.21	0.58
1:ea:102:GLU:OE1	2:ei:197:LYS:NZ	2.29	0.58
1:ep:60:ARG:NH1	1:pa:99:LEU:CD1	2.25	0.58
2:eu:179:LEU:HD22	2:eu:209:TYR:HD2	1.68	0.58
2:ew:278:VAL:HG11	2:ew:295:VAL:O	2.03	0.58
2:eX:121:LEU:O	2:eX:214:ARG:NH2	2.37	0.58
2:fp:83:THR:OG1	2:fp:203:VAL:O	2.21	0.58
2:fC:107:GLY:HA2	2:fC:184:TYR:HE1	1.66	0.58
2:fD:86:VAL:HG11	2:fD:102:LEU:HD11	1.85	0.58
2:fM:2:ALA:N	2:lW:85:GLY:O	2.35	0.58
1:gj:102:GLU:HB3	2:gT:62:GLN:HG3	1.84	0.58
2:gp:121:LEU:O	2:gp:214:ARG:NH2	2.37	0.58
2:gt:233:GLU:O	2:gt:237:VAL:HG22	2.02	0.58
1:gw:102:GLU:OE1	2:gE:197:LYS:NZ	2.30	0.58
2:gG:219:VAL:HG23	2:gG:259:ILE:HD12	1.86	0.58
2:gR:20:PHE:N	2:lU:171:TYR:OH	2.36	0.58
2:gR:205:MET:HE2	2:lU:63:ARG:HD2	1.85	0.58
2:hh:274:ALA:HB1	2:hh:297:VAL:HG21	1.85	0.58
2:hs:219:VAL:HG23	2:hs:259:ILE:HD12	1.85	0.58
1:hz:63:VAL:HG22	1:hz:74:ASP:HB3	1.86	0.58
2:hS:179:LEU:HD22	2:hS:209:TYR:HD2	1.68	0.58
2:ig:179:LEU:HD22	2:ig:209:TYR:HD2	1.68	0.58
2:ik:107:GLY:CA	2:ik:184:TYR:CE1	2.85	0.58
2:iv:63:ARG:CD	2:jN:205:MET:HE2	2.34	0.58
2:ix:62:GLN:HB2	1:pQ:103:ARG:O	2.03	0.58
1:iP:59:VAL:HG13	1:iP:77:GLY:HA3	1.86	0.58
1:jd:103:ARG:HG2	2:jl:61:GLY:HA2	1.84	0.58
1:jh:62:THR:HG21	1:jh:101:VAL:HG23	1.84	0.58
2:jO:278:VAL:HG11	2:jO:295:VAL:O	2.03	0.58
2:ka:179:LEU:HD22	2:ka:209:TYR:HD2	1.68	0.58
2:ka:219:VAL:HG23	2:ka:259:ILE:HD12	1.85	0.58
1:ki:63:VAL:HG22	1:ki:74:ASP:HB3	1.86	0.58
2:kB:179:LEU:HD22	2:kB:209:TYR:HD2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kH:197:LYS:CE	1:kO:100:LYS:N	2.60	0.58
2:kQ:5:THR:OG1	2:kQ:6:PRO:HD3	2.04	0.58
2:ld:179:LEU:HD22	2:ld:209:TYR:HD2	1.68	0.58
1:lm:103:ARG:O	2:pY:62:GLN:HB2	2.03	0.58
1:lo:62:THR:HG21	1:lo:101:VAL:HG23	1.84	0.58
2:mi:121:LEU:O	2:mi:214:ARG:NH2	2.37	0.58
2:mn:141:HIS:N	2:mn:148:ASP:O	2.35	0.58
2:mw:20:PHE:N	2:oE:171:TYR:OH	2.36	0.58
2:my:274:ALA:HB1	2:my:297:VAL:HG21	1.86	0.58
2:mZ:278:VAL:HG11	2:mZ:295:VAL:O	2.03	0.58
1:ni:62:THR:HG21	1:ni:101:VAL:HG23	1.84	0.58
2:nA:5:THR:OG1	2:nA:6:PRO:HD3	2.04	0.58
2:nC:86:VAL:HG11	2:nC:102:LEU:CD1	2.33	0.58
2:nQ:62:GLN:HG3	1:pa:102:GLU:HB3	1.84	0.58
2:nS:83:THR:OG1	2:nS:203:VAL:O	2.21	0.58
2:oF:278:VAL:HG11	2:oF:295:VAL:O	2.03	0.58
2:oI:233:GLU:O	2:oI:237:VAL:HG22	2.02	0.58
1:oY:59:VAL:HG13	1:oY:77:GLY:HA3	1.86	0.58
1:oZ:63:VAL:HG22	1:oZ:74:ASP:HB3	1.86	0.58
2:pt:179:LEU:HD22	2:pt:209:TYR:HD2	1.68	0.58
2:pv:117:LEU:HD21	2:pv:211:TYR:HA	1.84	0.58
2:py:83:THR:OG1	2:py:203:VAL:O	2.21	0.58
2:pJ:117:LEU:HD21	2:pJ:211:TYR:HA	1.84	0.58
2:pL:107:GLY:CA	2:pL:184:TYR:CE1	2.85	0.58
2:pW:5:THR:OG1	2:pW:6:PRO:HD3	2.04	0.58
1:qc:59:VAL:HG13	1:qc:77:GLY:HA3	1.86	0.58
3:qi:117:ASP:O	4:qj:6:TYR:CZ	2.57	0.58
6:qq:65:THR:CG2	6:qs:46:SER:OG	2.52	0.58
6:qw:11:GLU:CD	6:qy:39:ARG:HD2	2.29	0.58
6:qw:112:LEU:HD21	6:qy:58:LEU:CD1	0.94	0.58
6:qG:11:GLU:CD	6:qI:39:ARG:HD2	2.29	0.58
6:qG:65:THR:CB	6:qI:46:SER:OG	2.51	0.58
6:qI:109:SER:HB3	6:qK:53:HIS:HB3	1.84	0.58
5:qJ:255:VAL:CG1	5:qL:263:ALA:HB1	2.31	0.58
2:am:61:GLY:HA3	1:mD:103:ARG:HD2	1.85	0.58
1:ao:63:VAL:HG22	1:ao:74:ASP:HB3	1.86	0.58
2:az:141:HIS:N	2:az:148:ASP:O	2.35	0.58
2:aJ:278:VAL:HG11	2:aJ:295:VAL:O	2.03	0.58
1:aT:102:GLU:CD	1:pn:99:LEU:HD21	2.27	0.58
2:aV:179:LEU:HD22	2:aV:209:TYR:HD2	1.68	0.58
2:aV:197:LYS:HZ2	1:iP:100:LYS:HD2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ba:83:THR:OG1	2:ba:203:VAL:O	2.21	0.58
1:be:103:ARG:O	2:kq:62:GLN:HB2	2.03	0.58
2:bm:62:GLN:HB2	1:iR:103:ARG:O	2.03	0.58
2:bn:107:GLY:CA	2:bn:184:TYR:CE1	2.85	0.58
2:bp:141:HIS:N	2:bp:148:ASP:O	2.35	0.58
1:bq:59:VAL:HG13	1:bq:77:GLY:HA3	1.86	0.58
2:bC:83:THR:OG1	2:bC:203:VAL:O	2.21	0.58
2:bN:62:GLN:HB2	1:gL:103:ARG:O	2.03	0.58
2:bQ:61:GLY:HA3	1:gi:103:ARG:HD2	1.85	0.58
1:bT:103:ARG:O	2:eZ:62:GLN:HB2	2.03	0.58
2:bZ:171:TYR:OH	2:dr:20:PHE:N	2.36	0.58
1:cf:59:VAL:HG13	1:cf:77:GLY:HA3	1.86	0.58
2:cn:5:THR:OG1	2:cn:6:PRO:HD3	2.04	0.58
2:cA:179:LEU:HD22	2:cA:209:TYR:CD2	2.39	0.58
2:cB:20:PHE:N	2:cP:171:TYR:OH	2.36	0.58
2:cB:63:ARG:HD2	2:pg:205:MET:HE2	1.85	0.58
2:cC:117:LEU:HD21	2:cC:211:TYR:HA	1.84	0.58
2:cR:86:VAL:HG11	2:cR:102:LEU:CD1	2.33	0.58
2:cS:107:GLY:HA2	2:cS:184:TYR:HE1	1.66	0.58
2:cS:219:VAL:HG23	2:cS:259:ILE:HD12	1.86	0.58
2:cT:83:THR:OG1	2:cT:203:VAL:O	2.21	0.58
1:cX:99:LEU:CD2	1:gx:102:GLU:HB2	2.33	0.58
2:dH:274:ALA:HB1	2:dH:297:VAL:HG21	1.85	0.58
2:dT:63:ARG:HD2	2:oS:205:MET:HE2	1.84	0.58
2:dT:134:GLN:OE1	2:dT:134:GLN:N	2.30	0.58
2:dX:83:THR:OG1	2:dX:203:VAL:O	2.21	0.58
1:ea:103:ARG:HD2	2:fe:61:GLY:HA3	1.85	0.58
2:eh:205:MET:HE2	2:ev:63:ARG:CD	2.34	0.58
2:ek:5:THR:O	2:ek:5:THR:HG23	2.03	0.58
1:eo:63:VAL:HG22	1:eo:74:ASP:HB3	1.86	0.58
1:eo:99:LEU:HD21	1:nZ:102:GLU:CD	2.27	0.58
1:eo:103:ARG:HD2	2:nT:61:GLY:HA3	1.85	0.58
2:ex:86:VAL:HG11	2:ex:102:LEU:CD1	2.33	0.58
2:eK:278:VAL:HG11	2:eK:295:VAL:O	2.03	0.58
1:eT:62:THR:HG21	1:eT:101:VAL:HG23	1.84	0.58
2:eX:5:THR:OG1	2:eX:6:PRO:HD3	2.04	0.58
2:fl:20:PHE:N	2:nA:171:TYR:OH	2.36	0.58
2:fn:274:ALA:HB1	2:fn:297:VAL:HG21	1.85	0.58
2:fq:61:GLY:HA3	1:ia:103:ARG:HD2	1.85	0.58
2:fS:197:LYS:CE	1:fZ:100:LYS:N	2.60	0.58
1:fU:103:ARG:HD2	2:mn:61:GLY:HA3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gc:278:VAL:HG11	2:gc:295:VAL:O	2.03	0.58
2:hg:278:VAL:HG11	2:hg:295:VAL:O	2.03	0.58
1:hm:102:GLU:OE1	2:ht:197:LYS:NZ	2.30	0.58
1:hZ:59:VAL:HG13	1:hZ:77:GLY:HA3	1.86	0.58
1:ia:63:VAL:HG22	1:ia:74:ASP:HB3	1.86	0.58
1:in:59:VAL:HG13	1:in:77:GLY:HA3	1.86	0.58
2:iA:141:HIS:N	2:iA:148:ASP:O	2.35	0.58
1:iC:102:GLU:OE1	2:iK:197:LYS:NZ	2.30	0.58
1:iQ:63:VAL:HG22	1:iQ:74:ASP:HB3	1.86	0.58
2:jQ:36:THR:O	2:jQ:175:THR:OG1	2.18	0.58
2:jD:86:VAL:HG11	2:jD:102:LEU:HD11	1.86	0.58
1:jF:59:VAL:HG13	1:jF:77:GLY:HA3	1.86	0.58
2:jM:219:VAL:HG23	2:jM:259:ILE:HD12	1.85	0.58
2:kg:86:VAL:O	2:kg:202:GLN:N	2.37	0.58
2:ks:86:VAL:HG11	2:ks:102:LEU:HD11	1.85	0.58
2:kR:278:VAL:HG11	2:kR:295:VAL:O	2.03	0.58
2:lr:219:VAL:HG23	2:lr:259:ILE:HD12	1.85	0.58
2:lG:171:TYR:OH	2:mY:20:PHE:N	2.36	0.58
2:mj:117:LEU:HD21	2:mj:211:TYR:HA	1.84	0.58
2:mv:179:LEU:HD22	2:mv:209:TYR:HD2	1.68	0.58
2:mz:5:THR:O	2:mz:5:THR:HG23	2.03	0.58
2:mA:86:VAL:HG11	2:mA:102:LEU:HD11	1.85	0.58
2:mK:58:GLU:OE1	2:oQ:78:LYS:NZ	2.27	0.58
2:mL:278:VAL:HG11	2:mL:295:VAL:O	2.03	0.58
2:mN:5:THR:O	2:mN:5:THR:HG23	2.03	0.58
2:nb:107:GLY:CA	2:nb:184:TYR:CE1	2.85	0.58
2:np:5:THR:O	2:np:5:THR:HG23	2.03	0.58
2:nz:219:VAL:HG23	2:nz:259:ILE:HD12	1.85	0.58
2:nB:278:VAL:HG11	2:nB:295:VAL:O	2.03	0.58
2:nF:86:VAL:O	2:nF:202:GLN:N	2.37	0.58
2:nQ:86:VAL:HG11	2:nQ:102:LEU:CD1	2.33	0.58
2:nR:107:GLY:CA	2:nR:184:TYR:CE1	2.85	0.58
2:ob:179:LEU:HD22	2:ob:209:TYR:CD2	2.39	0.58
2:or:278:VAL:HG11	2:or:295:VAL:O	2.03	0.58
2:pf:179:LEU:HD22	2:pf:209:TYR:HD2	1.68	0.58
2:pj:107:GLY:CA	2:pj:184:TYR:CE1	2.86	0.58
2:pt:179:LEU:HD22	2:pt:209:TYR:CD2	2.39	0.58
2:pZ:219:VAL:HG23	2:pZ:259:ILE:HD12	1.86	0.58
3:qe:68:ALA:CA	4:qm:8:TYR:CZ	2.87	0.58
6:qq:46:SER:OG	6:qM:65:THR:CG2	2.52	0.58
6:qK:65:THR:CG2	6:qM:46:SER:OG	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ag:219:VAL:HG23	2:ag:259:ILE:HD12	1.85	0.58
2:ah:205:MET:HE2	2:oS:63:ARG:HD2	1.84	0.58
2:au:197:LYS:HZ2	1:bR:100:LYS:HD2	1.69	0.58
2:aI:121:LEU:O	2:aI:214:ARG:NH2	2.37	0.58
2:aV:179:LEU:HD22	2:aV:209:TYR:CD2	2.39	0.58
2:aY:62:GLN:HB2	1:ch:103:ARG:O	2.03	0.58
2:aZ:219:VAL:HG23	2:aZ:259:ILE:HD12	1.86	0.58
1:bd:103:ARG:HD2	2:jc:61:GLY:HA3	1.85	0.58
1:be:102:GLU:HB3	2:kq:62:GLN:HG3	1.85	0.58
2:bo:171:TYR:OH	2:bo:175:THR:OG1	2.12	0.58
1:br:99:LEU:HD21	1:dC:102:GLU:CD	2.27	0.58
2:bD:62:GLN:NE2	1:bS:104:CYS:HA	2.19	0.58
1:cl:100:LYS:N	2:iA:197:LYS:CE	2.60	0.58
2:cm:179:LEU:HD22	2:cm:209:TYR:CD2	2.39	0.58
2:cn:63:ARG:CD	2:iv:205:MET:HE2	2.33	0.58
2:cO:179:LEU:HD22	2:cO:209:TYR:CD2	2.39	0.58
2:cP:121:LEU:O	2:cP:214:ARG:NH2	2.37	0.58
2:dd:106:MET:HG3	2:dd:184:TYR:CD1	2.36	0.58
2:di:86:VAL:O	2:di:202:GLN:N	2.37	0.58
1:dk:63:VAL:HG22	1:dk:74:ASP:HB3	1.86	0.58
1:dM:63:VAL:HG22	1:dM:74:ASP:HB3	1.86	0.58
2:dV:86:VAL:HG11	2:dV:102:LEU:CD1	2.33	0.58
2:dV:274:ALA:HB1	2:dV:297:VAL:HG21	1.85	0.58
2:eh:61:GLY:HA2	1:nG:103:ARG:HG2	1.84	0.58
1:ep:102:GLU:OE1	1:pa:99:LEU:CA	2.28	0.58
2:ey:107:GLY:HA2	2:ey:184:TYR:HE1	1.66	0.58
2:eN:86:VAL:HG11	2:eN:102:LEU:HD11	1.86	0.58
2:eW:179:LEU:HD22	2:eW:209:TYR:CD2	2.39	0.58
2:fc:86:VAL:O	2:fc:202:GLN:N	2.37	0.58
1:fd:59:VAL:HG13	1:fd:77:GLY:HA3	1.86	0.58
2:fp:86:VAL:HG11	2:fp:102:LEU:HD11	1.86	0.58
2:fE:141:HIS:N	2:fE:148:ASP:O	2.35	0.58
2:ga:187:ARG:HD2	2:ga:203:VAL:HG22	1.86	0.58
1:gh:59:VAL:HG13	1:gh:77:GLY:HA3	1.86	0.58
2:gu:61:GLY:HA3	1:gK:103:ARG:HD2	1.85	0.58
2:gR:63:ARG:CD	2:ih:205:MET:HE2	2.33	0.58
2:he:219:VAL:HG23	2:he:259:ILE:HD12	1.85	0.58
2:hj:86:VAL:HG11	2:hj:102:LEU:HD11	1.86	0.58
1:hl:59:VAL:HG13	1:hl:77:GLY:HA3	1.86	0.58
2:hF:179:LEU:HD22	2:hF:209:TYR:CD2	2.39	0.58
2:hH:62:GLN:HB2	1:kw:103:ARG:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ih:5:THR:OG1	2:ih:6:PRO:HD3	2.04	0.58
2:iu:2:ALA:N	2:jP:85:GLY:O	2.35	0.58
2:iu:219:VAL:HG23	2:iu:259:ILE:HD12	1.85	0.58
2:iA:62:GLN:NE2	1:ll:104:CYS:HA	2.19	0.58
2:iX:121:LEU:O	2:iX:214:ARG:NH2	2.37	0.58
2:jk:179:LEU:HD22	2:jk:209:TYR:CD2	2.39	0.58
2:jl:121:LEU:O	2:jl:214:ARG:NH2	2.37	0.58
2:jl:205:MET:HE2	2:ls:63:ARG:CD	2.34	0.58
1:jw:99:LEU:HA	2:lg:197:LYS:CD	2.13	0.58
2:jC:219:VAL:HG23	2:jC:259:ILE:HD12	1.86	0.58
1:jF:103:ARG:HG2	2:pW:61:GLY:HA2	1.84	0.58
2:jP:274:ALA:HB1	2:jP:297:VAL:HG21	1.85	0.58
1:jY:102:GLU:CD	1:pP:99:LEU:HD21	2.27	0.58
2:kb:171:TYR:OH	2:ls:20:PHE:N	2.36	0.58
2:kg:62:GLN:NE2	1:mR:104:CYS:HA	2.19	0.58
2:kq:274:ALA:HB1	2:kq:297:VAL:HG21	1.85	0.58
2:kS:86:VAL:HG11	2:kS:102:LEU:CD1	2.33	0.58
2:le:121:LEU:O	2:le:214:ARG:NH2	2.37	0.58
2:lj:61:GLY:HA3	1:lz:103:ARG:HD2	1.85	0.58
2:lt:278:VAL:HG11	2:lt:295:VAL:O	2.03	0.58
2:lJ:219:VAL:HG23	2:lJ:259:ILE:HD12	1.86	0.58
2:mh:219:VAL:HG23	2:mh:259:ILE:HD12	1.85	0.58
2:mi:5:THR:OG1	2:mi:6:PRO:HD3	2.04	0.58
2:ml:219:VAL:HG23	2:ml:259:ILE:HD12	1.86	0.58
2:mn:53:PHE:O	2:mn:255:ARG:NH2	2.35	0.58
2:mK:63:ARG:HD2	2:oq:205:MET:HE2	1.84	0.58
2:mK:106:MET:HG3	2:mK:184:TYR:CD1	2.36	0.58
2:mX:219:VAL:HG23	2:mX:259:ILE:HD12	1.85	0.58
2:nC:274:ALA:HB1	2:nC:297:VAL:HG21	1.85	0.58
2:nD:107:GLY:HA2	2:nD:184:TYR:HE1	1.66	0.58
2:nD:107:GLY:CA	2:nD:184:TYR:CE1	2.85	0.58
2:oc:121:LEU:O	2:oc:214:ARG:NH2	2.37	0.58
2:ou:83:THR:OG1	2:ou:203:VAL:O	2.21	0.58
1:oK:59:VAL:HG13	1:oK:77:GLY:HA3	1.86	0.58
1:oL:63:VAL:HG22	1:oL:74:ASP:HB3	1.86	0.58
2:pM:83:THR:OG1	2:pM:203:VAL:O	2.21	0.58
1:pO:59:VAL:HG13	1:pO:77:GLY:HA3	1.86	0.58
2:pW:121:LEU:O	2:pW:214:ARG:NH2	2.37	0.58
3:qg:9:PHE:O	3:qh:95:ARG:NH2	2.37	0.58
4:qj:202:ILE:HD13	4:qo:116:PHE:CZ	2.36	0.58
4:qn:116:PHE:CZ	4:qo:202:ILE:HD13	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:qs:112:LEU:HD21	6:qu:58:LEU:CD1	0.94	0.58
6:qA:11:GLU:CD	6:qC:39:ARG:HD2	2.29	0.58
6:qC:11:GLU:CD	6:qE:39:ARG:HD2	2.29	0.58
6:qE:112:LEU:HD21	6:qG:58:LEU:CD1	0.94	0.58
6:qK:11:GLU:CD	6:qM:39:ARG:HD2	2.29	0.58
2:ah:63:ARG:CD	2:oc:205:MET:HE2	2.34	0.58
2:au:170:TRP:C	5:qJ:178:PRO:HD3	2.29	0.58
2:au:219:VAL:HG23	2:au:259:ILE:HD12	1.85	0.58
2:aw:62:GLN:HB2	1:hN:103:ARG:O	2.03	0.58
2:ax:5:THR:HG23	2:ax:5:THR:O	2.03	0.58
2:az:62:GLN:NE2	1:dk:104:CYS:HA	2.19	0.58
1:aC:102:GLU:HB3	2:hu:62:GLN:HG3	1.84	0.58
2:aI:63:ARG:HE	2:kb:205:MET:CE	2.15	0.58
2:aL:5:THR:HG23	2:aL:5:THR:O	2.03	0.58
1:aO:59:VAL:HG13	1:aO:77:GLY:HA3	1.86	0.58
1:aP:99:LEU:HD21	1:pr:102:GLU:CD	2.27	0.58
2:aY:86:VAL:HG11	2:aY:102:LEU:CD1	2.33	0.58
2:bb:36:THR:O	2:bb:175:THR:OG1	2.18	0.58
2:bb:62:GLN:NE2	1:je:104:CYS:HA	2.19	0.58
2:bm:86:VAL:HG11	2:bm:102:LEU:CD1	2.33	0.58
1:bs:103:ARG:O	2:cb:62:GLN:HB2	2.03	0.58
2:by:20:PHE:N	2:hT:171:TYR:OH	2.36	0.58
2:by:121:LEU:O	2:by:214:ARG:NH2	2.37	0.58
1:bE:59:VAL:HG13	1:bE:77:GLY:HA3	1.86	0.58
2:bP:86:VAL:HG11	2:bP:102:LEU:HD11	1.86	0.58
1:bU:99:LEU:C	2:eY:197:LYS:HZ2	2.12	0.58
2:bZ:63:ARG:HD2	2:dr:205:MET:HE2	1.85	0.58
2:bZ:121:LEU:O	2:bZ:214:ARG:NH2	2.37	0.58
2:cn:121:LEU:O	2:cn:214:ARG:NH2	2.37	0.58
2:cp:62:GLN:HB2	1:jf:103:ARG:O	2.03	0.58
2:cs:53:PHE:O	2:cs:255:ARG:NH2	2.36	0.58
1:cu:103:ARG:HD2	2:dY:61:GLY:HA3	1.85	0.58
1:cI:103:ARG:HD2	2:pz:61:GLY:HA3	1.85	0.58
1:cK:105:THR:CG2	2:eY:60:ILE:CG2	2.62	0.58
1:cV:59:VAL:HG13	1:cV:77:GLY:HA3	1.86	0.58
1:db:100:LYS:HZ1	1:eP:100:LYS:CD	2.17	0.58
2:dF:63:ARG:CD	2:eX:205:MET:HE2	2.34	0.58
2:dK:62:GLN:NE2	1:gw:104:CYS:HA	2.19	0.58
2:dS:179:LEU:HD22	2:dS:209:TYR:CD2	2.39	0.58
2:eg:179:LEU:HD22	2:eg:209:TYR:HD2	1.68	0.58
2:eh:63:ARG:CD	2:nA:205:MET:HE2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eC:102:GLU:OE1	2:eK:197:LYS:NZ	2.30	0.58
1:eE:99:LEU:CA	2:fm:197:LYS:HZ1	2.15	0.58
2:eJ:5:THR:OG1	2:eJ:6:PRO:HD3	2.04	0.58
2:eJ:121:LEU:O	2:eJ:214:ARG:NH2	2.37	0.58
2:eL:274:ALA:HB1	2:eL:297:VAL:HG21	1.85	0.58
2:eX:134:GLN:OE1	2:eX:134:GLN:N	2.30	0.58
2:fl:171:TYR:OH	2:gD:20:PHE:N	2.36	0.58
2:fo:219:VAL:HG23	2:fo:259:ILE:HD12	1.86	0.58
1:fs:103:ARG:HD2	2:oh:61:GLY:HA3	1.85	0.58
2:fC:219:VAL:HG23	2:fC:259:ILE:HD12	1.86	0.58
2:fN:63:ARG:HE	2:IU:205:MET:CE	2.15	0.58
2:gU:5:THR:O	2:gU:5:THR:HG23	2.03	0.58
2:hf:171:TYR:OH	2:IG:20:PHE:N	2.36	0.58
2:hh:86:VAL:HG11	2:hh:102:LEU:CD1	2.33	0.58
2:hK:36:THR:O	2:hK:175:THR:OG1	2.18	0.58
2:hX:83:THR:OG1	2:hX:203:VAL:O	2.21	0.58
2:iz:83:THR:OG1	2:iz:203:VAL:O	2.21	0.58
2:iA:86:VAL:O	2:iA:202:GLN:N	2.37	0.58
2:iX:205:MET:HE2	2:jl:63:ARG:CD	2.33	0.58
2:iZ:274:ALA:HB1	2:iZ:297:VAL:HG21	1.85	0.58
2:jc:141:HIS:N	2:jc:148:ASP:O	2.35	0.58
2:jz:63:ARG:HD2	2:le:205:MET:HE2	1.84	0.58
2:jS:53:PHE:O	2:jS:255:ARG:NH2	2.36	0.58
1:jU:63:VAL:HG22	1:jU:74:ASP:HB3	1.86	0.58
2:ke:219:VAL:HG23	2:ke:259:ILE:HD12	1.86	0.58
2:kr:219:VAL:HG23	2:kr:259:ILE:HD12	1.86	0.58
1:kJ:102:GLU:OE1	2:kR:197:LYS:NZ	2.30	0.58
2:kT:219:VAL:HG23	2:kT:259:ILE:HD12	1.86	0.58
2:ld:187:ARG:HD2	2:ld:203:VAL:HG22	1.86	0.58
2:lj:62:GLN:NE2	1:lz:104:CYS:HA	2.19	0.58
1:ll:63:VAL:HG22	1:ll:74:ASP:HB3	1.86	0.58
2:lr:179:LEU:HD22	2:lr:209:TYR:CD2	2.39	0.58
2:lu:274:ALA:HB1	2:lu:297:VAL:HG21	1.85	0.58
2:IT:187:ARG:HD2	2:IT:203:VAL:HG22	1.86	0.58
1:mb:104:CYS:HA	2:nF:62:GLN:NE2	2.19	0.58
1:mE:102:GLU:HB3	2:no:62:GLN:HG3	1.84	0.58
2:mJ:179:LEU:HD22	2:mJ:209:TYR:HD2	1.68	0.58
2:mK:5:THR:OG1	2:mK:6:PRO:HD3	2.04	0.58
2:mP:61:GLY:HA3	1:nf:103:ARG:HD2	1.85	0.58
2:nb:219:VAL:HG23	2:nb:259:ILE:HD12	1.86	0.58
2:nl:219:VAL:HG23	2:nl:259:ILE:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:no:274:ALA:HB1	2:no:297:VAL:HG21	1.85	0.58
1:nH:63:VAL:HG22	1:nH:74:ASP:HB3	1.86	0.58
2:nN:187:ARG:HD2	2:nN:203:VAL:HG22	1.86	0.58
2:nO:205:MET:HE2	2:oc:63:ARG:CD	2.34	0.58
2:of:107:GLY:CA	2:of:184:TYR:CE1	2.85	0.58
2:op:179:LEU:HD22	2:op:209:TYR:CD2	2.39	0.58
2:oq:61:GLY:HA2	1:qc:103:ARG:HG2	1.84	0.58
2:ou:86:VAL:HG11	2:ou:102:LEU:HD11	1.86	0.58
2:ov:62:GLN:NE2	1:ol:104:CYS:HA	2.19	0.58
2:oH:107:GLY:CA	2:oH:184:TYR:CE1	2.85	0.58
1:pn:102:GLU:OE1	2:pv:197:LYS:NZ	2.30	0.58
2:pH:179:LEU:HD22	2:pH:209:TYR:HD2	1.68	0.58
1:pP:63:VAL:HG22	1:pP:74:ASP:HB3	1.86	0.58
3:qd:65:GLY:CA	4:qn:10:GLN:HE21	2.13	0.58
6:qs:109:SER:HB3	6:qu:53:HIS:HB3	1.84	0.58
6:qu:65:THR:CG2	6:qw:46:SER:OG	2.52	0.58
6:qK:112:LEU:CB	6:qM:58:LEU:HD13	2.34	0.58
1:af:100:LYS:N	2:oh:197:LYS:CE	2.60	0.57
2:ah:121:LEU:O	2:ah:214:ARG:NH2	2.37	0.57
2:ah:171:TYR:OH	2:oc:20:PHE:N	2.36	0.57
2:am:62:GLN:NE2	1:mD:104:CYS:HA	2.19	0.57
2:au:103:MET:HE2	5:qL:177:SER:HB2	1.86	0.57
2:au:187:ARG:HD2	2:au:203:VAL:HG22	1.86	0.57
2:av:278:VAL:HG11	2:av:295:VAL:O	2.03	0.57
1:aA:59:VAL:HG13	1:aA:77:GLY:HA3	1.86	0.57
2:aL:107:GLY:HA2	2:aL:184:TYR:HE1	1.66	0.57
2:aL:107:GLY:CA	2:aL:184:TYR:CE1	2.86	0.57
2:aW:63:ARG:CD	2:iJ:205:MET:HE2	2.34	0.57
2:bj:179:LEU:HD22	2:bj:209:TYR:CD2	2.39	0.57
2:by:205:MET:HE2	2:hT:63:ARG:CD	2.34	0.57
2:bA:144:TYR:HB3	2:bA:145:PRO:HD2	1.87	0.57
2:bN:186:GLU:O	2:gq:191:SER:OG	2.08	0.57
2:bQ:62:GLN:NE2	1:gi:104:CYS:HA	2.19	0.57
2:cc:5:THR:HG23	2:cc:5:THR:O	2.03	0.57
2:cc:107:GLY:HA2	2:cc:184:TYR:HE1	1.66	0.57
2:ce:197:LYS:CE	1:iH:100:LYS:N	2.60	0.57
1:cu:63:VAL:HG22	1:cu:74:ASP:HB3	1.86	0.57
2:cD:274:ALA:HB1	2:cD:297:VAL:HG21	1.85	0.57
1:cH:100:LYS:HD2	2:cO:197:LYS:HZ2	1.69	0.57
1:cH:103:ARG:HG2	2:cP:61:GLY:HA2	1.84	0.57
2:cP:205:MET:HE2	2:eX:63:ARG:HD2	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cR:62:GLN:HB2	1:po:103:ARG:O	2.03	0.57
2:cR:274:ALA:HB1	2:cR:297:VAL:HG21	1.85	0.57
2:cU:62:GLN:NE2	1:iC:104:CYS:HA	2.19	0.57
2:dd:5:THR:OG1	2:dd:6:PRO:HD3	2.04	0.57
2:dg:219:VAL:HG23	2:dg:259:ILE:HD12	1.86	0.57
2:dh:86:VAL:HG11	2:dh:102:LEU:HD11	1.86	0.57
2:di:61:GLY:HA3	1:dy:103:ARG:HD2	1.85	0.57
1:dl:103:ARG:O	2:hV:62:GLN:HB2	2.03	0.57
2:dt:274:ALA:HB1	2:dt:297:VAL:HG21	1.85	0.57
2:dK:61:GLY:HA3	1:gw:103:ARG:HD2	1.85	0.57
2:dV:62:GLN:HB2	1:pC:103:ARG:O	2.03	0.57
2:eh:5:THR:OG1	2:eh:6:PRO:HD3	2.04	0.57
1:en:103:ARG:HG2	2:ev:61:GLY:HA2	1.84	0.57
2:ev:5:THR:OG1	2:ev:6:PRO:HD3	2.04	0.57
2:ev:121:LEU:O	2:ev:214:ARG:NH2	2.37	0.57
2:ev:205:MET:CE	2:gD:63:ARG:HE	2.15	0.57
1:eD:99:LEU:CD2	1:ib:102:GLU:HB2	2.33	0.57
2:eM:107:GLY:HA2	2:eM:184:TYR:HE1	1.66	0.57
2:fa:5:THR:O	2:fa:5:THR:HG23	2.03	0.57
2:fb:83:THR:OG1	2:fb:203:VAL:O	2.21	0.57
2:fk:179:LEU:HD22	2:fk:209:TYR:HD2	1.68	0.57
2:fq:36:THR:O	2:fq:175:THR:OG1	2.18	0.57
1:fr:103:ARG:HG2	2:nA:61:GLY:HA2	1.84	0.57
2:fy:187:ARG:HD2	2:fy:203:VAL:HG22	1.86	0.57
2:fz:63:ARG:CD	2:nm:205:MET:HE2	2.33	0.57
2:fC:5:THR:HG23	2:fC:5:THR:O	2.03	0.57
2:fM:187:ARG:HD2	2:fM:203:VAL:HG22	1.86	0.57
2:fN:5:THR:OG1	2:fN:6:PRO:HD3	2.04	0.57
1:fV:103:ARG:O	2:nC:62:GLN:HB2	2.03	0.57
2:gb:20:PHE:N	2:ih:171:TYR:OH	2.36	0.57
2:gg:53:PHE:O	2:gg:255:ARG:NH2	2.35	0.57
2:gE:278:VAL:HG11	2:gE:295:VAL:O	2.03	0.57
2:gR:5:THR:OG1	2:gR:6:PRO:HD3	2.04	0.57
2:gR:205:MET:HE2	2:IU:63:ARG:CD	2.34	0.57
2:gT:144:TYR:HB3	2:gT:145:PRO:HD2	1.87	0.57
1:hz:103:ARG:HD2	2:kH:61:GLY:HA3	1.85	0.57
2:hF:32:LEU:CD1	5:qv:179:ALA:N	2.65	0.57
2:hW:107:GLY:CA	2:hW:184:TYR:CE1	2.86	0.57
2:ig:179:LEU:HD22	2:ig:209:TYR:CD2	2.39	0.57
2:iv:63:ARG:HD2	2:jN:205:MET:HE2	1.84	0.57
1:iB:59:VAL:HG13	1:iB:77:GLY:HA3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iC:63:VAL:HG22	1:iC:74:ASP:HB3	1.86	0.57
2:iX:5:THR:OG1	2:iX:6:PRO:HD3	2.04	0.57
2:iZ:62:GLN:HB2	1:kj:103:ARG:O	2.03	0.57
1:jV:102:GLU:HB2	1:mS:99:LEU:CD2	2.33	0.57
2:kb:121:LEU:O	2:kb:214:ARG:NH2	2.37	0.57
2:kg:61:GLY:HA3	1:mR:103:ARG:HD2	1.85	0.57
2:ko:179:LEU:HD22	2:ko:209:TYR:CD2	2.39	0.57
2:kt:141:HIS:N	2:kt:148:ASP:O	2.35	0.57
2:kE:274:ALA:HB1	2:kE:297:VAL:HG21	1.85	0.57
1:kI:103:ARG:HG2	2:kQ:61:GLY:HA2	1.84	0.57
2:lr:179:LEU:HD22	2:lr:209:TYR:HD2	1.68	0.57
2:lx:36:THR:O	2:lx:175:THR:OG1	2.18	0.57
2:lJ:5:THR:HG23	2:lJ:5:THR:O	2.03	0.57
2:lU:121:LEU:O	2:lU:214:ARG:NH2	2.37	0.57
2:mh:179:LEU:HD22	2:mh:209:TYR:CD2	2.39	0.57
2:mO:86:VAL:HG11	2:mO:102:LEU:HD11	1.85	0.57
2:mY:5:THR:OG1	2:mY:6:PRO:HD3	2.04	0.57
2:na:86:VAL:HG11	2:na:102:LEU:CD1	2.33	0.57
2:nl:197:LYS:HZ2	1:oK:100:LYS:HD2	1.69	0.57
2:nD:219:VAL:HG23	2:nD:259:ILE:HD12	1.86	0.57
2:nR:219:VAL:HG23	2:nR:259:ILE:HD12	1.86	0.57
1:oL:102:GLU:OE1	2:oT:197:LYS:NZ	2.29	0.57
2:oU:274:ALA:HB1	2:oU:297:VAL:HG21	1.86	0.57
2:pu:134:GLN:OE1	2:pu:134:GLN:N	2.30	0.57
3:qg:60:ALA:C	4:qk:33:SER:OG	2.47	0.57
3:qh:98:ALA:O	3:qh:102:LEU:N	2.27	0.57
4:qk:63:GLY:HA2	4:ql:54:LYS:HG3	1.83	0.57
6:qE:11:GLU:CD	6:qG:39:ARG:HD2	2.29	0.57
6:qG:65:THR:CG2	6:qI:46:SER:OG	2.52	0.57
1:aa:104:CYS:HA	2:nr:62:GLN:NE2	2.19	0.57
2:ak:5:THR:HG23	2:ak:5:THR:O	2.03	0.57
2:ay:83:THR:OG1	2:ay:203:VAL:O	2.21	0.57
2:ba:86:VAL:HG11	2:ba:102:LEU:HD11	1.86	0.57
2:bj:179:LEU:HD22	2:bj:209:TYR:HD2	1.68	0.57
1:bt:98:LEU:O	1:bt:98:LEU:HD23	2.05	0.57
2:by:5:THR:OG1	2:by:6:PRO:HD3	2.04	0.57
2:bB:107:GLY:HA2	2:bB:184:TYR:HE1	1.66	0.57
2:bD:86:VAL:O	2:bD:202:GLN:N	2.37	0.57
2:bD:239:PHE:HE1	2:bD:294:LEU:HD22	1.69	0.57
1:bF:63:VAL:HG22	1:bF:74:ASP:HB3	1.86	0.57
2:bL:107:GLY:C	5:qr:178:PRO:CG	2.59	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cs:239:PHE:HE1	2:cs:294:LEU:HD22	1.69	0.57
2:cB:205:MET:HE2	2:cP:63:ARG:CD	2.34	0.57
1:cI:63:VAL:HG22	1:cI:74:ASP:HB3	1.86	0.57
1:cI:104:CYS:HA	2:pz:62:GLN:NE2	2.19	0.57
2:cO:187:ARG:HD2	2:cO:203:VAL:HG22	1.87	0.57
2:cU:61:GLY:HA3	1:iC:103:ARG:HD2	1.85	0.57
2:dq:179:LEU:HD22	2:dq:209:TYR:CD2	2.39	0.57
2:dF:5:THR:OG1	2:dF:6:PRO:HD3	2.04	0.57
1:en:59:VAL:HG13	1:en:77:GLY:HA3	1.86	0.57
1:ep:102:GLU:HB3	2:pi:62:GLN:HG3	1.84	0.57
2:eK:117:LEU:HD21	2:eK:211:TYR:HA	1.84	0.57
2:fk:179:LEU:HD22	2:fk:209:TYR:CD2	2.39	0.57
2:fN:78:LYS:NZ	2:gb:58:GLU:OE1	2.27	0.57
2:fO:278:VAL:HG11	2:fO:295:VAL:O	2.03	0.57
2:fS:62:GLN:NE2	1:mp:104:CYS:HA	2.19	0.57
2:ge:5:THR:HG23	2:ge:5:THR:O	2.03	0.57
2:gs:5:THR:HG23	2:gs:5:THR:O	2.03	0.57
2:gC:187:ARG:HD2	2:gC:203:VAL:HG22	1.86	0.57
2:gQ:219:VAL:HG23	2:gQ:259:ILE:HD12	1.85	0.57
2:hF:78:LYS:NZ	2:kC:58:GLU:OE1	2.27	0.57
2:hs:104:GLN:HE22	5:qB:165:PRO:CG	2.16	0.57
1:hA:103:ARG:O	2:lW:62:GLN:HB2	2.03	0.57
2:hJ:83:THR:OG1	2:hJ:203:VAL:O	2.21	0.57
2:iu:179:LEU:HD22	2:iu:209:TYR:CD2	2.39	0.57
2:iv:134:GLN:OE1	2:iv:134:GLN:N	2.30	0.57
2:iv:171:TYR:OH	2:jN:20:PHE:N	2.36	0.57
2:iw:117:LEU:HD21	2:iw:211:TYR:HA	1.84	0.57
1:iD:103:ARG:O	2:pw:62:GLN:HB2	2.03	0.57
2:iJ:121:LEU:O	2:iJ:214:ARG:NH2	2.37	0.57
2:ja:5:THR:O	2:ja:5:THR:HG23	2.03	0.57
2:jo:219:VAL:HG23	2:jo:259:ILE:HD12	1.86	0.57
2:jz:20:PHE:N	2:pW:171:TYR:OH	2.36	0.57
1:jG:104:CYS:HA	2:oX:62:GLN:NE2	2.19	0.57
2:jN:5:THR:OG1	2:jN:6:PRO:HD3	2.04	0.57
2:jS:62:GLN:NE2	1:oj:104:CYS:HA	2.19	0.57
2:kb:5:THR:OG1	2:kb:6:PRO:HD3	2.04	0.57
2:ko:187:ARG:HD2	2:ko:203:VAL:HG22	1.86	0.57
2:kp:278:VAL:HG11	2:kp:295:VAL:O	2.03	0.57
2:kq:86:VAL:HG11	2:kq:102:LEU:CD1	2.33	0.57
2:kB:179:LEU:HD22	2:kB:209:TYR:CD2	2.39	0.57
2:kC:205:MET:HE2	2:kQ:63:ARG:HD2	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kT:5:THR:HG23	2:kT:5:THR:O	2.03	0.57
2:ls:5:THR:OG1	2:ls:6:PRO:HD3	2.04	0.57
2:lw:83:THR:OG1	2:lw:203:VAL:O	2.21	0.57
2:lZ:141:HIS:N	2:lZ:148:ASP:O	2.35	0.57
2:mh:187:ARG:HD2	2:mh:203:VAL:HG22	1.86	0.57
2:mn:239:PHE:HE1	2:mn:294:LEU:HD22	1.69	0.57
2:nd:239:PHE:HE1	2:nd:294:LEU:HD22	1.69	0.57
2:nq:86:VAL:HG11	2:nq:102:LEU:HD11	1.85	0.57
1:nG:59:VAL:HG13	1:nG:77:GLY:HA3	1.86	0.57
2:nS:278:VAL:HG11	2:nS:295:VAL:O	2.05	0.57
1:nU:103:ARG:HG2	2:oc:61:GLY:HA2	1.85	0.57
2:ob:188:MET:HA	2:ob:188:MET:HE3	1.87	0.57
2:os:86:VAL:HG11	2:os:102:LEU:CD1	2.33	0.57
1:ow:59:VAL:HG13	1:ow:77:GLY:HA3	1.86	0.57
2:oD:179:LEU:HD22	2:oD:209:TYR:CD2	2.39	0.57
2:oI:278:VAL:HG11	2:oI:295:VAL:O	2.05	0.57
1:oZ:102:GLU:OE1	2:ph:197:LYS:NZ	2.29	0.57
2:pu:5:THR:OG1	2:pu:6:PRO:HD3	2.04	0.57
2:px:5:THR:HG23	2:px:5:THR:O	2.03	0.57
2:pH:179:LEU:HD22	2:pH:209:TYR:CD2	2.39	0.57
2:pV:187:ARG:HD2	2:pV:203:VAL:HG22	1.86	0.57
2:pV:188:MET:HE3	2:pV:188:MET:HA	1.87	0.57
2:pY:144:TYR:HB3	2:pY:145:PRO:HD2	1.87	0.57
3:qf:63:GLN:OE1	3:qf:64:GLY:N	2.38	0.57
3:qg:63:GLN:OE1	3:qg:64:GLY:N	2.38	0.57
3:qh:84:TYR:CD1	6:qI:20:GLU:CD	2.79	0.57
5:qr:392:LEU:HD12	5:qt:400:TYR:HE1	1.58	0.57
6:qs:65:THR:CG2	6:qu:46:SER:OG	2.52	0.57
6:qw:112:LEU:CG	6:qy:58:LEU:HD12	2.09	0.57
6:qC:65:THR:CG2	6:qE:46:SER:OG	2.52	0.57
6:qI:112:LEU:CB	6:qK:58:LEU:HD13	2.34	0.57
1:ao:104:CYS:HA	2:hY:62:GLN:NE2	2.19	0.57
2:az:61:GLY:HA3	1:dk:103:ARG:HD2	1.85	0.57
1:aB:63:VAL:HG22	1:aB:74:ASP:HB3	1.86	0.57
1:aB:104:CYS:HA	2:kV:62:GLN:NE2	2.19	0.57
1:aO:103:ARG:HG2	2:iX:61:GLY:HA2	1.84	0.57
2:aV:188:MET:HE3	2:aV:188:MET:HA	1.87	0.57
2:aW:5:THR:OG1	2:aW:6:PRO:HD3	2.04	0.57
2:aW:134:GLN:OE1	2:aW:134:GLN:N	2.30	0.57
2:bb:61:GLY:HA3	1:je:103:ARG:HD2	1.85	0.57
2:bo:278:VAL:HG11	2:bo:295:VAL:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bx:219:VAL:HG23	2:bx:259:ILE:HD12	1.85	0.57
1:bH:98:LEU:O	1:bH:98:LEU:HD23	2.05	0.57
2:bL:179:LEU:HD22	2:bL:209:TYR:CD2	2.39	0.57
1:bR:59:VAL:HG13	1:bR:77:GLY:HA3	1.86	0.57
1:bT:102:GLU:HB3	2:eZ:62:GLN:HG3	1.84	0.57
1:ct:59:VAL:HG13	1:ct:77:GLY:HA3	1.86	0.57
2:cB:121:LEU:O	2:cB:214:ARG:NH2	2.37	0.57
2:cB:205:MET:HE2	2:cP:63:ARG:HD2	1.84	0.57
2:cD:144:TYR:HB3	2:cD:145:PRO:HD2	1.86	0.57
1:cJ:103:ARG:O	2:iL:62:GLN:HB2	2.03	0.57
1:dj:59:VAL:HG13	1:dj:77:GLY:HA3	1.86	0.57
2:dv:278:VAL:HG11	2:dv:295:VAL:O	2.05	0.57
2:dF:205:MET:HE2	2:pg:63:ARG:CD	2.34	0.57
1:dM:104:CYS:HA	2:pN:62:GLN:NE2	2.19	0.57
2:dS:187:ARG:HD2	2:dS:203:VAL:HG22	1.86	0.57
2:dT:106:MET:HG3	2:dT:184:TYR:CD1	2.36	0.57
2:dW:219:VAL:HG23	2:dW:259:ILE:HD12	1.86	0.57
2:dX:278:VAL:HG11	2:dX:295:VAL:O	2.05	0.57
2:eh:121:LEU:O	2:eh:214:ARG:NH2	2.37	0.57
2:eu:187:ARG:HD2	2:eu:203:VAL:HG22	1.86	0.57
2:eA:239:PHE:HE1	2:eA:294:LEU:HD22	1.69	0.57
2:eL:86:VAL:HG11	2:eL:102:LEU:CD1	2.33	0.57
2:eM:5:THR:HG23	2:eM:5:THR:O	2.03	0.57
2:eM:107:GLY:CA	2:eM:184:TYR:CE1	2.85	0.57
2:fl:205:MET:HE2	2:nA:63:ARG:CD	2.34	0.57
2:fq:62:GLN:NE2	1:ia:104:CYS:HA	2.19	0.57
1:fr:100:LYS:HD2	2:nz:197:LYS:HZ2	1.69	0.57
2:gb:78:LYS:NZ	2:ih:58:GLU:OE1	2.27	0.57
2:gp:63:ARG:CD	2:hT:205:MET:HE2	2.33	0.57
2:gI:239:PHE:HE1	2:gI:294:LEU:HD22	1.70	0.57
1:gX:59:VAL:HG13	1:gX:77:GLY:HA3	1.86	0.57
2:hF:63:ARG:CD	2:IG:205:MET:HE2	2.34	0.57
2:hF:121:LEU:O	2:hF:214:ARG:NH2	2.37	0.57
2:hh:144:TYR:HB3	2:hh:145:PRO:HD2	1.87	0.57
2:hi:107:GLY:CA	2:hi:184:TYR:CE1	2.85	0.57
1:ho:98:LEU:O	1:ho:98:LEU:HD23	2.05	0.57
2:hV:274:ALA:HB1	2:hV:297:VAL:HG21	1.85	0.57
2:ih:121:LEU:O	2:ih:214:ARG:NH2	2.37	0.57
1:io:63:VAL:HG22	1:io:74:ASP:HB3	1.86	0.57
2:iI:179:LEU:HD22	2:iI:209:TYR:CD2	2.39	0.57
2:iN:278:VAL:HG11	2:iN:295:VAL:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iS:98:LEU:O	1:iS:98:LEU:HD23	2.05	0.57
2:iW:179:LEU:HD22	2:iW:209:TYR:CD2	2.39	0.57
2:jb:278:VAL:HG11	2:jb:295:VAL:O	2.05	0.57
2:jz:121:LEU:O	2:jz:214:ARG:NH2	2.37	0.57
2:jQ:5:THR:HG23	2:jQ:5:THR:O	2.03	0.57
2:kd:86:VAL:HG11	2:kd:102:LEU:CD1	2.33	0.57
2:kt:86:VAL:O	2:kt:202:GLN:N	2.37	0.57
1:kZ:98:LEU:O	1:kZ:98:LEU:HD23	2.05	0.57
2:lf:117:LEU:HD21	2:lf:211:TYR:HA	1.84	0.57
1:ly:59:VAL:HG13	1:ly:77:GLY:HA3	1.86	0.57
2:lF:179:LEU:HD22	2:lF:209:TYR:CD2	2.39	0.57
2:lF:187:ARG:HD2	2:lF:203:VAL:HG22	1.86	0.57
2:lG:63:ARG:CD	2:mY:205:MET:HE2	2.34	0.57
2:lU:5:THR:OG1	2:lU:6:PRO:HD3	2.04	0.57
2:mi:78:LYS:NZ	2:mw:58:GLU:OE1	2.27	0.57
2:mk:62:GLN:HB2	1:nu:103:ARG:O	2.03	0.57
1:mC:59:VAL:HG13	1:mC:77:GLY:HA3	1.86	0.57
2:mJ:187:ARG:HD2	2:mJ:203:VAL:HG22	1.86	0.57
2:nc:86:VAL:HG11	2:nc:102:LEU:HD11	1.85	0.57
2:nn:278:VAL:HG11	2:nn:295:VAL:O	2.03	0.57
1:nJ:98:LEU:O	1:nJ:98:LEU:HD23	2.05	0.57
2:oe:144:TYR:HB3	2:oe:145:PRO:HD2	1.87	0.57
2:os:144:TYR:HB3	2:os:145:PRO:HD2	1.86	0.57
1:oz:98:LEU:O	1:oz:98:LEU:HD23	2.05	0.57
2:oR:179:LEU:HD22	2:oR:209:TYR:CD2	2.39	0.57
2:pu:205:MET:HE2	2:pI:63:ARG:CD	2.33	0.57
2:py:86:VAL:HG11	2:py:102:LEU:HD11	1.86	0.57
3:qd:64:GLY:C	4:qm:219:ILE:HG23	2.29	0.57
3:qh:63:GLN:OE1	3:qh:64:GLY:N	2.37	0.57
6:qE:112:LEU:CB	6:qG:58:LEU:HD13	2.34	0.57
6:qG:112:LEU:CB	6:qI:58:LEU:HD13	2.34	0.57
6:qI:65:THR:CB	6:qK:46:SER:OG	2.51	0.57
6:qK:65:THR:CB	6:qM:46:SER:OG	2.51	0.57
1:an:59:VAL:HG13	1:an:77:GLY:HA3	1.86	0.57
1:aC:102:GLU:HB2	1:hn:99:LEU:CD2	2.33	0.57
2:aH:179:LEU:HD22	2:aH:209:TYR:HD2	1.68	0.57
2:aH:215:SER:O	2:aH:216:ARG:NE	2.38	0.57
2:aI:61:GLY:HA2	1:kh:103:ARG:HG2	1.84	0.57
2:aN:53:PHE:O	2:aN:255:ARG:NH2	2.36	0.57
2:aN:62:GLN:NE2	1:hm:104:CYS:HA	2.19	0.57
2:aV:187:ARG:HD2	2:aV:203:VAL:HG22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bm:274:ALA:HB1	2:bm:297:VAL:HG21	1.85	0.57
2:bp:62:GLN:NE2	1:ki:104:CYS:HA	2.19	0.57
2:bx:179:LEU:HD22	2:bx:209:TYR:CD2	2.39	0.57
2:bY:281:GLN:N	2:bY:281:GLN:OE1	2.38	0.57
2:bZ:5:THR:OG1	2:bZ:6:PRO:HD3	2.04	0.57
1:cg:104:CYS:HA	2:jq:62:GLN:NE2	2.19	0.57
2:cp:274:ALA:HB1	2:cp:297:VAL:HG21	1.85	0.57
1:cw:98:LEU:O	1:cw:98:LEU:HD23	2.05	0.57
2:cF:278:VAL:HG11	2:cF:295:VAL:O	2.05	0.57
2:cG:62:GLN:NE2	1:pB:104:CYS:HA	2.19	0.57
1:cK:98:LEU:O	1:cK:98:LEU:HD23	2.05	0.57
1:cY:98:LEU:O	1:cY:98:LEU:HD23	2.05	0.57
2:dc:188:MET:HE3	2:dc:188:MET:HA	1.87	0.57
2:dh:278:VAL:HG11	2:dh:295:VAL:O	2.05	0.57
1:dy:63:VAL:HG22	1:dy:74:ASP:HB3	1.86	0.57
2:dE:187:ARG:HD2	2:dE:203:VAL:HG22	1.86	0.57
1:dL:103:ARG:HG2	2:pg:61:GLY:HA2	1.84	0.57
2:dW:107:GLY:HA2	2:dW:184:TYR:HE1	1.66	0.57
2:dW:107:GLY:CA	2:dW:184:TYR:CE1	2.85	0.57
1:dZ:100:LYS:CG	1:nM:100:LYS:HZ3	1.93	0.57
2:eh:171:TYR:OH	2:nA:20:PHE:N	2.36	0.57
2:el:278:VAL:HG11	2:el:295:VAL:O	2.05	0.57
1:ep:103:ARG:O	2:pi:62:GLN:HB2	2.03	0.57
2:ez:86:VAL:HG11	2:ez:102:LEU:HD11	1.85	0.57
2:eO:53:PHE:O	2:eO:255:ARG:NH2	2.35	0.57
1:eP:59:VAL:HG13	1:eP:77:GLY:HA3	1.86	0.57
1:fg:98:LEU:O	1:fg:98:LEU:HD23	2.05	0.57
1:fg:99:LEU:C	2:ii:197:LYS:NZ	2.58	0.57
2:fk:187:ARG:HD2	2:fk:203:VAL:HG22	1.86	0.57
2:fk:219:VAL:HG23	2:fk:259:ILE:HD12	1.85	0.57
2:fo:5:THR:HG23	2:fo:5:THR:O	2.03	0.57
2:fp:278:VAL:HG11	2:fp:295:VAL:O	2.05	0.57
1:fs:104:CYS:HA	2:oh:62:GLN:NE2	2.19	0.57
2:fy:215:SER:O	2:fy:216:ARG:NE	2.38	0.57
2:fA:197:LYS:NZ	1:nX:99:LEU:CA	2.59	0.57
2:fE:239:PHE:HE1	2:fE:294:LEU:HD22	1.70	0.57
1:fI:98:LEU:O	1:fI:98:LEU:HD23	2.05	0.57
2:fS:36:THR:O	2:fS:175:THR:OG1	2.18	0.57
2:fS:61:GLY:HA3	1:mp:103:ARG:HD2	1.85	0.57
2:ga:179:LEU:HD22	2:ga:209:TYR:CD2	2.39	0.57
2:gd:274:ALA:HB1	2:gd:297:VAL:HG21	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:go:188:MET:HE3	2:go:188:MET:HA	1.87	0.57
1:gM:98:LEU:O	1:gM:98:LEU:HD23	2.05	0.57
2:gS:278:VAL:HG11	2:gS:295:VAL:O	2.03	0.57
1:ha:98:LEU:O	1:ha:98:LEU:HD23	2.05	0.57
2:hh:62:GLN:HB2	1:mq:103:ARG:O	2.03	0.57
1:hm:63:VAL:HG22	1:hm:74:ASP:HB3	1.86	0.57
2:hs:187:ARG:HD2	2:hs:203:VAL:HG22	1.86	0.57
2:hv:5:THR:O	2:hv:5:THR:HG23	2.03	0.57
2:hS:179:LEU:HD22	2:hS:209:TYR:CD2	2.39	0.57
2:ik:219:VAL:HG23	2:ik:259:ILE:HD12	1.86	0.57
2:il:278:VAL:HG11	2:il:295:VAL:O	2.05	0.57
2:jk:187:ARG:HD2	2:jk:203:VAL:HG22	1.87	0.57
2:jp:278:VAL:HG11	2:jp:295:VAL:O	2.05	0.57
2:jq:239:PHE:HE1	2:jq:294:LEU:HD22	1.70	0.57
2:jy:179:LEU:HD22	2:jy:209:TYR:CD2	2.39	0.57
2:jN:221:PHE:HD1	2:jN:242:VAL:HG22	1.70	0.57
1:kh:59:VAL:HG13	1:kh:77:GLY:HA3	1.86	0.57
1:kL:98:LEU:O	1:kL:98:LEU:HD23	2.05	0.57
2:lf:278:VAL:HG11	2:lf:295:VAL:O	2.03	0.57
2:lG:106:MET:HG3	2:lG:184:TYR:CD1	2.36	0.57
2:lH:278:VAL:HG11	2:lH:295:VAL:O	2.03	0.57
2:IT:215:SER:O	2:IT:216:ARG:NE	2.38	0.57
2:IY:86:VAL:HG11	2:IY:102:LEU:HD11	1.85	0.57
2:mm:86:VAL:HG11	2:mm:102:LEU:HD11	1.85	0.57
2:mv:281:GLN:N	2:mv:281:GLN:OE1	2.38	0.57
2:mM:274:ALA:HB1	2:mM:297:VAL:HG21	1.85	0.57
1:mR:102:GLU:OE1	2:mZ:197:LYS:NZ	2.30	0.57
2:mY:121:LEU:O	2:mY:214:ARG:NH2	2.37	0.57
2:na:144:TYR:HB3	2:na:145:PRO:HD2	1.87	0.57
2:nz:179:LEU:HD22	2:nz:209:TYR:CD2	2.39	0.57
2:nz:187:ARG:HD2	2:nz:203:VAL:HG22	1.86	0.57
2:nN:188:MET:HA	2:nN:188:MET:HE3	1.87	0.57
2:nN:219:VAL:HG23	2:nN:259:ILE:HD12	1.85	0.57
2:ob:187:ARG:HD2	2:ob:203:VAL:HG22	1.86	0.57
2:op:187:ARG:HD2	2:op:203:VAL:HG22	1.86	0.57
2:ou:278:VAL:HG11	2:ou:295:VAL:O	2.05	0.57
2:oG:86:VAL:HG11	2:oG:102:LEU:CD1	2.33	0.57
1:oN:98:LEU:O	1:oN:98:LEU:HD23	2.05	0.57
1:pb:98:LEU:O	1:pb:98:LEU:HD23	2.05	0.57
2:pu:106:MET:HG3	2:pu:184:TYR:CD1	2.36	0.57
1:pA:59:VAL:HG13	1:pA:77:GLY:HA3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:pD:98:LEU:O	1:pD:98:LEU:HD23	2.05	0.57
1:pR:98:LEU:O	1:pR:98:LEU:HD23	2.05	0.57
2:pV:179:LEU:HD22	2:pV:209:TYR:CD2	2.39	0.57
2:qb:239:PHE:HE1	2:qb:294:LEU:HD22	1.70	0.57
3:qi:68:ALA:HB2	4:qo:8:TYR:OH	2.04	0.57
5:qp:232:LEU:HD21	5:qL:229:ILE:HD13	1.85	0.57
5:qp:255:VAL:CG1	5:qr:263:ALA:HB1	2.31	0.57
6:qq:58:LEU:HD12	6:qM:112:LEU:CG	2.09	0.57
5:qB:96:ARG:HD3	5:qD:114:LEU:CD2	2.27	0.57
2:au:281:GLN:N	2:au:281:GLN:OE1	2.38	0.57
2:aw:274:ALA:HB1	2:aw:297:VAL:HG21	1.85	0.57
2:ax:219:VAL:HG23	2:ax:259:ILE:HD12	1.86	0.57
2:ay:278:VAL:HG11	2:ay:295:VAL:O	2.05	0.57
2:aI:5:THR:OG1	2:aI:6:PRO:HD3	2.04	0.57
2:aW:106:MET:HG3	2:aW:184:TYR:CD1	2.36	0.57
1:bd:63:VAL:HG22	1:bd:74:ASP:HB3	1.86	0.57
2:bm:62:GLN:HG3	1:iR:102:GLU:HB3	1.84	0.57
2:bp:209:TYR:OH	2:dq:93:ASP:OD2	2.22	0.57
1:br:104:CYS:HA	2:fc:62:GLN:NE2	2.19	0.57
2:bx:187:ARG:HD2	2:bx:203:VAL:HG22	1.86	0.57
1:bE:103:ARG:HG2	2:hT:61:GLY:HA2	1.84	0.57
2:bO:5:THR:HG23	2:bO:5:THR:O	2.03	0.57
2:bY:187:ARG:HD2	2:bY:203:VAL:HG22	1.86	0.57
2:ce:62:GLN:NE2	1:eQ:104:CYS:HA	2.19	0.57
1:cg:103:ARG:HD2	2:jq:61:GLY:HA3	1.85	0.57
2:cA:179:LEU:HD22	2:cA:209:TYR:HD2	1.68	0.57
2:cP:5:THR:OG1	2:cP:6:PRO:HD3	2.04	0.57
2:dc:179:LEU:HD22	2:dc:209:TYR:CD2	2.39	0.57
2:df:274:ALA:HB1	2:df:297:VAL:HG21	1.85	0.57
2:dt:144:TYR:HB3	2:dt:145:PRO:HD2	1.87	0.57
2:dE:188:MET:HA	2:dE:188:MET:HE3	1.87	0.57
2:dT:282:ARG:NH2	2:oS:282:ARG:HH11	1.93	0.57
2:dW:5:THR:HG23	2:dW:5:THR:O	2.03	0.57
2:dX:86:VAL:HG11	2:dX:102:LEU:HD11	1.86	0.57
1:dZ:59:VAL:HG13	1:dZ:77:GLY:HA3	1.86	0.57
1:ef:100:LYS:N	2:nF:197:LYS:CE	2.60	0.57
2:eg:179:LEU:HD22	2:eg:209:TYR:CD2	2.39	0.57
2:eg:219:VAL:HG23	2:eg:259:ILE:HD12	1.85	0.57
2:ej:144:TYR:HB3	2:ej:145:PRO:HD2	1.87	0.57
2:ej:274:ALA:HB1	2:ej:297:VAL:HG21	1.85	0.57
2:eu:219:VAL:HG23	2:eu:259:ILE:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eA:61:GLY:HA3	1:oZ:103:ARG:HD2	1.85	0.57
1:eB:59:VAL:HG13	1:eB:77:GLY:HA3	1.86	0.57
1:eE:98:LEU:O	1:eE:98:LEU:HD23	2.05	0.57
2:eO:141:HIS:N	2:eO:148:ASP:O	2.35	0.57
2:fc:53:PHE:O	2:fc:255:ARG:NH2	2.36	0.57
2:fy:219:VAL:HG23	2:fy:259:ILE:HD12	1.85	0.57
2:fz:205:MET:HE2	2:mi:63:ARG:CD	2.34	0.57
2:fQ:219:VAL:HG23	2:fQ:259:ILE:HD12	1.86	0.57
1:fU:63:VAL:HG22	1:fU:74:ASP:HB3	1.86	0.57
1:fU:104:CYS:HA	2:mn:62:GLN:NE2	2.19	0.57
2:gg:61:GLY:HA3	1:nt:103:ARG:HD2	1.85	0.57
2:gp:63:ARG:HD2	2:hT:205:MET:HE2	1.84	0.57
2:gH:278:VAL:HG11	2:gH:295:VAL:O	2.05	0.57
2:gQ:179:LEU:HD22	2:gQ:209:TYR:CD2	2.39	0.57
2:gU:107:GLY:HA2	2:gU:184:TYR:HE1	1.66	0.57
1:gY:104:CYS:HA	2:mB:62:GLN:NE2	2.19	0.57
2:he:187:ARG:HD2	2:he:203:VAL:HG22	1.86	0.57
2:hf:5:THR:OG1	2:hf:6:PRO:HD3	2.04	0.57
2:hf:20:PHE:N	2:kC:171:TYR:OH	2.36	0.57
2:hj:83:THR:OG1	2:hj:203:VAL:O	2.21	0.57
1:hq:99:LEU:HA	2:kq:197:LYS:CD	2.13	0.57
2:hw:278:VAL:HG11	2:hw:295:VAL:O	2.05	0.57
2:hx:62:GLN:NE2	1:kJ:104:CYS:HA	2.19	0.57
2:hH:144:TYR:HB3	2:hH:145:PRO:HD2	1.86	0.57
2:ik:107:GLY:HA2	2:ik:184:TYR:HE1	1.66	0.57
1:ip:102:GLU:HB3	2:lu:62:GLN:HG3	1.85	0.57
2:iN:171:TYR:OH	2:iN:175:THR:OG1	2.12	0.57
2:iO:239:PHE:HE1	2:iO:294:LEU:HD22	1.70	0.57
1:je:63:VAL:HG22	1:je:74:ASP:HB3	1.86	0.57
1:jg:98:LEU:O	1:jg:98:LEU:HD23	2.05	0.57
1:jr:59:VAL:HG13	1:jr:77:GLY:HA3	1.86	0.57
2:jy:187:ARG:HD2	2:jy:203:VAL:HG22	1.86	0.57
2:jy:188:MET:HA	2:jy:188:MET:HE3	1.87	0.57
1:jG:63:VAL:HG22	1:jG:74:ASP:HB3	1.86	0.57
2:jR:278:VAL:HG11	2:jR:295:VAL:O	2.05	0.57
2:ka:179:LEU:HD22	2:ka:209:TYR:CD2	2.39	0.57
2:kd:274:ALA:HB1	2:kd:297:VAL:HG21	1.85	0.57
2:kg:53:PHE:O	2:kg:255:ARG:NH2	2.36	0.57
2:kG:86:VAL:HG11	2:kG:102:LEU:HD11	1.86	0.57
1:kJ:63:VAL:HG22	1:kJ:74:ASP:HB3	1.86	0.57
2:kQ:121:LEU:O	2:kQ:214:ARG:NH2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kS:274:ALA:HB1	2:kS:297:VAL:HG21	1.85	0.57
2:ld:179:LEU:HD22	2:ld:209:TYR:CD2	2.39	0.57
1:ln:98:LEU:O	1:ln:98:LEU:HD23	2.05	0.57
2:ll:144:TYR:HB3	2:ll:145:PRO:HD2	1.86	0.57
2:mk:86:VAL:HG11	2:mk:102:LEU:CD1	2.33	0.57
1:mp:63:VAL:HG22	1:mp:74:ASP:HB3	1.86	0.57
2:mA:278:VAL:HG11	2:mA:295:VAL:O	2.05	0.57
2:mX:179:LEU:HD22	2:mX:209:TYR:CD2	2.39	0.57
2:mX:187:ARG:HD2	2:mX:203:VAL:HG22	1.86	0.57
2:nc:278:VAL:HG11	2:nc:295:VAL:O	2.05	0.57
1:nh:98:LEU:O	1:nh:98:LEU:HD23	2.05	0.57
2:nz:179:LEU:HD22	2:nz:209:TYR:HD2	1.68	0.57
1:oo:99:LEU:HG	1:qc:102:GLU:OE2	1.74	0.57
2:oq:5:THR:OG1	2:oq:6:PRO:HD3	2.04	0.57
2:oJ:239:PHE:HE1	2:oJ:294:LEU:HD22	1.70	0.57
2:oR:187:ARG:HD2	2:oR:203:VAL:HG22	1.86	0.57
2:oS:5:THR:OG1	2:oS:6:PRO:HD3	2.04	0.57
2:oW:86:VAL:HG11	2:oW:102:LEU:HD11	1.85	0.57
2:pi:274:ALA:HB1	2:pi:297:VAL:HG21	1.85	0.57
2:pu:121:LEU:O	2:pu:214:ARG:NH2	2.37	0.57
2:px:219:VAL:HG23	2:px:259:ILE:HD12	1.86	0.57
2:pI:121:LEU:O	2:pI:214:ARG:NH2	2.37	0.57
3:qe:55:GLU:HB3	4:qm:223:ASN:HD21	1.70	0.57
3:qe:68:ALA:CA	4:qm:8:TYR:OH	2.51	0.57
6:qE:112:LEU:HD23	6:qG:58:LEU:CD1	1.02	0.57
2:au:179:LEU:HD22	2:au:209:TYR:HD2	1.68	0.57
2:ay:86:VAL:HG11	2:ay:102:LEU:HD11	1.85	0.57
2:aK:274:ALA:HB1	2:aK:297:VAL:HG21	1.85	0.57
1:aP:103:ARG:HD2	2:cs:61:GLY:HA3	1.85	0.57
2:bk:5:THR:OG1	2:bk:6:PRO:HD3	2.04	0.57
2:cb:274:ALA:HB1	2:cb:297:VAL:HG21	1.85	0.57
2:cd:86:VAL:HG11	2:cd:102:LEU:HD11	1.86	0.57
1:cg:63:VAL:HG22	1:cg:74:ASP:HB3	1.86	0.57
2:cr:278:VAL:HG11	2:cr:295:VAL:O	2.05	0.57
2:cs:197:LYS:CE	1:ps:100:LYS:N	2.60	0.57
2:cO:281:GLN:N	2:cO:281:GLN:OE1	2.38	0.57
2:dc:281:GLN:N	2:dc:281:GLN:OE1	2.38	0.57
2:dd:121:LEU:O	2:dd:214:ARG:NH2	2.37	0.57
2:dq:281:GLN:N	2:dq:281:GLN:OE1	2.38	0.57
2:dr:221:PHE:HD1	2:dr:242:VAL:HG22	1.70	0.57
2:dW:239:PHE:HE1	2:dW:294:LEU:HD22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dx:59:VAL:HG13	1:dx:77:GLY:HA3	1.86	0.57
2:dE:219:VAL:HG23	2:dE:259:ILE:HD12	1.85	0.57
2:dS:215:SER:O	2:dS:216:ARG:NE	2.38	0.57
2:dS:281:GLN:OE1	2:dS:281:GLN:N	2.38	0.57
2:eu:179:LEU:HD22	2:eu:209:TYR:CD2	2.39	0.57
2:eI:179:LEU:HD22	2:eI:209:TYR:CD2	2.39	0.57
2:eW:215:SER:O	2:eW:216:ARG:NE	2.38	0.57
2:eZ:274:ALA:HB1	2:eZ:297:VAL:HG21	1.85	0.57
1:fr:59:VAL:HG13	1:fr:77:GLY:HA3	1.86	0.57
2:fy:188:MET:HE3	2:fy:188:MET:HA	1.87	0.57
2:fA:278:VAL:HG11	2:fA:295:VAL:O	2.03	0.57
2:fB:86:VAL:HG11	2:fB:102:LEU:CD1	2.33	0.57
2:fM:179:LEU:HD22	2:fM:209:TYR:CD2	2.39	0.57
2:ga:219:VAL:HG23	2:ga:259:ILE:HD12	1.85	0.57
1:gw:63:VAL:HG22	1:gw:74:ASP:HB3	1.86	0.57
2:gC:219:VAL:HG23	2:gC:259:ILE:HD12	1.85	0.57
2:gF:144:TYR:HB3	2:gF:145:PRO:HD2	1.86	0.57
2:gQ:187:ARG:HD2	2:gQ:203:VAL:HG22	1.86	0.57
2:he:179:LEU:HD22	2:he:209:TYR:HD2	1.68	0.57
2:hs:104:GLN:HE22	5:qB:179:ALA:HA	1.65	0.57
2:hF:187:ARG:HD2	2:hF:203:VAL:HG22	1.86	0.57
2:hS:187:ARG:HD2	2:hS:203:VAL:HG22	1.86	0.57
2:hS:219:VAL:HG23	2:hS:259:ILE:HD12	1.85	0.57
2:iv:5:THR:OG1	2:iv:6:PRO:HD3	2.04	0.57
2:iL:274:ALA:HB1	2:iL:297:VAL:HG21	1.85	0.57
2:iX:198:GLU:CG	1:jj:102:GLU:HA	2.35	0.57
2:iX:221:PHE:HD1	2:iX:242:VAL:HG22	1.70	0.57
2:jk:281:GLN:OE1	2:jk:281:GLN:N	2.38	0.57
2:jp:83:THR:OG1	2:jp:203:VAL:O	2.21	0.57
2:jp:86:VAL:HG11	2:jp:102:LEU:HD11	1.86	0.57
1:ju:98:LEU:O	1:ju:98:LEU:HD23	2.05	0.57
1:kv:63:VAL:HG22	1:kv:74:ASP:HB3	1.86	0.57
2:kB:281:GLN:OE1	2:kB:281:GLN:N	2.38	0.57
1:kI:59:VAL:HG13	1:kI:77:GLY:HA3	1.86	0.57
2:kP:187:ARG:HD2	2:kP:203:VAL:HG22	1.86	0.57
2:kQ:221:PHE:HD1	2:kQ:242:VAL:HG22	1.70	0.57
2:kU:278:VAL:HG11	2:kU:295:VAL:O	2.05	0.57
1:kY:99:LEU:CD2	1:oy:102:GLU:HB2	2.33	0.57
2:lx:239:PHE:HE1	2:lx:294:LEU:HD22	1.70	0.57
2:lF:179:LEU:HD22	2:lF:209:TYR:HD2	1.68	0.57
2:lG:221:PHE:HD1	2:lG:242:VAL:HG22	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IM:59:VAL:HG13	1:IM:77:GLY:HA3	1.86	0.57
2:IT:179:LEU:HD22	2:IT:209:TYR:HD2	1.68	0.57
2:IT:188:MET:HA	2:IT:188:MET:HE3	1.87	0.57
2:IX:219:VAL:HG23	2:IX:259:ILE:HD12	1.86	0.57
2:IZ:239:PHE:HE1	2:IZ:294:LEU:HD22	1.69	0.57
2:mh:281:GLN:N	2:mh:281:GLN:OE1	2.38	0.57
2:mi:198:GLU:CG	1:mu:102:GLU:HA	2.35	0.57
2:mj:278:VAL:HG11	2:mj:295:VAL:O	2.03	0.57
2:my:144:TYR:HB3	2:my:145:PRO:HD2	1.87	0.57
2:mJ:219:VAL:HG23	2:mJ:259:ILE:HD12	1.85	0.57
2:mK:121:LEU:O	2:mK:214:ARG:NH2	2.37	0.57
2:mO:83:THR:OG1	2:mO:203:VAL:O	2.21	0.57
2:mP:36:THR:O	2:mP:175:THR:OG1	2.18	0.57
2:mX:179:LEU:HD22	2:mX:209:TYR:HD2	1.68	0.57
2:nO:5:THR:OG1	2:nO:6:PRO:HD3	2.04	0.57
2:oc:5:THR:OG1	2:oc:6:PRO:HD3	2.04	0.57
2:oI:86:VAL:HG11	2:oI:102:LEU:HD11	1.85	0.57
2:oV:219:VAL:HG23	2:oV:259:ILE:HD12	1.86	0.57
2:py:278:VAL:HG11	2:py:295:VAL:O	2.05	0.57
2:pM:86:VAL:HG11	2:pM:102:LEU:HD11	1.85	0.57
2:pM:278:VAL:HG11	2:pM:295:VAL:O	2.05	0.57
2:pW:106:MET:HG3	2:pW:184:TYR:CD1	2.36	0.57
2:qa:83:THR:OG1	2:qa:203:VAL:O	2.21	0.57
5:qp:263:ALA:HB1	5:qL:255:VAL:CG1	2.31	0.57
6:qy:11:GLU:CD	6:qA:39:ARG:HD2	2.29	0.57
2:ag:281:GLN:OE1	2:ag:281:GLN:N	2.38	0.57
1:aG:102:GLU:HA	2:kb:198:GLU:CG	2.35	0.57
2:aI:63:ARG:CD	2:kb:205:MET:HE2	2.34	0.57
2:aW:61:GLY:HA2	1:iP:103:ARG:HG2	1.84	0.57
2:aW:205:MET:HE2	2:bk:63:ARG:CD	2.33	0.57
1:bc:59:VAL:HG13	1:bc:77:GLY:HA3	1.86	0.57
1:bd:104:CYS:HA	2:jc:62:GLN:CD	2.30	0.57
2:bn:219:VAL:HG23	2:bn:259:ILE:HD12	1.86	0.57
2:bo:86:VAL:HG11	2:bo:102:LEU:HD11	1.85	0.57
2:bB:219:VAL:HG23	2:bB:259:ILE:HD12	1.86	0.57
2:bL:110:ALA:HB3	5:qr:178:PRO:HG3	1.85	0.57
1:bU:98:LEU:O	1:bU:98:LEU:HD23	2.05	0.57
2:bY:215:SER:O	2:bY:216:ARG:NE	2.38	0.57
2:cc:219:VAL:HG23	2:cc:259:ILE:HD12	1.86	0.57
2:cU:239:PHE:HE1	2:cU:294:LEU:HD22	1.69	0.57
2:di:62:GLN:CD	1:dy:104:CYS:HA	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dE:179:LEU:HD22	2:dE:209:TYR:HD2	1.68	0.57
2:dE:281:GLN:N	2:dE:281:GLN:OE1	2.38	0.57
2:dF:198:GLU:CG	1:pe:102:GLU:HA	2.35	0.57
2:dK:86:VAL:O	2:dK:202:GLN:N	2.37	0.57
1:eb:102:GLU:HB2	1:nW:99:LEU:CD2	2.33	0.57
1:ec:105:THR:CG2	2:ew:60:ILE:CG2	2.62	0.57
2:eg:215:SER:O	2:eg:216:ARG:NE	2.38	0.57
2:eh:106:MET:HG3	2:eh:184:TYR:CD1	2.36	0.57
2:ex:274:ALA:HB1	2:ex:297:VAL:HG21	1.85	0.57
2:ey:219:VAL:HG23	2:ey:259:ILE:HD12	1.86	0.57
2:ez:278:VAL:HG11	2:ez:295:VAL:O	2.05	0.57
2:eA:62:GLN:CD	1:oZ:104:CYS:HA	2.30	0.57
2:eJ:171:TYR:OH	2:gp:20:PHE:N	2.36	0.57
2:fc:239:PHE:HE1	2:fc:294:LEU:HD22	1.70	0.57
2:fl:198:GLU:CG	1:ny:102:GLU:HA	2.35	0.57
2:fy:281:GLN:N	2:fy:281:GLN:OE1	2.38	0.57
1:fG:104:CYS:HA	2:hk:62:GLN:CD	2.30	0.57
2:fR:86:VAL:HG11	2:fR:102:LEU:HD11	1.85	0.57
2:ge:219:VAL:HG23	2:ge:259:ILE:HD12	1.86	0.57
2:gf:86:VAL:HG11	2:gf:102:LEU:HD11	1.85	0.57
2:gg:62:GLN:NE2	1:nt:104:CYS:HA	2.19	0.57
2:go:281:GLN:N	2:go:281:GLN:OE1	2.38	0.57
2:gp:221:PHE:HD1	2:gp:242:VAL:HG22	1.70	0.57
2:gr:274:ALA:HB1	2:gr:297:VAL:HG21	1.85	0.57
2:gt:278:VAL:HG11	2:gt:295:VAL:O	2.05	0.57
1:gy:98:LEU:O	1:gy:98:LEU:HD23	2.05	0.57
2:gC:215:SER:O	2:gC:216:ARG:NE	2.38	0.57
2:gH:83:THR:OG1	2:gH:203:VAL:O	2.21	0.57
2:gV:86:VAL:HG11	2:gV:102:LEU:HD11	1.85	0.57
2:he:281:GLN:N	2:he:281:GLN:OE1	2.38	0.57
2:hk:239:PHE:HE1	2:hk:294:LEU:HD22	1.69	0.57
2:hs:188:MET:HA	2:hs:188:MET:HE3	1.87	0.57
1:hB:98:LEU:O	1:hB:98:LEU:HD23	2.05	0.57
1:hO:98:LEU:O	1:hO:98:LEU:HD23	2.05	0.57
2:hT:121:LEU:O	2:hT:214:ARG:NH2	2.37	0.57
1:ic:98:LEU:O	1:ic:98:LEU:HD23	2.05	0.57
2:ig:188:MET:HE3	2:ig:188:MET:HA	1.87	0.57
1:io:104:CYS:HA	2:qb:62:GLN:CD	2.30	0.57
2:ix:274:ALA:HB1	2:ix:297:VAL:HG21	1.85	0.57
2:iy:219:VAL:HG23	2:iy:259:ILE:HD12	1.86	0.57
2:iI:281:GLN:OE1	2:iI:281:GLN:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jl:5:THR:OG1	2:jl:6:PRO:HD3	2.04	0.57
2:jy:215:SER:O	2:jy:216:ARG:NE	2.38	0.57
2:jM:179:LEU:HD22	2:jM:209:TYR:HD2	1.68	0.57
2:jM:179:LEU:HD22	2:jM:209:TYR:CD2	2.39	0.57
2:jM:188:MET:HA	2:jM:188:MET:HE3	1.87	0.57
2:ka:187:ARG:HD2	2:ka:203:VAL:HG22	1.86	0.57
2:kb:61:GLY:HA2	1:ly:103:ARG:HG2	1.84	0.57
2:ke:107:GLY:HA2	2:ke:184:TYR:HE1	1.66	0.57
2:kf:278:VAL:HG11	2:kf:295:VAL:O	2.05	0.57
1:kv:103:ARG:HD2	2:lZ:61:GLY:HA3	1.85	0.57
1:kx:98:LEU:O	1:kx:98:LEU:HD23	2.05	0.57
1:kX:104:CYS:HA	2:oJ:62:GLN:CD	2.30	0.57
2:lw:278:VAL:HG11	2:lw:295:VAL:O	2.05	0.57
2:lF:215:SER:O	2:lF:216:ARG:NE	2.38	0.57
2:lT:179:LEU:HD22	2:lT:209:TYR:CD2	2.39	0.57
1:mc:99:LEU:CD2	1:nu:102:GLU:HB2	2.33	0.57
2:mw:5:THR:OG1	2:mw:6:PRO:HD3	2.04	0.57
2:mJ:188:MET:HA	2:mJ:188:MET:HE3	1.87	0.57
2:nc:83:THR:OG1	2:nc:203:VAL:O	2.21	0.57
2:nm:63:ARG:CD	2:oE:205:MET:HE2	2.34	0.57
2:nz:215:SER:O	2:nz:216:ARG:NE	2.38	0.57
2:nC:144:TYR:HB3	2:nC:145:PRO:HD2	1.87	0.57
2:nF:53:PHE:O	2:nF:255:ARG:NH2	2.35	0.57
2:nO:198:GLU:CG	1:oa:102:GLU:HA	2.35	0.57
1:ok:87:ASP:HB3	2:oT:5:THR:HG22	1.87	0.57
1:ol:98:LEU:O	1:ol:98:LEU:HD23	2.05	0.57
2:oH:5:THR:HG23	2:oH:5:THR:O	2.03	0.57
2:pt:187:ARG:HD2	2:pt:203:VAL:HG22	1.86	0.57
2:pL:219:VAL:HG23	2:pL:259:ILE:HD12	1.86	0.57
3:qi:66:GLN:HA	4:qo:8:TYR:O	2.04	0.57
4:qj:53:GLN:HG2	4:qo:64:LYS:HZ2	1.67	0.57
6:qI:11:GLU:CD	6:qK:39:ARG:HD2	2.29	0.57
2:au:215:SER:O	2:au:216:ARG:NE	2.38	0.57
2:av:5:THR:HG22	1:hN:87:ASP:HB3	1.87	0.57
2:aK:144:TYR:HB3	2:aK:145:PRO:HD2	1.87	0.57
1:aP:104:CYS:HA	2:cs:62:GLN:CD	2.30	0.57
1:aR:98:LEU:O	1:aR:98:LEU:HD23	2.05	0.57
2:bj:281:GLN:N	2:bj:281:GLN:OE1	2.38	0.57
2:bk:198:GLU:CG	1:dp:102:GLU:HA	2.35	0.57
2:bl:232:GLU:O	2:bl:237:VAL:HG23	2.05	0.57
2:bp:62:GLN:CD	1:ki:104:CYS:HA	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bz:5:THR:HG22	1:eR:87:ASP:HB3	1.87	0.57
2:bD:62:GLN:CD	1:bS:104:CYS:HA	2.30	0.57
2:bL:31:TYR:OH	5:qr:176:ASN:CG	2.48	0.57
2:bL:197:LYS:HZ2	1:hL:100:LYS:HD2	1.70	0.57
2:bY:188:MET:HE3	2:bY:188:MET:HA	1.87	0.57
1:cI:104:CYS:HA	2:pz:62:GLN:CD	2.30	0.57
2:cO:215:SER:O	2:cO:216:ARG:NE	2.38	0.57
2:cT:278:VAL:HG11	2:cT:295:VAL:O	2.05	0.57
1:cW:103:ARG:HD2	2:gI:61:GLY:HA3	1.85	0.57
1:cW:104:CYS:HA	2:gI:62:GLN:NE2	2.19	0.57
2:dc:187:ARG:HD2	2:dc:203:VAL:HG22	1.86	0.57
2:dc:215:SER:O	2:dc:216:ARG:NE	2.38	0.57
2:di:62:GLN:NE2	1:dy:104:CYS:HA	2.19	0.57
2:dH:86:VAL:HG11	2:dH:102:LEU:CD1	2.33	0.57
1:dL:59:VAL:HG13	1:dL:77:GLY:HA3	1.86	0.57
2:dS:188:MET:HA	2:dS:188:MET:HE3	1.87	0.57
2:eh:221:PHE:HD1	2:eh:242:VAL:HG22	1.70	0.57
2:el:86:VAL:HG11	2:el:102:LEU:HD11	1.85	0.57
1:eC:104:CYS:HA	2:im:62:GLN:CD	2.30	0.57
2:eO:62:GLN:NE2	1:fe:104:CYS:HA	2.19	0.57
1:eQ:63:VAL:HG22	1:eQ:74:ASP:HB3	1.86	0.57
2:eW:281:GLN:N	2:eW:281:GLN:OE1	2.38	0.57
2:eZ:144:TYR:HB3	2:eZ:145:PRO:HD2	1.87	0.57
1:fe:102:GLU:OE1	2:fm:197:LYS:NZ	2.30	0.57
2:fA:232:GLU:O	2:fA:237:VAL:HG23	2.05	0.57
2:fC:107:GLY:CA	2:fC:184:TYR:CE1	2.85	0.57
2:fO:5:THR:HG22	1:gZ:87:ASP:HB3	1.87	0.57
1:fU:104:CYS:HA	2:mn:62:GLN:CD	2.30	0.57
1:fV:87:ASP:HB3	2:nB:5:THR:HG22	1.87	0.57
2:go:187:ARG:HD2	2:go:203:VAL:HG22	1.86	0.57
2:go:197:LYS:HZ2	1:hZ:100:LYS:HD2	1.70	0.57
2:gt:83:THR:OG1	2:gt:203:VAL:O	2.21	0.57
2:gC:179:LEU:HD22	2:gC:209:TYR:CD2	2.39	0.57
2:gQ:281:GLN:N	2:gQ:281:GLN:OE1	2.38	0.57
2:gV:278:VAL:HG11	2:gV:295:VAL:O	2.05	0.57
1:hd:102:GLU:HA	2:lG:198:GLU:CG	2.35	0.57
2:he:179:LEU:HD22	2:he:209:TYR:CD2	2.39	0.57
2:hv:107:GLY:CA	2:hv:184:TYR:CE1	2.86	0.57
2:hv:219:VAL:HG23	2:hv:259:ILE:HD12	1.86	0.57
2:hx:184:TYR:CE2	5:qz:30:LYS:C	2.83	0.57
2:hT:5:THR:OG1	2:hT:6:PRO:HD3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ik:5:THR:O	2:ik:5:THR:HG23	2.03	0.57
2:iy:107:GLY:HA2	2:iy:184:TYR:HE1	1.66	0.57
2:iI:215:SER:O	2:iI:216:ARG:NE	2.38	0.57
2:iM:107:GLY:HA2	2:iM:184:TYR:HE1	1.66	0.57
1:iQ:104:CYS:HA	2:kt:62:GLN:NE2	2.19	0.57
2:jo:5:THR:O	2:jo:5:THR:HG23	2.03	0.57
1:js:104:CYS:HA	2:nd:62:GLN:CD	2.30	0.57
2:jy:197:LYS:HZ2	1:lk:100:LYS:HD2	1.70	0.57
2:jD:278:VAL:HG11	2:jD:295:VAL:O	2.05	0.57
2:jE:239:PHE:HE1	2:jE:294:LEU:HD22	1.70	0.57
2:jR:86:VAL:HG11	2:jR:102:LEU:HD11	1.86	0.57
2:kc:232:GLU:O	2:kc:237:VAL:HG23	2.05	0.57
2:ko:188:MET:HA	2:ko:188:MET:HE3	1.87	0.57
2:kp:232:GLU:O	2:kp:237:VAL:HG23	2.05	0.57
2:kq:144:TYR:HB3	2:kq:145:PRO:HD2	1.87	0.57
1:ku:59:VAL:HG13	1:ku:77:GLY:HA3	1.86	0.57
2:kB:188:MET:HA	2:kB:188:MET:HE3	1.87	0.57
2:kG:278:VAL:HG11	2:kG:295:VAL:O	2.05	0.57
2:kH:86:VAL:O	2:kH:202:GLN:N	2.37	0.57
2:kP:219:VAL:HG23	2:kP:259:ILE:HD12	1.85	0.57
1:lk:59:VAL:HG13	1:lk:77:GLY:HA3	1.86	0.57
2:lx:62:GLN:NE2	1:pP:104:CYS:HA	2.19	0.57
2:lF:219:VAL:HG23	2:lF:259:ILE:HD12	1.85	0.57
2:lH:232:GLU:O	2:lH:237:VAL:HG23	2.05	0.57
2:lT:281:GLN:N	2:lT:281:GLN:OE1	2.38	0.57
2:lZ:53:PHE:O	2:lZ:255:ARG:NH2	2.35	0.57
2:mj:5:THR:HG22	1:nu:87:ASP:HB3	1.87	0.57
2:mk:144:TYR:HB3	2:mk:145:PRO:HD2	1.87	0.57
2:mm:83:THR:OG1	2:mm:203:VAL:O	2.21	0.57
2:mw:221:PHE:HD1	2:mw:242:VAL:HG22	1.70	0.57
2:mJ:281:GLN:N	2:mJ:281:GLN:OE1	2.38	0.57
2:mK:63:ARG:CD	2:oq:205:MET:HE2	2.33	0.57
2:mK:134:GLN:OE1	2:mK:134:GLN:N	2.30	0.57
2:mP:62:GLN:NE2	1:nf:104:CYS:HA	2.19	0.57
2:nl:281:GLN:N	2:nl:281:GLN:OE1	2.38	0.57
1:ns:59:VAL:HG13	1:ns:77:GLY:HA3	1.86	0.57
2:nT:86:VAL:O	2:nT:202:GLN:N	2.37	0.57
1:nX:98:LEU:O	1:nX:98:LEU:HD23	2.05	0.57
2:oD:215:SER:O	2:oD:216:ARG:NE	2.38	0.57
2:oD:219:VAL:HG23	2:oD:259:ILE:HD12	1.85	0.57
2:oE:5:THR:OG1	2:oE:6:PRO:HD3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oJ:53:PHE:O	2:oJ:255:ARG:NH2	2.36	0.57
2:pl:53:PHE:O	2:pl:255:ARG:NH2	2.35	0.57
1:pA:100:LYS:HD2	2:pH:197:LYS:HZ2	1.69	0.57
2:pJ:232:GLU:O	2:pJ:237:VAL:HG23	2.05	0.57
3:qg:66:GLN:C	4:qk:194:LEU:HD11	2.29	0.57
3:qh:64:GLY:C	4:qj:10:GLN:HE22	2.13	0.57
1:af:102:GLU:HA	2:oc:198:GLU:CG	2.35	0.57
2:ag:179:LEU:HD22	2:ag:209:TYR:CD2	2.39	0.57
1:as:105:THR:CG2	2:gs:60:ILE:HG23	2.35	0.57
2:az:197:LYS:CE	1:kn:100:LYS:N	2.60	0.57
1:aD:98:LEU:O	1:aD:98:LEU:HD23	2.05	0.57
2:aH:281:GLN:N	2:aH:281:GLN:OE1	2.38	0.57
2:aM:278:VAL:HG11	2:aM:295:VAL:O	2.05	0.57
1:aP:104:CYS:HA	2:cs:62:GLN:NE2	2.19	0.57
2:aV:281:GLN:N	2:aV:281:GLN:OE1	2.38	0.57
2:bb:62:GLN:CD	1:je:104:CYS:HA	2.30	0.57
1:bd:104:CYS:HA	2:je:62:GLN:NE2	2.19	0.57
2:bk:134:GLN:OE1	2:bk:134:GLN:N	2.30	0.57
1:br:63:VAL:HG22	1:br:74:ASP:HB3	1.86	0.57
2:by:198:GLU:CG	1:hR:102:GLU:HA	2.35	0.57
2:bC:278:VAL:HG11	2:bC:295:VAL:O	2.05	0.57
2:bO:107:GLY:HA2	2:bO:184:TYR:HE1	1.66	0.57
1:bW:105:THR:CG2	2:hW:60:ILE:HG23	2.35	0.57
2:bY:179:LEU:HD22	2:bY:209:TYR:CD2	2.39	0.57
2:cc:60:ILE:HG23	1:hQ:105:THR:CG2	2.35	0.57
1:cg:104:CYS:HA	2:jQ:62:GLN:CD	2.30	0.57
2:cm:187:ARG:HD2	2:cm:203:VAL:HG22	1.86	0.57
2:cm:188:MET:HE3	2:cm:188:MET:HA	1.87	0.57
2:cm:281:GLN:N	2:cm:281:GLN:OE1	2.38	0.57
2:cB:221:PHE:HD1	2:cB:242:VAL:HG22	1.70	0.57
2:cF:86:VAL:HG11	2:cF:102:LEU:HD11	1.85	0.57
2:cG:62:GLN:CD	1:pB:104:CYS:HA	2.30	0.57
1:cJ:87:ASP:HB3	2:iK:5:THR:HG22	1.87	0.57
2:dd:63:ARG:HD2	2:eJ:205:MET:HE2	1.84	0.57
2:dJ:278:VAL:HG11	2:dJ:295:VAL:O	2.05	0.57
2:dY:239:PHE:HE1	2:dY:294:LEU:HD22	1.70	0.57
1:ea:63:VAL:HG22	1:ea:74:ASP:HB3	1.86	0.57
1:ea:104:CYS:HA	2:fE:62:GLN:CD	2.30	0.57
1:eq:98:LEU:O	1:eq:98:LEU:HD23	2.05	0.57
2:ev:221:PHE:HD1	2:ev:242:VAL:HG22	1.70	0.57
2:ey:60:ILE:HG23	1:nZ:105:THR:CG2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eA:62:GLN:NE2	1:oZ:104:CYS:HA	2.19	0.57
2:eI:187:ARG:HD2	2:eI:203:VAL:HG22	1.86	0.57
2:eI:281:GLN:OE1	2:eI:281:GLN:N	2.38	0.57
2:fq:62:GLN:CD	1:ia:104:CYS:HA	2.30	0.57
1:fs:63:VAL:HG22	1:fs:74:ASP:HB3	1.86	0.57
1:fG:104:CYS:HA	2:hk:62:GLN:NE2	2.19	0.57
1:fH:99:LEU:CD2	1:gZ:102:GLU:HB2	2.33	0.57
2:fN:121:LEU:O	2:fN:214:ARG:NH2	2.37	0.57
2:fS:239:PHE:HE1	2:fS:294:LEU:HD22	1.70	0.57
1:gi:102:GLU:OE1	2:gq:197:LYS:NZ	2.30	0.57
2:gC:188:MET:HE3	2:gC:188:MET:HA	1.86	0.57
2:gC:281:GLN:N	2:gC:281:GLN:OE1	2.38	0.57
2:gF:86:VAL:HG11	2:gF:102:LEU:CD1	2.33	0.57
2:gH:86:VAL:HG11	2:gH:102:LEU:HD11	1.85	0.57
1:gJ:59:VAL:HG13	1:gJ:77:GLY:HA3	1.86	0.57
1:gY:104:CYS:HA	2:mB:62:GLN:CD	2.30	0.57
1:hc:105:THR:CG2	2:oH:60:ILE:HG23	2.35	0.57
2:he:215:SER:O	2:he:216:ARG:NE	2.38	0.57
2:hg:5:THR:HG22	1:mq:87:ASP:HB3	1.87	0.57
2:hK:61:GLY:HA3	1:IN:103:ARG:HD2	1.85	0.57
1:hL:59:VAL:HG13	1:hL:77:GLY:HA3	1.86	0.57
2:hY:53:PHE:O	2:hY:255:ARG:NH2	2.35	0.57
2:ig:215:SER:O	2:ig:216:ARG:NE	2.38	0.57
2:im:239:PHE:HE1	2:im:294:LEU:HD22	1.69	0.57
2:iu:187:ARG:HD2	2:iu:203:VAL:HG22	1.86	0.57
2:iJ:5:THR:OG1	2:iJ:6:PRO:HD3	2.04	0.57
2:iO:62:GLN:NE2	1:pn:104:CYS:HA	2.19	0.57
2:iW:281:GLN:OE1	2:iW:281:GLN:N	2.38	0.57
2:iY:232:GLU:O	2:iY:237:VAL:HG23	2.05	0.57
2:jM:281:GLN:N	2:jM:281:GLN:OE1	2.38	0.57
2:ka:215:SER:O	2:ka:216:ARG:NE	2.38	0.57
2:kg:62:GLN:CD	1:mR:104:CYS:HA	2.30	0.57
1:kk:98:LEU:O	1:kk:98:LEU:HD23	2.05	0.57
2:kC:221:PHE:HD1	2:kC:242:VAL:HG22	1.70	0.57
1:kI:100:LYS:HD2	2:kP:197:LYS:HZ2	1.70	0.57
1:kW:100:LYS:HD2	2:mX:197:LYS:HZ2	1.70	0.57
2:ld:197:LYS:HZ2	1:mQ:100:LYS:HD2	1.70	0.57
2:ld:215:SER:O	2:ld:216:ARG:NE	2.38	0.57
2:lf:5:THR:HG22	1:oy:87:ASP:HB3	1.87	0.57
2:lh:219:VAL:HG23	2:lh:259:ILE:HD12	1.86	0.57
2:lx:62:GLN:CD	1:pP:104:CYS:HA	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IF:281:GLN:N	2:IF:281:GLN:OE1	2.38	0.57
2:IL:62:GLN:NE2	1:ox:104:CYS:HA	2.19	0.57
1:IP:98:LEU:O	1:IP:98:LEU:HD23	2.05	0.57
2:IT:150:THR:OG1	2:IT:220:GLY:O	2.18	0.57
2:IY:83:THR:OG1	2:IY:203:VAL:O	2.21	0.57
2:mv:215:SER:O	2:mv:216:ARG:NE	2.38	0.57
2:mx:232:GLU:O	2:mx:237:VAL:HG23	2.05	0.57
1:mF:98:LEU:O	1:mF:98:LEU:HD23	2.05	0.57
2:mN:60:ILE:HG23	1:OP:105:THR:CG2	2.35	0.57
2:mN:219:VAL:HG23	2:mN:259:ILE:HD12	1.86	0.57
2:nl:187:ARG:HD2	2:nl:203:VAL:HG22	1.86	0.57
2:nm:58:GLU:OE1	2:OE:78:LYS:NZ	2.27	0.57
2:no:144:TYR:HB3	2:no:145:PRO:HD2	1.86	0.57
1:nv:98:LEU:O	1:nv:98:LEU:HD23	2.05	0.57
2:nz:281:GLN:OE1	2:nz:281:GLN:N	2.38	0.57
2:nD:5:THR:O	2:nD:5:THR:HG23	2.03	0.57
2:OW:83:THR:OG1	2:OW:203:VAL:O	2.21	0.57
2:pH:187:ARG:HD2	2:pH:203:VAL:HG22	1.86	0.57
2:pI:5:THR:OG1	2:pI:6:PRO:HD3	2.04	0.57
6:qG:112:LEU:HD21	6:qI:58:LEU:CD1	0.94	0.57
2:ag:187:ARG:HD2	2:ag:203:VAL:HG22	1.86	0.57
2:ak:107:GLY:CA	2:ak:184:TYR:CE1	2.85	0.57
2:au:179:LEU:HD22	2:au:209:TYR:CD2	2.39	0.57
2:av:232:GLU:O	2:av:237:VAL:HG23	2.05	0.57
2:az:239:PHE:HE1	2:az:294:LEU:HD22	1.69	0.57
2:aL:219:VAL:HG23	2:aL:259:ILE:HD12	1.86	0.57
1:bG:87:ASP:HB3	2:gq:5:THR:HG22	1.87	0.57
1:bK:69:ALA:C	6:qw:116:GLY:HA2	2.29	0.57
2:bM:5:THR:HG22	1:gL:87:ASP:HB3	1.87	0.57
2:bQ:62:GLN:CD	1:gi:104:CYS:HA	2.30	0.57
1:cf:100:LYS:CE	1:iH:100:LYS:HZ1	2.18	0.57
1:ck:105:THR:CG2	2:lv:60:ILE:HG23	2.35	0.57
2:cA:197:LYS:HZ2	1:pm:100:LYS:HD2	1.70	0.57
2:cA:281:GLN:N	2:cA:281:GLN:OE1	2.38	0.57
2:cQ:5:THR:HG22	1:po:87:ASP:HB3	1.87	0.57
1:cW:63:VAL:HG22	1:cW:74:ASP:HB3	1.86	0.57
2:dg:107:GLY:CA	2:dg:184:TYR:CE1	2.85	0.57
1:dA:99:LEU:CA	2:gE:197:LYS:HZ1	2.08	0.57
1:dM:104:CYS:HA	2:pN:62:GLN:CD	2.30	0.57
2:dU:5:THR:HG22	1:pC:87:ASP:HB3	1.87	0.57
1:ea:104:CYS:HA	2:fE:62:GLN:NE2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eb:87:ASP:HB3	2:od:5:THR:HG22	1.87	0.57
2:ek:60:ILE:HG23	1:mf:105:THR:CG2	2.35	0.57
2:ek:107:GLY:CA	2:ek:184:TYR:CE1	2.85	0.57
2:ek:219:VAL:HG23	2:ek:259:ILE:HD12	1.86	0.57
2:ey:5:THR:HG23	2:ey:5:THR:O	2.03	0.57
1:eB:100:LYS:HD2	2:gC:197:LYS:HZ2	1.70	0.57
1:eC:63:VAL:HG22	1:eC:74:ASP:HB3	1.86	0.57
1:eH:102:GLU:HA	2:gp:198:GLU:CG	2.35	0.57
2:fl:221:PHE:HD1	2:fl:242:VAL:HG22	1.70	0.57
2:fM:219:VAL:HG23	2:fM:259:ILE:HD12	1.85	0.57
2:fN:198:GLU:CG	1:fZ:102:GLU:HA	2.35	0.57
2:fP:144:TYR:HB3	2:fP:145:PRO:HD2	1.87	0.57
2:fR:278:VAL:HG11	2:fR:295:VAL:O	2.05	0.57
1:fT:100:LYS:HD2	2:ga:197:LYS:HZ2	1.70	0.57
2:gb:205:MET:HE2	2:ih:63:ARG:CD	2.33	0.57
2:gb:221:PHE:HD1	2:gb:242:VAL:HG22	1.70	0.57
1:gh:86:SER:O	1:gh:90:LEU:N	2.38	0.57
2:gE:232:GLU:O	2:gE:237:VAL:HG23	2.05	0.57
2:gI:86:VAL:O	2:gI:202:GLN:N	2.37	0.57
1:hl:100:LYS:CE	1:kA:100:LYS:HZ1	2.18	0.57
2:hw:12:LEU:HD12	2:hw:12:LEU:O	2.05	0.57
1:hy:86:SER:O	1:hy:90:LEU:N	2.38	0.57
1:hB:99:LEU:C	2:IV:197:LYS:NZ	2.58	0.57
1:hD:105:THR:CG2	2:kT:60:ILE:HG23	2.35	0.57
2:hF:188:MET:HE3	2:hF:188:MET:HA	1.87	0.57
2:hS:188:MET:HA	2:hS:188:MET:HE3	1.87	0.57
2:ik:60:ILE:HG23	1:nx:105:THR:CG2	2.35	0.57
1:io:104:CYS:HA	2:qb:62:GLN:NE2	2.19	0.57
2:iw:5:THR:HG22	1:pQ:87:ASP:HB3	1.87	0.57
2:iy:5:THR:O	2:iy:5:THR:HG23	2.03	0.57
2:iz:278:VAL:HG11	2:iz:295:VAL:O	2.05	0.57
2:iW:187:ARG:HD2	2:iW:203:VAL:HG22	1.86	0.57
2:IX:78:LYS:NZ	2:jl:58:GLU:OE1	2.27	0.57
2:ja:219:VAL:HG23	2:ja:259:ILE:HD12	1.86	0.57
1:js:63:VAL:HG22	1:js:74:ASP:HB3	1.86	0.57
2:jz:198:GLU:CG	1:pU:102:GLU:HA	2.35	0.57
2:jB:274:ALA:HB1	2:jB:297:VAL:HG21	1.85	0.57
2:jE:61:GLY:HA3	1:jU:103:ARG:HD2	1.85	0.57
2:jE:86:VAL:O	2:jE:202:GLN:N	2.37	0.57
2:jS:62:GLN:CD	1:oj:104:CYS:HA	2.30	0.57
1:jY:105:THR:CG2	2:pZ:60:ILE:HG23	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ka:281:GLN:OE1	2:ka:281:GLN:N	2.38	0.57
1:kv:104:CYS:HA	2:lZ:62:GLN:NE2	2.19	0.57
1:kv:104:CYS:HA	2:lZ:62:GLN:CD	2.30	0.57
2:kB:43:ALA:O	2:kB:44:SER:OG	2.20	0.57
2:kB:215:SER:O	2:kB:216:ARG:NE	2.38	0.57
1:kW:59:VAL:HG13	1:kW:77:GLY:HA3	1.86	0.57
1:lk:86:SER:O	1:lk:90:LEU:N	2.38	0.57
1:lm:87:ASP:HB3	2:pX:5:THR:HG22	1.87	0.57
2:lK:278:VAL:HG11	2:lK:295:VAL:O	2.04	0.57
2:lW:86:VAL:HG11	2:lW:102:LEU:CD1	2.33	0.57
1:mb:63:VAL:HG22	1:mb:74:ASP:HB3	1.86	0.57
1:mb:104:CYS:HA	2:nF:62:GLN:CD	2.30	0.57
2:mm:12:LEU:HD12	2:mm:12:LEU:O	2.05	0.57
2:mv:179:LEU:HD22	2:mv:209:TYR:CD2	2.39	0.57
2:mv:219:VAL:HG23	2:mv:259:ILE:HD12	1.85	0.57
2:mJ:179:LEU:HD22	2:mJ:209:TYR:CD2	2.39	0.57
2:mL:232:GLU:O	2:mL:237:VAL:HG23	2.05	0.57
2:mP:53:PHE:O	2:mP:255:ARG:NH2	2.36	0.57
2:mY:134:GLN:OE1	2:mY:134:GLN:N	2.30	0.57
1:nG:86:SER:O	1:nG:90:LEU:N	2.38	0.57
1:nH:104:CYS:HA	2:pl:62:GLN:NE2	2.19	0.57
2:nN:179:LEU:HD22	2:nN:209:TYR:CD2	2.39	0.57
2:nP:5:THR:HG22	1:pa:87:ASP:HB3	1.87	0.57
2:ov:62:GLN:CD	1:oL:104:CYS:HA	2.30	0.57
2:oF:232:GLU:O	2:oF:237:VAL:HG23	2.05	0.57
2:oX:36:THR:O	2:oX:175:THR:OG1	2.18	0.57
1:oY:86:SER:O	1:oY:90:LEU:N	2.38	0.57
2:pg:121:LEU:O	2:pg:214:ARG:NH2	2.37	0.57
1:pn:63:VAL:HG22	1:pn:74:ASP:HB3	1.86	0.57
2:pz:239:PHE:HE1	2:pz:294:LEU:HD22	1.70	0.57
1:pB:63:VAL:HG22	1:pB:74:ASP:HB3	1.86	0.57
2:pH:281:GLN:N	2:pH:281:GLN:OE1	2.38	0.57
2:pK:274:ALA:HB1	2:pK:297:VAL:HG21	1.85	0.57
3:qe:66:GLN:C	4:qm:8:TYR:CD2	2.83	0.57
1:ac:98:LEU:O	1:ac:98:LEU:HD23	2.05	0.56
2:ag:188:MET:HA	2:ag:188:MET:HE3	1.87	0.56
2:ai:5:THR:HG22	1:ng:87:ASP:HB3	1.87	0.56
1:aA:86:SER:O	1:aA:90:LEU:N	2.38	0.56
1:aC:87:ASP:HB3	2:ht:5:THR:HG22	1.87	0.56
2:aJ:5:THR:HG22	1:kK:87:ASP:HB3	1.87	0.56
1:aP:63:VAL:HG22	1:aP:74:ASP:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aT:105:THR:CG2	2:px:60:ILE:HG23	2.35	0.56
1:aU:102:GLU:HA	2:iJ:198:GLU:CG	2.35	0.56
2:bb:239:PHE:HE1	2:bb:294:LEU:HD22	1.69	0.56
1:bs:87:ASP:HB3	2:ca:5:THR:HG22	1.87	0.56
2:bC:12:LEU:O	2:bC:12:LEU:HD12	2.05	0.56
2:bC:86:VAL:HG11	2:bC:102:LEU:HD11	1.86	0.56
2:bL:187:ARG:HD2	2:bL:203:VAL:HG22	1.86	0.56
2:bO:60:ILE:HG23	1:lR:105:THR:CG2	2.35	0.56
2:bP:12:LEU:HD12	2:bP:12:LEU:O	2.05	0.56
2:bP:278:VAL:HG11	2:bP:295:VAL:O	2.05	0.56
1:bX:98:LEU:HD13	2:bZ:64:VAL:HG22	1.87	0.56
2:cd:278:VAL:HG11	2:cd:295:VAL:O	2.05	0.56
2:cr:12:LEU:HD12	2:cr:12:LEU:O	2.05	0.56
1:cv:87:ASP:HB3	2:pJ:5:THR:HG22	1.87	0.56
1:cH:86:SER:O	1:cH:90:LEU:N	2.38	0.56
2:cQ:232:GLU:O	2:cQ:237:VAL:HG23	2.05	0.56
2:cU:62:GLN:CD	1:iC:104:CYS:HA	2.30	0.56
1:cW:104:CYS:HA	2:gI:62:GLN:CD	2.30	0.56
2:ds:232:GLU:O	2:ds:237:VAL:HG23	2.05	0.56
2:dF:221:PHE:HD1	2:dF:242:VAL:HG22	1.70	0.56
2:dI:219:VAL:HG23	2:dI:259:ILE:HD12	1.86	0.56
2:dK:53:PHE:O	2:dK:255:ARG:NH2	2.35	0.56
2:dV:144:TYR:HB3	2:dV:145:PRO:HD2	1.86	0.56
2:ei:232:GLU:O	2:ei:237:VAL:HG23	2.05	0.56
1:eo:104:CYS:HA	2:nT:62:GLN:CD	2.30	0.56
1:eo:104:CYS:HA	2:nT:62:GLN:NE2	2.19	0.56
1:eH:98:LEU:HD13	2:eJ:64:VAL:HG22	1.87	0.56
2:eK:5:THR:HG22	1:ib:87:ASP:HB3	1.87	0.56
2:eM:219:VAL:HG23	2:eM:259:ILE:HD12	1.86	0.56
2:fb:278:VAL:HG11	2:fb:295:VAL:O	2.05	0.56
2:fk:215:SER:O	2:fk:216:ARG:NE	2.38	0.56
2:fm:232:GLU:O	2:fm:237:VAL:HG23	2.05	0.56
2:fy:93:ASP:OD2	2:nR:209:TYR:OH	2.22	0.56
1:fG:63:VAL:HG22	1:fG:74:ASP:HB3	1.86	0.56
2:fQ:5:THR:HG23	2:fQ:5:THR:O	2.03	0.56
2:fR:12:LEU:HD12	2:fR:12:LEU:O	2.05	0.56
1:fT:86:SER:O	1:fT:90:LEU:N	2.38	0.56
2:gf:12:LEU:O	2:gf:12:LEU:HD12	2.05	0.56
2:gf:278:VAL:HG11	2:gf:295:VAL:O	2.05	0.56
1:gi:63:VAL:HG22	1:gi:74:ASP:HB3	1.86	0.56
2:go:179:LEU:HD22	2:go:209:TYR:CD2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gQ:197:LYS:HZ2	1:in:100:LYS:HD2	1.70	0.56
1:gZ:99:LEU:CD2	1:mq:102:GLU:HB2	2.33	0.56
2:hi:219:VAL:HG23	2:hi:259:ILE:HD12	1.86	0.56
1:hl:100:LYS:CD	1:kA:100:LYS:HZ1	2.18	0.56
1:hZ:104:CYS:HA	2:kH:62:GLN:NE2	2.19	0.56
2:hI:107:GLY:CA	2:hI:184:TYR:CE1	2.85	0.56
2:hJ:278:VAL:HG11	2:hJ:295:VAL:O	2.05	0.56
2:hK:62:GLN:NE2	1:lN:104:CYS:HA	2.19	0.56
2:hK:181:PRO:C	5:qt:177:SER:HA	2.31	0.56
2:hS:281:GLN:OE1	2:hS:281:GLN:N	2.38	0.56
2:hX:12:LEU:HD12	2:hX:12:LEU:O	2.05	0.56
2:ig:187:ARG:HD2	2:ig:203:VAL:HG22	1.86	0.56
2:ii:232:GLU:O	2:ii:237:VAL:HG23	2.05	0.56
1:ip:87:ASP:HB3	2:lt:5:THR:HG22	1.87	0.56
1:it:102:GLU:HA	2:jN:198:GLU:CG	2.35	0.56
2:iu:281:GLN:OE1	2:iu:281:GLN:N	2.38	0.56
2:iW:219:VAL:HG23	2:iW:259:ILE:HD12	1.85	0.56
2:jb:12:LEU:HD12	2:jb:12:LEU:O	2.05	0.56
2:jm:232:GLU:O	2:jm:237:VAL:HG23	2.05	0.56
1:jt:99:LEU:CD2	1:mS:102:GLU:HB2	2.33	0.56
1:jx:102:GLU:HA	2:le:198:GLU:CG	2.35	0.56
2:jC:60:ILE:HG23	1:lD:105:THR:CG2	2.35	0.56
1:jH:87:ASP:HB3	2:or:5:THR:HG22	1.87	0.56
1:jH:102:GLU:OE1	1:ok:99:LEU:CA	2.28	0.56
1:jL:102:GLU:HA	2:pI:198:GLU:CG	2.35	0.56
1:jT:59:VAL:HG13	1:jT:77:GLY:HA3	1.86	0.56
2:kg:239:PHE:HE1	2:kg:294:LEU:HD22	1.69	0.56
2:ko:32:LEU:HD21	5:qF:178:PRO:HD2	1.86	0.56
2:ks:278:VAL:HG11	2:ks:295:VAL:O	2.05	0.56
2:kt:108:ARG:C	5:qD:178:PRO:CG	2.75	0.56
2:kD:278:VAL:HG11	2:kD:295:VAL:O	2.03	0.56
2:kH:239:PHE:HE1	2:kH:294:LEU:HD22	1.70	0.56
1:kX:104:CYS:HA	2:oJ:62:GLN:NE2	2.19	0.56
1:lb:105:THR:CG2	2:np:60:ILE:HG23	2.35	0.56
2:lh:5:THR:HG23	2:lh:5:THR:O	2.03	0.56
2:lh:107:GLY:CA	2:lh:184:TYR:CE1	2.85	0.56
2:lj:239:PHE:HE1	2:lj:294:LEU:HD22	1.69	0.56
2:IT:219:VAL:HG23	2:IT:259:ILE:HD12	1.85	0.56
2:IV:232:GLU:O	2:IV:237:VAL:HG23	2.05	0.56
2:IY:278:VAL:HG11	2:IY:295:VAL:O	2.05	0.56
1:md:98:LEU:O	1:md:98:LEU:HD23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ml:107:GLY:CA	2:ml:184:TYR:CE1	2.86	0.56
2:mw:205:MET:HE2	2:oe:63:ARG:CD	2.34	0.56
2:mz:219:VAL:HG23	2:mz:259:ILE:HD12	1.86	0.56
1:mC:86:SER:O	1:mC:90:LEU:N	2.38	0.56
1:nM:98:LEU:HD13	2:nO:64:VAL:HG22	1.87	0.56
2:nO:121:LEU:O	2:nO:214:ARG:NH2	2.37	0.56
2:og:278:VAL:HG11	2:og:295:VAL:O	2.05	0.56
1:oo:102:GLU:HA	2:pW:198:GLU:CG	2.35	0.56
2:ou:12:LEU:O	2:ou:12:LEU:HD12	2.05	0.56
2:oW:278:VAL:HG11	2:oW:295:VAL:O	2.05	0.56
2:pk:12:LEU:O	2:pk:12:LEU:HD12	2.05	0.56
2:pk:278:VAL:HG11	2:pk:295:VAL:O	2.05	0.56
1:pp:98:LEU:O	1:pp:98:LEU:HD23	2.05	0.56
2:pw:86:VAL:HG11	2:pw:102:LEU:CD1	2.33	0.56
2:pH:215:SER:O	2:pH:216:ARG:NE	2.38	0.56
1:pU:98:LEU:HD13	2:pW:64:VAL:HG22	1.87	0.56
2:pV:215:SER:O	2:pV:216:ARG:NE	2.38	0.56
2:qa:12:LEU:O	2:qa:12:LEU:HD12	2.05	0.56
2:qa:86:VAL:HG11	2:qa:102:LEU:HD11	1.86	0.56
2:qa:278:VAL:HG11	2:qa:295:VAL:O	2.05	0.56
3:qd:68:ALA:CA	4:qn:8:TYR:CZ	2.88	0.56
3:qf:64:GLY:C	4:ql:10:GLN:HE22	2.13	0.56
3:qg:14:LEU:HD23	3:qg:114:PRO:HB3	1.87	0.56
3:qh:65:GLY:O	4:qj:8:TYR:CE2	2.58	0.56
1:ab:87:ASP:HB3	2:mL:5:THR:HG22	1.87	0.56
2:aH:188:MET:HA	2:aH:188:MET:HE3	1.87	0.56
2:aM:12:LEU:O	2:aM:12:LEU:HD12	2.05	0.56
2:aN:62:GLN:CD	1:hm:104:CYS:HA	2.30	0.56
2:ba:278:VAL:HG11	2:ba:295:VAL:O	2.05	0.56
1:bc:100:LYS:CE	1:bi:100:LYS:HZ1	2.18	0.56
2:bj:215:SER:O	2:bj:216:ARG:NE	2.38	0.56
2:bx:215:SER:O	2:bx:216:ARG:NE	2.38	0.56
2:bz:232:GLU:O	2:bz:237:VAL:HG23	2.05	0.56
2:bA:160:PHE:N	2:bA:304:ASN:OD1	2.39	0.56
1:bF:104:CYS:HA	2:gW:62:GLN:NE2	2.19	0.56
2:bL:31:TYR:OH	5:qr:176:ASN:ND2	2.38	0.56
2:bL:281:GLN:N	2:bL:281:GLN:OE1	2.38	0.56
2:bM:197:LYS:HZ2	1:gM:99:LEU:C	2.12	0.56
2:co:5:THR:HG22	1:jf:87:ASP:HB3	1.87	0.56
2:cq:60:ILE:HG23	1:lp:105:THR:CG2	2.35	0.56
2:cq:219:VAL:HG23	2:cq:259:ILE:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cG:239:PHE:HE1	2:cG:294:LEU:HD22	1.69	0.56
2:cS:60:ILE:HG23	1:pF:105:THR:CG2	2.35	0.56
1:cX:87:ASP:HB3	2:dG:5:THR:HG22	1.87	0.56
1:db:102:GLU:HA	2:eJ:198:GLU:CG	2.35	0.56
1:dz:87:ASP:HB3	2:gE:5:THR:HG22	1.87	0.56
2:dE:179:LEU:HD22	2:dE:209:TYR:CD2	2.39	0.56
2:dE:215:SER:O	2:dE:216:ARG:NE	2.38	0.56
2:dH:144:TYR:HB3	2:dH:145:PRO:HD2	1.87	0.56
1:dO:98:LEU:O	1:dO:98:LEU:HD23	2.05	0.56
2:dV:160:PHE:N	2:dV:304:ASN:OD1	2.39	0.56
2:eg:188:MET:HA	2:eg:188:MET:HE3	1.87	0.56
1:es:102:GLU:CG	1:nV:99:LEU:CD1	2.84	0.56
2:ew:232:GLU:O	2:ew:237:VAL:HG23	2.05	0.56
1:eC:104:CYS:HA	2:im:62:GLN:NE2	2.19	0.56
1:eU:105:THR:CG2	2:iM:60:ILE:HG23	2.35	0.56
2:fl:121:LEU:O	2:fl:214:ARG:NH2	2.37	0.56
2:fy:179:LEU:HD22	2:fy:209:TYR:CD2	2.39	0.56
2:ga:215:SER:O	2:ga:216:ARG:NE	2.38	0.56
2:gc:232:GLU:O	2:gc:237:VAL:HG23	2.05	0.56
2:gs:107:GLY:HA2	2:gs:184:TYR:HE1	1.66	0.56
2:gu:62:GLN:CD	1:gK:104:CYS:HA	2.30	0.56
2:gu:62:GLN:NE2	1:gK:104:CYS:HA	2.19	0.56
2:hi:60:ILE:HG23	1:oB:105:THR:CG2	2.35	0.56
2:hk:165:ASP:HB3	2:hk:173:LEU:HD13	1.87	0.56
2:hX:62:GLN:CD	1:kJ:104:CYS:HA	2.30	0.56
1:hZ:99:LEU:CD1	1:kN:102:GLU:CG	2.84	0.56
2:hF:215:SER:O	2:hF:216:ARG:NE	2.38	0.56
2:hK:86:VAL:O	2:hK:202:GLN:N	2.37	0.56
2:hK:100:GLY:O	5:qt:54:GLN:CD	2.47	0.56
1:ie:105:THR:CG2	2:nD:60:ILE:HG23	2.35	0.56
1:iq:98:LEU:O	1:iq:98:LEU:HD23	2.05	0.56
2:iu:188:MET:HA	2:iu:188:MET:HE3	1.87	0.56
2:iv:121:LEU:O	2:iv:214:ARG:NH2	2.37	0.56
2:iM:219:VAL:HG23	2:iM:259:ILE:HD12	1.86	0.56
1:js:103:ARG:HD2	2:nd:61:GLY:HA3	1.85	0.56
2:jz:78:LYS:NZ	2:pW:58:GLU:OE1	2.27	0.56
2:jC:107:GLY:CA	2:jC:184:TYR:CE1	2.85	0.56
2:kr:107:GLY:HA2	2:kr:184:TYR:HE1	1.66	0.56
2:kU:12:LEU:HD12	2:kU:12:LEU:O	2.05	0.56
2:kV:239:PHE:HE1	2:kV:294:LEU:HD22	1.69	0.56
1:lc:102:GLU:HA	2:mK:198:GLU:CG	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lg:144:TYR:HB3	2:lg:145:PRO:HD2	1.86	0.56
1:lz:63:VAL:HG22	1:lz:74:ASP:HB3	1.86	0.56
2:lf:197:LYS:HZ2	1:ne:100:LYS:HD2	1.69	0.56
2:il:239:PHE:HE1	2:il:294:LEU:HD22	1.70	0.56
2:mh:215:SER:O	2:mh:216:ARG:NE	2.38	0.56
2:mO:278:VAL:HG11	2:mO:295:VAL:O	2.05	0.56
1:mQ:59:VAL:HG13	1:mQ:77:GLY:HA3	1.86	0.56
1:mR:63:VAL:HG22	1:mR:74:ASP:HB3	1.86	0.56
2:mX:281:GLN:OE1	2:mX:281:GLN:N	2.38	0.56
2:nl:179:LEU:HD22	2:nl:209:TYR:CD2	2.39	0.56
2:np:219:VAL:HG23	2:np:259:ILE:HD12	1.86	0.56
2:nF:36:THR:O	2:nF:175:THR:OG1	2.18	0.56
2:nP:232:GLU:O	2:nP:237:VAL:HG23	2.05	0.56
1:nU:86:SER:O	1:nU:90:LEU:N	2.38	0.56
2:ob:281:GLN:OE1	2:ob:281:GLN:N	2.38	0.56
2:of:219:VAL:HG23	2:of:259:ILE:HD12	1.86	0.56
2:oe:121:LEU:O	2:oe:214:ARG:NH2	2.37	0.56
2:pf:179:LEU:HD22	2:pf:209:TYR:CD2	2.39	0.56
2:pj:219:VAL:HG23	2:pj:259:ILE:HD12	1.86	0.56
2:pY:160:PHE:N	2:pY:304:ASN:OD1	2.39	0.56
3:qe:92:GLU:O	6:qw:27:LYS:NZ	2.38	0.56
4:qm:178:PHE:CE1	4:qn:39:LEU:HD23	2.41	0.56
5:qt:245:ASP:CG	6:qw:121:VAL:HG21	2.30	0.56
5:qv:245:ASP:CG	6:qy:121:VAL:HG21	2.30	0.56
6:qA:112:LEU:HD21	6:qC:58:LEU:CD1	0.94	0.56
1:aa:99:LEU:CD1	1:fw:102:GLU:CG	2.84	0.56
1:af:98:LEU:HD13	2:ah:64:VAL:HG22	1.87	0.56
2:ag:197:LYS:HZ2	1:oi:100:LYS:HD2	1.70	0.56
2:ak:219:VAL:HG23	2:ak:259:ILE:HD12	1.86	0.56
2:al:12:LEU:HD12	2:al:12:LEU:O	2.05	0.56
1:ao:104:CYS:HA	2:hY:62:GLN:CD	2.30	0.56
1:ap:87:ASP:HB3	2:ds:5:THR:HG22	1.87	0.56
2:aw:160:PHE:N	2:aw:304:ASN:OD1	2.39	0.56
1:aB:103:ARG:HD2	2:kV:61:GLY:HA3	1.85	0.56
2:aH:93:ASP:OD2	2:kg:209:TYR:OH	2.22	0.56
2:aI:198:GLU:CG	1:iV:102:GLU:HA	2.35	0.56
1:aQ:87:ASP:HB3	2:jm:5:THR:HG22	1.87	0.56
1:be:87:ASP:HB3	2:kp:5:THR:HG22	1.87	0.56
1:bh:102:GLU:CG	1:je:99:LEU:CD1	2.84	0.56
2:bj:187:ARG:HD2	2:bj:203:VAL:HG22	1.87	0.56
2:bl:5:THR:HG22	1:iR:87:ASP:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bn:60:ILE:HG23	1:ji:105:THR:CG2	2.35	0.56
1:bv:105:THR:CG2	2:dI:60:ILE:HG23	2.35	0.56
2:by:106:MET:HG3	2:by:184:TYR:CD1	2.36	0.56
2:bB:60:ILE:HG23	1:dC:105:THR:CG2	2.35	0.56
2:bD:36:THR:O	2:bD:175:THR:OG1	2.18	0.56
1:bF:99:LEU:CD1	1:lR:102:GLU:CG	2.84	0.56
1:bF:104:CYS:HA	2:gW:62:GLN:CD	2.30	0.56
2:bQ:53:PHE:O	2:bQ:255:ARG:NH2	2.35	0.56
2:bZ:198:GLU:CG	1:iH:102:GLU:HA	2.35	0.56
2:cd:83:THR:OG1	2:cd:203:VAL:O	2.21	0.56
1:cf:100:LYS:CD	1:iH:100:LYS:HZ1	2.18	0.56
1:ck:102:GLU:CG	1:ll:99:LEU:CD1	2.84	0.56
1:cl:98:LEU:HD13	2:cn:64:VAL:HG22	1.87	0.56
2:cm:197:LYS:HZ2	1:iB:100:LYS:HD2	1.70	0.56
2:cp:160:PHE:N	2:cp:304:ASN:OD1	2.39	0.56
2:cq:107:GLY:HA2	2:cq:184:TYR:HE1	1.66	0.56
2:cB:198:GLU:CG	1:cN:102:GLU:HA	2.35	0.56
2:cD:86:VAL:HG11	2:cD:102:LEU:CD1	2.33	0.56
2:cE:5:THR:HG23	2:cE:5:THR:O	2.03	0.56
1:cN:98:LEU:HD13	2:cP:64:VAL:HG22	1.87	0.56
2:cS:5:THR:O	2:cS:5:THR:HG23	2.03	0.56
2:dq:188:MET:HA	2:dq:188:MET:HE3	1.87	0.56
2:du:219:VAL:HG23	2:du:259:ILE:HD12	1.86	0.56
2:dW:62:GLN:NE2	1:hM:104:CYS:HA	2.19	0.56
1:dx:86:SER:O	1:dx:90:LEU:N	2.38	0.56
2:dG:232:GLU:O	2:dG:237:VAL:HG23	2.05	0.56
2:dK:62:GLN:CD	1:gw:104:CYS:HA	2.30	0.56
2:dK:197:LYS:CE	1:pe:100:LYS:N	2.60	0.56
1:dR:102:GLU:HA	2:oS:198:GLU:CG	2.35	0.56
1:ec:98:LEU:O	1:ec:98:LEU:HD23	2.05	0.56
2:em:62:GLN:CD	1:nV:104:CYS:HA	2.30	0.56
2:em:62:GLN:NE2	1:nV:104:CYS:HA	2.19	0.56
1:eG:102:GLU:CG	1:gK:99:LEU:CD1	2.84	0.56
2:eN:278:VAL:HG11	2:eN:295:VAL:O	2.05	0.56
2:eO:165:ASP:HB3	2:eO:173:LEU:HD13	1.88	0.56
1:eQ:99:LEU:CD1	1:iG:102:GLU:CG	2.84	0.56
2:eY:232:GLU:O	2:eY:237:VAL:HG23	2.05	0.56
2:fa:60:ILE:HG23	1:iG:105:THR:CG2	2.35	0.56
2:fa:107:GLY:CA	2:fa:184:TYR:CE1	2.85	0.56
2:fB:160:PHE:N	2:fB:304:ASN:OD1	2.39	0.56
1:fF:59:VAL:HG13	1:fF:77:GLY:HA3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fM:188:MET:HE3	2:fM:188:MET:HA	1.87	0.56
2:fM:281:GLN:N	2:fM:281:GLN:OE1	2.38	0.56
2:gd:86:VAL:HG11	2:gd:102:LEU:CD1	2.33	0.56
2:gg:86:VAL:O	2:gg:202:GLN:N	2.37	0.56
1:gk:98:LEU:O	1:gk:98:LEU:HD23	2.05	0.56
2:gq:232:GLU:O	2:gq:237:VAL:HG23	2.05	0.56
2:gr:144:TYR:HB3	2:gr:145:PRO:HD2	1.87	0.56
2:gs:219:VAL:HG23	2:gs:259:ILE:HD12	1.86	0.56
1:gv:59:VAL:HG13	1:gv:77:GLY:HA3	1.86	0.56
2:gD:5:THR:OG1	2:gD:6:PRO:HD3	2.04	0.56
1:gK:63:VAL:HG22	1:gK:74:ASP:HB3	1.86	0.56
2:gQ:43:ALA:O	2:gQ:44:SER:OG	2.20	0.56
2:gS:232:GLU:O	2:gS:237:VAL:HG23	2.05	0.56
2:gU:219:VAL:HG23	2:gU:259:ILE:HD12	1.86	0.56
2:he:188:MET:HE3	2:he:188:MET:HA	1.87	0.56
2:hF:58:GLU:OE1	2:lG:78:LYS:NZ	2.27	0.56
2:hi:5:THR:HG23	2:hi:5:THR:O	2.03	0.56
2:hs:179:LEU:HD22	2:hs:209:TYR:CD2	2.39	0.56
2:hx:95:ASN:H	5:qz:47:ARG:HH21	1.52	0.56
2:hF:92:GLU:OE2	5:qx:178:PRO:HD2	2.05	0.56
2:hG:5:THR:HG22	1:kw:87:ASP:HB3	1.87	0.56
2:hH:86:VAL:HG11	2:hH:102:LEU:CD1	2.33	0.56
2:hX:278:VAL:HG11	2:hX:295:VAL:O	2.05	0.56
2:hY:86:VAL:O	2:hY:202:GLN:N	2.37	0.56
2:il:86:VAL:HG11	2:il:102:LEU:HD11	1.86	0.56
2:il:171:TYR:OH	2:il:175:THR:OG1	2.12	0.56
2:im:53:PHE:O	2:im:255:ARG:NH2	2.35	0.56
1:is:105:THR:CG2	2:ot:60:ILE:HG23	2.35	0.56
1:it:98:LEU:HD13	2:iv:64:VAL:HG22	1.87	0.56
2:iu:215:SER:O	2:iu:216:ARG:NE	2.38	0.56
1:iH:98:LEU:HD13	2:iJ:64:VAL:HG22	1.87	0.56
2:iL:187:ARG:HD2	2:iI:203:VAL:HG22	1.86	0.56
2:iL:160:PHE:N	2:iL:304:ASN:OD1	2.39	0.56
2:iW:215:SER:O	2:iW:216:ARG:NE	2.38	0.56
2:iZ:160:PHE:N	2:iZ:304:ASN:OD1	2.39	0.56
1:jj:98:LEU:HD13	2:jl:64:VAL:HG22	1.87	0.56
2:jk:215:SER:O	2:jk:216:ARG:NE	2.38	0.56
1:jx:98:LEU:HD13	2:jz:64:VAL:HG22	1.87	0.56
1:jx:100:LYS:N	2:lj:197:LYS:CE	2.60	0.56
2:jy:281:GLN:N	2:jy:281:GLN:OE1	2.38	0.56
2:jA:232:GLU:O	2:jA:237:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jE:62:GLN:NE2	1:jU:104:CYS:HA	2.19	0.56
1:jF:100:LYS:CG	1:pU:100:LYS:HZ3	1.99	0.56
1:jG:104:CYS:HA	2:oX:62:GLN:CD	2.30	0.56
1:jL:98:LEU:HD13	2:jN:64:VAL:HG22	1.87	0.56
2:jM:187:ARG:HD2	2:jM:203:VAL:HG22	1.86	0.56
2:jP:160:PHE:N	2:jP:304:ASN:OD1	2.39	0.56
2:jR:83:THR:OG1	2:jR:203:VAL:O	2.21	0.56
2:jS:86:VAL:O	2:jS:202:GLN:N	2.37	0.56
2:jS:239:PHE:HE1	2:jS:294:LEU:HD22	1.70	0.56
1:jV:87:ASP:HB3	2:mZ:5:THR:HG22	1.87	0.56
1:jW:98:LEU:O	1:jW:98:LEU:HD23	2.05	0.56
2:kb:58:GLU:OE1	2:ls:78:LYS:NZ	2.27	0.56
2:ko:215:SER:O	2:ko:216:ARG:NE	2.38	0.56
2:kB:219:VAL:HG23	2:kB:259:ILE:HD12	1.85	0.56
2:kD:232:GLU:O	2:kD:237:VAL:HG23	2.05	0.56
2:kP:150:THR:OG1	2:kP:220:GLY:O	2.18	0.56
2:kQ:198:GLU:CG	1:mW:102:GLU:HA	2.35	0.56
2:kR:232:GLU:O	2:kR:237:VAL:HG23	2.05	0.56
2:kS:160:PHE:N	2:kS:304:ASN:OD1	2.39	0.56
1:kX:63:VAL:HG22	1:kX:74:ASP:HB3	1.86	0.56
1:lb:102:GLU:CG	1:nf:99:LEU:CD1	2.84	0.56
2:ld:281:GLN:N	2:ld:281:GLN:OE1	2.38	0.56
2:lg:86:VAL:HG11	2:lg:102:LEU:CD1	2.33	0.56
2:li:12:LEU:O	2:li:12:LEU:HD12	2.05	0.56
2:li:278:VAL:HG11	2:li:295:VAL:O	2.05	0.56
2:lt:232:GLU:O	2:lt:237:VAL:HG23	2.05	0.56
2:lu:144:TYR:HB3	2:lu:145:PRO:HD2	1.87	0.56
1:lz:102:GLU:OE1	2:lH:197:LYS:NZ	2.30	0.56
1:lA:102:GLU:HB2	1:oy:99:LEU:CD2	2.33	0.56
1:lB:98:LEU:O	1:lB:98:LEU:HD23	2.05	0.56
2:lF:188:MET:HE3	2:lF:188:MET:HA	1.87	0.56
2:lW:160:PHE:N	2:lW:304:ASN:OD1	2.39	0.56
1:ma:59:VAL:HG13	1:ma:77:GLY:HA3	1.86	0.56
2:mm:278:VAL:HG11	2:mm:295:VAL:O	2.05	0.56
2:mn:165:ASP:HB3	2:mn:173:LEU:HD13	1.88	0.56
2:mv:188:MET:HA	2:mv:188:MET:HE3	1.87	0.56
2:mA:12:LEU:HD12	2:mA:12:LEU:O	2.06	0.56
1:mC:100:LYS:HD2	2:oD:197:LYS:HZ2	1.69	0.56
1:mI:100:LYS:N	2:ov:197:LYS:CE	2.60	0.56
2:nc:12:LEU:HD12	2:nc:12:LEU:O	2.05	0.56
2:nd:36:THR:O	2:nd:175:THR:OG1	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nd:86:VAL:O	2:nd:202:GLN:N	2.37	0.56
1:nf:63:VAL:HG22	1:nf:74:ASP:HB3	1.86	0.56
2:nl:215:SER:O	2:nl:216:ARG:NE	2.38	0.56
2:nm:221:PHE:HD1	2:nm:242:VAL:HG22	1.70	0.56
2:nB:232:GLU:O	2:nB:237:VAL:HG23	2.05	0.56
2:nF:165:ASP:HB3	2:nF:173:LEU:HD13	1.88	0.56
1:nI:99:LEU:CD2	1:pa:102:GLU:HB2	2.33	0.56
2:nN:281:GLN:OE1	2:nN:281:GLN:N	2.38	0.56
1:oa:98:LEU:HD13	2:oc:64:VAL:HG22	1.87	0.56
2:og:12:LEU:HD12	2:og:12:LEU:O	2.05	0.56
2:op:281:GLN:OE1	2:op:281:GLN:N	2.38	0.56
2:ov:53:PHE:O	2:ov:255:ARG:NH2	2.35	0.56
2:oD:179:LEU:HD22	2:oD:209:TYR:HD2	1.68	0.56
2:oG:144:TYR:HB3	2:oG:145:PRO:HD2	1.87	0.56
2:oH:107:GLY:HA2	2:oH:184:TYR:HE1	1.66	0.56
2:oT:232:GLU:O	2:oT:237:VAL:HG23	2.05	0.56
2:oU:160:PHE:N	2:oU:304:ASN:OD1	2.39	0.56
2:pf:215:SER:O	2:pf:216:ARG:NE	2.38	0.56
1:pm:86:SER:O	1:pm:90:LEU:N	2.38	0.56
2:pH:188:MET:HE3	2:pH:188:MET:HA	1.87	0.56
2:pK:144:TYR:HB3	2:pK:145:PRO:HD2	1.87	0.56
2:qb:165:ASP:HB3	2:qb:173:LEU:HD13	1.88	0.56
3:qd:67:ARG:CA	4:qn:194:LEU:HD13	2.34	0.56
3:qf:26:ALA:O	3:qf:27:ILE:HD13	2.06	0.56
3:qg:117:ASP:O	4:ql:6:TYR:CZ	2.59	0.56
3:qg:117:ASP:O	4:ql:6:TYR:CE1	2.59	0.56
4:qm:116:PHE:CZ	4:qn:202:ILE:HD13	2.36	0.56
6:qq:112:LEU:CG	6:qs:58:LEU:HD12	2.09	0.56
5:qr:245:ASP:CG	6:qu:121:VAL:HG21	2.30	0.56
5:qH:38:LYS:HD2	6:qK:137:ASP:O	2.06	0.56
5:qJ:38:LYS:HD2	6:qM:137:ASP:O	2.06	0.56
2:ag:215:SER:O	2:ag:216:ARG:NE	2.38	0.56
2:aj:160:PHE:N	2:aj:304:ASN:OD1	2.39	0.56
2:ak:107:GLY:HA2	2:ak:184:TYR:HE1	1.66	0.56
2:aH:179:LEU:HD22	2:aH:209:TYR:CD2	2.39	0.56
2:aV:215:SER:O	2:aV:216:ARG:NE	2.38	0.56
2:aX:5:THR:HG22	1:ch:87:ASP:HB3	1.87	0.56
2:aZ:60:ILE:HG23	1:pr:105:THR:CG2	2.35	0.56
1:bi:98:LEU:HD13	2:bk:64:VAL:HG22	1.87	0.56
2:bm:144:TYR:HB3	2:bm:145:PRO:HD2	1.87	0.56
2:bm:160:PHE:N	2:bm:304:ASN:OD1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bx:188:MET:HE3	2:bx:188:MET:HA	1.87	0.56
2:bL:188:MET:HE3	2:bL:188:MET:HA	1.87	0.56
2:bZ:221:PHE:HD1	2:bZ:242:VAL:HG22	1.70	0.56
2:cb:160:PHE:N	2:cb:304:ASN:OD1	2.39	0.56
2:cT:86:VAL:HG11	2:cT:102:LEU:HD11	1.85	0.56
1:da:102:GLU:CG	1:fe:99:LEU:CD1	2.84	0.56
2:dh:12:LEU:HD12	2:dh:12:LEU:O	2.06	0.56
2:dw:62:GLN:CD	1:hM:104:CYS:HA	2.30	0.56
2:dw:86:VAL:O	2:dw:202:GLN:N	2.37	0.56
2:dK:239:PHE:HE1	2:dK:294:LEU:HD22	1.69	0.56
1:dL:100:LYS:CE	1:pe:100:LYS:HZ1	2.18	0.56
2:dY:209:TYR:OH	2:nN:93:ASP:OD2	2.22	0.56
2:eW:188:MET:HE3	2:eW:188:MET:HA	1.86	0.56
2:fb:12:LEU:HD12	2:fb:12:LEU:O	2.05	0.56
1:fe:63:VAL:HG22	1:fe:74:ASP:HB3	1.86	0.56
2:fk:93:ASP:OD2	2:gI:209:TYR:OH	2.22	0.56
2:fo:107:GLY:CA	2:fo:184:TYR:CE1	2.85	0.56
2:fp:12:LEU:O	2:fp:12:LEU:HD12	2.05	0.56
2:fD:278:VAL:HG11	2:fD:295:VAL:O	2.05	0.56
2:fO:232:GLU:O	2:fO:237:VAL:HG23	2.05	0.56
2:fP:160:PHE:N	2:fP:304:ASN:OD1	2.39	0.56
2:fS:62:GLN:CD	1:mp:104:CYS:HA	2.30	0.56
1:fT:59:VAL:HG13	1:fT:77:GLY:HA3	1.86	0.56
2:gg:239:PHE:HE1	2:gg:294:LEU:HD22	1.69	0.56
2:gr:160:PHE:N	2:gr:304:ASN:OD1	2.39	0.56
1:gB:98:LEU:HD13	2:gD:64:VAL:HG22	1.87	0.56
2:gR:58:GLU:OE1	2:ih:78:LYS:NZ	2.27	0.56
1:gX:102:GLU:OE2	1:lS:99:LEU:HG	1.74	0.56
1:gY:99:LEU:CD1	1:oB:102:GLU:CG	2.84	0.56
1:hc:102:GLU:CG	1:ox:99:LEU:CD1	2.84	0.56
2:hI:219:VAL:HG23	2:hI:259:ILE:HD12	1.86	0.56
2:hK:62:GLN:CD	1:lN:104:CYS:HA	2.30	0.56
2:il:12:LEU:HD12	2:il:12:LEU:O	2.05	0.56
2:ix:144:TYR:HB3	2:ix:145:PRO:HD2	1.87	0.56
2:iA:53:PHE:O	2:iA:255:ARG:NH2	2.36	0.56
2:iN:86:VAL:HG11	2:iN:102:LEU:HD11	1.86	0.56
2:iZ:86:VAL:HG11	2:iZ:102:LEU:CD1	2.33	0.56
1:js:104:CYS:HA	2:nd:62:GLN:NE2	2.19	0.56
2:jB:160:PHE:N	2:jB:304:ASN:OD1	2.39	0.56
2:jQ:219:VAL:HG23	2:jQ:259:ILE:HD12	1.86	0.56
2:ke:5:THR:O	2:ke:5:THR:HG23	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kf:12:LEU:HD12	2:kf:12:LEU:O	2.05	0.56
2:kP:188:MET:HE3	2:kP:188:MET:HA	1.87	0.56
2:lj:62:GLN:CD	1:lz:104:CYS:HA	2.30	0.56
2:lr:281:GLN:N	2:lr:281:GLN:OE1	2.38	0.56
1:lA:87:ASP:HB3	2:oF:5:THR:HG22	1.87	0.56
2:lJ:107:GLY:HA2	2:lJ:184:TYR:HE1	1.66	0.56
2:lK:12:LEU:HD12	2:lK:12:LEU:O	2.05	0.56
2:lL:62:GLN:CD	1:ox:104:CYS:HA	2.30	0.56
1:mr:98:LEU:O	1:mr:98:LEU:HD23	2.05	0.56
2:mz:107:GLY:HA2	2:mz:184:TYR:HE1	1.66	0.56
1:mD:63:VAL:HG22	1:mD:74:ASP:HB3	1.86	0.56
2:mM:160:PHE:N	2:mM:304:ASN:OD1	2.39	0.56
2:mX:188:MET:HA	2:mX:188:MET:HE3	1.87	0.56
2:mX:215:SER:O	2:mX:216:ARG:NE	2.38	0.56
2:mZ:232:GLU:O	2:mZ:237:VAL:HG23	2.05	0.56
2:nd:53:PHE:O	2:nd:255:ARG:NH2	2.35	0.56
1:ne:59:VAL:HG13	1:ne:77:GLY:HA3	1.86	0.56
2:nl:188:MET:HA	2:nl:188:MET:HE3	1.87	0.56
2:nr:86:VAL:O	2:nr:202:GLN:N	2.37	0.56
2:nA:221:PHE:HD1	2:nA:242:VAL:HG22	1.70	0.56
1:nH:104:CYS:HA	2:pl:62:GLN:CD	2.30	0.56
2:nN:215:SER:O	2:nN:216:ARG:NE	2.38	0.56
2:nT:165:ASP:HB3	2:nT:173:LEU:HD13	1.88	0.56
2:nT:197:LYS:CE	1:oa:100:LYS:N	2.60	0.56
2:oh:53:PHE:O	2:oh:255:ARG:NH2	2.36	0.56
2:op:188:MET:HA	2:op:188:MET:HE3	1.87	0.56
2:op:219:VAL:HG23	2:op:259:ILE:HD12	1.85	0.56
1:oC:98:LEU:HD13	2:oE:64:VAL:HG22	1.87	0.56
2:oD:281:GLN:OE1	2:oD:281:GLN:N	2.38	0.56
2:oR:281:GLN:N	2:oR:281:GLN:OE1	2.38	0.56
2:oS:121:LEU:O	2:oS:214:ARG:NH2	2.37	0.56
2:oX:165:ASP:HB3	2:oX:173:LEU:HD13	1.88	0.56
3:qe:66:GLN:CA	4:qm:8:TYR:HD2	2.17	0.56
3:qf:14:LEU:HD23	3:qf:114:PRO:HB3	1.87	0.56
3:qh:26:ALA:O	3:qh:27:ILE:HD13	2.06	0.56
4:qn:178:PHE:CE1	4:qo:39:LEU:HD23	2.41	0.56
6:qq:137:ASP:O	5:qL:38:LYS:HD2	2.06	0.56
5:qF:38:LYS:HD2	6:qI:137:ASP:O	2.06	0.56
1:aa:104:CYS:HA	2:nr:62:GLN:CD	2.30	0.56
2:ai:163:ALA:HB3	2:ai:265:VAL:HG12	1.88	0.56
2:am:86:VAL:O	2:am:202:GLN:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:au:93:ASP:OD2	2:bQ:209:TYR:OH	2.22	0.56
2:au:188:MET:HE3	2:au:188:MET:HA	1.87	0.56
2:ay:12:LEU:O	2:ay:12:LEU:HD12	2.05	0.56
2:az:165:ASP:HB3	2:az:173:LEU:HD13	1.88	0.56
2:aI:221:PHE:HD1	2:aI:242:VAL:HG22	1.70	0.56
2:bb:197:LYS:CE	1:bi:100:LYS:N	2.60	0.56
1:bf:98:LEU:O	1:bf:98:LEU:HD23	2.05	0.56
1:bT:87:ASP:HB3	2:eY:5:THR:HG22	1.87	0.56
2:ce:53:PHE:O	2:ce:255:ARG:NH2	2.36	0.56
1:ci:98:LEU:O	1:ci:98:LEU:HD23	2.05	0.56
2:cm:215:SER:O	2:cm:216:ARG:NE	2.38	0.56
2:cn:198:GLU:CG	1:ps:102:GLU:HA	2.35	0.56
2:co:232:GLU:O	2:co:237:VAL:HG23	2.05	0.56
1:cu:104:CYS:HA	2:dY:62:GLN:NE2	2.19	0.56
2:cG:86:VAL:O	2:cG:202:GLN:N	2.37	0.56
2:cQ:12:LEU:HD21	2:px:96:LEU:HD12	1.88	0.56
1:db:98:LEU:HD13	2:dd:64:VAL:HG22	1.87	0.56
1:db:100:LYS:N	2:eO:197:LYS:CE	2.60	0.56
2:de:232:GLU:O	2:de:237:VAL:HG23	2.05	0.56
2:dS:197:LYS:HZ2	1:oY:100:LYS:HD2	1.70	0.56
2:dT:198:GLU:CG	1:nM:102:GLU:HA	2.35	0.56
2:eg:281:GLN:N	2:eg:281:GLN:OE1	2.38	0.56
2:ek:107:GLY:HA2	2:ek:184:TYR:HE1	1.66	0.56
2:ex:160:PHE:N	2:ex:304:ASN:OD1	2.39	0.56
2:eA:165:ASP:HB3	2:eA:173:LEU:HD13	1.88	0.56
2:eM:60:ILE:HG23	1:gO:105:THR:CG2	2.35	0.56
2:eO:62:GLN:CD	1:fe:104:CYS:HA	2.30	0.56
1:eS:98:LEU:O	1:eS:98:LEU:HD23	2.05	0.56
1:eU:102:GLU:CG	1:iC:99:LEU:CD1	2.84	0.56
1:fu:98:LEU:O	1:fu:98:LEU:HD23	2.05	0.56
2:fD:12:LEU:O	2:fD:12:LEU:HD12	2.06	0.56
1:fK:102:GLU:CG	1:kv:99:LEU:CD1	2.83	0.56
2:fQ:107:GLY:CA	2:fQ:184:TYR:CE1	2.85	0.56
2:ga:281:GLN:N	2:ga:281:GLN:OE1	2.38	0.56
2:gg:165:ASP:HB3	2:gg:173:LEU:HD13	1.88	0.56
2:gH:12:LEU:HD12	2:gH:12:LEU:O	2.05	0.56
2:hF:198:GLU:CG	1:kA:102:GLU:HA	2.35	0.56
2:hj:278:VAL:HG11	2:hj:295:VAL:O	2.05	0.56
2:hu:144:TYR:HB3	2:hu:145:PRO:HD2	1.87	0.56
2:hG:163:ALA:HB3	2:hG:265:VAL:HG12	1.88	0.56
2:hY:239:PHE:HE1	2:hY:294:LEU:HD22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ix:160:PHE:N	2:ix:304:ASN:OD1	2.39	0.56
2:jl:198:GLU:CG	1:lq:102:GLU:HA	2.35	0.56
2:jP:144:TYR:HB3	2:jP:145:PRO:HD2	1.87	0.56
2:kd:160:PHE:N	2:kd:304:ASN:OD1	2.39	0.56
1:kh:86:SER:O	1:kh:90:LEU:N	2.38	0.56
1:lc:98:LEU:HD13	2:le:64:VAL:HG22	1.87	0.56
2:lf:232:GLU:O	2:lf:237:VAL:HG23	2.05	0.56
1:lN:63:VAL:HG22	1:lN:74:ASP:HB3	1.86	0.56
2:lW:274:ALA:HB1	2:lW:297:VAL:HG21	1.85	0.56
2:mj:232:GLU:O	2:mj:237:VAL:HG23	2.05	0.56
2:mv:187:ARG:HD2	2:mv:203:VAL:HG22	1.86	0.56
2:mP:62:GLN:CD	1:nf:104:CYS:HA	2.30	0.56
1:mT:98:LEU:O	1:mT:98:LEU:HD23	2.05	0.56
2:nq:278:VAL:HG11	2:nq:295:VAL:O	2.05	0.56
1:nx:82:ASP:OD1	1:nx:83:GLY:N	2.39	0.56
2:nz:188:MET:HA	2:nz:188:MET:HE3	1.87	0.56
2:nF:239:PHE:HE1	2:nF:294:LEU:HD22	1.69	0.56
1:nU:59:VAL:HG13	1:nU:77:GLY:HA3	1.86	0.56
2:ob:215:SER:O	2:ob:216:ARG:NE	2.38	0.56
2:op:215:SER:O	2:op:216:ARG:NE	2.38	0.56
2:pf:188:MET:HA	2:pf:188:MET:HE3	1.87	0.56
2:pv:232:GLU:O	2:pv:237:VAL:HG23	2.05	0.56
2:pw:160:PHE:N	2:pw:304:ASN:OD1	2.39	0.56
3:qg:67:ARG:CB	4:qk:194:LEU:HD13	2.35	0.56
5:qp:245:ASP:CG	6:qs:121:VAL:HG21	2.30	0.56
5:qx:245:ASP:CG	6:qA:121:VAL:HG21	2.30	0.56
6:qI:112:LEU:HD21	6:qK:58:LEU:CD1	0.94	0.56
2:ag:93:ASP:OD2	2:oh:209:TYR:OH	2.22	0.56
1:an:100:LYS:HD2	2:oR:197:LYS:HZ2	1.70	0.56
2:av:12:LEU:HD21	2:hW:96:LEU:HD12	1.88	0.56
2:aK:160:PHE:N	2:aK:304:ASN:OD1	2.39	0.56
2:aL:96:LEU:HD12	2:ht:12:LEU:HD21	1.88	0.56
1:aT:102:GLU:CG	1:pn:99:LEU:CD1	2.84	0.56
2:aX:12:LEU:HD21	2:cq:96:LEU:HD12	1.88	0.56
2:bb:86:VAL:O	2:bb:202:GLN:N	2.37	0.56
2:bk:121:LEU:O	2:bk:214:ARG:NH2	2.37	0.56
2:bn:96:LEU:HD12	2:kp:12:LEU:HD21	1.88	0.56
1:bq:100:LYS:CE	1:dp:100:LYS:HZ1	2.18	0.56
2:bB:96:LEU:HD12	2:ca:12:LEU:HD21	1.88	0.56
2:bD:165:ASP:HB3	2:bD:173:LEU:HD13	1.88	0.56
1:bJ:102:GLU:CG	1:lN:99:LEU:CD1	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:99:LEU:CD1	1:hQ:102:GLU:CG	2.84	0.56
2:cb:144:TYR:HB3	2:cb:145:PRO:HD2	1.87	0.56
2:cd:12:LEU:O	2:cd:12:LEU:HD12	2.06	0.56
2:ce:239:PHE:HE1	2:ce:294:LEU:HD22	1.70	0.56
2:co:163:ALA:HB3	2:co:265:VAL:HG12	1.88	0.56
2:co:197:LYS:HZ2	1:jg:99:LEU:C	2.14	0.56
1:ct:86:SER:O	1:ct:90:LEU:N	2.38	0.56
1:cu:102:GLU:OE1	2:cC:197:LYS:NZ	2.30	0.56
2:cC:232:GLU:O	2:cC:237:VAL:HG23	2.05	0.56
2:cP:198:GLU:CG	1:eV:102:GLU:HA	2.35	0.56
2:cU:165:ASP:HB3	2:cU:173:LEU:HD13	1.88	0.56
1:cX:99:LEU:CA	1:gx:102:GLU:OE1	2.28	0.56
2:dg:60:ILE:HG23	1:fi:105:THR:CG2	2.35	0.56
2:dq:187:ARG:HD2	2:dq:203:VAL:HG22	1.86	0.56
2:du:60:ILE:HG23	1:km:105:THR:CG2	2.35	0.56
2:dE:93:ASP:OD2	2:fc:209:TYR:OH	2.22	0.56
2:dH:160:PHE:N	2:dH:304:ASN:OD1	2.39	0.56
2:dI:107:GLY:HA2	2:dI:184:TYR:HE1	1.66	0.56
1:dQ:82:ASP:OD1	1:dQ:83:GLY:N	2.39	0.56
2:dT:121:LEU:O	2:dT:214:ARG:NH2	2.37	0.56
2:dU:232:GLU:O	2:dU:237:VAL:HG23	2.05	0.56
2:ej:160:PHE:N	2:ej:304:ASN:OD1	2.39	0.56
2:ek:96:LEU:HD12	2:od:12:LEU:HD21	1.88	0.56
2:fq:86:VAL:O	2:fq:202:GLN:N	2.37	0.56
1:fK:82:ASP:OD1	1:fK:83:GLY:N	2.39	0.56
2:fO:12:LEU:HD21	2:hi:96:LEU:HD12	1.88	0.56
1:fY:82:ASP:OD1	1:fY:83:GLY:N	2.39	0.56
2:ga:188:MET:HA	2:ga:188:MET:HE3	1.87	0.56
2:gb:198:GLU:CG	1:if:102:GLU:HA	2.35	0.56
2:gc:197:LYS:NZ	1:md:99:LEU:CA	2.59	0.56
1:gj:60:ARG:NH2	1:gL:99:LEU:CD1	2.52	0.56
2:gG:5:THR:HG23	2:gG:5:THR:O	2.03	0.56
2:gR:221:PHE:HD1	2:gR:242:VAL:HG22	1.70	0.56
1:hm:99:LEU:CD1	1:iU:102:GLU:CG	2.84	0.56
2:hs:281:GLN:N	2:hs:281:GLN:OE1	2.38	0.56
2:ht:163:ALA:HB3	2:ht:265:VAL:HG12	1.88	0.56
2:hx:103:MET:HB3	5:qz:34:GLN:HE22	1.70	0.56
2:hx:239:PHE:HE1	2:hx:294:LEU:HD22	1.70	0.56
2:iw:12:LEU:HD21	2:pZ:96:LEU:HD12	1.88	0.56
2:iw:232:GLU:O	2:iw:237:VAL:HG23	2.05	0.56
2:iL:144:TYR:HB3	2:iL:145:PRO:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jn:144:TYR:HB3	2:jn:145:PRO:HD2	1.87	0.56
2:jD:12:LEU:HD12	2:jD:12:LEU:O	2.06	0.56
2:jO:163:ALA:HB3	2:jO:265:VAL:HG12	1.88	0.56
2:kb:221:PHE:HD1	2:kb:242:VAL:HG22	1.70	0.56
2:kd:144:TYR:HB3	2:kd:145:PRO:HD2	1.87	0.56
2:ke:60:ILE:HG23	1:pT:105:THR:CG2	2.35	0.56
2:kP:179:LEU:HD22	2:kP:209:TYR:CD2	2.39	0.56
2:lj:86:VAL:O	2:lj:202:GLN:N	2.37	0.56
2:lG:121:LEU:O	2:lG:214:ARG:NH2	2.37	0.56
1:mf:82:ASP:OD1	1:mf:83:GLY:N	2.39	0.56
1:mI:98:LEU:HD13	2:mK:64:VAL:HG22	1.87	0.56
1:nk:98:LEU:HD13	2:nm:64:VAL:HG22	1.87	0.56
1:nk:100:LYS:HZ1	1:oK:100:LYS:CE	2.19	0.56
2:nl:93:ASP:OD2	2:oJ:209:TYR:OH	2.22	0.56
2:nE:12:LEU:HD12	2:nE:12:LEU:O	2.05	0.56
2:nE:278:VAL:HG11	2:nE:295:VAL:O	2.05	0.56
1:oi:59:VAL:HG13	1:oi:77:GLY:HA3	1.86	0.56
2:or:232:GLU:O	2:or:237:VAL:HG23	2.05	0.56
2:oR:188:MET:HE3	2:oR:188:MET:HA	1.87	0.56
2:oW:12:LEU:HD12	2:oW:12:LEU:O	2.05	0.56
2:pf:281:GLN:N	2:pf:281:GLN:OE1	2.38	0.56
2:pt:188:MET:HE3	2:pt:188:MET:HA	1.87	0.56
2:pX:232:GLU:O	2:pX:237:VAL:HG23	2.05	0.56
2:qb:86:VAL:O	2:qb:202:GLN:N	2.37	0.56
3:qe:26:ALA:O	3:qe:27:ILE:HD13	2.06	0.56
3:qg:26:ALA:O	3:qg:27:ILE:HD13	2.06	0.56
4:ql:178:PHE:CE1	4:qm:39:LEU:HD23	2.41	0.56
5:qp:38:LYS:HD2	6:qs:137:ASP:O	2.06	0.56
5:qp:96:ARG:CD	5:qr:114:LEU:HD23	2.11	0.56
5:qt:317:PHE:HZ	5:qv:319:LEU:CD1	2.18	0.56
5:qB:235:ARG:NH2	5:qB:256:THR:O	2.39	0.56
5:qF:245:ASP:CG	6:qI:121:VAL:HG21	2.30	0.56
2:aj:197:LYS:CD	1:oP:99:LEU:HA	2.13	0.56
2:am:53:PHE:O	2:am:255:ARG:NH2	2.35	0.56
1:aq:98:LEU:O	1:aq:98:LEU:HD23	2.05	0.56
1:as:82:ASP:OD1	1:as:83:GLY:N	2.39	0.56
1:at:100:LYS:N	2:bQ:197:LYS:CE	2.60	0.56
2:aY:144:TYR:HB3	2:aY:145:PRO:HD2	1.87	0.56
2:aY:160:PHE:N	2:aY:304:ASN:OD1	2.39	0.56
2:bp:165:ASP:HB3	2:bp:173:LEU:HD13	1.88	0.56
2:bz:12:LEU:HD21	2:fa:96:LEU:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bK:70:GLY:N	6:qw:116:GLY:HA2	2.19	0.56
2:bM:163:ALA:HB3	2:bM:265:VAL:HG12	1.88	0.56
2:bO:219:VAL:HG23	2:bO:259:ILE:HD12	1.86	0.56
2:ce:165:ASP:HB3	2:ce:173:LEU:HD13	1.88	0.56
1:cl:100:LYS:HZ1	1:iB:100:LYS:CE	2.18	0.56
2:cC:5:THR:HG22	1:dN:87:ASP:HB3	1.87	0.56
2:cE:60:ILE:HG23	1:nL:105:THR:CG2	2.35	0.56
2:cE:219:VAL:HG23	2:cE:259:ILE:HD12	1.86	0.56
2:cG:197:LYS:CE	1:cN:100:LYS:N	2.60	0.56
2:cT:12:LEU:HD12	2:cT:12:LEU:O	2.06	0.56
2:df:144:TYR:HB3	2:df:145:PRO:HD2	1.86	0.56
2:dg:96:LEU:HD12	2:dG:12:LEU:HD21	1.88	0.56
2:di:239:PHE:HE1	2:di:294:LEU:HD22	1.69	0.56
1:dl:87:ASP:HB3	2:hU:5:THR:HG22	1.87	0.56
1:dp:98:LEU:HD13	2:dr:64:VAL:HG22	1.87	0.56
1:ef:102:GLU:HA	2:nA:198:GLU:CG	2.35	0.56
2:eu:281:GLN:OE1	2:eu:281:GLN:N	2.38	0.56
2:ez:12:LEU:O	2:ez:12:LEU:HD12	2.06	0.56
1:eD:87:ASP:HB3	2:fm:5:THR:HG22	1.87	0.56
1:eG:82:ASP:OD1	1:eG:83:GLY:N	2.39	0.56
2:eK:12:LEU:HD21	2:ik:96:LEU:HD12	1.88	0.56
2:eN:12:LEU:O	2:eN:12:LEU:HD12	2.06	0.56
1:eV:98:LEU:HD13	2:eX:64:VAL:HG22	1.87	0.56
2:eW:187:ARG:HD2	2:eW:203:VAL:HG22	1.86	0.56
2:eZ:160:PHE:N	2:eZ:304:ASN:OD1	2.39	0.56
1:ff:87:ASP:HB3	2:ii:5:THR:HG22	1.87	0.56
1:fi:82:ASP:OD1	1:fi:83:GLY:N	2.39	0.56
2:fB:274:ALA:HB1	2:fB:297:VAL:HG21	1.85	0.56
2:fS:165:ASP:HB3	2:fS:173:LEU:HD13	1.88	0.56
2:gq:163:ALA:HB3	2:gq:265:VAL:HG12	1.88	0.56
2:gC:298:LEU:HD12	2:gC:298:LEU:O	2.06	0.56
2:hg:232:GLU:O	2:hg:237:VAL:HG23	2.05	0.56
2:hh:160:PHE:N	2:hh:304:ASN:OD1	2.39	0.56
2:hj:12:LEU:HD12	2:hj:12:LEU:O	2.05	0.56
2:ht:232:GLU:O	2:ht:237:VAL:HG23	2.05	0.56
2:hu:160:PHE:N	2:hu:304:ASN:OD1	2.39	0.56
2:hH:160:PHE:N	2:hH:304:ASN:OD1	2.39	0.56
1:ia:99:LEU:CD1	1:nx:102:GLU:CG	2.84	0.56
2:ig:281:GLN:N	2:ig:281:GLN:OE1	2.38	0.56
2:ij:160:PHE:N	2:ij:304:ASN:OD1	2.39	0.56
1:in:86:SER:O	1:in:90:LEU:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iz:12:LEU:HD12	2:iz:12:LEU:O	2.06	0.56
2:iN:12:LEU:HD12	2:iN:12:LEU:O	2.05	0.56
1:iP:86:SER:O	1:iP:90:LEU:N	2.38	0.56
2:jz:221:PHE:HD1	2:jz:242:VAL:HG22	1.70	0.56
2:jE:62:GLN:CD	1:jU:104:CYS:HA	2.30	0.56
2:jM:93:ASP:OD2	2:pN:209:TYR:OH	2.22	0.56
2:jO:232:GLU:O	2:jO:237:VAL:HG23	2.05	0.56
1:jY:102:GLU:CG	1:pP:99:LEU:CD1	2.84	0.56
2:ko:281:GLN:N	2:ko:281:GLN:OE1	2.38	0.56
2:kt:165:ASP:HB3	2:kt:173:LEU:HD13	1.88	0.56
2:kP:281:GLN:N	2:kP:281:GLN:OE1	2.38	0.56
2:kQ:282:ARG:HH11	2:mY:282:ARG:NH2	1.93	0.56
2:kV:165:ASP:HB3	2:kV:173:LEU:HD13	1.88	0.56
2:ld:188:MET:HA	2:ld:188:MET:HE3	1.87	0.56
2:li:86:VAL:HG11	2:li:102:LEU:HD11	1.86	0.56
2:lx:86:VAL:O	2:lx:202:GLN:N	2.37	0.56
2:lH:238:ASN:O	2:lH:242:VAL:HG23	2.06	0.56
2:mw:198:GLU:CG	1:oC:102:GLU:HA	2.35	0.56
2:my:86:VAL:HG11	2:my:102:LEU:CD1	2.33	0.56
2:mB:165:ASP:HB3	2:mB:173:LEU:HD13	1.88	0.56
1:mE:102:GLU:OE1	1:ng:99:LEU:CA	2.28	0.56
2:mZ:238:ASN:O	2:mZ:242:VAL:HG23	2.06	0.56
2:nP:12:LEU:HD21	2:pj:96:LEU:HD12	1.88	0.56
2:nQ:160:PHE:N	2:nQ:304:ASN:OD1	2.39	0.56
2:ot:219:VAL:HG23	2:ot:259:ILE:HD12	1.86	0.56
2:oD:187:ARG:HD2	2:oD:203:VAL:HG22	1.86	0.56
2:oU:144:TYR:HB3	2:oU:145:PRO:HD2	1.87	0.56
1:pe:98:LEU:HD13	2:pg:64:VAL:HG22	1.87	0.56
2:pi:160:PHE:N	2:pi:304:ASN:OD1	2.39	0.56
2:pz:53:PHE:O	2:pz:255:ARG:NH2	2.35	0.56
1:pG:98:LEU:HD13	2:pI:64:VAL:HG22	1.87	0.56
2:pN:239:PHE:HE1	2:pN:294:LEU:HD22	1.70	0.56
3:qd:25:LEU:HD21	6:qu:82:VAL:HG23	1.88	0.56
3:qd:26:ALA:O	3:qd:27:ILE:HD13	2.06	0.56
3:qg:68:ALA:CB	4:qk:8:TYR:CE2	2.89	0.56
3:qh:14:LEU:HD23	3:qh:114:PRO:HB3	1.87	0.56
5:qD:235:ARG:NH2	5:qD:256:THR:O	2.39	0.56
1:ae:102:GLU:CG	1:fs:99:LEU:CD1	2.84	0.56
2:ai:232:GLU:O	2:ai:237:VAL:HG23	2.05	0.56
2:av:238:ASN:O	2:av:242:VAL:HG23	2.06	0.56
2:ax:60:ILE:HG23	1:gm:105:THR:CG2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:az:103:MET:HE1	5:qJ:31:GLU:C	2.31	0.56
1:aB:104:CYS:HA	2:kV:62:GLN:CD	2.30	0.56
2:aN:239:PHE:HE1	2:aN:294:LEU:HD22	1.69	0.56
2:aZ:62:GLN:HE21	2:py:197:LYS:HZ1	1.53	0.56
2:aZ:96:LEU:HD12	2:jm:12:LEU:HD21	1.88	0.56
1:bd:99:LEU:CD1	1:ji:102:GLU:CG	2.84	0.56
2:bj:188:MET:HA	2:bj:188:MET:HE3	1.87	0.56
2:bo:12:LEU:HD12	2:bo:12:LEU:O	2.05	0.56
2:bM:232:GLU:O	2:bM:237:VAL:HG23	2.05	0.56
1:cl:102:GLU:HA	2:iv:198:GLU:CG	2.35	0.56
2:cr:86:VAL:HG11	2:cr:102:LEU:HD11	1.85	0.56
2:cA:187:ARG:HD2	2:cA:203:VAL:HG22	1.86	0.56
2:cG:224:TRP:CZ2	2:cG:242:VAL:HG11	2.41	0.56
1:cM:105:THR:CG2	2:pL:60:ILE:HG23	2.35	0.56
2:cQ:238:ASN:O	2:cQ:242:VAL:HG23	2.06	0.56
1:dM:99:LEU:CD1	1:jK:102:GLU:CG	2.83	0.56
2:dY:224:TRP:CZ2	2:dY:242:VAL:HG11	2.41	0.56
1:dZ:86:SER:O	1:dZ:90:LEU:N	2.38	0.56
2:eg:187:ARG:HD2	2:eg:203:VAL:HG22	1.86	0.56
2:eK:232:GLU:O	2:eK:237:VAL:HG23	2.05	0.56
2:eO:86:VAL:O	2:eO:202:GLN:N	2.37	0.56
2:eW:298:LEU:HD12	2:eW:298:LEU:O	2.06	0.56
2:fa:219:VAL:HG23	2:fa:259:ILE:HD12	1.86	0.56
2:fb:171:TYR:OH	2:fb:175:THR:OG1	2.12	0.56
1:fF:86:SER:O	1:fF:90:LEU:N	2.38	0.56
1:fW:98:LEU:O	1:fW:98:LEU:HD23	2.05	0.56
2:ge:96:LEU:HD12	2:nB:12:LEU:HD21	1.88	0.56
2:gq:238:ASN:O	2:gq:242:VAL:HG23	2.06	0.56
2:gu:239:PHE:HE1	2:gu:294:LEU:HD22	1.70	0.56
2:hx:224:TRP:CZ2	2:hx:242:VAL:HG11	2.41	0.56
1:hy:59:VAL:HG13	1:hy:77:GLY:HA3	1.86	0.56
1:hz:104:CYS:HA	2:kH:62:GLN:CD	2.30	0.56
2:hU:232:GLU:O	2:hU:237:VAL:HG23	2.05	0.56
2:hW:219:VAL:HG23	2:hW:259:ILE:HD12	1.86	0.56
1:ie:82:ASP:OD1	1:ie:83:GLY:N	2.39	0.56
2:ij:144:TYR:HB3	2:ij:145:PRO:HD2	1.87	0.56
2:iw:238:ASN:O	2:iw:242:VAL:HG23	2.06	0.56
1:jd:59:VAL:HG13	1:jd:77:GLY:HA3	1.86	0.56
2:jm:238:ASN:O	2:jm:242:VAL:HG23	2.06	0.56
2:jQ:165:ASP:HB3	2:jQ:173:LEU:HD13	1.87	0.56
1:jw:82:ASP:OD1	1:jw:83:GLY:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jw:102:GLU:CG	1:lz:99:LEU:CD1	2.84	0.56
2:jM:215:SER:O	2:jM:216:ARG:NE	2.38	0.56
2:jO:5:THR:HG22	1:oM:87:ASP:HB3	1.87	0.56
1:jY:82:ASP:OD1	1:jY:83:GLY:N	2.39	0.56
2:kq:160:PHE:N	2:kq:304:ASN:OD1	2.39	0.56
2:kB:187:ARG:HD2	2:kB:203:VAL:HG22	1.86	0.56
2:kE:144:TYR:HB3	2:kE:145:PRO:HD2	1.87	0.56
2:kF:219:VAL:HG23	2:kF:259:ILE:HD12	1.86	0.56
1:kI:86:SER:O	1:kI:90:LEU:N	2.38	0.56
2:lg:160:PHE:N	2:lg:304:ASN:OD1	2.39	0.56
2:lr:187:ARG:HD2	2:lr:203:VAL:HG22	1.86	0.56
2:lr:188:MET:HE3	2:lr:188:MET:HA	1.87	0.56
2:lK:171:TYR:OH	2:lK:175:THR:OG1	2.12	0.56
2:lZ:165:ASP:HB3	2:lZ:173:LEU:HD13	1.88	0.56
2:mk:160:PHE:N	2:mk:304:ASN:OD1	2.39	0.56
2:nn:232:GLU:O	2:nn:237:VAL:HG23	2.05	0.56
2:nB:238:ASN:O	2:nB:242:VAL:HG23	2.06	0.56
2:nS:12:LEU:O	2:nS:12:LEU:HD12	2.05	0.56
2:od:163:ALA:HB3	2:od:265:VAL:HG12	1.88	0.56
2:ov:36:THR:O	2:ov:175:THR:OG1	2.18	0.56
2:oH:219:VAL:HG23	2:oH:259:ILE:HD12	1.86	0.56
2:pt:215:SER:O	2:pt:216:ARG:NE	2.38	0.56
2:pt:281:GLN:N	2:pt:281:GLN:OE1	2.38	0.56
2:pu:221:PHE:HD1	2:pu:242:VAL:HG22	1.70	0.56
2:pV:281:GLN:N	2:pV:281:GLN:OE1	2.38	0.56
2:pZ:107:GLY:HA2	2:pZ:184:TYR:HE1	1.66	0.56
3:qe:67:ARG:H	4:qm:194:LEU:CD1	1.81	0.56
5:qr:229:ILE:HD13	5:qt:232:LEU:HD21	1.85	0.56
5:qz:235:ARG:NH2	5:qz:256:THR:O	2.39	0.56
5:qD:38:LYS:HD2	6:qG:137:ASP:O	2.06	0.56
5:qD:251:LEU:O	5:qD:255:VAL:HG23	2.06	0.56
5:qH:235:ARG:NH2	5:qH:256:THR:O	2.39	0.56
2:am:62:GLN:CD	1:mD:104:CYS:HA	2.30	0.56
1:aG:100:LYS:HZ1	1:kh:100:LYS:CG	2.19	0.56
2:aJ:238:ASN:O	2:aJ:242:VAL:HG23	2.06	0.56
2:aW:198:GLU:CG	1:bi:102:GLU:HA	2.35	0.56
2:aX:238:ASN:O	2:aX:242:VAL:HG23	2.06	0.56
2:bj:117:LEU:HD21	2:bj:211:TYR:HA	1.88	0.56
2:bx:281:GLN:N	2:bx:281:GLN:OE1	2.38	0.56
2:bz:238:ASN:O	2:bz:242:VAL:HG23	2.06	0.56
2:bL:298:LEU:HD12	2:bL:298:LEU:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ca:232:GLU:O	2:ca:237:VAL:HG23	2.05	0.56
2:ca:238:ASN:O	2:ca:242:VAL:HG23	2.06	0.56
1:cg:99:LEU:CD1	1:lp:102:GLU:CG	2.84	0.56
2:cF:12:LEU:HD12	2:cF:12:LEU:O	2.06	0.56
1:cH:59:VAL:HG13	1:cH:77:GLY:HA3	1.86	0.56
1:cI:99:LEU:CD1	1:pF:102:GLU:CG	2.84	0.56
2:cO:298:LEU:HD12	2:cO:298:LEU:O	2.06	0.56
1:db:100:LYS:HZ1	1:eP:100:LYS:CE	2.18	0.56
2:df:63:ARG:HG2	2:gG:197:LYS:O	2.06	0.56
2:df:160:PHE:N	2:df:304:ASN:OD1	2.39	0.56
2:dh:243:TYR:O	2:dh:247:ARG:HG2	2.06	0.56
2:di:62:GLN:OE1	1:dy:104:CYS:HA	2.06	0.56
1:do:102:GLU:CG	1:ki:99:LEU:CD1	2.84	0.56
1:do:105:THR:CG2	2:kr:60:ILE:HG23	2.35	0.56
2:dt:160:PHE:N	2:dt:304:ASN:OD1	2.39	0.56
1:dA:98:LEU:O	1:dA:98:LEU:HD23	2.05	0.56
2:dS:298:LEU:HD12	2:dS:298:LEU:O	2.06	0.56
2:dU:12:LEU:HD21	2:pL:96:LEU:HD12	1.88	0.56
2:dV:197:LYS:CD	1:nL:99:LEU:HA	2.13	0.56
1:ee:102:GLU:CG	1:mb:99:LEU:CD1	2.84	0.56
2:eI:298:LEU:HD12	2:eI:298:LEU:O	2.06	0.56
2:eN:243:TYR:O	2:eN:247:ARG:HG2	2.06	0.56
2:fc:224:TRP:CZ2	2:fc:242:VAL:HG11	2.41	0.56
2:fk:281:GLN:OE1	2:fk:281:GLN:N	2.38	0.56
2:fn:144:TYR:HB3	2:fn:145:PRO:HD2	1.87	0.56
2:fA:238:ASN:O	2:fA:242:VAL:HG23	2.06	0.56
1:fF:100:LYS:HD2	2:mh:197:LYS:HZ2	1.71	0.56
1:fL:98:LEU:HD13	2:fN:64:VAL:HG22	1.88	0.56
2:ga:298:LEU:HD12	2:ga:298:LEU:O	2.06	0.56
2:gd:160:PHE:N	2:gd:304:ASN:OD1	2.39	0.56
2:ge:60:ILE:HG23	1:mt:105:THR:CG2	2.35	0.56
2:gu:224:TRP:CZ2	2:gu:242:VAL:HG11	2.41	0.56
2:gE:238:ASN:O	2:gE:242:VAL:HG23	2.06	0.56
1:gP:98:LEU:HD13	2:gR:64:VAL:HG22	1.87	0.56
1:hd:98:LEU:HD13	2:hF:64:VAL:HG22	1.87	0.56
2:hs:111:GLY:N	5:qB:176:ASN:HB3	2.20	0.56
2:hx:62:GLN:OE1	1:kJ:104:CYS:HA	2.06	0.56
2:hx:95:ASN:CG	5:qz:47:ARG:HH21	1.97	0.56
2:hx:165:ASP:HB3	2:hx:173:LEU:HD13	1.88	0.56
1:hD:102:GLU:CG	1:kJ:99:LEU:CD1	2.84	0.56
2:hG:12:LEU:HD21	2:kF:96:LEU:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hJ:243:TYR:O	2:hJ:247:ARG:HG2	2.06	0.56
2:hK:100:GLY:O	5:qt:54:GLN:NE2	2.38	0.56
2:iA:165:ASP:HB3	2:iA:173:LEU:HD13	1.88	0.56
2:iA:239:PHE:HE1	2:iA:294:LEU:HD22	1.69	0.56
2:iK:232:GLU:O	2:iK:237:VAL:HG23	2.05	0.56
2:iO:62:GLN:CD	1:pn:104:CYS:HA	2.30	0.56
1:iQ:104:CYS:HA	2:kt:62:GLN:CD	2.30	0.56
1:iU:82:ASP:OD1	1:iU:83:GLY:N	2.39	0.56
2:iY:238:ASN:O	2:iY:242:VAL:HG23	2.06	0.56
2:jQ:197:LYS:CE	1:lq:100:LYS:N	2.60	0.56
1:jR:102:GLU:OE2	1:lq:99:LEU:HD21	2.06	0.56
2:jA:238:ASN:O	2:jA:242:VAL:HG23	2.06	0.56
2:jD:243:TYR:O	2:jD:247:ARG:HG2	2.06	0.56
2:jE:165:ASP:HB3	2:jE:173:LEU:HD13	1.88	0.56
2:kc:238:ASN:O	2:kc:242:VAL:HG23	2.06	0.56
2:ke:96:LEU:HD12	2:mZ:12:LEU:HD21	1.88	0.56
2:kp:238:ASN:O	2:kp:242:VAL:HG23	2.06	0.56
2:kG:12:LEU:O	2:kG:12:LEU:HD12	2.05	0.56
2:kG:243:TYR:O	2:kG:247:ARG:HG2	2.06	0.56
1:lb:82:ASP:OD1	1:lb:83:GLY:N	2.39	0.56
1:lq:98:LEU:HD13	2:ls:64:VAL:HG22	1.87	0.56
2:ls:221:PHE:HD1	2:ls:242:VAL:HG22	1.70	0.56
2:lt:238:ASN:O	2:lt:242:VAL:HG23	2.06	0.56
2:lu:160:PHE:N	2:lu:304:ASN:OD1	2.39	0.56
2:lx:224:TRP:CZ2	2:lx:242:VAL:HG11	2.41	0.56
2:IL:53:PHE:O	2:IL:255:ARG:NH2	2.35	0.56
2:mh:188:MET:HE3	2:mh:188:MET:HA	1.87	0.56
2:mj:15:SER:OG	2:mj:17:GLN:NE2	2.39	0.56
1:mo:59:VAL:HG13	1:mo:77:GLY:HA3	1.86	0.56
2:mB:86:VAL:O	2:mB:202:GLN:N	2.37	0.56
1:mD:102:GLU:OE1	2:mL:197:LYS:NZ	2.30	0.56
1:mH:105:THR:CG2	2:oV:60:ILE:HG23	2.35	0.56
2:mJ:298:LEU:HD12	2:mJ:298:LEU:O	2.06	0.56
1:mW:98:LEU:HD13	2:mY:64:VAL:HG22	1.87	0.56
2:nq:243:TYR:O	2:nq:247:ARG:HG2	2.06	0.56
2:nr:239:PHE:HE1	2:nr:294:LEU:HD22	1.69	0.56
2:nz:298:LEU:HD12	2:nz:298:LEU:O	2.06	0.56
2:nC:160:PHE:N	2:nC:304:ASN:OD1	2.39	0.56
2:nT:224:TRP:CZ2	2:nT:242:VAL:HG11	2.41	0.56
2:od:232:GLU:O	2:od:237:VAL:HG23	2.05	0.56
2:ov:239:PHE:HE1	2:ov:294:LEU:HD22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oD:298:LEU:HD12	2:oD:298:LEU:O	2.06	0.56
2:oG:160:PHE:N	2:oG:304:ASN:OD1	2.39	0.56
2:pg:5:THR:OG1	2:pg:6:PRO:HD3	2.04	0.56
2:pg:221:PHE:HD1	2:pg:242:VAL:HG22	1.70	0.56
2:pv:238:ASN:O	2:pv:242:VAL:HG23	2.06	0.56
2:pV:117:LEU:HD21	2:pV:211:TYR:HA	1.88	0.56
6:qu:112:LEU:CG	6:qw:58:LEU:HD12	2.09	0.56
6:qw:112:LEU:CB	6:qy:58:LEU:HD13	2.34	0.56
5:qB:251:LEU:O	5:qB:255:VAL:HG23	2.06	0.56
5:qH:245:ASP:CG	6:qK:121:VAL:HG21	2.30	0.56
5:qH:317:PHE:HZ	5:qJ:319:LEU:CD1	2.18	0.56
5:qH:392:LEU:CD1	5:qJ:400:TYR:HH	2.19	0.56
5:qJ:235:ARG:NH2	5:qJ:256:THR:O	2.39	0.56
2:ag:298:LEU:O	2:ag:298:LEU:HD12	2.06	0.56
2:au:298:LEU:HD12	2:au:298:LEU:O	2.06	0.56
2:az:224:TRP:CZ2	2:az:242:VAL:HG11	2.41	0.56
1:aB:99:LEU:CD1	1:mV:102:GLU:CG	2.84	0.56
1:aF:102:GLU:CG	1:mR:99:LEU:CD1	2.84	0.56
2:aL:197:LYS:O	2:hu:63:ARG:HG2	2.07	0.56
2:ba:243:TYR:O	2:ba:247:ARG:HG2	2.06	0.56
2:bb:117:LEU:HD21	2:bb:211:TYR:CA	2.36	0.56
2:bl:163:ALA:HB3	2:bl:265:VAL:HG12	1.88	0.56
1:br:104:CYS:HA	2:fc:62:GLN:CD	2.30	0.56
2:bL:215:SER:O	2:bL:216:ARG:NE	2.38	0.56
2:bM:12:LEU:HD21	2:gU:96:LEU:HD12	1.88	0.56
2:bN:160:PHE:N	2:bN:304:ASN:OD1	2.39	0.56
1:bX:100:LYS:HZ1	1:dx:100:LYS:CE	2.18	0.56
1:bX:102:GLU:HA	2:dr:198:GLU:CG	2.35	0.56
1:cz:102:GLU:HA	2:pg:198:GLU:CG	2.35	0.56
2:cA:188:MET:HE3	2:cA:188:MET:HA	1.87	0.56
2:cC:15:SER:OG	2:cC:17:GLN:NE2	2.39	0.56
2:cC:238:ASN:O	2:cC:242:VAL:HG23	2.06	0.56
2:cD:160:PHE:N	2:cD:304:ASN:OD1	2.39	0.56
2:cG:62:GLN:OE1	1:pB:104:CYS:HA	2.06	0.56
2:cO:188:MET:HA	2:cO:188:MET:HE3	1.87	0.56
2:cR:144:TYR:HB3	2:cR:145:PRO:HD2	1.87	0.56
1:cV:102:GLU:OE2	1:eV:99:LEU:HD21	2.06	0.56
1:dk:102:GLU:OE1	2:ds:197:LYS:NZ	2.30	0.56
2:ds:163:ALA:HB3	2:ds:265:VAL:HG12	1.88	0.56
2:dY:165:ASP:HB3	2:dY:173:LEU:HD13	1.88	0.56
1:ea:99:LEU:CD1	1:mf:102:GLU:CG	2.84	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eo:99:LEU:CD1	1:nZ:102:GLU:CG	2.84	0.56
2:eu:188:MET:HA	2:eu:188:MET:HE3	1.87	0.56
2:ex:144:TYR:HB3	2:ex:145:PRO:HD2	1.86	0.56
2:eL:160:PHE:N	2:eL:304:ASN:OD1	2.39	0.56
2:eO:239:PHE:HE1	2:eO:294:LEU:HD22	1.70	0.56
2:fm:15:SER:OG	2:fm:17:GLN:NE2	2.39	0.56
2:fm:238:ASN:O	2:fm:242:VAL:HG23	2.06	0.56
2:fB:144:TYR:HB3	2:fB:145:PRO:HD2	1.87	0.56
2:fE:165:ASP:HB3	2:fE:173:LEU:HD13	1.88	0.56
1:fH:87:ASP:HB3	2:mx:5:THR:HG22	1.87	0.56
2:gd:144:TYR:HB3	2:gd:145:PRO:HD2	1.87	0.56
2:gg:62:GLN:CD	1:nt:104:CYS:HA	2.30	0.56
1:gj:87:ASP:HB3	2:gS:5:THR:HG22	1.87	0.56
1:gB:57:VAL:HG12	1:gB:59:VAL:HG13	1.88	0.56
2:gI:117:LEU:HD21	2:gI:211:TYR:CA	2.36	0.56
2:gV:243:TYR:O	2:gV:247:ARG:HG2	2.06	0.56
2:he:117:LEU:HD21	2:he:211:TYR:HA	1.88	0.56
2:he:298:LEU:HD12	2:he:298:LEU:O	2.06	0.56
2:hv:100:GLY:N	2:hv:101:PRO:CD	2.70	0.56
2:hw:243:TYR:O	2:hw:247:ARG:HG2	2.06	0.56
2:hJ:12:LEU:HD12	2:hJ:12:LEU:O	2.05	0.56
2:hK:165:ASP:HB3	2:hK:173:LEU:HD13	1.88	0.56
2:hS:215:SER:O	2:hS:216:ARG:NE	2.38	0.56
2:im:224:TRP:CZ2	2:im:242:VAL:HG11	2.41	0.56
2:iu:298:LEU:O	2:iu:298:LEU:HD12	2.06	0.56
2:iz:243:TYR:O	2:iz:247:ARG:HG2	2.06	0.56
1:iD:87:ASP:HB3	2:pv:5:THR:HG22	1.87	0.56
2:iK:15:SER:OG	2:iK:17:GLN:NE2	2.40	0.56
2:iW:188:MET:HA	2:iW:188:MET:HE3	1.87	0.56
2:jc:117:LEU:HD21	2:jc:211:TYR:CA	2.36	0.56
2:jc:197:LYS:CE	1:jj:100:LYS:N	2.60	0.56
2:jk:188:MET:HA	2:jk:188:MET:HE3	1.87	0.56
2:jB:86:VAL:HG11	2:jB:102:LEU:CD1	2.33	0.56
1:jF:100:LYS:HD2	2:pV:197:LYS:HZ2	1.69	0.56
2:jO:238:ASN:O	2:jO:242:VAL:HG23	2.06	0.56
2:jQ:100:GLY:N	2:jQ:101:PRO:CD	2.69	0.56
2:ka:188:MET:HA	2:ka:188:MET:HE3	1.87	0.56
2:ks:12:LEU:O	2:ks:12:LEU:HD12	2.05	0.56
2:lf:12:LEU:HD21	2:oH:96:LEU:HD12	1.88	0.56
2:lh:107:GLY:HA2	2:lh:184:TYR:HE1	1.66	0.56
2:lj:224:TRP:CZ2	2:lj:242:VAL:HG11	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lZ:224:TRP:CZ2	2:lZ:242:VAL:HG11	2.41	0.56
2:mj:12:LEU:HD21	2:nD:96:LEU:HD12	1.88	0.56
2:mj:238:ASN:O	2:mj:242:VAL:HG23	2.06	0.56
2:mk:63:ARG:HG2	2:nD:197:LYS:O	2.06	0.56
2:ml:100:GLY:N	2:ml:101:PRO:CD	2.70	0.56
2:mv:298:LEU:HD12	2:mv:298:LEU:O	2.06	0.56
2:mx:15:SER:OG	2:mx:17:GLN:NE2	2.39	0.56
1:mD:99:LEU:CD1	1:oP:102:GLU:CG	2.84	0.56
2:mN:197:LYS:O	2:no:63:ARG:HG2	2.06	0.56
1:nj:82:ASP:OD1	1:nj:83:GLY:N	2.39	0.56
1:ny:57:VAL:HG12	1:ny:59:VAL:HG13	1.88	0.56
1:oa:57:VAL:HG12	1:oa:59:VAL:HG13	1.88	0.56
2:ov:224:TRP:CZ2	2:ov:242:VAL:HG11	2.41	0.56
2:oR:298:LEU:HD12	2:oR:298:LEU:O	2.06	0.56
2:oX:224:TRP:CZ2	2:oX:242:VAL:HG11	2.41	0.56
2:ph:238:ASN:O	2:ph:242:VAL:HG23	2.06	0.56
2:pl:86:VAL:O	2:pl:202:GLN:N	2.37	0.56
2:pw:144:TYR:HB3	2:pw:145:PRO:HD2	1.86	0.56
2:pV:298:LEU:HD12	2:pV:298:LEU:O	2.06	0.56
3:qi:26:ALA:O	3:qi:27:ILE:HD13	2.06	0.56
3:qi:63:GLN:OE1	3:qi:64:GLY:N	2.38	0.56
4:qk:178:PHE:CE1	4:ql:39:LEU:HD23	2.41	0.56
5:qr:38:LYS:HD2	6:qu:137:ASP:O	2.06	0.56
5:qx:251:LEU:O	5:qx:255:VAL:HG23	2.06	0.56
5:qz:245:ASP:CG	6:qC:121:VAL:HG21	2.30	0.56
5:qB:38:LYS:HD2	6:qE:137:ASP:O	2.06	0.56
5:qF:235:ARG:NH2	5:qF:256:THR:O	2.39	0.56
6:qG:112:LEU:HD22	6:qI:58:LEU:CD1	1.04	0.56
5:qJ:251:LEU:O	5:qJ:255:VAL:HG23	2.06	0.56
2:ai:240:GLU:OE2	2:ai:291:ASN:ND2	2.40	0.55
2:aw:144:TYR:HB3	2:aw:145:PRO:HD2	1.87	0.55
2:az:86:VAL:O	2:az:202:GLN:N	2.37	0.55
2:aJ:232:GLU:O	2:aJ:237:VAL:HG23	2.05	0.55
2:aK:63:ARG:HG2	2:kT:197:LYS:O	2.07	0.55
1:aO:86:SER:O	1:aO:90:LEU:N	2.38	0.55
2:aX:232:GLU:O	2:aX:237:VAL:HG23	2.05	0.55
2:aX:240:GLU:OE2	2:aX:291:ASN:ND2	2.40	0.55
1:bd:104:CYS:HA	2:jc:62:GLN:OE1	2.07	0.55
2:bp:86:VAL:O	2:bp:202:GLN:N	2.37	0.55
1:bv:102:GLU:CG	1:dy:99:LEU:CD1	2.83	0.55
1:bw:98:LEU:HD13	2:by:64:VAL:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bM:240:GLU:OE2	2:bM:291:ASN:ND2	2.40	0.55
1:bR:86:SER:O	1:bR:90:LEU:N	2.38	0.55
2:ce:62:GLN:OE1	1:eQ:104:CYS:HA	2.07	0.55
2:co:238:ASN:O	2:co:242:VAL:HG23	2.06	0.55
2:cp:144:TYR:HB3	2:cp:145:PRO:HD2	1.86	0.55
2:cq:100:GLY:N	2:cq:101:PRO:CD	2.70	0.55
1:cy:102:GLU:CG	1:nH:99:LEU:CD1	2.84	0.55
1:cz:98:LEU:HD13	2:cB:64:VAL:HG22	1.87	0.55
2:cT:243:TYR:O	2:cT:247:ARG:HG2	2.06	0.55
2:de:238:ASN:O	2:de:242:VAL:HG23	2.06	0.55
2:df:86:VAL:HG11	2:df:102:LEU:CD1	2.33	0.55
2:dG:100:GLY:N	2:dG:101:PRO:CD	2.69	0.55
1:do:82:ASP:OD1	1:do:83:GLY:N	2.39	0.55
2:dG:238:ASN:O	2:dG:242:VAL:HG23	2.06	0.55
2:dI:96:LEU:HD12	2:gE:12:LEU:HD21	1.88	0.55
2:dJ:12:LEU:HD12	2:dJ:12:LEU:O	2.05	0.55
2:dW:100:GLY:N	2:dW:101:PRO:CD	2.69	0.55
2:ei:240:GLU:OE2	2:ei:291:ASN:ND2	2.40	0.55
2:el:12:LEU:HD12	2:el:12:LEU:O	2.05	0.55
2:eu:298:LEU:HD12	2:eu:298:LEU:O	2.06	0.55
1:eC:99:LEU:CD1	1:gO:102:GLU:CG	2.84	0.55
2:eL:63:ARG:HG2	2:ik:197:LYS:O	2.06	0.55
2:eL:144:TYR:HB3	2:eL:145:PRO:HD2	1.87	0.55
2:fk:188:MET:HA	2:fk:188:MET:HE3	1.87	0.55
2:fn:160:PHE:N	2:fn:304:ASN:OD1	2.39	0.55
2:fo:100:GLY:N	2:fo:101:PRO:CD	2.70	0.55
1:fw:82:ASP:OD1	1:fw:83:GLY:N	2.39	0.55
1:fL:102:GLU:HA	2:IU:198:GLU:CG	2.35	0.55
2:fO:15:SER:OG	2:fO:17:GLN:NE2	2.40	0.55
2:fO:238:ASN:O	2:fO:242:VAL:HG23	2.06	0.55
2:ge:100:GLY:N	2:ge:101:PRO:CD	2.70	0.55
2:ge:197:LYS:O	2:nC:63:ARG:HG2	2.06	0.55
1:gw:99:LEU:CD1	1:pd:102:GLU:CG	2.84	0.55
1:gA:102:GLU:CG	1:oZ:99:LEU:CD1	2.84	0.55
2:gE:15:SER:OG	2:gE:17:GLN:NE2	2.40	0.55
2:gW:36:THR:O	2:gW:175:THR:OG1	2.18	0.55
2:hk:224:TRP:CZ2	2:hk:242:VAL:HG11	2.41	0.55
2:hx:95:ASN:CB	5:qz:47:ARG:HE	2.14	0.55
2:hK:53:PHE:O	2:hK:255:ARG:NH2	2.36	0.55
2:hV:144:TYR:HB3	2:hV:145:PRO:HD2	1.86	0.55
2:ig:298:LEU:HD12	2:ig:298:LEU:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:io:99:LEU:CD1	1:on:102:GLU:CG	2.84	0.55
2:iy:100:GLY:N	2:iy:101:PRO:CD	2.69	0.55
2:iA:224:TRP:CZ2	2:iA:242:VAL:HG11	2.41	0.55
2:iI:188:MET:HA	2:iI:188:MET:HE3	1.87	0.55
2:iK:163:ALA:HB3	2:iK:265:VAL:HG12	1.88	0.55
2:iW:298:LEU:HD12	2:iW:298:LEU:O	2.06	0.55
2:iZ:63:ARG:HG2	2:kr:197:LYS:O	2.06	0.55
2:ja:100:GLY:N	2:ja:101:PRO:CD	2.70	0.55
2:jb:243:TYR:O	2:jb:247:ARG:HG2	2.06	0.55
2:jc:224:TRP:CZ2	2:jc:242:VAL:HG11	2.41	0.55
1:jj:57:VAL:HG12	1:jj:59:VAL:HG13	1.88	0.55
2:jE:224:TRP:CZ2	2:jE:242:VAL:HG11	2.41	0.55
1:jU:99:LEU:CD1	1:pT:102:GLU:CG	2.84	0.55
1:jZ:57:VAL:HG12	1:jZ:59:VAL:HG13	1.88	0.55
2:kg:62:GLN:OE1	1:mR:104:CYS:HA	2.07	0.55
2:ko:298:LEU:HD12	2:ko:298:LEU:O	2.06	0.55
2:kt:224:TRP:CZ2	2:kt:242:VAL:HG11	2.41	0.55
2:kD:5:THR:HG22	1:lO:87:ASP:HB3	1.87	0.55
2:lf:238:ASN:O	2:lf:242:VAL:HG23	2.06	0.55
2:lr:215:SER:O	2:lr:216:ARG:NE	2.38	0.55
2:lr:298:LEU:HD12	2:lr:298:LEU:O	2.06	0.55
2:lK:243:TYR:O	2:lK:247:ARG:HG2	2.06	0.55
2:lL:86:VAL:O	2:lL:202:GLN:N	2.37	0.55
2:mj:240:GLU:OE2	2:mj:291:ASN:ND2	2.40	0.55
2:mA:243:TYR:O	2:mA:247:ARG:HG2	2.06	0.55
2:mB:239:PHE:HE1	2:mB:294:LEU:HD22	1.69	0.55
1:mH:102:GLU:CG	1:oL:99:LEU:CD1	2.84	0.55
2:nE:243:TYR:O	2:nE:247:ARG:HG2	2.06	0.55
2:nQ:144:TYR:HB3	2:nQ:145:PRO:HD2	1.87	0.55
2:nR:100:GLY:N	2:nR:101:PRO:CD	2.69	0.55
2:nT:53:PHE:O	2:nT:255:ARG:NH2	2.36	0.55
2:oh:165:ASP:HB3	2:oh:173:LEU:HD13	1.88	0.55
1:oo:100:LYS:HZ1	1:qc:100:LYS:CE	2.19	0.55
2:op:197:LYS:HZ2	1:qc:100:LYS:HD2	1.71	0.55
2:ot:96:LEU:HD12	2:oT:12:LEU:HD21	1.88	0.55
2:oD:43:ALA:O	2:oD:44:SER:OG	2.20	0.55
2:oF:163:ALA:HB3	2:oF:265:VAL:HG12	1.88	0.55
2:oJ:224:TRP:CZ2	2:oJ:242:VAL:HG11	2.41	0.55
1:oK:86:SER:O	1:oK:90:LEU:N	2.38	0.55
2:oT:163:ALA:HB3	2:oT:265:VAL:HG12	1.88	0.55
2:px:100:GLY:N	2:px:101:PRO:CD	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pz:117:LEU:HD21	2:pz:211:TYR:CA	2.37	0.55
2:pH:117:LEU:HD21	2:pH:211:TYR:HA	1.88	0.55
3:qd:68:ALA:HA	4:qn:8:TYR:CZ	2.41	0.55
3:qe:68:ALA:HA	4:qm:8:TYR:CZ	2.40	0.55
5:qv:251:LEU:O	5:qv:255:VAL:HG23	2.06	0.55
5:qH:251:LEU:O	5:qH:255:VAL:HG23	2.06	0.55
6:qK:112:LEU:HD22	6:qM:58:LEU:CD1	1.03	0.55
2:ah:198:GLU:CG	1:oQ:102:GLU:HA	2.35	0.55
2:ai:12:LEU:HD21	2:np:96:LEU:HD12	1.88	0.55
2:av:240:GLU:OE2	2:av:291:ASN:ND2	2.40	0.55
2:ax:96:LEU:HD12	2:ds:12:LEU:HD21	1.88	0.55
2:ax:100:GLY:N	2:ax:101:PRO:CD	2.69	0.55
1:aG:98:LEU:HD13	2:aI:64:VAL:HG22	1.87	0.55
2:aJ:240:GLU:OE2	2:aJ:291:ASN:ND2	2.39	0.55
2:aY:63:ARG:HG2	2:cq:197:LYS:O	2.06	0.55
2:bb:165:ASP:HB3	2:bb:173:LEU:HD13	1.88	0.55
1:bq:86:SER:O	1:bq:90:LEU:N	2.38	0.55
2:by:132:ASP:OD2	2:by:143:VAL:HG22	2.07	0.55
2:bC:243:TYR:O	2:bC:247:ARG:HG2	2.06	0.55
1:bF:104:CYS:HA	2:gW:62:GLN:OE1	2.07	0.55
2:bN:63:ARG:HG2	2:gU:197:LYS:O	2.06	0.55
1:cz:57:VAL:HG12	1:cz:59:VAL:HG13	1.88	0.55
2:cE:100:GLY:N	2:cE:101:PRO:CD	2.69	0.55
2:cG:117:LEU:HD21	2:cG:211:TYR:CA	2.36	0.55
2:cU:117:LEU:HD21	2:cU:211:TYR:CA	2.37	0.55
1:da:105:THR:CG2	2:fo:60:ILE:HG23	2.35	0.55
2:di:88:ARG:NH2	2:di:200:ASP:OD1	2.40	0.55
1:dm:98:LEU:O	1:dm:98:LEU:HD23	2.05	0.55
1:dp:57:VAL:HG12	1:dp:59:VAL:HG13	1.88	0.55
2:dq:117:LEU:HD21	2:dq:211:TYR:HA	1.89	0.55
2:dq:189:LYS:HB2	2:dq:190:PRO:HD2	1.89	0.55
2:dq:215:SER:O	2:dq:216:ARG:NE	2.38	0.55
2:ds:240:GLU:OE2	2:ds:291:ASN:ND2	2.40	0.55
2:du:100:GLY:N	2:du:101:PRO:CD	2.69	0.55
2:dv:12:LEU:HD12	2:dv:12:LEU:O	2.05	0.55
1:dR:98:LEU:HD13	2:dT:64:VAL:HG22	1.87	0.55
2:ei:5:THR:HG22	1:ft:87:ASP:HB3	1.87	0.55
2:ei:238:ASN:O	2:ei:242:VAL:HG23	2.06	0.55
2:el:228:ALA:HB1	2:el:283:LEU:HD11	1.89	0.55
1:eo:104:CYS:HA	2:nT:62:GLN:OE1	2.07	0.55
1:ep:87:ASP:HB3	2:ph:5:THR:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ew:15:SER:OG	2:ew:17:GLN:NE2	2.39	0.55
2:eI:188:MET:HA	2:eI:188:MET:HE3	1.87	0.55
2:eJ:136:PHE:HZ	2:eJ:173:LEU:HD22	1.72	0.55
2:eK:238:ASN:O	2:eK:242:VAL:HG23	2.06	0.55
2:eX:221:PHE:HD1	2:eX:242:VAL:HG22	1.70	0.55
2:eY:238:ASN:O	2:eY:242:VAL:HG23	2.06	0.55
2:fa:100:GLY:N	2:fa:101:PRO:CD	2.70	0.55
2:fq:62:GLN:OE1	1:ia:104:CYS:HA	2.07	0.55
2:fE:117:LEU:HD21	2:fE:211:TYR:CA	2.36	0.55
2:fE:224:TRP:CZ2	2:fE:242:VAL:HG11	2.41	0.55
2:fM:298:LEU:HD12	2:fM:298:LEU:O	2.06	0.55
2:fQ:197:LYS:O	2:my:63:ARG:HG2	2.06	0.55
2:ga:117:LEU:HD21	2:ga:211:TYR:HA	1.88	0.55
2:gu:117:LEU:HD21	2:gu:211:TYR:CA	2.37	0.55
2:gF:160:PHE:N	2:gF:304:ASN:OD1	2.39	0.55
2:gG:100:GLY:N	2:gG:101:PRO:CD	2.70	0.55
2:gI:36:THR:O	2:gI:175:THR:OG1	2.18	0.55
2:gI:53:PHE:O	2:gI:255:ARG:NH2	2.35	0.55
2:gQ:215:SER:O	2:gQ:216:ARG:NE	2.38	0.55
2:gT:160:PHE:N	2:gT:304:ASN:OD1	2.39	0.55
2:gV:228:ALA:HB1	2:gV:283:LEU:HD11	1.89	0.55
1:gX:102:GLU:OE2	1:lS:99:LEU:HD21	2.06	0.55
2:hg:12:LEU:HD21	2:mz:96:LEU:HD12	1.88	0.55
2:hk:88:ARG:NH2	2:hk:200:ASP:OD1	2.40	0.55
1:hl:86:SER:O	1:hl:90:LEU:N	2.38	0.55
1:hn:102:GLU:HB2	1:kK:99:LEU:CD2	2.33	0.55
1:hq:102:GLU:CG	1:iQ:99:LEU:CD1	2.84	0.55
2:hs:43:ALA:O	2:hs:44:SER:OG	2.20	0.55
1:hy:100:LYS:HD2	2:hF:197:LYS:HZ2	1.70	0.55
1:hE:57:VAL:HG12	1:hE:59:VAL:HG13	1.88	0.55
2:hF:281:GLN:N	2:hF:281:GLN:OE1	2.38	0.55
2:hK:224:TRP:CZ2	2:hK:242:VAL:HG11	2.41	0.55
2:hT:221:PHE:HD1	2:hT:242:VAL:HG22	1.70	0.55
2:hU:238:ASN:O	2:hU:242:VAL:HG23	2.06	0.55
2:hV:160:PHE:N	2:hV:304:ASN:OD1	2.39	0.55
2:hW:100:GLY:N	2:hW:101:PRO:CD	2.69	0.55
1:if:98:LEU:HD13	2:ih:64:VAL:HG22	1.87	0.55
1:it:57:VAL:HG12	1:it:59:VAL:HG13	1.88	0.55
2:iw:240:GLU:OE2	2:iw:291:ASN:ND2	2.40	0.55
2:iy:96:LEU:HD12	2:lt:12:LEU:HD21	1.88	0.55
2:iy:197:LYS:O	2:lu:63:ARG:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iA:62:GLN:OE1	1:ll:104:CYS:HA	2.07	0.55
1:iE:98:LEU:O	1:iE:98:LEU:HD23	2.05	0.55
2:iK:238:ASN:O	2:iK:242:VAL:HG23	2.06	0.55
2:iM:100:GLY:N	2:iM:101:PRO:CD	2.69	0.55
2:iO:117:LEU:HD21	2:iO:211:TYR:CA	2.36	0.55
2:jC:86:VAL:O	2:jC:202:GLN:N	2.37	0.55
2:jC:239:PHE:HE1	2:jC:294:LEU:HD22	1.70	0.55
2:jl:136:PHE:HZ	2:jl:173:LEU:HD22	1.72	0.55
2:jC:100:GLY:N	2:jC:101:PRO:CD	2.69	0.55
2:jM:117:LEU:HD21	2:jM:211:TYR:HA	1.88	0.55
2:jR:243:TYR:O	2:jR:247:ARG:HG2	2.06	0.55
2:ka:197:LYS:HZ2	1:ly:100:LYS:HD2	1.71	0.55
2:ka:298:LEU:O	2:ka:298:LEU:HD12	2.06	0.55
2:kr:100:GLY:N	2:kr:101:PRO:CD	2.70	0.55
1:ku:86:SER:O	1:ku:90:LEU:N	2.38	0.55
2:kC:198:GLU:CG	1:kO:102:GLU:HA	2.35	0.55
2:kE:63:ARG:HG2	2:lX:197:LYS:O	2.07	0.55
2:kG:171:TYR:OH	2:kG:175:THR:OG1	2.12	0.55
2:kH:165:ASP:HB3	2:kH:173:LEU:HD13	1.88	0.55
1:kW:86:SER:O	1:kW:90:LEU:N	2.38	0.55
2:lh:197:LYS:O	2:ll:63:ARG:HG2	2.06	0.55
1:lp:82:ASP:OD1	1:lp:83:GLY:N	2.39	0.55
2:lv:96:LEU:HD12	2:pX:12:LEU:HD21	1.88	0.55
2:lw:228:ALA:HB1	2:lw:283:LEU:HD11	1.89	0.55
1:ID:82:ASP:OD1	1:ID:83:GLY:N	2.39	0.55
2:IV:238:ASN:O	2:IV:242:VAL:HG23	2.06	0.55
2:mi:221:PHE:HD1	2:mi:242:VAL:HG22	1.70	0.55
2:mJ:117:LEU:HD21	2:mJ:211:TYR:HA	1.88	0.55
2:mL:15:SER:OG	2:mL:17:GLN:NE2	2.39	0.55
2:mL:163:ALA:HB3	2:mL:265:VAL:HG12	1.88	0.55
2:mL:240:GLU:OE2	2:mL:291:ASN:ND2	2.40	0.55
2:mN:62:GLN:HE21	2:oW:197:LYS:HZ1	1.52	0.55
2:mO:243:TYR:O	2:mO:247:ARG:HG2	2.06	0.55
2:mP:117:LEU:HD21	2:mP:211:TYR:CA	2.37	0.55
2:mP:224:TRP:CZ2	2:mP:242:VAL:HG11	2.41	0.55
2:mX:298:LEU:HD12	2:mX:298:LEU:O	2.06	0.55
2:nd:165:ASP:HB3	2:nd:173:LEU:HD13	1.88	0.55
2:no:160:PHE:N	2:no:304:ASN:OD1	2.39	0.55
2:nr:36:THR:O	2:nr:175:THR:OG1	2.18	0.55
2:nr:117:LEU:HD21	2:nr:211:TYR:CA	2.36	0.55
1:nH:104:CYS:HA	2:pl:62:GLN:OE1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nP:163:ALA:HB3	2:nP:265:VAL:HG12	1.88	0.55
2:oc:221:PHE:HD1	2:oc:242:VAL:HG22	1.70	0.55
2:od:117:LEU:HD21	2:od:211:TYR:HA	1.88	0.55
2:oe:221:PHE:HD1	2:oe:242:VAL:HG22	1.70	0.55
2:ol:12:LEU:O	2:ol:12:LEU:HD12	2.05	0.55
1:oQ:57:VAL:HG12	1:oQ:59:VAL:HG13	1.88	0.55
1:oQ:98:LEU:HD13	2:oS:64:VAL:HG22	1.87	0.55
1:pe:57:VAL:HG12	1:pe:59:VAL:HG13	1.88	0.55
2:ph:232:GLU:O	2:ph:237:VAL:HG23	2.05	0.55
2:pl:117:LEU:HD21	2:pl:211:TYR:CA	2.37	0.55
2:pl:165:ASP:HB3	2:pl:173:LEU:HD13	1.88	0.55
2:pK:160:PHE:N	2:pK:304:ASN:OD1	2.39	0.55
2:pW:221:PHE:HD1	2:pW:242:VAL:HG22	1.70	0.55
2:qb:224:TRP:CZ2	2:qb:242:VAL:HG11	2.41	0.55
3:qd:60:ALA:C	4:qn:33:SER:OG	2.50	0.55
3:qd:61:ASP:CB	4:qn:33:SER:CB	2.82	0.55
3:qf:68:ALA:CA	4:ql:8:TYR:OH	2.54	0.55
4:qj:39:LEU:HD23	4:qo:178:PHE:CE1	2.41	0.55
6:qq:17:LYS:HE3	6:qs:81:ILE:HG21	1.89	0.55
6:qq:112:LEU:HD22	6:qs:58:LEU:CD1	1.04	0.55
6:qs:112:LEU:HD22	6:qu:58:LEU:CD1	1.04	0.55
5:qt:38:LYS:HD2	6:qw:137:ASP:O	2.06	0.55
1:ae:105:THR:CG2	2:fC:60:ILE:HG23	2.35	0.55
2:av:163:ALA:HB3	2:av:265:VAL:HG12	1.88	0.55
2:az:62:GLN:CD	1:dk:104:CYS:HA	2.30	0.55
1:aA:102:GLU:OE2	1:kn:99:LEU:HD21	2.06	0.55
2:aH:298:LEU:HD12	2:aH:298:LEU:O	2.06	0.55
2:aL:60:ILE:HG23	1:mV:105:THR:CG2	2.35	0.55
2:aN:62:GLN:OE1	1:hm:104:CYS:HA	2.07	0.55
2:aN:165:ASP:HB3	2:aN:173:LEU:HD13	1.88	0.55
1:aU:100:LYS:HZ1	1:iP:100:LYS:CE	2.19	0.55
2:aV:189:LYS:HB2	2:aV:190:PRO:HD2	1.89	0.55
2:ba:12:LEU:HD12	2:ba:12:LEU:O	2.05	0.55
1:bh:82:ASP:OD1	1:bh:83:GLY:N	2.39	0.55
2:bl:12:LEU:HD21	2:ja:96:LEU:HD12	1.88	0.55
2:bn:100:GLY:N	2:bn:101:PRO:CD	2.69	0.55
2:bY:189:LYS:HB2	2:bY:190:PRO:HD2	1.89	0.55
2:bZ:136:PHE:HZ	2:bZ:173:LEU:HD22	1.72	0.55
2:ca:240:GLU:OE2	2:ca:291:ASN:ND2	2.39	0.55
1:ck:82:ASP:OD1	1:ck:83:GLY:N	2.39	0.55
2:co:15:SER:OG	2:co:17:GLN:NE2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cs:224:TRP:CZ2	2:cs:242:VAL:HG11	2.41	0.55
1:cu:104:CYS:HA	2:dY:62:GLN:CD	2.30	0.55
2:cC:163:ALA:HB3	2:cC:265:VAL:HG12	1.88	0.55
2:cG:209:TYR:OH	2:cO:93:ASP:OD2	2.22	0.55
2:dd:221:PHE:HD1	2:dd:242:VAL:HG22	1.70	0.55
2:dh:228:ALA:HB1	2:dh:283:LEU:HD11	1.88	0.55
2:dE:298:LEU:HD12	2:dE:298:LEU:O	2.06	0.55
2:dK:36:THR:O	2:dK:175:THR:OG1	2.18	0.55
1:dL:86:SER:O	1:dL:90:LEU:N	2.38	0.55
2:dT:132:ASP:OD2	2:dT:143:VAL:HG22	2.07	0.55
2:dX:12:LEU:O	2:dX:12:LEU:HD12	2.05	0.55
2:eg:43:ALA:O	2:eg:44:SER:OG	2.20	0.55
2:ek:100:GLY:N	2:ek:101:PRO:CD	2.69	0.55
2:ek:197:LYS:O	2:oe:63:ARG:HG2	2.06	0.55
2:el:243:TYR:O	2:el:247:ARG:HG2	2.06	0.55
2:em:117:LEU:HD21	2:em:211:TYR:CA	2.36	0.55
1:es:82:ASP:OD1	1:es:83:GLY:N	2.39	0.55
2:ey:100:GLY:N	2:ey:101:PRO:CD	2.69	0.55
2:eA:88:ARG:NH2	2:eA:200:ASP:OD1	2.40	0.55
1:eB:102:GLU:OE2	1:gB:99:LEU:HD21	2.06	0.55
2:eX:132:ASP:OD2	2:eX:143:VAL:HG22	2.07	0.55
2:eY:163:ALA:HB3	2:eY:265:VAL:HG12	1.88	0.55
2:fl:136:PHE:HZ	2:fl:173:LEU:HD22	1.72	0.55
2:fp:243:TYR:O	2:fp:247:ARG:HG2	2.06	0.55
1:fs:104:CYS:HA	2:oh:62:GLN:CD	2.30	0.55
2:fD:243:TYR:O	2:fD:247:ARG:HG2	2.06	0.55
2:fN:136:PHE:HZ	2:fN:173:LEU:HD22	1.72	0.55
2:fO:240:GLU:OE2	2:fO:291:ASN:ND2	2.40	0.55
2:fR:228:ALA:HB1	2:fR:283:LEU:HD11	1.88	0.55
2:gd:63:ARG:HG2	2:ml:197:LYS:O	2.06	0.55
1:gn:98:LEU:HD13	2:gp:64:VAL:HG22	1.87	0.55
2:gs:197:LYS:O	2:gT:63:ARG:HG2	2.07	0.55
2:gI:165:ASP:HB3	2:gI:173:LEU:HD13	1.88	0.55
2:gI:224:TRP:CZ2	2:gI:242:VAL:HG11	2.41	0.55
2:gQ:188:MET:HE3	2:gQ:188:MET:HA	1.87	0.55
1:gX:100:LYS:CE	1:lS:100:LYS:HZ1	2.20	0.55
2:hh:63:ARG:HG2	2:mz:197:LYS:O	2.06	0.55
2:hK:239:PHE:HE1	2:hK:294:LEU:HD22	1.69	0.55
2:hX:243:TYR:O	2:hX:247:ARG:HG2	2.06	0.55
2:ig:117:LEU:HD21	2:ig:211:TYR:HA	1.88	0.55
2:iu:189:LYS:HB2	2:iu:190:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iM:5:THR:O	2:iM:5:THR:HG23	2.03	0.55
2:iO:86:VAL:O	2:iO:202:GLN:N	2.37	0.55
2:jp:12:LEU:HD12	2:jp:12:LEU:O	2.05	0.55
2:jA:163:ALA:HB3	2:jA:265:VAL:HG12	1.88	0.55
1:jI:98:LEU:O	1:jI:98:LEU:HD23	2.05	0.55
2:jN:136:PHE:HZ	2:jN:173:LEU:HD22	1.72	0.55
2:jO:12:LEU:HD21	2:oV:96:LEU:HD12	1.88	0.55
1:km:82:ASP:OD1	1:km:83:GLY:N	2.39	0.55
1:kn:57:VAL:HG12	1:kn:59:VAL:HG13	1.88	0.55
2:kp:163:ALA:HB3	2:kp:265:VAL:HG12	1.88	0.55
2:kt:88:ARG:NH2	2:kt:200:ASP:OD1	2.40	0.55
2:kH:88:ARG:NH2	2:kH:200:ASP:OD1	2.40	0.55
2:kR:15:SER:OG	2:kR:17:GLN:NE2	2.39	0.55
2:kR:163:ALA:HB3	2:kR:265:VAL:HG12	1.88	0.55
2:kU:243:TYR:O	2:kU:247:ARG:HG2	2.06	0.55
2:kV:224:TRP:CZ2	2:kV:242:VAL:HG11	2.41	0.55
2:ld:117:LEU:HD21	2:ld:211:TYR:HA	1.88	0.55
2:le:136:PHE:HZ	2:le:173:LEU:HD22	1.72	0.55
2:lf:15:SER:OG	2:lf:17:GLN:NE2	2.40	0.55
2:lg:63:ARG:HG2	2:oH:197:LYS:O	2.07	0.55
2:li:228:ALA:HB1	2:li:283:LEU:HD11	1.89	0.55
2:lr:189:LYS:HB2	2:lr:190:PRO:HD2	1.89	0.55
2:lv:197:LYS:O	2:pY:63:ARG:HG2	2.06	0.55
2:lv:219:VAL:HG23	2:lv:259:ILE:HD12	1.86	0.55
2:lx:62:GLN:OE1	1:pP:104:CYS:HA	2.07	0.55
2:lG:132:ASP:OD2	2:lG:143:VAL:HG22	2.07	0.55
2:IL:165:ASP:HB3	2:IL:173:LEU:HD13	1.88	0.55
1:lS:98:LEU:HD13	2:lU:64:VAL:HG22	1.87	0.55
2:IV:240:GLU:OE2	2:IV:291:ASN:ND2	2.40	0.55
2:lZ:88:ARG:NH2	2:lZ:200:ASP:OD1	2.40	0.55
2:mm:228:ALA:HB1	2:mm:283:LEU:HD11	1.88	0.55
1:mE:87:ASP:HB3	2:nn:5:THR:HG22	1.87	0.55
2:mY:132:ASP:OD2	2:mY:143:VAL:HG22	2.07	0.55
2:mZ:15:SER:OG	2:mZ:17:GLN:NE2	2.40	0.55
2:nc:243:TYR:O	2:nc:247:ARG:HG2	2.06	0.55
2:nd:117:LEU:HD21	2:nd:211:TYR:CA	2.36	0.55
2:nn:15:SER:OG	2:nn:17:GLN:NE2	2.40	0.55
2:np:100:GLY:N	2:np:101:PRO:CD	2.70	0.55
2:nq:12:LEU:HD12	2:nq:12:LEU:O	2.05	0.55
2:nq:228:ALA:HB1	2:nq:283:LEU:HD11	1.88	0.55
2:nF:224:TRP:CZ2	2:nF:242:VAL:HG11	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:of:100:GLY:N	2:of:101:PRO:CD	2.70	0.55
2:oh:224:TRP:CZ2	2:oh:242:VAL:HG11	2.41	0.55
2:or:15:SER:OG	2:or:17:GLN:NE2	2.39	0.55
2:or:238:ASN:O	2:or:242:VAL:HG23	2.06	0.55
2:ot:100:GLY:N	2:ot:101:PRO:CD	2.70	0.55
2:ot:197:LYS:O	2:oU:63:ARG:HG2	2.06	0.55
2:oJ:88:ARG:NH2	2:oJ:200:ASP:OD1	2.40	0.55
2:oJ:117:LEU:HD21	2:oJ:211:TYR:CA	2.36	0.55
2:oX:88:ARG:NH2	2:oX:200:ASP:OD1	2.40	0.55
2:pf:189:LYS:HB2	2:pf:190:PRO:HD2	1.89	0.55
2:pl:88:ARG:NH2	2:pl:200:ASP:OD1	2.40	0.55
2:pu:132:ASP:OD2	2:pu:143:VAL:HG22	2.07	0.55
2:pu:198:GLU:CG	1:pG:102:GLU:HA	2.35	0.55
2:pJ:163:ALA:HB3	2:pJ:265:VAL:HG12	1.88	0.55
2:pN:165:ASP:HB3	2:pN:173:LEU:HD13	1.88	0.55
2:qa:243:TYR:O	2:qa:247:ARG:HG2	2.06	0.55
3:qh:68:ALA:CA	4:qj:8:TYR:OH	2.54	0.55
4:qj:116:PHE:CD1	4:qk:202:ILE:HD13	2.26	0.55
4:qm:116:PHE:CD1	4:qn:202:ILE:HD13	2.26	0.55
6:qq:58:LEU:CD1	6:qM:112:LEU:HD22	1.04	0.55
6:qq:121:VAL:HG21	5:qL:245:ASP:CG	2.30	0.55
6:qs:17:LYS:HE3	6:qu:81:ILE:HG21	1.89	0.55
5:qz:38:LYS:HD2	6:qC:137:ASP:O	2.06	0.55
6:qE:112:LEU:HD22	6:qG:58:LEU:CD1	1.03	0.55
5:qF:229:ILE:HD13	5:qH:232:LEU:HD21	1.85	0.55
2:aj:144:TYR:HB3	2:aj:145:PRO:HD2	1.87	0.55
2:al:278:VAL:HG11	2:al:295:VAL:O	2.05	0.55
2:am:117:LEU:HD21	2:am:211:TYR:CA	2.37	0.55
1:as:102:GLU:CG	1:gi:99:LEU:CD1	2.84	0.55
2:aN:86:VAL:O	2:aN:202:GLN:N	2.37	0.55
1:aT:82:ASP:OD1	1:aT:83:GLY:N	2.39	0.55
2:bb:88:ARG:NH2	2:bb:200:ASP:OD1	2.40	0.55
1:bh:105:THR:CG2	2:jo:60:ILE:HG23	2.35	0.55
2:bj:298:LEU:HD12	2:bj:298:LEU:O	2.06	0.55
2:bm:63:ARG:HG2	2:ja:197:LYS:O	2.06	0.55
1:br:99:LEU:CD1	1:dC:102:GLU:CG	2.84	0.55
2:bx:189:LYS:HB2	2:bx:190:PRO:HD2	1.89	0.55
2:bC:228:ALA:HB1	2:bC:283:LEU:HD11	1.89	0.55
1:bJ:105:THR:CG2	2:IX:60:ILE:HG23	2.35	0.55
2:bN:144:TYR:HB3	2:bN:145:PRO:HD2	1.87	0.55
2:bZ:132:ASP:OD2	2:bZ:143:VAL:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cy:105:THR:CG2	2:nR:60:ILE:HG23	2.35	0.55
2:cA:215:SER:O	2:cA:216:ARG:NE	2.38	0.55
2:cE:96:LEU:HD12	2:pJ:12:LEU:HD21	1.88	0.55
1:cI:104:CYS:HA	2:pz:62:GLN:OE1	2.07	0.55
1:cJ:102:GLU:HB2	1:iD:99:LEU:CD2	2.33	0.55
2:cO:189:LYS:HB2	2:cO:190:PRO:HD2	1.89	0.55
2:cQ:163:ALA:HB3	2:cQ:265:VAL:HG12	1.88	0.55
2:di:165:ASP:HB3	2:di:173:LEU:HD13	1.88	0.55
2:di:224:TRP:CZ2	2:di:242:VAL:HG11	2.41	0.55
2:ds:238:ASN:O	2:ds:242:VAL:HG23	2.06	0.55
2:du:197:LYS:O	2:hV:63:ARG:HG2	2.06	0.55
1:dC:82:ASP:OD1	1:dC:83:GLY:N	2.39	0.55
1:dQ:105:THR:CG2	2:jQ:60:ILE:HG23	2.35	0.55
2:dU:238:ASN:O	2:dU:242:VAL:HG23	2.06	0.55
2:dX:228:ALA:HB1	2:dX:283:LEU:HD11	1.89	0.55
2:em:62:GLN:OE1	1:nV:104:CYS:HA	2.06	0.55
2:eA:224:TRP:CZ2	2:eA:242:VAL:HG11	2.41	0.55
2:eK:163:ALA:HB3	2:eK:265:VAL:HG12	1.88	0.55
2:eM:197:LYS:O	2:fn:63:ARG:HG2	2.07	0.55
2:eO:62:GLN:OE1	1:fe:104:CYS:HA	2.06	0.55
2:fq:165:ASP:HB3	2:fq:173:LEU:HD13	1.88	0.55
1:fG:99:LEU:CD1	1:kz:102:GLU:CG	2.84	0.55
1:fZ:98:LEU:HD13	2:gb:64:VAL:HG22	1.87	0.55
2:ga:189:LYS:HB2	2:ga:190:PRO:HD2	1.89	0.55
2:gc:5:THR:HG22	1:mc:87:ASP:HB3	1.87	0.55
2:gc:15:SER:OG	2:gc:17:GLN:NE2	2.39	0.55
1:gm:82:ASP:OD1	1:gm:83:GLY:N	2.39	0.55
2:gt:243:TYR:O	2:gt:247:ARG:HG2	2.06	0.55
2:gu:62:GLN:OE1	1:gK:104:CYS:HA	2.07	0.55
2:gC:189:LYS:HB2	2:gC:190:PRO:HD2	1.89	0.55
2:gU:100:GLY:N	2:gU:101:PRO:CD	2.69	0.55
2:gW:117:LEU:HD21	2:gW:211:TYR:CA	2.36	0.55
2:gW:224:TRP:CZ2	2:gW:242:VAL:HG11	2.41	0.55
1:hd:99:LEU:HD21	1:lM:102:GLU:OE2	2.06	0.55
1:hl:102:GLU:OE2	1:kA:99:LEU:HD21	2.06	0.55
1:hn:87:ASP:HB3	2:kR:5:THR:HG22	1.87	0.55
1:hq:105:THR:CG2	2:ja:60:ILE:HG23	2.35	0.55
2:hs:169:ALA:C	5:qz:178:PRO:CG	2.78	0.55
2:ht:238:ASN:O	2:ht:242:VAL:HG23	2.06	0.55
1:hA:99:LEU:CD2	1:kw:102:GLU:HB2	2.33	0.55
2:hK:62:GLN:OE1	1:lN:104:CYS:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hR:98:LEU:HD13	2:hT:64:VAL:HG22	1.87	0.55
2:hY:117:LEU:HD21	2:hY:211:TYR:CA	2.36	0.55
2:il:243:TYR:O	2:il:247:ARG:HG2	2.06	0.55
1:iG:82:ASP:OD1	1:iG:83:GLY:N	2.39	0.55
2:iI:189:LYS:HB2	2:iI:190:PRO:HD2	1.89	0.55
1:iV:57:VAL:HG12	1:iV:59:VAL:HG13	1.89	0.55
2:iY:5:THR:HG22	1:kj:87:ASP:HB3	1.87	0.55
2:jc:88:ARG:NH2	2:jc:200:ASP:OD1	2.40	0.55
2:jB:144:TYR:HB3	2:jB:145:PRO:HD2	1.87	0.55
2:jE:88:ARG:NH2	2:jE:200:ASP:OD1	2.40	0.55
1:jL:57:VAL:HG12	1:jL:59:VAL:HG13	1.88	0.55
2:jM:298:LEU:HD12	2:jM:298:LEU:O	2.06	0.55
2:jQ:197:LYS:O	2:os:63:ARG:HG2	2.06	0.55
1:jZ:98:LEU:HD13	2:kb:64:VAL:HG22	1.87	0.55
2:kf:243:TYR:O	2:kf:247:ARG:HG2	2.06	0.55
2:kt:101:PRO:HG3	5:qD:54:GLN:OE1	2.06	0.55
2:kD:238:ASN:O	2:kD:242:VAL:HG23	2.06	0.55
2:kH:209:TYR:OH	2:kP:93:ASP:OD2	2.22	0.55
2:kP:215:SER:O	2:kP:216:ARG:NE	2.38	0.55
2:kR:240:GLU:OE2	2:kR:291:ASN:ND2	2.40	0.55
2:kU:228:ALA:HB1	2:kU:283:LEU:HD11	1.88	0.55
2:lj:165:ASP:HB3	2:lj:173:LEU:HD13	1.88	0.55
2:lw:12:LEU:HD12	2:lw:12:LEU:O	2.05	0.55
2:lF:189:LYS:HB2	2:lF:190:PRO:HD2	1.89	0.55
2:lI:160:PHE:N	2:lI:304:ASN:OD1	2.39	0.55
2:lJ:100:GLY:N	2:lJ:101:PRO:CD	2.70	0.55
2:lV:15:SER:OG	2:lV:17:GLN:NE2	2.40	0.55
1:mb:104:CYS:HA	2:nF:62:GLN:OE1	2.06	0.55
2:mL:238:ASN:O	2:mL:242:VAL:HG23	2.06	0.55
2:mM:144:TYR:HB3	2:mM:145:PRO:HD2	1.86	0.55
2:na:160:PHE:N	2:na:304:ASN:OD1	2.39	0.55
2:nd:88:ARG:NH2	2:nd:200:ASP:OD1	2.40	0.55
1:ne:86:SER:O	1:ne:90:LEU:N	2.38	0.55
2:nr:165:ASP:HB3	2:nr:173:LEU:HD13	1.88	0.55
2:oc:136:PHE:HZ	2:oc:173:LEU:HD22	1.72	0.55
2:oh:239:PHE:HE1	2:oh:294:LEU:HD22	1.69	0.55
2:op:43:ALA:O	2:op:44:SER:OG	2.20	0.55
2:ou:243:TYR:O	2:ou:247:ARG:HG2	2.06	0.55
2:oF:240:GLU:OE2	2:oF:291:ASN:ND2	2.40	0.55
1:oP:82:ASP:OD1	1:oP:83:GLY:N	2.39	0.55
2:oT:15:SER:OG	2:oT:17:GLN:NE2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oT:240:GLU:OE2	2:oT:291:ASN:ND2	2.40	0.55
2:pf:187:ARG:HD2	2:pf:203:VAL:HG22	1.86	0.55
2:pt:298:LEU:HD12	2:pt:298:LEU:O	2.06	0.55
2:pv:15:SER:OG	2:pv:17:GLN:NE2	2.39	0.55
2:pJ:238:ASN:O	2:pJ:242:VAL:HG23	2.06	0.55
2:pL:100:GLY:N	2:pL:101:PRO:CD	2.70	0.55
2:pN:117:LEU:HD21	2:pN:211:TYR:CA	2.36	0.55
1:pO:86:SER:O	1:pO:90:LEU:N	2.38	0.55
2:pX:238:ASN:O	2:pX:242:VAL:HG23	2.06	0.55
2:pX:240:GLU:OE2	2:pX:291:ASN:ND2	2.40	0.55
3:qd:61:ASP:CB	4:qn:33:SER:HB2	2.34	0.55
3:qe:66:GLN:O	4:qm:10:GLN:HG3	2.06	0.55
3:qf:92:GLU:O	6:qA:27:LYS:NZ	2.37	0.55
4:qj:178:PHE:CE1	4:qk:39:LEU:HD23	2.41	0.55
5:qv:38:LYS:HD2	6:qy:137:ASP:O	2.06	0.55
5:qx:38:LYS:HD2	6:qA:137:ASP:O	2.06	0.55
6:qA:112:LEU:HD22	6:qC:58:LEU:CD1	1.04	0.55
6:qC:112:LEU:HD22	6:qE:58:LEU:CD1	1.03	0.55
5:qL:235:ARG:NH2	5:qL:256:THR:O	2.39	0.55
2:am:88:ARG:NH2	2:am:200:ASP:OD1	2.40	0.55
1:an:100:LYS:CE	1:oQ:100:LYS:HZ1	2.19	0.55
1:ao:99:LEU:CD1	1:gm:102:GLU:CG	2.84	0.55
1:at:100:LYS:HZ1	1:bR:100:LYS:CE	2.19	0.55
2:aN:117:LEU:HD21	2:aN:211:TYR:CA	2.37	0.55
2:aN:224:TRP:CZ2	2:aN:242:VAL:HG11	2.41	0.55
1:aP:99:LEU:CD1	1:pr:102:GLU:CG	2.84	0.55
2:ba:228:ALA:HB1	2:ba:283:LEU:HD11	1.89	0.55
2:bb:62:GLN:OE1	1:je:104:CYS:HA	2.07	0.55
1:bi:57:VAL:HG12	1:bi:59:VAL:HG13	1.89	0.55
1:bv:82:ASP:OD1	1:bv:83:GLY:N	2.39	0.55
2:bx:298:LEU:HD12	2:bx:298:LEU:O	2.06	0.55
2:bD:88:ARG:NH2	2:bD:200:ASP:OD1	2.40	0.55
2:bO:96:LEU:HD12	2:gq:12:LEU:HD21	1.88	0.55
2:bQ:165:ASP:HB3	2:bQ:173:LEU:HD13	1.87	0.55
2:cc:96:LEU:HD12	2:eY:12:LEU:HD21	1.88	0.55
2:ce:224:TRP:CZ2	2:ce:242:VAL:HG11	2.41	0.55
1:cg:104:CYS:HA	2:jQ:62:GLN:OE1	2.07	0.55
2:cn:132:ASP:OD2	2:cn:143:VAL:HG22	2.07	0.55
2:cs:117:LEU:HD21	2:cs:211:TYR:CA	2.37	0.55
2:cB:132:ASP:OD2	2:cB:143:VAL:HG22	2.07	0.55
2:cP:136:PHE:HZ	2:cP:173:LEU:HD22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cS:96:LEU:HD12	2:iK:12:LEU:HD21	1.88	0.55
2:cU:62:GLN:OE1	1:iC:104:CYS:HA	2.06	0.55
1:cV:100:LYS:CE	1:eV:100:LYS:HZ1	2.20	0.55
1:db:57:VAL:HG12	1:db:59:VAL:HG13	1.88	0.55
2:dK:14:THR:HG23	2:eX:12:LEU:HD21	1.89	0.55
1:dQ:102:GLU:CG	1:jG:99:LEU:CD1	2.84	0.55
1:dR:99:LEU:HD21	1:oY:102:GLU:OE2	2.06	0.55
1:ee:82:ASP:OD1	1:ee:83:GLY:N	2.39	0.55
2:ej:63:ARG:HG2	2:fC:197:LYS:O	2.06	0.55
2:ev:132:ASP:OD2	2:ev:143:VAL:HG22	2.07	0.55
2:ew:5:THR:HG22	1:nI:87:ASP:HB3	1.87	0.55
2:ex:63:ARG:HG2	2:nR:197:LYS:O	2.06	0.55
2:eI:189:LYS:HB2	2:eI:190:PRO:HD2	1.89	0.55
2:eO:224:TRP:CZ2	2:eO:242:VAL:HG11	2.41	0.55
2:fb:228:ALA:HB1	2:fb:283:LEU:HD11	1.88	0.55
2:fq:209:TYR:OH	2:nz:93:ASP:OD2	2.22	0.55
2:fA:240:GLU:OE2	2:fA:291:ASN:ND2	2.39	0.55
2:fN:12:LEU:HD21	2:gg:14:THR:HG23	1.89	0.55
2:fN:221:PHE:HD1	2:fN:242:VAL:HG22	1.70	0.55
1:fY:102:GLU:CG	1:mp:99:LEU:CD1	2.83	0.55
2:ge:107:GLY:HA2	2:ge:184:TYR:HE1	1.66	0.55
2:gf:228:ALA:HB1	2:gf:283:LEU:HD11	1.89	0.55
2:go:117:LEU:HD21	2:go:211:TYR:HA	1.88	0.55
2:go:298:LEU:HD12	2:go:298:LEU:O	2.06	0.55
2:gR:132:ASP:OD2	2:gR:143:VAL:HG22	2.07	0.55
2:gS:15:SER:OG	2:gS:17:GLN:NE2	2.40	0.55
2:gW:88:ARG:NH2	2:gW:200:ASP:OD1	2.40	0.55
2:hg:238:ASN:O	2:hg:242:VAL:HG23	2.06	0.55
2:hk:117:LEU:HD21	2:hk:211:TYR:CA	2.36	0.55
2:hs:182:LEU:CD1	5:qB:176:ASN:C	2.79	0.55
2:hS:189:LYS:HB2	2:hS:190:PRO:HD2	1.89	0.55
2:hY:165:ASP:HB3	2:hY:173:LEU:HD13	1.88	0.55
1:if:57:VAL:HG12	1:if:59:VAL:HG13	1.88	0.55
2:ii:238:ASN:O	2:ii:242:VAL:HG23	2.06	0.55
2:iA:62:GLN:CD	1:ll:104:CYS:HA	2.30	0.55
1:iH:57:VAL:HG12	1:iH:59:VAL:HG13	1.88	0.55
2:iO:165:ASP:HB3	2:iO:173:LEU:HD13	1.88	0.55
1:iV:98:LEU:HD13	2:iX:64:VAL:HG22	1.87	0.55
2:jk:189:LYS:HB2	2:jk:190:PRO:HD2	1.89	0.55
2:jm:15:SER:OG	2:jm:17:GLN:NE2	2.39	0.55
2:jo:100:GLY:N	2:jo:101:PRO:CD	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jp:243:TYR:O	2:jp:247:ARG:HG2	2.06	0.55
1:jt:87:ASP:HB3	2:kc:5:THR:HG22	1.87	0.55
1:jx:99:LEU:HD21	1:lk:102:GLU:OE2	2.06	0.55
2:jA:240:GLU:OE2	2:jA:291:ASN:ND2	2.40	0.55
2:jB:274:ALA:CB	2:jB:297:VAL:HG21	2.37	0.55
2:jM:189:LYS:HB2	2:jM:190:PRO:HD2	1.89	0.55
2:ks:243:TYR:O	2:ks:247:ARG:HG2	2.06	0.55
2:kD:15:SER:OG	2:kD:17:GLN:NE2	2.39	0.55
2:kG:228:ALA:HB1	2:kG:283:LEU:HD11	1.88	0.55
2:kH:117:LEU:HD21	2:kH:211:TYR:CA	2.36	0.55
1:kN:82:ASP:OD1	1:kN:83:GLY:N	2.39	0.55
2:kQ:132:ASP:OD2	2:kQ:143:VAL:HG22	2.07	0.55
2:le:221:PHE:HD1	2:le:242:VAL:HG22	1.70	0.55
2:lG:136:PHE:HZ	2:lG:173:LEU:HD22	1.72	0.55
2:lL:224:TRP:CZ2	2:lL:242:VAL:HG11	2.41	0.55
1:mg:98:LEU:HD13	2:mi:64:VAL:HG22	1.87	0.55
2:mh:298:LEU:HD12	2:mh:298:LEU:O	2.06	0.55
1:mo:86:SER:O	1:mo:90:LEU:N	2.38	0.55
1:mp:102:GLU:OE1	2:mx:197:LYS:NZ	2.29	0.55
2:mA:228:ALA:HB1	2:mA:283:LEU:HD11	1.89	0.55
2:mJ:215:SER:O	2:mJ:216:ARG:NE	2.38	0.55
2:mN:107:GLY:HA2	2:mN:184:TYR:HE1	1.66	0.55
2:nB:163:ALA:HB3	2:nB:265:VAL:HG12	1.88	0.55
2:nP:15:SER:OG	2:nP:17:GLN:NE2	2.40	0.55
2:nP:238:ASN:O	2:nP:242:VAL:HG23	2.06	0.55
2:nS:243:TYR:O	2:nS:247:ARG:HG2	2.06	0.55
2:oh:88:ARG:NH2	2:oh:200:ASP:OD1	2.40	0.55
2:op:189:LYS:HB2	2:op:190:PRO:HD2	1.89	0.55
2:oq:132:ASP:OD2	2:oq:143:VAL:HG22	2.07	0.55
2:oq:221:PHE:HD1	2:oq:242:VAL:HG22	1.70	0.55
2:os:160:PHE:N	2:os:304:ASN:OD1	2.39	0.55
2:oF:238:ASN:O	2:oF:242:VAL:HG23	2.06	0.55
2:oS:136:PHE:HZ	2:oS:173:LEU:HD22	1.72	0.55
2:qb:88:ARG:NH2	2:qb:200:ASP:OD1	2.40	0.55
3:qd:14:LEU:HD23	3:qd:114:PRO:HB3	1.87	0.55
3:qf:9:PHE:O	3:qg:95:ARG:NH2	2.39	0.55
3:qf:65:GLY:C	4:ql:10:GLN:CG	2.69	0.55
3:qf:68:ALA:CA	4:ql:8:TYR:CZ	2.89	0.55
6:qq:81:ILE:HG21	6:qM:17:LYS:HE3	1.89	0.55
5:qr:251:LEU:O	5:qr:255:VAL:HG23	2.06	0.55
2:aj:274:ALA:CB	2:aj:297:VAL:HG21	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ak:197:LYS:O	2:mM:63:ARG:HG2	2.06	0.55
2:al:243:TYR:O	2:al:247:ARG:HG2	2.06	0.55
2:aw:186:GLU:O	2:ds:191:SER:OG	2.08	0.55
1:aG:57:VAL:HG12	1:aG:59:VAL:HG13	1.88	0.55
2:aH:189:LYS:HB2	2:aH:190:PRO:HD2	1.89	0.55
2:aJ:163:ALA:HB3	2:aJ:265:VAL:HG12	1.88	0.55
2:aL:100:GLY:N	2:aL:101:PRO:CD	2.70	0.55
1:aO:83:GLY:HA3	2:kb:8:LEU:CD1	2.37	0.55
1:aP:104:CYS:HA	2:cs:62:GLN:OE1	2.07	0.55
1:aU:98:LEU:HD13	2:aW:64:VAL:HG22	1.87	0.55
1:aU:99:LEU:HD21	1:iP:102:GLU:OE2	2.06	0.55
2:aW:221:PHE:HD1	2:aW:242:VAL:HG22	1.70	0.55
2:aX:163:ALA:HB3	2:aX:265:VAL:HG12	1.88	0.55
2:bb:224:TRP:CZ2	2:bb:242:VAL:HG11	2.41	0.55
2:bA:274:ALA:CB	2:bA:297:VAL:HG21	2.37	0.55
2:bB:100:GLY:N	2:bB:101:PRO:CD	2.70	0.55
1:bK:57:VAL:HG12	1:bK:59:VAL:HG13	1.88	0.55
2:bL:43:ALA:O	2:bL:44:SER:OG	2.20	0.55
1:bX:57:VAL:HG12	1:bX:59:VAL:HG13	1.88	0.55
2:cb:274:ALA:CB	2:cb:297:VAL:HG21	2.37	0.55
2:cc:100:GLY:N	2:cc:101:PRO:CD	2.70	0.55
2:cd:243:TYR:O	2:cd:247:ARG:HG2	2.06	0.55
1:cf:83:GLY:HA3	2:dr:8:LEU:CD1	2.37	0.55
1:cf:102:GLU:OE2	1:iH:99:LEU:HD21	2.06	0.55
1:ch:99:LEU:CD2	1:jf:102:GLU:HB2	2.33	0.55
2:cn:221:PHE:HD1	2:cn:242:VAL:HG22	1.70	0.55
2:cr:243:TYR:O	2:cr:247:ARG:HG2	2.06	0.55
1:cu:99:LEU:CD1	1:nL:102:GLU:CG	2.84	0.55
2:cA:117:LEU:HD21	2:cA:211:TYR:HA	1.88	0.55
2:cB:12:LEU:HD21	2:cU:14:THR:HG23	1.89	0.55
1:cM:82:ASP:OD1	1:cM:83:GLY:N	2.39	0.55
2:cR:274:ALA:CB	2:cR:297:VAL:HG21	2.37	0.55
1:cW:99:LEU:CD1	1:fi:102:GLU:CG	2.84	0.55
1:cW:102:GLU:OE1	2:de:197:LYS:NZ	2.30	0.55
1:db:99:LEU:HD21	1:eP:102:GLU:OE2	2.06	0.55
2:dd:132:ASP:OD2	2:dd:143:VAL:HG22	2.07	0.55
2:de:15:SER:OG	2:de:17:GLN:NE2	2.39	0.55
1:dk:99:LEU:CD1	1:km:102:GLU:CG	2.84	0.55
2:dr:132:ASP:OD2	2:dr:143:VAL:HG22	2.07	0.55
2:ds:15:SER:OG	2:ds:17:GLN:NE2	2.39	0.55
2:dw:88:ARG:NH2	2:dw:200:ASP:OD1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dw:224:TRP:CZ2	2:dw:242:VAL:HG11	2.41	0.55
2:dF:136:PHE:HZ	2:dF:173:LEU:HD22	1.72	0.55
2:dI:100:GLY:N	2:dI:101:PRO:CD	2.70	0.55
1:dR:57:VAL:HG12	1:dR:59:VAL:HG13	1.89	0.55
2:dV:274:ALA:CB	2:dV:297:VAL:HG21	2.37	0.55
1:ea:104:CYS:HA	2:fe:62:GLN:OE1	2.06	0.55
2:ej:274:ALA:CB	2:ej:297:VAL:HG21	2.37	0.55
1:ep:99:LEU:CD2	1:nI:102:GLU:HB2	2.33	0.55
2:eu:117:LEU:HD21	2:eu:211:TYR:HA	1.88	0.55
2:eu:189:LYS:HB2	2:eu:190:PRO:HD2	1.89	0.55
2:eK:240:GLU:OE2	2:eK:291:ASN:ND2	2.40	0.55
1:eU:82:ASP:OD1	1:eU:83:GLY:N	2.39	0.55
2:eY:15:SER:OG	2:eY:17:GLN:NE2	2.39	0.55
2:fo:197:LYS:O	2:ij:63:ARG:HG2	2.07	0.55
2:fy:298:LEU:HD12	2:fy:298:LEU:O	2.06	0.55
2:fA:12:LEU:HD21	2:of:96:LEU:HD12	1.88	0.55
2:fA:163:ALA:HB3	2:fA:265:VAL:HG12	1.88	0.55
1:fG:104:CYS:HA	2:hk:62:GLN:OE1	2.06	0.55
2:fM:117:LEU:HD21	2:fM:211:TYR:HA	1.88	0.55
2:fP:274:ALA:CB	2:fP:297:VAL:HG21	2.37	0.55
2:fQ:96:LEU:HD12	2:mx:12:LEU:HD21	1.88	0.55
2:fR:243:TYR:O	2:fR:247:ARG:HG2	2.06	0.55
2:gb:132:ASP:OD2	2:gb:143:VAL:HG22	2.07	0.55
2:gc:240:GLU:OE2	2:gc:291:ASN:ND2	2.39	0.55
2:gs:100:GLY:N	2:gs:101:PRO:CD	2.69	0.55
2:gV:12:LEU:HD12	2:gV:12:LEU:O	2.06	0.55
1:hd:57:VAL:HG12	1:hd:59:VAL:HG13	1.88	0.55
2:hf:221:PHE:HD1	2:hf:242:VAL:HG22	1.70	0.55
2:hs:169:ALA:C	5:qz:178:PRO:HG2	2.31	0.55
2:hX:189:LYS:CE	5:qx:51:GLU:CD	2.59	0.55
2:im:86:VAL:O	2:im:202:GLN:N	2.37	0.55
2:iv:136:PHE:HZ	2:iv:173:LEU:HD22	1.72	0.55
1:iD:102:GLU:HB2	1:po:99:LEU:CD2	2.33	0.55
2:iN:243:TYR:O	2:iN:247:ARG:HG2	2.06	0.55
2:iZ:144:TYR:HB3	2:iZ:145:PRO:HD2	1.87	0.55
1:ji:82:ASP:OD1	1:ji:83:GLY:N	2.39	0.55
2:jk:298:LEU:O	2:jk:298:LEU:HD12	2.06	0.55
2:jn:160:PHE:N	2:jn:304:ASN:OD1	2.39	0.55
2:jz:12:LEU:HD21	2:qb:14:THR:HG23	1.89	0.55
2:jA:12:LEU:HD21	2:nb:96:LEU:HD12	1.88	0.55
2:jC:96:LEU:HD12	2:kc:12:LEU:HD21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jF:86:SER:O	1:jF:90:LEU:N	2.38	0.55
2:jR:12:LEU:O	2:jR:12:LEU:HD12	2.06	0.55
2:ks:228:ALA:HB1	2:ks:283:LEU:HD11	1.89	0.55
1:kO:98:LEU:HD13	2:kQ:64:VAL:HG22	1.87	0.55
2:kP:298:LEU:HD12	2:kP:298:LEU:O	2.06	0.55
2:kQ:12:LEU:HD21	2:nd:14:THR:HG23	1.89	0.55
2:kS:144:TYR:HB3	2:kS:145:PRO:HD2	1.86	0.55
2:kT:100:GLY:N	2:kT:101:PRO:CD	2.69	0.55
2:kV:117:LEU:HD21	2:kV:211:TYR:CA	2.36	0.55
1:kY:87:ASP:HB3	2:lH:5:THR:HG22	1.87	0.55
1:lc:57:VAL:HG12	1:lc:59:VAL:HG13	1.88	0.55
1:lk:83:GLY:HA3	2:mK:8:LEU:CD1	2.37	0.55
2:lt:163:ALA:HB3	2:lt:265:VAL:HG12	1.88	0.55
2:lv:100:GLY:N	2:lv:101:PRO:CD	2.69	0.55
1:lE:102:GLU:HA	2:mY:198:GLU:CG	2.35	0.55
2:lT:117:LEU:HD21	2:lT:211:TYR:HA	1.88	0.55
2:lV:163:ALA:HB3	2:lV:265:VAL:HG12	1.88	0.55
2:lY:12:LEU:HD12	2:lY:12:LEU:O	2.05	0.55
2:lY:243:TYR:O	2:lY:247:ARG:HG2	2.06	0.55
1:mg:57:VAL:HG12	1:mg:59:VAL:HG13	1.88	0.55
2:mi:136:PHE:HZ	2:mi:173:LEU:HD22	1.72	0.55
2:mn:36:THR:O	2:mn:175:THR:OG1	2.18	0.55
2:mn:224:TRP:CZ2	2:mn:242:VAL:HG11	2.41	0.55
2:mv:117:LEU:HD21	2:mv:211:TYR:HA	1.88	0.55
2:mO:12:LEU:HD12	2:mO:12:LEU:O	2.05	0.55
2:mY:136:PHE:HZ	2:mY:173:LEU:HD22	1.72	0.55
2:mZ:240:GLU:OE2	2:mZ:291:ASN:ND2	2.40	0.55
2:nB:15:SER:OG	2:nB:17:GLN:NE2	2.40	0.55
2:nC:274:ALA:CB	2:nC:297:VAL:HG21	2.37	0.55
2:nF:88:ARG:NH2	2:nF:200:ASP:OD1	2.40	0.55
2:nN:189:LYS:HB2	2:nN:190:PRO:HD2	1.89	0.55
2:nN:298:LEU:HD12	2:nN:298:LEU:O	2.06	0.55
2:nO:134:GLN:OE1	2:nO:134:GLN:N	2.30	0.55
2:nO:136:PHE:HZ	2:nO:173:LEU:HD22	1.72	0.55
2:nT:88:ARG:NH2	2:nT:200:ASP:OD1	2.40	0.55
2:oc:132:ASP:OD2	2:oc:143:VAL:HG22	2.07	0.55
2:od:240:GLU:OE2	2:od:291:ASN:ND2	2.40	0.55
2:oD:188:MET:HA	2:oD:188:MET:HE3	1.87	0.55
2:oF:15:SER:OG	2:oF:17:GLN:NE2	2.40	0.55
2:pI:136:PHE:HZ	2:pI:173:LEU:HD22	1.72	0.55
2:pV:189:LYS:HB2	2:pV:190:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pY:274:ALA:CB	2:pY:297:VAL:HG21	2.37	0.55
3:qe:14:LEU:HD23	3:qe:114:PRO:HB3	1.87	0.55
3:qe:63:GLN:OE1	3:qe:64:GLY:N	2.37	0.55
3:qf:64:GLY:O	4:qk:220:SER:N	2.40	0.55
6:qu:17:LYS:HE3	6:qw:81:ILE:HG21	1.89	0.55
6:qw:112:LEU:HD22	6:qy:58:LEU:CD1	1.04	0.55
5:qx:235:ARG:NH2	5:qx:256:THR:O	2.39	0.55
5:qF:53:GLU:CD	5:qH:35:HIS:CE1	2.80	0.55
5:qF:392:LEU:HD12	5:qH:400:TYR:HE1	1.58	0.55
2:ak:96:LEU:HD12	2:mL:12:LEU:HD21	1.88	0.55
1:ao:104:CYS:HA	2:hY:62:GLN:OE1	2.06	0.55
1:at:57:VAL:HG12	1:at:59:VAL:HG13	1.88	0.55
2:aH:187:ARG:HD2	2:aH:203:VAL:HG22	1.86	0.55
2:aJ:15:SER:OG	2:aJ:17:GLN:NE2	2.40	0.55
2:aN:88:ARG:NH2	2:aN:200:ASP:OD1	2.40	0.55
1:aO:102:GLU:OE2	1:iV:99:LEU:HG	1.74	0.55
2:aW:8:LEU:CD1	1:bq:83:GLY:HA3	2.37	0.55
2:aW:63:ARG:HE	2:iJ:205:MET:HE2	1.72	0.55
2:aW:132:ASP:OD2	2:aW:143:VAL:HG22	2.07	0.55
2:aZ:100:GLY:N	2:aZ:101:PRO:CD	2.70	0.55
2:bl:238:ASN:O	2:bl:242:VAL:HG23	2.06	0.55
2:bm:274:ALA:CB	2:bm:297:VAL:HG21	2.37	0.55
2:bn:197:LYS:O	2:kq:63:ARG:HG2	2.06	0.55
2:bp:224:TRP:CZ2	2:bp:242:VAL:HG11	2.41	0.55
2:by:187:ARG:NH2	2:bD:192:PHE:O	2.40	0.55
2:bD:117:LEU:HD21	2:bD:211:TYR:CA	2.36	0.55
2:bD:224:TRP:CZ2	2:bD:242:VAL:HG11	2.41	0.55
2:bM:15:SER:OG	2:bM:17:GLN:NE2	2.40	0.55
2:bO:197:LYS:O	2:gr:63:ARG:HG2	2.06	0.55
2:bQ:224:TRP:CZ2	2:bQ:242:VAL:HG11	2.41	0.55
2:bY:298:LEU:HD12	2:bY:298:LEU:O	2.06	0.55
2:cr:228:ALA:HB1	2:cr:283:LEU:HD11	1.88	0.55
1:cv:99:LEU:CD2	1:dN:102:GLU:HB2	2.33	0.55
2:cC:240:GLU:OE2	2:cC:291:ASN:ND2	2.40	0.55
2:cD:274:ALA:CB	2:cD:297:VAL:HG21	2.37	0.55
1:cM:102:GLU:CG	1:pB:99:LEU:CD1	2.84	0.55
2:cU:224:TRP:CZ2	2:cU:242:VAL:HG11	2.41	0.55
2:dc:298:LEU:HD12	2:dc:298:LEU:O	2.06	0.55
2:df:274:ALA:CB	2:df:297:VAL:HG21	2.37	0.55
2:dE:189:LYS:HB2	2:dE:190:PRO:HD2	1.89	0.55
2:dF:132:ASP:OD2	2:dF:143:VAL:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dG:240:GLU:OE2	2:dG:291:ASN:ND2	2.40	0.55
1:dR:100:LYS:N	2:oX:197:LYS:CE	2.60	0.55
2:dV:63:ARG:HG2	2:pL:197:LYS:O	2.06	0.55
1:ee:105:THR:CG2	2:ml:60:ILE:HG23	2.35	0.55
1:ef:57:VAL:HG12	1:ef:59:VAL:HG13	1.88	0.55
1:en:86:SER:O	1:en:90:LEU:N	2.38	0.55
2:ez:228:ALA:HB1	2:ez:283:LEU:HD11	1.88	0.55
2:eM:100:GLY:N	2:eM:101:PRO:CD	2.70	0.55
2:eO:88:ARG:NH2	2:eO:200:ASP:OD1	2.40	0.55
2:fo:107:GLY:HA2	2:fo:184:TYR:HE1	1.66	0.55
2:fz:12:LEU:HD21	2:mn:14:THR:HG23	1.89	0.55
2:fC:100:GLY:N	2:fC:101:PRO:CD	2.69	0.55
2:gg:62:GLN:OE1	1:nt:104:CYS:HA	2.07	0.55
2:gg:88:ARG:NH2	2:gg:200:ASP:OD1	2.40	0.55
2:go:215:SER:O	2:go:216:ARG:NE	2.38	0.55
2:gq:15:SER:OG	2:gq:17:GLN:NE2	2.40	0.55
2:gD:136:PHE:HZ	2:gD:173:LEU:HD22	1.72	0.55
2:gE:240:GLU:OE2	2:gE:291:ASN:ND2	2.39	0.55
2:hh:274:ALA:CB	2:hh:297:VAL:HG21	2.37	0.55
2:hs:215:SER:O	2:hs:216:ARG:NE	2.38	0.55
2:hv:96:LEU:HD12	2:kR:12:LEU:HD21	1.88	0.55
2:hx:190:PRO:CD	5:qx:47:ARG:CD	2.44	0.55
2:hF:117:LEU:HD21	2:hF:211:TYR:HA	1.88	0.55
2:hF:298:LEU:HD12	2:hF:298:LEU:O	2.06	0.55
2:hG:240:GLU:OE2	2:hG:291:ASN:ND2	2.40	0.55
2:hI:100:GLY:N	2:hI:101:PRO:CD	2.70	0.55
2:hJ:188:MET:O	2:hJ:188:MET:SD	2.65	0.55
2:hK:182:LEU:N	5:qt:177:SER:HB2	2.13	0.55
2:ih:132:ASP:OD2	2:ih:143:VAL:HG22	2.07	0.55
2:ii:15:SER:OG	2:ii:17:GLN:NE2	2.40	0.55
2:ii:240:GLU:OE2	2:ii:291:ASN:ND2	2.39	0.55
1:io:104:CYS:HA	2:qb:62:GLN:OE1	2.06	0.55
2:iu:150:THR:OG1	2:iu:220:GLY:O	2.18	0.55
2:iv:132:ASP:OD2	2:iv:143:VAL:HG22	2.07	0.55
1:iB:86:SER:O	1:iB:90:LEU:N	2.38	0.55
2:iM:96:LEU:HD12	2:pv:12:LEU:HD21	1.88	0.55
2:iZ:274:ALA:CB	2:iZ:297:VAL:HG21	2.37	0.55
1:js:99:LEU:CD1	1:ID:102:GLU:CG	2.84	0.55
2:jy:189:LYS:HB2	2:jy:190:PRO:HD2	1.89	0.55
2:jz:132:ASP:OD2	2:jz:143:VAL:HG22	2.07	0.55
2:jD:188:MET:SD	2:jD:188:MET:O	2.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jO:15:SER:OG	2:jO:17:GLN:NE2	2.40	0.55
2:jS:165:ASP:HB3	2:jS:173:LEU:HD13	1.88	0.55
1:jZ:102:GLU:HA	2:ls:198:GLU:CG	2.35	0.55
2:kc:15:SER:OG	2:kc:17:GLN:NE2	2.39	0.55
2:kd:274:ALA:CB	2:kd:297:VAL:HG21	2.37	0.55
2:ke:100:GLY:N	2:ke:101:PRO:CD	2.70	0.55
2:ke:197:LYS:O	2:na:63:ARG:HG2	2.07	0.55
2:kg:165:ASP:HB3	2:kg:173:LEU:HD13	1.88	0.55
2:ko:189:LYS:HB2	2:ko:190:PRO:HD2	1.89	0.55
2:kq:274:ALA:CB	2:kq:297:VAL:HG21	2.37	0.55
2:kt:91:ILE:HG13	5:qD:47:ARG:HE	1.71	0.55
2:lh:100:GLY:N	2:lh:101:PRO:CD	2.69	0.55
2:li:243:TYR:O	2:li:247:ARG:HG2	2.06	0.55
2:lx:165:ASP:HB3	2:lx:173:LEU:HD13	1.88	0.55
2:lF:117:LEU:HD21	2:lF:211:TYR:HA	1.88	0.55
2:lK:188:MET:O	2:lK:188:MET:SD	2.65	0.55
2:IT:298:LEU:HD12	2:IT:298:LEU:O	2.06	0.55
2:IX:100:GLY:N	2:IX:101:PRO:CD	2.69	0.55
2:lZ:117:LEU:HD21	2:lZ:211:TYR:CA	2.36	0.55
1:mu:98:LEU:HD13	2:mw:64:VAL:HG22	1.87	0.55
2:mP:88:ARG:NH2	2:mP:200:ASP:OD1	2.40	0.55
1:mV:82:ASP:OD1	1:mV:83:GLY:N	2.39	0.55
2:nn:240:GLU:OE2	2:nn:291:ASN:ND2	2.40	0.55
2:nO:187:ARG:NH2	2:nT:192:PHE:O	2.40	0.55
2:oh:117:LEU:HD21	2:oh:211:TYR:CA	2.36	0.55
1:oo:99:LEU:HD21	1:qc:102:GLU:OE2	2.06	0.55
2:oq:136:PHE:HZ	2:oq:173:LEU:HD22	1.72	0.55
2:ou:228:ALA:HB1	2:ou:283:LEU:HD11	1.88	0.55
2:oJ:165:ASP:HB3	2:oJ:173:LEU:HD13	1.88	0.55
2:pf:117:LEU:HD21	2:pf:211:TYR:HA	1.88	0.55
2:pf:298:LEU:HD12	2:pf:298:LEU:O	2.06	0.55
2:pi:144:TYR:HB3	2:pi:145:PRO:HD2	1.86	0.55
2:pj:100:GLY:N	2:pj:101:PRO:CD	2.70	0.55
2:pl:239:PHE:HE1	2:pl:294:LEU:HD22	1.69	0.55
1:ps:98:LEU:HD13	2:pu:64:VAL:HG22	1.87	0.55
2:pt:189:LYS:HB2	2:pt:190:PRO:HD2	1.89	0.55
2:py:243:TYR:O	2:py:247:ARG:HG2	2.06	0.55
2:pz:86:VAL:O	2:pz:202:GLN:N	2.37	0.55
1:pF:82:ASP:OD1	1:pF:83:GLY:N	2.39	0.55
2:pM:12:LEU:HD12	2:pM:12:LEU:O	2.05	0.55
2:pW:187:ARG:NH2	2:qb:192:PHE:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qi:14:LEU:HD23	3:qi:114:PRO:HB3	1.87	0.55
4:qn:238:THR:HG22	4:qo:50:TYR:HH	1.70	0.55
5:qJ:317:PHE:HZ	5:qL:319:LEU:CD1	2.18	0.55
6:qK:112:LEU:HD21	6:qM:58:LEU:CD1	0.94	0.55
2:al:188:MET:O	2:al:188:MET:SD	2.65	0.55
2:ax:62:GLN:HE21	2:gt:197:LYS:HZ1	1.53	0.55
1:aF:105:THR:CG2	2:nb:60:ILE:HG23	2.35	0.55
2:aJ:12:LEU:HD21	2:kT:96:LEU:HD12	1.88	0.55
2:aM:188:MET:O	2:aM:188:MET:SD	2.65	0.55
2:aM:228:ALA:HB1	2:aM:283:LEU:HD11	1.88	0.55
1:aQ:99:LEU:CD2	1:ch:102:GLU:HB2	2.33	0.55
2:aV:298:LEU:HD12	2:aV:298:LEU:O	2.06	0.55
2:bb:14:THR:HG23	2:iJ:12:LEU:HD21	1.89	0.55
2:bl:240:GLU:OE2	2:bl:291:ASN:ND2	2.40	0.55
2:bp:88:ARG:NH2	2:bp:200:ASP:OD1	2.40	0.55
2:by:282:ARG:HH11	2:hT:282:ARG:NH2	1.93	0.55
2:bP:243:TYR:O	2:bP:247:ARG:HG2	2.06	0.55
2:ce:14:THR:HG23	2:dr:12:LEU:HD21	1.89	0.55
1:cl:99:LEU:HD21	1:iB:102:GLU:OE2	2.06	0.55
2:cm:298:LEU:HD12	2:cm:298:LEU:O	2.06	0.55
2:cn:187:ARG:NH2	2:cs:192:PHE:O	2.40	0.55
2:co:12:LEU:HD21	2:jo:96:LEU:HD12	1.88	0.55
2:cs:88:ARG:NH2	2:cs:200:ASP:OD1	2.40	0.55
1:cu:104:CYS:HA	2:dY:62:GLN:OE1	2.07	0.55
1:cy:82:ASP:OD1	1:cy:83:GLY:N	2.39	0.55
2:cR:160:PHE:N	2:cR:304:ASN:OD1	2.39	0.55
2:cT:188:MET:O	2:cT:188:MET:SD	2.65	0.55
2:dd:63:ARG:HE	2:eJ:205:MET:HE2	1.72	0.55
2:de:12:LEU:HD21	2:gG:96:LEU:HD12	1.88	0.55
2:dq:298:LEU:O	2:dq:298:LEU:HD12	2.06	0.55
2:dw:117:LEU:HD21	2:dw:211:TYR:CA	2.36	0.55
2:dw:165:ASP:HB3	2:dw:173:LEU:HD13	1.88	0.55
1:dD:98:LEU:HD13	2:dF:64:VAL:HG22	1.87	0.55
2:dE:117:LEU:HD21	2:dE:211:TYR:HA	1.88	0.55
2:dF:12:LEU:HD21	2:pl:14:THR:HG23	1.89	0.55
2:dF:205:MET:HE2	2:pg:63:ARG:HE	1.72	0.55
2:dH:274:ALA:CB	2:dH:297:VAL:HG21	2.37	0.55
2:dU:163:ALA:HB3	2:dU:265:VAL:HG12	1.88	0.55
2:dY:14:THR:HG23	2:oS:12:LEU:HD21	1.89	0.55
2:ew:12:LEU:HD21	2:nR:96:LEU:HD12	1.88	0.55
2:eI:117:LEU:HD21	2:eI:211:TYR:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eI:215:SER:O	2:eI:216:ARG:NE	2.38	0.55
2:eL:274:ALA:CB	2:eL:297:VAL:HG21	2.37	0.55
2:eN:171:TYR:OH	2:eN:175:THR:OG1	2.12	0.55
1:eV:57:VAL:HG12	1:eV:59:VAL:HG13	1.88	0.55
2:fc:165:ASP:HB3	2:fc:173:LEU:HD13	1.88	0.55
2:fq:224:TRP:CZ2	2:fq:242:VAL:HG11	2.41	0.55
2:fA:197:LYS:HZ2	1:nX:99:LEU:C	2.15	0.55
2:fN:187:ARG:NH2	2:fS:192:PHE:O	2.40	0.55
2:fQ:100:GLY:N	2:fQ:101:PRO:CD	2.70	0.55
2:fS:86:VAL:O	2:fS:202:GLN:N	2.37	0.55
1:fU:99:LEU:CD1	1:mt:102:GLU:CG	2.84	0.55
2:gc:12:LEU:HD21	2:ml:96:LEU:HD12	1.88	0.55
2:gc:163:ALA:HB3	2:gc:265:VAL:HG12	1.88	0.55
2:gf:188:MET:O	2:gf:188:MET:SD	2.65	0.55
2:gH:243:TYR:O	2:gH:247:ARG:HG2	2.06	0.55
2:gS:81:GLU:O	2:gU:57:ARG:N	2.39	0.55
2:gS:238:ASN:O	2:gS:242:VAL:HG23	2.06	0.55
2:gV:188:MET:O	2:gV:188:MET:SD	2.65	0.55
2:hu:274:ALA:CB	2:hu:297:VAL:HG21	2.37	0.55
2:hx:117:LEU:HD21	2:hx:211:TYR:CA	2.36	0.55
2:hF:181:PRO:HD3	5:qv:54:GLN:CD	2.32	0.55
2:hG:15:SER:OG	2:hG:17:GLN:NE2	2.39	0.55
2:hH:274:ALA:CB	2:hH:297:VAL:HG21	2.37	0.55
2:hK:88:ARG:NH2	2:hK:200:ASP:OD1	2.40	0.55
2:hS:298:LEU:O	2:hS:298:LEU:HD12	2.06	0.55
2:hU:163:ALA:HB3	2:hU:265:VAL:HG12	1.88	0.55
2:hX:228:ALA:HB1	2:hX:283:LEU:HD11	1.88	0.55
2:hY:88:ARG:NH2	2:hY:200:ASP:OD1	2.40	0.55
2:hY:224:TRP:CZ2	2:hY:242:VAL:HG11	2.41	0.55
2:iz:188:MET:SD	2:iz:188:MET:O	2.65	0.55
1:iB:83:GLY:HA3	2:jN:8:LEU:CD1	2.37	0.55
2:iJ:221:PHE:HD1	2:iJ:242:VAL:HG22	1.70	0.55
2:iL:274:ALA:CB	2:iL:297:VAL:HG21	2.37	0.55
2:iO:88:ARG:NH2	2:iO:200:ASP:OD1	2.40	0.55
2:iX:12:LEU:HD21	2:jQ:14:THR:HG23	1.89	0.55
2:jQ:117:LEU:HD21	2:jQ:211:TYR:CA	2.36	0.55
2:jQ:224:TRP:CZ2	2:jQ:242:VAL:HG11	2.41	0.55
2:jD:228:ALA:HB1	2:jD:283:LEU:HD11	1.89	0.55
2:jE:14:THR:HG23	2:le:12:LEU:HD21	1.89	0.55
1:jF:102:GLU:OE2	1:pU:99:LEU:HD21	2.06	0.55
1:jL:100:LYS:HZ3	1:pO:100:LYS:CG	2.00	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jQ:96:LEU:HD12	2:or:12:LEU:HD21	1.88	0.55
2:jS:117:LEU:HD21	2:jS:211:TYR:CA	2.37	0.55
2:kc:240:GLU:OE2	2:kc:291:ASN:ND2	2.40	0.55
2:kP:117:LEU:HD21	2:kP:211:TYR:HA	1.88	0.55
1:kX:99:LEU:CD1	1:nj:102:GLU:CG	2.84	0.55
2:lg:274:ALA:CB	2:lg:297:VAL:HG21	2.37	0.55
2:li:188:MET:O	2:li:188:MET:SD	2.65	0.55
2:ls:132:ASP:OD2	2:ls:143:VAL:HG22	2.07	0.55
2:lt:15:SER:OG	2:lt:17:GLN:NE2	2.40	0.55
1:lB:99:LEU:CD2	1:ox:60:ARG:HG2	2.37	0.55
1:lE:98:LEU:HD13	2:lG:64:VAL:HG22	1.88	0.55
2:mh:117:LEU:HD21	2:mh:211:TYR:HA	1.88	0.55
2:mi:12:LEU:HD21	2:mB:14:THR:HG23	1.89	0.55
2:my:160:PHE:N	2:my:304:ASN:OD1	2.39	0.55
2:mA:188:MET:O	2:mA:188:MET:SD	2.65	0.55
2:mP:62:GLN:OE1	1:nf:104:CYS:HA	2.07	0.55
2:nO:132:ASP:OD2	2:nO:143:VAL:HG22	2.07	0.55
2:od:81:GLU:O	2:of:57:ARG:N	2.39	0.55
2:oe:160:PHE:N	2:oe:304:ASN:OD1	2.39	0.55
2:ov:62:GLN:OE1	1:oL:104:CYS:HA	2.07	0.55
2:ov:165:ASP:HB3	2:ov:173:LEU:HD13	1.88	0.55
2:oR:215:SER:O	2:oR:216:ARG:NE	2.38	0.55
2:oX:117:LEU:HD21	2:oX:211:TYR:CA	2.37	0.55
2:py:12:LEU:HD12	2:py:12:LEU:O	2.05	0.55
2:pz:165:ASP:HB3	2:pz:173:LEU:HD13	1.88	0.55
2:pI:132:ASP:OD2	2:pI:143:VAL:HG22	2.07	0.55
2:pN:224:TRP:CZ2	2:pN:242:VAL:HG11	2.41	0.55
2:pW:132:ASP:OD2	2:pW:143:VAL:HG22	2.07	0.55
2:pX:163:ALA:HB3	2:pX:265:VAL:HG12	1.88	0.55
2:pZ:100:GLY:N	2:pZ:101:PRO:CD	2.69	0.55
5:qp:235:ARG:NH2	5:qp:256:THR:O	2.39	0.55
6:qy:112:LEU:CB	6:qA:58:LEU:HD13	2.34	0.55
5:qB:245:ASP:CG	6:qE:121:VAL:HG21	2.30	0.55
5:qF:251:LEU:O	5:qF:255:VAL:HG23	2.06	0.55
5:qJ:245:ASP:CG	6:qM:121:VAL:HG21	2.30	0.55
6:qK:17:LYS:HE3	6:qM:81:ILE:HG21	1.89	0.55
1:aa:60:ARG:HG2	1:nh:99:LEU:CD2	2.37	0.55
2:ag:117:LEU:HD21	2:ag:211:TYR:HA	1.88	0.55
2:ai:238:ASN:O	2:ai:242:VAL:HG23	2.06	0.55
2:ak:100:GLY:N	2:ak:101:PRO:CD	2.70	0.55
1:ao:60:ARG:HG2	1:hO:99:LEU:CD2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:au:117:LEU:HD21	2:au:211:TYR:HA	1.88	0.55
2:av:15:SER:OG	2:av:17:GLN:NE2	2.40	0.55
2:aw:274:ALA:CB	2:aw:297:VAL:HG21	2.37	0.55
1:aQ:102:GLU:OE1	1:jf:99:LEU:CA	2.29	0.55
1:bq:100:LYS:CD	1:dp:100:LYS:HZ1	2.20	0.55
2:bz:15:SER:OG	2:bz:17:GLN:NE2	2.40	0.55
2:bz:240:GLU:OE2	2:bz:291:ASN:ND2	2.40	0.55
2:bD:14:THR:HG23	2:dd:12:LEU:HD21	1.89	0.55
2:bM:238:ASN:O	2:bM:242:VAL:HG23	2.06	0.55
1:bU:99:LEU:CD2	1:eQ:60:ARG:HG2	2.37	0.55
1:bW:102:GLU:CG	1:hM:99:LEU:CD1	2.84	0.55
2:cd:188:MET:O	2:cd:188:MET:SD	2.65	0.55
2:cn:205:MET:HE2	2:pu:63:ARG:HE	1.72	0.55
2:cs:165:ASP:HB3	2:cs:173:LEU:HD13	1.88	0.55
1:cz:99:LEU:HD21	1:pm:102:GLU:OE2	2.06	0.55
2:cB:136:PHE:HZ	2:cB:173:LEU:HD22	1.72	0.55
2:cF:243:TYR:O	2:cF:247:ARG:HG2	2.06	0.55
1:cH:102:GLU:OE2	1:cN:99:LEU:HD21	2.06	0.55
2:cO:117:LEU:HD21	2:cO:211:TYR:HA	1.88	0.55
2:dg:197:LYS:O	2:dH:63:ARG:HG2	2.06	0.55
2:dt:274:ALA:CB	2:dt:297:VAL:HG21	2.37	0.55
2:dK:88:ARG:NH2	2:dK:200:ASP:OD1	2.40	0.55
1:dM:60:ARG:HG2	1:pD:99:LEU:CD2	2.37	0.55
1:ef:98:LEU:HD13	2:eh:64:VAL:HG22	1.87	0.55
2:eh:8:LEU:CD1	1:eB:83:GLY:HA3	2.37	0.55
2:ei:15:SER:OG	2:ei:17:GLN:NE2	2.40	0.55
2:ei:163:ALA:HB3	2:ei:265:VAL:HG12	1.88	0.55
2:eu:215:SER:O	2:eu:216:ARG:NE	2.38	0.55
2:ev:12:LEU:HD21	2:gI:14:THR:HG23	1.89	0.55
2:ev:136:PHE:HZ	2:ev:173:LEU:HD22	1.72	0.55
2:ew:240:GLU:OE2	2:ew:291:ASN:ND2	2.40	0.55
2:eA:62:GLN:OE1	1:oZ:104:CYS:HA	2.06	0.55
2:eN:228:ALA:HB1	2:eN:283:LEU:HD11	1.89	0.55
1:eP:83:GLY:HA3	2:gp:8:LEU:CD1	2.37	0.55
2:fl:12:LEU:HD21	2:nF:14:THR:HG23	1.89	0.55
2:fp:188:MET:O	2:fp:188:MET:SD	2.65	0.55
2:fq:14:THR:HG23	2:gD:12:LEU:HD21	1.89	0.55
1:fs:104:CYS:HA	2:oh:62:GLN:OE1	2.07	0.55
2:fA:5:THR:HG22	1:nW:87:ASP:HB3	1.87	0.55
2:fE:14:THR:HG23	2:nM:12:LEU:HD21	1.89	0.55
2:gb:12:LEU:HD21	2:im:14:THR:HG23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gn:57:VAL:HG12	1:gn:59:VAL:HG13	1.88	0.55
2:gu:88:ARG:NH2	2:gu:200:ASP:OD1	2.40	0.55
2:gu:165:ASP:HB3	2:gu:173:LEU:HD13	1.88	0.55
2:gR:198:GLU:CG	1:lS:102:GLU:HA	2.35	0.55
2:gW:165:ASP:HB3	2:gW:173:LEU:HD13	1.88	0.55
1:hd:99:LEU:HG	1:lM:102:GLU:OE2	1.74	0.55
2:hs:298:LEU:HD12	2:hs:298:LEU:O	2.06	0.55
2:hv:197:LYS:O	2:kS:63:ARG:HG2	2.07	0.55
2:hI:96:LEU:HD12	2:lV:12:LEU:HD21	1.88	0.55
1:hQ:82:ASP:OD1	1:hQ:83:GLY:N	2.39	0.55
2:im:165:ASP:HB3	2:im:173:LEU:HD13	1.88	0.55
1:iq:99:LEU:CD2	1:ll:60:ARG:HG2	2.37	0.55
1:is:102:GLU:CG	1:oj:99:LEU:CD1	2.84	0.55
2:ix:63:ARG:HG2	2:pZ:197:LYS:O	2.06	0.55
2:ix:274:ALA:CB	2:ix:297:VAL:HG21	2.37	0.55
2:iy:60:ILE:HG23	1:on:105:THR:CG2	2.35	0.55
2:iA:14:THR:HG23	2:jN:12:LEU:HD21	1.89	0.55
2:iJ:187:ARG:NH2	2:iO:192:PHE:O	2.40	0.55
2:iO:224:TRP:CZ2	2:iO:242:VAL:HG11	2.41	0.55
2:jm:163:ALA:HB3	2:jm:265:VAL:HG12	1.88	0.55
1:jx:57:VAL:HG12	1:jx:59:VAL:HG13	1.88	0.55
2:jA:15:SER:OG	2:jA:17:GLN:NE2	2.39	0.55
2:jE:62:GLN:OE1	1:jU:104:CYS:HA	2.06	0.55
1:jG:60:ARG:HG2	1:oN:99:LEU:CD2	2.37	0.55
2:jN:132:ASP:OD2	2:jN:143:VAL:HG22	2.07	0.55
2:jO:240:GLU:OE2	2:jO:291:ASN:ND2	2.40	0.55
2:jR:228:ALA:HB1	2:jR:283:LEU:HD11	1.88	0.55
2:jS:88:ARG:NH2	2:jS:200:ASP:OD1	2.40	0.55
2:kb:63:ARG:HE	2:ls:205:MET:HE2	1.72	0.55
2:kf:228:ALA:HB1	2:kf:283:LEU:HD11	1.89	0.55
2:kg:224:TRP:CZ2	2:kg:242:VAL:HG11	2.41	0.55
2:kB:298:LEU:HD12	2:kB:298:LEU:O	2.06	0.55
2:kD:240:GLU:OE2	2:kD:291:ASN:ND2	2.40	0.55
2:kE:160:PHE:N	2:kE:304:ASN:OD1	2.39	0.55
2:kF:100:GLY:N	2:kF:101:PRO:CD	2.70	0.55
1:kX:104:CYS:HA	2:oJ:62:GLN:OE1	2.06	0.55
2:ld:189:LYS:HB2	2:ld:190:PRO:HD2	1.89	0.55
2:ld:298:LEU:HD12	2:ld:298:LEU:O	2.06	0.55
2:lf:240:GLU:OE2	2:lf:291:ASN:ND2	2.39	0.55
2:lj:62:GLN:OE1	1:lz:104:CYS:HA	2.07	0.55
2:lj:117:LEU:HD21	2:lj:211:TYR:CA	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ln:99:LEU:CD2	1:pP:60:ARG:HG2	2.37	0.55
2:lw:188:MET:O	2:lw:188:MET:SD	2.65	0.55
2:lG:141:HIS:HE2	2:lG:150:THR:HG1	1.49	0.55
2:IU:136:PHE:HZ	2:IU:173:LEU:HD22	1.72	0.55
2:IW:144:TYR:HB3	2:IW:145:PRO:HD2	1.87	0.55
2:mm:188:MET:O	2:mm:188:MET:SD	2.65	0.55
2:mx:81:GLU:O	2:mz:57:ARG:N	2.39	0.55
2:mB:88:ARG:NH2	2:mB:200:ASP:OD1	2.40	0.55
2:mB:117:LEU:HD21	2:mB:211:TYR:CA	2.37	0.55
1:mI:102:GLU:HA	2:oq:198:GLU:CG	2.35	0.55
2:mX:189:LYS:HB2	2:mX:190:PRO:HD2	1.89	0.55
2:nl:189:LYS:HB2	2:nl:190:PRO:HD2	1.89	0.55
2:nr:88:ARG:NH2	2:nr:200:ASP:OD1	2.40	0.55
2:nr:224:TRP:CZ2	2:nr:242:VAL:HG11	2.41	0.55
2:nz:117:LEU:HD21	2:nz:211:TYR:HA	1.88	0.55
2:nO:221:PHE:HD1	2:nO:242:VAL:HG22	1.70	0.55
2:od:15:SER:OG	2:od:17:GLN:NE2	2.40	0.55
2:oG:274:ALA:CB	2:oG:297:VAL:HG21	2.37	0.55
2:oT:238:ASN:O	2:oT:242:VAL:HG23	2.06	0.55
2:ph:15:SER:OG	2:ph:17:GLN:NE2	2.39	0.55
2:ph:240:GLU:OE2	2:ph:291:ASN:ND2	2.40	0.55
2:pl:224:TRP:CZ2	2:pl:242:VAL:HG11	2.41	0.55
2:pu:8:LEU:CD1	1:pO:83:GLY:HA3	2.37	0.55
2:pJ:15:SER:OG	2:pJ:17:GLN:NE2	2.40	0.55
2:pM:243:TYR:O	2:pM:247:ARG:HG2	2.06	0.55
2:pX:15:SER:OG	2:pX:17:GLN:NE2	2.39	0.55
1:qc:86:SER:O	1:qc:90:LEU:N	2.38	0.55
3:qd:63:GLN:OE1	3:qd:64:GLY:N	2.37	0.55
3:qg:66:GLN:HA	4:qk:8:TYR:HD2	1.72	0.55
5:qp:251:LEU:O	5:qp:255:VAL:HG23	2.06	0.55
6:qu:112:LEU:HD23	6:qw:58:LEU:CD1	1.02	0.55
5:qv:235:ARG:NH2	5:qv:256:THR:O	2.39	0.55
6:qI:112:LEU:HD22	6:qK:58:LEU:CD1	1.03	0.55
1:aa:104:CYS:HA	2:nr:62:GLN:OE1	2.07	0.55
2:aW:12:LEU:HD21	2:bp:14:THR:HG23	1.89	0.55
2:bb:237:VAL:O	2:bb:241:LYS:HD3	2.07	0.55
1:bc:86:SER:O	1:bc:90:LEU:N	2.38	0.55
2:bk:187:ARG:NH2	2:bp:192:PHE:O	2.40	0.55
1:bt:99:LEU:CD2	1:bS:60:ARG:HG2	2.37	0.55
2:bN:274:ALA:CB	2:bN:297:VAL:HG21	2.37	0.55
2:bQ:117:LEU:HD21	2:bQ:211:TYR:CA	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bZ:63:ARG:HE	2:dr:205:MET:HE2	1.72	0.55
2:cc:197:LYS:O	2:eZ:63:ARG:HG2	2.06	0.55
2:ce:62:GLN:CD	1:eQ:104:CYS:HA	2.30	0.55
2:ce:117:LEU:HD21	2:ce:211:TYR:CA	2.36	0.55
2:cn:12:LEU:HD21	2:pz:14:THR:HG23	1.89	0.55
2:cp:63:ARG:HG2	2:jo:197:LYS:O	2.06	0.55
2:cp:274:ALA:CB	2:cp:297:VAL:HG21	2.37	0.55
2:cF:188:MET:O	2:cF:188:MET:SD	2.65	0.55
1:cI:60:ARG:HG2	1:pp:99:LEU:CD2	2.37	0.55
1:cN:57:VAL:HG12	1:cN:59:VAL:HG13	1.89	0.55
2:cP:132:ASP:OD2	2:cP:143:VAL:HG22	2.07	0.55
2:de:163:ALA:HB3	2:de:265:VAL:HG12	1.88	0.55
2:dJ:243:TYR:O	2:dJ:247:ARG:HG2	2.06	0.55
2:dK:62:GLN:OE1	1:gw:104:CYS:HA	2.07	0.55
1:dL:83:GLY:HA3	2:eX:8:LEU:CD1	2.37	0.55
1:ef:99:LEU:HD21	1:nG:102:GLU:OE2	2.06	0.55
1:et:57:VAL:HG12	1:et:59:VAL:HG13	1.88	0.55
2:eA:197:LYS:CE	1:gB:100:LYS:N	2.60	0.55
1:eH:100:LYS:HZ1	1:gv:100:LYS:CE	2.20	0.55
2:eO:117:LEU:HD21	2:eO:211:TYR:CA	2.36	0.55
1:eP:86:SER:O	1:eP:90:LEU:N	2.38	0.55
1:fj:98:LEU:HD13	2:fl:64:VAL:HG22	1.87	0.55
2:fp:228:ALA:HB1	2:fp:283:LEU:HD11	1.89	0.55
1:fr:83:GLY:HA3	2:gD:8:LEU:CD1	2.37	0.55
2:fz:136:PHE:HZ	2:fz:173:LEU:HD22	1.72	0.55
2:fD:188:MET:O	2:fD:188:MET:SD	2.65	0.55
2:fE:88:ARG:NH2	2:fE:200:ASP:OD1	2.40	0.55
1:fF:83:GLY:HA3	2:nm:8:LEU:CD1	2.37	0.55
2:fS:14:THR:HG23	2:lU:12:LEU:HD21	1.89	0.55
2:fS:224:TRP:CZ2	2:fS:242:VAL:HG11	2.41	0.55
2:gg:117:LEU:HD21	2:gg:211:TYR:CA	2.36	0.55
2:gp:132:ASP:OD2	2:gp:143:VAL:HG22	2.07	0.55
2:gD:132:ASP:OD2	2:gD:143:VAL:HG22	2.07	0.55
2:gD:187:ARG:NH2	2:gI:192:PHE:O	2.40	0.55
2:gE:163:ALA:HB3	2:gE:265:VAL:HG12	1.88	0.55
2:gG:107:GLY:HA2	2:gG:184:TYR:HE1	1.66	0.55
1:gP:99:LEU:HD21	1:in:102:GLU:OE2	2.06	0.55
2:hg:240:GLU:OE2	2:hg:291:ASN:ND2	2.40	0.55
2:ht:15:SER:OG	2:ht:17:GLN:NE2	2.39	0.55
2:hX:88:ARG:NH2	2:hX:200:ASP:OD1	2.40	0.55
2:hF:189:LYS:HB2	2:hF:190:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hG:81:GLU:O	2:hI:57:ARG:N	2.39	0.55
2:hG:238:ASN:O	2:hG:242:VAL:HG23	2.06	0.55
2:hT:136:PHE:HZ	2:hT:173:LEU:HD22	1.72	0.55
2:hV:274:ALA:CB	2:hV:297:VAL:HG21	2.37	0.55
2:im:117:LEU:HD21	2:im:211:TYR:CA	2.36	0.55
2:iz:228:ALA:HB1	2:iz:283:LEU:HD11	1.88	0.55
2:iM:197:LYS:O	2:pw:63:ARG:HG2	2.06	0.55
1:iQ:104:CYS:HA	2:kt:62:GLN:OE1	2.07	0.55
2:iX:132:ASP:OD2	2:iX:143:VAL:HG22	2.07	0.55
2:jb:228:ALA:HB1	2:jb:283:LEU:HD11	1.88	0.55
2:jQ:53:PHE:O	2:jQ:255:ARG:NH2	2.36	0.55
1:jR:86:SER:O	1:jR:90:LEU:N	2.38	0.55
2:jA:5:THR:HG22	1:mS:87:ASP:HB3	1.87	0.55
2:jC:197:LYS:O	2:kd:63:ARG:HG2	2.06	0.55
2:jN:187:ARG:NH2	2:jS:192:PHE:O	2.40	0.55
2:jR:188:MET:O	2:jR:188:MET:SD	2.65	0.55
2:jS:224:TRP:CZ2	2:jS:242:VAL:HG11	2.41	0.55
2:kg:14:THR:HG23	2:ls:12:LEU:HD21	1.89	0.55
2:kg:88:ARG:NH2	2:kg:200:ASP:OD1	2.40	0.55
2:kH:224:TRP:CZ2	2:kH:242:VAL:HG11	2.41	0.55
2:lf:163:ALA:HB3	2:lf:265:VAL:HG12	1.88	0.55
2:lL:14:THR:HG23	2:mY:12:LEU:HD21	1.89	0.55
2:lW:274:ALA:CB	2:lW:297:VAL:HG21	2.37	0.55
2:mi:187:ARG:NH2	2:mn:192:PHE:O	2.40	0.55
2:mv:189:LYS:HB2	2:mv:190:PRO:HD2	1.89	0.55
2:mw:282:ARG:HH11	2:oE:282:ARG:NH2	1.93	0.55
2:mx:240:GLU:OE2	2:mx:291:ASN:ND2	2.40	0.55
2:mK:132:ASP:OD2	2:mK:143:VAL:HG22	2.07	0.55
2:mP:239:PHE:HE1	2:mP:294:LEU:HD22	1.70	0.55
2:nn:238:ASN:O	2:nn:242:VAL:HG23	2.06	0.55
2:no:274:ALA:CB	2:no:297:VAL:HG21	2.37	0.55
2:nB:240:GLU:OE2	2:nB:291:ASN:ND2	2.39	0.55
2:nD:100:GLY:N	2:nD:101:PRO:CD	2.69	0.55
1:nH:60:ARG:HG2	1:pb:99:LEU:CD2	2.37	0.55
2:nQ:274:ALA:CB	2:nQ:297:VAL:HG21	2.37	0.55
2:ob:117:LEU:HD21	2:ob:211:TYR:HA	1.88	0.55
2:ob:298:LEU:O	2:ob:298:LEU:HD12	2.06	0.55
2:oe:274:ALA:CB	2:oe:297:VAL:HG21	2.37	0.55
2:oh:86:VAL:O	2:oh:202:GLN:N	2.37	0.55
1:oB:82:ASP:OD1	1:oB:83:GLY:N	2.39	0.55
2:oI:188:MET:O	2:oI:188:MET:SD	2.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pk:188:MET:O	2:pk:188:MET:SD	2.65	0.55
2:pk:228:ALA:HB1	2:pk:283:LEU:HD11	1.88	0.55
2:pt:117:LEU:HD21	2:pt:211:TYR:HA	1.88	0.55
2:pv:240:GLU:OE2	2:pv:291:ASN:ND2	2.40	0.55
2:pH:298:LEU:HD12	2:pH:298:LEU:O	2.06	0.55
2:qb:117:LEU:HD21	2:qb:211:TYR:CA	2.36	0.55
3:qf:25:LEU:HD21	6:qC:82:VAL:CG2	2.37	0.55
3:qf:67:ARG:CB	4:ql:194:LEU:HD11	2.36	0.55
3:qg:55:GLU:OE1	4:qk:223:ASN:CB	2.55	0.55
5:qr:235:ARG:NH2	5:qr:256:THR:O	2.39	0.55
5:qt:235:ARG:NH2	5:qt:256:THR:O	2.39	0.55
5:qv:317:PHE:HZ	5:qx:319:LEU:CD1	2.18	0.55
1:af:57:VAL:HG12	1:af:59:VAL:HG13	1.88	0.54
1:aq:99:LEU:CD2	1:dk:60:ARG:HG2	2.37	0.54
2:aM:243:TYR:O	2:aM:247:ARG:HG2	2.06	0.54
2:aV:43:ALA:O	2:aV:44:SER:OG	2.20	0.54
2:aV:93:ASP:OD2	2:iO:209:TYR:OH	2.22	0.54
2:aY:274:ALA:CB	2:aY:297:VAL:HG21	2.37	0.54
2:ba:188:MET:O	2:ba:188:MET:SD	2.65	0.54
1:bf:99:LEU:CD2	1:ki:60:ARG:HG2	2.37	0.54
2:bl:15:SER:OG	2:bl:17:GLN:NE2	2.39	0.54
1:br:60:ARG:HG2	1:eS:99:LEU:CD2	2.37	0.54
2:bD:53:PHE:O	2:bD:255:ARG:NH2	2.36	0.54
2:bL:111:GLY:HA2	5:qr:178:PRO:HD3	1.86	0.54
2:cG:88:ARG:NH2	2:cG:200:ASP:OD1	2.40	0.54
1:cI:102:GLU:CD	1:pp:98:LEU:O	2.51	0.54
2:cU:237:VAL:O	2:cU:241:LYS:HD3	2.08	0.54
1:cW:60:ARG:HG2	1:gy:99:LEU:CD2	2.37	0.54
1:cW:104:CYS:HA	2:gI:62:GLN:OE1	2.06	0.54
1:dp:103:ARG:HB3	2:dv:62:GLN:OE1	2.08	0.54
2:dv:243:TYR:O	2:dv:247:ARG:HG2	2.06	0.54
2:dJ:228:ALA:HB1	2:dJ:283:LEU:HD11	1.88	0.54
2:dK:117:LEU:HD21	2:dK:211:TYR:CA	2.36	0.54
1:dM:102:GLU:CD	1:pD:98:LEU:O	2.51	0.54
2:dX:171:TYR:OH	2:dX:175:THR:OG1	2.12	0.54
2:dX:243:TYR:O	2:dX:247:ARG:HG2	2.06	0.54
2:eg:298:LEU:O	2:eg:298:LEU:HD12	2.06	0.54
2:eh:12:LEU:HD21	2:eA:14:THR:HG23	1.89	0.54
2:eh:198:GLU:CG	1:et:102:GLU:HA	2.35	0.54
2:el:188:MET:O	2:el:188:MET:SD	2.65	0.54
2:em:117:LEU:HD21	2:em:211:TYR:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eo:102:GLU:CD	1:nJ:98:LEU:O	2.51	0.54
1:es:105:THR:CG2	2:of:60:ILE:HG23	2.35	0.54
2:eN:188:MET:O	2:eN:188:MET:SD	2.65	0.54
2:fk:117:LEU:HD21	2:fk:211:TYR:HA	1.88	0.54
2:fB:274:ALA:CB	2:fB:297:VAL:HG21	2.37	0.54
1:fY:105:THR:CG2	2:mz:60:ILE:HG23	2.35	0.54
2:gc:238:ASN:O	2:gc:242:VAL:HG23	2.06	0.54
2:gp:136:PHE:HZ	2:gp:173:LEU:HD22	1.72	0.54
2:gt:12:LEU:HD12	2:gt:12:LEU:O	2.05	0.54
2:gI:88:ARG:NH2	2:gI:200:ASP:OD1	2.40	0.54
2:gR:12:LEU:HD21	2:lZ:14:THR:HG23	1.89	0.54
1:hr:57:VAL:HG12	1:hr:59:VAL:HG13	1.88	0.54
1:hy:100:LYS:CG	1:hE:100:LYS:HZ1	2.14	0.54
1:hA:87:ASP:HB3	2:IV:5:THR:HG22	1.87	0.54
1:hA:99:LEU:CA	1:kw:102:GLU:OE1	2.28	0.54
2:hK:117:LEU:HD21	2:hK:211:TYR:CA	2.37	0.54
2:hS:117:LEU:HD21	2:hS:211:TYR:HA	1.88	0.54
2:ig:189:LYS:HB2	2:ig:190:PRO:HD2	1.89	0.54
2:ij:274:ALA:CB	2:ij:297:VAL:HG21	2.37	0.54
2:ik:100:GLY:N	2:ik:101:PRO:CD	2.69	0.54
1:is:82:ASP:OD1	1:is:83:GLY:N	2.39	0.54
2:iK:240:GLU:OE2	2:iK:291:ASN:ND2	2.39	0.54
2:iW:189:LYS:HB2	2:iW:190:PRO:HD2	1.89	0.54
2:iX:8:LEU:CD1	1:jr:83:GLY:HA3	2.37	0.54
2:iX:136:PHE:HZ	2:iX:173:LEU:HD22	1.72	0.54
1:jd:102:GLU:OE2	1:jj:99:LEU:HD21	2.06	0.54
2:jn:274:ALA:CB	2:jn:297:VAL:HG21	2.37	0.54
2:jq:88:ARG:NH2	2:jq:200:ASP:OD1	2.40	0.54
1:ju:99:LEU:CD2	1:jU:60:ARG:HG2	2.37	0.54
2:jz:63:ARG:HE	2:le:205:MET:HE2	1.72	0.54
2:jB:63:ARG:HG2	2:nb:197:LYS:O	2.07	0.54
2:jS:237:VAL:O	2:jS:241:LYS:HD3	2.08	0.54
2:ka:189:LYS:HB2	2:ka:190:PRO:HD2	1.89	0.54
2:kb:132:ASP:OD2	2:kb:143:VAL:HG22	2.07	0.54
2:kb:136:PHE:HZ	2:kb:173:LEU:HD22	1.72	0.54
1:kh:83:GLY:HA3	2:ls:8:LEU:CD1	2.37	0.54
2:kt:117:LEU:HD21	2:kt:211:TYR:CA	2.36	0.54
1:kv:104:CYS:HA	2:lZ:62:GLN:OE1	2.07	0.54
2:kB:189:LYS:HB2	2:kB:190:PRO:HD2	1.89	0.54
1:kI:102:GLU:OE2	1:kO:99:LEU:HD21	2.06	0.54
2:kP:189:LYS:HB2	2:kP:190:PRO:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kV:88:ARG:NH2	2:kV:200:ASP:OD1	2.40	0.54
1:kZ:98:LEU:O	1:lz:102:GLU:CD	2.51	0.54
2:lj:237:VAL:O	2:lj:241:LYS:HD3	2.08	0.54
2:lx:88:ARG:NH2	2:lx:200:ASP:OD1	2.40	0.54
1:lB:99:LEU:CA	2:oF:197:LYS:HZ2	2.20	0.54
2:mh:189:LYS:HB2	2:mh:190:PRO:HD2	1.89	0.54
2:mi:132:ASP:OD2	2:mi:143:VAL:HG22	2.07	0.54
2:mj:163:ALA:HB3	2:mj:265:VAL:HG12	1.88	0.54
2:mn:88:ARG:NH2	2:mn:200:ASP:OD1	2.40	0.54
1:mt:82:ASP:OD1	1:mt:83:GLY:N	2.39	0.54
2:mw:12:LEU:HD21	2:oJ:14:THR:HG23	1.89	0.54
2:mw:132:ASP:OD2	2:mw:143:VAL:HG22	2.07	0.54
2:mx:238:ASN:O	2:mx:242:VAL:HG23	2.06	0.54
2:mz:100:GLY:N	2:mz:101:PRO:CD	2.69	0.54
2:mB:224:TRP:CZ2	2:mB:242:VAL:HG11	2.41	0.54
2:mB:237:VAL:O	2:mB:241:LYS:HD3	2.08	0.54
2:mN:96:LEU:HD12	2:nn:12:LEU:HD21	1.88	0.54
2:mZ:163:ALA:HB3	2:mZ:265:VAL:HG12	1.88	0.54
2:nc:228:ALA:HB1	2:nc:283:LEU:HD11	1.89	0.54
1:ns:86:SER:O	1:ns:90:LEU:N	2.38	0.54
2:nQ:63:ARG:HG2	2:pj:197:LYS:O	2.07	0.54
2:og:188:MET:O	2:og:188:MET:SD	2.65	0.54
1:oo:98:LEU:HD13	2:oq:64:VAL:HG22	1.87	0.54
2:op:117:LEU:HD21	2:op:211:TYR:HA	1.88	0.54
2:ov:117:LEU:HD21	2:ov:211:TYR:CA	2.37	0.54
2:oI:243:TYR:O	2:oI:247:ARG:HG2	2.06	0.54
2:pg:187:ARG:NH2	2:pl:192:PHE:O	2.40	0.54
2:pu:12:LEU:HD21	2:pN:14:THR:HG23	1.89	0.54
2:pz:36:THR:O	2:pz:175:THR:OG1	2.18	0.54
2:pz:224:TRP:CZ2	2:pz:242:VAL:HG11	2.41	0.54
1:pG:57:VAL:HG12	1:pG:59:VAL:HG13	1.88	0.54
1:pU:57:VAL:HG12	1:pU:59:VAL:HG13	1.88	0.54
5:qp:400:TYR:HH	5:qL:392:LEU:HD13	1.72	0.54
6:qu:112:LEU:HD22	6:qw:58:LEU:CD1	1.03	0.54
6:qw:17:LYS:HE3	6:qy:81:ILE:HG21	1.89	0.54
6:qy:112:LEU:HD22	6:qA:58:LEU:CD1	1.04	0.54
5:qL:251:LEU:O	5:qL:255:VAL:HG23	2.06	0.54
1:aa:102:GLU:CD	1:nh:98:LEU:O	2.51	0.54
1:ac:99:LEU:CD2	1:mD:60:ARG:HG2	2.37	0.54
2:ah:136:PHE:HZ	2:ah:173:LEU:HD22	1.72	0.54
2:aj:63:ARG:HG2	2:np:197:LYS:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:az:88:ARG:NH2	2:az:200:ASP:OD1	2.40	0.54
2:az:95:ASN:OD1	5:qJ:44:LYS:CD	2.56	0.54
1:aB:60:ARG:HG2	1:kL:99:LEU:CD2	2.37	0.54
1:aD:99:LEU:CD2	1:hm:60:ARG:HG2	2.37	0.54
1:aP:102:GLU:CD	1:ci:98:LEU:O	2.51	0.54
2:aX:15:SER:OG	2:aX:17:GLN:NE2	2.39	0.54
1:bd:102:GLU:CD	1:iS:98:LEU:O	2.50	0.54
1:be:99:LEU:CA	1:iR:102:GLU:OE1	2.28	0.54
2:bk:136:PHE:HZ	2:bk:173:LEU:HD22	1.72	0.54
2:bk:221:PHE:HD1	2:bk:242:VAL:HG22	1.70	0.54
2:bo:188:MET:O	2:bo:188:MET:SD	2.65	0.54
2:bp:117:LEU:HD21	2:bp:211:TYR:CA	2.36	0.54
2:bp:239:PHE:HE1	2:bp:294:LEU:HD22	1.69	0.54
1:bq:102:GLU:OE2	1:dp:99:LEU:HD21	2.06	0.54
2:bz:163:ALA:HB3	2:bz:265:VAL:HG12	1.88	0.54
2:bD:62:GLN:OE1	1:bS:104:CYS:HA	2.06	0.54
1:bF:102:GLU:CD	1:gM:98:LEU:O	2.51	0.54
2:bN:60:ILE:O	1:gL:105:THR:HG23	2.08	0.54
1:cg:102:GLU:CD	1:jg:98:LEU:O	2.51	0.54
1:cl:57:VAL:HG12	1:cl:59:VAL:HG13	1.88	0.54
2:cE:197:LYS:O	2:pK:63:ARG:HG2	2.06	0.54
2:cG:117:LEU:HD21	2:cG:211:TYR:HA	1.90	0.54
2:cS:197:LYS:O	2:iL:63:ARG:HG2	2.06	0.54
2:cU:53:PHE:O	2:cU:255:ARG:NH2	2.36	0.54
2:de:240:GLU:OE2	2:de:291:ASN:ND2	2.40	0.54
1:dj:86:SER:O	1:dj:90:LEU:N	2.38	0.54
2:dr:136:PHE:HZ	2:dr:173:LEU:HD22	1.72	0.54
2:dv:188:MET:O	2:dv:188:MET:SD	2.65	0.54
2:dv:228:ALA:HB1	2:dv:283:LEU:HD11	1.89	0.54
2:dw:62:GLN:OE1	1:hM:104:CYS:HA	2.07	0.54
2:dF:8:LEU:CD1	1:pm:83:GLY:HA3	2.37	0.54
2:dK:165:ASP:HB3	2:dK:173:LEU:HD13	1.88	0.54
2:dX:188:MET:O	2:dX:188:MET:SD	2.65	0.54
2:dY:117:LEU:HD21	2:dY:211:TYR:CA	2.36	0.54
2:ei:192:PHE:CB	2:ei:195:MET:HE2	2.38	0.54
2:em:88:ARG:NH2	2:em:200:ASP:OD1	2.40	0.54
1:et:103:ARG:HB3	2:ez:62:GLN:OE1	2.08	0.54
2:ev:198:GLU:CG	1:gB:102:GLU:HA	2.35	0.54
2:ew:163:ALA:HB3	2:ew:265:VAL:HG12	1.88	0.54
2:ew:238:ASN:O	2:ew:242:VAL:HG23	2.06	0.54
2:ez:243:TYR:O	2:ez:247:ARG:HG2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eA:117:LEU:HD21	2:eA:211:TYR:CA	2.36	0.54
2:eO:14:THR:HG23	2:gp:12:LEU:HD21	1.89	0.54
2:eO:237:VAL:O	2:eO:241:LYS:HD3	2.08	0.54
2:eX:136:PHE:HZ	2:eX:173:LEU:HD22	1.72	0.54
1:fj:100:LYS:N	2:gI:197:LYS:CE	2.60	0.54
2:fm:240:GLU:OE2	2:fm:291:ASN:ND2	2.39	0.54
2:fo:96:LEU:HD12	2:ii:12:LEU:HD21	1.88	0.54
2:fq:117:LEU:HD21	2:fq:211:TYR:CA	2.37	0.54
2:fB:63:ARG:HG2	2:of:197:LYS:O	2.06	0.54
2:fE:36:THR:O	2:fE:175:THR:OG1	2.18	0.54
2:fM:186:GLU:N	2:fM:186:GLU:OE1	2.41	0.54
2:fN:205:MET:HE2	2:gb:63:ARG:HE	1.72	0.54
2:fR:188:MET:O	2:fR:188:MET:SD	2.65	0.54
2:fS:88:ARG:NH2	2:fS:200:ASP:OD1	2.40	0.54
2:fS:237:VAL:O	2:fS:241:LYS:HD3	2.08	0.54
2:gf:243:TYR:O	2:gf:247:ARG:HG2	2.06	0.54
2:gg:224:TRP:CZ2	2:gg:242:VAL:HG11	2.41	0.54
1:gA:82:ASP:OD1	1:gA:83:GLY:N	2.39	0.54
1:gP:103:ARG:HB3	2:gV:62:GLN:OE1	2.08	0.54
2:gQ:298:LEU:HD12	2:gQ:298:LEU:O	2.06	0.54
2:gT:274:ALA:CB	2:gT:297:VAL:HG21	2.37	0.54
1:gY:104:CYS:HA	2:mB:62:GLN:OE1	2.07	0.54
2:hi:100:GLY:N	2:hi:101:PRO:CD	2.69	0.54
2:hj:188:MET:O	2:hj:188:MET:SD	2.65	0.54
2:hs:181:PRO:HG3	5:qB:58:GLN:NE2	2.21	0.54
2:hG:232:GLU:O	2:hG:237:VAL:HG23	2.05	0.54
2:hT:132:ASP:OD2	2:hT:143:VAL:HG22	2.07	0.54
2:hX:188:MET:O	2:hX:188:MET:SD	2.65	0.54
2:ii:163:ALA:HB3	2:ii:265:VAL:HG12	1.88	0.54
2:im:88:ARG:NH2	2:im:200:ASP:OD1	2.40	0.54
2:iv:63:ARG:HE	2:jN:205:MET:HE2	1.72	0.54
2:iw:15:SER:OG	2:iw:17:GLN:NE2	2.40	0.54
2:iA:88:ARG:NH2	2:iA:200:ASP:OD1	2.40	0.54
1:iE:98:LEU:O	1:pn:102:GLU:CD	2.51	0.54
1:iE:99:LEU:CD2	1:pn:60:ARG:HG2	2.37	0.54
2:iJ:132:ASP:OD2	2:iJ:143:VAL:HG22	2.07	0.54
2:iJ:136:PHE:HZ	2:iJ:173:LEU:HD22	1.72	0.54
1:iQ:102:GLU:CD	1:kk:98:LEU:O	2.51	0.54
2:iW:186:GLU:OE1	2:iW:186:GLU:N	2.41	0.54
2:iY:240:GLU:OE2	2:iY:291:ASN:ND2	2.40	0.54
2:jQ:86:VAL:O	2:jQ:202:GLN:N	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jE:117:LEU:HD21	2:jE:211:TYR:CA	2.36	0.54
2:jP:60:ILE:O	1:oM:105:THR:HG23	2.08	0.54
2:jP:274:ALA:CB	2:jP:297:VAL:HG21	2.37	0.54
2:kg:117:LEU:HD21	2:kg:211:TYR:CA	2.36	0.54
2:kp:15:SER:OG	2:kp:17:GLN:NE2	2.39	0.54
2:ks:188:MET:O	2:ks:188:MET:SD	2.65	0.54
2:kC:136:PHE:HZ	2:kC:173:LEU:HD22	1.72	0.54
2:kD:12:LEU:HD21	2:lX:96:LEU:HD12	1.88	0.54
2:kR:238:ASN:O	2:kR:242:VAL:HG23	2.06	0.54
2:kV:197:LYS:CE	1:mW:100:LYS:N	2.60	0.54
1:lc:99:LEU:HD21	1:mQ:102:GLU:OE2	2.06	0.54
2:lj:14:THR:HG23	2:mK:12:LEU:HD21	1.89	0.54
1:ln:98:LEU:O	1:pP:102:GLU:CD	2.51	0.54
2:lH:81:GLU:O	2:lJ:57:ARG:N	2.39	0.54
2:lJ:96:LEU:HD12	2:oF:12:LEU:HD21	1.88	0.54
1:lR:82:ASP:OD1	1:lR:83:GLY:N	2.39	0.54
2:lY:188:MET:O	2:lY:188:MET:SD	2.65	0.54
2:lY:228:ALA:HB1	2:lY:283:LEU:HD11	1.88	0.54
2:mh:186:GLU:N	2:mh:186:GLU:OE1	2.41	0.54
2:mk:274:ALA:CB	2:mk:297:VAL:HG21	2.37	0.54
2:mm:243:TYR:O	2:mm:247:ARG:HG2	2.06	0.54
1:mI:57:VAL:HG12	1:mI:59:VAL:HG13	1.88	0.54
2:mK:136:PHE:HZ	2:mK:173:LEU:HD22	1.72	0.54
2:mN:100:GLY:N	2:mN:101:PRO:CD	2.70	0.54
1:mQ:86:SER:O	1:mQ:90:LEU:N	2.38	0.54
2:nb:100:GLY:N	2:nb:101:PRO:CD	2.69	0.54
2:nz:186:GLU:OE1	2:nz:186:GLU:N	2.41	0.54
2:nQ:60:ILE:O	1:pa:105:THR:HG23	2.08	0.54
1:ol:99:LEU:CD2	1:oL:60:ARG:HG2	2.37	0.54
2:or:240:GLU:OE2	2:or:291:ASN:ND2	2.40	0.54
2:oH:100:GLY:N	2:oH:101:PRO:CD	2.69	0.54
2:oV:100:GLY:N	2:oV:101:PRO:CD	2.70	0.54
2:pk:243:TYR:O	2:pk:247:ARG:HG2	2.06	0.54
1:ps:103:ARG:HB3	2:py:62:GLN:OE1	2.08	0.54
2:pu:205:MET:HE2	2:pI:63:ARG:HE	1.72	0.54
2:pM:188:MET:O	2:pM:188:MET:SD	2.65	0.54
2:pN:88:ARG:NH2	2:pN:200:ASP:OD1	2.40	0.54
1:pT:82:ASP:OD1	1:pT:83:GLY:N	2.39	0.54
3:qe:68:ALA:CB	4:qm:8:TYR:CE2	2.90	0.54
3:qf:61:ASP:CB	4:ql:33:SER:HB2	2.36	0.54
3:qh:68:ALA:CB	4:qj:8:TYR:CZ	2.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qh:141:LEU:HD23	3:qh:143:PHE:HE2	1.73	0.54
6:qq:122:ALA:O	6:qq:126:GLN:NE2	2.40	0.54
5:qt:392:LEU:HD13	5:qv:400:TYR:HH	1.71	0.54
1:ac:98:LEU:O	1:mD:102:GLU:CD	2.51	0.54
2:ag:186:GLU:OE1	2:ag:186:GLU:N	2.41	0.54
2:aj:60:ILE:O	1:ng:105:THR:HG23	2.08	0.54
2:am:224:TRP:CZ2	2:am:242:VAL:HG11	2.41	0.54
2:am:239:PHE:HE1	2:am:294:LEU:HD22	1.70	0.54
1:an:83:GLY:HA3	2:oc:8:LEU:CD1	2.37	0.54
2:ay:228:ALA:HB1	2:ay:283:LEU:HD11	1.89	0.54
2:az:117:LEU:HD21	2:az:211:TYR:CA	2.36	0.54
2:aI:63:ARG:HE	2:kb:205:MET:HE2	1.72	0.54
1:aR:98:LEU:O	1:je:102:GLU:CD	2.51	0.54
2:aY:60:ILE:O	1:ch:105:THR:HG23	2.08	0.54
1:bw:103:ARG:HB3	2:bC:62:GLN:OE1	2.08	0.54
2:bC:188:MET:O	2:bC:188:MET:SD	2.65	0.54
2:bQ:88:ARG:NH2	2:bQ:200:ASP:OD1	2.40	0.54
1:bW:82:ASP:OD1	1:bW:83:GLY:N	2.39	0.54
2:cn:63:ARG:HE	2:iv:205:MET:HE2	1.72	0.54
2:cr:188:MET:O	2:cr:188:MET:SD	2.65	0.54
2:cA:298:LEU:HD12	2:cA:298:LEU:O	2.06	0.54
2:cG:165:ASP:HB3	2:cG:173:LEU:HD13	1.87	0.54
1:cH:102:GLU:OE2	1:cN:99:LEU:HG	1.74	0.54
2:cR:60:ILE:O	1:po:105:THR:HG23	2.08	0.54
2:cU:86:VAL:O	2:cU:202:GLN:N	2.37	0.54
2:cU:88:ARG:NH2	2:cU:200:ASP:OD1	2.40	0.54
2:dd:187:ARG:NH2	2:di:192:PHE:O	2.40	0.54
2:di:117:LEU:HD21	2:di:211:TYR:CA	2.36	0.54
2:du:62:GLN:HE21	2:ks:197:LYS:HZ1	1.55	0.54
2:dG:15:SER:OG	2:dG:17:GLN:NE2	2.40	0.54
1:dR:103:ARG:HB3	2:dX:62:GLN:OE1	2.08	0.54
2:dT:8:LEU:CD1	1:nU:83:GLY:HA3	2.37	0.54
2:dT:12:LEU:HD21	2:nT:14:THR:HG23	1.89	0.54
2:dU:15:SER:OG	2:dU:17:GLN:NE2	2.39	0.54
2:dW:60:ILE:HG23	1:jK:105:THR:CG2	2.35	0.54
2:dY:88:ARG:NH2	2:dY:200:ASP:OD1	2.40	0.54
2:eg:117:LEU:HD21	2:eg:211:TYR:HA	1.88	0.54
2:eg:186:GLU:N	2:eg:186:GLU:OE1	2.41	0.54
2:em:239:PHE:HE1	2:em:294:LEU:HD22	1.69	0.54
1:eq:98:LEU:O	1:oZ:102:GLU:CD	2.51	0.54
1:et:98:LEU:HD13	2:ev:64:VAL:HG22	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eW:117:LEU:HD21	2:eW:211:TYR:HA	1.88	0.54
2:eW:189:LYS:HB2	2:eW:190:PRO:HD2	1.89	0.54
2:fc:88:ARG:NH2	2:fc:200:ASP:OD1	2.40	0.54
1:fd:86:SER:O	1:fd:90:LEU:N	2.38	0.54
2:fk:186:GLU:OE1	2:fk:186:GLU:N	2.41	0.54
2:fk:298:LEU:HD12	2:fk:298:LEU:O	2.06	0.54
2:fl:132:ASP:OD2	2:fl:143:VAL:HG22	2.07	0.54
2:fz:8:LEU:CD1	1:mo:83:GLY:HA3	2.37	0.54
2:fB:60:ILE:O	1:nW:105:THR:HG23	2.08	0.54
2:fD:228:ALA:HB1	2:fD:283:LEU:HD11	1.88	0.54
2:fE:209:TYR:OH	2:mh:93:ASP:OD2	2.22	0.54
2:fM:215:SER:O	2:fM:216:ARG:NE	2.38	0.54
2:gb:8:LEU:CD1	1:in:83:GLY:HA3	2.37	0.54
1:gk:99:LEU:CD2	1:gK:60:ARG:HG2	2.37	0.54
1:gn:99:LEU:HD21	1:hZ:102:GLU:OE2	2.06	0.54
1:gn:102:GLU:HA	2:hT:198:GLU:CG	2.35	0.54
1:gv:83:GLY:HA3	2:hT:8:LEU:CD1	2.37	0.54
1:gA:105:THR:CG2	2:pj:60:ILE:HG23	2.35	0.54
1:gP:102:GLU:HA	2:ih:198:GLU:CG	2.35	0.54
2:gQ:117:LEU:HD21	2:gQ:211:TYR:HA	1.88	0.54
2:gW:117:LEU:HD21	2:gW:211:TYR:HA	1.90	0.54
1:hc:82:ASP:OD1	1:hc:83:GLY:N	2.39	0.54
2:hg:15:SER:OG	2:hg:17:GLN:NE2	2.39	0.54
2:hs:117:LEU:HD21	2:hs:211:TYR:HA	1.88	0.54
1:hZ:104:CYS:HA	2:kH:62:GLN:OE1	2.07	0.54
2:hH:60:ILE:O	1:kw:105:THR:HG23	2.08	0.54
2:hJ:228:ALA:HB1	2:hJ:283:LEU:HD11	1.88	0.54
2:hU:15:SER:OG	2:hU:17:GLN:NE2	2.39	0.54
2:hU:192:PHE:CB	2:hU:195:MET:HE2	2.38	0.54
2:ig:67:ASP:OD1	1:in:95:SER:OG	2.13	0.54
2:im:237:VAL:O	2:im:241:LYS:HD3	2.07	0.54
2:iu:117:LEU:HD21	2:iu:211:TYR:HA	1.88	0.54
2:iA:117:LEU:HD21	2:iA:211:TYR:CA	2.37	0.54
2:iN:188:MET:O	2:iN:188:MET:SD	2.65	0.54
2:iN:228:ALA:HB1	2:iN:283:LEU:HD11	1.89	0.54
2:iO:36:THR:O	2:iO:175:THR:OG1	2.18	0.54
2:iW:117:LEU:HD21	2:iW:211:TYR:HA	1.88	0.54
2:iY:15:SER:OG	2:iY:17:GLN:NE2	2.39	0.54
2:iY:163:ALA:HB3	2:iY:265:VAL:HG12	1.88	0.54
1:jG:104:CYS:HA	2:oX:62:GLN:OE1	2.07	0.54
1:jI:99:LEU:CD2	1:oj:60:ARG:HG2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jR:171:TYR:OH	2:jR:175:THR:OG1	2.12	0.54
1:kn:103:ARG:HB3	2:ks:62:GLN:OE1	2.08	0.54
1:kv:102:GLU:CD	1:lP:98:LEU:O	2.51	0.54
2:kC:132:ASP:OD2	2:kC:143:VAL:HG22	2.07	0.54
2:kD:192:PHE:CB	2:kD:195:MET:HE2	2.38	0.54
2:kE:274:ALA:CB	2:kE:297:VAL:HG21	2.37	0.54
2:kG:188:MET:O	2:kG:188:MET:SD	2.65	0.54
2:kV:36:THR:O	2:kV:175:THR:OG1	2.18	0.54
2:le:63:ARG:HE	2:mK:205:MET:HE2	1.72	0.54
2:le:187:ARG:NH2	2:lj:192:PHE:O	2.40	0.54
1:lq:103:ARG:HB3	2:lw:62:GLN:OE1	2.08	0.54
1:ly:86:SER:O	1:ly:90:LEU:N	2.38	0.54
1:lE:103:ARG:HB3	2:lK:62:GLN:OE1	2.08	0.54
2:lF:186:GLU:N	2:lF:186:GLU:OE1	2.41	0.54
2:lT:189:LYS:HB2	2:lT:190:PRO:HD2	1.89	0.54
2:lZ:117:LEU:HD21	2:lZ:211:TYR:HA	1.90	0.54
2:mP:117:LEU:HD21	2:mP:211:TYR:HA	1.90	0.54
1:mW:57:VAL:HG12	1:mW:59:VAL:HG13	1.88	0.54
2:na:274:ALA:CB	2:na:297:VAL:HG21	2.37	0.54
2:nc:188:MET:O	2:nc:188:MET:SD	2.65	0.54
2:nm:132:ASP:OD2	2:nm:143:VAL:HG22	2.07	0.54
1:nL:82:ASP:OD1	1:nL:83:GLY:N	2.39	0.54
2:nT:117:LEU:HD21	2:nT:211:TYR:CA	2.36	0.54
2:og:243:TYR:O	2:og:247:ARG:HG2	2.06	0.54
2:os:274:ALA:CB	2:os:297:VAL:HG21	2.37	0.54
2:ov:88:ARG:NH2	2:ov:200:ASP:OD1	2.40	0.54
2:ov:117:LEU:HD21	2:ov:211:TYR:HA	1.90	0.54
1:oQ:103:ARG:HB3	2:oW:62:GLN:OE1	2.08	0.54
2:oR:117:LEU:HD21	2:oR:211:TYR:HA	1.88	0.54
2:oS:132:ASP:OD2	2:oS:143:VAL:HG22	2.07	0.54
2:pg:136:PHE:HZ	2:pg:173:LEU:HD22	1.72	0.54
2:pt:186:GLU:N	2:pt:186:GLU:OE1	2.41	0.54
2:px:107:GLY:HA2	2:px:184:TYR:HE1	1.66	0.54
2:py:228:ALA:HB1	2:py:283:LEU:HD11	1.89	0.54
2:pz:88:ARG:NH2	2:pz:200:ASP:OD1	2.40	0.54
1:pA:86:SER:O	1:pA:90:LEU:N	2.38	0.54
1:pG:103:ARG:HB3	2:pM:62:GLN:OE1	2.08	0.54
2:pX:192:PHE:CB	2:pX:195:MET:HE2	2.38	0.54
5:qF:392:LEU:CD1	5:qH:400:TYR:HH	2.20	0.54
2:aw:63:ARG:HG2	2:hW:197:LYS:O	2.06	0.54
2:aH:186:GLU:OE1	2:aH:186:GLU:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aU:57:VAL:HG12	1:aU:59:VAL:HG13	1.88	0.54
2:aV:186:GLU:N	2:aV:186:GLU:OE1	2.41	0.54
1:bc:83:GLY:HA3	2:iJ:8:LEU:CD1	2.37	0.54
1:be:105:THR:HG23	2:kq:60:ILE:O	2.08	0.54
1:bf:98:LEU:O	1:ki:102:GLU:CD	2.51	0.54
2:bl:81:GLU:O	2:bn:57:ARG:N	2.39	0.54
2:bo:243:TYR:O	2:bo:247:ARG:HG2	2.06	0.54
1:bq:100:LYS:HD2	2:dq:197:LYS:HZ2	1.72	0.54
1:bq:102:GLU:OE2	1:dp:99:LEU:HG	1.74	0.54
1:br:102:GLU:CD	1:eS:98:LEU:O	2.51	0.54
1:br:104:CYS:HA	2:fc:62:GLN:OE1	2.06	0.54
1:bw:100:LYS:N	2:di:197:LYS:CE	2.60	0.54
2:by:221:PHE:HD1	2:by:242:VAL:HG22	1.70	0.54
2:bz:192:PHE:CB	2:bz:195:MET:HE2	2.38	0.54
2:bA:60:ILE:O	1:eR:105:THR:HG23	2.08	0.54
2:bA:63:ARG:HG2	2:fa:197:LYS:O	2.07	0.54
1:bF:60:ARG:HG2	1:gM:99:LEU:CD2	2.37	0.54
1:bK:100:LYS:HZ1	1:hL:100:LYS:CG	2.13	0.54
2:bP:224:TRP:NE1	2:bP:242:VAL:HG21	2.23	0.54
2:bQ:36:THR:O	2:bQ:175:THR:OG1	2.18	0.54
2:ca:15:SER:OG	2:ca:17:GLN:NE2	2.39	0.54
1:cf:100:LYS:CD	1:iH:100:LYS:NZ	2.71	0.54
2:cn:8:LEU:CD1	1:pA:83:GLY:HA3	2.37	0.54
1:cz:103:ARG:HB3	2:cF:62:GLN:OE1	2.08	0.54
1:cN:103:ARG:HB3	2:cT:62:GLN:OE1	2.08	0.54
2:cS:100:GLY:N	2:cS:101:PRO:CD	2.69	0.54
1:cY:99:LEU:CD2	1:dy:60:ARG:HG2	2.37	0.54
2:dc:43:ALA:O	2:dc:44:SER:OG	2.20	0.54
2:dh:188:MET:O	2:dh:188:MET:SD	2.65	0.54
2:ds:192:PHE:CB	2:ds:195:MET:HE2	2.38	0.54
2:dK:224:TRP:CZ2	2:dK:242:VAL:HG11	2.41	0.54
1:dM:104:CYS:HA	2:pN:62:GLN:OE1	2.07	0.54
2:eh:63:ARG:HE	2:nA:205:MET:HE2	1.72	0.54
2:em:224:TRP:CZ2	2:em:242:VAL:HG11	2.41	0.54
2:eu:186:GLU:OE1	2:eu:186:GLU:N	2.41	0.54
2:ey:197:LYS:O	2:pi:63:ARG:HG2	2.06	0.54
1:eB:86:SER:O	1:eB:90:LEU:N	2.38	0.54
1:eC:104:CYS:HA	2:im:62:GLN:OE1	2.06	0.54
1:eE:98:LEU:O	1:fe:102:GLU:CD	2.51	0.54
1:eH:53:GLU:N	1:eH:53:GLU:OE1	2.41	0.54
2:eK:15:SER:OG	2:eK:17:GLN:NE2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eL:60:ILE:O	1:ib:105:THR:HG23	2.08	0.54
2:eW:150:THR:OG1	2:eW:220:GLY:O	2.18	0.54
2:fb:243:TYR:O	2:fb:247:ARG:HG2	2.06	0.54
2:fc:117:LEU:HD21	2:fc:211:TYR:CA	2.36	0.54
1:ff:105:THR:HG23	2:ij:60:ILE:O	2.08	0.54
2:fk:189:LYS:HB2	2:fk:190:PRO:HD2	1.89	0.54
2:fm:163:ALA:HB3	2:fm:265:VAL:HG12	1.88	0.54
2:fo:9:ILE:O	2:fo:9:ILE:HG22	2.08	0.54
1:fx:98:LEU:HD13	2:fz:64:VAL:HG22	1.87	0.54
1:fx:103:ARG:HB3	2:fD:62:GLN:OE1	2.08	0.54
2:fy:117:LEU:HD21	2:fy:211:TYR:HA	1.88	0.54
1:fl:99:LEU:CD2	1:mp:60:ARG:HG2	2.37	0.54
2:fM:189:LYS:HB2	2:fM:190:PRO:HD2	1.89	0.54
2:fS:117:LEU:HD21	2:fS:211:TYR:CA	2.37	0.54
1:fU:102:GLU:CD	1:md:98:LEU:O	2.51	0.54
2:gf:171:TYR:OH	2:gf:175:THR:OG1	2.12	0.54
2:gq:240:GLU:OE2	2:gq:291:ASN:ND2	2.40	0.54
2:gu:86:VAL:O	2:gu:202:GLN:N	2.37	0.54
2:gF:274:ALA:CB	2:gF:297:VAL:HG21	2.37	0.54
2:gG:9:ILE:HG22	2:gG:9:ILE:O	2.08	0.54
2:gG:60:ILE:HG23	1:pd:105:THR:CG2	2.35	0.54
2:gI:237:VAL:O	2:gI:241:LYS:HD3	2.08	0.54
1:gX:86:SER:O	1:gX:90:LEU:N	2.38	0.54
2:hk:14:THR:HG23	2:lG:12:LEU:HD21	1.89	0.54
2:ht:240:GLU:OE2	2:ht:291:ASN:ND2	2.39	0.54
2:hx:53:PHE:O	2:hx:255:ARG:NH2	2.36	0.54
2:hx:190:PRO:HG2	5:qx:47:ARG:HH11	1.73	0.54
1:hB:98:LEU:O	1:lN:102:GLU:CD	2.50	0.54
2:hY:36:THR:O	2:hY:175:THR:OG1	2.18	0.54
2:jb:188:MET:O	2:jb:188:MET:SD	2.65	0.54
1:jj:103:ARG:HB3	2:jp:62:GLN:OE1	2.08	0.54
2:jp:188:MET:SD	2:jp:188:MET:O	2.65	0.54
1:jt:105:THR:HG23	2:kd:60:ILE:O	2.08	0.54
2:jy:298:LEU:HD12	2:jy:298:LEU:O	2.06	0.54
2:jE:237:VAL:O	2:jE:241:LYS:HD3	2.08	0.54
1:jK:82:ASP:OD1	1:jK:83:GLY:N	2.39	0.54
2:kc:192:PHE:CB	2:kc:195:MET:HE2	2.38	0.54
2:ko:32:LEU:HD21	5:qF:178:PRO:CD	2.37	0.54
2:ko:186:GLU:OE1	2:ko:186:GLU:N	2.41	0.54
1:kA:57:VAL:HG12	1:kA:59:VAL:HG13	1.88	0.54
2:kC:12:LEU:HD21	2:kV:14:THR:HG23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kQ:136:PHE:HZ	2:kQ:173:LEU:HD22	1.72	0.54
2:kT:107:GLY:HA2	2:kT:184:TYR:HE1	1.66	0.54
2:kU:188:MET:O	2:kU:188:MET:SD	2.65	0.54
2:le:132:ASP:OD2	2:le:143:VAL:HG22	2.07	0.54
2:lh:96:LEU:HD12	2:lH:12:LEU:HD21	1.88	0.54
2:lF:298:LEU:HD12	2:lF:298:LEU:O	2.06	0.54
2:lL:62:GLN:OE1	1:ox:104:CYS:HA	2.07	0.54
2:lT:186:GLU:N	2:lT:186:GLU:OE1	2.41	0.54
2:lU:187:ARG:NH2	2:lZ:192:PHE:O	2.40	0.54
2:mn:86:VAL:O	2:mn:202:GLN:N	2.37	0.54
2:mx:163:ALA:HB3	2:mx:265:VAL:HG12	1.88	0.54
2:my:274:ALA:CB	2:my:297:VAL:HG21	2.37	0.54
2:mY:187:ARG:NH2	2:nd:192:PHE:O	2.40	0.54
2:nb:9:ILE:HG22	2:nb:9:ILE:O	2.08	0.54
2:nd:117:LEU:HD21	2:nd:211:TYR:HA	1.90	0.54
2:nd:237:VAL:O	2:nd:241:LYS:HD3	2.08	0.54
2:nq:188:MET:O	2:nq:188:MET:SD	2.65	0.54
2:nA:136:PHE:HZ	2:nA:173:LEU:HD22	1.72	0.54
2:nB:192:PHE:CB	2:nB:195:MET:HE2	2.38	0.54
2:nE:224:TRP:NE1	2:nE:242:VAL:HG21	2.23	0.54
2:nN:186:GLU:OE1	2:nN:186:GLU:N	2.41	0.54
2:nO:8:LEU:CD1	1:oi:83:GLY:HA3	2.37	0.54
2:ob:186:GLU:N	2:ob:186:GLU:OE1	2.41	0.54
2:od:238:ASN:O	2:od:242:VAL:HG23	2.06	0.54
2:op:298:LEU:HD12	2:op:298:LEU:O	2.06	0.54
2:or:192:PHE:CB	2:or:195:MET:HE2	2.38	0.54
1:ow:86:SER:O	1:ow:90:LEU:N	2.38	0.54
2:oW:243:TYR:O	2:oW:247:ARG:HG2	2.06	0.54
2:pi:274:ALA:CB	2:pi:297:VAL:HG21	2.37	0.54
1:ps:57:VAL:HG12	1:ps:59:VAL:HG13	1.88	0.54
2:pV:163:ALA:HB3	2:pV:265:VAL:HG12	1.88	0.54
2:pw:274:ALA:CB	2:pw:297:VAL:HG21	2.37	0.54
2:py:224:TRP:NE1	2:py:242:VAL:HG21	2.23	0.54
1:pG:53:GLU:OE1	1:pG:53:GLU:N	2.41	0.54
2:pK:274:ALA:CB	2:pK:297:VAL:HG21	2.37	0.54
2:qa:188:MET:O	2:qa:188:MET:SD	2.65	0.54
3:qe:66:GLN:CA	4:qm:194:LEU:HD12	2.19	0.54
3:qg:68:ALA:CA	4:qk:8:TYR:OH	2.56	0.54
5:qz:53:GLU:CD	5:qB:35:HIS:CE1	2.80	0.54
5:qz:251:LEU:O	5:qz:255:VAL:HG23	2.06	0.54
6:qI:17:LYS:HE3	6:qK:81:ILE:HG21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ab:105:THR:HG23	2:mM:60:ILE:O	2.08	0.54
1:ac:59:VAL:HG12	1:ac:61:ALA:H	1.73	0.54
2:ah:12:LEU:HD21	2:oX:14:THR:HG23	1.89	0.54
1:ao:102:GLU:CD	1:hO:98:LEU:O	2.51	0.54
2:ax:197:LYS:O	2:dt:63:ARG:HG2	2.06	0.54
1:aG:103:ARG:HB3	2:aM:62:GLN:OE1	2.08	0.54
2:aK:274:ALA:CB	2:aK:297:VAL:HG21	2.37	0.54
2:aN:14:THR:HG23	2:kb:12:LEU:HD21	1.89	0.54
2:aN:117:LEU:HD21	2:aN:211:TYR:HA	1.90	0.54
1:aP:60:ARG:HG2	1:ci:99:LEU:CD2	2.37	0.54
1:aR:99:LEU:CD2	1:je:60:ARG:HG2	2.37	0.54
1:bw:102:GLU:HA	2:dd:198:GLU:CG	2.35	0.54
2:bB:197:LYS:O	2:cb:63:ARG:HG2	2.06	0.54
1:bH:98:LEU:O	1:gi:102:GLU:CD	2.51	0.54
1:bK:53:GLU:OE1	1:bK:53:GLU:N	2.41	0.54
1:bK:99:LEU:HD21	1:hL:102:GLU:OE2	2.06	0.54
2:bM:174:ASP:OD1	2:bM:214:ARG:NH2	2.41	0.54
2:bP:188:MET:O	2:bP:188:MET:SD	2.65	0.54
2:bP:228:ALA:HB1	2:bP:283:LEU:HD11	1.89	0.54
1:bX:100:LYS:NZ	1:dx:100:LYS:CD	2.71	0.54
2:ca:192:PHE:CB	2:ca:195:MET:HE2	2.38	0.54
1:cu:60:ARG:HG2	1:dO:99:LEU:CD2	2.37	0.54
1:cw:98:LEU:O	1:pB:102:GLU:CD	2.51	0.54
1:cz:53:GLU:N	1:cz:53:GLU:OE1	2.41	0.54
2:cF:171:TYR:OH	2:cF:175:THR:OG1	2.12	0.54
2:cG:237:VAL:O	2:cG:241:LYS:HD3	2.08	0.54
1:cK:99:LEU:CD2	1:iC:60:ARG:HG2	2.37	0.54
1:cN:53:GLU:N	1:cN:53:GLU:OE1	2.41	0.54
2:cQ:174:ASP:OD1	2:cQ:214:ARG:NH2	2.41	0.54
2:de:5:THR:HG22	1:gx:87:ASP:HB3	1.87	0.54
2:di:14:THR:HG23	2:eJ:12:LEU:HD21	1.89	0.54
1:dm:99:LEU:CD2	1:hM:60:ARG:HG2	2.37	0.54
2:dw:117:LEU:HD21	2:dw:211:TYR:HA	1.90	0.54
2:dw:237:VAL:O	2:dw:241:LYS:HD3	2.08	0.54
2:dJ:224:TRP:NE1	2:dJ:242:VAL:HG21	2.23	0.54
1:dL:100:LYS:CD	1:pe:100:LYS:NZ	2.71	0.54
2:dX:192:PHE:CZ	2:oU:196:THR:HG21	2.42	0.54
1:ef:100:LYS:HZ1	1:nG:100:LYS:CE	2.20	0.54
2:ey:96:LEU:HD12	2:ph:12:LEU:HD21	1.88	0.54
2:eI:93:ASP:OD2	2:gu:209:TYR:OH	2.22	0.54
2:eK:174:ASP:OD1	2:eK:214:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eM:96:LEU:HD12	2:fm:12:LEU:HD21	1.88	0.54
2:eY:240:GLU:OE2	2:eY:291:ASN:ND2	2.39	0.54
2:fm:192:PHE:CB	2:fm:195:MET:HE2	2.38	0.54
2:fy:186:GLU:N	2:fy:186:GLU:OE1	2.41	0.54
2:fy:189:LYS:HB2	2:fy:190:PRO:HD2	1.89	0.54
2:fA:192:PHE:CB	2:fA:195:MET:HE2	2.38	0.54
2:fE:237:VAL:O	2:fE:241:LYS:HD3	2.08	0.54
1:fK:105:THR:CG2	2:kF:60:ILE:HG23	2.35	0.54
1:fL:99:LEU:HD21	1:ma:102:GLU:OE2	2.06	0.54
2:fN:132:ASP:OD2	2:fN:143:VAL:HG22	2.07	0.54
2:fP:63:ARG:HG2	2:hi:197:LYS:O	2.07	0.54
1:fT:100:LYS:CE	1:fZ:100:LYS:HZ1	2.20	0.54
1:fZ:53:GLU:N	1:fZ:53:GLU:OE1	2.41	0.54
2:gd:60:ILE:O	1:mc:105:THR:HG23	2.08	0.54
2:gd:274:ALA:CB	2:gd:297:VAL:HG21	2.37	0.54
2:gq:81:GLU:O	2:gs:57:ARG:N	2.39	0.54
2:gr:274:ALA:CB	2:gr:297:VAL:HG21	2.37	0.54
2:gu:237:VAL:O	2:gu:241:LYS:HD3	2.08	0.54
1:gB:53:GLU:OE1	1:gB:53:GLU:N	2.41	0.54
2:gC:186:GLU:N	2:gC:186:GLU:OE1	2.41	0.54
2:gH:188:MET:O	2:gH:188:MET:SD	2.65	0.54
2:gI:117:LEU:HD21	2:gI:211:TYR:HA	1.90	0.54
1:gP:53:GLU:N	1:gP:53:GLU:OE1	2.41	0.54
2:gQ:189:LYS:HB2	2:gQ:190:PRO:HD2	1.89	0.54
2:gR:8:LEU:CD1	1:ma:83:GLY:HA3	2.37	0.54
1:gY:60:ARG:HG2	1:mr:99:LEU:CD2	2.37	0.54
1:hd:53:GLU:OE1	1:hd:53:GLU:N	2.41	0.54
1:ho:99:LEU:CD2	1:kJ:60:ARG:HG2	2.37	0.54
2:hv:60:ILE:HG23	1:iU:105:THR:CG2	2.35	0.54
2:hx:93:ASP:HA	5:qz:44:LYS:CE	2.37	0.54
1:hz:60:ARG:HG2	1:kx:99:LEU:CD2	2.37	0.54
2:hF:186:GLU:N	2:hF:186:GLU:OE1	2.41	0.54
2:hJ:224:TRP:NE1	2:hJ:242:VAL:HG21	2.23	0.54
1:hR:53:GLU:N	1:hR:53:GLU:OE1	2.41	0.54
1:hZ:86:SER:O	1:hZ:90:LEU:N	2.38	0.54
1:ie:102:GLU:CG	1:nt:99:LEU:CD1	2.84	0.54
2:ih:221:PHE:HD1	2:ih:242:VAL:HG22	1.70	0.54
2:il:228:ALA:HB1	2:il:283:LEU:HD11	1.89	0.54
2:im:117:LEU:HD21	2:im:211:TYR:HA	1.90	0.54
1:io:60:ARG:HG2	1:pR:99:LEU:CD2	2.37	0.54
2:iy:9:ILE:O	2:iy:9:ILE:HG22	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iD:105:THR:HG23	2:pw:60:ILE:O	2.08	0.54
2:iO:62:GLN:OE1	1:pn:104:CYS:HA	2.07	0.54
1:iV:53:GLU:N	1:iV:53:GLU:OE1	2.41	0.54
2:iY:12:LEU:HD21	2:kr:96:LEU:HD12	1.88	0.54
2:iY:192:PHE:CB	2:iY:195:MET:HE2	2.38	0.54
2:jl:12:LEU:HD21	2:lx:14:THR:HG23	1.89	0.54
2:jl:132:ASP:OD2	2:jl:143:VAL:HG22	2.07	0.54
2:jp:228:ALA:HB1	2:jp:283:LEU:HD11	1.88	0.54
2:jz:136:PHE:HZ	2:jz:173:LEU:HD22	1.72	0.54
2:jz:187:ARG:NH2	2:jE:192:PHE:O	2.40	0.54
2:jz:205:MET:HE2	2:pW:63:ARG:HE	1.72	0.54
1:jL:103:ARG:HB3	2:jR:62:GLN:OE1	2.08	0.54
2:jP:63:ARG:HG2	2:oV:197:LYS:O	2.06	0.54
1:jT:86:SER:O	1:jT:90:LEU:N	2.38	0.54
1:jZ:53:GLU:OE1	1:jZ:53:GLU:N	2.41	0.54
1:jZ:103:ARG:HB3	2:kf:62:GLN:OE1	2.08	0.54
2:ka:186:GLU:N	2:ka:186:GLU:OE1	2.41	0.54
2:kf:188:MET:O	2:kf:188:MET:SD	2.65	0.54
2:kH:117:LEU:HD21	2:kH:211:TYR:HA	1.90	0.54
2:kV:117:LEU:HD21	2:kV:211:TYR:HA	1.90	0.54
2:lr:117:LEU:HD21	2:lr:211:TYR:HA	1.88	0.54
2:lv:9:ILE:HG22	2:lv:9:ILE:O	2.08	0.54
2:lx:117:LEU:HD21	2:lx:211:TYR:CA	2.37	0.54
2:II:274:ALA:CB	2:II:297:VAL:HG21	2.37	0.54
2:IJ:197:LYS:O	2:oG:63:ARG:HG2	2.06	0.54
1:IM:83:GLY:HA3	2:mY:8:LEU:CD1	2.37	0.54
2:IY:240:GLU:HA	2:IY:243:TYR:CE2	2.43	0.54
2:mh:43:ALA:O	2:mh:44:SER:OG	2.20	0.54
2:mi:8:LEU:CD1	1:mC:83:GLY:HA3	2.37	0.54
1:mF:59:VAL:HG12	1:mF:61:ALA:H	1.73	0.54
2:mL:192:PHE:CB	2:mL:195:MET:HE2	2.38	0.54
2:mP:237:VAL:O	2:mP:241:LYS:HD3	2.08	0.54
2:nd:224:TRP:CZ2	2:nd:242:VAL:HG11	2.41	0.54
2:nl:298:LEU:HD12	2:nl:298:LEU:O	2.06	0.54
2:nm:136:PHE:HZ	2:nm:173:LEU:HD22	1.72	0.54
2:nq:224:TRP:NE1	2:nq:242:VAL:HG21	2.23	0.54
1:ny:53:GLU:N	1:ny:53:GLU:OE1	2.41	0.54
1:ny:98:LEU:HD13	2:nA:64:VAL:HG22	1.87	0.54
2:nB:81:GLU:O	2:nD:57:ARG:N	2.39	0.54
2:nF:117:LEU:HD21	2:nF:211:TYR:CA	2.36	0.54
2:nN:117:LEU:HD21	2:nN:211:TYR:HA	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:og:224:TRP:NE1	2:og:242:VAL:HG21	2.23	0.54
1:oi:86:SER:O	1:oi:90:LEU:N	2.38	0.54
1:on:82:ASP:OD1	1:on:83:GLY:N	2.39	0.54
2:or:163:ALA:HB3	2:or:265:VAL:HG12	1.88	0.54
2:oJ:117:LEU:HD21	2:oJ:211:TYR:HA	1.90	0.54
1:oQ:53:GLU:OE1	1:oQ:53:GLU:N	2.41	0.54
1:pr:82:ASP:OD1	1:pr:83:GLY:N	2.39	0.54
2:pu:187:ARG:NH2	2:pz:192:PHE:O	2.40	0.54
2:pV:174:ASP:OD1	2:pV:214:ARG:NH2	2.41	0.54
2:pH:186:GLU:N	2:pH:186:GLU:OE1	2.41	0.54
2:pN:117:LEU:HD21	2:pN:211:TYR:HA	1.90	0.54
2:pV:186:GLU:N	2:pV:186:GLU:OE1	2.41	0.54
6:qs:122:ALA:O	6:qs:126:GLN:NE2	2.40	0.54
6:qw:8:ASP:HB3	6:qy:39:ARG:HH22	1.72	0.54
6:qy:17:LYS:HE3	6:qA:81:ILE:HG21	1.89	0.54
2:al:224:TRP:NE1	2:al:242:VAL:HG21	2.23	0.54
2:am:165:ASP:HB3	2:am:173:LEU:HD13	1.88	0.54
1:aq:59:VAL:HG12	1:aq:61:ALA:H	1.73	0.54
1:aq:98:LEU:O	1:dk:102:GLU:CD	2.51	0.54
2:aH:117:LEU:HD21	2:aH:211:TYR:HA	1.88	0.54
2:aI:8:LEU:CD1	1:jd:83:GLY:HA3	2.37	0.54
2:aM:240:GLU:HA	2:aM:243:TYR:CE2	2.43	0.54
1:bc:100:LYS:CD	1:bi:100:LYS:NZ	2.71	0.54
1:bi:103:ARG:HB3	2:bo:62:GLN:OE1	2.08	0.54
2:bp:62:GLN:OE1	1:ki:104:CYS:HA	2.07	0.54
2:bz:197:LYS:HZ2	1:eS:99:LEU:CA	2.21	0.54
1:bE:102:GLU:OE2	1:hR:99:LEU:HD21	2.06	0.54
2:bL:111:GLY:CA	5:qr:178:PRO:CD	2.85	0.54
1:bX:53:GLU:N	1:bX:53:GLU:OE1	2.41	0.54
2:bY:186:GLU:N	2:bY:186:GLU:OE1	2.41	0.54
2:ca:174:ASP:OD1	2:ca:214:ARG:NH2	2.41	0.54
1:cl:103:ARG:HB3	2:cr:62:GLN:OE1	2.08	0.54
2:co:81:GLU:O	2:cq:57:ARG:N	2.39	0.54
2:cs:14:THR:HG23	2:iv:12:LEU:HD21	1.89	0.54
1:cw:99:LEU:CD2	1:pB:60:ARG:HG2	2.37	0.54
2:cB:8:LEU:CD1	1:cV:83:GLY:HA3	2.37	0.54
2:cC:12:LEU:HD21	2:dW:96:LEU:HD12	1.88	0.54
1:cK:59:VAL:HG12	1:cK:61:ALA:H	1.73	0.54
2:cP:8:LEU:CD1	1:fd:83:GLY:HA3	2.37	0.54
2:cT:224:TRP:NE1	2:cT:242:VAL:HG21	2.23	0.54
2:de:174:ASP:OD1	2:de:214:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dw:36:THR:O	2:dw:175:THR:OG1	2.18	0.54
2:dK:237:VAL:O	2:dK:241:LYS:HD3	2.08	0.54
2:dS:117:LEU:HD21	2:dS:211:TYR:HA	1.88	0.54
2:dV:60:ILE:O	1:pC:105:THR:HG23	2.08	0.54
2:eg:189:LYS:HB2	2:eg:190:PRO:HD2	1.89	0.54
2:el:224:TRP:NE1	2:el:242:VAL:HG21	2.23	0.54
2:ex:274:ALA:CB	2:ex:297:VAL:HG21	2.37	0.54
1:eH:99:LEU:HD21	1:gv:102:GLU:OE2	2.06	0.54
1:eH:103:ARG:HB3	2:eN:62:GLN:OE1	2.08	0.54
2:eN:192:PHE:CZ	2:gr:196:THR:HG21	2.42	0.54
2:eX:187:ARG:NH2	2:fc:192:PHE:O	2.40	0.54
2:eZ:274:ALA:CB	2:eZ:297:VAL:HG21	2.37	0.54
2:fa:18:LYS:HD3	2:fa:96:LEU:HD13	1.90	0.54
1:fg:99:LEU:CD2	1:ia:60:ARG:HG2	2.37	0.54
1:fj:57:VAL:HG12	1:fj:59:VAL:HG13	1.88	0.54
2:fp:224:TRP:NE1	2:fp:242:VAL:HG21	2.23	0.54
2:fq:88:ARG:NH2	2:fq:200:ASP:OD1	2.40	0.54
2:fq:237:VAL:O	2:fq:241:LYS:HD3	2.08	0.54
1:fs:60:ARG:HG2	1:nX:99:LEU:CD2	2.37	0.54
1:fx:100:LYS:HZ1	1:ns:100:LYS:CE	2.20	0.54
2:fA:191:SER:OG	2:oe:186:GLU:O	2.08	0.54
1:fW:99:LEU:CD2	1:nt:60:ARG:HG2	2.37	0.54
2:gu:117:LEU:HD21	2:gu:211:TYR:HA	1.90	0.54
2:gH:228:ALA:HB1	2:gH:283:LEU:HD11	1.88	0.54
2:gW:197:LYS:CE	1:lS:100:LYS:N	2.60	0.54
2:hh:60:ILE:O	1:mq:105:THR:HG23	2.08	0.54
1:hr:70:GLY:O	6:qG:117:LYS:HG2	2.07	0.54
2:hw:224:TRP:NE1	2:hw:242:VAL:HG21	2.23	0.54
2:hx:197:LYS:CE	1:hE:100:LYS:N	2.60	0.54
1:hB:99:LEU:CD2	1:lN:60:ARG:HG2	2.37	0.54
2:hG:192:PHE:CB	2:hG:195:MET:HE2	2.38	0.54
1:hR:57:VAL:HG12	1:hR:59:VAL:HG13	1.88	0.54
2:hU:174:ASP:OD1	2:hU:214:ARG:NH2	2.41	0.54
2:hY:237:VAL:O	2:hY:241:LYS:HD3	2.08	0.54
1:if:53:GLU:OE1	1:if:53:GLU:N	2.41	0.54
2:ig:186:GLU:N	2:ig:186:GLU:OE1	2.41	0.54
2:il:188:MET:O	2:il:188:MET:SD	2.65	0.54
1:ip:105:THR:HG23	2:lu:60:ILE:O	2.08	0.54
1:iq:59:VAL:HG12	1:iq:61:ALA:H	1.73	0.54
1:iq:98:LEU:O	1:ll:102:GLU:CD	2.51	0.54
2:iv:58:GLU:OE1	2:jN:78:LYS:NZ	2.27	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iA:237:VAL:O	2:iA:241:LYS:HD3	2.08	0.54
2:iI:298:LEU:O	2:iI:298:LEU:HD12	2.06	0.54
2:iZ:60:ILE:O	1:kj:105:THR:HG23	2.08	0.54
2:jc:165:ASP:HB3	2:jc:173:LEU:HD13	1.88	0.54
1:jd:86:SER:O	1:jd:90:LEU:N	2.38	0.54
1:jj:53:GLU:N	1:jj:53:GLU:OE1	2.41	0.54
2:jm:174:ASP:OD1	2:jm:214:ARG:NH2	2.41	0.54
2:jy:117:LEU:HD21	2:jy:211:TYR:HA	1.88	0.54
2:jS:62:GLN:OE1	1:oj:104:CYS:HA	2.06	0.54
1:jV:105:THR:HG23	2:na:60:ILE:O	2.08	0.54
2:ko:117:LEU:HD21	2:ko:211:TYR:HA	1.88	0.54
2:ko:170:TRP:CD1	5:qF:30:LYS:HG3	2.43	0.54
2:kt:36:THR:O	2:kt:175:THR:OG1	2.18	0.54
1:kO:57:VAL:HG12	1:kO:59:VAL:HG13	1.88	0.54
1:lc:53:GLU:N	1:lc:53:GLU:OE1	2.41	0.54
2:lr:186:GLU:N	2:lr:186:GLU:OE1	2.41	0.54
2:lw:243:TYR:O	2:lw:247:ARG:HG2	2.06	0.54
1:lE:57:VAL:HG12	1:lE:59:VAL:HG13	1.88	0.54
2:lH:15:SER:OG	2:lH:17:GLN:NE2	2.39	0.54
2:lH:240:GLU:OE2	2:lH:291:ASN:ND2	2.40	0.54
2:lK:224:TRP:NE1	2:lK:242:VAL:HG21	2.23	0.54
2:lL:117:LEU:HD21	2:lL:211:TYR:CA	2.36	0.54
2:lU:132:ASP:OD2	2:lU:143:VAL:HG22	2.07	0.54
2:mj:197:LYS:HZ1	1:nv:99:LEU:CA	2.10	0.54
1:mu:103:ARG:HB3	2:mA:62:GLN:OE1	2.08	0.54
1:mI:103:ARG:HB3	2:mO:62:GLN:OE1	2.08	0.54
2:mJ:93:ASP:OD2	2:ov:209:TYR:OH	2.22	0.54
2:mP:165:ASP:HB3	2:mP:173:LEU:HD13	1.88	0.54
2:nb:18:LYS:HD3	2:nb:96:LEU:HD13	1.90	0.54
1:nk:103:ARG:HB3	2:nq:62:GLN:OE1	2.08	0.54
2:nn:163:ALA:HB3	2:nn:265:VAL:HG12	1.88	0.54
1:nJ:59:VAL:HG12	1:nJ:61:ALA:H	1.73	0.54
2:nP:240:GLU:OE2	2:nP:291:ASN:ND2	2.40	0.54
2:nR:9:ILE:O	2:nR:9:ILE:HG22	2.08	0.54
2:of:18:LYS:HD3	2:of:96:LEU:HD13	1.90	0.54
2:oh:117:LEU:HD21	2:oh:211:TYR:HA	1.90	0.54
1:oo:53:GLU:N	1:oo:53:GLU:OE1	2.41	0.54
2:or:81:GLU:O	2:ot:57:ARG:N	2.39	0.54
1:oC:53:GLU:N	1:oC:53:GLU:OE1	2.41	0.54
2:oD:186:GLU:OE1	2:oD:186:GLU:N	2.41	0.54
2:oX:239:PHE:HE1	2:oX:294:LEU:HD22	1.69	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pg:132:ASP:OD2	2:pg:143:VAL:HG22	2.07	0.54
2:pl:117:LEU:HD21	2:pl:211:TYR:HA	1.90	0.54
2:pu:136:PHE:HZ	2:pu:173:LEU:HD22	1.72	0.54
2:py:188:MET:O	2:py:188:MET:SD	2.65	0.54
2:pI:221:PHE:HD1	2:pI:242:VAL:HG22	1.70	0.54
2:pX:174:ASP:OD1	2:pX:214:ARG:NH2	2.41	0.54
2:qa:228:ALA:HB1	2:qa:283:LEU:HD11	1.89	0.54
3:qh:67:ARG:CB	4:qj:194:LEU:CD1	2.85	0.54
6:qq:8:ASP:HB3	6:qs:39:ARG:HH22	1.72	0.54
6:qy:8:ASP:HB3	6:qA:39:ARG:HH22	1.72	0.54
6:qK:122:ALA:O	6:qK:126:GLN:NE2	2.40	0.54
1:af:103:ARG:HB3	2:al:62:GLN:OE1	2.08	0.54
2:am:117:LEU:HD21	2:am:211:TYR:HA	1.90	0.54
2:av:81:GLU:O	2:ax:57:ARG:N	2.39	0.54
1:aB:102:GLU:CD	1:kL:98:LEU:O	2.51	0.54
1:aC:105:THR:HG23	2:hu:60:ILE:O	2.08	0.54
2:aI:136:PHE:HZ	2:aI:173:LEU:HD22	1.72	0.54
2:aZ:18:LYS:HD3	2:aZ:96:LEU:HD13	1.90	0.54
1:bs:99:LEU:CA	1:eR:102:GLU:OE1	2.28	0.54
2:by:8:LEU:CD1	1:hZ:83:GLY:HA3	2.37	0.54
2:bL:117:LEU:HD21	2:bL:211:TYR:HA	1.88	0.54
2:bO:100:GLY:N	2:bO:101:PRO:CD	2.70	0.54
1:bT:105:THR:HG23	2:eZ:60:ILE:O	2.08	0.54
2:bY:117:LEU:HD21	2:bY:211:TYR:HA	1.88	0.54
2:cc:9:ILE:O	2:cc:9:ILE:HG22	2.08	0.54
2:ce:88:ARG:NH2	2:ce:200:ASP:OD1	2.40	0.54
1:ch:82:ASP:OD1	1:ch:83:GLY:N	2.41	0.54
2:cm:117:LEU:HD21	2:cm:211:TYR:HA	1.88	0.54
2:co:174:ASP:OD1	2:co:214:ARG:NH2	2.41	0.54
1:cu:102:GLU:CD	1:dO:98:LEU:O	2.50	0.54
2:cD:63:ARG:HG2	2:dW:197:LYS:O	2.06	0.54
2:cT:240:GLU:HA	2:cT:243:TYR:CE2	2.43	0.54
1:cX:105:THR:HG23	2:dH:60:ILE:O	2.08	0.54
2:dd:136:PHE:HZ	2:dd:173:LEU:HD22	1.72	0.54
2:du:96:LEU:HD12	2:hU:12:LEU:HD21	1.88	0.54
2:dv:240:GLU:HA	2:dv:243:TYR:CE2	2.43	0.54
1:dA:98:LEU:O	1:gw:102:GLU:CD	2.51	0.54
1:dD:102:GLU:HA	2:eX:198:GLU:CG	2.35	0.54
1:dD:103:ARG:HB3	2:dJ:62:GLN:OE1	2.08	0.54
2:dI:197:LYS:O	2:gF:63:ARG:HG2	2.07	0.54
2:dU:240:GLU:OE2	2:dU:291:ASN:ND2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dY:86:VAL:O	2:dY:202:GLN:N	2.37	0.54
1:ef:103:ARG:HB3	2:el:62:GLN:OE1	2.08	0.54
2:em:86:VAL:O	2:em:202:GLN:N	2.37	0.54
1:eo:60:ARG:HG2	1:nJ:99:LEU:CD2	2.37	0.54
2:ev:282:ARG:HH11	2:gD:282:ARG:NH2	1.93	0.54
2:ex:60:ILE:O	1:nI:105:THR:HG23	2.08	0.54
2:eA:117:LEU:HD21	2:eA:211:TYR:HA	1.90	0.54
1:eD:82:ASP:OD1	1:eD:83:GLY:N	2.41	0.54
2:fb:240:GLU:HA	2:fb:243:TYR:CE2	2.43	0.54
2:fc:117:LEU:HD21	2:fc:211:TYR:HA	1.90	0.54
1:ff:102:GLU:HB2	1:ib:99:LEU:CD2	2.33	0.54
2:fn:274:ALA:CB	2:fn:297:VAL:HG21	2.37	0.54
2:fE:117:LEU:HD21	2:fE:211:TYR:HA	1.90	0.54
1:fH:105:THR:HG23	2:my:60:ILE:O	2.08	0.54
1:fi:98:LEU:O	1:mp:102:GLU:CD	2.51	0.54
1:gn:103:ARG:HB3	2:gt:62:GLN:OE1	2.08	0.54
2:gs:18:LYS:HD3	2:gs:96:LEU:HD13	1.90	0.54
2:gt:188:MET:O	2:gt:188:MET:SD	2.65	0.54
2:gt:224:TRP:NE1	2:gt:242:VAL:HG21	2.23	0.54
1:gy:59:VAL:HG12	1:gy:61:ALA:H	1.73	0.54
2:gH:173:LEU:HD11	2:gH:219:VAL:HG13	1.90	0.54
1:gL:82:ASP:OD1	1:gL:83:GLY:N	2.41	0.54
2:gR:136:PHE:HZ	2:gR:173:LEU:HD22	1.72	0.54
2:gV:240:GLU:HA	2:gV:243:TYR:CE2	2.43	0.54
2:he:189:LYS:HB2	2:he:190:PRO:HD2	1.89	0.54
2:hF:187:ARG:NH2	2:hk:192:PHE:O	2.40	0.54
2:hF:205:MET:HE2	2:kC:63:ARG:HE	1.72	0.54
2:hG:163:ALA:HB3	2:hG:265:VAL:HG12	1.88	0.54
2:hG:174:ASP:OD1	2:hG:214:ARG:NH2	2.41	0.54
2:hG:224:TRP:NE1	2:hG:242:VAL:HG21	2.23	0.54
1:hn:105:THR:HG23	2:kS:60:ILE:O	2.08	0.54
1:hr:53:GLU:N	1:hr:53:GLU:OE1	2.41	0.54
2:hs:197:LYS:HZ2	1:ku:100:LYS:HD2	1.71	0.54
1:hZ:102:GLU:CD	1:kx:98:LEU:O	2.51	0.54
1:hE:103:ARG:HB3	2:hJ:62:GLN:OE1	2.08	0.54
2:hS:43:ALA:O	2:hS:44:SER:OG	2.20	0.54
2:hY:117:LEU:HD21	2:hY:211:TYR:HA	1.90	0.54
1:ip:99:LEU:CD2	1:pQ:102:GLU:HB2	2.33	0.54
2:iw:163:ALA:HB3	2:iw:265:VAL:HG12	1.88	0.54
2:iN:224:TRP:NE1	2:iN:242:VAL:HG21	2.23	0.54
2:iO:117:LEU:HD21	2:iO:211:TYR:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iQ:60:ARG:HG2	1:kk:99:LEU:CD2	2.37	0.54
2:iY:174:ASP:OD1	2:iY:214:ARG:NH2	2.41	0.54
2:jc:117:LEU:HD21	2:jc:211:TYR:HA	1.90	0.54
2:jm:192:PHE:CB	2:jm:195:MET:HE2	2.38	0.54
1:jx:53:GLU:N	1:jx:53:GLU:OE1	2.41	0.54
2:jD:224:TRP:NE1	2:jD:242:VAL:HG21	2.23	0.54
2:jO:192:PHE:CB	2:jO:195:MET:HE2	2.38	0.54
2:jQ:9:ILE:O	2:jQ:9:ILE:HG22	2.08	0.54
2:ka:117:LEU:HD21	2:ka:211:TYR:HA	1.88	0.54
1:kA:98:LEU:HD13	2:kC:64:VAL:HG22	1.87	0.54
2:kC:8:LEU:CD1	1:kW:83:GLY:HA3	2.37	0.54
2:kF:9:ILE:O	2:kF:9:ILE:HG22	2.08	0.54
2:kG:173:LEU:HD11	2:kG:219:VAL:HG13	1.90	0.54
1:kO:53:GLU:OE1	1:kO:53:GLU:N	2.41	0.54
2:kQ:187:ARG:NH2	2:kV:192:PHE:O	2.40	0.54
2:kT:18:LYS:HD3	2:kT:96:LEU:HD13	1.90	0.54
1:lm:105:THR:HG23	2:pY:60:ILE:O	2.08	0.54
1:lq:57:VAL:HG12	1:lq:59:VAL:HG13	1.88	0.54
2:lw:173:LEU:HD11	2:lw:219:VAL:HG13	1.90	0.54
1:lE:53:GLU:OE1	1:lE:53:GLU:N	2.41	0.54
2:lH:163:ALA:HB3	2:lH:265:VAL:HG12	1.88	0.54
2:lK:228:ALA:HB1	2:lK:283:LEU:HD11	1.89	0.54
2:lZ:237:VAL:O	2:lZ:241:LYS:HD3	2.07	0.54
1:mu:53:GLU:N	1:mu:53:GLU:OE1	2.41	0.54
2:mx:174:ASP:OD1	2:mx:214:ARG:NH2	2.41	0.54
2:mA:240:GLU:HA	2:mA:243:TYR:CE2	2.43	0.54
1:mF:99:LEU:CD2	1:nf:60:ARG:HG2	2.37	0.54
2:mL:224:TRP:NE1	2:mL:242:VAL:HG21	2.23	0.54
2:mM:274:ALA:CB	2:mM:297:VAL:HG21	2.37	0.54
1:mW:53:GLU:N	1:mW:53:GLU:OE1	2.41	0.54
2:mX:117:LEU:HD21	2:mX:211:TYR:HA	1.88	0.54
2:mX:186:GLU:N	2:mX:186:GLU:OE1	2.41	0.54
1:nk:53:GLU:N	1:nk:53:GLU:OE1	2.41	0.54
2:nn:174:ASP:OD1	2:nn:214:ARG:NH2	2.41	0.54
2:np:9:ILE:HG22	2:np:9:ILE:O	2.08	0.54
1:nv:59:VAL:HG12	1:nv:61:ALA:H	1.73	0.54
2:nE:188:MET:O	2:nE:188:MET:SD	2.65	0.54
1:nM:53:GLU:N	1:nM:53:GLU:OE1	2.41	0.54
1:nM:57:VAL:HG12	1:nM:59:VAL:HG13	1.88	0.54
2:nS:224:TRP:NE1	2:nS:242:VAL:HG21	2.23	0.54
2:ob:189:LYS:HB2	2:ob:190:PRO:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oC:103:ARG:HB3	2:oI:62:GLN:OE1	2.08	0.54
2:oD:189:LYS:HB2	2:oD:190:PRO:HD2	1.89	0.54
2:oI:228:ALA:HB1	2:oI:283:LEU:HD11	1.89	0.54
2:oW:188:MET:O	2:oW:188:MET:SD	2.65	0.54
2:pk:240:GLU:HA	2:pk:243:TYR:CE2	2.43	0.54
2:py:240:GLU:HA	2:py:243:TYR:CE2	2.43	0.54
2:pz:237:VAL:O	2:pz:241:LYS:HD3	2.08	0.54
1:pQ:82:ASP:OD1	1:pQ:83:GLY:N	2.41	0.54
2:qa:224:TRP:NE1	2:qa:242:VAL:HG21	2.23	0.54
3:qi:67:ARG:CB	4:qo:194:LEU:CD1	2.85	0.54
6:qq:39:ARG:HH22	6:qM:8:ASP:HB3	1.72	0.54
5:qx:53:GLU:CD	5:qz:35:HIS:CE1	2.80	0.54
6:qA:112:LEU:CB	6:qC:58:LEU:HD13	2.34	0.54
5:qL:304:THR:HG21	5:qL:326:VAL:HG21	1.90	0.54
2:ah:8:LEU:CD1	1:oY:83:GLY:HA3	2.37	0.54
2:au:186:GLU:OE1	2:au:186:GLU:N	2.41	0.54
2:ax:18:LYS:HD3	2:ax:96:LEU:HD13	1.90	0.54
2:ay:188:MET:O	2:ay:188:MET:SD	2.65	0.54
2:aI:132:ASP:OD2	2:aI:143:VAL:HG22	2.07	0.54
1:aQ:82:ASP:OD1	1:aQ:83:GLY:N	2.41	0.54
1:aQ:105:THR:HG23	2:jn:60:ILE:O	2.08	0.54
1:bd:60:ARG:HG2	1:iS:99:LEU:CD2	2.37	0.54
2:bl:224:TRP:NE1	2:bl:242:VAL:HG21	2.23	0.54
2:bp:117:LEU:HD21	2:bp:211:TYR:HA	1.90	0.54
1:bt:98:LEU:O	1:bS:102:GLU:CD	2.51	0.54
2:by:63:ARG:HE	2:dd:205:MET:HE2	1.72	0.54
2:by:205:MET:HE2	2:hT:63:ARG:HE	1.72	0.54
2:bB:18:LYS:HD3	2:bB:96:LEU:HD13	1.90	0.54
2:bC:224:TRP:NE1	2:bC:242:VAL:HG21	2.23	0.54
1:bE:86:SER:O	1:bE:90:LEU:N	2.38	0.54
1:bG:105:THR:HG23	2:gr:60:ILE:O	2.08	0.54
1:bH:99:LEU:CD2	1:gi:60:ARG:HG2	2.37	0.54
2:bL:186:GLU:N	2:bL:186:GLU:OE1	2.41	0.54
2:bO:9:ILE:HG22	2:bO:9:ILE:O	2.08	0.54
2:bY:43:ALA:O	2:bY:44:SER:OG	2.20	0.54
2:bZ:12:LEU:HD21	2:iO:14:THR:HG23	1.89	0.54
2:cd:228:ALA:HB1	2:cd:283:LEU:HD11	1.88	0.54
1:cf:86:SER:O	1:cf:90:LEU:N	2.38	0.54
1:cg:60:ARG:HG2	1:jg:99:LEU:CD2	2.37	0.54
1:cl:100:LYS:HZ1	1:iB:100:LYS:CD	2.21	0.54
2:cr:173:LEU:HD11	2:cr:219:VAL:HG13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cv:82:ASP:OD1	1:cv:83:GLY:N	2.41	0.54
1:cv:105:THR:HG23	2:pK:60:ILE:O	2.08	0.54
2:cA:189:LYS:HB2	2:cA:190:PRO:HD2	1.89	0.54
2:cC:174:ASP:OD1	2:cC:214:ARG:NH2	2.41	0.54
2:cC:224:TRP:NE1	2:cC:242:VAL:HG21	2.23	0.54
2:cF:224:TRP:NE1	2:cF:242:VAL:HG21	2.23	0.54
2:cF:228:ALA:HB1	2:cF:283:LEU:HD11	1.89	0.54
2:df:60:ILE:O	1:gx:105:THR:HG23	2.08	0.54
1:dD:99:LEU:HD21	1:fd:102:GLU:OE2	2.06	0.54
2:dE:186:GLU:N	2:dE:186:GLU:OE1	2.41	0.54
2:dF:63:ARG:HE	2:eX:205:MET:HE2	1.72	0.54
2:dI:18:LYS:HD3	2:dI:96:LEU:HD13	1.90	0.54
2:dJ:188:MET:O	2:dJ:188:MET:SD	2.65	0.54
2:dS:189:LYS:HB2	2:dS:190:PRO:HD2	1.89	0.54
2:dT:136:PHE:HZ	2:dT:173:LEU:HD22	1.72	0.54
2:dU:192:PHE:CB	2:dU:195:MET:HE2	2.38	0.54
1:ec:59:VAL:HG12	1:ec:61:ALA:H	1.73	0.54
2:eh:132:ASP:OD2	2:eh:143:VAL:HG22	2.07	0.54
2:em:14:THR:HG23	2:nA:12:LEU:HD21	1.89	0.54
2:em:165:ASP:HB3	2:em:173:LEU:HD13	1.88	0.54
1:en:83:GLY:HA3	2:nA:8:LEU:CD1	2.37	0.54
2:ew:224:TRP:NE1	2:ew:242:VAL:HG21	2.23	0.54
2:eJ:63:ARG:HE	2:gp:205:MET:HE2	1.72	0.54
2:eJ:132:ASP:OD2	2:eJ:143:VAL:HG22	2.07	0.54
2:eN:173:LEU:HD11	2:eN:219:VAL:HG13	1.90	0.54
1:eV:53:GLU:OE1	1:eV:53:GLU:N	2.41	0.54
1:eV:103:ARG:HB3	2:fb:62:GLN:OE1	2.08	0.54
2:eY:224:TRP:NE1	2:eY:242:VAL:HG21	2.23	0.54
1:fj:53:GLU:N	1:fj:53:GLU:OE1	2.41	0.54
2:fm:81:GLU:O	2:fo:57:ARG:N	2.39	0.54
2:fp:240:GLU:HA	2:fp:243:TYR:CE2	2.43	0.54
2:fz:132:ASP:OD2	2:fz:143:VAL:HG22	2.07	0.54
2:fA:15:SER:OG	2:fA:17:GLN:NE2	2.40	0.54
2:fC:18:LYS:HD3	2:fC:96:LEU:HD13	1.90	0.54
2:fD:224:TRP:NE1	2:fD:242:VAL:HG21	2.23	0.54
2:fD:240:GLU:HA	2:fD:243:TYR:CE2	2.43	0.54
2:fQ:18:LYS:HD3	2:fQ:96:LEU:HD13	1.90	0.54
1:fV:105:THR:HG23	2:nC:60:ILE:O	2.08	0.54
1:gk:98:LEU:O	1:gK:102:GLU:CD	2.50	0.54
2:gS:163:ALA:HB3	2:gS:265:VAL:HG12	1.88	0.54
2:gS:224:TRP:NE1	2:gS:242:VAL:HG21	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gX:83:GLY:HA3	2:ih:8:LEU:CD1	2.37	0.54
1:ha:59:VAL:HG12	1:ha:61:ALA:H	1.73	0.54
2:he:186:GLU:N	2:he:186:GLU:OE1	2.41	0.54
2:hf:132:ASP:OD2	2:hf:143:VAL:HG22	2.07	0.54
2:hf:136:PHE:HZ	2:hf:173:LEU:HD22	1.72	0.54
2:hj:228:ALA:HB1	2:hj:283:LEU:HD11	1.89	0.54
2:hs:186:GLU:N	2:hs:186:GLU:OE1	2.41	0.54
2:ht:224:TRP:NE1	2:ht:242:VAL:HG21	2.23	0.54
2:hw:188:MET:O	2:hw:188:MET:SD	2.65	0.54
2:hw:240:GLU:HA	2:hw:243:TYR:CE2	2.43	0.54
1:hD:82:ASP:OD1	1:hD:83:GLY:N	2.39	0.54
2:hH:63:ARG:HG2	2:kF:197:LYS:O	2.06	0.54
2:hI:9:ILE:HG22	2:hI:9:ILE:O	2.08	0.54
2:hI:197:LYS:O	2:IW:63:ARG:HG2	2.06	0.54
2:hK:117:LEU:HD21	2:hK:211:TYR:HA	1.90	0.54
1:hL:86:SER:O	1:hL:90:LEU:N	2.38	0.54
2:il:240:GLU:HA	2:il:243:TYR:CE2	2.43	0.54
1:io:102:GLU:CD	1:pR:98:LEU:O	2.51	0.54
1:ip:82:ASP:OD1	1:ip:83:GLY:N	2.41	0.54
1:it:99:LEU:HD21	1:jT:102:GLU:OE2	2.06	0.54
2:iw:192:PHE:CB	2:iw:195:MET:HE2	2.38	0.54
2:iI:117:LEU:HD21	2:iI:211:TYR:HA	1.88	0.54
2:iM:9:ILE:HG22	2:iM:9:ILE:O	2.08	0.54
1:iV:103:ARG:HB3	2:jb:62:GLN:OE1	2.08	0.54
2:jb:224:TRP:NE1	2:jb:242:VAL:HG21	2.23	0.54
2:jm:224:TRP:NE1	2:jm:242:VAL:HG21	2.23	0.54
2:jm:240:GLU:OE2	2:jm:291:ASN:ND2	2.40	0.54
1:js:60:ARG:HG2	1:mT:99:LEU:CD2	2.37	0.54
2:jA:192:PHE:CB	2:jA:195:MET:HE2	2.38	0.54
1:jH:82:ASP:OD1	1:jH:83:GLY:N	2.41	0.54
1:jH:105:THR:HG23	2:os:60:ILE:O	2.08	0.54
2:kf:224:TRP:NE1	2:kf:242:VAL:HG21	2.23	0.54
1:kj:82:ASP:OD1	1:kj:83:GLY:N	2.41	0.54
2:kt:103:MET:HE3	5:qD:56:ASN:HB2	1.89	0.54
1:kv:60:ARG:HG2	1:lP:99:LEU:CD2	2.37	0.54
2:kV:237:VAL:O	2:kV:241:LYS:HD3	2.08	0.54
1:kW:100:LYS:CD	1:mW:100:LYS:NZ	2.71	0.54
2:lf:224:TRP:NE1	2:lf:242:VAL:HG21	2.23	0.54
2:lg:60:ILE:O	1:oy:105:THR:HG23	2.08	0.54
2:lj:88:ARG:NH2	2:lj:200:ASP:OD1	2.40	0.54
2:ls:136:PHE:HZ	2:ls:173:LEU:HD22	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lt:192:PHE:CB	2:lt:195:MET:HE2	2.38	0.54
2:il:237:VAL:O	2:il:241:LYS:HD3	2.08	0.54
1:ls:57:VAL:HG12	1:ls:59:VAL:HG13	1.88	0.54
2:iy:224:TRP:NE1	2:iy:242:VAL:HG21	2.23	0.54
2:mn:117:LEU:HD21	2:mn:211:TYR:CA	2.36	0.54
2:mn:237:VAL:O	2:mn:241:LYS:HD3	2.08	0.54
2:mv:186:GLU:N	2:mv:186:GLU:OE1	2.41	0.54
2:mw:8:LEU:CD1	1:ok:83:GLY:HA3	2.37	0.54
2:my:196:THR:HG21	2:ol:192:PHE:CZ	2.42	0.54
2:nr:237:VAL:O	2:nr:241:LYS:HD3	2.08	0.54
1:ns:83:GLY:HA3	2:oe:8:LEU:CD1	2.37	0.54
2:nz:189:LYS:HB2	2:nz:190:PRO:HD2	1.89	0.54
1:nH:102:GLU:CD	1:pb:98:LEU:O	2.51	0.54
2:nS:188:MET:O	2:nS:188:MET:SD	2.65	0.54
2:nT:239:PHE:HE1	2:nT:294:LEU:HD22	1.69	0.54
2:od:192:PHE:CB	2:od:195:MET:HE2	2.38	0.54
2:od:224:TRP:NE1	2:od:242:VAL:HG21	2.23	0.54
2:og:228:ALA:HB1	2:og:283:LEU:HD11	1.89	0.54
1:oo:57:VAL:HG12	1:oo:59:VAL:HG13	1.89	0.54
2:or:174:ASP:OD1	2:or:214:ARG:NH2	2.41	0.54
2:ot:9:ILE:O	2:ot:9:ILE:HG22	2.08	0.54
2:ou:188:MET:O	2:ou:188:MET:SD	2.65	0.54
1:ow:83:GLY:HA3	2:pW:8:LEU:CD1	2.37	0.54
1:oc:57:VAL:HG12	1:oc:59:VAL:HG13	1.88	0.54
2:or:186:GLU:N	2:or:186:GLU:OE1	2.41	0.54
2:ot:174:ASP:OD1	2:ot:214:ARG:NH2	2.41	0.54
2:ou:274:ALA:CB	2:ou:297:VAL:HG21	2.37	0.54
1:pe:53:GLU:N	1:pe:53:GLU:OE1	2.41	0.54
2:ph:163:ALA:HB3	2:ph:265:VAL:HG12	1.88	0.54
2:ph:224:TRP:NE1	2:ph:242:VAL:HG21	2.23	0.54
2:pH:189:LYS:HB2	2:pH:190:PRO:HD2	1.89	0.54
2:pM:228:ALA:HB1	2:pM:283:LEU:HD11	1.89	0.54
2:pN:86:VAL:O	2:pN:202:GLN:N	2.37	0.54
3:qd:67:ARG:N	4:qn:8:TYR:HD2	2.05	0.54
3:qe:9:PHE:O	3:qf:95:ARG:NH2	2.41	0.54
3:qh:62:HIS:HE1	4:qj:224:THR:HB	1.71	0.54
3:qi:68:ALA:CB	4:qo:8:TYR:CZ	2.91	0.54
5:qt:304:THR:HG21	5:qt:326:VAL:HG21	1.90	0.54
5:qB:304:THR:CG2	5:qB:326:VAL:HG21	2.38	0.54
6:qG:17:LYS:HE3	6:qI:81:ILE:HG21	1.89	0.54
5:qH:304:THR:CG2	5:qH:326:VAL:HG21	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:qI:122:ALA:O	6:qI:126:GLN:NE2	2.40	0.54
2:ah:132:ASP:OD2	2:ah:143:VAL:HG22	2.07	0.54
2:ak:60:ILE:HG23	1:fw:105:THR:CG2	2.35	0.54
1:at:103:ARG:HB3	2:ay:62:GLN:OE1	2.08	0.54
2:ay:173:LEU:HD11	2:ay:219:VAL:HG13	1.90	0.54
2:ba:224:TRP:NE1	2:ba:242:VAL:HG21	2.23	0.54
2:ba:240:GLU:HA	2:ba:243:TYR:CE2	2.43	0.54
2:bj:186:GLU:OE1	2:bj:186:GLU:N	2.41	0.54
2:bk:132:ASP:OD2	2:bk:143:VAL:HG22	2.07	0.54
2:bl:192:PHE:CB	2:bl:195:MET:HE2	2.38	0.54
2:bo:228:ALA:HB1	2:bo:283:LEU:HD11	1.89	0.54
1:bs:105:THR:HG23	2:cb:60:ILE:O	2.08	0.54
1:bt:59:VAL:HG12	1:bt:61:ALA:H	1.73	0.54
2:bQ:117:LEU:HD21	2:bQ:211:TYR:HA	1.90	0.54
2:ca:163:ALA:HB3	2:ca:265:VAL:HG12	1.88	0.54
2:ca:224:TRP:NE1	2:ca:242:VAL:HG21	2.23	0.54
1:cl:53:GLU:OE1	1:cl:53:GLU:N	2.41	0.54
1:cl:100:LYS:NZ	1:iB:100:LYS:CD	2.71	0.54
2:cm:189:LYS:HB2	2:cm:190:PRO:HD2	1.89	0.54
2:cr:224:TRP:NE1	2:cr:242:VAL:HG21	2.23	0.54
2:cA:186:GLU:N	2:cA:186:GLU:OE1	2.41	0.54
1:cK:98:LEU:O	1:iC:102:GLU:CD	2.51	0.54
2:cO:186:GLU:N	2:cO:186:GLU:OE1	2.41	0.54
2:cQ:15:SER:OG	2:cQ:17:GLN:NE2	2.39	0.54
2:cQ:240:GLU:OE2	2:cQ:291:ASN:ND2	2.40	0.54
2:cR:63:ARG:HG2	2:px:197:LYS:O	2.07	0.54
2:dc:93:ASP:OD2	2:eO:209:TYR:OH	2.22	0.54
2:dg:9:ILE:HG22	2:dg:9:ILE:O	2.08	0.54
2:dh:224:TRP:NE1	2:dh:242:VAL:HG21	2.23	0.54
2:di:237:VAL:O	2:di:241:LYS:HD3	2.08	0.54
1:dA:99:LEU:CD2	1:gw:60:ARG:HG2	2.37	0.54
2:dG:163:ALA:HB3	2:dG:265:VAL:HG12	1.88	0.54
2:dT:187:ARG:NH2	2:dY:192:PHE:O	2.40	0.54
2:dU:174:ASP:OD1	2:dU:214:ARG:NH2	2.41	0.54
2:dV:196:THR:HG21	2:nS:192:PHE:CZ	2.42	0.54
2:dW:18:LYS:HD3	2:dW:96:LEU:HD13	1.90	0.54
2:dX:173:LEU:HD11	2:dX:219:VAL:HG13	1.90	0.54
2:ei:174:ASP:OD1	2:ei:214:ARG:NH2	2.41	0.54
2:el:173:LEU:HD11	2:el:219:VAL:HG13	1.90	0.54
1:eq:99:LEU:CD2	1:oZ:60:ARG:HG2	2.37	0.54
2:ev:187:ARG:NH2	2:eA:192:PHE:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ez:188:MET:O	2:ez:188:MET:SD	2.65	0.54
2:ez:240:GLU:HA	2:ez:243:TYR:CE2	2.43	0.54
1:eD:105:THR:HG23	2:fn:60:ILE:O	2.08	0.54
2:eJ:221:PHE:HD1	2:eJ:242:VAL:HG22	1.70	0.54
2:fb:188:MET:O	2:fb:188:MET:SD	2.65	0.54
1:fx:99:LEU:HD21	1:ns:102:GLU:OE2	2.06	0.54
2:fA:174:ASP:OD1	2:fA:214:ARG:NH2	2.41	0.54
2:fP:196:THR:HG21	2:gf:192:PHE:CZ	2.42	0.54
2:fQ:60:ILE:HG23	1:kz:105:THR:CG2	2.35	0.54
1:fT:83:GLY:HA3	2:lU:8:LEU:CD1	2.37	0.54
1:fZ:57:VAL:HG12	1:fZ:59:VAL:HG13	1.88	0.54
2:gq:224:TRP:NE1	2:gq:242:VAL:HG21	2.23	0.54
2:gs:9:ILE:HG22	2:gs:9:ILE:O	2.08	0.54
2:gS:240:GLU:OE2	2:gS:291:ASN:ND2	2.39	0.54
2:gU:9:ILE:HG22	2:gU:9:ILE:O	2.08	0.54
2:hj:240:GLU:HA	2:hj:243:TYR:CE2	2.43	0.54
2:hj:243:TYR:O	2:hj:247:ARG:HG2	2.07	0.54
2:hk:197:LYS:CE	1:kA:100:LYS:N	2.60	0.54
2:hs:106:MET:N	5:qB:178:PRO:HG3	2.22	0.54
2:hs:111:GLY:HA2	5:qB:176:ASN:ND2	2.23	0.54
2:hs:189:LYS:HB2	2:hs:190:PRO:HD2	1.89	0.54
2:hX:95:ASN:O	5:qz:47:ARG:HB2	2.08	0.54
1:hR:103:ARG:HB3	2:hX:62:GLN:OE1	2.08	0.54
2:hW:18:LYS:HD3	2:hW:96:LEU:HD13	1.90	0.54
2:il:224:TRP:NE1	2:il:242:VAL:HG21	2.23	0.54
2:iN:173:LEU:HD11	2:iN:219:VAL:HG13	1.90	0.54
2:jk:117:LEU:HD21	2:jk:211:TYR:HA	1.88	0.54
2:jl:8:LEU:CD1	1:ly:83:GLY:HA3	2.37	0.54
2:jp:240:GLU:HA	2:jp:243:TYR:CE2	2.43	0.54
1:jx:103:ARG:HB3	2:jD:62:GLN:OE1	2.08	0.54
2:jB:60:ILE:O	1:mS:105:THR:HG23	2.08	0.54
2:jR:173:LEU:HD11	2:jR:219:VAL:HG13	1.90	0.54
2:jR:224:TRP:NE1	2:jR:242:VAL:HG21	2.23	0.54
2:kc:174:ASP:OD1	2:kc:214:ARG:NH2	2.41	0.54
2:kp:240:GLU:OE2	2:kp:291:ASN:ND2	2.40	0.54
2:kr:18:LYS:HD3	2:kr:96:LEU:HD13	1.90	0.54
2:kt:239:PHE:HE1	2:kt:294:LEU:HD22	1.69	0.54
1:kX:60:ARG:HG2	1:oz:99:LEU:CD2	2.37	0.54
2:lf:174:ASP:OD1	2:lf:214:ARG:NH2	2.41	0.54
2:lt:174:ASP:OD1	2:lt:214:ARG:NH2	2.41	0.54
2:lv:18:LYS:HD3	2:lv:96:LEU:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lw:240:GLU:HA	2:lw:243:TYR:CE2	2.43	0.54
2:lx:117:LEU:HD21	2:lx:211:TYR:HA	1.90	0.54
2:IH:192:PHE:CB	2:IH:195:MET:HE2	2.38	0.54
2:IL:88:ARG:NH2	2:IL:200:ASP:OD1	2.40	0.54
1:mg:53:GLU:OE1	1:mg:53:GLU:N	2.41	0.54
2:mm:240:GLU:HA	2:mm:243:TYR:CE2	2.43	0.54
1:mu:57:VAL:HG12	1:mu:59:VAL:HG13	1.88	0.54
2:mx:192:PHE:CB	2:mx:195:MET:HE2	2.38	0.54
1:mH:82:ASP:OD1	1:mH:83:GLY:N	2.39	0.54
1:mI:99:LEU:HD21	1:ow:102:GLU:OE2	2.06	0.54
2:mO:188:MET:O	2:mO:188:MET:SD	2.65	0.54
2:mO:224:TRP:NE1	2:mO:242:VAL:HG21	2.23	0.54
2:mY:221:PHE:HD1	2:mY:242:VAL:HG22	1.70	0.54
2:nc:173:LEU:HD11	2:nc:219:VAL:HG13	1.90	0.54
1:nk:102:GLU:HA	2:oe:198:GLU:CG	2.35	0.54
2:nr:117:LEU:HD21	2:nr:211:TYR:HA	1.90	0.54
1:nI:82:ASP:OD1	1:nI:83:GLY:N	2.41	0.54
2:nT:36:THR:O	2:nT:175:THR:OG1	2.18	0.54
2:of:9:ILE:HG22	2:of:9:ILE:O	2.08	0.54
2:oh:237:VAL:O	2:oh:241:LYS:HD3	2.08	0.54
1:oz:59:VAL:HG12	1:oz:61:ALA:H	1.73	0.54
2:oJ:237:VAL:O	2:oJ:241:LYS:HD3	2.08	0.54
2:ow:224:TRP:NE1	2:ow:242:VAL:HG21	2.23	0.54
2:ph:192:PHE:CB	2:ph:195:MET:HE2	2.38	0.54
2:pv:192:PHE:CB	2:pv:195:MET:HE2	2.38	0.54
1:pU:53:GLU:N	1:pU:53:GLU:OE1	2.41	0.54
2:pZ:9:ILE:HG22	2:pZ:9:ILE:O	2.08	0.54
2:pZ:18:LYS:HD3	2:pZ:96:LEU:HD13	1.90	0.54
2:qb:237:VAL:O	2:qb:241:LYS:HD3	2.08	0.54
6:qs:8:ASP:HB3	6:qu:39:ARG:HH22	1.72	0.54
5:qt:304:THR:CG2	5:qt:326:VAL:HG21	2.38	0.54
5:qD:245:ASP:CG	6:qG:121:VAL:HG21	2.30	0.54
2:ah:221:PHE:HD1	2:ah:242:VAL:HG22	1.70	0.54
2:ai:15:SER:OG	2:ai:17:GLN:NE2	2.39	0.54
2:al:196:THR:HG23	2:fa:205:MET:SD	2.49	0.54
2:al:228:ALA:HB1	2:al:283:LEU:HD11	1.88	0.54
2:am:237:VAL:O	2:am:241:LYS:HD3	2.08	0.54
1:at:53:GLU:OE1	1:at:53:GLU:N	2.41	0.54
2:au:107:GLY:CA	5:qL:176:ASN:CG	2.80	0.54
2:aw:60:ILE:O	1:hN:105:THR:HG23	2.08	0.54
1:aB:104:CYS:HA	2:kV:62:GLN:OE1	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aO:100:LYS:CD	1:iV:100:LYS:NZ	2.71	0.54
1:aR:99:LEU:C	2:jm:197:LYS:HZ2	2.12	0.54
1:aU:53:GLU:OE1	1:aU:53:GLU:N	2.41	0.54
1:aU:103:ARG:HB3	2:ba:62:GLN:OE1	2.08	0.54
2:aZ:197:LYS:O	2:jn:63:ARG:HG2	2.07	0.54
2:bp:237:VAL:O	2:bp:241:LYS:HD3	2.08	0.54
2:bC:192:PHE:CZ	2:df:196:THR:HG21	2.42	0.54
2:bL:189:LYS:HB2	2:bL:190:PRO:HD2	1.89	0.54
2:bQ:62:GLN:OE1	1:gi:104:CYS:HA	2.06	0.54
2:bZ:187:ARG:NH2	2:ce:192:PHE:O	2.40	0.54
2:cd:240:GLU:HA	2:cd:243:TYR:CE2	2.43	0.54
2:cs:117:LEU:HD21	2:cs:211:TYR:HA	1.90	0.54
1:ct:83:GLY:HA3	2:iv:8:LEU:CD1	2.37	0.54
1:ct:100:LYS:CE	1:ps:100:LYS:HZ1	2.21	0.54
1:cH:83:GLY:HA3	2:pg:8:LEU:CD1	2.37	0.54
1:cH:100:LYS:CE	1:cN:100:LYS:HZ1	2.21	0.54
2:cT:173:LEU:HD11	2:cT:219:VAL:HG13	1.90	0.54
2:dc:189:LYS:HB2	2:dc:190:PRO:HD2	1.89	0.54
2:dh:173:LEU:HD11	2:dh:219:VAL:HG13	1.90	0.54
1:dm:98:LEU:O	1:hM:102:GLU:CD	2.51	0.54
2:dv:224:TRP:NE1	2:dv:242:VAL:HG21	2.23	0.54
1:dz:105:THR:HG23	2:gF:60:ILE:O	2.08	0.54
1:dD:53:GLU:N	1:dD:53:GLU:OE1	2.41	0.54
1:dD:57:VAL:HG12	1:dD:59:VAL:HG13	1.88	0.54
2:dS:186:GLU:OE1	2:dS:186:GLU:N	2.41	0.54
2:eh:136:PHE:HZ	2:eh:173:LEU:HD22	1.72	0.54
2:ei:12:LEU:HD21	2:fC:96:LEU:HD12	1.88	0.54
2:ei:224:TRP:NE1	2:ei:242:VAL:HG21	2.23	0.54
1:ep:105:THR:HG23	2:pi:60:ILE:O	2.08	0.54
1:et:53:GLU:N	1:et:53:GLU:OE1	2.41	0.54
2:ew:174:ASP:OD1	2:ew:214:ARG:NH2	2.41	0.54
2:ew:192:PHE:CB	2:ew:195:MET:HE2	2.38	0.54
2:eK:224:TRP:NE1	2:eK:242:VAL:HG21	2.23	0.54
1:eR:82:ASP:OD1	1:eR:83:GLY:N	2.41	0.54
2:eY:174:ASP:OD1	2:eY:214:ARG:NH2	2.41	0.54
2:fa:9:ILE:HG22	2:fa:9:ILE:O	2.08	0.54
2:fb:173:LEU:HD11	2:fb:219:VAL:HG13	1.90	0.54
2:fc:36:THR:O	2:fc:175:THR:OG1	2.18	0.54
1:fj:102:GLU:HA	2:gD:198:GLU:CG	2.35	0.54
2:fm:224:TRP:NE1	2:fm:242:VAL:HG21	2.23	0.54
1:fs:102:GLU:CD	1:nX:98:LEU:O	2.51	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fE:197:LYS:CE	1:mg:100:LYS:N	2.60	0.54
2:fQ:9:ILE:HG22	2:fQ:9:ILE:O	2.08	0.54
1:fU:60:ARG:HG2	1:md:99:LEU:CD2	2.37	0.54
2:gd:226:LEU:HD22	2:gd:270:LEU:HD22	1.90	0.54
2:gf:240:GLU:HA	2:gf:243:TYR:CE2	2.43	0.54
2:gg:237:VAL:O	2:gg:241:LYS:HD3	2.08	0.54
1:gk:59:VAL:HG12	1:gk:61:ALA:H	1.73	0.54
2:gp:187:ARG:NH2	2:gu:192:PHE:O	2.40	0.54
2:gH:171:TYR:OH	2:gH:175:THR:OG1	2.12	0.54
1:gP:100:LYS:HZ1	1:in:100:LYS:CE	2.21	0.54
2:gQ:13:LYS:NZ	2:ij:93:ASP:OD1	2.42	0.54
2:gS:174:ASP:OD1	2:gS:214:ARG:NH2	2.41	0.54
1:hl:100:LYS:CD	1:kA:100:LYS:NZ	2.71	0.54
2:hx:86:VAL:O	2:hx:202:GLN:N	2.37	0.54
2:hx:95:ASN:CA	5:qz:47:ARG:HH21	2.17	0.54
1:if:103:ARG:HB3	2:il:62:GLN:OE1	2.08	0.54
2:ii:174:ASP:OD1	2:ii:214:ARG:NH2	2.41	0.54
2:ii:192:PHE:CB	2:ii:195:MET:HE2	2.38	0.54
1:it:53:GLU:N	1:it:53:GLU:OE1	2.41	0.54
2:iu:186:GLU:N	2:iu:186:GLU:OE1	2.41	0.54
2:iw:224:TRP:NE1	2:iw:242:VAL:HG21	2.23	0.54
1:iD:82:ASP:OD1	1:iD:83:GLY:N	2.41	0.54
2:iX:187:ARG:NH2	2:jc:192:PHE:O	2.40	0.54
1:js:104:CYS:HA	2:nd:62:GLN:OE1	2.07	0.54
1:ju:59:VAL:HG12	1:ju:61:ALA:H	1.73	0.54
2:jA:224:TRP:NE1	2:jA:242:VAL:HG21	2.23	0.54
2:jC:107:GLY:HA2	2:jC:184:TYR:HE1	1.66	0.54
2:jD:173:LEU:HD11	2:jD:219:VAL:HG13	1.90	0.54
1:jG:102:GLU:CD	1:oN:98:LEU:O	2.51	0.54
1:jL:99:LEU:HD21	1:pO:102:GLU:OE2	2.06	0.54
2:jS:117:LEU:HD21	2:jS:211:TYR:HA	1.90	0.54
2:kg:237:VAL:O	2:kg:241:LYS:HD3	2.08	0.54
2:kp:192:PHE:CB	2:kp:195:MET:HE2	2.38	0.54
2:kq:226:LEU:HD22	2:kq:270:LEU:HD22	1.90	0.54
2:kt:237:VAL:O	2:kt:241:LYS:HD3	2.08	0.54
1:kw:99:LEU:CA	1:lO:102:GLU:OE1	2.28	0.54
2:kD:224:TRP:NE1	2:kD:242:VAL:HG21	2.23	0.54
2:kQ:8:LEU:CD1	1:ne:83:GLY:HA3	2.37	0.54
2:kS:274:ALA:CB	2:kS:297:VAL:HG21	2.37	0.54
2:kT:9:ILE:HG22	2:kT:9:ILE:O	2.08	0.54
2:kU:224:TRP:NE1	2:kU:242:VAL:HG21	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:kZ:99:LEU:CD2	1:lz:60:ARG:HG2	2.37	0.54
1:lc:100:LYS:HZ1	1:mQ:100:LYS:CE	2.20	0.54
2:lh:18:LYS:HD3	2:lh:96:LEU:HD13	1.90	0.54
1:lq:53:GLU:OE1	1:lq:53:GLU:N	2.41	0.54
2:lt:240:GLU:OE2	2:lt:291:ASN:ND2	2.40	0.54
2:lx:237:VAL:O	2:lx:241:LYS:HD3	2.08	0.54
2:ll:186:GLU:O	2:of:191:SER:OG	2.08	0.54
1:ls:103:ARG:HB3	2:ly:62:GLN:OE1	2.08	0.54
2:mk:60:ILE:O	1:nu:105:THR:HG23	2.08	0.54
2:mm:173:LEU:HD11	2:mm:219:VAL:HG13	1.90	0.54
2:mK:221:PHE:HD1	2:mK:242:VAL:HG22	1.70	0.54
2:mN:18:LYS:HD3	2:mN:96:LEU:HD13	1.90	0.54
1:mQ:83:GLY:HA3	2:oq:8:LEU:CD1	2.37	0.54
2:mZ:224:TRP:NE1	2:mZ:242:VAL:HG21	2.23	0.54
1:nk:99:LEU:HD21	1:ok:102:GLU:OE2	2.06	0.54
1:nk:100:LYS:N	2:oJ:197:LYS:CE	2.60	0.54
2:nq:173:LEU:HD11	2:nq:219:VAL:HG13	1.90	0.54
2:nq:240:GLU:HA	2:nq:243:TYR:CE2	2.43	0.54
2:nA:132:ASP:OD2	2:nA:143:VAL:HG22	2.07	0.54
2:nA:187:ARG:NH2	2:nF:192:PHE:O	2.40	0.54
2:nP:224:TRP:NE1	2:nP:242:VAL:HG21	2.23	0.54
1:ol:98:LEU:O	1:ol:102:GLU:CD	2.51	0.54
1:oo:100:LYS:N	2:qb:197:LYS:CE	2.60	0.54
1:oo:103:ARG:HB3	2:ou:62:GLN:OE1	2.08	0.54
2:or:224:TRP:NE1	2:or:242:VAL:HG21	2.23	0.54
2:or:189:LYS:HB2	2:or:190:PRO:HD2	1.89	0.54
2:ou:226:LEU:HD22	2:ou:270:LEU:HD22	1.91	0.54
2:ow:228:ALA:HB1	2:ow:283:LEU:HD11	1.89	0.54
1:pe:103:ARG:HB3	2:pk:62:GLN:OE1	2.08	0.54
2:px:18:LYS:HD3	2:px:96:LEU:HD13	1.90	0.54
1:pC:82:ASP:OD1	1:pC:83:GLY:N	2.41	0.54
2:pJ:240:GLU:OE2	2:pJ:291:ASN:ND2	2.40	0.54
2:pW:136:PHE:HZ	2:pW:173:LEU:HD22	1.72	0.54
2:qa:173:LEU:HD11	2:qa:219:VAL:HG13	1.90	0.54
3:qi:141:LEU:HD23	3:qi:143:PHE:HE2	1.73	0.54
5:qp:400:TYR:HE1	5:qL:392:LEU:HD12	1.58	0.54
5:qt:251:LEU:O	5:qt:255:VAL:HG23	2.06	0.54
6:qu:8:ASP:HB3	6:qw:39:ARG:HH22	1.72	0.54
6:qw:112:LEU:HD23	6:qy:58:LEU:CD1	1.02	0.54
5:qz:304:THR:CG2	5:qz:326:VAL:HG21	2.38	0.54
6:qA:17:LYS:HE3	6:qC:81:ILE:HG21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qB:53:GLU:CD	5:qD:35:HIS:CE1	2.80	0.54
5:qD:304:THR:CG2	5:qD:326:VAL:HG21	2.38	0.54
5:qJ:304:THR:HG21	5:qJ:326:VAL:HG21	1.90	0.54
6:qK:8:ASP:HB3	6:qM:39:ARG:HH22	1.72	0.54
1:af:53:GLU:N	1:af:53:GLU:OE1	2.41	0.53
2:ai:205:MET:SD	2:fd:196:THR:HG23	2.49	0.53
2:ay:224:TRP:NE1	2:ay:242:VAL:HG21	2.23	0.53
2:ay:243:TYR:O	2:ay:247:ARG:HG2	2.06	0.53
2:az:237:VAL:O	2:az:241:LYS:HD3	2.07	0.53
2:aJ:224:TRP:NE1	2:aJ:242:VAL:HG21	2.23	0.53
2:aM:197:LYS:HE3	2:nb:62:GLN:HG2	1.91	0.53
2:aW:187:ARG:NH2	2:bb:192:PHE:O	2.40	0.53
2:bj:189:LYS:HB2	2:bj:190:PRO:HD2	1.89	0.53
2:bk:8:LEU:CD1	1:dx:83:GLY:HA3	2.37	0.53
2:bk:12:LEU:HD21	2:dw:14:THR:HG23	1.89	0.53
2:by:12:LEU:HD21	2:hY:14:THR:HG23	1.89	0.53
2:bA:226:LEU:HD22	2:bA:270:LEU:HD22	1.91	0.53
2:bD:237:VAL:O	2:bD:241:LYS:HD3	2.07	0.53
2:bQ:237:VAL:O	2:bQ:241:LYS:HD3	2.08	0.53
1:bX:99:LEU:HD21	1:dx:102:GLU:OE2	2.06	0.53
2:bZ:8:LEU:CD1	1:iP:83:GLY:HA3	2.37	0.53
2:cd:173:LEU:HD11	2:cd:219:VAL:HG13	1.90	0.53
2:ce:117:LEU:HD21	2:ce:211:TYR:HA	1.90	0.53
2:cn:136:PHE:HZ	2:cn:173:LEU:HD22	1.72	0.53
2:cB:187:ARG:NH2	2:cG:192:PHE:O	2.40	0.53
2:cD:60:ILE:O	1:dN:105:THR:HG23	2.08	0.53
1:da:82:ASP:OD1	1:da:83:GLY:N	2.39	0.53
1:db:53:GLU:OE1	1:db:53:GLU:N	2.41	0.53
1:db:100:LYS:NZ	1:eP:100:LYS:CD	2.71	0.53
1:dl:105:THR:HG23	2:hV:60:ILE:O	2.08	0.53
2:dS:13:LYS:NZ	2:oU:93:ASP:OD1	2.42	0.53
2:dU:224:TRP:NE1	2:dU:242:VAL:HG21	2.23	0.53
2:dY:237:VAL:O	2:dY:241:LYS:HD3	2.08	0.53
1:ea:102:GLU:CD	1:fu:98:LEU:O	2.50	0.53
1:ec:99:LEU:CD2	1:nV:60:ARG:HG2	2.37	0.53
2:em:237:VAL:O	2:em:241:LYS:HD3	2.08	0.53
2:ey:18:LYS:HD3	2:ey:96:LEU:HD13	1.90	0.53
2:ez:196:THR:HG23	2:od:205:MET:SD	2.49	0.53
1:eC:102:GLU:CD	1:ic:98:LEU:O	2.50	0.53
1:eG:105:THR:CG2	2:gU:60:ILE:HG23	2.35	0.53
2:eN:240:GLU:HA	2:eN:243:TYR:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fn:226:LEU:HD22	2:fn:270:LEU:HD22	1.91	0.53
1:fx:53:GLU:OE1	1:fx:53:GLU:N	2.41	0.53
1:fl:59:VAL:HG12	1:fl:61:ALA:H	1.73	0.53
2:fo:192:PHE:CB	2:fo:195:MET:HE2	2.38	0.53
2:fp:226:LEU:HD22	2:fp:270:LEU:HD22	1.91	0.53
2:fr:240:GLU:HA	2:fr:243:TYR:CE2	2.43	0.53
1:fu:104:CYS:HA	2:mn:62:GLN:OE1	2.06	0.53
1:fz:103:ARG:HB3	2:gf:62:GLN:OE1	2.08	0.53
2:ga:186:GLU:OE1	2:ga:186:GLU:N	2.41	0.53
2:gb:136:PHE:HZ	2:gb:173:LEU:HD22	1.72	0.53
2:go:93:ASP:OD2	2:hY:209:TYR:OH	2.22	0.53
2:gq:192:PHE:CB	2:gq:195:MET:HE2	2.38	0.53
2:gr:226:LEU:HD22	2:gr:270:LEU:HD22	1.90	0.53
2:gs:96:LEU:HD12	2:gS:12:LEU:HD21	1.88	0.53
2:gt:240:GLU:HA	2:gt:243:TYR:CE2	2.43	0.53
2:gD:221:PHE:HD1	2:gD:242:VAL:HG22	1.70	0.53
2:gE:192:PHE:CB	2:gE:195:MET:HE2	2.38	0.53
2:gH:196:THR:HG23	2:ph:205:MET:SD	2.48	0.53
1:gJ:86:SER:O	1:gJ:90:LEU:N	2.38	0.53
2:gQ:93:ASP:OD2	2:im:209:TYR:OH	2.22	0.53
2:gV:173:LEU:HD11	2:gV:219:VAL:HG13	1.90	0.53
2:gW:237:VAL:O	2:gW:241:LYS:HD3	2.08	0.53
2:gW:239:PHE:HE1	2:gW:294:LEU:HD22	1.70	0.53
2:hF:8:LEU:CD1	1:kI:83:GLY:HA3	2.37	0.53
1:hl:83:GLY:HA3	2:lG:8:LEU:CD1	2.37	0.53
1:ho:98:LEU:O	1:kJ:102:GLU:CD	2.51	0.53
2:hv:9:ILE:HG22	2:hv:9:ILE:O	2.08	0.53
2:hw:228:ALA:HB1	2:hw:283:LEU:HD11	1.88	0.53
1:hA:105:THR:HG23	2:lW:60:ILE:O	2.08	0.53
2:hK:237:VAL:O	2:hK:241:LYS:HD3	2.08	0.53
1:ib:82:ASP:OD1	1:ib:83:GLY:N	2.41	0.53
2:ii:224:TRP:NE1	2:ii:242:VAL:HG21	2.23	0.53
2:iz:173:LEU:HD11	2:iz:219:VAL:HG13	1.90	0.53
1:iH:103:ARG:HB3	2:iN:62:GLN:OE1	2.08	0.53
2:iN:240:GLU:HA	2:iN:243:TYR:CE2	2.43	0.53
2:iY:5:THR:HG22	1:kj:87:ASP:CB	2.39	0.53
2:jb:240:GLU:HA	2:jb:243:TYR:CE2	2.43	0.53
2:jQ:117:LEU:HD21	2:jQ:211:TYR:HA	1.90	0.53
2:jQ:237:VAL:O	2:jQ:241:LYS:HD3	2.08	0.53
2:jz:8:LEU:CD1	1:qc:83:GLY:HA3	2.37	0.53
2:jB:226:LEU:HD22	2:jB:270:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jC:18:LYS:HD3	2:jC:96:LEU:HD13	1.90	0.53
1:jH:102:GLU:HB2	1:ok:99:LEU:CD2	2.33	0.53
1:jW:59:VAL:HG12	1:jW:61:ALA:H	1.73	0.53
1:jW:99:LEU:CD2	1:mR:60:ARG:HG2	2.37	0.53
2:ke:18:LYS:HD3	2:ke:96:LEU:HD13	1.90	0.53
1:kn:53:GLU:N	1:kn:53:GLU:OE1	2.41	0.53
2:ks:224:TRP:NE1	2:ks:242:VAL:HG21	2.23	0.53
1:kx:59:VAL:HG12	1:kx:61:ALA:H	1.73	0.53
2:kB:117:LEU:HD21	2:kB:211:TYR:HA	1.88	0.53
2:lg:226:LEU:HD22	2:lg:270:LEU:HD22	1.91	0.53
2:lu:274:ALA:CB	2:lu:297:VAL:HG21	2.37	0.53
1:lA:105:THR:HG23	2:oG:60:ILE:O	2.08	0.53
1:lB:59:VAL:HG12	1:lB:61:ALA:H	1.73	0.53
2:lH:174:ASP:OD1	2:lH:214:ARG:NH2	2.41	0.53
2:lH:224:TRP:NE1	2:lH:242:VAL:HG21	2.23	0.53
2:lJ:9:ILE:HG22	2:lJ:9:ILE:O	2.08	0.53
1:lP:59:VAL:HG12	1:lP:61:ALA:H	1.73	0.53
2:mi:205:MET:HE2	2:mw:63:ARG:HE	1.72	0.53
2:mz:9:ILE:HG22	2:mz:9:ILE:O	2.08	0.53
1:mC:102:GLU:OE2	1:oC:99:LEU:HD21	2.06	0.53
2:mJ:186:GLU:N	2:mJ:186:GLU:OE1	2.41	0.53
1:nh:59:VAL:HG12	1:nh:61:ALA:H	1.73	0.53
2:nl:13:LYS:NZ	2:oG:93:ASP:OD1	2.41	0.53
2:nE:228:ALA:HB1	2:nE:283:LEU:HD11	1.89	0.53
2:nE:240:GLU:HA	2:nE:243:TYR:CE2	2.43	0.53
2:nQ:226:LEU:HD22	2:nQ:270:LEU:HD22	1.90	0.53
2:nR:18:LYS:HD3	2:nR:96:LEU:HD13	1.90	0.53
2:nS:228:ALA:HB1	2:nS:283:LEU:HD11	1.88	0.53
2:nS:240:GLU:HA	2:nS:243:TYR:CE2	2.43	0.53
2:ot:18:LYS:HD3	2:ot:96:LEU:HD13	1.90	0.53
2:oF:224:TRP:NE1	2:oF:242:VAL:HG21	2.23	0.53
2:oI:240:GLU:HA	2:oI:243:TYR:CE2	2.43	0.53
1:oN:59:VAL:HG12	1:oN:61:ALA:H	1.73	0.53
2:oW:240:GLU:HA	2:oW:243:TYR:CE2	2.43	0.53
2:ph:174:ASP:OD1	2:ph:214:ARG:NH2	2.41	0.53
2:pw:226:LEU:HD22	2:pw:270:LEU:HD22	1.90	0.53
2:pJ:192:PHE:CB	2:pJ:195:MET:HE2	2.38	0.53
2:pY:226:LEU:HD22	2:pY:270:LEU:HD22	1.90	0.53
2:qa:240:GLU:HA	2:qa:243:TYR:CE2	2.43	0.53
3:qd:66:GLN:HA	4:qn:8:TYR:C	2.34	0.53
5:qx:304:THR:CG2	5:qx:326:VAL:HG21	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ai:174:ASP:OD1	2:ai:214:ARG:NH2	2.41	0.53
2:am:14:THR:HG23	2:oc:12:LEU:HD21	1.89	0.53
2:aw:196:THR:HG21	2:ks:192:PHE:CZ	2.42	0.53
2:ay:196:THR:HG23	2:gq:205:MET:SD	2.49	0.53
2:az:62:GLN:OE1	1:dk:104:CYS:HA	2.07	0.53
1:aA:100:LYS:HD2	2:ko:197:LYS:HZ2	1.71	0.53
1:aD:59:VAL:HG12	1:aD:61:ALA:H	1.73	0.53
1:aD:98:LEU:O	1:hm:102:GLU:CD	2.51	0.53
2:aJ:174:ASP:OD1	2:aJ:214:ARG:NH2	2.41	0.53
2:aN:197:LYS:CE	1:iV:100:LYS:N	2.60	0.53
1:aR:59:VAL:HG12	1:aR:61:ALA:H	1.73	0.53
2:bl:174:ASP:OD1	2:bl:214:ARG:NH2	2.41	0.53
2:bn:18:LYS:HD3	2:bn:96:LEU:HD13	1.90	0.53
1:bw:53:GLU:OE1	1:bw:53:GLU:N	2.41	0.53
2:bz:174:ASP:OD1	2:bz:214:ARG:NH2	2.41	0.53
2:bQ:94:ASP:N	5:qp:47:ARG:NE	2.55	0.53
2:cd:197:LYS:HE3	2:hW:62:GLN:HG2	1.91	0.53
2:cd:224:TRP:NE1	2:cd:242:VAL:HG21	2.23	0.53
2:co:240:GLU:OE2	2:co:291:ASN:ND2	2.40	0.53
2:cr:196:THR:HG23	2:lt:205:MET:SD	2.49	0.53
2:cD:226:LEU:HD22	2:cD:270:LEU:HD22	1.91	0.53
2:cE:18:LYS:HD3	2:cE:96:LEU:HD13	1.90	0.53
2:cF:240:GLU:HA	2:cF:243:TYR:CE2	2.43	0.53
2:cP:282:ARG:HH11	2:eX:282:ARG:NH2	1.93	0.53
2:cQ:192:PHE:CB	2:cQ:195:MET:HE2	2.38	0.53
2:cT:228:ALA:HB1	2:cT:283:LEU:HD11	1.89	0.53
1:db:103:ARG:HB3	2:dh:62:GLN:OE1	2.08	0.53
2:de:224:TRP:NE1	2:de:242:VAL:HG21	2.23	0.53
1:dm:59:VAL:HG12	1:dm:61:ALA:H	1.73	0.53
1:dp:53:GLU:N	1:dp:53:GLU:OE1	2.41	0.53
2:du:9:ILE:HG22	2:du:9:ILE:O	2.08	0.53
1:dz:102:GLU:HB2	1:gx:99:LEU:CD2	2.33	0.53
2:dG:174:ASP:OD1	2:dG:214:ARG:NH2	2.41	0.53
2:dX:224:TRP:NE1	2:dX:242:VAL:HG21	2.23	0.53
1:dZ:83:GLY:HA3	2:oS:8:LEU:CD1	2.37	0.53
1:ec:98:LEU:O	1:nV:102:GLU:CD	2.51	0.53
2:ei:191:SER:OG	2:fB:186:GLU:O	2.08	0.53
2:el:196:THR:HG23	2:mj:205:MET:SD	2.48	0.53
2:ew:5:THR:HG22	1:nI:87:ASP:CB	2.39	0.53
2:ey:9:ILE:O	2:ey:9:ILE:HG22	2.08	0.53
2:ez:197:LYS:HE3	2:of:62:GLN:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eH:57:VAL:HG12	1:eH:59:VAL:HG13	1.88	0.53
2:eM:18:LYS:HD3	2:eM:96:LEU:HD13	1.90	0.53
2:eY:205:MET:SD	2:iN:196:THR:HG23	2.48	0.53
2:fb:224:TRP:NE1	2:fb:242:VAL:HG21	2.23	0.53
1:fg:59:VAL:HG12	1:fg:61:ALA:H	1.73	0.53
2:fm:174:ASP:OD1	2:fm:214:ARG:NH2	2.41	0.53
2:fA:5:THR:HG22	1:nW:87:ASP:CB	2.39	0.53
1:fL:53:GLU:OE1	1:fL:53:GLU:N	2.41	0.53
2:fN:8:LEU:CD1	1:gh:83:GLY:HA3	2.37	0.53
1:fV:87:ASP:CB	2:nB:5:THR:HG22	2.39	0.53
1:fW:59:VAL:HG12	1:fW:61:ALA:H	1.73	0.53
2:gg:117:LEU:HD21	2:gg:211:TYR:HA	1.90	0.53
1:gh:100:LYS:HD2	2:ig:197:LYS:NZ	2.24	0.53
2:gt:173:LEU:HD11	2:gt:219:VAL:HG13	1.90	0.53
2:gE:174:ASP:OD1	2:gE:214:ARG:NH2	2.41	0.53
2:gR:44:SER:OG	2:gR:75:ILE:O	2.21	0.53
2:gS:192:PHE:CB	2:gS:195:MET:HE2	2.38	0.53
2:gT:226:LEU:HD22	2:gT:270:LEU:HD22	1.91	0.53
2:gW:171:TYR:OH	2:gW:216:ARG:NE	2.42	0.53
1:gY:102:GLU:CD	1:mr:98:LEU:O	2.51	0.53
2:hF:63:ARG:HE	2:IG:205:MET:HE2	1.72	0.53
2:hi:62:GLN:HG2	2:oi:197:LYS:HE3	1.91	0.53
1:hn:87:ASP:CB	2:kR:5:THR:HG22	2.39	0.53
2:hv:18:LYS:HD3	2:hv:96:LEU:HD13	1.90	0.53
2:hG:224:TRP:NE1	2:hG:242:VAL:HG21	2.23	0.53
2:hI:18:LYS:HD3	2:hI:96:LEU:HD13	1.90	0.53
2:hU:240:GLU:OE2	2:hU:291:ASN:ND2	2.40	0.53
2:ii:205:MET:SD	2:nE:196:THR:HG23	2.49	0.53
2:im:171:TYR:OH	2:im:216:ARG:NE	2.42	0.53
2:iw:174:ASP:OD1	2:iw:214:ARG:NH2	2.41	0.53
2:jC:237:VAL:O	2:jC:241:LYS:HD3	2.08	0.53
2:jo:107:GLY:HA2	2:jo:184:TYR:HE1	1.66	0.53
2:jP:173:LEU:HD11	2:jP:219:VAL:HG13	1.90	0.53
1:ju:98:LEU:O	1:jU:102:GLU:CD	2.51	0.53
2:jA:5:THR:HG22	1:mS:87:ASP:CB	2.39	0.53
1:jI:59:VAL:HG12	1:jI:61:ALA:H	1.73	0.53
1:jI:98:LEU:O	1:oj:102:GLU:CD	2.51	0.53
2:jM:186:GLU:OE1	2:jM:186:GLU:N	2.41	0.53
2:jQ:18:LYS:HD3	2:jQ:96:LEU:HD13	1.90	0.53
1:kA:53:GLU:N	1:kA:53:GLU:OE1	2.41	0.53
2:kD:174:ASP:OD1	2:kD:214:ARG:NH2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kG:224:TRP:NE1	2:kG:242:VAL:HG21	2.23	0.53
2:kP:186:GLU:N	2:kP:186:GLU:OE1	2.41	0.53
2:kS:226:LEU:HD22	2:kS:270:LEU:HD22	1.91	0.53
2:kU:240:GLU:HA	2:kU:243:TYR:CE2	2.43	0.53
2:li:173:LEU:HD11	2:li:219:VAL:HG13	1.90	0.53
2:ls:187:ARG:NH2	2:lx:192:PHE:O	2.40	0.53
2:lL:171:TYR:OH	2:lL:216:ARG:NE	2.42	0.53
2:lV:192:PHE:CB	2:lV:195:MET:HE2	2.38	0.53
2:lX:18:LYS:HD3	2:lX:96:LEU:HD13	1.90	0.53
2:lZ:171:TYR:OH	2:lZ:216:ARG:NE	2.42	0.53
1:mg:103:ARG:HB3	2:mm:62:GLN:OE1	2.08	0.53
2:mj:192:PHE:CB	2:mj:195:MET:HE2	2.38	0.53
2:mk:226:LEU:HD22	2:mk:270:LEU:HD22	1.91	0.53
1:mF:98:LEU:O	1:nf:102:GLU:CD	2.51	0.53
2:mJ:189:LYS:HB2	2:mJ:190:PRO:HD2	1.89	0.53
1:nk:57:VAL:HG12	1:nk:59:VAL:HG13	1.88	0.53
1:nk:100:LYS:NZ	1:oK:100:LYS:CD	2.71	0.53
2:nl:186:GLU:N	2:nl:186:GLU:OE1	2.41	0.53
2:nn:192:PHE:CB	2:nn:195:MET:HE2	2.38	0.53
2:no:226:LEU:HD22	2:no:270:LEU:HD22	1.91	0.53
2:nr:14:THR:HG23	2:oE:12:LEU:HD21	1.89	0.53
2:nF:237:VAL:O	2:nF:241:LYS:HD3	2.07	0.53
1:nZ:82:ASP:OD1	1:nZ:83:GLY:N	2.39	0.53
1:oa:103:ARG:HB3	2:og:62:GLN:OE1	2.08	0.53
2:ou:173:LEU:HD11	2:ou:219:VAL:HG13	1.90	0.53
2:oE:132:ASP:OD2	2:oE:143:VAL:HG22	2.07	0.53
2:pL:18:LYS:HD3	2:pL:96:LEU:HD13	1.90	0.53
2:pM:171:TYR:OH	2:pM:175:THR:OG1	2.12	0.53
2:pM:240:GLU:HA	2:pM:243:TYR:CE2	2.43	0.53
3:qh:66:GLN:C	4:qj:10:GLN:HG3	2.33	0.53
6:qu:112:LEU:CB	6:qw:58:LEU:HD13	2.34	0.53
6:qC:17:LYS:HE3	6:qE:81:ILE:HG21	1.89	0.53
6:qE:17:LYS:HE3	6:qG:81:ILE:HG21	1.89	0.53
6:qM:122:ALA:O	6:qM:126:GLN:NE2	2.40	0.53
1:ab:87:ASP:CB	2:mL:5:THR:HG22	2.39	0.53
2:ak:18:LYS:HD3	2:ak:96:LEU:HD13	1.90	0.53
2:au:13:LYS:NZ	2:bN:93:ASP:OD1	2.42	0.53
2:av:174:ASP:OD1	2:av:214:ARG:NH2	2.41	0.53
2:aw:226:LEU:HD22	2:aw:270:LEU:HD22	1.91	0.53
2:aJ:192:PHE:CB	2:aJ:195:MET:HE2	2.38	0.53
2:aN:237:VAL:O	2:aN:241:LYS:HD3	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aW:136:PHE:HZ	2:aW:173:LEU:HD22	1.72	0.53
2:aX:192:PHE:CB	2:aX:195:MET:HE2	2.38	0.53
2:bb:117:LEU:HD21	2:bb:211:TYR:HA	1.90	0.53
1:be:82:ASP:OD1	1:be:83:GLY:N	2.41	0.53
2:bl:5:THR:HG22	1:iR:87:ASP:CB	2.39	0.53
1:bw:57:VAL:HG12	1:bw:59:VAL:HG13	1.88	0.53
2:bx:117:LEU:HD21	2:bx:211:TYR:HA	1.88	0.53
2:bM:224:TRP:NE1	2:bM:242:VAL:HG21	2.23	0.53
2:bP:196:THR:HG23	2:IV:205:MET:SD	2.48	0.53
2:ce:237:VAL:O	2:ce:241:LYS:HD3	2.08	0.53
2:cP:12:LEU:HD21	2:fc:14:THR:HG23	1.89	0.53
1:cV:100:LYS:HD2	2:eW:197:LYS:NZ	2.24	0.53
1:cW:102:GLU:CD	1:gy:98:LEU:O	2.51	0.53
2:de:205:MET:SD	2:fp:196:THR:HG23	2.49	0.53
2:dg:18:LYS:HD3	2:dg:96:LEU:HD13	1.90	0.53
2:du:18:LYS:HD3	2:du:96:LEU:HD13	1.90	0.53
2:dG:192:PHE:CB	2:dG:195:MET:HE2	2.38	0.53
2:dG:224:TRP:NE1	2:dG:242:VAL:HG21	2.23	0.53
2:dX:196:THR:HG23	2:jO:205:MET:SD	2.49	0.53
2:em:197:LYS:CE	1:et:100:LYS:N	2.60	0.53
2:ev:8:LEU:CD1	1:gJ:83:GLY:HA3	2.37	0.53
1:eC:60:ARG:HG2	1:ic:99:LEU:CD2	2.37	0.53
1:eE:59:VAL:HG12	1:eE:61:ALA:H	1.73	0.53
2:eI:186:GLU:OE1	2:eI:186:GLU:N	2.41	0.53
2:fb:196:THR:HG23	2:iK:205:MET:SD	2.49	0.53
2:fy:13:LYS:NZ	2:no:93:ASP:OD1	2.41	0.53
2:fB:226:LEU:HD22	2:fB:270:LEU:HD22	1.91	0.53
2:fO:163:ALA:HB3	2:fO:265:VAL:HG12	1.88	0.53
2:fP:60:ILE:O	1:gZ:105:THR:HG23	2.08	0.53
2:gc:174:ASP:OD1	2:gc:214:ARG:NH2	2.41	0.53
2:ge:9:ILE:O	2:ge:9:ILE:HG22	2.08	0.53
1:gn:100:LYS:HZ1	1:hZ:100:LYS:CE	2.21	0.53
2:go:13:LYS:NZ	2:hV:93:ASP:OD1	2.41	0.53
2:go:189:LYS:HB2	2:go:190:PRO:HD2	1.89	0.53
2:gq:174:ASP:OD1	2:gq:214:ARG:NH2	2.41	0.53
2:gH:224:TRP:NE1	2:gH:242:VAL:HG21	2.23	0.53
2:gH:240:GLU:HA	2:gH:243:TYR:CE2	2.43	0.53
1:gM:59:VAL:HG12	1:gM:61:ALA:H	1.73	0.53
1:gO:82:ASP:OD1	1:gO:83:GLY:N	2.39	0.53
2:gQ:186:GLU:N	2:gQ:186:GLU:OE1	2.41	0.53
2:hg:192:PHE:CB	2:hg:195:MET:HE2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hx:237:VAL:O	2:hx:241:LYS:HD3	2.08	0.53
2:hG:205:MET:SD	2:kU:196:THR:HG23	2.49	0.53
2:iw:5:THR:HG22	1:pQ:87:ASP:CB	2.39	0.53
2:iw:197:LYS:HZ2	1:pR:99:LEU:CA	2.21	0.53
2:iy:62:GLN:HG2	2:ou:197:LYS:HE3	1.91	0.53
2:iz:197:LYS:HE3	2:ot:62:GLN:HG2	1.90	0.53
1:iH:53:GLU:N	1:iH:53:GLU:OE1	2.41	0.53
2:iK:81:GLU:O	2:iM:57:ARG:N	2.39	0.53
2:iX:205:MET:HE2	2:jl:63:ARG:HE	1.72	0.53
2:jE:171:TYR:OH	2:jE:216:ARG:NE	2.42	0.53
1:jL:53:GLU:N	1:jL:53:GLU:OE1	2.41	0.53
2:jR:240:GLU:HA	2:jR:243:TYR:CE2	2.43	0.53
1:jW:98:LEU:O	1:mR:102:GLU:CD	2.51	0.53
2:ks:240:GLU:HA	2:ks:243:TYR:CE2	2.43	0.53
1:kL:59:VAL:HG12	1:kL:61:ALA:H	1.73	0.53
2:kR:174:ASP:OD1	2:kR:214:ARG:NH2	2.41	0.53
2:lf:205:MET:SD	2:nq:196:THR:HG23	2.49	0.53
2:lh:60:ILE:HG23	1:nj:105:THR:CG2	2.35	0.53
2:lr:150:THR:OG1	2:lr:220:GLY:O	2.18	0.53
2:II:226:LEU:HD22	2:II:270:LEU:HD22	1.90	0.53
1:ma:86:SER:O	1:ma:90:LEU:N	2.38	0.53
1:mb:102:GLU:CD	1:nv:98:LEU:O	2.51	0.53
2:ml:18:LYS:HD3	2:ml:96:LEU:HD13	1.90	0.53
2:mm:224:TRP:NE1	2:mm:242:VAL:HG21	2.23	0.53
2:mB:171:TYR:OH	2:mB:216:ARG:NE	2.42	0.53
1:mC:100:LYS:HD2	2:oD:197:LYS:NZ	2.24	0.53
1:mE:87:ASP:CB	2:nn:5:THR:HG22	2.39	0.53
1:mE:105:THR:HG23	2:no:60:ILE:O	2.08	0.53
2:mP:86:VAL:O	2:mP:202:GLN:N	2.37	0.53
2:nc:224:TRP:NE1	2:nc:242:VAL:HG21	2.23	0.53
2:nc:240:GLU:HA	2:nc:243:TYR:CE2	2.43	0.53
1:ng:82:ASP:OD1	1:ng:83:GLY:N	2.41	0.53
2:nl:117:LEU:HD21	2:nl:211:TYR:HA	1.88	0.53
2:nn:224:TRP:NE1	2:nn:242:VAL:HG21	2.23	0.53
1:nI:99:LEU:CA	1:pa:102:GLU:OE1	2.28	0.53
2:nO:12:LEU:HD21	2:oh:14:THR:HG23	1.89	0.53
2:og:240:GLU:HA	2:og:243:TYR:CE2	2.43	0.53
1:ok:82:ASP:OD1	1:ok:83:GLY:N	2.41	0.53
2:oq:187:ARG:NH2	2:ov:192:PHE:O	2.40	0.53
2:ou:224:TRP:NE1	2:ou:242:VAL:HG21	2.23	0.53
2:ou:240:GLU:HA	2:ou:243:TYR:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ov:14:THR:HG23	2:pW:12:LEU:HD21	1.89	0.53
2:ov:171:TYR:OH	2:ov:216:ARG:NE	2.42	0.53
2:oF:192:PHE:CB	2:oF:195:MET:HE2	2.38	0.53
2:oI:224:TRP:NE1	2:oI:242:VAL:HG21	2.23	0.53
2:oV:18:LYS:HD3	2:oV:96:LEU:HD13	1.90	0.53
2:oW:173:LEU:HD11	2:oW:219:VAL:HG13	1.90	0.53
2:pf:186:GLU:OE1	2:pf:186:GLU:N	2.41	0.53
2:pk:224:TRP:NE1	2:pk:242:VAL:HG21	2.23	0.53
2:pz:221:PHE:CE2	2:pz:241:LYS:HE3	2.44	0.53
2:pI:187:ARG:NH2	2:pN:192:PHE:O	2.40	0.53
2:pJ:224:TRP:NE1	2:pJ:242:VAL:HG21	2.23	0.53
2:pX:224:TRP:NE1	2:pX:242:VAL:HG21	2.23	0.53
3:qf:67:ARG:HB3	4:ql:194:LEU:HD11	1.91	0.53
3:qh:63:GLN:O	4:qj:33:SER:O	2.26	0.53
4:qn:64:LYS:HZ2	4:qo:53:GLN:HG2	1.71	0.53
6:qC:112:LEU:HD21	6:qE:58:LEU:CD1	0.94	0.53
5:qF:229:ILE:HD13	5:qH:232:LEU:CD1	2.39	0.53
6:qK:112:LEU:HD23	6:qM:58:LEU:CD1	1.02	0.53
1:ae:82:ASP:OD1	1:ae:83:GLY:N	2.39	0.53
2:ag:189:LYS:HB2	2:ag:190:PRO:HD2	1.89	0.53
2:al:240:GLU:HA	2:al:243:TYR:CE2	2.43	0.53
2:am:62:GLN:OE1	1:mD:104:CYS:HA	2.07	0.53
1:ap:87:ASP:CB	2:ds:5:THR:HG22	2.39	0.53
2:av:5:THR:HG22	1:hN:87:ASP:CB	2.39	0.53
1:aA:100:LYS:HD2	2:ko:197:LYS:NZ	2.24	0.53
1:aG:53:GLU:N	1:aG:53:GLU:OE1	2.41	0.53
2:aI:12:LEU:HD21	2:jC:14:THR:HG23	1.89	0.53
2:aN:171:TYR:OH	2:aN:216:ARG:NE	2.42	0.53
2:bo:224:TRP:NE1	2:bo:242:VAL:HG21	2.23	0.53
2:bo:240:GLU:HA	2:bo:243:TYR:CE2	2.43	0.53
2:bB:9:ILE:O	2:bB:9:ILE:HG22	2.08	0.53
2:bO:18:LYS:HD3	2:bO:96:LEU:HD13	1.90	0.53
2:bQ:171:TYR:OH	2:bQ:216:ARG:NE	2.42	0.53
1:bU:98:LEU:O	1:eQ:102:GLU:CD	2.51	0.53
2:cm:43:ALA:O	2:cm:44:SER:OG	2.20	0.53
2:cm:186:GLU:N	2:cm:186:GLU:OE1	2.41	0.53
2:co:205:MET:SD	2:lw:196:THR:HG23	2.49	0.53
2:cC:5:THR:HG22	1:dN:87:ASP:CB	2.39	0.53
1:cJ:87:ASP:CB	2:iK:5:THR:HG22	2.39	0.53
2:cP:187:ARG:NH2	2:cU:192:PHE:O	2.40	0.53
2:cQ:205:MET:SD	2:pM:196:THR:HG23	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cX:87:ASP:CB	2:dG:5:THR:HG22	2.39	0.53
1:cY:98:LEU:O	1:dy:102:GLU:CD	2.51	0.53
2:dh:196:THR:HG23	2:fm:205:MET:SD	2.49	0.53
2:dh:240:GLU:HA	2:dh:243:TYR:CE2	2.43	0.53
1:dl:102:GLU:HB2	1:hN:99:LEU:CD2	2.33	0.53
2:ds:81:GLU:O	2:du:57:ARG:N	2.39	0.53
2:ds:205:MET:SD	2:ks:196:THR:HG23	2.49	0.53
2:dF:187:ARG:NH2	2:dK:192:PHE:O	2.40	0.53
2:dH:93:ASP:OD1	2:pf:13:LYS:NZ	2.42	0.53
2:dT:221:PHE:HD1	2:dT:242:VAL:HG22	1.70	0.53
2:eA:86:VAL:O	2:eA:202:GLN:N	2.37	0.53
2:eA:237:VAL:O	2:eA:241:LYS:HD3	2.08	0.53
1:eB:100:LYS:CD	1:gB:100:LYS:NZ	2.71	0.53
2:eW:186:GLU:OE1	2:eW:186:GLU:N	2.41	0.53
2:eY:192:PHE:CB	2:eY:195:MET:HE2	2.38	0.53
2:fc:221:PHE:CE2	2:fc:241:LYS:HE3	2.44	0.53
2:fl:8:LEU:CD1	1:nG:83:GLY:HA3	2.37	0.53
1:fu:59:VAL:HG12	1:fu:61:ALA:H	1.73	0.53
1:fx:57:VAL:HG12	1:fx:59:VAL:HG13	1.88	0.53
2:fz:184:TYR:HH	2:fz:204:PHE:HD1	1.53	0.53
2:fB:196:THR:HG21	2:mm:192:PHE:CZ	2.42	0.53
2:fQ:107:GLY:HA2	2:fQ:184:TYR:HE1	1.66	0.53
1:fW:98:LEU:O	1:nt:102:GLU:CD	2.51	0.53
2:gb:187:ARG:NH2	2:gg:192:PHE:O	2.40	0.53
2:gg:221:PHE:CE2	2:gg:241:LYS:HE3	2.44	0.53
1:gj:102:GLU:HB2	1:gL:99:LEU:CD2	2.33	0.53
2:go:186:GLU:N	2:go:186:GLU:OE1	2.41	0.53
2:gt:228:ALA:HB1	2:gt:283:LEU:HD11	1.89	0.53
1:gv:86:SER:O	1:gv:90:LEU:N	2.38	0.53
2:gE:205:MET:SD	2:pk:196:THR:HG23	2.49	0.53
2:gG:18:LYS:HD3	2:gG:96:LEU:HD13	1.90	0.53
1:gP:57:VAL:HG12	1:gP:59:VAL:HG13	1.88	0.53
2:gV:224:TRP:NE1	2:gV:242:VAL:HG21	2.23	0.53
2:hF:12:LEU:HD21	2:kH:14:THR:HG23	1.89	0.53
2:hj:224:TRP:NE1	2:hj:242:VAL:HG21	2.23	0.53
1:hl:100:LYS:HD2	2:kB:197:LYS:HZ2	1.73	0.53
1:ho:59:VAL:HG12	1:ho:61:ALA:H	1.73	0.53
2:hx:221:PHE:CE2	2:hx:241:LYS:HE3	2.44	0.53
1:hA:87:ASP:CB	2:IV:5:THR:HG22	2.39	0.53
2:hG:174:ASP:OD1	2:hG:214:ARG:NH2	2.41	0.53
2:hS:186:GLU:N	2:hS:186:GLU:OE1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hX:240:GLU:HA	2:hX:243:TYR:CE2	2.43	0.53
2:hY:221:PHE:CE2	2:hY:241:LYS:HE3	2.44	0.53
2:il:196:THR:HG23	2:nB:205:MET:SD	2.49	0.53
1:it:103:ARG:HB3	2:iz:62:GLN:OE1	2.08	0.53
2:iz:196:THR:HG23	2:or:205:MET:SD	2.49	0.53
2:iz:240:GLU:HA	2:iz:243:TYR:CE2	2.43	0.53
2:iM:18:LYS:HD3	2:iM:96:LEU:HD13	1.90	0.53
1:jr:100:LYS:HD2	2:lr:197:LYS:NZ	2.24	0.53
2:jC:60:ILE:CG2	1:lD:105:THR:HG21	2.38	0.53
2:jD:196:THR:HG23	2:lH:205:MET:SD	2.49	0.53
1:jF:83:GLY:HA3	2:le:8:LEU:CD1	2.37	0.53
1:jT:83:GLY:HA3	2:pI:8:LEU:CD1	2.37	0.53
2:kf:240:GLU:HA	2:kf:243:TYR:CE2	2.43	0.53
1:kk:59:VAL:HG12	1:kk:61:ALA:H	1.73	0.53
2:ks:173:LEU:HD11	2:ks:219:VAL:HG13	1.90	0.53
2:kt:103:MET:CE	5:qD:56:ASN:CA	2.87	0.53
2:kC:282:ARG:HH11	2:kQ:282:ARG:NH2	1.93	0.53
1:kX:102:GLU:CD	1:oz:98:LEU:O	2.51	0.53
1:kY:102:GLU:HB2	1:lA:99:LEU:CD2	2.33	0.53
1:kZ:59:VAL:HG12	1:kZ:61:ALA:H	1.73	0.53
2:ld:186:GLU:OE1	2:ld:186:GLU:N	2.41	0.53
2:lf:192:PHE:CB	2:lf:195:MET:HE2	2.38	0.53
2:lu:226:LEU:HD22	2:lu:270:LEU:HD22	1.91	0.53
2:lw:224:TRP:NE1	2:lw:242:VAL:HG21	2.23	0.53
2:lx:221:PHE:CE2	2:lx:241:LYS:HE3	2.44	0.53
2:lK:240:GLU:HA	2:lK:243:TYR:CE2	2.43	0.53
2:lL:221:PHE:CE2	2:lL:241:LYS:HE3	2.44	0.53
2:lV:174:ASP:OD1	2:lV:214:ARG:NH2	2.41	0.53
2:mj:174:ASP:OD1	2:mj:214:ARG:NH2	2.41	0.53
2:mk:93:ASP:OD1	2:mv:13:LYS:NZ	2.42	0.53
2:ml:9:ILE:HG22	2:ml:9:ILE:O	2.08	0.53
2:my:226:LEU:HD22	2:my:270:LEU:HD22	1.90	0.53
2:nB:174:ASP:OD1	2:nB:214:ARG:NH2	2.41	0.53
2:nT:221:PHE:CE2	2:nT:241:LYS:HE3	2.44	0.53
2:ov:237:VAL:O	2:ov:241:LYS:HD3	2.08	0.53
2:oH:18:LYS:HD3	2:oH:96:LEU:HD13	1.90	0.53
2:oT:192:PHE:CB	2:oT:195:MET:HE2	2.38	0.53
1:ps:53:GLU:OE1	1:ps:53:GLU:N	2.41	0.53
2:pN:221:PHE:CE2	2:pN:241:LYS:HE3	2.44	0.53
2:pN:237:VAL:O	2:pN:241:LYS:HD3	2.08	0.53
1:pU:103:ARG:HB3	2:qa:62:GLN:OE1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:qb:221:PHE:CE2	2:qb:241:LYS:HE3	2.44	0.53
3:qf:66:GLN:CA	4:ql:194:LEU:HD12	2.32	0.53
3:qh:19:ARG:NH1	3:qi:135:GLY:O	2.41	0.53
3:qh:66:GLN:CA	4:qj:8:TYR:CD2	2.90	0.53
3:qi:67:ARG:N	4:qo:8:TYR:HD2	2.06	0.53
5:qp:232:LEU:CD1	5:qL:229:ILE:HD13	2.39	0.53
5:qv:304:THR:HG21	5:qv:326:VAL:HG21	1.90	0.53
5:qF:304:THR:CG2	5:qF:326:VAL:HG21	2.38	0.53
2:aI:187:ARG:NH2	2:aN:192:PHE:O	2.40	0.53
2:aM:224:TRP:NE1	2:aM:242:VAL:HG21	2.23	0.53
1:aO:100:LYS:CE	1:iV:100:LYS:HZ1	2.20	0.53
2:aX:174:ASP:OD1	2:aX:214:ARG:NH2	2.41	0.53
1:bf:59:VAL:HG12	1:bf:61:ALA:H	1.73	0.53
2:bk:205:MET:HE2	2:dr:63:ARG:HE	1.72	0.53
2:bx:186:GLU:N	2:bx:186:GLU:OE1	2.41	0.53
2:bM:5:THR:HG22	1:gL:87:ASP:CB	2.39	0.53
2:bM:192:PHE:CB	2:bM:195:MET:HE2	2.38	0.53
2:bM:205:MET:SD	2:IY:196:THR:HG23	2.49	0.53
2:bN:226:LEU:HD22	2:bN:270:LEU:HD22	1.91	0.53
1:bT:82:ASP:OD1	1:bT:83:GLY:N	2.41	0.53
1:ci:59:VAL:HG12	1:ci:61:ALA:H	1.73	0.53
2:co:5:THR:HG22	1:jf:87:ASP:CB	2.39	0.53
1:cz:100:LYS:NZ	1:pm:100:LYS:CD	2.71	0.53
2:cC:205:MET:SD	2:nS:196:THR:HG23	2.49	0.53
2:cQ:224:TRP:NE1	2:cQ:242:VAL:HG21	2.23	0.53
2:cS:9:ILE:HG22	2:cS:9:ILE:O	2.08	0.53
2:cU:117:LEU:HD21	2:cU:211:TYR:HA	1.90	0.53
2:de:5:THR:HG22	1:gx:87:ASP:CB	2.39	0.53
1:dl:82:ASP:OD1	1:dl:83:GLY:N	2.41	0.53
2:dq:186:GLU:N	2:dq:186:GLU:OE1	2.41	0.53
2:ds:224:TRP:NE1	2:ds:242:VAL:HG21	2.23	0.53
1:dz:87:ASP:CB	2:gE:5:THR:HG22	2.39	0.53
2:dK:117:LEU:HD21	2:dK:211:TYR:HA	1.90	0.53
2:dV:226:LEU:HD22	2:dV:270:LEU:HD22	1.91	0.53
2:dW:9:ILE:O	2:dW:9:ILE:HG22	2.08	0.53
2:dX:197:LYS:HZ1	2:jQ:62:GLN:HE21	1.55	0.53
2:dY:221:PHE:CE2	2:dY:241:LYS:HE3	2.44	0.53
1:ea:60:ARG:HG2	1:fu:99:LEU:CD2	2.37	0.53
1:eb:105:THR:HG23	2:oe:60:ILE:O	2.08	0.53
2:eh:187:ARG:NH2	2:em:192:PHE:O	2.40	0.53
2:ej:60:ILE:O	1:ft:105:THR:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:en:100:LYS:HD2	2:eu:197:LYS:NZ	2.24	0.53
2:ew:81:GLU:O	2:ey:57:ARG:N	2.39	0.53
2:eA:221:PHE:CE2	2:eA:241:LYS:HE3	2.44	0.53
2:eJ:58:GLU:OE1	2:gp:78:LYS:NZ	2.27	0.53
2:fp:173:LEU:HD11	2:fp:219:VAL:HG13	1.90	0.53
2:fq:117:LEU:HD21	2:fq:211:TYR:HA	1.90	0.53
2:fq:221:PHE:CE2	2:fq:241:LYS:HE3	2.44	0.53
2:fq:239:PHE:HE1	2:fq:294:LEU:HD22	1.70	0.53
1:fr:100:LYS:HD2	2:nz:197:LYS:NZ	2.24	0.53
2:fy:197:LYS:NZ	1:ns:100:LYS:HD2	2.24	0.53
2:fz:187:ARG:NH2	2:fE:192:PHE:O	2.40	0.53
1:fH:87:ASP:CB	2:mx:5:THR:HG22	2.39	0.53
1:fH:102:GLU:HB2	1:mq:99:LEU:CD2	2.33	0.53
1:fL:57:VAL:HG12	1:fL:59:VAL:HG13	1.88	0.53
2:fP:93:ASP:OD1	2:ga:13:LYS:NZ	2.42	0.53
2:fr:173:LEU:HD11	2:fr:219:VAL:HG13	1.90	0.53
2:fS:62:GLN:OE1	1:mp:104:CYS:HA	2.06	0.53
2:gd:196:THR:HG21	2:il:192:PHE:CZ	2.42	0.53
1:gB:103:ARG:HB3	2:gH:62:GLN:OE1	2.08	0.53
2:gC:117:LEU:HD21	2:gC:211:TYR:HA	1.88	0.53
2:gI:221:PHE:CE2	2:gI:241:LYS:HE3	2.44	0.53
2:gU:18:LYS:HD3	2:gU:96:LEU:HD13	1.90	0.53
1:hd:103:ARG:HB3	2:hj:62:GLN:OE1	2.08	0.53
2:he:43:ALA:O	2:he:44:SER:OG	2.20	0.53
2:hi:18:LYS:HD3	2:hi:96:LEU:HD13	1.90	0.53
2:hj:173:LEU:HD11	2:hj:219:VAL:HG13	1.90	0.53
2:hk:171:TYR:OH	2:hk:216:ARG:NE	2.42	0.53
2:hk:221:PHE:CE2	2:hk:241:LYS:HE3	2.44	0.53
2:hs:197:LYS:NZ	1:ku:100:LYS:HD2	2.24	0.53
2:hI:60:ILE:HG23	1:kN:105:THR:CG2	2.35	0.53
2:hT:187:ARG:NH2	2:hY:192:PHE:O	2.40	0.53
2:im:221:PHE:CE2	2:im:241:LYS:HE3	2.44	0.53
2:iK:192:PHE:CB	2:iK:195:MET:HE2	2.38	0.53
2:iL:226:LEU:HD22	2:iL:270:LEU:HD22	1.90	0.53
2:iZ:196:THR:HG21	2:jp:192:PHE:CZ	2.42	0.53
2:ja:18:LYS:HD3	2:ja:96:LEU:HD13	1.90	0.53
1:js:102:GLU:CD	1:mT:98:LEU:O	2.51	0.53
1:jw:105:THR:CG2	2:IJ:60:ILE:HG23	2.35	0.53
2:jy:186:GLU:OE1	2:jy:186:GLU:N	2.41	0.53
2:jD:240:GLU:HA	2:jD:243:TYR:CE2	2.43	0.53
2:jE:117:LEU:HD21	2:jE:211:TYR:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kf:196:THR:HG23	2:pX:205:MET:SD	2.49	0.53
2:kp:81:GLU:O	2:kr:57:ARG:N	2.39	0.53
2:kH:36:THR:O	2:kH:175:THR:OG1	2.18	0.53
2:kH:221:PHE:CE2	2:kH:241:LYS:HE3	2.44	0.53
2:kH:237:VAL:O	2:kH:241:LYS:HD3	2.08	0.53
2:lh:60:ILE:CG2	1:nj:105:THR:HG21	2.39	0.53
2:lh:62:GLN:HG2	2:nq:197:LYS:HE3	1.91	0.53
2:li:171:TYR:OH	2:li:175:THR:OG1	2.12	0.53
2:lt:224:TRP:NE1	2:lt:242:VAL:HG21	2.23	0.53
1:lB:98:LEU:O	1:ox:102:GLU:CD	2.51	0.53
2:lJ:18:LYS:HD3	2:lJ:96:LEU:HD13	1.90	0.53
2:lK:173:LEU:HD11	2:lK:219:VAL:HG13	1.90	0.53
2:mv:43:ALA:O	2:mv:44:SER:OG	2.20	0.53
2:mw:136:PHE:HZ	2:mw:173:LEU:HD22	1.72	0.53
2:mB:117:LEU:HD21	2:mB:211:TYR:HA	1.90	0.53
1:mI:100:LYS:NZ	1:ow:100:LYS:CD	2.71	0.53
2:mO:196:THR:HG23	2:oT:205:MET:SD	2.49	0.53
2:mO:240:GLU:HA	2:mO:243:TYR:CE2	2.43	0.53
1:mT:59:VAL:HG12	1:mT:61:ALA:H	1.73	0.53
2:na:226:LEU:HD22	2:na:270:LEU:HD22	1.90	0.53
2:np:18:LYS:HD3	2:np:96:LEU:HD13	1.90	0.53
2:nD:9:ILE:HG22	2:nD:9:ILE:O	2.08	0.53
2:nF:221:PHE:CE2	2:nF:241:LYS:HE3	2.44	0.53
2:op:186:GLU:OE1	2:op:186:GLU:N	2.41	0.53
2:op:197:LYS:NZ	1:qc:100:LYS:HD2	2.24	0.53
2:oX:221:PHE:CE2	2:oX:241:LYS:HE3	2.44	0.53
2:oX:237:VAL:O	2:oX:241:LYS:HD3	2.08	0.53
1:pd:82:ASP:OD1	1:pd:83:GLY:N	2.39	0.53
1:pp:59:VAL:HG12	1:pp:61:ALA:H	1.73	0.53
2:pw:196:THR:HG21	2:pM:192:PHE:CZ	2.42	0.53
2:py:173:LEU:HD11	2:py:219:VAL:HG13	1.90	0.53
1:pA:102:GLU:OE2	1:pG:99:LEU:HD21	2.06	0.53
2:pN:36:THR:O	2:pN:175:THR:OG1	2.18	0.53
3:qh:66:GLN:C	4:qj:10:GLN:CG	2.82	0.53
4:qj:50:TYR:OH	4:qo:238:THR:CG2	2.52	0.53
5:qp:304:THR:HG21	5:qp:326:VAL:HG21	1.90	0.53
5:qB:229:ILE:HD13	5:qD:232:LEU:CD1	2.39	0.53
5:qH:53:GLU:CD	5:qJ:35:HIS:CE1	2.80	0.53
6:qI:8:ASP:HB3	6:qK:39:ARG:HH22	1.72	0.53
1:af:99:LEU:HD21	1:oi:102:GLU:OE2	2.06	0.53
2:ah:187:ARG:NH2	2:am:192:PHE:O	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ai:192:PHE:CB	2:ai:195:MET:HE2	2.38	0.53
1:ap:105:THR:HG23	2:dt:60:ILE:O	2.08	0.53
2:au:184:TYR:CD2	5:qL:176:ASN:HA	2.42	0.53
2:av:192:PHE:CB	2:av:195:MET:HE2	2.38	0.53
2:ay:240:GLU:HA	2:ay:243:TYR:CE2	2.43	0.53
1:aC:87:ASP:CB	2:ht:5:THR:HG22	2.39	0.53
1:aU:99:LEU:HG	1:iP:102:GLU:OE2	1.74	0.53
2:aZ:9:ILE:HG22	2:aZ:9:ILE:O	2.08	0.53
2:bb:221:PHE:CE2	2:bb:241:LYS:HE3	2.44	0.53
1:bi:53:GLU:N	1:bi:53:GLU:OE1	2.41	0.53
2:bp:221:PHE:CE2	2:bp:241:LYS:HE3	2.44	0.53
2:bx:13:LYS:NZ	2:df:93:ASP:OD1	2.42	0.53
1:bE:100:LYS:HD2	2:hS:197:LYS:NZ	2.24	0.53
2:bP:173:LEU:HD11	2:bP:219:VAL:HG13	1.90	0.53
2:co:192:PHE:CB	2:co:195:MET:HE2	2.38	0.53
2:co:224:TRP:NE1	2:co:242:VAL:HG21	2.23	0.53
2:cp:226:LEU:HD22	2:cp:270:LEU:HD22	1.91	0.53
2:cq:18:LYS:HD3	2:cq:96:LEU:HD13	1.90	0.53
1:cv:87:ASP:CB	2:pJ:5:THR:HG22	2.39	0.53
2:cC:192:PHE:CB	2:cC:195:MET:HE2	2.38	0.53
2:cE:62:GLN:HG2	2:nS:197:LYS:HE3	1.91	0.53
2:cQ:5:THR:HG22	1:po:87:ASP:CB	2.39	0.53
1:cV:86:SER:O	1:cV:90:LEU:N	2.38	0.53
2:de:192:PHE:CB	2:de:195:MET:HE2	2.38	0.53
2:df:226:LEU:HD22	2:df:270:LEU:HD22	1.91	0.53
2:dg:62:GLN:HG2	2:fp:197:LYS:HE3	1.91	0.53
2:di:221:PHE:CE2	2:di:241:LYS:HE3	2.44	0.53
2:ds:174:ASP:OD1	2:ds:214:ARG:NH2	2.41	0.53
2:dE:13:LYS:NZ	2:eZ:93:ASP:OD1	2.42	0.53
2:dY:117:LEU:HD21	2:dY:211:TYR:HA	1.90	0.53
1:eb:87:ASP:CB	2:od:5:THR:HG22	2.39	0.53
2:ei:205:MET:SD	2:mm:196:THR:HG23	2.49	0.53
2:el:192:PHE:CZ	2:nC:196:THR:HG21	2.42	0.53
2:el:240:GLU:HA	2:el:243:TYR:CE2	2.43	0.53
2:ev:205:MET:HE2	2:gD:63:ARG:HE	1.72	0.53
1:eE:99:LEU:CD2	1:fe:60:ARG:HG2	2.37	0.53
2:eI:43:ALA:O	2:eI:44:SER:OG	2.20	0.53
2:eL:226:LEU:HD22	2:eL:270:LEU:HD22	1.90	0.53
2:eN:224:TRP:NE1	2:eN:242:VAL:HG21	2.23	0.53
2:eZ:226:LEU:HD22	2:eZ:270:LEU:HD22	1.91	0.53
1:fj:103:ARG:HB3	2:fp:62:GLN:OE1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fz:205:MET:HE2	2:mi:63:ARG:HE	1.72	0.53
1:fG:60:ARG:HG2	1:ha:99:LEU:CD2	2.37	0.53
1:fG:102:GLU:CD	1:ha:98:LEU:O	2.51	0.53
2:fS:221:PHE:CE2	2:fS:241:LYS:HE3	2.44	0.53
2:gf:224:TRP:NE1	2:gf:242:VAL:HG21	2.23	0.53
1:gj:87:ASP:CB	2:gS:5:THR:HG22	2.39	0.53
1:gj:105:THR:HG23	2:gT:60:ILE:O	2.08	0.53
2:gu:14:THR:HG23	2:hT:12:LEU:HD21	1.89	0.53
2:gE:224:TRP:NE1	2:gE:242:VAL:HG21	2.23	0.53
2:gF:226:LEU:HD22	2:gF:270:LEU:HD22	1.91	0.53
1:gP:100:LYS:NZ	1:in:100:LYS:CD	2.71	0.53
2:gQ:197:LYS:NZ	1:in:100:LYS:HD2	2.24	0.53
2:hj:196:THR:HG23	2:oF:205:MET:SD	2.49	0.53
2:hs:93:ASP:OD2	2:kt:209:TYR:OH	2.22	0.53
2:hs:104:GLN:NE2	5:qB:178:PRO:C	2.67	0.53
2:hs:111:GLY:CA	5:qB:176:ASN:CG	2.82	0.53
2:ht:174:ASP:OD1	2:ht:214:ARG:NH2	2.41	0.53
2:hu:226:LEU:HD22	2:hu:270:LEU:HD22	1.91	0.53
2:hw:197:LYS:HE3	2:ja:62:GLN:HG2	1.91	0.53
2:hx:117:LEU:HD21	2:hx:211:TYR:HA	1.90	0.53
2:hF:150:THR:OG1	2:hF:220:GLY:O	2.18	0.53
2:ij:226:LEU:HD22	2:ij:270:LEU:HD22	1.91	0.53
1:ip:87:ASP:CB	2:lt:5:THR:HG22	2.39	0.53
2:ix:60:ILE:O	1:pQ:105:THR:HG23	2.08	0.53
2:iz:224:TRP:NE1	2:iz:242:VAL:HG21	2.23	0.53
2:iA:171:TYR:OH	2:iA:216:ARG:NE	2.42	0.53
1:iD:87:ASP:CB	2:pv:5:THR:HG22	2.39	0.53
2:iO:221:PHE:CE2	2:iO:241:LYS:HE3	2.44	0.53
2:iO:237:VAL:O	2:iO:241:LYS:HD3	2.08	0.53
2:jk:186:GLU:N	2:jk:186:GLU:OE1	2.41	0.53
2:jo:9:ILE:O	2:jo:9:ILE:HG22	2.08	0.53
2:jo:18:LYS:HD3	2:jo:96:LEU:HD13	1.90	0.53
1:jx:100:LYS:HZ1	1:lk:100:LYS:CE	2.20	0.53
2:jA:174:ASP:OD1	2:jA:214:ARG:NH2	2.41	0.53
2:jO:5:THR:HG22	1:oM:87:ASP:CB	2.39	0.53
2:jO:174:ASP:OD1	2:jO:214:ARG:NH2	2.41	0.53
2:jS:14:THR:HG23	2:pI:12:LEU:HD21	1.89	0.53
1:jV:87:ASP:CB	2:mZ:5:THR:HG22	2.39	0.53
2:kc:205:MET:SD	2:qa:196:THR:HG23	2.49	0.53
2:kc:224:TRP:NE1	2:kc:242:VAL:HG21	2.23	0.53
2:ko:184:TYR:HE2	5:qH:30:LYS:HD2	1.68	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kr:9:ILE:O	2:kr:9:ILE:HG22	2.08	0.53
2:kt:221:PHE:CE2	2:kt:241:LYS:HE3	2.44	0.53
1:kl:100:LYS:HD2	2:kp:197:LYS:NZ	2.24	0.53
1:kw:100:LYS:HD2	2:mx:197:LYS:NZ	2.24	0.53
2:li:196:THR:HG23	2:nn:205:MET:SD	2.49	0.53
2:li:240:GLU:HA	2:li:243:TYR:CE2	2.43	0.53
1:ln:59:VAL:HG12	1:ln:61:ALA:H	1.73	0.53
2:lx:171:TYR:OH	2:lx:216:ARG:NE	2.42	0.53
2:lf:93:ASP:OD2	2:nd:209:TYR:OH	2.22	0.53
2:lz:221:PHE:CE2	2:lz:241:LYS:HE3	2.44	0.53
1:mb:60:ARG:HG2	1:nv:99:LEU:CD2	2.37	0.53
2:mz:174:ASP:OD1	2:mz:214:ARG:NH2	2.41	0.53
2:nd:221:PHE:CE2	2:nd:241:LYS:HE3	2.44	0.53
2:nl:197:LYS:NZ	1:ok:100:LYS:HD2	2.24	0.53
2:nb:224:TRP:NE1	2:nb:242:VAL:HG21	2.23	0.53
2:nf:171:TYR:OH	2:nf:216:ARG:NE	2.42	0.53
2:np:174:ASP:OD1	2:np:214:ARG:NH2	2.41	0.53
1:oa:53:GLU:N	1:oa:53:GLU:OE1	2.41	0.53
2:oh:171:TYR:OH	2:oh:216:ARG:NE	2.42	0.53
2:oh:221:PHE:CE2	2:oh:241:LYS:HE3	2.44	0.53
2:of:174:ASP:OD1	2:of:214:ARG:NH2	2.41	0.53
2:pv:81:GLU:O	2:px:57:ARG:N	2.39	0.53
3:qi:65:GLY:O	4:qo:8:TYR:CD2	2.62	0.53
5:qr:304:THR:HG21	5:qr:326:VAL:HG21	1.90	0.53
5:qv:229:ILE:HD13	5:qx:232:LEU:HD21	1.85	0.53
5:qv:392:LEU:CD1	5:qx:400:TYR:HH	2.19	0.53
6:qa:8:ASP:HB3	6:qc:39:ARG:HH22	1.72	0.53
5:ql:304:THR:CG2	5:ql:326:VAL:HG21	2.38	0.53
1:ae:105:THR:HG21	2:fc:60:ILE:CG2	2.39	0.53
2:au:189:LYS:HB2	2:au:190:PRO:HD2	1.89	0.53
2:ah:13:LYS:NZ	2:kd:93:ASP:OD1	2.42	0.53
2:aj:5:THR:HG22	1:kk:87:ASP:CB	2.39	0.53
2:am:196:THR:HG23	2:mz:205:MET:SD	2.49	0.53
1:bc:102:GLU:OE2	1:bi:99:LEU:HD21	2.06	0.53
2:bm:60:ILE:O	1:ir:105:THR:HG23	2.08	0.53
1:bs:87:ASP:CB	2:ca:5:THR:HG22	2.39	0.53
2:bc:240:GLU:HA	2:bc:243:TYR:CE2	2.43	0.53
1:bg:87:ASP:CB	2:gq:5:THR:HG22	2.39	0.53
1:bj:82:ASP:OD1	1:bj:83:GLY:N	2.39	0.53
1:bk:103:ARG:HB3	2:bp:62:GLN:OE1	2.08	0.53
2:bp:240:GLU:HA	2:bp:243:TYR:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bT:87:ASP:CB	2:eY:5:THR:HG22	2.39	0.53
2:bZ:2:ALA:N	1:iP:94:GLU:CB	2.72	0.53
1:cf:99:LEU:HD21	1:iF:60:ARG:HD3	1.91	0.53
2:cm:197:LYS:NZ	1:iB:100:LYS:HD2	2.24	0.53
1:ct:100:LYS:HD2	2:pt:197:LYS:NZ	2.24	0.53
2:cG:14:THR:HG23	2:pg:12:LEU:HD21	1.89	0.53
2:cP:184:TYR:HH	2:cP:204:PHE:HD1	1.53	0.53
2:cQ:81:GLU:O	2:cS:57:ARG:N	2.39	0.53
2:dg:107:GLY:HA2	2:dg:184:TYR:HE1	1.66	0.53
2:dg:107:GLY:CA	2:dg:184:TYR:HE1	2.22	0.53
2:dI:9:ILE:HG22	2:dI:9:ILE:O	2.08	0.53
2:dJ:240:GLU:HA	2:dJ:243:TYR:CE2	2.43	0.53
2:dS:197:LYS:NZ	1:oY:100:LYS:HD2	2.24	0.53
2:dU:205:MET:SD	2:jR:196:THR:HG23	2.49	0.53
2:dW:62:GLN:HE21	2:jR:197:LYS:HZ1	1.56	0.53
2:ei:5:THR:HG22	1:ft:87:ASP:CB	2.39	0.53
2:ej:93:ASP:OD1	2:eu:13:LYS:NZ	2.42	0.53
2:em:221:PHE:CE2	2:em:241:LYS:HE3	2.44	0.53
2:eA:171:TYR:OH	2:eA:216:ARG:NE	2.42	0.53
1:eB:100:LYS:HD2	2:gC:197:LYS:NZ	2.24	0.53
2:eK:81:GLU:O	2:eM:57:ARG:N	2.39	0.53
2:eK:205:MET:SD	2:gV:196:THR:HG23	2.49	0.53
1:eS:59:VAL:HG12	1:eS:61:ALA:H	1.73	0.53
1:eU:105:THR:HG21	2:iM:60:ILE:CG2	2.39	0.53
1:fL:103:ARG:HB3	2:fr:62:GLN:OE1	2.08	0.53
2:fO:5:THR:HG22	1:gZ:87:ASP:CB	2.39	0.53
1:fT:100:LYS:HD2	2:ga:197:LYS:NZ	2.24	0.53
2:gc:5:THR:HG22	1:mc:87:ASP:CB	2.39	0.53
2:gc:192:PHE:CB	2:gc:195:MET:HE2	2.38	0.53
2:gT:93:ASP:OD1	2:IT:13:LYS:NZ	2.42	0.53
2:gW:14:THR:HG23	2:ih:12:LEU:HD21	1.89	0.53
2:he:197:LYS:HZ2	1:lM:100:LYS:HD2	1.73	0.53
2:hk:86:VAL:O	2:hk:202:GLN:N	2.37	0.53
2:ht:192:PHE:CB	2:ht:195:MET:HE2	2.38	0.53
2:ht:205:MET:SD	2:jb:196:THR:HG23	2.49	0.53
1:hB:59:VAL:HG12	1:hB:61:ALA:H	1.73	0.53
2:hJ:197:LYS:HE3	2:kT:62:GLN:HG2	1.91	0.53
2:hX:224:TRP:NE1	2:hX:242:VAL:HG21	2.23	0.53
1:ie:105:THR:HG21	2:nD:60:ILE:CG2	2.39	0.53
2:ih:136:PHE:HZ	2:ih:173:LEU:HD22	1.72	0.53
2:ik:9:ILE:HG22	2:ik:9:ILE:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ik:18:LYS:HD3	2:ik:96:LEU:HD13	1.90	0.53
2:iw:205:MET:SD	2:ou:196:THR:HG23	2.49	0.53
2:iI:186:GLU:N	2:iI:186:GLU:OE1	2.41	0.53
2:iK:174:ASP:OD1	2:iK:214:ARG:NH2	2.41	0.53
2:jO:224:TRP:NE1	2:jO:242:VAL:HG21	2.23	0.53
2:ke:9:ILE:O	2:ke:9:ILE:HG22	2.08	0.53
2:kp:174:ASP:OD1	2:kp:214:ARG:NH2	2.41	0.53
2:kp:224:TRP:NE1	2:kp:242:VAL:HG21	2.23	0.53
2:kB:186:GLU:OE1	2:kB:186:GLU:N	2.41	0.53
2:kD:163:ALA:HB3	2:kD:265:VAL:HG12	1.88	0.53
1:kO:103:ARG:HB3	2:kU:62:GLN:OE1	2.08	0.53
2:kR:192:PHE:CB	2:kR:195:MET:HE2	2.38	0.53
2:kR:224:TRP:NE1	2:kR:242:VAL:HG21	2.23	0.53
2:IY:173:LEU:HD11	2:IY:219:VAL:HG13	1.90	0.53
2:lZ:86:VAL:O	2:lZ:202:GLN:N	2.37	0.53
2:mj:224:TRP:NE1	2:mj:242:VAL:HG21	2.23	0.53
2:mA:173:LEU:HD11	2:mA:219:VAL:HG13	1.90	0.53
1:mI:53:GLU:N	1:mI:53:GLU:OE1	2.41	0.53
2:mL:205:MET:SD	2:oW:196:THR:HG23	2.49	0.53
2:mO:173:LEU:HD11	2:mO:219:VAL:HG13	1.90	0.53
2:mZ:192:PHE:CB	2:mZ:195:MET:HE2	2.38	0.53
2:nr:171:TYR:OH	2:nr:216:ARG:NE	2.42	0.53
1:nu:82:ASP:OD1	1:nu:83:GLY:N	2.41	0.53
2:nP:192:PHE:CB	2:nP:195:MET:HE2	2.38	0.53
2:oe:226:LEU:HD22	2:oe:270:LEU:HD22	1.91	0.53
2:oh:36:THR:O	2:oh:175:THR:OG1	2.18	0.53
1:ok:105:THR:HG23	2:oU:60:ILE:O	2.08	0.53
2:oq:63:ARG:HE	2:pW:205:MET:HE2	1.72	0.53
2:oE:136:PHE:HZ	2:oE:173:LEU:HD22	1.72	0.53
2:oH:9:ILE:O	2:oH:9:ILE:HG22	2.08	0.53
2:oT:81:GLU:O	2:oV:57:ARG:N	2.39	0.53
2:ph:260:ARG:HG2	2:ph:260:ARG:O	2.09	0.53
2:pl:221:PHE:CE2	2:pl:241:LYS:HE3	2.44	0.53
2:pz:117:LEU:HD21	2:pz:211:TYR:HA	1.90	0.53
2:pJ:81:GLU:O	2:pL:57:ARG:N	2.39	0.53
2:pJ:174:ASP:OD1	2:pJ:214:ARG:NH2	2.41	0.53
5:qz:392:LEU:HD12	5:qB:400:TYR:HE1	1.58	0.53
6:qC:112:LEU:CB	6:qE:58:LEU:HD13	2.34	0.53
2:aj:226:LEU:HD22	2:aj:270:LEU:HD22	1.91	0.53
1:ap:82:ASP:OD1	1:ap:83:GLY:N	2.41	0.53
2:av:224:TRP:NE1	2:av:242:VAL:HG21	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ax:9:ILE:O	2:ax:9:ILE:HG22	2.08	0.53
2:aM:173:LEU:HD11	2:aM:219:VAL:HG13	1.90	0.53
2:aN:221:PHE:CE2	2:aN:241:LYS:HE3	2.44	0.53
1:aO:100:LYS:HD2	2:iW:197:LYS:NZ	2.24	0.53
1:aQ:87:ASP:CB	2:jm:5:THR:HG22	2.39	0.53
2:aW:205:MET:HE2	2:bk:63:ARG:HE	1.72	0.53
2:aY:226:LEU:HD22	2:aY:270:LEU:HD22	1.91	0.53
1:bc:94:GLU:CB	2:iJ:2:ALA:N	2.72	0.53
1:bc:100:LYS:HD2	2:bj:197:LYS:NZ	2.24	0.53
1:bq:100:LYS:CD	1:dp:100:LYS:NZ	2.71	0.53
1:bH:59:VAL:HG12	1:bH:61:ALA:H	1.73	0.53
1:bJ:105:THR:HG21	2:IX:60:ILE:CG2	2.39	0.53
1:bK:70:GLY:CA	6:qw:117:LYS:N	2.68	0.53
2:cc:60:ILE:CG2	1:hQ:105:THR:HG21	2.39	0.53
2:cd:196:THR:HG23	2:hU:205:MET:SD	2.49	0.53
1:cf:94:GLU:CB	2:dr:2:ALA:N	2.72	0.53
2:cq:60:ILE:CG2	1:lp:105:THR:HG21	2.39	0.53
2:cs:221:PHE:CE2	2:cs:241:LYS:HE3	2.44	0.53
1:ct:100:LYS:HD2	2:pt:197:LYS:HZ2	1.73	0.53
2:cF:196:THR:HG23	2:nP:205:MET:SD	2.49	0.53
2:cG:171:TYR:OH	2:cG:216:ARG:NE	2.42	0.53
2:cG:221:PHE:CE2	2:cG:241:LYS:HE3	2.44	0.53
2:cS:18:LYS:HD3	2:cS:96:LEU:HD13	1.90	0.53
2:cT:196:THR:HG23	2:pJ:205:MET:SD	2.49	0.53
2:cU:221:PHE:CE2	2:cU:241:LYS:HE3	2.44	0.53
2:dc:117:LEU:HD21	2:dc:211:TYR:HA	1.88	0.53
1:dj:94:GLU:CB	2:eJ:2:ALA:N	2.72	0.53
2:du:107:GLY:HA2	2:du:184:TYR:HE1	1.66	0.53
2:dE:197:LYS:HZ2	1:fd:100:LYS:HD2	1.74	0.53
1:dL:94:GLU:CB	2:eX:2:ALA:N	2.72	0.53
1:dL:99:LEU:HD21	1:pc:60:ARG:HD3	1.91	0.53
1:dR:53:GLU:N	1:dR:53:GLU:OE1	2.41	0.53
2:dX:240:GLU:HA	2:dX:243:TYR:CE2	2.43	0.53
1:dZ:94:GLU:CB	2:oS:2:ALA:N	2.72	0.53
2:ej:196:THR:HG21	2:ez:192:PHE:CZ	2.42	0.53
2:ey:62:GLN:HG2	2:og:197:LYS:HE3	1.91	0.53
2:eA:144:TYR:HH	2:eA:254:GLY:H	1.57	0.53
1:eF:60:ARG:HD3	1:gv:99:LEU:HD21	1.91	0.53
2:eM:62:GLN:HG2	2:gV:197:LYS:HE3	1.90	0.53
2:fa:60:ILE:CG2	1:iG:105:THR:HG21	2.39	0.53
1:fg:98:LEU:O	1:ia:102:GLU:CD	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fq:171:TYR:OH	2:fq:216:ARG:NE	2.42	0.53
1:fr:94:GLU:CB	2:gD:2:ALA:N	2.72	0.53
2:fz:198:GLU:CG	1:mg:102:GLU:HA	2.35	0.53
2:fA:224:TRP:NE1	2:fA:242:VAL:HG21	2.23	0.53
2:fO:205:MET:SD	2:kG:196:THR:HG23	2.49	0.53
2:gc:205:MET:SD	2:mA:196:THR:HG23	2.48	0.53
2:gf:173:LEU:HD11	2:gf:219:VAL:HG13	1.90	0.53
1:gn:53:GLU:OE1	1:gn:53:GLU:N	2.41	0.53
1:hp:60:ARG:HD3	1:ku:99:LEU:HD21	1.91	0.53
2:hu:93:ASP:OD1	2:hF:13:LYS:NZ	2.42	0.53
2:hK:221:PHE:CE2	2:hK:241:LYS:HE3	2.44	0.53
2:iA:117:LEU:HD21	2:iA:211:TYR:HA	1.90	0.53
1:iE:59:VAL:HG12	1:iE:61:ALA:H	1.73	0.53
2:iO:57:ARG:NE	2:iO:64:VAL:HG22	2.24	0.53
1:iR:82:ASP:OD1	1:iR:83:GLY:N	2.41	0.53
2:iY:224:TRP:NE1	2:iY:242:VAL:HG21	2.23	0.53
2:jA:205:MET:SD	2:lK:196:THR:HG23	2.48	0.53
2:jE:221:PHE:CE2	2:jE:241:LYS:HE3	2.44	0.53
2:jS:57:ARG:NE	2:jS:64:VAL:HG22	2.24	0.53
1:jV:82:ASP:OD1	1:jV:83:GLY:N	2.41	0.53
2:kg:221:PHE:CE2	2:kg:241:LYS:HE3	2.44	0.53
2:ko:104:GLN:CD	5:qH:27:GLY:CA	2.78	0.53
2:kR:260:ARG:O	2:kR:260:ARG:HG2	2.09	0.53
1:kY:105:THR:HG23	2:lI:60:ILE:O	2.08	0.53
1:lm:82:ASP:OD1	1:lm:83:GLY:N	2.41	0.53
2:lF:13:LYS:NZ	2:na:93:ASP:OD1	2.42	0.53
1:lS:53:GLU:N	1:lS:53:GLU:OE1	2.41	0.53
1:mo:100:LYS:HD2	2:mv:197:LYS:NZ	2.24	0.53
2:mw:187:ARG:NH2	2:mB:192:PHE:O	2.40	0.53
2:mB:221:PHE:CE2	2:mB:241:LYS:HE3	2.44	0.53
2:mO:228:ALA:HB1	2:mO:283:LEU:HD11	1.88	0.53
2:nD:18:LYS:HD3	2:nD:96:LEU:HD13	1.90	0.53
1:nM:103:ARG:HB3	2:nS:62:GLN:OE1	2.08	0.53
2:nP:5:THR:HG22	1:pa:87:ASP:CB	2.39	0.53
2:nT:237:VAL:O	2:nT:241:LYS:HD3	2.08	0.53
2:oG:226:LEU:HD22	2:oG:270:LEU:HD22	1.91	0.53
2:oI:173:LEU:HD11	2:oI:219:VAL:HG13	1.90	0.53
2:pg:280:VAL:O	2:pg:289:ASN:ND2	2.41	0.53
2:ph:81:GLU:O	2:pj:57:ARG:N	2.39	0.53
1:po:82:ASP:OD1	1:po:83:GLY:N	2.41	0.53
2:pN:171:TYR:OH	2:pN:216:ARG:NE	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:pR:59:VAL:HG12	1:pR:61:ALA:H	1.73	0.53
3:qd:66:GLN:O	4:qn:10:GLN:CG	2.57	0.53
3:qf:55:GLU:HB3	4:ql:223:ASN:HD21	1.69	0.53
5:qz:317:PHE:HZ	5:qB:319:LEU:CD1	2.18	0.53
5:qF:304:THR:HG21	5:qF:326:VAL:HG21	1.90	0.53
6:qG:8:ASP:HB3	6:qI:39:ARG:HH22	1.72	0.53
2:ai:224:TRP:NE1	2:ai:242:VAL:HG21	2.23	0.53
2:az:221:PHE:CE2	2:az:241:LYS:HE3	2.44	0.53
2:aH:192:PHE:CE1	2:kb:191:SER:HA	2.44	0.53
2:aV:13:LYS:NZ	2:iL:93:ASP:OD1	2.42	0.53
2:aV:117:LEU:HD21	2:aV:211:TYR:HA	1.88	0.53
1:bc:99:LEU:HD21	1:bg:60:ARG:HD3	1.91	0.53
2:bn:9:ILE:O	2:bn:9:ILE:HG22	2.08	0.53
2:bn:274:ALA:HB1	2:bn:297:VAL:HG21	1.91	0.53
2:bp:57:ARG:NE	2:bp:64:VAL:HG22	2.24	0.53
2:bx:192:PHE:CE1	2:dd:191:SER:HA	2.44	0.53
2:by:136:PHE:HZ	2:by:173:LEU:HD22	1.72	0.53
2:bC:196:THR:HG23	2:dG:205:MET:SD	2.49	0.53
1:bU:59:VAL:HG12	1:bU:61:ALA:H	1.73	0.53
1:bX:103:ARG:HB3	2:cd:62:GLN:OE1	2.08	0.53
2:cc:18:LYS:HD3	2:cc:96:LEU:HD13	1.90	0.53
2:ce:171:TYR:OH	2:ce:216:ARG:NE	2.42	0.53
2:cm:192:PHE:CE1	2:iv:191:SER:HA	2.44	0.53
2:cp:60:ILE:O	1:jf:105:THR:HG23	2.08	0.53
2:cr:240:GLU:HA	2:cr:243:TYR:CE2	2.43	0.53
2:cs:57:ARG:NE	2:cs:64:VAL:HG22	2.24	0.53
2:cs:171:TYR:OH	2:cs:216:ARG:NE	2.42	0.53
2:cs:237:VAL:O	2:cs:241:LYS:HD3	2.08	0.53
1:cJ:105:THR:HG23	2:iL:60:ILE:O	2.08	0.53
2:dc:186:GLU:N	2:dc:186:GLU:OE1	2.41	0.53
2:de:260:ARG:O	2:de:260:ARG:HG2	2.09	0.53
2:dW:57:ARG:NE	2:dW:64:VAL:HG22	2.24	0.53
2:dK:57:ARG:NE	2:dK:64:VAL:HG22	2.24	0.53
2:eh:2:ALA:N	1:eB:94:GLU:CB	2.72	0.53
2:ek:107:GLY:CA	2:ek:184:TYR:HE1	2.22	0.53
1:en:94:GLU:CB	2:nA:2:ALA:N	2.72	0.53
1:ep:87:ASP:CB	2:ph:5:THR:HG22	2.39	0.53
2:ez:224:TRP:NE1	2:ez:242:VAL:HG21	2.23	0.53
1:eG:105:THR:HG21	2:gU:60:ILE:CG2	2.39	0.53
2:eK:192:PHE:CB	2:eK:195:MET:HE2	2.38	0.53
2:eM:9:ILE:O	2:eM:9:ILE:HG22	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eY:81:GLU:O	2:fa:57:ARG:N	2.39	0.53
2:fc:57:ARG:NE	2:fc:64:VAL:HG22	2.24	0.53
2:fk:192:PHE:CE1	2:gD:191:SER:HA	2.44	0.53
1:fF:100:LYS:HD2	2:mh:197:LYS:NZ	2.24	0.53
2:fO:174:ASP:OD1	2:fO:214:ARG:NH2	2.41	0.53
2:fS:57:ARG:NE	2:fS:64:VAL:HG22	2.24	0.53
2:fS:171:TYR:OH	2:fS:216:ARG:NE	2.42	0.53
2:gg:171:TYR:OH	2:gg:216:ARG:NE	2.42	0.53
2:gu:221:PHE:CE2	2:gu:241:LYS:HE3	2.44	0.53
2:he:192:PHE:CE1	2:lG:191:SER:HA	2.44	0.53
2:hk:237:VAL:O	2:hk:241:LYS:HD3	2.08	0.53
2:hw:196:THR:HG23	2:iY:205:MET:SD	2.49	0.53
2:hH:226:LEU:HD22	2:hH:270:LEU:HD22	1.91	0.53
2:hJ:173:LEU:HD11	2:hJ:219:VAL:HG13	1.90	0.53
2:hT:44:SER:OG	2:hT:75:ILE:O	2.21	0.53
2:hU:224:TRP:NE1	2:hU:242:VAL:HG21	2.23	0.53
2:hX:173:LEU:HD11	2:hX:219:VAL:HG13	1.90	0.53
2:il:173:LEU:HD11	2:il:219:VAL:HG13	1.90	0.53
2:ix:226:LEU:HD22	2:ix:270:LEU:HD22	1.91	0.53
2:iy:18:LYS:HD3	2:iy:96:LEU:HD13	1.90	0.53
2:iJ:280:VAL:O	2:iJ:289:ASN:ND2	2.41	0.53
1:iS:59:VAL:HG12	1:iS:61:ALA:H	1.73	0.53
2:jQ:57:ARG:NE	2:jQ:64:VAL:HG22	2.24	0.53
1:jR:99:LEU:HD21	1:lO:60:ARG:HD3	1.91	0.53
2:jZ:191:SER:HA	2:pV:192:PHE:CE1	2.44	0.53
2:jC:107:GLY:CA	2:jC:184:TYR:HE1	2.22	0.53
2:jP:226:LEU:HD22	2:jP:270:LEU:HD22	1.90	0.53
2:kc:163:ALA:HB3	2:kc:265:VAL:HG12	1.88	0.53
2:kg:117:LEU:HD21	2:kg:211:TYR:HA	1.90	0.53
2:kt:92:GLU:HB3	5:qD:43:ALA:C	2.34	0.53
2:kt:117:LEU:HD21	2:kt:211:TYR:HA	1.90	0.53
2:kV:221:PHE:CE2	2:kV:241:LYS:HE3	2.44	0.53
1:kW:100:LYS:CE	1:mW:100:LYS:HZ1	2.21	0.53
2:lf:5:THR:HG22	1:oy:87:ASP:CB	2.39	0.53
1:lB:99:LEU:C	2:oF:197:LYS:NZ	2.58	0.53
1:lC:60:ARG:HD3	1:ne:99:LEU:HD21	1.91	0.53
2:lF:197:LYS:NZ	1:ne:100:LYS:HD2	2.24	0.53
2:lW:226:LEU:HD22	2:lW:270:LEU:HD22	1.90	0.53
2:lZ:57:ARG:NE	2:lZ:64:VAL:HG22	2.24	0.53
1:md:59:VAL:HG12	1:md:61:ALA:H	1.73	0.53
2:mn:117:LEU:HD21	2:mn:211:TYR:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mn:221:PHE:CE2	2:mn:241:LYS:HE3	2.44	0.53
2:mA:224:TRP:NE1	2:mA:242:VAL:HG21	2.23	0.53
2:mL:174:ASP:OD1	2:mL:214:ARG:NH2	2.41	0.53
2:nd:57:ARG:NE	2:nd:64:VAL:HG22	2.24	0.53
1:ns:94:GLU:CB	2:oE:2:ALA:N	2.72	0.53
1:ny:103:ARG:HB3	2:nE:62:GLN:OE1	2.08	0.53
2:nO:2:ALA:N	1:oi:94:GLU:CB	2.72	0.53
2:nR:107:GLY:CA	2:nR:184:TYR:HE1	2.22	0.53
1:nU:99:LEU:HD21	1:nY:60:ARG:HD3	1.91	0.53
1:nX:59:VAL:HG12	1:nX:61:ALA:H	1.73	0.53
2:og:173:LEU:HD11	2:og:219:VAL:HG13	1.90	0.53
1:ok:87:ASP:CB	2:oT:5:THR:HG22	2.39	0.53
2:ov:221:PHE:CE2	2:ov:241:LYS:HE3	2.44	0.53
2:oJ:221:PHE:CE2	2:oJ:241:LYS:HE3	2.44	0.53
2:oX:117:LEU:HD21	2:oX:211:TYR:HA	1.90	0.53
2:pl:237:VAL:O	2:pl:241:LYS:HD3	2.08	0.53
1:pA:99:LEU:HD21	1:pE:60:ARG:HD3	1.91	0.53
1:pD:59:VAL:HG12	1:pD:61:ALA:H	1.73	0.53
2:pN:57:ARG:NE	2:pN:64:VAL:HG22	2.24	0.53
3:qh:66:GLN:C	4:qj:8:TYR:HD2	2.16	0.53
5:qp:304:THR:CG2	5:qp:326:VAL:HG21	2.38	0.53
6:qy:112:LEU:HD23	6:qA:58:LEU:CD1	1.02	0.53
6:qC:8:ASP:HB3	6:qE:39:ARG:HH22	1.72	0.53
6:qE:8:ASP:HB3	6:qG:39:ARG:HH22	1.72	0.53
2:am:144:TYR:HH	2:am:254:GLY:H	1.57	0.53
2:am:197:LYS:CE	1:oQ:100:LYS:N	2.60	0.53
2:az:117:LEU:HD21	2:az:211:TYR:HA	1.90	0.53
1:aB:102:GLU:OE1	2:aJ:197:LYS:NZ	2.30	0.53
1:aE:60:ARG:HD3	1:kh:99:LEU:HD21	1.91	0.53
2:aI:282:ARG:NH2	2:kb:282:ARG:HH11	1.93	0.53
2:aK:60:ILE:O	1:kK:105:THR:HG23	2.08	0.53
2:aL:9:ILE:O	2:aL:9:ILE:HG22	2.08	0.53
2:aX:260:ARG:O	2:aX:260:ARG:HG2	2.09	0.53
2:bo:196:THR:HG23	2:jm:205:MET:SD	2.49	0.53
2:bx:197:LYS:NZ	1:dj:100:LYS:HD2	2.24	0.53
2:by:117:LEU:HD21	2:by:211:TYR:CA	2.40	0.53
2:bL:13:LYS:NZ	2:hH:93:ASP:OD1	2.42	0.53
1:cj:60:ARG:HD3	1:iB:99:LEU:HD21	1.91	0.53
2:cn:2:ALA:N	1:pA:94:GLU:CB	2.72	0.53
2:co:260:ARG:O	2:co:260:ARG:HG2	2.09	0.53
2:cq:9:ILE:HG22	2:cq:9:ILE:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cv:102:GLU:HB2	1:pC:99:LEU:CD2	2.33	0.53
2:cF:173:LEU:HD11	2:cF:219:VAL:HG13	1.90	0.53
2:cP:2:ALA:N	1:fd:94:GLU:CB	2.72	0.53
1:cV:99:LEU:HD21	1:eT:60:ARG:HD3	1.91	0.53
2:dg:274:ALA:HB1	2:dg:297:VAL:HG21	1.91	0.53
2:di:57:ARG:NE	2:di:64:VAL:HG22	2.24	0.53
2:dv:196:THR:HG23	2:kp:205:MET:SD	2.49	0.53
2:dE:197:LYS:NZ	1:fd:100:LYS:HD2	2.24	0.53
2:dU:5:THR:HG22	1:pC:87:ASP:CB	2.39	0.53
2:dU:260:ARG:HG2	2:dU:260:ARG:O	2.09	0.53
2:dY:36:THR:O	2:dY:175:THR:OG1	2.18	0.53
2:eg:197:LYS:NZ	1:nG:100:LYS:HD2	2.24	0.53
1:eD:87:ASP:CB	2:fm:5:THR:HG22	2.39	0.53
2:eK:5:THR:HG22	1:ib:87:ASP:CB	2.39	0.53
2:eN:196:THR:HG23	2:gS:205:MET:SD	2.49	0.53
2:fl:205:MET:HE2	2:nA:63:ARG:HE	1.72	0.53
2:fo:18:LYS:HD3	2:fo:96:LEU:HD13	1.90	0.53
1:ft:99:LEU:CD2	1:nW:102:GLU:HB2	2.33	0.53
1:fK:105:THR:HG21	2:kF:60:ILE:CG2	2.38	0.53
2:fR:196:THR:HG23	2:kD:205:MET:SD	2.49	0.53
1:gy:62:THR:OG1	1:gy:100:LYS:O	2.27	0.53
2:gH:197:LYS:HZ1	2:pj:62:GLN:HE21	1.56	0.53
2:gW:221:PHE:CE2	2:gW:241:LYS:HE3	2.44	0.53
2:hg:5:THR:HG22	1:mq:87:ASP:CB	2.39	0.53
2:hg:205:MET:SD	2:ol:196:THR:HG23	2.49	0.53
2:hk:117:LEU:HD21	2:hk:211:TYR:HA	1.90	0.53
1:hn:82:ASP:OD1	1:hn:83:GLY:N	2.41	0.53
1:hz:57:VAL:HG22	1:hz:104:CYS:H	1.75	0.53
2:hJ:240:GLU:HA	2:hJ:243:TYR:CE2	2.43	0.53
2:hK:57:ARG:NE	2:hK:64:VAL:HG22	2.24	0.53
2:hU:81:GLU:O	2:hW:57:ARG:N	2.39	0.53
2:iA:57:ARG:NE	2:iA:64:VAL:HG22	2.24	0.53
1:iB:94:GLU:CB	2:jN:2:ALA:N	2.72	0.53
2:jc:221:PHE:CE2	2:jc:241:LYS:HE3	2.44	0.53
2:jp:224:TRP:NE1	2:jp:242:VAL:HG21	2.23	0.53
2:jQ:221:PHE:CE2	2:jQ:241:LYS:HE3	2.44	0.53
2:kb:117:LEU:HD21	2:kb:211:TYR:CA	2.39	0.53
2:kg:57:ARG:NE	2:kg:64:VAL:HG22	2.24	0.53
1:kh:94:GLU:CB	2:ls:2:ALA:N	2.72	0.53
1:kz:82:ASP:OD1	1:kz:83:GLY:N	2.39	0.53
1:kA:103:ARG:HB3	2:kG:62:GLN:OE1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kE:60:ILE:O	1:lO:105:THR:HG23	2.08	0.53
2:kF:107:GLY:HA2	2:kF:184:TYR:HE1	1.66	0.53
2:kS:93:ASP:OD1	2:mX:13:LYS:NZ	2.41	0.53
2:kU:173:LEU:HD11	2:kU:219:VAL:HG13	1.90	0.53
1:kY:87:ASP:CB	2:lH:5:THR:HG22	2.39	0.53
1:lc:103:ARG:HB3	2:li:62:GLN:OE1	2.08	0.53
2:lh:9:ILE:O	2:lh:9:ILE:HG22	2.08	0.53
2:li:224:TRP:NE1	2:li:242:VAL:HG21	2.23	0.53
1:lk:94:GLU:CB	2:mK:2:ALA:N	2.72	0.53
2:lG:187:ARG:NH2	2:lL:192:PHE:O	2.40	0.53
2:mi:2:ALA:N	1:mC:94:GLU:CB	2.72	0.53
1:mE:102:GLU:HB2	1:ng:99:LEU:CD2	2.33	0.53
2:mN:9:ILE:HG22	2:mN:9:ILE:O	2.08	0.53
2:mP:57:ARG:NE	2:mP:64:VAL:HG22	2.24	0.53
1:mR:57:VAL:HG22	1:mR:104:CYS:H	1.74	0.53
1:mW:103:ARG:HB3	2:nc:62:GLN:OE1	2.08	0.53
2:nT:57:ARG:NE	2:nT:64:VAL:HG22	2.24	0.53
2:nT:117:LEU:HD21	2:nT:211:TYR:HA	1.90	0.53
1:nU:100:LYS:HD2	2:ob:197:LYS:NZ	2.24	0.53
1:oo:100:LYS:NZ	1:qc:100:LYS:CD	2.71	0.53
2:op:192:PHE:CE1	2:pW:191:SER:HA	2.44	0.53
2:oJ:57:ARG:NE	2:oJ:64:VAL:HG22	2.24	0.53
2:oJ:86:VAL:O	2:oJ:202:GLN:N	2.37	0.53
1:oM:82:ASP:OD1	1:oM:83:GLY:N	2.41	0.53
2:oS:187:ARG:NH2	2:oX:192:PHE:O	2.40	0.53
2:oX:57:ARG:NE	2:oX:64:VAL:HG22	2.24	0.53
2:oX:171:TYR:OH	2:oX:216:ARG:NE	2.42	0.53
2:pu:282:ARG:HH11	2:pI:282:ARG:NH2	1.93	0.53
2:pL:9:ILE:HG22	2:pL:9:ILE:O	2.08	0.53
2:qb:57:ARG:NE	2:qb:64:VAL:HG22	2.24	0.53
3:qe:65:GLY:C	4:qm:10:GLN:CG	2.77	0.53
3:qh:9:PHE:O	3:qi:95:ARG:NH2	2.42	0.53
4:qj:179:THR:HG22	4:qk:247:GLY:HA2	1.91	0.53
4:qk:179:THR:HG22	4:ql:247:GLY:HA2	1.91	0.53
5:qr:304:THR:CG2	5:qr:326:VAL:HG21	2.38	0.53
6:qs:112:LEU:CB	6:qu:58:LEU:HD13	2.34	0.53
5:qv:53:GLU:CD	5:qx:35:HIS:CE1	2.80	0.53
5:qv:304:THR:CG2	5:qv:326:VAL:HG21	2.38	0.53
5:qz:304:THR:HG21	5:qz:326:VAL:HG21	1.90	0.53
2:ah:191:SER:HA	2:oR:192:PHE:CE1	2.44	0.52
2:aj:93:ASP:OD1	2:oR:13:LYS:NZ	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ak:274:ALA:HB1	2:ak:297:VAL:HG21	1.91	0.52
2:al:173:LEU:HD11	2:al:219:VAL:HG13	1.90	0.52
2:az:103:MET:SD	5:qJ:32:PHE:HE2	2.15	0.52
1:aA:99:LEU:HD21	1:kl:60:ARG:HD3	1.91	0.52
2:aI:2:ALA:N	1:jd:94:GLU:CB	2.72	0.52
2:aI:280:VAL:O	2:aI:289:ASN:ND2	2.41	0.52
2:aX:224:TRP:NE1	2:aX:242:VAL:HG21	2.23	0.52
2:ba:173:LEU:HD11	2:ba:219:VAL:HG13	1.90	0.52
1:be:87:ASP:CB	2:kp:5:THR:HG22	2.39	0.52
2:bk:191:SER:HA	2:dq:192:PHE:CE1	2.44	0.52
2:bC:173:LEU:HD11	2:bC:219:VAL:HG13	1.90	0.52
2:bL:190:PRO:HG3	2:hK:185:GLN:OE1	2.10	0.52
1:bV:60:ARG:HD3	1:dx:99:LEU:HD21	1.91	0.52
2:bZ:191:SER:HA	2:iI:192:PHE:CE1	2.44	0.52
2:ce:57:ARG:NE	2:ce:64:VAL:HG22	2.24	0.52
2:cn:280:VAL:O	2:cn:289:ASN:ND2	2.41	0.52
2:cr:192:PHE:CZ	2:ix:196:THR:HG21	2.42	0.52
2:cB:2:ALA:N	1:cV:94:GLU:CB	2.72	0.52
1:cJ:82:ASP:OD1	1:cJ:83:GLY:N	2.41	0.52
2:cS:60:ILE:CG2	1:pF:105:THR:HG21	2.39	0.52
2:cU:57:ARG:NE	2:cU:64:VAL:HG22	2.24	0.52
1:cY:59:VAL:HG12	1:cY:61:ALA:H	1.73	0.52
1:cZ:60:ARG:HD3	1:eP:99:LEU:HD21	1.91	0.52
2:dc:197:LYS:NZ	1:eP:100:LYS:HD2	2.24	0.52
2:dG:60:ILE:CG2	1:fi:105:THR:HG21	2.39	0.52
1:dj:83:GLY:HA3	2:eJ:8:LEU:CD1	2.37	0.52
2:du:107:GLY:CA	2:du:184:TYR:HE1	2.22	0.52
1:dB:60:ARG:HD3	1:fd:99:LEU:HD21	1.91	0.52
2:dG:260:ARG:O	2:dG:260:ARG:HG2	2.09	0.52
2:dH:226:LEU:HD22	2:dH:270:LEU:HD22	1.91	0.52
1:dL:102:GLU:OE2	1:pe:99:LEU:HD21	2.06	0.52
1:dZ:99:LEU:HD21	1:nK:60:ARG:HD3	1.91	0.52
1:ed:60:ARG:HD3	1:nG:99:LEU:HD21	1.91	0.52
1:ef:100:LYS:NZ	1:nG:100:LYS:CD	2.71	0.52
2:eh:191:SER:HA	2:eu:192:PHE:CE1	2.44	0.52
2:ek:9:ILE:HG22	2:ek:9:ILE:O	2.08	0.52
2:ek:274:ALA:HB1	2:ek:297:VAL:HG21	1.91	0.52
1:eq:103:ARG:NH1	2:gE:61:GLY:CA	2.70	0.52
2:ex:226:LEU:HD22	2:ex:270:LEU:HD22	1.91	0.52
2:ey:107:GLY:CA	2:ey:184:TYR:HE1	2.22	0.52
1:eD:102:GLU:HB2	1:ff:99:LEU:CD2	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eI:197:LYS:NZ	1:gv:100:LYS:HD2	2.24	0.52
2:fl:187:ARG:NH2	2:fq:192:PHE:O	2.40	0.52
1:fx:102:GLU:HA	2:nm:198:GLU:CG	2.35	0.52
2:fm:13:LYS:NZ	2:lW:93:ASP:OD1	2.42	0.52
2:fn:280:VAL:O	2:fn:289:ASN:ND2	2.41	0.52
2:fr:192:PHE:CZ	2:lW:196:THR:HG21	2.42	0.52
2:fs:117:LEU:HD21	2:fs:211:TYR:HA	1.90	0.52
1:ft:99:LEU:HD21	1:fx:60:ARG:HD3	1.91	0.52
2:gf:196:THR:HG23	2:mx:205:MET:SD	2.49	0.52
1:gn:100:LYS:NZ	1:hZ:100:LYS:CD	2.71	0.52
2:gs:107:GLY:CA	2:gs:184:TYR:HE1	2.22	0.52
2:gu:171:TYR:OH	2:gu:216:ARG:NE	2.42	0.52
2:gU:274:ALA:HB1	2:gU:297:VAL:HG21	1.91	0.52
2:hi:60:ILE:CG2	1:oB:105:THR:HG21	2.39	0.52
1:ho:62:THR:OG1	1:ho:100:LYS:O	2.27	0.52
1:hq:82:ASP:OD1	1:hq:83:GLY:N	2.39	0.52
1:hr:99:LEU:HD21	1:ku:102:GLU:OE2	2.06	0.52
1:hr:103:ARG:HB3	2:hw:62:GLN:OE1	2.08	0.52
1:hB:99:LEU:CA	2:lV:197:LYS:HZ2	2.22	0.52
2:hF:32:LEU:CB	5:qv:178:PRO:HD2	2.39	0.52
2:hK:171:TYR:OH	2:hK:216:ARG:NE	2.42	0.52
1:hO:59:VAL:HG12	1:hO:61:ALA:H	1.73	0.52
2:hT:117:LEU:HD21	2:hT:211:TYR:CA	2.39	0.52
2:hY:57:ARG:NE	2:hY:64:VAL:HG22	2.24	0.52
2:ih:187:ARG:NH2	2:im:192:PHE:O	2.40	0.52
1:io:57:VAL:HG22	1:io:104:CYS:H	1.75	0.52
1:ir:60:ARG:HD3	1:jT:99:LEU:HD21	1.91	0.52
2:iO:171:TYR:OH	2:iO:216:ARG:NE	2.42	0.52
2:iX:117:LEU:HD21	2:iX:211:TYR:CA	2.40	0.52
2:jl:2:ALA:N	1:ly:94:GLU:CB	2.72	0.52
2:jl:187:ARG:NH2	2:jQ:192:PHE:O	2.40	0.52
2:jy:197:LYS:NZ	1:lk:100:LYS:HD2	2.24	0.52
2:jC:9:ILE:O	2:jC:9:ILE:HG22	2.08	0.52
2:jM:192:PHE:CE1	2:pI:191:SER:HA	2.44	0.52
2:ka:192:PHE:CE1	2:ls:191:SER:HA	2.44	0.52
2:kC:187:ARG:NH2	2:kH:192:PHE:O	2.40	0.52
2:kH:171:TYR:OH	2:kH:216:ARG:NE	2.42	0.52
2:lj:117:LEU:HD21	2:lj:211:TYR:HA	1.90	0.52
2:lj:171:TYR:OH	2:lj:216:ARG:NE	2.42	0.52
2:lt:81:GLU:O	2:lv:57:ARG:N	2.39	0.52
1:lA:87:ASP:CB	2:oF:5:THR:HG22	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IL:117:LEU:HD21	2:IL:211:TYR:HA	1.90	0.52
1:mb:57:VAL:HG22	1:mb:104:CYS:H	1.74	0.52
1:nV:57:VAL:HG22	1:nV:104:CYS:H	1.75	0.52
1:nW:82:ASP:OD1	1:nW:83:GLY:N	2.41	0.52
2:od:174:ASP:OD1	2:od:214:ARG:NH2	2.41	0.52
1:ol:59:VAL:HG12	1:ol:61:ALA:H	1.73	0.52
2:ot:107:GLY:CA	2:ot:184:TYR:HE1	2.22	0.52
1:ox:57:VAL:HG22	1:ox:104:CYS:H	1.75	0.52
2:oJ:171:TYR:OH	2:oJ:216:ARG:NE	2.42	0.52
2:oT:260:ARG:HG2	2:oT:260:ARG:O	2.09	0.52
2:oV:9:ILE:HG22	2:oV:9:ILE:O	2.08	0.52
1:pa:82:ASP:OD1	1:pa:83:GLY:N	2.41	0.52
2:pj:18:LYS:HD3	2:pj:96:LEU:HD13	1.90	0.52
2:pj:274:ALA:HB1	2:pj:297:VAL:HG21	1.91	0.52
2:pk:173:LEU:HD11	2:pk:219:VAL:HG13	1.90	0.52
2:pl:171:TYR:OH	2:pl:216:ARG:NE	2.42	0.52
2:pu:191:SER:HA	2:pH:192:PHE:CE1	2.44	0.52
2:px:274:ALA:HB1	2:px:297:VAL:HG21	1.91	0.52
2:pJ:260:ARG:O	2:pJ:260:ARG:HG2	2.09	0.52
2:pM:224:TRP:NE1	2:pM:242:VAL:HG21	2.23	0.52
3:qg:25:LEU:HD21	6:qG:82:VAL:CB	2.39	0.52
4:ql:116:PHE:CZ	4:qm:202:ILE:HD13	2.36	0.52
6:qu:122:ALA:O	6:qu:126:GLN:NE2	2.40	0.52
2:ak:9:ILE:O	2:ak:9:ILE:HG22	2.08	0.52
1:ap:99:LEU:CD2	1:hN:102:GLU:HB2	2.33	0.52
2:av:197:LYS:HZ1	1:hO:99:LEU:CA	2.12	0.52
2:av:205:MET:SD	2:gt:196:THR:HG23	2.49	0.52
2:az:57:ARG:NE	2:az:64:VAL:HG22	2.24	0.52
2:aL:274:ALA:HB1	2:aL:297:VAL:HG21	1.91	0.52
2:aN:57:ARG:NE	2:aN:64:VAL:HG22	2.24	0.52
2:aN:185:GLN:OE1	2:iW:190:PRO:HG3	2.10	0.52
2:aW:117:LEU:HD21	2:aW:211:TYR:CA	2.39	0.52
2:ba:300:THR:HG23	2:ba:303:LEU:CD2	2.40	0.52
2:bp:171:TYR:OH	2:bp:216:ARG:NE	2.42	0.52
2:bL:111:GLY:N	5:qr:178:PRO:HD3	2.23	0.52
2:bQ:221:PHE:CE2	2:bQ:241:LYS:HE3	2.44	0.52
2:cb:226:LEU:HD22	2:cb:270:LEU:HD22	1.90	0.52
2:cC:23:ALA:O	2:cC:24:LEU:HD22	2.10	0.52
1:cI:57:VAL:HG22	1:cI:104:CYS:H	1.74	0.52
2:cP:221:PHE:HD1	2:cP:242:VAL:HG22	1.70	0.52
2:di:171:TYR:OH	2:di:216:ARG:NE	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dt:226:LEU:HD22	2:dt:270:LEU:HD22	1.91	0.52
2:dw:221:PHE:CE2	2:dw:241:LYS:HE3	2.44	0.52
1:dA:59:VAL:HG12	1:dA:61:ALA:H	1.73	0.52
2:dT:2:ALA:N	1:nU:94:GLU:CB	2.72	0.52
2:dW:60:ILE:CG2	1:jK:105:THR:HG21	2.39	0.52
1:ef:53:GLU:N	1:ef:53:GLU:OE1	2.41	0.52
2:ei:260:ARG:O	2:ei:260:ARG:HG2	2.09	0.52
2:ev:117:LEU:HD21	2:ev:211:TYR:CA	2.40	0.52
2:ew:23:ALA:O	2:ew:24:LEU:HD22	2.10	0.52
2:ez:173:LEU:HD11	2:ez:219:VAL:HG13	1.90	0.52
1:eB:100:LYS:CE	1:gB:100:LYS:HZ1	2.21	0.52
2:fa:62:GLN:HG2	2:iN:197:LYS:HE3	1.91	0.52
2:fk:43:ALA:O	2:fk:44:SER:OG	2.20	0.52
2:fl:191:SER:HA	2:nz:192:PHE:CE1	2.44	0.52
2:fA:12:LEU:HD11	2:of:96:LEU:HB2	1.92	0.52
2:fE:86:VAL:O	2:fE:202:GLN:N	2.37	0.52
2:fr:224:TRP:NE1	2:fr:242:VAL:HG21	2.23	0.52
2:ge:18:LYS:HD3	2:ge:96:LEU:HD13	1.90	0.52
2:ge:107:GLY:CA	2:ge:184:TYR:HE1	2.22	0.52
2:gQ:192:PHE:CE1	2:ih:191:SER:HA	2.44	0.52
2:he:13:LYS:NZ	2:II:93:ASP:OD1	2.42	0.52
2:hi:107:GLY:CA	2:hi:184:TYR:HE1	2.22	0.52
2:hk:57:ARG:NE	2:hk:64:VAL:HG22	2.24	0.52
1:hl:100:LYS:HD2	2:kB:197:LYS:NZ	2.24	0.52
2:hs:190:PRO:HG3	2:kt:185:GLN:OE1	2.10	0.52
1:hE:53:GLU:OE1	1:hE:53:GLU:N	2.41	0.52
2:hJ:196:THR:HG23	2:kR:205:MET:SD	2.49	0.52
1:hO:62:THR:OG1	1:hO:100:LYS:O	2.27	0.52
2:hU:260:ARG:O	2:hU:260:ARG:HG2	2.09	0.52
2:hW:107:GLY:CA	2:hW:184:TYR:HE1	2.22	0.52
2:iv:282:ARG:NH2	2:jN:282:ARG:HH11	1.93	0.52
2:iy:107:GLY:CA	2:iy:184:TYR:HE1	2.22	0.52
2:iA:221:PHE:CE2	2:iA:241:LYS:HE3	2.44	0.52
2:iJ:117:LEU:HD21	2:iJ:211:TYR:CA	2.39	0.52
2:iK:224:TRP:NE1	2:iK:242:VAL:HG21	2.23	0.52
2:iX:2:ALA:N	1:jr:94:GLU:CB	2.72	0.52
2:iY:81:GLU:O	2:ja:57:ARG:N	2.39	0.52
1:jd:100:LYS:CD	1:jj:100:LYS:NZ	2.71	0.52
1:jd:100:LYS:CE	1:jj:100:LYS:HZ1	2.21	0.52
2:jl:205:MET:HE2	2:ls:63:ARG:HE	1.72	0.52
1:jt:87:ASP:CB	2:kc:5:THR:HG22	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jy:13:LYS:NZ	2:lg:93:ASP:OD1	2.42	0.52
2:jB:196:THR:HG21	2:qa:192:PHE:CZ	2.42	0.52
2:jM:190:PRO:HG3	2:pN:185:GLN:OE1	2.10	0.52
1:jX:60:ARG:HD3	1:ly:99:LEU:HD21	1.91	0.52
1:jZ:99:LEU:HD21	1:ly:102:GLU:OE2	2.06	0.52
2:ka:197:LYS:NZ	1:ly:100:LYS:HD2	2.24	0.52
1:kw:82:ASP:OD1	1:kw:83:GLY:N	2.41	0.52
2:kC:2:ALA:N	1:kW:94:GLU:CB	2.72	0.52
2:kF:274:ALA:HB1	2:kF:297:VAL:HG21	1.91	0.52
2:kG:240:GLU:HA	2:kG:243:TYR:CE2	2.43	0.52
2:lj:221:PHE:CE2	2:lj:241:LYS:HE3	2.44	0.52
1:lm:87:ASP:CB	2:pX:5:THR:HG22	2.39	0.52
2:IV:224:TRP:NE1	2:IV:242:VAL:HG21	2.23	0.52
2:IV:260:ARG:O	2:IV:260:ARG:HG2	2.09	0.52
2:mn:171:TYR:OH	2:mn:216:ARG:NE	2.42	0.52
1:mo:99:LEU:HD21	1:ms:60:ARG:HD3	1.91	0.52
2:mJ:13:LYS:NZ	2:os:93:ASP:OD1	2.42	0.52
2:mP:171:TYR:OH	2:mP:216:ARG:NE	2.42	0.52
2:nn:23:ALA:O	2:nn:24:LEU:HD22	2.10	0.52
2:np:274:ALA:HB1	2:np:297:VAL:HG21	1.91	0.52
2:nA:117:LEU:HD21	2:nA:211:TYR:CA	2.39	0.52
2:nO:117:LEU:HD21	2:nO:211:TYR:CA	2.39	0.52
2:oh:57:ARG:NE	2:oh:64:VAL:HG22	2.24	0.52
1:oo:99:LEU:HD23	1:qc:102:GLU:CG	2.18	0.52
2:ov:57:ARG:NE	2:ov:64:VAL:HG22	2.24	0.52
2:oS:117:LEU:HD21	2:oS:211:TYR:CA	2.40	0.52
2:pz:209:TYR:OH	2:pH:93:ASP:OD2	2.22	0.52
3:qd:55:GLU:OE1	4:qn:223:ASN:ND2	2.30	0.52
4:qj:214:GLN:O	4:qk:38:GLN:CG	2.57	0.52
5:qz:285:PHE:O	5:qz:289:MET:HG3	2.10	0.52
6:qG:122:ALA:O	6:qG:126:GLN:NE2	2.40	0.52
2:ag:190:PRO:HG3	2:oh:185:GLN:OE1	2.10	0.52
2:ah:2:ALA:N	1:oY:94:GLU:CB	2.72	0.52
1:aq:82:ASP:OD1	1:aq:83:GLY:N	2.43	0.52
1:at:100:LYS:NZ	1:bR:100:LYS:CD	2.71	0.52
2:aL:18:LYS:HD3	2:aL:96:LEU:HD13	1.90	0.52
1:aO:94:GLU:CB	2:kb:2:ALA:N	2.72	0.52
2:aW:191:SER:HA	2:bj:192:PHE:CE1	2.44	0.52
2:bb:57:ARG:NE	2:bb:64:VAL:HG22	2.24	0.52
1:be:99:LEU:CD2	1:iR:102:GLU:HB2	2.33	0.52
2:bk:2:ALA:N	1:dx:94:GLU:CB	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bl:205:MET:SD	2:jp:196:THR:HG23	2.49	0.52
1:bs:82:ASP:OD1	1:bs:83:GLY:N	2.41	0.52
1:bt:82:ASP:OD1	1:bt:83:GLY:N	2.43	0.52
2:bz:224:TRP:NE1	2:bz:242:VAL:HG21	2.23	0.52
2:bD:57:ARG:NE	2:bD:64:VAL:HG22	2.24	0.52
2:bD:117:LEU:HD21	2:bD:211:TYR:HA	1.90	0.52
1:bE:83:GLY:HA3	2:dd:8:LEU:CD1	2.37	0.52
2:bM:23:ALA:O	2:bM:24:LEU:HD22	2.10	0.52
2:bY:192:PHE:CE1	2:dr:191:SER:HA	2.44	0.52
1:cf:100:LYS:HD2	2:il:197:LYS:NZ	2.24	0.52
2:cn:117:LEU:HD21	2:cn:211:TYR:CA	2.40	0.52
1:ct:94:GLU:CB	2:iv:2:ALA:N	2.72	0.52
2:cA:192:PHE:CE1	2:pg:191:SER:HA	2.44	0.52
2:cG:185:GLN:OE1	2:cO:190:PRO:HG3	2.10	0.52
1:cH:99:LEU:HD21	1:cL:60:ARG:HD3	1.91	0.52
2:dc:67:ASP:OD1	1:dj:95:SER:OG	2.13	0.52
2:dG:96:LEU:HB2	2:dG:12:LEU:HD11	1.92	0.52
2:di:36:THR:O	2:di:175:THR:OG1	2.18	0.52
2:di:117:LEU:HD21	2:di:211:TYR:HA	1.90	0.52
2:dF:117:LEU:HD21	2:dF:211:TYR:CA	2.40	0.52
2:dF:282:ARG:HH11	2:pg:282:ARG:NH2	1.93	0.52
2:dK:221:PHE:CE2	2:dK:241:LYS:HE3	2.44	0.52
1:dO:59:VAL:HG12	1:dO:61:ALA:H	1.73	0.52
2:dS:192:PHE:CE1	2:oS:191:SER:HA	2.44	0.52
2:dV:50:LEU:HD11	2:dW:98:VAL:HG12	1.92	0.52
2:dY:185:GLN:OE1	2:nN:190:PRO:HG3	2.10	0.52
2:eg:192:PHE:CE1	2:nA:191:SER:HA	2.44	0.52
2:ev:2:ALA:N	1:gJ:94:GLU:CB	2.72	0.52
2:eA:36:THR:O	2:eA:175:THR:OG1	2.18	0.52
2:eK:224:TRP:HZ2	2:eK:242:VAL:HG11	1.75	0.52
2:eO:57:ARG:NE	2:eO:64:VAL:HG22	2.24	0.52
2:fB:50:LEU:HD11	2:fC:98:VAL:HG12	1.92	0.52
2:fO:224:TRP:NE1	2:fO:242:VAL:HG21	2.23	0.52
2:fQ:62:GLN:HG2	2:kG:197:LYS:HE3	1.91	0.52
1:fV:99:LEU:CD2	1:mc:102:GLU:HB2	2.33	0.52
2:gc:23:ALA:O	2:gc:24:LEU:HD22	2.10	0.52
2:gc:260:ARG:HG2	2:gc:260:ARG:O	2.09	0.52
2:gd:93:ASP:OD1	2:ig:13:LYS:NZ	2.41	0.52
1:gh:100:LYS:CG	1:if:100:LYS:HZ3	2.00	0.52
1:gv:94:GLU:CB	2:hT:2:ALA:N	2.72	0.52
2:gS:23:ALA:O	2:gS:24:LEU:HD22	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gX:94:GLU:CB	2:ih:2:ALA:N	2.72	0.52
1:gY:57:VAL:HG22	1:gY:104:CYS:H	1.75	0.52
2:he:197:LYS:NZ	1:IM:100:LYS:HD2	2.24	0.52
2:hF:191:SER:HA	2:kB:192:PHE:CE1	2.44	0.52
2:hg:12:LEU:HD11	2:mz:96:LEU:HB2	1.92	0.52
2:hg:61:GLY:CA	1:IB:103:ARG:NH1	2.70	0.52
2:hi:9:ILE:HG22	2:hi:9:ILE:O	2.08	0.52
2:hv:62:GLN:HG2	2:jb:197:LYS:HE3	1.91	0.52
2:hv:107:GLY:CA	2:hv:184:TYR:HE1	2.22	0.52
2:hw:197:LYS:HZ1	2:ja:62:GLN:HE21	1.57	0.52
1:hy:99:LEU:HD21	1:hC:60:ARG:HD3	1.91	0.52
1:hA:82:ASP:OD1	1:hA:83:GLY:N	2.41	0.52
2:hI:274:ALA:HB1	2:hI:297:VAL:HG21	1.91	0.52
1:ic:59:VAL:HG12	1:ic:61:ALA:H	1.73	0.52
2:im:57:ARG:NE	2:im:64:VAL:HG22	2.24	0.52
2:iv:221:PHE:HD1	2:iv:242:VAL:HG22	1.70	0.52
2:iM:274:ALA:HB1	2:iM:297:VAL:HG21	1.91	0.52
2:iY:12:LEU:HD11	2:kr:96:LEU:HB2	1.92	0.52
2:iY:260:ARG:HG2	2:iY:260:ARG:O	2.09	0.52
2:iZ:226:LEU:HD22	2:iZ:270:LEU:HD22	1.91	0.52
2:jb:171:TYR:OH	2:jb:175:THR:OG1	2.12	0.52
2:jl:191:SER:HA	2:lr:192:PHE:CE1	2.44	0.52
2:jC:96:LEU:HB2	2:kc:12:LEU:HD11	1.92	0.52
2:jC:274:ALA:HB1	2:jC:297:VAL:HG21	1.91	0.52
2:jE:185:GLN:OE1	2:pV:190:PRO:HG3	2.10	0.52
2:jQ:107:GLY:CA	2:jQ:184:TYR:HE1	2.22	0.52
1:jT:94:GLU:CB	2:pI:2:ALA:N	2.72	0.52
2:ka:150:THR:OG1	2:ka:220:GLY:O	2.18	0.52
2:kb:187:ARG:NH2	2:kg:192:PHE:O	2.40	0.52
2:kc:260:ARG:HG2	2:kc:260:ARG:O	2.09	0.52
2:kr:107:GLY:CA	2:kr:184:TYR:HE1	2.22	0.52
1:kv:57:VAL:HG22	1:kv:104:CYS:H	1.75	0.52
2:kD:23:ALA:O	2:kD:24:LEU:HD22	2.10	0.52
2:kE:93:ASP:OD1	2:kP:13:LYS:NZ	2.42	0.52
2:kQ:2:ALA:N	1:ne:94:GLU:CB	2.72	0.52
1:la:60:ARG:HD3	1:mQ:99:LEU:HD21	1.91	0.52
2:lh:274:ALA:HB1	2:lh:297:VAL:HG21	1.91	0.52
2:lx:57:ARG:NE	2:lx:64:VAL:HG22	2.24	0.52
1:IB:82:ASP:OD1	1:IB:83:GLY:N	2.43	0.52
2:II:50:LEU:HD11	2:IJ:98:VAL:HG12	1.92	0.52
1:IM:94:GLU:CB	2:mY:2:ALA:N	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IU:117:LEU:HD21	2:IU:211:TYR:CA	2.39	0.52
2:mn:57:ARG:NE	2:mn:64:VAL:HG22	2.24	0.52
2:mN:107:GLY:CA	2:mN:184:TYR:HE1	2.22	0.52
2:mP:14:THR:HG23	2:oq:12:LEU:HD21	1.89	0.52
2:mP:221:PHE:CE2	2:mP:241:LYS:HE3	2.44	0.52
2:mZ:224:TRP:HZ2	2:mZ:242:VAL:HG11	1.75	0.52
1:nf:57:VAL:HG22	1:nf:104:CYS:H	1.75	0.52
2:nl:192:PHE:CE1	2:oe:191:SER:HA	2.44	0.52
2:nS:173:LEU:HD11	2:nS:219:VAL:HG13	1.90	0.52
2:oc:117:LEU:HD21	2:oc:211:TYR:CA	2.40	0.52
2:oS:221:PHE:HD1	2:oS:242:VAL:HG22	1.70	0.52
2:OT:224:TRP:NE1	2:OT:242:VAL:HG21	2.23	0.52
1:pb:59:VAL:HG12	1:pb:61:ALA:H	1.73	0.52
1:pn:57:VAL:HG22	1:pn:104:CYS:H	1.74	0.52
2:pz:57:ARG:NE	2:pz:64:VAL:HG22	2.24	0.52
1:pA:100:LYS:HD2	2:pH:197:LYS:NZ	2.24	0.52
2:pL:107:GLY:CA	2:pL:184:TYR:HE1	2.22	0.52
2:pL:274:ALA:HB1	2:pL:297:VAL:HG21	1.92	0.52
2:qb:171:TYR:OH	2:qb:216:ARG:NE	2.42	0.52
3:qh:25:LEU:HD21	6:qK:82:VAL:HB	1.91	0.52
5:qy:217:HIS:HE1	6:qy:138:TRP:CH2	2.28	0.52
6:qw:122:ALA:O	6:qw:126:GLN:NE2	2.40	0.52
5:qx:285:PHE:O	5:qx:289:MET:HG3	2.10	0.52
5:qH:304:THR:HG21	5:qH:326:VAL:HG21	1.90	0.52
5:qJ:229:ILE:HD13	5:qL:232:LEU:CD1	2.39	0.52
5:qJ:304:THR:CG2	5:qJ:326:VAL:HG21	2.38	0.52
2:ag:192:PHE:CE1	2:oc:191:SER:HA	2.44	0.52
2:ai:23:ALA:O	2:ai:24:LEU:HD22	2.10	0.52
2:am:171:TYR:OH	2:am:216:ARG:NE	2.42	0.52
2:am:221:PHE:CE2	2:am:241:LYS:HE3	2.44	0.52
2:av:260:ARG:HG2	2:av:260:ARG:O	2.09	0.52
2:az:171:TYR:OH	2:az:216:ARG:NE	2.42	0.52
2:aJ:205:MET:SD	2:nc:196:THR:HG23	2.49	0.52
2:aV:190:PRO:HG3	2:iO:185:GLN:OE1	2.10	0.52
2:aV:197:LYS:NZ	1:iP:100:LYS:HD2	2.24	0.52
2:aW:2:ALA:N	1:bq:94:GLU:CB	2.72	0.52
2:aX:5:THR:HG22	1:ch:87:ASP:CB	2.39	0.52
2:aZ:274:ALA:HB1	2:aZ:297:VAL:HG21	1.91	0.52
2:bb:185:GLN:OE1	2:bj:190:PRO:HG3	2.10	0.52
2:bm:93:ASP:OD1	2:dq:13:LYS:NZ	2.42	0.52
1:bq:100:LYS:HD2	2:dq:197:LYS:NZ	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bz:205:MET:SD	2:dJ:196:THR:HG23	2.49	0.52
2:bD:171:TYR:OH	2:bD:216:ARG:NE	2.42	0.52
2:bD:221:PHE:CE2	2:bD:241:LYS:HE3	2.44	0.52
1:bE:99:LEU:HD21	1:hP:60:ARG:HD3	1.91	0.52
2:bL:104:GLN:NE2	5:qr:166:GLU:HG3	2.25	0.52
2:bM:224:TRP:HZ2	2:bM:242:VAL:HG11	1.75	0.52
2:bN:50:LEU:HD11	2:bO:98:VAL:HG12	1.92	0.52
2:bQ:57:ARG:NE	2:bQ:64:VAL:HG22	2.24	0.52
2:bQ:86:VAL:O	2:bQ:202:GLN:N	2.37	0.52
2:bZ:117:LEU:HD21	2:bZ:211:TYR:HA	1.92	0.52
2:bZ:117:LEU:HD21	2:bZ:211:TYR:CA	2.40	0.52
2:bZ:282:ARG:NH2	2:dr:282:ARG:HH11	1.93	0.52
2:co:23:ALA:O	2:co:24:LEU:HD22	2.10	0.52
2:cq:274:ALA:HB1	2:cq:297:VAL:HG21	1.91	0.52
1:cw:59:VAL:HG12	1:cw:61:ALA:H	1.73	0.52
2:cE:96:LEU:HB2	2:pJ:12:LEU:HD11	1.92	0.52
2:cF:300:THR:HG23	2:cF:303:LEU:CD2	2.40	0.52
1:cH:94:GLU:CB	2:pg:2:ALA:N	2.72	0.52
2:cP:205:MET:HE2	2:eX:63:ARG:HE	1.72	0.52
2:cR:226:LEU:HD22	2:cR:270:LEU:HD22	1.91	0.52
2:cU:209:TYR:OH	2:eW:93:ASP:OD2	2.22	0.52
1:cY:62:THR:OG1	1:cY:100:LYS:O	2.27	0.52
2:dh:197:LYS:HE3	2:fo:62:GLN:HG2	1.91	0.52
2:du:60:ILE:CG2	1:km:105:THR:HG21	2.39	0.52
2:dE:192:PHE:CE1	2:eX:191:SER:HA	2.44	0.52
2:dU:23:ALA:O	2:dU:24:LEU:HD22	2.10	0.52
2:dX:300:THR:HG23	2:dX:303:LEU:CD2	2.40	0.52
2:eN:300:THR:HG23	2:eN:303:LEU:CD2	2.40	0.52
2:eO:171:TYR:OH	2:eO:216:ARG:NE	2.42	0.52
1:fh:60:ARG:HD3	1:gJ:99:LEU:HD21	1.91	0.52
2:fk:197:LYS:NZ	1:gJ:100:LYS:HD2	2.24	0.52
2:fC:9:ILE:O	2:fC:9:ILE:HG22	2.08	0.52
2:fM:197:LYS:NZ	1:ma:100:LYS:HD2	2.24	0.52
2:fN:2:ALA:N	1:gh:94:GLU:CB	2.72	0.52
2:fO:260:ARG:HG2	2:fO:260:ARG:O	2.09	0.52
2:gb:117:LEU:HD21	2:gb:211:TYR:CA	2.40	0.52
2:go:190:PRO:HG3	2:hY:185:GLN:OE1	2.10	0.52
2:go:192:PHE:CE1	2:hT:191:SER:HA	2.44	0.52
2:gr:50:LEU:HD11	2:gs:98:VAL:HG12	1.92	0.52
1:gw:57:VAL:HG22	1:gw:104:CYS:H	1.75	0.52
2:gW:185:GLN:OE1	2:IT:190:PRO:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gX:100:LYS:HD2	2:lT:197:LYS:NZ	2.24	0.52
2:hg:224:TRP:HZ2	2:hg:242:VAL:HG11	1.75	0.52
2:hj:197:LYS:HZ1	2:oH:62:GLN:HE21	1.56	0.52
2:hw:192:PHE:CZ	2:kq:196:THR:HG21	2.42	0.52
2:hx:185:GLN:OE1	2:hF:190:PRO:HG3	2.10	0.52
2:hF:32:LEU:HD12	5:qv:179:ALA:H	1.74	0.52
2:hG:5:THR:HG22	1:kw:87:ASP:CB	2.39	0.52
2:hI:96:LEU:HB2	2:lV:12:LEU:HD11	1.92	0.52
2:hT:117:LEU:HD21	2:hT:211:TYR:HA	1.92	0.52
2:hU:23:ALA:O	2:hU:24:LEU:HD22	2.10	0.52
2:il:300:THR:HG23	2:il:303:LEU:CD2	2.40	0.52
2:iv:187:ARG:NH2	2:iA:192:PHE:O	2.40	0.52
2:ja:107:GLY:CA	2:ja:184:TYR:HE1	2.22	0.52
2:jb:173:LEU:HD11	2:jb:219:VAL:HG13	1.90	0.52
2:jm:260:ARG:O	2:jm:260:ARG:HG2	2.09	0.52
1:jv:60:ARG:HD3	1:lk:99:LEU:HD21	1.91	0.52
2:jA:260:ARG:O	2:jA:260:ARG:HG2	2.09	0.52
1:jF:100:LYS:HD2	2:pV:197:LYS:NZ	2.24	0.52
2:kf:173:LEU:HD11	2:kf:219:VAL:HG13	1.90	0.52
1:ki:57:VAL:HG22	1:ki:104:CYS:H	1.75	0.52
2:kp:260:ARG:HG2	2:kp:260:ARG:O	2.09	0.52
2:kD:5:THR:HG22	1:lO:87:ASP:CB	2.39	0.52
2:kR:81:GLU:O	2:kT:57:ARG:N	2.39	0.52
1:kX:57:VAL:HG22	1:kX:104:CYS:H	1.75	0.52
2:lf:224:TRP:HZ2	2:lf:242:VAL:HG11	1.75	0.52
2:ls:192:PHE:CZ	2:lx:196:THR:HG21	2.45	0.52
2:lt:260:ARG:O	2:lt:260:ARG:HG2	2.09	0.52
2:mj:5:THR:HG22	1:nu:87:ASP:CB	2.39	0.52
2:mj:23:ALA:O	2:mj:24:LEU:HD22	2.10	0.52
2:mj:260:ARG:O	2:mj:260:ARG:HG2	2.09	0.52
1:mp:57:VAL:HG22	1:mp:104:CYS:H	1.75	0.52
2:mw:117:LEU:HD21	2:mw:211:TYR:CA	2.40	0.52
2:mx:23:ALA:O	2:mx:24:LEU:HD22	2.10	0.52
2:mz:107:GLY:CA	2:mz:184:TYR:HE1	2.22	0.52
2:mM:226:LEU:HD22	2:mM:270:LEU:HD22	1.91	0.52
2:mZ:260:ARG:HG2	2:mZ:260:ARG:O	2.09	0.52
2:nD:107:GLY:CA	2:nD:184:TYR:HE1	2.22	0.52
2:nE:173:LEU:HD11	2:nE:219:VAL:HG13	1.90	0.52
2:od:224:TRP:HZ2	2:od:242:VAL:HG11	1.75	0.52
2:of:107:GLY:CA	2:of:184:TYR:HE1	2.22	0.52
1:om:60:ARG:HD3	1:qc:99:LEU:HD21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oH:107:GLY:CA	2:oH:184:TYR:HE1	2.22	0.52
2:oI:300:THR:HG23	2:oI:303:LEU:CD2	2.40	0.52
2:oS:117:LEU:HD21	2:oS:211:TYR:HA	1.92	0.52
2:pu:2:ALA:N	1:pO:94:GLU:CB	2.72	0.52
2:pu:117:LEU:HD21	2:pu:211:TYR:CA	2.40	0.52
2:py:300:THR:HG23	2:py:303:LEU:CD2	2.40	0.52
1:pD:62:THR:OG1	1:pD:100:LYS:O	2.27	0.52
2:pW:117:LEU:HD21	2:pW:211:TYR:CA	2.40	0.52
3:qi:65:GLY:CA	4:qo:10:GLN:HE21	2.11	0.52
5:qx:304:THR:HG21	5:qx:326:VAL:HG21	1.90	0.52
5:qx:362:ARG:CG	5:qz:115:ASP:HB3	2.39	0.52
5:qD:240:PRO:HA	5:qF:268:GLU:OE2	2.10	0.52
5:qF:285:PHE:O	5:qF:289:MET:HG3	2.10	0.52
2:ag:43:ALA:O	2:ag:44:SER:OG	2.20	0.52
2:ah:117:LEU:HD21	2:ah:211:TYR:HA	1.92	0.52
2:ai:5:THR:HG22	1:ng:87:ASP:CB	2.39	0.52
2:ai:260:ARG:HG2	2:ai:260:ARG:O	2.09	0.52
2:aj:50:LEU:HD11	2:ak:98:VAL:HG12	1.92	0.52
2:aw:50:LEU:HD11	2:ax:98:VAL:HG12	1.92	0.52
2:aH:190:PRO:HG3	2:kg:185:GLN:OE1	2.10	0.52
1:aU:100:LYS:NZ	1:iP:100:LYS:CD	2.71	0.52
2:aV:192:PHE:CE1	2:iJ:191:SER:HA	2.44	0.52
2:aY:93:ASP:OD1	2:bj:13:LYS:NZ	2.42	0.52
2:bk:117:LEU:HD21	2:bk:211:TYR:CA	2.39	0.52
2:bo:173:LEU:HD11	2:bo:219:VAL:HG13	1.90	0.52
2:bp:197:LYS:CE	1:dp:100:LYS:N	2.60	0.52
2:bz:81:GLU:O	2:bB:57:ARG:N	2.39	0.52
2:bO:274:ALA:HB1	2:bO:297:VAL:HG21	1.91	0.52
2:bP:300:THR:HG23	2:bP:303:LEU:CD2	2.40	0.52
2:bQ:239:PHE:HE1	2:bQ:294:LEU:HD22	1.70	0.52
1:bS:57:VAL:HG22	1:bS:104:CYS:H	1.75	0.52
2:ca:205:MET:SD	2:hX:196:THR:HG23	2.49	0.52
2:ce:209:TYR:OH	2:iI:93:ASP:OD2	2.22	0.52
2:ce:221:PHE:CE2	2:ce:241:LYS:HE3	2.44	0.52
1:cw:82:ASP:OD1	1:cw:83:GLY:N	2.43	0.52
2:cC:12:LEU:HD11	2:dW:96:LEU:HB2	1.92	0.52
2:cE:9:ILE:HG22	2:cE:9:ILE:O	2.08	0.52
2:cE:60:ILE:CG2	1:nL:105:THR:HG21	2.39	0.52
2:cE:107:GLY:CA	2:cE:184:TYR:HE1	2.22	0.52
1:cX:102:GLU:HB2	1:dz:99:LEU:CD2	2.33	0.52
2:dr:187:ARG:NH2	2:dw:192:PHE:O	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eb:99:LEU:CA	1:ft:102:GLU:OE1	2.28	0.52
2:eh:205:MET:HE2	2:ev:63:ARG:HE	1.72	0.52
2:eh:282:ARG:HH11	2:ev:282:ARG:NH2	1.93	0.52
2:ei:23:ALA:O	2:ei:24:LEU:HD22	2.10	0.52
2:ek:60:ILE:CG2	1:mf:105:THR:HG21	2.39	0.52
1:ep:102:GLU:HB2	1:pa:99:LEU:CD2	2.33	0.52
1:eq:59:VAL:HG12	1:eq:61:ALA:H	1.73	0.52
2:ev:117:LEU:HD21	2:ev:211:TYR:HA	1.92	0.52
2:ev:224:TRP:CZ2	2:ev:242:VAL:HG21	2.45	0.52
1:eC:57:VAL:HG22	1:eC:104:CYS:H	1.74	0.52
2:eM:60:ILE:CG2	1:gO:105:THR:HG21	2.38	0.52
1:eP:94:GLU:CB	2:gp:2:ALA:N	2.72	0.52
2:eX:117:LEU:HD21	2:eX:211:TYR:HA	1.92	0.52
2:eX:192:PHE:CZ	2:fc:196:THR:HG21	2.45	0.52
1:fe:57:VAL:HG22	1:fe:104:CYS:H	1.75	0.52
1:ff:87:ASP:CB	2:ii:5:THR:HG22	2.39	0.52
2:fl:117:LEU:HD21	2:fl:211:TYR:CA	2.39	0.52
2:fl:117:LEU:HD21	2:fl:211:TYR:HA	1.92	0.52
2:fm:260:ARG:HG2	2:fm:260:ARG:O	2.09	0.52
1:fv:60:ARG:HD3	1:ns:99:LEU:HD21	1.91	0.52
2:fz:2:ALA:N	1:mo:94:GLU:CB	2.72	0.52
2:fz:191:SER:HA	2:mh:192:PHE:CE1	2.44	0.52
2:fA:23:ALA:O	2:fA:24:LEU:HD22	2.10	0.52
2:fB:93:ASP:OD1	2:mh:13:LYS:NZ	2.42	0.52
2:fE:221:PHE:CE2	2:fE:241:LYS:HE3	2.44	0.52
1:fF:94:GLU:CB	2:nm:2:ALA:N	2.72	0.52
1:fU:57:VAL:HG22	1:fU:104:CYS:H	1.75	0.52
2:ge:60:ILE:CG2	1:mt:105:THR:HG21	2.38	0.52
2:ge:274:ALA:HB1	2:ge:297:VAL:HG21	1.91	0.52
2:gE:224:TRP:HZ2	2:gE:242:VAL:HG11	1.75	0.52
2:gG:107:GLY:CA	2:gG:184:TYR:HE1	2.22	0.52
2:gH:197:LYS:HE3	2:pj:62:GLN:HG2	1.90	0.52
2:gR:192:PHE:CZ	2:gW:196:THR:HG21	2.45	0.52
2:gS:260:ARG:O	2:gS:260:ARG:HG2	2.09	0.52
2:gU:107:GLY:CA	2:gU:184:TYR:HE1	2.22	0.52
2:hX:36:THR:O	2:hX:175:THR:OG1	2.18	0.52
2:hX:57:ARG:NE	2:hX:64:VAL:HG22	2.24	0.52
2:hG:260:ARG:O	2:hG:260:ARG:HG2	2.09	0.52
2:hJ:300:THR:HG23	2:hJ:303:LEU:CD2	2.40	0.52
2:hK:144:TYR:HH	2:hK:254:GLY:H	1.58	0.52
2:ik:274:ALA:HB1	2:ik:297:VAL:HG21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iv:117:LEU:HD21	2:iv:211:TYR:CA	2.40	0.52
2:iK:23:ALA:O	2:iK:24:LEU:HD22	2.10	0.52
1:iS:82:ASP:OD1	1:iS:83:GLY:N	2.43	0.52
2:jb:300:THR:HG23	2:jb:303:LEU:CD2	2.40	0.52
2:jc:57:ARG:NE	2:jc:64:VAL:HG22	2.24	0.52
2:jc:185:GLN:OE1	2:jk:190:PRO:HG3	2.10	0.52
1:jd:100:LYS:HD2	2:jk:197:LYS:NZ	2.24	0.52
1:jg:59:VAL:HG12	1:jg:61:ALA:H	1.73	0.52
2:jC:62:GLN:HG2	2:lK:197:LYS:HE3	1.90	0.52
2:jO:12:LEU:HD11	2:oV:96:LEU:HB2	1.92	0.52
2:jS:171:TYR:OH	2:jS:216:ARG:NE	2.42	0.52
2:jS:221:PHE:CE2	2:jS:241:LYS:HE3	2.44	0.52
2:kc:81:GLU:O	2:ke:57:ARG:N	2.39	0.52
2:kt:57:ARG:NE	2:kt:64:VAL:HG22	2.24	0.52
2:kt:171:TYR:OH	2:kt:216:ARG:NE	2.42	0.52
2:kF:18:LYS:HD3	2:kF:96:LEU:HD13	1.90	0.52
1:kI:99:LEU:HD21	1:kM:60:ARG:HD3	1.91	0.52
2:kQ:192:PHE:CZ	2:kV:196:THR:HG21	2.45	0.52
2:kQ:280:VAL:O	2:kQ:289:ASN:ND2	2.41	0.52
2:kV:86:VAL:O	2:kV:202:GLN:N	2.37	0.52
2:kV:185:GLN:OE1	2:mX:190:PRO:HG3	2.10	0.52
2:kV:209:TYR:OH	2:mX:93:ASP:OD2	2.22	0.52
1:lb:105:THR:HG21	2:np:60:ILE:CG2	2.39	0.52
2:le:224:TRP:CZ2	2:le:242:VAL:HG21	2.45	0.52
2:li:300:THR:HG23	2:li:303:LEU:CD2	2.40	0.52
2:lt:224:TRP:HZ2	2:lt:242:VAL:HG11	1.75	0.52
2:lF:192:PHE:CE1	2:mY:191:SER:HA	2.44	0.52
1:lO:82:ASP:OD1	1:lO:83:GLY:N	2.41	0.52
2:lW:50:LEU:HD11	2:lX:98:VAL:HG12	1.92	0.52
2:mi:224:TRP:CZ2	2:mi:242:VAL:HG21	2.45	0.52
2:mn:185:GLN:OE1	2:mv:190:PRO:HG3	2.10	0.52
2:mx:224:TRP:NE1	2:mx:242:VAL:HG21	2.23	0.52
2:my:50:LEU:HD11	2:mz:98:VAL:HG12	1.92	0.52
2:mK:187:ARG:NH2	2:mP:192:PHE:O	2.40	0.52
2:mM:50:LEU:HD11	2:mN:98:VAL:HG12	1.92	0.52
2:nd:171:TYR:OH	2:nd:216:ARG:NE	2.42	0.52
2:nr:221:PHE:CE2	2:nr:241:LYS:HE3	2.44	0.52
2:nB:224:TRP:HZ2	2:nB:242:VAL:HG11	1.75	0.52
2:nN:43:ALA:O	2:nN:44:SER:OG	2.20	0.52
2:nP:260:ARG:HG2	2:nP:260:ARG:O	2.09	0.52
2:nT:171:TYR:OH	2:nT:216:ARG:NE	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oc:187:ARG:NH2	2:oh:192:PHE:O	2.40	0.52
2:or:23:ALA:O	2:or:24:LEU:HD22	2.10	0.52
2:or:260:ARG:HG2	2:or:260:ARG:O	2.09	0.52
2:ot:274:ALA:HB1	2:ot:297:VAL:HG21	1.91	0.52
2:oE:117:LEU:HD21	2:oE:211:TYR:HA	1.92	0.52
2:pw:93:ASP:OD1	2:pH:13:LYS:NZ	2.42	0.52
2:pI:117:LEU:HD21	2:pI:211:TYR:HA	1.92	0.52
4:qj:174:GLN:HG2	4:qk:253:ILE:HG13	1.92	0.52
4:ql:179:THR:HG22	4:qm:247:GLY:HA2	1.91	0.52
5:qv:380:MET:SD	5:qv:384:ILE:HD11	2.50	0.52
5:qD:362:ARG:CG	5:qF:115:ASP:HB3	2.39	0.52
5:qL:285:PHE:O	5:qL:289:MET:HG3	2.10	0.52
1:ab:99:LEU:CD2	1:ng:102:GLU:HB2	2.33	0.52
2:ax:274:ALA:HB1	2:ax:297:VAL:HG21	1.91	0.52
1:bw:99:LEU:HD21	1:dj:102:GLU:OE2	2.06	0.52
2:bz:5:THR:HG22	1:eR:87:ASP:CB	2.39	0.52
1:bE:94:GLU:CB	2:dd:2:ALA:N	2.72	0.52
2:bO:96:LEU:HB2	2:gq:12:LEU:HD11	1.92	0.52
1:cw:62:THR:OG1	1:cw:100:LYS:O	2.27	0.52
2:cA:197:LYS:NZ	1:pm:100:LYS:HD2	2.24	0.52
2:cF:197:LYS:HE3	2:nR:62:GLN:HG2	1.90	0.52
2:cG:57:ARG:NE	2:cG:64:VAL:HG22	2.24	0.52
1:cH:100:LYS:HD2	2:cO:197:LYS:NZ	2.24	0.52
2:cU:171:TYR:OH	2:cU:216:ARG:NE	2.42	0.52
1:da:105:THR:HG21	2:fo:60:ILE:CG2	2.39	0.52
2:di:144:TYR:HH	2:di:254:GLY:H	1.58	0.52
2:dr:274:ALA:HB1	2:dr:297:VAL:HG21	1.92	0.52
2:dt:50:LEU:HD11	2:du:98:VAL:HG12	1.92	0.52
2:dv:171:TYR:OH	2:dv:175:THR:OG1	2.12	0.52
2:dE:190:PRO:HG3	2:fc:185:GLN:OE1	2.10	0.52
2:dF:2:ALA:N	1:pm:94:GLU:CB	2.72	0.52
2:dK:185:GLN:OE1	2:pf:190:PRO:HG3	2.10	0.52
2:dU:224:TRP:HZ2	2:dU:242:VAL:HG11	1.75	0.52
2:eh:274:ALA:HB1	2:eh:297:VAL:HG21	1.92	0.52
2:ev:274:ALA:HB1	2:ev:297:VAL:HG21	1.92	0.52
2:ew:260:ARG:HG2	2:ew:260:ARG:O	2.09	0.52
2:ey:60:ILE:CG2	1:nZ:105:THR:HG21	2.39	0.52
2:eA:57:ARG:NE	2:eA:64:VAL:HG22	2.24	0.52
1:eG:100:LYS:HE3	1:gK:100:LYS:HB2	1.92	0.52
2:eJ:192:PHE:CZ	2:eO:196:THR:HG21	2.45	0.52
2:eM:274:ALA:HB1	2:eM:297:VAL:HG21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eQ:57:VAL:HG22	1:eQ:104:CYS:H	1.75	0.52
2:eX:117:LEU:HD21	2:eX:211:TYR:CA	2.40	0.52
2:fc:237:VAL:O	2:fc:241:LYS:HD3	2.08	0.52
1:ff:82:ASP:OD1	1:ff:83:GLY:N	2.41	0.52
2:fk:190:PRO:HG3	2:gl:185:GLN:OE1	2.10	0.52
2:fl:274:ALA:HB1	2:fl:297:VAL:HG21	1.92	0.52
2:fE:171:TYR:OH	2:fE:216:ARG:NE	2.42	0.52
2:fE:185:GLN:OE1	2:mh:190:PRO:HG3	2.10	0.52
1:fG:57:VAL:HG22	1:fG:104:CYS:H	1.75	0.52
2:fN:191:SER:HA	2:ga:192:PHE:CE1	2.44	0.52
2:fN:224:TRP:CZ2	2:fN:242:VAL:HG21	2.45	0.52
2:fP:50:LEU:HD11	2:fQ:98:VAL:HG12	1.92	0.52
1:fV:82:ASP:OD1	1:fV:83:GLY:N	2.41	0.52
2:gb:117:LEU:HD21	2:gb:211:TYR:HA	1.92	0.52
2:gb:192:PHE:CZ	2:gg:196:THR:HG21	2.45	0.52
2:gc:197:LYS:HZ2	1:md:99:LEU:C	2.18	0.52
2:gc:224:TRP:NE1	2:gc:242:VAL:HG21	2.23	0.52
1:gk:82:ASP:OD1	1:gk:83:GLY:N	2.43	0.52
2:gp:192:PHE:CZ	2:gu:196:THR:HG21	2.45	0.52
2:gE:23:ALA:O	2:gE:24:LEU:HD22	2.10	0.52
2:gR:187:ARG:NH2	2:gW:192:PHE:O	2.40	0.52
2:hF:117:LEU:HD21	2:hF:211:TYR:HA	1.92	0.52
2:hF:224:TRP:CZ2	2:hF:242:VAL:HG21	2.45	0.52
1:hl:99:LEU:HD21	1:ky:60:ARG:HD3	1.91	0.52
2:hw:173:LEU:HD11	2:hw:219:VAL:HG13	1.90	0.52
2:hX:171:TYR:OH	2:hX:216:ARG:NE	2.42	0.52
2:hT:192:PHE:CZ	2:hY:196:THR:HG21	2.45	0.52
2:hU:224:TRP:HZ2	2:hU:242:VAL:HG11	1.75	0.52
2:ih:117:LEU:HD21	2:ih:211:TYR:CA	2.40	0.52
2:ii:23:ALA:O	2:ii:24:LEU:HD22	2.10	0.52
1:iS:62:THR:OG1	1:iS:100:LYS:O	2.27	0.52
2:jk:179:LEU:HD13	2:jk:209:TYR:CE2	2.45	0.52
2:jl:117:LEU:HD21	2:jl:211:TYR:HA	1.92	0.52
2:jn:226:LEU:HD22	2:jn:270:LEU:HD22	1.91	0.52
2:jy:192:PHE:CE1	2:le:191:SER:HA	2.44	0.52
2:jA:23:ALA:O	2:jA:24:LEU:HD22	2.10	0.52
1:jF:94:GLU:CB	2:le:2:ALA:N	2.72	0.52
1:jL:100:LYS:NZ	1:pO:100:LYS:CD	2.71	0.52
2:jM:13:LYS:NZ	2:pK:93:ASP:OD1	2.42	0.52
2:jN:117:LEU:HD21	2:jN:211:TYR:CA	2.40	0.52
2:kb:224:TRP:CZ2	2:kb:242:VAL:HG21	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kp:23:ALA:O	2:kp:24:LEU:HD22	2.10	0.52
1:kx:62:THR:OG1	1:kx:100:LYS:O	2.27	0.52
2:kC:191:SER:HA	2:kP:192:PHE:CE1	2.44	0.52
2:kE:50:LEU:HD11	2:kF:98:VAL:HG12	1.92	0.52
2:kF:107:GLY:CA	2:kF:184:TYR:HE1	2.22	0.52
2:kQ:117:LEU:HD21	2:kQ:211:TYR:CA	2.39	0.52
2:kQ:117:LEU:HD21	2:kQ:211:TYR:HA	1.92	0.52
2:kQ:224:TRP:CZ2	2:kQ:242:VAL:HG21	2.45	0.52
2:kR:23:ALA:O	2:kR:24:LEU:HD22	2.10	0.52
2:ld:13:LYS:NZ	2:mM:93:ASP:OD1	2.42	0.52
2:ld:197:LYS:NZ	1:mQ:100:LYS:HD2	2.24	0.52
2:le:192:PHE:CZ	2:lj:196:THR:HG21	2.45	0.52
2:lf:260:ARG:HG2	2:lf:260:ARG:O	2.09	0.52
2:lU:221:PHE:HD1	2:lU:242:VAL:HG22	1.70	0.52
2:lY:300:THR:HG23	2:lY:303:LEU:CD2	2.40	0.52
2:mw:2:ALA:N	1:oK:94:GLU:CB	2.72	0.52
2:mw:2:ALA:N	1:oK:94:GLU:HG3	2.25	0.52
2:mK:117:LEU:HD21	2:mK:211:TYR:CA	2.40	0.52
2:mL:260:ARG:O	2:mL:260:ARG:HG2	2.09	0.52
2:mO:300:THR:HG23	2:mO:303:LEU:CD2	2.40	0.52
1:mQ:94:GLU:CB	2:oq:2:ALA:N	2.72	0.52
2:nm:187:ARG:NH2	2:nr:192:PHE:O	2.40	0.52
2:nm:192:PHE:CZ	2:nr:196:THR:HG21	2.45	0.52
2:nA:117:LEU:HD21	2:nA:211:TYR:HA	1.92	0.52
2:nA:274:ALA:HB1	2:nA:297:VAL:HG21	1.92	0.52
2:nB:260:ARG:O	2:nB:260:ARG:HG2	2.09	0.52
2:nC:226:LEU:HD22	2:nC:270:LEU:HD22	1.90	0.52
2:oc:280:VAL:O	2:oc:289:ASN:ND2	2.41	0.52
2:og:300:THR:HG23	2:og:303:LEU:CD2	2.40	0.52
1:ok:102:GLU:HB2	1:oM:99:LEU:CD2	2.33	0.52
2:oq:117:LEU:HD21	2:oq:211:TYR:HA	1.92	0.52
1:ow:94:GLU:CB	2:pW:2:ALA:N	2.72	0.52
2:oE:187:ARG:NH2	2:oJ:192:PHE:O	2.40	0.52
1:oL:57:VAL:HG22	1:oL:104:CYS:H	1.74	0.52
2:oV:274:ALA:HB1	2:oV:297:VAL:HG21	1.91	0.52
2:pg:117:LEU:HD21	2:pg:211:TYR:CA	2.40	0.52
2:pg:117:LEU:HD21	2:pg:211:TYR:HA	1.92	0.52
2:pv:23:ALA:O	2:pv:24:LEU:HD22	2.10	0.52
2:pz:171:TYR:OH	2:pz:216:ARG:NE	2.42	0.52
2:pJ:23:ALA:O	2:pJ:24:LEU:HD22	2.10	0.52
2:pX:81:GLU:O	2:pZ:57:ARG:N	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:qj:179:THR:CG2	4:qk:247:GLY:CA	2.88	0.52
4:qj:247:GLY:HA2	4:qo:179:THR:HG22	1.92	0.52
5:qp:285:PHE:O	5:qp:289:MET:HG3	2.10	0.52
6:qq:112:LEU:HD23	6:qs:58:LEU:CD1	1.02	0.52
5:qx:217:HIS:HE1	6:qA:138:TRP:CH2	2.28	0.52
6:qy:122:ALA:O	6:qy:126:GLN:NE2	2.40	0.52
5:qB:240:PRO:HA	5:qD:268:GLU:OE2	2.10	0.52
5:qD:304:THR:HG21	5:qD:326:VAL:HG21	1.90	0.52
2:aI:191:SER:HA	2:iW:192:PHE:CE1	2.44	0.52
2:aJ:260:ARG:HG2	2:aJ:260:ARG:O	2.09	0.52
2:aK:226:LEU:HD22	2:aK:270:LEU:HD22	1.91	0.52
1:aS:60:ARG:HD3	1:iP:99:LEU:HD21	1.91	0.52
2:aX:23:ALA:O	2:aX:24:LEU:HD22	2.10	0.52
2:bx:190:PRO:HG3	2:di:185:GLN:OE1	2.10	0.52
2:by:2:ALA:N	1:hZ:94:GLU:CB	2.72	0.52
2:bz:23:ALA:O	2:bz:24:LEU:HD22	2.10	0.52
2:bM:61:GLY:CA	1:hB:103:ARG:NH1	2.70	0.52
2:bZ:224:TRP:CZ2	2:bZ:242:VAL:HG21	2.45	0.52
2:ca:260:ARG:HG2	2:ca:260:ARG:O	2.09	0.52
2:cd:300:THR:HG23	2:cd:303:LEU:CD2	2.40	0.52
2:cn:191:SER:HA	2:pt:192:PHE:CE1	2.44	0.52
2:cr:300:THR:HG23	2:cr:303:LEU:CD2	2.40	0.52
2:cS:107:GLY:CA	2:cS:184:TYR:HE1	2.22	0.52
2:dr:117:LEU:HD21	2:dr:211:TYR:HA	1.92	0.52
2:dr:224:TRP:CZ2	2:dr:242:VAL:HG21	2.45	0.52
2:ds:23:ALA:O	2:ds:24:LEU:HD22	2.10	0.52
2:dv:173:LEU:HD11	2:dv:219:VAL:HG13	1.90	0.52
2:dv:300:THR:HG23	2:dv:303:LEU:CD2	2.40	0.52
1:dP:60:ARG:HD3	1:oY:99:LEU:HD21	1.91	0.52
2:dT:224:TRP:CZ2	2:dT:242:VAL:HG21	2.45	0.52
1:dZ:100:LYS:CG	1:nM:100:LYS:HZ1	2.14	0.52
1:dZ:100:LYS:HD2	2:nN:197:LYS:NZ	2.24	0.52
1:eb:82:ASP:OD1	1:eb:83:GLY:N	2.41	0.52
2:ek:18:LYS:HD3	2:ek:96:LEU:HD13	1.90	0.52
2:el:197:LYS:HE3	2:ml:62:GLN:HG2	1.90	0.52
2:eu:179:LEU:HD13	2:eu:209:TYR:CE2	2.45	0.52
2:ew:205:MET:SD	2:og:196:THR:HG23	2.49	0.52
2:eJ:224:TRP:CZ2	2:eJ:242:VAL:HG21	2.45	0.52
2:eM:107:GLY:CA	2:eM:184:TYR:HE1	2.22	0.52
2:eO:221:PHE:CE2	2:eO:241:LYS:HE3	2.44	0.52
2:fn:50:LEU:HD11	2:fo:98:VAL:HG12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fn:93:ASP:OD1	2:nz:13:LYS:NZ	2.42	0.52
2:fz:192:PHE:CZ	2:fE:196:THR:HG21	2.45	0.52
2:fA:224:TRP:HZ2	2:fA:242:VAL:HG11	1.75	0.52
2:fD:173:LEU:HD11	2:fD:219:VAL:HG13	1.90	0.52
2:fM:192:PHE:CE1	2:lU:191:SER:HA	2.44	0.52
2:fQ:274:ALA:HB1	2:fQ:297:VAL:HG21	1.91	0.52
2:fS:185:GLN:OE1	2:ga:190:PRO:HG3	2.10	0.52
2:ga:150:THR:OG1	2:ga:220:GLY:O	2.18	0.52
2:gb:177:ARG:HH11	2:gb:213:VAL:HG21	1.75	0.52
2:ge:96:LEU:HB2	2:nB:12:LEU:HD11	1.92	0.52
2:go:197:LYS:NZ	1:hZ:100:LYS:HD2	2.24	0.52
2:gp:117:LEU:HD21	2:gp:211:TYR:CA	2.40	0.52
1:gX:99:LEU:HD21	1:lQ:60:ARG:HD3	1.91	0.52
2:hg:23:ALA:O	2:hg:24:LEU:HD22	2.10	0.52
2:hh:93:ASP:OD1	2:kB:13:LYS:NZ	2.42	0.52
2:hs:184:TYR:CE1	5:qB:178:PRO:N	2.78	0.52
2:ht:260:ARG:O	2:ht:260:ARG:HG2	2.09	0.52
2:hv:96:LEU:HB2	2:kR:12:LEU:HD11	1.92	0.52
2:hW:9:ILE:HG22	2:hW:9:ILE:O	2.08	0.52
2:hY:171:TYR:OH	2:hY:216:ARG:NE	2.42	0.52
1:ia:57:VAL:HG22	1:ia:104:CYS:H	1.74	0.52
2:iv:117:LEU:HD21	2:iv:211:TYR:HA	1.92	0.52
2:iz:171:TYR:OH	2:iz:175:THR:OG1	2.12	0.52
2:iJ:117:LEU:HD21	2:iJ:211:TYR:HA	1.92	0.52
2:iX:192:PHE:CZ	2:jC:196:THR:HG21	2.45	0.52
2:jl:117:LEU:HD21	2:jl:211:TYR:CA	2.40	0.52
1:ju:82:ASP:OD1	1:ju:83:GLY:N	2.43	0.52
1:jx:100:LYS:NZ	1:lk:100:LYS:CD	2.71	0.52
2:jM:197:LYS:NZ	1:pO:100:LYS:HD2	2.24	0.52
2:jN:192:PHE:CZ	2:jS:196:THR:HG21	2.45	0.52
2:jO:23:ALA:O	2:jO:24:LEU:HD22	2.10	0.52
2:kb:280:VAL:O	2:kb:289:ASN:ND2	2.42	0.52
2:kd:226:LEU:HD22	2:kd:270:LEU:HD22	1.91	0.52
1:kk:62:THR:OG1	1:kk:100:LYS:O	2.27	0.52
2:ko:43:ALA:O	2:ko:44:SER:OG	2.20	0.52
2:kP:30:THR:CG2	2:kP:298:LEU:HD13	2.40	0.52
2:kQ:274:ALA:HB1	2:kQ:297:VAL:HG21	1.92	0.52
2:ls:274:ALA:HB1	2:ls:297:VAL:HG21	1.92	0.52
2:lF:190:PRO:HG3	2:nd:185:GLN:OE1	2.10	0.52
2:lG:224:TRP:CZ2	2:lG:242:VAL:HG21	2.45	0.52
2:lG:274:ALA:HB1	2:lG:297:VAL:HG21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IM:86:SER:O	1:IM:90:LEU:N	2.38	0.52
2:IX:274:ALA:HB1	2:IX:297:VAL:HG21	1.91	0.52
1:mc:82:ASP:OD1	1:mc:83:GLY:N	2.41	0.52
2:mk:50:LEU:HD11	2:ml:98:VAL:HG12	1.92	0.52
2:ml:274:ALA:HB1	2:ml:297:VAL:HG21	1.91	0.52
1:mr:59:VAL:HG12	1:mr:61:ALA:H	1.73	0.52
2:mw:117:LEU:HD21	2:mw:211:TYR:HA	1.92	0.52
2:mw:191:SER:HA	2:oD:192:PHE:CE1	2.44	0.52
2:mw:192:PHE:CZ	2:mB:196:THR:HG21	2.45	0.52
2:mw:274:ALA:HB1	2:mw:297:VAL:HG21	1.92	0.52
2:mB:185:GLN:OE1	2:oD:190:PRO:HG3	2.10	0.52
2:mZ:23:ALA:O	2:mZ:24:LEU:HD22	2.10	0.52
2:nm:274:ALA:HB1	2:nm:297:VAL:HG21	1.92	0.52
2:nn:224:TRP:HZ2	2:nn:242:VAL:HG11	1.75	0.52
1:nJ:82:ASP:OD1	1:nJ:83:GLY:N	2.43	0.52
2:nO:192:PHE:CZ	2:nT:196:THR:HG21	2.45	0.52
2:nS:300:THR:HG23	2:nS:303:LEU:CD2	2.40	0.52
2:oq:117:LEU:HD21	2:oq:211:TYR:CA	2.40	0.52
1:oz:82:ASP:OD1	1:oz:83:GLY:N	2.43	0.52
2:oS:192:PHE:CZ	2:oX:196:THR:HG21	2.45	0.52
2:oS:274:ALA:HB1	2:oS:297:VAL:HG21	1.92	0.52
2:pI:274:ALA:HB1	2:pI:297:VAL:HG21	1.92	0.52
2:pK:226:LEU:HD22	2:pK:270:LEU:HD22	1.91	0.52
2:pM:173:LEU:HD11	2:pM:219:VAL:HG13	1.90	0.52
2:pV:179:LEU:HD13	2:pV:209:TYR:CE2	2.45	0.52
2:pX:23:ALA:O	2:pX:24:LEU:HD22	2.10	0.52
2:qb:36:THR:O	2:qb:175:THR:OG1	2.18	0.52
2:qb:117:LEU:HD21	2:qb:211:TYR:HA	1.90	0.52
3:qg:65:GLY:CA	4:qj:219:ILE:HG23	2.40	0.52
3:qg:66:GLN:CA	4:qk:194:LEU:HD12	2.38	0.52
5:qx:140:GLU:O	5:qx:151:LEU:N	2.39	0.52
5:qx:380:MET:SD	5:qx:384:ILE:HD11	2.50	0.52
5:qz:217:HIS:HE1	6:qC:138:TRP:CH2	2.28	0.52
5:qB:362:ARG:CG	5:qD:115:ASP:HB3	2.39	0.52
5:qD:53:GLU:CD	5:qF:35:HIS:CE1	2.80	0.52
5:qF:240:PRO:HA	5:qH:268:GLU:OE2	2.10	0.52
2:ag:13:LYS:NZ	2:oe:93:ASP:OD1	2.42	0.52
2:ak:96:LEU:HB2	2:mL:12:LEU:HD11	1.92	0.52
1:an:100:LYS:HD2	2:oR:197:LYS:NZ	2.24	0.52
2:ax:96:LEU:HB2	2:ds:12:LEU:HD11	1.92	0.52
1:aB:100:LYS:HB2	1:mV:100:LYS:HE3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aH:30:THR:CG2	2:aH:298:LEU:HD13	2.40	0.52
2:aI:117:LEU:HD21	2:aI:211:TYR:HA	1.92	0.52
2:aI:274:ALA:HB1	2:aI:297:VAL:HG21	1.92	0.52
2:aK:93:ASP:OD1	2:iW:13:LYS:NZ	2.42	0.52
2:aV:179:LEU:HD13	2:aV:209:TYR:CE2	2.45	0.52
2:ba:196:THR:HG23	2:pv:205:MET:SD	2.49	0.52
2:bb:171:TYR:OH	2:bb:216:ARG:NE	2.42	0.52
1:bv:105:THR:HG21	2:dI:60:ILE:CG2	2.39	0.52
2:by:117:LEU:HD21	2:by:211:TYR:HA	1.92	0.52
2:bA:196:THR:HG21	2:hX:192:PHE:CZ	2.42	0.52
2:bY:30:THR:CG2	2:bY:298:LEU:HD13	2.40	0.52
2:bY:197:LYS:NZ	1:dx:100:LYS:HD2	2.24	0.52
2:cb:196:THR:HG21	2:iN:192:PHE:CZ	2.42	0.52
1:cj:102:GLU:HG2	2:iu:62:GLN:OE1	2.02	0.52
2:cA:13:LYS:NZ	2:pi:93:ASP:OD1	2.42	0.52
2:cB:274:ALA:HB1	2:cB:297:VAL:HG21	1.92	0.52
2:cC:260:ARG:O	2:cC:260:ARG:HG2	2.09	0.52
2:cP:117:LEU:HD21	2:cP:211:TYR:HA	1.92	0.52
2:dc:192:PHE:CE1	2:eJ:191:SER:HA	2.44	0.52
1:dk:100:LYS:HB2	1:km:100:LYS:HE3	1.92	0.52
2:du:96:LEU:HB2	2:hU:12:LEU:HD11	1.92	0.52
2:dF:177:ARG:HH11	2:dF:213:VAL:HG21	1.75	0.52
2:dF:191:SER:HA	2:pf:192:PHE:CE1	2.44	0.52
2:dF:224:TRP:CZ2	2:dF:242:VAL:HG21	2.45	0.52
1:dM:57:VAL:HG22	1:dM:104:CYS:H	1.75	0.52
1:dN:82:ASP:OD1	1:dN:83:GLY:N	2.41	0.52
1:dO:62:THR:OG1	1:dO:100:LYS:O	2.27	0.52
2:dT:117:LEU:HD21	2:dT:211:TYR:HA	1.92	0.52
2:dT:191:SER:HA	2:nN:192:PHE:CE1	2.44	0.52
2:eg:190:PRO:HG3	2:nF:185:GLN:OE1	2.10	0.52
2:eh:117:LEU:HD21	2:eh:211:TYR:CA	2.40	0.52
2:em:185:GLN:OE1	2:eu:190:PRO:HG3	2.10	0.52
2:eu:30:THR:CG2	2:eu:298:LEU:HD13	2.40	0.52
2:ev:191:SER:HA	2:gC:192:PHE:CE1	2.44	0.52
2:eJ:117:LEU:HD21	2:eJ:211:TYR:CA	2.40	0.52
2:eJ:117:LEU:HD21	2:eJ:211:TYR:HA	1.92	0.52
2:eJ:274:ALA:HB1	2:eJ:297:VAL:HG21	1.92	0.52
2:eX:274:ALA:HB1	2:eX:297:VAL:HG21	1.92	0.52
2:fz:274:ALA:HB1	2:fz:297:VAL:HG21	1.92	0.52
1:fT:100:LYS:CD	1:fZ:100:LYS:NZ	2.71	0.52
2:gb:224:TRP:CZ2	2:gb:242:VAL:HG21	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gc:12:LEU:HD11	2:ml:96:LEU:HB2	1.92	0.52
1:gl:60:ARG:HD3	1:hZ:99:LEU:HD21	1.91	0.52
2:go:30:THR:CG2	2:go:298:LEU:HD13	2.40	0.52
2:gu:57:ARG:NE	2:gu:64:VAL:HG22	2.24	0.52
2:gD:117:LEU:HD21	2:gD:211:TYR:HA	1.92	0.52
2:gE:260:ARG:O	2:gE:260:ARG:HG2	2.09	0.52
1:gK:57:VAL:HG22	1:gK:104:CYS:H	1.75	0.52
2:gR:2:ALA:N	1:ma:94:GLU:CB	2.72	0.52
2:gR:117:LEU:HD21	2:gR:211:TYR:CA	2.40	0.52
2:gS:224:TRP:HZ2	2:gS:242:VAL:HG11	1.75	0.52
2:hf:274:ALA:HB1	2:hf:297:VAL:HG21	1.92	0.52
2:hh:226:LEU:HD22	2:hh:270:LEU:HD22	1.91	0.52
2:hi:274:ALA:CB	2:hi:297:VAL:HG21	2.40	0.52
1:hA:102:GLU:OE1	1:lO:99:LEU:CA	2.28	0.52
2:hS:30:THR:CG2	2:hS:298:LEU:HD13	2.40	0.52
2:hX:300:THR:HG23	2:hX:303:LEU:CD2	2.40	0.52
2:ih:224:TRP:CZ2	2:ih:242:VAL:HG21	2.45	0.52
2:ij:50:LEU:HD11	2:ik:98:VAL:HG12	1.92	0.52
1:iq:62:THR:OG1	1:iq:100:LYS:O	2.27	0.52
2:iu:192:PHE:CE1	2:jN:191:SER:HA	2.44	0.52
2:iv:177:ARG:HH11	2:iv:213:VAL:HG21	1.75	0.52
2:iv:224:TRP:CZ2	2:iv:242:VAL:HG21	2.45	0.52
1:iC:57:VAL:HG22	1:iC:104:CYS:H	1.75	0.52
2:iM:96:LEU:HB2	2:pv:12:LEU:HD11	1.92	0.52
2:iM:274:ALA:CB	2:iM:297:VAL:HG21	2.40	0.52
2:iX:274:ALA:HB1	2:iX:297:VAL:HG21	1.92	0.52
2:iY:23:ALA:O	2:iY:24:LEU:HD22	2.10	0.52
2:ja:9:ILE:HG22	2:ja:9:ILE:O	2.08	0.52
1:jd:99:LEU:HD21	1:jh:60:ARG:HD3	1.91	0.52
2:jz:117:LEU:HD21	2:jz:211:TYR:HA	1.92	0.52
2:jz:282:ARG:NH2	2:le:282:ARG:HH11	1.93	0.52
1:jF:102:GLU:CG	1:pU:99:LEU:HD23	2.19	0.52
1:jL:99:LEU:HD23	1:pO:102:GLU:CG	2.18	0.52
2:jN:117:LEU:HD21	2:jN:211:TYR:HA	1.92	0.52
2:jN:224:TRP:CZ2	2:jN:242:VAL:HG21	2.45	0.52
2:kb:274:ALA:HB1	2:kb:297:VAL:HG21	1.92	0.52
2:kD:260:ARG:HG2	2:kD:260:ARG:O	2.09	0.52
2:kV:57:ARG:NE	2:kV:64:VAL:HG22	2.24	0.52
1:lb:100:LYS:HE3	1:nf:100:LYS:HB2	1.92	0.52
2:le:117:LEU:HD21	2:le:211:TYR:HA	1.92	0.52
2:li:138:ASP:OD1	2:li:139:THR:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ll:57:VAL:HG22	1:ll:104:CYS:H	1.74	0.52
2:ls:117:LEU:HD21	2:ls:211:TYR:CA	2.40	0.52
2:ls:117:LEU:HD21	2:ls:211:TYR:HA	1.92	0.52
2:lt:23:ALA:O	2:lt:24:LEU:HD22	2.10	0.52
2:lG:117:LEU:HD21	2:lG:211:TYR:HA	1.92	0.52
2:lY:138:ASP:OD1	2:lY:139:THR:N	2.43	0.52
2:mi:177:ARG:HH11	2:mi:213:VAL:HG21	1.75	0.52
2:ml:107:GLY:CA	2:ml:184:TYR:HE1	2.22	0.52
1:mC:99:LEU:HD21	1:oA:60:ARG:HD3	1.91	0.52
1:mH:105:THR:HG21	2:oV:60:ILE:CG2	2.39	0.52
2:mJ:30:THR:CG2	2:mJ:298:LEU:HD13	2.40	0.52
2:mJ:179:LEU:HD13	2:mJ:209:TYR:CE2	2.45	0.52
2:mK:177:ARG:HH11	2:mK:213:VAL:HG21	1.75	0.52
1:mQ:94:GLU:HG3	2:oq:2:ALA:N	2.25	0.52
2:mX:179:LEU:HD13	2:mX:209:TYR:CE2	2.45	0.52
2:nF:57:ARG:NE	2:nF:64:VAL:HG22	2.24	0.52
2:nQ:50:LEU:HD11	2:nR:98:VAL:HG12	1.92	0.52
2:nQ:93:ASP:OD1	2:ob:13:LYS:NZ	2.42	0.52
2:op:179:LEU:HD13	2:op:209:TYR:CE2	2.45	0.52
2:oE:177:ARG:HH11	2:oE:213:VAL:HG21	1.75	0.52
2:oE:224:TRP:CZ2	2:oE:242:VAL:HG21	2.45	0.52
2:oS:224:TRP:CZ2	2:oS:242:VAL:HG21	2.45	0.52
2:pj:9:ILE:O	2:pj:9:ILE:HG22	2.08	0.52
2:pl:57:ARG:NE	2:pl:64:VAL:HG22	2.24	0.52
2:pu:177:ARG:HH11	2:pu:213:VAL:HG21	1.75	0.52
2:pI:44:SER:OG	2:pI:75:ILE:O	2.21	0.52
2:pW:117:LEU:HD21	2:pW:211:TYR:HA	1.92	0.52
2:pW:177:ARG:HH11	2:pW:213:VAL:HG21	1.75	0.52
3:qd:66:GLN:O	4:qn:10:GLN:NE2	2.43	0.52
3:qe:84:TYR:CZ	6:qw:20:GLU:CG	2.74	0.52
3:qf:66:GLN:HA	4:ql:8:TYR:CD2	2.44	0.52
3:qh:55:GLU:OE1	4:qj:223:ASN:CB	2.58	0.52
4:qk:179:THR:CG2	4:ql:247:GLY:CA	2.88	0.52
4:qn:179:THR:HG22	4:qo:247:GLY:HA2	1.91	0.52
5:qr:229:ILE:HD13	5:qt:232:LEU:CD1	2.39	0.52
5:qz:362:ARG:CG	5:qB:115:ASP:HB3	2.39	0.52
2:ag:197:LYS:NZ	1:oi:100:LYS:HD2	2.24	0.52
2:ah:117:LEU:HD21	2:ah:211:TYR:CA	2.40	0.52
2:ah:192:PHE:CZ	2:am:196:THR:HG21	2.45	0.52
1:an:86:SER:O	1:an:90:LEU:N	2.38	0.52
1:aC:82:ASP:OD1	1:aC:83:GLY:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aC:99:LEU:CD2	1:kK:102:GLU:HB2	2.33	0.52
1:aF:82:ASP:OD1	1:aF:83:GLY:N	2.39	0.52
2:aI:82:SER:OG	2:iX:56:LEU:HD22	2.10	0.52
2:aW:274:ALA:HB1	2:aW:297:VAL:HG21	1.92	0.52
2:aX:205:MET:SD	2:py:196:THR:HG23	2.49	0.52
2:aZ:60:ILE:CG2	1:pr:105:THR:HG21	2.39	0.52
2:bk:117:LEU:HD21	2:bk:211:TYR:HA	1.92	0.52
2:bk:274:ALA:HB1	2:bk:297:VAL:HG21	1.92	0.52
2:bl:12:LEU:HD11	2:ja:96:LEU:HB2	1.92	0.52
2:bn:96:LEU:HB2	2:kp:12:LEU:HD11	1.92	0.52
2:bx:179:LEU:HD13	2:bx:209:TYR:CE2	2.45	0.52
2:by:192:PHE:CZ	2:bD:196:THR:HG21	2.45	0.52
1:bG:82:ASP:OD1	1:bG:83:GLY:N	2.41	0.52
2:bL:197:LYS:NZ	1:hL:100:LYS:HD2	2.24	0.52
1:ct:94:GLU:HG3	2:iv:2:ALA:N	2.25	0.52
1:ct:99:LEU:HD21	1:pq:60:ARG:HD3	1.91	0.52
2:cB:192:PHE:CZ	2:cG:196:THR:HG21	2.45	0.52
2:cP:117:LEU:HD21	2:cP:211:TYR:CA	2.40	0.52
2:cT:300:THR:HG23	2:cT:303:LEU:CD2	2.40	0.52
1:dl:87:ASP:CB	2:hU:5:THR:HG22	2.39	0.52
1:do:105:THR:HG21	2:kr:60:ILE:CG2	2.39	0.52
2:dK:171:TYR:OH	2:dK:216:ARG:NE	2.42	0.52
2:dS:190:PRO:HG3	2:oX:185:GLN:OE1	2.10	0.52
2:dT:117:LEU:HD21	2:dT:211:TYR:CA	2.40	0.52
2:dX:138:ASP:OD1	2:dX:139:THR:N	2.43	0.52
2:dY:57:ARG:NE	2:dY:64:VAL:HG22	2.24	0.52
1:eb:99:LEU:CD2	1:ft:102:GLU:HB2	2.33	0.52
2:eh:117:LEU:HD21	2:eh:211:TYR:HA	1.92	0.52
1:eo:57:VAL:HG22	1:eo:104:CYS:H	1.75	0.52
1:es:100:LYS:HE3	1:nV:100:LYS:HB2	1.92	0.52
2:ev:2:ALA:N	1:gJ:94:GLU:HG3	2.25	0.52
2:ew:12:LEU:HD11	2:nR:96:LEU:HB2	1.92	0.52
2:eI:190:PRO:HG3	2:gu:185:GLN:OE1	2.10	0.52
2:eI:192:PHE:CE1	2:gp:191:SER:HA	2.44	0.52
2:eJ:187:ARG:NH2	2:eO:192:PHE:O	2.40	0.52
1:eS:82:ASP:OD1	1:eS:83:GLY:N	2.43	0.52
2:eY:260:ARG:HG2	2:eY:260:ARG:O	2.09	0.52
2:fo:274:ALA:CB	2:fo:297:VAL:HG21	2.40	0.52
2:fp:192:PHE:CZ	2:gF:196:THR:HG21	2.42	0.52
2:fq:57:ARG:NE	2:fq:64:VAL:HG22	2.24	0.52
2:fz:2:ALA:N	1:mo:94:GLU:HG3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fz:117:LEU:HD21	2:fz:211:TYR:CA	2.40	0.52
2:fz:177:ARG:HH11	2:fz:213:VAL:HG21	1.75	0.52
2:fd:192:PHE:CZ	2:no:196:THR:HG21	2.42	0.52
2:gb:2:ALA:N	1:in:94:GLU:CB	2.72	0.52
2:gb:2:ALA:N	1:in:94:GLU:HG3	2.25	0.52
2:gb:282:ARG:HH11	2:ih:282:ARG:NH2	1.94	0.52
2:ge:274:ALA:CB	2:ge:297:VAL:HG21	2.40	0.52
2:go:179:LEU:HD13	2:go:209:TYR:CE2	2.45	0.52
2:gp:177:ARG:HH11	2:gp:213:VAL:HG21	1.75	0.52
2:gp:274:ALA:HB1	2:gp:297:VAL:HG21	1.92	0.52
2:gC:179:LEU:HD13	2:gC:209:TYR:CE2	2.45	0.52
2:gI:57:ARG:NE	2:gI:64:VAL:HG22	2.24	0.52
2:gQ:179:LEU:HD13	2:gQ:209:TYR:CE2	2.45	0.52
2:gR:63:ARG:HE	2:ih:205:MET:HE2	1.72	0.52
2:gR:117:LEU:HD21	2:gR:211:TYR:HA	1.92	0.52
2:hj:138:ASP:OD1	2:hj:139:THR:N	2.43	0.52
2:hs:13:LYS:NZ	2:kq:93:ASP:OD1	2.42	0.52
2:hs:179:LEU:HD13	2:hs:209:TYR:CE2	2.45	0.52
1:hy:100:LYS:HD2	2:hF:197:LYS:NZ	2.24	0.52
2:hH:50:LEU:HD11	2:hI:98:VAL:HG12	1.92	0.52
2:hW:274:ALA:HB1	2:hW:297:VAL:HG21	1.91	0.52
1:ic:82:ASP:OD1	1:ic:83:GLY:N	2.43	0.52
2:ih:192:PHE:CZ	2:im:196:THR:HG21	2.45	0.52
2:ih:274:ALA:HB1	2:ih:297:VAL:HG21	1.92	0.52
2:ii:81:GLU:O	2:ik:57:ARG:N	2.39	0.52
2:iw:81:GLU:O	2:iy:57:ARG:N	2.39	0.52
2:iI:30:THR:CG2	2:iI:298:LEU:HD13	2.40	0.52
2:iN:300:THR:HG23	2:iN:303:LEU:CD2	2.40	0.52
2:ja:274:ALA:HB1	2:ja:297:VAL:HG21	1.91	0.52
1:je:57:VAL:HG22	1:je:104:CYS:H	1.75	0.52
2:jl:192:PHE:CZ	2:jQ:196:THR:HG21	2.45	0.52
2:jm:224:TRP:HZ2	2:jm:242:VAL:HG11	1.75	0.52
2:jn:93:ASP:OD1	2:lr:13:LYS:NZ	2.42	0.52
2:jo:274:ALA:HB1	2:jo:297:VAL:HG21	1.91	0.52
1:ju:62:THR:OG1	1:ju:100:LYS:O	2.27	0.52
1:jI:62:THR:OG1	1:jI:100:LYS:O	2.27	0.52
2:jO:260:ARG:HG2	2:jO:260:ARG:O	2.09	0.52
1:jU:57:VAL:HG22	1:jU:104:CYS:H	1.75	0.52
2:ke:274:ALA:CB	2:ke:297:VAL:HG21	2.40	0.52
2:kp:224:TRP:HZ2	2:kp:242:VAL:HG11	1.75	0.52
2:kq:50:LEU:HD11	2:kr:98:VAL:HG12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ks:300:THR:HG23	2:ks:303:LEU:CD2	2.40	0.52
2:kE:226:LEU:HD22	2:kE:270:LEU:HD22	1.91	0.52
2:kG:138:ASP:OD1	2:kG:139:THR:N	2.43	0.52
2:le:117:LEU:HD21	2:le:211:TYR:CA	2.40	0.52
2:le:274:ALA:HB1	2:le:297:VAL:HG21	1.92	0.52
2:IH:224:TRP:HZ2	2:IH:242:VAL:HG11	1.75	0.52
2:IL:57:ARG:NE	2:IL:64:VAL:HG22	2.24	0.52
2:IV:224:TRP:HZ2	2:IV:242:VAL:HG11	1.75	0.52
2:ml:274:ALA:CB	2:ml:297:VAL:HG21	2.40	0.52
2:mN:62:GLN:HG2	2:oW:197:LYS:HE3	1.91	0.52
1:nt:57:VAL:HG22	1:nt:104:CYS:H	1.75	0.52
2:nA:224:TRP:CZ2	2:nA:242:VAL:HG21	2.45	0.52
2:nB:23:ALA:O	2:nB:24:LEU:HD22	2.10	0.52
2:nE:300:THR:HG23	2:nE:303:LEU:CD2	2.40	0.52
2:nR:274:ALA:CB	2:nR:297:VAL:HG21	2.40	0.52
2:of:274:ALA:HB1	2:of:297:VAL:HG21	1.91	0.52
2:op:30:THR:CG2	2:op:298:LEU:HD13	2.40	0.52
2:or:224:TRP:HZ2	2:or:242:VAL:HG11	1.75	0.52
2:ot:96:LEU:HB2	2:oT:12:LEU:HD11	1.92	0.52
2:ot:274:ALA:CB	2:ot:297:VAL:HG21	2.40	0.52
2:ou:138:ASP:OD1	2:ou:139:THR:N	2.43	0.52
2:oF:23:ALA:O	2:oF:24:LEU:HD22	2.10	0.52
2:oI:138:ASP:OD1	2:oI:139:THR:N	2.43	0.52
2:oU:50:LEU:HD11	2:oV:98:VAL:HG12	1.92	0.52
2:pg:274:ALA:HB1	2:pg:297:VAL:HG21	1.92	0.52
2:pu:192:PHE:CZ	2:pz:196:THR:HG21	2.45	0.52
2:pv:224:TRP:NE1	2:pv:242:VAL:HG21	2.23	0.52
2:py:171:TYR:OH	2:py:175:THR:OG1	2.12	0.52
2:pz:185:GLN:OE1	2:pH:190:PRO:HG3	2.10	0.52
2:pJ:224:TRP:HZ2	2:pJ:242:VAL:HG11	1.75	0.52
3:qd:9:PHE:O	3:qe:95:ARG:NH2	2.43	0.52
3:qe:61:ASP:CA	4:qm:33:SER:HB3	1.90	0.52
3:qh:64:GLY:O	4:qo:219:ILE:HG22	2.09	0.52
4:qm:174:GLN:HG2	4:qn:253:ILE:HG13	1.92	0.52
4:qm:179:THR:HG22	4:qn:247:GLY:HA2	1.91	0.52
4:qm:179:THR:CG2	4:qn:247:GLY:CA	2.88	0.52
4:qm:214:GLN:O	4:qn:38:GLN:CG	2.57	0.52
5:qt:217:HIS:HE1	6:qw:138:TRP:CH2	2.28	0.52
5:qt:380:MET:SD	5:qt:384:ILE:HD11	2.50	0.52
5:qz:240:PRO:HA	5:qB:268:GLU:OE2	2.10	0.52
5:qz:380:MET:SD	5:qz:384:ILE:HD11	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qB:304:THR:HG21	5:qB:326:VAL:HG21	1.90	0.52
5:qH:217:HIS:HE1	6:qK:138:TRP:CH2	2.28	0.52
1:ab:82:ASP:OD1	1:ab:83:GLY:N	2.41	0.52
1:ad:60:ARG:HD3	1:oi:99:LEU:HD21	1.91	0.52
2:ag:62:GLN:OE1	1:oO:102:GLU:CD	2.53	0.52
1:an:100:LYS:CD	1:oQ:100:LYS:NZ	2.71	0.52
1:as:100:LYS:HE3	1:gi:100:LYS:HB2	1.92	0.52
2:au:179:LEU:HD13	2:au:209:TYR:CE2	2.45	0.52
2:aJ:23:ALA:O	2:aJ:24:LEU:HD22	2.10	0.52
1:aS:100:LYS:H	2:iJ:197:LYS:HE2	0.69	0.52
2:aW:177:ARG:HH11	2:aW:213:VAL:HG21	1.75	0.52
2:bk:2:ALA:N	1:dx:94:GLU:HG3	2.25	0.52
2:bl:23:ALA:O	2:bl:24:LEU:HD22	2.10	0.52
2:bm:226:LEU:HD22	2:bm:270:LEU:HD22	1.91	0.52
1:br:57:VAL:HG22	1:br:104:CYS:H	1.75	0.52
1:bs:99:LEU:CD2	1:eR:102:GLU:HB2	2.33	0.52
2:by:197:LYS:HE2	1:hP:100:LYS:H	0.69	0.52
1:bE:100:LYS:CD	1:hR:100:LYS:NZ	2.71	0.52
2:bM:260:ARG:O	2:bM:260:ARG:HG2	2.09	0.52
2:bO:274:ALA:CB	2:bO:297:VAL:HG21	2.40	0.52
2:bP:192:PHE:CZ	2:hH:196:THR:HG21	2.42	0.52
2:bY:13:LYS:NZ	2:dt:93:ASP:OD1	2.41	0.52
2:cc:96:LEU:HB2	2:eY:12:LEU:HD11	1.92	0.52
2:cc:278:VAL:O	2:cc:278:VAL:HG23	2.10	0.52
1:cg:57:VAL:HG22	1:cg:104:CYS:H	1.75	0.52
2:co:224:TRP:HZ2	2:co:242:VAL:HG11	1.75	0.52
2:cD:50:LEU:HD11	2:cE:98:VAL:HG12	1.92	0.52
1:cJ:99:LEU:CD2	1:po:102:GLU:HB2	2.33	0.52
2:cO:179:LEU:HD13	2:cO:209:TYR:CE2	2.45	0.52
2:cR:93:ASP:OD1	2:eW:13:LYS:NZ	2.42	0.52
2:dd:192:PHE:CZ	2:di:196:THR:HG21	2.45	0.52
2:dq:179:LEU:HD13	2:dq:209:TYR:CE2	2.45	0.52
2:dw:171:TYR:OH	2:dw:216:ARG:NE	2.42	0.52
1:dy:57:VAL:HG22	1:dy:104:CYS:H	1.75	0.52
1:dA:62:THR:OG1	1:dA:100:LYS:O	2.27	0.52
2:dF:274:ALA:HB1	2:dF:297:VAL:HG21	1.92	0.52
2:dI:96:LEU:HB2	2:gE:12:LEU:HD11	1.92	0.52
2:dJ:173:LEU:HD11	2:dJ:219:VAL:HG13	1.90	0.52
2:dT:177:ARG:HH11	2:dT:213:VAL:HG21	1.75	0.52
2:dU:12:LEU:HD11	2:pL:96:LEU:HB2	1.92	0.52
2:dY:171:TYR:OH	2:dY:216:ARG:NE	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ea:57:VAL:HG22	1:ea:104:CYS:H	1.75	0.52
2:eg:30:THR:CG2	2:eg:298:LEU:HD13	2.40	0.52
2:em:36:THR:O	2:em:175:THR:OG1	2.18	0.52
1:en:99:LEU:HD21	1:er:60:ARG:HD3	1.91	0.52
1:eq:62:THR:OG1	1:eq:100:LYS:O	2.27	0.52
2:eI:179:LEU:HD13	2:eI:209:TYR:CE2	2.45	0.52
2:eM:274:ALA:CB	2:eM:297:VAL:HG21	2.40	0.52
2:eN:138:ASP:OD1	2:eN:139:THR:N	2.43	0.52
2:eN:197:LYS:HE3	2:gU:62:GLN:HG2	1.90	0.52
2:eW:179:LEU:HD13	2:eW:209:TYR:CE2	2.45	0.52
2:fa:274:ALA:CB	2:fa:297:VAL:HG21	2.40	0.52
1:ff:105:THR:CB	2:ij:60:ILE:HG12	2.40	0.52
2:fl:224:TRP:CZ2	2:fl:242:VAL:HG21	2.45	0.52
2:fm:61:GLY:CA	1:gy:103:ARG:NH1	2.70	0.52
2:fp:300:THR:HG23	2:fp:303:LEU:CD2	2.40	0.52
1:fr:94:GLU:HG3	2:gD:2:ALA:N	2.25	0.52
1:fJ:60:ARG:HD3	1:ma:99:LEU:HD21	1.91	0.52
2:fO:23:ALA:O	2:fO:24:LEU:HD22	2.10	0.52
2:gb:191:SER:HA	2:ig:192:PHE:CE1	2.44	0.52
2:gb:205:MET:HE2	2:ih:63:ARG:HE	1.72	0.52
1:gh:99:LEU:HD21	1:id:60:ARG:HD3	1.91	0.52
2:gI:171:TYR:OH	2:gI:216:ARG:NE	2.42	0.52
1:gN:100:LYS:H	2:ih:197:LYS:HE2	0.69	0.52
2:gR:224:TRP:CZ2	2:gR:242:VAL:HG21	2.45	0.52
2:gW:57:ARG:NE	2:gW:64:VAL:HG22	2.24	0.52
1:gY:100:LYS:HB2	1:oB:100:LYS:HE3	1.92	0.52
2:he:190:PRO:HG3	2:IL:185:GLN:OE1	2.10	0.52
2:hF:2:ALA:N	1:kI:94:GLU:CB	2.72	0.52
2:hu:50:LEU:HD11	2:hv:98:VAL:HG12	1.92	0.52
2:hG:224:TRP:HZ2	2:hG:242:VAL:HG11	1.75	0.52
2:hS:179:LEU:HD13	2:hS:209:TYR:CE2	2.45	0.52
2:hV:226:LEU:HD22	2:hV:270:LEU:HD22	1.91	0.52
2:ih:117:LEU:HD21	2:ih:211:TYR:HA	1.92	0.52
2:ih:177:ARG:HH11	2:ih:213:VAL:HG21	1.75	0.52
2:ik:274:ALA:CB	2:ik:297:VAL:HG21	2.40	0.52
1:iB:94:GLU:HG3	2:jN:2:ALA:N	2.25	0.52
2:iJ:274:ALA:HB1	2:iJ:297:VAL:HG21	1.92	0.52
2:iW:179:LEU:HD13	2:iW:209:TYR:CE2	2.45	0.52
2:jl:2:ALA:N	1:ly:94:GLU:HG3	2.25	0.52
2:jl:82:SER:OG	2:ls:56:LEU:HD22	2.11	0.52
2:jl:177:ARG:HH11	2:jl:213:VAL:HG21	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jm:23:ALA:O	2:jm:24:LEU:HD22	2.10	0.52
2:jo:107:GLY:CA	2:jo:184:TYR:HE1	2.22	0.52
2:jz:82:SER:OG	2:pW:56:LEU:HD22	2.11	0.52
1:jF:99:LEU:HD21	1:pS:60:ARG:HD3	1.91	0.52
1:jH:87:ASP:CB	2:or:5:THR:HG22	2.39	0.52
2:jN:274:ALA:HB1	2:jN:297:VAL:HG21	1.92	0.52
2:jO:61:GLY:HA3	1:pD:103:ARG:HG3	1.92	0.52
2:jR:300:THR:HG23	2:jR:303:LEU:CD2	2.40	0.52
2:kb:177:ARG:HH11	2:kb:213:VAL:HG21	1.75	0.52
2:kC:274:ALA:HB1	2:kC:297:VAL:HG21	1.92	0.52
2:ld:192:PHE:CE1	2:mK:191:SER:HA	2.44	0.52
2:lG:177:ARG:HH11	2:lG:213:VAL:HG21	1.75	0.52
2:lH:260:ARG:O	2:lH:260:ARG:HG2	2.09	0.52
2:lK:300:THR:HG23	2:lK:303:LEU:CD2	2.40	0.52
2:lU:224:TRP:CZ2	2:lU:242:VAL:HG21	2.45	0.52
2:lU:280:VAL:O	2:lU:289:ASN:ND2	2.41	0.52
2:lY:186:GLU:OE1	2:lY:186:GLU:N	2.43	0.52
2:mh:30:THR:CG2	2:mh:298:LEU:HD13	2.40	0.52
2:mm:138:ASP:OD1	2:mm:139:THR:N	2.43	0.52
1:mq:82:ASP:OD1	1:mq:83:GLY:N	2.41	0.52
2:mx:260:ARG:O	2:mx:260:ARG:HG2	2.09	0.52
2:mz:18:LYS:HD3	2:mz:96:LEU:HD13	1.90	0.52
2:mA:138:ASP:OD1	2:mA:139:THR:N	2.43	0.52
1:mI:99:LEU:HD23	1:ow:102:GLU:CG	2.19	0.52
2:mK:224:TRP:CZ2	2:mK:242:VAL:HG21	2.45	0.52
2:mL:224:TRP:HZ2	2:mL:242:VAL:HG11	1.75	0.52
2:mY:192:PHE:CZ	2:nd:196:THR:HG21	2.45	0.52
1:ni:60:ARG:HD3	1:oK:99:LEU:HD21	1.91	0.52
2:nm:117:LEU:HD21	2:nm:211:TYR:CA	2.40	0.52
2:np:107:GLY:CA	2:np:184:TYR:HE1	2.22	0.52
2:nq:138:ASP:OD1	2:nq:139:THR:N	2.43	0.52
2:nz:30:THR:CG2	2:nz:298:LEU:HD13	2.40	0.52
2:nN:179:LEU:HD13	2:nN:209:TYR:CE2	2.45	0.52
2:nO:224:TRP:CZ2	2:nO:242:VAL:HG21	2.45	0.52
2:nO:274:ALA:HB1	2:nO:297:VAL:HG21	1.92	0.52
2:nS:171:TYR:OH	2:nS:175:THR:OG1	2.12	0.52
2:oc:177:ARG:HH11	2:oc:213:VAL:HG21	1.75	0.52
2:oc:192:PHE:CZ	2:oh:196:THR:HG21	2.45	0.52
2:od:260:ARG:O	2:od:260:ARG:HG2	2.09	0.52
2:og:192:PHE:CZ	2:ov:196:THR:HG21	2.45	0.52
2:oe:274:ALA:HB1	2:oe:297:VAL:HG21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oH:274:ALA:CB	2:oH:297:VAL:HG21	2.40	0.52
2:ph:23:ALA:O	2:ph:24:LEU:HD22	2.10	0.52
2:pi:226:LEU:HD22	2:pi:270:LEU:HD22	1.91	0.52
2:pt:179:LEU:HD13	2:pt:209:TYR:CE2	2.45	0.52
2:pI:280:VAL:O	2:pI:289:ASN:ND2	2.42	0.52
2:pW:192:PHE:CZ	2:qb:196:THR:HG21	2.45	0.52
3:qe:63:GLN:O	4:qm:33:SER:O	2.27	0.52
3:qe:66:GLN:O	4:qm:10:GLN:NE2	2.44	0.52
5:qr:285:PHE:O	5:qr:289:MET:HG3	2.10	0.52
5:qv:96:ARG:CD	5:qx:114:LEU:CD2	2.81	0.52
5:qx:229:ILE:HD13	5:qz:232:LEU:CD1	2.39	0.52
6:qA:112:LEU:CD2	6:qC:58:LEU:HD13	0.62	0.52
5:qD:285:PHE:O	5:qD:289:MET:HG3	2.10	0.52
5:qH:285:PHE:O	5:qH:289:MET:HG3	2.10	0.52
2:au:190:PRO:HG3	2:bQ:185:GLN:OE1	2.10	0.51
2:av:23:ALA:O	2:av:24:LEU:HD22	2.10	0.51
2:av:224:TRP:HZ2	2:av:242:VAL:HG11	1.75	0.51
2:ax:274:ALA:CB	2:ax:297:VAL:HG21	2.40	0.51
2:aW:56:LEU:HD22	2:iJ:82:SER:OG	2.11	0.51
1:bf:103:ARG:HG3	2:ds:61:GLY:HA3	1.92	0.51
2:bk:280:VAL:O	2:bk:289:ASN:ND2	2.41	0.51
2:bn:274:ALA:CB	2:bn:297:VAL:HG21	2.40	0.51
2:bp:36:THR:O	2:bp:175:THR:OG1	2.18	0.51
2:by:177:ARG:HH11	2:by:213:VAL:HG21	1.75	0.51
2:bN:60:ILE:HG12	1:gL:105:THR:CB	2.41	0.51
2:bP:186:GLU:N	2:bP:186:GLU:OE1	2.44	0.51
2:bQ:107:GLY:C	5:qp:176:ASN:ND2	2.65	0.51
2:cn:197:LYS:HE2	1:pq:100:LYS:H	0.68	0.51
2:cn:224:TRP:CZ2	2:cn:242:VAL:HG21	2.45	0.51
2:cs:185:GLN:OE1	2:pt:190:PRO:HG3	2.10	0.51
2:cs:209:TYR:OH	2:pt:93:ASP:OD2	2.22	0.51
2:cB:2:ALA:N	1:cV:94:GLU:HG3	2.25	0.51
2:cB:117:LEU:HD21	2:cB:211:TYR:CA	2.40	0.51
2:cB:197:LYS:HE2	1:cL:100:LYS:H	0.68	0.51
2:cB:224:TRP:CZ2	2:cB:242:VAL:HG21	2.45	0.51
1:cK:103:ARG:HG3	2:eY:61:GLY:HA3	1.93	0.51
2:cP:192:PHE:CZ	2:cU:196:THR:HG21	2.45	0.51
2:cQ:224:TRP:HZ2	2:cQ:242:VAL:HG11	1.75	0.51
2:dc:179:LEU:HD13	2:dc:209:TYR:CE2	2.45	0.51
2:dd:117:LEU:HD21	2:dd:211:TYR:HA	1.92	0.51
2:dr:192:PHE:CZ	2:dw:196:THR:HG21	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dF:2:ALA:N	1:pm:94:GLU:HG3	2.25	0.51
1:dQ:100:LYS:HE3	1:jG:100:LYS:HB2	1.92	0.51
2:eh:82:SER:OG	2:ev:56:LEU:HD22	2.10	0.51
2:eh:192:PHE:CZ	2:em:196:THR:HG21	2.45	0.51
2:ej:50:LEU:HD11	2:ek:98:VAL:HG12	1.92	0.51
2:ey:278:VAL:O	2:ey:278:VAL:HG23	2.10	0.51
2:eA:185:GLN:OE1	2:gC:190:PRO:HG3	2.10	0.51
2:eK:23:ALA:O	2:eK:24:LEU:HD22	2.10	0.51
2:eX:177:ARG:HH11	2:eX:213:VAL:HG21	1.75	0.51
2:eY:23:ALA:O	2:eY:24:LEU:HD22	2.10	0.51
2:eZ:50:LEU:HD11	2:fa:98:VAL:HG12	1.92	0.51
2:fl:63:ARG:HE	2:gD:205:MET:HE2	1.72	0.51
2:fm:224:TRP:HZ2	2:fm:242:VAL:HG11	1.75	0.51
2:fo:278:VAL:O	2:fo:278:VAL:HG23	2.11	0.51
2:fp:138:ASP:OD1	2:fp:139:THR:N	2.43	0.51
2:fq:185:GLN:OE1	2:nz:190:PRO:HG3	2.10	0.51
1:ft:99:LEU:CA	1:nW:102:GLU:OE1	2.28	0.51
2:fy:179:LEU:HD13	2:fy:209:TYR:CE2	2.45	0.51
2:fA:81:GLU:O	2:fC:57:ARG:N	2.39	0.51
2:fD:138:ASP:OD1	2:fD:139:THR:N	2.43	0.51
2:fE:57:ARG:NE	2:fE:64:VAL:HG22	2.24	0.51
2:fN:82:SER:OG	2:gb:56:LEU:HD22	2.10	0.51
2:fN:117:LEU:HD21	2:fN:211:TYR:HA	1.92	0.51
2:fN:274:ALA:HB1	2:fN:297:VAL:HG21	1.92	0.51
2:fQ:96:LEU:HB2	2:mx:12:LEU:HD11	1.92	0.51
1:fT:94:GLU:HG3	2:lU:2:ALA:N	2.25	0.51
1:fW:62:THR:OG1	1:fW:100:LYS:O	2.27	0.51
2:ga:179:LEU:HD13	2:ga:209:TYR:CE2	2.45	0.51
2:gb:274:ALA:HB1	2:gb:297:VAL:HG21	1.92	0.51
2:gg:36:THR:O	2:gg:175:THR:OG1	2.18	0.51
2:gp:224:TRP:CZ2	2:gp:242:VAL:HG21	2.45	0.51
2:gq:23:ALA:O	2:gq:24:LEU:HD22	2.10	0.51
2:gq:224:TRP:HZ2	2:gq:242:VAL:HG11	1.75	0.51
2:gD:177:ARG:HH11	2:gD:213:VAL:HG21	1.75	0.51
2:gR:56:LEU:HD22	2:ih:82:SER:OG	2.10	0.51
2:gR:274:ALA:HB1	2:gR:297:VAL:HG21	1.92	0.51
2:gV:192:PHE:CZ	2:ij:196:THR:HG21	2.42	0.51
2:gV:300:THR:HG23	2:gV:303:LEU:CD2	2.40	0.51
2:hh:60:ILE:HG12	1:mq:105:THR:CB	2.41	0.51
1:hz:100:LYS:HB2	1:kN:100:LYS:HE3	1.92	0.51
2:hI:274:ALA:CB	2:hI:297:VAL:HG21	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hN:82:ASP:OD1	1:hN:83:GLY:N	2.41	0.51
2:hT:177:ARG:HH11	2:hT:213:VAL:HG21	1.75	0.51
2:hT:224:TRP:CZ2	2:hT:242:VAL:HG21	2.45	0.51
2:ik:107:GLY:CA	2:ik:184:TYR:HE1	2.22	0.51
1:iq:82:ASP:OD1	1:iq:83:GLY:N	2.43	0.51
2:iy:96:LEU:HB2	2:lt:12:LEU:HD11	1.92	0.51
2:iz:186:GLU:OE1	2:iz:186:GLU:N	2.44	0.51
2:jk:30:THR:CG2	2:jk:298:LEU:HD13	2.40	0.51
2:jp:186:GLU:N	2:jp:186:GLU:OE1	2.44	0.51
2:jz:56:LEU:HD22	2:le:82:SER:OG	2.10	0.51
2:jB:50:LEU:HD11	2:jC:98:VAL:HG12	1.92	0.51
2:jC:274:ALA:CB	2:jC:297:VAL:HG21	2.40	0.51
2:jD:197:LYS:HE3	2:IJ:62:GLN:HG2	1.91	0.51
2:jD:300:THR:HG23	2:jD:303:LEU:CD2	2.40	0.51
2:jE:36:THR:O	2:jE:175:THR:OG1	2.18	0.51
1:jJ:100:LYS:H	2:pI:197:LYS:HE2	0.68	0.51
2:jM:179:LEU:HD13	2:jM:209:TYR:CE2	2.45	0.51
2:jR:186:GLU:N	2:jR:186:GLU:OE1	2.43	0.51
2:kc:224:TRP:HZ2	2:kc:242:VAL:HG11	1.75	0.51
2:kf:138:ASP:OD1	2:kf:139:THR:N	2.43	0.51
1:kk:82:ASP:OD1	1:kk:83:GLY:N	2.43	0.51
2:kC:117:LEU:HD21	2:kC:211:TYR:CA	2.40	0.51
2:kC:224:TRP:CZ2	2:kC:242:VAL:HG21	2.45	0.51
1:kI:102:GLU:OE2	1:kO:99:LEU:HG	1.74	0.51
2:ld:30:THR:CG2	2:ld:298:LEU:HD13	2.40	0.51
2:ls:141:HIS:HE2	2:ls:150:THR:HG1	1.50	0.51
2:lv:278:VAL:O	2:lv:278:VAL:HG23	2.11	0.51
1:lA:105:THR:CB	2:oG:60:ILE:HG12	2.41	0.51
2:lG:117:LEU:HD21	2:lG:211:TYR:CA	2.40	0.51
2:lX:9:ILE:HG22	2:lX:9:ILE:O	2.08	0.51
2:mj:81:GLU:O	2:ml:57:ARG:N	2.39	0.51
1:mo:100:LYS:CD	1:mu:100:LYS:NZ	2.71	0.51
2:mY:177:ARG:HH11	2:mY:213:VAL:HG21	1.75	0.51
2:mY:224:TRP:CZ2	2:mY:242:VAL:HG21	2.45	0.51
2:nm:117:LEU:HD21	2:nm:211:TYR:HA	1.92	0.51
2:nA:177:ARG:HH11	2:nA:213:VAL:HG21	1.75	0.51
2:nD:274:ALA:CB	2:nD:297:VAL:HG21	2.40	0.51
2:nE:138:ASP:OD1	2:nE:139:THR:N	2.43	0.51
2:os:226:LEU:HD22	2:os:270:LEU:HD22	1.91	0.51
2:ot:278:VAL:O	2:ot:278:VAL:HG23	2.11	0.51
2:ou:300:THR:HG23	2:ou:303:LEU:CD2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oE:192:PHE:CZ	2:oJ:196:THR:HG21	2.45	0.51
2:oR:179:LEU:HD13	2:oR:209:TYR:CE2	2.45	0.51
2:oT:224:TRP:HZ2	2:oT:242:VAL:HG11	1.75	0.51
2:oW:300:THR:HG23	2:oW:303:LEU:CD2	2.40	0.51
2:pu:197:LYS:HE2	1:pE:100:LYS:H	0.69	0.51
2:pH:179:LEU:HD13	2:pH:209:TYR:CE2	2.45	0.51
4:qj:247:GLY:CA	4:qo:179:THR:CG2	2.88	0.51
4:qk:174:GLN:HG2	4:ql:253:ILE:HG13	1.92	0.51
4:qn:174:GLN:HG2	4:qo:253:ILE:HG13	1.92	0.51
5:qp:240:PRO:HA	5:qr:268:GLU:OE2	2.10	0.51
5:qp:319:LEU:CD1	5:qL:317:PHE:HZ	2.18	0.51
5:qr:217:HIS:HE1	6:qu:138:TRP:CH2	2.28	0.51
5:qB:380:MET:SD	5:qB:384:ILE:HD11	2.50	0.51
5:qD:236:LEU:HD21	5:qF:266:ILE:HG12	1.93	0.51
5:qF:380:MET:SD	5:qF:384:ILE:HD11	2.50	0.51
5:qH:207:ARG:NE	5:qJ:69:GLU:OE2	2.43	0.51
1:aa:100:LYS:HB2	1:fw:100:LYS:HE3	1.92	0.51
2:ag:30:THR:CG2	2:ag:298:LEU:HD13	2.40	0.51
2:ah:56:LEU:HD22	2:oc:82:SER:OG	2.10	0.51
2:aj:60:ILE:HG12	1:ng:105:THR:CB	2.41	0.51
1:ao:57:VAL:HG22	1:ao:104:CYS:H	1.75	0.51
1:ar:60:ARG:HD3	1:bR:99:LEU:HD21	1.91	0.51
2:ax:278:VAL:O	2:ax:278:VAL:HG23	2.11	0.51
2:ay:186:GLU:N	2:ay:186:GLU:OE1	2.44	0.51
2:az:185:GLN:OE1	2:ko:190:PRO:HG3	2.10	0.51
1:aC:105:THR:CB	2:hu:60:ILE:HG12	2.41	0.51
2:aI:56:LEU:HD22	2:kb:82:SER:OG	2.10	0.51
2:aI:224:TRP:CZ2	2:aI:242:VAL:HG21	2.45	0.51
2:aW:192:PHE:CZ	2:bb:196:THR:HG21	2.45	0.51
2:aW:224:TRP:CZ2	2:aW:242:VAL:HG21	2.45	0.51
2:aX:12:LEU:HD11	2:cq:96:LEU:HB2	1.92	0.51
2:aY:196:THR:HG21	2:bo:192:PHE:CZ	2.42	0.51
2:aZ:274:ALA:CB	2:aZ:297:VAL:HG21	2.40	0.51
1:be:105:THR:CB	2:kq:60:ILE:HG12	2.41	0.51
2:bk:197:LYS:HE2	1:dn:100:LYS:H	0.68	0.51
1:bw:100:LYS:NZ	1:dj:100:LYS:CD	2.71	0.51
2:bA:50:LEU:HD11	2:bB:98:VAL:HG12	1.92	0.51
2:bC:186:GLU:N	2:bC:186:GLU:OE1	2.44	0.51
1:bE:94:GLU:HG3	2:dd:2:ALA:N	2.25	0.51
2:bL:30:THR:CG2	2:bL:298:LEU:HD13	2.40	0.51
1:bW:105:THR:HG21	2:hW:60:ILE:CG2	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bY:179:LEU:HD13	2:bY:209:TYR:CE2	2.45	0.51
1:ci:82:ASP:OD1	1:ci:83:GLY:N	2.43	0.51
2:cn:2:ALA:N	1:pA:94:GLU:HG3	2.25	0.51
2:cn:192:PHE:CZ	2:cs:196:THR:HG21	2.45	0.51
2:cn:282:ARG:NH2	2:iv:282:ARG:HH11	1.93	0.51
2:cA:190:PRO:HG3	2:pl:185:GLN:OE1	2.10	0.51
2:cB:56:LEU:HD22	2:pg:82:SER:OG	2.10	0.51
2:cB:191:SER:HA	2:cO:192:PHE:CE1	2.44	0.51
2:cE:274:ALA:HB1	2:cE:297:VAL:HG21	1.91	0.51
2:cQ:260:ARG:O	2:cQ:260:ARG:HG2	2.09	0.51
2:de:23:ALA:O	2:de:24:LEU:HD22	2.10	0.51
2:df:60:ILE:HG12	1:gx:105:THR:CB	2.41	0.51
2:dq:30:THR:CG2	2:dq:298:LEU:HD13	2.40	0.51
2:dr:117:LEU:HD21	2:dr:211:TYR:CA	2.40	0.51
2:du:62:GLN:HG2	2:ks:197:LYS:HE3	1.91	0.51
2:dG:224:TRP:HZ2	2:dG:242:VAL:HG11	1.75	0.51
1:dL:100:LYS:HD2	2:pf:197:LYS:NZ	2.24	0.51
2:dW:107:GLY:CA	2:dW:184:TYR:HE1	2.22	0.51
2:dX:197:LYS:HE3	2:jQ:62:GLN:HG2	1.91	0.51
2:eh:56:LEU:HD22	2:nA:82:SER:OG	2.11	0.51
2:ej:226:LEU:HD22	2:ej:270:LEU:HD22	1.91	0.51
2:el:138:ASP:OD1	2:el:139:THR:N	2.43	0.51
1:es:105:THR:HG21	2:of:60:ILE:CG2	2.39	0.51
2:eu:62:GLN:OE1	1:gz:102:GLU:CD	2.53	0.51
2:ey:274:ALA:HB1	2:ey:297:VAL:HG21	1.91	0.51
2:ez:186:GLU:N	2:ez:186:GLU:OE1	2.44	0.51
1:eF:100:LYS:H	2:gp:197:LYS:HE2	0.69	0.51
2:eJ:177:ARG:HH11	2:eJ:213:VAL:HG21	1.75	0.51
2:eK:260:ARG:HG2	2:eK:260:ARG:O	2.09	0.51
2:fb:197:LYS:HE3	2:iM:62:GLN:HG2	1.91	0.51
2:fc:171:TYR:OH	2:fc:216:ARG:NE	2.42	0.51
2:fk:13:LYS:NZ	2:gF:93:ASP:OD1	2.42	0.51
2:fk:179:LEU:HD13	2:fk:209:TYR:CE2	2.45	0.51
2:fl:2:ALA:N	1:nG:94:GLU:CB	2.72	0.51
2:fo:107:GLY:CA	2:fo:184:TYR:HE1	2.22	0.51
1:fr:99:LEU:HD21	1:nw:60:ARG:HD3	1.91	0.51
1:fr:102:GLU:CG	1:ny:99:LEU:HD23	2.18	0.51
1:fs:57:VAL:HG22	1:fs:104:CYS:H	1.74	0.51
2:fz:56:LEU:HD22	2:nm:82:SER:OG	2.10	0.51
2:fz:221:PHE:HD1	2:fz:242:VAL:HG22	1.70	0.51
1:fH:82:ASP:OD1	1:fH:83:GLY:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fR:186:GLU:N	2:fR:186:GLU:OE1	2.44	0.51
2:gg:185:GLN:OE1	2:ig:190:PRO:HG3	2.10	0.51
2:gG:278:VAL:O	2:gG:278:VAL:HG23	2.11	0.51
2:gR:177:ARG:HH11	2:gR:213:VAL:HG21	1.75	0.51
2:gR:191:SER:HA	2:lT:192:PHE:CE1	2.44	0.51
2:gV:138:ASP:OD1	2:gV:139:THR:N	2.43	0.51
2:gV:186:GLU:OE1	2:gV:186:GLU:N	2.44	0.51
1:gX:94:GLU:HG3	2:ih:2:ALA:N	2.25	0.51
2:hj:186:GLU:N	2:hj:186:GLU:OE1	2.43	0.51
2:hj:300:THR:HG23	2:hj:303:LEU:CD2	2.40	0.51
1:hl:94:GLU:HG3	2:lG:2:ALA:N	2.25	0.51
1:hq:105:THR:HG21	2:ja:60:ILE:CG2	2.39	0.51
2:hx:108:ARG:HB3	5:qz:176:ASN:ND2	2.24	0.51
2:hI:60:ILE:CG2	1:kN:105:THR:HG21	2.38	0.51
2:hT:274:ALA:HB1	2:hT:297:VAL:HG21	1.92	0.51
2:hW:274:ALA:CB	2:hW:297:VAL:HG21	2.40	0.51
2:hX:138:ASP:OD1	2:hX:139:THR:N	2.43	0.51
1:ia:100:LYS:HB2	1:nx:100:LYS:HE3	1.92	0.51
2:iu:30:THR:CG2	2:iu:298:LEU:HD13	2.40	0.51
2:iu:197:LYS:NZ	1:jT:100:LYS:HD2	2.24	0.51
2:iv:192:PHE:CZ	2:iA:196:THR:HG21	2.45	0.51
2:iw:224:TRP:HZ2	2:iw:242:VAL:HG11	1.75	0.51
2:iz:300:THR:HG23	2:iz:303:LEU:CD2	2.40	0.51
2:iI:179:LEU:HD13	2:iI:209:TYR:CE2	2.45	0.51
2:iX:197:LYS:HE2	1:jh:100:LYS:H	0.69	0.51
2:ja:278:VAL:HG23	2:ja:278:VAL:O	2.10	0.51
2:jo:278:VAL:HG23	2:jo:278:VAL:O	2.10	0.51
1:js:57:VAL:HG22	1:js:104:CYS:H	1.75	0.51
2:jz:117:LEU:HD21	2:jz:211:TYR:CA	2.40	0.51
2:jz:192:PHE:CZ	2:jE:196:THR:HG21	2.45	0.51
2:jz:197:LYS:HE2	1:pS:100:LYS:H	0.68	0.51
2:jz:274:ALA:HB1	2:jz:297:VAL:HG21	1.92	0.51
2:jE:57:ARG:NE	2:jE:64:VAL:HG22	2.24	0.51
1:jH:105:THR:CB	2:os:60:ILE:HG12	2.41	0.51
1:jT:94:GLU:HG3	2:pI:2:ALA:N	2.25	0.51
2:ka:30:THR:CG2	2:ka:298:LEU:HD13	2.40	0.51
2:ke:107:GLY:CA	2:ke:184:TYR:HE1	2.22	0.51
2:kg:171:TYR:OH	2:kg:216:ARG:NE	2.42	0.51
2:ko:179:LEU:HD13	2:ko:209:TYR:CE2	2.45	0.51
2:kC:82:SER:OG	2:kQ:56:LEU:HD22	2.10	0.51
2:kC:192:PHE:CZ	2:kH:196:THR:HG21	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kQ:191:SER:HA	2:mX:192:PHE:CE1	2.44	0.51
2:kQ:197:LYS:HE2	1:mU:100:LYS:H	0.69	0.51
1:kX:100:LYS:HB2	1:nj:100:LYS:HE3	1.92	0.51
2:li:186:GLU:N	2:li:186:GLU:OE1	2.44	0.51
2:lr:30:THR:CG2	2:lr:298:LEU:HD13	2.40	0.51
2:ls:177:ARG:HH11	2:ls:213:VAL:HG21	1.75	0.51
2:lv:274:ALA:HB1	2:lv:297:VAL:HG21	1.91	0.51
2:lF:179:LEU:HD13	2:lF:209:TYR:CE2	2.45	0.51
2:lU:177:ARG:HH11	2:lU:213:VAL:HG21	1.75	0.51
2:lU:274:ALA:HB1	2:lU:297:VAL:HG21	1.92	0.51
2:IX:274:ALA:CB	2:IX:297:VAL:HG21	2.40	0.51
2:mj:9:ILE:O	2:mj:9:ILE:HG22	2.11	0.51
2:mw:224:TRP:CZ2	2:mw:242:VAL:HG21	2.45	0.51
1:mG:100:LYS:H	2:oq:197:LYS:HE2	0.68	0.51
2:mJ:190:PRO:HG3	2:ov:185:GLN:OE1	2.10	0.51
2:mK:274:ALA:HB1	2:mK:297:VAL:HG21	1.92	0.51
2:mY:117:LEU:HD21	2:mY:211:TYR:HA	1.92	0.51
2:mY:280:VAL:O	2:mY:289:ASN:ND2	2.41	0.51
2:nl:179:LEU:HD13	2:nl:209:TYR:CE2	2.45	0.51
2:nm:56:LEU:HD22	2:oE:82:SER:OG	2.10	0.51
2:nm:63:ARG:HE	2:oE:205:MET:HE2	1.72	0.51
2:nm:224:TRP:CZ2	2:nm:242:VAL:HG21	2.45	0.51
2:nn:260:ARG:O	2:nn:260:ARG:HG2	2.09	0.51
2:nq:192:PHE:CZ	2:oG:196:THR:HG21	2.42	0.51
2:nF:117:LEU:HD21	2:nF:211:TYR:HA	1.90	0.51
2:nP:23:ALA:O	2:nP:24:LEU:HD22	2.10	0.51
2:nQ:60:ILE:HG12	1:pa:105:THR:CB	2.41	0.51
1:om:100:LYS:H	2:pW:197:LYS:HE2	0.68	0.51
2:oq:224:TRP:CZ2	2:oq:242:VAL:HG21	2.45	0.51
2:or:61:GLY:HA3	1:pR:103:ARG:HG3	1.93	0.51
2:os:50:LEU:HD11	2:ot:98:VAL:HG12	1.92	0.51
1:ow:94:GLU:HG3	2:pW:2:ALA:N	2.25	0.51
2:oV:278:VAL:O	2:oV:278:VAL:HG23	2.10	0.51
2:oW:186:GLU:N	2:oW:186:GLU:OE1	2.44	0.51
2:pk:300:THR:HG23	2:pk:303:LEU:CD2	2.40	0.51
2:pu:117:LEU:HD21	2:pu:211:TYR:HA	1.92	0.51
2:pL:274:ALA:CB	2:pL:297:VAL:HG21	2.40	0.51
2:pL:278:VAL:O	2:pL:278:VAL:HG23	2.10	0.51
2:pM:138:ASP:OD1	2:pM:139:THR:N	2.43	0.51
2:pV:30:THR:CG2	2:pV:298:LEU:HD13	2.40	0.51
2:pW:224:TRP:CZ2	2:pW:242:VAL:HG21	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pW:274:ALA:HB1	2:pW:297:VAL:HG21	1.92	0.51
2:pX:260:ARG:O	2:pX:260:ARG:HG2	2.09	0.51
3:qd:95:ARG:NH2	3:qi:9:PHE:O	2.43	0.51
5:qp:392:LEU:CD1	5:qr:400:TYR:HH	2.21	0.51
6:qq:126:GLN:HG2	5:qL:252:LEU:CD2	2.36	0.51
5:qr:240:PRO:HA	5:qt:268:GLU:OE2	2.10	0.51
5:qt:140:GLU:O	5:qt:151:LEU:N	2.39	0.51
6:qA:122:ALA:O	6:qA:126:GLN:NE2	2.40	0.51
5:qB:217:HIS:HE1	6:qE:138:TRP:CH2	2.28	0.51
5:qH:240:PRO:HA	5:qJ:268:GLU:OE2	2.10	0.51
5:qJ:285:PHE:O	5:qJ:289:MET:HG3	2.10	0.51
1:aa:57:VAL:HG22	1:aa:104:CYS:H	1.74	0.51
2:ai:81:GLU:O	2:ak:57:ARG:N	2.39	0.51
2:ak:107:GLY:CA	2:ak:184:TYR:HE1	2.22	0.51
2:am:57:ARG:NE	2:am:64:VAL:HG22	2.24	0.51
1:an:94:GLU:CB	2:oc:2:ALA:N	2.72	0.51
1:at:99:LEU:HD21	1:bR:102:GLU:OE2	2.06	0.51
1:aB:57:VAL:HG22	1:aB:104:CYS:H	1.75	0.51
1:aD:103:ARG:HG3	2:iY:61:GLY:HA3	1.92	0.51
2:aH:179:LEU:HD13	2:aH:209:TYR:CE2	2.45	0.51
2:aK:60:ILE:HG12	1:kK:105:THR:CB	2.41	0.51
2:aM:138:ASP:OD1	2:aM:139:THR:N	2.43	0.51
2:aM:300:THR:HG23	2:aM:303:LEU:CD2	2.40	0.51
1:aO:94:GLU:HG3	2:kb:2:ALA:N	2.25	0.51
1:aQ:99:LEU:CA	1:ch:102:GLU:OE1	2.28	0.51
2:aZ:278:VAL:O	2:aZ:278:VAL:HG23	2.11	0.51
2:bb:209:TYR:OH	2:bj:93:ASP:OD2	2.22	0.51
1:bf:82:ASP:OD1	1:bf:83:GLY:N	2.43	0.51
2:bm:60:ILE:HG12	1:iR:105:THR:CB	2.41	0.51
2:bn:107:GLY:CA	2:bn:184:TYR:HE1	2.22	0.51
2:bp:185:GLN:OE1	2:dq:190:PRO:HG3	2.10	0.51
1:bu:60:ARG:HD3	1:dj:99:LEU:HD21	1.91	0.51
1:bu:100:LYS:H	2:dd:197:LYS:HE2	0.68	0.51
2:by:191:SER:HA	2:hS:192:PHE:CE1	2.44	0.51
2:bB:274:ALA:HB1	2:bB:297:VAL:HG21	1.91	0.51
1:bI:60:ARG:HD3	1:hL:99:LEU:HD21	1.91	0.51
2:bQ:92:GLU:HB3	5:qp:44:LYS:CE	2.40	0.51
1:bU:62:THR:OG1	1:bU:100:LYS:O	2.27	0.51
2:bZ:2:ALA:N	1:iP:94:GLU:HG3	2.25	0.51
2:ce:185:GLN:OE1	2:iI:190:PRO:HG3	2.10	0.51
1:cf:94:GLU:HG3	2:dr:2:ALA:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cm:30:THR:CG2	2:cm:298:LEU:HD13	2.40	0.51
2:cn:56:LEU:HD22	2:iv:82:SER:OG	2.11	0.51
2:cn:177:ARG:HH11	2:cn:213:VAL:HG21	1.75	0.51
2:cr:186:GLU:N	2:cr:186:GLU:OE1	2.43	0.51
1:cx:60:ARG:HD3	1:pm:99:LEU:HD21	1.91	0.51
2:cP:2:ALA:N	1:fd:94:GLU:HG3	2.25	0.51
2:cP:177:ARG:HH11	2:cP:213:VAL:HG21	1.75	0.51
2:cP:224:TRP:CZ2	2:cP:242:VAL:HG21	2.45	0.51
2:cR:196:THR:HG21	2:fb:192:PHE:CZ	2.42	0.51
2:cT:186:GLU:OE1	2:cT:186:GLU:N	2.43	0.51
1:cW:57:VAL:HG22	1:cW:104:CYS:H	1.75	0.51
1:cX:105:THR:CB	2:dH:60:ILE:HG12	2.40	0.51
2:de:12:LEU:HD11	2:gG:96:LEU:HB2	1.92	0.51
2:df:50:LEU:HD11	2:dg:98:VAL:HG12	1.92	0.51
2:dF:56:LEU:HD22	2:eX:82:SER:OG	2.10	0.51
2:dI:274:ALA:HB1	2:dI:297:VAL:HG21	1.92	0.51
1:dR:100:LYS:HZ1	1:oY:100:LYS:CE	2.23	0.51
2:dT:192:PHE:CZ	2:dY:196:THR:HG21	2.45	0.51
2:dU:61:GLY:HA3	1:oN:103:ARG:HG3	1.93	0.51
2:ev:197:LYS:HE2	1:gz:100:LYS:H	0.68	0.51
2:ez:138:ASP:OD1	2:ez:139:THR:N	2.43	0.51
1:eE:62:THR:OG1	1:eE:100:LYS:O	2.27	0.51
2:fa:274:ALA:HB1	2:fa:297:VAL:HG21	1.91	0.51
2:fl:192:PHE:CZ	2:fq:196:THR:HG21	2.45	0.51
2:fm:23:ALA:O	2:fm:24:LEU:HD22	2.10	0.51
1:fr:86:SER:O	1:fr:90:LEU:N	2.38	0.51
2:fA:221:PHE:CG	2:fA:242:VAL:HG13	2.46	0.51
2:fC:274:ALA:HB1	2:fC:297:VAL:HG21	1.91	0.51
1:fF:99:LEU:HD21	1:me:60:ARG:HD3	1.91	0.51
1:fG:100:LYS:HB2	1:kz:100:LYS:HE3	1.92	0.51
2:fN:177:ARG:HH11	2:fN:213:VAL:HG21	1.75	0.51
2:fQ:274:ALA:CB	2:fQ:297:VAL:HG21	2.40	0.51
1:fT:94:GLU:CB	2:lU:2:ALA:N	2.72	0.51
1:fV:105:THR:CB	2:nC:60:ILE:HG12	2.41	0.51
2:ga:30:THR:CG2	2:ga:298:LEU:HD13	2.40	0.51
2:ga:62:GLN:OE1	1:id:102:GLU:CD	2.53	0.51
2:gb:82:SER:OG	2:ih:56:LEU:HD22	2.11	0.51
2:gf:300:THR:HG23	2:gf:303:LEU:CD2	2.40	0.51
1:gi:57:VAL:HG22	1:gi:104:CYS:H	1.75	0.51
2:gt:186:GLU:N	2:gt:186:GLU:OE1	2.44	0.51
1:gA:100:LYS:HE3	1:oZ:100:LYS:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gN:60:ARG:HD3	1:in:99:LEU:HD21	1.91	0.51
2:he:179:LEU:HD13	2:he:209:TYR:CE2	2.45	0.51
2:hf:177:ARG:HH11	2:hf:213:VAL:HG21	1.75	0.51
1:hl:94:GLU:CB	2:lG:2:ALA:N	2.72	0.51
2:hw:186:GLU:OE1	2:hw:186:GLU:N	2.44	0.51
2:ii:224:TRP:HZ2	2:ii:242:VAL:HG11	1.75	0.51
2:iJ:224:TRP:CZ2	2:iJ:242:VAL:HG21	2.45	0.51
2:iL:50:LEU:HD11	2:iM:98:VAL:HG12	1.92	0.51
1:iR:99:LEU:CD2	1:kj:102:GLU:HB2	2.33	0.51
2:iX:2:ALA:N	1:jr:94:GLU:HG3	2.25	0.51
2:jc:171:TYR:OH	2:jc:216:ARG:NE	2.42	0.51
1:jg:103:ARG:HG3	2:lt:61:GLY:HA3	1.93	0.51
2:jq:171:TYR:OH	2:jq:216:ARG:NE	2.42	0.51
2:jy:179:LEU:HD13	2:jy:209:TYR:CE2	2.45	0.51
2:jA:12:LEU:HD11	2:nb:96:LEU:HB2	1.92	0.51
1:jJ:60:ARG:HD3	1:pO:99:LEU:HD21	1.91	0.51
2:ka:190:PRO:HG3	2:lx:185:GLN:OE1	2.10	0.51
2:kb:117:LEU:HD21	2:kb:211:TYR:HA	1.92	0.51
2:kf:186:GLU:N	2:kf:186:GLU:OE1	2.43	0.51
2:kf:300:THR:HG23	2:kf:303:LEU:CD2	2.40	0.51
2:kB:62:GLN:OE1	1:kM:102:GLU:CD	2.53	0.51
2:kC:117:LEU:HD21	2:kC:211:TYR:HA	1.92	0.51
2:kD:9:ILE:O	2:kD:9:ILE:HG22	2.11	0.51
2:kG:300:THR:HG23	2:kG:303:LEU:CD2	2.40	0.51
2:kQ:205:MET:HE2	2:mY:63:ARG:HE	1.72	0.51
2:kU:186:GLU:N	2:kU:186:GLU:OE1	2.44	0.51
2:ld:179:LEU:HD13	2:ld:209:TYR:CE2	2.45	0.51
2:lf:12:LEU:HD11	2:oH:96:LEU:HB2	1.92	0.51
2:lf:61:GLY:HA3	1:mF:103:ARG:HG3	1.93	0.51
2:li:197:LYS:HE3	2:np:62:GLN:HG2	1.91	0.51
2:lv:274:ALA:CB	2:lv:297:VAL:HG21	2.40	0.51
2:lG:192:PHE:CZ	2:lL:196:THR:HG21	2.45	0.51
2:IH:221:PHE:CG	2:IH:242:VAL:HG13	2.46	0.51
2:mh:179:LEU:HD13	2:mh:209:TYR:CE2	2.45	0.51
2:mi:2:ALA:N	1:mC:94:GLU:HG3	2.25	0.51
2:mi:117:LEU:HD21	2:mi:211:TYR:HA	1.92	0.51
2:mv:179:LEU:HD13	2:mv:209:TYR:CE2	2.45	0.51
2:my:93:ASP:OD1	2:oD:13:LYS:NZ	2.42	0.51
2:mB:57:ARG:NE	2:mB:64:VAL:HG22	2.24	0.51
2:mJ:192:PHE:CE1	2:oq:191:SER:HA	2.44	0.51
2:mN:274:ALA:HB1	2:mN:297:VAL:HG21	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nN:30:THR:CG2	2:nN:298:LEU:HD13	2.40	0.51
2:nO:117:LEU:HD21	2:nO:211:TYR:HA	1.92	0.51
2:nO:177:ARG:HH11	2:nO:213:VAL:HG21	1.75	0.51
2:nP:224:TRP:HZ2	2:nP:242:VAL:HG11	1.75	0.51
2:nT:185:GLN:OE1	2:ob:190:PRO:HG3	2.10	0.51
2:od:23:ALA:O	2:od:24:LEU:HD22	2.10	0.51
2:op:190:PRO:HG3	2:qb:185:GLN:OE1	2.10	0.51
2:oD:30:THR:CG2	2:oD:298:LEU:HD13	2.40	0.51
2:oF:260:ARG:HG2	2:oF:260:ARG:O	2.09	0.51
2:oH:274:ALA:HB1	2:oH:297:VAL:HG21	1.91	0.51
2:oW:138:ASP:OD1	2:oW:139:THR:N	2.43	0.51
2:ph:224:TRP:HZ2	2:ph:242:VAL:HG11	1.75	0.51
2:pu:274:ALA:HB1	2:pu:297:VAL:HG21	1.92	0.51
2:px:9:ILE:HG22	2:px:9:ILE:O	2.08	0.51
2:pI:117:LEU:HD21	2:pI:211:TYR:CA	2.40	0.51
2:pM:300:THR:HG23	2:pM:303:LEU:CD2	2.40	0.51
2:pX:221:PHE:CG	2:pX:242:VAL:HG13	2.46	0.51
3:qd:66:GLN:C	4:qn:194:LEU:HD11	2.31	0.51
3:qi:67:ARG:CB	4:qo:194:LEU:HD13	2.40	0.51
4:qj:38:GLN:CG	4:qo:214:GLN:O	2.57	0.51
4:qn:179:THR:CG2	4:qo:247:GLY:CA	2.88	0.51
5:qx:207:ARG:NE	5:qz:69:GLU:OE2	2.43	0.51
5:qx:240:PRO:HA	5:qz:268:GLU:OE2	2.10	0.51
5:qD:229:ILE:HD13	5:qF:232:LEU:CD1	2.39	0.51
5:qD:380:MET:SD	5:qD:384:ILE:HD11	2.50	0.51
2:ak:60:ILE:CG2	1:fw:105:THR:HG21	2.39	0.51
2:al:300:THR:HG23	2:al:303:LEU:CD2	2.40	0.51
2:au:197:LYS:NZ	1:bR:100:LYS:HD2	2.24	0.51
2:ay:138:ASP:OD1	2:ay:139:THR:N	2.43	0.51
1:aG:99:LEU:HD21	1:kh:102:GLU:OE2	2.06	0.51
2:aI:2:ALA:N	1:jd:94:GLU:HG3	2.25	0.51
2:aJ:224:TRP:HZ2	2:aJ:242:VAL:HG11	1.75	0.51
2:aL:107:GLY:CA	2:aL:184:TYR:HE1	2.22	0.51
1:aT:105:THR:HG21	2:px:60:ILE:CG2	2.39	0.51
1:be:60:ARG:NE	1:kj:99:LEU:HD22	2.12	0.51
2:bk:82:SER:OG	2:dr:56:LEU:HD22	2.11	0.51
2:bk:224:TRP:CZ2	2:bk:242:VAL:HG21	2.45	0.51
2:bz:12:LEU:HD11	2:fa:96:LEU:HB2	1.92	0.51
2:bz:221:PHE:CG	2:bz:242:VAL:HG13	2.46	0.51
2:bB:96:LEU:HB2	2:ca:12:LEU:HD11	1.92	0.51
2:bO:62:GLN:HG2	2:IY:197:LYS:HE3	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bZ:192:PHE:CZ	2:ce:196:THR:HG21	2.45	0.51
2:bZ:197:LYS:HE2	1:iF:100:LYS:H	0.69	0.51
2:cb:50:LEU:HD11	2:cc:98:VAL:HG12	1.92	0.51
2:cc:107:GLY:CA	2:cc:184:TYR:HE1	2.22	0.51
2:cn:274:ALA:HB1	2:cn:297:VAL:HG21	1.92	0.51
2:cA:30:THR:CG2	2:cA:298:LEU:HD13	2.40	0.51
2:cC:224:TRP:HZ2	2:cC:242:VAL:HG11	1.75	0.51
2:cP:197:LYS:HE2	1:eT:100:LYS:H	0.68	0.51
2:cQ:23:ALA:O	2:cQ:24:LEU:HD22	2.10	0.51
2:dd:243:TYR:CE1	2:dd:294:LEU:HD21	2.46	0.51
2:dg:278:VAL:O	2:dg:278:VAL:HG23	2.11	0.51
2:dI:274:ALA:CB	2:dI:297:VAL:HG21	2.40	0.51
2:dS:62:GLN:OE1	1:nK:102:GLU:CD	2.53	0.51
2:dT:56:LEU:HD22	2:oS:82:SER:OG	2.10	0.51
2:eg:13:LYS:NZ	2:nC:93:ASP:OD1	2.42	0.51
2:ej:60:ILE:HG12	1:ft:105:THR:CB	2.41	0.51
2:em:57:ARG:NE	2:em:64:VAL:HG22	2.24	0.51
2:ev:192:PHE:CZ	2:eA:196:THR:HG21	2.45	0.51
2:ez:300:THR:HG23	2:ez:303:LEU:CD2	2.40	0.51
1:eD:105:THR:CB	2:fn:60:ILE:HG12	2.41	0.51
1:eP:94:GLU:HG3	2:gp:2:ALA:N	2.25	0.51
2:fl:177:ARG:HH11	2:fl:213:VAL:HG21	1.75	0.51
2:fm:221:PHE:CG	2:fm:242:VAL:HG13	2.46	0.51
2:fy:4:ILE:HG23	2:fy:5:THR:HG23	1.93	0.51
2:fz:224:TRP:CZ2	2:fz:242:VAL:HG21	2.45	0.51
2:fA:260:ARG:HG2	2:fA:260:ARG:O	2.09	0.51
2:fB:60:ILE:HG12	1:nW:105:THR:CB	2.40	0.51
2:fC:274:ALA:CB	2:fC:297:VAL:HG21	2.40	0.51
1:fH:105:THR:CB	2:my:60:ILE:HG12	2.41	0.51
2:fM:179:LEU:HD13	2:fM:209:TYR:CE2	2.45	0.51
2:fN:117:LEU:HD21	2:fN:211:TYR:CA	2.40	0.51
2:fR:197:LYS:HE3	2:kF:62:GLN:HG2	1.90	0.51
1:fW:82:ASP:OD1	1:fW:83:GLY:N	2.43	0.51
2:gg:144:TYR:HH	2:gg:254:GLY:H	1.58	0.51
1:gl:100:LYS:H	2:hT:197:LYS:HE2	0.68	0.51
1:gv:94:GLU:HG3	2:hT:2:ALA:N	2.25	0.51
2:gQ:30:THR:CG2	2:gQ:298:LEU:HD13	2.40	0.51
2:gR:280:VAL:O	2:gR:289:ASN:ND2	2.41	0.51
2:gS:61:GLY:HA3	1:ic:103:ARG:HG3	1.93	0.51
1:ha:103:ARG:HG3	2:kD:61:GLY:HA3	1.93	0.51
2:he:30:THR:CG2	2:he:298:LEU:HD13	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hf:56:LEU:HD22	2:lG:82:SER:OG	2.10	0.51
2:hf:117:LEU:HD21	2:hf:211:TYR:CA	2.39	0.51
2:hg:9:ILE:O	2:hg:9:ILE:HG22	2.11	0.51
1:hm:57:VAL:HG22	1:hm:104:CYS:H	1.75	0.51
2:ht:81:GLU:O	2:hv:57:ARG:N	2.39	0.51
2:ht:221:PHE:CG	2:ht:242:VAL:HG13	2.46	0.51
2:hv:60:ILE:CG2	1:iU:105:THR:HG21	2.39	0.51
2:hw:138:ASP:OD1	2:hw:139:THR:N	2.43	0.51
2:hw:300:THR:HG23	2:hw:303:LEU:CD2	2.40	0.51
1:hA:105:THR:CB	2:lW:60:ILE:HG12	2.41	0.51
2:hF:43:ALA:O	2:hF:44:SER:OG	2.20	0.51
2:hG:12:LEU:HD11	2:kF:96:LEU:HB2	1.92	0.51
2:hG:23:ALA:O	2:hG:24:LEU:HD22	2.10	0.51
2:ih:243:TYR:CE1	2:ih:294:LEU:HD21	2.46	0.51
2:il:186:GLU:OE1	2:il:186:GLU:N	2.43	0.51
1:ip:105:THR:CB	2:lu:60:ILE:HG12	2.41	0.51
2:iu:179:LEU:HD13	2:iu:209:TYR:CE2	2.45	0.51
2:iv:274:ALA:HB1	2:iv:297:VAL:HG21	1.92	0.51
2:iw:9:ILE:HG22	2:iw:9:ILE:O	2.11	0.51
2:iw:61:GLY:HA3	1:jI:103:ARG:HG3	1.93	0.51
2:iy:274:ALA:HB1	2:iy:297:VAL:HG21	1.91	0.51
2:iN:186:GLU:OE1	2:iN:186:GLU:N	2.44	0.51
2:iX:82:SER:OG	2:jl:56:LEU:HD22	2.10	0.51
2:iX:191:SER:HA	2:jk:192:PHE:CE1	2.44	0.51
2:jp:300:THR:HG23	2:jp:303:LEU:CD2	2.40	0.51
2:jQ:185:GLN:OE1	2:lr:190:PRO:HG3	2.10	0.51
2:jA:81:GLU:O	2:jC:57:ARG:N	2.39	0.51
2:jA:221:PHE:CG	2:jA:242:VAL:HG13	2.46	0.51
1:jF:94:GLU:HG3	2:le:2:ALA:N	2.25	0.51
2:jN:177:ARG:HH11	2:jN:213:VAL:HG21	1.75	0.51
2:jP:50:LEU:HD11	2:jQ:98:VAL:HG12	1.92	0.51
1:jX:100:LYS:H	2:ls:197:LYS:HE2	0.69	0.51
2:ka:43:ALA:O	2:ka:44:SER:OG	2.20	0.51
2:ka:179:LEU:HD13	2:ka:209:TYR:CE2	2.45	0.51
2:kr:274:ALA:CB	2:kr:297:VAL:HG21	2.40	0.51
2:kH:185:GLN:OE1	2:kP:190:PRO:HG3	2.10	0.51
1:kK:82:ASP:OD1	1:kK:83:GLY:N	2.41	0.51
2:kS:50:LEU:HD11	2:kT:98:VAL:HG12	1.92	0.51
2:kU:138:ASP:OD1	2:kU:139:THR:N	2.43	0.51
2:kU:171:TYR:OH	2:kU:175:THR:OG1	2.12	0.51
1:kW:99:LEU:HD21	1:mU:60:ARG:HD3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ld:190:PRO:HG3	2:mP:185:GLN:OE1	2.10	0.51
2:lf:23:ALA:O	2:lf:24:LEU:HD22	2.10	0.51
2:lj:57:ARG:NE	2:lj:64:VAL:HG22	2.24	0.51
2:lr:179:LEU:HD13	2:lr:209:TYR:CE2	2.45	0.51
2:lG:56:LEU:HD22	2:mY:82:SER:OG	2.10	0.51
2:lK:192:PHE:CZ	2:na:196:THR:HG21	2.42	0.51
1:lM:94:GLU:HG3	2:mY:2:ALA:N	2.25	0.51
2:mi:82:SER:OG	2:mw:56:LEU:HD22	2.11	0.51
2:mi:117:LEU:HD21	2:mi:211:TYR:CA	2.39	0.51
2:mz:274:ALA:CB	2:mz:297:VAL:HG21	2.40	0.51
2:mL:61:GLY:HA3	1:ol:103:ARG:HG3	1.93	0.51
2:mY:117:LEU:HD21	2:mY:211:TYR:CA	2.40	0.51
2:nc:300:THR:HG23	2:nc:303:LEU:CD2	2.40	0.51
1:ni:100:LYS:H	2:oe:197:LYS:HE2	0.69	0.51
2:nr:57:ARG:NE	2:nr:64:VAL:HG22	2.24	0.51
2:nE:186:GLU:OE1	2:nE:186:GLU:N	2.44	0.51
2:nP:9:ILE:O	2:nP:9:ILE:HG22	2.11	0.51
2:nP:221:PHE:CG	2:nP:242:VAL:HG13	2.46	0.51
2:oe:50:LEU:HD11	2:of:98:VAL:HG12	1.92	0.51
1:oj:57:VAL:HG22	1:oj:104:CYS:H	1.75	0.51
2:oq:177:ARG:HH11	2:oq:213:VAL:HG21	1.75	0.51
1:oy:82:ASP:OD1	1:oy:83:GLY:N	2.41	0.51
2:oe:117:LEU:HD21	2:oe:211:TYR:CA	2.40	0.51
2:ph:9:ILE:O	2:ph:9:ILE:HG22	2.11	0.51
2:pu:82:SER:OG	2:pI:56:LEU:HD22	2.10	0.51
2:pu:280:VAL:O	2:pu:289:ASN:ND2	2.41	0.51
2:pv:221:PHE:CG	2:pv:242:VAL:HG13	2.46	0.51
2:pN:144:TYR:HH	2:pN:254:GLY:H	1.58	0.51
1:pP:57:VAL:HG22	1:pP:104:CYS:H	1.75	0.51
3:qe:84:TYR:CZ	6:qw:20:GLU:HG2	2.16	0.51
3:qg:66:GLN:HA	4:qk:8:TYR:C	2.35	0.51
4:qj:253:ILE:HG13	4:qo:174:GLN:HG2	1.92	0.51
5:qp:268:GLU:OE2	5:qL:240:PRO:HA	2.10	0.51
5:qt:240:PRO:HA	5:qv:268:GLU:OE2	2.10	0.51
5:qt:285:PHE:O	5:qt:289:MET:HG3	2.10	0.51
5:qt:392:LEU:HD12	5:qv:400:TYR:HE1	1.58	0.51
5:qv:285:PHE:O	5:qv:289:MET:HG3	2.09	0.51
5:qB:236:LEU:HD21	5:qD:266:ILE:HG12	1.92	0.51
5:qB:285:PHE:O	5:qB:289:MET:HG3	2.09	0.51
5:qD:42:PRO:HD2	6:qI:133:ASP:OD2	2.11	0.51
5:qJ:238:LYS:HE3	5:qL:268:GLU:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:am:185:GLN:OE1	2:or:190:PRO:HG3	2.10	0.51
1:ap:99:LEU:HD21	1:hN:60:ARG:HH21	0.59	0.51
2:ax:60:ILE:CG2	1:gm:105:THR:HG21	2.39	0.51
1:aG:100:LYS:HZ1	1:kh:100:LYS:CE	2.22	0.51
2:aI:117:LEU:HD21	2:aI:211:TYR:CA	2.40	0.51
2:aL:62:GLN:HG2	2:nc:197:LYS:HE3	1.91	0.51
1:aP:57:VAL:HG22	1:aP:104:CYS:H	1.75	0.51
2:aW:117:LEU:HD21	2:aW:211:TYR:HA	1.92	0.51
2:aW:197:LYS:HE2	1:bg:100:LYS:H	0.68	0.51
2:aZ:107:GLY:CA	2:aZ:184:TYR:HE1	2.22	0.51
2:ba:197:LYS:HE3	2:px:62:GLN:HG2	1.91	0.51
1:bc:102:GLU:CG	1:bi:99:LEU:HD23	2.19	0.51
1:bh:105:THR:HG21	2:jo:60:ILE:CG2	2.39	0.51
2:bl:224:TRP:HZ2	2:bl:242:VAL:HG11	1.75	0.51
2:bm:50:LEU:HD11	2:bn:98:VAL:HG12	1.92	0.51
2:bB:107:GLY:CA	2:bB:184:TYR:HE1	2.22	0.51
2:bB:274:ALA:CB	2:bB:297:VAL:HG21	2.40	0.51
2:bC:300:THR:HG23	2:bC:303:LEU:CD2	2.40	0.51
2:bM:221:PHE:CG	2:bM:242:VAL:HG13	2.46	0.51
2:bP:197:LYS:HZ1	2:IX:62:GLN:HE21	1.57	0.51
1:bT:105:THR:CB	2:eZ:60:ILE:HG12	2.41	0.51
2:bZ:56:LEU:HD22	2:dr:82:SER:OG	2.10	0.51
2:ca:9:ILE:O	2:ca:9:ILE:HG22	2.11	0.51
2:cn:117:LEU:HD21	2:cn:211:TYR:HA	1.92	0.51
2:co:61:GLY:HA3	1:iq:103:ARG:HG3	1.93	0.51
2:cp:60:ILE:HG12	1:jf:105:THR:CB	2.41	0.51
2:cC:9:ILE:O	2:cC:9:ILE:HG22	2.11	0.51
1:cZ:100:LYS:H	2:eJ:197:LYS:HE2	0.69	0.51
2:dc:13:LYS:NZ	2:eL:93:ASP:OD1	2.42	0.51
2:dd:274:ALA:HB1	2:dd:297:VAL:HG21	1.92	0.51
2:dh:186:GLU:N	2:dh:186:GLU:OE1	2.43	0.51
2:dh:300:THR:HG23	2:dh:303:LEU:CD2	2.40	0.51
1:dl:105:THR:CB	2:hV:60:ILE:HG12	2.41	0.51
2:ds:243:TYR:O	2:ds:247:ARG:HG2	2.11	0.51
2:dE:4:ILE:HG23	2:dE:5:THR:HG23	1.93	0.51
2:dF:82:SER:OG	2:pg:56:LEU:HD22	2.11	0.51
2:dF:117:LEU:HD21	2:dF:211:TYR:HA	1.92	0.51
1:dQ:105:THR:HG21	2:jQ:60:ILE:CG2	2.39	0.51
2:dS:179:LEU:HD13	2:dS:209:TYR:CE2	2.45	0.51
2:dT:2:ALA:N	1:nU:94:GLU:HG3	2.25	0.51
2:dV:60:ILE:HG12	1:pC:105:THR:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dW:274:ALA:CB	2:dW:297:VAL:HG21	2.40	0.51
1:dZ:102:GLU:OE2	1:nM:99:LEU:HD21	2.06	0.51
2:eh:224:TRP:CZ2	2:eh:242:VAL:HG21	2.45	0.51
2:ek:96:LEU:HB2	2:od:12:LEU:HD11	1.92	0.51
2:ex:93:ASP:OD1	2:gC:13:LYS:NZ	2.42	0.51
2:ex:196:THR:HG21	2:gH:192:PHE:CZ	2.42	0.51
2:eA:209:TYR:OH	2:gC:93:ASP:OD2	2.22	0.51
2:eI:4:ILE:HG23	2:eI:5:THR:HG23	1.93	0.51
2:eJ:63:ARG:NE	2:gp:205:MET:CE	2.74	0.51
2:eO:117:LEU:HD21	2:eO:211:TYR:HA	1.90	0.51
2:eW:43:ALA:O	2:eW:44:SER:OG	2.20	0.51
2:fa:278:VAL:HG23	2:fa:278:VAL:O	2.10	0.51
2:fl:2:ALA:N	1:nG:94:GLU:HG3	2.25	0.51
2:fm:9:ILE:O	2:fm:9:ILE:HG22	2.11	0.51
1:fr:102:GLU:OE2	1:ny:99:LEU:HD21	2.06	0.51
2:fy:30:THR:CG2	2:fy:298:LEU:HD13	2.40	0.51
2:fy:190:PRO:HG3	2:nr:185:GLN:OE1	2.10	0.51
2:fN:243:TYR:CE1	2:fN:294:LEU:HD21	2.46	0.51
2:fO:9:ILE:O	2:fO:9:ILE:HG22	2.11	0.51
2:fO:12:LEU:HD11	2:hi:96:LEU:HB2	1.92	0.51
2:fO:61:GLY:HA3	1:IP:103:ARG:HG3	1.93	0.51
2:fO:221:PHE:CG	2:fO:242:VAL:HG13	2.46	0.51
2:FR:300:THR:HG23	2:FR:303:LEU:CD2	2.40	0.51
1:fT:102:GLU:OE2	1:fZ:99:LEU:HD21	2.06	0.51
2:gd:60:ILE:HG12	1:mc:105:THR:CB	2.41	0.51
2:ge:62:GLN:HE21	2:mA:197:LYS:HZ1	1.58	0.51
2:gg:57:ARG:NE	2:gg:64:VAL:HG22	2.24	0.51
2:gp:243:TYR:CE1	2:gp:294:LEU:HD21	2.46	0.51
2:gq:260:ARG:O	2:gq:260:ARG:HG2	2.09	0.51
2:gC:30:THR:CG2	2:gC:298:LEU:HD13	2.40	0.51
2:gD:117:LEU:HD21	2:gD:211:TYR:CA	2.40	0.51
2:gE:221:PHE:CG	2:gE:242:VAL:HG13	2.46	0.51
2:gF:50:LEU:HD11	2:gG:98:VAL:HG12	1.92	0.51
2:gR:243:TYR:CE1	2:gR:294:LEU:HD21	2.46	0.51
2:gT:50:LEU:HD11	2:gU:98:VAL:HG12	1.92	0.51
1:hb:60:ARG:HD3	1:IM:99:LEU:HD21	1.91	0.51
2:he:4:ILE:HG23	2:he:5:THR:HG23	1.93	0.51
2:hF:192:PHE:CZ	2:hk:196:THR:HG21	2.45	0.51
2:hF:197:LYS:HE2	1:ky:100:LYS:H	0.69	0.51
2:hG:260:ARG:O	2:hG:260:ARG:HG2	2.09	0.51
2:ht:224:TRP:HZ2	2:ht:242:VAL:HG11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hB:62:THR:OG1	1:hB:100:LYS:O	2.27	0.51
2:hG:81:GLU:OE1	2:hG:83:THR:HG23	2.11	0.51
2:hJ:186:GLU:N	2:hJ:186:GLU:OE1	2.44	0.51
2:ii:221:PHE:CG	2:ii:242:VAL:HG13	2.46	0.51
2:ik:60:ILE:CG2	1:nx:105:THR:HG21	2.39	0.51
2:iw:260:ARG:O	2:iw:260:ARG:HG2	2.09	0.51
2:iz:138:ASP:OD1	2:iz:139:THR:N	2.43	0.51
1:iE:82:ASP:OD1	1:iE:83:GLY:N	2.43	0.51
2:iJ:192:PHE:CZ	2:iO:196:THR:HG21	2.45	0.51
2:iK:221:PHE:CG	2:iK:242:VAL:HG13	2.46	0.51
2:iK:243:TYR:O	2:iK:247:ARG:HG2	2.11	0.51
2:iX:184:TYR:HH	2:iX:204:PHE:HD1	1.54	0.51
2:iY:9:ILE:O	2:iY:9:ILE:HG22	2.11	0.51
2:iY:221:PHE:CG	2:iY:242:VAL:HG13	2.46	0.51
2:iZ:50:LEU:HD11	2:ja:98:VAL:HG12	1.92	0.51
2:jb:138:ASP:OD1	2:jb:139:THR:N	2.43	0.51
2:jl:221:PHE:HD1	2:jl:242:VAL:HG22	1.70	0.51
2:jl:224:TRP:CZ2	2:jl:242:VAL:HG21	2.45	0.51
1:jt:82:ASP:OD1	1:jt:83:GLY:N	2.41	0.51
2:jy:4:ILE:HG23	2:jy:5:THR:HG23	1.93	0.51
2:jz:2:ALA:N	1:qc:94:GLU:CB	2.72	0.51
2:jE:144:TYR:HH	2:jE:254:GLY:H	1.59	0.51
2:jQ:274:ALA:HB1	2:jQ:297:VAL:HG21	1.92	0.51
2:kd:50:LEU:HD11	2:ke:98:VAL:HG12	1.92	0.51
2:ke:274:ALA:HB1	2:ke:297:VAL:HG21	1.91	0.51
2:kp:9:ILE:O	2:kp:9:ILE:HG22	2.11	0.51
2:kp:243:TYR:O	2:kp:247:ARG:HG2	2.11	0.51
2:kt:107:GLY:CA	5:qD:178:PRO:HA	2.40	0.51
2:kF:274:ALA:CB	2:kF:297:VAL:HG21	2.40	0.51
2:kP:179:LEU:HD13	2:kP:209:TYR:CE2	2.45	0.51
2:kT:274:ALA:CB	2:kT:297:VAL:HG21	2.40	0.51
1:la:100:LYS:H	2:mK:197:LYS:HE2	0.69	0.51
2:lf:81:GLU:O	2:lh:57:ARG:N	2.39	0.51
2:lh:278:VAL:O	2:lh:278:VAL:HG23	2.10	0.51
1:lP:62:THR:OG1	1:lP:100:LYS:O	2.27	0.51
2:lT:30:THR:CG2	2:lT:298:LEU:HD13	2.40	0.51
2:IV:23:ALA:O	2:IV:24:LEU:HD22	2.10	0.51
2:IV:221:PHE:CG	2:IV:242:VAL:HG13	2.46	0.51
2:mh:4:ILE:HG23	2:mh:5:THR:HG23	1.93	0.51
2:mw:243:TYR:CE1	2:mw:294:LEU:HD21	2.46	0.51
2:mx:224:TRP:HZ2	2:mx:242:VAL:HG11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mz:274:ALA:HB1	2:mz:297:VAL:HG21	1.91	0.51
2:mA:300:THR:HG23	2:mA:303:LEU:CD2	2.40	0.51
2:mB:144:TYR:HH	2:mB:254:GLY:H	1.58	0.51
2:nb:274:ALA:CB	2:nb:297:VAL:HG21	2.40	0.51
2:nm:243:TYR:CE1	2:nm:294:LEU:HD21	2.46	0.51
2:nn:61:GLY:HA3	1:oz:103:ARG:HG3	1.93	0.51
1:ns:94:GLU:HG3	2:oe:2:ALA:N	2.25	0.51
2:nP:81:GLU:OE1	2:nP:83:THR:HG23	2.11	0.51
2:oc:243:TYR:CE1	2:oc:294:LEU:HD21	2.46	0.51
1:ol:62:THR:OG1	1:ol:100:LYS:O	2.27	0.51
2:ou:186:GLU:N	2:ou:186:GLU:OE1	2.44	0.51
2:oG:50:LEU:HD11	2:oH:98:VAL:HG12	1.92	0.51
1:pb:82:ASP:OD1	1:pb:83:GLY:N	2.43	0.51
2:pf:4:ILE:HG23	2:pf:5:THR:HG23	1.93	0.51
2:pv:260:ARG:O	2:pv:260:ARG:HG2	2.09	0.51
2:pH:30:THR:CG2	2:pH:298:LEU:HD13	2.40	0.51
2:pJ:243:TYR:O	2:pJ:247:ARG:HG2	2.11	0.51
2:pW:243:TYR:CE1	2:pW:294:LEU:HD21	2.46	0.51
2:qa:171:TYR:OH	2:qa:175:THR:OG1	2.12	0.51
2:qa:300:THR:HG23	2:qa:303:LEU:CD2	2.40	0.51
3:qe:141:LEU:HD23	3:qe:143:PHE:HE2	1.73	0.51
6:qq:112:LEU:CB	6:qs:58:LEU:HD13	2.34	0.51
6:qq:138:TRP:CH2	5:qL:217:HIS:HE1	2.28	0.51
5:qr:380:MET:SD	5:qr:384:ILE:HD11	2.50	0.51
5:qt:217:HIS:CE1	6:qw:138:TRP:CH2	2.99	0.51
5:qv:240:PRO:HA	5:qx:268:GLU:OE2	2.10	0.51
5:qB:42:PRO:HD2	6:qG:133:ASP:OD2	2.11	0.51
5:qF:42:PRO:HD2	6:qK:133:ASP:OD2	2.11	0.51
5:qF:238:LYS:HE3	5:qH:268:GLU:HA	1.93	0.51
5:qH:238:LYS:HE3	5:qJ:268:GLU:HA	1.93	0.51
5:qH:362:ARG:CG	5:qJ:115:ASP:HB3	2.39	0.51
5:qH:380:MET:SD	5:qH:384:ILE:HD11	2.50	0.51
2:ah:224:TRP:CZ2	2:ah:242:VAL:HG21	2.45	0.51
2:ah:274:ALA:HB1	2:ah:297:VAL:HG21	1.92	0.51
2:ah:280:VAL:O	2:ah:289:ASN:ND2	2.41	0.51
1:an:94:GLU:HG3	2:oc:2:ALA:N	2.25	0.51
1:aq:103:ARG:HG3	2:kp:61:GLY:HA3	1.93	0.51
2:au:104:GLN:HE21	5:qL:175:ASP:CG	2.17	0.51
2:av:9:ILE:O	2:av:9:ILE:HG22	2.11	0.51
2:av:12:LEU:HD11	2:hW:96:LEU:HB2	1.92	0.51
2:av:81:GLU:OE1	2:av:83:THR:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ax:107:GLY:CA	2:ax:184:TYR:HE1	2.22	0.51
2:aH:4:ILE:HG23	2:aH:5:THR:HG23	1.93	0.51
2:aJ:9:ILE:O	2:aJ:9:ILE:HG22	2.11	0.51
1:aQ:99:LEU:HD21	1:ch:60:ARG:HH21	0.59	0.51
2:aW:82:SER:OG	2:bk:56:LEU:HD22	2.11	0.51
2:aZ:96:LEU:HB2	2:jm:12:LEU:HD11	1.92	0.51
2:bj:179:LEU:HD13	2:bj:209:TYR:CE2	2.45	0.51
1:bs:99:LEU:HD21	1:eR:60:ARG:HH21	0.59	0.51
1:bE:102:GLU:CG	1:hR:99:LEU:HD23	2.18	0.51
2:bL:179:LEU:HD13	2:bL:209:TYR:CE2	2.45	0.51
2:bP:197:LYS:HE3	2:lX:62:GLN:HG2	1.90	0.51
2:bY:190:PRO:HG3	2:dw:185:GLN:OE1	2.10	0.51
2:bZ:274:ALA:HB1	2:bZ:297:VAL:HG21	1.92	0.51
2:ca:23:ALA:O	2:ca:24:LEU:HD22	2.10	0.51
2:cd:138:ASP:OD1	2:cd:139:THR:N	2.43	0.51
2:cm:13:LYS:NZ	2:ix:93:ASP:OD1	2.42	0.51
2:cn:205:MET:CE	2:pu:63:ARG:NE	2.74	0.51
2:cq:274:ALA:CB	2:cq:297:VAL:HG21	2.40	0.51
2:cq:278:VAL:O	2:cq:278:VAL:HG23	2.11	0.51
1:cy:100:LYS:HE3	1:nH:100:LYS:HB2	1.92	0.51
2:cA:4:ILE:HG23	2:cA:5:THR:HG23	1.93	0.51
2:cA:179:LEU:HD13	2:cA:209:TYR:CE2	2.45	0.51
2:cB:243:TYR:CE1	2:cB:294:LEU:HD21	2.46	0.51
2:cC:61:GLY:HA3	1:pb:103:ARG:HG3	1.92	0.51
1:cM:100:LYS:HE3	1:pB:100:LYS:HB2	1.92	0.51
2:cS:278:VAL:HG23	2:cS:278:VAL:O	2.11	0.51
2:dc:4:ILE:HG23	2:dc:5:THR:HG23	1.93	0.51
2:dd:224:TRP:CZ2	2:dd:242:VAL:HG21	2.45	0.51
1:dm:82:ASP:OD1	1:dm:83:GLY:N	2.43	0.51
2:dr:243:TYR:CE1	2:dr:294:LEU:HD21	2.46	0.51
2:ds:9:ILE:HG22	2:ds:9:ILE:O	2.11	0.51
2:du:274:ALA:HB1	2:du:297:VAL:HG21	1.91	0.51
1:dA:82:ASP:OD1	1:dA:83:GLY:N	2.43	0.51
1:dA:103:ARG:HG3	2:ph:61:GLY:HA3	1.93	0.51
1:dB:100:LYS:H	2:eX:197:LYS:HE2	0.69	0.51
2:dF:63:ARG:NE	2:eX:205:MET:CE	2.74	0.51
2:dF:192:PHE:CZ	2:dK:196:THR:HG21	2.45	0.51
2:dH:50:LEU:HD11	2:dI:98:VAL:HG12	1.92	0.51
2:dJ:300:THR:HG23	2:dJ:303:LEU:CD2	2.40	0.51
1:dN:99:LEU:CD2	1:pC:102:GLU:HB2	2.33	0.51
2:dU:9:ILE:HG22	2:dU:9:ILE:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dU:81:GLU:OE1	2:dU:83:THR:HG23	2.11	0.51
1:eb:105:THR:CB	2:oe:60:ILE:HG12	2.41	0.51
1:ee:100:LYS:HE3	1:mb:100:LYS:HB2	1.92	0.51
2:eh:2:ALA:N	1:eB:94:GLU:HG3	2.25	0.51
2:eh:197:LYS:HE2	1:er:100:LYS:H	0.69	0.51
2:ei:243:TYR:O	2:ei:247:ARG:HG2	2.11	0.51
2:ek:274:ALA:CB	2:ek:297:VAL:HG21	2.40	0.51
2:em:171:TYR:OH	2:em:216:ARG:NE	2.42	0.51
2:ev:82:SER:OG	2:gD:56:LEU:HD22	2.10	0.51
2:ex:50:LEU:HD11	2:ey:98:VAL:HG12	1.92	0.51
2:eA:196:THR:HG23	2:gD:63:ARG:HH12	1.76	0.51
2:eI:30:THR:CG2	2:eI:298:LEU:HD13	2.40	0.51
2:fm:61:GLY:HA3	1:gy:103:ARG:HG3	1.93	0.51
2:fo:274:ALA:HB1	2:fo:297:VAL:HG21	1.91	0.51
1:fv:100:LYS:H	2:nm:197:LYS:HE2	0.68	0.51
2:fz:63:ARG:HE	2:nm:205:MET:HE2	1.72	0.51
2:fz:197:LYS:HE2	1:me:100:LYS:H	0.69	0.51
2:fR:138:ASP:OD1	2:fR:139:THR:N	2.43	0.51
2:gq:81:GLU:OE1	2:gq:83:THR:HG23	2.11	0.51
2:gD:224:TRP:CZ2	2:gD:242:VAL:HG21	2.45	0.51
2:gH:300:THR:HG23	2:gH:303:LEU:CD2	2.40	0.51
2:gS:221:PHE:CG	2:gS:242:VAL:HG13	2.46	0.51
2:gW:196:THR:HG23	2:IU:63:ARG:HH12	1.76	0.51
1:gZ:82:ASP:OD1	1:gZ:83:GLY:N	2.41	0.51
1:hn:105:THR:CB	2:kS:60:ILE:HG12	2.41	0.51
2:hs:4:ILE:HG23	2:hs:5:THR:HG23	1.93	0.51
2:hs:30:THR:CG2	2:hs:298:LEU:HD13	2.40	0.51
2:ht:23:ALA:O	2:ht:24:LEU:HD22	2.10	0.51
1:hA:102:GLU:HB2	1:lO:99:LEU:CD2	2.33	0.51
2:il:138:ASP:OD1	2:il:139:THR:N	2.43	0.51
2:iy:274:ALA:CB	2:iy:297:VAL:HG21	2.40	0.51
1:iD:105:THR:CB	2:pw:60:ILE:HG12	2.40	0.51
2:iX:224:TRP:CZ2	2:iX:242:VAL:HG21	2.45	0.51
1:jg:103:ARG:NH1	2:lt:61:GLY:CA	2.70	0.51
1:jt:105:THR:CB	2:kd:60:ILE:HG12	2.41	0.51
2:jz:243:TYR:CE1	2:jz:294:LEU:HD21	2.46	0.51
2:jD:171:TYR:OH	2:jD:175:THR:OG1	2.12	0.51
2:jD:186:GLU:OE1	2:jD:186:GLU:N	2.44	0.51
2:jE:209:TYR:OH	2:pV:93:ASP:OD2	2.22	0.51
1:jH:99:LEU:CD2	1:oM:102:GLU:HB2	2.33	0.51
2:jM:30:THR:CG2	2:jM:298:LEU:HD13	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jN:280:VAL:O	2:jN:289:ASN:ND2	2.41	0.51
2:jO:81:GLU:OE1	2:jO:83:THR:HG23	2.11	0.51
2:jP:60:ILE:HG12	1:oM:105:THR:CB	2.41	0.51
2:jQ:274:ALA:CB	2:jQ:297:VAL:HG21	2.40	0.51
2:kc:23:ALA:O	2:kc:24:LEU:HD22	2.10	0.51
2:kr:274:ALA:HB1	2:kr:297:VAL:HG21	1.91	0.51
2:kC:2:ALA:N	1:kW:94:GLU:HG3	2.25	0.51
2:kR:221:PHE:CG	2:kR:242:VAL:HG13	2.46	0.51
2:ld:4:ILE:HG23	2:ld:5:THR:HG23	1.93	0.51
2:le:243:TYR:CE1	2:le:294:LEU:HD21	2.46	0.51
2:lH:61:GLY:HA3	1:mT:103:ARG:HG3	1.93	0.51
2:lT:179:LEU:HD13	2:lT:209:TYR:CE2	2.45	0.51
2:lX:107:GLY:CA	2:lX:184:TYR:HE1	2.22	0.51
2:mi:191:SER:HA	2:mv:192:PHE:CE1	2.44	0.51
2:ml:278:VAL:O	2:ml:278:VAL:HG23	2.10	0.51
1:mr:62:THR:OG1	1:mr:100:LYS:O	2.27	0.51
2:mv:30:THR:CG2	2:mv:298:LEU:HD13	2.40	0.51
2:mv:62:GLN:OE1	1:oA:102:GLU:CD	2.53	0.51
2:mx:9:ILE:HG22	2:mx:9:ILE:O	2.11	0.51
1:mD:57:VAL:HG22	1:mD:104:CYS:H	1.74	0.51
1:mG:60:ARG:HD3	1:ow:99:LEU:HD21	1.91	0.51
2:mO:138:ASP:OD1	2:mO:139:THR:N	2.43	0.51
2:mZ:81:GLU:OE1	2:mZ:83:THR:HG23	2.11	0.51
2:np:274:ALA:CB	2:np:297:VAL:HG21	2.40	0.51
2:oc:117:LEU:HD21	2:oc:211:TYR:HA	1.92	0.51
2:oq:274:ALA:HB1	2:oq:297:VAL:HG21	1.92	0.51
2:oD:179:LEU:HD13	2:oD:209:TYR:CE2	2.45	0.51
2:oF:221:PHE:CG	2:oF:242:VAL:HG13	2.46	0.51
2:oR:43:ALA:O	2:oR:44:SER:OG	2.20	0.51
2:oS:177:ARG:HH11	2:oS:213:VAL:HG21	1.75	0.51
2:oT:23:ALA:O	2:oT:24:LEU:HD22	2.10	0.51
2:pg:224:TRP:CZ2	2:pg:242:VAL:HG21	2.45	0.51
2:pj:278:VAL:O	2:pj:278:VAL:HG23	2.10	0.51
2:pZ:107:GLY:CA	2:pZ:184:TYR:HE1	2.22	0.51
2:pZ:274:ALA:CB	2:pZ:297:VAL:HG21	2.40	0.51
3:qi:62:HIS:HE1	4:qo:224:THR:HB	1.75	0.51
3:qi:66:GLN:O	4:qo:10:GLN:CG	2.59	0.51
4:qk:89:VAL:HG22	4:ql:245:ASP:CB	2.40	0.51
4:ql:179:THR:CG2	4:qm:247:GLY:CA	2.88	0.51
5:qp:42:PRO:HD2	6:qu:133:ASP:OD2	2.11	0.51
5:qp:229:ILE:HD13	5:qr:232:LEU:CD1	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qp:380:MET:SD	5:qp:384:ILE:HD11	2.50	0.51
5:qF:217:HIS:CE1	6:qI:138:TRP:CH2	2.99	0.51
5:qF:236:LEU:HD21	5:qH:266:ILE:HG12	1.93	0.51
5:qH:42:PRO:HD2	6:qM:133:ASP:OD2	2.11	0.51
2:ak:274:ALA:CB	2:ak:297:VAL:HG21	2.40	0.51
2:aw:60:ILE:HG12	1:hN:105:THR:CB	2.41	0.51
2:ay:300:THR:HG23	2:ay:303:LEU:CD2	2.40	0.51
2:aJ:12:LEU:HD11	2:kT:96:LEU:HB2	1.92	0.51
1:aO:99:LEU:HD21	1:iT:60:ARG:HD3	1.91	0.51
1:aO:102:GLU:OE2	1:iV:99:LEU:HD21	2.06	0.51
1:aR:103:ARG:HG3	2:bl:61:GLY:HA3	1.93	0.51
2:aY:50:LEU:HD11	2:aZ:98:VAL:HG12	1.92	0.51
2:ba:186:GLU:N	2:ba:186:GLU:OE1	2.44	0.51
2:bk:192:PHE:CZ	2:bp:196:THR:HG21	2.45	0.51
2:bp:196:THR:HG23	2:dr:63:ARG:HH12	1.76	0.51
1:bq:99:LEU:HD21	1:dn:60:ARG:HD3	1.91	0.51
2:by:243:TYR:CE1	2:by:294:LEU:HD21	2.46	0.51
2:by:274:ALA:HB1	2:by:297:VAL:HG21	1.92	0.51
2:bZ:82:SER:OG	2:iJ:56:LEU:HD22	2.11	0.51
2:ca:61:GLY:HA3	1:dm:103:ARG:HG3	1.93	0.51
2:cm:179:LEU:HD13	2:cm:209:TYR:CE2	2.45	0.51
2:co:221:PHE:CG	2:co:242:VAL:HG13	2.46	0.51
2:co:243:TYR:O	2:co:247:ARG:HG2	2.11	0.51
2:cC:243:TYR:O	2:cC:247:ARG:HG2	2.11	0.51
2:cG:196:THR:HG23	2:cP:63:ARG:HH12	1.76	0.51
2:cP:191:SER:HA	2:eW:192:PHE:CE1	2.44	0.51
2:cS:274:ALA:HB1	2:cS:297:VAL:HG21	1.91	0.51
2:cT:197:LYS:HE3	2:pL:62:GLN:HG2	1.91	0.51
1:cV:100:LYS:CD	1:eV:100:LYS:NZ	2.71	0.51
2:dr:177:ARG:HH11	2:dr:213:VAL:HG21	1.75	0.51
2:ds:81:GLU:OE1	2:ds:83:THR:HG23	2.11	0.51
2:ds:260:ARG:O	2:ds:260:ARG:HG2	2.09	0.51
2:dv:186:GLU:OE1	2:dv:186:GLU:N	2.44	0.51
2:dI:107:GLY:CA	2:dI:184:TYR:HE1	2.22	0.51
2:dT:280:VAL:O	2:dT:289:ASN:ND2	2.41	0.51
2:dW:274:ALA:HB1	2:dW:297:VAL:HG21	1.91	0.51
1:ea:100:LYS:HB2	1:mf:100:LYS:HE3	1.92	0.51
2:ei:9:ILE:HG22	2:ei:9:ILE:O	2.11	0.51
2:em:196:THR:HG23	2:ev:63:ARG:HH12	1.76	0.51
2:ev:44:SER:OG	2:ev:75:ILE:O	2.21	0.51
2:eK:12:LEU:HD11	2:ik:96:LEU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eY:221:PHE:CG	2:eY:242:VAL:HG13	2.46	0.51
2:fb:300:THR:HG23	2:fb:303:LEU:CD2	2.40	0.51
1:fg:99:LEU:CA	2:ii:197:LYS:HZ2	2.24	0.51
2:fq:196:THR:HG23	2:nA:63:ARG:HH12	1.76	0.51
2:fy:192:PHE:CE1	2:nm:191:SER:HA	2.44	0.51
2:fD:300:THR:HG23	2:fD:303:LEU:CD2	2.40	0.51
1:fJ:100:LYS:H	2:lU:197:LYS:HE2	0.68	0.51
2:fM:30:THR:CG2	2:fM:298:LEU:HD13	2.40	0.51
2:fM:190:PRO:HG3	2:lZ:185:GLN:OE1	2.10	0.51
2:fN:2:ALA:N	1:gh:94:GLU:HG3	2.25	0.51
2:gb:243:TYR:CE1	2:gb:294:LEU:HD21	2.46	0.51
2:gc:9:ILE:O	2:gc:9:ILE:HG22	2.11	0.51
2:gf:138:ASP:OD1	2:gf:139:THR:N	2.43	0.51
2:gp:63:ARG:HH12	2:hY:196:THR:HG23	1.76	0.51
2:gs:274:ALA:CB	2:gs:297:VAL:HG21	2.40	0.51
2:gC:4:ILE:HG23	2:gC:5:THR:HG23	1.93	0.51
2:gD:192:PHE:CZ	2:gI:196:THR:HG21	2.45	0.51
2:gE:81:GLU:O	2:gG:57:ARG:N	2.39	0.51
2:gE:81:GLU:OE1	2:gE:83:THR:HG23	2.11	0.51
2:hs:182:LEU:HD13	5:qB:176:ASN:HD22	1.75	0.51
2:ht:81:GLU:OE1	2:ht:83:THR:HG23	2.11	0.51
2:hv:274:ALA:HB1	2:hv:297:VAL:HG21	1.91	0.51
2:hF:179:LEU:HD13	2:hF:209:TYR:CE2	2.45	0.51
2:hG:221:PHE:CG	2:hG:242:VAL:HG13	2.46	0.51
2:hH:60:ILE:HG12	1:kw:105:THR:CB	2.41	0.51
2:iw:221:PHE:CG	2:iw:242:VAL:HG13	2.46	0.51
2:iX:117:LEU:HD21	2:iX:211:TYR:HA	1.92	0.51
2:iY:81:GLU:OE1	2:iY:83:THR:HG23	2.11	0.51
2:jp:138:ASP:OD1	2:jp:139:THR:N	2.43	0.51
2:ka:13:LYS:NZ	2:lu:93:ASP:OD1	2.42	0.51
2:kb:192:PHE:CZ	2:kg:196:THR:HG21	2.45	0.51
2:kc:243:TYR:O	2:kc:247:ARG:HG2	2.11	0.51
2:ke:96:LEU:HB2	2:mZ:12:LEU:HD11	1.92	0.51
2:kB:179:LEU:HD13	2:kB:209:TYR:CE2	2.45	0.51
2:kD:221:PHE:CG	2:kD:242:VAL:HG13	2.46	0.51
2:kQ:2:ALA:N	1:ne:94:GLU:HG3	2.25	0.51
2:kU:300:THR:HG23	2:kU:303:LEU:CD2	2.40	0.51
2:ld:43:ALA:O	2:ld:44:SER:OG	2.20	0.51
2:lf:81:GLU:OE1	2:lf:83:THR:HG23	2.11	0.51
2:lh:96:LEU:HB2	2:lH:12:LEU:HD11	1.92	0.51
2:lh:274:ALA:CB	2:lh:297:VAL:HG21	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lm:102:GLU:HB2	1:pQ:99:LEU:CD2	2.33	0.51
2:lt:9:ILE:O	2:lt:9:ILE:HG22	2.11	0.51
2:lu:50:LEU:HD11	2:lv:98:VAL:HG12	1.92	0.51
2:lv:96:LEU:HB2	2:pX:12:LEU:HD11	1.92	0.51
2:lG:280:VAL:O	2:lG:289:ASN:ND2	2.41	0.51
2:lH:243:TYR:O	2:lH:247:ARG:HG2	2.11	0.51
2:lK:186:GLU:N	2:lK:186:GLU:OE1	2.44	0.51
2:lU:192:PHE:CZ	2:lZ:196:THR:HG21	2.45	0.51
2:mi:274:ALA:HB1	2:mi:297:VAL:HG21	1.92	0.51
2:mk:60:ILE:HG12	1:nu:105:THR:CB	2.41	0.51
2:mv:4:ILE:HG23	2:mv:5:THR:HG23	1.93	0.51
1:mE:82:ASP:OD1	1:mE:83:GLY:N	2.41	0.51
2:mK:192:PHE:CZ	2:mP:196:THR:HG21	2.45	0.51
2:mL:23:ALA:O	2:mL:24:LEU:HD22	2.10	0.51
2:mO:197:LYS:HE3	2:oV:62:GLN:HG2	1.91	0.51
1:mS:82:ASP:OD1	1:mS:83:GLY:N	2.41	0.51
2:mX:4:ILE:HG23	2:mX:5:THR:HG23	1.93	0.51
2:nl:30:THR:CG2	2:nl:298:LEU:HD13	2.40	0.51
2:nn:9:ILE:HG22	2:nn:9:ILE:O	2.11	0.51
2:nz:179:LEU:HD13	2:nz:209:TYR:CE2	2.45	0.51
2:nB:9:ILE:HG22	2:nB:9:ILE:O	2.11	0.51
2:nD:274:ALA:HB1	2:nD:297:VAL:HG21	1.91	0.51
2:nO:243:TYR:CE1	2:nO:294:LEU:HD21	2.46	0.51
2:nP:243:TYR:O	2:nP:247:ARG:HG2	2.11	0.51
2:nQ:196:THR:HG21	2:og:192:PHE:CZ	2.42	0.51
2:or:81:GLU:OE1	2:or:83:THR:HG23	2.11	0.51
2:oF:224:TRP:HZ2	2:oF:242:VAL:HG11	1.75	0.51
2:pt:4:ILE:HG23	2:pt:5:THR:HG23	1.93	0.51
2:pu:243:TYR:CE1	2:pu:294:LEU:HD21	2.46	0.51
2:pH:4:ILE:HG23	2:pH:5:THR:HG23	1.93	0.51
2:pI:177:ARG:HH11	2:pI:213:VAL:HG21	1.75	0.51
2:pI:224:TRP:CZ2	2:pI:242:VAL:HG21	2.45	0.51
2:pZ:274:ALA:HB1	2:pZ:297:VAL:HG21	1.92	0.51
2:pZ:278:VAL:HG23	2:pZ:278:VAL:O	2.10	0.51
3:qf:66:GLN:C	4:ql:8:TYR:HD2	2.18	0.51
3:qi:66:GLN:CA	4:qo:194:LEU:HD12	2.24	0.51
5:qp:227:LEU:HD21	5:qL:284:PRO:HB2	1.93	0.51
6:qq:133:ASP:OD2	5:qJ:42:PRO:HD2	2.11	0.51
6:qs:133:ASP:OD2	5:qL:42:PRO:HD2	2.11	0.51
5:qt:362:ARG:CG	5:qv:115:ASP:HB3	2.39	0.51
5:qx:217:HIS:CE1	6:qA:138:TRP:CH2	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qz:42:PRO:HD2	6:qE:133:ASP:OD2	2.11	0.51
6:qC:122:ALA:O	6:qC:126:GLN:NE2	2.40	0.51
5:qJ:217:HIS:CE1	6:qM:138:TRP:CH2	2.99	0.51
1:ab:105:THR:CB	2:mM:60:ILE:HG12	2.40	0.51
2:ah:2:ALA:N	1:oY:94:GLU:HG3	2.25	0.51
2:ah:197:LYS:HE2	1:oO:100:LYS:H	0.69	0.51
2:ah:243:TYR:CE1	2:ah:294:LEU:HD21	2.46	0.51
2:ai:9:ILE:HG22	2:ai:9:ILE:O	2.11	0.51
2:al:186:GLU:N	2:al:186:GLU:OE1	2.44	0.51
1:an:99:LEU:HD21	1:oO:60:ARG:HD3	1.91	0.51
1:aA:100:LYS:CG	1:kn:100:LYS:HZ1	2.16	0.51
2:aH:197:LYS:NZ	1:kh:100:LYS:HD2	2.24	0.51
1:bd:100:LYS:HB2	1:ji:100:LYS:HE3	1.92	0.51
2:bl:235:ASN:ND2	2:bl:283:LEU:HD11	2.26	0.51
1:bt:62:THR:OG1	1:bt:100:LYS:O	2.27	0.51
2:by:56:LEU:HD22	2:dd:82:SER:OG	2.11	0.51
1:bF:100:LYS:HB2	1:lR:100:LYS:HE3	1.92	0.51
2:bO:278:VAL:O	2:bO:278:VAL:HG23	2.11	0.51
2:bP:138:ASP:OD1	2:bP:139:THR:N	2.43	0.51
1:bV:100:LYS:H	2:dr:197:LYS:HE2	0.69	0.51
2:bY:4:ILE:HG23	2:bY:5:THR:HG23	1.93	0.51
2:ca:81:GLU:O	2:cc:57:ARG:N	2.39	0.51
2:cn:243:TYR:CE1	2:cn:294:LEU:HD21	2.46	0.51
2:co:9:ILE:O	2:co:9:ILE:HG22	2.11	0.51
2:cB:177:ARG:HH11	2:cB:213:VAL:HG21	1.75	0.51
2:cC:221:PHE:CG	2:cC:242:VAL:HG13	2.46	0.51
1:cJ:105:THR:CB	2:iL:60:ILE:HG12	2.41	0.51
2:cT:138:ASP:OD1	2:cT:139:THR:N	2.43	0.51
2:dd:117:LEU:HD21	2:dd:211:TYR:CA	2.40	0.51
2:dd:177:ARG:HH11	2:dd:213:VAL:HG21	1.75	0.51
2:de:221:PHE:CG	2:de:242:VAL:HG13	2.46	0.51
2:dv:197:LYS:HZ1	2:kr:62:GLN:HE21	1.58	0.51
2:dE:30:THR:CG2	2:dE:298:LEU:HD13	2.40	0.51
2:dE:179:LEU:HD13	2:dE:209:TYR:CE2	2.45	0.51
2:dT:63:ARG:HH12	2:oX:196:THR:HG23	1.76	0.51
1:eq:103:ARG:HG3	2:gE:61:GLY:HA3	1.93	0.51
2:ev:280:VAL:O	2:ev:289:ASN:ND2	2.41	0.51
2:ew:221:PHE:CG	2:ew:242:VAL:HG13	2.46	0.51
2:ey:274:ALA:CB	2:ey:297:VAL:HG21	2.40	0.51
1:eB:99:LEU:HD21	1:gZ:60:ARG:HD3	1.91	0.51
1:eC:100:LYS:HB2	1:gO:100:LYS:HE3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eJ:63:ARG:HH12	2:gu:196:THR:HG23	1.76	0.51
2:eJ:243:TYR:CE1	2:eJ:294:LEU:HD21	2.46	0.51
2:eN:280:VAL:O	2:eN:289:ASN:ND2	2.44	0.51
2:eW:30:THR:CG2	2:eW:298:LEU:HD13	2.40	0.51
2:eX:224:TRP:CZ2	2:eX:242:VAL:HG21	2.45	0.51
2:fk:4:ILE:HG23	2:fk:5:THR:HG23	1.93	0.51
2:fk:30:THR:CG2	2:fk:298:LEU:HD13	2.40	0.51
2:fl:243:TYR:CE1	2:fl:294:LEU:HD21	2.46	0.51
1:ft:82:ASP:OD1	1:ft:83:GLY:N	2.41	0.51
2:fA:9:ILE:O	2:fA:9:ILE:HG22	2.11	0.51
1:fF:94:GLU:HG3	2:nm:2:ALA:N	2.25	0.51
2:fM:4:ILE:HG23	2:fM:5:THR:HG23	1.93	0.51
2:ga:4:ILE:HG23	2:ga:5:THR:HG23	1.93	0.51
2:gt:300:THR:HG23	2:gt:303:LEU:CD2	2.40	0.51
1:gA:105:THR:HG21	2:pj:60:ILE:CG2	2.39	0.51
2:gG:274:ALA:CB	2:gG:297:VAL:HG21	2.40	0.51
2:gH:186:GLU:N	2:gH:186:GLU:OE1	2.44	0.51
2:gR:197:LYS:HE2	1:lQ:100:LYS:H	0.69	0.51
1:hc:105:THR:HG21	2:oH:60:ILE:CG2	2.39	0.51
2:hF:82:SER:OG	2:kC:56:LEU:HD22	2.10	0.51
1:hm:100:LYS:HB2	1:iU:100:LYS:HE3	1.92	0.51
2:ht:61:GLY:HA3	1:kk:103:ARG:HG3	1.93	0.51
2:hv:274:ALA:CB	2:hv:297:VAL:HG21	2.40	0.51
2:hv:278:VAL:HG23	2:hv:278:VAL:O	2.10	0.51
2:hU:221:PHE:CG	2:hU:242:VAL:HG13	2.46	0.51
2:ig:179:LEU:HD13	2:ig:209:TYR:CE2	2.45	0.51
1:is:105:THR:HG21	2:ot:60:ILE:CG2	2.39	0.51
2:iw:243:TYR:O	2:iw:247:ARG:HG2	2.11	0.51
2:ix:50:LEU:HD11	2:iy:98:VAL:HG12	1.92	0.51
2:iK:224:TRP:HZ2	2:iK:242:VAL:HG11	1.75	0.51
2:iK:260:ARG:O	2:iK:260:ARG:HG2	2.09	0.51
2:iM:278:VAL:HG23	2:iM:278:VAL:O	2.11	0.51
2:jb:186:GLU:OE1	2:jb:186:GLU:N	2.43	0.51
2:jl:197:LYS:HE2	1:lo:100:LYS:H	0.69	0.51
2:jq:196:THR:HG23	2:ls:63:ARG:HH12	1.76	0.51
1:jv:100:LYS:H	2:le:197:LYS:HE2	0.68	0.51
2:jy:30:THR:CG2	2:jy:298:LEU:HD13	2.40	0.51
2:jj:93:ASP:OD2	2:lj:209:TYR:OH	2.22	0.51
2:jz:224:TRP:CZ2	2:jz:242:VAL:HG21	2.45	0.51
1:jL:99:LEU:HG	1:pO:102:GLU:OE2	1.74	0.51
2:jN:56:LEU:HD22	2:pI:82:SER:OG	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jO:9:ILE:O	2:jO:9:ILE:HG22	2.11	0.51
2:jO:221:PHE:CG	2:jO:242:VAL:HG13	2.46	0.51
2:kb:243:TYR:CE1	2:kb:294:LEU:HD21	2.46	0.51
2:kC:205:MET:CE	2:kQ:63:ARG:NE	2.74	0.51
2:kD:243:TYR:O	2:kD:247:ARG:HG2	2.11	0.51
1:kL:103:ARG:HG3	2:mZ:61:GLY:HA3	1.93	0.51
2:kP:38:ILE:O	2:kP:38:ILE:HG13	2.11	0.51
2:kR:81:GLU:OE1	2:kR:83:THR:HG23	2.11	0.51
2:kR:243:TYR:O	2:kR:247:ARG:HG2	2.11	0.51
2:ls:224:TRP:CZ2	2:ls:242:VAL:HG21	2.45	0.51
2:lw:300:THR:HG23	2:lw:303:LEU:CD2	2.40	0.51
1:lz:57:VAL:HG22	1:lz:104:CYS:H	1.75	0.51
2:lF:4:ILE:HG23	2:lF:5:THR:HG23	1.93	0.51
2:lG:63:ARG:HH12	2:nd:196:THR:HG23	1.76	0.51
2:lJ:96:LEU:HB2	2:oF:12:LEU:HD11	1.92	0.51
2:lK:138:ASP:OD1	2:lK:139:THR:N	2.43	0.51
2:mm:186:GLU:N	2:mm:186:GLU:OE1	2.43	0.51
2:mm:300:THR:HG23	2:mm:303:LEU:CD2	2.40	0.51
2:mx:81:GLU:OE1	2:mx:83:THR:HG23	2.11	0.51
2:my:196:THR:O	2:oF:63:ARG:HD3	2.11	0.51
1:mF:62:THR:OG1	1:mF:100:LYS:O	2.27	0.51
2:mL:235:ASN:ND2	2:mL:283:LEU:HD11	2.26	0.51
2:na:50:LEU:HD11	2:nb:98:VAL:HG12	1.92	0.51
2:nb:274:ALA:HB1	2:nb:297:VAL:HG21	1.91	0.51
2:nm:177:ARG:HH11	2:nm:213:VAL:HG21	1.75	0.51
2:nn:221:PHE:CG	2:nn:242:VAL:HG13	2.46	0.51
2:nA:280:VAL:O	2:nA:289:ASN:ND2	2.41	0.51
2:nC:50:LEU:HD11	2:nD:98:VAL:HG12	1.92	0.51
2:nO:191:SER:HA	2:ob:192:PHE:CE1	2.44	0.51
2:nS:186:GLU:N	2:nS:186:GLU:OE1	2.43	0.51
2:oc:224:TRP:CZ2	2:oc:242:VAL:HG21	2.45	0.51
2:od:221:PHE:CG	2:od:242:VAL:HG13	2.46	0.51
2:od:243:TYR:O	2:od:247:ARG:HG2	2.11	0.51
2:or:243:TYR:O	2:or:247:ARG:HG2	2.11	0.51
2:oI:186:GLU:N	2:oI:186:GLU:OE1	2.44	0.51
1:oZ:57:VAL:HG22	1:oZ:104:CYS:H	1.75	0.51
2:pf:30:THR:CG2	2:pf:298:LEU:HD13	2.40	0.51
2:pj:107:GLY:CA	2:pj:184:TYR:HE1	2.22	0.51
2:pu:2:ALA:N	1:pO:94:GLU:HG3	2.25	0.51
2:pV:235:ASN:ND2	2:pV:283:LEU:HD11	2.26	0.51
2:px:107:GLY:CA	2:px:184:TYR:HE1	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:px:274:ALA:CB	2:px:297:VAL:HG21	2.40	0.51
2:py:186:GLU:N	2:py:186:GLU:OE1	2.44	0.51
2:pI:243:TYR:CE1	2:pI:294:LEU:HD21	2.46	0.51
2:pJ:81:GLU:OE1	2:pJ:83:THR:HG23	2.11	0.51
2:pK:50:LEU:HD11	2:pL:98:VAL:HG12	1.92	0.51
2:qa:186:GLU:N	2:qa:186:GLU:OE1	2.43	0.51
5:qz:207:ARG:NE	5:qB:69:GLU:OE2	2.43	0.51
5:qz:252:LEU:CD2	6:qC:126:GLN:HG2	2.36	0.51
5:qF:217:HIS:HE1	6:qI:138:TRP:CH2	2.28	0.51
2:ag:4:ILE:HG23	2:ag:5:THR:HG23	1.93	0.51
2:ah:82:SER:OG	2:oS:56:LEU:HD22	2.11	0.51
2:ai:81:GLU:OE1	2:ai:83:THR:HG23	2.11	0.51
2:am:196:THR:HG23	2:oS:63:ARG:HH12	1.76	0.51
1:an:102:GLU:CG	1:oQ:99:LEU:HD23	2.19	0.51
2:au:30:THR:CG2	2:au:298:LEU:HD13	2.40	0.51
2:av:61:GLY:HA3	1:bH:103:ARG:HG3	1.93	0.51
2:az:36:THR:O	2:az:175:THR:OG1	2.18	0.51
1:aE:100:LYS:H	2:kb:197:LYS:HE2	0.68	0.51
2:aJ:81:GLU:OE1	2:aJ:83:THR:HG23	2.11	0.51
2:aL:274:ALA:CB	2:aL:297:VAL:HG21	2.40	0.51
2:aN:196:THR:HG23	2:iX:63:ARG:HH12	1.76	0.51
2:aW:280:VAL:O	2:aW:289:ASN:ND2	2.41	0.51
2:aX:235:ASN:ND2	2:aX:283:LEU:HD11	2.26	0.51
2:aY:60:ILE:HG12	1:ch:105:THR:CB	2.40	0.51
1:be:102:GLU:OE1	1:kj:99:LEU:CA	2.28	0.51
2:bj:30:THR:CG2	2:bj:298:LEU:HD13	2.40	0.51
2:bk:243:TYR:CE1	2:bk:294:LEU:HD21	2.46	0.51
2:bl:81:GLU:OE1	2:bl:83:THR:HG23	2.11	0.51
2:bo:300:THR:HG23	2:bo:303:LEU:CD2	2.40	0.51
1:br:100:LYS:HB2	1:dC:100:LYS:HE3	1.92	0.51
2:bz:235:ASN:ND2	2:bz:283:LEU:HD11	2.26	0.51
2:bB:278:VAL:O	2:bB:278:VAL:HG23	2.11	0.51
1:bG:105:THR:CB	2:gr:60:ILE:HG12	2.40	0.51
2:bM:281:GLN:OE1	2:bM:281:GLN:N	2.44	0.51
1:bU:82:ASP:OD1	1:bU:83:GLY:N	2.43	0.51
2:bZ:177:ARG:HH11	2:bZ:213:VAL:HG21	1.75	0.51
2:bZ:280:VAL:O	2:bZ:289:ASN:ND2	2.41	0.51
2:ca:243:TYR:O	2:ca:247:ARG:HG2	2.11	0.51
2:cd:197:LYS:HZ1	2:hW:62:GLN:HE21	1.58	0.51
2:cn:82:SER:OG	2:pu:56:LEU:HD22	2.10	0.51
1:cv:99:LEU:HD21	1:dN:60:ARG:HH21	0.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cC:81:GLU:OE1	2:cC:83:THR:HG23	2.11	0.51
2:cF:138:ASP:OD1	2:cF:139:THR:N	2.43	0.51
2:cP:82:SER:OG	2:eX:56:LEU:HD22	2.11	0.51
2:dd:56:LEU:HD22	2:eJ:82:SER:OG	2.11	0.51
2:de:9:ILE:O	2:de:9:ILE:HG22	2.11	0.51
2:de:243:TYR:O	2:de:247:ARG:HG2	2.11	0.51
1:dm:62:THR:OG1	1:dm:100:LYS:O	2.27	0.51
1:dz:105:THR:CB	2:gF:60:ILE:HG12	2.40	0.51
2:dF:197:LYS:HE2	1:pc:100:LYS:H	0.68	0.51
2:dG:9:ILE:HG22	2:dG:9:ILE:O	2.11	0.51
1:dP:100:LYS:H	2:oS:197:LYS:HE2	0.68	0.51
2:dU:235:ASN:ND2	2:dU:283:LEU:HD11	2.26	0.51
2:dX:186:GLU:N	2:dX:186:GLU:OE1	2.44	0.51
1:dZ:94:GLU:HG3	2:oS:2:ALA:N	2.25	0.51
1:ed:100:LYS:H	2:nA:197:LYS:HE2	0.68	0.51
2:eh:243:TYR:CE1	2:eh:294:LEU:HD21	2.46	0.51
2:ei:12:LEU:HD11	2:fC:96:LEU:HB2	1.92	0.51
2:ei:281:GLN:OE1	2:ei:281:GLN:N	2.44	0.51
2:ew:9:ILE:O	2:ew:9:ILE:HG22	2.11	0.51
2:ez:280:VAL:O	2:ez:289:ASN:ND2	2.44	0.51
2:eJ:56:LEU:HD22	2:gp:82:SER:OG	2.10	0.51
2:eK:81:GLU:OE1	2:eK:83:THR:HG23	2.11	0.51
2:eW:4:ILE:HG23	2:eW:5:THR:HG23	1.93	0.51
2:eW:38:ILE:O	2:eW:38:ILE:HG13	2.11	0.51
2:eY:243:TYR:O	2:eY:247:ARG:HG2	2.11	0.51
2:fb:186:GLU:OE1	2:fb:186:GLU:N	2.44	0.51
2:fl:280:VAL:O	2:fl:289:ASN:ND2	2.41	0.51
2:fp:186:GLU:N	2:fp:186:GLU:OE1	2.44	0.51
2:fD:186:GLU:N	2:fD:186:GLU:OE1	2.44	0.51
2:fN:44:SER:OG	2:fN:75:ILE:O	2.21	0.51
2:fN:113:HIS:HB2	2:gb:56:LEU:HD12	1.93	0.51
2:fO:63:ARG:NH2	2:fr:205:MET:SD	2.84	0.51
2:gd:50:LEU:HD11	2:ge:98:VAL:HG12	1.92	0.51
2:gs:96:LEU:HB2	2:gS:12:LEU:HD11	1.92	0.51
2:gR:2:ALA:N	1:ma:94:GLU:HG3	2.25	0.51
2:gS:81:GLU:OE1	2:gS:83:THR:HG23	2.11	0.51
2:gS:243:TYR:O	2:gS:247:ARG:HG2	2.11	0.51
2:gU:274:ALA:CB	2:gU:297:VAL:HG21	2.40	0.51
2:hi:274:ALA:HB1	2:hi:297:VAL:HG21	1.91	0.51
2:hj:233:GLU:O	2:hj:237:VAL:HG13	2.11	0.51
2:hk:185:GLN:OE1	2:kB:190:PRO:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hk:196:THR:HG23	2:kC:63:ARG:HH12	1.76	0.51
2:ht:9:ILE:HG22	2:ht:9:ILE:O	2.11	0.51
2:ht:235:ASN:ND2	2:ht:283:LEU:HD11	2.26	0.51
2:ht:243:TYR:O	2:ht:247:ARG:HG2	2.11	0.51
1:hA:98:LEU:HD23	2:hH:63:ARG:O	2.11	0.51
2:hG:9:ILE:O	2:hG:9:ILE:HG22	2.11	0.51
2:hI:107:GLY:CA	2:hI:184:TYR:HE1	2.22	0.51
2:hX:186:GLU:OE1	2:hX:186:GLU:N	2.44	0.51
2:il:233:GLU:O	2:il:237:VAL:HG13	2.11	0.51
2:iJ:177:ARG:HH11	2:iJ:213:VAL:HG21	1.75	0.51
2:iW:30:THR:CG2	2:iW:298:LEU:HD13	2.40	0.51
2:iZ:100:GLY:N	2:iZ:101:PRO:CD	2.74	0.51
1:jw:105:THR:HG21	2:lJ:60:ILE:CG2	2.39	0.51
2:jy:190:PRO:HG3	2:lj:185:GLN:OE1	2.10	0.51
2:jB:93:ASP:OD1	2:pV:13:LYS:NZ	2.41	0.51
1:jI:82:ASP:OD1	1:jI:83:GLY:N	2.43	0.51
1:jJ:102:GLU:HG2	2:pH:62:GLN:OE1	2.02	0.51
2:jO:63:ARG:HD3	2:pK:196:THR:O	2.11	0.51
2:jR:192:PHE:CZ	2:pK:196:THR:HG21	2.42	0.51
2:kc:61:GLY:HA3	1:ln:103:ARG:HG3	1.93	0.51
2:kp:281:GLN:OE1	2:kp:281:GLN:N	2.44	0.51
2:kB:30:THR:CG2	2:kB:298:LEU:HD13	2.40	0.51
2:kC:184:TYR:HH	2:kC:204:PHE:HD1	1.50	0.51
2:kD:224:TRP:HZ2	2:kD:242:VAL:HG11	1.75	0.51
2:kG:186:GLU:N	2:kG:186:GLU:OE1	2.44	0.51
2:kP:4:ILE:HG23	2:kP:5:THR:HG23	1.93	0.51
2:kT:274:ALA:HB1	2:kT:297:VAL:HG21	1.91	0.51
2:lg:50:LEU:HD11	2:lh:98:VAL:HG12	1.92	0.51
2:lg:60:ILE:HG12	1:oy:105:THR:CB	2.40	0.51
2:lr:4:ILE:HG23	2:lr:5:THR:HG23	1.93	0.51
2:lt:81:GLU:OE1	2:lt:83:THR:HG23	2.11	0.51
2:lt:221:PHE:CG	2:lt:242:VAL:HG13	2.46	0.51
2:lt:243:TYR:O	2:lt:247:ARG:HG2	2.11	0.51
2:lw:138:ASP:OD1	2:lw:139:THR:N	2.43	0.51
1:lA:60:ARG:HH21	1:oy:99:LEU:HD21	0.59	0.51
2:lH:23:ALA:O	2:lH:24:LEU:HD22	2.10	0.51
2:mj:243:TYR:O	2:mj:247:ARG:HG2	2.11	0.51
2:mx:235:ASN:ND2	2:mx:283:LEU:HD11	2.26	0.51
1:mE:105:THR:CB	2:no:60:ILE:HG12	2.41	0.51
2:mK:243:TYR:CE1	2:mK:294:LEU:HD21	2.46	0.51
2:mZ:243:TYR:O	2:mZ:247:ARG:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nn:63:ARG:NH2	2:nq:205:MET:SD	2.84	0.51
2:nq:300:THR:HG23	2:nq:303:LEU:CD2	2.40	0.51
1:nH:57:VAL:HG22	1:nH:104:CYS:H	1.75	0.51
2:of:274:ALA:CB	2:of:297:VAL:HG21	2.40	0.51
2:oq:63:ARG:HH12	2:qb:196:THR:HG23	1.76	0.51
2:oF:81:GLU:OE1	2:oF:83:THR:HG23	2.11	0.51
2:oT:221:PHE:CG	2:oT:242:VAL:HG13	2.46	0.51
2:oV:107:GLY:CA	2:oV:184:TYR:HE1	2.22	0.51
2:pf:179:LEU:HD13	2:pf:209:TYR:CE2	2.45	0.51
2:pg:192:PHE:CZ	2:pl:196:THR:HG21	2.45	0.51
2:pu:224:TRP:CZ2	2:pu:242:VAL:HG21	2.45	0.51
2:px:278:VAL:O	2:px:278:VAL:HG23	2.10	0.51
2:py:138:ASP:OD1	2:py:139:THR:N	2.43	0.51
1:pB:57:VAL:HG22	1:pB:104:CYS:H	1.74	0.51
2:pJ:9:ILE:O	2:pJ:9:ILE:HG22	2.11	0.51
2:pX:235:ASN:ND2	2:pX:283:LEU:HD11	2.26	0.51
2:qa:280:VAL:O	2:qa:289:ASN:ND2	2.44	0.51
3:qg:12:PRO:HA	3:qg:15:ILE:HB	1.93	0.51
3:qh:55:GLU:OE1	4:qj:223:ASN:HB3	2.11	0.51
3:qh:66:GLN:C	4:qj:8:TYR:CD2	2.88	0.51
4:qk:188:ARG:NE	4:qk:204:GLU:OE1	2.43	0.51
5:qp:284:PRO:HB2	5:qr:227:LEU:HD21	1.93	0.51
5:qv:236:LEU:HD21	5:qx:266:ILE:HG12	1.93	0.51
5:qv:238:LYS:HE3	5:qx:268:GLU:HA	1.93	0.51
5:qx:236:LEU:HD21	5:qz:266:ILE:HG12	1.92	0.51
5:qz:229:ILE:HD13	5:qB:232:LEU:CD1	2.39	0.51
5:qB:140:GLU:O	5:qB:151:LEU:N	2.39	0.51
5:qD:234:ILE:HG23	5:qF:262:ALA:O	2.11	0.51
5:qF:362:ARG:CG	5:qH:115:ASP:HB3	2.39	0.51
5:qH:284:PRO:HB2	5:qJ:227:LEU:HD21	1.93	0.51
5:qJ:284:PRO:HB2	5:qL:227:LEU:HD21	1.93	0.51
5:qL:380:MET:SD	5:qL:384:ILE:HD11	2.50	0.51
1:ab:102:GLU:HB2	1:mE:99:LEU:CD2	2.33	0.51
2:ag:179:LEU:HD13	2:ag:209:TYR:CE2	2.45	0.51
2:ai:221:PHE:CG	2:ai:242:VAL:HG13	2.46	0.51
2:ai:224:TRP:HZ2	2:ai:242:VAL:HG11	1.75	0.51
2:av:221:PHE:CG	2:av:242:VAL:HG13	2.46	0.51
2:aw:93:ASP:OD1	2:ko:13:LYS:NZ	2.41	0.51
2:ay:197:LYS:HZ1	2:gs:62:GLN:HE21	1.57	0.51
1:aF:100:LYS:HE3	1:mR:100:LYS:HB2	1.92	0.51
2:aI:113:HIS:HB2	2:iX:56:LEU:HD12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aJ:221:PHE:CG	2:aJ:242:VAL:HG13	2.46	0.51
2:aJ:235:ASN:ND2	2:aJ:283:LEU:HD11	2.26	0.51
2:aL:96:LEU:HB2	2:ht:12:LEU:HD11	1.92	0.51
2:aV:30:THR:CG2	2:aV:298:LEU:HD13	2.40	0.51
2:aX:221:PHE:CG	2:aX:242:VAL:HG13	2.46	0.51
2:aX:243:TYR:O	2:aX:247:ARG:HG2	2.11	0.51
2:bn:60:ILE:CG2	1:ji:105:THR:HG21	2.38	0.51
2:bx:4:ILE:HG23	2:bx:5:THR:HG23	1.93	0.51
2:bx:30:THR:CG2	2:bx:298:LEU:HD13	2.40	0.51
2:by:2:ALA:N	1:hZ:94:GLU:HG3	2.25	0.51
2:by:224:TRP:CZ2	2:by:242:VAL:HG21	2.45	0.51
2:bD:185:GLN:OE1	2:hS:190:PRO:HG3	2.10	0.51
2:bD:209:TYR:OH	2:hS:93:ASP:OD2	2.22	0.51
2:bZ:63:ARG:NE	2:dr:205:MET:CE	2.74	0.51
2:bZ:63:ARG:HH12	2:dw:196:THR:HG23	1.76	0.51
2:ca:63:ARG:HD3	2:dt:196:THR:O	2.11	0.51
2:cc:274:ALA:CB	2:cc:297:VAL:HG21	2.40	0.51
2:cd:186:GLU:N	2:cd:186:GLU:OE1	2.44	0.51
1:ch:98:LEU:HD23	2:cp:63:ARG:O	2.11	0.51
1:cj:100:LYS:H	2:iv:197:LYS:HE2	0.68	0.51
2:cm:4:ILE:HG23	2:cm:5:THR:HG23	1.93	0.51
2:cs:196:THR:HG23	2:pu:63:ARG:HH12	1.76	0.51
1:ct:102:GLU:OE2	1:ps:99:LEU:HG	1.74	0.51
2:cA:43:ALA:O	2:cA:44:SER:OG	2.20	0.51
2:cB:117:LEU:HD21	2:cB:211:TYR:HA	1.92	0.51
2:cC:281:GLN:N	2:cC:281:GLN:OE1	2.44	0.51
2:cE:274:ALA:CB	2:cE:297:VAL:HG21	2.40	0.51
2:cE:278:VAL:O	2:cE:278:VAL:HG23	2.10	0.51
1:cH:100:LYS:CD	1:cN:100:LYS:NZ	2.71	0.51
1:cK:82:ASP:OD1	1:cK:83:GLY:N	2.43	0.51
2:cR:50:LEU:HD11	2:cS:98:VAL:HG12	1.92	0.51
2:cU:185:GLN:OE1	2:eW:190:PRO:HG3	2.10	0.51
2:dc:190:PRO:HG3	2:eO:185:GLN:OE1	2.10	0.51
2:de:281:GLN:OE1	2:de:281:GLN:N	2.44	0.51
2:dh:138:ASP:OD1	2:dh:139:THR:N	2.43	0.51
2:dr:280:VAL:O	2:dr:289:ASN:ND2	2.41	0.51
2:ds:221:PHE:CG	2:ds:242:VAL:HG13	2.46	0.51
2:du:274:ALA:CB	2:du:297:VAL:HG21	2.40	0.51
2:dE:62:GLN:OE1	1:pc:102:GLU:HG2	2.02	0.51
2:dF:56:LEU:HD12	2:eX:113:HIS:HB2	1.93	0.51
2:dF:280:VAL:O	2:dF:289:ASN:ND2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dG:243:TYR:O	2:dG:247:ARG:HG2	2.11	0.51
2:dH:196:THR:HG21	2:pk:192:PHE:CZ	2.42	0.51
1:dL:94:GLU:HG3	2:eX:2:ALA:N	2.25	0.51
1:dN:98:LEU:HD23	2:dV:63:ARG:O	2.11	0.51
1:dO:103:ARG:HG3	2:nP:61:GLY:HA3	1.93	0.51
2:dS:30:THR:CG2	2:dS:298:LEU:HD13	2.40	0.51
2:dT:205:MET:HE2	2:nO:63:ARG:HE	1.72	0.51
2:dU:221:PHE:CG	2:dU:242:VAL:HG13	2.46	0.51
2:dU:243:TYR:O	2:dU:247:ARG:HG2	2.11	0.51
2:dU:281:GLN:OE1	2:dU:281:GLN:N	2.44	0.51
1:eb:99:LEU:HD21	1:ft:60:ARG:HH21	0.59	0.51
2:eg:179:LEU:HD13	2:eg:209:TYR:CE2	2.45	0.51
2:ei:81:GLU:OE1	2:ei:83:THR:HG23	2.11	0.51
2:ei:221:PHE:CG	2:ei:242:VAL:HG13	2.46	0.51
2:ev:177:ARG:HH11	2:ev:213:VAL:HG21	1.75	0.51
1:eS:62:THR:OG1	1:eS:100:LYS:O	2.27	0.51
2:fl:56:LEU:HD12	2:gD:113:HIS:HB2	1.93	0.51
2:fl:56:LEU:HD22	2:gD:82:SER:OG	2.11	0.51
2:fm:243:TYR:O	2:fm:247:ARG:HG2	2.11	0.51
2:fE:196:THR:HG23	2:mi:63:ARG:HH12	1.76	0.51
2:fN:192:PHE:CZ	2:fS:196:THR:HG21	2.45	0.51
2:fP:100:GLY:N	2:fP:101:PRO:CD	2.74	0.51
1:fV:98:LEU:HD23	2:gd:63:ARG:O	2.11	0.51
1:gj:105:THR:CB	2:gT:60:ILE:HG12	2.41	0.51
1:gk:62:THR:OG1	1:gk:100:LYS:O	2.27	0.51
1:gn:99:LEU:HG	1:hZ:102:GLU:OE2	1.74	0.51
2:gq:9:ILE:O	2:gq:9:ILE:HG22	2.11	0.51
2:gq:61:GLY:HA3	1:hO:103:ARG:HG3	1.93	0.51
2:gs:274:ALA:HB1	2:gs:297:VAL:HG21	1.91	0.51
2:gt:138:ASP:OD1	2:gt:139:THR:N	2.43	0.51
2:gQ:190:PRO:HG3	2:im:185:GLN:OE1	2.10	0.51
2:gS:63:ARG:HD3	2:ij:196:THR:O	2.12	0.51
2:hu:196:THR:O	2:hG:63:ARG:HD3	2.11	0.51
1:hy:100:LYS:CD	1:hE:100:LYS:NZ	2.71	0.51
1:hy:102:GLU:OE2	1:hE:99:LEU:HD21	2.06	0.51
2:ii:235:ASN:ND2	2:ii:283:LEU:HD11	2.26	0.51
2:ii:260:ARG:O	2:ii:260:ARG:HG2	2.09	0.51
2:iw:12:LEU:HD11	2:pZ:96:LEU:HB2	1.92	0.51
1:iD:98:LEU:HD23	2:iL:63:ARG:O	2.11	0.51
2:iN:280:VAL:O	2:iN:289:ASN:ND2	2.44	0.51
2:iW:4:ILE:HG23	2:iW:5:THR:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iW:62:GLN:OE1	1:jh:102:GLU:CD	2.53	0.51
2:jb:233:GLU:O	2:jb:237:VAL:HG13	2.11	0.51
2:jn:100:GLY:N	2:jn:101:PRO:CD	2.74	0.51
2:jn:196:THR:HG21	2:lw:192:PHE:CZ	2.42	0.51
2:jA:81:GLU:OE1	2:jA:83:THR:HG23	2.11	0.51
2:jC:62:GLN:HE21	2:lK:197:LYS:HZ1	1.59	0.51
2:jO:224:TRP:HZ2	2:jO:242:VAL:HG11	1.75	0.51
1:jY:105:THR:HG21	2:pZ:60:ILE:CG2	2.38	0.51
2:kb:56:LEU:HD12	2:ls:113:HIS:HB2	1.93	0.51
2:kc:9:ILE:HG22	2:kc:9:ILE:O	2.11	0.51
2:kf:233:GLU:O	2:kf:237:VAL:HG13	2.11	0.51
1:kh:94:GLU:HG3	2:ls:2:ALA:N	2.25	0.51
2:kD:12:LEU:HD11	2:lX:96:LEU:HB2	1.92	0.51
2:kG:233:GLU:O	2:kG:237:VAL:HG13	2.11	0.51
1:kJ:57:VAL:HG22	1:kJ:104:CYS:H	1.75	0.51
2:kV:196:THR:HG23	2:mY:63:ARG:HH12	1.76	0.51
2:le:280:VAL:O	2:le:289:ASN:ND2	2.41	0.51
2:lf:235:ASN:ND2	2:lf:283:LEU:HD11	2.26	0.51
2:lg:100:GLY:N	2:lg:101:PRO:CD	2.74	0.51
1:lk:94:GLU:HG3	2:mK:2:ALA:N	2.25	0.51
2:II:100:GLY:N	2:II:101:PRO:CD	2.74	0.51
2:IJ:274:ALA:HB1	2:IJ:297:VAL:HG21	1.91	0.51
2:IJ:274:ALA:CB	2:IJ:297:VAL:HG21	2.40	0.51
2:IT:4:ILE:HG23	2:IT:5:THR:HG23	1.93	0.51
2:mi:192:PHE:CZ	2:mn:196:THR:HG21	2.45	0.51
2:mi:197:LYS:HE2	1:ms:100:LYS:H	0.68	0.51
2:mj:221:PHE:CG	2:mj:242:VAL:HG13	2.46	0.51
2:mj:235:ASN:ND2	2:mj:283:LEU:HD11	2.26	0.51
2:mm:171:TYR:OH	2:mm:175:THR:OG1	2.12	0.51
2:mw:197:LYS:HE2	1:oA:100:LYS:H	0.68	0.51
2:my:100:GLY:N	2:my:101:PRO:CD	2.74	0.51
1:mT:62:THR:OG1	1:mT:100:LYS:O	2.27	0.51
2:nl:190:PRO:HG3	2:oJ:185:GLN:OE1	2.10	0.51
2:nm:280:VAL:O	2:nm:289:ASN:ND2	2.41	0.51
2:nr:144:TYR:HH	2:nr:254:GLY:H	1.58	0.51
2:nA:192:PHE:CZ	2:nF:196:THR:HG21	2.45	0.51
2:nA:243:TYR:CE1	2:nA:294:LEU:HD21	2.46	0.51
2:nN:4:ILE:HG23	2:nN:5:THR:HG23	1.93	0.51
2:nO:2:ALA:N	1:oi:94:GLU:HG3	2.25	0.51
2:nP:235:ASN:ND2	2:nP:283:LEU:HD11	2.26	0.51
2:nQ:196:THR:O	2:od:63:ARG:HD3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:nX:62:THR:OG1	1:nX:100:LYS:O	2.27	0.51
2:ob:30:THR:CG2	2:ob:298:LEU:HD13	2.40	0.51
2:oq:243:TYR:CE1	2:oq:294:LEU:HD21	2.46	0.51
2:os:100:GLY:N	2:os:101:PRO:CD	2.74	0.51
2:oE:243:TYR:CE1	2:oE:294:LEU:HD21	2.46	0.51
2:oR:30:THR:CG2	2:oR:298:LEU:HD13	2.40	0.51
2:pi:50:LEU:HD11	2:pj:98:VAL:HG12	1.92	0.51
2:pj:274:ALA:CB	2:pj:297:VAL:HG21	2.40	0.51
2:pk:186:GLU:N	2:pk:186:GLU:OE1	2.43	0.51
2:pu:113:HIS:HB2	2:pI:56:LEU:HD12	1.93	0.51
2:pw:50:LEU:HD11	2:px:98:VAL:HG12	1.92	0.51
2:pI:192:PHE:CZ	2:pN:196:THR:HG21	2.45	0.51
2:pJ:221:PHE:CG	2:pJ:242:VAL:HG13	2.46	0.51
2:pJ:235:ASN:ND2	2:pJ:283:LEU:HD11	2.26	0.51
2:pX:63:ARG:NH2	2:qa:205:MET:SD	2.84	0.51
2:pY:50:LEU:HD11	2:pZ:98:VAL:HG12	1.92	0.51
2:qa:233:GLU:O	2:qa:237:VAL:HG13	2.11	0.51
3:qe:12:PRO:HA	3:qe:15:ILE:HB	1.93	0.51
4:ql:214:GLN:O	4:qm:38:GLN:CG	2.57	0.51
4:qm:142:ALA:O	4:qm:143:ASP:OD1	2.29	0.51
5:qp:234:ILE:HG23	5:qr:262:ALA:O	2.11	0.51
5:qp:268:GLU:HA	5:qL:238:LYS:HE3	1.93	0.51
6:qq:58:LEU:HD13	6:qM:112:LEU:CB	2.34	0.51
5:qr:42:PRO:HD2	6:qw:133:ASP:OD2	2.11	0.51
5:qv:217:HIS:CE1	6:qy:138:TRP:CH2	2.99	0.51
5:qv:229:ILE:HD13	5:qx:232:LEU:CD1	2.39	0.51
5:qx:392:LEU:CD1	5:qz:400:TYR:HH	2.22	0.51
5:qD:284:PRO:HB2	5:qF:227:LEU:HD21	1.93	0.51
5:qF:207:ARG:NE	5:qH:69:GLU:OE2	2.43	0.51
5:qF:284:PRO:HB2	5:qH:227:LEU:HD21	1.93	0.51
5:qH:217:HIS:CE1	6:qK:138:TRP:CH2	2.99	0.51
5:qJ:234:ILE:HG23	5:qL:262:ALA:O	2.12	0.51
5:qJ:240:PRO:HA	5:qL:268:GLU:OE2	2.10	0.51
1:ab:99:LEU:CA	1:ng:102:GLU:OE1	2.28	0.50
2:ah:113:HIS:HB2	2:oS:56:LEU:HD12	1.93	0.50
2:ai:12:LEU:HD11	2:np:96:LEU:HB2	1.92	0.50
2:aj:196:THR:O	2:oT:63:ARG:HD3	2.11	0.50
2:ak:62:GLN:HG2	2:fD:197:LYS:HE3	1.91	0.50
1:aD:62:THR:OG1	1:aD:100:LYS:O	2.27	0.50
2:aI:177:ARG:HH11	2:aI:213:VAL:HG21	1.75	0.50
2:aJ:243:TYR:O	2:aJ:247:ARG:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aL:278:VAL:O	2:aL:278:VAL:HG23	2.11	0.50
2:aV:4:ILE:HG23	2:aV:5:THR:HG23	1.93	0.50
2:aW:2:ALA:N	1:bq:94:GLU:HG3	2.25	0.50
2:aY:196:THR:O	2:bl:63:ARG:HD3	2.11	0.50
2:bk:177:ARG:HH11	2:bk:213:VAL:HG21	1.75	0.50
2:bl:9:ILE:O	2:bl:9:ILE:HG22	2.11	0.50
2:bm:100:GLY:N	2:bm:101:PRO:CD	2.74	0.50
2:bn:278:VAL:O	2:bn:278:VAL:HG23	2.11	0.50
2:bo:186:GLU:N	2:bo:186:GLU:OE1	2.44	0.50
1:bw:99:LEU:HD23	1:dj:102:GLU:CG	2.19	0.50
2:by:63:ARG:HH12	2:di:196:THR:HG23	1.76	0.50
2:bC:138:ASP:OD1	2:bC:139:THR:N	2.43	0.50
2:bC:233:GLU:O	2:bC:237:VAL:HG13	2.11	0.50
2:bM:63:ARG:HD3	2:hH:196:THR:O	2.11	0.50
1:bU:103:ARG:HG3	2:iK:61:GLY:HA3	1.93	0.50
2:cc:274:ALA:HB1	2:cc:297:VAL:HG21	1.91	0.50
1:cg:100:LYS:HB2	1:lp:100:LYS:HE3	1.92	0.50
2:co:235:ASN:ND2	2:co:283:LEU:HD11	2.26	0.50
2:cr:138:ASP:OD1	2:cr:139:THR:N	2.43	0.50
2:cr:197:LYS:HE3	2:lv:62:GLN:HG2	1.91	0.50
2:cB:63:ARG:HH12	2:pl:196:THR:HG23	1.76	0.50
2:cD:196:THR:O	2:cQ:63:ARG:HD3	2.11	0.50
1:cK:62:THR:OG1	1:cK:100:LYS:O	2.27	0.50
2:cO:4:ILE:HG23	2:cO:5:THR:HG23	1.93	0.50
2:cO:30:THR:CG2	2:cO:298:LEU:HD13	2.40	0.50
2:cQ:221:PHE:CG	2:cQ:242:VAL:HG13	2.46	0.50
2:cR:100:GLY:N	2:cR:101:PRO:CD	2.74	0.50
2:ds:224:TRP:HZ2	2:ds:242:VAL:HG11	1.75	0.50
2:dG:23:ALA:O	2:dG:24:LEU:HD22	2.10	0.50
2:dT:82:SER:OG	2:nO:56:LEU:HD22	2.10	0.50
2:dW:278:VAL:HG23	2:dW:278:VAL:O	2.10	0.50
2:ei:61:GLY:HA3	1:nv:103:ARG:HG3	1.93	0.50
2:ej:196:THR:O	2:ew:63:ARG:HD3	2.11	0.50
2:el:300:THR:HG23	2:el:303:LEU:CD2	2.40	0.50
2:em:209:TYR:OH	2:eu:93:ASP:OD2	2.22	0.50
2:ev:243:TYR:CE1	2:ev:294:LEU:HD21	2.46	0.50
2:ex:60:ILE:HG12	1:nI:105:THR:CB	2.41	0.50
2:eL:100:GLY:N	2:eL:101:PRO:CD	2.74	0.50
2:eM:278:VAL:HG23	2:eM:278:VAL:O	2.10	0.50
2:fl:82:SER:OG	2:nA:56:LEU:HD22	2.10	0.50
2:fz:243:TYR:CE1	2:fz:294:LEU:HD21	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fK:100:LYS:HE3	1:kv:100:LYS:HB2	1.92	0.50
2:fP:196:THR:O	2:gc:63:ARG:HD3	2.11	0.50
2:gc:81:GLU:OE1	2:gc:83:THR:HG23	2.11	0.50
2:gc:235:ASN:ND2	2:gc:283:LEU:HD11	2.26	0.50
2:gd:196:THR:O	2:ii:63:ARG:HD3	2.12	0.50
2:gg:196:THR:HG23	2:ih:63:ARG:HH12	1.76	0.50
1:gw:100:LYS:HB2	1:pd:100:LYS:HE3	1.92	0.50
2:gD:274:ALA:HB1	2:gD:297:VAL:HG21	1.92	0.50
1:hb:100:LYS:H	2:lG:197:LYS:HE2	0.69	0.50
2:hg:281:GLN:N	2:hg:281:GLN:OE1	2.44	0.50
2:hh:196:THR:HG21	2:kG:192:PHE:CZ	2.42	0.50
2:hh:196:THR:O	2:kD:63:ARG:HD3	2.11	0.50
2:hs:104:GLN:HG3	5:qB:179:ALA:HB2	1.93	0.50
2:ht:63:ARG:NH2	2:hw:205:MET:SD	2.84	0.50
2:hJ:233:GLU:O	2:hJ:237:VAL:HG13	2.11	0.50
2:hU:81:GLU:OE1	2:hU:83:THR:HG23	2.11	0.50
2:hV:50:LEU:HD11	2:hW:98:VAL:HG12	1.92	0.50
1:ie:100:LYS:HE3	1:nt:100:LYS:HB2	1.92	0.50
1:io:100:LYS:HB2	1:on:100:LYS:HE3	1.92	0.50
1:ir:102:GLU:CD	2:jM:62:GLN:OE1	2.53	0.50
2:iu:4:ILE:HG23	2:iu:5:THR:HG23	1.93	0.50
2:iu:190:PRO:HG3	2:jS:185:GLN:OE1	2.10	0.50
2:iw:61:GLY:CA	1:jI:103:ARG:NH1	2.70	0.50
1:iS:103:ARG:HG3	2:jm:61:GLY:HA3	1.93	0.50
2:jo:274:ALA:CB	2:jo:297:VAL:HG21	2.40	0.50
2:jz:2:ALA:N	1:qc:94:GLU:HG3	2.25	0.50
2:jA:9:ILE:HG22	2:jA:9:ILE:O	2.11	0.50
1:jU:100:LYS:HB2	1:pT:100:LYS:HE3	1.92	0.50
1:jW:82:ASP:OD1	1:jW:83:GLY:N	2.43	0.50
2:ka:4:ILE:HG23	2:ka:5:THR:HG23	1.93	0.50
2:kb:63:ARG:HH12	2:lx:196:THR:HG23	1.76	0.50
2:kp:235:ASN:ND2	2:kp:283:LEU:HD11	2.26	0.50
2:ks:186:GLU:N	2:ks:186:GLU:OE1	2.44	0.50
2:kC:113:HIS:HB2	2:kQ:56:LEU:HD12	1.93	0.50
2:kD:81:GLU:OE1	2:kD:83:THR:HG23	2.11	0.50
2:kQ:177:ARG:HH11	2:kQ:213:VAL:HG21	1.75	0.50
2:kQ:243:TYR:CE1	2:kQ:294:LEU:HD21	2.46	0.50
2:kR:9:ILE:O	2:kR:9:ILE:HG22	2.11	0.50
2:kS:100:GLY:N	2:kS:101:PRO:CD	2.74	0.50
1:kY:105:THR:CB	2:lI:60:ILE:HG12	2.41	0.50
2:lj:36:THR:O	2:lj:175:THR:OG1	2.18	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ls:243:TYR:CE1	2:ls:294:LEU:HD21	2.46	0.50
2:lF:30:THR:CG2	2:lF:298:LEU:HD13	2.40	0.50
2:lU:117:LEU:HD21	2:lU:211:TYR:HA	1.92	0.50
2:lV:9:ILE:HG22	2:lV:9:ILE:O	2.11	0.50
2:mj:12:LEU:HD11	2:nD:96:LEU:HB2	1.92	0.50
2:mv:38:ILE:HG13	2:mv:38:ILE:O	2.11	0.50
2:mx:221:PHE:CG	2:mx:242:VAL:HG13	2.46	0.50
2:mJ:43:ALA:O	2:mJ:44:SER:OG	2.20	0.50
2:mJ:197:LYS:NZ	1:ow:100:LYS:HD2	2.24	0.50
2:mM:100:GLY:N	2:mM:101:PRO:CD	2.74	0.50
2:mN:274:ALA:CB	2:mN:297:VAL:HG21	2.40	0.50
2:mX:30:THR:CG2	2:mX:298:LEU:HD13	2.40	0.50
2:mZ:221:PHE:CG	2:mZ:242:VAL:HG13	2.46	0.50
2:nq:186:GLU:OE1	2:nq:186:GLU:N	2.44	0.50
2:nS:233:GLU:O	2:nS:237:VAL:HG13	2.11	0.50
1:nX:82:ASP:OD1	1:nX:83:GLY:N	2.43	0.50
2:oc:274:ALA:HB1	2:oc:297:VAL:HG21	1.92	0.50
2:og:138:ASP:OD1	2:og:139:THR:N	2.43	0.50
2:op:13:LYS:NZ	2:pY:93:ASP:OD1	2.42	0.50
2:ol:233:GLU:O	2:ol:237:VAL:HG13	2.11	0.50
2:ou:100:GLY:N	2:ou:101:PRO:CD	2.74	0.50
2:ow:233:GLU:O	2:ow:237:VAL:HG13	2.11	0.50
2:pf:43:ALA:O	2:pf:44:SER:OG	2.20	0.50
2:ph:235:ASN:ND2	2:ph:283:LEU:HD11	2.26	0.50
2:pv:81:GLU:OE1	2:pv:83:THR:HG23	2.11	0.50
2:pv:243:TYR:O	2:pv:247:ARG:HG2	2.11	0.50
3:qh:12:PRO:HA	3:qh:15:ILE:HB	1.93	0.50
4:ql:142:ALA:O	4:ql:143:ASP:OD1	2.29	0.50
4:ql:238:THR:CG2	4:qm:50:TYR:OH	2.52	0.50
6:qq:133:ASP:OD2	5:qJ:42:PRO:CD	2.59	0.50
5:qr:284:PRO:HB2	5:qt:227:LEU:HD21	1.93	0.50
5:qt:229:ILE:HD13	5:qv:232:LEU:CD1	2.39	0.50
5:qx:234:ILE:HG23	5:qz:262:ALA:O	2.11	0.50
5:qx:238:LYS:HE3	5:qz:268:GLU:HA	1.93	0.50
5:qD:217:HIS:HE1	6:qG:138:TRP:CH2	2.28	0.50
6:qE:122:ALA:O	6:qE:126:GLN:NE2	2.40	0.50
5:qJ:380:MET:SD	5:qJ:384:ILE:HD11	2.50	0.50
1:ab:98:LEU:HD23	2:aj:63:ARG:O	2.11	0.50
1:af:99:LEU:HD23	1:oi:102:GLU:CG	2.19	0.50
2:ak:278:VAL:HG23	2:ak:278:VAL:O	2.11	0.50
1:ao:100:LYS:HB2	1:gm:100:LYS:HE3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ap:98:LEU:HD23	2:aw:63:ARG:O	2.11	0.50
2:ay:197:LYS:HE3	2:gs:62:GLN:HG2	1.91	0.50
1:aA:100:LYS:CE	1:kn:100:LYS:HZ1	2.23	0.50
1:aC:98:LEU:HD23	2:aK:63:ARG:O	2.11	0.50
2:aI:192:PHE:CZ	2:aN:196:THR:HG21	2.45	0.50
2:aI:243:TYR:CE1	2:aI:294:LEU:HD21	2.46	0.50
2:aK:196:THR:O	2:iY:63:ARG:HD3	2.11	0.50
2:aV:62:GLN:OE1	1:bg:102:GLU:HG2	2.02	0.50
2:ba:233:GLU:O	2:ba:237:VAL:HG13	2.11	0.50
1:be:98:LEU:HD23	2:bm:63:ARG:O	2.11	0.50
2:bj:4:ILE:HG23	2:bj:5:THR:HG23	1.93	0.50
2:bl:243:TYR:O	2:bl:247:ARG:HG2	2.11	0.50
1:bF:57:VAL:HG22	1:bF:104:CYS:H	1.75	0.50
1:bH:62:THR:OG1	1:bH:100:LYS:O	2.27	0.50
1:bK:100:LYS:HZ1	1:hL:100:LYS:CE	2.24	0.50
2:bM:12:LEU:HD11	2:gU:96:LEU:HB2	1.92	0.50
2:bN:100:GLY:N	2:bN:101:PRO:CD	2.74	0.50
2:bO:60:ILE:CG2	1:lR:105:THR:HG21	2.38	0.50
2:bP:233:GLU:O	2:bP:237:VAL:HG13	2.11	0.50
2:ca:221:PHE:CG	2:ca:242:VAL:HG13	2.46	0.50
2:ca:224:TRP:HZ2	2:ca:242:VAL:HG11	1.75	0.50
2:cm:190:PRO:HG3	2:iA:185:GLN:OE1	2.10	0.50
1:cv:105:THR:CB	2:pK:60:ILE:HG12	2.41	0.50
2:cA:38:ILE:O	2:cA:38:ILE:HG13	2.11	0.50
2:cD:60:ILE:HG12	1:dN:105:THR:CB	2.41	0.50
2:cF:186:GLU:N	2:cF:186:GLU:OE1	2.44	0.50
2:cS:274:ALA:CB	2:cS:297:VAL:HG21	2.40	0.50
2:de:224:TRP:HZ2	2:de:242:VAL:HG11	1.75	0.50
2:df:100:GLY:N	2:df:101:PRO:CD	2.74	0.50
2:dg:274:ALA:CB	2:dg:297:VAL:HG21	2.40	0.50
2:dv:280:VAL:O	2:dv:289:ASN:ND2	2.44	0.50
2:dH:196:THR:O	2:ph:63:ARG:HD3	2.11	0.50
2:dX:233:GLU:O	2:dX:237:VAL:HG13	2.11	0.50
2:ek:62:GLN:HG2	2:mm:197:LYS:HE3	1.91	0.50
1:en:94:GLU:HG3	2:nA:2:ALA:N	2.25	0.50
2:ew:224:TRP:HZ2	2:ew:242:VAL:HG11	1.75	0.50
2:ew:243:TYR:O	2:ew:247:ARG:HG2	2.11	0.50
2:ex:196:THR:O	2:gE:63:ARG:HD3	2.11	0.50
2:eY:235:ASN:ND2	2:eY:283:LEU:HD11	2.26	0.50
2:fb:197:LYS:HZ1	2:iM:62:GLN:HE21	1.59	0.50
2:fl:63:ARG:HH12	2:gI:196:THR:HG23	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fn:100:GLY:N	2:fn:101:PRO:CD	2.74	0.50
2:fA:243:TYR:O	2:fA:247:ARG:HG2	2.11	0.50
1:fH:60:ARG:HH21	1:mq:99:LEU:HD21	0.59	0.50
2:fO:224:TRP:HZ2	2:fO:242:VAL:HG11	1.75	0.50
2:fr:280:VAL:O	2:fr:289:ASN:ND2	2.44	0.50
2:fS:196:THR:HG23	2:gb:63:ARG:HH12	1.76	0.50
2:gc:221:PHE:CG	2:gc:242:VAL:HG13	2.46	0.50
1:gj:82:ASP:OD1	1:gj:83:GLY:N	2.41	0.50
2:go:4:ILE:HG23	2:go:5:THR:HG23	1.93	0.50
2:gq:63:ARG:HD3	2:hV:196:THR:O	2.12	0.50
2:gs:278:VAL:O	2:gs:278:VAL:HG23	2.10	0.50
2:gG:60:ILE:CG2	1:pd:105:THR:HG21	2.39	0.50
2:gG:274:ALA:HB1	2:gG:297:VAL:HG21	1.91	0.50
2:gH:138:ASP:OD1	2:gH:139:THR:N	2.43	0.50
2:gU:278:VAL:HG23	2:gU:278:VAL:O	2.11	0.50
1:gX:102:GLU:CG	1:lS:99:LEU:HD23	2.18	0.50
1:hb:102:GLU:HG2	2:lF:62:GLN:OE1	2.02	0.50
2:hf:2:ALA:N	1:kl:94:GLU:HG3	2.25	0.50
2:hf:205:MET:CE	2:kC:63:ARG:NE	2.74	0.50
2:hg:81:GLU:OE1	2:hg:83:THR:HG23	2.11	0.50
2:hh:50:LEU:HD11	2:hi:98:VAL:HG12	1.92	0.50
1:hr:70:GLY:CA	6:qG:117:LYS:C	2.79	0.50
1:hr:100:LYS:HZ3	1:ku:100:LYS:HD3	1.75	0.50
2:hF:30:THR:CG2	2:hF:298:LEU:HD13	2.40	0.50
1:hN:98:LEU:HD23	2:hV:63:ARG:O	2.11	0.50
2:hS:4:ILE:HG23	2:hS:5:THR:HG23	1.93	0.50
2:hT:243:TYR:CE1	2:hT:294:LEU:HD21	2.46	0.50
2:hU:9:ILE:HG22	2:hU:9:ILE:O	2.11	0.50
2:hU:235:ASN:ND2	2:hU:283:LEU:HD11	2.26	0.50
2:hU:243:TYR:O	2:hU:247:ARG:HG2	2.11	0.50
2:ig:4:ILE:HG23	2:ig:5:THR:HG23	1.93	0.50
2:ig:30:THR:CG2	2:ig:298:LEU:HD13	2.40	0.50
2:ig:38:ILE:O	2:ig:38:ILE:HG13	2.11	0.50
2:ii:81:GLU:OE1	2:ii:83:THR:HG23	2.11	0.50
2:iw:23:ALA:O	2:iw:24:LEU:HD22	2.10	0.50
2:ix:100:GLY:N	2:ix:101:PRO:CD	2.74	0.50
2:iI:38:ILE:HG13	2:iI:38:ILE:O	2.11	0.50
2:iJ:243:TYR:CE1	2:iJ:294:LEU:HD21	2.46	0.50
1:iQ:57:VAL:HG22	1:iQ:104:CYS:H	1.75	0.50
2:iY:224:TRP:HZ2	2:iY:242:VAL:HG11	1.75	0.50
2:iZ:60:ILE:HG12	1:kj:105:THR:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ja:274:ALA:CB	2:ja:297:VAL:HG21	2.40	0.50
2:jk:4:ILE:HG23	2:jk:5:THR:HG23	1.93	0.50
2:jl:113:HIS:HB2	2:ls:56:LEU:HD12	1.93	0.50
2:jn:50:LEU:HD11	2:jo:98:VAL:HG12	1.92	0.50
2:jz:56:LEU:HD12	2:le:113:HIS:HB2	1.93	0.50
2:jz:177:ARG:HH11	2:jz:213:VAL:HG21	1.75	0.50
2:jA:63:ARG:NH2	2:jD:205:MET:SD	2.84	0.50
2:jD:138:ASP:OD1	2:jD:139:THR:N	2.43	0.50
2:jN:63:ARG:NE	2:pI:205:MET:CE	2.74	0.50
2:jO:235:ASN:ND2	2:jO:283:LEU:HD11	2.26	0.50
1:jV:105:THR:CB	2:na:60:ILE:HG12	2.40	0.50
2:kb:56:LEU:HD22	2:ls:82:SER:OG	2.11	0.50
2:kc:63:ARG:NH2	2:kf:205:MET:SD	2.84	0.50
2:ko:30:THR:CG2	2:ko:298:LEU:HD13	2.40	0.50
1:kw:98:LEU:HD23	2:kE:63:ARG:O	2.11	0.50
2:kC:243:TYR:CE1	2:kC:294:LEU:HD21	2.46	0.50
2:kE:196:THR:O	2:kR:63:ARG:HD3	2.11	0.50
1:kI:100:LYS:CG	1:kO:100:LYS:HZ3	2.05	0.50
2:le:56:LEU:HD22	2:mK:82:SER:OG	2.10	0.50
2:le:63:ARG:HH12	2:mP:196:THR:HG23	1.76	0.50
2:li:100:GLY:N	2:li:101:PRO:CD	2.75	0.50
2:lj:75:ILE:CD1	2:lj:213:VAL:HG22	2.42	0.50
2:lv:107:GLY:CA	2:lv:184:TYR:HE1	2.22	0.50
1:lB:62:THR:OG1	1:lB:100:LYS:O	2.27	0.50
2:lG:243:TYR:CE1	2:lG:294:LEU:HD21	2.46	0.50
2:lJ:107:GLY:CA	2:lJ:184:TYR:HE1	2.22	0.50
2:lU:243:TYR:CE1	2:lU:294:LEU:HD21	2.46	0.50
2:IV:81:GLU:OE1	2:IV:83:THR:HG23	2.11	0.50
2:mk:100:GLY:N	2:mk:101:PRO:CD	2.74	0.50
1:mq:98:LEU:HD23	2:my:63:ARG:O	2.11	0.50
2:mw:177:ARG:HH11	2:mw:213:VAL:HG21	1.75	0.50
2:mx:63:ARG:NH2	2:mA:205:MET:SD	2.84	0.50
2:mx:243:TYR:O	2:mx:247:ARG:HG2	2.11	0.50
2:mz:278:VAL:HG23	2:mz:278:VAL:O	2.10	0.50
2:mL:63:ARG:HD3	2:os:196:THR:O	2.11	0.50
2:mL:243:TYR:O	2:mL:247:ARG:HG2	2.11	0.50
2:mN:278:VAL:HG23	2:mN:278:VAL:O	2.10	0.50
2:mO:186:GLU:OE1	2:mO:186:GLU:N	2.44	0.50
2:mX:38:ILE:O	2:mX:38:ILE:HG13	2.11	0.50
1:nh:62:THR:OG1	1:nh:100:LYS:O	2.27	0.50
2:nO:82:SER:OG	2:oc:56:LEU:HD22	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nR:274:ALA:HB1	2:nR:297:VAL:HG21	1.92	0.50
2:ob:179:LEU:HD13	2:ob:209:TYR:CE2	2.45	0.50
2:od:81:GLU:OE1	2:od:83:THR:HG23	2.11	0.50
2:of:278:VAL:HG23	2:of:278:VAL:O	2.11	0.50
2:og:186:GLU:OE1	2:og:186:GLU:N	2.44	0.50
1:ok:105:THR:CB	2:oU:60:ILE:HG12	2.41	0.50
2:op:38:ILE:O	2:op:38:ILE:HG13	2.11	0.50
2:or:221:PHE:CG	2:or:242:VAL:HG13	2.46	0.50
2:oe:280:VAL:O	2:oe:289:ASN:ND2	2.41	0.50
2:ot:9:ILE:O	2:ot:9:ILE:HG22	2.11	0.50
2:pt:30:THR:CG2	2:pt:298:LEU:HD13	2.40	0.50
1:pA:102:GLU:CG	1:pG:99:LEU:HD23	2.18	0.50
3:qi:65:GLY:N	4:qo:10:GLN:HE22	1.96	0.50
3:qi:68:ALA:CA	4:qn:222:GLY:O	2.54	0.50
4:ql:174:GLN:HG2	4:qm:253:ILE:HG13	1.92	0.50
5:qp:217:HIS:HE1	6:qs:138:TRP:CH2	2.28	0.50
6:qs:133:ASP:OD2	5:qL:42:PRO:CD	2.60	0.50
5:qx:42:PRO:HD2	6:qC:133:ASP:OD2	2.11	0.50
5:qH:42:PRO:CD	6:qM:133:ASP:OD2	2.60	0.50
2:al:138:ASP:OD1	2:al:139:THR:N	2.43	0.50
1:ao:58:PHE:CD1	1:ao:101:VAL:HG21	2.47	0.50
2:aw:100:GLY:N	2:aw:101:PRO:CD	2.74	0.50
2:aJ:63:ARG:HD3	2:kd:196:THR:O	2.11	0.50
2:aM:100:GLY:N	2:aM:101:PRO:CD	2.75	0.50
2:aZ:62:GLN:HG2	2:py:197:LYS:HE3	1.91	0.50
2:ba:100:GLY:N	2:ba:101:PRO:CD	2.75	0.50
2:ba:138:ASP:OD1	2:ba:139:THR:N	2.43	0.50
1:bc:94:GLU:HG3	2:iJ:2:ALA:N	2.25	0.50
2:bz:260:ARG:O	2:bz:260:ARG:HG2	2.09	0.50
2:bA:100:GLY:N	2:bA:101:PRO:CD	2.74	0.50
2:bB:62:GLN:HG2	2:dJ:197:LYS:HE3	1.91	0.50
2:bM:235:ASN:ND2	2:bM:283:LEU:HD11	2.26	0.50
2:cb:93:ASP:OD1	2:iI:13:LYS:NZ	2.42	0.50
2:cb:103:MET:N	2:cb:103:MET:SD	2.85	0.50
2:cn:225:GLN:N	2:cn:225:GLN:OE1	2.45	0.50
2:cr:280:VAL:O	2:cr:289:ASN:ND2	2.44	0.50
2:cs:75:ILE:CD1	2:cs:213:VAL:HG22	2.42	0.50
1:cu:57:VAL:HG22	1:cu:104:CYS:H	1.75	0.50
2:cC:235:ASN:ND2	2:cC:283:LEU:HD11	2.26	0.50
2:cD:100:GLY:N	2:cD:101:PRO:CD	2.74	0.50
2:cG:75:ILE:CD1	2:cG:213:VAL:HG22	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cQ:12:LEU:HD11	2:px:96:LEU:HB2	1.92	0.50
2:cQ:243:TYR:O	2:cQ:247:ARG:HG2	2.11	0.50
2:cU:196:THR:HG23	2:eX:63:ARG:HH12	1.76	0.50
1:cX:98:LEU:HD23	2:df:63:ARG:O	2.11	0.50
2:dc:30:THR:CG2	2:dc:298:LEU:HD13	2.40	0.50
2:de:81:GLU:O	2:dg:57:ARG:N	2.39	0.50
2:de:81:GLU:OE1	2:de:83:THR:HG23	2.11	0.50
2:dv:100:GLY:N	2:dv:101:PRO:CD	2.75	0.50
2:dF:113:HIS:HB2	2:pg:56:LEU:HD12	1.93	0.50
2:dG:63:ARG:HD3	2:eZ:196:THR:O	2.11	0.50
2:dJ:186:GLU:OE1	2:dJ:186:GLU:N	2.44	0.50
1:dR:100:LYS:HZ1	1:oY:100:LYS:HG2	1.65	0.50
2:dV:196:THR:O	2:nP:63:ARG:HD3	2.12	0.50
1:eb:98:LEU:HD23	2:ej:63:ARG:O	2.11	0.50
2:eh:113:HIS:HB2	2:ev:56:LEU:HD12	1.93	0.50
2:ei:63:ARG:HD3	2:nC:196:THR:O	2.11	0.50
2:el:186:GLU:OE1	2:el:186:GLU:N	2.44	0.50
2:em:75:ILE:CD1	2:em:213:VAL:HG22	2.42	0.50
1:en:100:LYS:CE	1:et:100:LYS:HZ1	2.24	0.50
1:ep:60:ARG:HH21	1:pa:99:LEU:HD21	0.59	0.50
2:ex:100:GLY:N	2:ex:101:PRO:CD	2.74	0.50
2:eK:235:ASN:ND2	2:eK:283:LEU:HD11	2.26	0.50
2:eL:103:MET:N	2:eL:103:MET:SD	2.85	0.50
2:eN:186:GLU:N	2:eN:186:GLU:OE1	2.44	0.50
2:eY:9:ILE:O	2:eY:9:ILE:HG22	2.11	0.50
2:fc:75:ILE:CD1	2:fc:213:VAL:HG22	2.42	0.50
2:fl:113:HIS:HB2	2:nA:56:LEU:HD12	1.93	0.50
2:fp:100:GLY:N	2:fp:101:PRO:CD	2.75	0.50
2:fy:38:ILE:O	2:fy:38:ILE:HG13	2.11	0.50
2:fz:82:SER:OG	2:mi:56:LEU:HD22	2.11	0.50
2:fN:197:LYS:HE2	1:fX:100:LYS:H	0.69	0.50
2:fr:100:GLY:N	2:fr:101:PRO:CD	2.75	0.50
2:ge:278:VAL:O	2:ge:278:VAL:HG23	2.11	0.50
2:gf:186:GLU:N	2:gf:186:GLU:OE1	2.43	0.50
2:go:43:ALA:O	2:go:44:SER:OG	2.20	0.50
2:gt:100:GLY:N	2:gt:101:PRO:CD	2.75	0.50
2:gH:280:VAL:O	2:gH:289:ASN:ND2	2.44	0.50
2:gQ:4:ILE:HG23	2:gQ:5:THR:HG23	1.93	0.50
2:gS:235:ASN:ND2	2:gS:283:LEU:HD11	2.26	0.50
1:hc:100:LYS:HE3	1:ox:100:LYS:HB2	1.92	0.50
2:hF:280:VAL:O	2:hF:289:ASN:ND2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hj:100:GLY:N	2:hj:101:PRO:CD	2.75	0.50
2:hF:4:ILE:HG23	2:hF:5:THR:HG23	1.93	0.50
1:hM:57:VAL:HG22	1:hM:104:CYS:H	1.75	0.50
2:ii:9:ILE:HG22	2:ii:9:ILE:O	2.11	0.50
2:il:197:LYS:HE3	2:nD:62:GLN:HG2	1.91	0.50
1:is:100:LYS:HE3	1:oj:100:LYS:HB2	1.92	0.50
2:iv:243:TYR:CE1	2:iv:294:LEU:HD21	2.46	0.50
2:iw:235:ASN:ND2	2:iw:283:LEU:HD11	2.26	0.50
2:iO:75:ILE:CD1	2:iO:213:VAL:HG22	2.42	0.50
2:iY:281:GLN:OE1	2:iY:281:GLN:N	2.44	0.50
2:iZ:196:THR:O	2:jm:63:ARG:HD3	2.11	0.50
2:jc:75:ILE:CD1	2:jc:213:VAL:HG22	2.42	0.50
2:jc:196:THR:HG23	2:jl:63:ARG:HH12	1.76	0.50
1:jf:82:ASP:OD1	1:jf:83:GLY:N	2.41	0.50
2:jl:274:ALA:HB1	2:jl:297:VAL:HG21	1.92	0.50
2:jp:233:GLU:O	2:jp:237:VAL:HG13	2.11	0.50
2:jq:75:ILE:CD1	2:jq:213:VAL:HG22	2.42	0.50
2:jy:43:ALA:O	2:jy:44:SER:OG	2.20	0.50
2:jB:60:ILE:HG12	1:mS:105:THR:CB	2.41	0.50
2:jD:100:GLY:N	2:jD:101:PRO:CD	2.75	0.50
1:jF:102:GLU:OE2	1:pU:99:LEU:HG	1.74	0.50
2:jN:243:TYR:CE1	2:jN:294:LEU:HD21	2.46	0.50
2:jS:75:ILE:CD1	2:jS:213:VAL:HG22	2.42	0.50
2:kc:235:ASN:ND2	2:kc:283:LEU:HD11	2.26	0.50
2:kf:197:LYS:HE3	2:pZ:62:GLN:HG2	1.91	0.50
2:ko:38:ILE:O	2:ko:38:ILE:HG13	2.11	0.50
2:kC:197:LYS:HE2	1:kM:100:LYS:H	0.69	0.50
2:kD:235:ASN:ND2	2:kD:283:LEU:HD11	2.26	0.50
2:kE:60:ILE:HG12	1:lO:105:THR:CB	2.41	0.50
2:lf:9:ILE:O	2:lf:9:ILE:HG22	2.11	0.50
2:lf:61:GLY:CA	1:mF:103:ARG:NH1	2.70	0.50
2:lF:38:ILE:O	2:lF:38:ILE:HG13	2.11	0.50
2:lK:100:GLY:N	2:lK:101:PRO:CD	2.75	0.50
2:lV:243:TYR:O	2:lV:247:ARG:HG2	2.11	0.50
1:mc:98:LEU:HD23	2:mk:63:ARG:O	2.11	0.50
2:mi:243:TYR:CE1	2:mi:294:LEU:HD21	2.46	0.50
2:mw:82:SER:OG	2:oE:56:LEU:HD22	2.10	0.50
2:mJ:38:ILE:HG13	2:mJ:38:ILE:O	2.11	0.50
2:mL:221:PHE:CG	2:mL:242:VAL:HG13	2.46	0.50
2:mN:96:LEU:HB2	2:nn:12:LEU:HD11	1.92	0.50
2:nm:63:ARG:NE	2:oE:205:MET:CE	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:no:50:LEU:HD11	2:np:98:VAL:HG12	1.92	0.50
2:no:103:MET:N	2:no:103:MET:SD	2.85	0.50
2:nB:243:TYR:O	2:nB:247:ARG:HG2	2.11	0.50
2:nC:103:MET:N	2:nC:103:MET:SD	2.85	0.50
2:nE:233:GLU:O	2:nE:237:VAL:HG13	2.11	0.50
1:nI:98:LEU:HD23	2:nQ:63:ARG:O	2.11	0.50
2:nP:63:ARG:NH2	2:nS:205:MET:SD	2.84	0.50
2:ob:38:ILE:HG13	2:ob:38:ILE:O	2.11	0.50
1:ok:98:LEU:HD23	2:os:63:ARG:O	2.11	0.50
2:oq:56:LEU:HD22	2:pW:82:SER:OG	2.10	0.50
2:os:103:MET:N	2:os:103:MET:SD	2.85	0.50
2:oF:9:ILE:O	2:oF:9:ILE:HG22	2.11	0.50
2:oV:274:ALA:CB	2:oV:297:VAL:HG21	2.40	0.50
2:pg:243:TYR:CE1	2:pg:294:LEU:HD21	2.46	0.50
2:pi:100:GLY:N	2:pi:101:PRO:CD	2.74	0.50
2:pl:75:ILE:CD1	2:pl:213:VAL:HG22	2.42	0.50
2:py:100:GLY:N	2:py:101:PRO:CD	2.75	0.50
1:pC:98:LEU:HD23	2:pK:63:ARG:O	2.11	0.50
2:pM:186:GLU:N	2:pM:186:GLU:OE1	2.43	0.50
3:qe:84:TYR:OH	6:qw:20:GLU:HG2	2.11	0.50
4:qk:64:LYS:HZ2	4:ql:53:GLN:HG2	1.77	0.50
4:qk:142:ALA:O	4:qk:143:ASP:OD1	2.29	0.50
4:qn:142:ALA:O	4:qn:143:ASP:OD1	2.29	0.50
4:qn:188:ARG:NE	4:qn:204:GLU:OE1	2.43	0.50
5:qp:217:HIS:CE1	6:qs:138:TRP:CH2	2.99	0.50
5:qt:238:LYS:HE3	5:qv:268:GLU:HA	1.93	0.50
1:ab:60:ARG:HH21	1:mE:99:LEU:HD21	0.59	0.50
1:ac:82:ASP:OD1	1:ac:83:GLY:N	2.43	0.50
2:ag:38:ILE:O	2:ag:38:ILE:HG13	2.11	0.50
2:ah:177:ARG:HH11	2:ah:213:VAL:HG21	1.75	0.50
2:ai:243:TYR:O	2:ai:247:ARG:HG2	2.11	0.50
2:am:75:ILE:CD1	2:am:213:VAL:HG22	2.42	0.50
1:ap:102:GLU:HB2	1:dl:99:LEU:CD2	2.33	0.50
1:ap:105:THR:CB	2:dt:60:ILE:HG12	2.40	0.50
1:as:105:THR:HG21	2:gs:60:ILE:CG2	2.39	0.50
1:aQ:105:THR:CB	2:jn:60:ILE:HG12	2.41	0.50
2:aW:113:HIS:HB2	2:bk:56:LEU:HD12	1.93	0.50
2:aW:282:ARG:HH11	2:bk:282:ARG:NH2	1.93	0.50
2:bk:225:GLN:N	2:bk:225:GLN:OE1	2.45	0.50
2:bl:221:PHE:CG	2:bl:242:VAL:HG13	2.46	0.50
2:bm:196:THR:HG21	2:dv:192:PHE:CZ	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bo:138:ASP:OD1	2:bo:139:THR:N	2.43	0.50
2:bp:75:ILE:CD1	2:bp:213:VAL:HG22	2.42	0.50
1:bq:102:GLU:CG	1:dp:99:LEU:HD23	2.18	0.50
2:by:56:LEU:HD12	2:dd:113:HIS:HB2	1.93	0.50
2:by:113:HIS:HB2	2:hT:56:LEU:HD12	1.93	0.50
2:bD:196:THR:HG23	2:hT:63:ARG:HH12	1.76	0.50
1:bW:100:LYS:HE3	1:hM:100:LYS:HB2	1.92	0.50
2:ca:235:ASN:ND2	2:ca:283:LEU:HD11	2.26	0.50
2:ce:197:LYS:HA	2:iJ:62:GLN:NE2	2.27	0.50
1:cv:60:ARG:HH21	1:pC:99:LEU:HD21	0.59	0.50
1:cz:100:LYS:N	2:pl:197:LYS:HE3	2.27	0.50
2:cB:82:SER:OG	2:cP:56:LEU:HD22	2.10	0.50
2:cC:81:GLU:O	2:cE:57:ARG:N	2.39	0.50
2:cD:93:ASP:OD1	2:cO:13:LYS:NZ	2.42	0.50
2:cD:196:THR:HG21	2:cT:192:PHE:CZ	2.42	0.50
2:cF:280:VAL:O	2:cF:289:ASN:ND2	2.44	0.50
2:de:63:ARG:NH2	2:dh:205:MET:SD	2.84	0.50
1:dj:94:GLU:HG3	2:eJ:2:ALA:N	2.25	0.50
1:dk:57:VAL:HG22	1:dk:104:CYS:H	1.75	0.50
2:dr:225:GLN:OE1	2:dr:225:GLN:N	2.45	0.50
2:dw:75:ILE:CD1	2:dw:213:VAL:HG22	2.42	0.50
2:dG:63:ARG:NH2	2:dJ:205:MET:SD	2.84	0.50
2:dH:103:MET:N	2:dH:103:MET:SD	2.85	0.50
2:dJ:233:GLU:O	2:dJ:237:VAL:HG13	2.11	0.50
2:dT:225:GLN:N	2:dT:225:GLN:OE1	2.45	0.50
2:dT:274:ALA:HB1	2:dT:297:VAL:HG21	1.92	0.50
2:dV:93:ASP:OD1	2:nN:13:LYS:NZ	2.42	0.50
2:eh:177:ARG:HH11	2:eh:213:VAL:HG21	1.75	0.50
2:eh:205:MET:CE	2:ev:63:ARG:NE	2.74	0.50
2:ek:278:VAL:HG23	2:ek:278:VAL:O	2.10	0.50
1:en:102:GLU:OE2	1:et:99:LEU:HD21	2.06	0.50
1:ep:82:ASP:OD1	1:ep:83:GLY:N	2.41	0.50
2:ew:281:GLN:N	2:ew:281:GLN:OE1	2.44	0.50
2:ey:62:GLN:HE21	2:og:197:LYS:HZ1	1.59	0.50
1:eD:98:LEU:HD23	2:eL:63:ARG:O	2.11	0.50
1:eH:100:LYS:N	2:gu:197:LYS:HE3	2.27	0.50
2:eK:221:PHE:CG	2:eK:242:VAL:HG13	2.46	0.50
2:eL:60:ILE:HG12	1:ib:105:THR:CB	2.41	0.50
2:eM:96:LEU:HB2	2:fm:12:LEU:HD11	1.92	0.50
1:eR:60:ARG:HE	1:eR:102:GLU:HB2	1.77	0.50
2:eX:280:VAL:O	2:eX:289:ASN:ND2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fg:62:THR:OG1	1:fg:100:LYS:O	2.27	0.50
1:fg:82:ASP:OD1	1:fg:83:GLY:N	2.43	0.50
2:fm:63:ARG:NH2	2:fp:205:MET:SD	2.84	0.50
2:fm:235:ASN:ND2	2:fm:283:LEU:HD11	2.26	0.50
1:fu:103:ARG:HG3	2:mj:61:GLY:HA3	1.93	0.50
2:fd:100:GLY:N	2:fd:101:PRO:CD	2.75	0.50
2:fm:62:GLN:OE1	1:fx:102:GLU:HG2	2.02	0.50
2:fn:63:ARG:HH12	2:lz:196:THR:HG23	1.76	0.50
2:fo:63:ARG:HD3	2:iw:196:THR:O	2.11	0.50
2:fp:60:ILE:HG12	1:gZ:105:THR:CB	2.41	0.50
2:fQ:278:VAL:O	2:fQ:278:VAL:HG23	2.11	0.50
2:ga:38:ILE:O	2:ga:38:ILE:HG13	2.11	0.50
2:gb:197:LYS:HE2	1:id:100:LYS:H	0.68	0.50
2:gb:225:GLN:N	2:gb:225:GLN:OE1	2.45	0.50
2:gd:100:GLY:N	2:gd:101:PRO:CD	2.74	0.50
2:gD:243:TYR:CE1	2:gD:294:LEU:HD21	2.46	0.50
2:gW:209:TYR:OH	2:lt:93:ASP:OD2	2.22	0.50
2:hg:63:ARG:HD3	2:il:196:THR:O	2.11	0.50
2:hk:197:LYS:HE3	1:kA:100:LYS:N	2.27	0.50
1:hn:98:LEU:HD23	2:hu:63:ARG:O	2.11	0.50
2:hx:103:MET:HE3	5:qz:34:GLN:HE22	1.76	0.50
2:hH:100:GLY:N	2:hH:101:PRO:CD	2.74	0.50
2:hJ:138:ASP:OD1	2:hJ:139:THR:N	2.43	0.50
2:hW:278:VAL:HG23	2:hW:278:VAL:O	2.11	0.50
1:ib:98:LEU:HD23	2:ij:63:ARG:O	2.11	0.50
2:iy:60:ILE:CG2	1:on:105:THR:HG21	2.39	0.50
1:iC:58:PHE:CD1	1:iC:101:VAL:HG21	2.47	0.50
2:iZ:103:MET:N	2:iZ:103:MET:SD	2.85	0.50
2:jb:100:GLY:N	2:jb:101:PRO:CD	2.75	0.50
2:jm:235:ASN:ND2	2:jm:283:LEU:HD11	2.26	0.50
2:jn:103:MET:N	2:jn:103:MET:SD	2.85	0.50
2:jp:280:VAL:O	2:jp:289:ASN:ND2	2.44	0.50
2:jN:63:ARG:HH12	2:pN:196:THR:HG23	1.76	0.50
2:jO:243:TYR:O	2:jO:247:ARG:HG2	2.11	0.50
2:jQ:96:LEU:HB2	2:or:12:LEU:HD11	1.92	0.50
1:jY:100:LYS:HE3	1:pP:100:LYS:HB2	1.92	0.50
2:kc:63:ARG:HD3	2:lu:196:THR:O	2.11	0.50
2:ks:233:GLU:O	2:ks:237:VAL:HG13	2.11	0.50
1:kI:100:LYS:HD3	1:kO:100:LYS:HZ1	1.75	0.50
2:kQ:225:GLN:N	2:kQ:225:GLN:OE1	2.45	0.50
2:kS:196:THR:HG21	2:nc:192:PHE:CZ	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kU:100:GLY:N	2:kU:101:PRO:CD	2.75	0.50
2:kV:171:TYR:OH	2:kV:216:ARG:NE	2.42	0.50
2:ld:93:ASP:OD2	2:mP:209:TYR:OH	2.22	0.50
2:le:56:LEU:HD12	2:mK:113:HIS:HB2	1.93	0.50
2:lf:63:ARG:NH2	2:li:205:MET:SD	2.84	0.50
2:lf:221:PHE:CG	2:lf:242:VAL:HG13	2.46	0.50
1:lm:105:THR:CB	2:pY:60:ILE:HG12	2.41	0.50
2:lx:75:ILE:CD1	2:lx:213:VAL:HG22	2.42	0.50
1:lA:82:ASP:OD1	1:lA:83:GLY:N	2.41	0.50
1:lE:100:LYS:NZ	1:ne:100:LYS:CD	2.71	0.50
2:II:103:MET:N	2:II:103:MET:SD	2.85	0.50
2:IJ:278:VAL:O	2:IJ:278:VAL:HG23	2.11	0.50
2:IV:235:ASN:ND2	2:IV:283:LEU:HD11	2.26	0.50
1:mb:58:PHE:CD1	1:mb:101:VAL:HG21	2.47	0.50
2:mh:38:ILE:O	2:mh:38:ILE:HG13	2.11	0.50
2:mj:63:ARG:NH2	2:mm:205:MET:SD	2.84	0.50
2:mj:224:TRP:HZ2	2:mj:242:VAL:HG11	1.75	0.50
2:mk:196:THR:O	2:mx:63:ARG:HD3	2.11	0.50
1:mE:98:LEU:HD23	2:mM:63:ARG:O	2.11	0.50
1:mR:58:PHE:CD1	1:mR:101:VAL:HG21	2.47	0.50
2:mY:274:ALA:HB1	2:mY:297:VAL:HG21	1.92	0.50
2:nc:186:GLU:N	2:nc:186:GLU:OE1	2.44	0.50
2:np:278:VAL:HG23	2:np:278:VAL:O	2.10	0.50
2:nq:233:GLU:O	2:nq:237:VAL:HG13	2.11	0.50
2:nB:221:PHE:CG	2:nB:242:VAL:HG13	2.46	0.50
2:nQ:103:MET:N	2:nQ:103:MET:SD	2.85	0.50
2:nT:196:THR:HG23	2:oc:63:ARG:HH12	1.76	0.50
1:nV:58:PHE:CD1	1:nV:101:VAL:HG21	2.47	0.50
2:oe:100:GLY:N	2:oe:101:PRO:CD	2.74	0.50
2:oH:278:VAL:O	2:oH:278:VAL:HG23	2.11	0.50
2:ph:221:PHE:CG	2:ph:242:VAL:HG13	2.46	0.50
2:pk:233:GLU:O	2:pk:237:VAL:HG13	2.11	0.50
1:pn:58:PHE:CD1	1:pn:101:VAL:HG21	2.47	0.50
2:py:233:GLU:O	2:py:237:VAL:HG13	2.11	0.50
2:pz:75:ILE:CD1	2:pz:213:VAL:HG22	2.42	0.50
1:pB:58:PHE:CD1	1:pB:101:VAL:HG21	2.47	0.50
2:pM:100:GLY:N	2:pM:101:PRO:CD	2.75	0.50
1:pQ:98:LEU:HD23	2:pY:63:ARG:O	2.11	0.50
4:ql:89:VAL:HG22	4:qm:245:ASP:CB	2.40	0.50
5:qr:217:HIS:CE1	6:qu:138:TRP:CH2	2.99	0.50
5:qt:236:LEU:HD21	5:qv:266:ILE:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qv:362:ARG:CG	5:qx:115:ASP:HB3	2.39	0.50
5:qB:217:HIS:CE1	6:qE:138:TRP:CH2	2.99	0.50
5:qB:284:PRO:HB2	5:qD:227:LEU:HD21	1.93	0.50
1:ac:103:ARG:HG3	2:OT:61:GLY:HA3	1.93	0.50
1:ad:100:LYS:H	2:oc:197:LYS:HE2	0.69	0.50
2:am:197:LYS:HE3	1:oQ:100:LYS:N	2.27	0.50
2:av:243:TYR:O	2:av:247:ARG:HG2	2.11	0.50
2:aI:56:LEU:HD12	2:kb:113:HIS:HB2	1.93	0.50
2:aW:243:TYR:CE1	2:aW:294:LEU:HD21	2.46	0.50
1:bd:57:VAL:HG22	1:bd:104:CYS:H	1.74	0.50
1:bd:58:PHE:CD1	1:bd:101:VAL:HG21	2.47	0.50
2:bl:260:ARG:HG2	2:bl:260:ARG:O	2.09	0.50
2:bm:196:THR:O	2:ds:63:ARG:HD3	2.11	0.50
2:bx:38:ILE:O	2:bx:38:ILE:HG13	2.11	0.50
2:bx:93:ASP:OD2	2:di:209:TYR:OH	2.22	0.50
2:by:225:GLN:OE1	2:by:225:GLN:N	2.45	0.50
1:bG:99:LEU:CD2	1:gL:102:GLU:HB2	2.33	0.50
2:bL:4:ILE:HG23	2:bL:5:THR:HG23	1.93	0.50
2:bM:9:ILE:O	2:bM:9:ILE:HG22	2.11	0.50
2:bM:81:GLU:O	2:bO:57:ARG:N	2.39	0.50
1:bS:100:LYS:HB2	1:hQ:100:LYS:HE3	1.92	0.50
2:cd:233:GLU:O	2:cd:237:VAL:HG13	2.11	0.50
2:cn:62:GLN:NE2	2:iA:197:LYS:HA	2.27	0.50
2:co:281:GLN:N	2:co:281:GLN:OE1	2.44	0.50
1:cv:98:LEU:HD23	2:cD:63:ARG:O	2.11	0.50
2:cC:63:ARG:HD3	2:pi:196:THR:O	2.11	0.50
2:cD:103:MET:N	2:cD:103:MET:SD	2.85	0.50
2:cP:274:ALA:HB1	2:cP:297:VAL:HG21	1.92	0.50
2:cT:219:VAL:HG22	2:cT:219:VAL:O	2.12	0.50
2:cU:75:ILE:CD1	2:cU:213:VAL:HG22	2.42	0.50
1:cW:58:PHE:CD1	1:cW:101:VAL:HG21	2.47	0.50
1:dk:58:PHE:CD1	1:dk:101:VAL:HG21	2.47	0.50
2:dr:141:HIS:CD2	2:dr:150:THR:HG1	2.29	0.50
2:du:278:VAL:HG23	2:du:278:VAL:O	2.10	0.50
2:dW:144:TYR:HH	2:dW:254:GLY:H	1.59	0.50
2:dF:243:TYR:CE1	2:dF:294:LEU:HD21	2.46	0.50
2:dH:100:GLY:N	2:dH:101:PRO:CD	2.74	0.50
2:dJ:138:ASP:OD1	2:dJ:139:THR:N	2.43	0.50
2:dK:75:ILE:CD1	2:dK:213:VAL:HG22	2.42	0.50
2:dS:38:ILE:O	2:dS:38:ILE:HG13	2.11	0.50
2:dT:197:LYS:HE2	1:nK:100:LYS:H	0.68	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eg:38:ILE:HG13	2:eg:38:ILE:O	2.11	0.50
2:ei:235:ASN:ND2	2:ei:283:LEU:HD11	2.26	0.50
2:el:233:GLU:O	2:el:237:VAL:HG13	2.11	0.50
2:em:144:TYR:HH	2:em:254:GLY:H	1.58	0.50
2:eI:150:THR:OG1	2:eI:220:GLY:O	2.18	0.50
2:eK:9:ILE:O	2:eK:9:ILE:HG22	2.11	0.50
2:fm:81:GLU:OE1	2:fm:83:THR:HG23	2.11	0.50
2:fz:225:GLN:OE1	2:fz:225:GLN:N	2.45	0.50
2:fB:100:GLY:N	2:fB:101:PRO:CD	2.74	0.50
2:fN:56:LEU:HD22	2:lU:82:SER:OG	2.10	0.50
2:gg:197:LYS:HE3	1:if:100:LYS:N	2.27	0.50
1:gj:98:LEU:HD23	2:gr:63:ARG:O	2.11	0.50
2:go:38:ILE:O	2:go:38:ILE:HG13	2.11	0.50
2:gE:9:ILE:O	2:gE:9:ILE:HG22	2.11	0.50
1:gM:82:ASP:OD1	1:gM:83:GLY:N	2.43	0.50
2:gR:82:SER:OG	2:lU:56:LEU:HD22	2.10	0.50
2:gT:196:THR:O	2:IV:63:ARG:HD3	2.11	0.50
2:gV:100:GLY:N	2:gV:101:PRO:CD	2.75	0.50
2:hs:170:TRP:CZ2	5:qz:176:ASN:O	2.55	0.50
2:hu:103:MET:SD	2:hu:103:MET:N	2.85	0.50
2:hx:75:ILE:CD1	2:hx:213:VAL:HG22	2.42	0.50
2:hx:197:LYS:HE3	1:hE:100:LYS:N	2.27	0.50
1:hz:58:PHE:CD1	1:hz:101:VAL:HG21	2.47	0.50
2:hG:235:ASN:ND2	2:hG:283:LEU:HD11	2.26	0.50
2:hU:281:GLN:OE1	2:hU:281:GLN:N	2.44	0.50
1:ia:58:PHE:CD1	1:ia:101:VAL:HG21	2.47	0.50
2:iv:56:LEU:HD22	2:jN:82:SER:OG	2.10	0.50
2:iv:280:VAL:O	2:iv:289:ASN:ND2	2.41	0.50
2:ix:60:ILE:HG12	1:pQ:105:THR:CB	2.41	0.50
2:ix:103:MET:N	2:ix:103:MET:SD	2.85	0.50
2:iI:4:ILE:HG23	2:iI:5:THR:HG23	1.93	0.50
2:iX:280:VAL:O	2:iX:289:ASN:ND2	2.41	0.50
2:jm:243:TYR:O	2:jm:247:ARG:HG2	2.11	0.50
2:jQ:197:LYS:HA	2:ls:62:GLN:NE2	2.27	0.50
1:jt:102:GLU:HB2	1:jV:99:LEU:CD2	2.33	0.50
2:jB:100:GLY:N	2:jB:101:PRO:CD	2.74	0.50
2:jC:278:VAL:HG23	2:jC:278:VAL:O	2.10	0.50
2:jE:75:ILE:CD1	2:jE:213:VAL:HG22	2.42	0.50
1:jW:99:LEU:CA	2:mZ:197:LYS:HZ1	2.11	0.50
2:kd:100:GLY:N	2:kd:101:PRO:CD	2.74	0.50
1:kj:60:ARG:HE	1:kj:102:GLU:HB2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kC:177:ARG:HH11	2:kC:213:VAL:HG21	1.75	0.50
2:kC:225:GLN:N	2:kC:225:GLN:OE1	2.45	0.50
2:kE:100:GLY:N	2:kE:101:PRO:CD	2.74	0.50
2:kH:57:ARG:NE	2:kH:64:VAL:HG22	2.24	0.50
2:kQ:82:SER:OG	2:mY:56:LEU:HD22	2.10	0.50
2:kR:224:TRP:HZ2	2:kR:242:VAL:HG11	1.75	0.50
2:kT:278:VAL:O	2:kT:278:VAL:HG23	2.11	0.50
1:kX:58:PHE:CD1	1:kX:101:VAL:HG21	2.47	0.50
2:lr:38:ILE:O	2:lr:38:ILE:HG13	2.11	0.50
2:ls:280:VAL:O	2:ls:289:ASN:ND2	2.41	0.50
2:lt:63:ARG:NH2	2:lw:205:MET:SD	2.84	0.50
1:lN:57:VAL:HG22	1:lN:104:CYS:H	1.75	0.50
2:mn:75:ILE:CD1	2:mn:213:VAL:HG22	2.42	0.50
1:mH:100:LYS:HE3	1:oL:100:LYS:HB2	1.92	0.50
2:mL:81:GLU:OE1	2:mL:83:THR:HG23	2.11	0.50
2:mN:60:ILE:CG2	1:oP:105:THR:HG21	2.39	0.50
2:nb:107:GLY:CA	2:nb:184:TYR:HE1	2.22	0.50
2:nb:278:VAL:O	2:nb:278:VAL:HG23	2.11	0.50
1:ng:98:LEU:HD23	2:no:63:ARG:O	2.12	0.50
2:nl:4:ILE:HG23	2:nl:5:THR:HG23	1.93	0.50
2:nA:141:HIS:CD2	2:nA:150:THR:HG1	2.29	0.50
2:nC:100:GLY:N	2:nC:101:PRO:CD	2.74	0.50
2:nE:100:GLY:N	2:nE:101:PRO:CD	2.75	0.50
2:nS:138:ASP:OD1	2:nS:139:THR:N	2.43	0.50
2:og:233:GLU:O	2:og:237:VAL:HG13	2.11	0.50
2:or:63:ARG:HD3	2:pY:196:THR:O	2.11	0.50
2:oF:63:ARG:NH2	2:oI:205:MET:SD	2.84	0.50
2:oI:100:GLY:N	2:oI:101:PRO:CD	2.75	0.50
2:pg:177:ARG:HH11	2:pg:213:VAL:HG21	1.75	0.50
2:pg:225:GLN:N	2:pg:225:GLN:OE1	2.45	0.50
1:pp:62:THR:OG1	1:pp:100:LYS:O	2.27	0.50
2:pz:197:LYS:HE3	1:pG:100:LYS:N	2.27	0.50
4:qj:188:ARG:NE	4:qj:204:GLU:OE1	2.43	0.50
5:qp:42:PRO:CD	6:qu:133:ASP:OD2	2.59	0.50
5:qp:238:LYS:HE3	5:qr:268:GLU:HA	1.93	0.50
6:qq:138:TRP:CH2	5:qL:217:HIS:CE1	2.99	0.50
5:qt:96:ARG:CD	5:qv:114:LEU:CD2	2.81	0.50
5:qv:234:ILE:HG23	5:qx:262:ALA:O	2.12	0.50
5:qz:217:HIS:CE1	6:qC:138:TRP:CH2	2.99	0.50
5:qD:217:HIS:CE1	6:qG:138:TRP:CH2	2.99	0.50
5:qD:238:LYS:HE3	5:qF:268:GLU:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qH:234:ILE:HG23	5:qJ:262:ALA:O	2.11	0.50
5:qJ:217:HIS:HE1	6:qM:138:TRP:CH2	2.28	0.50
1:af:100:LYS:N	2:oh:197:LYS:HE3	2.27	0.50
2:ah:282:ARG:HH11	2:oS:282:ARG:NH2	1.93	0.50
2:aw:196:THR:O	2:kp:63:ARG:HD3	2.12	0.50
2:ax:62:GLN:HG2	2:gt:197:LYS:HE3	1.91	0.50
1:aB:58:PHE:CD1	1:aB:101:VAL:HG21	2.47	0.50
2:aK:100:GLY:N	2:aK:101:PRO:CD	2.74	0.50
2:aM:186:GLU:N	2:aM:186:GLU:OE1	2.44	0.50
2:aN:197:LYS:HE3	1:iV:100:LYS:N	2.27	0.50
2:aW:63:ARG:HH12	2:iO:196:THR:HG23	1.76	0.50
2:aY:100:GLY:N	2:aY:101:PRO:CD	2.74	0.50
2:bC:100:GLY:N	2:bC:101:PRO:CD	2.75	0.50
1:bG:60:ARG:HE	1:bG:102:GLU:HB2	1.77	0.50
2:bO:107:GLY:CA	2:bO:184:TYR:HE1	2.22	0.50
2:bQ:75:ILE:CD1	2:bQ:213:VAL:HG22	2.42	0.50
2:bQ:95:ASN:ND2	5:qp:47:ARG:H	2.10	0.50
2:ce:75:ILE:CD1	2:ce:213:VAL:HG22	2.42	0.50
2:ce:196:THR:HG23	2:iJ:63:ARG:HH12	1.76	0.50
1:cg:58:PHE:CD1	1:cg:101:VAL:HG21	2.47	0.50
2:co:81:GLU:OE1	2:co:83:THR:HG23	2.11	0.50
1:cu:58:PHE:CD1	1:cu:101:VAL:HG21	2.47	0.50
1:cv:60:ARG:HE	1:cv:102:GLU:HB2	1.77	0.50
1:cx:100:LYS:H	2:pg:197:LYS:HE2	0.68	0.50
2:cF:100:GLY:N	2:cF:101:PRO:CD	2.75	0.50
2:cF:233:GLU:O	2:cF:237:VAL:HG13	2.11	0.50
1:cH:94:GLU:HG3	2:pg:2:ALA:N	2.25	0.50
2:cT:100:GLY:N	2:cT:101:PRO:CD	2.75	0.50
1:cX:99:LEU:HD21	1:gx:60:ARG:HH21	0.59	0.50
2:dc:38:ILE:O	2:dc:38:ILE:HG13	2.11	0.50
1:dz:60:ARG:HE	1:dz:102:GLU:HB2	1.77	0.50
2:dF:62:GLN:NE2	2:fc:197:LYS:HA	2.27	0.50
1:dM:58:PHE:CD1	1:dM:101:VAL:HG21	2.47	0.50
1:dR:100:LYS:NZ	1:oY:100:LYS:CD	2.71	0.50
2:dT:56:LEU:HD12	2:oS:113:HIS:HB2	1.93	0.50
2:dV:100:GLY:N	2:dV:101:PRO:CD	2.74	0.50
2:eh:63:ARG:HH12	2:nF:196:THR:HG23	1.76	0.50
2:el:219:VAL:HG22	2:el:219:VAL:O	2.12	0.50
2:ew:81:GLU:OE1	2:ew:83:THR:HG23	2.11	0.50
2:ez:233:GLU:O	2:ez:237:VAL:HG13	2.11	0.50
2:eI:13:LYS:NZ	2:gr:93:ASP:OD1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eI:38:ILE:O	2:eI:38:ILE:HG13	2.11	0.50
2:fb:138:ASP:OD1	2:fb:139:THR:N	2.43	0.50
1:fh:100:LYS:H	2:gD:197:LYS:HE2	0.69	0.50
2:fl:197:LYS:HE2	1:nw:100:LYS:H	0.68	0.50
2:fn:196:THR:O	2:nB:63:ARG:HD3	2.11	0.50
2:fo:96:LEU:HB2	2:ii:12:LEU:HD11	1.92	0.50
1:fx:100:LYS:NZ	1:ns:100:LYS:CD	2.71	0.50
2:fy:62:GLN:OE1	1:me:102:GLU:CD	2.53	0.50
2:fO:81:GLU:OE1	2:fO:83:THR:HG23	2.11	0.50
2:gr:103:MET:N	2:gr:103:MET:SD	2.85	0.50
1:gx:82:ASP:OD1	1:gx:83:GLY:N	2.41	0.50
1:gx:98:LEU:HD23	2:gF:63:ARG:O	2.11	0.50
2:gD:280:VAL:O	2:gD:289:ASN:ND2	2.41	0.50
2:gS:281:GLN:OE1	2:gS:281:GLN:N	2.44	0.50
2:hF:62:GLN:NE2	2:IL:197:LYS:HA	2.27	0.50
2:hg:221:PHE:CG	2:hg:242:VAL:HG13	2.46	0.50
2:hi:278:VAL:O	2:hi:278:VAL:HG23	2.10	0.50
2:hj:219:VAL:O	2:hj:219:VAL:HG22	2.12	0.50
1:hp:102:GLU:CD	2:ko:62:GLN:OE1	2.53	0.50
1:hy:100:LYS:CE	1:hE:100:LYS:HZ1	2.24	0.50
1:hA:60:ARG:HE	1:hA:102:GLU:HB2	1.77	0.50
2:hY:75:ILE:CD1	2:hY:213:VAL:HG22	2.42	0.50
2:il:280:VAL:O	2:il:289:ASN:ND2	2.44	0.50
1:ip:98:LEU:HD23	2:ix:63:ARG:O	2.11	0.50
1:ir:100:LYS:H	2:jN:197:LYS:HE2	0.69	0.50
2:iX:243:TYR:CE1	2:iX:294:LEU:HD21	2.46	0.50
2:iY:243:TYR:O	2:iY:247:ARG:HG2	2.11	0.50
2:iZ:93:ASP:OD1	2:jk:13:LYS:NZ	2.41	0.50
2:iZ:143:VAL:HG22	2:iZ:144:TYR:CE2	2.47	0.50
1:je:58:PHE:CD1	1:je:101:VAL:HG21	2.47	0.50
2:jl:282:ARG:HH11	2:ls:282:ARG:NH2	1.93	0.50
2:jm:81:GLU:OE1	2:jm:83:THR:HG23	2.11	0.50
2:jQ:197:LYS:HE3	1:lq:100:LYS:N	2.27	0.50
1:js:58:PHE:CD1	1:js:101:VAL:HG21	2.47	0.50
2:jB:143:VAL:HG22	2:jB:144:TYR:CE2	2.47	0.50
2:jM:4:ILE:HG23	2:jM:5:THR:HG23	1.93	0.50
2:jO:281:GLN:N	2:jO:281:GLN:OE1	2.44	0.50
2:jP:100:GLY:N	2:jP:101:PRO:CD	2.74	0.50
2:jR:138:ASP:OD1	2:jR:139:THR:N	2.43	0.50
2:jR:280:VAL:O	2:jR:289:ASN:ND2	2.44	0.50
2:kb:63:ARG:NE	2:ls:205:MET:CE	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ki:58:PHE:CD1	1:ki:101:VAL:HG21	2.47	0.50
2:kp:81:GLU:OE1	2:kp:83:THR:HG23	2.11	0.50
2:kp:221:PHE:CG	2:kp:242:VAL:HG13	2.46	0.50
2:kr:278:VAL:O	2:kr:278:VAL:HG23	2.10	0.50
2:ks:100:GLY:N	2:ks:101:PRO:CD	2.75	0.50
1:kw:99:LEU:CD2	1:lo:102:GLU:HB2	2.33	0.50
1:kx:103:ARG:HG3	2:kR:61:GLY:HA3	1.93	0.50
2:kF:278:VAL:HG23	2:kF:278:VAL:O	2.10	0.50
2:kH:197:LYS:HA	2:kQ:62:GLN:NE2	2.27	0.50
1:kW:102:GLU:OE2	1:mW:99:LEU:HD21	2.06	0.50
1:kY:60:ARG:HH21	1:lA:99:LEU:HD21	0.59	0.50
2:le:177:ARG:HH11	2:le:213:VAL:HG21	1.75	0.50
2:le:225:GLN:OE1	2:le:225:GLN:N	2.45	0.50
2:lf:191:SER:OG	2:oG:186:GLU:O	2.08	0.50
2:lh:107:GLY:CA	2:lh:184:TYR:HE1	2.22	0.50
2:lw:100:GLY:N	2:lw:101:PRO:CD	2.75	0.50
2:lH:9:ILE:O	2:lH:9:ILE:HG22	2.11	0.50
2:lH:235:ASN:ND2	2:lH:283:LEU:HD11	2.26	0.50
1:lN:58:PHE:CD1	1:lN:101:VAL:HG21	2.47	0.50
2:mi:113:HIS:HB2	2:mW:56:LEU:HD12	1.93	0.50
2:mn:196:THR:HG23	2:mW:63:ARG:HH12	1.76	0.50
1:mQ:60:ARG:HE	1:mQ:102:GLU:HB2	1.77	0.50
2:mB:196:THR:HG23	2:oE:63:ARG:HH12	1.76	0.50
1:mE:60:ARG:HE	1:mE:102:GLU:HB2	1.77	0.50
2:mK:63:ARG:HH12	2:ov:196:THR:HG23	1.76	0.50
2:mK:117:LEU:HD21	2:mK:211:TYR:HA	1.92	0.50
2:nd:75:ILE:CD1	2:nd:213:VAL:HG22	2.42	0.50
2:nn:81:GLU:OE1	2:nn:83:THR:HG23	2.11	0.50
2:nn:235:ASN:ND2	2:nn:283:LEU:HD11	2.26	0.50
2:nT:75:ILE:CD1	2:nT:213:VAL:HG22	2.42	0.50
1:nW:60:ARG:HE	1:nW:102:GLU:HB2	1.77	0.50
2:or:281:GLN:OE1	2:or:281:GLN:N	2.44	0.50
2:ou:100:GLY:N	2:ou:101:PRO:CD	2.75	0.50
2:ou:280:VAL:O	2:ou:289:ASN:ND2	2.44	0.50
2:ov:75:ILE:CD1	2:ov:213:VAL:HG22	2.42	0.50
2:oF:281:GLN:N	2:oF:281:GLN:OE1	2.44	0.50
2:oG:143:VAL:HG22	2:oG:144:TYR:CE2	2.47	0.50
1:oL:58:PHE:CD1	1:oL:101:VAL:HG21	2.47	0.50
2:oT:81:GLU:OE1	2:oT:83:THR:HG23	2.11	0.50
2:oT:235:ASN:ND2	2:oT:283:LEU:HD11	2.26	0.50
2:oT:243:TYR:O	2:oT:247:ARG:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pk:138:ASP:OD1	2:pk:139:THR:N	2.43	0.50
2:pk:171:TYR:OH	2:pk:175:THR:OG1	2.12	0.50
2:pv:224:TRP:HZ2	2:pv:242:VAL:HG11	1.75	0.50
2:pv:281:GLN:OE1	2:pv:281:GLN:N	2.44	0.50
2:py:219:VAL:O	2:py:219:VAL:HG22	2.12	0.50
2:pK:100:GLY:N	2:pK:101:PRO:CD	2.74	0.50
2:pX:81:GLU:OE1	2:pX:83:THR:HG23	2.11	0.50
2:qa:100:GLY:N	2:qa:101:PRO:CD	2.75	0.50
4:qm:89:VAL:HG22	4:qn:245:ASP:CB	2.40	0.50
5:qp:262:ALA:O	5:qL:234:ILE:HG23	2.11	0.50
5:qr:234:ILE:HG23	5:qt:262:ALA:O	2.11	0.50
5:qr:236:LEU:HD21	5:qt:266:ILE:HG12	1.92	0.50
5:qt:42:PRO:HD2	6:qy:133:ASP:OD2	2.11	0.50
5:qv:42:PRO:CD	6:qA:133:ASP:OD2	2.59	0.50
6:qy:112:LEU:CD2	6:qA:58:LEU:HD13	0.62	0.50
5:qF:234:ILE:HG23	5:qH:262:ALA:O	2.12	0.50
5:qH:236:LEU:HD21	5:qJ:266:ILE:HG12	1.92	0.50
5:qJ:236:LEU:HD21	5:qL:266:ILE:HG12	1.93	0.50
1:ab:60:ARG:HE	1:ab:102:GLU:HB2	1.77	0.50
2:aj:100:GLY:N	2:aj:101:PRO:CD	2.74	0.50
2:aj:196:THR:HG21	2:oW:192:PHE:CZ	2.42	0.50
2:al:192:PHE:CZ	2:oe:196:THR:HG21	2.42	0.50
1:ap:60:ARG:HE	1:ap:102:GLU:HB2	1.77	0.50
2:aK:50:LEU:HD11	2:aL:98:VAL:HG12	1.92	0.50
1:br:58:PHE:CD1	1:br:101:VAL:HG21	2.47	0.50
1:bv:102:GLU:CG	1:dy:99:LEU:HD11	2.42	0.50
2:by:82:SER:OG	2:hT:56:LEU:HD22	2.10	0.50
2:bz:63:ARG:NH2	2:bC:205:MET:SD	2.84	0.50
2:bB:62:GLN:HE21	2:dJ:197:LYS:HZ1	1.59	0.50
1:bG:102:GLU:HB2	1:gj:99:LEU:CD2	2.33	0.50
1:bK:100:LYS:N	2:hK:197:LYS:HE3	2.27	0.50
2:ca:81:GLU:OE1	2:ca:83:THR:HG23	2.11	0.50
2:cb:143:VAL:HG22	2:cb:144:TYR:CE2	2.47	0.50
2:cc:237:VAL:O	2:cc:237:VAL:HG12	2.12	0.50
2:cm:38:ILE:O	2:cm:38:ILE:HG13	2.11	0.50
2:cn:113:HIS:HB2	2:pu:56:LEU:HD12	1.93	0.50
2:co:12:LEU:HD11	2:jo:96:LEU:HB2	1.92	0.50
2:cp:143:VAL:HG22	2:cp:144:TYR:CE2	2.47	0.50
2:cr:219:VAL:O	2:cr:219:VAL:HG22	2.12	0.50
2:cs:36:THR:O	2:cs:175:THR:OG1	2.18	0.50
2:cs:197:LYS:HA	2:pu:62:GLN:NE2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ct:100:LYS:CD	1:ps:100:LYS:NZ	2.71	0.50
2:cB:56:LEU:HD12	2:pg:113:HIS:HB2	1.93	0.50
2:cD:143:VAL:HG22	2:cD:144:TYR:CE2	2.47	0.50
1:cI:58:PHE:CD1	1:cI:101:VAL:HG21	2.47	0.50
2:cS:96:LEU:HB2	2:iK:12:LEU:HD11	1.92	0.50
2:cU:197:LYS:HA	2:eX:62:GLN:NE2	2.27	0.50
2:df:143:VAL:HG22	2:df:144:TYR:CE2	2.47	0.50
2:dv:263:LEU:HD23	2:dv:296:GLN:NE2	2.27	0.50
2:dG:235:ASN:ND2	2:dG:283:LEU:HD11	2.26	0.50
2:dH:143:VAL:HG22	2:dH:144:TYR:CE2	2.47	0.50
1:dM:100:LYS:HB2	1:jK:100:LYS:HE3	1.92	0.50
1:dN:60:ARG:HE	1:dN:102:GLU:HB2	1.77	0.50
2:dY:196:THR:HG23	2:nO:63:ARG:HH12	1.76	0.50
2:ej:103:MET:N	2:ej:103:MET:SD	2.85	0.50
2:eu:38:ILE:O	2:eu:38:ILE:HG13	2.11	0.50
2:ey:96:LEU:HB2	2:ph:12:LEU:HD11	1.92	0.50
1:eC:58:PHE:CD1	1:eC:101:VAL:HG21	2.47	0.50
2:eJ:62:GLN:NE2	2:gu:197:LYS:HA	2.27	0.50
2:eK:61:GLY:HA3	1:gk:103:ARG:HG3	1.93	0.50
2:eK:63:ARG:HD3	2:gr:196:THR:O	2.11	0.50
1:eQ:100:LYS:HB2	1:iG:100:LYS:HE3	1.92	0.50
2:eX:243:TYR:CE1	2:eX:294:LEU:HD21	2.46	0.50
2:fa:237:VAL:O	2:fa:237:VAL:HG12	2.12	0.50
1:fg:103:ARG:HG3	2:nB:61:GLY:HA3	1.93	0.50
2:fz:56:LEU:HD12	2:nM:113:HIS:HB2	1.93	0.50
2:fz:280:VAL:O	2:fz:289:ASN:ND2	2.41	0.50
2:fB:143:VAL:HG22	2:fB:144:TYR:CE2	2.47	0.50
2:fE:197:LYS:HA	2:mi:62:GLN:NE2	2.27	0.50
1:fY:100:LYS:HE3	1:mp:100:LYS:HB2	1.92	0.50
2:ga:62:GLN:OE1	1:id:102:GLU:HG2	2.02	0.50
2:ge:62:GLN:HG2	2:mA:197:LYS:HE3	1.91	0.50
1:gi:58:PHE:CD1	1:gi:101:VAL:HG21	2.47	0.50
1:gj:60:ARG:HE	1:gj:102:GLU:HB2	1.77	0.50
2:gq:235:ASN:ND2	2:gq:283:LEU:HD11	2.26	0.50
2:gt:233:GLU:O	2:gt:237:VAL:HG13	2.11	0.50
2:gF:143:VAL:HG22	2:gF:144:TYR:CE2	2.47	0.50
2:gR:113:HIS:HB2	2:lU:56:LEU:HD12	1.93	0.50
2:gT:100:GLY:N	2:gT:101:PRO:CD	2.74	0.50
2:gT:143:VAL:HG22	2:gT:144:TYR:CE2	2.47	0.50
2:gV:263:LEU:HD23	2:gV:296:GLN:NE2	2.27	0.50
2:hF:63:ARG:HH12	2:lL:196:THR:HG23	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hs:107:GLY:H	5:qB:178:PRO:HG3	1.68	0.50
2:hw:233:GLU:O	2:hw:237:VAL:HG13	2.11	0.50
2:hS:38:ILE:HG13	2:hS:38:ILE:O	2.11	0.50
2:hX:219:VAL:HG22	2:hX:219:VAL:O	2.12	0.50
2:iv:63:ARG:HH12	2:jS:196:THR:HG23	1.76	0.50
2:iw:63:ARG:HD3	2:jP:196:THR:O	2.11	0.50
2:iy:237:VAL:O	2:iy:237:VAL:HG12	2.12	0.50
2:iy:278:VAL:HG23	2:iy:278:VAL:O	2.10	0.50
1:iD:60:ARG:HH21	1:po:99:LEU:HD21	0.59	0.50
2:iM:237:VAL:O	2:iM:237:VAL:HG12	2.12	0.50
2:iN:138:ASP:OD1	2:iN:139:THR:N	2.43	0.50
1:iR:60:ARG:HE	1:iR:102:GLU:HB2	1.77	0.50
2:jb:219:VAL:O	2:jb:219:VAL:HG22	2.12	0.50
2:jb:280:VAL:O	2:jb:289:ASN:ND2	2.44	0.50
2:jl:243:TYR:CE1	2:jl:294:LEU:HD21	2.46	0.50
2:jm:9:ILE:HG22	2:jm:9:ILE:O	2.11	0.50
2:jp:100:GLY:N	2:jp:101:PRO:CD	2.75	0.50
1:ju:103:ARG:HG3	2:pX:61:GLY:HA3	1.93	0.50
2:jz:225:GLN:N	2:jz:225:GLN:OE1	2.45	0.50
2:jA:63:ARG:HD3	2:lg:196:THR:O	2.11	0.50
2:jA:243:TYR:O	2:jA:247:ARG:HG2	2.11	0.50
2:jD:219:VAL:HG22	2:jD:219:VAL:O	2.12	0.50
2:jD:233:GLU:O	2:jD:237:VAL:HG13	2.11	0.50
2:jP:103:MET:N	2:jP:103:MET:SD	2.85	0.50
1:jU:58:PHE:CD1	1:jU:101:VAL:HG21	2.47	0.50
2:ke:60:ILE:CG2	1:pT:105:THR:HG21	2.39	0.50
2:ke:278:VAL:HG23	2:ke:278:VAL:O	2.10	0.50
2:kf:100:GLY:N	2:kf:101:PRO:CD	2.75	0.50
2:kq:100:GLY:N	2:kq:101:PRO:CD	2.74	0.50
2:kB:38:ILE:O	2:kB:38:ILE:HG13	2.11	0.50
2:kG:100:GLY:N	2:kG:101:PRO:CD	2.75	0.50
1:kJ:58:PHE:CD1	1:kJ:101:VAL:HG21	2.47	0.50
2:kQ:113:HIS:HB2	2:mY:56:LEU:HD12	1.93	0.50
2:kR:235:ASN:ND2	2:kR:283:LEU:HD11	2.26	0.50
2:kR:281:GLN:OE1	2:kR:281:GLN:N	2.44	0.50
2:lf:63:ARG:HD3	2:mM:196:THR:O	2.11	0.50
1:ln:62:THR:OG1	1:ln:100:LYS:O	2.27	0.50
2:ls:225:GLN:N	2:ls:225:GLN:OE1	2.45	0.50
2:lt:235:ASN:ND2	2:lt:283:LEU:HD11	2.26	0.50
2:lw:233:GLU:O	2:lw:237:VAL:HG13	2.11	0.50
2:lH:61:GLY:CA	1:mT:103:ARG:NH1	2.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IH:63:ARG:HD3	2:na:196:THR:O	2.12	0.50
2:IL:75:ILE:CD1	2:IL:213:VAL:HG22	2.42	0.50
1:IO:98:LEU:HD23	2:IW:63:ARG:O	2.11	0.50
2:mi:280:VAL:O	2:mi:289:ASN:ND2	2.41	0.50
2:mw:113:HIS:HB2	2:oE:56:LEU:HD12	1.93	0.50
2:mz:237:VAL:O	2:mz:237:VAL:HG12	2.12	0.50
2:mK:56:LEU:HD22	2:oq:82:SER:OG	2.11	0.50
1:mT:82:ASP:OD1	1:mT:83:GLY:N	2.43	0.50
2:na:143:VAL:HG22	2:na:144:TYR:CE2	2.47	0.50
2:nc:138:ASP:OD1	2:nc:139:THR:N	2.43	0.50
2:nc:233:GLU:O	2:nc:237:VAL:HG13	2.12	0.50
2:nm:62:GLN:NE2	2:oJ:197:LYS:HA	2.27	0.50
2:no:100:GLY:N	2:no:101:PRO:CD	2.74	0.50
2:np:237:VAL:O	2:np:237:VAL:HG12	2.12	0.50
2:nB:81:GLU:OE1	2:nB:83:THR:HG23	2.11	0.50
2:nB:235:ASN:ND2	2:nB:283:LEU:HD11	2.26	0.50
2:nD:278:VAL:HG23	2:nD:278:VAL:O	2.10	0.50
2:nE:219:VAL:HG22	2:nE:219:VAL:O	2.12	0.50
2:nO:141:HIS:CD2	2:nO:150:THR:HG1	2.28	0.50
2:nO:197:LYS:HE2	1:nY:100:LYS:H	0.68	0.50
2:nQ:100:GLY:N	2:nQ:101:PRO:CD	2.74	0.50
2:od:9:ILE:HG22	2:od:9:ILE:O	2.11	0.50
2:oe:103:MET:N	2:oe:103:MET:SD	2.85	0.50
2:og:100:GLY:N	2:og:101:PRO:CD	2.75	0.50
1:ok:60:ARG:HE	1:ok:102:GLU:HB2	1.77	0.50
2:or:235:ASN:ND2	2:or:283:LEU:HD11	2.26	0.50
2:oD:4:ILE:HG23	2:oD:5:THR:HG23	1.93	0.50
2:oJ:75:ILE:CD1	2:oJ:213:VAL:HG22	2.42	0.50
2:oW:219:VAL:O	2:oW:219:VAL:HG22	2.12	0.50
2:pk:100:GLY:N	2:pk:101:PRO:CD	2.75	0.50
1:pp:103:ARG:HG3	2:pJ:61:GLY:HA3	1.93	0.50
2:py:280:VAL:O	2:py:289:ASN:ND2	2.44	0.50
1:pC:60:ARG:HE	1:pC:102:GLU:HB2	1.77	0.50
1:pP:58:PHE:CD1	1:pP:101:VAL:HG21	2.47	0.50
3:qd:63:GLN:O	4:qn:33:SER:O	2.29	0.50
5:qp:266:ILE:HG12	5:qL:236:LEU:HD21	1.93	0.50
5:qt:42:PRO:CD	6:qy:133:ASP:OD2	2.59	0.50
5:qt:250:THR:HG21	6:qu:125:VAL:HG22	1.94	0.50
5:qt:284:PRO:HB2	5:qv:227:LEU:HD21	1.93	0.50
5:qx:42:PRO:CD	6:qC:133:ASP:OD2	2.59	0.50
5:qz:234:ILE:HG23	5:qB:262:ALA:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qz:284:PRO:HB2	5:qB:227:LEU:CD2	2.42	0.50
5:qB:207:ARG:NE	5:qD:69:GLU:OE2	2.43	0.50
5:qJ:53:GLU:CD	5:qL:35:HIS:CE1	2.80	0.50
2:ai:63:ARG:HD3	2:oe:196:THR:O	2.11	0.50
1:an:102:GLU:OE2	1:oQ:99:LEU:HD21	2.06	0.50
1:ar:102:GLU:CD	2:bL:62:GLN:OE1	2.53	0.50
2:au:38:ILE:O	2:au:38:ILE:HG13	2.11	0.50
2:ay:263:LEU:HD23	2:ay:296:GLN:NE2	2.27	0.50
2:aN:36:THR:O	2:aN:175:THR:OG1	2.18	0.50
2:aN:75:ILE:CD1	2:aN:213:VAL:HG22	2.42	0.50
2:aY:143:VAL:HG22	2:aY:144:TYR:CE2	2.47	0.50
2:ba:219:VAL:HG22	2:ba:219:VAL:O	2.12	0.50
2:bo:100:GLY:N	2:bo:101:PRO:CD	2.75	0.50
2:bz:81:GLU:OE1	2:bz:83:THR:HG23	2.11	0.50
2:bC:263:LEU:HD23	2:bC:296:GLN:NE2	2.27	0.50
2:cb:100:GLY:N	2:cb:101:PRO:CD	2.74	0.50
2:cd:100:GLY:N	2:cd:101:PRO:CD	2.75	0.50
2:cd:219:VAL:HG22	2:cd:219:VAL:O	2.12	0.50
2:cp:196:THR:O	2:pv:63:ARG:HD3	2.11	0.50
2:cB:225:GLN:N	2:cB:225:GLN:OE1	2.45	0.50
2:cF:219:VAL:O	2:cF:219:VAL:HG22	2.12	0.50
1:cJ:60:ARG:HE	1:cJ:102:GLU:HB2	1.77	0.50
2:cR:103:MET:SD	2:cR:103:MET:N	2.85	0.50
1:cX:60:ARG:HE	1:cX:102:GLU:HB2	1.77	0.50
1:cX:82:ASP:OD1	1:cX:83:GLY:N	2.41	0.50
2:dh:233:GLU:O	2:dh:237:VAL:HG13	2.11	0.50
2:di:75:ILE:CD1	2:di:213:VAL:HG22	2.42	0.50
2:dq:4:ILE:HG23	2:dq:5:THR:HG23	1.93	0.50
2:dt:100:GLY:N	2:dt:101:PRO:CD	2.74	0.50
2:dt:103:MET:N	2:dt:103:MET:SD	2.85	0.50
2:dv:197:LYS:HE3	2:kr:62:GLN:HG2	1.91	0.50
2:dJ:219:VAL:HG22	2:dJ:219:VAL:O	2.12	0.50
2:dT:243:TYR:CE1	2:dT:294:LEU:HD21	2.46	0.50
2:dX:100:GLY:N	2:dX:101:PRO:CD	2.75	0.50
2:eh:225:GLN:N	2:eh:225:GLN:OE1	2.45	0.50
2:ej:100:GLY:N	2:ej:101:PRO:CD	2.74	0.50
2:eu:4:ILE:HG23	2:eu:5:THR:HG23	1.93	0.50
2:ew:235:ASN:ND2	2:ew:283:LEU:HD11	2.26	0.50
2:ez:100:GLY:N	2:ez:101:PRO:CD	2.75	0.50
2:ez:219:VAL:HG22	2:ez:219:VAL:O	2.12	0.50
2:ez:263:LEU:HD23	2:ez:296:GLN:NE2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eA:75:ILE:CD1	2:eA:213:VAL:HG22	2.42	0.50
1:eF:102:GLU:CD	2:go:62:GLN:OE1	2.53	0.50
2:eL:50:LEU:HD11	2:eM:98:VAL:HG12	1.92	0.50
2:fa:107:GLY:CA	2:fa:184:TYR:HE1	2.22	0.50
2:fb:263:LEU:HD23	2:fb:296:GLN:NE2	2.27	0.50
2:fn:143:VAL:HG22	2:fn:144:TYR:CE2	2.47	0.50
2:fp:233:GLU:O	2:fp:237:VAL:HG13	2.11	0.50
2:fz:117:LEU:HD21	2:fz:211:TYR:HA	1.92	0.50
2:fA:61:GLY:HA3	1:nh:103:ARG:HG3	1.93	0.50
2:fA:81:GLU:OE1	2:fA:83:THR:HG23	2.11	0.50
2:fC:278:VAL:O	2:fC:278:VAL:HG23	2.11	0.50
1:fG:58:PHE:CD1	1:fG:101:VAL:HG21	2.47	0.50
2:fM:43:ALA:O	2:fM:44:SER:OG	2.20	0.50
2:fM:93:ASP:OD2	2:lZ:209:TYR:OH	2.22	0.50
2:fQ:237:VAL:HG12	2:fQ:237:VAL:O	2.12	0.50
2:gb:113:HIS:HB2	2:ih:56:LEU:HD12	1.93	0.50
2:gc:243:TYR:O	2:gc:247:ARG:HG2	2.11	0.50
2:gf:100:GLY:N	2:gf:101:PRO:CD	2.75	0.50
1:gn:100:LYS:N	2:hY:197:LYS:HE3	2.27	0.50
2:gp:56:LEU:HD22	2:hT:82:SER:OG	2.10	0.50
2:gp:280:VAL:O	2:gp:289:ASN:ND2	2.41	0.50
2:gq:63:ARG:NH2	2:gt:205:MET:SD	2.84	0.50
2:gE:243:TYR:O	2:gE:247:ARG:HG2	2.11	0.50
2:hk:197:LYS:HA	2:kC:62:GLN:NE2	2.27	0.50
1:hn:60:ARG:HE	1:hn:102:GLU:HB2	1.77	0.50
1:hz:99:LEU:HD11	1:kN:102:GLU:CG	2.42	0.50
2:hF:31:TYR:OH	5:qv:178:PRO:HB3	2.11	0.50
2:ih:225:GLN:OE1	2:ih:225:GLN:N	2.45	0.50
2:iy:62:GLN:HE21	2:ou:197:LYS:HZ1	1.57	0.50
2:iz:233:GLU:O	2:iz:237:VAL:HG13	2.11	0.50
2:iI:43:ALA:O	2:iI:44:SER:OG	2.20	0.50
2:iK:9:ILE:HG22	2:iK:9:ILE:O	2.11	0.50
2:iW:38:ILE:O	2:iW:38:ILE:HG13	2.11	0.50
2:iY:235:ASN:ND2	2:iY:283:LEU:HD11	2.26	0.50
1:js:100:LYS:HB2	1:lD:100:LYS:HE3	1.92	0.50
1:jt:60:ARG:HE	1:jt:102:GLU:HB2	1.77	0.50
2:jA:61:GLY:HA3	1:kZ:103:ARG:HG3	1.93	0.50
2:jR:100:GLY:N	2:jR:101:PRO:CD	2.75	0.50
1:jV:60:ARG:HE	1:jV:102:GLU:HB2	1.77	0.50
2:kf:219:VAL:HG22	2:kf:219:VAL:O	2.12	0.50
2:kg:75:ILE:CD1	2:kg:213:VAL:HG22	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kq:103:MET:N	2:kq:103:MET:SD	2.85	0.50
2:kD:281:GLN:OE1	2:kD:281:GLN:N	2.44	0.50
2:kF:237:VAL:O	2:kF:237:VAL:HG12	2.12	0.50
2:kH:75:ILE:CD1	2:kH:213:VAL:HG22	2.42	0.50
2:kH:196:THR:HG23	2:kQ:63:ARG:HH12	1.76	0.50
2:kU:233:GLU:O	2:kU:237:VAL:HG13	2.11	0.50
1:lc:100:LYS:N	2:mP:197:LYS:HE3	2.27	0.50
1:lA:60:ARG:HE	1:lA:102:GLU:HB2	1.77	0.50
2:lW:100:GLY:N	2:lW:101:PRO:CD	2.74	0.50
2:lY:233:GLU:O	2:lY:237:VAL:HG13	2.11	0.50
2:lZ:75:ILE:CD1	2:lZ:213:VAL:HG22	2.42	0.50
2:mm:100:GLY:N	2:mm:101:PRO:CD	2.75	0.50
2:my:143:VAL:HG22	2:my:144:TYR:CE2	2.47	0.50
1:mI:100:LYS:N	2:ov:197:LYS:HE3	2.27	0.50
2:mL:9:ILE:HG22	2:mL:9:ILE:O	2.11	0.50
1:nf:58:PHE:CD1	1:nf:101:VAL:HG21	2.47	0.50
2:nq:263:LEU:HD23	2:nq:296:GLN:NE2	2.27	0.50
1:nt:58:PHE:CD1	1:nt:101:VAL:HG21	2.47	0.50
2:nC:143:VAL:HG22	2:nC:144:TYR:CE2	2.47	0.50
2:nN:62:GLN:OE1	1:nY:102:GLU:CD	2.53	0.50
2:nR:278:VAL:HG23	2:nR:278:VAL:O	2.11	0.50
2:or:9:ILE:O	2:or:9:ILE:HG22	2.11	0.50
1:oy:98:LEU:HD23	2:oG:63:ARG:O	2.11	0.50
2:oD:38:ILE:O	2:oD:38:ILE:HG13	2.11	0.50
2:oF:81:GLU:O	2:oH:57:ARG:N	2.39	0.50
2:oF:243:TYR:O	2:oF:247:ARG:HG2	2.11	0.50
2:ph:294:LEU:H	2:ph:294:LEU:HD23	1.77	0.50
2:pi:143:VAL:HG22	2:pi:144:TYR:CE2	2.47	0.50
1:po:60:ARG:HE	1:po:102:GLU:HB2	1.77	0.50
2:pw:100:GLY:N	2:pw:101:PRO:CD	2.74	0.50
1:pR:62:THR:OG1	1:pR:100:LYS:O	2.27	0.50
2:pV:4:ILE:HG23	2:pV:5:THR:HG23	1.93	0.50
2:pX:243:TYR:O	2:pX:247:ARG:HG2	2.11	0.50
2:pY:100:GLY:N	2:pY:101:PRO:CD	2.74	0.50
2:qa:138:ASP:OD1	2:qa:139:THR:N	2.43	0.50
3:qd:12:PRO:HA	3:qd:15:ILE:HB	1.93	0.50
5:qp:115:ASP:HB3	5:qL:362:ARG:CG	2.39	0.50
5:qp:227:LEU:CD2	5:qL:284:PRO:HB2	2.42	0.50
5:qp:236:LEU:HD21	5:qr:266:ILE:HG12	1.93	0.50
5:qr:238:LYS:HE3	5:qt:268:GLU:HA	1.93	0.50
6:qu:112:LEU:CD2	6:qw:58:LEU:HD13	0.62	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qv:250:THR:HG21	6:qw:125:VAL:HG22	1.94	0.50
5:qv:284:PRO:HB2	5:qx:227:LEU:CD2	2.42	0.50
5:qv:284:PRO:HB2	5:qx:227:LEU:HD21	1.93	0.50
5:qz:236:LEU:HD21	5:qB:266:ILE:HG12	1.93	0.50
5:qz:284:PRO:HB2	5:qB:227:LEU:HD21	1.93	0.50
5:qF:42:PRO:CD	6:qK:133:ASP:OD2	2.59	0.50
5:qF:252:LEU:CD2	6:qI:126:GLN:HG2	2.36	0.50
2:ah:62:GLN:NE2	2:oh:197:LYS:HA	2.27	0.50
2:aj:143:VAL:HG22	2:aj:144:TYR:CE2	2.47	0.50
2:al:197:LYS:HE3	2:fC:62:GLN:HG2	1.91	0.50
2:al:233:GLU:O	2:al:237:VAL:HG13	2.11	0.50
2:av:235:ASN:ND2	2:av:283:LEU:HD11	2.26	0.50
2:aM:192:PHE:CZ	2:kd:196:THR:HG21	2.42	0.50
2:aM:233:GLU:O	2:aM:237:VAL:HG13	2.11	0.50
2:aM:263:LEU:HD23	2:aM:296:GLN:NE2	2.27	0.50
2:bb:75:ILE:CD1	2:bb:213:VAL:HG22	2.42	0.50
2:bb:197:LYS:HE3	1:bi:100:LYS:N	2.27	0.50
2:bp:197:LYS:HA	2:dr:62:GLN:NE2	2.27	0.50
2:bz:63:ARG:HD3	2:df:196:THR:O	2.11	0.50
2:bA:143:VAL:HG22	2:bA:144:TYR:CE2	2.47	0.50
1:bT:60:ARG:HE	1:bT:102:GLU:HB2	1.77	0.50
1:bT:98:LEU:HD23	2:cb:63:ARG:O	2.11	0.50
2:bY:38:ILE:O	2:bY:38:ILE:HG13	2.11	0.50
2:ca:281:GLN:N	2:ca:281:GLN:OE1	2.44	0.50
1:ch:60:ARG:HE	1:ch:102:GLU:HB2	1.77	0.50
2:cm:93:ASP:OD2	2:iA:209:TYR:OH	2.22	0.50
2:cn:64:VAL:H	2:iv:81:GLU:HG2	1.77	0.50
2:co:63:ARG:NH2	2:cr:205:MET:SD	2.84	0.50
2:cq:62:GLN:HG2	2:lw:197:LYS:HE3	1.91	0.50
2:cP:243:TYR:CE1	2:cP:294:LEU:HD21	2.46	0.50
2:cU:197:LYS:HE3	1:eV:100:LYS:N	2.27	0.50
2:de:235:ASN:ND2	2:de:283:LEU:HD11	2.26	0.50
2:dh:219:VAL:O	2:dh:219:VAL:HG22	2.12	0.50
1:dl:98:LEU:HD23	2:dt:63:ARG:O	2.11	0.50
1:do:100:LYS:HE3	1:ki:100:LYS:HB2	1.92	0.50
2:ds:281:GLN:OE1	2:ds:281:GLN:N	2.44	0.50
2:dG:281:GLN:OE1	2:dG:281:GLN:N	2.44	0.50
2:dU:61:GLY:CA	1:oN:103:ARG:NH1	2.70	0.50
2:dX:263:LEU:HD23	2:dX:296:GLN:NE2	2.27	0.50
2:ei:294:LEU:H	2:ei:294:LEU:HD23	1.77	0.50
2:em:197:LYS:HE3	1:et:100:LYS:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ep:98:LEU:HD23	2:ex:63:ARG:O	2.11	0.50
2:ex:103:MET:N	2:ex:103:MET:SD	2.85	0.50
2:eJ:56:LEU:HD12	2:gp:113:HIS:HB2	1.93	0.50
2:eN:219:VAL:HG22	2:eN:219:VAL:O	2.12	0.50
2:eY:281:GLN:N	2:eY:281:GLN:OE1	2.44	0.50
1:fe:58:PHE:CD1	1:fe:101:VAL:HG21	2.47	0.50
2:fm:63:ARG:HD3	2:gF:196:THR:O	2.11	0.50
2:fq:185:GLN:O	2:fq:205:MET:N	2.43	0.50
2:fA:61:GLY:CA	1:nh:103:ARG:NH1	2.70	0.50
2:fD:233:GLU:O	2:fD:237:VAL:HG13	2.11	0.50
1:fF:100:LYS:CD	1:mg:100:LYS:NZ	2.71	0.50
1:fF:100:LYS:HD3	1:mg:100:LYS:HZ1	1.74	0.50
1:fH:98:LEU:HD23	2:fP:63:ARG:O	2.11	0.50
2:gb:184:TYR:HH	2:gb:204:PHE:HD1	1.54	0.50
2:gd:143:VAL:HG22	2:gd:144:TYR:CE2	2.47	0.50
2:gq:221:PHE:CG	2:gq:242:VAL:HG13	2.46	0.50
2:gF:103:MET:N	2:gF:103:MET:SD	2.85	0.50
1:gK:58:PHE:CD1	1:gK:101:VAL:HG21	2.47	0.50
1:gP:100:LYS:N	2:im:197:LYS:HE3	2.27	0.50
2:gR:62:GLN:NE2	2:im:197:LYS:HA	2.27	0.50
2:hf:56:LEU:HD12	2:lG:113:HIS:HB2	1.93	0.50
2:hf:243:TYR:CE1	2:hf:294:LEU:HD21	2.46	0.50
2:hg:192:PHE:HB2	2:hg:195:MET:HE2	1.94	0.50
2:hg:235:ASN:ND2	2:hg:283:LEU:HD11	2.26	0.50
2:hh:100:GLY:N	2:hh:101:PRO:CD	2.74	0.50
2:hh:143:VAL:HG22	2:hh:144:TYR:CE2	2.47	0.50
1:ho:82:ASP:OD1	1:ho:83:GLY:N	2.43	0.50
1:hr:69:ALA:O	6:qG:116:GLY:HA3	2.12	0.50
2:hs:38:ILE:HG13	2:hs:38:ILE:O	2.11	0.50
2:hs:107:GLY:C	5:qB:177:SER:CA	2.75	0.50
2:hw:263:LEU:HD23	2:hw:296:GLN:NE2	2.27	0.50
2:hF:38:ILE:O	2:hF:38:ILE:HG13	2.11	0.50
2:hH:103:MET:SD	2:hH:103:MET:N	2.85	0.50
2:hI:237:VAL:HG12	2:hI:237:VAL:O	2.12	0.50
2:ii:243:TYR:O	2:ii:247:ARG:HG2	2.11	0.50
2:ik:62:GLN:HG2	2:nE:197:LYS:HE3	1.91	0.50
2:im:75:ILE:CD1	2:im:213:VAL:HG22	2.42	0.50
1:ip:60:ARG:HE	1:ip:102:GLU:HB2	1.77	0.50
2:iz:219:VAL:HG22	2:iz:219:VAL:O	2.12	0.50
2:iz:280:VAL:O	2:iz:289:ASN:ND2	2.44	0.50
2:iK:81:GLU:OE1	2:iK:83:THR:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iN:233:GLU:O	2:iN:237:VAL:HG13	2.11	0.50
2:iN:263:LEU:HD23	2:iN:296:GLN:NE2	2.27	0.50
1:iR:98:LEU:HD23	2:iZ:63:ARG:O	2.11	0.50
2:iX:177:ARG:HH11	2:iX:213:VAL:HG21	1.75	0.50
2:jD:263:LEU:HD23	2:jD:296:GLN:NE2	2.27	0.50
2:jE:196:THR:HG23	2:pW:63:ARG:HH12	1.76	0.50
2:jE:197:LYS:HE3	1:pU:100:LYS:N	2.27	0.50
1:jG:57:VAL:HG22	1:jG:104:CYS:H	1.75	0.50
1:jI:99:LEU:C	2:or:197:LYS:NZ	2.58	0.50
2:jN:62:GLN:NE2	2:pN:197:LYS:HA	2.27	0.50
2:jR:233:GLU:O	2:jR:237:VAL:HG13	2.11	0.50
2:jR:263:LEU:HD23	2:jR:296:GLN:NE2	2.27	0.50
2:kb:62:GLN:NE2	2:lx:197:LYS:HA	2.27	0.50
2:kb:64:VAL:H	2:ls:81:GLU:HG2	1.77	0.50
2:kc:221:PHE:CG	2:kc:242:VAL:HG13	2.46	0.50
2:kp:192:PHE:HB2	2:kp:195:MET:HE2	1.94	0.50
2:kC:81:GLU:HG2	2:kQ:64:VAL:H	1.77	0.50
1:kZ:82:ASP:OD1	1:kZ:83:GLY:N	2.43	0.50
2:lf:243:TYR:O	2:lf:247:ARG:HG2	2.11	0.50
1:ll:58:PHE:CD1	1:ll:101:VAL:HG21	2.47	0.50
2:lu:100:GLY:N	2:lu:101:PRO:CD	2.74	0.50
2:lu:103:MET:N	2:lu:103:MET:SD	2.85	0.50
1:lE:100:LYS:N	2:nd:197:LYS:HE3	2.27	0.50
2:IY:263:LEU:HD23	2:IY:296:GLN:NE2	2.27	0.50
2:mj:81:GLU:OE1	2:mj:83:THR:HG23	2.11	0.50
2:mw:280:VAL:O	2:mw:289:ASN:ND2	2.41	0.50
2:mA:171:TYR:OH	2:mA:175:THR:OG1	2.12	0.50
2:mA:219:VAL:O	2:mA:219:VAL:HG22	2.12	0.50
2:mY:243:TYR:CE1	2:mY:294:LEU:HD21	2.46	0.50
2:mZ:235:ASN:ND2	2:mZ:283:LEU:HD11	2.26	0.50
1:nh:82:ASP:OD1	1:nh:83:GLY:N	2.43	0.50
2:nl:38:ILE:HG13	2:nl:38:ILE:O	2.11	0.50
2:nq:100:GLY:N	2:nq:101:PRO:CD	2.75	0.50
2:nz:4:ILE:HG23	2:nz:5:THR:HG23	1.93	0.50
2:nB:63:ARG:NH2	2:nE:205:MET:SD	2.84	0.50
2:nB:192:PHE:HB2	2:nB:195:MET:HE2	1.94	0.50
2:nP:12:LEU:HD11	2:pj:96:LEU:HB2	1.92	0.50
2:nQ:143:VAL:HG22	2:nQ:144:TYR:CE2	2.47	0.50
1:nU:100:LYS:HD3	1:oa:100:LYS:HZ1	1.74	0.50
1:nW:98:LEU:HD23	2:oe:63:ARG:O	2.11	0.50
1:oo:100:LYS:N	2:qb:197:LYS:HE3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oN:82:ASP:OD1	1:oN:83:GLY:N	2.43	0.50
2:oS:243:TYR:CE1	2:oS:294:LEU:HD21	2.46	0.50
2:oX:75:ILE:CD1	2:oX:213:VAL:HG22	2.42	0.50
1:oZ:58:PHE:CD1	1:oZ:101:VAL:HG21	2.47	0.50
2:ph:243:TYR:O	2:ph:247:ARG:HG2	2.11	0.50
2:pk:219:VAL:HG22	2:pk:219:VAL:O	2.12	0.50
2:pu:225:GLN:N	2:pu:225:GLN:OE1	2.45	0.50
2:pw:196:THR:O	2:pJ:63:ARG:HD3	2.11	0.50
2:pM:263:LEU:HD23	2:pM:296:GLN:NE2	2.27	0.50
2:pX:9:ILE:HG22	2:pX:9:ILE:O	2.11	0.50
2:pY:103:MET:SD	2:pY:103:MET:N	2.85	0.50
3:qd:37:LEU:HD11	3:qd:48:TYR:CD1	2.47	0.50
3:qf:55:GLU:HG2	4:ql:223:ASN:ND2	2.20	0.50
3:qf:68:ALA:HA	4:ql:8:TYR:CZ	2.47	0.50
3:qh:37:LEU:HD11	3:qh:48:TYR:CD1	2.47	0.50
5:qp:140:GLU:O	5:qp:151:LEU:N	2.39	0.50
5:qr:252:LEU:CD2	6:qu:126:GLN:HG2	2.36	0.50
5:qv:42:PRO:HD2	6:qA:133:ASP:OD2	2.11	0.50
5:qx:284:PRO:HB2	5:qz:227:LEU:HD21	1.93	0.50
5:qB:234:ILE:HG23	5:qD:262:ALA:O	2.11	0.50
5:qD:42:PRO:CD	6:qI:133:ASP:OD2	2.60	0.50
6:qE:83:LEU:HD11	6:qE:89:VAL:HG11	1.94	0.50
5:qF:250:THR:HG21	6:qG:125:VAL:HG22	1.94	0.50
5:qJ:140:GLU:O	5:qJ:151:LEU:N	2.39	0.50
2:aj:103:MET:N	2:aj:103:MET:SD	2.85	0.49
2:al:100:GLY:N	2:al:101:PRO:CD	2.75	0.49
1:at:100:LYS:N	2:bQ:197:LYS:HE3	2.27	0.49
2:ay:100:GLY:N	2:ay:101:PRO:CD	2.75	0.49
2:ay:233:GLU:O	2:ay:237:VAL:HG13	2.11	0.49
1:aQ:98:LEU:HD23	2:aY:63:ARG:O	2.11	0.49
1:be:99:LEU:HD21	1:iR:60:ARG:HH21	0.59	0.49
1:be:102:GLU:HB2	1:kj:99:LEU:CD2	2.33	0.49
2:bm:143:VAL:HG22	2:bm:144:TYR:CE2	2.47	0.49
2:bn:62:GLN:HG2	2:jp:197:LYS:HE3	1.91	0.49
2:bn:237:VAL:O	2:bn:237:VAL:HG12	2.12	0.49
1:bs:60:ARG:HH21	1:bT:99:LEU:HD21	0.59	0.49
1:bs:98:LEU:HD23	2:bA:63:ARG:O	2.12	0.49
1:bs:105:THR:CB	2:cb:60:ILE:HG12	2.41	0.49
1:bw:100:LYS:N	2:di:197:LYS:HE3	2.27	0.49
2:bA:60:ILE:HG12	1:eR:105:THR:CB	2.41	0.49
1:bG:98:LEU:HD23	2:bN:63:ARG:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bN:143:VAL:HG22	2:bN:144:TYR:CE2	2.47	0.49
2:bP:100:GLY:N	2:bP:101:PRO:CD	2.75	0.49
2:bQ:144:TYR:HH	2:bQ:254:GLY:H	1.58	0.49
2:bZ:56:LEU:HD12	2:dr:113:HIS:HB2	1.93	0.49
2:ca:61:GLY:CA	1:dm:103:ARG:NH1	2.70	0.49
2:cm:62:GLN:OE1	1:pq:102:GLU:CD	2.53	0.49
2:cp:93:ASP:OD1	2:pt:13:LYS:NZ	2.42	0.49
1:cy:105:THR:HG21	2:nR:60:ILE:CG2	2.39	0.49
2:cQ:81:GLU:OE1	2:cQ:83:THR:HG23	2.11	0.49
2:cQ:192:PHE:HB2	2:cQ:195:MET:HE2	1.95	0.49
2:cQ:235:ASN:ND2	2:cQ:283:LEU:HD11	2.26	0.49
2:cR:60:ILE:HG12	1:po:105:THR:CB	2.41	0.49
2:cT:171:TYR:OH	2:cT:175:THR:OG1	2.12	0.49
2:cT:280:VAL:O	2:cT:289:ASN:ND2	2.44	0.49
1:cW:100:LYS:HB2	1:fi:100:LYS:HE3	1.92	0.49
2:dd:63:ARG:HH12	2:eO:196:THR:HG23	1.76	0.49
2:df:186:GLU:O	2:dG:191:SER:OG	2.08	0.49
2:dh:100:GLY:N	2:dh:101:PRO:CD	2.75	0.49
2:dv:138:ASP:OD1	2:dv:139:THR:N	2.43	0.49
2:dF:64:VAL:H	2:eX:81:GLU:HG2	1.77	0.49
2:dG:221:PHE:CG	2:dG:242:VAL:HG13	2.46	0.49
2:dT:64:VAL:H	2:oS:81:GLU:HG2	1.77	0.49
1:dZ:100:LYS:CE	1:nM:100:LYS:HZ1	2.24	0.49
1:eo:58:PHE:CD1	1:eo:101:VAL:HG21	2.47	0.49
1:eG:102:GLU:CG	1:gK:99:LEU:HD11	2.42	0.49
2:eK:243:TYR:O	2:eK:247:ARG:HG2	2.11	0.49
2:fb:100:GLY:N	2:fb:101:PRO:CD	2.75	0.49
2:fl:205:MET:CE	2:nA:63:ARG:NE	2.74	0.49
2:fl:225:GLN:N	2:fl:225:GLN:OE1	2.45	0.49
2:fm:294:LEU:H	2:fm:294:LEU:HD23	1.77	0.49
2:fq:144:TYR:HH	2:fq:254:GLY:H	1.60	0.49
2:fq:197:LYS:HA	2:nA:62:GLN:NE2	2.27	0.49
1:ft:60:ARG:HE	1:ft:102:GLU:HB2	1.77	0.49
1:ft:98:LEU:HD23	2:fB:63:ARG:O	2.11	0.49
2:fz:113:HIS:HB2	2:mi:56:LEU:HD12	1.93	0.49
2:fA:235:ASN:ND2	2:fA:283:LEU:HD11	2.26	0.49
2:fE:75:ILE:CD1	2:fE:213:VAL:HG22	2.42	0.49
2:fN:225:GLN:N	2:fN:225:GLN:OE1	2.45	0.49
2:fR:263:LEU:HD23	2:fR:296:GLN:NE2	2.27	0.49
2:gd:103:MET:N	2:gd:103:MET:SD	2.85	0.49
2:gq:243:TYR:O	2:gq:247:ARG:HG2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gs:237:VAL:HG12	2:gs:237:VAL:O	2.12	0.49
2:gE:192:PHE:HB2	2:gE:195:MET:HE2	1.94	0.49
2:gF:100:GLY:N	2:gF:101:PRO:CD	2.74	0.49
2:gQ:38:ILE:O	2:gQ:38:ILE:HG13	2.11	0.49
2:gQ:62:GLN:OE1	1:lQ:102:GLU:CD	2.53	0.49
2:gR:63:ARG:HH12	2:im:196:THR:HG23	1.76	0.49
1:ha:103:ARG:NH1	2:kD:61:GLY:CA	2.70	0.49
2:hs:182:LEU:HD11	5:qB:176:ASN:C	2.37	0.49
2:hv:237:VAL:O	2:hv:237:VAL:HG12	2.12	0.49
2:hw:280:VAL:O	2:hw:289:ASN:ND2	2.44	0.49
1:hB:82:ASP:OD1	1:hB:83:GLY:N	2.43	0.49
2:hF:32:LEU:HA	5:qv:178:PRO:HG2	1.94	0.49
2:hI:278:VAL:O	2:hI:278:VAL:HG23	2.10	0.49
2:hX:233:GLU:O	2:hX:237:VAL:HG13	2.11	0.49
2:il:100:GLY:N	2:il:101:PRO:CD	2.75	0.49
2:iA:75:ILE:CD1	2:iA:213:VAL:HG22	2.42	0.49
2:iN:100:GLY:N	2:iN:101:PRO:CD	2.75	0.49
2:iY:294:LEU:H	2:iY:294:LEU:HD23	1.77	0.49
2:jm:192:PHE:HB2	2:jm:195:MET:HE2	1.94	0.49
1:jH:98:LEU:HD23	2:jP:63:ARG:O	2.11	0.49
2:kS:196:THR:O	2:mZ:63:ARG:HD3	2.11	0.49
2:kU:219:VAL:O	2:kU:219:VAL:HG22	2.12	0.49
2:kV:75:ILE:CD1	2:kV:213:VAL:HG22	2.42	0.49
2:lg:103:MET:N	2:lg:103:MET:SD	2.85	0.49
2:lg:143:VAL:HG22	2:lg:144:TYR:CE2	2.47	0.49
1:lm:60:ARG:HE	1:lm:102:GLU:HB2	1.77	0.49
1:lA:98:LEU:HD23	2:lI:63:ARG:O	2.11	0.49
1:lE:99:LEU:HD21	1:ne:102:GLU:OE2	2.06	0.49
2:lI:143:VAL:HG22	2:lI:144:TYR:CE2	2.47	0.49
2:lJ:237:VAL:HG12	2:lJ:237:VAL:O	2.12	0.49
2:lT:38:ILE:HG13	2:lT:38:ILE:O	2.11	0.49
2:lX:278:VAL:HG23	2:lX:278:VAL:O	2.11	0.49
2:mw:205:MET:HE2	2:oE:63:ARG:HE	1.72	0.49
2:mA:233:GLU:O	2:mA:237:VAL:HG13	2.11	0.49
1:mG:102:GLU:CD	2:op:62:GLN:OE1	2.53	0.49
2:mN:237:VAL:O	2:mN:237:VAL:HG12	2.12	0.49
2:mO:233:GLU:O	2:mO:237:VAL:HG13	2.11	0.49
2:nn:243:TYR:O	2:nn:247:ARG:HG2	2.11	0.49
2:nr:75:ILE:CD1	2:nr:213:VAL:HG22	2.42	0.49
2:nz:38:ILE:O	2:nz:38:ILE:HG13	2.11	0.49
1:nI:60:ARG:HE	1:nI:102:GLU:HB2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oq:44:SER:OG	2:oq:75:ILE:O	2.21	0.49
2:ol:171:TYR:OH	2:ol:175:THR:OG1	2.12	0.49
2:ol:219:VAL:HG22	2:ol:219:VAL:O	2.12	0.49
1:om:98:LEU:HD23	2:ou:63:ARG:O	2.11	0.49
2:ow:100:GLY:N	2:ow:101:PRO:CD	2.75	0.49
1:pa:60:ARG:HE	1:pa:102:GLU:HB2	1.77	0.49
2:ph:81:GLU:OE1	2:ph:83:THR:HG23	2.11	0.49
2:pu:81:GLU:HG2	2:pl:64:VAL:H	1.77	0.49
2:pw:143:VAL:HG22	2:pw:144:TYR:CE2	2.47	0.49
1:pA:100:LYS:CD	1:pG:100:LYS:NZ	2.71	0.49
2:pH:38:ILE:O	2:pH:38:ILE:HG13	2.11	0.49
2:pK:103:MET:N	2:pK:103:MET:SD	2.85	0.49
2:pM:219:VAL:O	2:pM:219:VAL:HG22	2.12	0.49
2:pX:294:LEU:H	2:pX:294:LEU:HD23	1.77	0.49
2:qa:219:VAL:HG22	2:qa:219:VAL:O	2.12	0.49
3:qe:67:ARG:N	4:qm:8:TYR:HD2	2.09	0.49
3:qf:12:PRO:HA	3:qf:15:ILE:HB	1.93	0.49
3:qg:62:HIS:HE1	4:qk:224:THR:HB	1.76	0.49
3:qi:63:GLN:O	4:qo:33:SER:O	2.30	0.49
4:qj:238:THR:CG2	4:qk:50:TYR:OH	2.52	0.49
4:qm:238:THR:HG22	4:qn:50:TYR:HH	1.75	0.49
5:qr:42:PRO:CD	6:qw:133:ASP:OD2	2.59	0.49
5:qr:362:ARG:CG	5:qt:115:ASP:HB3	2.39	0.49
6:qs:112:LEU:CD2	6:qu:58:LEU:HD13	0.62	0.49
6:qu:83:LEU:HD11	6:qu:89:VAL:HG11	1.94	0.49
5:qz:238:LYS:HE3	5:qB:268:GLU:HA	1.93	0.49
6:qG:112:LEU:CD2	6:qI:58:LEU:HD12	1.00	0.49
5:qH:284:PRO:HB2	5:qJ:227:LEU:CD2	2.42	0.49
5:qJ:362:ARG:CG	5:qL:115:ASP:HB3	2.39	0.49
2:ah:205:MET:HE2	2:oS:63:ARG:HE	1.72	0.49
2:ai:63:ARG:NH2	2:al:205:MET:SD	2.84	0.49
2:av:192:PHE:HB2	2:av:195:MET:HE2	1.94	0.49
2:av:294:LEU:H	2:av:294:LEU:HD23	1.77	0.49
2:az:75:ILE:CD1	2:az:213:VAL:HG22	2.42	0.49
1:aC:60:ARG:HE	1:aC:102:GLU:HB2	1.77	0.49
1:aQ:60:ARG:HE	1:aQ:102:GLU:HB2	1.77	0.49
1:aS:102:GLU:CD	2:iI:62:GLN:OE1	2.53	0.49
1:aT:100:LYS:HE3	1:pn:100:LYS:HB2	1.92	0.49
2:aV:38:ILE:O	2:aV:38:ILE:HG13	2.11	0.49
2:aW:56:LEU:HD12	2:iJ:113:HIS:HB2	1.93	0.49
2:bj:62:GLN:OE1	1:dn:102:GLU:HG2	2.02	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bk:81:GLU:HG2	2:dr:64:VAL:H	1.77	0.49
2:bk:113:HIS:HB2	2:dr:56:LEU:HD12	1.93	0.49
2:bo:219:VAL:O	2:bo:219:VAL:HG22	2.12	0.49
1:bv:100:LYS:HE3	1:dy:100:LYS:HB2	1.92	0.49
2:bx:43:ALA:O	2:bx:44:SER:OG	2.20	0.49
2:bz:224:TRP:HZ2	2:bz:242:VAL:HG11	1.75	0.49
2:bz:243:TYR:O	2:bz:247:ARG:HG2	2.11	0.49
2:bA:103:MET:N	2:bA:103:MET:SD	2.85	0.49
2:bA:196:THR:O	2:hU:63:ARG:HD3	2.11	0.49
2:bC:219:VAL:O	2:bC:219:VAL:HG22	2.12	0.49
2:bD:185:GLN:O	2:bD:205:MET:N	2.43	0.49
1:bS:58:PHE:CD1	1:bS:101:VAL:HG21	2.47	0.49
2:bZ:64:VAL:H	2:dr:81:GLU:HG2	1.77	0.49
2:cc:62:GLN:HE21	2:hX:197:LYS:HZ1	1.58	0.49
2:cn:56:LEU:HD12	2:iv:113:HIS:HB2	1.93	0.49
2:cp:100:GLY:N	2:cp:101:PRO:CD	2.74	0.49
1:cu:99:LEU:HD11	1:nL:102:GLU:CG	2.42	0.49
1:cw:103:ARG:HG3	2:cQ:61:GLY:HA3	1.93	0.49
2:cR:196:THR:O	2:eY:63:ARG:HD3	2.11	0.49
1:dz:98:LEU:HD23	2:dH:63:ARG:O	2.11	0.49
2:dE:38:ILE:HG13	2:dE:38:ILE:O	2.11	0.49
1:dN:99:LEU:HD22	1:pC:60:ARG:NE	2.12	0.49
2:dU:192:PHE:HB2	2:dU:195:MET:HE2	1.95	0.49
2:ei:224:TRP:HZ2	2:ei:242:VAL:HG11	1.75	0.49
2:ej:143:VAL:HG22	2:ej:144:TYR:CE2	2.47	0.49
1:ep:105:THR:CB	2:pi:60:ILE:HG12	2.41	0.49
2:ev:184:TYR:HH	2:ev:204:PHE:HD1	1.59	0.49
2:eK:294:LEU:H	2:eK:294:LEU:HD23	1.77	0.49
2:eO:75:ILE:CD1	2:eO:213:VAL:HG22	2.42	0.49
2:eZ:143:VAL:HG22	2:eZ:144:TYR:CE2	2.47	0.49
2:fk:38:ILE:O	2:fk:38:ILE:HG13	2.11	0.49
2:fl:177:ARG:NH1	2:fl:213:VAL:HG21	2.28	0.49
1:fu:62:THR:OG1	1:fu:100:LYS:O	2.27	0.49
2:fN:62:GLN:NE2	2:lZ:197:LYS:HA	2.27	0.49
2:fO:243:TYR:O	2:fO:247:ARG:HG2	2.11	0.49
2:fP:143:VAL:HG22	2:fP:144:TYR:CE2	2.47	0.49
2:fS:75:ILE:CD1	2:fS:213:VAL:HG22	2.42	0.49
2:gt:192:PHE:CZ	2:hV:196:THR:HG21	2.42	0.49
2:gC:38:ILE:O	2:gC:38:ILE:HG13	2.11	0.49
1:gM:103:ARG:HG3	2:lV:61:GLY:HA3	1.93	0.49
2:gS:9:ILE:HG22	2:gS:9:ILE:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gV:219:VAL:HG22	2:gV:219:VAL:O	2.12	0.49
2:he:62:GLN:OE1	1:ky:102:GLU:CD	2.53	0.49
2:hg:243:TYR:O	2:hg:247:ARG:HG2	2.11	0.49
2:hG:243:TYR:O	2:hG:247:ARG:HG2	2.11	0.49
2:hJ:171:TYR:OH	2:hJ:175:THR:OG1	2.12	0.49
2:hU:63:ARG:NH2	2:hX:205:MET:SD	2.84	0.49
2:il:219:VAL:O	2:il:219:VAL:HG22	2.12	0.49
2:iv:62:GLN:NE2	2:jS:197:LYS:HA	2.27	0.49
2:iv:64:VAL:H	2:jN:81:GLU:HG2	1.77	0.49
2:ix:143:VAL:HG22	2:ix:144:TYR:CE2	2.47	0.49
1:iD:60:ARG:HE	1:iD:102:GLU:HB2	1.77	0.49
2:iL:143:VAL:HG22	2:iL:144:TYR:CE2	2.47	0.49
2:jC:209:TYR:OH	2:jK:93:ASP:OD2	2.22	0.49
2:jM:221:PHE:CG	2:jM:242:VAL:HG13	2.46	0.49
2:jA:224:TRP:HZ2	2:jA:242:VAL:HG11	1.75	0.49
2:jA:235:ASN:ND2	2:jA:283:LEU:HD11	2.26	0.49
2:jM:38:ILE:O	2:jM:38:ILE:HG13	2.11	0.49
2:jO:63:ARG:NH2	2:jR:205:MET:SD	2.84	0.49
2:jQ:278:VAL:O	2:jQ:278:VAL:HG23	2.10	0.49
1:jV:98:LEU:HD23	2:kd:63:ARG:O	2.11	0.49
2:kd:143:VAL:HG22	2:kd:144:TYR:CE2	2.47	0.49
2:ke:237:VAL:O	2:ke:237:VAL:HG12	2.12	0.49
2:kq:143:VAL:HG22	2:kq:144:TYR:CE2	2.47	0.49
2:ks:138:ASP:OD1	2:ks:139:THR:N	2.43	0.49
2:ks:263:LEU:HD23	2:ks:296:GLN:NE2	2.27	0.49
1:kv:58:PHE:CD1	1:kv:101:VAL:HG21	2.47	0.49
1:kw:60:ARG:HE	1:kw:102:GLU:HB2	1.77	0.49
1:kx:82:ASP:OD1	1:kx:83:GLY:N	2.43	0.49
2:kH:197:LYS:HE3	1:kO:100:LYS:N	2.27	0.49
2:kR:294:LEU:HD23	2:kR:294:LEU:H	1.77	0.49
2:kU:263:LEU:HD23	2:kU:296:GLN:NE2	2.27	0.49
2:kU:280:VAL:O	2:kU:289:ASN:ND2	2.44	0.49
2:le:62:GLN:NE2	2:mP:197:LYS:HA	2.27	0.49
2:li:263:LEU:HD23	2:li:296:GLN:NE2	2.27	0.49
1:lm:60:ARG:HH21	1:pQ:99:LEU:HD21	0.59	0.49
1:lC:100:LYS:H	2:mY:197:LYS:HE2	0.68	0.49
2:lW:143:VAL:HG22	2:lW:144:TYR:CE2	2.47	0.49
2:ml:237:VAL:HG12	2:ml:237:VAL:O	2.12	0.49
1:mo:102:GLU:OE2	1:mu:99:LEU:HD21	2.06	0.49
2:mA:186:GLU:N	2:mA:186:GLU:OE1	2.44	0.49
1:mD:58:PHE:CD1	1:mD:101:VAL:HG21	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mO:192:PHE:CZ	2:os:196:THR:HG21	2.42	0.49
2:mZ:192:PHE:HB2	2:mZ:195:MET:HE2	1.94	0.49
1:nk:100:LYS:N	2:oJ:197:LYS:HE3	2.27	0.49
2:nm:63:ARG:HH12	2:oJ:196:THR:HG23	1.76	0.49
2:nn:193:THR:HG23	2:nn:194:SER:N	2.28	0.49
1:nH:58:PHE:CD1	1:nH:101:VAL:HG21	2.47	0.49
2:nP:81:GLU:O	2:nR:57:ARG:N	2.39	0.49
2:nP:281:GLN:N	2:nP:281:GLN:OE1	2.44	0.49
1:nU:102:GLU:OE2	1:oa:99:LEU:HD21	2.06	0.49
2:ob:4:ILE:HG23	2:ob:5:THR:HG23	1.93	0.49
2:oc:225:GLN:N	2:oc:225:GLN:OE1	2.45	0.49
2:od:235:ASN:ND2	2:od:283:LEU:HD11	2.26	0.49
2:oe:143:VAL:HG22	2:oe:144:TYR:CE2	2.47	0.49
2:of:237:VAL:O	2:of:237:VAL:HG12	2.12	0.49
2:op:4:ILE:HG23	2:op:5:THR:HG23	1.93	0.49
2:oq:56:LEU:HD12	2:pW:113:HIS:HB2	1.93	0.49
2:ou:219:VAL:HG22	2:ou:219:VAL:O	2.12	0.49
2:oG:103:MET:N	2:oG:103:MET:SD	2.85	0.49
1:oM:60:ARG:HE	1:oM:102:GLU:HB2	1.77	0.49
2:oT:294:LEU:H	2:oT:294:LEU:HD23	1.77	0.49
2:ph:63:ARG:NH2	2:pk:205:MET:SD	2.84	0.49
2:pl:36:THR:O	2:pl:175:THR:OG1	2.18	0.49
2:pt:150:THR:OG1	2:pt:220:GLY:O	2.18	0.49
2:pv:9:ILE:O	2:pv:9:ILE:HG22	2.11	0.49
2:pY:143:VAL:HG22	2:pY:144:TYR:CE2	2.47	0.49
2:qb:75:ILE:CD1	2:qb:213:VAL:HG22	2.42	0.49
3:qe:25:LEU:HD21	6:qy:82:VAL:HG23	1.94	0.49
3:qe:61:ASP:N	4:qm:33:SER:OG	2.44	0.49
3:qi:37:LEU:HD11	3:qi:48:TYR:CD1	2.47	0.49
5:qp:362:ARG:CG	5:qr:115:ASP:HB3	2.39	0.49
5:qr:250:THR:HG21	6:qs:125:VAL:HG22	1.94	0.49
6:qw:112:LEU:CD2	6:qy:58:LEU:HD13	0.62	0.49
6:qy:83:LEU:HD11	6:qy:89:VAL:HG11	1.94	0.49
5:qz:42:PRO:CD	6:qE:133:ASP:OD2	2.60	0.49
6:qA:83:LEU:HD11	6:qA:89:VAL:HG11	1.94	0.49
5:qB:42:PRO:CD	6:qG:133:ASP:OD2	2.60	0.49
5:qD:207:ARG:NE	5:qF:69:GLU:OE2	2.43	0.49
5:qH:250:THR:HG21	6:qI:125:VAL:HG22	1.94	0.49
2:am:197:LYS:HA	2:oS:62:GLN:NE2	2.27	0.49
2:au:4:ILE:HG23	2:au:5:THR:HG23	1.93	0.49
2:aI:64:VAL:H	2:kb:81:GLU:HG2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aI:225:GLN:N	2:aI:225:GLN:OE1	2.45	0.49
2:aJ:61:GLY:HA3	1:jW:103:ARG:HG3	1.93	0.49
2:aJ:192:PHE:HB2	2:aJ:195:MET:HE2	1.94	0.49
2:aK:143:VAL:HG22	2:aK:144:TYR:CE2	2.47	0.49
1:aP:58:PHE:CD1	1:aP:101:VAL:HG21	2.47	0.49
2:aX:63:ARG:HD3	2:iL:196:THR:O	2.11	0.49
2:bo:263:LEU:HD23	2:bo:296:GLN:NE2	2.27	0.49
2:by:280:VAL:O	2:by:289:ASN:ND2	2.41	0.49
2:bN:103:MET:N	2:bN:103:MET:SD	2.85	0.49
2:bP:219:VAL:O	2:bP:219:VAL:HG22	2.12	0.49
2:bY:150:THR:OG1	2:bY:220:GLY:O	2.18	0.49
2:cp:50:LEU:HD11	2:cq:98:VAL:HG12	1.92	0.49
2:cr:197:LYS:HZ1	2:lv:62:GLN:HE21	1.59	0.49
2:de:63:ARG:HD3	2:eL:196:THR:O	2.11	0.49
2:dg:237:VAL:HG12	2:dg:237:VAL:O	2.12	0.49
2:dh:263:LEU:HD23	2:dh:296:GLN:NE2	2.27	0.49
1:dl:60:ARG:HE	1:dl:102:GLU:HB2	1.77	0.49
2:dG:81:GLU:OE1	2:dG:83:THR:HG23	2.11	0.49
2:dV:103:MET:N	2:dV:103:MET:SD	2.85	0.49
2:dY:75:ILE:CD1	2:dY:213:VAL:HG22	2.42	0.49
2:dY:197:LYS:HE3	1:nM:100:LYS:N	2.27	0.49
1:ea:58:PHE:CD1	1:ea:101:VAL:HG21	2.47	0.49
1:ef:100:LYS:N	2:nF:197:LYS:HE3	2.27	0.49
2:ek:62:GLN:HE21	2:mm:197:LYS:HZ1	1.60	0.49
2:ev:81:GLU:HG2	2:gD:64:VAL:H	1.77	0.49
2:ew:294:LEU:H	2:ew:294:LEU:HD23	1.77	0.49
2:eA:197:LYS:HA	2:gD:62:GLN:NE2	2.27	0.49
1:eD:102:GLU:OE1	1:ff:99:LEU:CA	2.28	0.49
2:eJ:225:GLN:OE1	2:eJ:225:GLN:N	2.45	0.49
2:eL:143:VAL:HG22	2:eL:144:TYR:CE2	2.47	0.49
2:eZ:100:GLY:N	2:eZ:101:PRO:CD	2.74	0.49
2:fn:103:MET:N	2:fn:103:MET:SD	2.85	0.49
2:fM:38:ILE:O	2:fM:38:ILE:HG13	2.11	0.49
2:fO:81:GLU:O	2:fQ:57:ARG:N	2.39	0.49
2:fO:235:ASN:ND2	2:fO:283:LEU:HD11	2.26	0.49
1:fW:103:ARG:HG3	2:ii:61:GLY:HA3	1.93	0.49
2:gb:177:ARG:NH1	2:gb:213:VAL:HG21	2.28	0.49
2:gb:280:VAL:O	2:gb:289:ASN:ND2	2.41	0.49
2:gc:192:PHE:HB2	2:gc:195:MET:HE2	1.94	0.49
2:gf:219:VAL:HG22	2:gf:219:VAL:O	2.12	0.49
2:gp:117:LEU:HD21	2:gp:211:TYR:HA	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gr:100:GLY:N	2:gr:101:PRO:CD	2.74	0.49
2:gE:235:ASN:ND2	2:gE:283:LEU:HD11	2.26	0.49
2:gH:100:GLY:N	2:gH:101:PRO:CD	2.75	0.49
2:gH:233:GLU:O	2:gH:237:VAL:HG13	2.11	0.49
2:gH:263:LEU:HD23	2:gH:296:GLN:NE2	2.27	0.49
2:gI:75:ILE:CD1	2:gI:213:VAL:HG22	2.42	0.49
2:gR:141:HIS:CD2	2:gR:150:THR:HG1	2.30	0.49
2:gU:237:VAL:O	2:gU:237:VAL:HG12	2.12	0.49
2:gV:280:VAL:O	2:gV:289:ASN:ND2	2.44	0.49
1:hb:102:GLU:CD	2:lF:62:GLN:OE1	2.53	0.49
2:ht:281:GLN:OE1	2:ht:281:GLN:N	2.44	0.49
2:hu:100:GLY:N	2:hu:101:PRO:CD	2.74	0.49
2:hu:143:VAL:HG22	2:hu:144:TYR:CE2	2.47	0.49
2:hH:143:VAL:HG22	2:hH:144:TYR:CE2	2.47	0.49
2:hJ:100:GLY:N	2:hJ:101:PRO:CD	2.75	0.49
2:hJ:219:VAL:O	2:hJ:219:VAL:HG22	2.12	0.49
2:hV:100:GLY:N	2:hV:101:PRO:CD	2.74	0.49
2:hV:179:LEU:HD22	2:hV:209:TYR:HD2	1.78	0.49
1:io:58:PHE:CD1	1:io:101:VAL:HG21	2.47	0.49
2:iz:192:PHE:CZ	2:jP:196:THR:HG21	2.42	0.49
2:iN:219:VAL:HG22	2:iN:219:VAL:O	2.12	0.49
2:iX:113:HIS:HB2	2:jl:56:LEU:HD12	1.93	0.49
1:jR:100:LYS:CD	1:lq:100:LYS:NZ	2.71	0.49
1:jw:100:LYS:HE3	1:lz:100:LYS:HB2	1.92	0.49
2:jy:38:ILE:O	2:jy:38:ILE:HG13	2.11	0.49
2:jz:113:HIS:HB2	2:pW:56:LEU:HD12	1.93	0.49
2:jB:179:LEU:HD22	2:jB:209:TYR:HD2	1.78	0.49
2:jD:192:PHE:CZ	2:lg:196:THR:HG21	2.42	0.49
1:jG:58:PHE:CD1	1:jG:101:VAL:HG21	2.47	0.49
2:kc:81:GLU:OE1	2:kc:83:THR:HG23	2.11	0.49
2:kc:193:THR:HG23	2:kc:194:SER:N	2.28	0.49
2:kt:75:ILE:CD1	2:kt:213:VAL:HG22	2.42	0.49
2:kt:111:GLY:N	5:qD:178:PRO:HG3	2.13	0.49
2:kG:263:LEU:HD23	2:kG:296:GLN:NE2	2.27	0.49
1:kL:82:ASP:OD1	1:kL:83:GLY:N	2.43	0.49
1:lz:58:PHE:CD1	1:lz:101:VAL:HG21	2.47	0.49
2:lG:62:GLN:NE2	2:nd:197:LYS:HA	2.27	0.49
2:lH:294:LEU:HD23	2:lH:294:LEU:H	1.77	0.49
2:lL:36:THR:O	2:lL:175:THR:OG1	2.18	0.49
2:lU:225:GLN:OE1	2:lU:225:GLN:N	2.45	0.49
2:mi:141:HIS:CD2	2:mi:150:THR:HG1	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mr:103:ARG:HG3	2:oF:61:GLY:HA3	1.93	0.49
2:mK:64:VAL:H	2:oq:81:GLU:HG2	1.77	0.49
1:mS:98:LEU:HD23	2:na:63:ARG:O	2.11	0.49
2:na:100:GLY:N	2:na:101:PRO:CD	2.74	0.49
1:nu:60:ARG:HE	1:nu:102:GLU:HB2	1.77	0.49
2:nN:38:ILE:O	2:nN:38:ILE:HG13	2.11	0.49
2:nR:237:VAL:O	2:nR:237:VAL:HG12	2.12	0.49
2:og:219:VAL:HG22	2:og:219:VAL:O	2.12	0.49
1:oj:58:PHE:CD1	1:oj:101:VAL:HG21	2.47	0.49
2:or:193:THR:HG23	2:or:194:SER:N	2.28	0.49
2:oR:4:ILE:HG23	2:oR:5:THR:HG23	1.93	0.49
2:oT:192:PHE:HB2	2:oT:195:MET:HE2	1.94	0.49
2:oT:281:GLN:N	2:oT:281:GLN:OE1	2.44	0.49
1:pa:98:LEU:HD23	2:pi:63:ARG:O	2.11	0.49
2:pJ:192:PHE:HB2	2:pJ:195:MET:HE2	1.94	0.49
2:pJ:193:THR:HG23	2:pJ:194:SER:N	2.28	0.49
2:pJ:294:LEU:HD23	2:pJ:294:LEU:H	1.77	0.49
3:qe:64:GLY:O	4:ql:219:ILE:HG22	2.12	0.49
3:qf:141:LEU:HD23	3:qf:143:PHE:HE2	1.73	0.49
3:qi:12:PRO:HA	3:qi:15:ILE:HB	1.93	0.49
3:qi:66:GLN:O	4:qo:10:GLN:CD	2.55	0.49
5:qx:250:THR:HG21	6:qy:125:VAL:HG22	1.94	0.49
1:ac:55:GLU:O	1:ac:105:THR:HG22	2.13	0.49
2:au:170:TRP:HZ2	5:qJ:176:ASN:OD1	1.87	0.49
2:aK:179:LEU:HD22	2:aK:209:TYR:HD2	1.78	0.49
2:aL:237:VAL:O	2:aL:237:VAL:HG12	2.12	0.49
2:aM:219:VAL:HG22	2:aM:219:VAL:O	2.12	0.49
1:aP:100:LYS:HB2	1:pr:100:LYS:HE3	1.92	0.49
2:aX:224:TRP:HZ2	2:aX:242:VAL:HG11	1.75	0.49
2:bb:197:LYS:HA	2:bk:62:GLN:NE2	2.27	0.49
2:by:64:VAL:H	2:dd:81:GLU:HG2	1.77	0.49
2:bz:61:GLY:HA3	1:cY:103:ARG:HG3	1.93	0.49
2:bB:60:ILE:CG2	1:dC:105:THR:HG21	2.39	0.49
2:bB:237:VAL:O	2:bB:237:VAL:HG12	2.12	0.49
1:bF:58:PHE:CD1	1:bF:101:VAL:HG21	2.47	0.49
2:bL:181:PRO:HG3	5:qr:56:ASN:OD1	2.12	0.49
2:bM:81:GLU:OE1	2:bM:83:THR:HG23	2.11	0.49
2:bM:243:TYR:O	2:bM:247:ARG:HG2	2.11	0.49
2:bZ:243:TYR:CE1	2:bZ:294:LEU:HD21	2.46	0.49
2:ca:192:PHE:HB2	2:ca:195:MET:HE2	1.94	0.49
2:cd:263:LEU:HD23	2:cd:296:GLN:NE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ci:103:ARG:HG3	2:pv:61:GLY:HA3	1.93	0.49
2:cp:179:LEU:HD22	2:cp:209:TYR:HD2	1.78	0.49
2:cr:100:GLY:N	2:cr:101:PRO:CD	2.75	0.49
2:cB:62:GLN:NE2	2:pl:197:LYS:HA	2.27	0.49
2:cB:81:GLU:HG2	2:cP:64:VAL:H	1.77	0.49
2:cB:113:HIS:HB2	2:cP:56:LEU:HD12	1.93	0.49
1:cJ:98:LEU:HD23	2:cR:63:ARG:O	2.11	0.49
2:cS:62:GLN:HG2	2:pM:197:LYS:HE3	1.91	0.49
2:cT:233:GLU:O	2:cT:237:VAL:HG13	2.11	0.49
1:cX:60:ARG:HH21	1:dz:99:LEU:HD21	0.59	0.49
2:df:179:LEU:HD22	2:df:209:TYR:HD2	1.78	0.49
1:dl:60:ARG:HH21	1:hN:99:LEU:HD21	0.59	0.49
2:ds:86:VAL:O	2:ds:202:GLN:N	2.46	0.49
2:ds:235:ASN:ND2	2:ds:283:LEU:HD11	2.26	0.49
1:dy:58:PHE:CD1	1:dy:101:VAL:HG21	2.47	0.49
2:dF:63:ARG:HH12	2:fc:196:THR:HG23	1.76	0.49
2:dF:81:GLU:HG2	2:pg:64:VAL:H	1.77	0.49
2:dI:278:VAL:HG23	2:dI:278:VAL:O	2.11	0.49
2:dJ:280:VAL:O	2:dJ:289:ASN:ND2	2.44	0.49
2:dK:196:THR:HG23	2:pg:63:ARG:HH12	1.76	0.49
2:dU:193:THR:HG23	2:dU:194:SER:N	2.28	0.49
1:ec:55:GLU:O	1:ec:105:THR:HG22	2.13	0.49
2:eh:62:GLN:NE2	2:nF:197:LYS:HA	2.27	0.49
1:es:102:GLU:CG	1:nV:99:LEU:HD11	2.42	0.49
2:ev:113:HIS:HB2	2:gD:56:LEU:HD12	1.93	0.49
2:ex:143:VAL:HG22	2:ex:144:TYR:CE2	2.47	0.49
1:eD:60:ARG:HE	1:eD:102:GLU:HB2	1.77	0.49
2:eJ:64:VAL:H	2:gp:81:GLU:HG2	1.77	0.49
2:eN:100:GLY:N	2:eN:101:PRO:CD	2.75	0.49
1:eQ:58:PHE:CD1	1:eQ:101:VAL:HG21	2.47	0.49
1:eU:100:LYS:HE3	1:iC:100:LYS:HB2	1.92	0.49
2:eX:177:ARG:NH1	2:eX:213:VAL:HG21	2.28	0.49
2:eY:81:GLU:OE1	2:eY:83:THR:HG23	2.11	0.49
2:eY:224:TRP:HZ2	2:eY:242:VAL:HG11	1.75	0.49
2:fb:219:VAL:HG22	2:fb:219:VAL:O	2.12	0.49
2:fq:75:ILE:CD1	2:fq:213:VAL:HG22	2.42	0.49
2:fA:63:ARG:HD3	2:no:196:THR:O	2.11	0.49
2:fr:233:GLU:O	2:fr:237:VAL:HG13	2.11	0.49
2:gd:179:LEU:HD22	2:gd:209:TYR:HD2	1.78	0.49
2:gp:62:GLN:NE2	2:hY:197:LYS:HA	2.27	0.49
2:gp:63:ARG:HE	2:hT:205:MET:HE2	1.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gq:294:LEU:HD23	2:gq:294:LEU:H	1.77	0.49
2:gr:143:VAL:HG22	2:gr:144:TYR:CE2	2.47	0.49
2:gr:179:LEU:HD22	2:gr:209:TYR:HD2	1.78	0.49
2:gt:263:LEU:HD23	2:gt:296:GLN:NE2	2.27	0.49
2:gE:294:LEU:HD23	2:gE:294:LEU:H	1.77	0.49
1:gL:98:LEU:HD23	2:gT:63:ARG:O	2.11	0.49
2:gR:64:VAL:H	2:ih:81:GLU:HG2	1.77	0.49
2:gS:86:VAL:O	2:gS:202:GLN:N	2.46	0.49
2:gS:193:THR:HG23	2:gS:194:SER:N	2.28	0.49
1:ha:62:THR:OG1	1:ha:100:LYS:O	2.27	0.49
2:hf:177:ARG:NH1	2:hf:213:VAL:HG21	2.28	0.49
2:ht:63:ARG:HD3	2:kq:196:THR:O	2.11	0.49
1:hD:102:GLU:CG	1:kJ:99:LEU:HD11	2.42	0.49
2:hK:75:ILE:CD1	2:hK:213:VAL:HG22	2.42	0.49
2:hV:103:MET:N	2:hV:103:MET:SD	2.85	0.49
2:ih:44:SER:OG	2:ih:75:ILE:O	2.21	0.49
2:ii:281:GLN:N	2:ii:281:GLN:OE1	2.44	0.49
2:ii:294:LEU:H	2:ii:294:LEU:HD23	1.77	0.49
1:it:100:LYS:N	2:jS:197:LYS:HE3	2.27	0.49
2:iv:225:GLN:N	2:iv:225:GLN:OE1	2.45	0.49
2:iw:81:GLU:OE1	2:iw:83:THR:HG23	2.11	0.49
2:iw:192:PHE:HB2	2:iw:195:MET:HE2	1.94	0.49
2:iz:100:GLY:N	2:iz:101:PRO:CD	2.75	0.49
2:iJ:177:ARG:NH1	2:iJ:213:VAL:HG21	2.28	0.49
2:iK:86:VAL:O	2:iK:202:GLN:N	2.46	0.49
2:ja:237:VAL:O	2:ja:237:VAL:HG12	2.12	0.49
1:jf:60:ARG:HE	1:jf:102:GLU:HB2	1.77	0.49
2:jz:62:GLN:NE2	2:lj:197:LYS:HA	2.27	0.49
2:jz:63:ARG:HH12	2:lj:196:THR:HG23	1.76	0.49
2:jz:177:ARG:NH1	2:jz:213:VAL:HG21	2.28	0.49
2:jA:193:THR:HG23	2:jA:194:SER:N	2.28	0.49
2:jP:179:LEU:HD22	2:jP:209:TYR:HD2	1.78	0.49
2:kd:179:LEU:HD22	2:kd:209:TYR:HD2	1.78	0.49
2:kp:63:ARG:NH2	2:ks:205:MET:SD	2.84	0.49
2:kG:280:VAL:O	2:kG:289:ASN:ND2	2.44	0.49
1:kL:62:THR:OG1	1:kL:100:LYS:O	2.27	0.49
2:lf:86:VAL:O	2:lf:202:GLN:N	2.46	0.49
2:lu:143:VAL:HG22	2:lu:144:TYR:CE2	2.47	0.49
2:lf:43:ALA:O	2:lf:44:SER:OG	2.20	0.49
2:IH:81:GLU:OE1	2:IH:83:THR:HG23	2.11	0.49
2:IH:193:THR:HG23	2:IH:194:SER:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IW:103:MET:SD	2:IW:103:MET:N	2.85	0.49
2:mx:192:PHE:HB2	2:mx:195:MET:HE2	1.94	0.49
2:my:103:MET:N	2:my:103:MET:SD	2.85	0.49
2:mB:197:LYS:HE3	1:oC:100:LYS:N	2.27	0.49
2:mK:62:GLN:NE2	2:ov:197:LYS:HA	2.27	0.49
2:mK:225:GLN:OE1	2:mK:225:GLN:N	2.45	0.49
2:mL:81:GLU:O	2:mN:57:ARG:N	2.39	0.49
2:mL:193:THR:HG23	2:mL:194:SER:N	2.28	0.49
2:mO:100:GLY:N	2:mO:101:PRO:CD	2.75	0.49
2:mP:75:ILE:CD1	2:mP:213:VAL:HG22	2.42	0.49
2:mZ:9:ILE:HG22	2:mZ:9:ILE:O	2.11	0.49
2:mZ:294:LEU:H	2:mZ:294:LEU:HD23	1.77	0.49
2:nc:280:VAL:O	2:nc:289:ASN:ND2	2.44	0.49
2:nm:56:LEU:HD12	2:oE:113:HIS:HB2	1.93	0.49
2:nm:225:GLN:OE1	2:nm:225:GLN:N	2.45	0.49
2:nn:63:ARG:HD3	2:oG:196:THR:O	2.11	0.49
2:nA:177:ARG:NH1	2:nA:213:VAL:HG21	2.28	0.49
2:nA:225:GLN:OE1	2:nA:225:GLN:N	2.45	0.49
2:nC:179:LEU:HD22	2:nC:209:TYR:HD2	1.78	0.49
2:nD:237:VAL:O	2:nD:237:VAL:HG12	2.12	0.49
2:nO:282:ARG:HH11	2:oc:282:ARG:NH2	1.93	0.49
2:nP:192:PHE:HB2	2:nP:195:MET:HE2	1.94	0.49
2:nQ:179:LEU:HD22	2:nQ:209:TYR:HD2	1.78	0.49
2:nT:197:LYS:HA	2:oc:62:GLN:NE2	2.27	0.49
2:oh:75:ILE:CD1	2:oh:213:VAL:HG22	2.42	0.49
2:or:63:ARG:NH2	2:ou:205:MET:SD	2.84	0.49
2:ot:237:VAL:O	2:ot:237:VAL:HG12	2.12	0.49
2:oF:235:ASN:ND2	2:oF:283:LEU:HD11	2.26	0.49
2:pt:62:GLN:OE1	1:pE:102:GLU:HG2	2.02	0.49
2:pK:143:VAL:HG22	2:pK:144:TYR:CE2	2.47	0.49
2:pN:75:ILE:CD1	2:pN:213:VAL:HG22	2.42	0.49
2:pW:225:GLN:OE1	2:pW:225:GLN:N	2.45	0.49
2:pX:86:VAL:O	2:pX:202:GLN:N	2.46	0.49
2:pX:281:GLN:OE1	2:pX:281:GLN:N	2.44	0.49
2:qa:263:LEU:HD23	2:qa:296:GLN:NE2	2.27	0.49
3:qe:37:LEU:HD11	3:qe:48:TYR:CD1	2.47	0.49
3:qf:63:GLN:NE2	4:qk:221:ASP:C	2.04	0.49
3:qg:37:LEU:HD11	3:qg:48:TYR:CD1	2.47	0.49
3:qg:55:GLU:OE1	4:qk:223:ASN:HB3	2.11	0.49
3:qh:68:ALA:HB2	4:qj:8:TYR:CE2	2.47	0.49
4:ql:188:ARG:NE	4:ql:204:GLU:OE1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:qn:211:ASP:N	4:qn:231:SER:O	2.45	0.49
5:qp:284:PRO:HB2	5:qr:227:LEU:CD2	2.42	0.49
5:qD:284:PRO:HB2	5:qF:227:LEU:CD2	2.42	0.49
5:qH:229:ILE:HD13	5:qJ:232:LEU:CD1	2.39	0.49
6:qI:112:LEU:CD2	6:qK:58:LEU:HD12	1.00	0.49
2:al:219:VAL:HG22	2:al:219:VAL:O	2.12	0.49
1:ap:60:ARG:HH21	1:dl:99:LEU:HD21	0.59	0.49
2:az:197:LYS:HE3	1:kn:100:LYS:N	2.27	0.49
2:aI:197:LYS:HE2	1:iT:100:LYS:H	0.68	0.49
2:aJ:63:ARG:NH2	2:aM:205:MET:SD	2.84	0.49
1:aR:62:THR:OG1	1:aR:100:LYS:O	2.27	0.49
2:aW:62:GLN:NE2	2:iO:197:LYS:HA	2.27	0.49
2:aX:81:GLU:O	2:aZ:57:ARG:N	2.39	0.49
2:bo:197:LYS:HE3	2:jo:62:GLN:HG2	1.91	0.49
2:bZ:62:GLN:NE2	2:dw:197:LYS:HA	2.27	0.49
2:bZ:177:ARG:NH1	2:bZ:213:VAL:HG21	2.28	0.49
2:bZ:225:GLN:OE1	2:bZ:225:GLN:N	2.45	0.49
2:ca:103:MET:N	2:ca:103:MET:SD	2.86	0.49
2:cm:143:VAL:HG12	2:cm:145:PRO:HD2	1.95	0.49
2:cn:63:ARG:HH12	2:iA:196:THR:HG23	1.76	0.49
2:co:63:ARG:HD3	2:ix:196:THR:O	2.11	0.49
2:cp:278:VAL:HG11	2:cp:295:VAL:O	2.13	0.49
2:cr:263:LEU:HD23	2:cr:296:GLN:NE2	2.27	0.49
2:cA:143:VAL:HG12	2:cA:145:PRO:HD2	1.95	0.49
2:cB:64:VAL:H	2:pg:81:GLU:HG2	1.77	0.49
2:cP:177:ARG:NH1	2:cP:213:VAL:HG21	2.28	0.49
2:cQ:281:GLN:OE1	2:cQ:281:GLN:N	2.44	0.49
2:cR:143:VAL:HG22	2:cR:144:TYR:CE2	2.47	0.49
1:cZ:102:GLU:HG2	2:eI:62:GLN:OE1	2.02	0.49
2:df:103:MET:SD	2:df:103:MET:N	2.85	0.49
2:dh:192:PHE:CZ	2:eL:196:THR:HG21	2.42	0.49
2:dr:177:ARG:NH1	2:dr:213:VAL:HG21	2.28	0.49
2:dt:143:VAL:HG22	2:dt:144:TYR:CE2	2.47	0.49
2:dv:219:VAL:HG22	2:dv:219:VAL:O	2.12	0.49
1:dz:82:ASP:OD1	1:dz:83:GLY:N	2.41	0.49
1:dD:100:LYS:HZ1	1:fd:100:LYS:HD3	1.75	0.49
2:dF:225:GLN:OE1	2:dF:225:GLN:N	2.45	0.49
2:dH:179:LEU:HD22	2:dH:209:TYR:HD2	1.78	0.49
2:dT:81:GLU:HG2	2:nO:64:VAL:H	1.77	0.49
2:dT:113:HIS:HB2	2:nO:56:LEU:HD12	1.93	0.49
2:dW:62:GLN:HG2	2:jR:197:LYS:HE3	1.91	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ec:82:ASP:OD1	1:ec:83:GLY:N	2.43	0.49
2:ei:86:VAL:O	2:ei:202:GLN:N	2.46	0.49
2:ek:237:VAL:O	2:ek:237:VAL:HG12	2.12	0.49
2:eK:63:ARG:NH2	2:eN:205:MET:SD	2.84	0.49
1:ff:98:LEU:HD23	2:fn:63:ARG:O	2.11	0.49
2:fz:63:ARG:HH12	2:nr:196:THR:HG23	1.76	0.49
2:fC:107:GLY:CA	2:fC:184:TYR:HE1	2.22	0.49
2:fN:56:LEU:HD12	2:lU:113:HIS:HB2	1.93	0.49
2:fN:63:ARG:HE	2:lU:205:MET:HE2	1.72	0.49
2:gc:281:GLN:OE1	2:gc:281:GLN:N	2.44	0.49
2:gf:263:LEU:HD23	2:gf:296:GLN:NE2	2.27	0.49
2:gg:75:ILE:CD1	2:gg:213:VAL:HG22	2.42	0.49
1:gl:102:GLU:CD	2:hS:62:GLN:OE1	2.53	0.49
2:go:143:VAL:HG12	2:go:145:PRO:HD2	1.95	0.49
2:gp:56:LEU:HD12	2:hT:113:HIS:HB2	1.93	0.49
2:gu:75:ILE:CD1	2:gu:213:VAL:HG22	2.42	0.49
2:gD:177:ARG:NH1	2:gD:213:VAL:HG21	2.28	0.49
2:gE:103:MET:N	2:gE:103:MET:SD	2.86	0.49
2:gS:294:LEU:H	2:gS:294:LEU:HD23	1.77	0.49
2:gT:103:MET:SD	2:gT:103:MET:N	2.85	0.49
2:gW:75:ILE:CD1	2:gW:213:VAL:HG22	2.42	0.49
1:gZ:98:LEU:HD23	2:hh:63:ARG:O	2.11	0.49
1:hd:100:LYS:N	2:lL:197:LYS:HE3	2.27	0.49
1:ho:103:ARG:NH1	2:hG:61:GLY:CA	2.70	0.49
2:hG:294:LEU:HD23	2:hG:294:LEU:H	1.77	0.49
2:hK:184:TYR:CD2	5:qt:178:PRO:HA	2.48	0.49
2:hU:193:THR:HG23	2:hU:194:SER:N	2.28	0.49
2:ij:143:VAL:HG22	2:ij:144:TYR:CE2	2.47	0.49
2:ik:278:VAL:HG23	2:ik:278:VAL:O	2.11	0.49
1:iq:58:PHE:CD1	1:iq:101:VAL:HG21	2.48	0.49
2:ix:179:LEU:HD22	2:ix:209:TYR:HD2	1.78	0.49
2:iJ:225:GLN:N	2:iJ:225:GLN:OE1	2.45	0.49
2:iK:235:ASN:ND2	2:iK:283:LEU:HD11	2.26	0.49
2:iL:103:MET:N	2:iL:103:MET:SD	2.85	0.49
1:iQ:58:PHE:CD1	1:iQ:101:VAL:HG21	2.47	0.49
2:jc:197:LYS:HA	2:jl:62:GLN:NE2	2.27	0.49
1:jg:82:ASP:OD1	1:jg:83:GLY:N	2.43	0.49
2:jl:177:ARG:NH1	2:jl:213:VAL:HG21	2.28	0.49
1:jt:98:LEU:HD23	2:jB:63:ARG:O	2.11	0.49
2:jz:193:THR:CG2	2:pV:193:THR:CG2	2.91	0.49
2:jB:196:THR:O	2:pX:63:ARG:HD3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jP:143:VAL:HG22	2:jP:144:TYR:CE2	2.47	0.49
1:jZ:100:LYS:N	2:lx:197:LYS:HE3	2.27	0.49
2:kC:177:ARG:NH1	2:kC:213:VAL:HG21	2.28	0.49
2:kD:193:THR:HG23	2:kD:194:SER:N	2.28	0.49
2:kE:143:VAL:HG22	2:kE:144:TYR:CE2	2.47	0.49
1:kK:98:LEU:HD23	2:kS:63:ARG:O	2.11	0.49
2:kR:192:PHE:HB2	2:kR:195:MET:HE2	1.94	0.49
2:kR:193:THR:HG23	2:kR:194:SER:N	2.28	0.49
2:li:233:GLU:O	2:li:237:VAL:HG13	2.11	0.49
1:lm:98:LEU:HD23	2:lu:63:ARG:O	2.11	0.49
1:ln:58:PHE:CD1	1:ln:101:VAL:HG21	2.48	0.49
2:lw:186:GLU:N	2:lw:186:GLU:OE1	2.44	0.49
2:lG:56:LEU:HD12	2:mY:113:HIS:HB2	1.93	0.49
2:lK:233:GLU:O	2:lK:237:VAL:HG13	2.11	0.49
2:mi:225:GLN:OE1	2:mi:225:GLN:N	2.45	0.49
2:mm:233:GLU:O	2:mm:237:VAL:HG13	2.11	0.49
2:my:179:LEU:HD22	2:my:209:TYR:HD2	1.78	0.49
1:mC:100:LYS:HD3	1:oC:100:LYS:HZ3	1.76	0.49
2:mK:56:LEU:HD12	2:oq:113:HIS:HB2	1.93	0.49
2:mZ:81:GLU:O	2:nb:57:ARG:N	2.39	0.49
2:nm:64:VAL:H	2:oE:81:GLU:HG2	1.77	0.49
1:nv:82:ASP:OD1	1:nv:83:GLY:N	2.43	0.49
2:oe:179:LEU:HD22	2:oe:209:TYR:HD2	1.78	0.49
1:ol:82:ASP:OD1	1:ol:83:GLY:N	2.43	0.49
2:or:294:LEU:H	2:or:294:LEU:HD23	1.77	0.49
2:ou:192:PHE:CZ	2:pY:196:THR:HG21	2.42	0.49
1:oy:60:ARG:HE	1:oy:102:GLU:HB2	1.77	0.49
2:oF:193:THR:HG23	2:oF:194:SER:N	2.28	0.49
2:oF:294:LEU:H	2:oF:294:LEU:HD23	1.77	0.49
2:oJ:185:GLN:O	2:oJ:205:MET:N	2.43	0.49
2:oR:38:ILE:O	2:oR:38:ILE:HG13	2.11	0.49
2:oR:150:THR:OG1	2:oR:220:GLY:O	2.18	0.49
2:oS:225:GLN:N	2:oS:225:GLN:OE1	2.45	0.49
2:oU:103:MET:N	2:oU:103:MET:SD	2.85	0.49
2:pg:177:ARG:NH1	2:pg:213:VAL:HG21	2.28	0.49
2:pz:196:THR:HG23	2:pI:63:ARG:HH12	1.76	0.49
1:pR:58:PHE:CD1	1:pR:101:VAL:HG21	2.48	0.49
2:pX:103:MET:SD	2:pX:103:MET:N	2.86	0.49
3:qe:84:TYR:OH	6:qw:20:GLU:CG	2.61	0.49
3:qf:64:GLY:CA	4:qk:219:ILE:CG2	2.89	0.49
3:qg:64:GLY:C	4:qk:10:GLN:HE22	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qi:25:LEU:HD21	6:qq:82:VAL:HG23	1.94	0.49
4:qj:116:PHE:CD1	4:qk:202:ILE:HD11	2.48	0.49
4:qj:142:ALA:O	4:qj:143:ASP:OD1	2.29	0.49
4:qk:238:THR:CG2	4:ql:50:TYR:OH	2.52	0.49
4:qm:18:ILE:N	4:qm:184:THR:O	2.43	0.49
4:qo:142:ALA:O	4:qo:143:ASP:OD1	2.29	0.49
5:qr:392:LEU:CD1	5:qt:400:TYR:HH	2.23	0.49
5:qB:284:PRO:HB2	5:qD:227:LEU:CD2	2.42	0.49
5:qF:284:PRO:HB2	5:qH:227:LEU:CD2	2.42	0.49
2:ah:56:LEU:HD12	2:oc:113:HIS:HB2	1.93	0.49
2:ah:63:ARG:HH12	2:oh:196:THR:HG23	1.76	0.49
1:aD:58:PHE:CD1	1:aD:101:VAL:HG21	2.48	0.49
2:aJ:86:VAL:O	2:aJ:202:GLN:N	2.46	0.49
2:aJ:193:THR:HG23	2:aJ:194:SER:N	2.28	0.49
1:aQ:102:GLU:HB2	1:jf:99:LEU:CD2	2.33	0.49
2:aX:281:GLN:N	2:aX:281:GLN:OE1	2.44	0.49
1:bf:55:GLU:O	1:bf:105:THR:HG22	2.13	0.49
1:bt:58:PHE:CD1	1:bt:101:VAL:HG21	2.48	0.49
2:by:81:GLU:HG2	2:hT:64:VAL:H	1.77	0.49
2:bz:294:LEU:H	2:bz:294:LEU:HD23	1.77	0.49
2:bZ:113:HIS:HB2	2:iJ:56:LEU:HD12	1.93	0.49
2:ce:185:GLN:O	2:ce:205:MET:N	2.43	0.49
2:co:103:MET:N	2:co:103:MET:SD	2.86	0.49
2:cq:237:VAL:HG12	2:cq:237:VAL:O	2.12	0.49
1:ct:102:GLU:OE2	1:ps:99:LEU:HD21	2.06	0.49
1:cw:58:PHE:CD1	1:cw:101:VAL:HG21	2.48	0.49
2:cC:103:MET:N	2:cC:103:MET:SD	2.86	0.49
2:cG:197:LYS:HE3	1:cN:100:LYS:N	2.27	0.49
2:cG:226:LEU:HD23	2:cG:227:ALA:N	2.28	0.49
1:cK:58:PHE:CD1	1:cK:101:VAL:HG21	2.48	0.49
2:cP:280:VAL:O	2:cP:289:ASN:ND2	2.41	0.49
2:cQ:193:THR:HG23	2:cQ:194:SER:N	2.28	0.49
2:de:193:THR:HG23	2:de:194:SER:N	2.28	0.49
2:dE:143:VAL:HG12	2:dE:145:PRO:HD2	1.95	0.49
2:dF:282:ARG:NH2	2:eX:282:ARG:HH11	1.93	0.49
1:dO:58:PHE:CD1	1:dO:101:VAL:HG21	2.48	0.49
2:dU:63:ARG:HD3	2:oU:196:THR:O	2.12	0.49
1:eb:60:ARG:HE	1:eb:102:GLU:HB2	1.77	0.49
1:ec:58:PHE:CD1	1:ec:101:VAL:HG21	2.48	0.49
1:ec:103:ARG:HG3	2:ew:61:GLY:HA3	1.93	0.49
1:ed:102:GLU:CD	2:nz:62:GLN:OE1	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eh:177:ARG:NH1	2:eh:213:VAL:HG21	2.28	0.49
2:ei:193:THR:HG23	2:ei:194:SER:N	2.28	0.49
1:eE:58:PHE:CD1	1:eE:101:VAL:HG21	2.48	0.49
2:eI:143:VAL:HG12	2:eI:145:PRO:HD2	1.95	0.49
2:eY:86:VAL:O	2:eY:202:GLN:N	2.46	0.49
2:eY:294:LEU:H	2:eY:294:LEU:HD23	1.77	0.49
1:fg:58:PHE:CD1	1:fg:101:VAL:HG21	2.48	0.49
2:fk:143:VAL:HG12	2:fk:145:PRO:HD2	1.95	0.49
2:fm:86:VAL:O	2:fm:202:GLN:N	2.46	0.49
2:fm:103:MET:N	2:fm:103:MET:SD	2.86	0.49
2:fp:219:VAL:HG22	2:fp:219:VAL:O	2.12	0.49
2:fA:192:PHE:HB2	2:fA:195:MET:HE2	1.94	0.49
2:fA:294:LEU:H	2:fA:294:LEU:HD23	1.77	0.49
2:fN:177:ARG:NH1	2:fN:213:VAL:HG21	2.28	0.49
2:fN:193:THR:CG2	2:ga:193:THR:CG2	2.91	0.49
1:fV:60:ARG:HE	1:fV:102:GLU:HB2	1.77	0.49
2:gq:281:GLN:N	2:gq:281:GLN:OE1	2.44	0.49
1:gw:58:PHE:CD1	1:gw:101:VAL:HG21	2.47	0.49
2:gE:193:THR:HG23	2:gE:194:SER:N	2.28	0.49
1:gY:58:PHE:CD1	1:gY:101:VAL:HG21	2.47	0.49
1:gY:99:LEU:HD11	1:oB:102:GLU:CG	2.42	0.49
2:he:38:ILE:O	2:he:38:ILE:HG13	2.11	0.49
2:hg:294:LEU:HD23	2:hg:294:LEU:H	1.77	0.49
2:hh:103:MET:N	2:hh:103:MET:SD	2.85	0.49
1:hm:58:PHE:CD1	1:hm:101:VAL:HG21	2.47	0.49
1:hB:55:GLU:O	1:hB:105:THR:HG22	2.13	0.49
2:hU:192:PHE:HB2	2:hU:195:MET:HE2	1.94	0.49
2:hV:278:VAL:HG11	2:hV:295:VAL:O	2.13	0.49
1:id:58:PHE:CG	1:id:101:VAL:HG21	2.48	0.49
2:il:263:LEU:HD23	2:il:296:GLN:NE2	2.27	0.49
2:iL:100:GLY:N	2:iL:101:PRO:CD	2.74	0.49
2:iL:179:LEU:HD22	2:iL:209:TYR:HD2	1.78	0.49
1:jf:98:LEU:HD23	2:jn:63:ARG:O	2.11	0.49
1:jg:58:PHE:CD1	1:jg:101:VAL:HG21	2.48	0.49
2:jl:2:ALA:N	1:ly:94:GLU:HB3	2.28	0.49
2:jn:143:VAL:HG22	2:jn:144:TYR:CE2	2.47	0.49
2:jn:278:VAL:HG11	2:jn:295:VAL:O	2.13	0.49
2:jE:226:LEU:HD23	2:jE:227:ALA:N	2.28	0.49
1:jH:60:ARG:HE	1:jH:102:GLU:HB2	1.77	0.49
1:jI:55:GLU:O	1:jI:105:THR:HG22	2.13	0.49
2:jM:43:ALA:O	2:jM:44:SER:OG	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jW:58:PHE:CD1	1:jW:101:VAL:HG21	2.48	0.49
1:jZ:100:LYS:HZ1	1:ly:100:LYS:CE	2.25	0.49
2:kc:103:MET:N	2:kc:103:MET:SD	2.86	0.49
2:kd:103:MET:N	2:kd:103:MET:SD	2.85	0.49
2:kf:263:LEU:HD23	2:kf:296:GLN:NE2	2.27	0.49
1:kj:98:LEU:HD23	2:kq:63:ARG:O	2.11	0.49
2:ko:4:ILE:HG23	2:ko:5:THR:HG23	1.93	0.49
1:kx:55:GLU:O	1:kx:105:THR:HG22	2.13	0.49
2:kE:103:MET:N	2:kE:103:MET:SD	2.85	0.49
1:kK:60:ARG:HE	1:kK:102:GLU:HB2	1.77	0.49
2:kP:62:GLN:OE1	1:mU:102:GLU:HG2	2.02	0.49
2:kS:143:VAL:HG22	2:kS:144:TYR:CE2	2.47	0.49
1:kY:98:LEU:HD23	2:lg:63:ARG:O	2.11	0.49
2:lf:103:MET:N	2:lf:103:MET:SD	2.86	0.49
2:lt:193:THR:HG23	2:lt:194:SER:N	2.28	0.49
2:lt:294:LEU:HD23	2:lt:294:LEU:H	1.77	0.49
2:lu:278:VAL:HG11	2:lu:295:VAL:O	2.13	0.49
2:ll:179:LEU:HD22	2:ll:209:TYR:HD2	1.78	0.49
2:IY:100:GLY:N	2:IY:101:PRO:CD	2.75	0.49
1:md:55:GLU:O	1:md:105:THR:HG22	2.13	0.49
1:md:62:THR:OG1	1:md:100:LYS:O	2.27	0.49
2:mi:193:THR:CG2	2:mv:193:THR:CG2	2.91	0.49
2:mj:103:MET:N	2:mj:103:MET:SD	2.86	0.49
2:mj:192:PHE:HB2	2:mj:195:MET:HE2	1.94	0.49
2:mk:143:VAL:HG22	2:mk:144:TYR:CE2	2.47	0.49
2:mk:196:THR:HG21	2:mA:192:PHE:CZ	2.42	0.49
1:mp:58:PHE:CD1	1:mp:101:VAL:HG21	2.47	0.49
2:mw:81:GLU:HG2	2:oE:64:VAL:H	1.77	0.49
2:my:278:VAL:HG11	2:my:295:VAL:O	2.13	0.49
2:mA:100:GLY:N	2:mA:101:PRO:CD	2.75	0.49
2:mB:75:ILE:CD1	2:mB:213:VAL:HG22	2.42	0.49
2:mJ:193:THR:CG2	2:oq:193:THR:CG2	2.91	0.49
2:mL:294:LEU:H	2:mL:294:LEU:HD23	1.77	0.49
2:mM:143:VAL:HG22	2:mM:144:TYR:CE2	2.47	0.49
2:mY:44:SER:OG	2:mY:75:ILE:O	2.21	0.49
2:nc:219:VAL:O	2:nc:219:VAL:HG22	2.12	0.49
1:nh:58:PHE:CD1	1:nh:101:VAL:HG21	2.48	0.49
2:nn:281:GLN:OE1	2:nn:281:GLN:N	2.44	0.49
2:no:143:VAL:HG22	2:no:144:TYR:CE2	2.47	0.49
2:nB:103:MET:SD	2:nB:103:MET:N	2.86	0.49
2:nS:263:LEU:HD23	2:nS:296:GLN:NE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nT:197:LYS:HE3	1:oa:100:LYS:N	2.27	0.49
2:og:263:LEU:HD23	2:og:296:GLN:NE2	2.27	0.49
1:om:58:PHE:CG	1:om:101:VAL:HG21	2.48	0.49
2:os:143:VAL:HG22	2:os:144:TYR:CE2	2.47	0.49
2:oU:278:VAL:HG11	2:oU:295:VAL:O	2.13	0.49
2:oX:144:TYR:HH	2:oX:254:GLY:H	1.58	0.49
2:ph:193:THR:HG23	2:ph:194:SER:N	2.28	0.49
2:pv:294:LEU:HD23	2:pv:294:LEU:H	1.77	0.49
2:pw:103:MET:N	2:pw:103:MET:SD	2.85	0.49
1:pD:55:GLU:O	1:pD:105:THR:HG22	2.13	0.49
1:pE:58:PHE:CG	1:pE:101:VAL:HG21	2.48	0.49
2:pI:225:GLN:OE1	2:pI:225:GLN:N	2.45	0.49
2:pW:280:VAL:O	2:pW:289:ASN:ND2	2.41	0.49
5:qp:96:ARG:CD	5:qr:114:LEU:CD2	2.81	0.49
5:qt:284:PRO:HB2	5:qv:227:LEU:CD2	2.42	0.49
6:qw:133:ASP:OD1	6:qw:134:TRP:N	2.45	0.49
1:aa:58:PHE:CD1	1:aa:101:VAL:HG21	2.47	0.49
1:ae:100:LYS:HE3	1:fs:100:LYS:HB2	1.92	0.49
2:ah:81:GLU:HG2	2:oS:64:VAL:H	1.77	0.49
2:ah:193:THR:CG2	2:oR:193:THR:CG2	2.91	0.49
2:ak:62:GLN:HE21	2:fD:197:LYS:HZ1	1.59	0.49
2:au:143:VAL:HG12	2:au:145:PRO:HD2	1.95	0.49
2:aw:103:MET:N	2:aw:103:MET:SD	2.85	0.49
2:aw:278:VAL:HG11	2:aw:295:VAL:O	2.13	0.49
2:az:88:ARG:HD2	5:qH:47:ARG:HD3	1.94	0.49
2:aH:143:VAL:HG12	2:aH:145:PRO:HD2	1.95	0.49
2:aI:177:ARG:NH1	2:aI:213:VAL:HG21	2.28	0.49
2:aN:197:LYS:HA	2:iX:62:GLN:NE2	2.27	0.49
2:aX:81:GLU:OE1	2:aX:83:THR:HG23	2.11	0.49
2:ba:263:LEU:HD23	2:ba:296:GLN:NE2	2.27	0.49
1:be:60:ARG:HE	1:be:102:GLU:HB2	1.77	0.49
2:bl:193:THR:HG23	2:bl:194:SER:N	2.28	0.49
2:bz:9:ILE:HG22	2:bz:9:ILE:O	2.11	0.49
2:bz:86:VAL:O	2:bz:202:GLN:N	2.46	0.49
1:bK:99:LEU:HD23	1:hL:102:GLU:CG	2.18	0.49
2:bM:63:ARG:NH2	2:bP:205:MET:SD	2.84	0.49
2:bM:192:PHE:HB2	2:bM:195:MET:HE2	1.94	0.49
2:bN:278:VAL:HG11	2:bN:295:VAL:O	2.13	0.49
2:bO:62:GLN:HE21	2:IY:197:LYS:HZ1	1.60	0.49
1:bU:58:PHE:CD1	1:bU:101:VAL:HG21	2.48	0.49
2:cb:179:LEU:HD22	2:cb:209:TYR:HD2	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ci:103:ARG:NH1	2:pv:61:GLY:CA	2.70	0.49
1:ck:105:THR:HG21	2:lv:60:ILE:CG2	2.39	0.49
2:cn:81:GLU:HG2	2:pu:64:VAL:H	1.77	0.49
2:cs:197:LYS:HE3	1:ps:100:LYS:N	2.27	0.49
1:ct:94:GLU:HB3	2:iv:2:ALA:N	2.28	0.49
2:cD:278:VAL:HG11	2:cD:295:VAL:O	2.13	0.49
2:cQ:9:ILE:HG22	2:cQ:9:ILE:O	2.11	0.49
2:cT:197:LYS:HZ1	2:pL:62:GLN:HE21	1.60	0.49
2:de:103:MET:N	2:de:103:MET:SD	2.86	0.49
1:dD:100:LYS:N	2:fc:197:LYS:HE3	2.27	0.49
2:dF:177:ARG:NH1	2:dF:213:VAL:HG21	2.28	0.49
2:dJ:100:GLY:N	2:dJ:101:PRO:CD	2.75	0.49
1:dP:58:PHE:CG	1:dP:101:VAL:HG21	2.48	0.49
2:eg:4:ILE:HG23	2:eg:5:THR:HG23	1.93	0.49
2:eh:56:LEU:HD12	2:nA:113:HIS:HB2	1.93	0.49
2:ev:177:ARG:NH1	2:ev:213:VAL:HG21	2.28	0.49
2:ew:63:ARG:NH2	2:ez:205:MET:SD	2.84	0.49
2:eI:193:THR:CG2	2:gp:193:THR:CG2	2.91	0.49
2:eK:86:VAL:O	2:eK:202:GLN:N	2.46	0.49
2:eK:193:THR:HG23	2:eK:194:SER:N	2.28	0.49
1:eP:94:GLU:HB3	2:gp:2:ALA:N	2.28	0.49
2:eY:193:THR:HG23	2:eY:194:SER:N	2.28	0.49
2:eZ:278:VAL:HG11	2:eZ:295:VAL:O	2.13	0.49
1:fh:58:PHE:CG	1:fh:101:VAL:HG21	2.48	0.49
1:fh:103:ARG:HD2	2:gC:61:GLY:CA	2.40	0.49
2:fn:278:VAL:HG11	2:fn:295:VAL:O	2.13	0.49
1:fr:102:GLU:OE2	1:ny:99:LEU:HG	1.74	0.49
1:fs:58:PHE:CD1	1:fs:101:VAL:HG21	2.47	0.49
2:fD:219:VAL:HG22	2:fD:219:VAL:O	2.12	0.49
1:fl:55:GLU:O	1:fl:105:THR:HG22	2.13	0.49
2:fO:86:VAL:O	2:fO:202:GLN:N	2.46	0.49
1:fX:58:PHE:CG	1:fX:101:VAL:HG21	2.48	0.49
2:ga:143:VAL:HG12	2:ga:145:PRO:HD2	1.95	0.49
1:gh:102:GLU:OE2	1:if:99:LEU:HD21	2.06	0.49
1:gl:58:PHE:CG	1:gl:101:VAL:HG21	2.48	0.49
1:gv:94:GLU:HB3	2:hT:2:ALA:N	2.28	0.49
1:gy:82:ASP:OD1	1:gy:83:GLY:N	2.43	0.49
2:gH:219:VAL:O	2:gH:219:VAL:HG22	2.12	0.49
2:gR:56:LEU:HD12	2:ih:113:HIS:HB2	1.93	0.49
2:gR:177:ARG:NH1	2:gR:213:VAL:HG21	2.28	0.49
2:gR:225:GLN:OE1	2:gR:225:GLN:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gV:233:GLU:O	2:gV:237:VAL:HG13	2.11	0.49
1:gZ:99:LEU:HD21	1:mq:60:ARG:HH21	0.59	0.49
2:he:143:VAL:HG12	2:he:145:PRO:HD2	1.95	0.49
2:hf:113:HIS:HB2	2:kC:56:LEU:HD12	1.93	0.49
2:hf:193:THR:CG2	2:kB:193:THR:CG2	2.91	0.49
2:hg:61:GLY:HA3	1:lB:103:ARG:HG3	1.93	0.49
2:hh:179:LEU:HD22	2:hh:209:TYR:HD2	1.78	0.49
1:ho:58:PHE:CD1	1:ho:101:VAL:HG21	2.48	0.49
2:ht:192:PHE:HB2	2:ht:195:MET:HE2	1.94	0.49
2:hw:100:GLY:N	2:hw:101:PRO:CD	2.75	0.49
2:hF:143:VAL:HG12	2:hF:145:PRO:HD2	1.95	0.49
2:hF:184:TYR:HD2	5:qx:31:GLU:HG2	1.77	0.49
2:hH:179:LEU:HD22	2:hH:209:TYR:HD2	1.78	0.49
2:hK:226:LEU:HD23	2:hK:227:ALA:N	2.28	0.49
2:hU:103:MET:SD	2:hU:103:MET:N	2.86	0.49
2:hU:294:LEU:H	2:hU:294:LEU:HD23	1.77	0.49
2:hW:237:VAL:O	2:hW:237:VAL:HG12	2.12	0.49
2:ih:177:ARG:NH1	2:ih:213:VAL:HG21	2.28	0.49
2:ij:100:GLY:N	2:ij:101:PRO:CD	2.74	0.49
2:iw:103:MET:N	2:iw:103:MET:SD	2.86	0.49
2:iw:281:GLN:OE1	2:iw:281:GLN:N	2.44	0.49
2:ix:278:VAL:HG11	2:ix:295:VAL:O	2.13	0.49
2:iK:103:MET:N	2:iK:103:MET:SD	2.86	0.49
2:jp:219:VAL:HG22	2:jp:219:VAL:O	2.12	0.49
2:jy:193:THR:CG2	2:le:193:THR:CG2	2.91	0.49
2:jA:281:GLN:OE1	2:jA:281:GLN:N	2.44	0.49
2:jB:278:VAL:HG11	2:jB:295:VAL:O	2.13	0.49
2:jC:237:VAL:O	2:jC:237:VAL:HG12	2.12	0.49
2:jN:56:LEU:HD12	2:pI:113:HIS:HB2	1.93	0.49
2:jN:64:VAL:H	2:pI:81:GLU:HG2	1.77	0.49
2:jO:103:MET:N	2:jO:103:MET:SD	2.86	0.49
2:jO:294:LEU:H	2:jO:294:LEU:HD23	1.77	0.49
2:jQ:237:VAL:O	2:jQ:237:VAL:HG12	2.12	0.49
1:jW:55:GLU:O	1:jW:105:THR:HG22	2.13	0.49
2:kf:171:TYR:OH	2:kf:175:THR:OG1	2.12	0.49
2:kg:226:LEU:HD23	2:kg:227:ALA:N	2.28	0.49
1:kl:58:PHE:CG	1:kl:101:VAL:HG21	2.48	0.49
2:kt:91:ILE:HG13	5:qD:47:ARG:NE	2.26	0.49
2:kE:278:VAL:HG11	2:kE:295:VAL:O	2.13	0.49
2:kS:103:MET:N	2:kS:103:MET:SD	2.85	0.49
2:kV:197:LYS:HA	2:mY:62:GLN:NE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ld:143:VAL:HG12	2:ld:145:PRO:HD2	1.95	0.49
2:le:177:ARG:NH1	2:le:213:VAL:HG21	2.28	0.49
2:lf:281:GLN:N	2:lf:281:GLN:OE1	2.44	0.49
2:lh:237:VAL:O	2:lh:237:VAL:HG12	2.12	0.49
1:ln:82:ASP:OD1	1:ln:83:GLY:N	2.43	0.49
2:lt:86:VAL:O	2:lt:202:GLN:N	2.46	0.49
2:lv:237:VAL:HG12	2:lv:237:VAL:O	2.12	0.49
2:lF:143:VAL:HG12	2:lF:145:PRO:HD2	1.95	0.49
2:lF:193:THR:CG2	2:mY:193:THR:CG2	2.91	0.49
1:md:103:ARG:NH1	2:mx:61:GLY:CA	2.70	0.49
1:mr:55:GLU:O	1:mr:105:THR:HG22	2.13	0.49
2:mv:143:VAL:HG12	2:mv:145:PRO:HD2	1.95	0.49
2:mx:193:THR:HG23	2:mx:194:SER:N	2.28	0.49
2:mJ:4:ILE:HG23	2:mJ:5:THR:HG23	1.93	0.49
2:mJ:143:VAL:HG12	2:mJ:145:PRO:HD2	1.95	0.49
2:mK:280:VAL:O	2:mK:289:ASN:ND2	2.41	0.49
2:mO:197:LYS:HZ1	2:oV:62:GLN:HE21	1.59	0.49
2:mZ:63:ARG:NH2	2:nc:205:MET:SD	2.84	0.49
2:nn:86:VAL:O	2:nn:202:GLN:N	2.46	0.49
2:no:278:VAL:HG11	2:no:295:VAL:O	2.13	0.49
1:nv:58:PHE:CD1	1:nv:101:VAL:HG21	2.48	0.49
2:nB:193:THR:HG23	2:nB:194:SER:N	2.28	0.49
2:nO:177:ARG:NH1	2:nO:213:VAL:HG21	2.28	0.49
2:nO:280:VAL:O	2:nO:289:ASN:ND2	2.41	0.49
2:nS:219:VAL:HG22	2:nS:219:VAL:O	2.12	0.49
2:nT:226:LEU:HD23	2:nT:227:ALA:N	2.28	0.49
2:oq:62:GLN:NE2	2:qb:197:LYS:HA	2.27	0.49
2:oq:225:GLN:N	2:oq:225:GLN:OE1	2.45	0.49
2:os:179:LEU:HD22	2:os:209:TYR:HD2	1.78	0.49
1:ox:58:PHE:CD1	1:ox:101:VAL:HG21	2.47	0.49
2:oG:100:GLY:N	2:oG:101:PRO:CD	2.74	0.49
2:oG:179:LEU:HD22	2:oG:209:TYR:HD2	1.78	0.49
2:oI:263:LEU:HD23	2:oI:296:GLN:NE2	2.27	0.49
2:oS:280:VAL:O	2:oS:289:ASN:ND2	2.41	0.49
1:pp:82:ASP:OD1	1:pp:83:GLY:N	2.43	0.49
2:pI:177:ARG:NH1	2:pI:213:VAL:HG21	2.28	0.49
2:pM:233:GLU:O	2:pM:237:VAL:HG13	2.11	0.49
1:pS:58:PHE:CG	1:pS:101:VAL:HG21	2.48	0.49
2:pX:192:PHE:HB2	2:pX:195:MET:HE2	1.94	0.49
2:pX:193:THR:HG23	2:pX:194:SER:N	2.28	0.49
3:qf:55:GLU:OE1	4:ql:223:ASN:CB	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qr:96:ARG:CD	5:qt:114:LEU:CD2	2.81	0.49
6:qs:112:LEU:HD23	6:qu:58:LEU:CD1	1.02	0.49
5:qt:234:ILE:HG23	5:qv:262:ALA:O	2.12	0.49
5:qB:250:THR:HG21	6:qC:125:VAL:HG22	1.94	0.49
5:qD:250:THR:O	5:qD:253:ARG:HG2	2.13	0.49
5:qH:42:PRO:CD	6:qM:133:ASP:OD1	2.59	0.49
5:qJ:252:LEU:CD2	6:qM:126:GLN:HG2	2.36	0.49
5:qL:250:THR:HG21	6:qM:125:VAL:HG22	1.94	0.49
2:al:171:TYR:OH	2:al:175:THR:OG1	2.12	0.49
2:al:263:LEU:HD23	2:al:296:GLN:NE2	2.27	0.49
1:aq:58:PHE:CD1	1:aq:101:VAL:HG21	2.48	0.49
2:av:63:ARG:HD3	2:bN:196:THR:O	2.11	0.49
2:aH:38:ILE:O	2:aH:38:ILE:HG13	2.11	0.49
2:aI:63:ARG:HH12	2:kg:196:THR:HG23	1.76	0.49
2:aI:193:THR:CG2	2:iW:193:THR:CG2	2.91	0.49
2:aK:278:VAL:HG11	2:aK:295:VAL:O	2.13	0.49
1:bf:62:THR:OG1	1:bf:100:LYS:O	2.27	0.49
2:bm:103:MET:N	2:bm:103:MET:SD	2.85	0.49
2:bo:280:VAL:O	2:bo:289:ASN:ND2	2.44	0.49
2:bx:143:VAL:HG12	2:bx:145:PRO:HD2	1.95	0.49
2:bx:193:THR:CG2	2:dd:193:THR:CG2	2.91	0.49
2:by:62:GLN:NE2	2:di:197:LYS:HA	2.27	0.49
2:bz:281:GLN:N	2:bz:281:GLN:OE1	2.44	0.49
2:bA:93:ASP:OD1	2:hS:13:LYS:NZ	2.42	0.49
2:bD:75:ILE:CD1	2:bD:213:VAL:HG22	2.42	0.49
2:bD:226:LEU:HD23	2:bD:227:ALA:N	2.28	0.49
2:bL:38:ILE:O	2:bL:38:ILE:HG13	2.11	0.49
2:bL:193:THR:OG1	2:hK:187:ARG:NH2	2.46	0.49
2:bM:294:LEU:HD23	2:bM:294:LEU:H	1.77	0.49
2:bO:237:VAL:HG12	2:bO:237:VAL:O	2.12	0.49
1:bT:60:ARG:NE	1:eR:99:LEU:HD22	2.12	0.49
2:ca:294:LEU:H	2:ca:294:LEU:HD23	1.77	0.49
2:ce:226:LEU:HD23	2:ce:227:ALA:N	2.28	0.49
2:cC:86:VAL:O	2:cC:202:GLN:N	2.46	0.49
2:cF:197:LYS:HZ1	2:nR:62:GLN:HE21	1.61	0.49
2:cF:263:LEU:HD23	2:cF:296:GLN:NE2	2.27	0.49
2:cP:113:HIS:HB2	2:eX:56:LEU:HD12	1.93	0.49
2:cP:225:GLN:OE1	2:cP:225:GLN:N	2.45	0.49
2:cR:278:VAL:HG11	2:cR:295:VAL:O	2.13	0.49
2:cT:263:LEU:HD23	2:cT:296:GLN:NE2	2.27	0.49
1:db:100:LYS:N	2:eO:197:LYS:HE3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dc:143:VAL:HG12	2:dc:145:PRO:HD2	1.95	0.49
2:dc:193:THR:CG2	2:eJ:193:THR:CG2	2.91	0.49
2:dd:62:GLN:NE2	2:eO:197:LYS:HA	2.27	0.49
2:de:61:GLY:HA3	1:eE:103:ARG:HG3	1.93	0.49
2:df:278:VAL:HG11	2:df:295:VAL:O	2.13	0.49
1:dj:94:GLU:HB3	2:eJ:2:ALA:N	2.28	0.49
2:dt:278:VAL:HG11	2:dt:295:VAL:O	2.13	0.49
2:dv:233:GLU:O	2:dv:237:VAL:HG13	2.11	0.49
1:dA:58:PHE:CD1	1:dA:101:VAL:HG21	2.48	0.49
2:dS:4:ILE:HG23	2:dS:5:THR:HG23	1.93	0.49
1:dZ:94:GLU:HB3	2:oS:2:ALA:N	2.28	0.49
2:eg:193:THR:CG2	2:nA:193:THR:CG2	2.91	0.49
2:em:197:LYS:HA	2:ev:62:GLN:NE2	2.27	0.49
1:er:58:PHE:CG	1:er:101:VAL:HG21	2.48	0.49
2:ew:192:PHE:HB2	2:ew:195:MET:HE2	1.94	0.49
1:eE:82:ASP:OD1	1:eE:83:GLY:N	2.43	0.49
2:eK:192:PHE:HB2	2:eK:195:MET:HE2	1.94	0.49
2:eN:233:GLU:O	2:eN:237:VAL:HG13	2.11	0.49
1:eR:98:LEU:HD23	2:eZ:63:ARG:O	2.11	0.49
2:eY:63:ARG:NH2	2:fb:205:MET:SD	2.84	0.49
2:fb:233:GLU:O	2:fb:237:VAL:HG13	2.11	0.49
1:fj:100:LYS:N	2:gI:197:LYS:HE3	2.27	0.49
2:fl:62:GLN:NE2	2:gI:197:LYS:HA	2.27	0.49
2:fm:192:PHE:HB2	2:fm:195:MET:HE2	1.94	0.49
2:fB:179:LEU:HD22	2:fB:209:TYR:HD2	1.78	0.49
2:fN:81:GLU:HG2	2:gb:64:VAL:H	1.77	0.49
2:fO:193:THR:HG23	2:fO:194:SER:N	2.28	0.49
2:fP:179:LEU:HD22	2:fP:209:TYR:HD2	1.78	0.49
2:fS:197:LYS:HE3	1:fZ:100:LYS:N	2.27	0.49
1:fV:102:GLU:OE1	1:nu:99:LEU:CA	2.28	0.49
2:gb:81:GLU:HG2	2:ih:64:VAL:H	1.77	0.49
2:gc:193:THR:HG23	2:gc:194:SER:N	2.28	0.49
2:gq:86:VAL:O	2:gq:202:GLN:N	2.46	0.49
2:gu:226:LEU:HD23	2:gu:227:ALA:N	2.28	0.49
1:gy:58:PHE:CD1	1:gy:101:VAL:HG21	2.48	0.49
2:gE:63:ARG:NH2	2:gH:205:MET:SD	2.84	0.49
1:gM:55:GLU:O	1:gM:105:THR:HG22	2.13	0.49
1:ha:55:GLU:O	1:ha:105:THR:HG22	2.13	0.49
2:ht:103:MET:SD	2:ht:103:MET:N	2.86	0.49
2:hu:196:THR:HG21	2:hJ:192:PHE:CZ	2.42	0.49
2:hw:219:VAL:HG22	2:hw:219:VAL:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hI:62:GLN:HG2	2:kU:197:LYS:HE3	1.91	0.49
1:hP:58:PHE:CG	1:hP:101:VAL:HG21	2.48	0.49
1:ic:58:PHE:CD1	1:ic:101:VAL:HG21	2.48	0.49
1:iq:55:GLU:O	1:iq:105:THR:HG22	2.13	0.49
2:iv:56:LEU:HD12	2:jN:113:HIS:HB2	1.93	0.49
1:iB:94:GLU:HB3	2:jN:2:ALA:N	2.28	0.49
2:iL:278:VAL:HG11	2:iL:295:VAL:O	2.13	0.49
2:iM:107:GLY:CA	2:iM:184:TYR:HE1	2.22	0.49
1:iS:63:VAL:HG23	1:iS:99:LEU:CD1	2.42	0.49
1:iT:58:PHE:CG	1:iT:101:VAL:HG21	2.48	0.49
2:iX:81:GLU:HG2	2:jl:64:VAL:H	1.77	0.49
1:jh:58:PHE:CG	1:jh:101:VAL:HG21	2.48	0.49
2:jl:280:VAL:O	2:jl:289:ASN:ND2	2.41	0.49
2:jm:281:GLN:OE1	2:jm:281:GLN:N	2.44	0.49
1:jt:99:LEU:HD21	1:mS:60:ARG:HH21	0.59	0.49
2:jA:103:MET:N	2:jA:103:MET:SD	2.86	0.49
1:jL:100:LYS:HZ1	1:pO:100:LYS:HD3	1.75	0.49
2:jR:219:VAL:HG22	2:jR:219:VAL:O	2.12	0.49
2:ka:38:ILE:O	2:ka:38:ILE:HG13	2.11	0.49
1:kk:58:PHE:CD1	1:kk:101:VAL:HG21	2.48	0.49
2:ko:31:TYR:CE1	5:qF:176:ASN:O	2.65	0.49
2:kD:103:MET:N	2:kD:103:MET:SD	2.86	0.49
2:kH:226:LEU:HD23	2:kH:227:ALA:N	2.28	0.49
2:kT:107:GLY:CA	2:kT:184:TYR:HE1	2.22	0.49
1:kY:60:ARG:HE	1:kY:102:GLU:HB2	1.77	0.49
1:kY:99:LEU:HD21	1:oy:60:ARG:HH21	0.59	0.49
2:li:219:VAL:HG22	2:li:219:VAL:O	2.12	0.49
1:lk:94:GLU:HB3	2:mK:2:ALA:N	2.28	0.49
2:lG:177:ARG:NH1	2:lG:213:VAL:HG21	2.28	0.49
2:lI:278:VAL:HG11	2:lI:295:VAL:O	2.13	0.49
2:lK:263:LEU:HD23	2:lK:296:GLN:NE2	2.27	0.49
2:lV:103:MET:SD	2:lV:103:MET:N	2.86	0.49
1:mG:58:PHE:CG	1:mG:101:VAL:HG21	2.48	0.49
1:mQ:94:GLU:HB3	2:oq:2:ALA:N	2.28	0.49
1:ng:60:ARG:HE	1:ng:102:GLU:HB2	1.77	0.49
2:nl:193:THR:CG2	2:oe:193:THR:CG2	2.91	0.49
2:nn:103:MET:N	2:nn:103:MET:SD	2.86	0.49
2:nB:86:VAL:O	2:nB:202:GLN:N	2.46	0.49
2:nF:226:LEU:HD23	2:nF:227:ALA:N	2.28	0.49
1:nJ:58:PHE:CD1	1:nJ:101:VAL:HG21	2.48	0.49
2:od:103:MET:N	2:od:103:MET:SD	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oh:226:LEU:HD23	2:oh:227:ALA:N	2.28	0.49
2:ou:233:GLU:O	2:ou:237:VAL:HG13	2.11	0.49
1:oz:55:GLU:O	1:oz:105:THR:HG22	2.13	0.49
2:oU:143:VAL:HG22	2:oU:144:TYR:CE2	2.47	0.49
2:oX:226:LEU:HD23	2:oX:227:ALA:N	2.28	0.49
2:pi:103:MET:N	2:pi:103:MET:SD	2.85	0.49
2:pl:185:GLN:O	2:pl:205:MET:N	2.43	0.49
1:po:98:LEU:HD23	2:pw:63:ARG:O	2.11	0.49
1:pp:55:GLU:O	1:pp:105:THR:HG22	2.13	0.49
1:pD:82:ASP:OD1	1:pD:83:GLY:N	2.43	0.49
2:pV:38:ILE:O	2:pV:38:ILE:HG13	2.11	0.49
4:qj:18:ILE:N	4:qj:184:THR:O	2.43	0.49
4:qo:211:ASP:N	4:qo:231:SER:O	2.45	0.49
5:qx:250:THR:O	5:qx:253:ARG:HG2	2.13	0.49
5:qz:392:LEU:CD1	5:qB:400:TYR:HH	2.23	0.49
6:qE:112:LEU:CD2	6:qG:58:LEU:HD12	1.00	0.49
1:ad:103:ARG:HD2	2:ob:61:GLY:CA	2.40	0.49
2:ag:143:VAL:HG12	2:ag:145:PRO:HD2	1.95	0.49
2:ag:193:THR:OG1	2:oh:187:ARG:NH2	2.46	0.49
2:ai:61:GLY:HA3	1:nX:103:ARG:HG3	1.93	0.49
2:ai:235:ASN:ND2	2:ai:283:LEU:HD11	2.26	0.49
2:aj:278:VAL:HG11	2:aj:295:VAL:O	2.13	0.49
2:av:193:THR:HG23	2:av:194:SER:N	2.28	0.49
2:av:281:GLN:N	2:av:281:GLN:OE1	2.44	0.49
2:aw:143:VAL:HG22	2:aw:144:TYR:CE2	2.47	0.49
2:az:187:ARG:NH2	2:ko:193:THR:OG1	2.46	0.49
2:aI:205:MET:HE2	2:iX:63:ARG:HE	1.72	0.49
2:aJ:103:MET:N	2:aJ:103:MET:SD	2.86	0.49
2:aL:60:ILE:CG2	1:mV:105:THR:HG21	2.39	0.49
2:aY:103:MET:N	2:aY:103:MET:SD	2.85	0.49
2:ba:197:LYS:HZ1	2:px:62:GLN:HE21	1.61	0.49
2:bb:196:THR:HG23	2:bk:63:ARG:HH12	1.76	0.49
1:bg:58:PHE:CG	1:bg:101:VAL:HG21	2.48	0.49
2:bj:38:ILE:O	2:bj:38:ILE:HG13	2.11	0.49
2:bl:63:ARG:NH2	2:bo:205:MET:SD	2.84	0.49
2:bo:233:GLU:O	2:bo:237:VAL:HG13	2.11	0.49
1:bt:55:GLU:O	1:bt:105:THR:HG22	2.13	0.49
1:bI:58:PHE:CG	1:bI:101:VAL:HG21	2.48	0.49
1:bX:100:LYS:N	2:dw:197:LYS:HE3	2.27	0.49
2:bY:93:ASP:OD2	2:dw:209:TYR:OH	2.22	0.49
2:bZ:81:GLU:HG2	2:iJ:64:VAL:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cf:94:GLU:HB3	2:dr:2:ALA:N	2.28	0.49
2:cr:233:GLU:O	2:cr:237:VAL:HG13	2.11	0.49
2:cs:226:LEU:HD23	2:cs:227:ALA:N	2.28	0.49
1:cw:55:GLU:O	1:cw:105:THR:HG22	2.13	0.49
2:cC:63:ARG:NH2	2:cF:205:MET:SD	2.84	0.49
2:cE:237:VAL:HG12	2:cE:237:VAL:O	2.12	0.49
1:cL:58:PHE:CG	1:cL:101:VAL:HG21	2.48	0.49
1:cM:105:THR:HG21	2:pL:60:ILE:CG2	2.39	0.49
2:cO:38:ILE:HG13	2:cO:38:ILE:O	2.11	0.49
2:cS:237:VAL:O	2:cS:237:VAL:HG12	2.12	0.49
1:cY:55:GLU:O	1:cY:105:THR:HG22	2.13	0.49
2:dc:193:THR:OG1	2:eO:187:ARG:NH2	2.46	0.49
2:dq:38:ILE:HG13	2:dq:38:ILE:O	2.11	0.49
1:dA:55:GLU:O	1:dA:105:THR:HG22	2.13	0.49
2:dE:193:THR:OG1	2:fc:187:ARG:NH2	2.46	0.49
2:dK:197:LYS:HA	2:pg:62:GLN:NE2	2.27	0.49
2:dK:197:LYS:HE3	1:pe:100:LYS:N	2.27	0.49
2:dK:226:LEU:HD23	2:dK:227:ALA:N	2.28	0.49
2:dY:226:LEU:HD23	2:dY:227:ALA:N	2.28	0.49
2:el:100:GLY:N	2:el:101:PRO:CD	2.75	0.49
1:eq:82:ASP:OD1	1:eq:83:GLY:N	2.43	0.49
2:ew:103:MET:N	2:ew:103:MET:SD	2.86	0.49
2:eA:187:ARG:NH2	2:gC:193:THR:OG1	2.46	0.49
2:eN:263:LEU:HD23	2:eN:296:GLN:NE2	2.27	0.49
2:eZ:103:MET:N	2:eZ:103:MET:SD	2.85	0.49
1:fj:100:LYS:NZ	1:gJ:100:LYS:CD	2.71	0.49
1:fr:94:GLU:HB3	2:gD:2:ALA:N	2.28	0.49
2:fz:282:ARG:NH2	2:nm:282:ARG:HH11	1.94	0.49
2:fA:103:MET:N	2:fA:103:MET:SD	2.86	0.49
2:fA:193:THR:HG23	2:fA:194:SER:N	2.28	0.49
2:fB:196:THR:O	2:mj:63:ARG:HD3	2.12	0.49
2:fE:187:ARG:NH2	2:mh:193:THR:OG1	2.46	0.49
2:fO:103:MET:N	2:fO:103:MET:SD	2.86	0.49
2:fO:294:LEU:H	2:fO:294:LEU:HD23	1.77	0.49
2:fP:278:VAL:HG11	2:fP:295:VAL:O	2.13	0.49
1:fU:58:PHE:CD1	1:fU:101:VAL:HG21	2.47	0.49
2:gc:103:MET:N	2:gc:103:MET:SD	2.86	0.49
2:gf:233:GLU:O	2:gf:237:VAL:HG13	2.11	0.49
2:gg:197:LYS:HA	2:ih:62:GLN:NE2	2.27	0.49
2:gq:103:MET:N	2:gq:103:MET:SD	2.86	0.49
2:gr:278:VAL:HG11	2:gr:295:VAL:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gI:226:LEU:HD23	2:gI:227:ALA:N	2.28	0.49
1:gL:60:ARG:HE	1:gL:102:GLU:HB2	1.77	0.49
2:gT:196:THR:HG21	2:IY:192:PHE:CZ	2.42	0.49
2:gW:197:LYS:HE3	1:IS:100:LYS:N	2.27	0.49
1:gZ:60:ARG:HE	1:gZ:102:GLU:HB2	1.77	0.49
1:ha:58:PHE:CD1	1:ha:101:VAL:HG21	2.48	0.49
2:hg:86:VAL:O	2:hg:202:GLN:N	2.46	0.49
2:hj:263:LEU:HD23	2:hj:296:GLN:NE2	2.27	0.49
1:hp:58:PHE:CG	1:hp:101:VAL:HG21	2.48	0.49
2:hx:103:MET:HE1	5:qz:31:GLU:CB	2.37	0.49
2:hG:103:MET:N	2:hG:103:MET:SD	2.86	0.49
1:hM:58:PHE:CD1	1:hM:101:VAL:HG21	2.47	0.49
2:hT:280:VAL:O	2:hT:289:ASN:ND2	2.41	0.49
1:ic:55:GLU:O	1:ic:105:THR:HG22	2.13	0.49
2:ii:103:MET:SD	2:ii:103:MET:N	2.86	0.49
2:iu:193:THR:CG2	2:jN:193:THR:CG2	2.91	0.49
2:iw:63:ARG:NH2	2:iz:205:MET:SD	2.84	0.49
1:iE:62:THR:OG1	1:iE:100:LYS:O	2.27	0.49
2:iI:143:VAL:HG12	2:iI:145:PRO:HD2	1.95	0.49
1:iS:58:PHE:CD1	1:iS:101:VAL:HG21	2.48	0.49
2:iW:143:VAL:HG12	2:iW:145:PRO:HD2	1.95	0.49
2:iX:205:MET:CE	2:jl:63:ARG:NE	2.74	0.49
2:iY:53:PHE:O	2:iY:255:ARG:NH2	2.43	0.49
2:jc:144:TYR:HH	2:jc:254:GLY:H	1.61	0.49
2:jk:38:ILE:HG13	2:jk:38:ILE:O	2.11	0.49
2:jl:225:GLN:N	2:jl:225:GLN:OE1	2.45	0.49
2:jp:263:LEU:HD23	2:jp:296:GLN:NE2	2.27	0.49
2:jz:64:VAL:H	2:le:81:GLU:HG2	1.77	0.49
2:jz:81:GLU:HG2	2:pW:64:VAL:H	1.77	0.49
2:jA:192:PHE:HB2	2:jA:195:MET:HE2	1.94	0.49
2:jB:103:MET:N	2:jB:103:MET:SD	2.85	0.49
1:jI:58:PHE:CD1	1:jI:101:VAL:HG21	2.48	0.49
2:ka:193:THR:CG2	2:ls:193:THR:CG2	2.91	0.49
2:ka:193:THR:OG1	2:lx:187:ARG:NH2	2.46	0.49
2:kp:193:THR:HG23	2:kp:194:SER:N	2.28	0.49
2:kq:278:VAL:HG11	2:kq:295:VAL:O	2.13	0.49
2:kr:237:VAL:O	2:kr:237:VAL:HG12	2.12	0.49
2:ks:219:VAL:HG22	2:ks:219:VAL:O	2.12	0.49
2:kt:226:LEU:HD23	2:kt:227:ALA:N	2.28	0.49
2:kB:4:ILE:HG23	2:kB:5:THR:HG23	1.93	0.49
2:kC:2:ALA:N	1:kW:94:GLU:HB3	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kG:117:LEU:HD21	2:kG:211:TYR:HA	1.95	0.49
2:kG:219:VAL:HG22	2:kG:219:VAL:O	2.12	0.49
2:kP:62:GLN:OE1	1:mU:102:GLU:CD	2.53	0.49
2:kQ:81:GLU:HG2	2:mY:64:VAL:H	1.77	0.49
2:kS:179:LEU:HD22	2:kS:209:TYR:HD2	1.78	0.49
2:kV:197:LYS:HE3	1:mW:100:LYS:N	2.27	0.49
1:kZ:58:PHE:CD1	1:kZ:101:VAL:HG21	2.48	0.49
1:lc:99:LEU:HG	1:mQ:102:GLU:OE2	1.74	0.49
2:lf:294:LEU:H	2:lf:294:LEU:HD23	1.77	0.49
2:lr:143:VAL:HG12	2:lr:145:PRO:HD2	1.95	0.49
2:lG:64:VAL:H	2:mY:81:GLU:HG2	1.77	0.49
2:lH:192:PHE:HB2	2:lH:195:MET:HE2	1.95	0.49
2:lK:219:VAL:O	2:lK:219:VAL:HG22	2.12	0.49
2:IV:63:ARG:NH2	2:ly:205:MET:SD	2.84	0.49
2:IV:81:GLU:O	2:IX:57:ARG:N	2.39	0.49
2:mj:294:LEU:HD23	2:mj:294:LEU:H	1.77	0.49
2:mn:226:LEU:HD23	2:mn:227:ALA:N	2.28	0.49
2:mw:193:THR:CG2	2:oD:193:THR:CG2	2.91	0.49
1:mF:82:ASP:OD1	1:mF:83:GLY:N	2.43	0.49
2:mP:226:LEU:HD23	2:mP:227:ALA:N	2.28	0.49
2:mY:177:ARG:NH1	2:mY:213:VAL:HG21	2.28	0.49
2:nc:100:GLY:N	2:nc:101:PRO:CD	2.75	0.49
1:ns:94:GLU:HB3	2:oe:2:ALA:N	2.28	0.49
2:nO:2:ALA:N	1:oi:94:GLU:HB3	2.28	0.49
2:nS:117:LEU:HD21	2:nS:211:TYR:HA	1.95	0.49
2:ov:226:LEU:HD23	2:ov:227:ALA:N	2.28	0.49
2:oG:278:VAL:HG11	2:oG:295:VAL:O	2.13	0.49
1:oN:58:PHE:CD1	1:oN:101:VAL:HG21	2.48	0.49
2:ow:280:VAL:O	2:ow:289:ASN:ND2	2.44	0.49
2:ph:103:MET:N	2:ph:103:MET:SD	2.86	0.49
1:pp:58:PHE:CD1	1:pp:101:VAL:HG21	2.48	0.49
2:pu:177:ARG:NH1	2:pu:213:VAL:HG21	2.28	0.49
2:pv:103:MET:N	2:pv:103:MET:SD	2.86	0.49
2:pJ:103:MET:N	2:pJ:103:MET:SD	2.86	0.49
3:qg:141:LEU:HD23	3:qg:143:PHE:HE2	1.73	0.49
4:ql:116:PHE:CD1	4:qm:202:ILE:HD11	2.48	0.49
5:qr:284:PRO:HB2	5:qt:227:LEU:CD2	2.42	0.49
6:qw:83:LEU:HD11	6:qw:89:VAL:HG11	1.94	0.49
5:qJ:236:LEU:HD12	5:qL:264:GLY:O	2.13	0.49
1:aq:62:THR:OG1	1:aq:100:LYS:O	2.27	0.49
1:aB:67:CYS:HA	1:aB:72:CYS:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aG:100:LYS:N	2:kg:197:LYS:HE3	2.27	0.49
1:aO:94:GLU:HB3	2:kb:2:ALA:N	2.28	0.49
2:bb:187:ARG:NH2	2:bj:193:THR:OG1	2.46	0.49
2:bo:197:LYS:HZ1	2:jo:62:GLN:HE21	1.60	0.49
2:bp:226:LEU:HD23	2:bp:227:ALA:N	2.28	0.49
1:bu:58:PHE:CG	1:bu:101:VAL:HG21	2.48	0.49
2:by:193:THR:CG2	2:hS:193:THR:CG2	2.91	0.49
2:bD:197:LYS:HE3	1:hR:100:LYS:N	2.27	0.49
1:bI:103:ARG:HD2	2:hF:61:GLY:CA	2.40	0.49
1:bS:67:CYS:HA	1:bS:72:CYS:HA	1.95	0.49
1:bU:55:GLU:O	1:bU:105:THR:HG22	2.13	0.49
2:bY:193:THR:CG2	2:dr:193:THR:CG2	2.91	0.49
1:cl:100:LYS:N	2:iA:197:LYS:HE3	2.27	0.49
2:cs:187:ARG:NH2	2:pt:193:THR:OG1	2.46	0.49
2:cA:193:THR:CG2	2:pg:193:THR:CG2	2.91	0.49
2:cA:193:THR:OG1	2:pl:187:ARG:NH2	2.46	0.49
1:cK:63:VAL:HG23	1:cK:99:LEU:CD1	2.42	0.49
1:da:100:LYS:HE3	1:fe:100:LYS:HB2	1.92	0.49
2:dd:141:HIS:CD2	2:dd:150:THR:HG1	2.30	0.49
2:dw:226:LEU:HD23	2:dw:227:ALA:N	2.28	0.49
2:dG:103:MET:SD	2:dG:103:MET:N	2.86	0.49
2:dJ:263:LEU:HD23	2:dJ:296:GLN:NE2	2.27	0.49
1:dR:100:LYS:N	2:oX:197:LYS:HE3	2.27	0.49
2:dV:143:VAL:HG22	2:dV:144:TYR:CE2	2.47	0.49
2:dW:237:VAL:O	2:dW:237:VAL:HG12	2.12	0.49
2:dY:197:LYS:HA	2:nO:62:GLN:NE2	2.27	0.49
1:ec:62:THR:OG1	1:ec:100:LYS:O	2.27	0.49
2:eh:64:VAL:H	2:nA:81:GLU:HG2	1.77	0.49
2:eh:81:GLU:HG2	2:ev:64:VAL:H	1.77	0.49
2:el:117:LEU:HD21	2:el:211:TYR:HA	1.95	0.49
1:en:94:GLU:HB3	2:nA:2:ALA:N	2.28	0.49
2:ev:141:HIS:CD2	2:ev:150:THR:HG1	2.28	0.49
2:ew:86:VAL:O	2:ew:202:GLN:N	2.46	0.49
1:eE:55:GLU:O	1:eE:105:THR:HG22	2.13	0.49
2:eK:103:MET:N	2:eK:103:MET:SD	2.86	0.49
2:eZ:179:LEU:HD22	2:eZ:209:TYR:HD2	1.78	0.49
2:fk:193:THR:CG2	2:gD:193:THR:CG2	2.91	0.49
2:fn:179:LEU:HD22	2:fn:209:TYR:HD2	1.78	0.49
1:fG:67:CYS:HA	1:fG:72:CYS:HA	1.95	0.49
1:fI:82:ASP:OD1	1:fI:83:GLY:N	2.43	0.49
2:fS:187:ARG:NH2	2:ga:193:THR:OG1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fW:55:GLU:O	1:fW:105:THR:HG22	2.13	0.49
2:gb:2:ALA:N	1:in:94:GLU:HB3	2.28	0.49
1:gn:99:LEU:HD23	1:hZ:102:GLU:CG	2.19	0.49
1:gZ:58:PHE:CG	1:gZ:101:VAL:HG21	2.48	0.49
2:gG:237:VAL:HG12	2:gG:237:VAL:O	2.12	0.49
2:gR:81:GLU:HG2	2:lU:64:VAL:H	1.77	0.49
1:ha:82:ASP:OD1	1:ha:83:GLY:N	2.43	0.49
2:hg:193:THR:HG23	2:hg:194:SER:N	2.28	0.49
2:hj:197:LYS:HE3	2:oH:62:GLN:HG2	1.91	0.49
2:hk:75:ILE:CD1	2:hk:213:VAL:HG22	2.42	0.49
1:hl:94:GLU:HB3	2:lG:2:ALA:N	2.28	0.49
2:hs:193:THR:OG1	2:kt:187:ARG:NH2	2.46	0.49
2:ht:294:LEU:H	2:ht:294:LEU:HD23	1.77	0.49
1:hA:60:ARG:HH21	1:lO:99:LEU:HD21	0.59	0.49
2:hG:86:VAL:O	2:hG:202:GLN:N	2.46	0.49
2:ij:103:MET:SD	2:ij:103:MET:N	2.85	0.49
2:il:117:LEU:HD21	2:il:211:TYR:HA	1.95	0.49
1:ir:103:ARG:HD2	2:jM:61:GLY:CA	2.40	0.49
2:iw:53:PHE:O	2:iw:255:ARG:NH2	2.43	0.49
2:iA:226:LEU:HD23	2:iA:227:ALA:N	2.28	0.49
1:iE:58:PHE:CD1	1:iE:101:VAL:HG21	2.48	0.49
2:iX:2:ALA:N	1:jR:94:GLU:HB3	2.28	0.49
1:ju:55:GLU:O	1:ju:105:THR:HG22	2.13	0.49
1:jv:58:PHE:CG	1:jv:101:VAL:HG21	2.48	0.49
2:jy:143:VAL:HG12	2:jy:145:PRO:HD2	1.95	0.49
1:kx:58:PHE:CD1	1:kx:101:VAL:HG21	2.48	0.49
2:kB:143:VAL:HG12	2:kB:145:PRO:HD2	1.95	0.49
2:kV:226:LEU:HD23	2:kV:227:ALA:N	2.28	0.49
2:ld:38:ILE:O	2:ld:38:ILE:HG13	2.11	0.49
2:le:64:VAL:H	2:mK:81:GLU:HG2	1.77	0.49
2:lH:103:MET:N	2:lH:103:MET:SD	2.86	0.49
2:lL:144:TYR:HH	2:lL:254:GLY:H	1.61	0.49
1:lO:60:ARG:HE	1:lO:102:GLU:HB2	1.77	0.49
2:lU:177:ARG:NH1	2:lU:213:VAL:HG21	2.28	0.49
2:lV:192:PHE:HB2	2:lV:195:MET:HE2	1.94	0.49
2:mm:263:LEU:HD23	2:mm:296:GLN:NE2	2.27	0.49
2:mx:103:MET:SD	2:mx:103:MET:N	2.86	0.49
2:mx:294:LEU:H	2:mx:294:LEU:HD23	1.77	0.49
2:mB:197:LYS:HA	2:oE:62:GLN:NE2	2.27	0.49
1:mD:100:LYS:HB2	1:oP:100:LYS:HE3	1.92	0.49
1:mF:55:GLU:O	1:mF:105:THR:HG22	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mL:63:ARG:NH2	2:mO:205:MET:SD	2.84	0.49
2:mO:263:LEU:HD23	2:mO:296:GLN:NE2	2.27	0.49
1:mT:55:GLU:O	1:mT:105:THR:HG22	2.13	0.49
2:nn:294:LEU:H	2:nn:294:LEU:HD23	1.77	0.49
2:no:179:LEU:HD22	2:no:209:TYR:HD2	1.78	0.49
2:nq:219:VAL:HG22	2:nq:219:VAL:O	2.12	0.49
2:nP:103:MET:N	2:nP:103:MET:SD	2.86	0.49
2:nP:193:THR:HG23	2:nP:194:SER:N	2.28	0.49
1:nX:55:GLU:O	1:nX:105:THR:HG22	2.13	0.49
2:ob:143:VAL:HG12	2:ob:145:PRO:HD2	1.95	0.49
2:od:86:VAL:O	2:od:202:GLN:N	2.46	0.49
2:od:192:PHE:HB2	2:od:195:MET:HE2	1.94	0.49
2:od:294:LEU:H	2:od:294:LEU:HD23	1.77	0.49
2:oe:278:VAL:HG11	2:oe:295:VAL:O	2.13	0.49
2:og:117:LEU:HD21	2:og:211:TYR:HA	1.95	0.49
2:oq:64:VAL:H	2:pW:81:GLU:HG2	1.77	0.49
2:ou:263:LEU:HD23	2:ou:296:GLN:NE2	2.27	0.49
1:oz:58:PHE:CD1	1:oz:101:VAL:HG21	2.48	0.49
1:oA:58:PHE:CG	1:oA:101:VAL:HG21	2.48	0.49
2:oE:177:ARG:NH1	2:oE:213:VAL:HG21	2.28	0.49
2:oV:237:VAL:HG12	2:oV:237:VAL:O	2.12	0.49
2:oW:263:LEU:HD23	2:oW:296:GLN:NE2	2.27	0.49
2:pj:237:VAL:O	2:pj:237:VAL:HG12	2.12	0.49
2:pt:38:ILE:O	2:pt:38:ILE:HG13	2.11	0.49
2:pt:143:VAL:HG12	2:pt:145:PRO:HD2	1.95	0.49
2:pz:185:GLN:O	2:pz:205:MET:N	2.43	0.49
2:pz:187:ARG:NH2	2:pH:193:THR:OG1	2.46	0.49
3:qf:37:LEU:HD11	3:qf:48:TYR:CD1	2.47	0.49
3:qg:55:GLU:HG2	4:qk:223:ASN:ND2	2.20	0.49
3:qi:64:GLY:C	4:qn:219:ILE:HG23	2.34	0.49
5:qp:250:THR:HG21	6:qq:125:VAL:HG22	1.94	0.49
5:qv:42:PRO:CD	6:qA:133:ASP:OD1	2.59	0.49
5:qx:284:PRO:HB2	5:qz:227:LEU:CD2	2.42	0.49
5:qz:236:LEU:HD12	5:qB:264:GLY:O	2.13	0.49
5:qB:238:LYS:HE3	5:qD:268:GLU:HA	1.93	0.49
5:qH:236:LEU:HD12	5:qJ:264:GLY:O	2.13	0.49
5:qJ:207:ARG:NE	5:qL:69:GLU:OE2	2.43	0.49
1:ac:58:PHE:CD1	1:ac:101:VAL:HG21	2.48	0.48
1:ac:62:THR:OG1	1:ac:100:LYS:O	2.27	0.48
1:aq:55:GLU:O	1:aq:105:THR:HG22	2.13	0.48
1:ar:58:PHE:CG	1:ar:101:VAL:HG21	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aR:58:PHE:CD1	1:aR:101:VAL:HG21	2.48	0.48
2:aX:9:ILE:O	2:aX:9:ILE:HG22	2.11	0.48
2:aX:192:PHE:HB2	2:aX:195:MET:HE2	1.94	0.48
2:aY:179:LEU:HD22	2:aY:209:TYR:HD2	1.78	0.48
2:bC:280:VAL:O	2:bC:289:ASN:ND2	2.44	0.48
1:bH:55:GLU:O	1:bH:105:THR:HG22	2.13	0.48
1:bH:58:PHE:CD1	1:bH:101:VAL:HG21	2.48	0.48
2:bM:103:MET:N	2:bM:103:MET:SD	2.86	0.48
2:ce:187:ARG:NH2	2:iI:193:THR:OG1	2.46	0.48
1:ci:62:THR:OG1	1:ci:100:LYS:O	2.27	0.48
2:cm:193:THR:OG1	2:iA:187:ARG:NH2	2.46	0.48
1:cx:102:GLU:CD	2:pf:62:GLN:OE1	2.53	0.48
2:cC:294:LEU:HD23	2:cC:294:LEU:H	1.77	0.48
1:cH:94:GLU:HB3	2:pg:2:ALA:N	2.28	0.48
2:dd:56:LEU:HD12	2:eJ:113:HIS:HB2	1.93	0.48
1:dm:58:PHE:CD1	1:dm:101:VAL:HG21	2.48	0.48
2:dK:187:ARG:NH2	2:pf:193:THR:OG1	2.46	0.48
2:dT:62:GLN:NE2	2:oX:197:LYS:HA	2.27	0.48
2:dU:63:ARG:NH2	2:dX:205:MET:SD	2.84	0.48
2:dV:179:LEU:HD22	2:dV:209:TYR:HD2	1.78	0.48
2:eh:2:ALA:N	1:eB:94:GLU:HB3	2.28	0.48
2:eh:193:THR:CG2	2:eu:193:THR:CG2	2.91	0.48
2:ei:192:PHE:HB2	2:ei:195:MET:HE2	1.94	0.48
2:el:263:LEU:HD23	2:el:296:GLN:NE2	2.27	0.48
1:ep:99:LEU:HD21	1:nI:60:ARG:HH21	0.59	0.48
1:eq:58:PHE:CD1	1:eq:101:VAL:HG21	2.48	0.48
2:eW:143:VAL:HG12	2:eW:145:PRO:HD2	1.95	0.48
1:ff:60:ARG:HH21	1:ib:99:LEU:HD21	0.59	0.48
1:fj:99:LEU:HD21	1:gJ:102:GLU:OE2	2.06	0.48
2:fl:64:VAL:H	2:gD:81:GLU:HG2	1.77	0.48
2:fy:193:THR:OG1	2:nr:187:ARG:NH2	2.46	0.48
2:fz:177:ARG:NH1	2:fz:213:VAL:HG21	2.28	0.48
2:fA:63:ARG:NH2	2:fD:205:MET:SD	2.84	0.48
2:fE:197:LYS:HE3	1:mg:100:LYS:N	2.27	0.48
2:fN:64:VAL:H	2:IU:81:GLU:HG2	1.77	0.48
2:gb:193:THR:CG2	2:ig:193:THR:CG2	2.91	0.48
2:gd:278:VAL:HG11	2:gd:295:VAL:O	2.13	0.48
2:gf:197:LYS:HE3	2:mz:62:GLN:HG2	1.91	0.48
2:gR:2:ALA:N	1:ma:94:GLU:HB3	2.28	0.48
2:gR:193:THR:CG2	2:IT:193:THR:CG2	2.91	0.48
1:gX:100:LYS:CD	1:lS:100:LYS:NZ	2.71	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hf:64:VAL:H	2:lG:81:GLU:HG2	1.77	0.48
2:hf:81:GLU:HG2	2:kC:64:VAL:H	1.77	0.48
2:hi:237:VAL:HG12	2:hi:237:VAL:O	2.12	0.48
1:ho:103:ARG:HG3	2:hG:61:GLY:HA3	1.93	0.48
2:hu:179:LEU:HD22	2:hu:209:TYR:HD2	1.78	0.48
2:hu:278:VAL:HG11	2:hu:295:VAL:O	2.13	0.48
2:hw:117:LEU:HD21	2:hw:211:TYR:HA	1.95	0.48
2:hx:187:ARG:NH2	2:hF:193:THR:OG1	2.46	0.48
1:hD:105:THR:HG21	2:kT:60:ILE:CG2	2.39	0.48
2:hV:143:VAL:HG22	2:hV:144:TYR:CE2	2.47	0.48
2:hX:100:GLY:N	2:hX:101:PRO:CD	2.75	0.48
2:ii:63:ARG:NH2	2:il:205:MET:SD	2.84	0.48
2:ij:278:VAL:HG11	2:ij:295:VAL:O	2.13	0.48
2:iu:13:LYS:NZ	2:jP:93:ASP:OD1	2.42	0.48
2:iz:197:LYS:HZ1	2:ot:62:GLN:HE21	1.60	0.48
2:iZ:179:LEU:HD22	2:iZ:209:TYR:HD2	1.78	0.48
2:jc:187:ARG:NH2	2:jk:193:THR:OG1	2.46	0.48
2:jl:81:GLU:HG2	2:ls:64:VAL:H	1.77	0.48
2:jm:103:MET:N	2:jm:103:MET:SD	2.86	0.48
2:jm:294:LEU:H	2:jm:294:LEU:HD23	1.77	0.48
2:jS:226:LEU:HD23	2:jS:227:ALA:N	2.28	0.48
2:kb:177:ARG:NH1	2:kb:213:VAL:HG21	2.28	0.48
2:kb:225:GLN:OE1	2:kb:225:GLN:N	2.45	0.48
2:kC:193:THR:CG2	2:kP:193:THR:CG2	2.91	0.48
2:kD:53:PHE:O	2:kD:255:ARG:NH2	2.43	0.48
2:kE:179:LEU:HD22	2:kE:209:TYR:HD2	1.78	0.48
2:kV:187:ARG:NH2	2:mX:193:THR:OG1	2.46	0.48
1:lo:58:PHE:CG	1:lo:101:VAL:HG21	2.48	0.48
2:lw:263:LEU:HD23	2:lw:296:GLN:NE2	2.27	0.48
2:lx:185:GLN:O	2:lx:205:MET:N	2.43	0.48
1:lB:55:GLU:O	1:lB:105:THR:HG22	2.13	0.48
1:lC:58:PHE:CG	1:lC:101:VAL:HG21	2.48	0.48
1:mc:60:ARG:HE	1:mc:102:GLU:HB2	1.77	0.48
2:mO:117:LEU:HD21	2:mO:211:TYR:HA	1.95	0.48
2:mZ:53:PHE:O	2:mZ:255:ARG:NH2	2.43	0.48
2:mZ:103:MET:N	2:mZ:103:MET:SD	2.86	0.48
2:na:103:MET:SD	2:na:103:MET:N	2.85	0.48
2:nc:263:LEU:HD23	2:nc:296:GLN:NE2	2.27	0.48
1:ni:58:PHE:CG	1:ni:101:VAL:HG21	2.48	0.48
2:nn:81:GLU:O	2:np:57:ARG:N	2.39	0.48
2:nr:226:LEU:HD23	2:nr:227:ALA:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nz:143:VAL:HG12	2:nz:145:PRO:HD2	1.95	0.48
1:nK:58:PHE:CG	1:nK:101:VAL:HG21	2.48	0.48
2:nN:143:VAL:HG12	2:nN:145:PRO:HD2	1.95	0.48
2:nQ:278:VAL:HG11	2:nQ:295:VAL:O	2.13	0.48
2:nT:187:ARG:NH2	2:ob:193:THR:OG1	2.46	0.48
2:oR:143:VAL:HG12	2:oR:145:PRO:HD2	1.95	0.48
2:pz:197:LYS:HA	2:pI:62:GLN:NE2	2.27	0.48
1:pB:67:CYS:HA	1:pB:72:CYS:HA	1.95	0.48
2:pK:278:VAL:HG11	2:pK:295:VAL:O	2.13	0.48
1:pQ:60:ARG:HE	1:pQ:102:GLU:HB2	1.77	0.48
1:ad:58:PHE:CG	1:ad:101:VAL:HG21	2.48	0.48
2:ai:103:MET:N	2:ai:103:MET:SD	2.86	0.48
2:ai:192:PHE:HB2	2:ai:195:MET:HE2	1.94	0.48
2:ak:237:VAL:O	2:ak:237:VAL:HG12	2.12	0.48
1:ao:67:CYS:HA	1:ao:72:CYS:HA	1.96	0.48
2:av:103:MET:N	2:av:103:MET:SD	2.86	0.48
2:aw:179:LEU:HD22	2:aw:209:TYR:HD2	1.78	0.48
2:ay:219:VAL:O	2:ay:219:VAL:HG22	2.12	0.48
2:ay:280:VAL:O	2:ay:289:ASN:ND2	2.44	0.48
2:az:226:LEU:HD23	2:az:227:ALA:N	2.28	0.48
1:aF:105:THR:HG21	2:nb:60:ILE:CG2	2.38	0.48
2:aH:150:THR:OG1	2:aH:220:GLY:O	2.18	0.48
2:aI:2:ALA:N	1:jd:94:GLU:HB3	2.28	0.48
2:aJ:294:LEU:H	2:aJ:294:LEU:HD23	1.77	0.48
2:aW:2:ALA:N	1:bq:94:GLU:HB3	2.28	0.48
2:aX:103:MET:N	2:aX:103:MET:SD	2.86	0.48
2:aX:193:THR:HG23	2:aX:194:SER:N	2.28	0.48
1:bd:67:CYS:HA	1:bd:72:CYS:HA	1.95	0.48
1:bh:100:LYS:HE3	1:je:100:LYS:HB2	1.92	0.48
2:bl:294:LEU:H	2:bl:294:LEU:HD23	1.77	0.48
2:bp:187:ARG:NH2	2:dq:193:THR:OG1	2.46	0.48
1:bs:60:ARG:HE	1:bs:102:GLU:HB2	1.77	0.48
1:bt:103:ARG:HG3	2:hU:61:GLY:HA3	1.93	0.48
2:bz:61:GLY:CA	1:cY:103:ARG:NH1	2.70	0.48
2:bD:197:LYS:HA	2:hT:62:GLN:NE2	2.27	0.48
1:bV:58:PHE:CG	1:bV:101:VAL:HG21	2.48	0.48
2:bZ:2:ALA:N	1:iP:94:GLU:HB3	2.28	0.48
2:cc:96:LEU:HD12	2:eY:12:LEU:CD2	2.44	0.48
2:cd:117:LEU:HD21	2:cd:211:TYR:HA	1.95	0.48
2:ce:144:TYR:HH	2:ce:254:GLY:H	1.60	0.48
2:ce:197:LYS:HE3	1:iH:100:LYS:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cE:34:VAL:HG12	2:cE:263:LEU:HD21	1.95	0.48
2:cG:197:LYS:HA	2:cP:62:GLN:NE2	2.27	0.48
2:cO:143:VAL:HG12	2:cO:145:PRO:HD2	1.95	0.48
2:cP:2:ALA:N	1:fd:94:GLU:HB3	2.28	0.48
2:cT:117:LEU:HD21	2:cT:211:TYR:HA	1.95	0.48
2:dd:177:ARG:NH1	2:dd:213:VAL:HG21	2.28	0.48
2:de:86:VAL:O	2:de:202:GLN:N	2.46	0.48
2:de:192:PHE:HB2	2:de:195:MET:HE2	1.94	0.48
2:dg:34:VAL:HG12	2:dg:263:LEU:HD21	1.96	0.48
2:ds:63:ARG:NH2	2:dv:205:MET:SD	2.84	0.48
2:ds:103:MET:SD	2:ds:103:MET:N	2.86	0.48
2:dE:193:THR:CG2	2:eX:193:THR:CG2	2.91	0.48
2:dG:193:THR:HG23	2:dG:194:SER:N	2.28	0.48
1:dM:67:CYS:HA	1:dM:72:CYS:HA	1.96	0.48
2:dT:2:ALA:N	1:nU:94:GLU:HB3	2.28	0.48
2:dU:103:MET:N	2:dU:103:MET:SD	2.86	0.48
2:dX:219:VAL:HG22	2:dX:219:VAL:O	2.12	0.48
1:ea:67:CYS:HA	1:ea:72:CYS:HA	1.95	0.48
2:ei:61:GLY:CA	1:nv:103:ARG:NH1	2.70	0.48
2:ex:278:VAL:HG11	2:ex:295:VAL:O	2.13	0.48
2:ez:203:VAL:HG12	2:ez:205:MET:HG3	1.96	0.48
2:eM:237:VAL:O	2:eM:237:VAL:HG12	2.12	0.48
2:eX:225:GLN:N	2:eX:225:GLN:OE1	2.45	0.48
1:fg:103:ARG:NH1	2:nB:61:GLY:CA	2.70	0.48
2:fl:2:ALA:N	1:nG:94:GLU:HB3	2.28	0.48
2:fp:263:LEU:HD23	2:fp:296:GLN:NE2	2.27	0.48
2:fy:193:THR:CG2	2:nm:193:THR:CG2	2.91	0.48
2:fz:64:VAL:H	2:nm:81:GLU:HG2	1.77	0.48
2:fC:237:VAL:O	2:fC:237:VAL:HG12	2.12	0.48
1:fF:94:GLU:HB3	2:nm:2:ALA:N	2.28	0.48
1:fF:102:GLU:OE2	1:mg:99:LEU:HD21	2.06	0.48
2:fS:226:LEU:HD23	2:fS:227:ALA:N	2.28	0.48
1:fU:100:LYS:HB2	1:mt:100:LYS:HE3	1.92	0.48
1:gk:55:GLU:O	1:gk:105:THR:HG22	2.13	0.48
2:go:193:THR:CG2	2:hT:193:THR:CG2	2.91	0.48
2:gp:177:ARG:NH1	2:gp:213:VAL:HG21	2.28	0.48
2:gq:193:THR:HG23	2:gq:194:SER:N	2.28	0.48
2:gt:117:LEU:HD21	2:gt:211:TYR:HA	1.95	0.48
2:gF:278:VAL:HG11	2:gF:295:VAL:O	2.13	0.48
2:gW:226:LEU:HD23	2:gW:227:ALA:N	2.28	0.48
1:hb:58:PHE:CG	1:hb:101:VAL:HG21	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hg:81:GLU:O	2:hi:57:ARG:N	2.39	0.48
2:hg:103:MET:N	2:hg:103:MET:SD	2.86	0.48
2:hj:117:LEU:HD21	2:hj:211:TYR:HA	1.95	0.48
1:hm:67:CYS:HA	1:hm:72:CYS:HA	1.95	0.48
1:hr:100:LYS:N	2:kt:197:LYS:HE3	2.27	0.48
2:hx:226:LEU:HD23	2:hx:227:ALA:N	2.28	0.48
2:hG:63:ARG:NH2	2:hJ:205:MET:SD	2.84	0.48
2:hI:62:GLN:HE21	2:kU:197:LYS:HZ1	1.61	0.48
1:hM:67:CYS:HA	1:hM:72:CYS:HA	1.95	0.48
1:hN:60:ARG:HE	1:hN:102:GLU:HB2	1.77	0.48
2:hX:263:LEU:HD23	2:hX:296:GLN:NE2	2.27	0.48
2:ih:280:VAL:O	2:ih:289:ASN:ND2	2.41	0.48
2:ii:193:THR:HG23	2:ii:194:SER:N	2.28	0.48
2:iv:177:ARG:NH1	2:iv:213:VAL:HG21	2.28	0.48
2:iw:193:THR:HG23	2:iw:194:SER:N	2.28	0.48
2:iK:63:ARG:NH2	2:iN:205:MET:SD	2.84	0.48
2:iO:226:LEU:HD23	2:iO:227:ALA:N	2.28	0.48
1:iS:55:GLU:O	1:iS:105:THR:HG22	2.13	0.48
2:iX:193:THR:CG2	2:jk:193:THR:CG2	2.91	0.48
2:iX:225:GLN:N	2:iX:225:GLN:OE1	2.45	0.48
2:ja:34:VAL:HG12	2:ja:263:LEU:HD21	1.96	0.48
2:jb:263:LEU:HD23	2:jb:296:GLN:NE2	2.27	0.48
2:jn:196:THR:O	2:lt:63:ARG:HD3	2.11	0.48
2:jE:197:LYS:HA	2:pW:62:GLN:NE2	2.27	0.48
2:jP:278:VAL:HG11	2:jP:295:VAL:O	2.13	0.48
2:kD:63:ARG:NH2	2:kG:205:MET:SD	2.84	0.48
2:kD:294:LEU:H	2:kD:294:LEU:HD23	1.77	0.48
1:kL:63:VAL:HG23	1:kL:99:LEU:CD1	2.42	0.48
1:kX:67:CYS:HA	1:kX:72:CYS:HA	1.95	0.48
2:ld:193:THR:OG1	2:mP:187:ARG:NH2	2.46	0.48
2:lr:43:ALA:O	2:lr:44:SER:OG	2.20	0.48
2:ls:177:ARG:NH1	2:ls:213:VAL:HG21	2.28	0.48
2:lu:179:LEU:HD22	2:lu:209:TYR:HD2	1.78	0.48
2:lw:219:VAL:O	2:lw:219:VAL:HG22	2.12	0.48
1:lM:94:GLU:HB3	2:mY:2:ALA:N	2.28	0.48
2:lX:237:VAL:O	2:lX:237:VAL:HG12	2.12	0.48
2:lY:117:LEU:HD21	2:lY:211:TYR:HA	1.95	0.48
2:lY:219:VAL:HG22	2:lY:219:VAL:O	2.12	0.48
2:mn:197:LYS:HA	2:mw:62:GLN:NE2	2.27	0.48
1:mr:58:PHE:CD1	1:mr:101:VAL:HG21	2.48	0.48
2:mw:177:ARG:NH1	2:mw:213:VAL:HG21	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mx:281:GLN:OE1	2:mx:281:GLN:N	2.44	0.48
1:mT:58:PHE:CD1	1:mT:101:VAL:HG21	2.48	0.48
2:na:278:VAL:HG11	2:na:295:VAL:O	2.13	0.48
1:nu:98:LEU:HD23	2:nC:63:ARG:O	2.11	0.48
2:nC:278:VAL:HG11	2:nC:295:VAL:O	2.13	0.48
2:nE:263:LEU:HD23	2:nE:296:GLN:NE2	2.27	0.48
1:nH:67:CYS:HA	1:nH:72:CYS:HA	1.95	0.48
2:nO:113:HIS:HB2	2:oc:56:LEU:HD12	1.93	0.48
2:oc:177:ARG:NH1	2:oc:213:VAL:HG21	2.28	0.48
2:od:193:THR:HG23	2:od:194:SER:N	2.28	0.48
2:og:280:VAL:O	2:og:289:ASN:ND2	2.44	0.48
1:oz:62:THR:OG1	1:oz:100:LYS:O	2.27	0.48
2:oF:192:PHE:HB2	2:oF:195:MET:HE2	1.94	0.48
1:oN:55:GLU:O	1:oN:105:THR:HG22	2.13	0.48
2:pf:143:VAL:HG12	2:pf:145:PRO:HD2	1.95	0.48
2:pk:263:LEU:HD23	2:pk:296:GLN:NE2	2.27	0.48
2:pl:226:LEU:HD23	2:pl:227:ALA:N	2.28	0.48
2:px:237:VAL:HG12	2:px:237:VAL:O	2.12	0.48
2:py:263:LEU:HD23	2:py:296:GLN:NE2	2.27	0.48
2:pz:226:LEU:HD23	2:pz:227:ALA:N	2.28	0.48
2:pK:179:LEU:HD22	2:pK:209:TYR:HD2	1.78	0.48
2:pL:237:VAL:HG12	2:pL:237:VAL:O	2.12	0.48
2:qa:117:LEU:HD21	2:qa:211:TYR:HA	1.95	0.48
3:qe:31:VAL:HB	3:qe:32:PRO:HD3	1.95	0.48
3:qf:15:ILE:HA	3:qf:18:ILE:HB	1.96	0.48
3:qh:118:VAL:HG11	3:qi:127:GLN:HE22	1.79	0.48
4:qn:214:GLN:O	4:qo:38:GLN:CG	2.57	0.48
5:qp:236:LEU:HD12	5:qr:264:GLY:O	2.13	0.48
6:qA:131:ARG:O	6:qA:131:ARG:HG2	2.14	0.48
5:qF:250:THR:O	5:qF:253:ARG:HG2	2.13	0.48
5:qJ:284:PRO:HB2	5:qL:227:LEU:CD2	2.42	0.48
2:ai:294:LEU:H	2:ai:294:LEU:HD23	1.77	0.48
2:ay:203:VAL:HG12	2:ay:205:MET:HG3	1.96	0.48
2:aN:187:ARG:NH2	2:iW:193:THR:OG1	2.46	0.48
1:aR:55:GLU:O	1:aR:105:THR:HG22	2.13	0.48
2:aV:193:THR:OG1	2:iO:187:ARG:NH2	2.46	0.48
2:aX:294:LEU:HD23	2:aX:294:LEU:H	1.77	0.48
2:bp:185:GLN:O	2:bp:205:MET:N	2.43	0.48
2:bp:197:LYS:HE3	1:dp:100:LYS:N	2.27	0.48
2:bx:193:THR:OG1	2:di:187:ARG:NH2	2.46	0.48
2:bz:192:PHE:HB2	2:bz:195:MET:HE2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bC:197:LYS:HE3	2:dI:62:GLN:HG2	1.90	0.48
2:bL:150:THR:OG1	2:bL:220:GLY:O	2.18	0.48
2:bP:263:LEU:HD23	2:bP:296:GLN:NE2	2.27	0.48
2:cm:193:THR:CG2	2:iv:193:THR:CG2	2.91	0.48
2:cn:177:ARG:NH1	2:cn:213:VAL:HG21	2.28	0.48
2:cq:34:VAL:HG12	2:cq:263:LEU:HD21	1.96	0.48
2:cB:177:ARG:NH1	2:cB:213:VAL:HG21	2.28	0.48
2:cF:203:VAL:HG12	2:cF:205:MET:HG3	1.96	0.48
2:cQ:12:LEU:CD2	2:px:96:LEU:HD12	2.44	0.48
2:cQ:103:MET:SD	2:cQ:103:MET:N	2.86	0.48
2:dJ:117:LEU:HD21	2:dJ:211:TYR:HA	1.95	0.48
1:dL:94:GLU:HB3	2:eX:2:ALA:N	2.28	0.48
2:dS:193:THR:CG2	2:oS:193:THR:CG2	2.91	0.48
2:dS:193:THR:OG1	2:oX:187:ARG:NH2	2.46	0.48
2:dV:278:VAL:HG11	2:dV:295:VAL:O	2.13	0.48
2:dY:187:ARG:NH2	2:nN:193:THR:OG1	2.46	0.48
1:ed:58:PHE:CG	1:ed:101:VAL:HG21	2.48	0.48
2:ej:179:LEU:HD22	2:ej:209:TYR:HD2	1.78	0.48
2:em:187:ARG:NH2	2:eu:193:THR:OG1	2.46	0.48
1:ep:60:ARG:HE	1:ep:102:GLU:HB2	1.77	0.48
2:ey:96:LEU:HD12	2:ph:12:LEU:CD2	2.44	0.48
2:ey:237:VAL:O	2:ey:237:VAL:HG12	2.12	0.48
2:eK:281:GLN:N	2:eK:281:GLN:OE1	2.44	0.48
2:fl:193:THR:CG2	2:nz:193:THR:CG2	2.91	0.48
2:fp:203:VAL:HG12	2:fp:205:MET:HG3	1.96	0.48
1:fx:100:LYS:N	2:nr:197:LYS:HE3	2.27	0.48
2:fy:143:VAL:HG12	2:fy:145:PRO:HD2	1.95	0.48
2:fD:263:LEU:HD23	2:fD:296:GLN:NE2	2.27	0.48
1:fH:60:ARG:HE	1:fH:102:GLU:HB2	1.77	0.48
1:fl:99:LEU:CA	2:mx:197:LYS:HZ1	2.10	0.48
2:fM:193:THR:CG2	2:lU:193:THR:CG2	2.91	0.48
2:fO:192:PHE:HB2	2:fO:195:MET:HE2	1.94	0.48
2:fQ:60:ILE:CG2	1:kz:105:THR:HG21	2.38	0.48
1:fV:60:ARG:HH21	1:nu:99:LEU:HD21	0.59	0.48
1:fY:105:THR:HG21	2:mz:60:ILE:CG2	2.38	0.48
2:gc:294:LEU:H	2:gc:294:LEU:HD23	1.77	0.48
2:gf:117:LEU:HD21	2:gf:211:TYR:HA	1.95	0.48
2:go:193:THR:OG1	2:hY:187:ARG:NH2	2.46	0.48
2:gt:219:VAL:O	2:gt:219:VAL:HG22	2.12	0.48
1:gx:60:ARG:HE	1:gx:102:GLU:HB2	1.77	0.48
2:gG:34:VAL:HG12	2:gG:263:LEU:HD21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gG:62:GLN:HG2	2:pk:197:LYS:HE3	1.90	0.48
2:gI:185:GLN:O	2:gI:205:MET:N	2.43	0.48
2:gS:103:MET:SD	2:gS:103:MET:N	2.86	0.48
2:gW:187:ARG:NH2	2:IT:193:THR:OG1	2.46	0.48
2:hg:12:LEU:CD2	2:mz:96:LEU:HD12	2.44	0.48
2:hG:53:PHE:O	2:hG:255:ARG:NH2	2.43	0.48
2:hJ:117:LEU:HD21	2:hJ:211:TYR:HA	1.95	0.48
1:hO:55:GLU:O	1:hO:105:THR:HG22	2.13	0.48
2:iu:38:ILE:HG13	2:iu:38:ILE:O	2.11	0.48
2:iK:193:THR:HG23	2:iK:194:SER:N	2.28	0.48
2:iM:34:VAL:HG12	2:iM:263:LEU:HD21	1.96	0.48
2:iY:193:THR:HG23	2:iY:194:SER:N	2.28	0.48
2:jc:197:LYS:HE3	1:jj:100:LYS:N	2.27	0.48
2:jm:81:GLU:O	2:jo:57:ARG:N	2.39	0.48
2:jQ:187:ARG:NH2	2:lr:193:THR:OG1	2.46	0.48
1:ju:58:PHE:CD1	1:ju:101:VAL:HG21	2.48	0.48
2:jy:193:THR:OG1	2:lj:187:ARG:NH2	2.46	0.48
1:jG:67:CYS:HA	1:jG:72:CYS:HA	1.95	0.48
1:jH:99:LEU:HD21	1:oM:60:ARG:HH21	0.59	0.48
1:jJ:102:GLU:CD	2:pH:62:GLN:OE1	2.53	0.48
2:jN:177:ARG:NH1	2:jN:213:VAL:HG21	2.28	0.48
2:jO:193:THR:HG23	2:jO:194:SER:N	2.28	0.48
2:kc:192:PHE:HB2	2:kc:195:MET:HE2	1.94	0.48
2:kp:294:LEU:H	2:kp:294:LEU:HD23	1.77	0.48
2:kF:34:VAL:HG12	2:kF:263:LEU:HD21	1.96	0.48
1:kL:58:PHE:CD1	1:kL:101:VAL:HG21	2.48	0.48
2:kR:103:MET:N	2:kR:103:MET:SD	2.86	0.48
2:le:282:ARG:NH2	2:mK:282:ARG:HH11	1.93	0.48
2:lg:179:LEU:HD22	2:lg:209:TYR:HD2	1.78	0.48
2:lj:226:LEU:HD23	2:lj:227:ALA:N	2.28	0.48
2:IT:143:VAL:HG12	2:IT:145:PRO:HD2	1.95	0.48
2:IV:193:THR:HG23	2:IV:194:SER:N	2.28	0.48
2:mi:2:ALA:N	1:mC:94:GLU:HB3	2.28	0.48
2:mj:193:THR:HG23	2:mj:194:SER:N	2.28	0.48
2:mB:226:LEU:HD23	2:mB:227:ALA:N	2.28	0.48
2:mN:34:VAL:HG12	2:mN:263:LEU:HD21	1.96	0.48
2:mN:96:LEU:HD12	2:nn:12:LEU:CD2	2.44	0.48
2:mZ:193:THR:HG23	2:mZ:194:SER:N	2.28	0.48
2:nc:171:TYR:OH	2:nc:175:THR:OG1	2.12	0.48
1:nt:67:CYS:HA	1:nt:72:CYS:HA	1.95	0.48
2:nB:294:LEU:H	2:nB:294:LEU:HD23	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nE:117:LEU:HD21	2:nE:211:TYR:HA	1.95	0.48
2:nF:75:ILE:CD1	2:nF:213:VAL:HG22	2.42	0.48
2:od:63:ARG:NH2	2:og:205:MET:SD	2.84	0.48
2:os:278:VAL:HG11	2:os:295:VAL:O	2.13	0.48
1:ox:67:CYS:HA	1:ox:72:CYS:HA	1.96	0.48
1:oO:58:PHE:CG	1:oO:101:VAL:HG21	2.48	0.48
2:oS:44:SER:OG	2:oS:75:ILE:O	2.21	0.48
1:oZ:67:CYS:HA	1:oZ:72:CYS:HA	1.95	0.48
2:ph:86:VAL:O	2:ph:202:GLN:N	2.46	0.48
2:ph:192:PHE:HB2	2:ph:195:MET:HE2	1.94	0.48
2:pi:278:VAL:HG11	2:pi:295:VAL:O	2.13	0.48
1:pD:63:VAL:HG23	1:pD:99:LEU:CD1	2.42	0.48
2:pN:226:LEU:HD23	2:pN:227:ALA:N	2.28	0.48
3:qe:102:LEU:O	3:qe:106:VAL:HG23	2.13	0.48
3:qf:66:GLN:HA	4:ql:8:TYR:HD2	1.77	0.48
3:qi:15:ILE:HA	3:qi:18:ILE:HB	1.96	0.48
3:qi:64:GLY:O	4:qn:220:SER:N	2.46	0.48
3:qi:68:ALA:CA	4:qo:8:TYR:CZ	2.96	0.48
4:qk:116:PHE:CD1	4:ql:202:ILE:HD11	2.48	0.48
4:qm:211:ASP:N	4:qm:231:SER:O	2.45	0.48
6:qq:83:LEU:HD11	6:qq:89:VAL:HG11	1.94	0.48
5:qv:250:THR:O	5:qv:253:ARG:HG2	2.13	0.48
6:qw:131:ARG:O	6:qw:131:ARG:HG2	2.14	0.48
5:qz:250:THR:HG21	6:qA:125:VAL:HG22	1.94	0.48
5:qB:250:THR:O	5:qB:253:ARG:HG2	2.13	0.48
6:qC:131:ARG:HG2	6:qC:131:ARG:O	2.14	0.48
5:qD:140:GLU:O	5:qD:151:LEU:N	2.39	0.48
5:qD:236:LEU:HD12	5:qF:264:GLY:O	2.13	0.48
6:qG:131:ARG:O	6:qG:131:ARG:HG2	2.14	0.48
5:qH:392:LEU:HD12	5:qJ:400:TYR:HE1	1.58	0.48
1:ad:102:GLU:CD	2:ob:62:GLN:OE1	2.53	0.48
1:aE:58:PHE:CG	1:aE:101:VAL:HG21	2.48	0.48
1:aE:102:GLU:CD	2:ka:62:GLN:OE1	2.53	0.48
1:aE:102:GLU:HG2	2:ka:62:GLN:OE1	2.02	0.48
2:aI:81:GLU:HG2	2:iX:64:VAL:H	1.77	0.48
2:aK:103:MET:N	2:aK:103:MET:SD	2.85	0.48
2:aN:226:LEU:HD23	2:aN:227:ALA:N	2.28	0.48
2:aV:143:VAL:HG12	2:aV:145:PRO:HD2	1.95	0.48
2:aZ:237:VAL:HG12	2:aZ:237:VAL:O	2.12	0.48
1:bc:100:LYS:HD2	2:bj:197:LYS:HZ2	1.77	0.48
2:bl:103:MET:N	2:bl:103:MET:SD	2.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bz:103:MET:N	2:bz:103:MET:SD	2.86	0.48
2:cb:196:THR:O	2:iK:63:ARG:HD3	2.11	0.48
2:cb:278:VAL:HG11	2:cb:295:VAL:O	2.13	0.48
1:ci:58:PHE:CD1	1:ci:101:VAL:HG21	2.48	0.48
2:cB:2:ALA:N	1:cV:94:GLU:HB3	2.28	0.48
1:cK:55:GLU:O	1:cK:105:THR:HG22	2.13	0.48
1:cY:82:ASP:OD1	1:cY:83:GLY:N	2.43	0.48
2:dq:150:THR:OG1	2:dq:220:GLY:O	2.18	0.48
2:ds:193:THR:HG23	2:ds:194:SER:N	2.28	0.48
2:du:34:VAL:HG12	2:du:263:LEU:HD21	1.96	0.48
1:dB:58:PHE:CG	1:dB:101:VAL:HG21	2.48	0.48
2:dG:81:GLU:O	2:dI:57:ARG:N	2.39	0.48
2:dI:34:VAL:HG12	2:dI:263:LEU:HD21	1.95	0.48
2:dI:237:VAL:O	2:dI:237:VAL:HG12	2.12	0.48
2:dK:144:TYR:HH	2:dK:254:GLY:H	1.61	0.48
2:dT:193:THR:CG2	2:nN:193:THR:CG2	2.91	0.48
2:eh:63:ARG:NE	2:nA:205:MET:CE	2.74	0.48
1:eo:100:LYS:HB2	1:nZ:100:LYS:HE3	1.92	0.48
2:eA:226:LEU:HD23	2:eA:227:ALA:N	2.28	0.48
2:eO:226:LEU:HD23	2:eO:227:ALA:N	2.28	0.48
1:eT:58:PHE:CG	1:eT:101:VAL:HG21	2.48	0.48
2:fk:61:GLY:CA	1:nw:103:ARG:HD2	2.40	0.48
2:fl:63:ARG:NE	2:gD:205:MET:CE	2.74	0.48
2:fm:281:GLN:OE1	2:fm:281:GLN:N	2.44	0.48
2:fq:187:ARG:NH2	2:nz:193:THR:OG1	2.46	0.48
1:fs:58:PHE:CE1	1:fs:101:VAL:HG11	2.49	0.48
2:fz:205:MET:CE	2:mi:63:ARG:NE	2.74	0.48
2:fA:12:LEU:CD2	2:of:96:LEU:HD12	2.44	0.48
2:fB:103:MET:N	2:fB:103:MET:SD	2.85	0.48
1:fI:58:PHE:CD1	1:fI:101:VAL:HG21	2.48	0.48
1:fL:100:LYS:N	2:lZ:197:LYS:HE3	2.27	0.48
2:fr:219:VAL:O	2:fr:219:VAL:HG22	2.12	0.48
2:fS:197:LYS:HA	2:gb:62:GLN:NE2	2.27	0.48
2:ge:237:VAL:O	2:ge:237:VAL:HG12	2.12	0.48
1:gi:58:PHE:CE1	1:gi:101:VAL:HG11	2.49	0.48
2:gp:225:GLN:N	2:gp:225:GLN:OE1	2.45	0.48
2:gq:192:PHE:HB2	2:gq:195:MET:HE2	1.94	0.48
1:gN:58:PHE:CG	1:gN:101:VAL:HG21	2.48	0.48
2:gQ:193:THR:OG1	2:im:187:ARG:NH2	2.46	0.48
2:gQ:193:THR:CG2	2:ih:193:THR:CG2	2.91	0.48
1:gY:67:CYS:HA	1:gY:72:CYS:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hd:100:LYS:NZ	1:lm:100:LYS:CD	2.71	0.48
2:hf:225:GLN:N	2:hf:225:GLN:OE1	2.45	0.48
2:hg:63:ARG:NH2	2:hj:205:MET:SD	2.84	0.48
1:hB:58:PHE:CD1	1:hB:101:VAL:HG21	2.48	0.48
2:hH:278:VAL:HG11	2:hH:295:VAL:O	2.13	0.48
2:hT:225:GLN:OE1	2:hT:225:GLN:N	2.45	0.48
1:ic:62:THR:OG1	1:ic:100:LYS:O	2.27	0.48
1:io:67:CYS:HA	1:io:72:CYS:HA	1.95	0.48
1:it:100:LYS:HZ1	1:jT:100:LYS:HD3	1.74	0.48
2:iz:263:LEU:HD23	2:iz:296:GLN:NE2	2.27	0.48
2:iA:185:GLN:O	2:iA:205:MET:N	2.43	0.48
2:iK:294:LEU:H	2:iK:294:LEU:HD23	1.77	0.48
2:iX:177:ARG:NH1	2:iX:213:VAL:HG21	2.28	0.48
2:iY:192:PHE:HB2	2:iY:195:MET:HE2	1.95	0.48
2:jc:226:LEU:HD23	2:jc:227:ALA:N	2.28	0.48
2:jo:237:VAL:O	2:jo:237:VAL:HG12	2.12	0.48
1:jL:100:LYS:N	2:pN:197:LYS:HE3	2.27	0.48
2:jQ:34:VAL:HG12	2:jQ:263:LEU:HD21	1.96	0.48
2:kd:278:VAL:HG11	2:kd:295:VAL:O	2.13	0.48
2:ke:96:LEU:HD12	2:mZ:12:LEU:CD2	2.44	0.48
2:kf:203:VAL:HG12	2:kf:205:MET:HG3	1.96	0.48
2:kD:12:LEU:CD2	2:IX:96:LEU:HD12	2.44	0.48
2:kH:185:GLN:O	2:kH:205:MET:N	2.43	0.48
2:kQ:193:THR:CG2	2:mX:193:THR:CG2	2.91	0.48
2:kT:237:VAL:HG12	2:kT:237:VAL:O	2.12	0.48
1:kZ:55:GLU:O	1:kZ:105:THR:HG22	2.13	0.48
1:la:102:GLU:CD	2:mJ:62:GLN:OE1	2.53	0.48
2:ld:193:THR:CG2	2:mK:193:THR:CG2	2.91	0.48
2:lf:192:PHE:HB2	2:lf:195:MET:HE2	1.94	0.48
2:lg:278:VAL:HG11	2:lg:295:VAL:O	2.13	0.48
2:lt:103:MET:N	2:lt:103:MET:SD	2.86	0.48
2:IJ:34:VAL:HG12	2:IJ:263:LEU:HD21	1.96	0.48
2:IK:203:VAL:HG12	2:IK:205:MET:HG3	1.96	0.48
2:lZ:226:LEU:HD23	2:lZ:227:ALA:N	2.28	0.48
1:mb:67:CYS:HA	1:mb:72:CYS:HA	1.95	0.48
1:md:82:ASP:OD1	1:md:83:GLY:N	2.43	0.48
2:mk:278:VAL:HG11	2:mk:295:VAL:O	2.13	0.48
2:ml:34:VAL:HG12	2:ml:263:LEU:HD21	1.95	0.48
2:mm:219:VAL:O	2:mm:219:VAL:HG22	2.12	0.48
1:ms:58:PHE:CG	1:ms:101:VAL:HG21	2.48	0.48
1:mD:58:PHE:CE1	1:mD:101:VAL:HG11	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mL:281:GLN:OE1	2:mL:281:GLN:N	2.44	0.48
2:mM:179:LEU:HD22	2:mM:209:TYR:HD2	1.78	0.48
1:mS:60:ARG:HE	1:mS:102:GLU:HB2	1.77	0.48
1:mU:58:PHE:CG	1:mU:101:VAL:HG21	2.48	0.48
1:nh:55:GLU:O	1:nh:105:THR:HG22	2.13	0.48
1:ni:102:GLU:CD	2:oD:62:GLN:OE1	2.53	0.48
2:nl:46:THR:HG22	2:nl:74:GLN:HG2	1.96	0.48
1:nJ:103:ARG:HG3	2:od:61:GLY:HA3	1.93	0.48
2:nO:81:GLU:HG2	2:oc:64:VAL:H	1.77	0.48
2:nO:225:GLN:N	2:nO:225:GLN:OE1	2.45	0.48
2:op:150:THR:OG1	2:op:220:GLY:O	2.18	0.48
2:og:280:VAL:O	2:og:289:ASN:ND2	2.41	0.48
2:pf:38:ILE:O	2:pf:38:ILE:HG13	2.11	0.48
1:pB:58:PHE:CE1	1:pB:101:VAL:HG11	2.49	0.48
3:qh:67:ARG:CA	4:qj:194:LEU:HD13	2.43	0.48
4:qk:212:PRO:HG2	4:ql:41:VAL:HG21	1.96	0.48
5:qp:250:THR:O	5:qp:253:ARG:HG2	2.13	0.48
5:qv:236:LEU:HD12	5:qx:264:GLY:O	2.13	0.48
5:qz:250:THR:O	5:qz:253:ARG:HG2	2.13	0.48
5:qF:236:LEU:HD12	5:qH:264:GLY:O	2.13	0.48
6:qG:83:LEU:HD11	6:qG:89:VAL:HG11	1.94	0.48
5:qL:250:THR:O	5:qL:253:ARG:HG2	2.13	0.48
1:ad:102:GLU:HG2	2:ob:62:GLN:OE1	2.02	0.48
2:ag:193:THR:CG2	2:oc:193:THR:CG2	2.91	0.48
2:ah:2:ALA:N	1:oY:94:GLU:HB3	2.28	0.48
2:ai:193:THR:HG23	2:ai:194:SER:N	2.28	0.48
2:ax:237:VAL:O	2:ax:237:VAL:HG12	2.12	0.48
2:aI:62:GLN:NE2	2:kg:197:LYS:HA	2.27	0.48
2:aW:64:VAL:H	2:iJ:81:GLU:HG2	1.77	0.48
2:aZ:96:LEU:HD12	2:jm:12:LEU:CD2	2.44	0.48
2:ba:117:LEU:HD21	2:ba:211:TYR:HA	1.95	0.48
2:bb:226:LEU:HD23	2:bb:227:ALA:N	2.28	0.48
2:bk:193:THR:CG2	2:dq:193:THR:CG2	2.91	0.48
1:br:58:PHE:CE1	1:br:101:VAL:HG11	2.49	0.48
2:bz:12:LEU:CD2	2:fa:96:LEU:HD12	2.44	0.48
2:bC:230:SER:HB2	2:bC:234:LEU:HD23	1.96	0.48
1:bE:94:GLU:HB3	2:dd:2:ALA:N	2.28	0.48
2:bM:61:GLY:HA3	1:hB:103:ARG:HG3	1.93	0.48
2:ca:63:ARG:NH2	2:cd:205:MET:SD	2.84	0.48
2:ca:193:THR:HG23	2:ca:194:SER:N	2.28	0.48
1:cj:58:PHE:CG	1:cj:101:VAL:HG21	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cF:221:PHE:CG	2:cF:242:VAL:HG13	2.49	0.48
1:cI:67:CYS:HA	1:cI:72:CYS:HA	1.95	0.48
2:di:226:LEU:HD23	2:di:227:ALA:N	2.28	0.48
1:dk:67:CYS:HA	1:dk:72:CYS:HA	1.95	0.48
2:dE:46:THR:HG22	2:dE:74:GLN:HG2	1.96	0.48
2:dG:294:LEU:H	2:dG:294:LEU:HD23	1.77	0.48
2:dT:177:ARG:NH1	2:dT:213:VAL:HG21	2.28	0.48
2:dX:203:VAL:HG12	2:dX:205:MET:HG3	1.95	0.48
1:ea:58:PHE:CE1	1:ea:101:VAL:HG11	2.49	0.48
1:ee:105:THR:HG21	2:ml:60:ILE:CG2	2.39	0.48
2:eh:274:ALA:CB	2:eh:297:VAL:HG21	2.44	0.48
2:ei:53:PHE:O	2:ei:255:ARG:NH2	2.43	0.48
2:ek:34:VAL:HG12	2:ek:263:LEU:HD21	1.96	0.48
1:eq:63:VAL:HG23	1:eq:99:LEU:CD1	2.42	0.48
2:eJ:44:SER:OG	2:eJ:75:ILE:O	2.21	0.48
1:eS:55:GLU:O	1:eS:105:THR:HG22	2.13	0.48
1:eS:58:PHE:CD1	1:eS:101:VAL:HG21	2.48	0.48
2:fk:193:THR:OG1	2:gI:187:ARG:NH2	2.46	0.48
2:fm:193:THR:HG23	2:fm:194:SER:N	2.28	0.48
2:fo:237:VAL:O	2:fo:237:VAL:HG12	2.12	0.48
2:fp:208:GLU:OE1	2:fp:210:ARG:NE	2.47	0.48
2:fz:62:GLN:NE2	2:nr:197:LYS:HA	2.27	0.48
2:fz:81:GLU:HG2	2:mi:64:VAL:H	1.77	0.48
2:fA:53:PHE:O	2:fA:255:ARG:NH2	2.43	0.48
2:fA:281:GLN:N	2:fA:281:GLN:OE1	2.44	0.48
2:fM:193:THR:OG1	2:lZ:187:ARG:NH2	2.46	0.48
2:fN:63:ARG:NE	2:lU:205:MET:CE	2.74	0.48
2:fO:281:GLN:OE1	2:fO:281:GLN:N	2.44	0.48
1:fT:94:GLU:HB3	2:lU:2:ALA:N	2.28	0.48
1:fW:58:PHE:CD1	1:fW:101:VAL:HG21	2.48	0.48
2:ge:34:VAL:HG12	2:ge:263:LEU:HD21	1.96	0.48
1:gk:58:PHE:CD1	1:gk:101:VAL:HG21	2.48	0.48
2:gp:64:VAL:H	2:hT:81:GLU:HG2	1.77	0.48
2:gs:34:VAL:HG12	2:gs:263:LEU:HD21	1.96	0.48
1:gM:58:PHE:CD1	1:gM:101:VAL:HG21	2.48	0.48
1:gY:58:PHE:CE1	1:gY:101:VAL:HG11	2.49	0.48
2:he:193:THR:CG2	2:lG:193:THR:CG2	2.91	0.48
2:hF:2:ALA:N	1:kI:94:GLU:HB3	2.28	0.48
2:hh:278:VAL:HG11	2:hh:295:VAL:O	2.13	0.48
2:hi:62:GLN:HE21	2:oI:197:LYS:HZ1	1.61	0.48
2:hk:226:LEU:HD23	2:hk:227:ALA:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ho:55:GLU:O	1:ho:105:THR:HG22	2.13	0.48
2:hG:192:PHE:HB2	2:hG:195:MET:HE2	1.94	0.48
2:hJ:230:SER:HB2	2:hJ:234:LEU:HD23	1.96	0.48
1:hO:58:PHE:CD1	1:hO:101:VAL:HG21	2.48	0.48
2:hX:280:VAL:O	2:hX:289:ASN:ND2	2.44	0.48
2:im:226:LEU:HD23	2:im:227:ALA:N	2.28	0.48
1:ir:58:PHE:CG	1:ir:101:VAL:HG21	2.48	0.48
2:iu:143:VAL:HG12	2:iu:145:PRO:HD2	1.95	0.48
2:iy:96:LEU:HD12	2:lt:12:LEU:CD2	2.44	0.48
2:iK:192:PHE:HB2	2:iK:195:MET:HE2	1.94	0.48
2:iM:96:LEU:HD12	2:pv:12:LEU:CD2	2.44	0.48
2:iY:103:MET:N	2:iY:103:MET:SD	2.86	0.48
1:jg:55:GLU:O	1:jg:105:THR:HG22	2.13	0.48
2:jk:46:THR:HG22	2:jk:74:GLN:HG2	1.96	0.48
2:jz:141:HIS:CD2	2:jz:150:THR:HG1	2.30	0.48
2:kf:192:PHE:CZ	2:lu:196:THR:HG21	2.42	0.48
2:kf:221:PHE:CG	2:kf:242:VAL:HG13	2.49	0.48
1:ki:67:CYS:HA	1:ki:72:CYS:HA	1.95	0.48
2:ko:104:GLN:NE2	5:qH:26:ALA:O	2.46	0.48
2:ko:143:VAL:HG12	2:ko:145:PRO:HD2	1.95	0.48
1:kv:67:CYS:HA	1:kv:72:CYS:HA	1.95	0.48
2:kP:143:VAL:HG12	2:kP:145:PRO:HD2	1.95	0.48
2:kU:208:GLU:OE1	2:kU:210:ARG:NE	2.47	0.48
2:lh:96:LEU:HD12	2:lH:12:LEU:CD2	2.44	0.48
2:li:280:VAL:O	2:li:289:ASN:ND2	2.44	0.48
1:ln:55:GLU:O	1:ln:105:THR:HG22	2.13	0.48
1:lz:58:PHE:CE1	1:lz:101:VAL:HG11	2.49	0.48
2:mj:53:PHE:O	2:mj:255:ARG:NH2	2.43	0.48
2:mk:103:MET:SD	2:mk:103:MET:N	2.85	0.48
1:mp:58:PHE:CE1	1:mp:101:VAL:HG11	2.49	0.48
2:mM:278:VAL:HG11	2:mM:295:VAL:O	2.13	0.48
1:mR:58:PHE:CE1	1:mR:101:VAL:HG11	2.49	0.48
1:mR:67:CYS:HA	1:mR:72:CYS:HA	1.95	0.48
2:nb:34:VAL:HG12	2:nb:263:LEU:HD21	1.96	0.48
1:nw:58:PHE:CG	1:nw:101:VAL:HG21	2.48	0.48
1:nI:99:LEU:HD21	1:pa:60:ARG:HH21	0.59	0.48
2:nS:100:GLY:N	2:nS:101:PRO:CD	2.75	0.48
2:ob:46:THR:HG22	2:ob:74:GLN:HG2	1.96	0.48
1:ol:63:VAL:HG23	1:ol:99:LEU:CD1	2.42	0.48
2:op:193:THR:OG1	2:qb:187:ARG:NH2	2.46	0.48
2:oq:177:ARG:NH1	2:oq:213:VAL:HG21	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oD:143:VAL:HG12	2:oD:145:PRO:HD2	1.95	0.48
2:oF:103:MET:N	2:oF:103:MET:SD	2.86	0.48
2:oH:237:VAL:O	2:oH:237:VAL:HG12	2.12	0.48
2:oJ:226:LEU:HD23	2:oJ:227:ALA:N	2.28	0.48
2:oW:203:VAL:HG12	2:oW:205:MET:HG3	1.96	0.48
2:pt:59:TRP:CH2	2:pH:199:ASP:HA	2.49	0.48
2:pu:2:ALA:N	1:pO:94:GLU:HB3	2.28	0.48
2:pv:193:THR:HG23	2:pv:194:SER:N	2.28	0.48
2:py:203:VAL:HG12	2:py:205:MET:HG3	1.96	0.48
1:pD:58:PHE:CD1	1:pD:101:VAL:HG21	2.48	0.48
1:pR:55:GLU:O	1:pR:105:THR:HG22	2.13	0.48
2:pX:224:TRP:HZ2	2:pX:242:VAL:HG11	1.75	0.48
2:pY:179:LEU:HD22	2:pY:209:TYR:HD2	1.78	0.48
3:qd:31:VAL:HB	3:qd:32:PRO:HD3	1.95	0.48
3:qf:31:VAL:HB	3:qf:32:PRO:HD3	1.95	0.48
3:qi:25:LEU:CD2	6:qq:82:VAL:HB	2.42	0.48
4:qk:214:GLN:O	4:ql:38:GLN:CG	2.57	0.48
4:qo:188:ARG:NE	4:qo:204:GLU:OE1	2.43	0.48
5:qp:264:GLY:O	5:qL:236:LEU:HD12	2.13	0.48
6:qq:133:ASP:OD1	5:qJ:42:PRO:CD	2.59	0.48
5:qr:236:LEU:HD12	5:qt:264:GLY:O	2.13	0.48
5:qr:250:THR:O	5:qr:253:ARG:HG2	2.13	0.48
5:qv:252:LEU:CD2	6:qy:126:GLN:HG2	2.36	0.48
5:qx:236:LEU:HD12	5:qz:264:GLY:O	2.13	0.48
5:qH:140:GLU:O	5:qH:151:LEU:N	2.39	0.48
6:qI:133:ASP:OD1	6:qI:134:TRP:N	2.45	0.48
5:qJ:250:THR:O	5:qJ:253:ARG:HG2	2.13	0.48
6:qK:83:LEU:HD11	6:qK:89:VAL:HG11	1.94	0.48
2:ah:64:VAL:H	2:oc:81:GLU:HG2	1.77	0.48
2:ah:177:ARG:NH1	2:ah:213:VAL:HG21	2.28	0.48
2:ah:225:GLN:OE1	2:ah:225:GLN:N	2.45	0.48
2:al:203:VAL:HG12	2:al:205:MET:HG3	1.96	0.48
1:ao:58:PHE:CE1	1:ao:101:VAL:HG11	2.49	0.48
2:av:63:ARG:NH2	2:ay:205:MET:SD	2.84	0.48
2:aN:209:TYR:OH	2:iW:93:ASP:OD2	2.22	0.48
2:aY:278:VAL:HG11	2:aY:295:VAL:O	2.13	0.48
2:ba:230:SER:HB2	2:ba:234:LEU:HD23	1.96	0.48
1:bf:58:PHE:CD1	1:bf:101:VAL:HG21	2.48	0.48
2:bk:2:ALA:N	1:dx:94:GLU:HB3	2.28	0.48
2:bm:179:LEU:HD22	2:bm:209:TYR:HD2	1.78	0.48
2:by:274:ALA:CB	2:by:297:VAL:HG21	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bC:203:VAL:HG12	2:bC:205:MET:HG3	1.96	0.48
2:bY:193:THR:OG1	2:dw:187:ARG:NH2	2.46	0.48
2:cd:221:PHE:CG	2:cd:242:VAL:HG13	2.49	0.48
2:cn:274:ALA:CB	2:cn:297:VAL:HG21	2.44	0.48
2:co:192:PHE:HB2	2:co:195:MET:HE2	1.94	0.48
1:cu:58:PHE:CE1	1:cu:101:VAL:HG11	2.49	0.48
2:cB:44:SER:OG	2:cB:75:ILE:O	2.21	0.48
2:cG:187:ARG:NH2	2:cO:193:THR:OG1	2.46	0.48
2:cP:81:GLU:HG2	2:eX:64:VAL:H	1.77	0.48
2:cU:187:ARG:NH2	2:eW:193:THR:OG1	2.46	0.48
1:cY:58:PHE:CD1	1:cY:101:VAL:HG21	2.48	0.48
2:dc:199:ASP:HA	2:eI:59:TRP:CH2	2.49	0.48
2:ds:294:LEU:H	2:ds:294:LEU:HD23	1.77	0.48
1:dz:60:ARG:HH21	1:gx:99:LEU:HD21	0.59	0.48
2:dF:193:THR:CG2	2:pf:193:THR:CG2	2.91	0.48
2:dI:96:LEU:HD12	2:gE:12:LEU:CD2	2.44	0.48
2:dJ:221:PHE:CG	2:dJ:242:VAL:HG13	2.49	0.48
2:ei:12:LEU:CD2	2:fC:96:LEU:HD12	2.44	0.48
2:ei:81:GLU:O	2:ek:57:ARG:N	2.39	0.48
2:ei:103:MET:N	2:ei:103:MET:SD	2.86	0.48
2:ek:96:LEU:HD12	2:od:12:LEU:CD2	2.44	0.48
2:el:221:PHE:CG	2:el:242:VAL:HG13	2.49	0.48
1:eo:58:PHE:CE1	1:eo:101:VAL:HG11	2.49	0.48
1:eq:55:GLU:O	1:eq:105:THR:HG22	2.13	0.48
2:eu:143:VAL:HG12	2:eu:145:PRO:HD2	1.95	0.48
2:ex:179:LEU:HD22	2:ex:209:TYR:HD2	1.78	0.48
2:ey:34:VAL:HG12	2:ey:263:LEU:HD21	1.96	0.48
2:ez:208:GLU:OE1	2:ez:210:ARG:NE	2.47	0.48
2:eA:197:LYS:HE3	1:gB:100:LYS:N	2.27	0.48
2:eM:96:LEU:HD12	2:fm:12:LEU:CD2	2.44	0.48
2:eN:221:PHE:CG	2:eN:242:VAL:HG13	2.49	0.48
1:eQ:67:CYS:HA	1:eQ:72:CYS:HA	1.96	0.48
1:ff:60:ARG:HE	1:ff:102:GLU:HB2	1.77	0.48
1:fg:55:GLU:O	1:fg:105:THR:HG22	2.13	0.48
2:fl:81:GLU:HG2	2:nA:64:VAL:H	1.77	0.48
2:fC:34:VAL:HG12	2:fC:263:LEU:HD21	1.96	0.48
2:fM:62:GLN:OE1	1:fX:102:GLU:CD	2.53	0.48
2:fM:143:VAL:HG12	2:fM:145:PRO:HD2	1.95	0.48
2:FR:203:VAL:HG12	2:FR:205:MET:HG3	1.96	0.48
2:gb:274:ALA:CB	2:gb:297:VAL:HG21	2.44	0.48
2:gc:224:TRP:HZ2	2:gc:242:VAL:HG11	1.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gg:226:LEU:HD23	2:gg:227:ALA:N	2.28	0.48
2:gQ:46:THR:HG22	2:gQ:74:GLN:HG2	1.96	0.48
2:he:46:THR:HG22	2:he:74:GLN:HG2	1.96	0.48
2:he:193:THR:OG1	2:IL:187:ARG:NH2	2.46	0.48
2:hk:187:ARG:NH2	2:kB:193:THR:OG1	2.46	0.48
2:hs:62:GLN:OE1	1:hC:102:GLU:CD	2.53	0.48
2:hJ:221:PHE:CG	2:hJ:242:VAL:HG13	2.49	0.48
2:hJ:263:LEU:HD23	2:hJ:296:GLN:NE2	2.27	0.48
2:hY:226:LEU:HD23	2:hY:227:ALA:N	2.28	0.48
1:ia:67:CYS:HA	1:ia:72:CYS:HA	1.95	0.48
2:ij:179:LEU:HD22	2:ij:209:TYR:HD2	1.78	0.48
2:ik:237:VAL:HG12	2:ik:237:VAL:O	2.12	0.48
2:iw:294:LEU:H	2:iw:294:LEU:HD23	1.77	0.48
1:iF:58:PHE:CG	1:iF:101:VAL:HG21	2.48	0.48
2:iJ:141:HIS:CD2	2:iJ:150:THR:HG1	2.31	0.48
2:jb:203:VAL:HG12	2:jb:205:MET:HG3	1.96	0.48
2:jb:221:PHE:CG	2:jb:242:VAL:HG13	2.49	0.48
1:je:67:CYS:HA	1:je:72:CYS:HA	1.96	0.48
2:jk:143:VAL:HG12	2:jk:145:PRO:HD2	1.95	0.48
2:jp:221:PHE:CG	2:jp:242:VAL:HG13	2.49	0.48
1:jt:60:ARG:HH21	1:jV:99:LEU:HD21	0.59	0.48
2:jC:34:VAL:HG12	2:jC:263:LEU:HD21	1.96	0.48
1:jF:100:LYS:CD	1:pU:100:LYS:NZ	2.71	0.48
2:jM:193:THR:OG1	2:pN:187:ARG:NH2	2.46	0.48
2:jN:225:GLN:N	2:jN:225:GLN:OE1	2.45	0.48
2:jR:203:VAL:HG12	2:jR:205:MET:HG3	1.96	0.48
2:jR:230:SER:HB2	2:jR:234:LEU:HD23	1.96	0.48
1:jX:58:PHE:CG	1:jX:101:VAL:HG21	2.48	0.48
2:ka:46:THR:HG22	2:ka:74:GLN:HG2	1.96	0.48
2:kp:86:VAL:O	2:kp:202:GLN:N	2.46	0.48
2:kp:103:MET:N	2:kp:103:MET:SD	2.86	0.48
2:kH:187:ARG:NH2	2:kP:193:THR:OG1	2.46	0.48
1:kJ:58:PHE:CE1	1:kJ:101:VAL:HG11	2.49	0.48
2:kQ:177:ARG:NH1	2:kQ:213:VAL:HG21	2.28	0.48
2:kU:203:VAL:HG12	2:kU:205:MET:HG3	1.96	0.48
1:la:58:PHE:CG	1:la:101:VAL:HG21	2.48	0.48
2:lf:53:PHE:O	2:lf:255:ARG:NH2	2.43	0.48
2:lf:193:THR:HG23	2:lf:194:SER:N	2.28	0.48
2:lt:192:PHE:HB2	2:lt:195:MET:HE2	1.94	0.48
2:lv:34:VAL:HG12	2:lv:263:LEU:HD21	1.96	0.48
2:lG:225:GLN:N	2:lG:225:GLN:OE1	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IK:280:VAL:O	2:IK:289:ASN:ND2	2.44	0.48
2:IL:226:LEU:HD23	2:IL:227:ALA:N	2.28	0.48
1:IN:58:PHE:CE1	1:IN:101:VAL:HG11	2.49	0.48
1:IQ:58:PHE:CG	1:IQ:101:VAL:HG21	2.48	0.48
2:IV:294:LEU:H	2:IV:294:LEU:HD23	1.77	0.48
2:IW:179:LEU:HD22	2:IW:209:TYR:HD2	1.78	0.48
1:md:58:PHE:CD1	1:md:101:VAL:HG21	2.48	0.48
2:mh:46:THR:HG22	2:mh:74:GLN:HG2	1.96	0.48
2:mh:143:VAL:HG12	2:mh:145:PRO:HD2	1.95	0.48
2:mi:177:ARG:NH1	2:mi:213:VAL:HG21	2.28	0.48
2:mk:179:LEU:HD22	2:mk:209:TYR:HD2	1.78	0.48
2:mm:221:PHE:CG	2:mm:242:VAL:HG13	2.49	0.48
2:mz:34:VAL:HG12	2:mz:263:LEU:HD21	1.96	0.48
2:mA:263:LEU:HD23	2:mA:296:GLN:NE2	2.27	0.48
2:mK:177:ARG:NH1	2:mK:213:VAL:HG21	2.28	0.48
2:nc:221:PHE:CG	2:nc:242:VAL:HG13	2.49	0.48
1:nf:67:CYS:HA	1:nf:72:CYS:HA	1.95	0.48
2:nl:193:THR:OG1	2:oJ:187:ARG:NH2	2.46	0.48
2:np:34:VAL:HG12	2:np:263:LEU:HD21	1.96	0.48
2:nq:280:VAL:O	2:nq:289:ASN:ND2	2.44	0.48
2:nz:46:THR:HG22	2:nz:74:GLN:HG2	1.96	0.48
2:nE:171:TYR:OH	2:nE:175:THR:OG1	2.12	0.48
2:nO:193:THR:CG2	2:ob:193:THR:CG2	2.91	0.48
2:nO:274:ALA:CB	2:nO:297:VAL:HG21	2.44	0.48
1:nX:58:PHE:CD1	1:nX:101:VAL:HG21	2.48	0.48
2:op:193:THR:CG2	2:pW:193:THR:CG2	2.91	0.48
1:ox:58:PHE:CE1	1:ox:101:VAL:HG11	2.49	0.48
1:oL:67:CYS:HA	1:oL:72:CYS:HA	1.95	0.48
2:oT:63:ARG:NH2	2:oW:205:MET:SD	2.84	0.48
2:oT:103:MET:N	2:oT:103:MET:SD	2.86	0.48
2:pv:192:PHE:HB2	2:pv:195:MET:HE2	1.94	0.48
2:pM:280:VAL:O	2:pM:289:ASN:ND2	2.44	0.48
2:pW:274:ALA:CB	2:pW:297:VAL:HG21	2.44	0.48
3:qi:82:VAL:HG13	3:qi:83:HIS:N	2.29	0.48
3:qi:102:LEU:O	3:qi:106:VAL:HG23	2.13	0.48
4:ql:212:PRO:HG2	4:qm:41:VAL:HG21	1.96	0.48
6:qy:133:ASP:OD1	6:qy:134:TRP:N	2.45	0.48
2:al:230:SER:HB2	2:al:234:LEU:HD23	1.96	0.48
2:au:193:THR:OG1	2:bQ:187:ARG:NH2	2.46	0.48
1:aB:58:PHE:CE1	1:aB:101:VAL:HG11	2.49	0.48
2:aJ:12:LEU:CD2	2:kT:96:LEU:HD12	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aM:221:PHE:CG	2:aM:242:VAL:HG13	2.49	0.48
1:aP:58:PHE:CE1	1:aP:101:VAL:HG11	2.49	0.48
1:bc:94:GLU:HB3	2:iJ:2:ALA:N	2.28	0.48
2:bl:192:PHE:HB2	2:bl:195:MET:HE2	1.94	0.48
2:bz:193:THR:HG23	2:bz:194:SER:N	2.28	0.48
1:bJ:100:LYS:HE3	1:lN:100:LYS:HB2	1.92	0.48
2:bL:199:ASP:HA	2:hF:59:TRP:CH2	2.49	0.48
2:bM:12:LEU:CD2	2:gU:96:LEU:HD12	2.44	0.48
2:bP:203:VAL:HG12	2:bP:205:MET:HG3	1.96	0.48
2:bP:221:PHE:CG	2:bP:242:VAL:HG13	2.49	0.48
2:bQ:226:LEU:HD23	2:bQ:227:ALA:N	2.28	0.48
1:bX:99:LEU:HD23	1:dx:102:GLU:CG	2.19	0.48
1:ck:100:LYS:HE3	1:ll:100:LYS:HB2	1.92	0.48
2:co:12:LEU:CD2	2:jo:96:LEU:HD12	2.44	0.48
2:cp:196:THR:HG21	2:py:192:PHE:CZ	2.42	0.48
2:cq:107:GLY:CA	2:cq:184:TYR:HE1	2.22	0.48
1:cw:63:VAL:HG23	1:cw:99:LEU:CD1	2.42	0.48
2:cB:193:THR:CG2	2:cO:193:THR:CG2	2.91	0.48
2:cC:192:PHE:HB2	2:cC:195:MET:HE2	1.94	0.48
2:cE:96:LEU:HD12	2:pJ:12:LEU:CD2	2.44	0.48
1:cZ:58:PHE:CG	1:cZ:101:VAL:HG21	2.48	0.48
2:dd:274:ALA:CB	2:dd:297:VAL:HG21	2.44	0.48
2:dh:280:VAL:O	2:dh:289:ASN:ND2	2.44	0.48
1:dm:63:VAL:HG23	1:dm:99:LEU:CD1	2.42	0.48
2:dq:143:VAL:HG12	2:dq:145:PRO:HD2	1.95	0.48
2:dt:179:LEU:HD22	2:dt:209:TYR:HD2	1.78	0.48
2:du:237:VAL:O	2:du:237:VAL:HG12	2.12	0.48
2:dF:2:ALA:N	1:pm:94:GLU:HB3	2.28	0.48
2:ej:278:VAL:HG11	2:ej:295:VAL:O	2.13	0.48
2:em:226:LEU:HD23	2:em:227:ALA:N	2.28	0.48
2:eu:59:TRP:CH2	2:gC:199:ASP:HA	2.49	0.48
2:ev:193:THR:CG2	2:gC:193:THR:CG2	2.91	0.48
1:eC:67:CYS:HA	1:eC:72:CYS:HA	1.96	0.48
2:eI:46:THR:HG22	2:eI:74:GLN:HG2	1.96	0.48
2:eY:192:PHE:HB2	2:eY:195:MET:HE2	1.94	0.48
2:fo:34:VAL:HG12	2:fo:263:LEU:HD21	1.96	0.48
2:fE:226:LEU:HD23	2:fE:227:ALA:N	2.28	0.48
2:fM:150:THR:OG1	2:fM:220:GLY:O	2.18	0.48
2:fP:103:MET:N	2:fP:103:MET:SD	2.85	0.48
2:fQ:107:GLY:CA	2:fQ:184:TYR:HE1	2.22	0.48
2:fR:208:GLU:OE1	2:fR:210:ARG:NE	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fU:58:PHE:CE1	1:fU:101:VAL:HG11	2.49	0.48
1:fV:99:LEU:HD21	1:mc:60:ARG:HH21	0.59	0.48
2:gs:96:LEU:HD12	2:gS:12:LEU:CD2	2.44	0.48
2:gt:221:PHE:CG	2:gt:242:VAL:HG13	2.49	0.48
2:gC:46:THR:HG22	2:gC:74:GLN:HG2	1.96	0.48
2:gD:225:GLN:N	2:gD:225:GLN:OE1	2.45	0.48
2:gS:192:PHE:HB2	2:gS:195:MET:HE2	1.94	0.48
2:gV:208:GLU:OE1	2:gV:210:ARG:NE	2.47	0.48
2:ht:193:THR:HG23	2:ht:194:SER:N	2.28	0.48
1:hB:63:VAL:HG23	1:hB:99:LEU:CD1	2.42	0.48
2:hF:46:THR:HG22	2:hF:74:GLN:HG2	1.96	0.48
2:hI:96:LEU:HD12	2:IV:12:LEU:CD2	2.44	0.48
1:io:58:PHE:CE1	1:io:101:VAL:HG11	2.49	0.48
2:jb:230:SER:HB2	2:jb:234:LEU:HD23	1.96	0.48
2:jk:59:TRP:CH2	2:lr:199:ASP:HA	2.49	0.48
2:jl:193:THR:CG2	2:lr:193:THR:CG2	2.91	0.48
2:jm:193:THR:HG23	2:jm:194:SER:N	2.28	0.48
2:jp:117:LEU:HD21	2:jp:211:TYR:HA	1.95	0.48
2:jD:221:PHE:CG	2:jD:242:VAL:HG13	2.49	0.48
2:jO:12:LEU:CD2	2:oV:96:LEU:HD12	2.44	0.48
2:jO:86:VAL:O	2:jO:202:GLN:N	2.46	0.48
2:jR:117:LEU:HD21	2:jR:211:TYR:HA	1.95	0.48
2:ka:143:VAL:HG12	2:ka:145:PRO:HD2	1.95	0.48
2:kb:282:ARG:NH2	2:ls:282:ARG:HH11	1.93	0.48
2:ke:34:VAL:HG12	2:ke:263:LEU:HD21	1.96	0.48
2:kC:274:ALA:CB	2:kC:297:VAL:HG21	2.44	0.48
2:kD:86:VAL:O	2:kD:202:GLN:N	2.46	0.48
2:kQ:44:SER:OG	2:kQ:75:ILE:O	2.21	0.48
2:kT:34:VAL:HG12	2:kT:263:LEU:HD21	1.96	0.48
2:ld:150:THR:OG1	2:ld:220:GLY:O	2.18	0.48
2:le:63:ARG:NE	2:mK:205:MET:CE	2.74	0.48
1:ll:67:CYS:HA	1:ll:72:CYS:HA	1.95	0.48
2:lw:221:PHE:CG	2:lw:242:VAL:HG13	2.49	0.48
2:lF:193:THR:OG1	2:nd:187:ARG:NH2	2.46	0.48
2:IJ:96:LEU:HD12	2:oF:12:LEU:CD2	2.44	0.48
2:IV:86:VAL:O	2:IV:202:GLN:N	2.46	0.48
2:IW:278:VAL:HG11	2:IW:295:VAL:O	2.13	0.48
1:md:103:ARG:HG3	2:mx:61:GLY:HA3	1.93	0.48
2:mm:208:GLU:OE1	2:mm:210:ARG:NE	2.47	0.48
2:mn:197:LYS:HE3	1:mu:100:LYS:N	2.27	0.48
2:mw:2:ALA:N	1:oK:94:GLU:HB3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mw:274:ALA:CB	2:mw:297:VAL:HG21	2.44	0.48
2:mL:103:MET:SD	2:mL:103:MET:N	2.86	0.48
2:mL:192:PHE:HB2	2:mL:195:MET:HE2	1.94	0.48
2:nd:226:LEU:HD23	2:nd:227:ALA:N	2.28	0.48
2:nl:143:VAL:HG12	2:nl:145:PRO:HD2	1.95	0.48
1:nv:55:GLU:O	1:nv:105:THR:HG22	2.13	0.48
1:nJ:55:GLU:O	1:nJ:105:THR:HG22	2.13	0.48
1:oj:58:PHE:CE1	1:oj:101:VAL:HG11	2.49	0.48
1:ok:60:ARG:HH21	1:oM:99:LEU:HD21	0.59	0.48
2:op:143:VAL:HG12	2:op:145:PRO:HD2	1.95	0.48
2:or:103:MET:N	2:or:103:MET:SD	2.86	0.48
1:oL:58:PHE:CE1	1:oL:101:VAL:HG11	2.49	0.48
2:oS:177:ARG:NH1	2:oS:213:VAL:HG21	2.28	0.48
2:pk:221:PHE:CG	2:pk:242:VAL:HG13	2.49	0.48
2:py:230:SER:HB2	2:py:234:LEU:HD23	1.96	0.48
2:pY:278:VAL:HG11	2:pY:295:VAL:O	2.13	0.48
3:qd:15:ILE:HA	3:qd:18:ILE:HB	1.95	0.48
3:qd:82:VAL:HG13	3:qd:83:HIS:N	2.29	0.48
3:qe:15:ILE:HA	3:qe:18:ILE:HB	1.95	0.48
3:qh:66:GLN:O	4:qj:10:GLN:HG3	2.13	0.48
4:qj:212:PRO:HG2	4:qk:41:VAL:HG21	1.96	0.48
4:qm:238:THR:CG2	4:qn:50:TYR:OH	2.52	0.48
6:qy:131:ARG:HG2	6:qy:131:ARG:O	2.14	0.48
5:qz:248:LYS:HZ1	6:qC:121:VAL:HG11	1.77	0.48
5:qB:236:LEU:HD12	5:qD:264:GLY:O	2.13	0.48
5:qJ:250:THR:HG21	6:qK:125:VAL:HG22	1.94	0.48
1:ac:63:VAL:HG23	1:ac:99:LEU:CD1	2.42	0.48
2:ak:34:VAL:HG12	2:ak:263:LEU:HD21	1.96	0.48
2:al:208:GLU:OE1	2:al:210:ARG:NE	2.47	0.48
1:aD:55:GLU:O	1:aD:105:THR:HG22	2.13	0.48
2:aH:199:ASP:HA	2:ka:59:TRP:CH2	2.49	0.48
2:aI:141:HIS:CD2	2:aI:150:THR:HG1	2.31	0.48
2:aL:62:GLN:HE21	2:nc:197:LYS:HZ1	1.61	0.48
2:aW:225:GLN:N	2:aW:225:GLN:OE1	2.45	0.48
2:aX:53:PHE:O	2:aX:255:ARG:NH2	2.43	0.48
2:ba:221:PHE:CG	2:ba:242:VAL:HG13	2.49	0.48
1:bd:58:PHE:CE1	1:bd:101:VAL:HG11	2.49	0.48
2:bk:44:SER:OG	2:bk:75:ILE:O	2.21	0.48
2:bk:177:ARG:NH1	2:bk:213:VAL:HG21	2.28	0.48
2:bl:86:VAL:O	2:bl:202:GLN:N	2.46	0.48
1:bK:70:GLY:O	6:qw:117:LYS:NZ	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bO:34:VAL:HG12	2:bO:263:LEU:HD21	1.96	0.48
2:bO:96:LEU:HD12	2:gq:12:LEU:CD2	2.44	0.48
2:bP:230:SER:HB2	2:bP:234:LEU:HD23	1.96	0.48
2:bY:199:ASP:HA	2:dq:59:TRP:CH2	2.49	0.48
2:bZ:193:THR:CG2	2:il:193:THR:CG2	2.91	0.48
2:cd:280:VAL:O	2:cd:289:ASN:ND2	2.44	0.48
1:cg:67:CYS:HA	1:cg:72:CYS:HA	1.95	0.48
1:ci:55:GLU:O	1:ci:105:THR:HG22	2.13	0.48
2:cp:103:MET:N	2:cp:103:MET:SD	2.85	0.48
2:cq:62:GLN:HE21	2:lw:197:LYS:HZ1	1.61	0.48
2:cr:221:PHE:CG	2:cr:242:VAL:HG13	2.49	0.48
2:cs:185:GLN:O	2:cs:205:MET:N	2.43	0.48
1:cw:103:ARG:NH1	2:cQ:61:GLY:CA	2.70	0.48
2:cD:179:LEU:HD22	2:cD:209:TYR:HD2	1.78	0.48
2:cF:192:PHE:CZ	2:pi:196:THR:HG21	2.42	0.48
2:cF:208:GLU:OE1	2:cF:210:ARG:NE	2.47	0.48
2:cF:230:SER:HB2	2:cF:234:LEU:HD23	1.96	0.48
1:cI:58:PHE:CE1	1:cI:101:VAL:HG11	2.49	0.48
1:dm:55:GLU:O	1:dm:105:THR:HG22	2.13	0.48
2:dE:59:TRP:CH2	2:pf:199:ASP:HA	2.49	0.48
2:dJ:230:SER:HB2	2:dJ:234:LEU:HD23	1.96	0.48
1:dP:102:GLU:CD	2:oR:62:GLN:OE1	2.53	0.48
2:dU:294:LEU:H	2:dU:294:LEU:HD23	1.77	0.48
2:eg:93:ASP:OD2	2:nF:209:TYR:OH	2.22	0.48
2:ev:2:ALA:N	1:gJ:94:GLU:HB3	2.28	0.48
2:ew:12:LEU:CD2	2:nR:96:LEU:HD12	2.44	0.48
2:ez:230:SER:HB2	2:ez:234:LEU:HD23	1.96	0.48
2:eK:144:TYR:CG	2:eK:145:PRO:HD2	2.49	0.48
2:fa:34:VAL:HG12	2:fa:263:LEU:HD21	1.96	0.48
1:fe:58:PHE:CE1	1:fe:101:VAL:HG11	2.49	0.48
1:fv:58:PHE:CG	1:fv:101:VAL:HG21	2.48	0.48
2:fy:46:THR:HG22	2:fy:74:GLN:HG2	1.96	0.48
2:fz:193:THR:CG2	2:mh:193:THR:CG2	2.91	0.48
2:fB:278:VAL:HG11	2:fB:295:VAL:O	2.13	0.48
2:fD:117:LEU:HD21	2:fD:211:TYR:HA	1.95	0.48
1:fI:103:ARG:HG3	2:gc:61:GLY:HA3	1.93	0.48
2:ge:96:LEU:HD12	2:nB:12:LEU:CD2	2.44	0.48
2:gg:187:ARG:NH2	2:ig:193:THR:OG1	2.46	0.48
1:gi:67:CYS:HA	1:gi:72:CYS:HA	1.95	0.48
1:gy:55:GLU:O	1:gy:105:THR:HG22	2.13	0.48
2:gH:208:GLU:OE1	2:gH:210:ARG:NE	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gK:67:CYS:HA	1:gK:72:CYS:HA	1.95	0.48
2:he:59:TRP:CH2	2:kB:199:ASP:HA	2.49	0.48
2:hs:46:THR:HG22	2:hs:74:GLN:HG2	1.96	0.48
2:hw:230:SER:HB2	2:hw:234:LEU:HD23	1.96	0.48
1:hC:58:PHE:CG	1:hC:101:VAL:HG21	2.48	0.48
2:hF:40:SER:C	5:qv:51:GLU:OE2	2.57	0.48
2:hG:281:GLN:N	2:hG:281:GLN:OE1	2.44	0.48
1:hM:58:PHE:CE1	1:hM:101:VAL:HG11	2.49	0.48
2:hT:177:ARG:NH1	2:hT:213:VAL:HG21	2.28	0.48
2:il:230:SER:HB2	2:il:234:LEU:HD23	1.96	0.48
2:iu:46:THR:HG22	2:iu:74:GLN:HG2	1.96	0.48
2:iu:199:ASP:HA	2:jM:59:TRP:CH2	2.49	0.48
2:iz:117:LEU:HD21	2:iz:211:TYR:HA	1.95	0.48
1:iQ:58:PHE:CE1	1:iQ:101:VAL:HG11	2.49	0.48
2:jk:43:ALA:O	2:jk:44:SER:OG	2.20	0.48
2:jl:205:MET:CE	2:ls:63:ARG:NE	2.74	0.48
2:jm:63:ARG:NH2	2:jp:205:MET:SD	2.84	0.48
2:jD:203:VAL:HG12	2:jD:205:MET:HG3	1.96	0.48
2:jO:81:GLU:O	2:jQ:57:ARG:N	2.39	0.48
1:jT:94:GLU:HB3	2:pI:2:ALA:N	2.28	0.48
2:kc:144:TYR:CG	2:kc:145:PRO:HD2	2.49	0.48
2:ks:117:LEU:HD21	2:ks:211:TYR:HA	1.95	0.48
2:kG:221:PHE:CG	2:kG:242:VAL:HG13	2.49	0.48
2:le:274:ALA:CB	2:le:297:VAL:HG21	2.44	0.48
1:lP:55:GLU:O	1:lP:105:THR:HG22	2.13	0.48
2:lV:281:GLN:OE1	2:lV:281:GLN:N	2.44	0.48
2:lX:34:VAL:HG12	2:lX:263:LEU:HD21	1.96	0.48
1:mc:99:LEU:HD21	1:nu:60:ARG:HH21	0.59	0.48
2:mx:86:VAL:O	2:mx:202:GLN:N	2.46	0.48
2:mA:208:GLU:OE1	2:mA:210:ARG:NE	2.47	0.48
2:mM:103:MET:SD	2:mM:103:MET:N	2.85	0.48
2:nc:208:GLU:OE1	2:nc:210:ARG:NE	2.47	0.48
2:nn:192:PHE:HB2	2:nn:195:MET:HE2	1.94	0.48
2:nO:205:MET:CE	2:oc:63:ARG:NE	2.74	0.48
2:nP:294:LEU:H	2:nP:294:LEU:HD23	1.77	0.48
1:oj:67:CYS:HA	1:oj:72:CYS:HA	1.95	0.48
1:ol:58:PHE:CD1	1:ol:101:VAL:HG21	2.48	0.48
1:ow:94:GLU:HB3	2:pW:2:ALA:N	2.28	0.48
2:oI:230:SER:HB2	2:oI:234:LEU:HD23	1.96	0.48
2:oU:179:LEU:HD22	2:oU:209:TYR:HD2	1.78	0.48
1:pb:58:PHE:CD1	1:pb:101:VAL:HG21	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:pc:58:PHE:CG	1:pc:101:VAL:HG21	2.48	0.48
1:pq:58:PHE:CG	1:pq:101:VAL:HG21	2.48	0.48
2:pu:193:THR:CG2	2:pH:193:THR:CG2	2.91	0.48
2:py:208:GLU:OE1	2:py:210:ARG:NE	2.47	0.48
2:py:221:PHE:CG	2:py:242:VAL:HG13	2.49	0.48
1:pP:67:CYS:HA	1:pP:72:CYS:HA	1.95	0.48
2:pV:143:VAL:HG12	2:pV:145:PRO:HD2	1.95	0.48
2:pZ:237:VAL:O	2:pZ:237:VAL:HG12	2.12	0.48
2:qa:208:GLU:OE1	2:qa:210:ARG:NE	2.47	0.48
2:qb:226:LEU:HD23	2:qb:227:ALA:N	2.28	0.48
3:qe:66:GLN:CA	4:qm:8:TYR:CD2	2.94	0.48
3:qe:82:VAL:HG13	3:qe:83:HIS:N	2.29	0.48
3:qg:67:ARG:HB3	4:qk:194:LEU:HD11	1.96	0.48
3:qh:82:VAL:HG13	3:qh:83:HIS:N	2.29	0.48
3:qi:67:ARG:N	4:qo:8:TYR:CD2	2.81	0.48
3:qi:117:ASP:O	4:qj:6:TYR:CE1	2.67	0.48
4:ql:83:THR:HG21	4:ql:228:MET:HE1	1.96	0.48
4:qm:83:THR:HG21	4:qm:228:MET:HE1	1.96	0.48
5:qt:42:PRO:CD	6:qy:133:ASP:OD1	2.59	0.48
5:qt:250:THR:O	5:qt:253:ARG:HG2	2.13	0.48
5:qv:140:GLU:O	5:qv:151:LEU:N	2.39	0.48
6:qK:112:LEU:CD2	6:qM:58:LEU:HD12	1.00	0.48
2:ag:199:ASP:HA	2:ob:59:TRP:CH2	2.49	0.48
2:ak:96:LEU:HD12	2:mL:12:LEU:CD2	2.44	0.48
2:am:187:ARG:NH2	2:oR:193:THR:OG1	2.46	0.48
2:av:86:VAL:O	2:av:202:GLN:N	2.46	0.48
2:aH:193:THR:OG1	2:kg:187:ARG:NH2	2.46	0.48
2:aM:117:LEU:HD21	2:aM:211:TYR:HA	1.95	0.48
2:aN:185:GLN:O	2:aN:205:MET:N	2.43	0.48
2:bb:185:GLN:O	2:bb:205:MET:N	2.43	0.48
2:bp:144:TYR:HH	2:bp:254:GLY:H	1.60	0.48
2:by:257:LEU:HD22	2:dd:24:LEU:HD21	1.96	0.48
1:bS:58:PHE:CE1	1:bS:101:VAL:HG11	2.49	0.48
2:bY:143:VAL:HG12	2:bY:145:PRO:HD2	1.95	0.48
2:cm:199:ASP:HA	2:iu:59:TRP:CH2	2.49	0.48
2:co:193:THR:HG23	2:co:194:SER:N	2.28	0.48
2:cr:230:SER:HB2	2:cr:234:LEU:HD23	1.96	0.48
1:cu:67:CYS:HA	1:cu:72:CYS:HA	1.95	0.48
1:cx:58:PHE:CG	1:cx:101:VAL:HG21	2.48	0.48
1:cx:102:GLU:HG2	2:pf:62:GLN:OE1	2.02	0.48
2:cP:193:THR:CG2	2:eW:193:THR:CG2	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cS:96:LEU:HD12	2:iK:12:LEU:CD2	2.44	0.48
2:de:144:TYR:CG	2:de:145:PRO:HD2	2.49	0.48
2:dh:221:PHE:CG	2:dh:242:VAL:HG13	2.49	0.48
2:dh:230:SER:HB2	2:dh:234:LEU:HD23	1.96	0.48
2:dv:230:SER:HB2	2:dv:234:LEU:HD23	1.96	0.48
2:dw:185:GLN:O	2:dw:205:MET:N	2.43	0.48
2:dJ:192:PHE:CZ	2:eZ:196:THR:HG21	2.42	0.48
2:dT:274:ALA:CB	2:dT:297:VAL:HG21	2.44	0.48
2:dX:117:LEU:HD21	2:dX:211:TYR:HA	1.95	0.48
2:eg:62:GLN:OE1	1:er:102:GLU:CD	2.53	0.48
2:eg:143:VAL:HG12	2:eg:145:PRO:HD2	1.95	0.48
1:en:100:LYS:HG2	1:et:100:LYS:HZ1	1.63	0.48
1:eB:102:GLU:CG	1:gB:99:LEU:HD23	2.19	0.48
2:eJ:177:ARG:NH1	2:eJ:213:VAL:HG21	2.28	0.48
1:fH:99:LEU:HD21	1:gZ:60:ARG:HH21	0.59	0.48
1:fL:100:LYS:HZ1	1:ma:100:LYS:HD3	1.74	0.48
2:fN:274:ALA:CB	2:fN:297:VAL:HG21	2.44	0.48
2:fQ:34:VAL:HG12	2:fQ:263:LEU:HD21	1.96	0.48
2:ga:43:ALA:O	2:ga:44:SER:OG	2.20	0.48
1:gw:67:CYS:HA	1:gw:72:CYS:HA	1.96	0.48
2:gC:43:ALA:O	2:gC:44:SER:OG	2.20	0.48
1:gN:102:GLU:CD	2:ig:62:GLN:OE1	2.53	0.48
2:gQ:237:VAL:O	2:gQ:237:VAL:HG12	2.14	0.48
2:gT:278:VAL:HG11	2:gT:295:VAL:O	2.13	0.48
2:gV:117:LEU:HD21	2:gV:211:TYR:HA	1.95	0.48
1:gX:94:GLU:HB3	2:ih:2:ALA:N	2.28	0.48
2:hj:221:PHE:CG	2:hj:242:VAL:HG13	2.49	0.48
1:hm:99:LEU:HD11	1:iU:102:GLU:CG	2.42	0.48
2:hv:96:LEU:HD12	2:kR:12:LEU:CD2	2.44	0.48
1:hD:100:LYS:HE3	1:kJ:100:LYS:HB2	1.92	0.48
2:ih:274:ALA:CB	2:ih:297:VAL:HG21	2.44	0.48
2:iu:237:VAL:HG12	2:iu:237:VAL:O	2.14	0.48
2:iv:274:ALA:CB	2:iv:297:VAL:HG21	2.44	0.48
2:iJ:274:ALA:CB	2:iJ:297:VAL:HG21	2.44	0.48
2:iY:12:LEU:CD2	2:kr:96:LEU:HD12	2.44	0.48
2:jc:185:GLN:O	2:jc:205:MET:N	2.43	0.48
2:jm:86:VAL:O	2:jm:202:GLN:N	2.46	0.48
2:jQ:226:LEU:HD23	2:jQ:227:ALA:N	2.28	0.48
1:jx:100:LYS:N	2:lJ:197:LYS:HE3	2.27	0.48
2:jy:62:GLN:OE1	1:pS:102:GLU:HG2	2.02	0.48
2:jy:150:THR:OG1	2:jy:220:GLY:O	2.18	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jz:274:ALA:CB	2:jz:297:VAL:HG21	2.44	0.48
2:jA:53:PHE:O	2:jA:255:ARG:NH2	2.43	0.48
2:jD:117:LEU:HD21	2:jD:211:TYR:HA	1.95	0.48
1:jF:94:GLU:HB3	2:le:2:ALA:N	2.28	0.48
1:jJ:58:PHE:CG	1:jJ:101:VAL:HG21	2.48	0.48
2:jM:193:THR:CG2	2:pI:193:THR:CG2	2.91	0.48
1:jZ:56:GLY:O	1:jZ:57:VAL:HG23	2.14	0.48
2:kS:278:VAL:HG11	2:kS:295:VAL:O	2.13	0.48
1:kY:82:ASP:OD1	1:kY:83:GLY:N	2.41	0.48
1:lB:58:PHE:CD1	1:lB:101:VAL:HG21	2.48	0.48
2:lF:199:ASP:HA	2:mX:59:TRP:CH2	2.49	0.48
2:lG:274:ALA:CB	2:lG:297:VAL:HG21	2.44	0.48
2:lK:208:GLU:OE1	2:lK:210:ARG:NE	2.47	0.48
1:me:58:PHE:CG	1:me:101:VAL:HG21	2.48	0.48
2:mi:81:GLU:HG2	2:mw:64:VAL:H	1.77	0.48
2:mm:203:VAL:HG12	2:mm:205:MET:HG3	1.96	0.48
2:mn:187:ARG:NH2	2:mv:193:THR:OG1	2.46	0.48
2:mw:225:GLN:OE1	2:mw:225:GLN:N	2.45	0.48
2:mO:219:VAL:HG22	2:mO:219:VAL:O	2.12	0.48
2:mO:221:PHE:CG	2:mO:242:VAL:HG13	2.49	0.48
2:mX:143:VAL:HG12	2:mX:145:PRO:HD2	1.95	0.48
2:mY:225:GLN:N	2:mY:225:GLN:OE1	2.45	0.48
2:nB:281:GLN:OE1	2:nB:281:GLN:N	2.44	0.48
2:nP:12:LEU:CD2	2:pj:96:LEU:HD12	2.44	0.48
2:oc:274:ALA:CB	2:oc:297:VAL:HG21	2.44	0.48
2:od:144:TYR:CG	2:od:145:PRO:HD2	2.49	0.48
2:og:208:GLU:OE1	2:og:210:ARG:NE	2.47	0.48
2:og:221:PHE:CG	2:og:242:VAL:HG13	2.49	0.48
2:ou:117:LEU:HD21	2:ou:211:TYR:HA	1.95	0.48
2:oE:225:GLN:OE1	2:oE:225:GLN:N	2.45	0.48
2:ol:221:PHE:CG	2:ol:242:VAL:HG13	2.49	0.48
2:pi:179:LEU:HD22	2:pi:209:TYR:HD2	1.78	0.48
2:pk:117:LEU:HD21	2:pk:211:TYR:HA	1.95	0.48
2:pk:230:SER:HB2	2:pk:234:LEU:HD23	1.96	0.48
2:pu:274:ALA:CB	2:pu:297:VAL:HG21	2.44	0.48
2:pw:278:VAL:HG11	2:pw:295:VAL:O	2.13	0.48
2:py:117:LEU:HD21	2:py:211:TYR:HA	1.95	0.48
1:pP:58:PHE:CE1	1:pP:101:VAL:HG11	2.49	0.48
2:pW:177:ARG:NH1	2:pW:213:VAL:HG21	2.28	0.48
2:qa:221:PHE:CG	2:qa:242:VAL:HG13	2.49	0.48
3:qd:141:LEU:HD23	3:qd:143:PHE:HE2	1.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:qj:245:ASP:CB	4:qo:89:VAL:HG22	2.40	0.48
5:qx:380:MET:CE	5:qx:403:LEU:HD21	2.44	0.48
5:qD:250:THR:HG21	6:qE:125:VAL:HG22	1.94	0.48
5:qH:250:THR:O	5:qH:253:ARG:HG2	2.13	0.48
5:qH:398:TRP:CE3	5:qJ:405:ILE:HD12	2.49	0.48
6:qK:133:ASP:OD1	6:qK:134:TRP:N	2.45	0.48
2:ag:46:THR:HG22	2:ag:74:GLN:HG2	1.96	0.48
2:ag:59:TRP:CH2	2:or:199:ASP:HA	2.49	0.48
2:ai:12:LEU:CD2	2:np:96:LEU:HD12	2.44	0.48
2:al:117:LEU:HD21	2:al:211:TYR:HA	1.95	0.48
2:am:226:LEU:HD23	2:am:227:ALA:N	2.28	0.48
2:av:12:LEU:CD2	2:hW:96:LEU:HD12	2.44	0.48
2:ax:96:LEU:HD12	2:ds:12:LEU:CD2	2.44	0.48
2:aH:6:PRO:HA	2:aH:9:ILE:HG22	1.96	0.48
1:aS:58:PHE:CG	1:aS:101:VAL:HG21	2.48	0.48
2:aV:59:TRP:CH2	2:bj:199:ASP:HA	2.49	0.48
2:aW:81:GLU:HG2	2:bk:64:VAL:H	1.77	0.48
2:aW:177:ARG:NH1	2:aW:213:VAL:HG21	2.28	0.48
2:aW:274:ALA:CB	2:aW:297:VAL:HG21	2.44	0.48
2:aX:61:GLY:HA3	1:iE:103:ARG:HG3	1.93	0.48
2:bj:6:PRO:HA	2:bj:9:ILE:HG22	1.96	0.48
1:bw:56:GLY:O	1:bw:57:VAL:HG23	2.14	0.48
2:by:177:ARG:NH1	2:by:213:VAL:HG21	2.28	0.48
2:bC:221:PHE:CG	2:bC:242:VAL:HG13	2.49	0.48
1:bF:58:PHE:CE1	1:bF:101:VAL:HG11	2.49	0.48
1:bF:67:CYS:HA	1:bF:72:CYS:HA	1.95	0.48
2:bL:143:VAL:HG12	2:bL:145:PRO:HD2	1.95	0.48
1:bU:63:VAL:HG23	1:bU:99:LEU:CD1	2.42	0.48
2:cc:60:ILE:HG23	2:cc:60:ILE:O	2.14	0.48
2:cm:46:THR:HG22	2:cm:74:GLN:HG2	1.96	0.48
1:cv:102:GLU:OE1	1:pC:99:LEU:CA	2.28	0.48
2:cU:226:LEU:HD23	2:cU:227:ALA:N	2.28	0.48
2:dd:64:VAL:H	2:eJ:81:GLU:HG2	1.77	0.48
2:dv:203:VAL:HG12	2:dv:205:MET:HG3	1.96	0.48
1:dD:56:GLY:O	1:dD:57:VAL:HG23	2.14	0.48
2:dH:278:VAL:HG11	2:dH:295:VAL:O	2.13	0.48
1:dO:55:GLU:O	1:dO:105:THR:HG22	2.13	0.48
1:dO:82:ASP:OD1	1:dO:83:GLY:N	2.43	0.48
2:dS:143:VAL:HG12	2:dS:145:PRO:HD2	1.95	0.48
2:dU:12:LEU:CD2	2:pL:96:LEU:HD12	2.44	0.48
2:dX:280:VAL:O	2:dX:289:ASN:ND2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eg:193:THR:OG1	2:nF:187:ARG:NH2	2.46	0.48
2:el:208:GLU:OE1	2:el:210:ARG:NE	2.47	0.48
2:ev:205:MET:CE	2:gD:63:ARG:NE	2.74	0.48
2:eI:193:THR:OG1	2:gu:187:ARG:NH2	2.46	0.48
2:eI:230:SER:O	2:eI:231:THR:HG22	2.14	0.48
2:eK:12:LEU:CD2	2:ik:96:LEU:HD12	2.44	0.48
2:eL:278:VAL:HG11	2:eL:295:VAL:O	2.13	0.48
2:eY:103:MET:N	2:eY:103:MET:SD	2.86	0.48
2:fk:199:ASP:HA	2:gC:59:TRP:CH2	2.49	0.48
2:fq:197:LYS:HE3	1:ny:100:LYS:N	2.27	0.48
1:fu:58:PHE:CD1	1:fu:101:VAL:HG21	2.48	0.48
1:fu:82:ASP:OD1	1:fu:83:GLY:N	2.43	0.48
2:fA:144:TYR:CG	2:fA:145:PRO:HD2	2.49	0.48
2:fD:203:VAL:HG12	2:fD:205:MET:HG3	1.96	0.48
2:fN:2:ALA:N	1:gh:94:GLU:HB3	2.28	0.48
2:fR:197:LYS:HZ1	2:kF:62:GLN:HE21	1.61	0.48
1:gl:102:GLU:HG2	2:hS:62:GLN:OE1	2.02	0.48
2:gr:83:THR:HG22	2:gr:84:VAL:N	2.29	0.48
2:gt:230:SER:HB2	2:gt:234:LEU:HD23	1.96	0.48
1:gB:56:GLY:O	1:gB:57:VAL:HG23	2.14	0.48
2:gC:6:PRO:HA	2:gC:9:ILE:HG22	1.96	0.48
2:gE:86:VAL:O	2:gE:202:GLN:N	2.46	0.48
1:gK:58:PHE:CE1	1:gK:101:VAL:HG11	2.49	0.48
2:gS:61:GLY:CA	1:ic:103:ARG:NH1	2.70	0.48
2:gT:179:LEU:HD22	2:gT:209:TYR:HD2	1.78	0.48
2:gU:34:VAL:HG12	2:gU:263:LEU:HD21	1.96	0.48
2:hj:230:SER:HB2	2:hj:234:LEU:HD23	1.96	0.48
2:hs:107:GLY:H	5:qB:178:PRO:HD3	0.70	0.48
1:hR:56:GLY:O	1:hR:57:VAL:HG23	2.14	0.48
2:hU:144:TYR:CG	2:hU:145:PRO:HD2	2.49	0.48
1:ib:60:ARG:HE	1:ib:102:GLU:HB2	1.77	0.48
2:ii:144:TYR:CG	2:ii:145:PRO:HD2	2.49	0.48
2:ii:192:PHE:HB2	2:ii:195:MET:HE2	1.94	0.48
1:iC:58:PHE:CE1	1:iC:101:VAL:HG11	2.49	0.48
2:iZ:278:VAL:HG11	2:iZ:295:VAL:O	2.13	0.48
2:jm:144:TYR:CG	2:jm:145:PRO:HD2	2.49	0.48
1:js:58:PHE:CE1	1:js:101:VAL:HG11	2.49	0.48
2:jC:96:LEU:HD12	2:kc:12:LEU:CD2	2.44	0.48
2:jD:208:GLU:OE1	2:jD:210:ARG:NE	2.47	0.48
2:kf:208:GLU:OE1	2:kf:210:ARG:NE	2.47	0.48
2:kf:230:SER:HB2	2:kf:234:LEU:HD23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kr:34:VAL:HG12	2:kr:263:LEU:HD21	1.96	0.48
2:kG:203:VAL:HG12	2:kG:205:MET:HG3	1.96	0.48
1:kL:55:GLU:O	1:kL:105:THR:HG22	2.13	0.48
1:kM:58:PHE:CG	1:kM:101:VAL:HG21	2.48	0.48
2:lf:144:TYR:CG	2:lf:145:PRO:HD2	2.49	0.48
2:lv:96:LEU:HD12	2:pX:12:LEU:CD2	2.44	0.48
2:IH:144:TYR:CG	2:IH:145:PRO:HD2	2.49	0.48
1:lS:56:GLY:O	1:lS:57:VAL:HG23	2.14	0.48
2:IT:237:VAL:O	2:IT:237:VAL:HG12	2.14	0.48
2:IV:144:TYR:CG	2:IV:145:PRO:HD2	2.49	0.48
2:mB:187:ARG:NH2	2:oD:193:THR:OG1	2.46	0.48
2:mJ:193:THR:OG1	2:ov:187:ARG:NH2	2.46	0.48
2:nb:237:VAL:HG12	2:nb:237:VAL:O	2.12	0.48
2:nl:199:ASP:HA	2:oD:59:TRP:CH2	2.49	0.48
2:nm:177:ARG:NH1	2:nm:213:VAL:HG21	2.28	0.48
2:nB:144:TYR:CG	2:nB:145:PRO:HD2	2.49	0.48
2:nE:203:VAL:HG12	2:nE:205:MET:HG3	1.96	0.48
2:nE:208:GLU:OE1	2:nE:210:ARG:NE	2.47	0.48
2:nE:280:VAL:O	2:nE:289:ASN:ND2	2.44	0.48
1:nH:58:PHE:CE1	1:nH:101:VAL:HG11	2.49	0.48
2:nS:230:SER:HB2	2:nS:234:LEU:HD23	1.96	0.48
1:nV:67:CYS:HA	1:nV:72:CYS:HA	1.95	0.48
2:or:61:GLY:CA	1:pR:103:ARG:NH1	2.70	0.48
2:ou:208:GLU:OE1	2:ou:210:ARG:NE	2.47	0.48
1:oC:56:GLY:O	1:oC:57:VAL:HG23	2.14	0.48
2:pf:6:PRO:HA	2:pf:9:ILE:HG22	1.96	0.48
2:pw:179:LEU:HD22	2:pw:209:TYR:HD2	1.78	0.48
2:pH:6:PRO:HA	2:pH:9:ILE:HG22	1.96	0.48
2:pJ:144:TYR:CG	2:pJ:145:PRO:HD2	2.49	0.48
1:pR:82:ASP:OD1	1:pR:83:GLY:N	2.43	0.48
3:qd:68:ALA:CA	4:qm:222:GLY:O	2.57	0.48
3:qh:102:LEU:O	3:qh:106:VAL:HG23	2.13	0.48
4:qn:116:PHE:CD1	4:qo:202:ILE:HD13	2.26	0.48
5:qp:398:TRP:CE3	5:qr:405:ILE:HD12	2.49	0.48
5:qt:252:LEU:CD2	6:qw:126:GLN:HG2	2.36	0.48
5:qv:398:TRP:CE3	5:qx:405:ILE:HD12	2.49	0.48
5:qB:398:TRP:CE3	5:qD:405:ILE:HD12	2.49	0.48
6:qC:112:LEU:CD2	6:qE:58:LEU:HD13	0.62	0.48
5:qD:380:MET:CE	5:qD:403:LEU:HD21	2.44	0.48
1:at:99:LEU:HD23	1:bR:102:GLU:CG	2.18	0.47
2:aH:193:THR:CG2	2:kb:193:THR:CG2	2.91	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aI:274:ALA:CB	2:aI:297:VAL:HG21	2.44	0.47
2:aV:46:THR:HG22	2:aV:74:GLN:HG2	1.96	0.47
2:aW:63:ARG:NE	2:iJ:205:MET:CE	2.74	0.47
1:bi:56:GLY:O	1:bi:57:VAL:HG23	2.14	0.47
2:bl:12:LEU:CD2	2:ja:96:LEU:HD12	2.44	0.47
2:bn:96:LEU:HD12	2:kp:12:LEU:CD2	2.44	0.47
2:bo:221:PHE:CG	2:bo:242:VAL:HG13	2.49	0.47
2:bQ:107:GLY:O	5:qp:176:ASN:CG	2.56	0.47
1:bX:56:GLY:O	1:bX:57:VAL:HG23	2.14	0.47
2:bZ:274:ALA:CB	2:bZ:297:VAL:HG21	2.44	0.47
2:cd:208:GLU:OE1	2:cd:210:ARG:NE	2.47	0.47
2:cr:117:LEU:HD21	2:cr:211:TYR:HA	1.95	0.47
1:cv:103:ARG:O	2:pK:62:GLN:CB	2.62	0.47
2:cC:193:THR:HG23	2:cC:194:SER:N	2.28	0.47
1:cM:102:GLU:CG	1:pB:99:LEU:HD11	2.42	0.47
2:cO:230:SER:O	2:cO:231:THR:HG22	2.14	0.47
2:cQ:144:TYR:CG	2:cQ:145:PRO:HD2	2.49	0.47
2:cS:34:VAL:HG12	2:cS:263:LEU:HD21	1.96	0.47
1:cZ:102:GLU:CD	2:eI:62:GLN:OE1	2.53	0.47
2:dc:46:THR:HG22	2:dc:74:GLN:HG2	1.96	0.47
2:dh:208:GLU:OE1	2:dh:210:ARG:NE	2.47	0.47
2:du:96:LEU:HD12	2:hU:12:LEU:CD2	2.44	0.47
1:dz:103:ARG:O	2:gF:62:GLN:CB	2.62	0.47
2:dE:230:SER:O	2:dE:231:THR:HG22	2.14	0.47
1:dR:100:LYS:HZ1	1:oY:100:LYS:CG	2.17	0.47
2:dU:86:VAL:O	2:dU:202:GLN:N	2.46	0.47
2:dV:83:THR:HG22	2:dV:84:VAL:N	2.29	0.47
2:dW:60:ILE:HG23	2:dW:60:ILE:O	2.14	0.47
1:ef:56:GLY:O	1:ef:57:VAL:HG23	2.14	0.47
2:ev:141:HIS:HE2	2:ev:150:THR:HG1	1.48	0.47
2:ew:193:THR:HG23	2:ew:194:SER:N	2.28	0.47
2:ez:171:TYR:CZ	2:ez:175:THR:HG21	2.50	0.47
2:eK:61:GLY:CA	1:gk:103:ARG:NH1	2.70	0.47
2:eL:83:THR:HG22	2:eL:84:VAL:N	2.29	0.47
2:eL:179:LEU:HD22	2:eL:209:TYR:HD2	1.78	0.47
2:fc:226:LEU:HD23	2:fc:227:ALA:N	2.28	0.47
1:fj:100:LYS:HZ1	1:gJ:100:LYS:CE	2.27	0.47
2:fp:117:LEU:HD21	2:fp:211:TYR:HA	1.95	0.47
2:fM:6:PRO:HA	2:fM:9:ILE:HG22	1.96	0.47
1:fU:67:CYS:HA	1:fU:72:CYS:HA	1.95	0.47
2:go:199:ASP:HA	2:hS:59:TRP:CH2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gR:205:MET:CE	2:IU:63:ARG:NE	2.74	0.47
2:gR:282:ARG:HH11	2:IU:282:ARG:NH2	1.93	0.47
2:hs:237:VAL:HG12	2:hs:237:VAL:O	2.14	0.47
2:hw:208:GLU:OE1	2:hw:210:ARG:NE	2.47	0.47
2:hx:188:MET:HE2	5:qx:54:GLN:NE2	2.25	0.47
2:hG:12:LEU:CD2	2:kF:96:LEU:HD12	2.44	0.47
2:hG:144:TYR:CG	2:hG:145:PRO:HD2	2.49	0.47
1:hO:82:ASP:OD1	1:hO:83:GLY:N	2.43	0.47
2:hS:46:THR:HG22	2:hS:74:GLN:HG2	1.96	0.47
2:hS:143:VAL:HG12	2:hS:145:PRO:HD2	1.95	0.47
2:hT:274:ALA:CB	2:hT:297:VAL:HG21	2.44	0.47
2:hU:86:VAL:O	2:hU:202:GLN:N	2.46	0.47
2:iw:144:TYR:CG	2:iw:145:PRO:HD2	2.49	0.47
2:iz:208:GLU:OE1	2:iz:210:ARG:NE	2.47	0.47
1:iC:67:CYS:HA	1:iC:72:CYS:HA	1.95	0.47
2:iN:230:SER:HB2	2:iN:234:LEU:HD23	1.96	0.47
2:jk:230:SER:O	2:jk:231:THR:HG22	2.14	0.47
2:jo:34:VAL:HG12	2:jo:263:LEU:HD21	1.96	0.47
2:jz:24:LEU:HD21	2:pW:257:LEU:HD22	1.96	0.47
2:jA:86:VAL:O	2:jA:202:GLN:N	2.46	0.47
1:jL:56:GLY:O	1:jL:57:VAL:HG23	2.14	0.47
2:jM:199:ASP:HA	2:pH:59:TRP:CH2	2.49	0.47
2:jO:53:PHE:O	2:jO:255:ARG:NH2	2.43	0.47
2:jP:62:GLN:CB	1:oM:103:ARG:O	2.62	0.47
2:jQ:60:ILE:HG23	2:jQ:60:ILE:O	2.14	0.47
1:jX:102:GLU:CD	2:lr:62:GLN:OE1	2.53	0.47
2:ka:230:SER:O	2:ka:231:THR:HG22	2.14	0.47
2:kc:294:LEU:H	2:kc:294:LEU:HD23	1.77	0.47
1:kk:55:GLU:O	1:kk:105:THR:HG22	2.13	0.47
2:kB:237:VAL:O	2:kB:237:VAL:HG12	2.14	0.47
2:kS:83:THR:HG22	2:kS:84:VAL:N	2.29	0.47
2:kU:221:PHE:CG	2:kU:242:VAL:HG13	2.49	0.47
2:lf:12:LEU:CD2	2:oH:96:LEU:HD12	2.44	0.47
1:lm:103:ARG:O	2:pY:62:GLN:CB	2.62	0.47
2:lw:203:VAL:HG12	2:lw:205:MET:HG3	1.96	0.47
2:lH:86:VAL:O	2:lH:202:GLN:N	2.46	0.47
1:lP:58:PHE:CD1	1:lP:101:VAL:HG21	2.48	0.47
1:lP:82:ASP:OD1	1:lP:83:GLY:N	2.43	0.47
2:lY:208:GLU:OE1	2:lY:210:ARG:NE	2.47	0.47
2:mh:59:TRP:CH2	2:mv:199:ASP:HA	2.49	0.47
2:mh:62:GLN:OE1	1:ms:102:GLU:CD	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mK:274:ALA:CB	2:mK:297:VAL:HG21	2.44	0.47
2:mM:83:THR:HG22	2:mM:84:VAL:N	2.30	0.47
2:nc:203:VAL:HG12	2:nc:205:MET:HG3	1.96	0.47
2:og:230:SER:HB2	2:og:234:LEU:HD23	1.96	0.47
2:oE:274:ALA:CB	2:oE:297:VAL:HG21	2.44	0.47
1:pb:55:GLU:O	1:pb:105:THR:HG22	2.13	0.47
2:pk:280:VAL:O	2:pk:289:ASN:ND2	2.44	0.47
2:pt:46:THR:HG22	2:pt:74:GLN:HG2	1.96	0.47
2:pv:63:ARG:NH2	2:py:205:MET:SD	2.84	0.47
2:px:34:VAL:HG12	2:px:263:LEU:HD21	1.96	0.47
2:pJ:86:VAL:O	2:pJ:202:GLN:N	2.46	0.47
2:pM:221:PHE:CG	2:pM:242:VAL:HG13	2.49	0.47
2:pX:53:PHE:O	2:pX:255:ARG:NH2	2.43	0.47
2:qa:230:SER:HB2	2:qa:234:LEU:HD23	1.96	0.47
3:qf:67:ARG:N	4:ql:8:TYR:HD2	2.12	0.47
3:qg:82:VAL:HG13	3:qg:83:HIS:N	2.29	0.47
3:qh:15:ILE:HA	3:qh:18:ILE:HB	1.95	0.47
4:qm:172:THR:HG22	4:qn:255:LEU:HG	1.96	0.47
5:qp:405:ILE:HD12	5:qL:398:TRP:CE3	2.49	0.47
6:qs:133:ASP:OD1	5:qL:42:PRO:CD	2.59	0.47
5:qx:229:ILE:HD13	5:qz:232:LEU:HD21	1.85	0.47
5:qz:140:GLU:O	5:qz:151:LEU:N	2.39	0.47
6:qE:131:ARG:HG2	6:qE:131:ARG:O	2.14	0.47
6:qK:131:ARG:O	6:qK:131:ARG:HG2	2.14	0.47
1:aa:67:CYS:HA	1:aa:72:CYS:HA	1.95	0.47
2:az:95:ASN:OD1	5:qJ:44:LYS:HD3	2.12	0.47
1:aG:56:GLY:O	1:aG:57:VAL:HG23	2.14	0.47
1:aQ:103:ARG:O	2:jn:62:GLN:CB	2.63	0.47
1:aR:82:ASP:OD1	1:aR:83:GLY:N	2.43	0.47
2:aW:257:LEU:HD22	2:iJ:24:LEU:HD21	1.97	0.47
2:aZ:34:VAL:HG12	2:aZ:263:LEU:HD21	1.96	0.47
2:bl:144:TYR:CG	2:bl:145:PRO:HD2	2.49	0.47
2:bo:230:SER:HB2	2:bo:234:LEU:HD23	1.96	0.47
2:bx:59:TRP:CH2	2:hS:199:ASP:HA	2.49	0.47
2:bA:278:VAL:HG11	2:bA:295:VAL:O	2.13	0.47
2:bD:187:ARG:NH2	2:hS:193:THR:OG1	2.46	0.47
1:bG:103:ARG:O	2:gr:62:GLN:CB	2.63	0.47
2:bL:237:VAL:O	2:bL:237:VAL:HG12	2.14	0.47
2:bM:193:THR:HG23	2:bM:194:SER:N	2.28	0.47
1:cl:56:GLY:O	1:cl:57:VAL:HG23	2.14	0.47
2:cm:59:TRP:CH2	2:pt:199:ASP:HA	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cn:2:ALA:N	1:pA:94:GLU:HB3	2.28	0.47
2:co:86:VAL:O	2:co:202:GLN:N	2.46	0.47
2:cA:230:SER:O	2:cA:231:THR:HG22	2.14	0.47
1:cI:100:LYS:HB2	1:pF:100:LYS:HE3	1.92	0.47
1:cN:56:GLY:O	1:cN:57:VAL:HG23	2.14	0.47
2:cO:237:VAL:HG12	2:cO:237:VAL:O	2.14	0.47
2:df:62:GLN:CB	1:gx:103:ARG:O	2.62	0.47
1:dk:58:PHE:CE1	1:dk:101:VAL:HG11	2.49	0.47
1:dp:56:GLY:O	1:dp:57:VAL:HG23	2.14	0.47
2:dq:6:PRO:HA	2:dq:9:ILE:HG22	1.96	0.47
2:dv:171:TYR:CZ	2:dv:175:THR:HG21	2.50	0.47
1:dy:67:CYS:HA	1:dy:72:CYS:HA	1.95	0.47
2:dF:257:LEU:HD22	2:eX:24:LEU:HD21	1.96	0.47
2:dG:61:GLY:HA3	1:eS:103:ARG:HG3	1.93	0.47
2:dW:34:VAL:HG12	2:dW:263:LEU:HD21	1.96	0.47
2:eg:6:PRO:HA	2:eg:9:ILE:HG22	1.96	0.47
2:ex:83:THR:HG22	2:ex:84:VAL:N	2.29	0.47
2:eJ:274:ALA:CB	2:eJ:297:VAL:HG21	2.44	0.47
2:eN:208:GLU:OE1	2:eN:210:ARG:NE	2.47	0.47
2:eZ:83:THR:HG22	2:eZ:84:VAL:N	2.29	0.47
2:fb:117:LEU:HD21	2:fb:211:TYR:HA	1.95	0.47
2:fb:171:TYR:CZ	2:fb:175:THR:HG21	2.50	0.47
2:fb:230:SER:HB2	2:fb:234:LEU:HD23	1.96	0.47
1:fj:100:LYS:HZ1	1:gJ:100:LYS:HD3	1.76	0.47
2:fm:144:TYR:CG	2:fm:145:PRO:HD2	2.49	0.47
1:fr:100:LYS:HD3	1:ny:100:LYS:HZ1	1.75	0.47
2:fy:237:VAL:O	2:fy:237:VAL:HG12	2.14	0.47
1:fJ:58:PHE:CG	1:fJ:101:VAL:HG21	2.48	0.47
2:fM:46:THR:HG22	2:fM:74:GLN:HG2	1.96	0.47
2:fM:199:ASP:HA	2:IT:59:TRP:CH2	2.49	0.47
2:fO:144:TYR:CG	2:fO:145:PRO:HD2	2.49	0.47
2:ge:60:ILE:HG23	2:ge:60:ILE:O	2.14	0.47
2:gE:144:TYR:CG	2:gE:145:PRO:HD2	2.49	0.47
2:gE:281:GLN:OE1	2:gE:281:GLN:N	2.44	0.47
2:gH:117:LEU:HD21	2:gH:211:TYR:HA	1.95	0.47
2:gH:203:VAL:HG12	2:gH:205:MET:HG3	1.96	0.47
2:gQ:143:VAL:HG12	2:gQ:145:PRO:HD2	1.95	0.47
2:gW:197:LYS:HA	2:IU:62:GLN:NE2	2.27	0.47
2:hg:144:TYR:CG	2:hg:145:PRO:HD2	2.49	0.47
2:hJ:171:TYR:CZ	2:hJ:175:THR:HG21	2.49	0.47
2:hJ:203:VAL:HG12	2:hJ:205:MET:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hS:230:SER:O	2:hS:231:THR:HG22	2.14	0.47
2:hX:203:VAL:HG12	2:hX:205:MET:HG3	1.96	0.47
1:ia:58:PHE:CE1	1:ia:101:VAL:HG11	2.49	0.47
1:ip:103:ARG:O	2:lu:62:GLN:CB	2.63	0.47
2:ix:83:THR:HG22	2:ix:84:VAL:N	2.30	0.47
2:iI:230:SER:O	2:iI:231:THR:HG22	2.14	0.47
2:iK:144:TYR:CG	2:iK:145:PRO:HD2	2.49	0.47
1:iQ:67:CYS:HA	1:iQ:72:CYS:HA	1.96	0.47
2:jb:208:GLU:OE1	2:jb:210:ARG:NE	2.47	0.47
2:jp:208:GLU:OE1	2:jp:210:ARG:NE	2.47	0.47
1:jv:102:GLU:CD	2:ld:62:GLN:OE1	2.53	0.47
2:jA:144:TYR:CG	2:jA:145:PRO:HD2	2.49	0.47
2:jE:187:ARG:NH2	2:pV:193:THR:OG1	2.46	0.47
2:jR:208:GLU:OE1	2:jR:210:ARG:NE	2.47	0.47
1:kh:94:GLU:HB3	2:ls:2:ALA:N	2.28	0.47
2:kq:179:LEU:HD22	2:kq:209:TYR:HD2	1.78	0.47
2:ks:203:VAL:HG12	2:ks:205:MET:HG3	1.96	0.47
1:kx:103:ARG:NH1	2:kR:61:GLY:CA	2.70	0.47
2:kB:59:TRP:CH2	2:kP:199:ASP:HA	2.49	0.47
2:kD:81:GLU:O	2:kF:57:ARG:N	2.39	0.47
2:kF:60:ILE:HG23	2:kF:60:ILE:O	2.14	0.47
2:kG:208:GLU:OE1	2:kG:210:ARG:NE	2.47	0.47
1:kI:100:LYS:CD	1:kO:100:LYS:NZ	2.71	0.47
1:kJ:67:CYS:HA	1:kJ:72:CYS:HA	1.95	0.47
2:kP:59:TRP:CH2	2:mX:199:ASP:HA	2.49	0.47
2:kQ:2:ALA:N	1:ne:94:GLU:HB3	2.28	0.47
2:kT:60:ILE:HG23	2:kT:60:ILE:O	2.15	0.47
2:ld:230:SER:O	2:ld:231:THR:HG22	2.14	0.47
2:li:192:PHE:CZ	2:mM:196:THR:HG21	2.42	0.47
2:li:203:VAL:HG12	2:li:205:MET:HG3	1.96	0.47
2:li:208:GLU:OE1	2:li:210:ARG:NE	2.47	0.47
2:lu:83:THR:HG22	2:lu:84:VAL:N	2.30	0.47
2:lx:226:LEU:HD23	2:lx:227:ALA:N	2.28	0.47
2:lF:6:PRO:HA	2:lF:9:ILE:HG22	1.96	0.47
2:lG:63:ARG:HE	2:mY:205:MET:HE2	1.72	0.47
2:lH:281:GLN:N	2:lH:281:GLN:OE1	2.44	0.47
2:mm:171:TYR:CZ	2:mm:175:THR:HG21	2.49	0.47
1:mC:100:LYS:CD	1:oC:100:LYS:NZ	2.71	0.47
1:mI:56:GLY:O	1:mI:57:VAL:HG23	2.14	0.47
2:na:179:LEU:HD22	2:na:209:TYR:HD2	1.78	0.47
2:nc:230:SER:HB2	2:nc:234:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mn:61:GLY:CA	1:oz:103:ARG:NH1	2.70	0.47
2:nN:46:THR:HG22	2:nN:74:GLN:HG2	1.96	0.47
2:nN:237:VAL:O	2:nN:237:VAL:HG12	2.14	0.47
2:nQ:83:THR:HG22	2:nQ:84:VAL:N	2.29	0.47
1:nY:58:PHE:CG	1:nY:101:VAL:HG21	2.48	0.47
2:oq:141:HIS:CD2	2:oq:150:THR:HG1	2.32	0.47
2:ou:221:PHE:CG	2:ou:242:VAL:HG13	2.49	0.47
2:oD:230:SER:O	2:oD:231:THR:HG22	2.14	0.47
2:oV:34:VAL:HG12	2:oV:263:LEU:HD21	1.96	0.47
2:pH:237:VAL:O	2:pH:237:VAL:HG12	2.14	0.47
2:pM:208:GLU:OE1	2:pM:210:ARG:NE	2.47	0.47
1:pU:56:GLY:O	1:pU:57:VAL:HG23	2.14	0.47
3:qd:102:LEU:O	3:qd:106:VAL:HG23	2.13	0.47
3:qf:82:VAL:HG13	3:qf:83:HIS:N	2.29	0.47
3:qh:78:VAL:HB	3:qh:141:LEU:HD22	1.96	0.47
4:qj:41:VAL:HG21	4:qo:212:PRO:HG2	1.96	0.47
4:ql:172:THR:HG22	4:qm:255:LEU:HG	1.96	0.47
5:qt:236:LEU:HD12	5:qv:264:GLY:O	2.13	0.47
6:qC:83:LEU:HD11	6:qC:89:VAL:HG11	1.94	0.47
6:qC:112:LEU:CD2	6:qE:58:LEU:HD12	1.00	0.47
6:qM:83:LEU:HD11	6:qM:89:VAL:HG11	1.94	0.47
1:ac:103:ARG:NH1	2:oT:61:GLY:CA	2.70	0.47
2:ag:230:SER:O	2:ag:231:THR:HG22	2.14	0.47
2:ah:274:ALA:CB	2:ah:297:VAL:HG21	2.44	0.47
2:aj:179:LEU:HD22	2:aj:209:TYR:HD2	1.78	0.47
1:an:94:GLU:HB3	2:oc:2:ALA:N	2.28	0.47
2:ay:171:TYR:CZ	2:ay:175:THR:HG21	2.50	0.47
1:aD:82:ASP:OD1	1:aD:83:GLY:N	2.43	0.47
2:aH:230:SER:O	2:aH:231:THR:HG22	2.14	0.47
2:aK:196:THR:HG21	2:jb:192:PHE:CZ	2.42	0.47
2:aL:34:VAL:HG12	2:aL:263:LEU:HD21	1.96	0.47
2:aL:60:ILE:HG23	2:aL:60:ILE:O	2.14	0.47
2:aM:230:SER:HB2	2:aM:234:LEU:HD23	1.96	0.47
2:aM:280:VAL:O	2:aM:289:ASN:ND2	2.44	0.47
1:be:103:ARG:O	2:kq:62:GLN:CB	2.63	0.47
2:bj:62:GLN:OE1	1:dn:102:GLU:CD	2.53	0.47
2:bx:199:ASP:HA	2:dc:59:TRP:CH2	2.49	0.47
2:bx:230:SER:O	2:bx:231:THR:HG22	2.14	0.47
2:bA:62:GLN:CB	1:eR:103:ARG:O	2.62	0.47
2:bA:179:LEU:HD22	2:bA:209:TYR:HD2	1.78	0.47
2:cd:171:TYR:CZ	2:cd:175:THR:HG21	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cn:24:LEU:HD21	2:pu:257:LEU:HD22	1.96	0.47
2:cC:144:TYR:CG	2:cC:145:PRO:HD2	2.49	0.47
2:cF:171:TYR:CZ	2:cF:175:THR:HG21	2.50	0.47
2:cQ:86:VAL:O	2:cQ:202:GLN:N	2.46	0.47
2:cQ:294:LEU:H	2:cQ:294:LEU:HD23	1.77	0.47
2:cR:179:LEU:HD22	2:cR:209:TYR:HD2	1.78	0.47
2:cT:208:GLU:OE1	2:cT:210:ARG:NE	2.47	0.47
2:de:294:LEU:HD23	2:de:294:LEU:H	1.77	0.47
1:dn:58:PHE:CG	1:dn:101:VAL:HG21	2.48	0.47
2:dv:117:LEU:HD21	2:dv:211:TYR:HA	1.95	0.47
1:dB:102:GLU:CD	2:eW:62:GLN:OE1	2.53	0.47
1:dM:58:PHE:CE1	1:dM:101:VAL:HG11	2.49	0.47
1:dN:99:LEU:HD21	1:pC:60:ARG:HH21	0.59	0.47
1:dR:56:GLY:O	1:dR:57:VAL:HG23	2.14	0.47
2:dT:24:LEU:HD21	2:nO:257:LEU:HD22	1.96	0.47
2:dX:208:GLU:OE1	2:dX:210:ARG:NE	2.47	0.47
2:el:197:LYS:HZ1	2:ml:62:GLN:HE21	1.61	0.47
1:ep:103:ARG:O	2:pi:62:GLN:CB	2.63	0.47
2:ew:53:PHE:O	2:ew:255:ARG:NH2	2.43	0.47
2:ew:144:TYR:CG	2:ew:145:PRO:HD2	2.49	0.47
1:eC:58:PHE:CE1	1:eC:101:VAL:HG11	2.49	0.47
1:eF:58:PHE:CG	1:eF:101:VAL:HG21	2.48	0.47
2:eI:237:VAL:O	2:eI:237:VAL:HG12	2.14	0.47
2:fb:208:GLU:OE1	2:fb:210:ARG:NE	2.47	0.47
2:fp:171:TYR:CZ	2:fp:175:THR:HG21	2.49	0.47
1:fu:55:GLU:O	1:fu:105:THR:HG22	2.13	0.47
1:fx:99:LEU:HG	1:ns:102:GLU:OE2	1.74	0.47
2:fD:221:PHE:CG	2:fD:242:VAL:HG13	2.49	0.47
1:fJ:102:GLU:CD	2:IT:62:GLN:OE1	2.53	0.47
2:fM:237:VAL:O	2:fM:237:VAL:HG12	2.14	0.47
2:FR:230:SER:HB2	2:FR:234:LEU:HD23	1.96	0.47
1:gh:100:LYS:HD3	1:if:100:LYS:HZ1	1.75	0.47
2:gp:141:HIS:CD2	2:gp:150:THR:HG1	2.31	0.47
2:gt:203:VAL:HG12	2:gt:205:MET:HG3	1.96	0.47
2:gt:208:GLU:OE1	2:gt:210:ARG:NE	2.47	0.47
2:gC:230:SER:O	2:gC:231:THR:HG22	2.15	0.47
2:gH:221:PHE:CG	2:gH:242:VAL:HG13	2.49	0.47
2:gH:230:SER:HB2	2:gH:234:LEU:HD23	1.96	0.47
1:gP:56:GLY:O	1:gP:57:VAL:HG23	2.14	0.47
2:gR:274:ALA:CB	2:gR:297:VAL:HG21	2.44	0.47
2:hj:171:TYR:OH	2:hj:175:THR:OG1	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hk:185:GLN:O	2:hk:205:MET:N	2.43	0.47
1:hr:100:LYS:NZ	1:ku:100:LYS:CD	2.71	0.47
2:hu:83:THR:HG22	2:hu:84:VAL:N	2.30	0.47
1:hz:58:PHE:CE1	1:hz:101:VAL:HG11	2.49	0.47
2:hG:193:THR:HG23	2:hG:194:SER:N	2.28	0.47
2:hX:117:LEU:HD21	2:hX:211:TYR:HA	1.95	0.47
2:ij:83:THR:HG22	2:ij:84:VAL:N	2.30	0.47
2:ik:243:TYR:O	2:ik:247:ARG:HG2	2.15	0.47
2:iy:60:ILE:HG23	2:iy:60:ILE:O	2.14	0.47
1:iH:56:GLY:O	1:iH:57:VAL:HG23	2.14	0.47
2:iN:117:LEU:HD21	2:iN:211:TYR:HA	1.95	0.47
2:iN:203:VAL:HG12	2:iN:205:MET:HG3	1.96	0.47
2:iN:221:PHE:CG	2:iN:242:VAL:HG13	2.49	0.47
2:iY:144:TYR:CG	2:iY:145:PRO:HD2	2.49	0.47
1:jj:56:GLY:O	1:jj:57:VAL:HG23	2.14	0.47
2:jn:179:LEU:HD22	2:jn:209:TYR:HD2	1.78	0.47
2:jo:60:ILE:HG23	2:jo:60:ILE:O	2.14	0.47
2:jy:230:SER:O	2:jy:231:THR:HG22	2.14	0.47
2:jz:2:ALA:N	1:qc:94:GLU:HB3	2.28	0.47
2:jM:143:VAL:HG12	2:jM:145:PRO:HD2	1.95	0.47
1:jU:67:CYS:HA	1:jU:72:CYS:HA	1.96	0.47
2:kb:274:ALA:CB	2:kb:297:VAL:HG21	2.44	0.47
2:kc:281:GLN:OE1	2:kc:281:GLN:N	2.44	0.47
1:ki:58:PHE:CE1	1:ki:101:VAL:HG11	2.49	0.47
1:ky:58:PHE:CG	1:ky:101:VAL:HG21	2.48	0.47
2:kC:280:VAL:O	2:kC:289:ASN:ND2	2.41	0.47
1:kO:56:GLY:O	1:kO:57:VAL:HG23	2.14	0.47
2:kQ:274:ALA:CB	2:kQ:297:VAL:HG21	2.44	0.47
2:ld:237:VAL:O	2:ld:237:VAL:HG12	2.14	0.47
1:lq:56:GLY:O	1:lq:57:VAL:HG23	2.14	0.47
2:ls:274:ALA:CB	2:ls:297:VAL:HG21	2.44	0.47
2:lK:171:TYR:CZ	2:lK:175:THR:HG21	2.50	0.47
1:mb:58:PHE:CE1	1:mb:101:VAL:HG11	2.49	0.47
2:mj:281:GLN:OE1	2:mj:281:GLN:N	2.44	0.47
1:mo:100:LYS:HD3	1:mu:100:LYS:HZ1	1.75	0.47
1:mp:67:CYS:HA	1:mp:72:CYS:HA	1.95	0.47
2:mv:230:SER:O	2:mv:231:THR:HG22	2.14	0.47
2:mx:144:TYR:CG	2:mx:145:PRO:HD2	2.49	0.47
1:mF:58:PHE:CD1	1:mF:101:VAL:HG21	2.48	0.47
2:mJ:199:ASP:HA	2:op:59:TRP:CH2	2.49	0.47
2:mK:257:LEU:HD22	2:oq:24:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nc:171:TYR:CZ	2:nc:175:THR:HG21	2.50	0.47
2:nq:203:VAL:HG12	2:nq:205:MET:HG3	1.96	0.47
2:nq:208:GLU:OE1	2:nq:210:ARG:NE	2.47	0.47
2:nq:221:PHE:CG	2:nq:242:VAL:HG13	2.49	0.47
2:nE:221:PHE:CG	2:nE:242:VAL:HG13	2.49	0.47
2:nS:280:VAL:O	2:nS:289:ASN:ND2	2.44	0.47
2:ob:237:VAL:HG12	2:ob:237:VAL:O	2.14	0.47
2:od:281:GLN:OE1	2:od:281:GLN:N	2.44	0.47
1:ok:103:ARG:O	2:oU:62:GLN:CB	2.63	0.47
1:ol:55:GLU:O	1:ol:105:THR:HG22	2.13	0.47
2:op:230:SER:O	2:op:231:THR:HG22	2.14	0.47
2:oq:274:ALA:CB	2:oq:297:VAL:HG21	2.44	0.47
2:or:144:TYR:CG	2:or:145:PRO:HD2	2.49	0.47
2:oD:46:THR:HG22	2:oD:74:GLN:HG2	1.96	0.47
2:oS:274:ALA:CB	2:oS:297:VAL:HG21	2.44	0.47
2:oW:171:TYR:CZ	2:oW:175:THR:HG21	2.50	0.47
2:oW:208:GLU:OE1	2:oW:210:ARG:NE	2.47	0.47
2:oW:221:PHE:CG	2:oW:242:VAL:HG13	2.49	0.47
2:oW:230:SER:HB2	2:oW:234:LEU:HD23	1.96	0.47
2:pi:83:THR:HG22	2:pi:84:VAL:N	2.30	0.47
1:pp:63:VAL:HG23	1:pp:99:LEU:CD1	2.42	0.47
2:pv:144:TYR:CG	2:pv:145:PRO:HD2	2.49	0.47
2:pX:144:TYR:CG	2:pX:145:PRO:HD2	2.49	0.47
3:qf:78:VAL:HG12	3:qf:79:VAL:N	2.30	0.47
3:qf:102:LEU:O	3:qf:106:VAL:HG23	2.13	0.47
3:qf:118:VAL:HG11	3:qg:127:GLN:HE22	1.79	0.47
4:qk:172:THR:HG22	4:ql:255:LEU:HG	1.96	0.47
4:qm:188:ARG:NE	4:qm:204:GLU:OE1	2.43	0.47
6:qq:131:ARG:HG2	6:qq:131:ARG:O	2.14	0.47
5:qr:42:PRO:CD	6:qw:133:ASP:OD1	2.59	0.47
6:qs:131:ARG:O	6:qs:131:ARG:HG2	2.14	0.47
5:qB:235:ARG:NH2	5:qB:255:VAL:O	2.47	0.47
5:qH:235:ARG:NH2	5:qH:255:VAL:O	2.47	0.47
1:aa:58:PHE:CE1	1:aa:101:VAL:HG11	2.49	0.47
2:ah:63:ARG:NE	2:oc:205:MET:CE	2.74	0.47
2:ai:144:TYR:CG	2:ai:145:PRO:HD2	2.49	0.47
2:al:280:VAL:O	2:al:289:ASN:ND2	2.44	0.47
1:at:56:GLY:O	1:at:57:VAL:HG23	2.14	0.47
2:aw:83:THR:HG22	2:aw:84:VAL:N	2.30	0.47
2:ax:60:ILE:HG23	2:ax:60:ILE:O	2.14	0.47
2:ay:221:PHE:CG	2:ay:242:VAL:HG13	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aW:193:THR:CG2	2:bj:193:THR:CG2	2.91	0.47
2:aZ:60:ILE:HG23	2:aZ:60:ILE:O	2.14	0.47
2:ba:280:VAL:O	2:ba:289:ASN:ND2	2.44	0.47
2:bo:117:LEU:HD21	2:bo:211:TYR:HA	1.95	0.47
2:bo:208:GLU:OE1	2:bo:210:ARG:NE	2.47	0.47
2:by:2:ALA:N	1:hZ:94:GLU:HB3	2.28	0.47
2:bz:144:TYR:CG	2:bz:145:PRO:HD2	2.49	0.47
2:bA:83:THR:HG22	2:bA:84:VAL:N	2.29	0.47
2:bC:117:LEU:HD21	2:bC:211:TYR:HA	1.95	0.47
2:bD:228:ALA:HB1	2:bD:283:LEU:HG	1.97	0.47
1:bJ:100:LYS:CE	1:IN:100:LYS:CB	2.92	0.47
2:bM:144:TYR:CG	2:bM:145:PRO:HD2	2.49	0.47
2:bN:179:LEU:HD22	2:bN:209:TYR:HD2	1.78	0.47
2:ca:144:TYR:CG	2:ca:145:PRO:HD2	2.49	0.47
2:cd:192:PHE:CZ	2:dt:196:THR:HG21	2.42	0.47
2:cn:193:THR:CG2	2:pt:193:THR:CG2	2.91	0.47
2:cp:62:GLN:CB	1:jf:103:ARG:O	2.63	0.47
2:cp:83:THR:HA	2:cp:205:MET:HG2	1.97	0.47
2:cq:278:VAL:HG21	2:cq:295:VAL:O	2.15	0.47
2:cB:24:LEU:HD21	2:cP:257:LEU:HD22	1.96	0.47
1:cJ:99:LEU:HD21	1:po:60:ARG:HH21	0.59	0.47
2:cO:59:TRP:CH2	2:eW:199:ASP:HA	2.49	0.47
2:cO:62:GLN:OE1	1:eT:102:GLU:HG2	2.02	0.47
2:cP:193:THR:HG21	2:eW:193:THR:CG2	2.45	0.47
1:cW:58:PHE:CE1	1:cW:101:VAL:HG11	2.49	0.47
2:de:53:PHE:O	2:de:255:ARG:NH2	2.43	0.47
2:dv:208:GLU:OE1	2:dv:210:ARG:NE	2.47	0.47
2:dv:221:PHE:CG	2:dv:242:VAL:HG13	2.49	0.47
2:dE:199:ASP:HA	2:eW:59:TRP:CH2	2.49	0.47
2:dG:61:GLY:CA	1:eS:103:ARG:NH1	2.70	0.47
2:dG:192:PHE:HB2	2:dG:195:MET:HE2	1.94	0.47
1:dO:63:VAL:HG23	1:dO:99:LEU:CD1	2.42	0.47
2:ek:278:VAL:HG21	2:ek:295:VAL:O	2.15	0.47
2:el:171:TYR:CZ	2:el:175:THR:HG21	2.49	0.47
2:ez:221:PHE:CG	2:ez:242:VAL:HG13	2.49	0.47
2:eX:141:HIS:CD2	2:eX:150:THR:HG1	2.31	0.47
2:eX:274:ALA:CB	2:eX:297:VAL:HG21	2.44	0.47
2:fI:274:ALA:CB	2:fI:297:VAL:HG21	2.44	0.47
2:fp:280:VAL:O	2:fp:289:ASN:ND2	2.44	0.47
2:fq:226:LEU:HD23	2:fq:227:ALA:N	2.28	0.47
2:fz:2:ALA:N	1:mo:94:GLU:HB3	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fz:197:LYS:NZ	1:me:98:LEU:O	2.47	0.47
2:fD:208:GLU:OE1	2:fD:210:ARG:NE	2.47	0.47
1:fG:58:PHE:CE1	1:fG:101:VAL:HG11	2.49	0.47
2:fN:141:HIS:CD2	2:fN:150:THR:HG1	2.30	0.47
2:fR:171:TYR:CZ	2:fR:175:THR:HG21	2.50	0.47
1:fV:102:GLU:HB2	1:nu:99:LEU:CD2	2.33	0.47
1:fZ:56:GLY:O	1:fZ:57:VAL:HG23	2.14	0.47
2:gc:12:LEU:CD2	2:ml:96:LEU:HD12	2.44	0.47
2:gc:86:VAL:O	2:gc:202:GLN:N	2.46	0.47
2:gf:171:TYR:CZ	2:gf:175:THR:HG21	2.50	0.47
2:gf:221:PHE:CG	2:gf:242:VAL:HG13	2.49	0.47
2:go:46:THR:HG22	2:go:74:GLN:HG2	1.96	0.47
2:go:230:SER:O	2:go:231:THR:HG22	2.14	0.47
2:gp:274:ALA:CB	2:gp:297:VAL:HG21	2.44	0.47
2:gq:144:TYR:CG	2:gq:145:PRO:HD2	2.49	0.47
2:gQ:230:SER:O	2:gQ:231:THR:HG22	2.14	0.47
2:he:230:SER:O	2:he:231:THR:HG22	2.14	0.47
2:hj:280:VAL:O	2:hj:289:ASN:ND2	2.44	0.47
1:hm:58:PHE:CE1	1:hm:101:VAL:HG11	2.49	0.47
1:hq:100:LYS:HE3	1:iQ:100:LYS:HB2	1.92	0.47
2:hs:143:VAL:HG12	2:hs:145:PRO:HD2	1.95	0.47
1:hz:67:CYS:HA	1:hz:72:CYS:HA	1.95	0.47
2:hI:60:ILE:HG23	2:hI:60:ILE:O	2.14	0.47
2:hU:53:PHE:O	2:hU:255:ARG:NH2	2.43	0.47
2:hX:221:PHE:CG	2:hX:242:VAL:HG13	2.49	0.47
1:if:56:GLY:O	1:if:57:VAL:HG23	2.14	0.47
2:ik:62:GLN:HE21	2:nE:197:LYS:HZ1	1.62	0.47
2:il:197:LYS:HZ1	2:nD:62:GLN:HE21	1.60	0.47
2:il:221:PHE:CG	2:il:242:VAL:HG13	2.49	0.47
2:iu:193:THR:CG2	2:jN:193:THR:HG21	2.45	0.47
2:iu:193:THR:OG1	2:jS:187:ARG:NH2	2.46	0.47
2:iy:278:VAL:HG21	2:iy:295:VAL:O	2.15	0.47
1:iE:55:GLU:O	1:iE:105:THR:HG22	2.13	0.47
2:iI:46:THR:HG22	2:iI:74:GLN:HG2	1.96	0.47
2:iL:83:THR:HA	2:iL:205:MET:HG2	1.97	0.47
2:iW:59:TRP:CH2	2:jk:199:ASP:HA	2.49	0.47
1:je:58:PHE:CE1	1:je:101:VAL:HG11	2.49	0.47
2:jC:243:TYR:O	2:jC:247:ARG:HG2	2.15	0.47
2:jM:6:PRO:HA	2:jM:9:ILE:HG22	1.96	0.47
2:jQ:96:LEU:HD12	2:or:12:LEU:CD2	2.44	0.47
1:jU:58:PHE:CE1	1:jU:101:VAL:HG11	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ka:6:PRO:HA	2:ka:9:ILE:HG22	1.96	0.47
2:ko:46:THR:HG22	2:ko:74:GLN:HG2	1.96	0.47
2:ko:237:VAL:O	2:ko:237:VAL:HG12	2.14	0.47
2:kq:83:THR:HG22	2:kq:84:VAL:N	2.30	0.47
2:ks:230:SER:HB2	2:ks:234:LEU:HD23	1.96	0.47
1:kv:58:PHE:CE1	1:kv:101:VAL:HG11	2.49	0.47
2:kB:6:PRO:HA	2:kB:9:ILE:HG22	1.96	0.47
2:kC:24:LEU:HD21	2:kQ:257:LEU:HD22	1.96	0.47
2:kD:192:PHE:HB2	2:kD:195:MET:HE2	1.94	0.47
2:kG:171:TYR:CZ	2:kG:175:THR:HG21	2.50	0.47
1:kX:58:PHE:CE1	1:kX:101:VAL:HG11	2.49	0.47
2:lg:62:GLN:CB	1:oy:103:ARG:O	2.63	0.47
2:li:117:LEU:HD21	2:li:211:TYR:HA	1.95	0.47
2:lr:6:PRO:HA	2:lr:9:ILE:HG22	1.96	0.47
2:lt:281:GLN:N	2:lt:281:GLN:OE1	2.44	0.47
2:lH:63:ARG:NH2	2:lK:205:MET:SD	2.84	0.47
2:lU:274:ALA:CB	2:lU:297:VAL:HG21	2.44	0.47
2:lX:278:VAL:HG21	2:lX:295:VAL:O	2.15	0.47
2:mj:12:LEU:CD2	2:nD:96:LEU:HD12	2.44	0.47
2:mm:230:SER:HB2	2:mm:234:LEU:HD23	1.96	0.47
1:mu:56:GLY:O	1:mu:57:VAL:HG23	2.14	0.47
2:mA:171:TYR:CZ	2:mA:175:THR:HG21	2.50	0.47
1:mD:67:CYS:HA	1:mD:72:CYS:HA	1.95	0.47
2:mY:274:ALA:CB	2:mY:297:VAL:HG21	2.44	0.47
2:nb:278:VAL:HG21	2:nb:295:VAL:O	2.15	0.47
2:np:60:ILE:HG23	2:np:60:ILE:O	2.15	0.47
2:np:243:TYR:O	2:np:247:ARG:HG2	2.15	0.47
2:nq:117:LEU:HD21	2:nq:211:TYR:HA	1.95	0.47
1:nt:58:PHE:CE1	1:nt:101:VAL:HG11	2.49	0.47
2:nz:6:PRO:HA	2:nz:9:ILE:HG22	1.96	0.47
2:nz:230:SER:O	2:nz:231:THR:HG22	2.14	0.47
2:nA:274:ALA:CB	2:nA:297:VAL:HG21	2.44	0.47
2:ob:230:SER:O	2:ob:231:THR:HG22	2.14	0.47
2:op:199:ASP:HA	2:pV:59:TRP:CH2	2.49	0.47
2:oF:144:TYR:CG	2:oF:145:PRO:HD2	2.49	0.47
2:oH:243:TYR:O	2:oH:247:ARG:HG2	2.15	0.47
2:oR:237:VAL:O	2:oR:237:VAL:HG12	2.14	0.47
2:oT:193:THR:HG23	2:oT:194:SER:N	2.28	0.47
1:oZ:58:PHE:CE1	1:oZ:101:VAL:HG11	2.49	0.47
1:pe:56:GLY:O	1:pe:57:VAL:HG23	2.14	0.47
2:pf:230:SER:O	2:pf:231:THR:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pi:65:ILE:HG22	2:pi:66:LYS:N	2.30	0.47
2:pH:230:SER:O	2:pH:231:THR:HG22	2.14	0.47
2:pJ:53:PHE:O	2:pJ:255:ARG:NH2	2.43	0.47
2:pV:230:SER:O	2:pV:231:THR:HG22	2.14	0.47
3:qg:31:VAL:HB	3:qg:32:PRO:HD3	1.95	0.47
3:qg:78:VAL:HG12	3:qg:79:VAL:N	2.30	0.47
3:qh:67:ARG:N	4:qj:8:TYR:HD2	2.13	0.47
4:qn:83:THR:HG21	4:qn:228:MET:HE1	1.96	0.47
5:qt:235:ARG:NH2	5:qt:255:VAL:O	2.47	0.47
5:qt:398:TRP:CE3	5:qv:405:ILE:HD12	2.49	0.47
5:qv:380:MET:CE	5:qv:403:LEU:HD21	2.44	0.47
1:ae:100:LYS:CE	1:fs:100:LYS:CB	2.92	0.47
2:ak:60:ILE:HG23	2:ak:60:ILE:O	2.14	0.47
2:ay:192:PHE:CZ	2:bN:196:THR:HG21	2.42	0.47
2:ay:208:GLU:OE1	2:ay:210:ARG:NE	2.47	0.47
2:az:185:GLN:O	2:az:205:MET:N	2.43	0.47
2:aH:193:THR:CG2	2:kb:193:THR:HG21	2.45	0.47
2:aJ:144:TYR:CG	2:aJ:145:PRO:HD2	2.49	0.47
2:aN:228:ALA:HB1	2:aN:283:LEU:HG	1.97	0.47
1:aS:103:ARG:HD2	2:iI:61:GLY:CA	2.40	0.47
2:aV:193:THR:CG2	2:iJ:193:THR:CG2	2.91	0.47
2:aV:199:ASP:HA	2:iI:59:TRP:CH2	2.49	0.47
2:aX:12:LEU:CD2	2:cq:96:LEU:HD12	2.44	0.47
2:aZ:278:VAL:HG21	2:aZ:295:VAL:O	2.15	0.47
2:ba:208:GLU:OE1	2:ba:210:ARG:NE	2.47	0.47
2:bb:242:VAL:O	2:bb:246:MET:HG3	2.15	0.47
2:bm:278:VAL:HG11	2:bm:295:VAL:O	2.13	0.47
2:bB:34:VAL:HG12	2:bB:263:LEU:HD21	1.96	0.47
2:bB:60:ILE:HG23	2:bB:60:ILE:O	2.14	0.47
2:bB:96:LEU:HD12	2:ca:12:LEU:CD2	2.44	0.47
2:bC:197:LYS:HZ1	2:dI:62:GLN:HE21	1.61	0.47
1:bF:100:LYS:CB	1:IR:100:LYS:CE	2.92	0.47
1:bH:82:ASP:OD1	1:bH:83:GLY:N	2.43	0.47
2:bL:46:THR:HG22	2:bL:74:GLN:HG2	1.96	0.47
2:bL:104:GLN:HE21	5:qr:166:GLU:CD	2.22	0.47
2:bL:184:TYR:CE2	5:qr:165:PRO:HG2	2.48	0.47
2:bO:278:VAL:HG21	2:bO:295:VAL:O	2.15	0.47
2:bP:117:LEU:HD21	2:bP:211:TYR:HA	1.95	0.47
2:cb:83:THR:HG22	2:cb:84:VAL:N	2.29	0.47
2:cd:203:VAL:HG12	2:cd:205:MET:HG3	1.96	0.47
2:ce:242:VAL:O	2:ce:246:MET:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cg:58:PHE:CE1	1:cg:101:VAL:HG11	2.49	0.47
2:cn:193:THR:HG21	2:pt:193:THR:CG2	2.45	0.47
2:co:144:TYR:CG	2:co:145:PRO:HD2	2.49	0.47
2:cs:55:LYS:HG3	2:cs:253:GLY:O	2.15	0.47
1:ct:102:GLU:CG	1:ps:99:LEU:HD23	2.19	0.47
2:cA:62:GLN:OE1	1:cL:102:GLU:CD	2.53	0.47
2:cA:237:VAL:O	2:cA:237:VAL:HG12	2.14	0.47
2:cB:274:ALA:CB	2:cB:297:VAL:HG21	2.44	0.47
2:cS:60:ILE:HG23	2:cS:60:ILE:O	2.14	0.47
2:cS:243:TYR:O	2:cS:247:ARG:HG2	2.15	0.47
2:cS:278:VAL:HG21	2:cS:295:VAL:O	2.15	0.47
2:cT:171:TYR:CZ	2:cT:175:THR:HG21	2.50	0.47
2:de:198:GLU:N	2:de:198:GLU:OE1	2.48	0.47
2:dg:243:TYR:O	2:dg:247:ARG:HG2	2.15	0.47
1:dl:102:GLU:OE1	1:hN:99:LEU:CA	2.28	0.47
1:dl:103:ARG:O	2:hV:62:GLN:CB	2.62	0.47
2:ds:192:PHE:HB2	2:ds:195:MET:HE2	1.94	0.47
2:dE:62:GLN:OE1	1:pc:102:GLU:CD	2.53	0.47
2:dF:193:THR:HG21	2:pf:193:THR:CG2	2.45	0.47
2:dG:144:TYR:CG	2:dG:145:PRO:HD2	2.49	0.47
2:dJ:203:VAL:HG12	2:dJ:205:MET:HG3	1.96	0.47
2:dT:257:LEU:HD22	2:oS:24:LEU:HD21	1.96	0.47
2:dW:243:TYR:O	2:dW:247:ARG:HG2	2.15	0.47
2:eg:237:VAL:HG12	2:eg:237:VAL:O	2.14	0.47
2:eh:280:VAL:O	2:eh:289:ASN:ND2	2.41	0.47
2:ej:65:ILE:HG22	2:ej:66:LYS:N	2.30	0.47
2:ej:83:THR:HG22	2:ej:84:VAL:N	2.29	0.47
2:el:203:VAL:HG12	2:el:205:MET:HG3	1.96	0.47
2:eu:230:SER:O	2:eu:231:THR:HG22	2.14	0.47
2:ev:225:GLN:N	2:ev:225:GLN:OE1	2.45	0.47
2:ev:274:ALA:CB	2:ev:297:VAL:HG21	2.44	0.47
2:ez:117:LEU:HD21	2:ez:211:TYR:HA	1.95	0.47
1:eD:60:ARG:HH21	1:ff:99:LEU:HD21	0.59	0.47
1:eD:103:ARG:O	2:fn:62:GLN:CB	2.63	0.47
2:eJ:280:VAL:O	2:eJ:289:ASN:ND2	2.41	0.47
2:eJ:282:ARG:NH2	2:gp:282:ARG:HH11	1.93	0.47
2:eN:117:LEU:HD21	2:eN:211:TYR:HA	1.95	0.47
1:eV:56:GLY:O	1:eV:57:VAL:HG23	2.14	0.47
2:eY:144:TYR:CG	2:eY:145:PRO:HD2	2.49	0.47
2:fk:193:THR:CG2	2:gD:193:THR:HG21	2.45	0.47
2:fC:278:VAL:HG21	2:fC:295:VAL:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fH:103:ARG:O	2:my:62:GLN:CB	2.62	0.47
2:fP:62:GLN:CB	1:gZ:103:ARG:O	2.62	0.47
2:gb:193:THR:HG21	2:ig:193:THR:CG2	2.45	0.47
1:gw:58:PHE:CE1	1:gw:101:VAL:HG11	2.49	0.47
2:gF:179:LEU:HD22	2:gF:209:TYR:HD2	1.78	0.47
2:gI:228:ALA:HB1	2:gI:283:LEU:HG	1.97	0.47
2:gR:193:THR:HG21	2:IT:193:THR:CG2	2.45	0.47
2:gV:203:VAL:HG12	2:gV:205:MET:HG3	1.96	0.47
2:gW:242:VAL:O	2:gW:246:MET:HG3	2.15	0.47
2:hs:59:TRP:CH2	2:hF:199:ASP:HA	2.49	0.47
2:hv:278:VAL:HG21	2:hv:295:VAL:O	2.15	0.47
2:hI:34:VAL:HG12	2:hI:263:LEU:HD21	1.96	0.47
2:hS:237:VAL:HG12	2:hS:237:VAL:O	2.14	0.47
2:ig:143:VAL:HG12	2:ig:145:PRO:HD2	1.95	0.47
2:ik:278:VAL:HG21	2:ik:295:VAL:O	2.15	0.47
2:iz:221:PHE:CG	2:iz:242:VAL:HG13	2.49	0.47
2:iN:208:GLU:OE1	2:iN:210:ARG:NE	2.47	0.47
2:iW:237:VAL:O	2:iW:237:VAL:HG12	2.14	0.47
2:iZ:62:GLN:CB	1:kj:103:ARG:O	2.62	0.47
1:jg:62:THR:OG1	1:jg:100:LYS:O	2.27	0.47
2:jl:193:THR:HG21	2:lr:193:THR:CG2	2.45	0.47
2:jo:278:VAL:HG21	2:jo:295:VAL:O	2.15	0.47
2:jy:59:TRP:CH2	2:pV:199:ASP:HA	2.49	0.47
2:jB:83:THR:HA	2:jB:205:MET:HG2	1.97	0.47
2:jD:230:SER:HB2	2:jD:234:LEU:HD23	1.96	0.47
1:jG:58:PHE:CE1	1:jG:101:VAL:HG11	2.49	0.47
1:jH:103:ARG:O	2:os:62:GLN:CB	2.62	0.47
2:jR:171:TYR:CZ	2:jR:175:THR:HG21	2.50	0.47
1:jV:103:ARG:O	2:na:62:GLN:CB	2.62	0.47
2:ka:199:ASP:HA	2:lr:59:TRP:CH2	2.49	0.47
2:ka:237:VAL:HG12	2:ka:237:VAL:O	2.14	0.47
2:kd:83:THR:HA	2:kd:205:MET:HG2	1.97	0.47
2:kf:117:LEU:HD21	2:kf:211:TYR:HA	1.95	0.47
2:kp:144:TYR:CG	2:kp:145:PRO:HD2	2.49	0.47
2:kE:83:THR:HG22	2:kE:84:VAL:N	2.29	0.47
2:kP:46:THR:HG22	2:kP:74:GLN:HG2	1.96	0.47
2:kQ:67:ASP:HB2	2:kV:4:ILE:HD11	1.97	0.47
2:kT:243:TYR:O	2:kT:247:ARG:HG2	2.15	0.47
2:kU:117:LEU:HD21	2:kU:211:TYR:HA	1.95	0.47
2:kU:171:TYR:CZ	2:kU:175:THR:HG21	2.50	0.47
2:kV:242:VAL:O	2:kV:246:MET:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ld:199:ASP:HA	2:mJ:59:TRP:CH2	2.49	0.47
2:lf:198:GLU:OE1	2:lf:198:GLU:N	2.48	0.47
2:lh:34:VAL:HG12	2:lh:263:LEU:HD21	1.96	0.47
2:lh:62:GLN:HE21	2:nq:197:LYS:HZ1	1.62	0.47
2:li:221:PHE:CG	2:li:242:VAL:HG13	2.49	0.47
2:lw:208:GLU:OE1	2:lw:210:ARG:NE	2.47	0.47
1:lA:103:ARG:O	2:oG:62:GLN:CB	2.62	0.47
2:ll:83:THR:HG22	2:ll:84:VAL:N	2.29	0.47
2:lJ:243:TYR:O	2:lJ:247:ARG:HG2	2.15	0.47
2:lK:117:LEU:HD21	2:lK:211:TYR:HA	1.95	0.47
2:lY:203:VAL:HG12	2:lY:205:MET:HG3	1.96	0.47
2:mi:274:ALA:CB	2:mi:297:VAL:HG21	2.44	0.47
1:mr:82:ASP:OD1	1:mr:83:GLY:N	2.43	0.47
2:mv:59:TRP:CH2	2:oD:199:ASP:HA	2.49	0.47
2:mw:24:LEU:HD21	2:oE:257:LEU:HD22	1.96	0.47
2:mw:193:THR:HG21	2:oD:193:THR:CG2	2.45	0.47
2:mL:53:PHE:O	2:mL:255:ARG:NH2	2.43	0.47
2:mO:208:GLU:OE1	2:mO:210:ARG:NE	2.47	0.47
2:mO:230:SER:HB2	2:mO:234:LEU:HD23	1.96	0.47
2:mZ:86:VAL:O	2:mZ:202:GLN:N	2.46	0.47
2:nc:117:LEU:HD21	2:nc:211:TYR:HA	1.95	0.47
1:nf:58:PHE:CE1	1:nf:101:VAL:HG11	2.49	0.47
2:nq:230:SER:HB2	2:nq:234:LEU:HD23	1.96	0.47
2:nE:230:SER:HB2	2:nE:234:LEU:HD23	1.96	0.47
1:nJ:62:THR:OG1	1:nJ:100:LYS:O	2.27	0.47
2:nP:144:TYR:CG	2:nP:145:PRO:HD2	2.49	0.47
2:nQ:83:THR:HA	2:nQ:205:MET:HG2	1.97	0.47
2:of:278:VAL:HG21	2:of:295:VAL:O	2.15	0.47
2:op:6:PRO:HA	2:op:9:ILE:HG22	1.96	0.47
2:op:46:THR:HG22	2:op:74:GLN:HG2	1.96	0.47
2:oG:83:THR:HA	2:oG:205:MET:HG2	1.97	0.47
2:oH:278:VAL:HG21	2:oH:295:VAL:O	2.15	0.47
1:oQ:56:GLY:O	1:oQ:57:VAL:HG23	2.14	0.47
2:oT:144:TYR:CG	2:oT:145:PRO:HD2	2.49	0.47
2:ph:144:TYR:CG	2:ph:145:PRO:HD2	2.49	0.47
2:pj:278:VAL:HG21	2:pj:295:VAL:O	2.15	0.47
2:pk:203:VAL:HG12	2:pk:205:MET:HG3	1.96	0.47
2:px:278:VAL:HG21	2:px:295:VAL:O	2.15	0.47
2:qb:185:GLN:O	2:qb:205:MET:N	2.43	0.47
3:qg:15:ILE:HA	3:qg:18:ILE:HB	1.95	0.47
3:qi:31:VAL:HB	3:qi:32:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ql:211:ASP:N	4:ql:231:SER:O	2.45	0.47
5:qp:42:PRO:CD	6:qu:133:ASP:OD1	2.59	0.47
5:qr:235:ARG:NH2	5:qr:255:VAL:O	2.47	0.47
5:qx:398:TRP:CE3	5:qz:405:ILE:HD12	2.49	0.47
5:qz:398:TRP:CE3	5:qB:405:ILE:HD12	2.49	0.47
5:qD:96:ARG:CD	5:qF:114:LEU:CD2	2.81	0.47
5:qD:144:GLN:O	5:qD:144:GLN:CD	2.58	0.47
5:qF:140:GLU:O	5:qF:151:LEU:N	2.39	0.47
5:qF:235:ARG:NH2	5:qF:255:VAL:O	2.47	0.47
2:ag:193:THR:CG2	2:oc:193:THR:HG21	2.45	0.47
2:ag:237:VAL:O	2:ag:237:VAL:HG12	2.14	0.47
1:ap:103:ARG:O	2:dt:62:GLN:CB	2.63	0.47
1:aq:63:VAL:HG23	1:aq:99:LEU:CD1	2.42	0.47
2:ax:34:VAL:HG12	2:ax:263:LEU:HD21	1.96	0.47
2:ay:230:SER:HB2	2:ay:234:LEU:HD23	1.96	0.47
2:az:228:ALA:HB1	2:az:283:LEU:HG	1.97	0.47
2:aH:59:TRP:CH2	2:iW:199:ASP:HA	2.49	0.47
2:aI:193:THR:HG21	2:iW:193:THR:CG2	2.45	0.47
2:aJ:81:GLU:O	2:aL:57:ARG:N	2.39	0.47
2:aJ:281:GLN:OE1	2:aJ:281:GLN:N	2.44	0.47
2:aK:65:ILE:HG22	2:aK:66:LYS:N	2.30	0.47
2:aL:278:VAL:HG21	2:aL:295:VAL:O	2.15	0.47
2:aM:171:TYR:CZ	2:aM:175:THR:HG21	2.50	0.47
2:aM:208:GLU:OE1	2:aM:210:ARG:NE	2.47	0.47
2:aN:242:VAL:O	2:aN:246:MET:HG3	2.15	0.47
1:aU:100:LYS:N	2:iO:197:LYS:HE3	2.27	0.47
2:aX:63:ARG:NH2	2:ba:205:MET:SD	2.84	0.47
2:aY:83:THR:HG22	2:aY:84:VAL:N	2.30	0.47
2:ba:203:VAL:HG12	2:ba:205:MET:HG3	1.96	0.47
1:bf:63:VAL:HG23	1:bf:99:LEU:CD1	2.42	0.47
2:bj:59:TRP:CH2	2:dq:199:ASP:HA	2.49	0.47
2:bj:143:VAL:HG12	2:bj:145:PRO:HD2	1.95	0.47
1:br:67:CYS:HA	1:br:72:CYS:HA	1.95	0.47
1:bs:103:ARG:O	2:cb:62:GLN:CB	2.63	0.47
2:by:205:MET:CE	2:hT:63:ARG:NE	2.74	0.47
2:bP:208:GLU:OE1	2:bP:210:ARG:NE	2.47	0.47
2:bQ:97:GLY:N	5:qp:51:GLU:CG	2.74	0.47
2:bY:193:THR:CG2	2:dr:193:THR:HG21	2.45	0.47
2:bZ:193:THR:HG21	2:iI:193:THR:CG2	2.45	0.47
2:ce:228:ALA:HB1	2:ce:283:LEU:HG	1.97	0.47
2:co:294:LEU:HD23	2:co:294:LEU:H	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cp:83:THR:HG22	2:cp:84:VAL:N	2.30	0.47
1:cu:100:LYS:HB2	1:nL:100:LYS:HE3	1.92	0.47
2:cE:60:ILE:HG23	2:cE:60:ILE:O	2.14	0.47
2:cR:62:GLN:CB	1:po:103:ARG:O	2.63	0.47
2:cT:221:PHE:CG	2:cT:242:VAL:HG13	2.49	0.47
1:db:56:GLY:O	1:db:57:VAL:HG23	2.14	0.47
2:di:185:GLN:O	2:di:205:MET:N	2.43	0.47
2:dE:193:THR:CG2	2:eX:193:THR:HG21	2.45	0.47
2:dG:86:VAL:O	2:dG:202:GLN:N	2.46	0.47
2:dH:65:ILE:HG22	2:dH:66:LYS:N	2.30	0.47
2:dH:83:THR:HA	2:dH:205:MET:HG2	1.97	0.47
2:dK:242:VAL:O	2:dK:246:MET:HG3	2.15	0.47
1:dO:103:ARG:NH1	2:nP:61:GLY:CA	2.70	0.47
2:dS:6:PRO:HA	2:dS:9:ILE:HG22	1.96	0.47
2:dT:67:ASP:HB2	2:dY:4:ILE:HD11	1.97	0.47
2:ei:198:GLU:N	2:ei:198:GLU:OE1	2.48	0.47
2:ek:243:TYR:O	2:ek:247:ARG:HG2	2.15	0.47
2:em:242:VAL:O	2:em:246:MET:HG3	2.15	0.47
1:eo:67:CYS:HA	1:eo:72:CYS:HA	1.95	0.47
2:ex:62:GLN:CB	1:nI:103:ARG:O	2.62	0.47
1:eE:63:VAL:HG23	1:eE:99:LEU:CD1	2.42	0.47
1:eG:100:LYS:CE	1:gK:100:LYS:CB	2.92	0.47
2:eM:62:GLN:HE21	2:gV:197:LYS:HZ1	1.61	0.47
2:eX:67:ASP:HB2	2:fc:4:ILE:HD11	1.97	0.47
2:eZ:83:THR:HA	2:eZ:205:MET:HG2	1.97	0.47
2:fa:243:TYR:O	2:fa:247:ARG:HG2	2.15	0.47
2:fb:221:PHE:CG	2:fb:242:VAL:HG13	2.49	0.47
2:fk:230:SER:O	2:fk:231:THR:HG22	2.14	0.47
2:fp:221:PHE:CG	2:fp:242:VAL:HG13	2.49	0.47
1:fx:56:GLY:O	1:fx:57:VAL:HG23	2.14	0.47
2:fB:83:THR:HG22	2:fB:84:VAL:N	2.30	0.47
2:fD:171:TYR:CZ	2:fD:175:THR:HG21	2.50	0.47
1:fH:99:LEU:CA	1:gZ:102:GLU:OE1	2.28	0.47
2:fQ:243:TYR:O	2:fQ:247:ARG:HG2	2.15	0.47
2:gb:24:LEU:HD21	2:ih:257:LEU:HD22	1.96	0.47
2:gc:63:ARG:NH2	2:gf:205:MET:SD	2.84	0.47
2:ge:243:TYR:O	2:ge:247:ARG:HG2	2.15	0.47
2:gf:208:GLU:OE1	2:gf:210:ARG:NE	2.47	0.47
2:gg:55:LYS:HG3	2:gg:253:GLY:O	2.15	0.47
2:go:43:ALA:HB2	2:go:209:TYR:OH	2.15	0.47
2:go:193:THR:CG2	2:hT:193:THR:HG21	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gV:221:PHE:CG	2:gV:242:VAL:HG13	2.49	0.47
2:gV:230:SER:HB2	2:gV:234:LEU:HD23	1.96	0.47
2:hf:193:THR:HG21	2:kB:193:THR:CG2	2.45	0.47
2:hf:274:ALA:CB	2:hf:297:VAL:HG21	2.44	0.47
2:hh:83:THR:HG22	2:hh:84:VAL:N	2.30	0.47
2:ht:86:VAL:O	2:ht:202:GLN:N	2.46	0.47
2:hF:91:ILE:HD11	5:qx:178:PRO:CD	2.44	0.47
2:hF:237:VAL:O	2:hF:237:VAL:HG12	2.14	0.47
2:hJ:208:GLU:OE1	2:hJ:210:ARG:NE	2.47	0.47
2:hX:171:TYR:CZ	2:hX:175:THR:HG21	2.50	0.47
2:ig:43:ALA:O	2:ig:44:SER:OG	2.20	0.47
2:ig:46:THR:HG22	2:ig:74:GLN:HG2	1.96	0.47
2:ij:83:THR:HA	2:ij:205:MET:HG2	1.97	0.47
2:im:242:VAL:O	2:im:246:MET:HG3	2.15	0.47
2:iw:12:LEU:CD2	2:pZ:96:LEU:HD12	2.44	0.47
2:iA:228:ALA:HB1	2:iA:283:LEU:HG	1.97	0.47
2:iI:237:VAL:HG12	2:iI:237:VAL:O	2.14	0.47
2:iM:60:ILE:HG23	2:iM:60:ILE:O	2.14	0.47
2:iW:6:PRO:HA	2:iW:9:ILE:HG22	1.96	0.47
2:iX:24:LEU:HD21	2:jl:257:LEU:HD22	1.96	0.47
2:iZ:83:THR:HA	2:iZ:205:MET:HG2	1.97	0.47
2:jb:117:LEU:HD21	2:jb:211:TYR:HA	1.95	0.47
1:js:67:CYS:HA	1:js:72:CYS:HA	1.95	0.47
2:jA:198:GLU:N	2:jA:198:GLU:OE1	2.48	0.47
2:jD:171:TYR:CZ	2:jD:175:THR:HG21	2.50	0.47
2:jM:193:THR:CG2	2:pI:193:THR:HG21	2.45	0.47
2:jM:230:SER:O	2:jM:231:THR:HG22	2.14	0.47
2:jO:192:PHE:HB2	2:jO:195:MET:HE2	1.95	0.47
2:kb:257:LEU:HD22	2:ls:24:LEU:HD21	1.96	0.47
1:kn:56:GLY:O	1:kn:57:VAL:HG23	2.14	0.47
2:kr:60:ILE:HG23	2:kr:60:ILE:O	2.14	0.47
2:kE:65:ILE:HG22	2:kE:66:LYS:N	2.30	0.47
2:kP:237:VAL:O	2:kP:237:VAL:HG12	2.14	0.47
2:lg:83:THR:HG22	2:lg:84:VAL:N	2.29	0.47
2:li:171:TYR:CZ	2:li:175:THR:HG21	2.49	0.47
2:li:197:LYS:HZ1	2:np:62:GLN:HE21	1.61	0.47
2:ls:141:HIS:CD2	2:ls:150:THR:HG1	2.29	0.47
2:lw:117:LEU:HD21	2:lw:211:TYR:HA	1.95	0.47
2:lG:67:ASP:HB2	2:IL:4:ILE:HD11	1.97	0.47
2:lG:257:LEU:HD22	2:mY:24:LEU:HD21	1.96	0.47
1:lP:63:VAL:HG23	1:lP:99:LEU:CD1	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lZ:55:LYS:HG3	2:lZ:253:GLY:O	2.15	0.47
2:mh:6:PRO:HA	2:mh:9:ILE:HG22	1.96	0.47
2:mA:280:VAL:O	2:mA:289:ASN:ND2	2.44	0.47
2:mB:55:LYS:HG3	2:mB:253:GLY:O	2.15	0.47
2:mB:228:ALA:HB1	2:mB:283:LEU:HG	1.97	0.47
2:mB:242:VAL:O	2:mB:246:MET:HG3	2.15	0.47
1:mE:60:ARG:HH21	1:ng:99:LEU:HD21	0.59	0.47
2:mX:6:PRO:HA	2:mX:9:ILE:HG22	1.96	0.47
2:mX:230:SER:O	2:mX:231:THR:HG22	2.14	0.47
1:nk:56:GLY:O	1:nk:57:VAL:HG23	2.14	0.47
2:nm:57:ARG:NH2	2:nm:58:GLU:O	2.48	0.47
2:nm:67:ASP:HB2	2:nr:4:ILE:HD11	1.97	0.47
2:np:278:VAL:HG21	2:np:295:VAL:O	2.15	0.47
2:nq:171:TYR:CZ	2:nq:175:THR:HG21	2.50	0.47
1:ny:56:GLY:O	1:ny:57:VAL:HG23	2.14	0.47
2:nF:185:GLN:O	2:nF:205:MET:N	2.43	0.47
2:nN:230:SER:O	2:nN:231:THR:HG22	2.14	0.47
2:nS:203:VAL:HG12	2:nS:205:MET:HG3	1.96	0.47
1:nV:58:PHE:CE1	1:nV:101:VAL:HG11	2.49	0.47
2:oc:57:ARG:NH2	2:oc:58:GLU:O	2.48	0.47
2:od:198:GLU:N	2:od:198:GLU:OE1	2.48	0.47
1:om:103:ARG:HD2	2:pV:61:GLY:CA	2.40	0.47
2:op:43:ALA:HB2	2:op:209:TYR:OH	2.15	0.47
2:or:198:GLU:OE1	2:or:198:GLU:N	2.48	0.47
2:oH:34:VAL:HG12	2:oH:263:LEU:HD21	1.96	0.47
2:oX:242:VAL:O	2:oX:246:MET:HG3	2.15	0.47
2:pg:274:ALA:CB	2:pg:297:VAL:HG21	2.44	0.47
2:pj:60:ILE:HG23	2:pj:60:ILE:O	2.14	0.47
2:pt:43:ALA:HB2	2:pt:209:TYR:OH	2.15	0.47
2:pu:44:SER:OG	2:pu:75:ILE:O	2.21	0.47
2:pw:83:THR:HG22	2:pw:84:VAL:N	2.29	0.47
2:pH:143:VAL:HG12	2:pH:145:PRO:HD2	1.95	0.47
2:pJ:63:ARG:NH2	2:pM:205:MET:SD	2.84	0.47
2:pN:242:VAL:O	2:pN:246:MET:HG3	2.15	0.47
3:qg:78:VAL:HB	3:qg:141:LEU:HD22	1.96	0.47
3:qg:102:LEU:O	3:qg:106:VAL:HG23	2.14	0.47
3:qh:78:VAL:HG12	3:qh:79:VAL:N	2.30	0.47
4:qm:212:PRO:HG2	4:qn:41:VAL:HG21	1.96	0.47
4:qn:212:PRO:HG2	4:qo:41:VAL:HG21	1.96	0.47
6:qq:112:LEU:CD2	6:qs:58:LEU:HD13	0.62	0.47
6:qs:83:LEU:HD11	6:qs:89:VAL:HG11	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qt:144:GLN:O	5:qt:144:GLN:CD	2.58	0.47
6:qu:131:ARG:O	6:qu:131:ARG:HG2	2.14	0.47
5:qD:235:ARG:NH2	5:qD:255:VAL:O	2.47	0.47
6:qM:131:ARG:HG2	6:qM:131:ARG:O	2.14	0.47
1:ab:103:ARG:O	2:mM:62:GLN:CB	2.62	0.47
1:af:100:LYS:NZ	1:oi:100:LYS:CD	2.71	0.47
2:aj:83:THR:HA	2:aj:205:MET:HG2	1.97	0.47
2:ak:243:TYR:O	2:ak:247:ARG:HG2	2.15	0.47
2:al:197:LYS:HZ1	2:fC:62:GLN:HE21	1.61	0.47
2:al:221:PHE:CG	2:al:242:VAL:HG13	2.49	0.47
2:am:55:LYS:HG3	2:am:253:GLY:O	2.15	0.47
2:au:6:PRO:HA	2:au:9:ILE:HG22	1.96	0.47
2:au:59:TRP:CH2	2:ko:199:ASP:HA	2.49	0.47
2:au:199:ASP:HA	2:bL:59:TRP:CH2	2.49	0.47
2:au:237:VAL:O	2:au:237:VAL:HG12	2.14	0.47
2:av:144:TYR:CG	2:av:145:PRO:HD2	2.49	0.47
2:aw:62:GLN:CB	1:hN:103:ARG:O	2.62	0.47
2:aw:65:ILE:HG22	2:aw:66:LYS:N	2.30	0.47
2:aw:83:THR:HA	2:aw:205:MET:HG2	1.97	0.47
2:ax:243:TYR:O	2:ax:247:ARG:HG2	2.15	0.47
1:aD:63:VAL:HG23	1:aD:99:LEU:CD1	2.42	0.47
1:aE:63:VAL:HG12	1:aE:99:LEU:HD13	1.97	0.47
2:aH:62:GLN:OE1	1:iT:102:GLU:HG2	2.02	0.47
2:aI:257:LEU:HD22	2:kb:24:LEU:HD21	1.96	0.47
2:aJ:198:GLU:OE1	2:aJ:198:GLU:N	2.48	0.47
2:aK:62:GLN:CB	1:kK:103:ARG:O	2.62	0.47
2:aK:83:THR:HA	2:aK:205:MET:HG2	1.97	0.47
2:aK:83:THR:HG22	2:aK:84:VAL:N	2.29	0.47
2:aL:96:LEU:HD12	2:ht:12:LEU:CD2	2.44	0.47
1:aU:56:GLY:O	1:aU:57:VAL:HG23	2.14	0.47
1:aU:99:LEU:HD23	1:iP:102:GLU:CG	2.18	0.47
2:aV:43:ALA:HB2	2:aV:209:TYR:OH	2.15	0.47
2:aV:230:SER:O	2:aV:231:THR:HG22	2.14	0.47
2:aY:62:GLN:CB	1:ch:103:ARG:O	2.63	0.47
2:aY:83:THR:HA	2:aY:205:MET:HG2	1.97	0.47
2:aZ:243:TYR:O	2:aZ:247:ARG:HG2	2.15	0.47
2:bk:193:THR:HG21	2:dq:193:THR:CG2	2.45	0.47
2:bn:34:VAL:HG12	2:bn:263:LEU:HD21	1.96	0.47
1:bt:63:VAL:HG23	1:bt:99:LEU:CD1	2.42	0.47
2:bx:46:THR:HG22	2:bx:74:GLN:HG2	1.96	0.47
2:by:193:THR:HG21	2:hS:193:THR:CG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bz:53:PHE:O	2:bz:255:ARG:NH2	2.43	0.47
2:bC:208:GLU:OE1	2:bC:210:ARG:NE	2.47	0.47
1:bI:102:GLU:HG2	2:hF:62:GLN:OE1	2.02	0.47
2:bN:62:GLN:CB	1:gL:103:ARG:O	2.63	0.47
2:bO:243:TYR:O	2:bO:247:ARG:HG2	2.15	0.47
2:bP:171:TYR:CZ	2:bP:175:THR:HG21	2.50	0.47
2:bP:280:VAL:O	2:bP:289:ASN:ND2	2.44	0.47
2:bQ:55:LYS:HG3	2:bQ:253:GLY:O	2.15	0.47
2:bY:46:THR:HG22	2:bY:74:GLN:HG2	1.96	0.47
2:bY:59:TRP:CH2	2:iI:199:ASP:HA	2.49	0.47
2:bY:230:SER:O	2:bY:231:THR:HG22	2.14	0.47
2:bZ:257:LEU:HD22	2:dr:24:LEU:HD21	1.96	0.47
2:cb:65:ILE:HG22	2:cb:66:LYS:N	2.30	0.47
2:cn:257:LEU:HD22	2:iv:24:LEU:HD21	1.96	0.47
2:cq:60:ILE:HG23	2:cq:60:ILE:O	2.14	0.47
2:cr:208:GLU:OE1	2:cr:210:ARG:NE	2.47	0.47
1:cz:56:GLY:O	1:cz:57:VAL:HG23	2.14	0.47
2:cA:6:PRO:HA	2:cA:9:ILE:HG22	1.96	0.47
2:cA:193:THR:CG2	2:pg:193:THR:HG21	2.45	0.47
2:cA:199:ASP:HA	2:pf:59:TRP:CH2	2.49	0.47
2:cC:12:LEU:CD2	2:dW:96:LEU:HD12	2.44	0.47
2:cD:62:GLN:CB	1:dN:103:ARG:O	2.62	0.47
2:cD:65:ILE:HG22	2:cD:66:LYS:N	2.30	0.47
2:cE:278:VAL:HG21	2:cE:295:VAL:O	2.15	0.47
2:cG:228:ALA:HB1	2:cG:283:LEU:HG	1.97	0.47
2:cR:83:THR:HG22	2:cR:84:VAL:N	2.29	0.47
2:cU:242:VAL:O	2:cU:246:MET:HG3	2.15	0.47
2:dc:193:THR:CG2	2:eJ:193:THR:HG21	2.45	0.47
2:dc:237:VAL:O	2:dc:237:VAL:HG12	2.14	0.47
2:dd:42:THR:HG22	2:dd:43:ALA:N	2.30	0.47
2:dd:225:GLN:OE1	2:dd:225:GLN:N	2.45	0.47
2:de:12:LEU:CD2	2:gG:96:LEU:HD12	2.44	0.47
2:df:83:THR:HA	2:df:205:MET:HG2	1.97	0.47
2:dG:96:LEU:HD12	2:dG:12:LEU:CD2	2.44	0.47
2:dh:171:TYR:CZ	2:dh:175:THR:HG21	2.50	0.47
2:dh:203:VAL:HG12	2:dh:205:MET:HG3	1.96	0.47
1:dn:63:VAL:HG12	1:dn:99:LEU:HD13	1.97	0.47
2:dq:230:SER:O	2:dq:231:THR:HG22	2.14	0.47
2:dr:42:THR:HG22	2:dr:43:ALA:N	2.30	0.47
2:ds:144:TYR:CG	2:ds:145:PRO:HD2	2.49	0.47
2:du:278:VAL:HG21	2:du:295:VAL:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dw:228:ALA:HB1	2:dw:283:LEU:HG	1.97	0.47
1:dy:58:PHE:CE1	1:dy:101:VAL:HG11	2.49	0.47
2:dF:274:ALA:CB	2:dF:297:VAL:HG21	2.44	0.47
2:dG:53:PHE:O	2:dG:255:ARG:NH2	2.43	0.47
2:dH:83:THR:HG22	2:dH:84:VAL:N	2.29	0.47
2:dI:243:TYR:O	2:dI:247:ARG:HG2	2.15	0.47
2:dK:209:TYR:OH	2:pf:93:ASP:OD2	2.22	0.47
1:dP:63:VAL:HG12	1:dP:99:LEU:HD13	1.97	0.47
1:dR:99:LEU:HD23	1:oY:102:GLU:CG	2.19	0.47
2:dS:237:VAL:O	2:dS:237:VAL:HG12	2.14	0.47
2:dU:144:TYR:CG	2:dU:145:PRO:HD2	2.49	0.47
2:dU:198:GLU:OE1	2:dU:198:GLU:N	2.48	0.47
2:dV:95:ASN:C	2:dV:96:LEU:HD22	2.40	0.47
2:dY:228:ALA:HB1	2:dY:283:LEU:HG	1.97	0.47
1:eb:99:LEU:HD23	1:ft:102:GLU:HB3	1.96	0.47
2:eg:46:THR:HG22	2:eg:74:GLN:HG2	1.96	0.47
2:eg:59:TRP:CH2	2:eu:199:ASP:HA	2.49	0.47
2:eg:199:ASP:HA	2:nz:59:TRP:CH2	2.49	0.47
2:eh:24:LEU:HD21	2:ev:257:LEU:HD22	1.96	0.47
2:eh:67:ASP:HB2	2:em:4:ILE:HD11	1.97	0.47
2:ej:62:GLN:CB	1:ft:103:ARG:O	2.63	0.47
2:ej:83:THR:HA	2:ej:205:MET:HG2	1.97	0.47
2:el:230:SER:HB2	2:el:234:LEU:HD23	1.96	0.47
1:eo:100:LYS:CB	1:nZ:100:LYS:CE	2.92	0.47
1:es:100:LYS:CE	1:nV:100:LYS:CB	2.92	0.47
2:ev:67:ASP:HB2	2:eA:4:ILE:HD11	1.97	0.47
2:ex:65:ILE:HG22	2:ex:66:LYS:N	2.30	0.47
2:ey:243:TYR:O	2:ey:247:ARG:HG2	2.15	0.47
1:eH:56:GLY:O	1:eH:57:VAL:HG23	2.14	0.47
2:eI:6:PRO:HA	2:eI:9:ILE:HG22	1.96	0.47
2:eI:193:THR:CG2	2:gp:193:THR:HG21	2.45	0.47
2:eK:53:PHE:O	2:eK:255:ARG:NH2	2.43	0.47
2:eK:198:GLU:OE1	2:eK:198:GLU:N	2.48	0.47
2:eL:65:ILE:HG22	2:eL:66:LYS:N	2.30	0.47
2:eN:203:VAL:HG12	2:eN:205:MET:HG3	1.96	0.47
2:eN:230:SER:HB2	2:eN:234:LEU:HD23	1.96	0.47
1:eQ:58:PHE:CE1	1:eQ:101:VAL:HG11	2.49	0.47
2:eW:6:PRO:HA	2:eW:9:ILE:HG22	1.96	0.47
2:eW:43:ALA:HB2	2:eW:209:TYR:OH	2.15	0.47
2:fa:60:ILE:HG23	2:fa:60:ILE:O	2.14	0.47
2:fa:278:VAL:HG21	2:fa:295:VAL:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fk:6:PRO:HA	2:fk:9:ILE:HG22	1.96	0.47
2:fk:43:ALA:HB2	2:fk:209:TYR:OH	2.15	0.47
2:fn:83:THR:HG22	2:fn:84:VAL:N	2.30	0.47
2:fo:243:TYR:O	2:fo:247:ARG:HG2	2.15	0.47
1:fu:63:VAL:HG23	1:fu:99:LEU:CD1	2.42	0.47
2:fy:193:THR:CG2	2:nm:193:THR:HG21	2.45	0.47
2:fy:199:ASP:HA	2:nl:59:TRP:CH2	2.49	0.47
2:fA:198:GLU:OE1	2:fA:198:GLU:N	2.48	0.47
2:fB:62:GLN:CB	1:nW:103:ARG:O	2.62	0.47
2:fE:228:ALA:HB1	2:fE:283:LEU:HG	1.97	0.47
2:fE:242:VAL:O	2:fE:246:MET:HG3	2.15	0.47
1:fJ:98:LEU:O	2:IU:197:LYS:NZ	2.47	0.47
2:fO:198:GLU:N	2:fO:198:GLU:OE1	2.48	0.47
2:fP:83:THR:HG22	2:fP:84:VAL:N	2.29	0.47
2:fR:221:PHE:CG	2:fR:242:VAL:HG13	2.49	0.47
1:fU:100:LYS:CB	1:mt:100:LYS:CE	2.92	0.47
2:ga:43:ALA:HB2	2:ga:209:TYR:OH	2.15	0.47
2:ga:230:SER:O	2:ga:231:THR:HG22	2.14	0.47
2:gc:81:GLU:O	2:ge:57:ARG:N	2.39	0.47
2:gc:144:TYR:CG	2:gc:145:PRO:HD2	2.49	0.47
2:gd:62:GLN:CB	1:mc:103:ARG:O	2.62	0.47
1:gk:63:VAL:HG23	1:gk:99:LEU:CD1	2.42	0.47
2:go:237:VAL:O	2:go:237:VAL:HG12	2.14	0.47
2:gp:257:LEU:HD22	2:hT:24:LEU:HD21	1.96	0.47
2:gu:55:LYS:HG3	2:gu:253:GLY:O	2.15	0.47
2:gC:143:VAL:HG12	2:gC:145:PRO:HD2	1.95	0.47
2:gD:42:THR:HG22	2:gD:43:ALA:N	2.30	0.47
2:gD:67:ASP:HB2	2:gI:4:ILE:HD11	1.97	0.47
2:gG:278:VAL:HG21	2:gG:295:VAL:O	2.15	0.47
2:gI:242:VAL:O	2:gI:246:MET:HG3	2.15	0.47
2:gQ:193:THR:CG2	2:ih:193:THR:HG21	2.45	0.47
2:gQ:199:ASP:HA	2:ig:59:TRP:CH2	2.49	0.47
2:gS:144:TYR:CG	2:gS:145:PRO:HD2	2.49	0.47
2:gW:228:ALA:HB1	2:gW:283:LEU:HG	1.97	0.47
2:he:193:THR:CG2	2:lG:193:THR:HG21	2.45	0.47
2:hh:62:GLN:CB	1:mq:103:ARG:O	2.63	0.47
2:hh:65:ILE:HG22	2:hh:66:LYS:N	2.30	0.47
2:hh:83:THR:HA	2:hh:205:MET:HG2	1.97	0.47
2:hj:171:TYR:CZ	2:hj:175:THR:HG21	2.50	0.47
2:hj:208:GLU:OE1	2:hj:210:ARG:NE	2.47	0.47
2:hk:209:TYR:OH	2:kB:93:ASP:OD2	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hk:242:VAL:O	2:hk:246:MET:HG3	2.15	0.47
1:hr:56:GLY:O	1:hr:57:VAL:HG23	2.14	0.47
2:hs:43:ALA:HB2	2:hs:209:TYR:OH	2.15	0.47
2:ht:198:GLU:N	2:ht:198:GLU:OE1	2.48	0.47
2:hu:83:THR:HA	2:hu:205:MET:HG2	1.97	0.47
2:hw:203:VAL:HG12	2:hw:205:MET:HG3	1.96	0.47
1:hD:100:LYS:CE	1:kj:100:LYS:CB	2.92	0.47
2:hH:83:THR:HA	2:hH:205:MET:HG2	1.97	0.47
2:hK:55:LYS:HG3	2:hK:253:GLY:O	2.15	0.47
2:hK:185:GLN:O	2:hK:205:MET:N	2.43	0.47
1:hO:63:VAL:HG23	1:hO:99:LEU:CD1	2.42	0.47
1:hP:63:VAL:HG12	1:hP:99:LEU:HD13	1.97	0.47
2:hS:6:PRO:HA	2:hS:9:ILE:HG22	1.96	0.47
2:hS:43:ALA:HB2	2:hS:209:TYR:OH	2.15	0.47
2:hW:34:VAL:HG12	2:hW:263:LEU:HD21	1.96	0.47
2:hY:242:VAL:O	2:hY:246:MET:HG3	2.15	0.47
2:ig:230:SER:O	2:ig:231:THR:HG22	2.14	0.47
2:ij:65:ILE:HG22	2:ij:66:LYS:N	2.30	0.47
2:ik:34:VAL:HG12	2:ik:263:LEU:HD21	1.96	0.47
2:il:171:TYR:CZ	2:il:175:THR:HG21	2.50	0.47
2:il:208:GLU:OE1	2:il:210:ARG:NE	2.47	0.47
1:it:99:LEU:HD23	1:jT:102:GLU:CG	2.19	0.47
2:ix:83:THR:HA	2:ix:205:MET:HG2	1.97	0.47
2:iz:171:TYR:CZ	2:iz:175:THR:HG21	2.50	0.47
2:iz:203:VAL:HG12	2:iz:205:MET:HG3	1.96	0.47
2:iA:55:LYS:HG3	2:iA:253:GLY:O	2.15	0.47
2:iA:242:VAL:O	2:iA:246:MET:HG3	2.15	0.47
2:iK:281:GLN:OE1	2:iK:281:GLN:N	2.44	0.47
2:iL:65:ILE:HG22	2:iL:66:LYS:N	2.30	0.47
2:iW:230:SER:O	2:iW:231:THR:HG22	2.14	0.47
2:jb:171:TYR:CZ	2:jb:175:THR:HG21	2.49	0.47
2:jc:228:ALA:HB1	2:jc:283:LEU:HG	1.97	0.47
2:jk:237:VAL:HG12	2:jk:237:VAL:O	2.14	0.47
2:jQ:228:ALA:HB1	2:jQ:283:LEU:HG	1.97	0.47
2:jy:46:THR:HG22	2:jy:74:GLN:HG2	1.96	0.47
2:jj:199:ASP:HA	2:ld:59:TRP:CH2	2.49	0.47
2:jA:294:LEU:H	2:jA:294:LEU:HD23	1.77	0.47
2:jB:83:THR:HG22	2:jB:84:VAL:N	2.29	0.47
2:jE:228:ALA:HB1	2:jE:283:LEU:HG	1.97	0.47
2:jE:242:VAL:O	2:jE:246:MET:HG3	2.15	0.47
1:jL:100:LYS:HZ1	1:pO:100:LYS:CE	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jN:257:LEU:HD22	2:pI:24:LEU:HD21	1.96	0.47
2:jN:274:ALA:CB	2:jN:297:VAL:HG21	2.44	0.47
2:jQ:278:VAL:HG21	2:jQ:295:VAL:O	2.15	0.47
2:jR:221:PHE:CG	2:jR:242:VAL:HG13	2.49	0.47
1:jW:62:THR:OG1	1:jW:100:LYS:O	2.27	0.47
2:ka:193:THR:CG2	2:ls:193:THR:HG21	2.45	0.47
2:kb:57:ARG:NH2	2:kb:58:GLU:O	2.48	0.47
2:kc:53:PHE:O	2:kc:255:ARG:NH2	2.43	0.47
2:kd:65:ILE:HG22	2:kd:66:LYS:N	2.30	0.47
2:kd:83:THR:HG22	2:kd:84:VAL:N	2.30	0.47
2:kg:228:ALA:HB1	2:kg:283:LEU:HG	1.97	0.47
1:kk:63:VAL:HG23	1:kk:99:LEU:CD1	2.42	0.47
2:ko:31:TYR:OH	5:qF:177:SER:C	2.57	0.47
2:kq:95:ASN:C	2:kq:96:LEU:HD22	2.40	0.47
2:kr:243:TYR:O	2:kr:247:ARG:HG2	2.15	0.47
2:ks:171:TYR:CZ	2:ks:175:THR:HG21	2.50	0.47
2:ks:208:GLU:OE1	2:ks:210:ARG:NE	2.47	0.47
2:ks:221:PHE:CG	2:ks:242:VAL:HG13	2.49	0.47
2:kC:57:ARG:NH2	2:kC:58:GLU:O	2.48	0.47
2:kD:144:TYR:CG	2:kD:145:PRO:HD2	2.49	0.47
2:kE:62:GLN:CB	1:lO:103:ARG:O	2.62	0.47
2:kT:278:VAL:HG21	2:kT:295:VAL:O	2.15	0.47
2:kU:230:SER:HB2	2:kU:234:LEU:HD23	1.96	0.47
2:kV:55:LYS:HG3	2:kV:253:GLY:O	2.15	0.47
1:kZ:63:VAL:HG23	1:kZ:99:LEU:CD1	2.42	0.47
2:ld:46:THR:HG22	2:ld:74:GLN:HG2	1.96	0.47
1:ll:58:PHE:CE1	1:ll:101:VAL:HG11	2.49	0.47
2:ls:67:ASP:HB2	2:lx:4:ILE:HD11	1.97	0.47
2:lt:198:GLU:N	2:lt:198:GLU:OE1	2.48	0.47
2:lv:278:VAL:HG21	2:lv:295:VAL:O	2.15	0.47
2:lw:171:TYR:CZ	2:lw:175:THR:HG21	2.50	0.47
2:lw:230:SER:HB2	2:lw:234:LEU:HD23	1.96	0.47
2:lF:43:ALA:HB2	2:lF:209:TYR:OH	2.15	0.47
2:lF:193:THR:CG2	2:mY:193:THR:HG21	2.45	0.47
2:lK:230:SER:HB2	2:lK:234:LEU:HD23	1.96	0.47
2:lL:55:LYS:HG3	2:lL:253:GLY:O	2.15	0.47
2:lV:198:GLU:N	2:lV:198:GLU:OE1	2.48	0.47
2:lW:83:THR:HG22	2:lW:84:VAL:N	2.29	0.47
2:lX:60:ILE:HG23	2:lX:60:ILE:O	2.14	0.47
2:lY:221:PHE:CG	2:lY:242:VAL:HG13	2.49	0.47
2:mh:230:SER:O	2:mh:231:THR:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mi:193:THR:HG21	2:mv:193:THR:CG2	2.45	0.47
2:ml:243:TYR:O	2:ml:247:ARG:HG2	2.15	0.47
2:mn:209:TYR:OH	2:mv:93:ASP:OD2	2.22	0.47
2:mv:6:PRO:HA	2:mv:9:ILE:HG22	1.96	0.47
2:mv:46:THR:HG22	2:mv:74:GLN:HG2	1.96	0.47
2:mv:237:VAL:HG12	2:mv:237:VAL:O	2.14	0.47
2:mz:60:ILE:HG23	2:mz:60:ILE:O	2.14	0.47
2:mA:203:VAL:HG12	2:mA:205:MET:HG3	1.96	0.47
2:mA:230:SER:HB2	2:mA:234:LEU:HD23	1.96	0.47
2:mB:36:THR:O	2:mB:175:THR:OG1	2.18	0.47
2:mB:185:GLN:O	2:mB:205:MET:N	2.43	0.47
1:mD:100:LYS:CB	1:OP:100:LYS:CE	2.92	0.47
1:mG:98:LEU:O	2:OQ:197:LYS:NZ	2.47	0.47
1:mI:99:LEU:HG	1:OW:102:GLU:OE2	1.74	0.47
2:mJ:43:ALA:HB2	2:mJ:209:TYR:OH	2.15	0.47
2:mJ:230:SER:O	2:mJ:231:THR:HG22	2.14	0.47
2:mJ:237:VAL:HG12	2:mJ:237:VAL:O	2.14	0.47
2:mL:144:TYR:CG	2:mL:145:PRO:HD2	2.49	0.47
2:mO:203:VAL:HG12	2:mO:205:MET:HG3	1.96	0.47
2:mX:46:THR:HG22	2:mX:74:GLN:HG2	1.96	0.47
2:mY:67:ASP:HB2	2:ND:4:ILE:HD11	1.97	0.47
2:mZ:144:TYR:CG	2:mZ:145:PRO:HD2	2.49	0.47
2:mZ:198:GLU:OE1	2:mZ:198:GLU:N	2.48	0.47
2:nb:243:TYR:O	2:nb:247:ARG:HG2	2.15	0.47
2:nl:237:VAL:HG12	2:nl:237:VAL:O	2.14	0.47
2:nm:274:ALA:CB	2:nm:297:VAL:HG21	2.44	0.47
2:no:65:ILE:HG22	2:no:66:LYS:N	2.30	0.47
2:nr:242:VAL:O	2:nr:246:MET:HG3	2.15	0.47
2:nA:42:THR:HG22	2:nA:43:ALA:N	2.30	0.47
2:nC:65:ILE:HG22	2:nC:66:LYS:N	2.30	0.47
2:nC:83:THR:HA	2:nC:205:MET:HG2	1.97	0.47
2:nE:171:TYR:CZ	2:nE:175:THR:HG21	2.50	0.47
2:nO:57:ARG:NH2	2:nO:58:GLU:O	2.48	0.47
2:nO:67:ASP:HB2	2:nT:4:ILE:HD11	1.97	0.47
2:nP:198:GLU:OE1	2:nP:198:GLU:N	2.48	0.47
2:nQ:62:GLN:CB	1:PA:103:ARG:O	2.62	0.47
2:nR:60:ILE:HG23	2:nR:60:ILE:O	2.14	0.47
2:nR:243:TYR:O	2:nR:247:ARG:HG2	2.15	0.47
2:nS:171:TYR:CZ	2:nS:175:THR:HG21	2.50	0.47
2:nS:221:PHE:CG	2:nS:242:VAL:HG13	2.49	0.47
1:nU:102:GLU:CG	1:OA:99:LEU:HD23	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oa:56:GLY:O	1:oa:57:VAL:HG23	2.14	0.47
2:ob:6:PRO:HA	2:ob:9:ILE:HG22	1.96	0.47
2:og:203:VAL:HG12	2:og:205:MET:HG3	1.96	0.47
2:oh:185:GLN:O	2:oh:205:MET:N	2.43	0.47
1:oo:56:GLY:O	1:oo:57:VAL:HG23	2.14	0.47
2:op:237:VAL:O	2:op:237:VAL:HG12	2.14	0.47
2:or:192:PHE:HB2	2:or:195:MET:HE2	1.95	0.47
2:ot:34:VAL:HG12	2:ot:263:LEU:HD21	1.96	0.47
2:ou:171:TYR:CZ	2:ou:175:THR:HG21	2.50	0.47
2:ou:203:VAL:HG12	2:ou:205:MET:HG3	1.96	0.47
2:ou:230:SER:HB2	2:ou:234:LEU:HD23	1.96	0.47
2:ov:228:ALA:HB1	2:ov:283:LEU:HG	1.97	0.47
2:oF:86:VAL:O	2:oF:202:GLN:N	2.46	0.47
2:oI:117:LEU:HD21	2:oI:211:TYR:HA	1.95	0.47
2:oI:171:TYR:CZ	2:oI:175:THR:HG21	2.50	0.47
2:oI:203:VAL:HG12	2:oI:205:MET:HG3	1.96	0.47
2:oI:208:GLU:OE1	2:oI:210:ARG:NE	2.47	0.47
2:oI:280:VAL:O	2:oI:289:ASN:ND2	2.44	0.47
2:oJ:242:VAL:O	2:oJ:246:MET:HG3	2.15	0.47
1:oN:62:THR:OG1	1:oN:100:LYS:O	2.27	0.47
2:oR:43:ALA:HB2	2:oR:209:TYR:OH	2.15	0.47
2:oT:86:VAL:O	2:oT:202:GLN:N	2.46	0.47
2:oU:83:THR:HA	2:oU:205:MET:HG2	1.97	0.47
2:oV:278:VAL:HG21	2:oV:295:VAL:O	2.15	0.47
2:oW:117:LEU:HD21	2:oW:211:TYR:HA	1.95	0.47
2:oX:228:ALA:HB1	2:oX:283:LEU:HG	1.97	0.47
2:pg:67:ASP:HB2	2:pl:4:ILE:HD11	1.97	0.47
2:pi:83:THR:HA	2:pi:205:MET:HG2	1.97	0.47
2:pj:34:VAL:HG12	2:pj:263:LEU:HD21	1.96	0.47
2:pj:243:TYR:O	2:pj:247:ARG:HG2	2.15	0.47
2:pk:171:TYR:CZ	2:pk:175:THR:HG21	2.50	0.47
2:pk:208:GLU:OE1	2:pk:210:ARG:NE	2.47	0.47
1:pn:58:PHE:CE1	1:pn:101:VAL:HG11	2.49	0.47
2:pt:61:GLY:CA	1:pE:103:ARG:HD2	2.40	0.47
2:pv:86:VAL:O	2:pv:202:GLN:N	2.46	0.47
2:pv:198:GLU:N	2:pv:198:GLU:OE1	2.48	0.47
2:pw:65:ILE:HG22	2:pw:66:LYS:N	2.30	0.47
2:pw:83:THR:HA	2:pw:205:MET:HG2	1.97	0.47
2:px:60:ILE:HG23	2:px:60:ILE:O	2.14	0.47
1:pE:63:VAL:HG12	1:pE:99:LEU:HD13	1.97	0.47
2:pH:46:THR:HG22	2:pH:74:GLN:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pI:274:ALA:CB	2:pI:297:VAL:HG21	2.44	0.47
2:pJ:198:GLU:N	2:pJ:198:GLU:OE1	2.48	0.47
2:pJ:281:GLN:OE1	2:pJ:281:GLN:N	2.44	0.47
2:pK:65:ILE:HG22	2:pK:66:LYS:N	2.30	0.47
2:pM:117:LEU:HD21	2:pM:211:TYR:HA	1.95	0.47
2:pM:230:SER:HB2	2:pM:234:LEU:HD23	1.96	0.47
2:pV:43:ALA:HB2	2:pV:209:TYR:OH	2.15	0.47
2:pV:237:VAL:O	2:pV:237:VAL:HG12	2.14	0.47
2:qb:228:ALA:HB1	2:qb:283:LEU:HG	1.97	0.47
3:qe:65:GLY:CA	4:qm:10:GLN:HE21	2.19	0.47
3:qe:66:GLN:O	4:qm:10:GLN:CD	2.58	0.47
3:qe:78:VAL:HG12	3:qe:79:VAL:N	2.30	0.47
3:qe:118:VAL:HG11	3:qf:127:GLN:HE22	1.80	0.47
3:qg:65:GLY:C	4:qk:10:GLN:CG	2.71	0.47
3:qg:117:ASP:O	4:ql:6:TYR:OH	2.25	0.47
3:qh:66:GLN:C	4:qj:194:LEU:HD11	2.36	0.47
4:qj:83:THR:HG21	4:qj:228:MET:HE1	1.96	0.47
4:qj:255:LEU:HG	4:qo:172:THR:HG22	1.96	0.47
5:qp:235:ARG:NH2	5:qp:255:VAL:O	2.47	0.47
5:qr:140:GLU:O	5:qr:151:LEU:N	2.40	0.47
5:qx:144:GLN:CD	5:qx:144:GLN:O	2.58	0.47
5:qF:96:ARG:CD	5:qH:114:LEU:CD2	2.81	0.47
5:qF:398:TRP:CE3	5:qH:405:ILE:HD12	2.49	0.47
5:qH:144:GLN:O	5:qH:144:GLN:CD	2.58	0.47
6:qI:131:ARG:O	6:qI:131:ARG:HG2	2.14	0.47
5:qJ:144:GLN:CD	5:qJ:144:GLN:O	2.58	0.47
5:qL:144:GLN:CD	5:qL:144:GLN:O	2.58	0.47
6:qM:133:ASP:OD1	6:qM:134:TRP:N	2.45	0.47
1:aa:100:LYS:CB	1:fw:100:LYS:CE	2.92	0.47
1:ar:103:ARG:HD2	2:bL:61:GLY:CA	2.40	0.47
1:as:100:LYS:CE	1:gi:100:LYS:CB	2.92	0.47
2:au:43:ALA:HB2	2:au:209:TYR:OH	2.15	0.47
2:ay:117:LEU:HD21	2:ay:211:TYR:HA	1.95	0.47
2:aH:46:THR:HG22	2:aH:74:GLN:HG2	1.96	0.47
2:aK:95:ASN:C	2:aK:96:LEU:HD22	2.40	0.47
1:aP:67:CYS:HA	1:aP:72:CYS:HA	1.96	0.47
2:aW:193:THR:HG21	2:bj:193:THR:CG2	2.45	0.47
2:aW:205:MET:CE	2:bk:63:ARG:NE	2.74	0.47
1:be:60:ARG:HH21	1:kj:99:LEU:HD21	0.59	0.47
2:bk:24:LEU:HD21	2:dr:257:LEU:HD22	1.96	0.47
2:bk:274:ALA:CB	2:bk:297:VAL:HG21	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bm:65:ILE:HG22	2:bm:66:LYS:N	2.30	0.47
1:bu:102:GLU:CD	2:dc:62:GLN:OE1	2.53	0.47
1:bv:100:LYS:CE	1:dy:100:LYS:CB	2.92	0.47
2:bA:83:THR:HA	2:bA:205:MET:HG2	1.97	0.47
2:bC:171:TYR:CZ	2:bC:175:THR:HG21	2.50	0.47
2:bN:83:THR:HA	2:bN:205:MET:HG2	1.97	0.47
2:bQ:242:VAL:O	2:bQ:246:MET:HG3	2.15	0.47
1:bT:60:ARG:HH21	1:eR:99:LEU:HD21	0.59	0.47
1:bV:63:VAL:HG12	1:bV:99:LEU:HD13	1.97	0.47
2:bZ:75:ILE:HG22	2:bZ:76:THR:N	2.30	0.47
2:cc:278:VAL:HG21	2:cc:295:VAL:O	2.15	0.47
1:ch:99:LEU:HD21	1:jf:60:ARG:HH21	0.59	0.47
2:cm:43:ALA:HB2	2:cm:209:TYR:OH	2.15	0.47
2:cm:193:THR:CG2	2:iv:193:THR:HG21	2.45	0.47
2:cp:65:ILE:HG22	2:cp:66:LYS:N	2.30	0.47
2:cp:95:ASN:C	2:cp:96:LEU:HD22	2.40	0.47
2:cs:242:VAL:O	2:cs:246:MET:HG3	2.15	0.47
2:cD:95:ASN:C	2:cD:96:LEU:HD22	2.40	0.47
2:cG:242:VAL:O	2:cG:246:MET:HG3	2.15	0.47
2:cO:150:THR:OG1	2:cO:220:GLY:O	2.18	0.47
2:cQ:198:GLU:N	2:cQ:198:GLU:OE1	2.48	0.47
2:cU:228:ALA:HB1	2:cU:283:LEU:HG	1.97	0.47
1:cW:67:CYS:HA	1:cW:72:CYS:HA	1.95	0.47
2:dc:43:ALA:HB2	2:dc:209:TYR:OH	2.15	0.47
2:dd:67:ASP:HB2	2:di:4:ILE:HD11	1.97	0.47
2:df:83:THR:HG22	2:df:84:VAL:N	2.29	0.47
1:dD:99:LEU:HD23	1:fd:102:GLU:CG	2.19	0.47
2:dS:43:ALA:HB2	2:dS:209:TYR:OH	2.15	0.47
2:dV:83:THR:HA	2:dV:205:MET:HG2	1.97	0.47
2:el:280:VAL:O	2:el:289:ASN:ND2	2.44	0.47
2:em:228:ALA:HB1	2:em:283:LEU:HG	1.97	0.47
1:eH:100:LYS:NZ	1:gv:100:LYS:CD	2.71	0.47
2:eI:199:ASP:HA	2:go:59:TRP:CH2	2.49	0.47
2:eL:83:THR:HA	2:eL:205:MET:HG2	1.97	0.47
2:eL:95:ASN:C	2:eL:96:LEU:HD22	2.40	0.47
2:eO:242:VAL:O	2:eO:246:MET:HG3	2.15	0.47
2:eW:230:SER:O	2:eW:231:THR:HG22	2.14	0.47
1:ff:103:ARG:O	2:ij:62:GLN:CB	2.63	0.47
2:fl:67:ASP:HB2	2:fq:4:ILE:HD11	1.97	0.47
2:fq:228:ALA:HB1	2:fq:283:LEU:HG	1.97	0.47
2:fz:274:ALA:CB	2:fz:297:VAL:HG21	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fD:230:SER:HB2	2:fD:234:LEU:HD23	1.96	0.47
1:fH:102:GLU:HB3	1:mq:99:LEU:HD23	1.96	0.47
2:fN:193:THR:HG21	2:ga:193:THR:CG2	2.45	0.47
2:fP:65:ILE:HG22	2:fP:66:LYS:N	2.30	0.47
2:fQ:96:LEU:HD12	2:mx:12:LEU:CD2	2.44	0.47
2:fQ:278:VAL:HG21	2:fQ:295:VAL:O	2.15	0.47
1:fV:103:ARG:O	2:nC:62:GLN:CB	2.62	0.47
2:gd:83:THR:HA	2:gd:205:MET:HG2	1.97	0.47
2:gf:203:VAL:HG12	2:gf:205:MET:HG3	1.96	0.47
2:gg:228:ALA:HB1	2:gg:283:LEU:HG	1.97	0.47
1:gj:103:ARG:O	2:gT:62:GLN:CB	2.62	0.47
2:gF:65:ILE:HG22	2:gF:66:LYS:N	2.30	0.47
2:gF:83:THR:HG22	2:gF:84:VAL:N	2.30	0.47
2:gQ:6:PRO:HA	2:gQ:9:ILE:HG22	1.96	0.47
2:he:43:ALA:HB2	2:he:209:TYR:OH	2.15	0.47
2:hF:141:HIS:CD2	2:hF:150:THR:HG1	2.28	0.47
2:hF:257:LEU:HD22	2:lG:24:LEU:HD21	1.96	0.47
1:hn:60:ARG:HH21	1:kK:99:LEU:HD21	0.59	0.47
2:hs:199:ASP:HA	2:ko:59:TRP:CH2	2.49	0.47
2:hs:230:SER:O	2:hs:231:THR:HG22	2.14	0.47
2:ht:144:TYR:CG	2:ht:145:PRO:HD2	2.49	0.47
2:hF:6:PRO:HA	2:hF:9:ILE:HG22	1.96	0.47
2:hG:198:GLU:N	2:hG:198:GLU:OE1	2.48	0.47
2:hT:42:THR:HG22	2:hT:43:ALA:N	2.30	0.47
2:ig:237:VAL:O	2:ig:237:VAL:HG12	2.14	0.47
2:ii:86:VAL:O	2:ii:202:GLN:N	2.46	0.47
2:ix:65:ILE:HG22	2:ix:66:LYS:N	2.30	0.47
2:iJ:75:ILE:HG22	2:iJ:76:THR:N	2.30	0.47
2:iM:278:VAL:HG21	2:iM:295:VAL:O	2.15	0.47
2:iN:171:TYR:CZ	2:iN:175:THR:HG21	2.50	0.47
2:iY:63:ARG:NH2	2:jb:205:MET:SD	2.84	0.47
2:ja:60:ILE:HG23	2:ja:60:ILE:O	2.15	0.47
2:ja:278:VAL:HG21	2:ja:295:VAL:O	2.15	0.47
2:jk:43:ALA:HB2	2:jk:209:TYR:OH	2.15	0.47
2:jq:242:VAL:O	2:jq:246:MET:HG3	2.15	0.47
1:jx:56:GLY:O	1:jx:57:VAL:HG23	2.14	0.47
2:jy:6:PRO:HA	2:jy:9:ILE:HG22	1.96	0.47
2:jy:193:THR:CG2	2:le:193:THR:HG21	2.45	0.47
2:jB:62:GLN:CB	1:mS:103:ARG:O	2.62	0.47
2:jC:60:ILE:HG23	2:jC:60:ILE:O	2.14	0.47
1:jI:63:VAL:HG23	1:jI:99:LEU:CD1	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jJ:63:VAL:HG12	1:jJ:99:LEU:HD13	1.97	0.47
2:jM:43:ALA:HB2	2:jM:209:TYR:OH	2.15	0.47
2:jO:144:TYR:CG	2:jO:145:PRO:HD2	2.49	0.47
1:kl:63:VAL:HG12	1:kl:99:LEU:HD13	1.97	0.47
2:kq:83:THR:HA	2:kq:205:MET:HG2	1.97	0.47
2:ks:171:TYR:OH	2:ks:175:THR:OG1	2.12	0.47
2:kt:228:ALA:HB1	2:kt:283:LEU:HG	1.97	0.47
1:kw:99:LEU:HD23	1:lO:102:GLU:HB3	1.96	0.47
1:kA:56:GLY:O	1:kA:57:VAL:HG23	2.14	0.47
2:kB:46:THR:HG22	2:kB:74:GLN:HG2	1.96	0.47
2:kC:193:THR:HG21	2:kP:193:THR:CG2	2.45	0.47
2:kF:278:VAL:HG21	2:kF:295:VAL:O	2.15	0.47
2:kR:144:TYR:CG	2:kR:145:PRO:HD2	2.49	0.47
1:kY:103:ARG:O	2:lI:62:GLN:CB	2.63	0.47
2:le:141:HIS:CD2	2:le:150:THR:HG1	2.31	0.47
2:lg:65:ILE:HG22	2:lg:66:LYS:N	2.30	0.47
2:lg:83:THR:HA	2:lg:205:MET:HG2	1.97	0.47
2:lh:243:TYR:O	2:lh:247:ARG:HG2	2.15	0.47
2:lu:83:THR:HA	2:lu:205:MET:HG2	1.97	0.47
2:lv:243:TYR:O	2:lv:247:ARG:HG2	2.15	0.47
2:lx:242:VAL:O	2:lx:246:MET:HG3	2.15	0.47
1:lz:67:CYS:HA	1:lz:72:CYS:HA	1.96	0.47
2:lF:230:SER:O	2:lF:231:THR:HG22	2.14	0.47
2:lG:57:ARG:NH2	2:lG:58:GLU:O	2.48	0.47
2:lY:280:VAL:O	2:lY:289:ASN:ND2	2.44	0.47
2:mj:198:GLU:N	2:mj:198:GLU:OE1	2.48	0.47
2:mm:280:VAL:O	2:mm:289:ASN:ND2	2.44	0.47
1:mo:100:LYS:CE	1:mu:100:LYS:HZ1	2.28	0.47
2:mv:43:ALA:HB2	2:mv:209:TYR:OH	2.15	0.47
2:my:83:THR:HA	2:my:205:MET:HG2	1.97	0.47
1:mE:103:ARG:O	2:no:62:GLN:CB	2.62	0.47
1:mG:102:GLU:HG2	2:op:62:GLN:OE1	2.02	0.47
2:mK:141:HIS:CD2	2:mK:150:THR:HG1	2.29	0.47
2:nm:42:THR:HG22	2:nm:43:ALA:N	2.30	0.47
2:nB:198:GLU:N	2:nB:198:GLU:OE1	2.48	0.47
2:oq:57:ARG:NH2	2:oq:58:GLU:O	2.48	0.47
2:oR:6:PRO:HA	2:oR:9:ILE:HG22	1.96	0.47
2:oV:243:TYR:O	2:oV:247:ARG:HG2	2.15	0.47
2:oX:55:LYS:HG3	2:oX:253:GLY:O	2.15	0.47
2:ph:38:ILE:O	2:ph:38:ILE:HG13	2.15	0.47
2:pi:95:ASN:C	2:pi:96:LEU:HD22	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pt:230:SER:O	2:pt:231:THR:HG22	2.14	0.47
2:pu:193:THR:HG21	2:pH:193:THR:CG2	2.45	0.47
2:py:171:TYR:CZ	2:py:175:THR:HG21	2.50	0.47
2:pL:278:VAL:HG21	2:pL:295:VAL:O	2.15	0.47
1:pR:63:VAL:HG23	1:pR:99:LEU:CD1	2.42	0.47
2:pV:6:PRO:HA	2:pV:9:ILE:HG22	1.96	0.47
2:pV:46:THR:HG22	2:pV:74:GLN:HG2	1.96	0.47
2:pY:83:THR:HG22	2:pY:84:VAL:N	2.29	0.47
3:qf:64:GLY:C	4:qk:220:SER:O	2.57	0.47
3:qg:25:LEU:HD11	6:qG:82:VAL:H	1.80	0.47
3:qg:68:ALA:HA	4:qk:8:TYR:CE2	2.47	0.47
3:qi:78:VAL:HB	3:qi:141:LEU:HD22	1.96	0.47
3:qi:84:TYR:CZ	6:qM:20:GLU:HG2	2.42	0.47
4:qj:50:TYR:HH	4:qo:238:THR:HG22	1.76	0.47
4:ql:64:LYS:O	4:qm:55:ALA:HB1	2.15	0.47
4:ql:64:LYS:HZ2	4:qm:53:GLN:HG2	1.80	0.47
5:qr:398:TRP:CE3	5:qt:405:ILE:HD12	2.49	0.47
5:qv:235:ARG:NH2	5:qv:255:VAL:O	2.47	0.47
5:qz:144:GLN:O	5:qz:144:GLN:CD	2.58	0.47
5:qz:235:ARG:NH2	5:qz:255:VAL:O	2.47	0.47
5:qD:398:TRP:CE3	5:qF:405:ILE:HD12	2.49	0.47
5:qH:380:MET:CE	5:qH:403:LEU:HD21	2.44	0.47
2:ah:42:THR:HG22	2:ah:43:ALA:N	2.30	0.47
2:ah:193:THR:HG21	2:or:193:THR:CG2	2.45	0.47
2:au:62:GLN:OE1	1:kl:102:GLU:CD	2.53	0.47
2:ax:278:VAL:HG21	2:ax:295:VAL:O	2.15	0.47
2:ay:171:TYR:OH	2:ay:175:THR:OG1	2.12	0.47
2:aI:42:THR:HG22	2:aI:43:ALA:N	2.30	0.47
2:aX:144:TYR:CG	2:aX:145:PRO:HD2	2.49	0.47
2:ba:171:TYR:CZ	2:ba:175:THR:HG21	2.50	0.47
1:bg:63:VAL:HG12	1:bg:99:LEU:HD13	1.97	0.47
2:bm:83:THR:HA	2:bm:205:MET:HG2	1.97	0.47
2:bm:95:ASN:C	2:bm:96:LEU:HD22	2.40	0.47
2:bn:278:VAL:HG21	2:bn:295:VAL:O	2.15	0.47
2:bx:193:THR:CG2	2:dd:193:THR:HG21	2.45	0.47
2:bA:95:ASN:C	2:bA:96:LEU:HD22	2.40	0.47
1:bI:63:VAL:HG12	1:bI:99:LEU:HD13	1.97	0.47
1:bI:98:LEU:HD12	2:bP:63:ARG:O	2.15	0.47
2:bN:65:ILE:HG22	2:bN:66:LYS:N	2.30	0.47
2:bY:237:VAL:O	2:bY:237:VAL:HG12	2.14	0.47
2:cc:62:GLN:HG2	2:hX:197:LYS:HE3	1.91	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ce:100:GLY:N	2:ce:101:PRO:CD	2.78	0.47
2:cn:42:THR:HG22	2:cn:43:ALA:N	2.30	0.47
2:cr:203:VAL:HG12	2:cr:205:MET:HG3	1.96	0.47
2:cB:75:ILE:HG22	2:cB:76:THR:N	2.30	0.47
2:cD:83:THR:HA	2:cD:205:MET:HG2	1.97	0.47
2:cF:117:LEU:HD21	2:cF:211:TYR:HA	1.95	0.47
1:cL:63:VAL:HG12	1:cL:99:LEU:HD13	1.97	0.47
2:cT:203:VAL:HG12	2:cT:205:MET:HG3	1.96	0.47
2:cT:230:SER:HB2	2:cT:234:LEU:HD23	1.96	0.47
2:dc:230:SER:O	2:dc:231:THR:HG22	2.14	0.47
2:di:100:GLY:N	2:di:101:PRO:CD	2.78	0.47
2:di:228:ALA:HB1	2:di:283:LEU:HG	1.97	0.47
2:dq:43:ALA:HB2	2:dq:209:TYR:OH	2.15	0.47
2:dr:274:ALA:CB	2:dr:297:VAL:HG21	2.44	0.47
2:du:243:TYR:O	2:du:247:ARG:HG2	2.15	0.47
2:dF:75:ILE:HG22	2:dF:76:THR:N	2.30	0.47
2:dG:38:ILE:HG13	2:dG:38:ILE:O	2.15	0.47
2:dH:95:ASN:C	2:dH:96:LEU:HD22	2.40	0.47
2:dI:60:ILE:HG23	2:dI:60:ILE:O	2.14	0.47
2:dJ:208:GLU:OE1	2:dJ:210:ARG:NE	2.47	0.47
2:dK:228:ALA:HB1	2:dK:283:LEU:HG	1.97	0.47
1:dP:102:GLU:HG2	2:oR:62:GLN:OE1	2.02	0.47
2:dS:199:ASP:HA	2:oR:59:TRP:CH2	2.49	0.47
2:dT:42:THR:HG22	2:dT:43:ALA:N	2.30	0.47
2:dT:63:ARG:NE	2:oS:205:MET:CE	2.74	0.47
1:ed:63:VAL:HG12	1:ed:99:LEU:HD13	1.97	0.47
2:eh:75:ILE:HG22	2:eh:76:THR:N	2.30	0.47
2:ev:24:LEU:HD21	2:gD:257:LEU:HD22	1.96	0.47
1:eF:63:VAL:HG12	1:eF:99:LEU:HD13	1.97	0.47
2:eK:38:ILE:O	2:eK:38:ILE:HG13	2.15	0.47
2:eM:34:VAL:HG12	2:eM:263:LEU:HD21	1.96	0.47
2:eN:89:THR:N	2:eN:200:ASP:OD2	2.36	0.47
2:eY:38:ILE:O	2:eY:38:ILE:HG13	2.15	0.47
2:fc:55:LYS:HG3	2:fc:253:GLY:O	2.15	0.47
1:fj:56:GLY:O	1:fj:57:VAL:HG23	2.14	0.47
2:fl:42:THR:HG22	2:fl:43:ALA:N	2.30	0.47
2:fo:96:LEU:HD12	2:ii:12:LEU:CD2	2.44	0.47
2:fy:230:SER:O	2:fy:231:THR:HG22	2.14	0.47
2:fz:42:THR:HG22	2:fz:43:ALA:N	2.30	0.47
2:fD:171:TYR:OH	2:fD:175:THR:OG1	2.12	0.47
2:fM:59:TRP:CH2	2:ga:199:ASP:HA	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fO:12:LEU:CD2	2:hi:96:LEU:HD12	2.44	0.47
2:ga:59:TRP:CH2	2:ig:199:ASP:HA	2.49	0.47
1:gh:100:LYS:CE	1:if:100:LYS:HZ1	2.27	0.47
2:gp:42:THR:HG22	2:gp:43:ALA:N	2.30	0.47
2:gq:198:GLU:N	2:gq:198:GLU:OE1	2.48	0.47
2:gr:95:ASN:C	2:gr:96:LEU:HD22	2.40	0.47
2:gC:43:ALA:HB2	2:gC:209:TYR:OH	2.15	0.47
2:gI:100:GLY:N	2:gI:101:PRO:CD	2.78	0.47
2:gQ:59:TRP:CH2	2:IT:199:ASP:HA	2.49	0.47
2:gT:65:ILE:HG22	2:gT:66:LYS:N	2.30	0.47
2:gV:171:TYR:CZ	2:gV:175:THR:HG21	2.50	0.47
2:gW:100:GLY:N	2:gW:101:PRO:CD	2.78	0.47
2:hi:60:ILE:HG23	2:hi:60:ILE:O	2.14	0.47
2:hu:95:ASN:C	2:hu:96:LEU:HD22	2.40	0.47
2:hw:221:PHE:CG	2:hw:242:VAL:HG13	2.49	0.47
1:hz:100:LYS:CB	1:kN:100:LYS:CE	2.92	0.47
2:hX:230:SER:HB2	2:hX:234:LEU:HD23	1.96	0.47
2:il:203:VAL:HG12	2:il:205:MET:HG3	1.96	0.47
1:ir:63:VAL:HG12	1:ir:99:LEU:HD13	1.97	0.47
2:iv:75:ILE:HG22	2:iv:76:THR:N	2.30	0.47
2:ix:95:ASN:C	2:ix:96:LEU:HD22	2.40	0.47
2:iy:34:VAL:HG12	2:iy:263:LEU:HD21	1.96	0.47
2:iy:243:TYR:O	2:iy:247:ARG:HG2	2.15	0.47
2:iK:264:LEU:HB2	2:iK:295:VAL:HG11	1.97	0.47
2:iL:83:THR:HG22	2:iL:84:VAL:N	2.30	0.47
2:iM:85:GLY:O	2:pv:2:ALA:N	2.48	0.47
2:iX:42:THR:HG22	2:iX:43:ALA:N	2.30	0.47
2:iX:141:HIS:CD2	2:iX:150:THR:HG1	2.31	0.47
2:iX:274:ALA:CB	2:iX:297:VAL:HG21	2.44	0.47
1:jh:63:VAL:HG12	1:jh:99:LEU:HD13	1.97	0.47
2:jp:171:TYR:CZ	2:jp:175:THR:HG21	2.50	0.47
2:jp:203:VAL:HG12	2:jp:205:MET:HG3	1.96	0.47
2:jp:230:SER:HB2	2:jp:234:LEU:HD23	1.96	0.47
2:jy:62:GLN:OE1	1:pS:102:GLU:CD	2.53	0.47
2:jy:237:VAL:O	2:jy:237:VAL:HG12	2.14	0.47
2:jA:12:LEU:CD2	2:nb:96:LEU:HD12	2.44	0.47
2:jB:65:ILE:HG22	2:jB:66:LYS:N	2.30	0.47
2:jE:55:LYS:HG3	2:jE:253:GLY:O	2.15	0.47
1:jF:100:LYS:CE	1:pU:100:LYS:HZ1	2.27	0.47
2:jS:228:ALA:HB1	2:jS:283:LEU:HG	1.97	0.47
2:kd:95:ASN:C	2:kd:96:LEU:HD22	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ko:184:TYR:CZ	5:qH:30:LYS:HD2	2.49	0.47
2:kt:55:LYS:HG3	2:kt:253:GLY:O	2.15	0.47
2:kH:228:ALA:HB1	2:kH:283:LEU:HG	1.97	0.47
2:kV:100:GLY:N	2:kV:101:PRO:CD	2.78	0.47
2:lr:46:THR:HG22	2:lr:74:GLN:HG2	1.96	0.47
2:ls:42:THR:HG22	2:ls:43:ALA:N	2.30	0.47
1:lE:56:GLY:O	1:lE:57:VAL:HG23	2.14	0.47
2:lT:230:SER:O	2:lT:231:THR:HG22	2.14	0.47
2:lU:42:THR:HG22	2:lU:43:ALA:N	2.30	0.47
2:mj:144:TYR:CG	2:mj:145:PRO:HD2	2.49	0.47
2:mn:144:TYR:HH	2:mn:254:GLY:H	1.61	0.47
2:mx:198:GLU:N	2:mx:198:GLU:OE1	2.48	0.47
2:mA:117:LEU:HD21	2:mA:211:TYR:HA	1.95	0.47
2:mJ:193:THR:CG2	2:oq:193:THR:HG21	2.45	0.47
2:mK:75:ILE:HG22	2:mK:76:THR:N	2.30	0.47
2:mN:60:ILE:HG23	2:mN:60:ILE:O	2.14	0.47
2:mN:278:VAL:HG21	2:mN:295:VAL:O	2.15	0.47
2:mY:42:THR:HG22	2:mY:43:ALA:N	2.30	0.47
2:na:83:THR:HG22	2:na:84:VAL:N	2.30	0.47
2:nd:228:ALA:HB1	2:nd:283:LEU:HG	1.97	0.47
2:nm:75:ILE:HG22	2:nm:76:THR:N	2.30	0.47
2:nn:38:ILE:O	2:nn:38:ILE:HG13	2.15	0.47
2:nr:228:ALA:HB1	2:nr:283:LEU:HG	1.97	0.47
2:nz:237:VAL:O	2:nz:237:VAL:HG12	2.14	0.47
2:nD:34:VAL:HG12	2:nD:263:LEU:HD21	1.96	0.47
2:nF:55:LYS:HG3	2:nF:253:GLY:O	2.15	0.47
2:nN:43:ALA:HB2	2:nN:209:TYR:OH	2.15	0.47
2:nN:59:TRP:CH2	2:ob:199:ASP:HA	2.49	0.47
2:nP:38:ILE:O	2:nP:38:ILE:HG13	2.15	0.47
2:nP:86:VAL:O	2:nP:202:GLN:N	2.46	0.47
2:oe:95:ASN:C	2:oe:96:LEU:HD22	2.40	0.47
2:of:34:VAL:HG12	2:of:263:LEU:HD21	1.96	0.47
2:os:65:ILE:HG22	2:os:66:LYS:N	2.30	0.47
2:ot:278:VAL:HG21	2:ot:295:VAL:O	2.15	0.47
2:ov:100:GLY:N	2:ov:101:PRO:CD	2.78	0.47
2:oD:43:ALA:HB2	2:oD:209:TYR:OH	2.15	0.47
2:oR:46:THR:HG22	2:oR:74:GLN:HG2	1.96	0.47
2:oT:198:GLU:N	2:oT:198:GLU:OE1	2.48	0.47
1:pn:67:CYS:HA	1:pn:72:CYS:HA	1.96	0.47
2:pu:197:LYS:NZ	1:pE:98:LEU:O	2.47	0.47
2:px:243:TYR:O	2:px:247:ARG:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pN:228:ALA:HB1	2:pN:283:LEU:HG	1.97	0.47
2:pY:95:ASN:C	2:pY:96:LEU:HD22	2.40	0.47
2:qb:242:VAL:O	2:qb:246:MET:HG3	2.15	0.47
3:qd:67:ARG:N	4:qn:8:TYR:CD2	2.83	0.47
6:qA:133:ASP:OD1	6:qA:134:TRP:N	2.45	0.47
5:qL:140:GLU:O	5:qL:151:LEU:N	2.39	0.47
2:ai:198:GLU:OE1	2:ai:198:GLU:N	2.48	0.47
2:am:228:ALA:HB1	2:am:283:LEU:HG	1.97	0.47
2:au:230:SER:O	2:au:231:THR:HG22	2.14	0.47
2:aJ:2:ALA:N	2:kT:85:GLY:O	2.48	0.47
2:aM:203:VAL:HG12	2:aM:205:MET:HG3	1.96	0.47
2:aW:67:ASP:HB2	2:bb:4:ILE:HD11	1.97	0.47
2:aZ:85:GLY:O	2:jm:2:ALA:N	2.48	0.47
2:ba:192:PHE:CZ	2:iL:196:THR:HG21	2.42	0.47
1:be:60:ARG:NH2	1:kj:99:LEU:CD1	2.52	0.47
2:bl:2:ALA:N	2:ja:85:GLY:O	2.48	0.47
2:bm:62:GLN:CB	1:iR:103:ARG:O	2.63	0.47
2:bp:100:GLY:N	2:bp:101:PRO:CD	2.78	0.47
2:bp:228:ALA:HB1	2:bp:283:LEU:HG	1.97	0.47
2:by:24:LEU:HD21	2:hT:257:LEU:HD22	1.96	0.47
2:by:197:LYS:NZ	1:hP:98:LEU:O	2.47	0.47
2:bD:242:VAL:O	2:bD:246:MET:HG3	2.15	0.47
2:bQ:95:ASN:CG	5:qp:47:ARG:CZ	2.86	0.47
2:bQ:228:ALA:HB1	2:bQ:283:LEU:HG	1.97	0.47
1:bT:103:ARG:O	2:eZ:62:GLN:CB	2.63	0.47
2:bY:62:GLN:OE1	1:iF:102:GLU:HG2	2.02	0.47
2:bZ:42:THR:HG22	2:bZ:43:ALA:N	2.30	0.47
2:ca:86:VAL:O	2:ca:202:GLN:N	2.46	0.47
2:ce:55:LYS:HG3	2:ce:253:GLY:O	2.15	0.47
1:cj:63:VAL:HG12	1:cj:99:LEU:HD13	1.97	0.47
1:cx:63:VAL:HG12	1:cx:99:LEU:HD13	1.97	0.47
2:cA:59:TRP:CH2	2:cO:199:ASP:HA	2.49	0.47
2:cB:42:THR:HG22	2:cB:43:ALA:N	2.30	0.47
2:cO:46:THR:HG22	2:cO:74:GLN:HG2	1.96	0.47
2:cP:205:MET:CE	2:eX:63:ARG:NE	2.74	0.47
2:cQ:63:ARG:NH2	2:cT:205:MET:SD	2.84	0.47
1:cX:102:GLU:HB3	1:dz:99:LEU:HD23	1.96	0.47
1:cX:103:ARG:O	2:dH:62:GLN:CB	2.62	0.47
2:dd:75:ILE:HG22	2:dd:76:THR:N	2.30	0.47
2:dg:60:ILE:HG23	2:dg:60:ILE:O	2.15	0.47
2:dg:85:GLY:O	2:dG:2:ALA:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:di:242:VAL:O	2:di:246:MET:HG3	2.15	0.47
2:dq:46:THR:HG22	2:dq:74:GLN:HG2	1.96	0.47
2:dt:83:THR:HA	2:dt:205:MET:HG2	1.97	0.47
2:dt:83:THR:HG22	2:dt:84:VAL:N	2.30	0.47
2:dt:95:ASN:C	2:dt:96:LEU:HD22	2.40	0.47
2:dw:30:THR:CG2	2:dw:298:LEU:HD13	2.45	0.47
2:dS:43:ALA:O	2:dS:44:SER:OG	2.20	0.47
2:dS:193:THR:CG2	2:oS:193:THR:HG21	2.45	0.47
2:dU:2:ALA:N	2:pL:85:GLY:O	2.48	0.47
2:dV:62:GLN:CB	1:pC:103:ARG:O	2.62	0.47
2:dX:230:SER:HB2	2:dX:234:LEU:HD23	1.96	0.47
2:eg:193:THR:CG2	2:nA:193:THR:HG21	2.45	0.47
2:eh:42:THR:HG22	2:eh:43:ALA:N	2.30	0.47
2:eh:193:THR:HG21	2:eu:193:THR:CG2	2.45	0.47
2:eh:257:LEU:HD22	2:nA:24:LEU:HD21	1.97	0.47
2:ek:60:ILE:HG23	2:ek:60:ILE:O	2.14	0.47
2:eu:46:THR:HG22	2:eu:74:GLN:HG2	1.96	0.47
2:ev:75:ILE:HG22	2:ev:76:THR:N	2.30	0.47
2:ex:83:THR:HA	2:ex:205:MET:HG2	1.97	0.47
2:ez:197:LYS:HZ1	2:of:62:GLN:HE21	1.61	0.47
2:eA:228:ALA:HB1	2:eA:283:LEU:HG	1.97	0.47
1:eF:98:LEU:HD12	2:eN:63:ARG:O	2.15	0.47
2:eN:171:TYR:CZ	2:eN:175:THR:HG21	2.50	0.47
2:eY:198:GLU:N	2:eY:198:GLU:OE1	2.48	0.47
2:fk:59:TRP:CH2	2:nz:199:ASP:HA	2.49	0.47
2:fl:57:ARG:NH2	2:fl:58:GLU:O	2.48	0.47
2:fo:60:ILE:HG23	2:fo:60:ILE:O	2.14	0.47
2:fo:85:GLY:O	2:ii:2:ALA:N	2.48	0.47
2:fo:278:VAL:HG21	2:fo:295:VAL:O	2.15	0.47
2:fp:230:SER:HB2	2:fp:234:LEU:HD23	1.96	0.47
1:fv:98:LEU:HD12	2:fD:63:ARG:O	2.15	0.47
2:FB:65:ILE:HG22	2:FB:66:LYS:N	2.30	0.47
1:fI:63:VAL:HG23	1:fI:99:LEU:CD1	2.42	0.47
2:fN:257:LEU:HD22	2:IU:24:LEU:HD21	1.96	0.47
2:fO:2:ALA:N	2:hi:85:GLY:O	2.48	0.47
2:FR:117:LEU:HD21	2:FR:211:TYR:HA	1.95	0.47
2:fS:228:ALA:HB1	2:fS:283:LEU:HG	1.97	0.47
1:fY:100:LYS:CE	1:mp:100:LYS:CB	2.92	0.47
2:gd:83:THR:HG22	2:gd:84:VAL:N	2.29	0.47
2:gg:242:VAL:O	2:gg:246:MET:HG3	2.15	0.47
1:gj:102:GLU:HB3	1:gL:99:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gs:278:VAL:HG21	2:gs:295:VAL:O	2.15	0.47
2:gu:228:ALA:HB1	2:gu:283:LEU:HG	1.97	0.47
2:gH:171:TYR:CZ	2:gH:175:THR:HG21	2.50	0.47
2:gI:55:LYS:HG3	2:gI:253:GLY:O	2.15	0.47
2:gR:24:LEU:HD21	2:IU:257:LEU:HD22	1.97	0.47
2:gS:198:GLU:N	2:gS:198:GLU:OE1	2.48	0.47
1:gY:100:LYS:CB	1:oB:100:LYS:CE	2.92	0.47
2:hf:42:THR:HG22	2:hf:43:ALA:N	2.30	0.47
2:hg:38:ILE:O	2:hg:38:ILE:HG13	2.15	0.47
2:ht:38:ILE:HG13	2:ht:38:ILE:O	2.15	0.47
1:hA:103:ARG:O	2:IW:62:GLN:CB	2.62	0.47
1:hE:56:GLY:O	1:hE:57:VAL:HG23	2.14	0.47
2:hF:230:SER:O	2:hF:231:THR:HG22	2.14	0.47
2:hJ:197:LYS:HZ1	2:kT:62:GLN:HE21	1.62	0.47
2:hJ:280:VAL:O	2:hJ:289:ASN:ND2	2.44	0.47
1:hP:98:LEU:HD12	2:hX:63:ARG:O	2.15	0.47
2:hU:198:GLU:N	2:hU:198:GLU:OE1	2.48	0.47
1:ic:63:VAL:HG23	1:ic:99:LEU:CD1	2.42	0.47
2:im:185:GLN:O	2:im:205:MET:N	2.43	0.47
1:ir:98:LEU:HD12	2:iz:63:ARG:O	2.15	0.47
1:it:56:GLY:O	1:it:57:VAL:HG23	2.14	0.47
2:iu:6:PRO:HA	2:iu:9:ILE:HG22	1.96	0.47
2:iu:230:SER:O	2:iu:231:THR:HG22	2.14	0.47
1:iD:103:ARG:O	2:pw:62:GLN:CB	2.62	0.47
2:iI:43:ALA:HB2	2:iI:209:TYR:OH	2.15	0.47
2:iM:243:TYR:O	2:iM:247:ARG:HG2	2.15	0.47
1:iV:56:GLY:O	1:iV:57:VAL:HG23	2.14	0.47
2:jk:6:PRO:HA	2:jk:9:ILE:HG22	1.96	0.47
2:jl:42:THR:HG22	2:jl:43:ALA:N	2.30	0.47
2:jl:274:ALA:CB	2:jl:297:VAL:HG21	2.44	0.47
2:jn:65:ILE:HG22	2:jn:66:LYS:N	2.30	0.47
1:jt:103:ARG:O	2:kd:62:GLN:CB	2.63	0.47
2:jz:193:THR:HG21	2:pV:193:THR:CG2	2.45	0.47
2:jC:278:VAL:HG21	2:jC:295:VAL:O	2.15	0.47
2:jO:2:ALA:N	2:oV:85:GLY:O	2.48	0.47
2:jQ:243:TYR:O	2:jQ:247:ARG:HG2	2.15	0.47
2:kb:75:ILE:HG22	2:kb:76:THR:N	2.30	0.47
2:ko:184:TYR:CE2	5:qH:30:LYS:CD	2.95	0.47
2:kB:43:ALA:HB2	2:kB:209:TYR:OH	2.15	0.47
2:kE:83:THR:HA	2:kE:205:MET:HG2	1.97	0.47
2:kE:95:ASN:C	2:kE:96:LEU:HD22	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kH:242:VAL:O	2:kH:246:MET:HG3	2.15	0.47
2:kQ:75:ILE:HG22	2:kQ:76:THR:N	2.30	0.47
2:kV:228:ALA:HB1	2:kV:283:LEU:HG	1.97	0.47
2:ld:193:THR:CG2	2:mK:193:THR:HG21	2.45	0.47
2:lf:264:LEU:HB2	2:lf:295:VAL:HG11	1.97	0.47
2:li:230:SER:HB2	2:li:234:LEU:HD23	1.96	0.47
2:lj:55:LYS:HG3	2:lj:253:GLY:O	2.15	0.47
2:lr:230:SER:O	2:lr:231:THR:HG22	2.14	0.47
2:IL:30:THR:CG2	2:IL:298:LEU:HD13	2.45	0.47
2:IL:228:ALA:HB1	2:IL:283:LEU:HG	1.97	0.47
2:IV:264:LEU:HB2	2:IV:295:VAL:HG11	1.97	0.47
2:IY:171:TYR:CZ	2:IY:175:THR:HG21	2.50	0.47
2:IZ:100:GLY:N	2:IZ:101:PRO:CD	2.78	0.47
2:IZ:228:ALA:HB1	2:IZ:283:LEU:HG	1.97	0.47
1:mg:56:GLY:O	1:mg:57:VAL:HG23	2.14	0.47
2:mi:75:ILE:HG22	2:mi:76:THR:N	2.30	0.47
2:mk:95:ASN:C	2:mk:96:LEU:HD22	2.40	0.47
1:ms:98:LEU:HD12	2:mA:63:ARG:O	2.15	0.47
2:mB:100:GLY:N	2:mB:101:PRO:CD	2.78	0.47
1:mE:102:GLU:HB3	1:ng:99:LEU:HD23	1.96	0.47
2:mK:63:ARG:HE	2:oq:205:MET:HE2	1.72	0.47
2:mK:67:ASP:HB2	2:mP:4:ILE:HD11	1.97	0.47
2:mL:86:VAL:O	2:mL:202:GLN:N	2.46	0.47
2:mN:243:TYR:O	2:mN:247:ARG:HG2	2.15	0.47
2:nd:185:GLN:O	2:nd:205:MET:N	2.43	0.47
2:nm:141:HIS:CD2	2:nm:150:THR:HG1	2.32	0.47
2:nO:197:LYS:NZ	1:nY:98:LEU:O	2.47	0.47
2:nP:264:LEU:HB2	2:nP:295:VAL:HG11	1.97	0.47
2:nR:34:VAL:HG12	2:nR:263:LEU:HD21	1.96	0.47
2:oe:83:THR:HA	2:oe:205:MET:HG2	1.97	0.47
2:of:243:TYR:O	2:of:247:ARG:HG2	2.15	0.47
2:og:171:TYR:CZ	2:og:175:THR:HG21	2.50	0.47
2:oh:55:LYS:HG3	2:oh:253:GLY:O	2.15	0.47
1:ok:102:GLU:HB3	1:oM:99:LEU:HD23	1.96	0.47
2:ot:85:GLY:O	2:oT:2:ALA:N	2.48	0.47
2:ot:243:TYR:O	2:ot:247:ARG:HG2	2.15	0.47
2:ov:185:GLN:O	2:ov:205:MET:N	2.43	0.47
2:oD:237:VAL:O	2:oD:237:VAL:HG12	2.14	0.47
2:oF:198:GLU:OE1	2:oF:198:GLU:N	2.48	0.47
2:oG:65:ILE:HG22	2:oG:66:LYS:N	2.30	0.47
2:oR:230:SER:O	2:oR:231:THR:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:pc:63:VAL:HG12	1:pc:99:LEU:HD13	1.97	0.47
2:pf:43:ALA:HB2	2:pf:209:TYR:OH	2.15	0.47
2:ph:198:GLU:OE1	2:ph:198:GLU:N	2.48	0.47
2:pl:228:ALA:HB1	2:pl:283:LEU:HG	1.97	0.47
2:pK:95:ASN:C	2:pK:96:LEU:HD22	2.40	0.47
1:pS:63:VAL:HG12	1:pS:99:LEU:HD13	1.97	0.47
2:pW:42:THR:HG22	2:pW:43:ALA:N	2.30	0.47
2:pW:75:ILE:HG22	2:pW:76:THR:N	2.30	0.47
3:qd:127:GLN:HE22	3:qi:118:VAL:HG11	1.80	0.47
3:qg:67:ARG:N	4:qk:8:TYR:HD2	2.13	0.47
3:qh:31:VAL:HB	3:qh:32:PRO:HD3	1.95	0.47
4:qj:211:ASP:N	4:qj:231:SER:O	2.45	0.47
4:qk:64:LYS:O	4:ql:55:ALA:HB1	2.15	0.47
4:qn:64:LYS:O	4:qo:55:ALA:HB1	2.15	0.47
4:qo:85:TYR:O	4:qo:180:ALA:N	2.48	0.47
6:qq:58:LEU:HD13	6:qM:112:LEU:CD2	0.62	0.47
6:qA:112:LEU:CD2	6:qC:58:LEU:HD12	1.00	0.47
5:qB:96:ARG:CD	5:qD:114:LEU:CD2	2.81	0.47
5:qJ:235:ARG:NH2	5:qJ:255:VAL:O	2.47	0.47
2:aj:62:GLN:CB	1:ng:103:ARG:O	2.62	0.46
2:ak:278:VAL:HG21	2:ak:295:VAL:O	2.15	0.46
2:al:171:TYR:CZ	2:al:175:THR:HG21	2.50	0.46
2:am:30:THR:CG2	2:am:298:LEU:HD13	2.46	0.46
2:au:181:PRO:HB2	5:qL:31:GLU:HG2	1.95	0.46
2:aJ:38:ILE:O	2:aJ:38:ILE:HG13	2.15	0.46
1:aQ:60:ARG:HH21	1:jf:99:LEU:HD21	0.59	0.46
2:aV:193:THR:CG2	2:iJ:193:THR:HG21	2.45	0.46
2:aV:237:VAL:O	2:aV:237:VAL:HG12	2.14	0.46
2:aW:42:THR:HG22	2:aW:43:ALA:N	2.30	0.46
2:aY:65:ILE:HG22	2:aY:66:LYS:N	2.30	0.46
2:aY:95:ASN:C	2:aY:96:LEU:HD22	2.40	0.46
2:bl:264:LEU:HB2	2:bl:295:VAL:HG11	1.97	0.46
2:bp:55:LYS:HG3	2:bp:253:GLY:O	2.15	0.46
2:bx:61:GLY:CA	1:hP:103:ARG:HD2	2.40	0.46
2:by:42:THR:HG22	2:by:43:ALA:N	2.30	0.46
2:bz:2:ALA:N	2:fa:85:GLY:O	2.48	0.46
2:bA:65:ILE:HG22	2:bA:66:LYS:N	2.30	0.46
2:bD:100:GLY:N	2:bD:101:PRO:CD	2.78	0.46
2:bL:43:ALA:HB2	2:bL:209:TYR:OH	2.15	0.46
2:bL:230:SER:O	2:bL:231:THR:HG22	2.14	0.46
2:bO:85:GLY:O	2:gq:2:ALA:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bZ:24:LEU:HD21	2:iJ:257:LEU:HD22	1.96	0.46
2:bZ:197:LYS:NZ	1:iF:98:LEU:O	2.47	0.46
2:ca:198:GLU:OE1	2:ca:198:GLU:N	2.48	0.46
2:cb:83:THR:HA	2:cb:205:MET:HG2	1.97	0.46
2:cb:95:ASN:C	2:cb:96:LEU:HD22	2.40	0.46
2:cc:34:VAL:HG12	2:cc:263:LEU:HD21	1.96	0.46
1:cg:100:LYS:CB	1:lp:100:LYS:CE	2.92	0.46
2:cm:230:SER:O	2:cm:231:THR:HG22	2.15	0.46
2:co:2:ALA:N	2:jo:85:GLY:O	2.48	0.46
2:co:198:GLU:N	2:co:198:GLU:OE1	2.48	0.46
2:cD:83:THR:HG22	2:cD:84:VAL:N	2.30	0.46
2:cG:30:THR:CG2	2:cG:298:LEU:HD13	2.45	0.46
2:cG:144:TYR:HH	2:cG:254:GLY:H	1.63	0.46
2:cR:65:ILE:HG22	2:cR:66:LYS:N	2.30	0.46
2:dg:278:VAL:HG21	2:dg:295:VAL:O	2.15	0.46
2:dh:117:LEU:HD21	2:dh:211:TYR:HA	1.95	0.46
2:dr:75:ILE:HG22	2:dr:76:THR:N	2.30	0.46
2:dF:67:ASP:HB2	2:dK:4:ILE:HD11	1.97	0.46
2:dG:117:LEU:HD21	2:dG:211:TYR:CA	2.45	0.46
2:dS:46:THR:HG22	2:dS:74:GLN:HG2	1.96	0.46
2:dS:59:TRP:CH2	2:nN:199:ASP:HA	2.49	0.46
2:dS:230:SER:O	2:dS:231:THR:HG22	2.14	0.46
2:dT:57:ARG:NH2	2:dT:58:GLU:O	2.48	0.46
2:dX:171:TYR:CZ	2:dX:175:THR:HG21	2.50	0.46
2:eg:230:SER:O	2:eg:231:THR:HG22	2.14	0.46
2:ei:63:ARG:NH2	2:el:205:MET:SD	2.84	0.46
2:ei:117:LEU:HD21	2:ei:211:TYR:CA	2.45	0.46
1:er:98:LEU:HD12	2:ez:63:ARG:O	2.15	0.46
2:eA:55:LYS:HG3	2:eA:253:GLY:O	2.15	0.46
2:eL:62:GLN:CB	1:ib:103:ARG:O	2.62	0.46
2:eO:228:ALA:HB1	2:eO:283:LEU:HG	1.97	0.46
1:eS:63:VAL:HG23	1:eS:99:LEU:CD1	2.42	0.46
1:eT:98:LEU:HD12	2:fb:63:ARG:O	2.15	0.46
2:eX:75:ILE:HG22	2:eX:76:THR:N	2.30	0.46
2:fc:30:THR:CG2	2:fc:298:LEU:HD13	2.45	0.46
1:fe:67:CYS:HA	1:fe:72:CYS:HA	1.95	0.46
2:fl:257:LEU:HD22	2:gD:24:LEU:HD21	1.97	0.46
2:fn:83:THR:HA	2:fn:205:MET:HG2	1.97	0.46
2:fn:196:THR:HG21	2:nE:192:PHE:CZ	2.42	0.46
2:fq:55:LYS:HG3	2:fq:253:GLY:O	2.15	0.46
1:fr:100:LYS:CD	1:ny:100:LYS:NZ	2.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fy:59:TRP:CH2	2:mh:199:ASP:HA	2.49	0.46
2:fB:95:ASN:C	2:fB:96:LEU:HD22	2.40	0.46
2:fC:243:TYR:O	2:fC:247:ARG:HG2	2.15	0.46
1:fH:99:LEU:CA	1:gZ:102:GLU:CD	2.87	0.46
2:fN:57:ARG:NH2	2:fN:58:GLU:O	2.48	0.46
2:fO:38:ILE:O	2:fO:38:ILE:HG13	2.15	0.46
2:fP:95:ASN:C	2:fP:96:LEU:HD22	2.40	0.46
2:ga:46:THR:HG22	2:ga:74:GLN:HG2	1.96	0.46
2:ga:237:VAL:O	2:ga:237:VAL:HG12	2.14	0.46
2:gd:95:ASN:C	2:gd:96:LEU:HD22	2.40	0.46
2:ge:60:ILE:CG2	2:ge:60:ILE:O	2.64	0.46
2:gf:230:SER:HB2	2:gf:234:LEU:HD23	1.96	0.46
2:gf:280:VAL:O	2:gf:289:ASN:ND2	2.44	0.46
1:gl:63:VAL:HG12	1:gl:99:LEU:HD13	1.97	0.46
1:gn:56:GLY:O	1:gn:57:VAL:HG23	2.14	0.46
2:gs:243:TYR:O	2:gs:247:ARG:HG2	2.15	0.46
2:gt:171:TYR:CZ	2:gt:175:THR:HG21	2.50	0.46
1:gZ:63:VAL:HG12	1:gZ:99:LEU:HD13	1.97	0.46
1:gB:67:CYS:HA	1:gB:72:CYS:HA	1.98	0.46
2:gS:63:ARG:NH2	2:gV:205:MET:SD	2.84	0.46
2:gS:117:LEU:HD21	2:gS:211:TYR:CA	2.45	0.46
2:gU:278:VAL:HG21	2:gU:295:VAL:O	2.15	0.46
2:he:199:ASP:HA	2:IF:59:TRP:CH2	2.49	0.46
2:ht:117:LEU:HD21	2:ht:211:TYR:CA	2.45	0.46
2:hV:60:ILE:CG2	2:hV:60:ILE:O	2.63	0.46
2:hV:243:TYR:O	2:hV:247:ARG:HG2	2.15	0.46
2:hw:171:TYR:CZ	2:hw:175:THR:HG21	2.50	0.46
2:hx:96:LEU:O	5:qz:51:GLU:OE1	2.33	0.46
2:hF:43:ALA:HB2	2:hF:209:TYR:OH	2.15	0.46
2:hH:65:ILE:HG22	2:hH:66:LYS:N	2.30	0.46
2:hI:278:VAL:HG21	2:hI:295:VAL:O	2.15	0.46
2:hV:95:ASN:C	2:hV:96:LEU:HD22	2.40	0.46
2:hX:208:GLU:OE1	2:hX:210:ARG:NE	2.47	0.46
2:hY:100:GLY:N	2:hY:101:PRO:CD	2.78	0.46
2:hY:228:ALA:HB1	2:hY:283:LEU:HG	1.97	0.46
1:ia:100:LYS:CB	1:nx:100:LYS:CE	2.92	0.46
2:ig:6:PRO:HA	2:ig:9:ILE:HG22	1.96	0.46
2:ii:117:LEU:HD21	2:ii:211:TYR:CA	2.46	0.46
2:iv:42:THR:HG22	2:iv:43:ALA:N	2.30	0.46
2:iw:38:ILE:O	2:iw:38:ILE:HG13	2.15	0.46
2:ix:62:GLN:CB	1:pQ:103:ARG:O	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iF:98:LEU:HD12	2:iN:63:ARG:O	2.15	0.46
2:iJ:42:THR:HG22	2:iJ:43:ALA:N	2.30	0.46
2:iO:100:GLY:N	2:iO:101:PRO:CD	2.78	0.46
2:iW:46:THR:HG22	2:iW:74:GLN:HG2	1.96	0.46
2:iZ:95:ASN:C	2:iZ:96:LEU:HD22	2.40	0.46
2:jl:67:ASP:HB2	2:jQ:4:ILE:HD11	1.97	0.46
2:jz:75:ILE:HG22	2:jz:76:THR:N	2.30	0.46
2:jz:257:LEU:HD22	2:le:24:LEU:HD21	1.96	0.46
2:jC:60:ILE:CG2	2:jC:60:ILE:O	2.64	0.46
1:jH:60:ARG:HH21	1:ok:99:LEU:HD21	0.59	0.46
1:jJ:98:LEU:HD12	2:jR:63:ARG:O	2.15	0.46
2:jM:237:VAL:O	2:jM:237:VAL:HG12	2.14	0.46
2:jQ:85:GLY:O	2:or:2:ALA:N	2.48	0.46
2:jS:30:THR:CG2	2:jS:298:LEU:HD13	2.46	0.46
2:jS:55:LYS:HG3	2:jS:253:GLY:O	2.15	0.46
2:kc:86:VAL:O	2:kc:202:GLN:N	2.46	0.46
2:ke:60:ILE:CG2	2:ke:60:ILE:O	2.64	0.46
2:ke:243:TYR:O	2:ke:247:ARG:HG2	2.15	0.46
2:kf:171:TYR:CZ	2:kf:175:THR:HG21	2.50	0.46
2:ko:6:PRO:HA	2:ko:9:ILE:HG22	1.96	0.46
2:kp:264:LEU:HB2	2:kp:295:VAL:HG11	1.97	0.46
2:kt:242:VAL:O	2:kt:246:MET:HG3	2.15	0.46
2:kC:75:ILE:HG22	2:kC:76:THR:N	2.30	0.46
2:kD:2:ALA:N	2:IX:85:GLY:O	2.48	0.46
2:kF:60:ILE:CG2	2:kF:60:ILE:O	2.64	0.46
2:kG:230:SER:HB2	2:kG:234:LEU:HD23	1.96	0.46
2:kH:30:THR:CG2	2:kH:298:LEU:HD13	2.46	0.46
2:kQ:24:LEU:HD21	2:mY:257:LEU:HD22	1.96	0.46
2:kR:86:VAL:O	2:kR:202:GLN:N	2.46	0.46
1:lc:56:GLY:O	1:lc:57:VAL:HG23	2.14	0.46
2:ld:6:PRO:HA	2:ld:9:ILE:HG22	1.96	0.46
2:lf:38:ILE:O	2:lf:38:ILE:HG13	2.15	0.46
2:lh:278:VAL:HG21	2:lh:295:VAL:O	2.15	0.46
2:lj:228:ALA:HB1	2:lj:283:LEU:HG	1.97	0.46
2:lr:43:ALA:HB2	2:lr:209:TYR:OH	2.15	0.46
2:lu:65:ILE:HG22	2:lu:66:LYS:N	2.30	0.46
2:lx:55:LYS:HG3	2:lx:253:GLY:O	2.15	0.46
1:lC:98:LEU:HD12	2:lK:63:ARG:O	2.15	0.46
2:lG:75:ILE:HG22	2:lG:76:THR:N	2.30	0.46
1:lN:67:CYS:HA	1:lN:72:CYS:HA	1.95	0.46
2:lT:43:ALA:HB2	2:lT:209:TYR:OH	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lY:230:SER:HB2	2:lY:234:LEU:HD23	1.96	0.46
2:mj:2:ALA:N	2:nD:85:GLY:O	2.48	0.46
2:mk:65:ILE:HG22	2:mk:66:LYS:N	2.30	0.46
2:mw:75:ILE:HG22	2:mw:76:THR:N	2.30	0.46
2:mB:30:THR:CG2	2:mB:298:LEU:HD13	2.45	0.46
2:mJ:6:PRO:HA	2:mJ:9:ILE:HG22	1.96	0.46
2:mL:264:LEU:HB2	2:mL:295:VAL:HG11	1.97	0.46
2:mP:55:LYS:HG3	2:mP:253:GLY:O	2.15	0.46
2:mP:228:ALA:HB1	2:mP:283:LEU:HG	1.97	0.46
1:mW:67:CYS:HA	1:mW:72:CYS:HA	1.97	0.46
2:mZ:264:LEU:HB2	2:mZ:295:VAL:HG11	1.97	0.46
2:nb:30:THR:CG2	2:nb:298:LEU:HD13	2.46	0.46
1:nh:63:VAL:HG23	1:nh:99:LEU:CD1	2.42	0.46
1:ni:63:VAL:HG12	1:ni:99:LEU:HD13	1.97	0.46
2:nl:6:PRO:HA	2:nl:9:ILE:HG22	1.96	0.46
2:nn:144:TYR:CG	2:nn:145:PRO:HD2	2.49	0.46
2:nn:198:GLU:N	2:nn:198:GLU:OE1	2.48	0.46
2:no:95:ASN:C	2:no:96:LEU:HD22	2.40	0.46
2:nT:100:GLY:N	2:nT:101:PRO:CD	2.78	0.46
1:nY:98:LEU:HD12	2:og:63:ARG:O	2.15	0.46
2:oc:75:ILE:HG22	2:oc:76:THR:N	2.30	0.46
2:oh:30:THR:CG2	2:oh:298:LEU:HD13	2.45	0.46
1:om:63:VAL:HG12	1:om:99:LEU:HD13	1.97	0.46
2:op:193:THR:CG2	2:pW:193:THR:HG21	2.45	0.46
2:og:67:ASP:HB2	2:ov:4:ILE:HD11	1.97	0.46
2:og:257:LEU:HD22	2:pW:24:LEU:HD21	1.96	0.46
2:ot:96:LEU:HD12	2:OT:12:LEU:CD2	2.44	0.46
2:ov:242:VAL:O	2:ov:246:MET:HG3	2.15	0.46
2:oF:38:ILE:O	2:oF:38:ILE:HG13	2.15	0.46
1:oO:98:LEU:HD12	2:oW:63:ARG:O	2.16	0.46
2:oU:83:THR:HG22	2:oU:84:VAL:N	2.30	0.46
2:pf:46:THR:HG22	2:pf:74:GLN:HG2	1.96	0.46
2:pl:100:GLY:N	2:pl:101:PRO:CD	2.78	0.46
1:ps:56:GLY:O	1:ps:57:VAL:HG23	2.14	0.46
2:pu:75:ILE:HG22	2:pu:76:THR:N	2.30	0.46
2:pz:100:GLY:N	2:pz:101:PRO:CD	2.78	0.46
1:pE:98:LEU:HD12	2:pM:63:ARG:O	2.15	0.46
1:pG:56:GLY:O	1:pG:57:VAL:HG23	2.14	0.46
2:pJ:117:LEU:HD21	2:pJ:211:TYR:CA	2.46	0.46
2:pK:83:THR:HG22	2:pK:84:VAL:N	2.29	0.46
2:pL:60:ILE:HG23	2:pL:60:ILE:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pY:83:THR:HA	2:pY:205:MET:HG2	1.97	0.46
2:pZ:34:VAL:HG12	2:pZ:263:LEU:HD21	1.96	0.46
2:qa:171:TYR:CZ	2:qa:175:THR:HG21	2.50	0.46
4:qj:55:ALA:HB1	4:qo:64:LYS:O	2.15	0.46
4:qk:83:THR:HG21	4:qk:228:MET:HE1	1.96	0.46
4:ql:64:LYS:HZ1	4:qm:53:GLN:HG2	1.80	0.46
5:qp:144:GLN:O	5:qp:144:GLN:CD	2.58	0.46
5:qx:235:ARG:NH2	5:qx:255:VAL:O	2.47	0.46
5:qB:380:MET:CE	5:qB:403:LEU:HD21	2.44	0.46
5:qJ:398:TRP:CE3	5:qL:405:ILE:HD12	2.49	0.46
2:ah:197:LYS:NZ	1:oO:98:LEU:O	2.47	0.46
2:aj:95:ASN:C	2:aj:96:LEU:HD22	2.40	0.46
2:au:46:THR:HG22	2:au:74:GLN:HG2	1.96	0.46
2:au:62:GLN:OE1	1:kl:102:GLU:HG2	2.02	0.46
2:av:38:ILE:O	2:av:38:ILE:HG13	2.15	0.46
2:az:100:GLY:N	2:az:101:PRO:CD	2.78	0.46
2:aH:61:GLY:CA	1:iT:103:ARG:HD2	2.40	0.46
2:aL:85:GLY:O	2:ht:2:ALA:N	2.48	0.46
2:aW:24:LEU:HD21	2:bk:257:LEU:HD22	1.96	0.46
2:aW:75:ILE:HG22	2:aW:76:THR:N	2.30	0.46
2:aX:2:ALA:N	2:cq:85:GLY:O	2.48	0.46
2:aX:38:ILE:O	2:aX:38:ILE:HG13	2.15	0.46
2:aX:198:GLU:N	2:aX:198:GLU:OE1	2.48	0.46
2:aX:264:LEU:HB2	2:aX:295:VAL:HG11	1.97	0.46
2:bj:237:VAL:O	2:bj:237:VAL:HG12	2.14	0.46
2:bp:242:VAL:O	2:bp:246:MET:HG3	2.15	0.46
1:bt:103:ARG:NH1	2:hU:61:GLY:CA	2.70	0.46
2:bB:60:ILE:CG2	2:bB:60:ILE:O	2.63	0.46
1:bH:63:VAL:HG23	1:bH:99:LEU:CD1	2.42	0.46
2:bM:2:ALA:N	2:gU:85:GLY:O	2.48	0.46
2:bO:60:ILE:HG23	2:bO:60:ILE:O	2.14	0.46
2:bQ:30:THR:CG2	2:bQ:298:LEU:HD13	2.46	0.46
2:cd:171:TYR:OH	2:cd:175:THR:OG1	2.12	0.46
2:cr:171:TYR:CZ	2:cr:175:THR:HG21	2.50	0.46
2:cs:100:GLY:N	2:cs:101:PRO:CD	2.78	0.46
1:cx:98:LEU:HD12	2:cF:63:ARG:O	2.15	0.46
2:cB:280:VAL:O	2:cB:289:ASN:ND2	2.41	0.46
2:cC:2:ALA:N	2:dW:85:GLY:O	2.48	0.46
2:cE:85:GLY:O	2:pJ:2:ALA:N	2.48	0.46
2:cG:185:GLN:O	2:cG:205:MET:N	2.43	0.46
2:cP:67:ASP:HB2	2:cU:4:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cQ:264:LEU:HB2	2:cQ:295:VAL:HG11	1.98	0.46
2:cU:100:GLY:N	2:cU:101:PRO:CD	2.78	0.46
2:dc:6:PRO:HA	2:dc:9:ILE:HG22	1.96	0.46
1:dn:98:LEU:HD12	2:dv:63:ARG:O	2.16	0.46
2:dt:65:ILE:HG22	2:dt:66:LYS:N	2.30	0.46
1:dB:98:LEU:HD12	2:dJ:63:ARG:O	2.15	0.46
2:dE:43:ALA:HB2	2:dE:209:TYR:OH	2.15	0.46
2:dE:237:VAL:HG12	2:dE:237:VAL:O	2.14	0.46
2:dI:60:ILE:CG2	2:dI:60:ILE:O	2.64	0.46
2:dY:55:LYS:HG3	2:dY:253:GLY:O	2.15	0.46
1:eb:103:ARG:O	2:oe:62:GLN:CB	2.63	0.46
1:ed:102:GLU:HG2	2:nz:62:GLN:OE1	2.02	0.46
2:ei:38:ILE:O	2:ei:38:ILE:HG13	2.15	0.46
2:ei:144:TYR:CG	2:ei:145:PRO:HD2	2.49	0.46
2:ej:95:ASN:C	2:ej:96:LEU:HD22	2.40	0.46
2:em:30:THR:CG2	2:em:298:LEU:HD13	2.45	0.46
1:en:100:LYS:CD	1:et:100:LYS:NZ	2.71	0.46
2:eu:237:VAL:O	2:eu:237:VAL:HG12	2.14	0.46
2:ew:117:LEU:HD21	2:ew:211:TYR:CA	2.46	0.46
2:ey:278:VAL:HG21	2:ey:295:VAL:O	2.15	0.46
2:eK:2:ALA:N	2:ik:85:GLY:O	2.48	0.46
2:eK:264:LEU:HB2	2:eK:295:VAL:HG11	1.97	0.46
2:eM:30:THR:CG2	2:eM:298:LEU:HD13	2.46	0.46
2:eO:55:LYS:HG3	2:eO:253:GLY:O	2.15	0.46
1:eQ:99:LEU:HD11	1:iG:102:GLU:CG	2.42	0.46
2:eW:46:THR:HG22	2:eW:74:GLN:HG2	1.96	0.46
2:fb:203:VAL:HG12	2:fb:205:MET:HG3	1.96	0.46
2:fc:242:VAL:O	2:fc:246:MET:HG3	2.15	0.46
2:fk:237:VAL:O	2:fk:237:VAL:HG12	2.14	0.46
2:fl:24:LEU:HD21	2:nA:257:LEU:HD22	1.96	0.46
2:fl:193:THR:HG21	2:nz:193:THR:CG2	2.45	0.46
2:fz:75:ILE:HG22	2:fz:76:THR:N	2.30	0.46
2:fC:60:ILE:HG23	2:fC:60:ILE:O	2.14	0.46
2:fE:55:LYS:HG3	2:fE:253:GLY:O	2.15	0.46
2:fE:100:GLY:N	2:fE:101:PRO:CD	2.78	0.46
1:fl:62:THR:OG1	1:fl:100:LYS:O	2.27	0.46
2:fM:230:SER:O	2:fM:231:THR:HG22	2.14	0.46
1:fX:98:LEU:HD12	2:gf:63:ARG:O	2.15	0.46
2:gc:264:LEU:HB2	2:gc:295:VAL:HG11	1.98	0.46
2:go:6:PRO:HA	2:go:9:ILE:HG22	1.96	0.46
2:gr:65:ILE:HG22	2:gr:66:LYS:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gs:60:ILE:HG23	2:gs:60:ILE:O	2.15	0.46
2:gs:85:GLY:O	2:gS:2:ALA:N	2.48	0.46
2:gu:30:THR:CG2	2:gu:298:LEU:HD13	2.46	0.46
2:gD:274:ALA:CB	2:gD:297:VAL:HG21	2.44	0.46
1:gN:63:VAL:HG12	1:gN:99:LEU:HD13	1.97	0.46
2:gS:38:ILE:HG13	2:gS:38:ILE:O	2.15	0.46
2:gW:30:THR:CG2	2:gW:298:LEU:HD13	2.46	0.46
1:hd:56:GLY:O	1:hd:57:VAL:HG23	2.14	0.46
2:hg:198:GLU:N	2:hg:198:GLU:OE1	2.48	0.46
2:hh:267:PRO:HD2	2:hh:270:LEU:HD12	1.98	0.46
2:hj:192:PHE:CZ	2:II:196:THR:HG21	2.42	0.46
1:hy:100:LYS:HD3	1:hE:100:LYS:HZ1	1.78	0.46
2:hG:117:LEU:HD21	2:hG:211:TYR:CA	2.46	0.46
2:hH:95:ASN:C	2:hH:96:LEU:HD22	2.40	0.46
2:hI:85:GLY:O	2:IV:2:ALA:N	2.48	0.46
2:hK:100:GLY:N	2:hK:101:PRO:CD	2.78	0.46
2:hU:264:LEU:HB2	2:hU:295:VAL:HG11	1.97	0.46
2:hV:65:ILE:HG22	2:hV:66:LYS:N	2.30	0.46
2:ih:67:ASP:HB2	2:im:4:ILE:HD11	1.97	0.46
2:iv:57:ARG:NH2	2:iv:58:GLU:O	2.48	0.46
2:iw:2:ALA:N	2:pZ:85:GLY:O	2.48	0.46
1:iF:63:VAL:HG12	1:iF:99:LEU:HD13	1.97	0.46
2:iK:198:GLU:N	2:iK:198:GLU:OE1	2.48	0.46
2:iO:55:LYS:HG3	2:iO:253:GLY:O	2.15	0.46
1:iT:98:LEU:HD12	2:jb:63:ARG:O	2.15	0.46
2:jc:100:GLY:N	2:jc:101:PRO:CD	2.78	0.46
2:jo:174:ASP:OD1	2:jo:214:ARG:NH2	2.49	0.46
1:jx:67:CYS:HA	1:jx:72:CYS:HA	1.98	0.46
2:jz:42:THR:HG22	2:jz:43:ALA:N	2.30	0.46
2:jz:67:ASP:HB2	2:jE:4:ILE:HD11	1.97	0.46
2:kc:117:LEU:HD21	2:kc:211:TYR:CA	2.45	0.46
2:kg:242:VAL:O	2:kg:246:MET:HG3	2.15	0.46
2:ko:43:ALA:HB2	2:ko:209:TYR:OH	2.15	0.46
2:kr:174:ASP:OD1	2:kr:214:ARG:NH2	2.49	0.46
2:kt:108:ARG:O	5:qD:178:PRO:HG3	2.13	0.46
1:ky:63:VAL:HG12	1:ky:99:LEU:HD13	1.97	0.46
2:kC:42:THR:HG22	2:kC:43:ALA:N	2.30	0.46
2:kP:230:SER:O	2:kP:231:THR:HG22	2.14	0.46
2:kR:117:LEU:HD21	2:kR:211:TYR:CA	2.45	0.46
1:lo:98:LEU:HD12	2:lw:63:ARG:O	2.15	0.46
2:lr:237:VAL:O	2:lr:237:VAL:HG12	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lt:144:TYR:CG	2:lt:145:PRO:HD2	2.49	0.46
2:lt:264:LEU:HB2	2:lt:295:VAL:HG11	1.98	0.46
2:lw:89:THR:N	2:lw:200:ASP:OD2	2.36	0.46
2:lx:100:GLY:N	2:lx:101:PRO:CD	2.78	0.46
2:lx:144:TYR:HH	2:lx:254:GLY:H	1.61	0.46
2:lh:38:ILE:O	2:lh:38:ILE:HG13	2.15	0.46
2:lh:264:LEU:HB2	2:lh:295:VAL:HG11	1.97	0.46
2:li:83:THR:HA	2:li:205:MET:HG2	1.97	0.46
1:me:98:LEU:HD12	2:mm:63:ARG:O	2.15	0.46
2:mn:228:ALA:HB1	2:mn:283:LEU:HG	1.97	0.46
2:mn:242:VAL:O	2:mn:246:MET:HG3	2.15	0.46
2:mw:42:THR:HG22	2:mw:43:ALA:N	2.30	0.46
2:mx:117:LEU:HD21	2:mx:211:TYR:CA	2.46	0.46
2:mz:243:TYR:O	2:mz:247:ARG:HG2	2.15	0.46
2:mz:278:VAL:HG21	2:mz:295:VAL:O	2.15	0.46
2:mL:117:LEU:HD21	2:mL:211:TYR:CA	2.45	0.46
2:mL:198:GLU:N	2:mL:198:GLU:OE1	2.48	0.46
1:ni:98:LEU:HD12	2:nq:63:ARG:O	2.15	0.46
2:nl:230:SER:O	2:nl:231:THR:HG22	2.14	0.46
2:no:83:THR:HG22	2:no:84:VAL:N	2.30	0.46
2:np:60:ILE:CG2	2:np:60:ILE:O	2.64	0.46
2:nO:24:LEU:HD21	2:oc:257:LEU:HD22	1.96	0.46
2:nO:193:THR:HG21	2:ob:193:THR:CG2	2.45	0.46
2:nP:117:LEU:HD21	2:nP:211:TYR:CA	2.45	0.46
2:nQ:65:ILE:HG22	2:nQ:66:LYS:N	2.30	0.46
2:nR:30:THR:CG2	2:nR:298:LEU:HD13	2.46	0.46
2:nR:60:ILE:CG2	2:nR:60:ILE:O	2.64	0.46
2:nT:55:LYS:HG3	2:nT:253:GLY:O	2.15	0.46
2:oc:42:THR:HG22	2:oc:43:ALA:N	2.30	0.46
2:oh:100:GLY:N	2:oh:101:PRO:CD	2.78	0.46
2:oh:242:VAL:O	2:oh:246:MET:HG3	2.15	0.46
1:om:98:LEU:O	2:pW:197:LYS:NZ	2.47	0.46
2:oH:60:ILE:HG23	2:oH:60:ILE:O	2.14	0.46
2:oS:67:ASP:HB2	2:oX:4:ILE:HD11	1.97	0.46
2:oU:95:ASN:C	2:oU:96:LEU:HD22	2.40	0.46
2:pt:237:VAL:O	2:pt:237:VAL:HG12	2.14	0.46
2:pv:264:LEU:HB2	2:pv:295:VAL:HG11	1.98	0.46
2:pZ:60:ILE:CG2	2:pZ:60:ILE:O	2.64	0.46
3:qd:61:ASP:CA	4:qn:33:SER:HB3	1.98	0.46
3:qd:68:ALA:HB2	4:qn:8:TYR:CE2	2.50	0.46
3:qd:118:VAL:HG11	3:qe:127:GLN:HE22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qg:66:GLN:CG	4:qk:8:TYR:O	2.63	0.46
3:qi:67:ARG:H	4:qo:194:LEU:CD1	1.98	0.46
3:qi:117:ASP:O	4:qj:6:TYR:OH	2.25	0.46
4:qj:64:LYS:O	4:qk:55:ALA:HB1	2.15	0.46
4:qn:172:THR:HG22	4:qo:255:LEU:HG	1.96	0.46
5:qp:207:ARG:NE	5:qr:69:GLU:OE2	2.43	0.46
5:qv:144:GLN:CD	5:qv:144:GLN:O	2.58	0.46
5:qB:144:GLN:CD	5:qB:144:GLN:O	2.58	0.46
6:qI:83:LEU:HD11	6:qI:89:VAL:HG11	1.94	0.46
5:qL:235:ARG:NH2	5:qL:255:VAL:O	2.47	0.46
1:ad:63:VAL:HG12	1:ad:99:LEU:HD13	1.97	0.46
2:ah:24:LEU:HD21	2:oS:257:LEU:HD22	1.96	0.46
2:ah:75:ILE:HG22	2:ah:76:THR:N	2.30	0.46
2:aj:83:THR:HG22	2:aj:84:VAL:N	2.29	0.46
2:ak:60:ILE:CG2	2:ak:60:ILE:O	2.64	0.46
2:ak:85:GLY:O	2:mL:2:ALA:N	2.48	0.46
2:aw:95:ASN:C	2:aw:96:LEU:HD22	2.40	0.46
2:az:55:LYS:HG3	2:az:253:GLY:O	2.15	0.46
2:aN:100:GLY:N	2:aN:101:PRO:CD	2.78	0.46
1:bg:98:LEU:HD12	2:bo:63:ARG:O	2.15	0.46
2:bj:46:THR:HG22	2:bj:74:GLN:HG2	1.96	0.46
2:bo:171:TYR:CZ	2:bo:175:THR:HG21	2.50	0.46
2:bo:203:VAL:HG12	2:bo:205:MET:HG3	1.96	0.46
2:bx:6:PRO:HA	2:bx:9:ILE:HG22	1.96	0.46
2:bx:21:GLN:HA	2:bx:21:GLN:OE1	2.16	0.46
2:bL:6:PRO:HA	2:bL:9:ILE:HG22	1.96	0.46
2:bM:198:GLU:N	2:bM:198:GLU:OE1	2.48	0.46
2:bN:95:ASN:C	2:bN:96:LEU:HD22	2.40	0.46
1:bT:102:GLU:HB2	1:eR:99:LEU:CD2	2.33	0.46
2:bY:6:PRO:HA	2:bY:9:ILE:HG22	1.96	0.46
2:ca:264:LEU:HB2	2:ca:295:VAL:HG11	1.97	0.46
2:cc:243:TYR:O	2:cc:247:ARG:HG2	2.15	0.46
2:cm:237:VAL:O	2:cm:237:VAL:HG12	2.14	0.46
2:cn:75:ILE:HG22	2:cn:76:THR:N	2.30	0.46
2:cs:228:ALA:HB1	2:cs:283:LEU:HG	1.97	0.46
2:cE:60:ILE:CG2	2:cE:60:ILE:O	2.64	0.46
2:cE:243:TYR:O	2:cE:247:ARG:HG2	2.15	0.46
2:cG:100:GLY:N	2:cG:101:PRO:CD	2.78	0.46
2:cO:43:ALA:HB2	2:cO:209:TYR:OH	2.15	0.46
2:cS:174:ASP:OD1	2:cS:214:ARG:NH2	2.49	0.46
1:cZ:63:VAL:HG12	1:cZ:99:LEU:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dd:257:LEU:HD22	2:eJ:24:LEU:HD21	1.96	0.46
2:de:117:LEU:HD21	2:de:211:TYR:CA	2.45	0.46
2:di:30:THR:CG2	2:di:298:LEU:HD13	2.45	0.46
2:ds:117:LEU:HD21	2:ds:211:TYR:CA	2.45	0.46
2:dt:267:PRO:HD2	2:dt:270:LEU:HD12	1.98	0.46
2:dE:21:GLN:OE1	2:dE:21:GLN:HA	2.16	0.46
2:dH:267:PRO:HD2	2:dH:270:LEU:HD12	1.98	0.46
1:dN:99:LEU:HD23	1:pC:102:GLU:HB3	1.96	0.46
1:dP:98:LEU:HD12	2:dX:63:ARG:O	2.15	0.46
2:dT:193:THR:HG21	2:nN:193:THR:CG2	2.45	0.46
2:dW:174:ASP:OD1	2:dW:214:ARG:NH2	2.49	0.46
2:dW:278:VAL:HG21	2:dW:295:VAL:O	2.15	0.46
2:dY:242:VAL:O	2:dY:246:MET:HG3	2.15	0.46
2:ek:85:GLY:O	2:od:2:ALA:N	2.48	0.46
1:et:67:CYS:HA	1:et:72:CYS:HA	1.98	0.46
2:ev:197:LYS:NZ	1:gz:98:LEU:O	2.47	0.46
2:ex:95:ASN:C	2:ex:96:LEU:HD22	2.40	0.46
2:ey:60:ILE:HG23	2:ey:60:ILE:O	2.15	0.46
2:eM:278:VAL:HG21	2:eM:295:VAL:O	2.15	0.46
2:eY:264:LEU:HB2	2:eY:295:VAL:HG11	1.97	0.46
2:eZ:267:PRO:HD2	2:eZ:270:LEU:HD12	1.98	0.46
2:fa:174:ASP:OD1	2:fa:214:ARG:NH2	2.49	0.46
2:fk:46:THR:HG22	2:fk:74:GLN:HG2	1.96	0.46
2:fA:264:LEU:HB2	2:fA:295:VAL:HG11	1.97	0.46
2:fC:174:ASP:OD1	2:fC:214:ARG:NH2	2.49	0.46
1:fJ:98:LEU:HD12	2:fR:63:ARG:O	2.16	0.46
1:fL:56:GLY:O	1:fL:57:VAL:HG23	2.14	0.46
2:fN:42:THR:HG22	2:fN:43:ALA:N	2.30	0.46
2:fO:264:LEU:HB2	2:fO:295:VAL:HG11	1.97	0.46
2:fQ:30:THR:CG2	2:fQ:298:LEU:HD13	2.46	0.46
1:fV:99:LEU:CA	1:mc:102:GLU:CD	2.87	0.46
2:ga:6:PRO:HA	2:ga:9:ILE:HG22	1.96	0.46
2:gc:117:LEU:HD21	2:gc:211:TYR:CA	2.45	0.46
2:gd:267:PRO:HD2	2:gd:270:LEU:HD12	1.98	0.46
2:gq:117:LEU:HD21	2:gq:211:TYR:CA	2.45	0.46
2:gE:264:LEU:HB2	2:gE:295:VAL:HG11	1.98	0.46
2:gQ:43:ALA:HB2	2:gQ:209:TYR:OH	2.15	0.46
2:gR:197:LYS:NZ	1:IQ:98:LEU:O	2.47	0.46
2:gR:257:LEU:HD22	2:ih:24:LEU:HD21	1.96	0.46
2:gT:95:ASN:C	2:gT:96:LEU:HD22	2.40	0.46
2:he:61:GLY:CA	1:ky:103:ARG:HD2	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hi:34:VAL:HG12	2:hi:263:LEU:HD21	1.96	0.46
1:hq:100:LYS:CE	1:iQ:100:LYS:CB	2.92	0.46
2:hs:61:GLY:CA	1:hC:103:ARG:HD2	2.40	0.46
2:ht:264:LEU:HB2	2:ht:295:VAL:HG11	1.97	0.46
2:hG:264:LEU:HB2	2:hG:295:VAL:HG11	1.97	0.46
2:hK:30:THR:CG2	2:hK:298:LEU:HD13	2.45	0.46
2:hT:67:ASP:HB2	2:hY:4:ILE:HD11	1.97	0.46
2:hU:38:ILE:O	2:hU:38:ILE:HG13	2.15	0.46
2:hW:30:THR:CG2	2:hW:298:LEU:HD13	2.46	0.46
2:hY:55:LYS:HG3	2:hY:253:GLY:O	2.15	0.46
2:ii:264:LEU:HB2	2:ii:295:VAL:HG11	1.97	0.46
2:im:55:LYS:HG3	2:im:253:GLY:O	2.15	0.46
1:ip:102:GLU:HB2	1:lm:99:LEU:CD2	2.33	0.46
2:iu:21:GLN:OE1	2:iu:21:GLN:HA	2.16	0.46
2:iL:95:ASN:C	2:iL:96:LEU:HD22	2.40	0.46
2:iM:30:THR:CG2	2:iM:298:LEU:HD13	2.46	0.46
2:iO:30:THR:CG2	2:iO:298:LEU:HD13	2.46	0.46
2:iZ:65:ILE:HG22	2:iZ:66:LYS:N	2.30	0.46
2:jy:43:ALA:HB2	2:jy:209:TYR:OH	2.15	0.46
2:jB:267:PRO:HD2	2:jB:270:LEU:HD12	1.98	0.46
2:jE:100:GLY:N	2:jE:101:PRO:CD	2.78	0.46
2:jP:83:THR:HA	2:jP:205:MET:HG2	1.97	0.46
2:jP:95:ASN:C	2:jP:96:LEU:HD22	2.40	0.46
2:kd:267:PRO:HD2	2:kd:270:LEU:HD12	1.98	0.46
2:ke:62:GLN:HG2	2:qa:197:LYS:HE3	1.91	0.46
2:kf:280:VAL:O	2:kf:289:ASN:ND2	2.44	0.46
2:kg:100:GLY:N	2:kg:101:PRO:CD	2.78	0.46
2:kg:185:GLN:O	2:kg:205:MET:N	2.43	0.46
2:ks:280:VAL:O	2:ks:289:ASN:ND2	2.44	0.46
2:kC:205:MET:HE2	2:kQ:63:ARG:HE	1.72	0.46
2:kS:65:ILE:HG22	2:kS:66:LYS:N	2.30	0.46
2:kT:174:ASP:OD1	2:kT:214:ARG:NH2	2.49	0.46
1:la:63:VAL:HG12	1:la:99:LEU:HD13	1.97	0.46
2:lg:95:ASN:C	2:lg:96:LEU:HD22	2.40	0.46
2:lh:30:THR:CG2	2:lh:298:LEU:HD13	2.46	0.46
2:lj:242:VAL:O	2:lj:246:MET:HG3	2.15	0.46
2:lv:174:ASP:OD1	2:lv:214:ARG:NH2	2.49	0.46
1:lA:102:GLU:HB3	1:oy:99:LEU:HD23	1.96	0.46
2:lG:141:HIS:CD2	2:lG:150:THR:HG1	2.29	0.46
2:lJ:60:ILE:HG23	2:lJ:60:ILE:O	2.14	0.46
2:lJ:85:GLY:O	2:oF:2:ALA:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IK:221:PHE:CG	2:IK:242:VAL:HG13	2.49	0.46
2:IT:6:PRO:HA	2:IT:9:ILE:HG22	1.96	0.46
2:IT:46:THR:HG22	2:IT:74:GLN:HG2	1.96	0.46
2:IU:75:ILE:HG22	2:IU:76:THR:N	2.30	0.46
2:mi:205:MET:CE	2:mw:63:ARG:NE	2.74	0.46
2:mj:264:LEU:HB2	2:mj:295:VAL:HG11	1.97	0.46
2:mk:83:THR:HA	2:mk:205:MET:HG2	1.97	0.46
2:mk:83:THR:HG22	2:mk:84:VAL:N	2.29	0.46
2:mm:117:LEU:HD21	2:mm:211:TYR:HA	1.95	0.46
2:mx:264:LEU:HB2	2:mx:295:VAL:HG11	1.98	0.46
2:mA:221:PHE:CG	2:mA:242:VAL:HG13	2.49	0.46
1:mG:98:LEU:HD12	2:mO:63:ARG:O	2.15	0.46
2:mJ:46:THR:HG22	2:mJ:74:GLN:HG2	1.96	0.46
2:mK:42:THR:HG22	2:mK:43:ALA:N	2.30	0.46
2:mO:280:VAL:O	2:mO:289:ASN:ND2	2.44	0.46
2:na:65:ILE:HG22	2:na:66:LYS:N	2.30	0.46
2:nd:30:THR:CG2	2:nd:298:LEU:HD13	2.46	0.46
1:ni:98:LEU:O	2:oE:197:LYS:NZ	2.47	0.46
2:nr:55:LYS:HG3	2:nr:253:GLY:O	2.15	0.46
2:nz:43:ALA:HB2	2:nz:209:TYR:OH	2.15	0.46
2:nB:53:PHE:O	2:nB:255:ARG:NH2	2.43	0.46
2:nC:267:PRO:HD2	2:nC:270:LEU:HD12	1.98	0.46
2:nD:243:TYR:O	2:nD:247:ARG:HG2	2.15	0.46
1:nJ:63:VAL:HG23	1:nJ:99:LEU:CD1	2.42	0.46
2:nS:208:GLU:OE1	2:nS:210:ARG:NE	2.47	0.46
2:nT:30:THR:CG2	2:nT:298:LEU:HD13	2.45	0.46
2:oc:67:ASP:HB2	2:oh:4:ILE:HD11	1.97	0.46
2:od:264:LEU:HB2	2:od:295:VAL:HG11	1.97	0.46
2:of:60:ILE:HG23	2:of:60:ILE:O	2.14	0.46
1:om:102:GLU:CD	2:pV:62:GLN:OE1	2.53	0.46
2:oq:42:THR:HG22	2:oq:43:ALA:N	2.30	0.46
2:or:86:VAL:O	2:or:202:GLN:N	2.46	0.46
2:oF:117:LEU:HD21	2:oF:211:TYR:CA	2.46	0.46
2:oJ:55:LYS:HG3	2:oJ:253:GLY:O	2.15	0.46
2:oJ:228:ALA:HB1	2:oJ:283:LEU:HG	1.97	0.46
2:oX:185:GLN:O	2:oX:205:MET:N	2.43	0.46
2:ph:281:GLN:N	2:ph:281:GLN:OE1	2.44	0.46
2:pu:67:ASP:HB2	2:pz:4:ILE:HD11	1.97	0.46
2:pu:205:MET:CE	2:pI:63:ARG:NE	2.74	0.46
2:pL:34:VAL:HG12	2:pL:263:LEU:HD21	1.96	0.46
2:pL:174:ASP:OD1	2:pL:214:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pM:203:VAL:HG12	2:pM:205:MET:HG3	1.96	0.46
2:pN:100:GLY:N	2:pN:101:PRO:CD	2.78	0.46
2:pX:38:ILE:HG13	2:pX:38:ILE:O	2.15	0.46
2:qb:30:THR:CG2	2:qb:298:LEU:HD13	2.46	0.46
3:qi:66:GLN:CA	4:qo:10:GLN:CG	2.86	0.46
4:qj:89:VAL:HG22	4:qk:245:ASP:CB	2.40	0.46
4:qj:172:THR:HG22	4:qk:255:LEU:HG	1.96	0.46
5:qB:392:LEU:HD12	5:qD:400:TYR:HE1	1.58	0.46
1:ad:98:LEU:O	2:oc:197:LYS:NZ	2.47	0.46
1:af:56:GLY:O	1:af:57:VAL:HG23	2.14	0.46
2:am:100:GLY:N	2:am:101:PRO:CD	2.78	0.46
1:ap:99:LEU:CA	1:hN:102:GLU:OE1	2.28	0.46
1:ap:102:GLU:CD	1:dl:99:LEU:CA	2.87	0.46
2:av:198:GLU:OE1	2:av:198:GLU:N	2.48	0.46
2:ax:85:GLY:O	2:ds:2:ALA:N	2.48	0.46
2:aK:267:PRO:HD2	2:aK:270:LEU:HD12	1.98	0.46
1:aQ:100:LYS:N	1:ch:102:GLU:OE2	2.49	0.46
1:aR:63:VAL:HG23	1:aR:99:LEU:CD1	2.42	0.46
2:bk:67:ASP:HB2	2:bp:4:ILE:HD11	1.97	0.46
2:bn:243:TYR:O	2:bn:247:ARG:HG2	2.15	0.46
1:bu:98:LEU:O	2:dd:197:LYS:NZ	2.47	0.46
1:bK:56:GLY:O	1:bK:57:VAL:HG23	2.14	0.46
2:bL:104:GLN:HE21	5:qr:166:GLU:CG	2.28	0.46
2:bL:184:TYR:OH	5:qr:178:PRO:CB	2.55	0.46
2:bQ:100:GLY:N	2:bQ:101:PRO:CD	2.78	0.46
2:bY:43:ALA:HB2	2:bY:209:TYR:OH	2.15	0.46
2:ce:30:THR:CG2	2:ce:298:LEU:HD13	2.45	0.46
1:ci:63:VAL:HG23	1:ci:99:LEU:CD1	2.42	0.46
2:co:61:GLY:CA	1:iq:103:ARG:NH1	2.70	0.46
2:cq:30:THR:CG2	2:cq:298:LEU:HD13	2.46	0.46
1:cv:100:LYS:N	1:dN:102:GLU:OE2	2.49	0.46
2:cA:46:THR:HG22	2:cA:74:GLN:HG2	1.96	0.46
2:cC:198:GLU:N	2:cC:198:GLU:OE1	2.48	0.46
2:cG:166:PRO:HG3	2:cG:259:ILE:HG23	1.98	0.46
1:cJ:102:GLU:OE2	1:iD:100:LYS:N	2.49	0.46
2:cO:6:PRO:HA	2:cO:9:ILE:HG22	1.96	0.46
2:cO:21:GLN:OE1	2:cO:21:GLN:HA	2.16	0.46
2:cU:55:LYS:HG3	2:cU:253:GLY:O	2.15	0.46
1:cZ:98:LEU:HD12	2:dh:63:ARG:O	2.16	0.46
1:db:67:CYS:HA	1:db:72:CYS:HA	1.98	0.46
2:dd:280:VAL:O	2:dd:289:ASN:ND2	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:df:65:ILE:HG22	2:df:66:LYS:N	2.30	0.46
2:dr:44:SER:OG	2:dr:75:ILE:O	2.21	0.46
2:dG:198:GLU:N	2:dG:198:GLU:OE1	2.48	0.46
2:dV:65:ILE:HG22	2:dV:66:LYS:N	2.30	0.46
2:dX:221:PHE:CG	2:dX:242:VAL:HG13	2.49	0.46
2:ek:174:ASP:OD1	2:ek:214:ARG:NH2	2.49	0.46
2:ew:198:GLU:OE1	2:ew:198:GLU:N	2.48	0.46
2:ey:60:ILE:CG2	2:ey:60:ILE:O	2.64	0.46
2:eM:243:TYR:O	2:eM:247:ARG:HG2	2.15	0.46
2:eO:100:GLY:N	2:eO:101:PRO:CD	2.78	0.46
1:eT:63:VAL:HG12	1:eT:99:LEU:HD13	1.97	0.46
2:fc:100:GLY:N	2:fc:101:PRO:CD	2.78	0.46
2:fm:198:GLU:OE1	2:fm:198:GLU:N	2.48	0.46
2:fo:30:THR:CG2	2:fo:298:LEU:HD13	2.46	0.46
2:fy:21:GLN:HA	2:fy:21:GLN:OE1	2.16	0.46
2:fz:24:LEU:HD21	2:mi:257:LEU:HD22	1.96	0.46
1:fL:67:CYS:HA	1:fL:72:CYS:HA	1.97	0.46
2:fM:193:THR:CG2	2:IU:193:THR:HG21	2.45	0.46
2:fN:24:LEU:HD21	2:gb:257:LEU:HD22	1.96	0.46
2:fN:205:MET:CE	2:gb:63:ARG:NE	2.74	0.46
2:fO:117:LEU:HD21	2:fO:211:TYR:CA	2.45	0.46
1:fV:99:LEU:HD23	1:mc:102:GLU:HB3	1.96	0.46
1:fV:102:GLU:HB3	1:nu:99:LEU:HD23	1.95	0.46
2:gb:42:THR:HG22	2:gb:43:ALA:N	2.30	0.46
2:gc:2:ALA:N	2:ml:85:GLY:O	2.48	0.46
2:ge:85:GLY:O	2:nB:2:ALA:N	2.48	0.46
1:gj:60:ARG:HH21	1:gL:99:LEU:HD21	0.59	0.46
2:gq:264:LEU:HB2	2:gq:295:VAL:HG11	1.97	0.46
2:gH:274:ALA:CB	2:gH:297:VAL:HG21	2.46	0.46
2:gW:185:GLN:O	2:gW:205:MET:N	2.43	0.46
2:he:6:PRO:HA	2:he:9:ILE:HG22	1.96	0.46
2:hh:95:ASN:C	2:hh:96:LEU:HD22	2.40	0.46
2:hi:278:VAL:HG21	2:hi:295:VAL:O	2.15	0.46
2:hs:170:TRP:HD1	5:qz:178:PRO:O	1.91	0.46
2:hv:60:ILE:HG23	2:hv:60:ILE:O	2.14	0.46
2:hx:55:LYS:HG3	2:hx:253:GLY:O	2.15	0.46
1:hy:102:GLU:CG	1:hE:99:LEU:HD23	2.18	0.46
2:hF:32:LEU:CA	5:qv:178:PRO:HG2	2.46	0.46
2:hW:60:ILE:HG23	2:hW:60:ILE:O	2.15	0.46
2:hW:243:TYR:O	2:hW:247:ARG:HG2	2.15	0.46
2:ig:43:ALA:HB2	2:ig:209:TYR:OH	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iy:30:THR:CG2	2:iy:298:LEU:HD13	2.46	0.46
1:iT:63:VAL:HG12	1:iT:99:LEU:HD13	1.97	0.46
2:iX:57:ARG:NH2	2:iX:58:GLU:O	2.48	0.46
2:iY:38:ILE:O	2:iY:38:ILE:HG13	2.15	0.46
2:ja:60:ILE:CG2	2:ja:60:ILE:O	2.64	0.46
2:jl:75:ILE:HG22	2:jl:76:THR:N	2.30	0.46
2:jm:198:GLU:OE1	2:jm:198:GLU:N	2.48	0.46
2:jm:264:LEU:HB2	2:jm:295:VAL:HG11	1.98	0.46
2:jo:243:TYR:O	2:jo:247:ARG:HG2	2.15	0.46
2:jQ:55:LYS:HG3	2:jQ:253:GLY:O	2.15	0.46
1:jv:98:LEU:O	2:le:197:LYS:NZ	2.47	0.46
2:jA:264:LEU:HB2	2:jA:295:VAL:HG11	1.97	0.46
2:jM:21:GLN:OE1	2:jM:21:GLN:HA	2.16	0.46
2:jP:83:THR:HG22	2:jP:84:VAL:N	2.30	0.46
2:jS:242:VAL:O	2:jS:246:MET:HG3	2.15	0.46
2:kg:55:LYS:HG3	2:kg:253:GLY:O	2.15	0.46
2:kD:117:LEU:HD21	2:kD:211:TYR:CA	2.46	0.46
2:kF:174:ASP:OD1	2:kF:214:ARG:NH2	2.49	0.46
1:kM:98:LEU:HD12	2:kU:63:ARG:O	2.15	0.46
2:kR:38:ILE:O	2:kR:38:ILE:HG13	2.15	0.46
2:ld:43:ALA:HB2	2:ld:209:TYR:OH	2.15	0.46
2:le:257:LEU:HD22	2:mK:24:LEU:HD21	1.96	0.46
2:lf:2:ALA:N	2:oH:85:GLY:O	2.48	0.46
2:lr:21:GLN:HA	2:lr:21:GLN:OE1	2.16	0.46
2:lt:117:LEU:HD21	2:lt:211:TYR:CA	2.46	0.46
2:lH:117:LEU:HD21	2:lH:211:TYR:CA	2.45	0.46
2:lJ:30:THR:CG2	2:lJ:298:LEU:HD13	2.46	0.46
2:IL:242:VAL:O	2:IL:246:MET:HG3	2.15	0.46
1:mc:100:LYS:N	1:nu:102:GLU:OE2	2.49	0.46
2:mi:67:ASP:HB2	2:mn:4:ILE:HD11	1.97	0.46
2:mK:62:GLN:CB	1:nu:103:ARG:O	2.63	0.46
2:ml:278:VAL:HG21	2:ml:295:VAL:O	2.15	0.46
2:mx:38:ILE:O	2:mx:38:ILE:HG13	2.15	0.46
2:my:267:PRO:HD2	2:my:270:LEU:HD12	1.98	0.46
2:mK:282:ARG:NH2	2:oq:282:ARG:HH11	1.93	0.46
2:mO:171:TYR:OH	2:mO:175:THR:OG1	2.12	0.46
2:mP:30:THR:CG2	2:mP:298:LEU:HD13	2.46	0.46
2:mP:242:VAL:O	2:mP:246:MET:HG3	2.15	0.46
1:mU:63:VAL:HG12	1:mU:99:LEU:HD13	1.97	0.46
2:mX:237:VAL:O	2:mX:237:VAL:HG12	2.14	0.46
2:mZ:281:GLN:OE1	2:mZ:281:GLN:N	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:na:95:ASN:C	2:na:96:LEU:HD22	2.40	0.46
2:nl:193:THR:CG2	2:oe:193:THR:HG21	2.45	0.46
2:nr:100:GLY:N	2:nr:101:PRO:CD	2.78	0.46
2:nC:83:THR:HG22	2:nC:84:VAL:N	2.29	0.46
2:nC:95:ASN:C	2:nC:96:LEU:HD22	2.40	0.46
1:nK:98:LEU:HD12	2:nS:63:ARG:O	2.16	0.46
1:nM:56:GLY:O	1:nM:57:VAL:HG23	2.14	0.46
2:nO:42:THR:HG22	2:nO:43:ALA:N	2.30	0.46
2:os:95:ASN:C	2:os:96:LEU:HD22	2.40	0.46
2:ov:55:LYS:HG3	2:ov:253:GLY:O	2.15	0.46
2:oF:264:LEU:HB2	2:oF:295:VAL:HG11	1.97	0.46
2:oH:30:THR:CG2	2:oH:298:LEU:HD13	2.46	0.46
2:oH:174:ASP:OD1	2:oH:214:ARG:NH2	2.49	0.46
2:oJ:30:THR:CG2	2:oJ:298:LEU:HD13	2.45	0.46
2:oT:117:LEU:HD21	2:oT:211:TYR:CA	2.45	0.46
2:oV:30:THR:CG2	2:oV:298:LEU:HD13	2.46	0.46
1:pe:67:CYS:HA	1:pe:72:CYS:HA	1.97	0.46
2:pg:42:THR:HG22	2:pg:43:ALA:N	2.30	0.46
2:pl:242:VAL:O	2:pl:246:MET:HG3	2.15	0.46
2:pw:95:ASN:C	2:pw:96:LEU:HD22	2.40	0.46
2:pz:228:ALA:HB1	2:pz:283:LEU:HG	1.97	0.46
2:pI:42:THR:HG22	2:pI:43:ALA:N	2.30	0.46
2:pK:83:THR:HA	2:pK:205:MET:HG2	1.97	0.46
2:pM:171:TYR:CZ	2:pM:175:THR:HG21	2.50	0.46
2:qa:203:VAL:HG12	2:qa:205:MET:HG3	1.96	0.46
3:qg:68:ALA:CA	4:qk:8:TYR:CZ	2.99	0.46
3:qi:78:VAL:HG12	3:qi:79:VAL:N	2.30	0.46
4:ql:18:ILE:N	4:ql:184:THR:O	2.43	0.46
4:ql:85:TYR:O	4:ql:180:ALA:N	2.48	0.46
4:qm:64:LYS:O	4:qn:55:ALA:HB1	2.15	0.46
5:qr:109:LEU:O	5:qr:113:LEU:HD13	2.16	0.46
5:qB:252:LEU:CD2	6:qE:126:GLN:HG2	2.36	0.46
2:ag:43:ALA:HB2	2:ag:209:TYR:OH	2.15	0.46
2:ai:38:ILE:O	2:ai:38:ILE:HG13	2.15	0.46
2:al:274:ALA:CB	2:al:297:VAL:HG21	2.46	0.46
1:ap:99:LEU:HD23	1:hN:102:GLU:HB3	1.96	0.46
1:aq:103:ARG:NH1	2:kp:61:GLY:CA	2.70	0.46
2:ax:60:ILE:CG2	2:ax:60:ILE:O	2.64	0.46
2:az:180:LYS:HD2	5:qH:178:PRO:CG	2.40	0.46
2:az:242:VAL:O	2:az:246:MET:HG3	2.15	0.46
2:aH:43:ALA:HB2	2:aH:209:TYR:OH	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aI:75:ILE:HG22	2:aI:76:THR:N	2.30	0.46
2:aL:60:ILE:CG2	2:aL:60:ILE:O	2.64	0.46
2:aV:21:GLN:HA	2:aV:21:GLN:OE1	2.16	0.46
2:aY:267:PRO:HD2	2:aY:270:LEU:HD12	1.98	0.46
2:bb:228:ALA:HB1	2:bb:283:LEU:HG	1.97	0.46
2:bm:267:PRO:HD2	2:bm:270:LEU:HD12	1.98	0.46
1:bs:100:LYS:N	1:eR:102:GLU:OE2	2.49	0.46
1:bs:102:GLU:HB2	1:bT:99:LEU:CD2	2.33	0.46
2:bx:62:GLN:OE1	1:hP:102:GLU:HG2	2.02	0.46
2:bx:150:THR:OG1	2:bx:220:GLY:O	2.18	0.46
2:bz:117:LEU:HD21	2:bz:211:TYR:CA	2.46	0.46
2:bB:243:TYR:O	2:bB:247:ARG:HG2	2.15	0.46
2:bO:60:ILE:CG2	2:bO:60:ILE:O	2.64	0.46
2:co:264:LEU:HB2	2:co:295:VAL:HG11	1.98	0.46
2:cq:243:TYR:O	2:cq:247:ARG:HG2	2.15	0.46
2:cB:193:THR:HG21	2:cO:193:THR:CG2	2.45	0.46
2:cC:38:ILE:O	2:cC:38:ILE:HG13	2.15	0.46
2:cC:117:LEU:HD21	2:cC:211:TYR:CA	2.46	0.46
1:cJ:100:LYS:N	1:po:102:GLU:OE2	2.49	0.46
2:cP:274:ALA:CB	2:cP:297:VAL:HG21	2.44	0.46
2:cQ:2:ALA:N	2:px:85:GLY:O	2.48	0.46
2:de:2:ALA:N	2:gG:85:GLY:O	2.48	0.46
2:df:267:PRO:HD2	2:df:270:LEU:HD12	1.98	0.46
2:du:60:ILE:CG2	2:du:60:ILE:O	2.64	0.46
2:dE:6:PRO:HA	2:dE:9:ILE:HG22	1.96	0.46
2:dF:24:LEU:HD21	2:pg:257:LEU:HD22	1.96	0.46
2:dF:205:MET:CE	2:pg:63:ARG:NE	2.74	0.46
2:dI:85:GLY:O	2:gE:2:ALA:N	2.48	0.46
2:dI:278:VAL:HG21	2:dI:295:VAL:O	2.15	0.46
1:dQ:102:GLU:CG	1:jG:99:LEU:HD11	2.42	0.46
2:dT:75:ILE:HG22	2:dT:76:THR:N	2.30	0.46
2:dU:38:ILE:O	2:dU:38:ILE:HG13	2.15	0.46
2:dU:117:LEU:HD21	2:dU:211:TYR:CA	2.46	0.46
1:ef:67:CYS:HA	1:ef:72:CYS:HA	1.98	0.46
2:ei:2:ALA:N	2:fC:85:GLY:O	2.48	0.46
2:ew:38:ILE:O	2:ew:38:ILE:HG13	2.15	0.46
2:ey:85:GLY:O	2:ph:2:ALA:N	2.48	0.46
2:eI:43:ALA:HB2	2:eI:209:TYR:OH	2.15	0.46
2:eJ:67:ASP:HB2	2:eO:4:ILE:HD11	1.97	0.46
2:eY:117:LEU:HD21	2:eY:211:TYR:CA	2.45	0.46
2:fq:30:THR:CG2	2:fq:298:LEU:HD13	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fq:100:GLY:N	2:fq:101:PRO:CD	2.78	0.46
1:fs:67:CYS:HA	1:fs:72:CYS:HA	1.96	0.46
1:fx:67:CYS:HA	1:fx:72:CYS:HA	1.98	0.46
2:fA:2:ALA:N	2:of:85:GLY:O	2.48	0.46
1:fH:102:GLU:CD	1:mq:99:LEU:CA	2.87	0.46
2:fP:83:THR:HA	2:fP:205:MET:HG2	1.97	0.46
2:fQ:60:ILE:CG2	2:fQ:60:ILE:O	2.64	0.46
2:fQ:174:ASP:OD1	2:fQ:214:ARG:NH2	2.49	0.46
2:fS:30:THR:CG2	2:fS:298:LEU:HD13	2.45	0.46
1:fY:67:CYS:HA	1:fY:72:CYS:HA	1.98	0.46
2:gb:44:SER:OG	2:gb:75:ILE:O	2.21	0.46
2:gc:198:GLU:OE1	2:gc:198:GLU:N	2.48	0.46
1:gl:98:LEU:O	2:hT:197:LYS:NZ	2.47	0.46
1:gl:98:LEU:HD12	2:gt:63:ARG:O	2.15	0.46
2:go:21:GLN:HA	2:go:21:GLN:OE1	2.16	0.46
2:gG:30:THR:CG2	2:gG:298:LEU:HD13	2.46	0.46
1:gN:98:LEU:HD12	2:gV:63:ARG:O	2.15	0.46
2:gR:63:ARG:NE	2:ih:205:MET:CE	2.74	0.46
2:gU:243:TYR:O	2:gU:247:ARG:HG2	2.15	0.46
2:hg:117:LEU:HD21	2:hg:211:TYR:CA	2.45	0.46
2:hk:55:LYS:HG3	2:hk:253:GLY:O	2.15	0.46
2:hk:100:GLY:N	2:hk:101:PRO:CD	2.78	0.46
2:hv:85:GLY:O	2:kR:2:ALA:N	2.48	0.46
2:hv:174:ASP:OD1	2:hv:214:ARG:NH2	2.49	0.46
2:hX:100:GLY:N	2:hX:101:PRO:CD	2.78	0.46
1:hA:102:GLU:OE2	1:lO:100:LYS:N	2.49	0.46
2:hH:62:GLN:CB	1:kw:103:ARG:O	2.63	0.46
2:hH:83:THR:HG22	2:hH:84:VAL:N	2.30	0.46
2:hS:21:GLN:OE1	2:hS:21:GLN:HA	2.16	0.46
2:hW:278:VAL:HG21	2:hW:295:VAL:O	2.15	0.46
2:iv:257:LEU:HD22	2:jN:24:LEU:HD21	1.96	0.46
2:iA:166:PRO:HG3	2:iA:259:ILE:HG23	1.98	0.46
2:iL:267:PRO:HD2	2:iL:270:LEU:HD12	1.98	0.46
2:iO:242:VAL:O	2:iO:246:MET:HG3	2.15	0.46
2:iY:2:ALA:N	2:kr:85:GLY:O	2.48	0.46
2:jC:242:VAL:O	2:jC:246:MET:HG3	2.15	0.46
2:jo:60:ILE:CG2	2:jo:60:ILE:O	2.63	0.46
1:jH:99:LEU:CA	1:oM:102:GLU:CD	2.87	0.46
1:jH:100:LYS:N	1:oM:102:GLU:OE2	2.49	0.46
2:jN:42:THR:HG22	2:jN:43:ALA:N	2.30	0.46
2:jO:117:LEU:HD21	2:jO:211:TYR:CA	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jS:100:GLY:N	2:jS:101:PRO:CD	2.78	0.46
1:jV:102:GLU:HB3	1:mS:99:LEU:HD23	1.96	0.46
2:kc:264:LEU:HB2	2:kc:295:VAL:HG11	1.97	0.46
2:ke:85:GLY:O	2:mZ:2:ALA:N	2.48	0.46
2:kp:198:GLU:OE1	2:kp:198:GLU:N	2.48	0.46
2:kr:30:THR:CG2	2:kr:298:LEU:HD13	2.46	0.46
2:kr:278:VAL:HG21	2:kr:295:VAL:O	2.15	0.46
2:kt:100:GLY:N	2:kt:101:PRO:CD	2.78	0.46
2:kR:63:ARG:NH2	2:kU:205:MET:SD	2.84	0.46
2:kR:198:GLU:N	2:kR:198:GLU:OE1	2.48	0.46
2:kR:264:LEU:HB2	2:kR:295:VAL:HG11	1.97	0.46
2:kS:83:THR:HA	2:kS:205:MET:HG2	1.97	0.46
2:kS:95:ASN:C	2:kS:96:LEU:HD22	2.40	0.46
1:kZ:62:THR:OG1	1:kZ:100:LYS:O	2.27	0.46
2:lu:267:PRO:HD2	2:lu:270:LEU:HD12	1.98	0.46
2:lx:30:THR:CG2	2:lx:298:LEU:HD13	2.46	0.46
2:lx:228:ALA:HB1	2:lx:283:LEU:HG	1.97	0.46
2:II:267:PRO:HD2	2:II:270:LEU:HD12	1.98	0.46
2:IL:166:PRO:HG3	2:IL:259:ILE:HG23	1.98	0.46
2:IW:65:ILE:HG22	2:IW:66:LYS:N	2.30	0.46
2:IZ:185:GLN:O	2:IZ:205:MET:N	2.43	0.46
2:ml:30:THR:CG2	2:ml:298:LEU:HD13	2.46	0.46
2:ml:60:ILE:HG23	2:ml:60:ILE:O	2.14	0.46
2:ml:174:ASP:OD1	2:ml:214:ARG:NH2	2.49	0.46
2:mn:100:GLY:N	2:mn:101:PRO:CD	2.78	0.46
2:mw:205:MET:CE	2:oE:63:ARG:NE	2.74	0.46
2:mB:166:PRO:HG3	2:mB:259:ILE:HG23	1.98	0.46
1:mG:63:VAL:HG12	1:mG:99:LEU:HD13	1.97	0.46
2:mN:85:GLY:O	2:nn:2:ALA:N	2.48	0.46
2:mP:185:GLN:O	2:mP:205:MET:N	2.43	0.46
1:mW:56:GLY:O	1:mW:57:VAL:HG23	2.14	0.46
2:nd:55:LYS:HG3	2:nd:253:GLY:O	2.15	0.46
2:nd:100:GLY:N	2:nd:101:PRO:CD	2.78	0.46
2:nl:43:ALA:HB2	2:nl:209:TYR:OH	2.15	0.46
2:nr:30:THR:CG2	2:nr:298:LEU:HD13	2.46	0.46
2:nB:264:LEU:HB2	2:nB:295:VAL:HG11	1.98	0.46
2:nE:89:THR:N	2:nE:200:ASP:OD2	2.36	0.46
1:nK:63:VAL:HG12	1:nK:99:LEU:HD13	1.97	0.46
1:nM:67:CYS:HA	1:nM:72:CYS:HA	1.97	0.46
2:oe:65:ILE:HG22	2:oe:66:LYS:N	2.30	0.46
2:ov:30:THR:CG2	2:ov:298:LEU:HD13	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oJ:100:GLY:N	2:oJ:101:PRO:CD	2.78	0.46
1:oN:63:VAL:HG23	1:oN:99:LEU:CD1	2.42	0.46
1:pb:62:THR:OG1	1:pb:100:LYS:O	2.27	0.46
2:ph:264:LEU:HB2	2:ph:295:VAL:HG11	1.98	0.46
2:pj:60:ILE:CG2	2:pj:60:ILE:O	2.64	0.46
2:pj:174:ASP:OD1	2:pj:214:ARG:NH2	2.49	0.46
2:pt:6:PRO:HA	2:pt:9:ILE:HG22	1.96	0.46
2:pt:21:GLN:HA	2:pt:21:GLN:OE1	2.16	0.46
2:pv:117:LEU:HD21	2:pv:211:TYR:CA	2.45	0.46
2:px:174:ASP:OD1	2:px:214:ARG:NH2	2.49	0.46
2:pz:55:LYS:HG3	2:pz:253:GLY:O	2.15	0.46
1:pG:67:CYS:HA	1:pG:72:CYS:HA	1.98	0.46
2:pK:267:PRO:HD2	2:pK:270:LEU:HD12	1.98	0.46
3:qd:78:VAL:HB	3:qd:141:LEU:HD22	1.96	0.46
4:qj:179:THR:CG2	4:qk:247:GLY:HA3	2.46	0.46
4:qm:48:GLU:HG2	4:qm:57:VAL:HG11	1.98	0.46
4:qo:48:GLU:HG2	4:qo:57:VAL:HG11	1.98	0.46
6:qq:58:LEU:HD12	6:qM:112:LEU:CD2	1.00	0.46
5:qt:236:LEU:HD21	5:qv:266:ILE:CD1	2.46	0.46
5:qv:109:LEU:O	5:qv:113:LEU:HD13	2.16	0.46
1:ab:102:GLU:OE2	1:mE:100:LYS:N	2.49	0.46
1:ap:102:GLU:OE2	1:dl:100:LYS:N	2.49	0.46
2:az:30:THR:CG2	2:az:298:LEU:HD13	2.46	0.46
1:aA:100:LYS:HD3	1:kn:100:LYS:HZ1	1.79	0.46
1:aC:99:LEU:HD23	1:kK:102:GLU:HB3	1.96	0.46
1:aC:103:ARG:O	2:hu:62:GLN:CB	2.62	0.46
2:aL:174:ASP:OD1	2:aL:214:ARG:NH2	2.49	0.46
2:aN:55:LYS:HG3	2:aN:253:GLY:O	2.15	0.46
1:aP:100:LYS:CB	1:pr:100:LYS:CE	2.92	0.46
1:aQ:102:GLU:OE2	1:jf:100:LYS:N	2.49	0.46
1:aS:98:LEU:HD12	2:ba:63:ARG:O	2.15	0.46
2:bb:55:LYS:HG3	2:bb:253:GLY:O	2.15	0.46
2:bl:198:GLU:OE1	2:bl:198:GLU:N	2.48	0.46
2:bl:281:GLN:N	2:bl:281:GLN:OE1	2.44	0.46
1:bu:98:LEU:HD12	2:bC:63:ARG:O	2.15	0.46
1:bv:67:CYS:HA	1:bv:72:CYS:HA	1.98	0.46
2:bB:85:GLY:O	2:ca:2:ALA:N	2.48	0.46
1:bG:102:GLU:OE2	1:gj:100:LYS:N	2.49	0.46
1:bT:102:GLU:OE2	1:eR:100:LYS:N	2.49	0.46
1:bV:102:GLU:CD	2:dq:62:GLN:OE1	2.53	0.46
1:bX:67:CYS:HA	1:bX:72:CYS:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bY:21:GLN:OE1	2:bY:21:GLN:HA	2.16	0.46
2:bY:61:GLY:CA	1:iF:103:ARG:HD2	2.40	0.46
2:cc:85:GLY:O	2:eY:2:ALA:N	2.48	0.46
1:cj:98:LEU:O	2:iv:197:LYS:NZ	2.47	0.46
2:co:38:ILE:O	2:co:38:ILE:HG13	2.15	0.46
1:cv:99:LEU:CA	1:dN:102:GLU:CD	2.87	0.46
2:cG:55:LYS:HG3	2:cG:253:GLY:O	2.15	0.46
1:cJ:103:ARG:O	2:iL:62:GLN:CB	2.63	0.46
2:cP:141:HIS:CD2	2:cP:150:THR:HG1	2.32	0.46
2:cP:197:LYS:NZ	1:eT:98:LEU:O	2.47	0.46
1:cY:99:LEU:CB	1:dy:102:GLU:OE1	2.62	0.46
2:ds:198:GLU:N	2:ds:198:GLU:OE1	2.48	0.46
2:du:60:ILE:HG23	2:du:60:ILE:O	2.14	0.46
2:dW:100:GLY:N	2:dW:101:PRO:CD	2.78	0.46
2:dU:264:LEU:HB2	2:dU:295:VAL:HG11	1.97	0.46
2:dY:100:GLY:N	2:dY:101:PRO:CD	2.78	0.46
2:ek:30:THR:CG2	2:ek:298:LEU:HD13	2.46	0.46
1:et:56:GLY:O	1:et:57:VAL:HG23	2.14	0.46
2:ew:2:ALA:N	2:nR:85:GLY:O	2.49	0.46
2:ew:264:LEU:HB2	2:ew:295:VAL:HG11	1.97	0.46
2:eZ:95:ASN:C	2:eZ:96:LEU:HD22	2.40	0.46
1:fi:67:CYS:HA	1:fi:72:CYS:HA	1.98	0.46
2:fn:267:PRO:HD2	2:fn:270:LEU:HD12	1.98	0.46
2:fy:62:GLN:OE1	1:me:102:GLU:HG2	2.02	0.46
2:fz:257:LEU:HD22	2:nM:24:LEU:HD21	1.96	0.46
2:fR:274:ALA:CB	2:fR:297:VAL:HG21	2.46	0.46
2:fS:55:LYS:HG3	2:fS:253:GLY:O	2.15	0.46
2:gc:23:ALA:C	2:gc:24:LEU:HD22	2.41	0.46
2:gd:65:ILE:HG22	2:gd:66:LYS:N	2.30	0.46
2:ge:30:THR:CG2	2:ge:298:LEU:HD13	2.46	0.46
2:gg:100:GLY:N	2:gg:101:PRO:CD	2.78	0.46
2:gp:67:ASP:HB2	2:gu:4:ILE:HD11	1.97	0.46
2:gu:14:THR:CG2	2:hT:12:LEU:HD21	2.46	0.46
2:gI:30:THR:CG2	2:gI:298:LEU:HD13	2.46	0.46
2:gR:75:ILE:HG22	2:gR:76:THR:N	2.30	0.46
2:gU:60:ILE:HG23	2:gU:60:ILE:O	2.15	0.46
2:gW:14:THR:CG2	2:ih:12:LEU:HD21	2.46	0.46
2:he:237:VAL:O	2:he:237:VAL:HG12	2.14	0.46
2:hi:60:ILE:CG2	2:hi:60:ILE:O	2.64	0.46
2:hi:174:ASP:OD1	2:hi:214:ARG:NH2	2.49	0.46
2:hk:30:THR:CG2	2:hk:298:LEU:HD13	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hp:63:VAL:HG12	1:hp:99:LEU:HD13	1.97	0.46
2:hs:104:GLN:CB	5:qB:178:PRO:HB2	2.31	0.46
2:hH:267:PRO:HD2	2:hH:270:LEU:HD12	1.98	0.46
2:hU:117:LEU:HD21	2:hU:211:TYR:CA	2.46	0.46
2:hV:83:THR:HG22	2:hV:84:VAL:N	2.29	0.46
2:hY:30:THR:CG2	2:hY:298:LEU:HD13	2.46	0.46
2:ii:198:GLU:N	2:ii:198:GLU:OE1	2.48	0.46
2:im:30:THR:CG2	2:im:298:LEU:HD13	2.46	0.46
1:ip:99:LEU:HD21	1:pQ:60:ARG:HH21	0.59	0.46
1:ip:100:LYS:N	1:pQ:102:GLU:OE2	2.49	0.46
2:iw:117:LEU:HD21	2:iw:211:TYR:CA	2.45	0.46
2:iw:198:GLU:N	2:iw:198:GLU:OE1	2.48	0.46
2:iO:228:ALA:HB1	2:iO:283:LEU:HG	1.97	0.46
2:iX:75:ILE:HG22	2:iX:76:THR:N	2.30	0.46
2:iX:193:THR:HG21	2:jk:193:THR:CG2	2.45	0.46
2:iY:117:LEU:HD21	2:iY:211:TYR:CA	2.45	0.46
2:iZ:83:THR:HG22	2:iZ:84:VAL:N	2.29	0.46
2:iZ:267:PRO:HD2	2:iZ:270:LEU:HD12	1.98	0.46
2:jo:30:THR:CG2	2:jo:298:LEU:HD13	2.46	0.46
1:jt:99:LEU:CA	1:mS:102:GLU:CD	2.87	0.46
1:jv:63:VAL:HG12	1:jv:99:LEU:HD13	1.97	0.46
2:jz:57:ARG:NH2	2:jz:58:GLU:O	2.48	0.46
2:jA:2:ALA:N	2:nb:85:GLY:O	2.49	0.46
2:jB:95:ASN:C	2:jB:96:LEU:HD22	2.40	0.46
2:kc:198:GLU:OE1	2:kc:198:GLU:N	2.48	0.46
2:ko:21:GLN:HA	2:ko:21:GLN:OE1	2.16	0.46
2:kq:65:ILE:HG22	2:kq:66:LYS:N	2.30	0.46
2:kB:230:SER:O	2:kB:231:THR:HG22	2.14	0.46
2:kC:197:LYS:NZ	1:kM:98:LEU:O	2.47	0.46
2:kD:38:ILE:O	2:kD:38:ILE:HG13	2.15	0.46
2:kE:196:THR:HG21	2:kU:192:PHE:CZ	2.42	0.46
2:kF:30:THR:CG2	2:kF:298:LEU:HD13	2.46	0.46
1:kY:100:LYS:N	1:oy:102:GLU:OE2	2.49	0.46
2:le:42:THR:HG22	2:le:43:ALA:N	2.30	0.46
2:le:67:ASP:HB2	2:lj:4:ILE:HD11	1.97	0.46
2:le:75:ILE:HG22	2:le:76:THR:N	2.30	0.46
2:lF:21:GLN:HA	2:lF:21:GLN:OE1	2.16	0.46
2:lG:42:THR:HG22	2:lG:43:ALA:N	2.30	0.46
2:lH:198:GLU:N	2:lH:198:GLU:OE1	2.48	0.46
2:IL:100:GLY:N	2:IL:101:PRO:CD	2.78	0.46
1:lS:67:CYS:HA	1:lS:72:CYS:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IT:21:GLN:OE1	2:IT:21:GLN:HA	2.16	0.46
2:IX:174:ASP:OD1	2:IX:214:ARG:NH2	2.49	0.46
2:IZ:242:VAL:O	2:IZ:246:MET:HG3	2.15	0.46
2:mj:38:ILE:O	2:mj:38:ILE:HG13	2.15	0.46
2:mn:30:THR:CG2	2:mn:298:LEU:HD13	2.45	0.46
2:my:65:ILE:HG22	2:my:66:LYS:N	2.30	0.46
1:mF:63:VAL:HG23	1:mF:99:LEU:CD1	2.42	0.46
2:nm:257:LEU:HD22	2:oE:24:LEU:HD21	1.97	0.46
1:nw:98:LEU:HD12	2:nE:63:ARG:O	2.15	0.46
2:nD:30:THR:CG2	2:nD:298:LEU:HD13	2.46	0.46
2:nD:60:ILE:CG2	2:nD:60:ILE:O	2.64	0.46
1:nI:99:LEU:CD1	1:pa:60:ARG:NH2	2.52	0.46
2:nT:228:ALA:HB1	2:nT:283:LEU:HG	1.97	0.46
2:ob:21:GLN:OE1	2:ob:21:GLN:HA	2.16	0.46
2:oe:267:PRO:HD2	2:oe:270:LEU:HD12	1.98	0.46
2:ot:30:THR:CG2	2:ot:298:LEU:HD13	2.46	0.46
2:oD:6:PRO:HA	2:oD:9:ILE:HG22	1.96	0.46
2:oE:75:ILE:HG22	2:oE:76:THR:N	2.30	0.46
2:oG:95:ASN:C	2:oG:96:LEU:HD22	2.40	0.46
1:oO:63:VAL:HG12	1:oO:99:LEU:HD13	1.97	0.46
2:oV:60:ILE:CG2	2:oV:60:ILE:O	2.64	0.46
2:pf:182:LEU:HG	2:pf:182:LEU:O	2.16	0.46
2:pi:267:PRO:HD2	2:pi:270:LEU:HD12	1.98	0.46
1:pq:98:LEU:HD12	2:py:63:ARG:O	2.15	0.46
2:pu:24:LEU:HD21	2:pI:257:LEU:HD22	1.96	0.46
2:pw:267:PRO:HD2	2:pw:270:LEU:HD12	1.98	0.46
2:pz:242:VAL:O	2:pz:246:MET:HG3	2.15	0.46
2:pI:67:ASP:HB2	2:pN:4:ILE:HD11	1.97	0.46
2:pL:243:TYR:O	2:pL:247:ARG:HG2	2.15	0.46
2:pM:274:ALA:CB	2:pM:297:VAL:HG21	2.46	0.46
2:pX:198:GLU:N	2:pX:198:GLU:OE1	2.48	0.46
2:pY:65:ILE:HG22	2:pY:66:LYS:N	2.30	0.46
2:pZ:243:TYR:O	2:pZ:247:ARG:HG2	2.15	0.46
4:qj:247:GLY:HA3	4:qo:179:THR:CG2	2.46	0.46
4:qm:83:THR:HG21	4:qm:228:MET:CE	2.46	0.46
5:qz:236:LEU:HD21	5:qB:266:ILE:CD1	2.46	0.46
6:qE:112:LEU:CD2	6:qG:58:LEU:HD13	0.62	0.46
5:qF:144:GLN:O	5:qF:144:GLN:CD	2.58	0.46
5:qL:109:LEU:O	5:qL:113:LEU:HD13	2.16	0.46
2:ak:69:ALA:HB2	2:np:4:ILE:H	1.81	0.46
2:am:242:VAL:O	2:am:246:MET:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ar:98:LEU:HD12	2:ay:63:ARG:O	2.15	0.46
2:aH:182:LEU:HG	2:aH:182:LEU:O	2.16	0.46
2:aJ:117:LEU:HD21	2:aJ:211:TYR:CA	2.46	0.46
1:aT:67:CYS:HA	1:aT:72:CYS:HA	1.98	0.46
2:bl:117:LEU:HD21	2:bl:211:TYR:CA	2.46	0.46
2:bn:60:ILE:HG23	2:bn:60:ILE:O	2.15	0.46
2:bn:85:GLY:O	2:kp:2:ALA:N	2.49	0.46
2:by:75:ILE:HG22	2:by:76:THR:N	2.30	0.46
2:bB:278:VAL:HG21	2:bB:295:VAL:O	2.15	0.46
2:bO:30:THR:CG2	2:bO:298:LEU:HD13	2.46	0.46
1:bV:102:GLU:HG2	2:dq:62:GLN:OE1	2.02	0.46
2:bZ:12:LEU:HD21	2:iO:14:THR:CG2	2.46	0.46
2:cb:267:PRO:HD2	2:cb:270:LEU:HD12	1.98	0.46
2:cA:43:ALA:HB2	2:cA:209:TYR:OH	2.15	0.46
2:cB:57:ARG:NH2	2:cB:58:GLU:O	2.48	0.46
2:cG:14:THR:CG2	2:pg:12:LEU:HD21	2.46	0.46
2:cP:24:LEU:HD21	2:eX:257:LEU:HD22	1.96	0.46
2:cP:75:ILE:HG22	2:cP:76:THR:N	2.30	0.46
1:da:67:CYS:HA	1:da:72:CYS:HA	1.98	0.46
2:de:38:ILE:O	2:de:38:ILE:HG13	2.15	0.46
2:de:264:LEU:HB2	2:de:295:VAL:HG11	1.98	0.46
2:df:95:ASN:C	2:df:96:LEU:HD22	2.40	0.46
2:dG:174:ASP:OD1	2:dG:214:ARG:NH2	2.49	0.46
2:di:55:LYS:HG3	2:di:253:GLY:O	2.15	0.46
2:ds:23:ALA:C	2:ds:24:LEU:HD22	2.41	0.46
2:du:174:ASP:OD1	2:du:214:ARG:NH2	2.49	0.46
1:dC:67:CYS:HA	1:dC:72:CYS:HA	1.98	0.46
1:dD:67:CYS:HA	1:dD:72:CYS:HA	1.98	0.46
2:dF:42:THR:HG22	2:dF:43:ALA:N	2.30	0.46
2:dK:55:LYS:HG3	2:dK:253:GLY:O	2.15	0.46
2:dK:185:GLN:O	2:dK:205:MET:N	2.43	0.46
1:dN:99:LEU:CD1	1:pC:60:ARG:NH2	2.52	0.46
1:dP:98:LEU:O	2:oS:197:LYS:NZ	2.47	0.46
2:dU:81:GLU:O	2:dW:57:ARG:N	2.39	0.46
2:eg:43:ALA:HB2	2:eg:209:TYR:OH	2.15	0.46
2:ej:267:PRO:HD2	2:ej:270:LEU:HD12	1.98	0.46
2:eI:21:GLN:OE1	2:eI:21:GLN:HA	2.16	0.46
2:eM:174:ASP:OD1	2:eM:214:ARG:NH2	2.49	0.46
2:eW:237:VAL:O	2:eW:237:VAL:HG12	2.14	0.46
2:eX:42:THR:HG22	2:eX:43:ALA:N	2.30	0.46
2:eY:53:PHE:O	2:eY:255:ARG:NH2	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eZ:65:ILE:HG22	2:eZ:66:LYS:N	2.30	0.46
2:fc:166:PRO:HG3	2:fc:259:ILE:HG23	1.98	0.46
1:fh:98:LEU:HD12	2:fp:63:ARG:O	2.15	0.46
2:fl:75:ILE:HG22	2:fl:76:THR:N	2.30	0.46
2:fQ:60:ILE:HG23	2:fQ:60:ILE:O	2.14	0.46
2:fS:242:VAL:O	2:fS:246:MET:HG3	2.15	0.46
2:gr:267:PRO:HD2	2:gr:270:LEU:HD12	1.98	0.46
2:gu:242:VAL:O	2:gu:246:MET:HG3	2.15	0.46
2:gC:182:LEU:HG	2:gC:182:LEU:O	2.16	0.46
2:gD:57:ARG:NH2	2:gD:58:GLU:O	2.48	0.46
2:gI:166:PRO:HG3	2:gI:259:ILE:HG23	1.98	0.46
2:gR:42:THR:HG22	2:gR:43:ALA:N	2.30	0.46
2:gT:83:THR:HG22	2:gT:84:VAL:N	2.30	0.46
2:gU:30:THR:CG2	2:gU:298:LEU:HD13	2.46	0.46
2:gU:174:ASP:OD1	2:gU:214:ARG:NH2	2.49	0.46
2:gV:274:ALA:CB	2:gV:297:VAL:HG21	2.46	0.46
2:gW:55:LYS:HG3	2:gW:253:GLY:O	2.15	0.46
1:gZ:99:LEU:CA	1:mq:102:GLU:CD	2.87	0.46
2:hF:75:ILE:HG22	2:hF:76:THR:N	2.30	0.46
1:hn:102:GLU:CD	1:kK:99:LEU:CA	2.87	0.46
1:ho:63:VAL:HG23	1:ho:99:LEU:CD1	2.42	0.46
2:hs:6:PRO:HA	2:hs:9:ILE:HG22	1.96	0.46
2:hu:267:PRO:HD2	2:hu:270:LEU:HD12	1.98	0.46
2:hv:34:VAL:HG12	2:hv:263:LEU:HD21	1.96	0.46
2:hI:4:ILE:H	2:IX:69:ALA:HB2	1.81	0.46
2:hI:243:TYR:O	2:hI:247:ARG:HG2	2.15	0.46
2:hK:183:ILE:HD12	5:qt:177:SER:HA	1.74	0.46
2:hY:166:PRO:HG3	2:hY:259:ILE:HG23	1.98	0.46
1:if:67:CYS:HA	1:if:72:CYS:HA	1.98	0.46
2:ih:42:THR:HG22	2:ih:43:ALA:N	2.30	0.46
2:ik:30:THR:CG2	2:ik:298:LEU:HD13	2.46	0.46
2:iw:264:LEU:HB2	2:iw:295:VAL:HG11	1.97	0.46
2:ix:267:PRO:HD2	2:ix:270:LEU:HD12	1.98	0.46
2:iz:230:SER:HB2	2:iz:234:LEU:HD23	1.96	0.46
2:iA:30:THR:CG2	2:iA:298:LEU:HD13	2.45	0.46
2:iJ:67:ASP:HB2	2:iO:4:ILE:HD11	1.97	0.46
2:iK:38:ILE:O	2:iK:38:ILE:HG13	2.15	0.46
1:iR:99:LEU:HD21	1:kj:60:ARG:HH21	0.59	0.46
1:iR:99:LEU:CA	1:kj:102:GLU:CD	2.87	0.46
2:iW:21:GLN:OE1	2:iW:21:GLN:HA	2.16	0.46
2:ja:243:TYR:O	2:ja:247:ARG:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jm:23:ALA:C	2:jm:24:LEU:HD22	2.41	0.46
1:jv:98:LEU:HD12	2:jD:63:ARG:O	2.15	0.46
2:jC:30:THR:CG2	2:jC:298:LEU:HD13	2.46	0.46
2:jC:85:GLY:O	2:kc:2:ALA:N	2.48	0.46
2:jM:46:THR:HG22	2:jM:74:GLN:HG2	1.96	0.46
2:jP:267:PRO:HD2	2:jP:270:LEU:HD12	1.98	0.46
2:jR:274:ALA:CB	2:jR:297:VAL:HG21	2.46	0.46
2:jS:14:THR:CG2	2:pI:12:LEU:HD21	2.46	0.46
1:jV:102:GLU:OE2	1:mS:100:LYS:N	2.49	0.46
1:jX:63:VAL:HG12	1:jX:99:LEU:HD13	1.97	0.46
2:kb:67:ASP:HB2	2:kg:4:ILE:HD11	1.97	0.46
2:ke:174:ASP:OD1	2:ke:214:ARG:NH2	2.49	0.46
2:kf:274:ALA:CB	2:kf:297:VAL:HG21	2.46	0.46
2:kD:23:ALA:C	2:kD:24:LEU:HD22	2.41	0.46
2:kF:243:TYR:O	2:kF:247:ARG:HG2	2.15	0.46
1:kO:67:CYS:HA	1:kO:72:CYS:HA	1.98	0.46
2:kQ:42:THR:HG22	2:kQ:43:ALA:N	2.30	0.46
2:lt:38:ILE:O	2:lt:38:ILE:HG13	2.15	0.46
2:lu:95:ASN:C	2:lu:96:LEU:HD22	2.40	0.46
2:lJ:60:ILE:CG2	2:lJ:60:ILE:O	2.64	0.46
2:lL:14:THR:CG2	2:mY:12:LEU:HD21	2.46	0.46
2:lX:243:TYR:O	2:lX:247:ARG:HG2	2.15	0.46
2:lZ:30:THR:CG2	2:lZ:298:LEU:HD13	2.46	0.46
1:mf:67:CYS:HA	1:mf:72:CYS:HA	1.98	0.46
1:mg:67:CYS:HA	1:mg:72:CYS:HA	1.98	0.46
2:mj:23:ALA:C	2:mj:24:LEU:HD22	2.41	0.46
2:mv:182:LEU:HG	2:mv:182:LEU:O	2.16	0.46
2:my:83:THR:HG22	2:my:84:VAL:N	2.29	0.46
2:mK:57:ARG:NH2	2:mK:58:GLU:O	2.48	0.46
2:mL:23:ALA:C	2:mL:24:LEU:HD22	2.41	0.46
2:mL:38:ILE:HG13	2:mL:38:ILE:O	2.15	0.46
2:mP:14:THR:CG2	2:oq:12:LEU:HD21	2.46	0.46
1:mV:67:CYS:HA	1:mV:72:CYS:HA	1.98	0.46
2:nq:274:ALA:CB	2:nq:297:VAL:HG21	2.46	0.46
2:nF:100:GLY:N	2:nF:101:PRO:CD	2.78	0.46
2:nN:61:GLY:CA	1:nY:103:ARG:HD2	2.40	0.46
2:nP:2:ALA:N	2:pj:85:GLY:O	2.48	0.46
2:nR:69:ALA:HB2	2:pj:4:ILE:H	1.81	0.46
2:nR:278:VAL:HG21	2:nR:295:VAL:O	2.15	0.46
2:of:174:ASP:OD1	2:of:214:ARG:NH2	2.49	0.46
2:or:117:LEU:HD21	2:or:211:TYR:CA	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oE:42:THR:HG22	2:oE:43:ALA:N	2.30	0.46
2:oG:83:THR:HG22	2:oG:84:VAL:N	2.29	0.46
2:oS:42:THR:HG22	2:oS:43:ALA:N	2.30	0.46
1:pq:63:VAL:HG12	1:pq:99:LEU:HD13	1.97	0.46
2:pJ:23:ALA:C	2:pJ:24:LEU:HD22	2.41	0.46
2:pN:166:PRO:HG3	2:pN:259:ILE:HG23	1.98	0.46
1:pS:98:LEU:HD12	2:qa:63:ARG:O	2.15	0.46
1:pT:67:CYS:HA	1:pT:72:CYS:HA	1.98	0.46
2:pW:67:ASP:HB2	2:qb:4:ILE:HD11	1.97	0.46
2:pW:141:HIS:CD2	2:pW:150:THR:HG1	2.31	0.46
3:qf:70:GLN:NE2	3:qf:72:VAL:HG22	2.31	0.46
4:qj:64:LYS:HZ1	4:qk:53:GLN:HG2	1.79	0.46
4:qk:211:ASP:N	4:qk:231:SER:O	2.45	0.46
4:qn:179:THR:CG2	4:qo:247:GLY:HA3	2.46	0.46
5:qp:392:LEU:HD12	5:qr:400:TYR:HE1	1.57	0.46
5:qr:144:GLN:O	5:qr:144:GLN:CD	2.58	0.46
5:qr:207:ARG:NE	5:qt:69:GLU:OE2	2.43	0.46
6:qE:112:LEU:HD23	6:qG:58:LEU:CB	2.43	0.46
5:qH:96:ARG:CD	5:qJ:114:LEU:CD2	2.81	0.46
2:ai:86:VAL:O	2:ai:202:GLN:N	2.46	0.46
2:ai:281:GLN:OE1	2:ai:281:GLN:N	2.44	0.46
2:aj:65:ILE:HG22	2:aj:66:LYS:N	2.30	0.46
2:ax:30:THR:CG2	2:ax:298:LEU:HD13	2.46	0.46
1:aE:98:LEU:HD12	2:aM:63:ARG:O	2.15	0.46
2:aI:282:ARG:HH11	2:iX:282:ARG:NH2	1.93	0.46
2:aJ:23:ALA:C	2:aJ:24:LEU:HD22	2.41	0.46
2:aM:274:ALA:CB	2:aM:297:VAL:HG21	2.46	0.46
2:aV:6:PRO:HA	2:aV:9:ILE:HG22	1.96	0.46
2:bb:166:PRO:HG3	2:bb:259:ILE:HG23	1.98	0.46
2:bj:43:ALA:HB2	2:bj:209:TYR:OH	2.15	0.46
2:bj:230:SER:O	2:bj:231:THR:HG22	2.14	0.46
2:bk:42:THR:HG22	2:bk:43:ALA:N	2.30	0.46
2:bx:237:VAL:O	2:bx:237:VAL:HG12	2.14	0.46
2:bB:174:ASP:OD1	2:bB:214:ARG:NH2	2.49	0.46
2:bD:55:LYS:HG3	2:bD:253:GLY:O	2.15	0.46
1:bG:100:LYS:N	1:gL:102:GLU:OE2	2.49	0.46
1:bI:102:GLU:CD	2:hF:62:GLN:OE1	2.53	0.46
1:bV:98:LEU:HD12	2:cd:63:ARG:O	2.15	0.46
2:bY:182:LEU:HG	2:bY:182:LEU:O	2.16	0.46
2:ca:53:PHE:O	2:ca:255:ARG:NH2	2.43	0.46
2:ce:166:PRO:HG3	2:ce:259:ILE:HG23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cm:61:GLY:CA	1:pq:103:ARG:HD2	2.40	0.46
2:cm:182:LEU:HG	2:cm:182:LEU:O	2.16	0.46
2:cs:14:THR:CG2	2:iv:12:LEU:HD21	2.46	0.46
1:cL:98:LEU:HD12	2:cT:63:ARG:O	2.15	0.46
2:cP:42:THR:HG22	2:cP:43:ALA:N	2.30	0.46
2:dq:21:GLN:OE1	2:dq:21:GLN:HA	2.16	0.46
2:dw:166:PRO:HG3	2:dw:259:ILE:HG23	1.98	0.46
1:dB:63:VAL:HG12	1:dB:99:LEU:HD13	1.97	0.46
2:dJ:171:TYR:CZ	2:dJ:175:THR:HG21	2.50	0.46
2:dJ:274:ALA:CB	2:dJ:297:VAL:HG21	2.46	0.46
2:dK:30:THR:CG2	2:dK:298:LEU:HD13	2.45	0.46
1:dR:67:CYS:HA	1:dR:72:CYS:HA	1.98	0.46
2:dS:21:GLN:OE1	2:dS:21:GLN:HA	2.16	0.46
2:eg:21:GLN:OE1	2:eg:21:GLN:HA	2.16	0.46
2:eh:12:LEU:HD21	2:eA:14:THR:CG2	2.46	0.46
2:em:55:LYS:HG3	2:em:253:GLY:O	2.15	0.46
1:ep:99:LEU:CA	1:nI:102:GLU:CD	2.87	0.46
2:eu:30:THR:HG23	2:eu:298:LEU:HD13	1.98	0.46
2:ev:42:THR:HG22	2:ev:43:ALA:N	2.30	0.46
2:ex:208:GLU:OE1	2:ex:210:ARG:NE	2.49	0.46
2:eK:117:LEU:HD21	2:eK:211:TYR:CA	2.46	0.46
2:eM:4:ILE:H	2:fo:69:ALA:HB2	1.81	0.46
2:eM:85:GLY:O	2:fm:2:ALA:N	2.48	0.46
1:ff:102:GLU:OE2	1:ib:100:LYS:N	2.49	0.46
2:fk:62:GLN:OE1	1:nw:102:GLU:HG2	2.02	0.46
2:fm:264:LEU:HB2	2:fm:295:VAL:HG11	1.98	0.46
2:fn:65:ILE:HG22	2:fn:66:LYS:N	2.30	0.46
2:fz:67:ASP:HB2	2:fE:4:ILE:HD11	1.97	0.46
2:fz:193:THR:HG21	2:mh:193:THR:CG2	2.45	0.46
1:fH:100:LYS:N	1:gZ:102:GLU:OE2	2.49	0.46
2:fM:21:GLN:HA	2:fM:21:GLN:OE1	2.16	0.46
2:fN:67:ASP:HB2	2:fS:4:ILE:HD11	1.97	0.46
2:fO:23:ALA:C	2:fO:24:LEU:HD22	2.41	0.46
2:fS:100:GLY:N	2:fS:101:PRO:CD	2.78	0.46
2:fS:166:PRO:HG3	2:fS:259:ILE:HG23	1.98	0.46
2:ga:21:GLN:OE1	2:ga:21:GLN:HA	2.16	0.46
2:ge:174:ASP:OD1	2:ge:214:ARG:NH2	2.49	0.46
2:gp:75:ILE:HG22	2:gp:76:THR:N	2.30	0.46
2:gq:61:GLY:CA	1:hO:103:ARG:NH1	2.70	0.46
2:gs:30:THR:CG2	2:gs:298:LEU:HD13	2.46	0.46
2:gs:174:ASP:OD1	2:gs:214:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gt:274:ALA:CB	2:gt:297:VAL:HG21	2.46	0.46
2:gC:237:VAL:O	2:gC:237:VAL:HG12	2.14	0.46
2:gE:198:GLU:N	2:gE:198:GLU:OE1	2.48	0.46
2:gG:60:ILE:HG23	2:gG:60:ILE:O	2.14	0.46
2:gG:243:TYR:O	2:gG:247:ARG:HG2	2.15	0.46
2:he:182:LEU:HG	2:he:182:LEU:O	2.16	0.46
2:hf:24:LEU:HD21	2:kC:257:LEU:HD22	1.97	0.46
2:hg:264:LEU:HB2	2:hg:295:VAL:HG11	1.97	0.46
2:hi:243:TYR:O	2:hi:247:ARG:HG2	2.15	0.46
1:hn:103:ARG:O	2:kS:62:GLN:CB	2.62	0.46
1:hr:67:CYS:HA	1:hr:72:CYS:HA	1.98	0.46
2:hv:30:THR:CG2	2:hv:298:LEU:HD13	2.46	0.46
2:hx:228:ALA:HB1	2:hx:283:LEU:HG	1.97	0.46
1:hA:100:LYS:N	1:kw:102:GLU:OE2	2.49	0.46
2:hI:30:THR:CG2	2:hI:298:LEU:HD13	2.46	0.46
2:hI:174:ASP:OD1	2:hI:214:ARG:NH2	2.49	0.46
2:hK:228:ALA:HB1	2:hK:283:LEU:HG	1.97	0.46
2:ij:95:ASN:C	2:ij:96:LEU:HD22	2.40	0.46
2:im:228:ALA:HB1	2:im:283:LEU:HG	1.97	0.46
1:ip:102:GLU:CD	1:lm:99:LEU:CA	2.87	0.46
2:iy:60:ILE:CG2	2:iy:60:ILE:O	2.63	0.46
2:iI:182:LEU:HG	2:iI:182:LEU:O	2.16	0.46
2:jl:197:LYS:NZ	1:lo:98:LEU:O	2.47	0.46
2:jn:83:THR:HA	2:jn:205:MET:HG2	1.97	0.46
2:jn:95:ASN:C	2:jn:96:LEU:HD22	2.40	0.46
2:jQ:100:GLY:N	2:jQ:101:PRO:CD	2.78	0.46
1:jt:102:GLU:OE2	1:jV:100:LYS:N	2.49	0.46
1:jw:100:LYS:CE	1:lz:100:LYS:CB	2.92	0.46
2:jz:280:VAL:O	2:jz:289:ASN:ND2	2.41	0.46
2:jA:23:ALA:C	2:jA:24:LEU:HD22	2.41	0.46
2:jO:61:GLY:CA	1:pD:103:ARG:NH1	2.70	0.46
2:jO:198:GLU:OE1	2:jO:198:GLU:N	2.48	0.46
1:jZ:67:CYS:HA	1:jZ:72:CYS:HA	1.98	0.46
2:ka:43:ALA:HB2	2:ka:209:TYR:OH	2.15	0.46
2:ke:278:VAL:HG21	2:ke:295:VAL:O	2.15	0.46
1:kn:67:CYS:HA	1:kn:72:CYS:HA	1.98	0.46
2:ko:230:SER:O	2:ko:231:THR:HG22	2.14	0.46
2:kp:117:LEU:HD21	2:kp:211:TYR:CA	2.46	0.46
1:kw:100:LYS:N	1:lO:102:GLU:OE2	2.49	0.46
2:kD:198:GLU:OE1	2:kD:198:GLU:N	2.48	0.46
2:kV:30:THR:CG2	2:kV:298:LEU:HD13	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kV:185:GLN:O	2:kV:205:MET:N	2.43	0.46
1:lc:67:CYS:HA	1:lc:72:CYS:HA	1.97	0.46
2:ld:21:GLN:HA	2:ld:21:GLN:OE1	2.16	0.46
2:lt:23:ALA:C	2:lt:24:LEU:HD22	2.41	0.46
2:lw:280:VAL:O	2:lw:289:ASN:ND2	2.44	0.46
2:lF:46:THR:HG22	2:lF:74:GLN:HG2	1.96	0.46
2:lJ:174:ASP:OD1	2:lJ:214:ARG:NH2	2.49	0.46
2:lJ:278:VAL:HG21	2:lJ:295:VAL:O	2.15	0.46
2:IV:23:ALA:C	2:IV:24:LEU:HD22	2.41	0.46
1:mc:99:LEU:CA	1:nu:102:GLU:CD	2.87	0.46
1:me:63:VAL:HG12	1:me:99:LEU:HD13	1.97	0.46
1:me:99:LEU:HD23	1:mg:60:ARG:CZ	2.46	0.46
2:mw:67:ASP:HB2	2:mB:4:ILE:HD11	1.97	0.46
2:mw:197:LYS:NZ	1:oa:98:LEU:O	2.47	0.46
2:mK:63:ARG:NE	2:oq:205:MET:CE	2.74	0.46
2:mM:65:ILE:HG22	2:mM:66:LYS:N	2.30	0.46
2:mM:95:ASN:C	2:mM:96:LEU:HD22	2.40	0.46
2:mM:267:PRO:HD2	2:mM:270:LEU:HD12	1.98	0.46
2:mN:30:THR:CG2	2:mN:298:LEU:HD13	2.46	0.46
2:nb:174:ASP:OD1	2:nb:214:ARG:NH2	2.49	0.46
2:nc:274:ALA:CB	2:nc:297:VAL:HG21	2.46	0.46
2:nd:242:VAL:O	2:nd:246:MET:HG3	2.15	0.46
2:nA:75:ILE:HG22	2:nA:76:THR:N	2.30	0.46
2:nD:278:VAL:HG21	2:nD:295:VAL:O	2.15	0.46
2:nN:6:PRO:HA	2:nN:9:ILE:HG22	1.96	0.46
2:nO:75:ILE:HG22	2:nO:76:THR:N	2.30	0.46
2:nQ:95:ASN:C	2:nQ:96:LEU:HD22	2.40	0.46
2:nR:174:ASP:OD1	2:nR:214:ARG:NH2	2.49	0.46
1:nY:63:VAL:HG12	1:nY:99:LEU:HD13	1.97	0.46
2:or:264:LEU:HB2	2:or:295:VAL:HG11	1.97	0.46
2:os:83:THR:HA	2:os:205:MET:HG2	1.97	0.46
2:ot:174:ASP:OD1	2:ot:214:ARG:NH2	2.49	0.46
1:ow:59:VAL:HG12	1:ow:61:ALA:N	2.29	0.46
1:oc:67:CYS:HA	1:oc:72:CYS:HA	1.98	0.46
2:og:267:PRO:HD2	2:og:270:LEU:HD12	1.98	0.46
2:oS:75:ILE:HG22	2:oS:76:THR:N	2.30	0.46
2:OT:23:ALA:C	2:OT:24:LEU:HD22	2.41	0.46
2:ou:65:ILE:HG22	2:ou:66:LYS:N	2.30	0.46
2:ov:174:ASP:OD1	2:ov:214:ARG:NH2	2.49	0.46
2:ox:30:THR:CG2	2:ox:298:LEU:HD13	2.46	0.46
2:pf:21:GLN:OE1	2:pf:21:GLN:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pl:144:TYR:HH	2:pl:254:GLY:H	1.62	0.46
2:pH:43:ALA:HB2	2:pH:209:TYR:OH	2.15	0.46
2:pX:264:LEU:HB2	2:pX:295:VAL:HG11	1.97	0.46
2:pZ:278:VAL:HG21	2:pZ:295:VAL:O	2.15	0.46
3:qe:64:GLY:CA	4:qm:10:GLN:HE22	2.29	0.46
3:qf:78:VAL:HB	3:qf:141:LEU:HD22	1.97	0.46
3:qh:70:GLN:NE2	3:qh:72:VAL:HG22	2.31	0.46
4:qo:83:THR:HG21	4:qo:228:MET:HE1	1.96	0.46
5:qp:109:LEU:O	5:qp:113:LEU:HD13	2.16	0.46
6:qq:133:ASP:OD1	6:qq:134:TRP:N	2.45	0.46
6:qC:133:ASP:OD1	6:qC:134:TRP:N	2.45	0.46
5:qJ:109:LEU:O	5:qJ:113:LEU:HD13	2.16	0.46
2:ah:67:ASP:HB2	2:am:4:ILE:HD11	1.97	0.46
2:aj:208:GLU:OE1	2:aj:210:ARG:NE	2.49	0.46
2:aj:267:PRO:HD2	2:aj:270:LEU:HD12	1.98	0.46
2:ak:30:THR:CG2	2:ak:298:LEU:HD13	2.46	0.46
2:ax:174:ASP:OD1	2:ax:214:ARG:NH2	2.49	0.46
1:aD:103:ARG:NH1	2:iY:61:GLY:CA	2.70	0.46
2:aI:67:ASP:HB2	2:aN:4:ILE:HD11	1.97	0.46
2:aL:30:THR:CG2	2:aL:298:LEU:HD13	2.46	0.46
2:aL:243:TYR:O	2:aL:247:ARG:HG2	2.15	0.46
2:aN:30:THR:CG2	2:aN:298:LEU:HD13	2.46	0.46
1:be:100:LYS:N	1:iR:102:GLU:OE2	2.49	0.46
2:bk:12:LEU:HD21	2:dw:14:THR:CG2	2.46	0.46
2:bm:83:THR:HG22	2:bm:84:VAL:N	2.30	0.46
2:bn:174:ASP:OD1	2:bn:214:ARG:NH2	2.49	0.46
2:bo:89:THR:N	2:bo:200:ASP:OD2	2.36	0.46
2:by:12:LEU:HD21	2:hY:14:THR:CG2	2.46	0.46
2:bz:198:GLU:N	2:bz:198:GLU:OE1	2.48	0.46
1:bK:62:THR:HG22	1:bK:63:VAL:N	2.31	0.46
1:bK:100:LYS:HZ1	1:hL:100:LYS:HD3	1.78	0.46
2:bL:182:LEU:HG	2:bL:182:LEU:O	2.16	0.46
2:bN:83:THR:HG22	2:bN:84:VAL:N	2.30	0.46
2:bO:69:ALA:HB2	2:gU:4:ILE:H	1.81	0.46
1:bT:102:GLU:CD	1:eR:99:LEU:CA	2.87	0.46
1:bV:97:PRO:HD2	2:cd:65:ILE:O	2.16	0.46
2:cd:230:SER:HB2	2:cd:234:LEU:HD23	1.96	0.46
1:cj:98:LEU:HD12	2:cr:63:ARG:O	2.15	0.46
2:cn:57:ARG:NH2	2:cn:58:GLU:O	2.48	0.46
2:cn:67:ASP:HB2	2:cs:4:ILE:HD11	1.97	0.46
2:cA:21:GLN:HA	2:cA:21:GLN:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cQ:23:ALA:C	2:cQ:24:LEU:HD22	2.41	0.46
2:cR:95:ASN:C	2:cR:96:LEU:HD22	2.40	0.46
2:cR:208:GLU:OE1	2:cR:210:ARG:NE	2.49	0.46
2:cU:30:THR:CG2	2:cU:298:LEU:HD13	2.46	0.46
2:de:23:ALA:C	2:de:24:LEU:HD22	2.41	0.46
2:dg:30:THR:CG2	2:dg:298:LEU:HD13	2.46	0.46
1:dn:99:LEU:HD23	1:dp:60:ARG:CZ	2.46	0.46
2:dq:182:LEU:HG	2:dq:182:LEU:O	2.16	0.46
1:dA:63:VAL:HG23	1:dA:99:LEU:CD1	2.42	0.46
2:dU:23:ALA:C	2:dU:24:LEU:HD22	2.41	0.46
2:dW:69:ALA:HB2	2:pL:4:ILE:H	1.81	0.46
1:dZ:100:LYS:CE	1:nM:100:LYS:NZ	2.79	0.46
2:eu:182:LEU:HG	2:eu:182:LEU:O	2.16	0.46
2:ex:267:PRO:HD2	2:ex:270:LEU:HD12	1.98	0.46
2:eA:242:VAL:O	2:eA:246:MET:HG3	2.15	0.46
2:eL:267:PRO:HD2	2:eL:270:LEU:HD12	1.98	0.46
2:fc:228:ALA:HB1	2:fc:283:LEU:HG	1.97	0.46
1:fh:99:LEU:HD23	1:fj:60:ARG:CZ	2.46	0.46
2:fq:242:VAL:O	2:fq:246:MET:HG3	2.15	0.46
1:ft:99:LEU:HD21	1:nW:60:ARG:HH21	0.59	0.46
1:fu:103:ARG:NH1	2:mj:61:GLY:CA	2.70	0.46
2:fy:43:ALA:HB2	2:fy:209:TYR:OH	2.15	0.46
2:fC:30:THR:CG2	2:fC:298:LEU:HD13	2.46	0.46
2:fE:30:THR:CG2	2:fE:298:LEU:HD13	2.45	0.46
1:fJ:63:VAL:HG12	1:fJ:99:LEU:HD13	1.97	0.46
1:fK:67:CYS:HA	1:fK:72:CYS:HA	1.98	0.46
2:fS:14:THR:CG2	2:lU:12:LEU:HD21	2.46	0.46
2:ge:278:VAL:HG21	2:ge:295:VAL:O	2.15	0.46
1:gj:102:GLU:OE2	1:gL:100:LYS:N	2.49	0.46
2:gr:83:THR:HA	2:gr:205:MET:HG2	1.97	0.46
2:gD:75:ILE:HG22	2:gD:76:THR:N	2.30	0.46
2:gF:95:ASN:C	2:gF:96:LEU:HD22	2.40	0.46
2:gF:208:GLU:OE1	2:gF:210:ARG:NE	2.49	0.46
1:gP:67:CYS:HA	1:gP:72:CYS:HA	1.97	0.46
2:gR:12:LEU:HD21	2:lZ:14:THR:CG2	2.46	0.46
2:hj:203:VAL:HG12	2:hj:205:MET:HG3	1.96	0.46
1:hp:97:PRO:HD2	2:hw:65:ILE:O	2.16	0.46
2:hF:182:LEU:O	2:hF:182:LEU:HG	2.16	0.46
2:hG:2:ALA:N	2:kF:85:GLY:O	2.48	0.46
2:hK:242:VAL:O	2:hK:246:MET:HG3	2.15	0.46
2:ij:267:PRO:HD2	2:ij:270:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ik:174:ASP:OD1	2:ik:214:ARG:NH2	2.49	0.46
1:iq:63:VAL:HG23	1:iq:99:LEU:CD1	2.42	0.46
2:iA:14:THR:CG2	2:jN:12:LEU:HD21	2.46	0.46
2:iI:6:PRO:HA	2:iI:9:ILE:HG22	1.96	0.46
2:iZ:208:GLU:OE1	2:iZ:210:ARG:NE	2.49	0.46
2:ja:69:ALA:HB2	2:kr:4:ILE:H	1.81	0.46
2:jc:30:THR:CG2	2:jc:298:LEU:HD13	2.45	0.46
2:jc:55:LYS:HG3	2:jc:253:GLY:O	2.15	0.46
2:jl:57:ARG:NH2	2:jl:58:GLU:O	2.48	0.46
2:jn:83:THR:HG22	2:jn:84:VAL:N	2.29	0.46
2:jQ:30:THR:CG2	2:jQ:298:LEU:HD13	2.46	0.46
2:jE:30:THR:CG2	2:jE:298:LEU:HD13	2.46	0.46
1:jF:100:LYS:CE	1:pU:100:LYS:NZ	2.79	0.46
2:jM:226:LEU:HD23	2:jM:273:LYS:HE3	1.98	0.46
2:jN:63:ARG:HE	2:pI:205:MET:HE2	1.72	0.46
2:jO:23:ALA:C	2:jO:24:LEU:HD22	2.41	0.46
2:jP:65:ILE:HG22	2:jP:66:LYS:N	2.30	0.46
2:jS:185:GLN:O	2:jS:205:MET:N	2.43	0.46
1:jX:98:LEU:HD12	2:kf:63:ARG:O	2.15	0.46
2:kc:38:ILE:O	2:kc:38:ILE:HG13	2.15	0.46
2:ke:4:ILE:H	2:nb:69:ALA:HB2	1.81	0.46
2:ke:30:THR:CG2	2:ke:298:LEU:HD13	2.46	0.46
2:kg:30:THR:CG2	2:kg:298:LEU:HD13	2.45	0.46
1:kl:99:LEU:HD23	1:kn:60:ARG:CZ	2.46	0.46
2:kE:208:GLU:OE1	2:kE:210:ARG:NE	2.49	0.46
2:kP:6:PRO:HA	2:kP:9:ILE:HG22	1.96	0.46
2:kP:21:GLN:HA	2:kP:21:GLN:OE1	2.16	0.46
2:kQ:12:LEU:HD21	2:nd:14:THR:CG2	2.46	0.46
2:kQ:193:THR:HG21	2:mX:193:THR:CG2	2.45	0.46
1:la:102:GLU:HG2	2:mJ:62:GLN:OE1	2.02	0.46
2:ld:30:THR:HG23	2:ld:298:LEU:HD13	1.98	0.46
2:lh:60:ILE:CG2	2:lh:60:ILE:O	2.64	0.46
2:lj:30:THR:CG2	2:lj:298:LEU:HD13	2.45	0.46
1:lm:102:GLU:OE2	1:pQ:100:LYS:N	2.49	0.46
1:lo:99:LEU:HD23	1:lq:60:ARG:CZ	2.46	0.46
2:lv:60:ILE:HG23	2:lv:60:ILE:O	2.14	0.46
1:ID:67:CYS:HA	1:ID:72:CYS:HA	1.98	0.46
2:IF:237:VAL:O	2:IF:237:VAL:HG12	2.14	0.46
2:IW:95:ASN:C	2:IW:96:LEU:HD22	2.40	0.46
2:IX:30:THR:CG2	2:IX:298:LEU:HD13	2.46	0.46
2:ml:69:ALA:HB2	2:nD:4:ILE:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mn:55:LYS:HG3	2:mn:253:GLY:O	2.15	0.46
1:mt:67:CYS:HA	1:mt:72:CYS:HA	1.98	0.46
2:mv:62:GLN:OE1	1:oA:102:GLU:HG2	2.02	0.46
2:mx:23:ALA:C	2:mx:24:LEU:HD22	2.41	0.46
2:my:95:ASN:C	2:my:96:LEU:HD22	2.40	0.46
2:mz:174:ASP:OD1	2:mz:214:ARG:NH2	2.49	0.46
2:mN:60:ILE:CG2	2:mN:60:ILE:O	2.64	0.46
2:mO:171:TYR:CZ	2:mO:175:THR:HG21	2.50	0.46
2:mP:100:GLY:N	2:mP:101:PRO:CD	2.78	0.46
1:mU:97:PRO:HD2	2:nc:65:ILE:O	2.16	0.46
2:nn:23:ALA:C	2:nn:24:LEU:HD22	2.41	0.46
2:nn:53:PHE:O	2:nn:255:ARG:NH2	2.43	0.46
2:no:208:GLU:OE1	2:no:210:ARG:NE	2.49	0.46
2:np:30:THR:CG2	2:np:298:LEU:HD13	2.46	0.46
1:nw:63:VAL:HG12	1:nw:99:LEU:HD13	1.97	0.46
2:nz:182:LEU:HG	2:nz:182:LEU:O	2.16	0.46
1:nY:97:PRO:HD2	2:og:65:ILE:O	2.16	0.46
1:oa:62:THR:HG22	1:oa:63:VAL:N	2.31	0.46
2:oq:75:ILE:HG22	2:oq:76:THR:N	2.30	0.46
2:os:83:THR:HG22	2:os:84:VAL:N	2.29	0.46
2:ot:4:ILE:H	2:oV:69:ALA:HB2	1.81	0.46
2:ov:166:PRO:HG3	2:ov:259:ILE:HG23	1.98	0.46
2:oR:182:LEU:HG	2:oR:182:LEU:O	2.16	0.46
2:oV:60:ILE:HG23	2:oV:60:ILE:O	2.14	0.46
1:pc:98:LEU:HD12	2:pk:63:ARG:O	2.15	0.46
2:pf:237:VAL:O	2:pf:237:VAL:HG12	2.14	0.46
2:pi:208:GLU:OE1	2:pi:210:ARG:NE	2.49	0.46
2:pj:30:THR:CG2	2:pj:298:LEU:HD13	2.46	0.46
2:pl:55:LYS:HG3	2:pl:253:GLY:O	2.15	0.46
1:pA:100:LYS:CE	1:pG:100:LYS:NZ	2.79	0.46
1:pG:62:THR:HG22	1:pG:63:VAL:N	2.31	0.46
2:pI:75:ILE:HG22	2:pI:76:THR:N	2.30	0.46
2:pV:182:LEU:HG	2:pV:182:LEU:O	2.16	0.46
2:pZ:60:ILE:HG23	2:pZ:60:ILE:O	2.15	0.46
2:pZ:174:ASP:OD1	2:pZ:214:ARG:NH2	2.49	0.46
2:qb:55:LYS:HG3	2:qb:253:GLY:O	2.15	0.46
3:qe:118:VAL:HG22	3:qe:118:VAL:O	2.16	0.46
3:qi:66:GLN:C	4:qo:194:LEU:HD11	2.41	0.46
5:qp:218:TYR:OH	6:qu:133:ASP:OD2	2.28	0.46
5:qv:236:LEU:HD21	5:qx:266:ILE:CD1	2.46	0.46
5:qx:109:LEU:O	5:qx:113:LEU:HD13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qz:109:LEU:O	5:qz:113:LEU:HD13	2.16	0.46
2:ag:21:GLN:OE1	2:ag:21:GLN:HA	2.16	0.46
2:ah:63:ARG:HE	2:oc:205:MET:HE2	1.72	0.46
2:ah:257:LEU:HD22	2:oc:24:LEU:HD21	1.96	0.46
2:ai:264:LEU:HB2	2:ai:295:VAL:HG11	1.97	0.46
1:ap:100:LYS:N	1:hN:102:GLU:OE2	2.49	0.46
1:ar:97:PRO:HD2	2:ay:65:ILE:O	2.16	0.46
2:az:183:ILE:HD13	5:qH:178:PRO:CG	2.45	0.46
1:aC:100:LYS:N	1:kK:102:GLU:OE2	2.49	0.46
2:aH:237:VAL:O	2:aH:237:VAL:HG12	2.14	0.46
1:aS:63:VAL:HG12	1:aS:99:LEU:HD13	1.97	0.46
2:bm:4:ILE:CG2	1:dn:91:GLU:HB2	2.46	0.46
2:bm:208:GLU:OE1	2:bm:210:ARG:NE	2.49	0.46
2:bn:4:ILE:H	2:kr:69:ALA:HB2	1.81	0.46
2:bp:166:PRO:HG3	2:bp:259:ILE:HG23	1.98	0.46
1:bu:63:VAL:HG12	1:bu:99:LEU:HD13	1.97	0.46
1:bu:97:PRO:HD2	2:bC:65:ILE:O	2.16	0.46
1:bw:100:LYS:NZ	1:dj:100:LYS:CE	2.79	0.46
1:bE:100:LYS:HD3	1:hR:100:LYS:HZ3	1.78	0.46
1:bK:67:CYS:HA	1:bK:72:CYS:HA	1.98	0.46
1:bW:100:LYS:CE	1:hM:100:LYS:CB	2.92	0.46
2:bZ:282:ARG:HH11	2:iJ:282:ARG:NH2	1.93	0.46
2:cc:174:ASP:OD1	2:cc:214:ARG:NH2	2.49	0.46
2:cp:267:PRO:HD2	2:cp:270:LEU:HD12	1.98	0.46
2:cs:30:THR:CG2	2:cs:298:LEU:HD13	2.46	0.46
2:cs:166:PRO:HG3	2:cs:259:ILE:HG23	1.98	0.46
1:cx:97:PRO:HD2	2:cF:65:ILE:O	2.16	0.46
2:cA:182:LEU:HG	2:cA:182:LEU:O	2.16	0.46
2:cP:12:LEU:HD21	2:fc:14:THR:CG2	2.46	0.46
2:cR:83:THR:HA	2:cR:205:MET:HG2	1.97	0.46
1:cZ:98:LEU:O	2:eJ:197:LYS:NZ	2.47	0.46
1:db:62:THR:HG22	1:db:63:VAL:N	2.31	0.46
2:dg:4:ILE:H	2:dI:69:ALA:HB2	1.81	0.46
1:dB:97:PRO:HD2	2:dJ:65:ILE:O	2.16	0.46
2:dK:166:PRO:HG3	2:dK:259:ILE:HG23	1.98	0.46
1:dN:100:LYS:N	1:pC:102:GLU:OE2	2.49	0.46
1:dR:100:LYS:NZ	1:oY:100:LYS:CE	2.79	0.46
2:dT:12:LEU:HD21	2:nT:14:THR:CG2	2.46	0.46
1:eb:102:GLU:OE2	1:nW:100:LYS:N	2.49	0.46
1:ed:91:GLU:HB2	2:nC:4:ILE:CG2	2.46	0.46
1:ed:98:LEU:HD12	2:el:63:ARG:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eh:57:ARG:NH2	2:eh:58:GLU:O	2.48	0.46
2:ek:4:ILE:H	2:of:69:ALA:HB2	1.81	0.46
2:el:171:TYR:OH	2:el:175:THR:OG1	2.12	0.46
1:er:63:VAL:HG12	1:er:99:LEU:HD13	1.97	0.46
2:eA:30:THR:CG2	2:eA:298:LEU:HD13	2.45	0.46
2:eA:100:GLY:N	2:eA:101:PRO:CD	2.78	0.46
1:eD:100:LYS:N	1:ib:102:GLU:OE2	2.49	0.46
1:eF:99:LEU:HD23	1:eH:60:ARG:CZ	2.46	0.46
1:eH:62:THR:HG22	1:eH:63:VAL:N	2.31	0.46
2:eM:60:ILE:HG23	2:eM:60:ILE:O	2.15	0.46
2:eM:60:ILE:CG2	2:eM:60:ILE:O	2.64	0.46
2:eO:30:THR:CG2	2:eO:298:LEU:HD13	2.46	0.46
2:fc:144:TYR:HH	2:fc:254:GLY:H	1.63	0.46
2:fl:197:LYS:NZ	1:nw:98:LEU:O	2.47	0.46
2:fp:274:ALA:CB	2:fp:297:VAL:HG21	2.46	0.46
2:fq:14:THR:CG2	2:gD:12:LEU:HD21	2.46	0.46
1:fr:100:LYS:CE	1:ny:100:LYS:NZ	2.79	0.46
1:fv:98:LEU:O	2:nm:197:LYS:NZ	2.47	0.46
2:fE:14:THR:CG2	2:nm:12:LEU:HD21	2.46	0.46
1:fF:100:LYS:CE	1:mg:100:LYS:NZ	2.79	0.46
2:fN:197:LYS:NZ	1:fx:98:LEU:O	2.47	0.46
2:fS:209:TYR:OH	2:ga:93:ASP:OD2	2.22	0.46
1:fx:99:LEU:HD23	1:fZ:60:ARG:CZ	2.46	0.46
2:ga:30:THR:HG23	2:ga:298:LEU:HD13	1.98	0.46
2:go:30:THR:HG23	2:go:298:LEU:HD13	1.98	0.46
2:gE:38:ILE:O	2:gE:38:ILE:HG13	2.15	0.46
1:gP:62:THR:HG22	1:gP:63:VAL:N	2.31	0.46
2:gQ:182:LEU:HG	2:gQ:182:LEU:O	2.16	0.46
2:gR:67:ASP:HB2	2:gW:4:ILE:HD11	1.97	0.46
2:gS:53:PHE:O	2:gS:255:ARG:NH2	2.43	0.46
1:hb:63:VAL:HG12	1:hb:99:LEU:HD13	1.97	0.46
2:hg:2:ALA:N	2:mz:85:GLY:O	2.49	0.46
2:hu:208:GLU:OE1	2:hu:210:ARG:NE	2.49	0.46
1:hC:98:LEU:HD12	2:hJ:63:ARG:O	2.15	0.46
2:hH:208:GLU:OE1	2:hH:210:ARG:NE	2.49	0.46
1:id:63:VAL:HG12	1:id:99:LEU:HD13	1.97	0.46
1:id:98:LEU:HD12	2:il:63:ARG:O	2.16	0.46
2:ih:141:HIS:CD2	2:ih:150:THR:HG1	2.30	0.46
2:ii:38:ILE:HG13	2:ii:38:ILE:O	2.15	0.46
1:it:67:CYS:HA	1:it:72:CYS:HA	1.98	0.46
2:iv:141:HIS:CD2	2:iv:150:THR:HG1	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iw:86:VAL:O	2:iw:202:GLN:N	2.46	0.46
2:iy:174:ASP:OD1	2:iy:214:ARG:NH2	2.49	0.46
1:iD:102:GLU:OE2	1:po:100:LYS:N	2.49	0.46
1:iV:67:CYS:HA	1:iV:72:CYS:HA	1.98	0.46
2:iW:182:LEU:HG	2:iW:182:LEU:O	2.16	0.46
2:iY:86:VAL:O	2:iY:202:GLN:N	2.46	0.46
1:jh:98:LEU:HD12	2:jp:63:ARG:O	2.15	0.46
2:jl:24:LEU:HD21	2:ls:257:LEU:HD22	1.96	0.46
2:jy:30:THR:HG23	2:jy:298:LEU:HD13	1.98	0.46
2:jC:4:ILE:H	2:ke:69:ALA:HB2	1.81	0.46
2:jC:174:ASP:OD1	2:jC:214:ARG:NH2	2.49	0.46
1:jX:98:LEU:O	2:ls:197:LYS:NZ	2.47	0.46
2:kg:14:THR:CG2	2:ls:12:LEU:HD21	2.46	0.46
1:kl:97:PRO:HD2	2:ks:65:ILE:O	2.16	0.46
1:km:67:CYS:HA	1:km:72:CYS:HA	1.98	0.46
2:kt:30:THR:CG2	2:kt:298:LEU:HD13	2.46	0.46
2:kt:166:PRO:HG3	2:kt:259:ILE:HG23	1.98	0.46
1:kA:67:CYS:HA	1:kA:72:CYS:HA	1.97	0.46
2:kH:100:GLY:N	2:kH:101:PRO:CD	2.78	0.46
2:kH:238:ASN:O	2:kH:242:VAL:HG13	2.17	0.46
1:lb:96:ASP:HB2	2:lf:64:VAL:HG13	1.98	0.46
2:lf:117:LEU:HD21	2:lf:211:TYR:CA	2.45	0.46
2:lh:174:ASP:OD1	2:lh:214:ARG:NH2	2.49	0.46
1:lo:63:VAL:HG12	1:lo:99:LEU:HD13	1.97	0.46
1:lo:97:PRO:HD2	2:lw:65:ILE:O	2.16	0.46
2:ls:75:ILE:HG22	2:ls:76:THR:N	2.30	0.46
1:lC:97:PRO:HD2	2:lK:65:ILE:O	2.16	0.46
1:lQ:98:LEU:HD12	2:lY:63:ARG:O	2.15	0.46
1:lR:67:CYS:HA	1:lR:72:CYS:HA	1.98	0.46
2:lV:117:LEU:HD21	2:lV:211:TYR:CA	2.46	0.46
2:lW:208:GLU:OE1	2:lW:210:ARG:NE	2.49	0.46
2:mh:43:ALA:HB2	2:mh:209:TYR:OH	2.15	0.46
2:mh:237:VAL:O	2:mh:237:VAL:HG12	2.14	0.46
2:mj:86:VAL:O	2:mj:202:GLN:N	2.46	0.46
2:mj:117:LEU:HD21	2:mj:211:TYR:CA	2.45	0.46
2:mv:226:LEU:HD23	2:mv:273:LYS:HE3	1.98	0.46
2:my:208:GLU:OE1	2:my:210:ARG:NE	2.49	0.46
2:mz:30:THR:CG2	2:mz:298:LEU:HD13	2.46	0.46
2:mJ:21:GLN:OE1	2:mJ:21:GLN:HA	2.16	0.46
1:mU:98:LEU:HD12	2:nc:63:ARG:O	2.15	0.46
2:no:83:THR:HA	2:no:205:MET:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nD:174:ASP:OD1	2:nD:214:ARG:NH2	2.49	0.46
2:nF:228:ALA:HB1	2:nF:283:LEU:HG	1.97	0.46
2:nF:242:VAL:O	2:nF:246:MET:HG3	2.15	0.46
2:nO:12:LEU:HD21	2:oh:14:THR:CG2	2.46	0.46
2:od:38:ILE:O	2:od:38:ILE:HG13	2.15	0.46
2:oe:83:THR:HG22	2:oe:84:VAL:N	2.30	0.46
2:oh:228:ALA:HB1	2:oh:283:LEU:HG	1.97	0.46
1:om:97:PRO:HD2	2:ou:65:ILE:O	2.16	0.46
1:om:98:LEU:HD12	2:ou:63:ARG:O	2.15	0.46
1:oo:67:CYS:HA	1:oo:72:CYS:HA	1.98	0.46
1:oA:63:VAL:HG12	1:oA:99:LEU:HD13	1.97	0.46
2:oE:67:ASP:HB2	2:oJ:4:ILE:HD11	1.97	0.46
2:pl:30:THR:CG2	2:pl:298:LEU:HD13	2.46	0.46
1:pq:97:PRO:HD2	2:py:65:ILE:O	2.16	0.46
1:pr:67:CYS:HA	1:pr:72:CYS:HA	1.98	0.46
2:pu:42:THR:HG22	2:pu:43:ALA:N	2.30	0.46
2:pv:38:ILE:O	2:pv:38:ILE:HG13	2.15	0.46
2:px:60:ILE:CG2	2:px:60:ILE:O	2.64	0.46
1:pE:97:PRO:HD2	2:pM:65:ILE:O	2.16	0.46
2:pH:21:GLN:HA	2:pH:21:GLN:OE1	2.16	0.46
2:pJ:38:ILE:O	2:pJ:38:ILE:HG13	2.15	0.46
2:pN:55:LYS:HG3	2:pN:253:GLY:O	2.15	0.46
3:qd:70:GLN:NE2	3:qd:72:VAL:HG22	2.31	0.46
3:qd:117:ASP:O	4:qo:6:TYR:CZ	2.69	0.46
3:qf:117:ASP:O	4:qm:6:TYR:OH	2.29	0.46
3:qh:66:GLN:CG	4:qj:194:LEU:H	2.17	0.46
4:qk:83:THR:HG21	4:qk:228:MET:CE	2.46	0.46
4:qk:179:THR:CG2	4:ql:247:GLY:HA3	2.46	0.46
4:ql:83:THR:HG21	4:ql:228:MET:CE	2.46	0.46
4:ql:179:THR:CG2	4:qm:247:GLY:HA3	2.46	0.46
6:qq:121:VAL:HG11	5:qL:248:LYS:HZ1	1.79	0.46
5:qH:109:LEU:O	5:qH:113:LEU:HD13	2.16	0.46
5:qL:385:PRO:HA	5:qL:388:VAL:HG22	1.98	0.46
1:ae:96:ASP:HB2	2:ai:64:VAL:HG13	1.98	0.45
2:ag:61:GLY:CA	1:oO:103:ARG:HD2	2.40	0.45
2:ai:23:ALA:C	2:ai:24:LEU:HD22	2.41	0.45
2:aj:4:ILE:CG2	1:oO:91:GLU:HB2	2.47	0.45
2:am:238:ASN:O	2:am:242:VAL:HG13	2.17	0.45
2:ax:69:ALA:HB2	2:hW:4:ILE:H	1.81	0.45
2:ay:274:ALA:CB	2:ay:297:VAL:HG21	2.46	0.45
1:aG:67:CYS:HA	1:aG:72:CYS:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aH:21:GLN:OE1	2:aH:21:GLN:HA	2.16	0.45
2:aH:226:LEU:HD23	2:aH:273:LYS:HE3	1.98	0.45
2:aI:12:LEU:HD21	2:jc:14:THR:CG2	2.46	0.45
2:aK:208:GLU:OE1	2:aK:210:ARG:NE	2.49	0.45
2:aM:197:LYS:HZ1	2:nb:62:GLN:HE21	1.62	0.45
1:aS:97:PRO:HD2	2:ba:65:ILE:O	2.16	0.45
1:aS:98:LEU:O	2:iJ:197:LYS:NZ	2.47	0.45
2:aV:226:LEU:HD23	2:aV:273:LYS:HE3	1.99	0.45
2:aW:57:ARG:NH2	2:aW:58:GLU:O	2.48	0.45
2:aW:197:LYS:NZ	1:bg:98:LEU:O	2.47	0.45
1:bg:99:LEU:HD23	1:bi:60:ARG:CZ	2.46	0.45
1:bi:67:CYS:HA	1:bi:72:CYS:HA	1.98	0.45
2:bj:182:LEU:HG	2:bj:182:LEU:O	2.16	0.45
2:bo:274:ALA:CB	2:bo:297:VAL:HG21	2.46	0.45
2:bx:43:ALA:HB2	2:bx:209:TYR:OH	2.15	0.45
1:bG:60:ARG:HH21	1:gj:99:LEU:HD21	0.59	0.45
1:bK:100:LYS:NZ	1:hL:100:LYS:CE	2.79	0.45
2:bM:23:ALA:C	2:bM:24:LEU:HD22	2.41	0.45
2:cb:208:GLU:OE1	2:cb:210:ARG:NE	2.49	0.45
1:cj:97:PRO:HD2	2:cr:65:ILE:O	2.16	0.45
1:cj:102:GLU:CD	2:iu:62:GLN:OE1	2.53	0.45
1:ck:67:CYS:HA	1:ck:72:CYS:HA	1.98	0.45
2:cm:6:PRO:HA	2:cm:9:ILE:HG22	1.96	0.45
2:co:117:LEU:HD21	2:co:211:TYR:CA	2.45	0.45
2:cp:208:GLU:OE1	2:cp:210:ARG:NE	2.49	0.45
2:cq:60:ILE:CG2	2:cq:60:ILE:O	2.64	0.45
2:cq:174:ASP:OD1	2:cq:214:ARG:NH2	2.49	0.45
1:cu:100:LYS:CB	1:nL:100:LYS:CE	2.92	0.45
2:cB:67:ASP:HB2	2:cG:4:ILE:HD11	1.97	0.45
2:cB:257:LEU:HD22	2:pg:24:LEU:HD21	1.96	0.45
2:cD:208:GLU:OE1	2:cD:210:ARG:NE	2.49	0.45
2:cE:30:THR:CG2	2:cE:298:LEU:HD13	2.46	0.45
1:cL:97:PRO:HD2	2:cT:65:ILE:O	2.16	0.45
1:cN:67:CYS:HA	1:cN:72:CYS:HA	1.98	0.45
2:cR:267:PRO:HD2	2:cR:270:LEU:HD12	1.98	0.45
2:cS:85:GLY:O	2:iK:2:ALA:N	2.48	0.45
1:cX:99:LEU:HD23	1:gx:102:GLU:HB3	1.96	0.45
1:cZ:97:PRO:HD2	2:dh:65:ILE:O	2.16	0.45
2:dr:57:ARG:NH2	2:dr:58:GLU:O	2.48	0.45
2:dr:67:ASP:HB2	2:dW:4:ILE:HD11	1.97	0.45
2:dW:242:VAL:O	2:dW:246:MET:HG3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dG:264:LEU:HB2	2:dG:295:VAL:HG11	1.97	0.45
2:dK:100:GLY:N	2:dK:101:PRO:CD	2.78	0.45
1:dP:97:PRO:HD2	2:dX:65:ILE:O	2.16	0.45
2:dW:60:ILE:CG2	2:dW:60:ILE:O	2.64	0.45
2:dY:166:PRO:HG3	2:dY:259:ILE:HG23	1.98	0.45
2:ej:208:GLU:OE1	2:ej:210:ARG:NE	2.49	0.45
2:ek:60:ILE:CG2	2:ek:60:ILE:O	2.64	0.45
1:en:100:LYS:CE	1:et:100:LYS:NZ	2.79	0.45
2:ev:193:THR:HG21	2:gC:193:THR:CG2	2.45	0.45
2:ex:4:ILE:CG2	1:gz:91:GLU:HB2	2.46	0.45
2:ey:30:THR:CG2	2:ey:298:LEU:HD13	2.46	0.45
2:ey:174:ASP:OD1	2:ey:214:ARG:NH2	2.49	0.45
2:eA:185:GLN:O	2:eA:205:MET:N	2.43	0.45
1:eD:99:LEU:HD21	1:ib:60:ARG:HH21	0.59	0.45
1:eT:99:LEU:HD23	1:eV:60:ARG:CZ	2.46	0.45
2:eW:9:ILE:HD12	2:eW:12:LEU:HG	1.99	0.45
2:fa:62:GLN:HE21	2:iN:197:LYS:HZ1	1.62	0.45
2:fl:12:LEU:HD21	2:nF:14:THR:CG2	2.46	0.45
1:fw:67:CYS:HA	1:fw:72:CYS:HA	1.98	0.45
2:fB:267:PRO:HD2	2:fB:270:LEU:HD12	1.98	0.45
2:fC:69:ALA:HB2	2:of:4:ILE:H	1.81	0.45
1:fK:96:ASP:HB2	2:fO:64:VAL:HG13	1.99	0.45
1:fL:62:THR:HG22	1:fL:63:VAL:N	2.31	0.45
1:fL:100:LYS:NZ	1:ma:100:LYS:CE	2.79	0.45
2:fN:75:ILE:HG22	2:fN:76:THR:N	2.30	0.45
2:ga:226:LEU:HD23	2:ga:273:LYS:HE3	1.99	0.45
2:gg:30:THR:CG2	2:gg:298:LEU:HD13	2.45	0.45
1:gl:91:GLU:HB2	2:hV:4:ILE:CG2	2.47	0.45
2:go:226:LEU:HD23	2:go:273:LYS:HE3	1.98	0.45
1:gP:100:LYS:NZ	1:in:100:LYS:CE	2.79	0.45
2:gU:60:ILE:CG2	2:gU:60:ILE:O	2.64	0.45
1:hd:100:LYS:NZ	1:lM:100:LYS:CE	2.79	0.45
2:he:21:GLN:HA	2:he:21:GLN:OE1	2.16	0.45
2:hi:30:THR:CG2	2:hi:298:LEU:HD13	2.46	0.45
1:hq:96:ASP:HB2	2:ht:64:VAL:HG13	1.99	0.45
1:hr:62:THR:HG22	1:hr:63:VAL:N	2.31	0.45
2:hs:21:GLN:OE1	2:hs:21:GLN:HA	2.16	0.45
2:hs:184:TYR:HE1	5:qB:178:PRO:N	2.14	0.45
2:hX:30:THR:CG2	2:hX:298:LEU:HD13	2.46	0.45
2:hX:166:PRO:HG3	2:hX:259:ILE:HG23	1.98	0.45
2:hX:242:VAL:O	2:hX:246:MET:HG3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hD:96:ASP:HB2	2:hG:64:VAL:HG13	1.98	0.45
1:hE:62:THR:HG22	1:hE:63:VAL:N	2.31	0.45
2:hF:21:GLN:OE1	2:hF:21:GLN:HA	2.16	0.45
2:hF:226:LEU:HD23	2:hF:273:LYS:HE3	1.98	0.45
2:hG:23:ALA:C	2:hG:24:LEU:HD22	2.41	0.45
2:hI:69:ALA:HB2	2:kF:4:ILE:H	1.81	0.45
2:hJ:274:ALA:CB	2:hJ:297:VAL:HG21	2.46	0.45
1:hQ:67:CYS:HA	1:hQ:72:CYS:HA	1.98	0.45
2:hS:226:LEU:HD23	2:hS:273:LYS:HE3	1.99	0.45
2:hU:23:ALA:C	2:hU:24:LEU:HD22	2.41	0.45
2:hW:60:ILE:CG2	2:hW:60:ILE:O	2.64	0.45
2:iu:30:THR:HG23	2:iu:298:LEU:HD13	1.98	0.45
2:iA:100:GLY:N	2:iA:101:PRO:CD	2.78	0.45
1:iT:97:PRO:HD2	2:jb:65:ILE:O	2.16	0.45
1:iV:99:LEU:HD23	1:iV:60:ARG:CZ	2.46	0.45
2:iW:30:THR:HG23	2:iW:298:LEU:HD13	1.98	0.45
2:iY:198:GLU:OE1	2:iY:198:GLU:N	2.48	0.45
2:jk:61:GLY:CA	1:lo:103:ARG:HD2	2.40	0.45
1:jr:100:LYS:CE	1:lq:100:LYS:NZ	2.79	0.45
2:jz:12:LEU:HD21	2:qb:14:THR:CG2	2.46	0.45
2:jz:197:LYS:NZ	1:pS:98:LEU:O	2.47	0.45
2:jE:166:PRO:HG3	2:jE:259:ILE:HG23	1.98	0.45
1:jJ:91:GLU:HB2	2:pK:4:ILE:CG2	2.46	0.45
1:jJ:99:LEU:HD23	1:jL:60:ARG:CZ	2.46	0.45
1:jL:62:THR:HG22	1:jL:63:VAL:N	2.31	0.45
2:jN:57:ARG:NH2	2:jN:58:GLU:O	2.48	0.45
2:jQ:30:THR:CG2	2:jQ:298:LEU:HD13	2.46	0.45
1:jY:67:CYS:HA	1:jY:72:CYS:HA	1.98	0.45
2:kd:208:GLU:OE1	2:kd:210:ARG:NE	2.49	0.45
2:kr:60:ILE:CG2	2:kr:60:ILE:O	2.64	0.45
2:kB:182:LEU:HG	2:kB:182:LEU:O	2.16	0.45
2:kC:67:ASP:HB2	2:kH:4:ILE:HD11	1.97	0.45
1:kM:63:VAL:HG12	1:kM:99:LEU:HD13	1.97	0.45
2:kV:166:PRO:HG3	2:kV:259:ILE:HG23	1.98	0.45
1:kY:102:GLU:HB3	1:lA:99:LEU:HD23	1.96	0.45
1:la:99:LEU:HD23	1:lc:60:ARG:CZ	2.46	0.45
2:ld:182:LEU:HG	2:ld:182:LEU:O	2.16	0.45
2:lh:4:ILE:H	2:IJ:69:ALA:HB2	1.81	0.45
2:lh:60:ILE:HG23	2:lh:60:ILE:O	2.14	0.45
2:lj:14:THR:CG2	2:mK:12:LEU:HD21	2.46	0.45
2:lv:85:GLY:O	2:pX:2:ALA:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lw:274:ALA:CB	2:lw:297:VAL:HG21	2.46	0.45
1:lC:63:VAL:HG12	1:lC:99:LEU:HD13	1.97	0.45
1:lC:98:LEU:O	2:mY:197:LYS:NZ	2.47	0.45
1:lC:102:GLU:CD	2:mX:62:GLN:OE1	2.53	0.45
2:lH:23:ALA:C	2:lH:24:LEU:HD22	2.41	0.45
2:lW:267:PRO:HD2	2:lW:270:LEU:HD12	1.98	0.45
2:lX:60:ILE:CG2	2:lX:60:ILE:O	2.64	0.45
2:mn:166:PRO:HG3	2:mn:259:ILE:HG23	1.98	0.45
1:ms:63:VAL:HG12	1:ms:99:LEU:HD13	1.97	0.45
2:mz:60:ILE:CG2	2:mz:60:ILE:O	2.64	0.45
2:mM:83:THR:HA	2:mM:205:MET:HG2	1.97	0.45
2:mX:43:ALA:HB2	2:mX:209:TYR:OH	2.15	0.45
2:nA:67:ASP:HB2	2:nF:4:ILE:HD11	1.97	0.45
2:nB:23:ALA:C	2:nB:24:LEU:HD22	2.41	0.45
2:nB:38:ILE:HG13	2:nB:38:ILE:O	2.15	0.45
2:nF:30:THR:CG2	2:nF:298:LEU:HD13	2.45	0.45
1:nK:99:LEU:HD23	1:nM:60:ARG:CZ	2.46	0.45
1:nL:96:ASP:HB2	2:nP:64:VAL:HG13	1.98	0.45
2:nT:242:VAL:O	2:nT:246:MET:HG3	2.15	0.45
1:nZ:96:ASP:HB2	2:od:64:VAL:HG13	1.99	0.45
2:ob:43:ALA:O	2:ob:44:SER:OG	2.20	0.45
2:oe:208:GLU:OE1	2:oe:210:ARG:NE	2.49	0.45
2:op:21:GLN:OE1	2:op:21:GLN:HA	2.16	0.45
2:or:23:ALA:C	2:or:24:LEU:HD22	2.41	0.45
2:ot:60:ILE:HG23	2:ot:60:ILE:O	2.14	0.45
2:ot:60:ILE:CG2	2:ot:60:ILE:O	2.64	0.45
1:oA:98:LEU:HD12	2:oI:63:ARG:O	2.15	0.45
2:oD:226:LEU:HD23	2:oD:273:LYS:HE3	1.98	0.45
2:oT:38:ILE:O	2:oT:38:ILE:HG13	2.15	0.45
2:oX:100:GLY:N	2:oX:101:PRO:CD	2.78	0.45
2:pf:226:LEU:HD23	2:pf:273:LYS:HE3	1.98	0.45
2:pg:57:ARG:NH2	2:pg:58:GLU:O	2.48	0.45
2:pl:166:PRO:HG3	2:pl:259:ILE:HG23	1.98	0.45
1:ps:62:THR:HG22	1:ps:63:VAL:N	2.31	0.45
2:pz:166:PRO:HG3	2:pz:259:ILE:HG23	1.98	0.45
2:pH:226:LEU:HD23	2:pH:273:LYS:HE3	1.98	0.45
1:pS:99:LEU:HD23	1:pU:60:ARG:CZ	2.46	0.45
1:pU:62:THR:HG22	1:pU:63:VAL:N	2.31	0.45
2:qb:100:GLY:N	2:qb:101:PRO:CD	2.78	0.45
3:qd:78:VAL:HG12	3:qd:79:VAL:N	2.30	0.45
3:qd:118:VAL:HG22	3:qd:118:VAL:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qf:118:VAL:HG22	3:qf:118:VAL:O	2.16	0.45
3:qh:118:VAL:HG22	3:qh:118:VAL:O	2.16	0.45
3:qi:55:GLU:OE1	4:qo:223:ASN:ND2	2.36	0.45
4:qm:179:THR:CG2	4:qn:247:GLY:HA3	2.46	0.45
5:qp:69:GLU:OE2	5:qL:207:ARG:NE	2.43	0.45
5:qx:236:LEU:HD21	5:qz:266:ILE:CD1	2.46	0.45
5:qz:96:ARG:CD	5:qB:114:LEU:CD2	2.81	0.45
5:qD:385:PRO:HA	5:qD:388:VAL:HG22	1.98	0.45
5:qF:385:PRO:HA	5:qF:388:VAL:HG22	1.98	0.45
1:af:62:THR:HG22	1:af:63:VAL:N	2.31	0.45
1:af:100:LYS:NZ	1:oi:100:LYS:CE	2.79	0.45
2:ai:2:ALA:N	2:np:85:GLY:O	2.48	0.45
2:am:14:THR:CG2	2:oc:12:LEU:HD21	2.46	0.45
1:an:102:GLU:OE2	1:oQ:99:LEU:HG	1.74	0.45
1:ar:63:VAL:HG12	1:ar:99:LEU:HD13	1.97	0.45
2:av:117:LEU:HD21	2:av:211:TYR:CA	2.46	0.45
2:aw:208:GLU:OE1	2:aw:210:ARG:NE	2.49	0.45
1:aG:62:THR:HG22	1:aG:63:VAL:N	2.31	0.45
2:aL:4:ILE:H	2:hv:69:ALA:HB2	1.81	0.45
2:aX:86:VAL:O	2:aX:202:GLN:N	2.46	0.45
2:bb:100:GLY:N	2:bb:101:PRO:CD	2.78	0.45
1:bc:100:LYS:CE	1:bi:100:LYS:NZ	2.79	0.45
1:bi:62:THR:HG22	1:bi:63:VAL:N	2.32	0.45
2:bj:9:ILE:HD12	2:bj:12:LEU:HG	1.99	0.45
1:bs:102:GLU:CD	1:bT:99:LEU:CA	2.87	0.45
1:bs:102:GLU:OE2	1:bT:100:LYS:N	2.49	0.45
1:bu:99:LEU:HD23	1:bw:60:ARG:CZ	2.46	0.45
2:bx:62:GLN:OE1	1:hP:102:GLU:CD	2.53	0.45
2:by:67:ASP:HB2	2:bD:4:ILE:HD11	1.97	0.45
2:bz:38:ILE:HG13	2:bz:38:ILE:O	2.15	0.45
2:bz:264:LEU:HB2	2:bz:295:VAL:HG11	1.98	0.45
2:bB:69:ALA:HB2	2:fa:4:ILE:H	1.81	0.45
2:bD:14:THR:CG2	2:dd:12:LEU:HD21	2.46	0.45
2:bD:166:PRO:HG3	2:bD:259:ILE:HG23	1.98	0.45
2:bO:174:ASP:OD1	2:bO:214:ARG:NH2	2.49	0.45
2:co:23:ALA:C	2:co:24:LEU:HD22	2.41	0.45
2:cq:69:ALA:HB2	2:jo:4:ILE:H	1.81	0.45
1:cv:102:GLU:OE2	1:pC:100:LYS:N	2.49	0.45
1:cx:103:ARG:HD2	2:pf:61:GLY:CA	2.40	0.45
1:cz:67:CYS:HA	1:cz:72:CYS:HA	1.97	0.45
2:cA:30:THR:HG23	2:cA:298:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cO:30:THR:HG23	2:cO:298:LEU:HD13	1.98	0.45
2:cQ:117:LEU:HD21	2:cQ:211:TYR:CA	2.45	0.45
2:cS:60:ILE:CG2	2:cS:60:ILE:O	2.64	0.45
2:cT:274:ALA:CB	2:cT:297:VAL:HG21	2.46	0.45
1:cX:102:GLU:OE2	1:dz:100:LYS:N	2.49	0.45
2:dg:62:GLN:HE21	2:fp:197:LYS:HZ1	1.62	0.45
2:dq:226:LEU:HD23	2:dq:273:LYS:HE3	1.98	0.45
2:du:85:GLY:O	2:hU:2:ALA:N	2.48	0.45
2:dw:55:LYS:HG3	2:dw:253:GLY:O	2.15	0.45
1:dz:102:GLU:HB3	1:gx:99:LEU:HD23	1.96	0.45
1:dz:102:GLU:OE2	1:gx:100:LYS:N	2.49	0.45
2:dE:226:LEU:HD23	2:dE:273:LYS:HE3	1.98	0.45
2:dI:4:ILE:H	2:gG:69:ALA:HB2	1.81	0.45
2:dK:238:ASN:O	2:dK:242:VAL:HG13	2.16	0.45
2:dW:30:THR:CG2	2:dW:298:LEU:HD13	2.46	0.45
2:dY:185:GLN:O	2:dY:205:MET:N	2.43	0.45
2:em:238:ASN:O	2:em:242:VAL:HG13	2.17	0.45
1:ep:102:GLU:OE2	1:pa:100:LYS:N	2.49	0.45
1:eB:100:LYS:CE	1:gB:100:LYS:NZ	2.79	0.45
1:eG:96:ASP:HB2	2:eK:64:VAL:HG13	1.99	0.45
2:eI:30:THR:HG23	2:eI:298:LEU:HD13	1.98	0.45
2:eJ:57:ARG:NH2	2:eJ:58:GLU:O	2.48	0.45
2:eJ:257:LEU:HD22	2:gp:24:LEU:HD21	1.96	0.45
2:eY:23:ALA:C	2:eY:24:LEU:HD22	2.41	0.45
2:eZ:208:GLU:OE1	2:eZ:210:ARG:NE	2.49	0.45
2:fb:274:ALA:CB	2:fb:297:VAL:HG21	2.46	0.45
2:fb:280:VAL:O	2:fb:289:ASN:ND2	2.44	0.45
2:fo:174:ASP:OD1	2:fo:214:ARG:NH2	2.49	0.45
1:fv:102:GLU:CD	2:nl:62:GLN:OE1	2.53	0.45
2:fD:280:VAL:O	2:fD:289:ASN:ND2	2.44	0.45
1:fJ:99:LEU:HD23	1:fL:60:ARG:CZ	2.46	0.45
1:fL:99:LEU:HD23	1:ma:102:GLU:CG	2.19	0.45
2:fM:30:THR:HG23	2:fM:298:LEU:HD13	1.98	0.45
2:fM:43:ALA:HB2	2:fM:209:TYR:OH	2.15	0.45
2:fN:12:LEU:HD21	2:gg:14:THR:CG2	2.46	0.45
2:ga:182:LEU:HG	2:ga:182:LEU:O	2.16	0.45
2:gc:38:ILE:O	2:gc:38:ILE:HG13	2.15	0.45
2:gr:208:GLU:OE1	2:gr:210:ARG:NE	2.49	0.45
2:gu:100:GLY:N	2:gu:101:PRO:CD	2.78	0.45
2:gu:238:ASN:O	2:gu:242:VAL:HG13	2.17	0.45
2:gG:60:ILE:CG2	2:gG:60:ILE:O	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gM:63:VAL:HG23	1:gM:99:LEU:CD1	2.42	0.45
1:gN:97:PRO:HD2	2:gV:65:ILE:O	2.16	0.45
2:gQ:21:GLN:OE1	2:gQ:21:GLN:HA	2.16	0.45
2:gT:4:ILE:CG2	1:lQ:91:GLU:HB2	2.47	0.45
2:gT:83:THR:HA	2:gT:205:MET:HG2	1.97	0.45
2:he:62:GLN:OE1	1:ky:102:GLU:HG2	2.02	0.45
2:he:226:LEU:HD23	2:he:273:LYS:HE3	1.98	0.45
2:hg:23:ALA:C	2:hg:24:LEU:HD22	2.41	0.45
2:hh:4:ILE:CG2	1:ky:91:GLU:HB2	2.46	0.45
1:hn:102:GLU:OE2	1:kK:100:LYS:N	2.49	0.45
1:hr:100:LYS:NZ	1:ku:100:LYS:CE	2.79	0.45
2:hs:182:LEU:HG	2:hs:182:LEU:O	2.16	0.45
2:hs:226:LEU:HD23	2:hs:273:LYS:HE3	1.98	0.45
2:hX:238:ASN:O	2:hX:242:VAL:HG13	2.17	0.45
1:hC:63:VAL:HG12	1:hC:99:LEU:HD13	1.97	0.45
2:hI:60:ILE:CG2	2:hI:60:ILE:O	2.64	0.45
2:hV:267:PRO:HD2	2:hV:270:LEU:HD12	1.98	0.45
1:id:97:PRO:HD2	2:il:65:ILE:O	2.16	0.45
1:id:99:LEU:HD23	1:if:60:ARG:CZ	2.46	0.45
1:ir:97:PRO:HD2	2:iz:65:ILE:O	2.16	0.45
1:it:100:LYS:NZ	1:jT:100:LYS:CE	2.79	0.45
1:iB:59:VAL:HG12	1:iB:61:ALA:N	2.28	0.45
1:iE:63:VAL:HG23	1:iE:99:LEU:CD1	2.42	0.45
2:iM:174:ASP:OD1	2:iM:214:ARG:NH2	2.49	0.45
1:iR:100:LYS:N	1:kj:102:GLU:OE2	2.49	0.45
2:iW:43:ALA:HB2	2:iW:209:TYR:OH	2.15	0.45
2:iX:67:ASP:HB2	2:jC:4:ILE:HD11	1.97	0.45
2:jC:166:PRO:HG3	2:jC:259:ILE:HG23	1.98	0.45
1:ji:67:CYS:HA	1:ji:72:CYS:HA	1.98	0.45
1:ji:96:ASP:HB2	2:jM:64:VAL:HG13	1.99	0.45
2:jK:30:THR:HG23	2:jK:298:LEU:HD13	1.98	0.45
2:jM:38:ILE:O	2:jM:38:ILE:HG13	2.15	0.45
2:jQ:166:PRO:HG3	2:jQ:259:ILE:HG23	1.98	0.45
1:jv:99:LEU:HD23	1:jX:60:ARG:CZ	2.46	0.45
1:jX:62:THR:HG22	1:jX:63:VAL:N	2.31	0.45
2:jA:38:ILE:O	2:jA:38:ILE:HG13	2.15	0.45
2:jC:69:ALA:HB2	2:nB:4:ILE:H	1.81	0.45
2:jO:264:LEU:HB2	2:jO:295:VAL:HG11	1.97	0.45
2:jP:208:GLU:OE1	2:jP:210:ARG:NE	2.49	0.45
2:ka:182:LEU:HG	2:ka:182:LEU:O	2.16	0.45
2:ka:226:LEU:HD23	2:ka:273:LYS:HE3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kb:42:THR:HG22	2:kb:43:ALA:N	2.30	0.45
2:ko:30:THR:HG23	2:ko:298:LEU:HD13	1.98	0.45
2:kp:38:ILE:O	2:kp:38:ILE:HG13	2.15	0.45
1:ky:98:LEU:HD12	2:kG:63:ARG:O	2.15	0.45
1:kA:62:THR:HG22	1:kA:63:VAL:N	2.31	0.45
2:kB:21:GLN:OE1	2:kB:21:GLN:HA	2.16	0.45
2:kB:226:LEU:HD23	2:kB:273:LYS:HE3	1.98	0.45
2:kC:12:LEU:HD21	2:kV:14:THR:CG2	2.46	0.45
2:kH:55:LYS:HG3	2:kH:253:GLY:O	2.15	0.45
1:kW:100:LYS:CE	1:mW:100:LYS:NZ	2.79	0.45
1:la:97:PRO:HD2	2:li:65:ILE:O	2.16	0.45
2:lh:85:GLY:O	2:lH:2:ALA:N	2.48	0.45
2:lj:100:GLY:N	2:lj:101:PRO:CD	2.78	0.45
1:lq:67:CYS:HA	1:lq:72:CYS:HA	1.97	0.45
2:lx:166:PRO:HG3	2:lx:259:ILE:HG23	1.98	0.45
1:lE:67:CYS:HA	1:lE:72:CYS:HA	1.98	0.45
1:lE:100:LYS:NZ	1:ne:100:LYS:CE	2.79	0.45
2:II:208:GLU:OE1	2:II:210:ARG:NE	2.49	0.45
2:IT:30:THR:HG23	2:IT:298:LEU:HD13	1.98	0.45
2:IU:67:ASP:HB2	2:IZ:4:ILE:HD11	1.97	0.45
1:md:63:VAL:HG23	1:md:99:LEU:CD1	2.42	0.45
1:mg:62:THR:HG22	1:mg:63:VAL:N	2.31	0.45
2:mh:21:GLN:HA	2:mh:21:GLN:OE1	2.16	0.45
2:mh:30:THR:HG23	2:mh:298:LEU:HD13	1.98	0.45
2:mh:226:LEU:HD23	2:mh:273:LYS:HE3	1.98	0.45
1:ms:97:PRO:HD2	2:mA:65:ILE:O	2.16	0.45
1:mG:91:GLU:HB2	2:os:4:ILE:CG2	2.46	0.45
1:mU:99:LEU:HD23	1:mW:60:ARG:CZ	2.46	0.45
1:mV:96:ASP:HB2	2:mZ:64:VAL:HG13	1.98	0.45
2:mY:75:ILE:HG22	2:mY:76:THR:N	2.30	0.45
2:nb:60:ILE:HG23	2:nb:60:ILE:O	2.15	0.45
2:nd:166:PRO:HG3	2:nd:259:ILE:HG23	1.98	0.45
2:nl:182:LEU:HG	2:nl:182:LEU:O	2.16	0.45
2:nn:117:LEU:HD21	2:nn:211:TYR:CA	2.45	0.45
2:nr:238:ASN:O	2:nr:242:VAL:HG13	2.17	0.45
1:nx:67:CYS:HA	1:nx:72:CYS:HA	1.98	0.45
2:nz:226:LEU:HD23	2:nz:273:LYS:HE3	1.99	0.45
2:nQ:267:PRO:HD2	2:nQ:270:LEU:HD12	1.98	0.45
2:ob:9:ILE:HD12	2:ob:12:LEU:HG	1.99	0.45
2:of:60:ILE:CG2	2:of:60:ILE:O	2.64	0.45
1:om:91:GLU:HB2	2:pY:4:ILE:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oO:99:LEU:HD23	1:oQ:60:ARG:CZ	2.46	0.45
2:oS:141:HIS:CD2	2:oS:150:THR:HG1	2.31	0.45
2:oT:264:LEU:HB2	2:oT:295:VAL:HG11	1.97	0.45
1:pc:99:LEU:HD23	1:pe:60:ARG:CZ	2.46	0.45
2:pf:9:ILE:HD12	2:pf:12:LEU:HG	1.99	0.45
2:ph:23:ALA:C	2:ph:24:LEU:HD22	2.41	0.45
2:ph:117:LEU:HD21	2:ph:211:TYR:CA	2.45	0.45
2:px:30:THR:CG2	2:px:298:LEU:HD13	2.46	0.45
2:py:274:ALA:CB	2:py:297:VAL:HG21	2.46	0.45
2:pH:182:LEU:HG	2:pH:182:LEU:O	2.16	0.45
2:pN:30:THR:CG2	2:pN:298:LEU:HD13	2.46	0.45
1:pU:67:CYS:HA	1:pU:72:CYS:HA	1.98	0.45
2:pV:21:GLN:OE1	2:pV:21:GLN:HA	2.16	0.45
2:pY:267:PRO:HD2	2:pY:270:LEU:HD12	1.98	0.45
2:pZ:30:THR:CG2	2:pZ:298:LEU:HD13	2.46	0.45
3:qg:70:GLN:NE2	3:qg:72:VAL:HG22	2.31	0.45
3:qi:66:GLN:HA	4:qo:8:TYR:C	2.42	0.45
5:qp:236:LEU:HD21	5:qr:266:ILE:CD1	2.46	0.45
5:qr:236:LEU:HD21	5:qt:266:ILE:CD1	2.46	0.45
5:qt:380:MET:CE	5:qt:403:LEU:HD21	2.44	0.45
5:qD:229:ILE:HD13	5:qF:232:LEU:HD21	1.85	0.45
5:qD:236:LEU:HD21	5:qF:266:ILE:CD1	2.46	0.45
5:qJ:385:PRO:HA	5:qJ:388:VAL:HG22	1.98	0.45
1:ad:99:LEU:HD23	1:af:60:ARG:CZ	2.46	0.45
2:ag:6:PRO:HA	2:ag:9:ILE:HG22	1.96	0.45
2:ag:226:LEU:HD23	2:ag:273:LYS:HE3	1.98	0.45
2:aj:79:LEU:HD12	2:aj:79:LEU:C	2.42	0.45
2:ak:4:ILE:H	2:mN:69:ALA:HB2	1.81	0.45
1:an:100:LYS:CE	1:oQ:100:LYS:NZ	2.79	0.45
2:av:2:ALA:N	2:hW:85:GLY:O	2.48	0.45
2:av:179:LEU:HD22	2:av:209:TYR:HD2	1.82	0.45
2:av:264:LEU:HB2	2:av:295:VAL:HG11	1.98	0.45
1:aA:100:LYS:CE	1:kn:100:LYS:NZ	2.79	0.45
1:aE:91:GLU:HB2	2:kd:4:ILE:CG2	2.47	0.45
1:aE:98:LEU:O	2:kb:197:LYS:NZ	2.47	0.45
1:aE:99:LEU:HD23	1:aG:60:ARG:CZ	2.46	0.45
1:aU:62:THR:HG22	1:aU:63:VAL:N	2.31	0.45
2:aV:30:THR:HG23	2:aV:298:LEU:HD13	1.98	0.45
2:aV:182:LEU:HG	2:aV:182:LEU:O	2.16	0.45
2:aX:117:LEU:HD21	2:aX:211:TYR:CA	2.45	0.45
2:aZ:30:THR:CG2	2:aZ:298:LEU:HD13	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aZ:60:ILE:CG2	2:aZ:60:ILE:O	2.64	0.45
2:aZ:174:ASP:OD1	2:aZ:214:ARG:NH2	2.49	0.45
2:ba:274:ALA:CB	2:ba:297:VAL:HG21	2.46	0.45
2:bb:30:THR:CG2	2:bb:298:LEU:HD13	2.45	0.45
1:bh:67:CYS:HA	1:bh:72:CYS:HA	1.98	0.45
2:bk:57:ARG:NH2	2:bk:58:GLU:O	2.48	0.45
2:bk:75:ILE:HG22	2:bk:76:THR:N	2.30	0.45
2:bl:23:ALA:C	2:bl:24:LEU:HD22	2.41	0.45
2:bn:60:ILE:CG2	2:bn:60:ILE:O	2.64	0.45
2:bA:208:GLU:OE1	2:bA:210:ARG:NE	2.49	0.45
2:bA:267:PRO:HD2	2:bA:270:LEU:HD12	1.98	0.45
2:bB:30:THR:CG2	2:bB:298:LEU:HD13	2.46	0.45
2:bD:30:THR:CG2	2:bD:298:LEU:HD13	2.45	0.45
1:bE:100:LYS:CE	1:hR:100:LYS:NZ	2.79	0.45
1:bG:99:LEU:HD23	1:gL:102:GLU:HB3	1.96	0.45
1:bI:99:LEU:HD23	1:bK:60:ARG:CZ	2.46	0.45
2:bL:258:ASP:OD1	2:bL:260:ARG:NH1	2.50	0.45
2:bM:86:VAL:O	2:bM:202:GLN:N	2.46	0.45
2:bO:4:ILE:H	2:gs:69:ALA:HB2	1.81	0.45
2:bY:30:THR:HG23	2:bY:298:LEU:HD13	1.98	0.45
2:ca:117:LEU:HD21	2:ca:211:TYR:CA	2.45	0.45
2:ce:14:THR:CG2	2:dr:12:LEU:HD21	2.46	0.45
2:ce:238:ASN:O	2:ce:242:VAL:HG13	2.17	0.45
1:cf:100:LYS:CE	1:iH:100:LYS:NZ	2.79	0.45
1:ck:96:ASP:HB2	2:co:64:VAL:HG13	1.99	0.45
1:cl:62:THR:HG22	1:cl:63:VAL:N	2.31	0.45
2:cn:12:LEU:HD21	2:pz:14:THR:CG2	2.46	0.45
2:cC:23:ALA:C	2:cC:24:LEU:HD22	2.41	0.45
2:cC:65:ILE:HD12	2:cF:203:VAL:HG13	1.99	0.45
2:cE:174:ASP:OD1	2:cE:214:ARG:NH2	2.49	0.45
2:cO:258:ASP:OD1	2:cO:260:ARG:NH1	2.50	0.45
2:cP:57:ARG:NH2	2:cP:58:GLU:O	2.48	0.45
1:cW:100:LYS:CB	1:f:100:LYS:CE	2.92	0.45
2:dc:182:LEU:HG	2:dc:182:LEU:O	2.16	0.45
1:dl:102:GLU:OE2	1:hN:100:LYS:N	2.49	0.45
2:ds:53:PHE:O	2:ds:255:ARG:NH2	2.43	0.45
2:dE:30:THR:HG23	2:dE:298:LEU:HD13	1.98	0.45
2:dG:23:ALA:C	2:dG:24:LEU:HD22	2.41	0.45
1:dR:62:THR:HG22	1:dR:63:VAL:N	2.31	0.45
2:dS:258:ASP:OD1	2:dS:260:ARG:NH1	2.50	0.45
2:dT:205:MET:CE	2:nO:63:ARG:NE	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dV:4:ILE:CG2	1:nK:91:GLU:HB2	2.47	0.45
1:eb:60:ARG:HH21	1:nW:99:LEU:HD21	0.59	0.45
2:eg:150:THR:OG1	2:eg:220:GLY:O	2.18	0.45
2:eg:182:LEU:HG	2:eg:182:LEU:O	2.16	0.45
2:eg:226:LEU:HD23	2:eg:273:LYS:HE3	1.99	0.45
2:ei:264:LEU:HB2	2:ei:295:VAL:HG11	1.97	0.45
2:em:100:GLY:N	2:em:101:PRO:CD	2.78	0.45
2:eu:6:PRO:HA	2:eu:9:ILE:HG22	1.96	0.45
2:eu:43:ALA:HB2	2:eu:209:TYR:OH	2.15	0.45
2:ev:12:LEU:HD21	2:gI:14:THR:CG2	2.46	0.45
2:ew:191:SER:OG	2:nQ:186:GLU:O	2.08	0.45
2:eI:9:ILE:HD12	2:eI:12:LEU:HG	1.99	0.45
1:eT:97:PRO:HD2	2:fb:65:ILE:O	2.16	0.45
2:fa:30:THR:CG2	2:fa:298:LEU:HD13	2.46	0.45
1:fg:63:VAL:HG23	1:fg:99:LEU:CD1	2.42	0.45
1:fh:102:GLU:CD	2:gC:62:GLN:OE1	2.53	0.45
2:fk:182:LEU:HG	2:fk:182:LEU:O	2.16	0.45
2:fn:95:ASN:C	2:fn:96:LEU:HD22	2.40	0.45
1:fx:100:LYS:NZ	1:ns:100:LYS:CE	2.79	0.45
2:fy:258:ASP:OD1	2:fy:260:ARG:NH1	2.50	0.45
2:fb:4:ILE:CG2	1:me:91:GLU:HB2	2.47	0.45
2:fb:83:THR:HA	2:fb:205:MET:HG2	1.97	0.45
1:fl:103:ARG:NH1	2:gc:61:GLY:CA	2.70	0.45
2:fM:9:ILE:HD12	2:fM:12:LEU:HG	1.99	0.45
2:fM:182:LEU:HG	2:fM:182:LEU:O	2.16	0.45
2:gb:67:ASP:HB2	2:gg:4:ILE:HD11	1.97	0.45
2:gb:75:ILE:HG22	2:gb:76:THR:N	2.30	0.45
2:gg:185:GLN:O	2:gg:205:MET:N	2.43	0.45
1:gn:100:LYS:NZ	1:hZ:100:LYS:CE	2.79	0.45
2:go:182:LEU:HG	2:go:182:LEU:O	2.16	0.45
2:gE:23:ALA:C	2:gE:24:LEU:HD22	2.41	0.45
2:gF:83:THR:HA	2:gF:205:MET:HG2	1.97	0.45
2:gW:238:ASN:O	2:gW:242:VAL:HG13	2.17	0.45
1:hc:67:CYS:HA	1:hc:72:CYS:HA	1.98	0.45
2:hF:197:LYS:NZ	1:ky:98:LEU:O	2.47	0.45
2:hh:208:GLU:OE1	2:hh:210:ARG:NE	2.49	0.45
1:hp:91:GLU:HB2	2:kq:4:ILE:CG2	2.47	0.45
2:hs:9:ILE:HD12	2:hs:12:LEU:HG	1.99	0.45
2:hu:65:ILE:HG22	2:hu:66:LYS:N	2.30	0.45
2:hV:83:THR:HA	2:hV:205:MET:HG2	1.97	0.45
1:hZ:59:VAL:HG12	1:hZ:61:ALA:N	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ig:182:LEU:HG	2:ig:182:LEU:O	2.16	0.45
2:ik:60:ILE:CG2	2:ik:60:ILE:O	2.64	0.45
1:ir:99:LEU:HD23	1:it:60:ARG:CZ	2.46	0.45
1:iF:97:PRO:HD2	2:iN:65:ILE:O	2.16	0.45
1:iG:96:ASP:HB2	2:iK:64:VAL:HG13	1.99	0.45
1:iH:62:THR:HG22	1:iH:63:VAL:N	2.31	0.45
2:iI:21:GLN:OE1	2:iI:21:GLN:HA	2.16	0.45
1:iV:62:THR:HG22	1:iV:63:VAL:N	2.31	0.45
2:iX:44:SER:OG	2:iX:75:ILE:O	2.21	0.45
2:jb:274:ALA:CB	2:jb:297:VAL:HG21	2.46	0.45
2:jk:150:THR:OG1	2:jk:220:GLY:O	2.18	0.45
2:jl:12:LEU:HD21	2:lx:14:THR:CG2	2.46	0.45
2:jn:208:GLU:OE1	2:jn:210:ARG:NE	2.49	0.45
2:jy:182:LEU:HG	2:jy:182:LEU:O	2.16	0.45
2:jA:179:LEU:HD22	2:jA:209:TYR:HD2	1.82	0.45
1:jH:102:GLU:OE2	1:ok:100:LYS:N	2.49	0.45
1:jL:100:LYS:NZ	1:pO:100:LYS:CE	2.79	0.45
2:jN:75:ILE:HG22	2:jN:76:THR:N	2.30	0.45
2:jQ:69:ALA:HB2	2:oV:4:ILE:H	1.81	0.45
2:ke:60:ILE:HG23	2:ke:60:ILE:O	2.14	0.45
2:kg:238:ASN:O	2:kg:242:VAL:HG13	2.17	0.45
1:km:96:ASP:HB2	2:kp:64:VAL:HG13	1.99	0.45
1:ky:97:PRO:HD2	2:kG:65:ILE:O	2.16	0.45
1:kO:62:THR:HG22	1:kO:63:VAL:N	2.31	0.45
2:kR:65:ILE:HD12	2:kU:203:VAL:HG13	1.99	0.45
2:lr:9:ILE:HD12	2:lr:12:LEU:HG	1.99	0.45
2:lx:238:ASN:O	2:lx:242:VAL:HG13	2.17	0.45
2:lF:30:THR:HG23	2:lF:298:LEU:HD13	1.98	0.45
2:lI:65:ILE:HG22	2:lI:66:LYS:N	2.30	0.45
2:lJ:4:ILE:H	2:oH:69:ALA:HB2	1.81	0.45
2:lK:274:ALA:CB	2:lK:297:VAL:HG21	2.46	0.45
1:lQ:63:VAL:HG12	1:lQ:99:LEU:HD13	1.97	0.45
2:lT:258:ASP:OD1	2:lT:260:ARG:NH1	2.50	0.45
1:me:97:PRO:HD2	2:mm:65:ILE:O	2.16	0.45
1:mF:96:ASP:HB2	2:mj:64:VAL:HG13	1.99	0.45
2:mh:182:LEU:HG	2:mh:182:LEU:O	2.16	0.45
2:mi:42:THR:HG22	2:mi:43:ALA:N	2.30	0.45
2:mv:21:GLN:OE1	2:mv:21:GLN:HA	2.16	0.45
2:mx:53:PHE:O	2:mx:255:ARG:NH2	2.43	0.45
2:mx:179:LEU:HD22	2:mx:209:TYR:HD2	1.82	0.45
2:mZ:38:ILE:O	2:mZ:38:ILE:HG13	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mZ:117:LEU:HD21	2:mZ:211:TYR:CA	2.45	0.45
1:nk:67:CYS:HA	1:nk:72:CYS:HA	1.98	0.45
2:nl:226:LEU:HD23	2:nl:273:LYS:HE3	1.98	0.45
1:nv:62:THR:OG1	1:nv:100:LYS:O	2.27	0.45
1:nU:100:LYS:CE	1:oa:100:LYS:NZ	2.79	0.45
2:ob:226:LEU:HD23	2:ob:273:LYS:HE3	1.99	0.45
2:oh:166:PRO:HG3	2:oh:259:ILE:HG23	1.98	0.45
2:op:182:LEU:HG	2:op:182:LEU:O	2.16	0.45
2:os:208:GLU:OE1	2:os:210:ARG:NE	2.49	0.45
2:pt:226:LEU:HD23	2:pt:273:LYS:HE3	1.98	0.45
2:pw:4:ILE:CG2	1:pE:91:GLU:HB2	2.46	0.45
1:pE:99:LEU:HD23	1:pG:60:ARG:CZ	2.46	0.45
2:pL:60:ILE:CG2	2:pL:60:ILE:O	2.64	0.45
3:qg:118:VAL:HG22	3:qg:118:VAL:O	2.16	0.45
4:ql:48:GLU:HG2	4:ql:57:VAL:HG11	1.98	0.45
6:qA:112:LEU:HD23	6:qC:58:LEU:CD1	1.02	0.45
5:qB:236:LEU:HD21	5:qD:266:ILE:CD1	2.46	0.45
5:qD:109:LEU:O	5:qD:113:LEU:HD13	2.16	0.45
5:qD:218:TYR:OH	6:qI:133:ASP:OD2	2.28	0.45
5:qH:252:LEU:CD2	6:qK:126:GLN:HG2	2.36	0.45
1:aa:102:GLU:OE1	1:nh:99:LEU:CB	2.62	0.45
1:ad:98:LEU:HD12	2:al:63:ARG:O	2.15	0.45
2:ah:12:LEU:HD21	2:oX:14:THR:CG2	2.46	0.45
2:ai:117:LEU:HD21	2:ai:211:TYR:CA	2.45	0.45
1:aC:102:GLU:CD	1:hn:99:LEU:CA	2.87	0.45
1:aC:102:GLU:OE2	1:hn:100:LYS:N	2.49	0.45
1:aS:99:LEU:HD23	1:aU:60:ARG:CZ	2.46	0.45
2:bj:21:GLN:HA	2:bj:21:GLN:OE1	2.16	0.45
2:bn:30:THR:CG2	2:bn:298:LEU:HD13	2.46	0.45
2:bp:30:THR:CG2	2:bp:298:LEU:HD13	2.46	0.45
1:bw:67:CYS:HA	1:bw:72:CYS:HA	1.97	0.45
2:bx:182:LEU:HG	2:bx:182:LEU:O	2.16	0.45
2:bA:4:ILE:CG2	1:hP:91:GLU:HB2	2.47	0.45
2:bM:264:LEU:HB2	2:bM:295:VAL:HG11	1.97	0.45
2:cb:79:LEU:HD12	2:cb:79:LEU:C	2.42	0.45
2:cc:30:THR:CG2	2:cc:298:LEU:HD13	2.46	0.45
2:cm:30:THR:HG23	2:cm:298:LEU:HD13	1.98	0.45
1:ct:100:LYS:CE	1:ps:100:LYS:NZ	2.79	0.45
1:cx:99:LEU:HD23	1:cz:60:ARG:CZ	2.46	0.45
2:cC:179:LEU:HD22	2:cC:209:TYR:HD2	1.82	0.45
2:cE:69:ALA:HB2	2:dW:4:ILE:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cO:182:LEU:HG	2:cO:182:LEU:O	2.16	0.45
2:cS:30:THR:CG2	2:cS:298:LEU:HD13	2.46	0.45
2:cU:185:GLN:O	2:cU:205:MET:N	2.43	0.45
1:cZ:99:LEU:HD23	1:db:60:ARG:CZ	2.46	0.45
2:dc:9:ILE:HD12	2:dc:12:LEU:HG	1.99	0.45
2:df:208:GLU:OE1	2:df:210:ARG:NE	2.49	0.45
2:ds:264:LEU:HB2	2:ds:295:VAL:HG11	1.97	0.45
1:dz:102:GLU:CD	1:gx:99:LEU:CA	2.87	0.45
1:dB:99:LEU:HD23	1:dD:60:ARG:CZ	2.46	0.45
2:dE:258:ASP:OD1	2:dE:260:ARG:NH1	2.50	0.45
2:dI:174:ASP:OD1	2:dI:214:ARG:NH2	2.49	0.45
1:dQ:67:CYS:HA	1:dQ:72:CYS:HA	1.98	0.45
1:dQ:100:LYS:CE	1:jG:100:LYS:CB	2.92	0.45
2:dS:182:LEU:HG	2:dS:182:LEU:O	2.16	0.45
2:dV:208:GLU:OE1	2:dV:210:ARG:NE	2.49	0.45
1:ep:100:LYS:N	1:nI:102:GLU:OE2	2.49	0.45
1:er:99:LEU:HD23	1:et:60:ARG:CZ	2.46	0.45
1:et:62:THR:HG22	1:et:63:VAL:N	2.31	0.45
1:eC:100:LYS:CB	1:gO:100:LYS:CE	2.92	0.45
1:eG:67:CYS:HA	1:eG:72:CYS:HA	1.98	0.45
1:eH:67:CYS:HA	1:eH:72:CYS:HA	1.97	0.45
2:eI:182:LEU:HG	2:eI:182:LEU:O	2.16	0.45
2:eJ:42:THR:HG22	2:eJ:43:ALA:N	2.30	0.45
2:eL:79:LEU:HD12	2:eL:79:LEU:C	2.42	0.45
2:eL:208:GLU:OE1	2:eL:210:ARG:NE	2.49	0.45
1:fh:102:GLU:HG2	2:gC:62:GLN:OE1	2.02	0.45
1:fj:100:LYS:NZ	1:gJ:100:LYS:CE	2.79	0.45
1:fx:62:THR:HG22	1:fx:63:VAL:N	2.31	0.45
2:fy:6:PRO:HA	2:fy:9:ILE:HG22	1.96	0.45
2:fz:63:ARG:NE	2:nm:205:MET:CE	2.74	0.45
2:fA:38:ILE:O	2:fA:38:ILE:HG13	2.15	0.45
2:fE:238:ASN:O	2:fE:242:VAL:HG13	2.17	0.45
1:fH:102:GLU:OE2	1:mq:100:LYS:N	2.49	0.45
2:fP:79:LEU:HD12	2:fP:79:LEU:C	2.42	0.45
1:fV:102:GLU:OE2	1:nu:100:LYS:N	2.49	0.45
1:gh:100:LYS:CE	1:if:100:LYS:NZ	2.79	0.45
1:gl:97:PRO:HD2	2:gt:65:ILE:O	2.16	0.45
2:gt:280:VAL:O	2:gt:289:ASN:ND2	2.44	0.45
1:gZ:98:LEU:HD12	2:gH:63:ARG:O	2.16	0.45
2:gQ:226:LEU:HD23	2:gQ:273:LYS:HE3	1.98	0.45
1:hp:98:LEU:HD12	2:hw:63:ARG:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hs:106:MET:CG	5:qB:178:PRO:HG3	2.37	0.45
2:hK:238:ASN:O	2:hK:242:VAL:HG13	2.17	0.45
2:hS:182:LEU:HG	2:hS:182:LEU:O	2.16	0.45
2:hT:75:ILE:HG22	2:hT:76:THR:N	2.30	0.45
2:hV:79:LEU:HD12	2:hV:79:LEU:C	2.42	0.45
2:ig:21:GLN:OE1	2:ig:21:GLN:HA	2.16	0.45
2:ig:226:LEU:HD23	2:ig:273:LYS:HE3	1.98	0.45
2:im:100:GLY:N	2:im:101:PRO:CD	2.78	0.45
2:im:238:ASN:O	2:im:242:VAL:HG13	2.17	0.45
1:ir:98:LEU:O	2:jN:197:LYS:NZ	2.47	0.45
2:iu:258:ASP:OD1	2:iu:260:ARG:NH1	2.50	0.45
2:iv:63:ARG:NE	2:jN:205:MET:CE	2.74	0.45
2:ja:174:ASP:OD1	2:ja:214:ARG:NH2	2.49	0.45
2:jc:238:ASN:O	2:jc:242:VAL:HG13	2.17	0.45
2:jk:182:LEU:HG	2:jk:182:LEU:O	2.16	0.45
2:jm:179:LEU:HD22	2:jm:209:TYR:HD2	1.82	0.45
1:ju:63:VAL:HG23	1:ju:99:LEU:CD1	2.42	0.45
1:jv:57:VAL:O	1:jv:59:VAL:HG23	2.17	0.45
1:jw:67:CYS:HA	1:jw:72:CYS:HA	1.98	0.45
1:jx:100:LYS:NZ	1:lk:100:LYS:CE	2.79	0.45
2:jE:14:THR:CG2	2:le:12:LEU:HD21	2.46	0.45
2:jM:182:LEU:HG	2:jM:182:LEU:O	2.16	0.45
2:jN:67:ASP:HB2	2:jS:4:ILE:HD11	1.97	0.45
2:jO:38:ILE:O	2:jO:38:ILE:HG13	2.15	0.45
1:jX:97:PRO:HD2	2:kf:65:ILE:O	2.16	0.45
2:kc:23:ALA:C	2:kc:24:LEU:HD22	2.41	0.45
2:kc:65:ILE:HD12	2:kf:203:VAL:HG13	1.99	0.45
2:kE:267:PRO:HD2	2:kE:270:LEU:HD12	1.98	0.45
1:kI:100:LYS:CE	1:kO:100:LYS:NZ	2.79	0.45
1:kM:97:PRO:HD2	2:kU:65:ILE:O	2.16	0.45
2:kQ:141:HIS:CD2	2:kQ:150:THR:HG1	2.30	0.45
1:kX:100:LYS:CB	1:nj:100:LYS:CE	2.92	0.45
1:lc:62:THR:HG22	1:lc:63:VAL:N	2.31	0.45
1:lc:100:LYS:NZ	1:mQ:100:LYS:CE	2.79	0.45
2:ld:9:ILE:HD12	2:ld:12:LEU:HG	1.99	0.45
2:ld:258:ASP:OD1	2:ld:260:ARG:NH1	2.50	0.45
1:lp:67:CYS:HA	1:lp:72:CYS:HA	1.98	0.45
2:lr:182:LEU:HG	2:lr:182:LEU:O	2.16	0.45
1:lC:99:LEU:HD23	1:lE:60:ARG:CZ	2.46	0.45
2:lI:95:ASN:C	2:lI:96:LEU:HD22	2.40	0.45
2:mi:24:LEU:HD21	2:mw:257:LEU:HD22	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mk:267:PRO:HD2	2:mk:270:LEU:HD12	1.98	0.45
2:ml:60:ILE:CG2	2:ml:60:ILE:O	2.64	0.45
1:ms:99:LEU:HD23	1:mu:60:ARG:CZ	2.46	0.45
2:mv:258:ASP:OD1	2:mv:260:ARG:NH1	2.50	0.45
1:mC:100:LYS:CE	1:oC:100:LYS:NZ	2.79	0.45
1:mI:100:LYS:NZ	1:ow:100:LYS:CE	2.79	0.45
1:mT:63:VAL:HG23	1:mT:99:LEU:CD1	2.42	0.45
2:mX:9:ILE:HD12	2:mX:12:LEU:HG	1.99	0.45
2:mX:258:ASP:OD1	2:mX:260:ARG:NH1	2.50	0.45
1:ni:99:LEU:HD23	1:nk:60:ARG:CZ	2.46	0.45
1:nj:96:ASP:HB2	2:nn:64:VAL:HG13	1.99	0.45
1:nk:100:LYS:NZ	1:oK:100:LYS:CE	2.79	0.45
2:np:174:ASP:OD1	2:np:214:ARG:NH2	2.49	0.45
2:nB:65:ILE:HD12	2:nE:203:VAL:HG13	1.99	0.45
2:nN:226:LEU:HD23	2:nN:273:LYS:HE3	1.98	0.45
2:ob:43:ALA:HB2	2:ob:209:TYR:OH	2.15	0.45
2:ob:182:LEU:HG	2:ob:182:LEU:O	2.16	0.45
2:of:30:THR:CG2	2:of:298:LEU:HD13	2.46	0.45
1:oo:62:THR:HG22	1:oo:63:VAL:N	2.31	0.45
1:oz:63:VAL:HG23	1:oz:99:LEU:CD1	2.42	0.45
1:oB:67:CYS:HA	1:oB:72:CYS:HA	1.98	0.45
2:oE:57:ARG:NH2	2:oE:58:GLU:O	2.48	0.45
2:oJ:238:ASN:O	2:oJ:242:VAL:HG13	2.17	0.45
1:pe:62:THR:HG22	1:pe:63:VAL:N	2.32	0.45
2:pi:79:LEU:HD12	2:pi:79:LEU:C	2.42	0.45
1:pq:99:LEU:HD23	1:ps:60:ARG:CZ	2.46	0.45
2:pt:258:ASP:OD1	2:pt:260:ARG:NH1	2.50	0.45
2:pw:79:LEU:HD12	2:pw:79:LEU:C	2.42	0.45
2:pJ:264:LEU:HB2	2:pJ:295:VAL:HG11	1.98	0.45
2:pY:79:LEU:C	2:pY:79:LEU:HD12	2.42	0.45
3:qd:64:GLY:CA	4:qn:10:GLN:HE22	2.29	0.45
4:qn:48:GLU:HG2	4:qn:57:VAL:HG11	1.98	0.45
4:qn:89:VAL:HG22	4:qo:245:ASP:CB	2.40	0.45
4:qo:18:ILE:N	4:qo:184:THR:O	2.43	0.45
5:qx:252:LEU:CD2	6:qA:126:GLN:HG2	2.36	0.45
5:qF:109:LEU:O	5:qF:113:LEU:HD13	2.16	0.45
5:qF:236:LEU:HD21	5:qH:266:ILE:CD1	2.46	0.45
1:af:67:CYS:HA	1:af:72:CYS:HA	1.98	0.45
2:ai:80:PHE:HA	2:ak:59:TRP:HB3	1.99	0.45
1:ar:91:GLU:HB2	2:bN:4:ILE:CG2	2.46	0.45
2:aI:24:LEU:HD21	2:iX:257:LEU:HD22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aJ:264:LEU:HB2	2:aJ:295:VAL:HG11	1.98	0.45
1:aQ:99:LEU:HD23	1:ch:102:GLU:HB3	1.96	0.45
2:aV:61:GLY:CA	1:bg:103:ARG:HD2	2.40	0.45
2:aW:12:LEU:HD21	2:bp:14:THR:CG2	2.46	0.45
2:aX:23:ALA:C	2:aX:24:LEU:HD22	2.41	0.45
1:be:102:GLU:CD	1:kj:99:LEU:CA	2.87	0.45
1:be:102:GLU:OE2	1:kj:100:LYS:N	2.49	0.45
2:bl:80:PHE:HA	2:bn:59:TRP:HB3	1.99	0.45
1:bw:62:THR:HG22	1:bw:63:VAL:N	2.31	0.45
1:bG:99:LEU:HD21	1:gL:60:ARG:HH21	0.59	0.45
1:bl:91:GLU:HB2	2:hH:4:ILE:CG2	2.47	0.45
1:bJ:96:ASP:HB2	2:bM:64:VAL:HG13	1.99	0.45
2:bN:267:PRO:HD2	2:bN:270:LEU:HD12	1.98	0.45
1:bV:99:LEU:HD23	1:bX:60:ARG:CZ	2.46	0.45
1:bW:96:ASP:HB2	2:ca:64:VAL:HG13	1.99	0.45
2:bZ:67:ASP:HB2	2:ce:4:ILE:HD11	1.97	0.45
2:cc:60:ILE:CG2	2:cc:60:ILE:O	2.63	0.45
1:ch:100:LYS:N	1:jf:102:GLU:OE2	2.49	0.45
2:cp:79:LEU:C	2:cp:79:LEU:HD12	2.42	0.45
1:cx:91:GLU:HB2	2:pi:4:ILE:CG2	2.47	0.45
2:cA:226:LEU:HD23	2:cA:273:LYS:HE3	1.98	0.45
2:cF:274:ALA:CB	2:cF:297:VAL:HG21	2.46	0.45
1:cM:96:ASP:HB2	2:cQ:64:VAL:HG13	1.98	0.45
2:cR:79:LEU:HD12	2:cR:79:LEU:C	2.42	0.45
1:cZ:91:GLU:HB2	2:eL:4:ILE:CG2	2.46	0.45
1:da:100:LYS:CE	1:fe:100:LYS:CB	2.92	0.45
2:dc:258:ASP:OD1	2:dc:260:ARG:NH1	2.50	0.45
2:de:179:LEU:HD22	2:de:209:TYR:HD2	1.82	0.45
2:dG:60:ILE:CG2	2:dG:60:ILE:O	2.64	0.45
1:dk:100:LYS:CB	1:km:100:LYS:CE	2.92	0.45
2:dq:237:VAL:HG12	2:dq:237:VAL:O	2.14	0.45
2:du:30:THR:CG2	2:du:298:LEU:HD13	2.46	0.45
2:dY:30:THR:CG2	2:dY:298:LEU:HD13	2.46	0.45
1:eb:100:LYS:N	1:ft:102:GLU:OE2	2.49	0.45
1:ec:63:VAL:HG23	1:ec:99:LEU:CD1	2.42	0.45
2:ew:179:LEU:HD22	2:ew:209:TYR:HD2	1.82	0.45
2:ex:79:LEU:HD12	2:ex:79:LEU:C	2.42	0.45
1:eV:62:THR:HG22	1:eV:63:VAL:N	2.31	0.45
2:eY:179:LEU:HD22	2:eY:209:TYR:HD2	1.82	0.45
1:fh:91:GLU:HB2	2:gF:4:ILE:CG2	2.46	0.45
2:fk:21:GLN:OE1	2:fk:21:GLN:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fl:141:HIS:CD2	2:fl:150:THR:HG1	2.31	0.45
2:fm:23:ALA:C	2:fm:24:LEU:HD22	2.41	0.45
2:fm:38:ILE:O	2:fm:38:ILE:HG13	2.15	0.45
2:fn:208:GLU:OE1	2:fn:210:ARG:NE	2.49	0.45
2:fq:166:PRO:HG3	2:fq:259:ILE:HG23	1.98	0.45
1:ft:100:LYS:N	1:nW:102:GLU:OE2	2.49	0.45
2:fy:182:LEU:HG	2:fy:182:LEU:O	2.16	0.45
2:fz:12:LEU:HD21	2:mn:14:THR:CG2	2.46	0.45
2:fz:57:ARG:NH2	2:fz:58:GLU:O	2.48	0.45
2:fA:86:VAL:O	2:fA:202:GLN:N	2.46	0.45
2:fB:79:LEU:HD12	2:fB:79:LEU:C	2.42	0.45
1:fJ:57:VAL:O	1:fJ:59:VAL:HG23	2.17	0.45
1:fJ:91:GLU:HB2	2:IW:4:ILE:CG2	2.47	0.45
2:FR:171:TYR:OH	2:FR:175:THR:OG1	2.12	0.45
2:fS:144:TYR:HH	2:fS:254:GLY:H	1.63	0.45
2:fS:238:ASN:O	2:fS:242:VAL:HG13	2.17	0.45
2:ga:258:ASP:OD1	2:ga:260:ARG:NH1	2.50	0.45
2:gc:280:VAL:O	2:gc:289:ASN:ND2	2.50	0.45
2:go:258:ASP:OD1	2:go:260:ARG:NH1	2.50	0.45
2:gp:57:ARG:NH2	2:gp:58:GLU:O	2.48	0.45
1:gZ:97:PRO:HD2	2:gH:65:ILE:O	2.16	0.45
1:gA:96:ASP:HB2	2:gE:64:VAL:HG13	1.99	0.45
2:gC:30:THR:HG23	2:gC:298:LEU:HD13	1.98	0.45
2:gE:280:VAL:O	2:gE:289:ASN:ND2	2.50	0.45
2:gG:174:ASP:OD1	2:gG:214:ARG:NH2	2.49	0.45
2:gI:238:ASN:O	2:gI:242:VAL:HG13	2.17	0.45
1:gN:103:ARG:HD2	2:ig:61:GLY:CA	2.40	0.45
2:gW:166:PRO:HG3	2:gW:259:ILE:HG23	1.98	0.45
1:gX:100:LYS:CE	1:lS:100:LYS:NZ	2.79	0.45
1:hd:67:CYS:HA	1:hd:72:CYS:HA	1.98	0.45
2:hh:79:LEU:C	2:hh:79:LEU:HD12	2.42	0.45
2:hk:228:ALA:HB1	2:hk:283:LEU:HG	1.97	0.45
2:hs:30:THR:HG23	2:hs:298:LEU:HD13	1.98	0.45
2:hu:79:LEU:C	2:hu:79:LEU:HD12	2.42	0.45
1:hy:100:LYS:CE	1:hE:100:LYS:NZ	2.79	0.45
2:hF:9:ILE:HD12	2:hF:12:LEU:HG	1.99	0.45
2:hJ:89:THR:N	2:hJ:200:ASP:OD2	2.36	0.45
1:hR:67:CYS:HA	1:hR:72:CYS:HA	1.98	0.45
2:hV:208:GLU:OE1	2:hV:210:ARG:NE	2.49	0.45
2:hW:174:ASP:OD1	2:hW:214:ARG:NH2	2.49	0.45
2:iw:23:ALA:C	2:iw:24:LEU:HD22	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iy:85:GLY:O	2:lt:2:ALA:N	2.48	0.45
2:iI:9:ILE:HD12	2:iI:12:LEU:HG	1.99	0.45
2:iI:258:ASP:OD1	2:iI:260:ARG:NH1	2.50	0.45
2:iK:179:LEU:HD22	2:iK:209:TYR:HD2	1.82	0.45
2:iM:60:ILE:CG2	2:iM:60:ILE:O	2.64	0.45
2:iW:226:LEU:HD23	2:iW:273:LYS:HE3	1.98	0.45
1:jh:97:PRO:HD2	2:jp:65:ILE:O	2.16	0.45
2:jm:80:PHE:HA	2:jo:59:TRP:HB3	1.99	0.45
2:jm:117:LEU:HD21	2:jm:211:TYR:CA	2.46	0.45
2:jn:79:LEU:HD12	2:jn:79:LEU:C	2.42	0.45
1:jv:97:PRO:HD2	2:jD:65:ILE:O	2.16	0.45
1:jw:96:ASP:HB2	2:jA:64:VAL:HG13	1.98	0.45
1:jx:99:LEU:HD23	1:lk:102:GLU:CG	2.18	0.45
2:jE:238:ASN:O	2:jE:242:VAL:HG13	2.16	0.45
1:jH:102:GLU:HB3	1:ok:99:LEU:HD23	1.96	0.45
2:jM:30:THR:HG23	2:jM:298:LEU:HD13	1.98	0.45
2:jQ:174:ASP:OD1	2:jQ:214:ARG:NH2	2.49	0.45
2:ka:21:GLN:OE1	2:ka:21:GLN:HA	2.16	0.45
2:kc:280:VAL:O	2:kc:289:ASN:ND2	2.50	0.45
2:kg:166:PRO:HG3	2:kg:259:ILE:HG23	1.98	0.45
1:kl:98:LEU:HD12	2:ks:63:ARG:O	2.15	0.45
2:kq:208:GLU:OE1	2:kq:210:ARG:NE	2.49	0.45
2:kt:238:ASN:O	2:kt:242:VAL:HG13	2.17	0.45
1:ky:57:VAL:O	1:ky:59:VAL:HG23	2.17	0.45
2:kP:43:ALA:HB2	2:kP:209:TYR:OH	2.15	0.45
2:kR:63:ARG:HE	2:kU:205:MET:CE	2.30	0.45
2:kS:4:ILE:CG2	1:mU:91:GLU:HB2	2.47	0.45
2:lg:267:PRO:HD2	2:lg:270:LEU:HD12	1.98	0.45
2:lr:226:LEU:HD23	2:lr:273:LYS:HE3	1.99	0.45
2:IV:280:VAL:O	2:IV:289:ASN:ND2	2.50	0.45
2:mh:9:ILE:HD12	2:mh:12:LEU:HG	1.99	0.45
2:mB:238:ASN:O	2:mB:242:VAL:HG13	2.17	0.45
1:mG:99:LEU:HD23	1:mI:60:ARG:CZ	2.46	0.45
1:mH:96:ASP:HB2	2:mL:64:VAL:HG13	1.99	0.45
2:mJ:30:THR:HG23	2:mJ:298:LEU:HD13	1.98	0.45
2:mJ:182:LEU:HG	2:mJ:182:LEU:O	2.16	0.45
2:mJ:258:ASP:OD1	2:mJ:260:ARG:NH1	2.50	0.45
2:mN:174:ASP:OD1	2:mN:214:ARG:NH2	2.49	0.45
2:mZ:280:VAL:O	2:mZ:289:ASN:ND2	2.50	0.45
2:na:83:THR:HA	2:na:205:MET:HG2	1.97	0.45
2:nz:21:GLN:OE1	2:nz:21:GLN:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nN:30:THR:HG23	2:nN:298:LEU:HD13	1.98	0.45
2:nQ:4:ILE:CG2	1:nY:91:GLU:HB2	2.46	0.45
2:oh:238:ASN:O	2:oh:242:VAL:HG13	2.17	0.45
1:ok:102:GLU:OE2	1:om:100:LYS:N	2.49	0.45
1:om:99:LEU:HD23	1:oo:60:ARG:CZ	2.46	0.45
1:on:96:ASP:HB2	2:or:64:VAL:HG13	1.99	0.45
2:op:226:LEU:HD23	2:op:273:LYS:HE3	1.98	0.45
2:op:258:ASP:OD1	2:op:260:ARG:NH1	2.50	0.45
2:ov:14:THR:CG2	2:pW:12:LEU:HD21	2.46	0.45
2:oH:60:ILE:CG2	2:oH:60:ILE:O	2.64	0.45
1:pc:97:PRO:HD2	2:pk:65:ILE:O	2.16	0.45
2:pu:141:HIS:CD2	2:pu:150:THR:HG1	2.32	0.45
2:pv:23:ALA:C	2:pv:24:LEU:HD22	2.41	0.45
2:pw:208:GLU:OE1	2:pw:210:ARG:NE	2.49	0.45
2:pz:30:THR:CG2	2:pz:298:LEU:HD13	2.45	0.45
2:pJ:80:PHE:HA	2:pL:59:TRP:HB3	1.99	0.45
2:pJ:280:VAL:O	2:pJ:289:ASN:ND2	2.50	0.45
1:pS:97:PRO:HD2	2:qa:65:ILE:O	2.16	0.45
2:pV:226:LEU:HD23	2:pV:273:LYS:HE3	1.98	0.45
2:pY:208:GLU:OE1	2:pY:210:ARG:NE	2.49	0.45
3:qe:78:VAL:HB	3:qe:141:LEU:HD22	1.96	0.45
3:qf:63:GLN:CD	4:qk:220:SER:O	2.59	0.45
4:qm:85:TYR:O	4:qm:180:ALA:N	2.48	0.45
6:qE:133:ASP:OD1	6:qE:134:TRP:N	2.45	0.45
6:qI:112:LEU:HD23	6:qK:58:LEU:CD1	1.02	0.45
2:ag:258:ASP:OD1	2:ag:260:ARG:NH1	2.50	0.45
2:ai:280:VAL:O	2:ai:289:ASN:ND2	2.50	0.45
2:ak:174:ASP:OD1	2:ak:214:ARG:NH2	2.49	0.45
1:at:62:THR:HG22	1:at:63:VAL:N	2.31	0.45
1:at:67:CYS:HA	1:at:72:CYS:HA	1.97	0.45
2:av:80:PHE:HA	2:ax:59:TRP:HB3	1.99	0.45
2:aH:9:ILE:HD12	2:aH:12:LEU:HG	1.99	0.45
2:aK:79:LEU:HD12	2:aK:79:LEU:C	2.42	0.45
2:aX:80:PHE:HA	2:aZ:59:TRP:HB3	1.99	0.45
2:aZ:4:ILE:H	2:jo:69:ALA:HB2	1.81	0.45
2:bl:38:ILE:O	2:bl:38:ILE:HG13	2.15	0.45
1:bu:91:GLU:HB2	2:df:4:ILE:CG2	2.47	0.45
2:bx:258:ASP:OD1	2:bx:260:ARG:NH1	2.50	0.45
2:bz:179:LEU:HD22	2:bz:209:TYR:HD2	1.82	0.45
2:bD:238:ASN:O	2:bD:242:VAL:HG13	2.17	0.45
1:bJ:67:CYS:HA	1:bJ:72:CYS:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bL:182:LEU:HD21	5:qr:178:PRO:C	2.39	0.45
2:bQ:182:LEU:HD21	5:qp:176:ASN:OD1	2.17	0.45
1:bX:62:THR:HG22	1:bX:63:VAL:N	2.31	0.45
2:ca:23:ALA:C	2:ca:24:LEU:HD22	2.41	0.45
2:ca:280:VAL:O	2:ca:289:ASN:ND2	2.50	0.45
2:cc:4:ILE:H	2:fa:69:ALA:HB2	1.81	0.45
2:co:80:PHE:HA	2:cq:59:TRP:HB3	1.99	0.45
1:cz:62:THR:HG22	1:cz:63:VAL:N	2.31	0.45
1:cz:100:LYS:NZ	1:pm:100:LYS:CE	2.79	0.45
2:cA:9:ILE:HD12	2:cA:12:LEU:HG	1.99	0.45
2:cD:267:PRO:HD2	2:cD:270:LEU:HD12	1.98	0.45
2:cQ:80:PHE:HA	2:cS:59:TRP:HB3	1.99	0.45
1:da:96:ASP:HB2	2:de:64:VAL:HG13	1.98	0.45
1:db:100:LYS:NZ	1:eP:100:LYS:CE	2.79	0.45
2:de:65:ILE:HD12	2:dh:203:VAL:HG13	1.99	0.45
1:dn:97:PRO:HD2	2:dv:65:ILE:O	2.16	0.45
2:ds:63:ARG:HE	2:dv:205:MET:CE	2.30	0.45
1:dD:100:LYS:NZ	1:fd:100:LYS:CE	2.79	0.45
1:dQ:96:ASP:HB2	2:dU:64:VAL:HG13	1.98	0.45
1:ed:99:LEU:HD23	1:ef:60:ARG:CZ	2.46	0.45
2:eg:61:GLY:CA	1:er:103:ARG:HD2	2.40	0.45
2:ew:280:VAL:O	2:ew:289:ASN:ND2	2.50	0.45
2:eA:238:ASN:O	2:eA:242:VAL:HG13	2.17	0.45
2:eO:166:PRO:HG3	2:eO:259:ILE:HG23	1.98	0.45
1:eT:57:VAL:O	1:eT:59:VAL:HG23	2.17	0.45
1:eU:67:CYS:HA	1:eU:72:CYS:HA	1.98	0.45
1:eV:67:CYS:HA	1:eV:72:CYS:HA	1.98	0.45
2:fk:226:LEU:HD23	2:fk:273:LYS:HE3	1.99	0.45
2:fm:280:VAL:O	2:fm:289:ASN:ND2	2.50	0.45
2:fo:4:ILE:H	2:ik:69:ALA:HB2	1.81	0.45
1:fv:63:VAL:HG12	1:fv:99:LEU:HD13	1.97	0.45
1:fv:91:GLU:HB2	2:no:4:ILE:CG2	2.47	0.45
2:fA:23:ALA:C	2:fA:24:LEU:HD22	2.41	0.45
2:fB:208:GLU:OE1	2:fB:210:ARG:NE	2.49	0.45
2:fQ:4:ILE:H	2:mz:69:ALA:HB2	1.81	0.45
2:fQ:69:ALA:HB2	2:hi:4:ILE:H	1.81	0.45
2:ga:9:ILE:HD12	2:ga:12:LEU:HG	1.99	0.45
2:ge:4:ILE:H	2:nD:69:ALA:HB2	1.81	0.45
2:gE:117:LEU:HD21	2:gE:211:TYR:CA	2.45	0.45
2:gF:267:PRO:HD2	2:gF:270:LEU:HD12	1.98	0.45
1:gN:99:LEU:HD23	1:gP:60:ARG:CZ	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gZ:99:LEU:CA	1:mq:102:GLU:OE1	2.28	0.45
1:hb:97:PRO:HD2	2:hj:65:ILE:O	2.16	0.45
1:hb:98:LEU:HD12	2:hj:63:ARG:O	2.16	0.45
2:hF:12:LEU:HD21	2:kH:14:THR:CG2	2.46	0.45
2:hG:65:ILE:HD12	2:hj:203:VAL:HG13	1.99	0.45
2:hG:80:PHE:HA	2:hi:59:TRP:HB3	1.99	0.45
1:hC:99:LEU:HD23	1:hE:60:ARG:CZ	2.46	0.45
2:hF:258:ASP:OD1	2:hF:260:ARG:NH1	2.50	0.45
2:hG:280:VAL:O	2:hG:289:ASN:ND2	2.50	0.45
2:hS:258:ASP:OD1	2:hS:260:ARG:NH1	2.50	0.45
1:ie:67:CYS:HA	1:ie:72:CYS:HA	1.98	0.45
2:ih:75:ILE:HG22	2:ih:76:THR:N	2.30	0.45
2:ii:280:VAL:O	2:ii:289:ASN:ND2	2.50	0.45
1:ip:60:ARG:HH21	1:lm:99:LEU:HD21	0.59	0.45
1:is:96:ASP:HB2	2:iw:64:VAL:HG13	1.99	0.45
2:iu:43:ALA:HB2	2:iu:209:TYR:OH	2.15	0.45
2:ix:208:GLU:OE1	2:ix:210:ARG:NE	2.49	0.45
2:iA:238:ASN:O	2:iA:242:VAL:HG13	2.17	0.45
1:iG:67:CYS:HA	1:iG:72:CYS:HA	1.98	0.45
2:iK:117:LEU:HD21	2:iK:211:TYR:CA	2.45	0.45
2:iL:79:LEU:HD12	2:iL:79:LEU:C	2.42	0.45
2:iY:264:LEU:HB2	2:iY:295:VAL:HG11	1.97	0.45
2:ja:57:ARG:HD3	2:ja:58:GLU:N	2.32	0.45
1:jj:67:CYS:HA	1:jj:72:CYS:HA	1.98	0.45
1:js:102:GLU:OE1	1:mT:99:LEU:CB	2.62	0.45
1:jt:100:LYS:N	1:mS:102:GLU:OE2	2.49	0.45
2:jM:258:ASP:OD1	2:jM:260:ARG:NH1	2.50	0.45
2:jO:80:PHE:HA	2:jQ:59:TRP:HB3	1.99	0.45
2:ka:30:THR:HG23	2:ka:298:LEU:HD13	1.98	0.45
1:km:63:VAL:HG13	1:km:74:ASP:HB3	1.99	0.45
1:ky:99:LEU:HD23	1:kA:60:ARG:CZ	2.46	0.45
1:kz:67:CYS:HA	1:kz:72:CYS:HA	1.98	0.45
2:kB:258:ASP:OD1	2:kB:260:ARG:NH1	2.50	0.45
2:kD:264:LEU:HB2	2:kD:295:VAL:HG11	1.97	0.45
1:kM:99:LEU:HD23	1:kO:60:ARG:CZ	2.46	0.45
2:kR:179:LEU:HD22	2:kR:209:TYR:HD2	1.82	0.45
2:kS:267:PRO:HD2	2:kS:270:LEU:HD12	1.98	0.45
1:la:57:VAL:O	1:la:59:VAL:HG23	2.17	0.45
1:la:98:LEU:HD12	2:li:63:ARG:O	2.15	0.45
2:ld:226:LEU:HD23	2:ld:273:LYS:HE3	1.98	0.45
2:lf:179:LEU:HD22	2:lf:209:TYR:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lo:57:VAL:O	1:lo:59:VAL:HG23	2.17	0.45
2:lu:79:LEU:HD12	2:lu:79:LEU:C	2.42	0.45
1:lC:91:GLU:HB2	2:na:4:ILE:CG2	2.46	0.45
1:lE:100:LYS:HZ3	1:ne:100:LYS:HD3	1.76	0.45
2:lF:9:ILE:HD12	2:lF:12:LEU:HG	1.99	0.45
2:lL:185:GLN:O	2:lL:205:MET:N	2.43	0.45
1:lR:96:ASP:HB2	2:lV:64:VAL:HG13	1.98	0.45
2:lV:38:ILE:HG13	2:lV:38:ILE:O	2.15	0.45
2:lW:79:LEU:HD12	2:lW:79:LEU:C	2.42	0.45
2:lZ:238:ASN:O	2:lZ:242:VAL:HG13	2.17	0.45
2:mh:258:ASP:OD1	2:mh:260:ARG:NH1	2.50	0.45
1:mG:97:PRO:HD2	2:mO:65:ILE:O	2.16	0.45
1:mI:62:THR:HG22	1:mI:63:VAL:N	2.32	0.45
1:mI:67:CYS:HA	1:mI:72:CYS:HA	1.98	0.45
2:mX:21:GLN:OE1	2:mX:21:GLN:HA	2.16	0.45
2:mX:182:LEU:HG	2:mX:182:LEU:O	2.16	0.45
2:mZ:179:LEU:HD22	2:mZ:209:TYR:HD2	1.82	0.45
2:na:79:LEU:C	2:na:79:LEU:HD12	2.42	0.45
1:nk:62:THR:HG22	1:nk:63:VAL:N	2.31	0.45
1:nw:97:PRO:HD2	2:nE:65:ILE:O	2.16	0.45
2:nD:60:ILE:HG23	2:nD:60:ILE:O	2.15	0.45
2:nE:274:ALA:CB	2:nE:297:VAL:HG21	2.46	0.45
2:nF:238:ASN:O	2:nF:242:VAL:HG13	2.17	0.45
2:nN:21:GLN:OE1	2:nN:21:GLN:HA	2.16	0.45
2:nT:166:PRO:HG3	2:nT:259:ILE:HG23	1.98	0.45
1:nZ:67:CYS:HA	1:nZ:72:CYS:HA	1.98	0.45
2:od:280:VAL:O	2:od:289:ASN:ND2	2.50	0.45
2:oe:79:LEU:HD12	2:oe:79:LEU:C	2.42	0.45
2:os:79:LEU:HD12	2:os:79:LEU:C	2.42	0.45
1:oA:99:LEU:HD23	1:oC:60:ARG:CZ	2.46	0.45
2:oF:23:ALA:C	2:oF:24:LEU:HD22	2.41	0.45
2:oF:280:VAL:O	2:oF:289:ASN:ND2	2.50	0.45
2:oR:21:GLN:HA	2:oR:21:GLN:OE1	2.16	0.45
2:oR:258:ASP:OD1	2:oR:260:ARG:NH1	2.50	0.45
2:oU:208:GLU:OE1	2:oU:210:ARG:NE	2.49	0.45
2:oU:267:PRO:HD2	2:oU:270:LEU:HD12	1.98	0.45
1:pc:57:VAL:O	1:pc:59:VAL:HG23	2.17	0.45
2:pt:30:THR:HG23	2:pt:298:LEU:HD13	1.98	0.45
2:pt:182:LEU:HG	2:pt:182:LEU:O	2.16	0.45
2:pu:12:LEU:HD21	2:pN:14:THR:CG2	2.46	0.45
2:pW:57:ARG:NH2	2:pW:58:GLU:O	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pX:23:ALA:C	2:pX:24:LEU:HD22	2.41	0.45
3:qf:66:GLN:CG	4:ql:8:TYR:O	2.65	0.45
3:qg:28:VAL:O	3:qg:28:VAL:HG12	2.17	0.45
3:qg:67:ARG:CB	4:qk:194:LEU:HD11	2.46	0.45
3:qh:67:ARG:CB	4:qj:194:LEU:HD13	2.43	0.45
3:qi:118:VAL:HG22	3:qi:118:VAL:O	2.16	0.45
4:qk:85:TYR:O	4:qk:180:ALA:N	2.48	0.45
4:qo:83:THR:HG21	4:qo:228:MET:CE	2.46	0.45
5:qF:380:MET:SD	5:qF:384:ILE:CD1	3.05	0.45
1:ab:99:LEU:HD23	1:ng:102:GLU:HB3	1.96	0.45
2:ag:182:LEU:HG	2:ag:182:LEU:O	2.16	0.45
1:as:96:ASP:HB2	2:av:64:VAL:HG13	1.98	0.45
2:au:258:ASP:OD1	2:au:260:ARG:NH1	2.50	0.45
2:av:23:ALA:C	2:av:24:LEU:HD22	2.41	0.45
2:aw:267:PRO:HD2	2:aw:270:LEU:HD12	1.98	0.45
2:ax:4:ILE:H	2:du:69:ALA:HB2	1.81	0.45
2:ax:226:LEU:HD23	2:ax:227:ALA:N	2.32	0.45
2:aH:62:GLN:OE1	1:iT:102:GLU:CD	2.53	0.45
2:aN:166:PRO:HG3	2:aN:259:ILE:HG23	1.98	0.45
1:aU:100:LYS:NZ	1:iP:100:LYS:CE	2.79	0.45
2:aX:65:ILE:HD12	2:ba:203:VAL:HG13	1.99	0.45
2:aY:4:ILE:CG2	1:bg:91:GLU:HB2	2.47	0.45
2:aY:37:VAL:O	2:aY:37:VAL:HG13	2.17	0.45
1:bg:97:PRO:HD2	2:bo:65:ILE:O	2.16	0.45
2:bj:226:LEU:HD23	2:bj:273:LYS:HE3	1.98	0.45
2:by:63:ARG:NE	2:dd:205:MET:CE	2.74	0.45
2:bz:23:ALA:C	2:bz:24:LEU:HD22	2.41	0.45
2:bL:21:GLN:HA	2:bL:21:GLN:OE1	2.16	0.45
2:bL:226:LEU:HD23	2:bL:273:LYS:HE3	1.98	0.45
1:cl:100:LYS:NZ	1:iB:100:LYS:CE	2.79	0.45
2:cm:9:ILE:HD12	2:cm:12:LEU:HG	1.99	0.45
2:cm:226:LEU:HD23	2:cm:273:LYS:HE3	1.98	0.45
2:co:63:ARG:HE	2:cr:205:MET:CE	2.30	0.45
2:co:179:LEU:HD22	2:co:209:TYR:HD2	1.82	0.45
1:cy:67:CYS:HA	1:cy:72:CYS:HA	1.98	0.45
2:cC:264:LEU:HB2	2:cC:295:VAL:HG11	1.97	0.45
2:cC:291:ASN:C	2:cC:294:LEU:HD22	2.42	0.45
2:cG:238:ASN:O	2:cG:242:VAL:HG13	2.17	0.45
1:cM:67:CYS:HA	1:cM:72:CYS:HA	1.98	0.45
2:cO:61:GLY:CA	1:eT:103:ARG:HD2	2.40	0.45
2:cR:234:LEU:HA	2:cR:238:ASN:OD1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cS:4:ILE:H	2:iM:69:ALA:HB2	1.81	0.45
2:cU:166:PRO:HG3	2:cU:259:ILE:HG23	1.98	0.45
2:cU:238:ASN:O	2:cU:242:VAL:HG13	2.17	0.45
2:dd:282:ARG:NH2	2:eJ:282:ARG:HH11	1.93	0.45
2:df:79:LEU:C	2:df:79:LEU:HD12	2.42	0.45
1:dp:67:CYS:HA	1:dp:72:CYS:HA	1.97	0.45
1:dp:103:ARG:O	2:dv:62:GLN:NE2	2.50	0.45
2:dt:37:VAL:HG13	2:dt:37:VAL:O	2.17	0.45
2:dt:208:GLU:OE1	2:dt:210:ARG:NE	2.49	0.45
1:dB:91:GLU:HB2	2:eZ:4:ILE:CG2	2.46	0.45
1:dC:96:ASP:HB2	2:dG:64:VAL:HG13	1.98	0.45
2:dG:65:ILE:HD12	2:dJ:203:VAL:HG13	1.99	0.45
2:dG:280:VAL:O	2:dG:289:ASN:ND2	2.50	0.45
2:dH:4:ILE:CG2	1:pc:91:GLU:HB2	2.47	0.45
2:dI:226:LEU:HD23	2:dI:227:ALA:N	2.32	0.45
1:dL:57:VAL:HB	1:dL:59:VAL:HG23	1.99	0.45
1:dL:100:LYS:CE	1:pe:100:LYS:NZ	2.79	0.45
2:dS:30:THR:HG23	2:dS:298:LEU:HD13	1.98	0.45
2:dU:80:PHE:HA	2:dW:59:TRP:HB3	1.99	0.45
2:dU:291:ASN:C	2:dU:294:LEU:HD22	2.42	0.45
2:dY:14:THR:CG2	2:oS:12:LEU:HD21	2.46	0.45
2:dY:238:ASN:O	2:dY:242:VAL:HG13	2.17	0.45
1:ee:67:CYS:HA	1:ee:72:CYS:HA	1.98	0.45
2:ei:23:ALA:C	2:ei:24:LEU:HD22	2.41	0.45
2:ei:291:ASN:C	2:ei:294:LEU:HD22	2.42	0.45
2:em:14:THR:CG2	2:nA:12:LEU:HD21	2.46	0.45
1:er:97:PRO:HD2	2:ez:65:ILE:O	2.16	0.45
1:eF:102:GLU:HG2	2:go:62:GLN:OE1	2.02	0.45
2:eK:80:PHE:HA	2:eM:59:TRP:HB3	1.99	0.45
2:eO:14:THR:CG2	2:gp:12:LEU:HD21	2.46	0.45
1:eP:59:VAL:HG12	1:eP:61:ALA:N	2.29	0.45
2:eW:258:ASP:OD1	2:eW:260:ARG:NH1	2.50	0.45
1:fh:63:VAL:HG12	1:fh:99:LEU:HD13	1.97	0.45
2:fk:9:ILE:HD12	2:fk:12:LEU:HG	1.99	0.45
2:fm:96:LEU:HB2	2:fm:98:VAL:HG22	1.99	0.45
2:fm:179:LEU:HD22	2:fm:209:TYR:HD2	1.82	0.45
2:fn:4:ILE:CG2	1:nw:91:GLU:HB2	2.47	0.45
2:fo:60:ILE:CG2	2:fo:60:ILE:O	2.64	0.45
2:fo:226:LEU:HD23	2:fo:227:ALA:N	2.32	0.45
1:fv:97:PRO:HD2	2:fD:65:ILE:O	2.16	0.45
1:fv:99:LEU:HD23	1:fx:60:ARG:CZ	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fA:63:ARG:HE	2:fD:205:MET:CE	2.30	0.45
2:fA:117:LEU:HD21	2:fA:211:TYR:CA	2.46	0.45
2:fE:166:PRO:HG3	2:fE:259:ILE:HG23	1.98	0.45
1:fL:103:ARG:O	2:fR:62:GLN:NE2	2.50	0.45
2:fQ:85:GLY:O	2:mx:2:ALA:N	2.48	0.45
2:gc:65:ILE:HD12	2:gf:203:VAL:HG13	1.99	0.45
2:gd:234:LEU:HA	2:gd:238:ASN:OD1	2.17	0.45
1:gk:99:LEU:CB	1:gK:102:GLU:OE1	2.62	0.45
1:gl:57:VAL:O	1:gl:59:VAL:HG23	2.17	0.45
2:gq:23:ALA:C	2:gq:24:LEU:HD22	2.41	0.45
2:gr:79:LEU:HD12	2:gr:79:LEU:C	2.42	0.45
2:gC:9:ILE:HD12	2:gC:12:LEU:HG	1.99	0.45
1:gN:91:GLU:HB2	2:ij:4:ILE:CG2	2.46	0.45
1:gO:96:ASP:HB2	2:gS:64:VAL:HG13	1.99	0.45
1:gP:99:LEU:HD23	1:in:102:GLU:CG	2.18	0.45
2:gS:23:ALA:C	2:gS:24:LEU:HD22	2.41	0.45
2:gS:280:VAL:O	2:gS:289:ASN:ND2	2.50	0.45
2:gT:208:GLU:OE1	2:gT:210:ARG:NE	2.49	0.45
2:gT:234:LEU:HA	2:gT:238:ASN:OD1	2.17	0.45
2:gU:226:LEU:HD23	2:gU:227:ALA:N	2.32	0.45
1:gZ:100:LYS:N	1:mq:102:GLU:OE2	2.49	0.45
2:hh:234:LEU:HA	2:hh:238:ASN:OD1	2.17	0.45
2:hi:226:LEU:HD23	2:hi:227:ALA:N	2.32	0.45
2:hj:274:ALA:CB	2:hj:297:VAL:HG21	2.46	0.45
2:hs:104:GLN:NE2	5:qB:179:ALA:HB2	2.26	0.45
2:hu:4:ILE:CG2	1:hC:91:GLU:HB2	2.47	0.45
2:hu:37:VAL:O	2:hu:37:VAL:HG13	2.17	0.45
1:hC:97:PRO:HD2	2:hJ:65:ILE:O	2.16	0.45
2:hG:179:LEU:HD22	2:hG:209:TYR:HD2	1.82	0.45
1:hP:99:LEU:HD23	1:hR:60:ARG:CZ	2.46	0.45
2:hS:9:ILE:HD12	2:hS:12:LEU:HG	1.99	0.45
2:hW:226:LEU:HD23	2:hW:227:ALA:N	2.32	0.45
1:if:62:THR:HG22	1:if:63:VAL:N	2.31	0.45
2:ii:179:LEU:HD22	2:ii:209:TYR:HD2	1.82	0.45
2:ij:79:LEU:C	2:ij:79:LEU:HD12	2.42	0.45
2:ik:60:ILE:HG23	2:ik:60:ILE:O	2.14	0.45
1:ip:102:GLU:OE2	1:lm:100:LYS:N	2.49	0.45
2:iw:280:VAL:O	2:iw:289:ASN:ND2	2.50	0.45
2:ix:79:LEU:HD12	2:ix:79:LEU:C	2.42	0.45
1:iG:63:VAL:HG13	1:iG:74:ASP:HB3	1.99	0.45
2:iK:23:ALA:C	2:iK:24:LEU:HD22	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iK:63:ARG:HE	2:iN:205:MET:CE	2.30	0.45
2:iY:179:LEU:HD22	2:iY:209:TYR:HD2	1.82	0.45
2:ja:30:THR:CG2	2:ja:298:LEU:HD13	2.46	0.45
1:jd:57:VAL:HB	1:jd:59:VAL:HG23	1.99	0.45
2:jk:21:GLN:OE1	2:jk:21:GLN:HA	2.16	0.45
2:jk:258:ASP:OD1	2:jk:260:ARG:NH1	2.50	0.45
2:jn:267:PRO:HD2	2:jn:270:LEU:HD12	1.98	0.45
2:jy:258:ASP:OD1	2:jy:260:ARG:NH1	2.50	0.45
2:jB:4:ILE:CG2	1:pS:91:GLU:HB2	2.47	0.45
2:jB:79:LEU:HD12	2:jB:79:LEU:C	2.42	0.45
2:jD:280:VAL:O	2:jD:289:ASN:ND2	2.44	0.45
1:jJ:57:VAL:O	1:jJ:59:VAL:HG23	2.17	0.45
1:jL:67:CYS:HA	1:jL:72:CYS:HA	1.98	0.45
2:jQ:4:ILE:H	2:ot:69:ALA:HB2	1.81	0.45
2:jQ:60:ILE:CG2	2:jQ:60:ILE:O	2.64	0.45
2:jQ:226:LEU:HD23	2:jQ:227:ALA:N	2.32	0.45
1:jZ:103:ARG:O	2:kf:62:GLN:NE2	2.50	0.45
1:kl:57:VAL:O	1:kl:59:VAL:HG23	2.17	0.45
1:kn:62:THR:HG22	1:kn:63:VAL:N	2.31	0.45
1:kn:103:ARG:O	2:ks:62:GLN:NE2	2.50	0.45
2:ko:41:THR:CG2	5:qF:51:GLU:OE1	2.60	0.45
2:ko:182:LEU:HG	2:ko:182:LEU:O	2.16	0.45
2:kp:23:ALA:C	2:kp:24:LEU:HD22	2.41	0.45
2:kp:80:PHE:HA	2:kr:59:TRP:HB3	1.99	0.45
2:kr:226:LEU:HD23	2:kr:227:ALA:N	2.32	0.45
1:kl:57:VAL:HB	1:kl:59:VAL:HG23	1.99	0.45
2:kP:30:THR:HG23	2:kP:298:LEU:HD13	1.98	0.45
2:kP:61:GLY:CA	1:mU:103:ARG:HD2	2.40	0.45
2:kS:208:GLU:OE1	2:kS:210:ARG:NE	2.49	0.45
2:kT:30:THR:CG2	2:kT:298:LEU:HD13	2.46	0.45
2:kT:60:ILE:CG2	2:kT:60:ILE:O	2.64	0.45
2:lf:280:VAL:O	2:lf:289:ASN:ND2	2.50	0.45
1:lm:102:GLU:HB3	1:pQ:99:LEU:HD23	1.96	0.45
1:ln:63:VAL:HG23	1:ln:99:LEU:CD1	2.42	0.45
2:lu:234:LEU:HA	2:lu:238:ASN:OD1	2.17	0.45
1:ly:57:VAL:HB	1:ly:59:VAL:HG23	1.99	0.45
2:IH:96:LEU:HB2	2:IH:98:VAL:HG22	1.99	0.45
2:IH:291:ASN:C	2:IH:294:LEU:HD22	2.42	0.45
2:IL:238:ASN:O	2:IL:242:VAL:HG13	2.17	0.45
2:IT:9:ILE:HD12	2:IT:12:LEU:HG	1.99	0.45
2:IW:83:THR:HA	2:IW:205:MET:HG2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mg:103:ARG:O	2:mm:62:GLN:NE2	2.50	0.45
2:mi:12:LEU:HD21	2:mB:14:THR:CG2	2.46	0.45
2:mk:79:LEU:C	2:mk:79:LEU:HD12	2.42	0.45
2:mk:208:GLU:OE1	2:mk:210:ARG:NE	2.49	0.45
1:mu:67:CYS:HA	1:mu:72:CYS:HA	1.97	0.45
2:my:234:LEU:HA	2:my:238:ASN:OD1	2.17	0.45
1:mE:102:GLU:OE2	1:ng:100:LYS:N	2.49	0.45
2:mJ:226:LEU:HD23	2:mJ:273:LYS:HE3	1.98	0.45
2:mL:80:PHE:HA	2:mN:59:TRP:HB3	1.99	0.45
2:mN:4:ILE:H	2:np:69:ALA:HB2	1.81	0.45
2:mX:226:LEU:HD23	2:mX:273:LYS:HE3	1.98	0.45
2:na:234:LEU:HA	2:na:238:ASN:OD1	2.17	0.45
2:nd:238:ASN:O	2:nd:242:VAL:HG13	2.17	0.45
2:nz:258:ASP:OD1	2:nz:260:ARG:NH1	2.50	0.45
2:nB:63:ARG:HE	2:nE:205:MET:CE	2.30	0.45
1:nK:57:VAL:O	1:nK:59:VAL:HG23	2.17	0.45
2:nP:80:PHE:HA	2:nR:59:TRP:HB3	1.99	0.45
2:nP:291:ASN:C	2:nP:294:LEU:HD22	2.42	0.45
1:oa:67:CYS:HA	1:oa:72:CYS:HA	1.98	0.45
1:oo:103:ARG:O	2:ou:62:GLN:NE2	2.50	0.45
2:og:63:ARG:NE	2:pW:205:MET:CE	2.74	0.45
2:or:38:ILE:O	2:or:38:ILE:HG13	2.15	0.45
2:or:96:LEU:HB2	2:or:98:VAL:HG22	1.99	0.45
2:oF:63:ARG:HE	2:oI:205:MET:CE	2.30	0.45
2:oG:208:GLU:OE1	2:oG:210:ARG:NE	2.49	0.45
1:oP:96:ASP:HB2	2:oT:64:VAL:HG13	1.98	0.45
1:oQ:62:THR:HG22	1:oQ:63:VAL:N	2.31	0.45
1:oQ:67:CYS:HA	1:oQ:72:CYS:HA	1.97	0.45
2:oT:179:LEU:HD22	2:oT:209:TYR:HD2	1.82	0.45
2:ph:179:LEU:HD22	2:ph:209:TYR:HD2	1.82	0.45
2:pL:30:THR:CG2	2:pL:298:LEU:HD13	2.46	0.45
2:pX:80:PHE:HA	2:pZ:59:TRP:HB3	1.99	0.45
2:pY:234:LEU:HA	2:pY:238:ASN:OD1	2.17	0.45
3:qe:70:GLN:NE2	3:qe:72:VAL:HG22	2.31	0.45
3:qi:28:VAL:O	3:qi:28:VAL:HG12	2.17	0.45
3:qi:55:GLU:OE1	4:qo:223:ASN:CB	2.65	0.45
4:qj:238:THR:HG22	4:qk:50:TYR:HH	1.76	0.45
4:qn:83:THR:HG21	4:qn:228:MET:CE	2.46	0.45
5:qp:266:ILE:CD1	5:qL:236:LEU:HD21	2.46	0.45
5:qt:109:LEU:O	5:qt:113:LEU:HD13	2.16	0.45
5:qD:380:MET:SD	5:qD:384:ILE:CD1	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qH:380:MET:SD	5:qH:384:ILE:CD1	3.05	0.45
1:ae:67:CYS:HA	1:ae:72:CYS:HA	1.98	0.45
1:ar:99:LEU:HD23	1:at:60:ARG:CZ	2.46	0.45
1:at:100:LYS:NZ	1:bR:100:LYS:CE	2.79	0.45
2:aw:185:GLN:OE1	2:aw:205:MET:HE3	2.17	0.45
1:aE:97:PRO:HD2	2:aM:65:ILE:O	2.16	0.45
1:aF:67:CYS:HA	1:aF:72:CYS:HA	1.98	0.45
1:aG:100:LYS:NZ	1:kh:100:LYS:CE	2.79	0.45
2:aJ:291:ASN:C	2:aJ:294:LEU:HD22	2.42	0.45
2:aL:57:ARG:HD3	2:aL:58:GLU:N	2.32	0.45
2:aM:89:THR:N	2:aM:200:ASP:OD2	2.36	0.45
1:aO:100:LYS:CE	1:iV:100:LYS:NZ	2.79	0.45
2:aX:61:GLY:CA	1:iE:103:ARG:NH1	2.70	0.45
2:aY:79:LEU:HD12	2:aY:79:LEU:C	2.42	0.45
2:aY:234:LEU:HA	2:aY:238:ASN:OD1	2.17	0.45
2:bb:14:THR:CG2	2:iJ:12:LEU:HD21	2.46	0.45
1:be:102:GLU:HB3	1:kj:99:LEU:HD23	1.96	0.45
2:bl:179:LEU:HD22	2:bl:209:TYR:HD2	1.82	0.45
2:bl:280:VAL:O	2:bl:289:ASN:ND2	2.50	0.45
2:bm:79:LEU:HD12	2:bm:79:LEU:C	2.42	0.45
2:bB:57:ARG:HD3	2:bB:58:GLU:N	2.32	0.45
2:bC:89:THR:N	2:bC:200:ASP:OD2	2.36	0.45
1:bG:99:LEU:CA	1:gL:102:GLU:OE1	2.28	0.45
2:bM:80:PHE:HA	2:bO:59:TRP:HB3	1.99	0.45
2:bN:226:LEU:HD21	2:bN:273:LYS:HB3	1.99	0.45
2:bY:258:ASP:OD1	2:bY:260:ARG:NH1	2.50	0.45
2:cb:234:LEU:HA	2:cb:238:ASN:OD1	2.17	0.45
2:cc:226:LEU:HD23	2:cc:227:ALA:N	2.32	0.45
1:cj:99:LEU:HD23	1:cl:60:ARG:CZ	2.46	0.45
2:cD:226:LEU:HD21	2:cD:273:LYS:HB3	1.99	0.45
1:cH:57:VAL:HB	1:cH:59:VAL:HG23	1.99	0.45
1:cI:104:CYS:HA	2:pz:62:GLN:HE22	1.82	0.45
1:cJ:60:ARG:HH21	1:iD:99:LEU:HD21	0.59	0.45
2:cQ:291:ASN:C	2:cQ:294:LEU:HD22	2.42	0.45
1:cV:100:LYS:CE	1:eV:100:LYS:NZ	2.79	0.45
2:dg:69:ALA:HB2	2:gG:4:ILE:H	1.81	0.45
1:dj:57:VAL:HB	1:dj:59:VAL:HG23	1.99	0.45
1:dl:102:GLU:CD	1:hN:99:LEU:CA	2.87	0.45
2:dq:30:THR:HG23	2:dq:298:LEU:HD13	1.98	0.45
2:dt:185:GLN:NE2	2:hU:196:THR:OG1	2.50	0.45
1:dx:57:VAL:HB	1:dx:59:VAL:HG23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dD:103:ARG:O	2:dJ:62:GLN:NE2	2.50	0.45
2:dG:80:PHE:HA	2:dI:59:TRP:HB3	1.99	0.45
2:dH:226:LEU:HD21	2:dH:273:LYS:HB3	1.99	0.45
2:dK:14:THR:CG2	2:eX:12:LEU:HD21	2.46	0.45
1:dP:99:LEU:HD23	1:dR:60:ARG:CZ	2.46	0.45
1:dR:103:ARG:O	2:dX:62:GLN:NE2	2.50	0.45
2:dV:79:LEU:HD12	2:dV:79:LEU:C	2.42	0.45
1:ea:100:LYS:CB	1:mf:100:LYS:CE	2.92	0.45
2:ey:69:ALA:HB2	2:nR:4:ILE:H	1.81	0.45
2:ey:226:LEU:HD23	2:ey:227:ALA:N	2.32	0.45
1:eD:102:GLU:OE2	1:ff:100:LYS:N	2.49	0.45
2:eW:21:GLN:HA	2:eW:21:GLN:OE1	2.16	0.45
2:eY:244:ASP:OD1	2:eY:245:ALA:N	2.50	0.45
2:eY:280:VAL:O	2:eY:289:ASN:ND2	2.50	0.45
2:eZ:226:LEU:HD21	2:eZ:273:LYS:HB3	1.99	0.45
2:fa:60:ILE:CG2	2:fa:60:ILE:O	2.64	0.45
1:fj:103:ARG:O	2:fp:62:GLN:NE2	2.50	0.45
2:fA:280:VAL:O	2:fA:289:ASN:ND2	2.50	0.45
2:fC:226:LEU:HD23	2:fC:227:ALA:N	2.32	0.45
2:fP:37:VAL:O	2:fP:37:VAL:HG13	2.17	0.45
2:fQ:226:LEU:HD23	2:fQ:227:ALA:N	2.32	0.45
1:fV:100:LYS:N	1:mc:102:GLU:OE2	2.49	0.45
1:fY:96:ASP:HB2	2:gc:64:VAL:HG13	1.98	0.45
2:gc:179:LEU:HD22	2:gc:209:TYR:HD2	1.82	0.45
2:gd:208:GLU:OE1	2:gd:210:ARG:NE	2.49	0.45
2:ge:69:ALA:HB2	2:ml:4:ILE:H	1.81	0.45
2:gf:197:LYS:HZ1	2:mz:62:GLN:HE21	1.64	0.45
1:gl:99:LEU:HD23	1:gn:60:ARG:CZ	2.46	0.45
1:gm:96:ASP:HB2	2:gq:64:VAL:HG13	1.99	0.45
1:gn:67:CYS:HA	1:gn:72:CYS:HA	1.98	0.45
2:go:9:ILE:HD12	2:go:12:LEU:HG	1.99	0.45
2:gu:166:PRO:HG3	2:gu:259:ILE:HG23	1.98	0.45
2:gC:258:ASP:OD1	2:gC:260:ARG:NH1	2.50	0.45
1:gO:96:ASP:CB	2:gS:64:VAL:HG13	2.47	0.45
2:gQ:258:ASP:OD1	2:gQ:260:ARG:NH1	2.50	0.45
2:gS:96:LEU:HB2	2:gS:98:VAL:HG22	1.99	0.45
1:ha:63:VAL:HG23	1:ha:99:LEU:CD1	2.42	0.45
1:hd:103:ARG:O	2:hj:62:GLN:NE2	2.50	0.45
2:hg:291:ASN:C	2:hg:294:LEU:HD22	2.42	0.45
2:hk:238:ASN:O	2:hk:242:VAL:HG13	2.17	0.45
1:hl:63:VAL:HG12	1:hl:75:LYS:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hl:100:LYS:CE	1:ka:100:LYS:NZ	2.79	0.45
2:ht:280:VAL:O	2:ht:289:ASN:ND2	2.50	0.45
2:ht:291:ASN:C	2:ht:294:LEU:HD22	2.42	0.45
2:hG:244:ASP:OD1	2:hG:245:ALA:N	2.50	0.45
2:hG:291:ASN:C	2:hG:294:LEU:HD22	2.42	0.45
2:hH:37:VAL:O	2:hH:37:VAL:HG13	2.17	0.45
2:hH:79:LEU:C	2:hH:79:LEU:HD12	2.42	0.45
1:hQ:96:ASP:CB	2:hU:64:VAL:HG13	2.47	0.45
2:hV:234:LEU:HA	2:hV:238:ASN:OD1	2.17	0.45
2:ig:30:THR:HG23	2:ig:298:LEU:HD13	1.98	0.45
2:ih:184:TYR:HH	2:ih:204:PHE:HD1	1.57	0.45
2:ii:291:ASN:C	2:ii:294:LEU:HD22	2.42	0.45
1:is:67:CYS:HA	1:is:72:CYS:HA	1.98	0.45
2:iw:65:ILE:HD12	2:iz:203:VAL:HG13	1.99	0.45
1:iF:99:LEU:HD23	1:iH:60:ARG:CZ	2.46	0.45
2:iK:53:PHE:O	2:iK:255:ARG:NH2	2.43	0.45
1:jd:100:LYS:CE	1:jj:100:LYS:NZ	2.79	0.45
1:jh:99:LEU:HD23	1:jj:60:ARG:CZ	2.46	0.45
2:jk:9:ILE:HD12	2:jk:12:LEU:HG	1.99	0.45
2:jp:274:ALA:CB	2:jp:297:VAL:HG21	2.46	0.45
2:jy:9:ILE:HD12	2:jy:12:LEU:HG	1.99	0.45
2:jA:280:VAL:O	2:jA:289:ASN:ND2	2.50	0.45
1:jJ:97:PRO:HD2	2:jR:65:ILE:O	2.16	0.45
2:jP:226:LEU:HD21	2:jP:273:LYS:HB3	1.99	0.45
2:jS:62:GLN:HE22	1:oj:104:CYS:HA	1.82	0.45
2:jS:238:ASN:O	2:jS:242:VAL:HG13	2.17	0.45
1:jW:63:VAL:HG23	1:jW:99:LEU:CD1	2.42	0.45
1:jX:99:LEU:HD23	1:jZ:60:ARG:CZ	2.46	0.45
1:jY:96:ASP:HB2	2:kc:64:VAL:HG13	1.98	0.45
2:kc:244:ASP:OD1	2:kc:245:ALA:N	2.50	0.45
2:kf:197:LYS:HZ1	2:pZ:62:GLN:HE21	1.65	0.45
1:kh:57:VAL:HB	1:kh:59:VAL:HG23	1.99	0.45
2:kq:267:PRO:HD2	2:kq:270:LEU:HD12	1.98	0.45
1:ku:59:VAL:HG12	1:ku:61:ALA:N	2.28	0.45
1:kz:96:ASP:HB2	2:kD:64:VAL:HG13	1.98	0.45
1:kz:96:ASP:CB	2:kD:64:VAL:HG13	2.47	0.45
2:kQ:205:MET:CE	2:mY:63:ARG:NE	2.74	0.45
2:kT:226:LEU:HD23	2:kT:227:ALA:N	2.32	0.45
1:kY:102:GLU:CD	1:lA:99:LEU:CA	2.87	0.45
1:kY:102:GLU:OE2	1:lA:100:LYS:N	2.49	0.45
1:lb:67:CYS:HA	1:lb:72:CYS:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lg:79:LEU:HD12	2:lg:79:LEU:C	2.42	0.45
2:lj:238:ASN:O	2:lj:242:VAL:HG13	2.17	0.45
1:lq:62:THR:HG22	1:lq:63:VAL:N	2.31	0.45
2:lr:258:ASP:OD1	2:lr:260:ARG:NH1	2.50	0.45
2:lt:280:VAL:O	2:lt:289:ASN:ND2	2.50	0.45
2:lv:4:ILE:H	2:pZ:69:ALA:HB2	1.81	0.45
2:lv:60:ILE:CG2	2:lv:60:ILE:O	2.64	0.45
2:lv:226:LEU:HD23	2:lv:227:ALA:N	2.32	0.45
1:lA:102:GLU:OE2	1:oy:100:LYS:N	2.49	0.45
2:lH:53:PHE:O	2:lH:255:ARG:NH2	2.43	0.45
2:lJ:57:ARG:HD3	2:lJ:58:GLU:N	2.32	0.45
1:lQ:57:VAL:O	1:lQ:59:VAL:HG23	2.17	0.45
2:lU:141:HIS:CD2	2:lU:150:THR:HG1	2.33	0.45
2:mk:4:ILE:CG2	1:ms:91:GLU:HB2	2.47	0.45
2:mn:238:ASN:O	2:mn:242:VAL:HG13	2.17	0.45
2:mx:96:LEU:HB2	2:mx:98:VAL:HG22	1.99	0.45
2:my:79:LEU:HD12	2:my:79:LEU:C	2.42	0.45
1:mH:67:CYS:HA	1:mH:72:CYS:HA	1.98	0.45
2:mL:244:ASP:OD1	2:mL:245:ALA:N	2.50	0.45
2:mM:79:LEU:HD12	2:mM:79:LEU:C	2.42	0.45
2:mP:238:ASN:O	2:mP:242:VAL:HG13	2.17	0.45
2:mX:30:THR:HG23	2:mX:298:LEU:HD13	1.98	0.45
2:mZ:23:ALA:C	2:mZ:24:LEU:HD22	2.41	0.45
1:ni:97:PRO:HD2	2:nq:65:ILE:O	2.16	0.45
2:nl:21:GLN:OE1	2:nl:21:GLN:HA	2.16	0.45
2:nn:96:LEU:HB2	2:nn:98:VAL:HG22	1.99	0.45
2:nn:264:LEU:HB2	2:nn:295:VAL:HG11	1.97	0.45
1:nw:57:VAL:O	1:nw:59:VAL:HG23	2.17	0.45
1:nK:97:PRO:HD2	2:nS:65:ILE:O	2.16	0.45
1:nM:103:ARG:O	2:nS:62:GLN:NE2	2.50	0.45
2:nP:23:ALA:C	2:nP:24:LEU:HD22	2.41	0.45
2:nQ:37:VAL:O	2:nQ:37:VAL:HG13	2.17	0.45
2:nT:238:ASN:O	2:nT:242:VAL:HG13	2.17	0.45
2:ob:30:THR:HG23	2:ob:298:LEU:HD13	1.98	0.45
2:od:65:ILE:HD12	2:og:203:VAL:HG13	1.99	0.45
2:od:244:ASP:OD1	2:od:245:ALA:N	2.50	0.45
1:on:67:CYS:HA	1:on:72:CYS:HA	1.98	0.45
2:op:9:ILE:HD12	2:op:12:LEU:HG	1.99	0.45
2:os:185:GLN:OE1	2:os:205:MET:HE3	2.17	0.45
1:oA:97:PRO:HD2	2:oI:65:ILE:O	2.16	0.45
1:oC:103:ARG:O	2:oI:62:GLN:NE2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oG:234:LEU:HA	2:oG:238:ASN:OD1	2.17	0.45
2:oU:226:LEU:HD21	2:oU:273:LYS:HB3	1.99	0.45
2:oX:238:ASN:O	2:oX:242:VAL:HG13	2.17	0.45
2:pf:258:ASP:OD1	2:pf:260:ARG:NH1	2.50	0.45
2:ph:280:VAL:O	2:ph:289:ASN:ND2	2.50	0.45
2:ph:291:ASN:C	2:ph:294:LEU:HD22	2.42	0.45
2:pJ:244:ASP:OD1	2:pJ:245:ALA:N	2.50	0.45
2:pK:37:VAL:O	2:pK:37:VAL:HG13	2.17	0.45
2:pV:258:ASP:OD1	2:pV:260:ARG:NH1	2.50	0.45
1:qc:57:VAL:HB	1:qc:59:VAL:HG23	1.99	0.45
3:qe:66:GLN:C	4:qm:10:GLN:HG3	2.42	0.45
5:qt:385:PRO:HA	5:qt:388:VAL:HG22	1.98	0.45
5:qB:109:LEU:O	5:qB:113:LEU:HD13	2.16	0.45
6:qI:112:LEU:CD2	6:qK:58:LEU:HD13	0.62	0.45
5:qJ:236:LEU:HD21	5:qL:266:ILE:CD1	2.46	0.45
1:ab:100:LYS:N	1:ng:102:GLU:OE2	2.49	0.45
1:ad:97:PRO:HD2	2:al:65:ILE:O	2.16	0.45
1:ae:96:ASP:CB	2:ai:64:VAL:HG13	2.47	0.45
2:ag:9:ILE:HD12	2:ag:12:LEU:HG	1.99	0.45
2:ag:30:THR:HG23	2:ag:298:LEU:HD13	1.98	0.45
2:aj:37:VAL:O	2:aj:37:VAL:HG13	2.17	0.45
2:aj:185:GLN:OE1	2:aj:205:MET:HE3	2.17	0.45
2:au:182:LEU:HG	2:au:182:LEU:O	2.16	0.45
2:av:244:ASP:OD1	2:av:245:ALA:N	2.50	0.45
2:aw:79:LEU:HD12	2:aw:79:LEU:C	2.42	0.45
2:aw:226:LEU:HD21	2:aw:273:LYS:HB3	1.99	0.45
2:aH:258:ASP:OD1	2:aH:260:ARG:NH1	2.50	0.45
2:aN:14:THR:CG2	2:kb:12:LEU:HD21	2.46	0.45
2:aV:62:GLN:OE1	1:bg:102:GLU:CD	2.53	0.45
2:aY:226:LEU:HD21	2:aY:273:LYS:HB3	1.99	0.45
1:bq:57:VAL:HB	1:bq:59:VAL:HG23	1.99	0.45
2:bx:226:LEU:HD23	2:bx:273:LYS:HE3	1.99	0.45
2:bA:79:LEU:HD12	2:bA:79:LEU:C	2.42	0.45
2:bA:234:LEU:HA	2:bA:238:ASN:OD1	2.17	0.45
1:bE:57:VAL:HB	1:bE:59:VAL:HG23	1.99	0.45
1:bG:99:LEU:CA	1:gL:102:GLU:CD	2.87	0.45
2:bN:185:GLN:NE2	2:gq:196:THR:OG1	2.50	0.45
2:bQ:92:GLU:CB	5:qp:44:LYS:HE2	2.47	0.45
1:bV:98:LEU:O	2:dr:197:LYS:NZ	2.47	0.45
2:ca:38:ILE:O	2:ca:38:ILE:HG13	2.15	0.45
2:ca:179:LEU:HD22	2:ca:209:TYR:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cm:21:GLN:HA	2:cm:21:GLN:OE1	2.16	0.45
2:cm:150:THR:OG1	2:cm:220:GLY:O	2.18	0.45
2:cm:193:THR:HG22	2:iv:193:THR:HG23	1.99	0.45
2:co:291:ASN:C	2:co:294:LEU:HD22	2.42	0.45
2:cp:4:ILE:CG2	1:pq:91:GLU:HB2	2.46	0.45
1:cz:103:ARG:O	2:cF:62:GLN:NE2	2.50	0.45
2:cD:37:VAL:O	2:cD:37:VAL:HG13	2.17	0.45
2:cD:185:GLN:NE2	2:pJ:196:THR:OG1	2.50	0.45
2:cE:226:LEU:HD23	2:cE:227:ALA:N	2.32	0.45
2:cF:200:ASP:OD1	2:cF:200:ASP:N	2.50	0.45
1:cL:99:LEU:HD23	1:cN:60:ARG:CZ	2.46	0.45
1:cN:62:THR:HG22	1:cN:63:VAL:N	2.31	0.45
2:cP:193:THR:HG23	2:eW:193:THR:HG22	1.99	0.45
2:cQ:38:ILE:HG13	2:cQ:38:ILE:O	2.15	0.45
2:cR:185:GLN:NE2	2:iK:196:THR:OG1	2.50	0.45
2:cS:226:LEU:HD23	2:cS:227:ALA:N	2.32	0.45
1:cY:63:VAL:HG23	1:cY:99:LEU:CD1	2.42	0.45
1:cZ:57:VAL:O	1:cZ:59:VAL:HG23	2.17	0.45
2:dc:21:GLN:HA	2:dc:21:GLN:OE1	2.16	0.45
2:ds:80:PHE:HA	2:du:59:TRP:HB3	1.99	0.45
2:ds:244:ASP:OD1	2:ds:245:ALA:N	2.50	0.45
2:du:226:LEU:HD23	2:du:227:ALA:N	2.32	0.45
2:dH:37:VAL:HG13	2:dH:37:VAL:O	2.17	0.45
2:dH:208:GLU:OE1	2:dH:210:ARG:NE	2.49	0.45
1:dQ:63:VAL:HG13	1:dQ:74:ASP:HB3	1.99	0.45
2:dU:179:LEU:HD22	2:dU:209:TYR:HD2	1.82	0.45
2:dV:185:GLN:OE1	2:dV:205:MET:HE3	2.17	0.45
1:ed:97:PRO:HD2	2:el:65:ILE:O	2.16	0.45
1:ep:102:GLU:HB3	1:pa:99:LEU:HD23	1.96	0.45
2:eu:21:GLN:OE1	2:eu:21:GLN:HA	2.16	0.45
2:ex:37:VAL:O	2:ex:37:VAL:HG13	2.17	0.45
1:eH:100:LYS:NZ	1:gv:100:LYS:CE	2.79	0.45
2:eK:65:ILE:HD12	2:eN:203:VAL:HG13	1.99	0.45
1:eU:96:ASP:CB	2:eY:64:VAL:HG13	2.47	0.45
2:eY:80:PHE:HA	2:fa:59:TRP:HB3	1.99	0.45
2:fm:291:ASN:C	2:fm:294:LEU:HD22	2.42	0.45
2:fq:238:ASN:O	2:fq:242:VAL:HG13	2.17	0.45
2:fz:282:ARG:HH11	2:mi:282:ARG:NH2	1.93	0.45
2:fC:60:ILE:CG2	2:fC:60:ILE:O	2.64	0.45
2:fM:258:ASP:OD1	2:fM:260:ARG:NH1	2.50	0.45
1:fT:100:LYS:CE	1:fZ:100:LYS:NZ	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fT:102:GLU:CG	1:fZ:99:LEU:HD23	2.19	0.45
1:fX:57:VAL:O	1:fX:59:VAL:HG23	2.17	0.45
1:fX:97:PRO:HD2	2:gf:65:ILE:O	2.16	0.45
1:fZ:67:CYS:HA	1:fZ:72:CYS:HA	1.98	0.45
1:fZ:103:ARG:O	2:gf:62:GLN:NE2	2.50	0.45
2:gb:12:LEU:HD21	2:im:14:THR:CG2	2.46	0.45
2:gc:80:PHE:HA	2:ge:59:TRP:HB3	1.99	0.45
2:gd:4:ILE:CG2	1:id:91:GLU:HB2	2.47	0.45
2:gg:166:PRO:HG3	2:gg:259:ILE:HG23	1.98	0.45
2:gg:238:ASN:O	2:gg:242:VAL:HG13	2.17	0.45
2:gp:63:ARG:NE	2:hT:205:MET:CE	2.74	0.45
2:gq:38:ILE:O	2:gq:38:ILE:HG13	2.15	0.45
2:gs:60:ILE:CG2	2:gs:60:ILE:O	2.64	0.45
1:gA:100:LYS:CE	1:oZ:100:LYS:CB	2.92	0.45
2:gE:262:ASN:HA	2:gE:295:VAL:HG22	1.99	0.45
2:gF:79:LEU:HD12	2:gF:79:LEU:C	2.42	0.45
2:gG:226:LEU:HD23	2:gG:227:ALA:N	2.32	0.45
1:gJ:63:VAL:HG12	1:gJ:75:LYS:H	1.82	0.45
2:hh:37:VAL:O	2:hh:37:VAL:HG13	2.17	0.45
1:hq:67:CYS:HA	1:hq:72:CYS:HA	1.98	0.45
2:ht:179:LEU:HD22	2:ht:209:TYR:HD2	1.82	0.45
2:hG:65:ILE:HD12	2:hJ:203:VAL:HG13	1.99	0.45
2:hG:80:PHE:HA	2:hI:59:TRP:HB3	1.99	0.45
2:hH:226:LEU:HD21	2:hH:273:LYS:HB3	1.99	0.45
2:hK:62:GLN:HE22	1:IN:104:CYS:HA	1.82	0.45
1:hL:57:VAL:HB	1:hL:59:VAL:HG23	1.99	0.45
2:hS:30:THR:HG23	2:hS:298:LEU:HD13	1.98	0.45
2:hU:280:VAL:O	2:hU:289:ASN:ND2	2.50	0.45
2:hV:37:VAL:HG13	2:hV:37:VAL:O	2.17	0.45
2:hX:171:TYR:OH	2:hX:175:THR:OG1	2.12	0.45
1:ie:96:ASP:HB2	2:ii:64:VAL:HG13	1.99	0.45
1:ie:96:ASP:CB	2:ii:64:VAL:HG13	2.47	0.45
2:ig:9:ILE:HD12	2:ig:12:LEU:HG	1.99	0.45
1:it:100:LYS:HZ3	1:jT:100:LYS:CG	2.09	0.45
2:iv:67:ASP:HB2	2:iA:4:ILE:HD11	1.97	0.45
2:iy:57:ARG:HD3	2:iy:58:GLU:N	2.32	0.45
2:iz:200:ASP:N	2:iz:200:ASP:OD1	2.50	0.45
2:iL:30:THR:HG23	2:iL:298:LEU:HD13	1.98	0.45
2:iK:280:VAL:O	2:iK:289:ASN:ND2	2.50	0.45
2:iL:208:GLU:OE1	2:iL:210:ARG:NE	2.49	0.45
2:iO:238:ASN:O	2:iO:242:VAL:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iU:63:VAL:HG13	1:iU:74:ASP:HB3	1.99	0.45
1:iU:67:CYS:HA	1:iU:72:CYS:HA	1.98	0.45
2:iZ:226:LEU:HD21	2:iZ:273:LYS:HB3	1.99	0.45
2:jl:193:THR:HG23	2:lr:193:THR:HG22	1.99	0.45
2:jm:244:ASP:OD1	2:jm:245:ALA:N	2.50	0.45
2:jm:280:VAL:O	2:jm:289:ASN:ND2	2.50	0.45
1:jt:99:LEU:HD23	1:mS:102:GLU:HB3	1.96	0.45
1:jv:91:GLU:HB2	2:lg:4:ILE:CG2	2.47	0.45
2:jz:63:ARG:NE	2:le:205:MET:CE	2.74	0.45
2:ja:63:ARG:HE	2:jD:205:MET:CE	2.30	0.45
1:jJ:98:LEU:O	2:pI:197:LYS:NZ	2.47	0.45
2:jO:96:LEU:HB2	2:jO:98:VAL:HG22	1.99	0.45
2:jO:291:ASN:C	2:jO:294:LEU:HD22	2.42	0.45
1:jY:96:ASP:CB	2:kc:64:VAL:HG13	2.47	0.45
2:ka:258:ASP:OD1	2:ka:260:ARG:NH1	2.50	0.45
2:kp:244:ASP:OD1	2:kp:245:ALA:N	2.50	0.45
2:kq:234:LEU:HA	2:kq:238:ASN:OD1	2.17	0.45
2:kD:280:VAL:O	2:kD:289:ASN:ND2	2.50	0.45
2:kF:69:ALA:HB2	2:IX:4:ILE:H	1.81	0.45
2:kP:258:ASP:OD1	2:kP:260:ARG:NH1	2.50	0.45
2:kQ:43:ALA:O	2:kQ:77:ASN:ND2	2.50	0.45
1:lb:96:ASP:CB	2:lf:64:VAL:HG13	2.47	0.45
2:lf:23:ALA:C	2:lf:24:LEU:HD22	2.41	0.45
2:lf:291:ASN:C	2:lf:294:LEU:HD22	2.42	0.45
2:lg:208:GLU:OE1	2:lg:210:ARG:NE	2.49	0.45
2:lh:69:ALA:HB2	2:oH:4:ILE:H	1.81	0.45
1:lD:63:VAL:HG13	1:lD:74:ASP:HB3	1.99	0.45
1:lE:103:ARG:O	2:lK:62:GLN:NE2	2.50	0.45
2:lH:244:ASP:OD1	2:lH:245:ALA:N	2.50	0.45
2:lI:234:LEU:HA	2:lI:238:ASN:OD1	2.17	0.45
1:lQ:97:PRO:HD2	2:lY:65:ILE:O	2.16	0.45
2:lT:182:LEU:HG	2:lT:182:LEU:O	2.16	0.45
2:mi:44:SER:OG	2:mi:75:ILE:O	2.21	0.45
2:mj:179:LEU:HD22	2:mj:209:TYR:HD2	1.82	0.45
1:mo:100:LYS:CE	1:mu:100:LYS:NZ	2.79	0.45
1:mr:63:VAL:HG23	1:mr:99:LEU:CD1	2.42	0.45
1:mu:62:THR:HG22	1:mu:63:VAL:N	2.31	0.45
2:mv:30:THR:HG23	2:mv:298:LEU:HD13	1.98	0.45
2:mx:65:ILE:HD12	2:mA:203:VAL:HG13	1.99	0.45
2:my:37:VAL:O	2:my:37:VAL:HG13	2.17	0.45
2:mA:89:THR:N	2:mA:200:ASP:OD2	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mH:96:ASP:CB	2:mL:64:VAL:HG13	2.47	0.45
2:mN:57:ARG:HD3	2:mN:58:GLU:N	2.32	0.45
2:mO:274:ALA:CB	2:mO:297:VAL:HG21	2.46	0.45
2:mZ:244:ASP:OD1	2:mZ:245:ALA:N	2.50	0.45
2:mZ:291:ASN:C	2:mZ:294:LEU:HD22	2.42	0.45
1:ni:91:GLU:HB2	2:oG:4:ILE:CG2	2.47	0.45
1:ni:103:ARG:HD2	2:oD:61:GLY:CA	2.40	0.45
1:nk:103:ARG:O	2:nq:62:GLN:NE2	2.50	0.45
2:nC:79:LEU:HD12	2:nC:79:LEU:C	2.42	0.45
2:nD:226:LEU:HD23	2:nD:227:ALA:N	2.32	0.45
2:nF:166:PRO:HG3	2:nF:259:ILE:HG23	1.98	0.45
1:nI:100:LYS:N	1:pa:102:GLU:OE2	2.49	0.45
2:nQ:234:LEU:HA	2:nQ:238:ASN:OD1	2.17	0.45
2:nT:185:GLN:O	2:nT:205:MET:N	2.43	0.45
1:nY:57:VAL:O	1:nY:59:VAL:HG23	2.17	0.45
1:nY:99:LEU:HD23	1:oa:60:ARG:CZ	2.46	0.45
2:od:183:ILE:CG2	2:od:207:ASP:HB2	2.47	0.45
2:oe:226:LEU:HD21	2:oe:273:LYS:HB3	1.99	0.45
1:om:57:VAL:O	1:om:59:VAL:HG23	2.17	0.45
2:or:63:ARG:HE	2:ou:205:MET:CE	2.30	0.45
2:or:291:ASN:C	2:or:294:LEU:HD22	2.42	0.45
2:os:234:LEU:HA	2:os:238:ASN:OD1	2.17	0.45
2:os:267:PRO:HD2	2:os:270:LEU:HD12	1.98	0.45
2:ou:274:ALA:CB	2:ou:297:VAL:HG21	2.46	0.45
2:ov:238:ASN:O	2:ov:242:VAL:HG13	2.17	0.45
2:oD:30:THR:HG23	2:oD:298:LEU:HD13	1.98	0.45
2:oF:244:ASP:OD1	2:oF:245:ALA:N	2.50	0.45
2:oG:79:LEU:HD12	2:oG:79:LEU:C	2.42	0.45
1:oO:97:PRO:HD2	2:oW:65:ILE:O	2.16	0.45
1:oP:67:CYS:HA	1:oP:72:CYS:HA	1.98	0.45
1:oQ:103:ARG:O	2:oW:62:GLN:NE2	2.50	0.45
2:oT:80:PHE:HA	2:oV:59:TRP:HB3	1.99	0.45
2:oT:244:ASP:OD1	2:oT:245:ALA:N	2.50	0.45
2:oT:280:VAL:O	2:oT:289:ASN:ND2	2.50	0.45
2:pg:75:ILE:HG22	2:pg:76:THR:N	2.30	0.45
1:pq:57:VAL:O	1:pq:59:VAL:HG23	2.17	0.45
2:pw:234:LEU:HA	2:pw:238:ASN:OD1	2.17	0.45
2:pH:9:ILE:HD12	2:pH:12:LEU:HG	1.99	0.45
2:pH:30:THR:HG23	2:pH:298:LEU:HD13	1.98	0.45
2:pH:258:ASP:OD1	2:pH:260:ARG:NH1	2.50	0.45
2:pK:79:LEU:HD12	2:pK:79:LEU:C	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pK:208:GLU:OE1	2:pK:210:ARG:NE	2.49	0.45
1:pO:63:VAL:HG12	1:pO:75:LYS:H	1.82	0.45
1:pT:96:ASP:CB	2:pX:64:VAL:HG13	2.47	0.45
2:qb:166:PRO:HG3	2:qb:259:ILE:HG23	1.98	0.45
3:qd:28:VAL:O	3:qd:28:VAL:HG12	2.17	0.45
3:qg:64:GLY:O	4:qj:220:SER:N	2.50	0.45
4:qj:85:TYR:O	4:qj:180:ALA:N	2.48	0.45
4:qn:85:TYR:O	4:qn:180:ALA:N	2.48	0.45
5:qp:252:LEU:CD2	6:qs:126:GLN:HG2	2.36	0.45
5:qr:380:MET:SD	5:qr:384:ILE:CD1	3.05	0.45
5:qr:385:PRO:HA	5:qr:388:VAL:HG22	1.98	0.45
5:qv:380:MET:SD	5:qv:384:ILE:CD1	3.05	0.45
5:qx:380:MET:SD	5:qx:384:ILE:CD1	3.05	0.45
5:qL:380:MET:CE	5:qL:403:LEU:HD21	2.44	0.45
1:ad:91:GLU:HB2	2:oe:4:ILE:CG2	2.47	0.45
2:ai:179:LEU:HD22	2:ai:209:TYR:HD2	1.82	0.45
2:aj:226:LEU:HD21	2:aj:273:LYS:HB3	1.99	0.45
2:am:166:PRO:HG3	2:am:259:ILE:HG23	1.98	0.45
1:aB:99:LEU:HD11	1:mV:102:GLU:CG	2.42	0.45
2:aJ:61:GLY:CA	1:jW:103:ARG:NH1	2.70	0.45
2:aL:226:LEU:HD23	2:aL:227:ALA:N	2.32	0.45
1:aS:91:GLU:HB2	2:iL:4:ILE:CG2	2.47	0.45
1:aU:67:CYS:HA	1:aU:72:CYS:HA	1.97	0.45
2:aY:208:GLU:OE1	2:aY:210:ARG:NE	2.49	0.45
2:ba:200:ASP:OD1	2:ba:200:ASP:N	2.50	0.45
1:bd:100:LYS:CB	1:ji:100:LYS:CE	2.92	0.45
2:bm:185:GLN:OE1	2:bm:205:MET:HE3	2.17	0.45
2:bp:62:GLN:HE22	1:ki:104:CYS:HA	1.82	0.45
2:bp:183:ILE:HD12	2:bp:183:ILE:H	1.82	0.45
1:bq:63:VAL:HG12	1:bq:75:LYS:H	1.82	0.45
1:bu:57:VAL:O	1:bu:59:VAL:HG23	2.17	0.45
1:bw:100:LYS:HZ3	1:dj:100:LYS:HD3	1.80	0.45
2:bx:30:THR:HG23	2:bx:298:LEU:HD13	1.98	0.45
2:bA:226:LEU:HD21	2:bA:273:LYS:HB3	1.99	0.45
1:bJ:96:ASP:CB	2:bM:64:VAL:HG13	2.47	0.45
2:bL:9:ILE:HD12	2:bL:12:LEU:HG	1.99	0.45
2:bL:30:THR:HG23	2:bL:298:LEU:HD13	1.98	0.45
2:bM:38:ILE:O	2:bM:38:ILE:HG13	2.15	0.45
1:bX:100:LYS:NZ	1:dx:100:LYS:CE	2.79	0.45
1:ck:63:VAL:HG13	1:ck:74:ASP:HB3	1.99	0.45
2:cn:193:THR:HG23	2:pt:193:THR:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:co:196:THR:OG1	2:jn:185:GLN:NE2	2.50	0.45
1:ct:57:VAL:HB	1:ct:59:VAL:HG23	1.99	0.45
1:cy:63:VAL:HG13	1:cy:74:ASP:HB3	1.99	0.45
2:cB:197:LYS:NZ	1:cL:98:LEU:O	2.47	0.45
2:cC:183:ILE:CG2	2:cC:207:ASP:HB2	2.47	0.45
2:cG:183:ILE:HD12	2:cG:183:ILE:H	1.82	0.45
1:cH:100:LYS:CE	1:cN:100:LYS:NZ	2.79	0.45
1:cI:100:LYS:CB	1:pF:100:LYS:CE	2.92	0.45
2:cR:4:ILE:CG2	1:eT:91:GLU:HB2	2.47	0.45
2:cS:57:ARG:HD3	2:cS:58:GLU:N	2.32	0.45
2:dc:226:LEU:HD23	2:dc:273:LYS:HE3	1.98	0.45
2:dd:43:ALA:O	2:dd:77:ASN:ND2	2.50	0.45
2:de:80:PHE:HA	2:dg:59:TRP:HB3	1.99	0.45
2:df:185:GLN:NE2	2:dG:196:THR:OG1	2.50	0.45
1:do:67:CYS:HA	1:do:72:CYS:HA	1.98	0.45
1:do:96:ASP:CB	2:ds:64:VAL:HG13	2.47	0.45
1:dp:62:THR:HG22	1:dp:63:VAL:N	2.31	0.45
2:dq:258:ASP:OD1	2:dq:260:ARG:NH1	2.50	0.45
2:dv:274:ALA:CB	2:dv:297:VAL:HG21	2.46	0.45
2:dw:238:ASN:O	2:dw:242:VAL:HG13	2.17	0.45
1:dC:96:ASP:CB	2:dG:64:VAL:HG13	2.47	0.45
2:dE:9:ILE:HD12	2:dE:12:LEU:HG	1.99	0.45
2:dE:182:LEU:HG	2:dE:182:LEU:O	2.16	0.45
2:dI:30:THR:CG2	2:dI:298:LEU:HD13	2.46	0.45
1:ef:62:THR:HG22	1:ef:63:VAL:N	2.32	0.45
2:eg:9:ILE:HD12	2:eg:12:LEU:HG	1.99	0.45
2:eg:258:ASP:OD1	2:eg:260:ARG:NH1	2.50	0.45
2:ej:4:ILE:CG2	1:er:91:GLU:HB2	2.47	0.45
2:ej:37:VAL:HG13	2:ej:37:VAL:O	2.17	0.45
2:ej:226:LEU:HD21	2:ej:273:LYS:HB3	1.99	0.45
2:em:183:ILE:HD12	2:em:183:ILE:H	1.82	0.45
1:eo:104:CYS:HA	2:nT:62:GLN:HE22	1.82	0.45
2:ev:43:ALA:O	2:ev:77:ASN:ND2	2.50	0.45
2:ew:65:ILE:HD12	2:ez:203:VAL:HG13	1.99	0.45
2:ez:274:ALA:CB	2:ez:297:VAL:HG21	2.46	0.45
2:eA:183:ILE:H	2:eA:183:ILE:HD12	1.82	0.45
2:eI:258:ASP:OD1	2:eI:260:ARG:NH1	2.50	0.45
2:eJ:75:ILE:HG22	2:eJ:76:THR:N	2.30	0.45
2:eK:183:ILE:CG2	2:eK:207:ASP:HB2	2.47	0.45
1:eU:63:VAL:HG13	1:eU:74:ASP:HB3	1.99	0.45
2:eW:226:LEU:HD23	2:eW:273:LYS:HE3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eY:65:ILE:HD12	2:fb:203:VAL:HG13	1.99	0.45
2:eY:183:ILE:CG2	2:eY:207:ASP:HB2	2.47	0.45
2:eY:291:ASN:C	2:eY:294:LEU:HD22	2.42	0.45
1:fh:97:PRO:HD2	2:fp:65:ILE:O	2.16	0.45
1:fj:67:CYS:HA	1:fj:72:CYS:HA	1.98	0.45
2:fl:43:ALA:O	2:fl:77:ASN:ND2	2.50	0.45
2:fn:226:LEU:HD21	2:fn:273:LYS:HB3	1.99	0.45
1:fr:57:VAL:HB	1:fr:59:VAL:HG23	1.99	0.45
2:fb:234:LEU:HA	2:fb:238:ASN:OD1	2.17	0.45
2:fd:89:THR:N	2:fd:200:ASP:OD2	2.36	0.45
2:fo:61:GLY:CA	1:lp:103:ARG:NH1	2.70	0.45
2:fo:179:LEU:HD22	2:fo:209:TYR:HD2	1.82	0.45
2:fp:4:ILE:CG2	1:fx:91:GLU:HB2	2.47	0.45
2:fp:234:LEU:HA	2:fp:238:ASN:OD1	2.17	0.45
2:fq:62:GLN:HE21	2:kg:197:LYS:HZ1	1.64	0.45
1:fv:102:GLU:CD	1:nu:99:LEU:CA	2.87	0.45
1:fx:63:VAL:HG12	1:fx:99:LEU:HD13	1.97	0.45
2:gb:57:ARG:NH2	2:gb:58:GLU:O	2.48	0.45
1:gm:67:CYS:HA	1:gm:72:CYS:HA	1.98	0.45
2:gq:244:ASP:OD1	2:gq:245:ALA:N	2.50	0.45
2:gr:185:GLN:NE2	2:gs:196:THR:OG1	2.50	0.45
2:gs:226:LEU:HD23	2:gs:227:ALA:N	2.32	0.45
2:gD:43:ALA:O	2:gD:77:ASN:ND2	2.50	0.45
2:gE:244:ASP:OD1	2:gE:245:ALA:N	2.50	0.45
2:gF:185:GLN:OE1	2:gF:205:MET:HE3	2.17	0.45
2:gR:43:ALA:O	2:gR:77:ASN:ND2	2.50	0.45
2:gS:65:ILE:HD12	2:gV:203:VAL:HG13	1.99	0.45
2:gS:244:ASP:OD1	2:gS:245:ALA:N	2.50	0.45
2:hF:67:ASP:HB2	2:hk:4:ILE:HD11	1.97	0.45
2:ht:80:PHE:HA	2:hv:59:TRP:HB3	1.99	0.45
2:hv:4:ILE:H	2:kT:69:ALA:HB2	1.81	0.45
2:hv:57:ARG:HD3	2:hv:58:GLU:N	2.32	0.45
1:hA:99:LEU:HD21	1:kw:60:ARG:HH21	0.59	0.45
1:hE:67:CYS:HA	1:hE:72:CYS:HA	1.98	0.45
2:hG:183:ILE:CG2	2:hG:207:ASP:HB2	2.47	0.45
2:hH:185:GLN:OE1	2:hH:205:MET:HE3	2.17	0.45
1:hP:57:VAL:O	1:hP:59:VAL:HG23	2.17	0.45
1:hP:97:PRO:HD2	2:hX:65:ILE:O	2.16	0.45
1:hQ:96:ASP:HB2	2:hU:64:VAL:HG13	1.98	0.45
1:hR:62:THR:HG22	1:hR:63:VAL:N	2.31	0.45
1:hR:103:ARG:O	2:hX:62:GLN:NE2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hX:200:ASP:N	2:hX:200:ASP:OD1	2.50	0.45
1:hZ:63:VAL:HG12	1:hZ:75:LYS:H	1.82	0.45
1:id:57:VAL:O	1:id:59:VAL:HG23	2.17	0.45
2:ig:258:ASP:OD1	2:ig:260:ARG:NH1	2.50	0.45
2:ih:57:ARG:NH2	2:ih:58:GLU:O	2.48	0.45
2:ij:208:GLU:OE1	2:ij:210:ARG:NE	2.49	0.45
1:ir:57:VAL:O	1:ir:59:VAL:HG23	2.17	0.45
2:iu:9:ILE:HD12	2:iu:12:LEU:HG	1.99	0.45
2:iu:182:LEU:HG	2:iu:182:LEU:O	2.16	0.45
2:iw:183:ILE:CG2	2:iw:207:ASP:HB2	2.47	0.45
2:iy:226:LEU:HD23	2:iy:227:ALA:N	2.32	0.45
2:iA:62:GLN:HE22	1:ll:104:CYS:HA	1.82	0.45
1:iF:57:VAL:O	1:iF:59:VAL:HG23	2.17	0.45
2:iN:274:ALA:CB	2:iN:297:VAL:HG21	2.46	0.45
2:iY:65:ILE:HD12	2:jb:203:VAL:HG13	1.99	0.45
2:iY:96:LEU:HB2	2:iY:98:VAL:HG22	1.99	0.45
2:iY:291:ASN:C	2:iY:294:LEU:HD22	2.42	0.45
2:jn:4:ILE:CG2	1:lo:91:GLU:HB2	2.47	0.45
2:jQ:238:ASN:O	2:jQ:242:VAL:HG13	2.17	0.45
2:jA:65:ILE:HD12	2:jD:203:VAL:HG13	1.99	0.45
2:jA:80:PHE:HA	2:jC:59:TRP:HB3	1.99	0.45
2:jA:196:THR:OG1	2:na:185:GLN:NE2	2.50	0.45
2:jA:262:ASN:HA	2:jA:295:VAL:HG22	1.99	0.45
2:jN:44:SER:OG	2:jN:75:ILE:O	2.21	0.45
1:jT:57:VAL:HB	1:jT:59:VAL:HG23	1.99	0.45
1:jZ:100:LYS:NZ	1:ly:100:LYS:CE	2.79	0.45
1:jZ:100:LYS:NZ	1:ly:100:LYS:CD	2.71	0.45
2:kb:43:ALA:O	2:kb:77:ASN:ND2	2.50	0.45
2:kd:226:LEU:HD21	2:kd:273:LYS:HB3	1.99	0.45
2:ko:9:ILE:HD12	2:ko:12:LEU:HG	1.99	0.45
2:ks:200:ASP:N	2:ks:200:ASP:OD1	2.50	0.45
1:kz:63:VAL:HG13	1:kz:74:ASP:HB3	1.99	0.45
1:kA:103:ARG:O	2:kG:62:GLN:NE2	2.50	0.45
2:kC:43:ALA:O	2:kC:77:ASN:ND2	2.50	0.45
2:kD:96:LEU:HB2	2:kD:98:VAL:HG22	1.99	0.45
2:kE:4:ILE:CG2	1:kM:91:GLU:HB2	2.47	0.45
2:kE:226:LEU:HD21	2:kE:273:LYS:HB3	1.99	0.45
2:kE:234:LEU:HA	2:kE:238:ASN:OD1	2.17	0.45
2:kF:57:ARG:HD3	2:kF:58:GLU:N	2.32	0.45
1:kN:67:CYS:HA	1:kN:72:CYS:HA	1.98	0.45
2:kR:183:ILE:CG2	2:kR:207:ASP:HB2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kS:79:LEU:HD12	2:kS:79:LEU:C	2.42	0.45
1:la:91:GLU:HB2	2:mM:4:ILE:CG2	2.46	0.45
1:lc:103:ARG:O	2:li:62:GLN:NE2	2.50	0.45
2:le:43:ALA:O	2:le:77:ASN:ND2	2.50	0.45
2:lg:185:GLN:NE2	2:lH:196:THR:OG1	2.50	0.45
1:lq:103:ARG:O	2:lw:62:GLN:NE2	2.50	0.45
2:lt:80:PHE:HA	2:lv:59:TRP:HB3	1.99	0.45
2:lt:179:LEU:HD22	2:lt:209:TYR:HD2	1.82	0.45
2:lt:183:ILE:CG2	2:lt:207:ASP:HB2	2.47	0.45
2:lv:30:THR:CG2	2:lv:298:LEU:HD13	2.46	0.45
2:lH:179:LEU:HD22	2:lH:209:TYR:HD2	1.82	0.45
2:lH:183:ILE:CG2	2:lH:207:ASP:HB2	2.48	0.45
2:lH:280:VAL:O	2:lH:289:ASN:ND2	2.50	0.45
2:lT:226:LEU:HD23	2:lT:273:LYS:HE3	1.98	0.45
2:lX:57:ARG:HD3	2:lX:58:GLU:N	2.32	0.45
2:lX:226:LEU:HD23	2:lX:227:ALA:N	2.32	0.45
2:mi:57:ARG:NH2	2:mi:58:GLU:O	2.48	0.45
2:ml:226:LEU:HD23	2:ml:227:ALA:N	2.32	0.45
2:mv:9:ILE:HD12	2:mv:12:LEU:HG	1.99	0.45
2:mx:280:VAL:O	2:mx:289:ASN:ND2	2.50	0.45
2:mL:280:VAL:O	2:mL:289:ASN:ND2	2.50	0.45
2:mM:208:GLU:OE1	2:mM:210:ARG:NE	2.49	0.45
2:mM:234:LEU:HA	2:mM:238:ASN:OD1	2.17	0.45
2:mP:166:PRO:HG3	2:mP:259:ILE:HG23	1.98	0.45
2:nb:60:ILE:CG2	2:nb:60:ILE:O	2.64	0.45
1:ne:63:VAL:HG12	1:ne:75:LYS:H	1.82	0.45
1:ni:57:VAL:O	1:ni:59:VAL:HG23	2.17	0.45
2:nl:258:ASP:OD1	2:nl:260:ARG:NH1	2.50	0.45
2:nm:44:SER:OG	2:nm:75:ILE:O	2.21	0.45
2:nn:262:ASN:HA	2:nn:295:VAL:HG22	1.99	0.45
2:nn:280:VAL:O	2:nn:289:ASN:ND2	2.50	0.45
2:nr:14:THR:CG2	2:oE:12:LEU:HD21	2.46	0.45
2:nr:166:PRO:HG3	2:nr:259:ILE:HG23	1.98	0.45
1:nx:96:ASP:HB2	2:nB:64:VAL:HG13	1.99	0.45
1:ny:67:CYS:HA	1:ny:72:CYS:HA	1.98	0.45
2:nB:117:LEU:HD21	2:nB:211:TYR:CA	2.46	0.45
1:nG:59:VAL:HG12	1:nG:61:ALA:N	2.29	0.45
2:nN:9:ILE:HD12	2:nN:12:LEU:HG	1.99	0.45
2:nS:200:ASP:OD1	2:nS:200:ASP:N	2.50	0.45
2:od:179:LEU:HD22	2:od:209:TYR:HD2	1.82	0.45
2:od:291:ASN:C	2:od:294:LEU:HD22	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oe:185:GLN:OE1	2:oe:205:MET:HE3	2.17	0.45
2:or:262:ASN:HA	2:or:295:VAL:HG22	1.99	0.45
2:ou:200:ASP:N	2:ou:200:ASP:OD1	2.50	0.45
1:ow:63:VAL:HG12	1:ow:75:LYS:H	1.82	0.45
2:oD:21:GLN:OE1	2:oD:21:GLN:HA	2.16	0.45
2:oF:291:ASN:C	2:oF:294:LEU:HD22	2.42	0.45
2:oH:57:ARG:HD3	2:oH:58:GLU:N	2.32	0.45
2:oS:57:ARG:NH2	2:oS:58:GLU:O	2.48	0.45
2:oU:79:LEU:HD12	2:oU:79:LEU:C	2.42	0.45
2:pj:226:LEU:HD23	2:pj:227:ALA:N	2.32	0.45
2:pv:80:PHE:HA	2:px:59:TRP:HB3	1.99	0.45
2:pv:280:VAL:O	2:pv:289:ASN:ND2	2.50	0.45
1:pG:103:ARG:O	2:pM:62:GLN:NE2	2.50	0.45
2:pX:117:LEU:HD21	2:pX:211:TYR:CA	2.45	0.45
2:pX:179:LEU:HD22	2:pX:209:TYR:HD2	1.82	0.45
2:pX:183:ILE:CG2	2:pX:207:ASP:HB2	2.47	0.45
2:pX:280:VAL:O	2:pX:289:ASN:ND2	2.50	0.45
3:qe:67:ARG:NH1	3:qf:126:ARG:O	2.50	0.45
3:qh:64:GLY:O	4:qo:220:SER:N	2.50	0.45
3:qi:70:GLN:NE2	3:qi:72:VAL:HG22	2.31	0.45
4:qj:83:THR:HG21	4:qj:228:MET:CE	2.46	0.45
5:qp:380:MET:SD	5:qp:384:ILE:CD1	3.05	0.45
5:qp:385:PRO:HA	5:qp:388:VAL:HG22	1.98	0.45
6:qs:133:ASP:OD1	6:qs:134:TRP:N	2.45	0.45
6:qy:112:LEU:CD2	6:qA:58:LEU:HD12	1.00	0.45
5:qz:380:MET:CE	5:qz:403:LEU:HD21	2.44	0.45
5:qz:385:PRO:HA	5:qz:388:VAL:HG22	1.98	0.45
5:qD:392:LEU:CD1	5:qF:400:TYR:HH	2.25	0.45
5:qH:236:LEU:HD21	5:qJ:266:ILE:CD1	2.46	0.45
2:ai:262:ASN:HA	2:ai:295:VAL:HG22	2.00	0.44
2:av:183:ILE:CG2	2:av:207:ASP:HB2	2.47	0.44
2:av:280:VAL:O	2:av:289:ASN:ND2	2.50	0.44
2:av:291:ASN:C	2:av:294:LEU:HD22	2.42	0.44
2:aw:234:LEU:HA	2:aw:238:ASN:OD1	2.17	0.44
1:aE:57:VAL:O	1:aE:59:VAL:HG23	2.17	0.44
2:aJ:280:VAL:O	2:aJ:289:ASN:ND2	2.50	0.44
2:aK:226:LEU:HD21	2:aK:273:LYS:HB3	1.99	0.44
2:aN:238:ASN:O	2:aN:242:VAL:HG13	2.17	0.44
1:aS:57:VAL:O	1:aS:59:VAL:HG23	2.17	0.44
2:aV:258:ASP:OD1	2:aV:260:ARG:NH1	2.50	0.44
1:bd:104:CYS:HA	2:jc:62:GLN:HE22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bg:57:VAL:O	1:bg:59:VAL:HG23	2.17	0.44
1:bi:103:ARG:O	2:bo:62:GLN:NE2	2.50	0.44
2:bl:244:ASP:OD1	2:bl:245:ALA:N	2.50	0.44
2:bz:196:THR:OG1	2:eZ:185:GLN:NE2	2.50	0.44
2:bB:4:ILE:H	2:cc:69:ALA:HB2	1.81	0.44
2:bD:62:GLN:HE22	1:bS:104:CYS:HA	1.82	0.44
2:bD:183:ILE:HD12	2:bD:183:ILE:H	1.82	0.44
1:bl:97:PRO:HD2	2:bP:65:ILE:O	2.16	0.44
2:bM:291:ASN:C	2:bM:294:LEU:HD22	2.42	0.44
2:bN:208:GLU:OE1	2:bN:210:ARG:NE	2.49	0.44
1:cg:104:CYS:HA	2:jQ:62:GLN:HE22	1.82	0.44
2:cp:185:GLN:OE1	2:cp:205:MET:HE3	2.17	0.44
2:cp:234:LEU:HA	2:cp:238:ASN:OD1	2.17	0.44
1:cy:96:ASP:HB2	2:cC:64:VAL:HG13	1.99	0.44
1:cy:102:GLU:CG	1:nH:99:LEU:HD11	2.42	0.44
2:cA:258:ASP:OD1	2:cA:260:ARG:NH1	2.50	0.44
2:cO:98:VAL:HG12	2:cO:99:TYR:N	2.33	0.44
2:cO:226:LEU:HD23	2:cO:273:LYS:HE3	1.98	0.44
2:cU:62:GLN:HE22	1:iC:104:CYS:HA	1.82	0.44
2:dc:30:THR:HG23	2:dc:298:LEU:HD13	1.98	0.44
2:dd:57:ARG:NH2	2:dd:58:GLU:O	2.48	0.44
2:de:63:ARG:HE	2:dh:205:MET:CE	2.30	0.44
2:di:238:ASN:O	2:di:242:VAL:HG13	2.17	0.44
2:dr:43:ALA:O	2:dr:77:ASN:ND2	2.50	0.44
2:dt:185:GLN:OE1	2:dt:205:MET:HE3	2.17	0.44
2:dt:226:LEU:HD21	2:dt:273:LYS:HB3	1.99	0.44
2:dW:62:GLN:HE22	1:hM:104:CYS:HA	1.82	0.44
2:dW:183:ILE:H	2:dW:183:ILE:HD12	1.83	0.44
2:dF:57:ARG:NH2	2:dF:58:GLU:O	2.48	0.44
2:dH:79:LEU:HD12	2:dH:79:LEU:C	2.42	0.44
2:dV:37:VAL:O	2:dV:37:VAL:HG13	2.17	0.44
2:dV:226:LEU:HD21	2:dV:273:LYS:HB3	1.99	0.44
1:dZ:102:GLU:CG	1:nM:99:LEU:HD23	2.19	0.44
1:ed:57:VAL:O	1:ed:59:VAL:HG23	2.17	0.44
1:ee:96:ASP:CB	2:ei:64:VAL:HG13	2.47	0.44
1:ef:100:LYS:NZ	1:nG:100:LYS:CE	2.79	0.44
2:eh:45:ASN:OD1	2:eh:75:ILE:HD12	2.18	0.44
2:ei:80:PHE:HA	2:ek:59:TRP:HB3	1.99	0.44
2:ej:79:LEU:HD12	2:ej:79:LEU:C	2.42	0.44
1:es:96:ASP:HB2	2:ew:64:VAL:HG13	1.99	0.44
2:ew:23:ALA:C	2:ew:24:LEU:HD22	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ex:185:GLN:OE1	2:ex:205:MET:HE3	2.17	0.44
1:eF:91:GLU:HB2	2:gr:4:ILE:CG2	2.47	0.44
1:eH:103:ARG:O	2:eN:62:GLN:NE2	2.50	0.44
2:eK:23:ALA:C	2:eK:24:LEU:HD22	2.41	0.44
2:eK:280:VAL:O	2:eK:289:ASN:ND2	2.50	0.44
2:eL:185:GLN:NE2	2:fm:196:THR:OG1	2.50	0.44
2:eL:234:LEU:HA	2:eL:238:ASN:OD1	2.17	0.44
2:eM:226:LEU:HD23	2:eM:227:ALA:N	2.32	0.44
1:eV:103:ARG:O	2:fb:62:GLN:NE2	2.50	0.44
2:eZ:234:LEU:HA	2:eZ:238:ASN:OD1	2.17	0.44
2:fa:226:LEU:HD23	2:fa:227:ALA:N	2.32	0.44
2:fk:30:THR:HG23	2:fk:298:LEU:HD13	1.98	0.44
2:fq:183:ILE:HD12	2:fq:183:ILE:H	1.82	0.44
1:fw:96:ASP:HB2	2:fA:64:VAL:HG13	1.99	0.44
2:fy:9:ILE:HD12	2:fy:12:LEU:HG	1.99	0.44
2:fC:57:ARG:HD3	2:fC:58:GLU:N	2.32	0.44
2:fN:43:ALA:O	2:fN:77:ASN:ND2	2.50	0.44
2:fO:291:ASN:C	2:fO:294:LEU:HD22	2.42	0.44
2:gc:96:LEU:HB2	2:gc:98:VAL:HG22	1.99	0.44
2:gc:196:THR:OG1	2:mk:185:GLN:NE2	2.50	0.44
2:gc:244:ASP:OD1	2:gc:245:ALA:N	2.50	0.44
2:gc:291:ASN:C	2:gc:294:LEU:HD22	2.42	0.44
2:gF:89:THR:N	2:gF:200:ASP:OD2	2.36	0.44
1:gh:102:GLU:CG	1:if:99:LEU:HD23	2.19	0.44
1:gm:96:ASP:CB	2:gq:64:VAL:HG13	2.47	0.44
2:go:98:VAL:HG12	2:go:99:TYR:N	2.32	0.44
2:gq:280:VAL:O	2:gq:289:ASN:ND2	2.50	0.44
1:gv:57:VAL:HB	1:gv:59:VAL:HG23	1.99	0.44
1:gZ:99:LEU:HD23	1:gB:60:ARG:CZ	2.46	0.44
1:gA:67:CYS:HA	1:gA:72:CYS:HA	1.98	0.44
2:gE:53:PHE:O	2:gE:255:ARG:NH2	2.43	0.44
2:gE:65:ILE:HD12	2:gH:203:VAL:HG13	1.99	0.44
2:gE:179:LEU:HD22	2:gE:209:TYR:HD2	1.82	0.44
1:gM:62:THR:OG1	1:gM:100:LYS:O	2.27	0.44
2:gQ:193:THR:HG22	2:ih:193:THR:HG23	1.99	0.44
2:gT:79:LEU:C	2:gT:79:LEU:HD12	2.42	0.44
2:gT:267:PRO:HD2	2:gT:270:LEU:HD12	1.98	0.44
2:hi:57:ARG:HD3	2:hi:58:GLU:N	2.32	0.44
1:hp:57:VAL:O	1:hp:59:VAL:HG23	2.17	0.44
2:hs:98:VAL:HG12	2:hs:99:TYR:N	2.32	0.44
2:hu:234:LEU:HA	2:hu:238:ASN:OD1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hC:57:VAL:O	1:hC:59:VAL:HG23	2.17	0.44
1:hD:96:ASP:CB	2:hG:64:VAL:HG13	2.47	0.44
2:hG:38:ILE:HG13	2:hG:38:ILE:O	2.15	0.44
2:hI:226:LEU:HD23	2:hI:227:ALA:N	2.32	0.44
2:hK:166:PRO:HG3	2:hK:259:ILE:HG23	1.98	0.44
2:hU:65:ILE:HD12	2:hX:203:VAL:HG13	1.99	0.44
2:hU:262:ASN:HA	2:hU:295:VAL:HG22	1.99	0.44
2:hU:291:ASN:C	2:hU:294:LEU:HD22	2.42	0.44
2:ih:43:ALA:O	2:ih:77:ASN:ND2	2.50	0.44
2:ii:244:ASP:OD1	2:ii:245:ALA:N	2.50	0.44
1:in:63:VAL:HG12	1:in:75:LYS:H	1.82	0.44
1:it:62:THR:HG22	1:it:63:VAL:N	2.31	0.44
2:iu:98:VAL:HG12	2:iu:99:TYR:N	2.32	0.44
2:iw:179:LEU:HD22	2:iw:209:TYR:HD2	1.82	0.44
2:iy:4:ILE:H	2:lv:69:ALA:HB2	1.81	0.44
2:iI:226:LEU:HD23	2:iI:273:LYS:HE3	1.99	0.44
2:iL:226:LEU:HD21	2:iL:273:LYS:HB3	1.99	0.44
2:iM:4:ILE:H	2:px:69:ALA:HB2	1.81	0.44
1:iU:96:ASP:CB	2:iY:64:VAL:HG13	2.47	0.44
2:iY:183:ILE:CG2	2:iY:207:ASP:HB2	2.47	0.44
2:iZ:37:VAL:O	2:iZ:37:VAL:HG13	2.17	0.44
1:ji:96:ASP:CB	2:jm:64:VAL:HG13	2.47	0.44
2:jm:262:ASN:HA	2:jm:295:VAL:HG22	2.00	0.44
1:jt:102:GLU:CD	1:jV:99:LEU:HB3	2.37	0.44
2:jy:21:GLN:HA	2:jy:21:GLN:OE1	2.16	0.44
2:jz:43:ALA:O	2:jz:77:ASN:ND2	2.50	0.44
2:jB:208:GLU:OE1	2:jB:210:ARG:NE	2.49	0.44
2:jM:9:ILE:HD12	2:jM:12:LEU:HG	1.99	0.44
2:jN:43:ALA:O	2:jN:77:ASN:ND2	2.50	0.44
2:jO:65:ILE:HD12	2:jR:203:VAL:HG13	1.99	0.44
2:jP:185:GLN:OE1	2:jP:205:MET:HE3	2.17	0.44
1:jX:57:VAL:O	1:jX:59:VAL:HG23	2.17	0.44
2:kc:61:GLY:CA	1:ln:103:ARG:NH1	2.70	0.44
2:kB:9:ILE:HD12	2:kB:12:LEU:HG	1.99	0.44
2:kB:98:VAL:HG12	2:kB:99:TYR:N	2.33	0.44
2:kC:45:ASN:OD1	2:kC:75:ILE:HD12	2.18	0.44
2:kD:291:ASN:C	2:kD:294:LEU:HD22	2.42	0.44
2:kE:37:VAL:O	2:kE:37:VAL:HG13	2.17	0.44
2:kP:182:LEU:HG	2:kP:182:LEU:O	2.16	0.44
2:kR:80:PHE:HA	2:kT:59:TRP:HB3	1.99	0.44
2:kR:280:VAL:O	2:kR:289:ASN:ND2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kS:234:LEU:HA	2:kS:238:ASN:OD1	2.17	0.44
2:lj:166:PRO:HG3	2:lj:259:ILE:HG23	1.98	0.44
1:lp:96:ASP:CB	2:lt:64:VAL:HG13	2.47	0.44
2:ls:43:ALA:O	2:ls:77:ASN:ND2	2.50	0.44
2:lt:96:LEU:HB2	2:lt:98:VAL:HG22	1.99	0.44
2:lu:226:LEU:HD21	2:lu:273:LYS:HB3	1.99	0.44
1:lE:62:THR:HG22	1:lE:63:VAL:N	2.31	0.44
2:lF:226:LEU:HD23	2:lF:273:LYS:HE3	1.98	0.44
2:lI:79:LEU:HD12	2:lI:79:LEU:C	2.42	0.44
2:lI:185:GLN:OE1	2:lI:205:MET:HE3	2.17	0.44
2:lL:183:ILE:HD12	2:lL:183:ILE:H	1.82	0.44
2:lV:63:ARG:HE	2:lY:205:MET:CE	2.30	0.44
2:lX:216:ARG:HB3	2:lX:219:VAL:HG12	2.00	0.44
2:mk:185:GLN:OE1	2:mk:205:MET:HE3	2.17	0.44
1:mt:96:ASP:CB	2:mx:64:VAL:HG13	2.47	0.44
2:my:4:ILE:CG2	1:oA:91:GLU:HB2	2.47	0.44
2:mz:226:LEU:HD23	2:mz:227:ALA:N	2.32	0.44
2:mA:274:ALA:CB	2:mA:297:VAL:HG21	2.46	0.44
1:mG:57:VAL:O	1:mG:59:VAL:HG23	2.17	0.44
2:mM:185:GLN:NE2	2:nn:196:THR:OG1	2.50	0.44
2:mN:216:ARG:HB3	2:mN:219:VAL:HG12	1.99	0.44
2:no:234:LEU:HA	2:no:238:ASN:OD1	2.17	0.44
1:nw:99:LEU:HD23	1:ny:60:ARG:CZ	2.46	0.44
1:ny:62:THR:HG22	1:ny:63:VAL:N	2.32	0.44
1:nG:63:VAL:HG12	1:nG:75:LYS:H	1.82	0.44
2:nN:182:LEU:HG	2:nN:182:LEU:O	2.16	0.44
2:nN:258:ASP:OD1	2:nN:260:ARG:NH1	2.50	0.44
2:ob:258:ASP:OD1	2:ob:260:ARG:NH1	2.50	0.44
2:od:23:ALA:C	2:od:24:LEU:HD22	2.41	0.44
1:on:96:ASP:CB	2:or:64:VAL:HG13	2.47	0.44
1:oo:100:LYS:NZ	1:qc:100:LYS:CE	2.79	0.44
1:oA:57:VAL:O	1:oA:59:VAL:HG23	2.17	0.44
1:oB:96:ASP:HB2	2:oF:64:VAL:HG13	1.98	0.44
2:oD:182:LEU:HG	2:oD:182:LEU:O	2.16	0.44
2:oE:141:HIS:CD2	2:oE:150:THR:HG1	2.34	0.44
2:oU:234:LEU:HA	2:oU:238:ASN:OD1	2.17	0.44
1:oY:57:VAL:HB	1:oY:59:VAL:HG23	1.99	0.44
2:pl:238:ASN:O	2:pl:242:VAL:HG13	2.17	0.44
1:pr:96:ASP:CB	2:pv:64:VAL:HG13	2.47	0.44
2:pt:62:GLN:OE1	1:pE:102:GLU:CD	2.53	0.44
2:pv:65:ILE:HD12	2:py:203:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pw:226:LEU:HD21	2:pw:273:LYS:HB3	1.99	0.44
2:pz:238:ASN:O	2:pz:242:VAL:HG13	2.17	0.44
1:pF:96:ASP:CB	2:pJ:64:VAL:HG13	2.47	0.44
2:pJ:262:ASN:HA	2:pJ:295:VAL:HG22	2.00	0.44
2:pK:226:LEU:HD21	2:pK:273:LYS:HB3	1.99	0.44
2:pK:234:LEU:HA	2:pK:238:ASN:OD1	2.17	0.44
2:pV:9:ILE:HD12	2:pV:12:LEU:HG	1.99	0.44
2:pX:63:ARG:HE	2:qa:205:MET:CE	2.30	0.44
2:pX:244:ASP:OD1	2:pX:245:ALA:N	2.50	0.44
3:qd:126:ARG:O	3:qi:67:ARG:NH1	2.50	0.44
3:qe:67:ARG:CB	4:qm:194:LEU:HD11	2.46	0.44
3:qf:61:ASP:CB	4:ql:33:SER:CB	2.87	0.44
3:qf:66:GLN:C	4:ql:8:TYR:CD2	2.95	0.44
3:qg:66:GLN:H	4:qk:10:GLN:CG	1.98	0.44
3:qi:68:ALA:HA	4:qo:8:TYR:CZ	2.53	0.44
4:qk:238:THR:HG22	4:ql:50:TYR:HH	1.76	0.44
5:qp:227:LEU:HD21	5:qL:284:PRO:CB	2.48	0.44
5:qB:380:MET:SD	5:qB:384:ILE:CD1	3.05	0.44
6:qC:112:LEU:HD21	6:qE:58:LEU:HD12	0.51	0.44
1:ae:63:VAL:HG13	1:ae:74:ASP:HB3	1.99	0.44
2:ai:196:THR:OG1	2:no:185:GLN:NE2	2.50	0.44
2:ai:244:ASP:OD1	2:ai:245:ALA:N	2.50	0.44
2:ak:216:ARG:HB3	2:ak:219:VAL:HG12	2.00	0.44
2:ak:226:LEU:HD23	2:ak:227:ALA:N	2.32	0.44
1:an:57:VAL:HB	1:an:59:VAL:HG23	1.99	0.44
1:at:103:ARG:O	2:ay:62:GLN:NE2	2.50	0.44
2:au:21:GLN:HA	2:au:21:GLN:OE1	2.16	0.44
2:au:43:ALA:O	2:au:44:SER:OG	2.20	0.44
2:aw:4:ILE:CG2	1:kl:91:GLU:HB2	2.47	0.44
2:ax:216:ARG:HB3	2:ax:219:VAL:HG12	2.00	0.44
1:aA:57:VAL:HB	1:aA:59:VAL:HG23	1.99	0.44
1:aT:100:LYS:CE	1:pn:100:LYS:CB	2.92	0.44
2:bb:62:GLN:HE22	1:je:104:CYS:HA	1.82	0.44
2:bm:226:LEU:HD21	2:bm:273:LYS:HB3	1.99	0.44
2:bn:57:ARG:HD3	2:bn:58:GLU:N	2.32	0.44
2:bn:226:LEU:HD23	2:bn:227:ALA:N	2.32	0.44
1:bq:100:LYS:CE	1:dp:100:LYS:NZ	2.79	0.44
2:bz:262:ASN:HA	2:bz:295:VAL:HG22	1.99	0.44
2:bz:291:ASN:C	2:bz:294:LEU:HD22	2.42	0.44
2:bM:196:THR:OG1	2:gT:185:GLN:NE2	2.50	0.44
2:bM:262:ASN:HA	2:bM:295:VAL:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bQ:166:PRO:HG3	2:bQ:259:ILE:HG23	1.98	0.44
2:bQ:238:ASN:O	2:bQ:242:VAL:HG13	2.17	0.44
1:bX:103:ARG:O	2:cd:62:GLN:NE2	2.50	0.44
2:bY:9:ILE:HD12	2:bY:12:LEU:HG	1.99	0.44
2:bY:98:VAL:HG12	2:bY:99:TYR:N	2.33	0.44
2:bZ:205:MET:CE	2:iJ:63:ARG:NE	2.74	0.44
2:cb:4:ILE:CG2	1:iF:91:GLU:HB2	2.46	0.44
2:co:65:ILE:HD12	2:cr:203:VAL:HG13	1.99	0.44
2:cp:226:LEU:HD21	2:cp:273:LYS:HB3	1.99	0.44
2:cB:12:LEU:HD21	2:cU:14:THR:CG2	2.46	0.44
2:cD:4:ILE:CG2	1:cL:91:GLU:HB2	2.47	0.44
2:cD:36:THR:HG22	2:cD:175:THR:HG22	2.00	0.44
2:cD:79:LEU:HD12	2:cD:79:LEU:C	2.42	0.44
2:cQ:196:THR:OG1	2:pw:185:GLN:NE2	2.50	0.44
2:cQ:262:ASN:HA	2:cQ:295:VAL:HG22	1.99	0.44
1:cX:102:GLU:CD	1:dz:99:LEU:CA	2.87	0.44
1:da:63:VAL:HG13	1:da:74:ASP:HB3	1.99	0.44
2:dc:46:THR:HG22	2:dc:74:GLN:CG	2.48	0.44
2:dg:107:GLY:CA	2:dg:184:TYR:CZ	2.97	0.44
2:ds:38:ILE:O	2:ds:38:ILE:HG13	2.15	0.44
2:ds:96:LEU:HB2	2:ds:98:VAL:HG22	1.99	0.44
2:ds:291:ASN:C	2:ds:294:LEU:HD22	2.42	0.44
2:du:57:ARG:HD3	2:du:58:GLU:N	2.32	0.44
1:dB:57:VAL:O	1:dB:59:VAL:HG23	2.17	0.44
2:dE:46:THR:HG22	2:dE:74:GLN:CG	2.48	0.44
2:dE:61:GLY:CA	1:pc:103:ARG:HD2	2.40	0.44
2:dE:193:THR:HG22	2:eX:193:THR:HG23	2.00	0.44
2:dG:244:ASP:OD1	2:dG:245:ALA:N	2.50	0.44
2:dH:185:GLN:OE1	2:dH:205:MET:HE3	2.17	0.44
2:dH:234:LEU:HA	2:dH:238:ASN:OD1	2.17	0.44
2:dY:183:ILE:HD12	2:dY:183:ILE:H	1.82	0.44
2:ej:185:GLN:OE1	2:ej:205:MET:HE3	2.17	0.44
2:ej:185:GLN:NE2	2:od:196:THR:OG1	2.50	0.44
2:ek:57:ARG:HD3	2:ek:58:GLU:N	2.32	0.44
2:ek:69:ALA:HB2	2:fC:4:ILE:H	1.81	0.44
2:ek:226:LEU:HD23	2:ek:227:ALA:N	2.32	0.44
2:em:166:PRO:HG3	2:em:259:ILE:HG23	1.98	0.44
1:en:57:VAL:HB	1:en:59:VAL:HG23	1.99	0.44
1:ep:99:LEU:HD23	1:nI:102:GLU:HB3	1.96	0.44
1:et:103:ARG:O	2:ez:62:GLN:NE2	2.50	0.44
2:ew:63:ARG:HE	2:ez:205:MET:CE	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ew:183:ILE:CG2	2:ew:207:ASP:HB2	2.47	0.44
2:ew:291:ASN:C	2:ew:294:LEU:HD22	2.42	0.44
2:ex:185:GLN:NE2	2:ph:196:THR:OG1	2.50	0.44
1:eB:63:VAL:HG12	1:eB:75:LYS:H	1.82	0.44
1:eF:57:VAL:O	1:eF:59:VAL:HG23	2.17	0.44
2:eI:98:VAL:HG12	2:eI:99:TYR:N	2.32	0.44
2:eJ:43:ALA:O	2:eJ:77:ASN:ND2	2.50	0.44
2:eO:238:ASN:O	2:eO:242:VAL:HG13	2.17	0.44
2:eW:182:LEU:HG	2:eW:182:LEU:O	2.16	0.44
2:eZ:79:LEU:HD12	2:eZ:79:LEU:C	2.42	0.44
2:fk:62:GLN:OE1	1:nw:102:GLU:CD	2.53	0.44
2:fk:258:ASP:OD1	2:fk:260:ARG:NH1	2.50	0.44
2:fl:45:ASN:OD1	2:fl:75:ILE:HD12	2.18	0.44
2:fm:183:ILE:CG2	2:fm:207:ASP:HB2	2.47	0.44
1:fs:104:CYS:HA	2:oh:62:GLN:HE22	1.82	0.44
2:fy:30:THR:HG23	2:fy:298:LEU:HD13	1.98	0.44
2:fA:244:ASP:OD1	2:fA:245:ALA:N	2.50	0.44
1:fJ:97:PRO:HD2	2:fR:65:ILE:O	2.16	0.44
1:fK:63:VAL:HG13	1:fK:74:ASP:HB3	1.99	0.44
2:fP:185:GLN:OE1	2:fP:205:MET:HE3	2.17	0.44
2:fP:208:GLU:OE1	2:fP:210:ARG:NE	2.49	0.44
2:fP:267:PRO:HD2	2:fP:270:LEU:HD12	1.98	0.44
2:gd:36:THR:HG22	2:gd:175:THR:HG22	2.00	0.44
2:gd:37:VAL:O	2:gd:37:VAL:HG13	2.17	0.44
2:gd:185:GLN:OE1	2:gd:205:MET:HE3	2.17	0.44
2:gq:65:ILE:HD12	2:gt:203:VAL:HG13	1.99	0.44
2:gq:96:LEU:HB2	2:gq:98:VAL:HG22	1.99	0.44
2:gq:183:ILE:CG2	2:gq:207:ASP:HB2	2.47	0.44
2:gu:183:ILE:HD12	2:gu:183:ILE:H	1.83	0.44
2:gC:21:GLN:HA	2:gC:21:GLN:OE1	2.16	0.44
2:gC:46:THR:HG22	2:gC:74:GLN:CG	2.48	0.44
2:gS:183:ILE:CG2	2:gS:207:ASP:HB2	2.47	0.44
2:gU:57:ARG:HD3	2:gU:58:GLU:N	2.32	0.44
1:hb:91:GLU:HB2	2:II:4:ILE:CG2	2.47	0.44
1:hb:99:LEU:HD23	1:hd:60:ARG:CZ	2.46	0.44
2:hg:244:ASP:OD1	2:hg:245:ALA:N	2.50	0.44
2:hh:36:THR:HG22	2:hh:175:THR:HG22	2.00	0.44
2:hk:166:PRO:HG3	2:hk:259:ILE:HG23	1.98	0.44
1:hr:103:ARG:O	2:hw:62:GLN:NE2	2.50	0.44
2:ht:23:ALA:C	2:ht:24:LEU:HD22	2.41	0.44
2:hX:62:GLN:HE22	1:kJ:104:CYS:HA	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hx:95:ASN:O	5:qz:47:ARG:CB	2.65	0.44
2:hW:57:ARG:HD3	2:hW:58:GLU:N	2.32	0.44
1:ie:100:LYS:CE	1:nt:100:LYS:CB	2.92	0.44
2:ig:98:VAL:HG12	2:ig:99:TYR:N	2.32	0.44
2:ih:45:ASN:OD1	2:ih:75:ILE:HD12	2.18	0.44
2:ii:65:ILE:HD12	2:il:203:VAL:HG13	1.99	0.44
2:ik:57:ARG:HD3	2:ik:58:GLU:N	2.32	0.44
1:ip:99:LEU:CA	1:pQ:102:GLU:CD	2.87	0.44
1:ir:91:GLU:HB2	2:jP:4:ILE:CG2	2.46	0.44
2:iw:80:PHE:HA	2:iy:59:TRP:HB3	1.99	0.44
2:iw:291:ASN:C	2:iw:294:LEU:HD22	2.42	0.44
2:iA:183:ILE:HD12	2:iA:183:ILE:H	1.82	0.44
1:iH:67:CYS:HA	1:iH:72:CYS:HA	1.98	0.44
2:iM:226:LEU:HD23	2:iM:227:ALA:N	2.32	0.44
2:iW:9:ILE:HD12	2:iW:12:LEU:HG	1.99	0.44
2:iW:98:VAL:HG12	2:iW:99:TYR:N	2.32	0.44
2:iX:12:LEU:HD21	2:jQ:14:THR:CG2	2.46	0.44
2:iX:282:ARG:HH11	2:jl:282:ARG:NH2	1.93	0.44
2:iY:23:ALA:C	2:iY:24:LEU:HD22	2.41	0.44
2:iZ:36:THR:HG22	2:iZ:175:THR:HG22	2.00	0.44
2:jC:183:ILE:HD12	2:jC:183:ILE:H	1.82	0.44
1:jj:62:THR:HG22	1:jj:63:VAL:N	2.31	0.44
2:jl:43:ALA:O	2:jl:77:ASN:ND2	2.50	0.44
2:jM:183:ILE:CG2	2:jM:207:ASP:HB2	2.47	0.44
2:jo:57:ARG:HD3	2:jo:58:GLU:N	2.32	0.44
2:jo:226:LEU:HD23	2:jo:227:ALA:N	2.32	0.44
2:jy:226:LEU:HD23	2:jy:273:LYS:HE3	1.98	0.44
2:jA:244:ASP:OD1	2:jA:245:ALA:N	2.50	0.44
1:jK:96:ASP:CB	2:jO:64:VAL:HG13	2.47	0.44
2:jP:79:LEU:HD12	2:jP:79:LEU:C	2.42	0.44
2:jQ:216:ARG:HB3	2:jQ:219:VAL:HG12	2.00	0.44
2:jS:183:ILE:HD12	2:jS:183:ILE:H	1.82	0.44
2:ka:9:ILE:HD12	2:ka:12:LEU:HG	1.99	0.44
2:kd:37:VAL:O	2:kd:37:VAL:HG13	2.17	0.44
2:kd:185:GLN:OE1	2:kd:205:MET:HE3	2.17	0.44
2:kp:291:ASN:C	2:kp:294:LEU:HD22	2.42	0.44
2:kq:79:LEU:HD12	2:kq:79:LEU:C	2.42	0.44
2:kE:185:GLN:OE1	2:kE:205:MET:HE3	2.17	0.44
2:kR:291:ASN:C	2:kR:294:LEU:HD22	2.42	0.44
2:lf:80:PHE:HA	2:lh:59:TRP:HB3	1.99	0.44
2:ls:184:TYR:HH	2:ls:204:PHE:HD1	1.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lt:291:ASN:C	2:lt:294:LEU:HD22	2.42	0.44
2:lu:185:GLN:NE2	2:pX:196:THR:OG1	2.50	0.44
2:lF:258:ASP:OD1	2:lF:260:ARG:NH1	2.50	0.44
2:lG:63:ARG:NE	2:mY:205:MET:CE	2.74	0.44
2:lJ:226:LEU:HD23	2:lJ:227:ALA:N	2.32	0.44
2:IT:98:VAL:HG12	2:IT:99:TYR:N	2.32	0.44
2:IV:244:ASP:OD1	2:IV:245:ALA:N	2.50	0.44
2:mi:43:ALA:O	2:mi:77:ASN:ND2	2.50	0.44
2:mi:45:ASN:OD1	2:mi:75:ILE:HD12	2.18	0.44
2:mj:196:THR:OG1	2:nC:185:GLN:NE2	2.50	0.44
2:mj:291:ASN:C	2:mj:294:LEU:HD22	2.42	0.44
1:mu:103:ARG:O	2:mA:62:GLN:NE2	2.50	0.44
2:mw:57:ARG:NH2	2:mw:58:GLU:O	2.48	0.44
2:mx:244:ASP:OD1	2:mx:245:ALA:N	2.50	0.44
2:mB:183:ILE:HD12	2:mB:183:ILE:H	1.82	0.44
1:mC:63:VAL:HG12	1:mC:75:LYS:H	1.82	0.44
1:mG:103:ARG:HD2	2:op:61:GLY:CA	2.40	0.44
2:mJ:98:VAL:HG12	2:mJ:99:TYR:N	2.33	0.44
2:mL:183:ILE:CG2	2:mL:207:ASP:HB2	2.47	0.44
2:mM:37:VAL:HG13	2:mM:37:VAL:O	2.17	0.44
2:mP:183:ILE:HD12	2:mP:183:ILE:H	1.83	0.44
2:mX:46:THR:HG22	2:mX:74:GLN:CG	2.48	0.44
2:mY:45:ASN:OD1	2:mY:75:ILE:HD12	2.18	0.44
2:mZ:262:ASN:HA	2:mZ:295:VAL:HG22	2.00	0.44
2:na:208:GLU:OE1	2:na:210:ARG:NE	2.49	0.44
2:nb:226:LEU:HD23	2:nb:227:ALA:N	2.32	0.44
2:nn:244:ASP:OD1	2:nn:245:ALA:N	2.50	0.44
2:no:267:PRO:HD2	2:no:270:LEU:HD12	1.98	0.44
1:ny:103:ARG:O	2:nE:62:GLN:NE2	2.50	0.44
2:nB:291:ASN:C	2:nB:294:LEU:HD22	2.42	0.44
2:nC:208:GLU:OE1	2:nC:210:ARG:NE	2.49	0.44
2:nN:46:THR:HG22	2:nN:74:GLN:CG	2.48	0.44
2:nO:43:ALA:O	2:nO:77:ASN:ND2	2.50	0.44
2:nP:179:LEU:HD22	2:nP:209:TYR:HD2	1.82	0.44
2:nQ:208:GLU:OE1	2:nQ:210:ARG:NE	2.49	0.44
1:nZ:96:ASP:CB	2:od:64:VAL:HG13	2.47	0.44
2:of:226:LEU:HD23	2:of:227:ALA:N	2.32	0.44
1:oi:57:VAL:HB	1:oi:59:VAL:HG23	1.99	0.44
2:or:183:ILE:CG2	2:or:207:ASP:HB2	2.47	0.44
1:oB:96:ASP:CB	2:oF:64:VAL:HG13	2.47	0.44
2:oE:43:ALA:O	2:oE:77:ASN:ND2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oH:226:LEU:HD23	2:oH:227:ALA:N	2.32	0.44
1:oK:63:VAL:HG12	1:oK:75:LYS:H	1.82	0.44
2:oS:45:ASN:OD1	2:oS:75:ILE:HD12	2.18	0.44
2:pg:45:ASN:OD1	2:pg:75:ILE:HD12	2.18	0.44
1:pm:57:VAL:HB	1:pm:59:VAL:HG23	1.99	0.44
1:ps:67:CYS:HA	1:ps:72:CYS:HA	1.98	0.44
2:pu:43:ALA:O	2:pu:77:ASN:ND2	2.50	0.44
2:pu:45:ASN:OD1	2:pu:75:ILE:HD12	2.18	0.44
2:pI:43:ALA:O	2:pI:77:ASN:ND2	2.50	0.44
2:pI:57:ARG:NH2	2:pI:58:GLU:O	2.48	0.44
2:pJ:96:LEU:HB2	2:pJ:98:VAL:HG22	1.99	0.44
1:pS:57:VAL:O	1:pS:59:VAL:HG23	2.17	0.44
1:pT:96:ASP:HB2	2:pX:64:VAL:HG13	1.99	0.44
1:pU:103:ARG:O	2:qa:62:GLN:NE2	2.50	0.44
2:qa:237:VAL:O	2:qa:241:LYS:HB3	2.18	0.44
3:qf:28:VAL:O	3:qf:28:VAL:HG12	2.17	0.44
4:qj:202:ILE:HD11	4:qo:116:PHE:CD1	2.48	0.44
4:qk:48:GLU:HG2	4:qk:57:VAL:HG11	1.98	0.44
4:qn:116:PHE:CD1	4:qo:202:ILE:HD11	2.48	0.44
5:qt:207:ARG:NE	5:qv:69:GLU:OE2	2.43	0.44
5:qJ:380:MET:SD	5:qJ:384:ILE:CD1	3.05	0.44
2:aj:185:GLN:NE2	2:mL:196:THR:OG1	2.50	0.44
2:aJ:65:ILE:HD12	2:aM:203:VAL:HG13	1.99	0.44
2:aJ:179:LEU:HD22	2:aJ:209:TYR:HD2	1.82	0.44
2:aK:37:VAL:O	2:aK:37:VAL:HG13	2.17	0.44
2:aN:183:ILE:HD12	2:aN:183:ILE:H	1.82	0.44
2:aX:244:ASP:OD1	2:aX:245:ALA:N	2.50	0.44
2:aZ:226:LEU:HD23	2:aZ:227:ALA:N	2.32	0.44
1:bh:100:LYS:CE	1:je:100:LYS:CB	2.92	0.44
2:bj:258:ASP:OD1	2:bj:260:ARG:NH1	2.50	0.44
2:bl:183:ILE:CG2	2:bl:207:ASP:HB2	2.47	0.44
2:bl:262:ASN:HA	2:bl:295:VAL:HG22	1.99	0.44
2:bl:291:ASN:C	2:bl:294:LEU:HD22	2.42	0.44
1:bw:103:ARG:O	2:bC:62:GLN:NE2	2.50	0.44
2:bz:183:ILE:CG2	2:bz:207:ASP:HB2	2.47	0.44
1:bE:63:VAL:HG12	1:bE:75:LYS:H	1.82	0.44
2:bM:117:LEU:HD21	2:bM:211:TYR:CA	2.45	0.44
2:bY:62:GLN:OE1	1:iF:102:GLU:CD	2.53	0.44
2:bZ:43:ALA:O	2:bZ:77:ASN:ND2	2.50	0.44
2:ca:183:ILE:CG2	2:ca:207:ASP:HB2	2.48	0.44
2:ca:244:ASP:OD1	2:ca:245:ALA:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cb:185:GLN:NE2	2:eY:196:THR:OG1	2.50	0.44
2:cc:57:ARG:HD3	2:cc:58:GLU:N	2.32	0.44
1:ch:99:LEU:HB3	1:jf:102:GLU:CD	2.37	0.44
2:cm:46:THR:HG22	2:cm:74:GLN:CG	2.48	0.44
2:cm:258:ASP:OD1	2:cm:260:ARG:NH1	2.50	0.44
1:cu:104:CYS:HA	2:dY:62:GLN:HE22	1.82	0.44
2:cC:96:LEU:HB2	2:cC:98:VAL:HG22	1.99	0.44
1:cX:100:LYS:N	1:gx:102:GLU:OE2	2.49	0.44
1:da:96:ASP:CB	2:de:64:VAL:HG13	2.47	0.44
2:de:196:THR:OG1	2:gF:185:GLN:NE2	2.50	0.44
2:de:262:ASN:HA	2:de:295:VAL:HG22	1.99	0.44
2:de:280:VAL:O	2:de:289:ASN:ND2	2.50	0.44
2:df:234:LEU:HA	2:df:238:ASN:OD1	2.17	0.44
2:du:216:ARG:HB3	2:du:219:VAL:HG12	2.00	0.44
1:dC:63:VAL:HG13	1:dC:74:ASP:HB3	1.99	0.44
2:dF:12:LEU:HD21	2:pl:14:THR:CG2	2.46	0.44
2:dF:43:ALA:O	2:dF:77:ASN:ND2	2.50	0.44
2:dK:62:GLN:HE22	1:gw:104:CYS:HA	1.82	0.44
1:es:96:ASP:CB	2:ew:64:VAL:HG13	2.47	0.44
2:eu:46:THR:HG22	2:eu:74:GLN:CG	2.48	0.44
2:ev:192:PHE:HZ	2:eA:196:THR:HG21	1.83	0.44
2:ew:96:LEU:HB2	2:ew:98:VAL:HG22	1.99	0.44
2:ex:226:LEU:HD21	2:ex:273:LYS:HB3	1.99	0.44
1:eF:97:PRO:HD2	2:eN:65:ILE:O	2.16	0.44
1:eG:96:ASP:CB	2:eK:64:VAL:HG13	2.47	0.44
2:eI:226:LEU:HD23	2:eI:273:LYS:HE3	1.98	0.44
2:eM:69:ALA:HB2	2:ik:4:ILE:H	1.81	0.44
2:eN:274:ALA:CB	2:eN:297:VAL:HG21	2.46	0.44
1:eU:96:ASP:HB2	2:eY:64:VAL:HG13	1.99	0.44
2:fm:117:LEU:HD21	2:fm:211:TYR:CA	2.45	0.44
2:fo:216:ARG:HB3	2:fo:219:VAL:HG12	2.00	0.44
1:fx:103:ARG:O	2:fD:62:GLN:NE2	2.50	0.44
2:fz:45:ASN:OD1	2:fz:75:ILE:HD12	2.18	0.44
2:fB:36:THR:HG22	2:fB:175:THR:HG22	2.00	0.44
2:fC:216:ARG:HB3	2:fC:219:VAL:HG12	2.00	0.44
2:fM:46:THR:HG22	2:fM:74:GLN:CG	2.48	0.44
2:fO:80:PHE:HA	2:fQ:59:TRP:HB3	1.99	0.44
2:fO:262:ASN:HA	2:fO:295:VAL:HG22	1.99	0.44
1:fZ:62:THR:HG22	1:fZ:63:VAL:N	2.31	0.44
2:gc:183:ILE:CG2	2:gc:207:ASP:HB2	2.47	0.44
2:gc:262:ASN:HA	2:gc:295:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gq:179:LEU:HD22	2:gq:209:TYR:HD2	1.82	0.44
2:gr:226:LEU:HD21	2:gr:273:LYS:HB3	1.99	0.44
1:gA:63:VAL:HG13	1:gA:74:ASP:HB3	1.99	0.44
1:gB:62:THR:HG22	1:gB:63:VAL:N	2.31	0.44
2:gD:141:HIS:CD2	2:gD:150:THR:HG1	2.33	0.44
1:gP:103:ARG:O	2:gV:62:GLN:NE2	2.50	0.44
2:gQ:30:THR:HG23	2:gQ:298:LEU:HD13	1.98	0.44
2:gQ:98:VAL:HG12	2:gQ:99:TYR:N	2.32	0.44
2:gS:264:LEU:HB2	2:gS:295:VAL:HG11	1.97	0.44
2:gT:185:GLN:OE1	2:gT:205:MET:HE3	2.17	0.44
2:he:46:THR:HG22	2:he:74:GLN:CG	2.48	0.44
2:hg:196:THR:OG1	2:my:185:GLN:NE2	2.50	0.44
2:hg:280:VAL:O	2:hg:289:ASN:ND2	2.50	0.44
2:hj:237:VAL:O	2:hj:241:LYS:HB3	2.18	0.44
1:hl:67:CYS:HA	1:hl:72:CYS:HA	2.00	0.44
2:ht:61:GLY:CA	1:kk:103:ARG:NH1	2.70	0.44
2:ht:65:ILE:HD12	2:hw:203:VAL:HG13	1.99	0.44
1:hE:103:ARG:O	2:hJ:62:GLN:NE2	2.50	0.44
2:hG:196:THR:OG1	2:kE:185:GLN:NE2	2.50	0.44
1:hL:63:VAL:HG12	1:hL:75:LYS:H	1.82	0.44
2:hU:96:LEU:HB2	2:hU:98:VAL:HG22	1.99	0.44
2:hV:185:GLN:OE1	2:hV:205:MET:HE3	2.17	0.44
2:hX:274:ALA:CB	2:hX:297:VAL:HG21	2.46	0.44
1:if:103:ARG:O	2:il:62:GLN:NE2	2.50	0.44
2:ii:23:ALA:C	2:ii:24:LEU:HD22	2.41	0.44
1:it:103:ARG:O	2:iz:62:GLN:NE2	2.50	0.44
2:ix:226:LEU:HD21	2:ix:273:LYS:HB3	1.99	0.44
2:iK:183:ILE:CG2	2:iK:207:ASP:HB2	2.47	0.44
2:iK:244:ASP:OD1	2:iK:245:ALA:N	2.50	0.44
2:iK:291:ASN:C	2:iK:294:LEU:HD22	2.42	0.44
2:iM:57:ARG:HD3	2:iM:58:GLU:N	2.32	0.44
2:iW:258:ASP:OD1	2:iW:260:ARG:NH1	2.50	0.44
2:iZ:4:ILE:CG2	1:jh:91:GLU:HB2	2.47	0.44
1:jj:103:ARG:O	2:jp:62:GLN:NE2	2.50	0.44
2:jk:98:VAL:HG12	2:jk:99:TYR:N	2.33	0.44
1:jw:96:ASP:CB	2:jA:64:VAL:HG13	2.47	0.44
1:jx:103:ARG:O	2:jD:62:GLN:NE2	2.50	0.44
2:jy:98:VAL:HG12	2:jy:99:TYR:N	2.32	0.44
2:jA:96:LEU:HB2	2:jA:98:VAL:HG22	1.99	0.44
2:jB:185:GLN:NE2	2:kc:196:THR:OG1	2.50	0.44
2:jC:226:LEU:HD23	2:jC:227:ALA:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jO:244:ASP:OD1	2:jO:245:ALA:N	2.50	0.44
2:jP:234:LEU:HA	2:jP:238:ASN:OD1	2.17	0.44
1:jV:102:GLU:CD	1:mS:99:LEU:CA	2.87	0.44
2:ka:46:THR:HG22	2:ka:74:GLN:CG	2.48	0.44
2:ka:193:THR:HG22	2:ls:193:THR:HG23	2.00	0.44
2:kc:179:LEU:HD22	2:kc:209:TYR:HD2	1.82	0.44
2:kc:291:ASN:C	2:kc:294:LEU:HD22	2.42	0.44
2:ke:226:LEU:HD23	2:ke:227:ALA:N	2.32	0.44
2:kf:89:THR:N	2:kf:200:ASP:OD2	2.36	0.44
2:ko:258:ASP:OD1	2:ko:260:ARG:NH1	2.50	0.44
2:kB:30:THR:HG23	2:kB:298:LEU:HD13	1.98	0.44
2:kC:192:PHE:HZ	2:kH:196:THR:HG21	1.83	0.44
2:kH:183:ILE:HD12	2:kH:183:ILE:H	1.82	0.44
1:kO:103:ARG:O	2:kU:62:GLN:NE2	2.50	0.44
2:kU:200:ASP:N	2:kU:200:ASP:OD1	2.50	0.44
2:kV:183:ILE:HD12	2:kV:183:ILE:H	1.82	0.44
2:ld:46:THR:HG22	2:ld:74:GLN:CG	2.48	0.44
2:lf:196:THR:OG1	2:oG:185:GLN:NE2	2.50	0.44
2:lh:226:LEU:HD23	2:lh:227:ALA:N	2.32	0.44
2:lu:208:GLU:OE1	2:lu:210:ARG:NE	2.49	0.44
2:lI:37:VAL:O	2:lI:37:VAL:HG13	2.17	0.44
2:lK:200:ASP:N	2:lK:200:ASP:OD1	2.50	0.44
2:lK:237:VAL:O	2:lK:241:LYS:HB3	2.18	0.44
2:lW:36:THR:HG22	2:lW:175:THR:HG22	2.00	0.44
2:lW:37:VAL:HG13	2:lW:37:VAL:O	2.17	0.44
2:lW:234:LEU:HA	2:lW:238:ASN:OD1	2.17	0.44
1:mj:96:ASP:CB	2:mj:64:VAL:HG13	2.47	0.44
2:mj:244:ASP:OD1	2:mj:245:ALA:N	2.50	0.44
1:mo:57:VAL:HB	1:mo:59:VAL:HG23	1.99	0.44
1:mt:63:VAL:HG13	1:mt:74:ASP:HB3	1.99	0.44
2:mO:237:VAL:O	2:mO:241:LYS:HB3	2.18	0.44
1:mU:57:VAL:O	1:mU:59:VAL:HG23	2.17	0.44
2:na:185:GLN:OE1	2:na:205:MET:HE3	2.17	0.44
1:nj:96:ASP:CB	2:nn:64:VAL:HG13	2.47	0.44
2:nn:183:ILE:CG2	2:nn:207:ASP:HB2	2.47	0.44
2:nn:291:ASN:C	2:nn:294:LEU:HD22	2.42	0.44
1:nv:63:VAL:HG23	1:nv:99:LEU:CD1	2.42	0.44
1:nx:96:ASP:CB	2:nB:64:VAL:HG13	2.47	0.44
2:nB:80:PHE:HA	2:nD:59:TRP:HB3	1.99	0.44
2:nD:57:ARG:HD3	2:nD:58:GLU:N	2.32	0.44
1:nL:67:CYS:HA	1:nL:72:CYS:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:nL:96:ASP:CB	2:nP:64:VAL:HG13	2.47	0.44
2:nN:98:VAL:HG12	2:nN:99:TYR:N	2.33	0.44
2:nP:65:ILE:HD12	2:nS:203:VAL:HG13	1.99	0.44
2:nQ:79:LEU:HD12	2:nQ:79:LEU:C	2.42	0.44
2:ob:46:THR:HG22	2:ob:74:GLN:CG	2.48	0.44
2:od:80:PHE:HA	2:of:59:TRP:HB3	1.99	0.44
2:oe:36:THR:HG22	2:oe:175:THR:HG22	2.00	0.44
2:or:53:PHE:O	2:or:255:ARG:NH2	2.43	0.44
2:or:65:ILE:HD12	2:ou:203:VAL:HG13	1.99	0.44
2:or:179:LEU:HD22	2:or:209:TYR:HD2	1.82	0.44
2:or:280:VAL:O	2:or:289:ASN:ND2	2.50	0.44
2:oF:65:ILE:HD12	2:oI:203:VAL:HG13	1.99	0.44
2:oI:237:VAL:O	2:oI:241:LYS:HB3	2.18	0.44
2:oS:43:ALA:O	2:oS:77:ASN:ND2	2.50	0.44
2:oT:291:ASN:C	2:oT:294:LEU:HD22	2.42	0.44
2:oX:166:PRO:HG3	2:oX:259:ILE:HG23	1.98	0.44
1:pe:103:ARG:O	2:pk:62:GLN:NE2	2.50	0.44
2:pf:30:THR:HG23	2:pf:298:LEU:HD13	1.98	0.44
2:ph:183:ILE:CG2	2:ph:207:ASP:HB2	2.47	0.44
2:ph:244:ASP:OD1	2:ph:245:ALA:N	2.50	0.44
2:pi:185:GLN:OE1	2:pi:205:MET:HE3	2.17	0.44
2:pi:226:LEU:HD21	2:pi:273:LYS:HB3	1.99	0.44
2:pi:234:LEU:HA	2:pi:238:ASN:OD1	2.17	0.44
2:pj:57:ARG:HD3	2:pj:58:GLU:N	2.32	0.44
1:pm:63:VAL:HG12	1:pm:75:LYS:H	1.82	0.44
2:pv:96:LEU:HB2	2:pv:98:VAL:HG22	1.99	0.44
2:pv:179:LEU:HD22	2:pv:209:TYR:HD2	1.82	0.44
2:px:57:ARG:HD3	2:px:58:GLU:N	2.32	0.44
1:pF:67:CYS:HA	1:pF:72:CYS:HA	1.98	0.44
2:pX:262:ASN:HA	2:pX:295:VAL:HG22	2.00	0.44
2:pX:291:ASN:C	2:pX:294:LEU:HD22	2.42	0.44
2:pY:37:VAL:HG13	2:pY:37:VAL:O	2.17	0.44
2:pY:226:LEU:HD21	2:pY:273:LYS:HB3	1.99	0.44
2:qb:183:ILE:HD12	2:qb:183:ILE:H	1.82	0.44
1:qc:59:VAL:HG12	1:qc:61:ALA:N	2.29	0.44
4:qj:48:GLU:HG2	4:qj:57:VAL:HG11	1.98	0.44
4:qn:238:THR:CG2	4:qo:50:TYR:OH	2.52	0.44
6:qq:123:ASN:HB3	5:qL:239:TYR:CZ	2.52	0.44
5:qv:392:LEU:HD12	5:qx:400:TYR:HE1	1.58	0.44
5:qF:380:MET:CE	5:qF:403:LEU:HD21	2.44	0.44
2:ah:43:ALA:O	2:ah:77:ASN:ND2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ah:192:PHE:HZ	2:am:196:THR:HG21	1.83	0.44
2:ai:96:LEU:HB2	2:ai:98:VAL:HG22	1.99	0.44
2:ai:291:ASN:C	2:ai:294:LEU:HD22	2.42	0.44
2:al:200:ASP:N	2:al:200:ASP:OD1	2.50	0.44
1:ar:57:VAL:O	1:ar:59:VAL:HG23	2.17	0.44
1:as:63:VAL:HG13	1:as:74:ASP:HB3	1.99	0.44
2:az:166:PRO:HG3	2:az:259:ILE:HG23	1.98	0.44
2:az:238:ASN:O	2:az:242:VAL:HG13	2.17	0.44
2:aH:98:VAL:HG12	2:aH:99:TYR:N	2.33	0.44
2:aI:45:ASN:OD1	2:aI:75:ILE:HD12	2.18	0.44
2:aL:69:ALA:HB2	2:kT:4:ILE:H	1.81	0.44
2:aW:43:ALA:O	2:aW:77:ASN:ND2	2.50	0.44
1:be:99:LEU:HD23	1:iR:102:GLU:HB3	1.96	0.44
2:bm:37:VAL:O	2:bm:37:VAL:HG13	2.17	0.44
2:bm:234:LEU:HA	2:bm:238:ASN:OD1	2.17	0.44
2:bn:69:ALA:HB2	2:ja:4:ILE:H	1.81	0.44
1:bv:96:ASP:CB	2:bz:64:VAL:HG13	2.47	0.44
2:bA:36:THR:HG22	2:bA:175:THR:HG22	2.00	0.44
1:bI:57:VAL:O	1:bI:59:VAL:HG23	2.17	0.44
1:bK:100:LYS:NZ	1:hL:100:LYS:CD	2.71	0.44
2:bM:280:VAL:O	2:bM:289:ASN:ND2	2.50	0.44
2:bQ:188:MET:CE	5:qp:34:GLN:HE21	2.22	0.44
1:bV:91:GLU:HB2	2:dt:4:ILE:CG2	2.46	0.44
2:bY:226:LEU:HD23	2:bY:273:LYS:HE3	1.98	0.44
2:ca:262:ASN:HA	2:ca:295:VAL:HG22	2.00	0.44
2:cb:226:LEU:HD21	2:cb:273:LYS:HB3	1.99	0.44
1:ch:99:LEU:HD23	1:jf:102:GLU:HB3	1.96	0.44
2:co:244:ASP:OD1	2:co:245:ALA:N	2.50	0.44
2:cq:226:LEU:HD23	2:cq:227:ALA:N	2.32	0.44
2:cr:237:VAL:O	2:cr:241:LYS:HB3	2.18	0.44
2:cr:274:ALA:CB	2:cr:297:VAL:HG21	2.46	0.44
2:cA:46:THR:HG22	2:cA:74:GLN:CG	2.48	0.44
2:cE:4:ILE:H	2:pL:69:ALA:HB2	1.81	0.44
2:cG:62:GLN:HE22	1:pB:104:CYS:HA	1.82	0.44
1:cN:103:ARG:O	2:cT:62:GLN:NE2	2.50	0.44
2:cQ:280:VAL:O	2:cQ:289:ASN:ND2	2.50	0.44
2:cS:69:ALA:HB2	2:px:4:ILE:H	1.81	0.44
1:cV:63:VAL:HG12	1:cV:75:LYS:H	1.82	0.44
2:dd:45:ASN:OD1	2:dd:75:ILE:HD12	2.18	0.44
2:di:14:THR:CG2	2:eJ:12:LEU:HD21	2.46	0.44
2:di:62:GLN:HE22	1:dy:104:CYS:HA	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dq:98:VAL:HG12	2:dq:99:TYR:N	2.33	0.44
2:ds:65:ILE:HD12	2:dv:203:VAL:HG13	1.99	0.44
2:ds:183:ILE:CG2	2:ds:207:ASP:HB2	2.47	0.44
2:ds:280:VAL:O	2:ds:289:ASN:ND2	2.50	0.44
2:dE:43:ALA:O	2:dE:44:SER:OG	2.20	0.44
2:dF:192:PHE:HZ	2:dK:196:THR:HG21	1.83	0.44
1:dL:67:CYS:HA	1:dL:72:CYS:HA	2.00	0.44
2:dS:9:ILE:HD12	2:dS:12:LEU:HG	1.99	0.44
2:dT:43:ALA:O	2:dT:77:ASN:ND2	2.50	0.44
2:dV:234:LEU:HA	2:dV:238:ASN:OD1	2.17	0.44
1:ee:96:ASP:HB2	2:ei:64:VAL:HG13	1.99	0.44
1:ef:99:LEU:HD23	1:nG:102:GLU:CG	2.18	0.44
2:eg:98:VAL:HG12	2:eg:99:TYR:N	2.33	0.44
2:eh:192:PHE:HZ	2:em:196:THR:HG21	1.83	0.44
2:ei:96:LEU:HB2	2:ei:98:VAL:HG22	1.99	0.44
2:ei:244:ASP:OD1	2:ei:245:ALA:N	2.50	0.44
1:es:86:SER:O	1:es:90:LEU:N	2.50	0.44
2:eu:226:LEU:HD23	2:eu:273:LYS:HE3	1.99	0.44
2:eu:258:ASP:OD1	2:eu:260:ARG:NH1	2.50	0.44
2:ev:57:ARG:NH2	2:ev:58:GLU:O	2.48	0.44
2:ey:216:ARG:HB3	2:ey:219:VAL:HG12	1.99	0.44
2:eA:166:PRO:HG3	2:eA:259:ILE:HG23	1.98	0.44
1:eB:57:VAL:HB	1:eB:59:VAL:HG23	1.99	0.44
2:eO:183:ILE:HD12	2:eO:183:ILE:H	1.83	0.44
2:eY:96:LEU:HB2	2:eY:98:VAL:HG22	1.99	0.44
1:fi:96:ASP:CB	2:fm:64:VAL:HG13	2.47	0.44
1:fi:96:ASP:HB2	2:fm:64:VAL:HG13	1.98	0.44
2:fm:244:ASP:OD1	2:fm:245:ALA:N	2.50	0.44
2:fy:46:THR:HG22	2:fy:74:GLN:CG	2.48	0.44
2:fz:44:SER:OG	2:fz:75:ILE:O	2.21	0.44
2:fA:65:ILE:HD12	2:fD:203:VAL:HG13	1.99	0.44
2:fA:96:LEU:HB2	2:fA:98:VAL:HG22	1.99	0.44
2:fA:196:THR:OG1	2:oe:185:GLN:NE2	2.50	0.44
2:fE:183:ILE:HD12	2:fE:183:ILE:H	1.82	0.44
1:fK:59:VAL:HG13	1:fK:59:VAL:O	2.18	0.44
1:fK:86:SER:O	1:fK:90:LEU:N	2.51	0.44
2:fQ:216:ARG:HB3	2:fQ:219:VAL:HG12	2.00	0.44
2:FR:237:VAL:O	2:FR:241:LYS:HB3	2.18	0.44
2:fS:62:GLN:HE22	1:mp:104:CYS:HA	1.82	0.44
1:fY:96:ASP:CB	2:gc:64:VAL:HG13	2.47	0.44
2:gd:185:GLN:NE2	2:nB:196:THR:OG1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:go:46:THR:HG22	2:go:74:GLN:CG	2.48	0.44
2:gp:45:ASN:OD1	2:gp:75:ILE:HD12	2.18	0.44
2:gq:291:ASN:C	2:gq:294:LEU:HD22	2.42	0.44
2:gs:216:ARG:HB3	2:gs:219:VAL:HG12	2.00	0.44
2:gE:291:ASN:C	2:gE:294:LEU:HD22	2.42	0.44
2:gH:237:VAL:O	2:gH:241:LYS:HB3	2.18	0.44
1:gO:67:CYS:HA	1:gO:72:CYS:HA	1.98	0.44
2:gQ:62:GLN:OE1	1:lQ:102:GLU:HG2	2.02	0.44
2:gV:200:ASP:N	2:gV:200:ASP:OD1	2.50	0.44
2:gV:237:VAL:O	2:gV:241:LYS:HB3	2.18	0.44
1:hb:57:VAL:O	1:hb:59:VAL:HG23	2.17	0.44
2:he:98:VAL:HG12	2:he:99:TYR:N	2.32	0.44
2:hF:44:SER:OG	2:hF:75:ILE:O	2.21	0.44
1:hp:99:LEU:HD23	1:hr:60:ARG:CZ	2.46	0.44
1:hD:67:CYS:HA	1:hD:72:CYS:HA	1.98	0.44
2:hK:236:GLN:HB2	2:hK:240:GLU:HB3	2.00	0.44
1:hQ:86:SER:O	1:hQ:90:LEU:N	2.51	0.44
2:hS:98:VAL:HG12	2:hS:99:TYR:N	2.32	0.44
2:hT:192:PHE:HZ	2:hY:196:THR:HG21	1.83	0.44
2:hU:183:ILE:CG2	2:hU:207:ASP:HB2	2.47	0.44
2:ii:262:ASN:HA	2:ii:295:VAL:HG22	1.99	0.44
2:im:166:PRO:HG3	2:im:259:ILE:HG23	1.98	0.44
2:ix:36:THR:HG22	2:ix:175:THR:HG22	2.00	0.44
2:ix:234:LEU:HA	2:ix:238:ASN:OD1	2.17	0.44
1:iG:96:ASP:CB	2:iK:64:VAL:HG13	2.47	0.44
2:iJ:43:ALA:O	2:iJ:77:ASN:ND2	2.51	0.44
1:iV:103:ARG:O	2:jb:62:GLN:NE2	2.50	0.44
1:jR:63:VAL:HG12	1:jR:75:LYS:H	1.82	0.44
1:js:100:LYS:CB	1:lD:100:LYS:CE	2.92	0.44
2:jj:46:THR:HG22	2:jj:74:GLN:CG	2.48	0.44
1:jK:67:CYS:HA	1:jK:72:CYS:HA	1.98	0.44
1:jL:103:ARG:O	2:jR:62:GLN:NE2	2.50	0.44
2:jM:46:THR:HG22	2:jM:74:GLN:CG	2.48	0.44
2:jS:166:PRO:HG3	2:jS:259:ILE:HG23	1.98	0.44
1:jX:91:GLU:HB2	2:lu:4:ILE:CG2	2.46	0.44
2:kb:45:ASN:OD1	2:kb:75:ILE:HD12	2.18	0.44
1:km:96:ASP:CB	2:kp:64:VAL:HG13	2.47	0.44
2:kq:226:LEU:HD21	2:kq:273:LYS:HB3	1.99	0.44
2:kD:80:PHE:HA	2:kF:59:TRP:HB3	1.99	0.44
2:kD:262:ASN:HA	2:kD:295:VAL:HG22	1.99	0.44
2:kF:226:LEU:HD23	2:kF:227:ALA:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kR:23:ALA:C	2:kR:24:LEU:HD22	2.41	0.44
2:kV:238:ASN:O	2:kV:242:VAL:HG13	2.17	0.44
1:kW:57:VAL:HB	1:kW:59:VAL:HG23	1.99	0.44
1:kX:99:LEU:HD11	1:nj:102:GLU:CG	2.42	0.44
1:lk:63:VAL:HG12	1:lk:75:LYS:H	1.82	0.44
2:lt:65:ILE:HD12	2:lw:203:VAL:HG13	1.99	0.44
2:lt:244:ASP:OD1	2:lt:245:ALA:N	2.50	0.44
1:lC:57:VAL:O	1:lC:59:VAL:HG23	2.17	0.44
1:lD:96:ASP:HB2	2:lH:64:VAL:HG13	1.98	0.44
2:lF:98:VAL:HG12	2:lF:99:TYR:N	2.32	0.44
2:lF:193:THR:HG22	2:mY:193:THR:HG23	2.00	0.44
2:lJ:216:ARG:HB3	2:lJ:219:VAL:HG12	2.00	0.44
1:lS:62:THR:HG22	1:lS:63:VAL:N	2.31	0.44
2:lV:80:PHE:HA	2:lX:59:TRP:HB3	1.99	0.44
2:lV:96:LEU:HB2	2:lV:98:VAL:HG22	1.99	0.44
2:lV:291:ASN:C	2:lV:294:LEU:HD22	2.42	0.44
1:me:57:VAL:O	1:me:59:VAL:HG23	2.17	0.44
2:mj:280:VAL:O	2:mj:289:ASN:ND2	2.50	0.44
2:mw:12:LEU:HD21	2:oJ:14:THR:CG2	2.46	0.44
2:my:36:THR:HG22	2:my:175:THR:HG22	2.00	0.44
2:mA:237:VAL:O	2:mA:241:LYS:HB3	2.18	0.44
1:mC:57:VAL:HB	1:mC:59:VAL:HG23	1.99	0.44
1:mI:103:ARG:O	2:mO:62:GLN:NE2	2.50	0.44
2:mK:192:PHE:HZ	2:mP:196:THR:HG21	1.83	0.44
2:mL:63:ARG:HE	2:mO:205:MET:CE	2.30	0.44
2:mL:65:ILE:HD12	2:mO:203:VAL:HG13	1.99	0.44
2:mL:291:ASN:C	2:mL:294:LEU:HD22	2.42	0.44
1:mV:63:VAL:HG13	1:mV:74:ASP:HB3	1.99	0.44
2:mY:43:ALA:O	2:mY:77:ASN:ND2	2.50	0.44
2:nl:46:THR:HG22	2:nl:74:GLN:CG	2.48	0.44
2:np:57:ARG:HD3	2:np:58:GLU:N	2.32	0.44
2:np:216:ARG:HB3	2:np:219:VAL:HG12	1.99	0.44
2:np:226:LEU:HD23	2:np:227:ALA:N	2.32	0.44
2:nr:183:ILE:HD12	2:nr:183:ILE:H	1.82	0.44
2:nz:9:ILE:HD12	2:nz:12:LEU:HG	1.99	0.44
2:nB:244:ASP:OD1	2:nB:245:ALA:N	2.50	0.44
1:nI:99:LEU:HD23	1:pa:102:GLU:HB3	1.96	0.44
2:nS:274:ALA:CB	2:nS:297:VAL:HG21	2.46	0.44
2:ob:98:VAL:HG12	2:ob:99:TYR:N	2.32	0.44
2:oc:43:ALA:O	2:oc:77:ASN:ND2	2.50	0.44
2:oc:192:PHE:HZ	2:oh:196:THR:HG21	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oq:192:PHE:HZ	2:ov:196:THR:HG21	1.83	0.44
2:os:185:GLN:NE2	2:ot:196:THR:OG1	2.50	0.44
2:os:226:LEU:HD21	2:os:273:LYS:HB3	1.99	0.44
2:of:179:LEU:HD22	2:of:209:TYR:HD2	1.82	0.44
2:og:36:THR:HG22	2:og:175:THR:HG22	2.00	0.44
1:op:63:VAL:HG13	1:op:74:ASP:HB3	1.99	0.44
2:ou:36:THR:HG22	2:ou:175:THR:HG22	2.00	0.44
2:ov:226:LEU:HD23	2:ov:227:ALA:N	2.32	0.44
1:pd:67:CYS:HA	1:pd:72:CYS:HA	1.98	0.44
2:pl:183:ILE:HD12	2:pl:183:ILE:H	1.82	0.44
2:pw:37:VAL:O	2:pw:37:VAL:HG13	2.17	0.44
2:pz:183:ILE:HD12	2:pz:183:ILE:H	1.82	0.44
2:pH:98:VAL:HG12	2:pH:99:TYR:N	2.33	0.44
2:pJ:226:LEU:HD22	2:pJ:270:LEU:HD22	2.00	0.44
2:pJ:291:ASN:C	2:pJ:294:LEU:HD22	2.42	0.44
2:pL:226:LEU:HD23	2:pL:227:ALA:N	2.32	0.44
2:pN:183:ILE:HD12	2:pN:183:ILE:H	1.82	0.44
2:pW:45:ASN:OD1	2:pW:75:ILE:HD12	2.18	0.44
3:qg:66:GLN:C	4:qk:8:TYR:HD2	2.24	0.44
4:qn:87:LYS:HE3	4:qo:245:ASP:HA	1.50	0.44
5:qt:380:MET:SD	5:qt:384:ILE:CD1	3.05	0.44
6:qu:112:LEU:HD23	6:qw:58:LEU:CB	2.43	0.44
6:qu:112:LEU:HD21	6:qw:58:LEU:HD12	0.51	0.44
5:qB:392:LEU:CD1	5:qD:400:TYR:HH	2.27	0.44
5:qH:385:PRO:HA	5:qH:388:VAL:HG22	1.98	0.44
2:ag:193:THR:HG22	2:oc:193:THR:HG23	1.99	0.44
1:ap:99:LEU:CA	1:hN:102:GLU:CD	2.87	0.44
2:av:63:ARG:HE	2:ay:205:MET:CE	2.30	0.44
2:aw:37:VAL:O	2:aw:37:VAL:HG13	2.17	0.44
2:aw:185:GLN:NE2	2:ds:196:THR:OG1	2.50	0.44
1:aQ:99:LEU:CA	1:ch:102:GLU:CD	2.87	0.44
1:aT:63:VAL:HG13	1:aT:74:ASP:HB3	1.99	0.44
1:aU:103:ARG:O	2:ba:62:GLN:NE2	2.50	0.44
2:aV:193:THR:HG22	2:iJ:193:THR:HG23	1.99	0.44
2:aX:63:ARG:HE	2:ba:205:MET:CE	2.30	0.44
2:aX:280:VAL:O	2:aX:289:ASN:ND2	2.50	0.44
2:aZ:69:ALA:HB2	2:cq:4:ILE:H	1.81	0.44
2:ba:237:VAL:O	2:ba:241:LYS:HB3	2.18	0.44
2:bb:238:ASN:O	2:bb:242:VAL:HG13	2.17	0.44
2:bl:96:LEU:HB2	2:bl:98:VAL:HG22	1.99	0.44
2:bl:196:THR:OG1	2:iZ:185:GLN:NE2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bm:185:GLN:NE2	2:kp:196:THR:OG1	2.50	0.44
2:by:43:ALA:O	2:by:77:ASN:ND2	2.50	0.44
2:by:57:ARG:NH2	2:by:58:GLU:O	2.48	0.44
2:bz:244:ASP:OD1	2:bz:245:ALA:N	2.50	0.44
2:bA:185:GLN:NE2	2:ca:196:THR:OG1	2.50	0.44
2:bL:189:LYS:O	2:bL:190:PRO:C	2.61	0.44
2:bM:244:ASP:OD1	2:bM:245:ALA:N	2.50	0.44
2:bO:216:ARG:HB3	2:bO:219:VAL:HG12	2.00	0.44
2:bO:226:LEU:HD23	2:bO:227:ALA:N	2.32	0.44
2:bQ:62:GLN:HE22	1:gi:104:CYS:HA	1.82	0.44
2:bQ:188:MET:HE2	5:qp:34:GLN:NE2	2.20	0.44
2:bZ:45:ASN:OD1	2:bZ:75:ILE:HD12	2.18	0.44
2:cd:200:ASP:OD1	2:cd:200:ASP:N	2.50	0.44
2:ce:183:ILE:HD12	2:ce:183:ILE:H	1.82	0.44
1:cj:57:VAL:O	1:cj:59:VAL:HG23	2.17	0.44
1:ck:96:ASP:CB	2:co:64:VAL:HG13	2.47	0.44
1:cl:103:ARG:O	2:cr:62:GLN:NE2	2.50	0.44
2:cn:43:ALA:O	2:cn:77:ASN:ND2	2.50	0.44
2:cs:238:ASN:O	2:cs:242:VAL:HG13	2.17	0.44
1:cv:102:GLU:HB3	1:pC:99:LEU:HD23	1.96	0.44
2:cC:53:PHE:O	2:cC:255:ARG:NH2	2.43	0.44
2:cD:185:GLN:OE1	2:cD:205:MET:HE3	2.17	0.44
2:cD:234:LEU:HA	2:cD:238:ASN:OD1	2.17	0.44
2:cE:62:GLN:HE21	2:nS:197:LYS:HZ1	1.63	0.44
2:cE:107:GLY:CA	2:cE:184:TYR:CZ	2.97	0.44
2:cO:9:ILE:HD12	2:cO:12:LEU:HG	1.99	0.44
2:cP:43:ALA:O	2:cP:77:ASN:ND2	2.50	0.44
2:cQ:96:LEU:HB2	2:cQ:98:VAL:HG22	1.99	0.44
1:cV:67:CYS:HA	1:cV:72:CYS:HA	2.00	0.44
1:dj:63:VAL:HG12	1:dj:75:LYS:H	1.82	0.44
2:dq:9:ILE:HD12	2:dq:12:LEU:HG	1.99	0.44
2:dt:79:LEU:HD12	2:dt:79:LEU:C	2.42	0.44
2:dv:200:ASP:N	2:dv:200:ASP:OD1	2.50	0.44
2:dG:291:ASN:C	2:dG:294:LEU:HD22	2.42	0.44
1:dM:100:LYS:CB	1:jK:100:LYS:CE	2.92	0.44
1:dP:91:GLU:HB2	2:oU:4:ILE:CG2	2.46	0.44
2:dU:183:ILE:CG2	2:dU:207:ASP:HB2	2.47	0.44
2:dU:244:ASP:OD1	2:dU:245:ALA:N	2.50	0.44
2:dV:267:PRO:HD2	2:dV:270:LEU:HD12	1.98	0.44
1:ea:99:LEU:HD11	1:mf:102:GLU:CG	2.42	0.44
1:ec:103:ARG:NH1	2:ew:61:GLY:CA	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eg:30:THR:HG23	2:eg:298:LEU:HD13	1.98	0.44
2:eu:98:VAL:HG12	2:eu:99:TYR:N	2.33	0.44
2:eK:96:LEU:HB2	2:eK:98:VAL:HG22	1.99	0.44
2:eK:291:ASN:C	2:eK:294:LEU:HD22	2.42	0.44
2:eX:43:ALA:O	2:eX:77:ASN:ND2	2.50	0.44
2:fa:57:ARG:HD3	2:fa:58:GLU:N	2.32	0.44
1:fh:57:VAL:O	1:fh:59:VAL:HG23	2.17	0.44
1:fj:62:THR:HG22	1:fj:63:VAL:N	2.31	0.44
2:fn:79:LEU:HD12	2:fn:79:LEU:C	2.42	0.44
2:fn:234:LEU:HA	2:fn:238:ASN:OD1	2.17	0.44
2:fp:237:VAL:O	2:fp:241:LYS:HB3	2.18	0.44
1:ft:99:LEU:CA	1:nW:102:GLU:CD	2.87	0.44
2:fD:274:ALA:CB	2:fD:297:VAL:HG21	2.46	0.44
2:fO:226:LEU:HD22	2:fO:270:LEU:HD22	2.00	0.44
2:fP:185:GLN:NE2	2:mx:196:THR:OG1	2.50	0.44
2:gd:79:LEU:HD12	2:gd:79:LEU:C	2.42	0.44
1:gn:62:THR:HG22	1:gn:63:VAL:N	2.31	0.44
2:gs:57:ARG:HD3	2:gs:58:GLU:N	2.32	0.44
1:gZ:57:VAL:O	1:gZ:59:VAL:HG23	2.17	0.44
1:gN:57:VAL:O	1:gN:59:VAL:HG23	2.17	0.44
2:gS:80:PHE:HA	2:gU:59:TRP:HB3	1.99	0.44
2:gT:37:VAL:HG13	2:gT:37:VAL:O	2.17	0.44
1:gX:63:VAL:HG12	1:gX:75:LYS:H	1.82	0.44
1:hc:96:ASP:HB2	2:hg:64:VAL:HG13	1.98	0.44
2:he:30:THR:HG23	2:he:298:LEU:HD13	1.98	0.44
2:he:258:ASP:OD1	2:he:260:ARG:NH1	2.50	0.44
2:hF:193:THR:HG23	2:kB:193:THR:HG22	1.99	0.44
2:hg:53:PHE:O	2:hg:255:ARG:NH2	2.43	0.44
2:hg:96:LEU:HB2	2:hg:98:VAL:HG22	1.99	0.44
2:hi:69:ALA:HB2	2:mz:4:ILE:H	1.81	0.44
2:hk:183:ILE:HD12	2:hk:183:ILE:H	1.82	0.44
1:hm:100:LYS:CB	1:iU:100:LYS:CE	2.92	0.44
2:hs:46:THR:HG22	2:hs:74:GLN:CG	2.48	0.44
2:hu:226:LEU:HD21	2:hu:273:LYS:HB3	1.99	0.44
2:hv:226:LEU:HD23	2:hv:227:ALA:N	2.32	0.44
2:hX:236:GLN:HB2	2:hX:240:GLU:HB3	2.00	0.44
2:hH:234:LEU:HA	2:hH:238:ASN:OD1	2.17	0.44
2:hT:57:ARG:NH2	2:hT:58:GLU:O	2.48	0.44
2:hU:226:LEU:HD22	2:hU:270:LEU:HD22	2.00	0.44
2:hU:244:ASP:OD1	2:hU:245:ALA:N	2.50	0.44
2:hY:238:ASN:O	2:hY:242:VAL:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ii:80:PHE:HA	2:ik:59:TRP:HB3	1.99	0.44
2:ii:226:LEU:HD22	2:ii:270:LEU:HD22	2.00	0.44
2:ij:185:GLN:OE1	2:ij:205:MET:HE3	2.17	0.44
2:iu:226:LEU:HD23	2:iu:273:LYS:HE3	1.98	0.44
2:iw:244:ASP:OD1	2:iw:245:ALA:N	2.50	0.44
2:iw:262:ASN:HA	2:iw:295:VAL:HG22	1.99	0.44
2:ix:185:GLN:OE1	2:ix:205:MET:HE3	2.17	0.44
2:iJ:57:ARG:NH2	2:iJ:58:GLU:O	2.48	0.44
2:iL:185:GLN:OE1	2:iL:205:MET:HE3	2.17	0.44
2:iL:234:LEU:HA	2:iL:238:ASN:OD1	2.17	0.44
2:iW:189:LYS:O	2:iW:190:PRO:C	2.61	0.44
2:iZ:234:LEU:HA	2:iZ:238:ASN:OD1	2.17	0.44
2:jl:141:HIS:CD2	2:jl:150:THR:HG1	2.35	0.44
2:jm:65:ILE:HD12	2:jp:203:VAL:HG13	1.99	0.44
2:jz:45:ASN:OD1	2:jz:75:ILE:HD12	2.18	0.44
2:jB:36:THR:HG22	2:jB:175:THR:HG22	2.00	0.44
2:jD:237:VAL:O	2:jD:241:LYS:HB3	2.18	0.44
2:jO:63:ARG:HE	2:jR:205:MET:CE	2.30	0.44
2:jP:37:VAL:O	2:jP:37:VAL:HG13	2.17	0.44
1:jY:63:VAL:HG13	1:jY:74:ASP:HB3	1.99	0.44
1:jZ:62:THR:HG22	1:jZ:63:VAL:N	2.31	0.44
1:kh:63:VAL:HG12	1:kh:75:LYS:H	1.83	0.44
1:kh:67:CYS:HA	1:kh:72:CYS:HA	2.00	0.44
2:kp:96:LEU:HB2	2:kp:98:VAL:HG22	1.99	0.44
2:kp:183:ILE:CG2	2:kp:207:ASP:HB2	2.47	0.44
2:kp:280:VAL:O	2:kp:289:ASN:ND2	2.50	0.44
2:kB:46:THR:HG22	2:kB:74:GLN:CG	2.48	0.44
1:kN:96:ASP:CB	2:kR:64:VAL:HG13	2.47	0.44
2:kP:226:LEU:HD23	2:kP:273:LYS:HE3	1.98	0.44
2:lv:57:ARG:HD3	2:lv:58:GLU:N	2.32	0.44
2:lw:237:VAL:O	2:lw:241:LYS:HB3	2.18	0.44
2:lG:43:ALA:O	2:lG:77:ASN:ND2	2.50	0.44
2:mj:80:PHE:HA	2:ml:59:TRP:HB3	1.99	0.44
2:mm:237:VAL:O	2:mm:241:LYS:HB3	2.18	0.44
1:mo:63:VAL:HG12	1:mo:75:LYS:H	1.83	0.44
1:mp:99:LEU:HG	2:mz:62:GLN:HE22	1.83	0.44
1:mt:86:SER:O	1:mt:90:LEU:N	2.51	0.44
1:mt:96:ASP:HB2	2:mx:64:VAL:HG13	1.98	0.44
2:mv:18:LYS:HD2	2:mv:98:VAL:HG21	2.00	0.44
2:mw:43:ALA:O	2:mw:77:ASN:ND2	2.50	0.44
2:mw:192:PHE:HZ	2:mB:196:THR:HG21	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mL:61:GLY:CA	1:ol:103:ARG:NH1	2.70	0.44
1:mQ:57:VAL:HB	1:mQ:59:VAL:HG23	1.99	0.44
2:na:37:VAL:O	2:na:37:VAL:HG13	2.17	0.44
1:ne:57:VAL:HB	1:ne:59:VAL:HG23	1.99	0.44
1:ne:67:CYS:HA	1:ne:72:CYS:HA	2.00	0.44
1:nj:67:CYS:HA	1:nj:72:CYS:HA	1.98	0.44
2:nm:43:ALA:O	2:nm:77:ASN:ND2	2.50	0.44
2:nn:65:ILE:HD12	2:nq:203:VAL:HG13	1.99	0.44
2:nq:237:VAL:O	2:nq:241:LYS:HB3	2.18	0.44
2:nA:45:ASN:OD1	2:nA:75:ILE:HD12	2.18	0.44
2:nB:226:LEU:HD22	2:nB:270:LEU:HD22	2.00	0.44
2:nR:226:LEU:HD23	2:nR:227:ALA:N	2.32	0.44
1:oa:103:ARG:O	2:og:62:GLN:NE2	2.50	0.44
2:op:46:THR:HG22	2:op:74:GLN:CG	2.48	0.44
2:ov:183:ILE:HD12	2:ov:183:ILE:H	1.82	0.44
1:oS:62:THR:HG22	1:oS:63:VAL:N	2.31	0.44
2:OE:94:ASP:OD1	2:OE:95:ASN:N	2.51	0.44
2:OF:80:PHE:HA	2:OH:59:TRP:HB3	1.99	0.44
1:OK:57:VAL:HB	1:OK:59:VAL:HG23	1.99	0.44
1:OK:67:CYS:HA	1:OK:72:CYS:HA	2.00	0.44
2:OT:65:ILE:HD12	2:OW:203:VAL:HG13	1.99	0.44
2:OW:237:VAL:O	2:OW:241:LYS:HB3	2.18	0.44
2:OX:183:ILE:HD12	2:OX:183:ILE:H	1.82	0.44
1:pd:96:ASP:HB2	2:ph:64:VAL:HG13	1.98	0.44
2:ph:65:ILE:HD12	2:pk:203:VAL:HG13	1.99	0.44
2:pN:238:ASN:O	2:pN:242:VAL:HG13	2.17	0.44
2:qb:238:ASN:O	2:qb:242:VAL:HG13	2.17	0.44
3:qh:28:VAL:O	3:qh:28:VAL:HG12	2.17	0.44
3:qi:67:ARG:CA	4:qo:194:LEU:HD13	2.48	0.44
5:qp:284:PRO:CB	5:qr:227:LEU:HD21	2.48	0.44
5:qt:380:MET:HE3	5:qt:380:MET:HB3	1.91	0.44
6:qu:83:LEU:HD11	6:qu:89:VAL:HG13	2.00	0.44
5:qx:385:PRO:HA	5:qx:388:VAL:HG22	1.98	0.44
5:qz:399:VAL:O	5:qz:403:LEU:HD23	2.18	0.44
5:qJ:96:ARG:CD	5:qL:114:LEU:CD2	2.81	0.44
5:qJ:284:PRO:CB	5:qL:227:LEU:HD21	2.48	0.44
2:ag:246:MET:HE2	2:ag:259:ILE:CG2	2.48	0.44
2:aj:234:LEU:HA	2:aj:238:ASN:OD1	2.17	0.44
2:al:89:THR:N	2:al:200:ASP:OD2	2.36	0.44
2:am:236:GLN:HB2	2:am:240:GLU:HB3	2.00	0.44
1:an:63:VAL:HG12	1:an:75:LYS:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:au:61:GLY:CA	1:kl:103:ARG:HD2	2.40	0.44
1:aG:100:LYS:HZ1	1:kh:100:LYS:HD3	1.81	0.44
2:aJ:63:ARG:HE	2:aM:205:MET:CE	2.30	0.44
2:aJ:183:ILE:CG2	2:aJ:207:ASP:HB2	2.47	0.44
2:aL:216:ARG:HB3	2:aL:219:VAL:HG12	2.00	0.44
1:aO:63:VAL:HG12	1:aO:75:LYS:H	1.82	0.44
1:aT:96:ASP:HB2	2:aX:64:VAL:HG13	1.98	0.44
1:aT:96:ASP:CB	2:aX:64:VAL:HG13	2.47	0.44
2:aV:98:VAL:HG12	2:aV:99:TYR:N	2.33	0.44
2:aX:179:LEU:HD22	2:aX:209:TYR:HD2	1.82	0.44
2:aX:291:ASN:C	2:aX:294:LEU:HD22	2.42	0.44
2:aY:185:GLN:OE1	2:aY:205:MET:HE3	2.17	0.44
2:aZ:57:ARG:HD3	2:aZ:58:GLU:N	2.32	0.44
1:bh:96:ASP:CB	2:bl:64:VAL:HG13	2.47	0.44
2:bk:197:LYS:NZ	1:dn:98:LEU:O	2.47	0.44
2:bp:238:ASN:O	2:bp:242:VAL:HG13	2.17	0.44
1:br:100:LYS:CB	1:dC:100:LYS:CE	2.92	0.44
2:bx:46:THR:HG22	2:bx:74:GLN:CG	2.48	0.44
2:bx:98:VAL:HG12	2:bx:99:TYR:N	2.33	0.44
2:bN:36:THR:HG22	2:bN:175:THR:HG22	2.00	0.44
2:bN:234:LEU:HA	2:bN:238:ASN:OD1	2.17	0.44
1:bW:96:ASP:CB	2:ca:64:VAL:HG13	2.47	0.44
2:ca:96:LEU:HB2	2:ca:98:VAL:HG22	1.99	0.44
1:cl:67:CYS:HA	1:cl:72:CYS:HA	1.98	0.44
2:cp:37:VAL:O	2:cp:37:VAL:HG13	2.17	0.44
2:cs:236:GLN:HB2	2:cs:240:GLU:HB3	2.00	0.44
1:cu:99:LEU:HG	2:cE:62:GLN:HE22	1.83	0.44
2:cA:18:LYS:HD2	2:cA:98:VAL:HG21	2.00	0.44
2:cB:63:ARG:HE	2:pg:205:MET:HE2	1.72	0.44
1:cM:59:VAL:O	1:cM:59:VAL:HG13	2.18	0.44
2:cP:45:ASN:OD1	2:cP:75:ILE:HD12	2.18	0.44
1:db:99:LEU:HD23	1:eP:102:GLU:CG	2.19	0.44
2:df:36:THR:HG22	2:df:175:THR:HG22	2.00	0.44
1:do:96:ASP:HB2	2:ds:64:VAL:HG13	1.99	0.44
1:dC:59:VAL:O	1:dC:59:VAL:HG13	2.18	0.44
1:dD:62:THR:HG22	1:dD:63:VAL:N	2.31	0.44
2:dE:98:VAL:HG12	2:dE:99:TYR:N	2.32	0.44
2:dH:185:GLN:NE2	2:gE:196:THR:OG1	2.50	0.44
2:dI:57:ARG:HD3	2:dI:58:GLU:N	2.32	0.44
1:dQ:96:ASP:CB	2:dU:64:VAL:HG13	2.47	0.44
2:dT:219:VAL:O	2:dT:219:VAL:CG1	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dX:200:ASP:OD1	2:dX:200:ASP:N	2.50	0.44
2:ei:196:THR:OG1	2:fb:185:GLN:NE2	2.50	0.44
2:ei:280:VAL:O	2:ei:289:ASN:ND2	2.50	0.44
2:el:89:THR:N	2:el:200:ASP:OD2	2.36	0.44
2:ex:234:LEU:HA	2:ex:238:ASN:OD1	2.17	0.44
2:eI:46:THR:HG22	2:eI:74:GLN:CG	2.48	0.44
2:eJ:94:ASP:OD1	2:eJ:95:ASN:N	2.51	0.44
2:eK:196:THR:OG1	2:ij:185:GLN:NE2	2.50	0.44
2:eL:226:LEU:HD21	2:eL:273:LYS:HB3	1.99	0.44
2:eM:57:ARG:HD3	2:eM:58:GLU:N	2.32	0.44
2:eO:236:GLN:HB2	2:eO:240:GLU:HB3	2.00	0.44
2:fa:216:ARG:HB3	2:fa:219:VAL:HG12	2.00	0.44
2:fk:193:THR:HG22	2:gD:193:THR:HG23	1.99	0.44
2:fn:37:VAL:O	2:fn:37:VAL:HG13	2.17	0.44
2:fn:185:GLN:NE2	2:ii:196:THR:OG1	2.50	0.44
2:fy:246:MET:HE2	2:fy:259:ILE:CG2	2.48	0.44
2:fA:291:ASN:C	2:fA:294:LEU:HD22	2.42	0.44
2:fD:237:VAL:O	2:fD:241:LYS:HB3	2.18	0.44
1:fk:96:ASP:CB	2:fO:64:VAL:HG13	2.47	0.44
2:fM:226:LEU:HD23	2:fM:273:LYS:HE3	1.98	0.44
2:fP:36:THR:HG22	2:fP:175:THR:HG22	2.00	0.44
1:fT:63:VAL:HG12	1:fT:75:LYS:H	1.82	0.44
2:ga:98:VAL:HG12	2:ga:99:TYR:N	2.32	0.44
2:ge:226:LEU:HD23	2:ge:227:ALA:N	2.32	0.44
1:gm:59:VAL:HG13	1:gm:59:VAL:O	2.18	0.44
2:gq:80:PHE:HA	2:gs:59:TRP:HB3	1.99	0.44
2:gt:200:ASP:N	2:gt:200:ASP:OD1	2.50	0.44
1:gA:96:ASP:CB	2:gE:64:VAL:HG13	2.47	0.44
2:gC:226:LEU:HD23	2:gC:273:LYS:HE3	1.98	0.44
2:gD:94:ASP:OD1	2:gD:95:ASN:N	2.51	0.44
1:gJ:67:CYS:HA	1:gJ:72:CYS:HA	2.00	0.44
2:gQ:9:ILE:HD12	2:gQ:12:LEU:HG	1.99	0.44
2:gS:262:ASN:HA	2:gS:295:VAL:HG22	2.00	0.44
2:gT:226:LEU:HD21	2:gT:273:LYS:HB3	1.99	0.44
1:hc:96:ASP:CB	2:hg:64:VAL:HG13	2.47	0.44
1:hc:100:LYS:CE	1:ox:100:LYS:CB	2.92	0.44
1:hd:99:LEU:HD23	1:lM:102:GLU:CG	2.18	0.44
2:hF:57:ARG:NH2	2:hF:58:GLU:O	2.48	0.44
2:hw:274:ALA:CB	2:hw:297:VAL:HG21	2.46	0.44
2:hX:183:ILE:HD12	2:hX:183:ILE:H	1.82	0.44
2:hH:185:GLN:NE2	2:IV:196:THR:OG1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hQ:63:VAL:HG13	1:hQ:74:ASP:HB3	1.99	0.44
2:hY:183:ILE:HD12	2:hY:183:ILE:H	1.83	0.44
2:ig:246:MET:HE2	2:ig:259:ILE:CG2	2.48	0.44
2:ih:94:ASP:OD1	2:ih:95:ASN:N	2.51	0.44
2:ik:226:LEU:HD23	2:ik:227:ALA:N	2.32	0.44
1:in:57:VAL:HB	1:in:59:VAL:HG23	1.99	0.44
1:io:99:LEU:HG	2:iy:62:GLN:HE22	1.83	0.44
1:io:104:CYS:HA	2:qb:62:GLN:HE22	1.82	0.44
1:iq:99:LEU:CB	1:ll:102:GLU:OE1	2.62	0.44
1:is:96:ASP:CB	2:iw:64:VAL:HG13	2.47	0.44
2:iw:96:LEU:HB2	2:iw:98:VAL:HG22	1.99	0.44
2:ix:185:GLN:NE2	2:lt:196:THR:OG1	2.50	0.44
1:iD:102:GLU:CD	1:po:99:LEU:CA	2.87	0.44
1:iH:103:ARG:O	2:iN:62:GLN:NE2	2.50	0.44
2:iO:166:PRO:HG3	2:iO:259:ILE:HG23	1.98	0.44
1:iP:63:VAL:HG12	1:iP:75:LYS:H	1.82	0.44
2:iX:193:THR:HG23	2:jk:193:THR:HG22	1.99	0.44
2:jk:246:MET:HE2	2:jk:259:ILE:CG2	2.48	0.44
2:jm:291:ASN:C	2:jm:294:LEU:HD22	2.42	0.44
2:jQ:236:GLN:HB2	2:jQ:240:GLU:HB3	2.00	0.44
1:jK:59:VAL:O	1:jK:59:VAL:HG13	2.18	0.44
2:jP:185:GLN:NE2	2:or:196:THR:OG1	2.50	0.44
1:jV:60:ARG:HH21	1:mS:99:LEU:HD21	0.59	0.44
2:kd:79:LEU:HD12	2:kd:79:LEU:C	2.42	0.44
2:kd:185:GLN:NE2	2:mZ:196:THR:OG1	2.50	0.44
2:kg:183:ILE:HD12	2:kg:183:ILE:H	1.82	0.44
2:ko:46:THR:HG22	2:ko:74:GLN:CG	2.48	0.44
2:ko:189:LYS:O	2:ko:190:PRO:C	2.61	0.44
2:ko:226:LEU:HD23	2:ko:273:LYS:HE3	1.98	0.44
2:kE:79:LEU:HD12	2:kE:79:LEU:C	2.42	0.44
2:kS:37:VAL:O	2:kS:37:VAL:HG13	2.17	0.44
2:kT:216:ARG:HB3	2:kT:219:VAL:HG12	2.00	0.44
2:kU:274:ALA:CB	2:kU:297:VAL:HG21	2.46	0.44
1:lb:59:VAL:O	1:lb:59:VAL:HG13	2.18	0.44
2:le:45:ASN:OD1	2:le:75:ILE:HD12	2.18	0.44
2:lf:262:ASN:HA	2:lf:295:VAL:HG22	1.99	0.44
2:lg:37:VAL:O	2:lg:37:VAL:HG13	2.17	0.44
2:lh:216:ARG:HB3	2:lh:219:VAL:HG12	2.00	0.44
2:lj:236:GLN:HB2	2:lj:240:GLU:HB3	2.00	0.44
2:lr:98:VAL:HG12	2:lr:99:TYR:N	2.32	0.44
2:lu:185:GLN:OE1	2:lu:205:MET:HE3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ID:96:ASP:CB	2:IH:64:VAL:HG13	2.47	0.44
2:IF:18:LYS:HD2	2:IF:98:VAL:HG21	2.00	0.44
2:IF:182:LEU:HG	2:IF:182:LEU:O	2.16	0.44
2:IG:45:ASN:OD1	2:IG:75:ILE:HD12	2.18	0.44
1:IQ:99:LEU:HD23	1:IS:60:ARG:CZ	2.46	0.44
1:IR:96:ASP:CB	2:IV:64:VAL:HG13	2.47	0.44
2:IU:192:PHE:HZ	2:IZ:196:THR:HG21	1.83	0.44
2:IV:65:ILE:HD12	2:IY:203:VAL:HG13	1.99	0.44
2:IW:185:GLN:OE1	2:IW:205:MET:HE3	2.17	0.44
2:mi:282:ARG:HH11	2:mw:282:ARG:NH2	1.93	0.44
2:mj:262:ASN:HA	2:mj:295:VAL:HG22	2.00	0.44
1:ms:57:VAL:O	1:ms:59:VAL:HG23	2.17	0.44
2:mJ:9:ILE:HD12	2:mJ:12:LEU:HG	1.99	0.44
2:mM:226:LEU:HD21	2:mM:273:LYS:HB3	1.99	0.44
2:mO:200:ASP:N	2:mO:200:ASP:OD1	2.50	0.44
2:mZ:65:ILE:HD12	2:nc:203:VAL:HG13	1.99	0.44
2:mZ:80:PHE:HA	2:nb:59:TRP:HB3	1.99	0.44
2:na:267:PRO:HD2	2:na:270:LEU:HD12	1.98	0.44
1:nf:99:LEU:HG	2:np:62:GLN:HE22	1.83	0.44
1:nj:63:VAL:HG13	1:nj:74:ASP:HB3	1.99	0.44
2:nn:179:LEU:HD22	2:nn:209:TYR:HD2	1.82	0.44
2:nz:46:THR:HG22	2:nz:74:GLN:CG	2.48	0.44
2:nA:43:ALA:O	2:nA:77:ASN:ND2	2.50	0.44
2:nC:234:LEU:HA	2:nC:238:ASN:OD1	2.17	0.44
1:nH:104:CYS:HA	2:pl:62:GLN:HE22	1.82	0.44
1:nL:86:SER:O	1:nL:90:LEU:N	2.51	0.44
1:nM:62:THR:HG22	1:nM:63:VAL:N	2.31	0.44
2:nP:280:VAL:O	2:nP:289:ASN:ND2	2.50	0.44
2:nQ:185:GLN:OE1	2:nQ:205:MET:HE3	2.17	0.44
1:nZ:63:VAL:HG13	1:nZ:74:ASP:HB3	1.99	0.44
2:oc:45:ASN:OD1	2:oc:75:ILE:HD12	2.18	0.44
2:of:57:ARG:HD3	2:of:58:GLU:N	2.32	0.44
2:oh:236:GLN:HB2	2:oh:240:GLU:HB3	2.00	0.44
2:ot:57:ARG:HD3	2:ot:58:GLU:N	2.32	0.44
2:ot:226:LEU:HD23	2:ot:227:ALA:N	2.32	0.44
2:oE:192:PHE:HZ	2:oJ:196:THR:HG21	1.83	0.44
2:oF:262:ASN:HA	2:oF:295:VAL:HG22	2.00	0.44
1:oP:96:ASP:CB	2:oT:64:VAL:HG13	2.47	0.44
2:oV:57:ARG:HD3	2:oV:58:GLU:N	2.32	0.44
2:oW:274:ALA:CB	2:oW:297:VAL:HG21	2.46	0.44
2:pf:46:THR:HG22	2:pf:74:GLN:CG	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ph:262:ASN:HA	2:ph:295:VAL:HG22	1.99	0.44
2:pw:36:THR:HG22	2:pw:175:THR:HG22	2.00	0.44
1:pF:59:VAL:O	1:pF:59:VAL:HG13	2.18	0.44
2:pJ:179:LEU:HD22	2:pJ:209:TYR:HD2	1.82	0.44
2:pL:57:ARG:HD3	2:pL:58:GLU:N	2.32	0.44
1:pO:57:VAL:HB	1:pO:59:VAL:HG23	1.99	0.44
2:pW:44:SER:OG	2:pW:75:ILE:O	2.21	0.44
2:pZ:57:ARG:HD3	2:pZ:58:GLU:N	2.32	0.44
3:qe:28:VAL:O	3:qe:28:VAL:HG12	2.17	0.44
3:qi:66:GLN:CG	4:qo:8:TYR:O	2.66	0.44
6:qq:112:LEU:CD2	6:qs:58:LEU:HD12	1.00	0.44
5:qr:284:PRO:CB	5:qt:227:LEU:HD21	2.47	0.44
5:qx:284:PRO:CB	5:qz:227:LEU:HD21	2.47	0.44
5:qx:399:VAL:O	5:qx:403:LEU:HD23	2.18	0.44
5:qz:284:PRO:CB	5:qB:227:LEU:HD21	2.48	0.44
5:qz:380:MET:SD	5:qz:384:ILE:CD1	3.05	0.44
5:qB:284:PRO:CB	5:qD:227:LEU:HD21	2.47	0.44
6:qE:112:LEU:HD21	6:qG:58:LEU:HD12	0.51	0.44
1:ab:99:LEU:HD21	1:ng:60:ARG:HH21	0.59	0.44
1:af:103:ARG:O	2:al:62:GLN:NE2	2.50	0.44
1:as:67:CYS:HA	1:as:72:CYS:HA	1.98	0.44
2:au:30:THR:HG23	2:au:298:LEU:HD13	1.98	0.44
1:aC:60:ARG:HH21	1:hn:99:LEU:HD21	0.59	0.44
1:aF:96:ASP:CB	2:aJ:64:VAL:HG13	2.47	0.44
2:aI:57:ARG:NH2	2:aI:58:GLU:O	2.48	0.44
2:aK:234:LEU:HA	2:aK:238:ASN:OD1	2.17	0.44
1:aP:99:LEU:HG	2:aZ:62:GLN:HE22	1.83	0.44
2:aV:9:ILE:HD12	2:aV:12:LEU:HG	1.99	0.44
2:aV:246:MET:HE2	2:aV:259:ILE:CG2	2.48	0.44
2:aW:45:ASN:OD1	2:aW:75:ILE:HD12	2.18	0.44
2:aY:185:GLN:NE2	2:jm:196:THR:OG1	2.50	0.44
1:bc:63:VAL:HG12	1:bc:75:LYS:H	1.82	0.44
1:bh:96:ASP:HB2	2:bl:64:VAL:HG13	1.99	0.44
2:bk:43:ALA:O	2:bk:77:ASN:ND2	2.50	0.44
1:bv:96:ASP:HB2	2:bz:64:VAL:HG13	1.99	0.44
2:bM:63:ARG:HE	2:bP:205:MET:CE	2.30	0.44
2:bO:57:ARG:HD3	2:bO:58:GLU:N	2.32	0.44
2:bQ:94:ASP:H	5:qp:47:ARG:NE	2.15	0.44
2:bQ:185:GLN:O	2:bQ:205:MET:N	2.43	0.44
1:bR:57:VAL:HB	1:bR:59:VAL:HG23	1.99	0.44
2:bZ:193:THR:HG23	2:iI:193:THR:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cb:36:THR:HG22	2:cb:175:THR:HG22	2.00	0.44
2:ce:236:GLN:HB2	2:ce:240:GLU:HB3	2.00	0.44
1:cj:91:GLU:HB2	2:ix:4:ILE:CG2	2.47	0.44
2:cp:36:THR:HG22	2:cp:175:THR:HG22	2.00	0.44
2:cq:57:ARG:HD3	2:cq:58:GLU:N	2.32	0.44
2:cB:219:VAL:O	2:cB:219:VAL:CG1	2.66	0.44
2:cC:280:VAL:O	2:cC:289:ASN:ND2	2.50	0.44
2:cO:46:THR:HG22	2:cO:74:GLN:CG	2.48	0.44
2:cQ:244:ASP:OD1	2:cQ:245:ALA:N	2.50	0.44
1:db:103:ARG:O	2:dh:62:GLN:NE2	2.50	0.44
2:di:166:PRO:HG3	2:di:259:ILE:HG23	1.98	0.44
1:dk:99:LEU:HG	2:du:62:GLN:HE22	1.83	0.44
1:dn:57:VAL:O	1:dn:59:VAL:HG23	2.17	0.44
2:dF:45:ASN:OD1	2:dF:75:ILE:HD12	2.18	0.44
2:dT:94:ASP:OD1	2:dT:95:ASN:N	2.51	0.44
2:dU:196:THR:OG1	2:pK:185:GLN:NE2	2.50	0.44
2:dU:262:ASN:HA	2:dU:295:VAL:HG22	1.99	0.44
2:eg:189:LYS:O	2:eg:190:PRO:C	2.61	0.44
2:eg:193:THR:HG22	2:nA:193:THR:HG23	1.99	0.44
2:ej:234:LEU:HA	2:ej:238:ASN:OD1	2.17	0.44
2:ek:216:ARG:HB3	2:ek:219:VAL:HG12	2.00	0.44
2:el:274:ALA:CB	2:el:297:VAL:HG21	2.46	0.44
2:em:62:GLN:HE22	1:nV:104:CYS:HA	1.82	0.44
1:en:63:VAL:HG12	1:en:75:LYS:H	1.82	0.44
2:ew:80:PHE:HA	2:ey:59:TRP:HB3	1.99	0.44
2:ew:226:LEU:HD22	2:ew:270:LEU:HD22	2.00	0.44
2:eI:193:THR:HG22	2:gp:193:THR:HG23	1.99	0.44
2:eM:107:GLY:CA	2:eM:184:TYR:CZ	2.97	0.44
2:fc:238:ASN:O	2:fc:242:VAL:HG13	2.17	0.44
1:fd:63:VAL:HG12	1:fd:75:LYS:H	1.82	0.44
1:fK:100:LYS:CE	1:kv:100:LYS:CB	2.92	0.44
2:fN:45:ASN:OD1	2:fN:75:ILE:HD12	2.18	0.44
2:fS:236:GLN:HB2	2:fS:240:GLU:HB3	2.00	0.44
2:ge:107:GLY:CA	2:ge:184:TYR:CZ	2.97	0.44
2:gf:274:ALA:CB	2:gf:297:VAL:HG21	2.46	0.44
2:gr:37:VAL:O	2:gr:37:VAL:HG13	2.17	0.44
2:gr:234:LEU:HA	2:gr:238:ASN:OD1	2.17	0.44
2:gt:237:VAL:O	2:gt:241:LYS:HB3	2.18	0.44
1:gB:103:ARG:O	2:gH:62:GLN:NE2	2.50	0.44
2:gF:226:LEU:HD21	2:gF:273:LYS:HB3	1.99	0.44
1:gM:103:ARG:NH1	2:IV:61:GLY:CA	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gQ:46:THR:HG22	2:gQ:74:GLN:CG	2.48	0.44
2:gR:45:ASN:OD1	2:gR:75:ILE:HD12	2.18	0.44
2:gS:179:LEU:HD22	2:gS:209:TYR:HD2	1.82	0.44
2:gW:183:ILE:HD12	2:gW:183:ILE:H	1.82	0.44
2:hf:43:ALA:O	2:hf:77:ASN:ND2	2.50	0.44
2:hh:226:LEU:HD21	2:hh:273:LYS:HB3	1.99	0.44
2:hi:216:ARG:HB3	2:hi:219:VAL:HG12	2.00	0.44
2:hk:144:TYR:HH	2:hk:254:GLY:H	1.65	0.44
1:hl:59:VAL:HG12	1:hl:61:ALA:N	2.28	0.44
1:hq:96:ASP:CB	2:ht:64:VAL:HG13	2.47	0.44
2:hs:258:ASP:OD1	2:hs:260:ARG:NH1	2.50	0.44
2:ht:244:ASP:OD1	2:ht:245:ALA:N	2.50	0.44
2:hu:185:GLN:OE1	2:hu:205:MET:HE3	2.17	0.44
2:hX:185:GLN:O	2:hX:205:MET:N	2.43	0.44
2:hF:30:THR:HG23	2:hF:298:LEU:HD13	1.98	0.44
2:hH:36:THR:HG22	2:hH:175:THR:HG22	2.00	0.44
2:hK:91:ILE:HG13	5:qt:47:ARG:CD	2.47	0.44
2:hS:3:ILE:HG22	2:hS:5:THR:H	1.83	0.44
2:hV:36:THR:HG22	2:hV:175:THR:HG22	2.00	0.44
1:ie:63:VAL:HG13	1:ie:74:ASP:HB3	1.99	0.44
2:il:237:VAL:O	2:il:241:LYS:HB3	2.18	0.44
2:iu:246:MET:HE2	2:iu:259:ILE:CG2	2.48	0.44
2:iK:262:ASN:HA	2:iK:295:VAL:HG22	1.99	0.44
1:iP:67:CYS:HA	1:iP:72:CYS:HA	2.00	0.44
1:iU:86:SER:O	1:iU:90:LEU:N	2.51	0.44
1:iU:96:ASP:HB2	2:iY:64:VAL:HG13	1.99	0.44
2:iX:192:PHE:HZ	2:jc:196:THR:HG21	1.83	0.44
2:iZ:185:GLN:OE1	2:iZ:205:MET:HE3	2.17	0.44
1:jd:63:VAL:HG12	1:jd:75:LYS:H	1.82	0.44
2:jl:45:ASN:OD1	2:jl:75:ILE:HD12	2.18	0.44
2:jz:192:PHE:HZ	2:jE:196:THR:HG21	1.83	0.44
2:jA:291:ASN:C	2:jA:294:LEU:HD22	2.42	0.44
1:jF:100:LYS:HD3	1:pU:100:LYS:HZ1	1.76	0.44
2:jM:98:VAL:HG12	2:jM:99:TYR:N	2.32	0.44
2:jO:183:ILE:CG2	2:jO:207:ASP:HB2	2.47	0.44
2:jQ:57:ARG:HD3	2:jQ:58:GLU:N	2.32	0.44
2:kb:192:PHE:HZ	2:kg:196:THR:HG21	1.83	0.44
2:kp:179:LEU:HD22	2:kp:209:TYR:HD2	1.82	0.44
2:kr:57:ARG:HD3	2:kr:58:GLU:N	2.32	0.44
2:kC:193:THR:HG23	2:kP:193:THR:HG22	1.99	0.44
2:kD:244:ASP:OD1	2:kD:245:ALA:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kH:166:PRO:HG3	2:kH:259:ILE:HG23	1.98	0.44
2:kQ:94:ASP:OD1	2:kQ:95:ASN:N	2.51	0.44
2:kT:57:ARG:HD3	2:kT:58:GLU:N	2.32	0.44
2:lj:183:ILE:HD12	2:lj:183:ILE:H	1.83	0.44
2:lt:63:ARG:HE	2:lw:205:MET:CE	2.30	0.44
2:lx:183:ILE:HD12	2:lx:183:ILE:H	1.83	0.44
1:lz:99:LEU:HG	2:lJ:62:GLN:HE22	1.83	0.44
1:lA:102:GLU:OE1	1:oy:99:LEU:CA	2.28	0.44
2:lG:94:ASP:OD1	2:lG:95:ASN:N	2.51	0.44
2:II:185:GLN:NE2	2:oF:196:THR:OG1	2.50	0.44
1:lM:63:VAL:HG12	1:lM:75:LYS:H	1.82	0.44
2:lU:94:ASP:OD1	2:lU:95:ASN:N	2.51	0.44
2:lZ:166:PRO:HG3	2:lZ:259:ILE:HG23	1.98	0.44
2:lZ:183:ILE:HD12	2:lZ:183:ILE:H	1.82	0.44
1:ma:67:CYS:HA	1:ma:72:CYS:HA	2.00	0.44
2:mh:46:THR:HG22	2:mh:74:GLN:CG	2.48	0.44
2:mi:197:LYS:NZ	1:ms:98:LEU:O	2.47	0.44
2:ml:57:ARG:HD3	2:ml:58:GLU:N	2.32	0.44
2:mv:98:VAL:HG12	2:mv:99:TYR:N	2.32	0.44
2:mw:94:ASP:OD1	2:mw:95:ASN:N	2.51	0.44
2:mx:80:PHE:HA	2:mz:59:TRP:HB3	1.99	0.44
2:mx:183:ILE:CG2	2:mx:207:ASP:HB2	2.47	0.44
2:mx:291:ASN:C	2:mx:294:LEU:HD22	2.42	0.44
2:my:185:GLN:OE1	2:my:205:MET:HE3	2.17	0.44
2:mK:43:ALA:O	2:mK:77:ASN:ND2	2.50	0.44
2:mK:94:ASP:OD1	2:mK:95:ASN:N	2.51	0.44
2:mL:262:ASN:HA	2:mL:295:VAL:HG22	2.00	0.44
1:mQ:67:CYS:HA	1:mQ:72:CYS:HA	2.00	0.44
1:mW:62:THR:HG22	1:mW:63:VAL:N	2.31	0.44
2:nl:9:ILE:HD12	2:nl:12:LEU:HG	1.99	0.44
2:nl:98:VAL:HG12	2:nl:99:TYR:N	2.32	0.44
2:no:79:LEU:HD12	2:no:79:LEU:C	2.42	0.44
2:no:185:GLN:OE1	2:no:205:MET:HE3	2.17	0.44
2:nq:200:ASP:OD1	2:nq:200:ASP:N	2.50	0.44
2:nr:236:GLN:HB2	2:nr:240:GLU:HB3	2.00	0.44
1:ns:58:PHE:CE1	2:oE:3:ILE:HD11	2.53	0.44
1:ns:63:VAL:HG12	1:ns:75:LYS:H	1.82	0.44
1:nt:99:LEU:HG	2:nD:62:GLN:HE22	1.83	0.44
2:nz:30:THR:HG23	2:nz:298:LEU:HD13	1.98	0.44
2:nB:280:VAL:O	2:nB:289:ASN:ND2	2.50	0.44
2:nE:237:VAL:O	2:nE:241:LYS:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nF:183:ILE:H	2:nF:183:ILE:HD12	1.83	0.44
2:nP:96:LEU:HB2	2:nP:98:VAL:HG22	1.99	0.44
2:nR:57:ARG:HD3	2:nR:58:GLU:N	2.32	0.44
2:ob:246:MET:HE2	2:ob:259:ILE:CG2	2.48	0.44
1:ok:105:THR:OG1	2:oU:60:ILE:HG12	2.18	0.44
1:om:102:GLU:HG2	2:pV:62:GLN:OE1	2.02	0.44
2:op:30:THR:HG23	2:op:298:LEU:HD13	1.98	0.44
2:or:80:PHE:HA	2:ot:59:TRP:HB3	1.99	0.44
2:or:226:LEU:HD22	2:or:270:LEU:HD22	2.00	0.44
2:ov:236:GLN:HB2	2:ov:240:GLU:HB3	2.00	0.44
1:ow:67:CYS:HA	1:ow:72:CYS:HA	2.00	0.44
2:oD:258:ASP:OD1	2:oD:260:ARG:NH1	2.50	0.44
2:oE:45:ASN:OD1	2:oE:75:ILE:HD12	2.18	0.44
2:oF:226:LEU:HD22	2:oF:270:LEU:HD22	2.00	0.44
1:oO:57:VAL:O	1:oO:59:VAL:HG23	2.17	0.44
2:oR:30:THR:HG23	2:oR:298:LEU:HD13	1.98	0.44
2:oR:189:LYS:O	2:oR:190:PRO:C	2.61	0.44
2:oT:262:ASN:HA	2:oT:295:VAL:HG22	2.00	0.44
1:pd:96:ASP:CB	2:ph:64:VAL:HG13	2.47	0.44
2:pf:98:VAL:HG12	2:pf:99:TYR:N	2.33	0.44
2:pf:189:LYS:O	2:pf:190:PRO:C	2.61	0.44
2:ph:80:PHE:HA	2:pj:59:TRP:HB3	1.99	0.44
2:ph:96:LEU:HB2	2:ph:98:VAL:HG22	1.99	0.44
1:pm:59:VAL:HG12	1:pm:61:ALA:N	2.28	0.44
2:pv:183:ILE:CG2	2:pv:207:ASP:HB2	2.47	0.44
2:pv:262:ASN:HA	2:pv:295:VAL:HG22	2.00	0.44
2:py:237:VAL:O	2:py:241:LYS:HB3	2.18	0.44
1:pF:96:ASP:HB2	2:pJ:64:VAL:HG13	1.98	0.44
2:pM:160:PHE:HB2	2:pM:270:LEU:HD11	2.00	0.44
2:pM:237:VAL:O	2:pM:241:LYS:HB3	2.18	0.44
2:pV:30:THR:HG23	2:pV:298:LEU:HD13	1.98	0.44
2:pW:43:ALA:O	2:pW:77:ASN:ND2	2.50	0.44
2:pX:65:ILE:HD12	2:qa:203:VAL:HG13	1.99	0.44
3:qf:64:GLY:HA2	4:qk:219:ILE:CG2	2.47	0.44
3:qg:67:ARG:NH1	3:qh:126:ARG:O	2.51	0.44
5:qx:96:ARG:CD	5:qz:114:LEU:CD2	2.81	0.44
5:qF:317:PHE:HZ	5:qH:319:LEU:CD1	2.18	0.44
5:qL:380:MET:SD	5:qL:384:ILE:CD1	3.05	0.44
2:ah:45:ASN:OD1	2:ah:75:ILE:HD12	2.18	0.44
2:ai:61:GLY:CA	1:nX:103:ARG:NH1	2.70	0.44
2:ai:65:ILE:HD12	2:al:203:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:al:237:VAL:O	2:al:241:LYS:HB3	2.18	0.44
1:ao:99:LEU:HD11	1:gm:102:GLU:CG	2.42	0.44
1:as:86:SER:O	1:as:90:LEU:N	2.50	0.44
1:as:96:ASP:CB	2:av:64:VAL:HG13	2.47	0.44
2:au:18:LYS:HD2	2:au:98:VAL:HG21	2.00	0.44
2:au:46:THR:HG22	2:au:74:GLN:CG	2.48	0.44
2:au:226:LEU:HD23	2:au:273:LYS:HE3	1.98	0.44
2:av:61:GLY:CA	1:bH:103:ARG:NH1	2.70	0.44
2:ax:57:ARG:HD3	2:ax:58:GLU:N	2.32	0.44
2:ay:160:PHE:HB2	2:ay:270:LEU:HD11	2.00	0.44
2:az:238:ASN:O	2:az:241:LYS:HG2	2.18	0.44
1:aF:100:LYS:CE	1:mR:100:LYS:CB	2.92	0.44
2:aI:43:ALA:O	2:aI:77:ASN:ND2	2.50	0.44
2:aI:94:ASP:OD1	2:aI:95:ASN:N	2.51	0.44
2:aK:4:ILE:CG2	1:iT:91:GLU:HB2	2.47	0.44
1:aO:57:VAL:HB	1:aO:59:VAL:HG23	1.99	0.44
2:aX:96:LEU:HB2	2:aX:98:VAL:HG22	1.99	0.44
1:bh:59:VAL:O	1:bh:59:VAL:HG13	2.18	0.44
2:bj:30:THR:HG23	2:bj:298:LEU:HD13	1.98	0.44
2:bj:46:THR:HG22	2:bj:74:GLN:CG	2.48	0.44
2:bj:98:VAL:HG12	2:bj:99:TYR:N	2.33	0.44
2:bk:192:PHE:HZ	2:bp:196:THR:HG21	1.83	0.44
2:bl:226:LEU:HD22	2:bl:270:LEU:HD22	2.00	0.44
2:bx:9:ILE:HD12	2:bx:12:LEU:HG	1.99	0.44
2:bz:280:VAL:O	2:bz:289:ASN:ND2	2.50	0.44
2:bA:60:ILE:HG12	1:eR:105:THR:OG1	2.18	0.44
2:bC:237:VAL:O	2:bC:241:LYS:HB3	2.18	0.44
1:bE:59:VAL:HG12	1:bE:61:ALA:N	2.29	0.44
2:bM:96:LEU:HB2	2:bM:98:VAL:HG22	1.99	0.44
2:bY:46:THR:HG22	2:bY:74:GLN:CG	2.48	0.44
2:bY:246:MET:HE2	2:bY:259:ILE:CG2	2.48	0.44
2:ca:65:ILE:HD12	2:cd:203:VAL:HG13	1.99	0.44
2:ce:62:GLN:HE22	1:eQ:104:CYS:HA	1.82	0.44
2:cn:177:ARG:HH11	2:cn:177:ARG:HG3	1.83	0.44
2:co:96:LEU:HB2	2:co:98:VAL:HG22	1.99	0.44
2:co:183:ILE:CG2	2:co:207:ASP:HB2	2.48	0.44
2:co:280:VAL:O	2:co:289:ASN:ND2	2.50	0.44
1:ct:67:CYS:HA	1:ct:72:CYS:HA	2.00	0.44
1:cy:59:VAL:O	1:cy:59:VAL:HG13	2.18	0.44
1:cy:96:ASP:CB	2:cC:64:VAL:HG13	2.47	0.44
2:cA:98:VAL:HG12	2:cA:99:TYR:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cA:248:ASN:OD1	2:cG:268:THR:OG1	2.36	0.44
1:cM:96:ASP:CB	2:cQ:64:VAL:HG13	2.47	0.44
2:cO:246:MET:HE2	2:cO:259:ILE:CG2	2.48	0.44
2:cO:248:ASN:OD1	2:cU:268:THR:OG1	2.36	0.44
2:cR:37:VAL:HG13	2:cR:37:VAL:O	2.17	0.44
2:cR:226:LEU:HD21	2:cR:273:LYS:HB3	1.99	0.44
2:de:96:LEU:HB2	2:de:98:VAL:HG22	1.99	0.44
2:de:291:ASN:C	2:de:294:LEU:HD22	2.42	0.44
2:df:37:VAL:O	2:df:37:VAL:HG13	2.17	0.44
2:dg:57:ARG:HD3	2:dg:58:GLU:N	2.32	0.44
2:di:246:MET:HA	2:di:249:GLN:HG2	2.00	0.44
1:do:100:LYS:CE	1:ki:100:LYS:CB	2.92	0.44
2:ds:262:ASN:HA	2:ds:295:VAL:HG22	2.00	0.44
1:dy:99:LEU:HG	2:dI:62:GLN:HE22	1.83	0.44
1:dA:99:LEU:CB	1:gw:102:GLU:OE1	2.62	0.44
2:dE:246:MET:HE2	2:dE:259:ILE:CG2	2.48	0.44
2:dF:94:ASP:OD1	2:dF:95:ASN:N	2.51	0.44
2:dG:179:LEU:HD22	2:dG:209:TYR:HD2	1.82	0.44
2:dH:36:THR:HG22	2:dH:175:THR:HG22	2.00	0.44
2:dS:189:LYS:O	2:dS:190:PRO:C	2.61	0.44
2:dS:226:LEU:HD23	2:dS:273:LYS:HE3	1.98	0.44
2:dU:96:LEU:HB2	2:dU:98:VAL:HG22	1.99	0.44
2:dX:160:PHE:HB2	2:dX:270:LEU:HD11	2.00	0.44
2:eh:197:LYS:NZ	1:er:98:LEU:O	2.47	0.44
2:ei:262:ASN:HA	2:ei:295:VAL:HG22	1.99	0.44
2:eu:189:LYS:O	2:eu:190:PRO:C	2.61	0.44
2:ew:244:ASP:OD1	2:ew:245:ALA:N	2.50	0.44
1:eC:102:GLU:OE1	1:ic:99:LEU:CB	2.62	0.44
2:eI:189:LYS:O	2:eI:190:PRO:C	2.61	0.44
2:eK:179:LEU:HD22	2:eK:209:TYR:HD2	1.82	0.44
2:eL:185:GLN:OE1	2:eL:205:MET:HE3	2.17	0.44
1:eP:57:VAL:HB	1:eP:59:VAL:HG23	1.99	0.44
1:eP:63:VAL:HG12	1:eP:75:LYS:H	1.82	0.44
1:eP:67:CYS:HA	1:eP:72:CYS:HA	2.00	0.44
1:eQ:99:LEU:HG	2:fa:62:GLN:HE22	1.83	0.44
1:eU:59:VAL:HG13	1:eU:59:VAL:O	2.18	0.44
2:eY:63:ARG:HE	2:fb:205:MET:CE	2.30	0.44
2:eZ:185:GLN:OE1	2:eZ:205:MET:HE3	2.17	0.44
1:fd:57:VAL:HB	1:fd:59:VAL:HG23	1.99	0.44
2:fn:185:GLN:OE1	2:fn:205:MET:HE3	2.17	0.44
1:fr:63:VAL:HG12	1:fr:75:LYS:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fv:57:VAL:O	1:fv:59:VAL:HG23	2.17	0.44
1:fw:96:ASP:CB	2:fa:64:VAL:HG13	2.47	0.44
2:fy:98:VAL:HG12	2:fy:99:TYR:N	2.32	0.44
2:fy:226:LEU:HD23	2:fy:273:LYS:HE3	1.98	0.44
1:fF:57:VAL:HB	1:fF:59:VAL:HG23	1.99	0.44
1:fJ:103:ARG:HD2	2:lT:61:GLY:CA	2.40	0.44
1:fU:104:CYS:HA	2:mn:62:GLN:HE22	1.82	0.44
1:fV:102:GLU:CD	1:nu:99:LEU:HB3	2.37	0.44
1:fY:86:SER:O	1:fY:90:LEU:N	2.51	0.44
2:ga:248:ASN:OD1	2:gg:268:THR:OG1	2.36	0.44
2:gb:219:VAL:O	2:gb:219:VAL:CG1	2.66	0.44
1:gh:57:VAL:HB	1:gh:59:VAL:HG23	1.99	0.44
1:gi:99:LEU:HG	2:gs:62:GLN:HE22	1.83	0.44
2:gp:282:ARG:NH2	2:hT:282:ARG:HH11	1.93	0.44
2:gs:4:ILE:H	2:gU:69:ALA:HB2	1.81	0.44
2:gu:238:ASN:O	2:gu:241:LYS:HG2	2.18	0.44
2:gE:80:PHE:HA	2:gG:59:TRP:HB3	1.99	0.44
1:hb:98:LEU:O	2:lG:197:LYS:NZ	2.47	0.44
1:hd:62:THR:HG22	1:hd:63:VAL:N	2.31	0.44
2:hF:192:PHE:HZ	2:hk:196:THR:HG21	1.83	0.44
2:hg:179:LEU:HD22	2:hg:209:TYR:HD2	1.82	0.44
2:ht:183:ILE:CG2	2:ht:207:ASP:HB2	2.47	0.44
2:hw:89:THR:N	2:hw:200:ASP:OD2	2.36	0.44
1:hy:57:VAL:HB	1:hy:59:VAL:HG23	1.99	0.44
2:hF:98:VAL:HG12	2:hF:99:TYR:N	2.32	0.44
2:hT:43:ALA:O	2:hT:77:ASN:ND2	2.50	0.44
2:ig:46:THR:HG22	2:ig:74:GLN:CG	2.48	0.44
1:is:59:VAL:O	1:is:59:VAL:HG13	2.18	0.44
2:iy:69:ALA:HB2	2:pZ:4:ILE:H	1.81	0.44
2:iz:274:ALA:CB	2:iz:297:VAL:HG21	2.46	0.44
2:iA:236:GLN:HB2	2:iA:240:GLU:HB3	2.00	0.44
2:iO:236:GLN:HB2	2:iO:240:GLU:HB3	2.00	0.44
1:iT:57:VAL:O	1:iT:59:VAL:HG23	2.17	0.44
2:iX:75:ILE:HG21	2:iX:177:ARG:NH1	2.32	0.44
2:iZ:79:LEU:HD12	2:iZ:79:LEU:C	2.42	0.44
2:jk:46:THR:HG22	2:jk:74:GLN:CG	2.48	0.44
2:jk:226:LEU:HD23	2:jk:273:LYS:HE3	1.98	0.44
1:jr:67:CYS:HA	1:jr:72:CYS:HA	2.00	0.44
1:jw:63:VAL:HG13	1:jw:74:ASP:HB3	1.99	0.44
2:jE:246:MET:HA	2:jE:249:GLN:HG2	2.00	0.44
1:jK:96:ASP:HB2	2:jO:64:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jN:94:ASP:OD1	2:jN:95:ASN:N	2.51	0.44
2:jO:196:THR:OG1	2:oU:185:GLN:NE2	2.50	0.44
1:jX:103:ARG:HD2	2:lr:61:GLY:CA	2.40	0.44
2:ka:189:LYS:O	2:ka:190:PRO:C	2.61	0.44
2:kf:237:VAL:O	2:kf:241:LYS:HB3	2.18	0.44
2:ks:160:PHE:HB2	2:ks:270:LEU:HD11	2.00	0.44
1:ku:67:CYS:HA	1:ku:72:CYS:HA	2.00	0.44
1:kv:104:CYS:HA	2:lZ:62:GLN:HE22	1.82	0.44
2:kD:63:ARG:HE	2:kG:205:MET:CE	2.30	0.44
1:kI:100:LYS:CE	1:kO:100:LYS:HZ1	2.30	0.44
1:kJ:99:LEU:HG	2:kT:62:GLN:HE22	1.83	0.44
2:kP:248:ASN:OD1	2:kV:268:THR:OG1	2.36	0.44
2:kQ:219:VAL:O	2:kQ:219:VAL:CG1	2.66	0.44
2:kR:96:LEU:HB2	2:kR:98:VAL:HG22	1.99	0.44
2:kS:185:GLN:OE1	2:kS:205:MET:HE3	2.17	0.44
2:ld:98:VAL:HG12	2:ld:99:TYR:N	2.32	0.44
2:lf:183:ILE:CG2	2:lf:207:ASP:HB2	2.47	0.44
2:lr:30:THR:HG23	2:lr:298:LEU:HD13	1.98	0.44
2:lv:216:ARG:HB3	2:lv:219:VAL:HG12	2.00	0.44
1:lN:99:LEU:HG	2:lX:62:GLN:HE22	1.83	0.44
2:lU:219:VAL:O	2:lU:219:VAL:CG1	2.66	0.44
2:IV:183:ILE:CG2	2:IV:207:ASP:HB2	2.47	0.44
2:mi:3:ILE:HD11	1:mC:58:PHE:CE1	2.53	0.44
2:mj:183:ILE:CG2	2:mj:207:ASP:HB2	2.47	0.44
2:mj:226:LEU:HD22	2:mj:270:LEU:HD22	2.00	0.44
2:mk:234:LEU:HA	2:mk:238:ASN:OD1	2.17	0.44
2:mK:45:ASN:OD1	2:mK:75:ILE:HD12	2.18	0.44
2:mL:179:LEU:HD22	2:mL:209:TYR:HD2	1.82	0.44
2:mM:185:GLN:OE1	2:mM:205:MET:HE3	2.17	0.44
2:mP:62:GLN:HE22	1:nf:104:CYS:HA	1.82	0.44
2:mP:236:GLN:HB2	2:mP:240:GLU:HB3	2.00	0.44
1:mV:96:ASP:CB	2:mZ:64:VAL:HG13	2.47	0.44
2:nc:237:VAL:O	2:nc:241:LYS:HB3	2.18	0.44
2:nm:45:ASN:OD1	2:nm:75:ILE:HD12	2.18	0.44
2:nn:63:ARG:HE	2:nq:205:MET:CE	2.30	0.44
2:nq:226:LEU:HA	2:nq:238:ASN:ND2	2.33	0.44
2:nB:96:LEU:HB2	2:nB:98:VAL:HG22	1.99	0.44
2:nC:226:LEU:HD21	2:nC:273:LYS:HB3	1.99	0.44
1:nG:67:CYS:HA	1:nG:72:CYS:HA	2.00	0.44
2:nO:192:PHE:HZ	2:nT:196:THR:HG21	1.83	0.44
2:nT:236:GLN:HB2	2:nT:240:GLU:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:nX:63:VAL:HG23	1:nX:99:LEU:CD1	2.42	0.44
2:oe:37:VAL:HG13	2:oe:37:VAL:O	2.17	0.44
2:oe:234:LEU:HA	2:oe:238:ASN:OD1	2.17	0.44
2:oq:43:ALA:O	2:oq:77:ASN:ND2	2.50	0.44
2:os:37:VAL:O	2:os:37:VAL:HG13	2.17	0.44
2:oD:98:VAL:HG12	2:oD:99:TYR:N	2.33	0.44
2:oD:246:MET:HE2	2:oD:259:ILE:CG2	2.48	0.44
2:oF:96:LEU:HB2	2:oF:98:VAL:HG22	1.99	0.44
2:oJ:166:PRO:HG3	2:oJ:259:ILE:HG23	1.98	0.44
2:oR:9:ILE:HD12	2:oR:12:LEU:HG	1.99	0.44
2:oR:248:ASN:OD1	2:oX:268:THR:OG1	2.36	0.44
2:oT:183:ILE:CG2	2:oT:207:ASP:HB2	2.47	0.44
2:pg:94:ASP:OD1	2:pg:95:ASN:N	2.51	0.44
2:pk:226:LEU:HA	2:pk:238:ASN:ND2	2.33	0.44
1:pr:59:VAL:O	1:pr:59:VAL:HG13	2.18	0.44
1:pr:63:VAL:HG13	1:pr:74:ASP:HB3	1.99	0.44
2:pt:248:ASN:OD1	2:pz:268:THR:OG1	2.36	0.44
2:pw:185:GLN:OE1	2:pw:205:MET:HE3	2.17	0.44
2:px:216:ARG:HB3	2:px:219:VAL:HG12	2.00	0.44
1:pA:57:VAL:HB	1:pA:59:VAL:HG23	1.99	0.44
1:pE:57:VAL:O	1:pE:59:VAL:HG23	2.17	0.44
2:pH:46:THR:HG22	2:pH:74:GLN:CG	2.48	0.44
2:pI:45:ASN:OD1	2:pI:75:ILE:HD12	2.18	0.44
2:pJ:65:ILE:HD12	2:pM:203:VAL:HG13	1.99	0.44
2:pV:246:MET:HE2	2:pV:259:ILE:CG2	2.48	0.44
2:qb:246:MET:HA	2:qb:249:GLN:HG2	2.00	0.44
1:qc:63:VAL:HG12	1:qc:75:LYS:H	1.83	0.44
1:qc:67:CYS:HA	1:qc:72:CYS:HA	2.00	0.44
3:qg:64:GLY:CA	4:qj:219:ILE:CG2	2.94	0.44
3:qh:134:SER:HG	3:qh:138:TYR:HH	1.62	0.44
4:qm:116:PHE:CD1	4:qn:202:ILE:HD11	2.48	0.44
6:qs:83:LEU:HD11	6:qs:89:VAL:HG13	2.00	0.44
6:qw:112:LEU:CD2	6:qy:58:LEU:HD12	1.00	0.44
5:qz:248:LYS:HD3	6:qC:123:ASN:HA	1.53	0.44
6:qA:112:LEU:HD21	6:qC:58:LEU:HD12	0.51	0.44
5:qB:385:PRO:HA	5:qB:388:VAL:HG22	1.98	0.44
5:qD:399:VAL:O	5:qD:403:LEU:HD23	2.18	0.44
5:qF:248:LYS:NZ	6:qI:121:VAL:CG1	2.80	0.44
2:ag:98:VAL:HG12	2:ag:99:TYR:N	2.32	0.44
2:ah:94:ASP:OD1	2:ah:95:ASN:N	2.51	0.44
2:aj:60:ILE:HG12	1:ng:105:THR:OG1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aj:186:GLU:O	2:mL:191:SER:OG	2.08	0.44
2:au:248:ASN:OD1	2:az:268:THR:OG1	2.36	0.44
2:av:96:LEU:HB2	2:av:98:VAL:HG22	1.99	0.44
2:az:183:ILE:CB	5:qH:178:PRO:HB3	2.34	0.44
1:aB:104:CYS:HA	2:kV:62:GLN:HE22	1.82	0.44
2:aH:248:ASN:OD1	2:aN:268:THR:OG1	2.36	0.44
2:aI:197:LYS:NZ	1:iT:98:LEU:O	2.47	0.44
2:aJ:96:LEU:HB2	2:aJ:98:VAL:HG22	1.99	0.44
2:aJ:196:THR:OG1	2:kS:185:GLN:NE2	2.50	0.44
2:aJ:262:ASN:HA	2:aJ:295:VAL:HG22	1.99	0.44
2:aM:160:PHE:HB2	2:aM:270:LEU:HD11	2.00	0.44
2:aW:177:ARG:HH11	2:aW:177:ARG:HG3	1.83	0.44
1:bc:67:CYS:HA	1:bc:72:CYS:HA	2.00	0.44
2:bk:205:MET:CE	2:dr:63:ARG:NE	2.74	0.44
2:bl:53:PHE:O	2:bl:255:ARG:NH2	2.43	0.44
1:br:99:LEU:HG	2:bB:62:GLN:HE22	1.83	0.44
2:bx:248:ASN:OD1	2:bD:268:THR:OG1	2.36	0.44
2:by:44:SER:OG	2:by:45:ASN:N	2.51	0.44
2:by:192:PHE:HZ	2:bD:196:THR:HG21	1.83	0.44
2:bz:65:ILE:HD12	2:bC:203:VAL:HG13	1.99	0.44
2:bB:216:ARG:HB3	2:bB:219:VAL:HG12	2.00	0.44
2:bB:226:LEU:HD23	2:bB:227:ALA:N	2.32	0.44
2:bC:274:ALA:CB	2:bC:297:VAL:HG21	2.46	0.44
1:bJ:63:VAL:HG13	1:bJ:74:ASP:HB3	1.99	0.44
2:bL:246:MET:HE2	2:bL:259:ILE:CG2	2.48	0.44
2:bN:79:LEU:HD12	2:bN:79:LEU:C	2.42	0.44
1:bR:63:VAL:HG12	1:bR:75:LYS:H	1.82	0.44
1:bS:99:LEU:HG	2:cc:62:GLN:HE22	1.83	0.44
2:bY:248:ASN:OD1	2:ce:268:THR:OG1	2.36	0.44
2:bZ:94:ASP:OD1	2:bZ:95:ASN:N	2.51	0.44
2:ca:291:ASN:C	2:ca:294:LEU:HD22	2.42	0.44
1:cf:57:VAL:HB	1:cf:59:VAL:HG23	1.99	0.44
2:cm:98:VAL:HG12	2:cm:99:TYR:N	2.32	0.44
2:co:262:ASN:HA	2:co:295:VAL:HG22	2.00	0.44
1:ct:58:PHE:CE1	2:iv:3:ILE:HD11	2.53	0.44
1:ct:63:VAL:HG12	1:ct:75:LYS:H	1.82	0.44
2:cB:205:MET:CE	2:cP:63:ARG:NE	2.74	0.44
2:cF:160:PHE:HB2	2:cF:270:LEU:HD11	2.00	0.44
2:cQ:183:ILE:CG2	2:cQ:207:ASP:HB2	2.47	0.44
1:cW:104:CYS:HA	2:gI:62:GLN:HE22	1.82	0.44
2:dc:3:ILE:HG22	2:dc:5:THR:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dc:98:VAL:HG12	2:dc:99:TYR:N	2.33	0.44
2:dd:63:ARG:NE	2:eJ:205:MET:CE	2.74	0.44
2:df:185:GLN:OE1	2:df:205:MET:HE3	2.17	0.44
2:dg:226:LEU:HD23	2:dg:227:ALA:N	2.32	0.44
2:dh:197:LYS:HZ1	2:fo:62:GLN:HE21	1.62	0.44
1:dl:102:GLU:HB3	1:hN:99:LEU:HD23	1.96	0.44
1:do:59:VAL:O	1:do:59:VAL:HG13	2.18	0.44
2:dq:246:MET:HE2	2:dq:259:ILE:CG2	2.48	0.44
2:dr:192:PHE:HZ	2:dw:196:THR:HG21	1.83	0.44
1:dL:63:VAL:HG12	1:dL:75:LYS:H	1.82	0.44
1:dO:62:THR:HG21	1:dO:97:PRO:HB3	2.00	0.44
2:dS:46:THR:HG22	2:dS:74:GLN:CG	2.48	0.44
2:dT:3:ILE:HD11	1:nU:58:PHE:CE1	2.53	0.44
2:dU:24:LEU:HD11	2:dW:257:LEU:HD12	2.00	0.44
2:dW:226:LEU:HD23	2:dW:227:ALA:N	2.32	0.44
1:dZ:67:CYS:HA	1:dZ:72:CYS:HA	2.00	0.44
1:eb:105:THR:OG1	2:oe:60:ILE:HG12	2.18	0.44
2:eg:246:MET:HE2	2:eg:259:ILE:CG2	2.48	0.44
2:ei:179:LEU:HD22	2:ei:209:TYR:HD2	1.82	0.44
2:el:160:PHE:HB2	2:el:270:LEU:HD11	2.00	0.44
1:es:67:CYS:HA	1:es:72:CYS:HA	1.98	0.44
2:eu:248:ASN:OD1	2:eA:268:THR:OG1	2.36	0.44
2:ev:75:ILE:HG21	2:ev:177:ARG:NH1	2.32	0.44
2:ew:196:THR:OG1	2:nQ:185:GLN:NE2	2.50	0.44
2:ey:57:ARG:HD3	2:ey:58:GLU:N	2.32	0.44
2:ez:160:PHE:HB2	2:ez:270:LEU:HD11	2.00	0.44
2:eI:246:MET:HE2	2:eI:259:ILE:CG2	2.48	0.44
2:eL:36:THR:HG22	2:eL:175:THR:HG22	2.00	0.44
2:eW:30:THR:HG23	2:eW:298:LEU:HD13	1.98	0.44
2:eX:177:ARG:HH11	2:eX:177:ARG:HG3	1.83	0.44
2:fk:246:MET:HE2	2:fk:259:ILE:CG2	2.48	0.44
2:fl:94:ASP:OD1	2:fl:95:ASN:N	2.51	0.44
2:fz:94:ASP:OD1	2:fz:95:ASN:N	2.51	0.44
2:fA:80:PHE:HA	2:fC:59:TRP:HB3	1.99	0.44
2:fE:246:MET:HA	2:fE:249:GLN:HG2	2.00	0.44
1:fF:67:CYS:HA	1:fF:72:CYS:HA	2.00	0.44
2:fM:18:LYS:HD2	2:fM:98:VAL:HG21	2.00	0.44
2:fM:248:ASN:OD1	2:fS:268:THR:OG1	2.36	0.44
2:fO:280:VAL:O	2:fO:289:ASN:ND2	2.50	0.44
2:ga:61:GLY:CA	1:id:103:ARG:HD2	2.40	0.44
2:gb:45:ASN:OD1	2:gb:75:ILE:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ge:57:ARG:HD3	2:ge:58:GLU:N	2.32	0.44
2:gf:200:ASP:N	2:gf:200:ASP:OD1	2.50	0.44
2:gf:237:VAL:O	2:gf:241:LYS:HB3	2.18	0.44
2:gp:44:SER:OG	2:gp:45:ASN:N	2.51	0.44
2:gp:177:ARG:HH11	2:gp:177:ARG:HG3	1.83	0.44
2:gr:36:THR:HG22	2:gr:175:THR:HG22	2.00	0.44
1:gw:100:LYS:CB	1:pd:100:LYS:CE	2.92	0.44
2:gF:234:LEU:HA	2:gF:238:ASN:OD1	2.17	0.44
2:gH:226:LEU:HA	2:gH:238:ASN:ND2	2.33	0.44
1:gK:99:LEU:HG	2:gU:62:GLN:HE22	1.83	0.44
1:gM:62:THR:HG21	1:gM:97:PRO:HB3	2.00	0.44
2:gQ:3:ILE:HG22	2:gQ:5:THR:H	1.83	0.44
2:gQ:61:GLY:CA	1:lQ:103:ARG:HD2	2.40	0.44
2:gQ:189:LYS:O	2:gQ:190:PRO:C	2.61	0.44
2:gS:291:ASN:C	2:gS:294:LEU:HD22	2.42	0.44
2:gU:216:ARG:HB3	2:gU:219:VAL:HG12	2.00	0.44
2:gW:236:GLN:HB2	2:gW:240:GLU:HB3	2.00	0.44
1:hl:57:VAL:HB	1:hl:59:VAL:HG23	1.99	0.44
1:hA:99:LEU:CA	1:kw:102:GLU:CD	2.87	0.44
2:hF:46:THR:HG22	2:hF:74:GLN:CG	2.48	0.44
1:hO:62:THR:HG21	1:hO:97:PRO:HB3	2.00	0.44
1:hQ:59:VAL:O	1:hQ:59:VAL:HG13	2.18	0.44
1:ie:57:VAL:HG22	1:ie:104:CYS:H	1.83	0.44
2:ig:248:ASN:OD1	2:im:268:THR:OG1	2.36	0.44
2:il:89:THR:N	2:il:200:ASP:OD2	2.36	0.44
2:im:183:ILE:HD12	2:im:183:ILE:H	1.83	0.44
2:im:246:MET:HA	2:im:249:GLN:HG2	2.00	0.44
2:iu:46:THR:HG22	2:iu:74:GLN:CG	2.48	0.44
2:ix:37:VAL:HG13	2:ix:37:VAL:O	2.17	0.44
2:iI:46:THR:HG22	2:iI:74:GLN:CG	2.48	0.44
2:iJ:45:ASN:OD1	2:iJ:75:ILE:HD12	2.18	0.44
2:iW:18:LYS:HD2	2:iW:98:VAL:HG21	2.00	0.44
2:iY:244:ASP:OD1	2:iY:245:ALA:N	2.50	0.44
2:ja:216:ARG:HB3	2:ja:219:VAL:HG12	2.00	0.44
2:ja:226:LEU:HD23	2:ja:227:ALA:N	2.32	0.44
1:je:99:LEU:HG	2:jo:62:GLN:HE22	1.83	0.44
1:js:104:CYS:HA	2:nd:62:GLN:HE22	1.82	0.44
2:jy:248:ASN:OD1	2:jE:268:THR:OG1	2.36	0.44
2:jz:177:ARG:HH11	2:jz:177:ARG:HG3	1.83	0.44
2:jz:219:VAL:O	2:jz:219:VAL:CG1	2.66	0.44
2:jA:117:LEU:HD21	2:jA:211:TYR:CA	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jC:57:ARG:HD3	2:jC:58:GLU:N	2.32	0.44
1:jF:57:VAL:HB	1:jF:59:VAL:HG23	1.99	0.44
2:jN:177:ARG:HH11	2:jN:177:ARG:HG3	1.83	0.44
2:jR:237:VAL:O	2:jR:241:LYS:HB3	2.18	0.44
2:jS:238:ASN:O	2:jS:241:LYS:HG2	2.18	0.44
2:ka:246:MET:HE2	2:ka:259:ILE:CG2	2.48	0.44
2:kb:177:ARG:HH11	2:kb:177:ARG:HG3	1.83	0.44
2:kc:80:PHE:HA	2:ke:59:TRP:HB3	1.99	0.44
2:kc:96:LEU:HB2	2:kc:98:VAL:HG22	1.99	0.44
2:kg:62:GLN:HE22	1:mR:104:CYS:HA	1.82	0.44
2:ko:98:VAL:HG12	2:ko:99:TYR:N	2.33	0.44
2:kq:37:VAL:O	2:kq:37:VAL:HG13	2.17	0.44
2:kt:236:GLN:HB2	2:kt:240:GLU:HB3	2.00	0.44
2:kB:189:LYS:O	2:kB:190:PRO:C	2.61	0.44
2:kB:248:ASN:OD1	2:kH:268:THR:OG1	2.36	0.44
2:kC:219:VAL:O	2:kC:219:VAL:CG1	2.66	0.44
2:kD:24:LEU:HD11	2:kF:257:LEU:HD12	2.00	0.44
2:kD:183:ILE:CG2	2:kD:207:ASP:HB2	2.47	0.44
1:kI:63:VAL:HG12	1:kI:75:LYS:H	1.82	0.44
2:kP:246:MET:HE2	2:kP:259:ILE:CG2	2.48	0.44
2:kS:226:LEU:HD21	2:kS:273:LYS:HB3	1.99	0.44
2:kV:246:MET:HA	2:kV:249:GLN:HG2	2.00	0.44
1:kW:63:VAL:HG12	1:kW:75:LYS:H	1.82	0.44
2:le:75:ILE:HG21	2:le:177:ARG:NH1	2.32	0.44
2:le:94:ASP:OD1	2:le:95:ASN:N	2.51	0.44
2:lg:226:LEU:HD21	2:lg:273:LYS:HB3	1.99	0.44
2:lj:62:GLN:HE22	1:lz:104:CYS:HA	1.82	0.44
1:lk:67:CYS:HA	1:lk:72:CYS:HA	2.00	0.44
2:lr:18:LYS:HD2	2:lr:98:VAL:HG21	2.00	0.44
2:lt:226:LEU:HD22	2:lt:270:LEU:HD22	2.00	0.44
1:lC:60:ARG:HB2	1:lC:102:GLU:O	2.18	0.44
2:lG:44:SER:OG	2:lG:45:ASN:N	2.51	0.44
2:lI:226:LEU:HD21	2:lI:273:LYS:HB3	1.99	0.44
2:lL:246:MET:HA	2:lL:249:GLN:HG2	2.00	0.44
1:lS:103:ARG:O	2:lY:62:GLN:NE2	2.50	0.44
2:mh:18:LYS:HD2	2:mh:98:VAL:HG21	2.00	0.44
2:mh:248:ASN:OD1	2:mn:268:THR:OG1	2.36	0.44
2:mj:65:ILE:HD12	2:mm:203:VAL:HG13	1.99	0.44
2:mk:36:THR:HG22	2:mk:175:THR:HG22	2.00	0.44
2:mn:246:MET:HA	2:mn:249:GLN:HG2	2.00	0.44
2:mx:262:ASN:HA	2:mx:295:VAL:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mz:57:ARG:HD3	2:mz:58:GLU:N	2.32	0.44
2:mJ:46:THR:HG22	2:mJ:74:GLN:CG	2.48	0.44
2:mL:96:LEU:HB2	2:mL:98:VAL:HG22	1.99	0.44
2:mO:160:PHE:HB2	2:mO:270:LEU:HD11	2.00	0.44
1:mV:86:SER:O	1:mV:90:LEU:N	2.51	0.44
2:mY:177:ARG:HH11	2:mY:177:ARG:HG3	1.83	0.44
2:mZ:96:LEU:HB2	2:mZ:98:VAL:HG22	1.99	0.44
2:nd:236:GLN:HB2	2:nd:240:GLU:HB3	2.00	0.44
2:nl:3:ILE:HG22	2:nl:5:THR:H	1.83	0.44
2:nl:248:ASN:OD1	2:nr:268:THR:OG1	2.36	0.44
2:nA:44:SER:OG	2:nA:45:ASN:N	2.51	0.44
2:nB:179:LEU:HD22	2:nB:209:TYR:HD2	1.82	0.44
2:nF:246:MET:HA	2:nF:249:GLN:HG2	2.00	0.44
1:nI:99:LEU:CA	1:pa:102:GLU:CD	2.87	0.44
2:nO:177:ARG:HH11	2:nO:177:ARG:HG3	1.83	0.44
2:nP:183:ILE:CG2	2:nP:207:ASP:HB2	2.47	0.44
2:nT:246:MET:HA	2:nT:249:GLN:HG2	2.00	0.44
2:od:117:LEU:HD21	2:od:211:TYR:CA	2.46	0.44
2:oh:238:ASN:O	2:oh:241:LYS:HG2	2.18	0.44
1:ol:62:THR:HG21	1:ol:97:PRO:HB3	2.00	0.44
2:op:3:ILE:HG22	2:op:5:THR:H	1.83	0.44
2:or:244:ASP:OD1	2:or:245:ALA:N	2.50	0.44
1:ow:57:VAL:HB	1:ow:59:VAL:HG23	1.99	0.44
2:oD:248:ASN:OD1	2:oJ:268:THR:OG1	2.36	0.44
2:oF:183:ILE:CG2	2:oF:207:ASP:HB2	2.48	0.44
2:oR:226:LEU:HD23	2:oR:273:LYS:HE3	1.98	0.44
2:oT:226:LEU:HD22	2:oT:270:LEU:HD22	2.00	0.44
2:oU:185:GLN:OE1	2:oU:205:MET:HE3	2.17	0.44
2:oV:216:ARG:HB3	2:oV:219:VAL:HG12	1.99	0.44
2:oW:160:PHE:HB2	2:oW:270:LEU:HD11	2.00	0.44
2:oX:238:ASN:O	2:oX:241:LYS:HG2	2.18	0.44
2:ph:226:LEU:HD22	2:ph:270:LEU:HD22	2.00	0.44
2:pi:37:VAL:O	2:pi:37:VAL:HG13	2.17	0.44
2:pl:299:ASP:O	2:pl:300:THR:OG1	2.36	0.44
1:pr:96:ASP:HB2	2:pv:64:VAL:HG13	1.99	0.44
1:ps:103:ARG:O	2:py:62:GLN:NE2	2.50	0.44
2:pt:9:ILE:HD12	2:pt:12:LEU:HG	1.99	0.44
2:pu:44:SER:OG	2:pu:45:ASN:N	2.51	0.44
2:pv:244:ASP:OD1	2:pv:245:ALA:N	2.50	0.44
2:py:226:LEU:HA	2:py:238:ASN:ND2	2.33	0.44
2:pK:36:THR:HG22	2:pK:175:THR:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pV:46:THR:HG22	2:pV:74:GLN:CG	2.48	0.44
2:pV:248:ASN:OD1	2:qb:268:THR:OG1	2.36	0.44
2:pY:185:GLN:OE1	2:pY:205:MET:HE3	2.17	0.44
2:qa:274:ALA:CB	2:qa:297:VAL:HG21	2.46	0.44
3:qf:66:GLN:O	3:qf:67:ARG:HG2	2.18	0.44
3:qh:66:GLN:HA	4:qj:8:TYR:C	2.43	0.44
5:qv:207:ARG:NE	5:qx:69:GLU:OE2	2.43	0.44
6:qG:112:LEU:HD23	6:qI:58:LEU:CD1	1.02	0.44
2:ag:18:LYS:HD2	2:ag:98:VAL:HG21	2.00	0.43
2:ag:46:THR:HG22	2:ag:74:GLN:CG	2.48	0.43
2:ai:183:ILE:CG2	2:ai:207:ASP:HB2	2.47	0.43
1:as:57:VAL:HG22	1:as:104:CYS:H	1.83	0.43
2:aw:60:ILE:HG12	1:hN:105:THR:OG1	2.18	0.43
2:ay:200:ASP:OD1	2:ay:200:ASP:N	2.50	0.43
2:ay:237:VAL:O	2:ay:241:LYS:HB3	2.18	0.43
1:aF:96:ASP:HB2	2:aJ:64:VAL:HG13	1.98	0.43
2:aH:246:MET:HE2	2:aH:259:ILE:CG2	2.48	0.43
2:aJ:244:ASP:OD1	2:aJ:245:ALA:N	2.50	0.43
2:aK:60:ILE:HG12	1:kK:105:THR:OG1	2.18	0.43
2:aK:185:GLN:OE1	2:aK:205:MET:HE3	2.17	0.43
1:aQ:105:THR:OG1	2:jn:60:ILE:HG12	2.18	0.43
2:aW:192:PHE:HZ	2:bb:196:THR:HG21	1.83	0.43
2:aX:183:ILE:CG2	2:aX:207:ASP:HB2	2.48	0.43
2:bb:238:ASN:O	2:bb:241:LYS:HG2	2.18	0.43
1:bc:57:VAL:HB	1:bc:59:VAL:HG23	1.99	0.43
2:bj:248:ASN:OD1	2:bp:268:THR:OG1	2.36	0.43
2:bn:216:ARG:HB3	2:bn:219:VAL:HG12	1.99	0.43
2:bo:160:PHE:HB2	2:bo:270:LEU:HD11	2.00	0.43
2:by:45:ASN:OD1	2:by:75:ILE:HD12	2.18	0.43
2:bz:80:PHE:HA	2:bB:59:TRP:HB3	1.99	0.43
2:bz:96:LEU:HB2	2:bz:98:VAL:HG22	1.99	0.43
1:bE:58:PHE:CE1	2:dd:3:ILE:HD11	2.53	0.43
1:bG:102:GLU:CD	1:gj:99:LEU:HB3	2.37	0.43
1:bJ:101:VAL:HG23	1:bJ:101:VAL:O	2.18	0.43
1:bK:103:ARG:O	2:bP:62:GLN:NE2	2.50	0.43
2:bL:18:LYS:HD2	2:bL:98:VAL:HG21	2.00	0.43
2:bL:248:ASN:OD1	2:bQ:268:THR:OG1	2.36	0.43
2:bM:65:ILE:HD12	2:bP:203:VAL:HG13	1.99	0.43
2:bM:179:LEU:HD22	2:bM:209:TYR:HD2	1.82	0.43
2:bN:60:ILE:HG12	1:gL:105:THR:OG1	2.18	0.43
2:bN:185:GLN:OE1	2:bN:205:MET:HE3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bQ:236:GLN:HB2	2:bQ:240:GLU:HB3	2.00	0.43
1:bV:57:VAL:O	1:bV:59:VAL:HG23	2.17	0.43
1:bW:59:VAL:O	1:bW:59:VAL:HG13	2.18	0.43
2:ca:80:PHE:HA	2:cc:59:TRP:HB3	1.99	0.43
1:cf:58:PHE:CE1	2:dr:3:ILE:HD11	2.53	0.43
1:cg:99:LEU:HD11	1:lp:102:GLU:CG	2.42	0.43
1:ck:100:LYS:CE	1:ll:100:LYS:CB	2.92	0.43
2:cm:189:LYS:O	2:cm:190:PRO:C	2.61	0.43
2:cm:248:ASN:OD1	2:cs:268:THR:OG1	2.36	0.43
2:cn:197:LYS:NZ	1:pq:98:LEU:O	2.47	0.43
2:cr:226:LEU:HA	2:cr:238:ASN:ND2	2.33	0.43
2:cB:43:ALA:O	2:cB:77:ASN:ND2	2.50	0.43
2:cC:226:LEU:HD22	2:cC:270:LEU:HD22	2.00	0.43
1:cI:99:LEU:HG	2:cS:62:GLN:HE22	1.83	0.43
2:cQ:179:LEU:HD22	2:cQ:209:TYR:HD2	1.82	0.43
2:cT:200:ASP:N	2:cT:200:ASP:OD1	2.50	0.43
2:cU:236:GLN:HB2	2:cU:240:GLU:HB3	2.00	0.43
2:cU:246:MET:HA	2:cU:249:GLN:HG2	2.00	0.43
1:cX:105:THR:OG1	2:dH:60:ILE:HG12	2.18	0.43
1:da:59:VAL:HG13	1:da:59:VAL:O	2.18	0.43
2:dc:248:ASN:OD1	2:di:268:THR:OG1	2.36	0.43
2:de:244:ASP:OD1	2:de:245:ALA:N	2.50	0.43
1:dj:58:PHE:CE1	2:eJ:3:ILE:HD11	2.53	0.43
2:dq:46:THR:HG22	2:dq:74:GLN:CG	2.48	0.43
2:du:4:ILE:H	2:hW:69:ALA:HB2	1.81	0.43
2:dv:263:LEU:HD23	2:dv:296:GLN:HE21	1.83	0.43
2:dw:238:ASN:O	2:dw:241:LYS:HG2	2.18	0.43
2:dF:177:ARG:HH11	2:dF:177:ARG:HG3	1.83	0.43
2:dK:238:ASN:O	2:dK:241:LYS:HG2	2.18	0.43
2:dS:3:ILE:HG22	2:dS:5:THR:H	1.83	0.43
2:dS:248:ASN:OD1	2:dY:268:THR:OG1	2.36	0.43
2:dT:282:ARG:HH11	2:nO:282:ARG:NH2	1.93	0.43
2:dU:65:ILE:HD12	2:dX:203:VAL:HG13	1.99	0.43
2:dU:280:VAL:O	2:dU:289:ASN:ND2	2.50	0.43
2:dY:238:ASN:O	2:dY:241:LYS:HG2	2.18	0.43
1:ef:103:ARG:O	2:el:62:GLN:NE2	2.50	0.43
2:eh:219:VAL:O	2:eh:219:VAL:CG1	2.66	0.43
2:ei:65:ILE:HD12	2:el:203:VAL:HG13	1.99	0.43
2:el:226:LEU:HA	2:el:238:ASN:ND2	2.33	0.43
1:er:57:VAL:O	1:er:59:VAL:HG23	2.17	0.43
2:ez:226:LEU:HA	2:ez:238:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ez:263:LEU:HD23	2:ez:296:GLN:HE21	1.83	0.43
1:eG:59:VAL:O	1:eG:59:VAL:HG13	2.18	0.43
2:eL:37:VAL:O	2:eL:37:VAL:HG13	2.17	0.43
1:eP:58:PHE:CE1	2:gp:3:ILE:HD11	2.53	0.43
2:eX:45:ASN:OD1	2:eX:75:ILE:HD12	2.18	0.43
2:eY:226:LEU:HD22	2:eY:270:LEU:HD22	2.00	0.43
1:fh:60:ARG:HB2	1:fh:102:GLU:O	2.18	0.43
1:fj:100:LYS:HZ3	1:gJ:100:LYS:CG	1.99	0.43
2:fm:63:ARG:HE	2:fp:205:MET:CE	2.30	0.43
2:fm:80:PHE:HA	2:fo:59:TRP:HB3	1.99	0.43
2:fo:57:ARG:HD3	2:fo:58:GLU:N	2.32	0.43
2:fq:246:MET:HA	2:fq:249:GLN:HG2	2.00	0.43
1:fx:99:LEU:HD23	1:ns:102:GLU:CG	2.19	0.43
2:fN:177:ARG:HH11	2:fN:177:ARG:HG3	1.83	0.43
2:fO:65:ILE:HD12	2:FR:203:VAL:HG13	1.99	0.43
2:fO:183:ILE:CG2	2:fO:207:ASP:HB2	2.47	0.43
2:fO:196:THR:OG1	2:hh:185:GLN:NE2	2.50	0.43
2:fO:244:ASP:OD1	2:fO:245:ALA:N	2.50	0.43
2:fQ:57:ARG:HD3	2:fQ:58:GLU:N	2.32	0.43
2:fS:238:ASN:O	2:fS:241:LYS:HG2	2.18	0.43
1:fV:105:THR:OG1	2:nC:60:ILE:HG12	2.18	0.43
2:gb:43:ALA:O	2:gb:77:ASN:ND2	2.50	0.43
2:gb:192:PHE:HZ	2:gg:196:THR:HG21	1.83	0.43
2:gb:197:LYS:NZ	1:id:98:LEU:O	2.47	0.43
2:gb:205:MET:CE	2:ih:63:ARG:NE	2.74	0.43
2:gq:19:HIS:NE2	2:gs:38:ILE:HD13	2.33	0.43
2:gr:185:GLN:OE1	2:gr:205:MET:HE3	2.17	0.43
2:gt:160:PHE:HB2	2:gt:270:LEU:HD11	2.00	0.43
2:gt:263:LEU:HD23	2:gt:296:GLN:HE21	1.84	0.43
1:gv:63:VAL:HG12	1:gv:75:LYS:H	1.82	0.43
1:gy:63:VAL:HG23	1:gy:99:LEU:CD1	2.42	0.43
2:gC:248:ASN:OD1	2:gI:268:THR:OG1	2.36	0.43
2:gE:183:ILE:CG2	2:gE:207:ASP:HB2	2.47	0.43
1:gX:58:PHE:CE1	2:ih:3:ILE:HD11	2.53	0.43
2:he:9:ILE:HD12	2:he:12:LEU:HG	1.99	0.43
2:he:248:ASN:OD1	2:hk:268:THR:OG1	2.36	0.43
2:hF:3:ILE:HD11	1:kI:58:PHE:CE1	2.53	0.43
1:ho:62:THR:HG21	1:ho:97:PRO:HB3	2.00	0.43
1:hq:59:VAL:O	1:hq:59:VAL:HG13	2.18	0.43
2:hw:237:VAL:O	2:hw:241:LYS:HB3	2.18	0.43
1:hy:63:VAL:HG12	1:hy:75:LYS:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hF:246:MET:HE2	2:hF:259:ILE:CG2	2.48	0.43
2:hJ:200:ASP:N	2:hJ:200:ASP:OD1	2.50	0.43
2:hS:18:LYS:HD2	2:hS:98:VAL:HG21	2.00	0.43
2:hU:80:PHE:HA	2:hW:59:TRP:HB3	1.99	0.43
2:hU:179:LEU:HD22	2:hU:209:TYR:HD2	1.82	0.43
1:hZ:67:CYS:HA	1:hZ:72:CYS:HA	2.00	0.43
1:ia:99:LEU:HG	2:ik:62:GLN:HE22	1.83	0.43
2:ih:192:PHE:HZ	2:im:196:THR:HG21	1.83	0.43
2:ij:37:VAL:O	2:ij:37:VAL:HG13	2.17	0.43
2:ij:234:LEU:HA	2:ij:238:ASN:OD1	2.17	0.43
1:in:67:CYS:HA	1:in:72:CYS:HA	2.00	0.43
1:is:101:VAL:HG23	1:is:101:VAL:O	2.18	0.43
2:iu:3:ILE:HG22	2:iu:5:THR:H	1.83	0.43
2:iv:43:ALA:O	2:iv:77:ASN:ND2	2.50	0.43
2:iL:248:ASN:OD1	2:iO:268:THR:OG1	2.36	0.43
2:iK:24:LEU:HD11	2:iM:257:LEU:HD12	2.00	0.43
2:iK:65:ILE:HD12	2:iN:203:VAL:HG13	1.99	0.43
2:iK:80:PHE:HA	2:iM:59:TRP:HB3	1.99	0.43
2:iL:185:GLN:NE2	2:pv:196:THR:OG1	2.50	0.43
2:iW:248:ASN:OD1	2:jc:268:THR:OG1	2.36	0.43
2:iX:43:ALA:O	2:iX:77:ASN:ND2	2.51	0.43
2:iX:197:LYS:NZ	1:jh:98:LEU:O	2.47	0.43
2:iY:196:THR:OG1	2:kq:185:GLN:NE2	2.50	0.43
2:iZ:60:ILE:HG12	1:kj:105:THR:OG1	2.18	0.43
2:jb:160:PHE:HB2	2:jb:270:LEU:HD11	2.00	0.43
2:jb:200:ASP:N	2:jb:200:ASP:OD1	2.50	0.43
1:jg:63:VAL:HG23	1:jg:99:LEU:CD1	2.42	0.43
2:jl:94:ASP:OD1	2:jl:95:ASN:N	2.51	0.43
1:jt:105:THR:OG1	2:kd:60:ILE:HG12	2.18	0.43
1:jw:59:VAL:O	1:jw:59:VAL:HG13	2.18	0.43
2:jz:3:ILE:HD11	1:qc:58:PHE:CE1	2.53	0.43
2:jA:24:LEU:HD11	2:jC:257:LEU:HD12	2.00	0.43
2:jD:200:ASP:N	2:jD:200:ASP:OD1	2.50	0.43
2:jD:274:ALA:CB	2:jD:297:VAL:HG21	2.46	0.43
2:jM:246:MET:HE2	2:jM:259:ILE:CG2	2.48	0.43
2:jO:179:LEU:HD22	2:jO:209:TYR:HD2	1.82	0.43
2:jR:160:PHE:HB2	2:jR:270:LEU:HD11	2.00	0.43
2:kb:94:ASP:OD1	2:kb:95:ASN:N	2.51	0.43
2:kd:234:LEU:HA	2:kd:238:ASN:OD1	2.17	0.43
1:kk:62:THR:HG21	1:kk:97:PRO:HB3	2.00	0.43
2:kp:262:ASN:HA	2:kp:295:VAL:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kt:185:GLN:O	2:kt:205:MET:N	2.43	0.43
2:kG:200:ASP:N	2:kG:200:ASP:OD1	2.50	0.43
1:kN:86:SER:O	1:kN:90:LEU:N	2.51	0.43
1:kZ:99:LEU:CB	1:lz:102:GLU:OE1	2.62	0.43
2:lf:244:ASP:OD1	2:lf:245:ALA:N	2.50	0.43
1:lk:58:PHE:CE1	2:mK:3:ILE:HD11	2.53	0.43
1:lm:102:GLU:CD	1:pQ:99:LEU:HB3	2.37	0.43
2:ls:45:ASN:OD1	2:ls:75:ILE:HD12	2.18	0.43
2:ls:57:ARG:NH2	2:ls:58:GLU:O	2.48	0.43
2:ls:192:PHE:HZ	2:lx:196:THR:HG21	1.83	0.43
2:lw:226:LEU:HA	2:lw:238:ASN:ND2	2.33	0.43
1:lC:102:GLU:HG2	2:mX:62:GLN:OE1	2.02	0.43
1:lC:103:ARG:HD2	2:mX:61:GLY:CA	2.40	0.43
2:lG:177:ARG:HH11	2:lG:177:ARG:HG3	1.83	0.43
2:lI:36:THR:HG22	2:lI:175:THR:HG22	2.00	0.43
2:lK:226:LEU:HA	2:lK:238:ASN:ND2	2.33	0.43
2:lT:3:ILE:HG22	2:lT:5:THR:H	1.83	0.43
2:lU:57:ARG:NH2	2:lU:58:GLU:O	2.48	0.43
2:mh:189:LYS:O	2:mh:190:PRO:C	2.61	0.43
2:mj:96:LEU:HB2	2:mj:98:VAL:HG22	1.99	0.43
2:mj:197:LYS:CE	1:nv:99:LEU:HA	2.48	0.43
2:mw:44:SER:OG	2:mw:45:ASN:N	2.51	0.43
2:mz:216:ARG:HB3	2:mz:219:VAL:HG12	2.00	0.43
2:mJ:3:ILE:HG22	2:mJ:5:THR:H	1.83	0.43
2:mK:44:SER:OG	2:mK:45:ASN:N	2.51	0.43
2:mN:226:LEU:HD23	2:mN:227:ALA:N	2.32	0.43
2:mZ:19:HIS:NE2	2:nb:38:ILE:HD13	2.33	0.43
2:mZ:24:LEU:HD11	2:nb:257:LEU:HD12	2.00	0.43
2:mZ:226:LEU:HD22	2:mZ:270:LEU:HD22	2.00	0.43
2:nb:57:ARG:HD3	2:nb:58:GLU:N	2.32	0.43
2:nd:246:MET:HA	2:nd:249:GLN:HG2	2.00	0.43
1:ns:57:VAL:HB	1:ns:59:VAL:HG23	1.99	0.43
2:nA:94:ASP:OD1	2:nA:95:ASN:N	2.51	0.43
2:nD:216:ARG:HB3	2:nD:219:VAL:HG12	2.00	0.43
1:nH:82:ASP:OD1	1:nH:83:GLY:N	2.51	0.43
2:nN:189:LYS:O	2:nN:190:PRO:C	2.61	0.43
2:nO:3:ILE:HD11	1:oi:58:PHE:CE1	2.53	0.43
2:nO:193:THR:HG23	2:ob:193:THR:HG22	1.99	0.43
2:nQ:226:LEU:HD21	2:nQ:273:LYS:HB3	1.99	0.43
2:nT:183:ILE:HD12	2:nT:183:ILE:H	1.82	0.43
2:nT:238:ASN:O	2:nT:241:LYS:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:nU:57:VAL:HB	1:nU:59:VAL:HG23	1.99	0.43
2:of:216:ARG:HB3	2:of:219:VAL:HG12	2.00	0.43
1:oj:99:LEU:HG	2:ot:62:GLN:HE22	1.83	0.43
2:og:45:ASN:OD1	2:og:75:ILE:HD12	2.18	0.43
1:oz:62:THR:HG21	1:oz:97:PRO:HB3	2.00	0.43
1:oB:63:VAL:HG13	1:oB:74:ASP:HB3	1.99	0.43
2:oG:37:VAL:O	2:oG:37:VAL:HG13	2.17	0.43
1:pd:63:VAL:HG13	1:pd:74:ASP:HB3	1.99	0.43
2:pf:246:MET:HE2	2:pf:259:ILE:CG2	2.48	0.43
2:pf:248:ASN:OD1	2:pl:268:THR:OG1	2.36	0.43
2:pg:192:PHE:HZ	2:pl:196:THR:HG21	1.83	0.43
2:pv:291:ASN:C	2:pv:294:LEU:HD22	2.42	0.43
2:pH:3:ILE:HG22	2:pH:5:THR:H	1.83	0.43
2:pH:248:ASN:OD1	2:pN:268:THR:OG1	2.36	0.43
2:pI:94:ASP:OD1	2:pI:95:ASN:N	2.51	0.43
2:pI:177:ARG:HH11	2:pI:177:ARG:HG3	1.83	0.43
2:pJ:183:ILE:CG2	2:pJ:207:ASP:HB2	2.47	0.43
2:pK:185:GLN:OE1	2:pK:205:MET:HE3	2.17	0.43
2:pN:238:ASN:O	2:pN:241:LYS:HG2	2.18	0.43
3:qd:84:TYR:CZ	6:qs:20:GLU:CG	2.91	0.43
3:qg:66:GLN:O	3:qg:67:ARG:HG2	2.18	0.43
5:qv:284:PRO:CB	5:qx:227:LEU:HD21	2.47	0.43
6:qy:112:LEU:HD23	6:qA:58:LEU:CB	2.43	0.43
5:qB:24:ARG:O	5:qB:25:LEU:HD22	2.18	0.43
6:qC:112:LEU:HD23	6:qE:58:LEU:CD1	1.02	0.43
5:qD:248:LYS:HD3	6:qG:123:ASN:HA	1.53	0.43
5:qF:24:ARG:O	5:qF:25:LEU:HD22	2.18	0.43
5:qF:399:VAL:O	5:qF:403:LEU:HD23	2.18	0.43
6:qG:112:LEU:CD1	6:qI:58:LEU:HD12	2.48	0.43
6:qG:133:ASP:OD1	6:qG:134:TRP:N	2.45	0.43
5:qH:399:VAL:O	5:qH:403:LEU:HD23	2.18	0.43
6:qK:112:LEU:CD1	6:qM:58:LEU:HD12	2.48	0.43
2:ag:248:ASN:OD1	2:am:268:THR:OG1	2.36	0.43
2:ah:44:SER:OG	2:ah:45:ASN:N	2.51	0.43
2:ai:19:HIS:NE2	2:ak:38:ILE:HD13	2.34	0.43
2:am:276:GLU:OE2	2:am:280:VAL:HG21	2.19	0.43
2:au:9:ILE:HD12	2:au:12:LEU:HG	1.99	0.43
2:av:196:THR:OG1	2:hV:185:GLN:NE2	2.50	0.43
1:aA:102:GLU:CG	1:kn:99:LEU:HD23	2.19	0.43
1:aG:103:ARG:O	2:aM:62:GLN:NE2	2.50	0.43
2:aH:30:THR:HG23	2:aH:298:LEU:HD13	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aJ:80:PHE:HA	2:aL:59:TRP:HB3	1.99	0.43
1:aR:99:LEU:HA	2:jm:197:LYS:CE	2.48	0.43
1:aT:101:VAL:HG23	1:aT:101:VAL:O	2.18	0.43
2:aV:248:ASN:OD1	2:bb:268:THR:OG1	2.36	0.43
2:ba:226:LEU:HA	2:ba:238:ASN:ND2	2.33	0.43
1:be:105:THR:OG1	2:kq:60:ILE:HG12	2.18	0.43
1:bs:105:THR:OG1	2:cb:60:ILE:HG12	2.18	0.43
2:bx:246:MET:HE2	2:bx:259:ILE:CG2	2.48	0.43
2:bA:185:GLN:OE1	2:bA:205:MET:HE3	2.17	0.43
1:bH:99:LEU:HD22	1:gi:60:ARG:HG2	2.01	0.43
2:bM:226:LEU:HD22	2:bM:270:LEU:HD22	2.00	0.43
2:bQ:183:ILE:HD12	2:bQ:183:ILE:H	1.82	0.43
2:bY:3:ILE:HG22	2:bY:5:THR:H	1.83	0.43
2:cd:160:PHE:HB2	2:cd:270:LEU:HD11	2.00	0.43
2:cd:263:LEU:HD23	2:cd:296:GLN:HE21	1.83	0.43
1:ck:57:VAL:HG22	1:ck:104:CYS:H	1.84	0.43
2:cn:44:SER:OG	2:cn:45:ASN:N	2.51	0.43
2:cn:282:ARG:HH11	2:pu:282:ARG:NH2	1.93	0.43
2:cB:63:ARG:NE	2:pg:205:MET:CE	2.74	0.43
2:cB:94:ASP:OD1	2:cB:95:ASN:N	2.51	0.43
2:cC:19:HIS:NE2	2:cE:38:ILE:HD13	2.34	0.43
2:cC:24:LEU:HD11	2:cE:257:LEU:HD12	2.00	0.43
2:cC:80:PHE:HA	2:cE:59:TRP:HB3	1.99	0.43
2:cE:57:ARG:HD3	2:cE:58:GLU:N	2.32	0.43
2:cE:216:ARG:HB3	2:cE:219:VAL:HG12	2.00	0.43
2:cF:263:LEU:HD23	2:cF:296:GLN:HE21	1.83	0.43
1:cM:100:LYS:CE	1:pB:100:LYS:CB	2.92	0.43
2:cQ:24:LEU:HD11	2:cS:257:LEU:HD12	2.00	0.43
2:cQ:65:ILE:HD12	2:cT:203:VAL:HG13	1.99	0.43
2:cT:238:ASN:O	2:cT:242:VAL:CG2	2.62	0.43
2:cT:263:LEU:HD23	2:cT:296:GLN:HE21	1.83	0.43
2:cU:238:ASN:O	2:cU:241:LYS:HG2	2.18	0.43
2:dc:189:LYS:O	2:dc:190:PRO:C	2.61	0.43
2:dd:192:PHE:HZ	2:di:196:THR:HG21	1.83	0.43
1:dm:62:THR:HG21	1:dm:97:PRO:HB3	2.00	0.43
2:dq:3:ILE:HG22	2:dq:5:THR:H	1.83	0.43
2:dr:94:ASP:OD1	2:dr:95:ASN:N	2.51	0.43
2:ds:19:HIS:NE2	2:du:38:ILE:HD13	2.34	0.43
2:dv:160:PHE:HB2	2:dv:270:LEU:HD11	2.00	0.43
2:dv:226:LEU:HA	2:dv:238:ASN:ND2	2.33	0.43
1:dB:60:ARG:HB2	1:dB:102:GLU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dE:189:LYS:O	2:dE:190:PRO:C	2.61	0.43
2:dG:183:ILE:CG2	2:dG:207:ASP:HB2	2.47	0.43
2:dJ:237:VAL:O	2:dJ:241:LYS:HB3	2.18	0.43
1:dQ:57:VAL:HG22	1:dQ:104:CYS:H	1.83	0.43
2:dV:60:ILE:HG12	1:pC:105:THR:OG1	2.18	0.43
2:dY:236:GLN:HB2	2:dY:240:GLU:HB3	2.00	0.43
1:ea:99:LEU:HG	2:ek:62:GLN:HE22	1.83	0.43
2:eg:62:GLN:OE1	1:er:102:GLU:HG2	2.02	0.43
2:eh:44:SER:OG	2:eh:45:ASN:N	2.51	0.43
2:ei:63:ARG:HE	2:el:205:MET:CE	2.30	0.43
2:el:237:VAL:O	2:el:241:LYS:HB3	2.18	0.43
1:en:100:LYS:HD3	1:et:100:LYS:HZ1	1.79	0.43
1:ep:105:THR:OG1	2:pi:60:ILE:HG12	2.18	0.43
2:ev:94:ASP:OD1	2:ev:95:ASN:N	2.51	0.43
2:ev:193:THR:HG23	2:gC:193:THR:HG22	1.99	0.43
2:ew:19:HIS:NE2	2:ey:38:ILE:HD13	2.34	0.43
2:ex:60:ILE:HG12	1:nI:105:THR:OG1	2.18	0.43
1:eC:104:CYS:HA	2:im:62:GLN:HE22	1.82	0.43
2:eK:244:ASP:OD1	2:eK:245:ALA:N	2.50	0.43
1:eT:60:ARG:HB2	1:eT:102:GLU:O	2.18	0.43
2:eW:248:ASN:OD1	2:fc:268:THR:OG1	2.36	0.43
2:fb:226:LEU:HA	2:fb:238:ASN:ND2	2.33	0.43
2:fc:185:GLN:O	2:fc:205:MET:N	2.43	0.43
2:fc:238:ASN:O	2:fc:241:LYS:HG2	2.18	0.43
1:ff:102:GLU:CD	1:ib:99:LEU:CA	2.87	0.43
1:fi:57:VAL:HG22	1:fi:104:CYS:H	1.84	0.43
2:fn:36:THR:HG22	2:fn:175:THR:HG22	2.00	0.43
1:ft:99:LEU:HD23	1:nW:102:GLU:HB3	1.96	0.43
1:fw:59:VAL:HG13	1:fw:59:VAL:O	2.18	0.43
2:fz:43:ALA:O	2:fz:77:ASN:ND2	2.50	0.43
2:fA:183:ILE:CG2	2:fA:207:ASP:HB2	2.47	0.43
2:fB:226:LEU:HD21	2:fB:273:LYS:HB3	1.99	0.43
1:fG:99:LEU:HG	2:fQ:62:GLN:HE22	1.83	0.43
1:fL:100:LYS:HZ1	1:ma:100:LYS:CE	2.32	0.43
2:fO:24:LEU:HD11	2:fQ:257:LEU:HD12	2.00	0.43
1:fY:101:VAL:HG23	1:fY:101:VAL:O	2.18	0.43
2:gb:94:ASP:OD1	2:gb:95:ASN:N	2.51	0.43
2:gc:24:LEU:HD11	2:ge:257:LEU:HD12	2.00	0.43
1:gl:60:ARG:HB2	1:gl:102:GLU:O	2.18	0.43
2:gu:236:GLN:HB2	2:gu:240:GLU:HB3	2.00	0.43
1:gv:67:CYS:HA	1:gv:72:CYS:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gC:246:MET:HE2	2:gC:259:ILE:CG2	2.48	0.43
2:gE:226:LEU:HD22	2:gE:270:LEU:HD22	2.00	0.43
2:gR:94:ASP:OD1	2:gR:95:ASN:N	2.51	0.43
2:gV:226:LEU:HA	2:gV:238:ASN:ND2	2.33	0.43
1:gX:57:VAL:HB	1:gX:59:VAL:HG23	1.99	0.43
1:gX:67:CYS:HA	1:gX:72:CYS:HA	2.00	0.43
1:hc:101:VAL:HG23	1:hc:101:VAL:O	2.19	0.43
2:hg:262:ASN:HA	2:hg:295:VAL:HG22	2.00	0.43
1:hn:102:GLU:HB3	1:kK:99:LEU:HD23	1.96	0.43
1:hn:105:THR:OG1	2:kS:60:ILE:HG12	2.18	0.43
1:hr:70:GLY:N	6:qG:117:LYS:O	2.51	0.43
2:hx:238:ASN:O	2:hx:241:LYS:HG2	2.18	0.43
2:hx:246:MET:HA	2:hx:249:GLN:HG2	2.00	0.43
1:hA:105:THR:OG1	2:lW:60:ILE:HG12	2.18	0.43
1:hD:101:VAL:HG23	1:hD:101:VAL:O	2.19	0.43
2:hG:96:LEU:HB2	2:hG:98:VAL:HG22	1.99	0.43
2:hK:238:ASN:O	2:hK:241:LYS:HG2	2.18	0.43
2:hS:46:THR:HG22	2:hS:74:GLN:CG	2.48	0.43
2:hX:160:PHE:HB2	2:hX:270:LEU:HD11	2.00	0.43
2:hY:236:GLN:HB2	2:hY:240:GLU:HB3	2.00	0.43
2:hY:238:ASN:O	2:hY:241:LYS:HG2	2.18	0.43
1:ic:62:THR:HG21	1:ic:97:PRO:HB3	2.00	0.43
2:ih:219:VAL:O	2:ih:219:VAL:CG1	2.66	0.43
2:il:274:ALA:CB	2:il:297:VAL:HG21	2.46	0.43
2:im:236:GLN:HB2	2:im:240:GLU:HB3	2.00	0.43
1:ip:99:LEU:HD23	1:pQ:102:GLU:HB3	1.95	0.43
2:iw:19:HIS:NE2	2:iy:38:ILE:HD13	2.34	0.43
1:iB:67:CYS:HA	1:iB:72:CYS:HA	2.00	0.43
1:iG:57:VAL:HG22	1:iG:104:CYS:H	1.83	0.43
1:iG:59:VAL:O	1:iG:59:VAL:HG13	2.18	0.43
2:iI:98:VAL:HG12	2:iI:99:TYR:N	2.32	0.43
2:iK:96:LEU:HB2	2:iK:98:VAL:HG22	1.99	0.43
2:iK:226:LEU:HD22	2:iK:270:LEU:HD22	2.00	0.43
2:iL:37:VAL:HG13	2:iL:37:VAL:O	2.17	0.43
1:iP:57:VAL:HB	1:iP:59:VAL:HG23	1.99	0.43
2:iX:94:ASP:OD1	2:iX:95:ASN:N	2.51	0.43
2:iY:19:HIS:NE2	2:ja:38:ILE:HD13	2.34	0.43
1:ji:101:VAL:HG23	1:ji:101:VAL:O	2.18	0.43
2:jn:185:GLN:OE1	2:jn:205:MET:HE3	2.17	0.43
2:jn:234:LEU:HA	2:jn:238:ASN:OD1	2.17	0.43
2:jQ:185:GLN:O	2:jQ:205:MET:N	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2: jy:3: ILE: HG22	2: jy:5: THR: H	1.83	0.43
2: jz:173: LEU: HA	2: jz:215: SER: HB3	2.01	0.43
2: jB:60: ILE: HG12	1: mS:105: THR: OG1	2.18	0.43
2: jE:106: MET: CE	2: jE:206: ALA: HB3	2.49	0.43
1: jG:104: CYS: HA	2: oX:62: GLN: HE22	1.82	0.43
1: jJ:60: ARG: HB2	1: jJ:102: GLU: O	2.18	0.43
1: jK:101: VAL: O	1: jK:101: VAL: HG23	2.18	0.43
2: jS:106: MET: CE	2: jS:206: ALA: HB3	2.49	0.43
2: kc:183: ILE: CG2	2: kc:207: ASP: HB2	2.47	0.43
2: kd:36: THR: HG22	2: kd:175: THR: HG22	2.00	0.43
2: ko:3: ILE: HG22	2: ko:5: THR: H	1.83	0.43
2: kt:238: ASN: O	2: kt:241: LYS: HG2	2.18	0.43
1: kw:99: LEU: CA	1: lO:102: GLU: CD	2.87	0.43
2: kB:3: ILE: HG22	2: kB:5: THR: H	1.83	0.43
2: kD:65: ILE: HD12	2: kG:203: VAL: HG13	1.99	0.43
2: kD:196: THR: OG1	2: lW:185: GLN: NE2	2.50	0.43
2: kE:60: ILE: HG12	1: lO:105: THR: OG1	2.18	0.43
2: kF:216: ARG: HB3	2: kF:219: VAL: HG12	1.99	0.43
2: kG:237: VAL: O	2: kG:241: LYS: HB3	2.18	0.43
1: kN:96: ASP: HB2	2: kR:64: VAL: HG13	1.99	0.43
2: kQ:45: ASN: OD1	2: kQ:75: ILE: HD12	2.18	0.43
2: kR:262: ASN: HA	2: kR:295: VAL: HG22	2.00	0.43
1: kZ:99: LEU: CA	2: lH:197: LYS: HZ1	2.14	0.43
1: lb:86: SER: O	1: lb:90: LEU: N	2.51	0.43
2: lg:234: LEU: HA	2: lg:238: ASN: OD1	2.17	0.43
2: lj:144: TYR: HH	2: lj:254: GLY: H	1.65	0.43
1: lo:60: ARG: HB2	1: lo:102: GLU: O	2.18	0.43
2: lr:246: MET: HE2	2: lr:259: ILE: CG2	2.48	0.43
2: lu:37: VAL: O	2: lu:37: VAL: HG13	2.17	0.43
1: lB:63: VAL: HG23	1: lB:99: LEU: CD1	2.42	0.43
2: lF:246: MET: HE2	2: lF:259: ILE: CG2	2.48	0.43
1: lM:58: PHE: CE1	2: mY:3: ILE: HD11	2.53	0.43
2: lZ:236: GLN: HB2	2: lZ:240: GLU: HB3	2.00	0.43
1: mf:59: VAL: HG13	1: mf:59: VAL: O	2.18	0.43
2: mm:226: LEU: HA	2: mm:238: ASN: ND2	2.33	0.43
2: mn:236: GLN: HB2	2: mn:240: GLU: HB3	2.00	0.43
1: mt:57: VAL: HG22	1: mt:104: CYS: H	1.83	0.43
2: mv:189: LYS: O	2: mv:190: PRO: C	2.61	0.43
2: mv:246: MET: HE2	2: mv:259: ILE: CG2	2.48	0.43
2: mv:248: ASN: OD1	2: mB:268: THR: OG1	2.36	0.43
2: mx:19: HIS: NE2	2: mz:38: ILE: HD13	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mQ:58:PHE:CE1	2:oq:3:ILE:HD11	2.53	0.43
1:mW:103:ARG:O	2:nc:62:GLN:NE2	2.50	0.43
2:mX:248:ASN:OD1	2:nd:268:THR:OG1	2.36	0.43
2:mY:94:ASP:OD1	2:mY:95:ASN:N	2.51	0.43
2:mY:173:LEU:HA	2:mY:215:SER:HB3	2.00	0.43
2:nd:238:ASN:O	2:nd:241:LYS:HG2	2.18	0.43
2:nl:30:THR:HG23	2:nl:298:LEU:HD13	1.98	0.43
2:nB:183:ILE:CG2	2:nB:207:ASP:HB2	2.47	0.43
2:nP:197:LYS:CE	1:pb:99:LEU:HA	2.48	0.43
2:nP:244:ASP:OD1	2:nP:245:ALA:N	2.50	0.43
1:nZ:101:VAL:O	1:nZ:101:VAL:HG23	2.19	0.43
2:ob:189:LYS:O	2:ob:190:PRO:C	2.61	0.43
2:oh:183:ILE:HD12	2:oh:183:ILE:H	1.82	0.43
2:oq:94:ASP:OD1	2:oq:95:ASN:N	2.51	0.43
2:or:24:LEU:HD11	2:ot:257:LEU:HD12	2.00	0.43
2:oD:46:THR:HG22	2:oD:74:GLN:CG	2.48	0.43
2:oD:189:LYS:O	2:oD:190:PRO:C	2.61	0.43
2:oG:226:LEU:HD21	2:oG:273:LYS:HB3	1.99	0.43
1:oO:60:ARG:HB2	1:oO:102:GLU:O	2.19	0.43
2:oR:18:LYS:HD2	2:oR:98:VAL:HG21	2.00	0.43
2:oS:94:ASP:OD1	2:oS:95:ASN:N	2.51	0.43
2:oT:63:ARG:HE	2:oW:205:MET:CE	2.30	0.43
2:oX:276:GLU:OE2	2:oX:280:VAL:HG21	2.19	0.43
2:pg:44:SER:OG	2:pg:45:ASN:N	2.51	0.43
2:pl:246:MET:HA	2:pl:249:GLN:HG2	2.00	0.43
2:pt:18:LYS:HD2	2:pt:98:VAL:HG21	2.00	0.43
2:pt:46:THR:HG22	2:pt:74:GLN:CG	2.48	0.43
2:py:200:ASP:N	2:py:200:ASP:OD1	2.50	0.43
1:pA:63:VAL:HG12	1:pA:75:LYS:H	1.82	0.43
1:pS:60:ARG:HB2	1:pS:102:GLU:O	2.18	0.43
2:pW:192:PHE:HZ	2:qb:196:THR:HG21	1.83	0.43
2:pZ:226:LEU:HD23	2:pZ:227:ALA:N	2.32	0.43
3:qi:66:GLN:O	3:qi:67:ARG:HG2	2.18	0.43
4:qj:46:HIS:O	4:qj:57:VAL:HG12	2.19	0.43
5:qp:380:MET:CE	5:qp:403:LEU:HD21	2.44	0.43
6:qq:83:LEU:HD11	6:qq:89:VAL:HG13	2.00	0.43
5:qr:380:MET:CE	5:qr:403:LEU:HD21	2.44	0.43
6:qy:112:LEU:HD21	6:qA:58:LEU:HD12	0.51	0.43
5:qz:42:PRO:CD	6:qE:133:ASP:OD1	2.59	0.43
5:qB:399:VAL:O	5:qB:403:LEU:HD23	2.18	0.43
6:qC:112:LEU:CD1	6:qE:58:LEU:HD12	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ag:189:LYS:O	2:ag:190:PRO:C	2.61	0.43
2:ah:57:ARG:NH2	2:ah:58:GLU:O	2.48	0.43
2:ah:193:THR:HG23	2:or:193:THR:HG22	1.99	0.43
2:ah:205:MET:CE	2:os:63:ARG:HD2	2.49	0.43
2:ai:63:ARG:HE	2:al:205:MET:CE	2.30	0.43
2:am:238:ASN:O	2:am:241:LYS:HG2	2.18	0.43
1:ap:95:SER:OG	1:ap:96:ASP:N	2.52	0.43
2:av:24:LEU:HD11	2:ax:257:LEU:HD12	2.00	0.43
2:aw:36:THR:HG22	2:aw:175:THR:HG22	2.00	0.43
2:az:236:GLN:HB2	2:az:240:GLU:HB3	2.00	0.43
2:az:246:MET:HA	2:az:249:GLN:HG2	2.00	0.43
1:aB:82:ASP:OD1	1:aB:83:GLY:N	2.51	0.43
1:aB:100:LYS:CB	1:mV:100:LYS:CE	2.92	0.43
1:aC:105:THR:OG1	2:hu:60:ILE:HG12	2.18	0.43
2:aH:46:THR:HG22	2:aH:74:GLN:CG	2.48	0.43
2:aI:177:ARG:HH11	2:aI:177:ARG:HG3	1.83	0.43
2:aJ:226:LEU:HD22	2:aJ:270:LEU:HD22	2.00	0.43
2:aN:229:MET:O	2:aN:285:ASN:ND2	2.52	0.43
1:aO:58:PHE:CE1	2:kb:3:ILE:HD11	2.53	0.43
1:aS:60:ARG:HB2	1:aS:102:GLU:O	2.18	0.43
1:aT:59:VAL:HG13	1:aT:59:VAL:O	2.18	0.43
2:aX:196:THR:OG1	2:cp:185:GLN:NE2	2.50	0.43
2:bj:3:ILE:HG22	2:bj:5:THR:H	1.83	0.43
2:bk:45:ASN:OD1	2:bk:75:ILE:HD12	2.18	0.43
2:bl:19:HIS:NE2	2:bn:38:ILE:HD13	2.34	0.43
2:bp:246:MET:HA	2:bp:249:GLN:HG2	2.00	0.43
1:bv:101:VAL:HG23	1:bv:101:VAL:O	2.18	0.43
2:by:94:ASP:OD1	2:by:95:ASN:N	2.51	0.43
2:by:177:ARG:HH11	2:by:177:ARG:HG3	1.83	0.43
2:by:219:VAL:O	2:by:219:VAL:CG1	2.66	0.43
2:bz:24:LEU:HD11	2:bB:257:LEU:HD12	2.00	0.43
1:bE:67:CYS:HA	1:bE:72:CYS:HA	2.00	0.43
1:bF:99:LEU:HG	2:bO:62:GLN:HE22	1.83	0.43
2:bQ:238:ASN:O	2:bQ:241:LYS:HG2	2.18	0.43
1:bR:59:VAL:HG12	1:bR:61:ALA:N	2.28	0.43
1:bS:100:LYS:CB	1:hQ:100:LYS:CE	2.92	0.43
1:bT:95:SER:OG	1:bT:96:ASP:N	2.52	0.43
1:bW:67:CYS:HA	1:bW:72:CYS:HA	1.98	0.43
2:bZ:57:ARG:NH2	2:bZ:58:GLU:O	2.48	0.43
2:bZ:192:PHE:HZ	2:ce:196:THR:HG21	1.83	0.43
2:ce:276:GLU:OE2	2:ce:280:VAL:HG21	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ck:59:VAL:HG13	1:ck:59:VAL:O	2.18	0.43
2:cn:3:ILE:HD11	1:pA:58:PHE:CE1	2.53	0.43
2:cB:44:SER:OG	2:cB:45:ASN:N	2.51	0.43
2:cB:173:LEU:HA	2:cB:215:SER:HB3	2.01	0.43
2:cC:196:THR:OG1	2:dV:185:GLN:NE2	2.50	0.43
2:cG:229:MET:O	2:cG:285:ASN:ND2	2.52	0.43
1:cM:101:VAL:HG23	1:cM:101:VAL:O	2.18	0.43
2:cO:62:GLN:OE1	1:eT:102:GLU:CD	2.53	0.43
2:cP:192:PHE:HZ	2:cU:196:THR:HG21	1.83	0.43
2:cP:278:VAL:O	2:cP:278:VAL:HG23	2.19	0.43
2:cR:185:GLN:OE1	2:cR:205:MET:HE3	2.17	0.43
2:cS:216:ARG:HB3	2:cS:219:VAL:HG12	2.00	0.43
2:cT:226:LEU:HA	2:cT:238:ASN:ND2	2.33	0.43
2:cU:276:GLU:OE2	2:cU:280:VAL:HG21	2.19	0.43
1:cX:95:SER:OG	1:cX:96:ASP:N	2.52	0.43
2:de:59:TRP:CE3	2:dh:79:LEU:HD13	2.54	0.43
2:df:226:LEU:HD21	2:df:273:LYS:HB3	1.99	0.43
2:dh:274:ALA:CB	2:dh:297:VAL:HG21	2.46	0.43
1:dm:58:PHE:CG	1:dm:101:VAL:HG21	2.54	0.43
1:dn:60:ARG:HB2	1:dn:102:GLU:O	2.18	0.43
1:do:101:VAL:HG23	1:do:101:VAL:O	2.19	0.43
2:dq:248:ASN:OD1	2:dw:268:THR:OG1	2.36	0.43
2:ds:179:LEU:HD22	2:ds:209:TYR:HD2	1.82	0.43
2:dv:237:VAL:O	2:dv:241:LYS:HB3	2.18	0.43
1:dx:63:VAL:HG12	1:dx:75:LYS:H	1.82	0.43
1:dD:100:LYS:NZ	1:fd:100:LYS:CD	2.71	0.43
2:dE:248:ASN:OD1	2:dK:268:THR:OG1	2.36	0.43
2:dF:44:SER:OG	2:dF:45:ASN:N	2.51	0.43
2:dK:106:MET:CE	2:dK:206:ALA:HB3	2.49	0.43
2:dK:183:ILE:HD12	2:dK:183:ILE:H	1.82	0.43
1:dL:102:GLU:CG	1:pe:99:LEU:HD23	2.19	0.43
2:dT:77:ASN:HD21	2:dT:179:LEU:HD11	1.84	0.43
2:dU:53:PHE:O	2:dU:255:ARG:NH2	2.43	0.43
2:dW:216:ARG:HB3	2:dW:219:VAL:HG12	2.00	0.43
1:eb:102:GLU:HB3	1:nW:99:LEU:HD23	1.95	0.43
1:ee:101:VAL:HG23	1:ee:101:VAL:O	2.18	0.43
2:eh:43:ALA:O	2:eh:77:ASN:ND2	2.50	0.43
2:ei:183:ILE:CG2	2:ei:207:ASP:HB2	2.47	0.43
2:em:276:GLU:OE2	2:em:280:VAL:HG21	2.19	0.43
1:en:58:PHE:CE1	2:nA:3:ILE:HD11	2.53	0.43
2:ev:173:LEU:HA	2:ev:215:SER:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ew:262:ASN:HA	2:ew:295:VAL:HG22	2.00	0.43
2:eL:60:ILE:HG12	1:ib:105:THR:OG1	2.18	0.43
2:eN:237:VAL:O	2:eN:241:LYS:HB3	2.18	0.43
1:eQ:100:LYS:CB	1:iG:100:LYS:CE	2.92	0.43
1:eU:57:VAL:HG22	1:eU:104:CYS:H	1.84	0.43
2:eW:3:ILE:HG22	2:eW:5:THR:H	1.83	0.43
2:eX:57:ARG:NH2	2:eX:58:GLU:O	2.48	0.43
2:eY:24:LEU:HD11	2:fa:257:LEU:HD12	2.01	0.43
2:fc:229:MET:O	2:fc:285:ASN:ND2	2.52	0.43
2:fk:98:VAL:HG12	2:fk:99:TYR:N	2.33	0.43
2:fp:89:THR:N	2:fp:200:ASP:OD2	2.36	0.43
1:fv:103:ARG:HD2	2:nl:61:GLY:CA	2.40	0.43
2:fy:248:ASN:OD1	2:fe:268:THR:OG1	2.36	0.43
2:fz:173:LEU:HA	2:fz:215:SER:HB3	2.01	0.43
2:fD:160:PHE:HB2	2:fD:270:LEU:HD11	2.00	0.43
1:fF:63:VAL:HG12	1:fF:75:LYS:H	1.83	0.43
2:fN:94:ASP:OD1	2:fN:95:ASN:N	2.51	0.43
2:fO:197:LYS:CE	1:ha:99:LEU:HA	2.49	0.43
2:fS:106:MET:CE	2:fS:206:ALA:HB3	2.49	0.43
2:fS:185:GLN:O	2:fS:205:MET:N	2.43	0.43
1:fU:98:LEU:HG	2:ge:62:GLN:CD	2.44	0.43
1:fW:63:VAL:HG23	1:fW:99:LEU:CD1	2.42	0.43
1:fY:57:VAL:HG22	1:fY:104:CYS:H	1.83	0.43
2:ga:189:LYS:O	2:ga:190:PRO:C	2.61	0.43
2:ga:246:MET:HE2	2:ga:259:ILE:CG2	2.48	0.43
2:gb:177:ARG:HH11	2:gb:177:ARG:HG3	1.83	0.43
2:gc:19:HIS:NE2	2:ge:38:ILE:HD13	2.34	0.43
2:ge:216:ARG:HB3	2:ge:219:VAL:HG12	2.00	0.43
2:gg:236:GLN:HB2	2:gg:240:GLU:HB3	2.00	0.43
2:go:246:MET:HE2	2:go:259:ILE:CG2	2.48	0.43
2:gp:63:ARG:HD2	2:hT:205:MET:CE	2.49	0.43
2:gp:94:ASP:OD1	2:gp:95:ASN:N	2.51	0.43
2:gq:63:ARG:HE	2:gt:205:MET:CE	2.30	0.43
2:gD:177:ARG:HH11	2:gD:177:ARG:HG3	1.83	0.43
2:gE:59:TRP:CE3	2:gH:79:LEU:HD13	2.54	0.43
2:gI:236:GLN:HB2	2:gI:240:GLU:HB3	2.00	0.43
2:gI:276:GLU:OE2	2:gI:280:VAL:HG21	2.19	0.43
1:gO:57:VAL:HG22	1:gO:104:CYS:H	1.83	0.43
2:gQ:246:MET:HE2	2:gQ:259:ILE:CG2	2.48	0.43
2:gQ:248:ASN:OD1	2:gW:268:THR:OG1	2.36	0.43
2:gR:177:ARG:HH11	2:gR:177:ARG:HG3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gV:160:PHE:HB2	2:gV:270:LEU:HD11	2.00	0.43
2:gW:276:GLU:OE2	2:gW:280:VAL:HG21	2.19	0.43
2:hk:106:MET:CE	2:hk:206:ALA:HB3	2.49	0.43
2:hs:3:ILE:HG22	2:hs:5:THR:H	1.83	0.43
2:ht:226:LEU:HD22	2:ht:270:LEU:HD22	2.00	0.43
2:ht:262:ASN:HA	2:ht:295:VAL:HG22	2.00	0.43
2:hx:144:TYR:HH	2:hx:254:GLY:H	1.64	0.43
1:hD:59:VAL:O	1:hD:59:VAL:HG13	2.18	0.43
2:hG:19:HIS:NE2	2:hI:38:ILE:HD13	2.34	0.43
2:hK:229:MET:O	2:hK:285:ASN:ND2	2.52	0.43
2:hX:237:VAL:O	2:hX:241:LYS:HB3	2.18	0.43
2:iu:248:ASN:OD1	2:iA:268:THR:OG1	2.36	0.43
2:iw:196:THR:OG1	2:pY:185:GLN:NE2	2.50	0.43
2:iz:160:PHE:HB2	2:iz:270:LEU:HD11	2.00	0.43
1:iD:105:THR:OG1	2:pw:60:ILE:HG12	2.18	0.43
1:iF:60:ARG:HB2	1:iF:102:GLU:O	2.19	0.43
2:iL:36:THR:HG22	2:iL:175:THR:HG22	2.00	0.43
2:iN:237:VAL:O	2:iN:241:LYS:HB3	2.18	0.43
1:iR:95:SER:OG	1:iR:96:ASP:N	2.52	0.43
1:iR:99:LEU:HB3	1:kj:102:GLU:CD	2.37	0.43
2:iX:3:ILE:HD11	1:jr:58:PHE:CE1	2.53	0.43
2:iY:226:LEU:HD22	2:iY:270:LEU:HD22	2.00	0.43
2:iY:280:VAL:O	2:iY:289:ASN:ND2	2.50	0.43
2:jc:106:MET:CE	2:jc:206:ALA:HB3	2.49	0.43
1:ji:57:VAL:HG22	1:ji:104:CYS:H	1.84	0.43
2:jk:62:GLN:OE1	1:lo:102:GLU:CD	2.53	0.43
2:jl:3:ILE:HD11	1:ly:58:PHE:CE1	2.53	0.43
2:jl:205:MET:CE	2:ls:63:ARG:HD2	2.49	0.43
2:jm:96:LEU:HB2	2:jm:98:VAL:HG22	1.99	0.43
2:jy:189:LYS:O	2:jy:190:PRO:C	2.61	0.43
2:jB:234:LEU:HA	2:jB:238:ASN:OD1	2.17	0.43
1:jG:99:LEU:HG	2:jQ:62:GLN:HE22	1.83	0.43
1:jH:105:THR:OG1	2:os:60:ILE:HG12	2.18	0.43
2:jM:248:ASN:OD1	2:jS:268:THR:OG1	2.36	0.43
2:jN:219:VAL:O	2:jN:219:VAL:CG1	2.66	0.43
2:jR:263:LEU:HD23	2:jR:296:GLN:HE21	1.83	0.43
2:kc:226:LEU:HD22	2:kc:270:LEU:HD22	2.00	0.43
2:kf:200:ASP:N	2:kf:200:ASP:OD1	2.50	0.43
2:kg:106:MET:CE	2:kg:206:ALA:HB3	2.49	0.43
1:ki:98:LEU:HG	2:kr:62:GLN:CD	2.44	0.43
1:km:59:VAL:O	1:km:59:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ko:248:ASN:OD1	2:kt:268:THR:OG1	2.36	0.43
2:kp:63:ARG:HE	2:ks:205:MET:CE	2.30	0.43
2:kq:185:GLN:OE1	2:kq:205:MET:HE3	2.17	0.43
2:ks:237:VAL:O	2:ks:241:LYS:HB3	2.18	0.43
2:kB:246:MET:HE2	2:kB:259:ILE:CG2	2.48	0.43
2:kG:160:PHE:HB2	2:kG:270:LEU:HD11	2.00	0.43
2:kH:236:GLN:HB2	2:kH:240:GLU:HB3	2.00	0.43
1:kN:57:VAL:HG22	1:kN:104:CYS:H	1.83	0.43
2:kR:226:LEU:HD22	2:kR:270:LEU:HD22	2.00	0.43
1:kY:99:LEU:CA	1:oy:102:GLU:OE1	2.28	0.43
1:la:60:ARG:HB2	1:la:102:GLU:O	2.18	0.43
1:lb:100:LYS:CE	1:nf:100:LYS:CB	2.92	0.43
2:ld:248:ASN:OD1	2:lj:268:THR:OG1	2.36	0.43
2:lf:96:LEU:HB2	2:lf:98:VAL:HG22	1.99	0.43
2:lg:36:THR:HG22	2:lg:175:THR:HG22	2.00	0.43
2:ls:44:SER:OG	2:ls:45:ASN:N	2.51	0.43
2:ls:94:ASP:OD1	2:ls:95:ASN:N	2.51	0.43
2:lt:19:HIS:NE2	2:lv:38:ILE:HD13	2.34	0.43
1:ly:63:VAL:HG12	1:ly:75:LYS:H	1.83	0.43
1:lD:57:VAL:HG22	1:lD:104:CYS:H	1.84	0.43
2:lF:248:ASN:OD1	2:lL:268:THR:OG1	2.36	0.43
1:lP:58:PHE:CG	1:lP:101:VAL:HG21	2.54	0.43
2:lT:46:THR:HG22	2:lT:74:GLN:CG	2.48	0.43
2:lT:246:MET:HE2	2:lT:259:ILE:CG2	2.48	0.43
2:lT:248:ASN:OD1	2:lZ:268:THR:OG1	2.36	0.43
2:lY:200:ASP:N	2:lY:200:ASP:OD1	2.50	0.43
2:mi:177:ARG:HH11	2:mi:177:ARG:HG3	1.83	0.43
2:mn:238:ASN:O	2:mn:241:LYS:HG2	2.18	0.43
1:ms:60:ARG:HB2	1:ms:102:GLU:O	2.18	0.43
2:mA:200:ASP:OD1	2:mA:200:ASP:N	2.50	0.43
2:mB:106:MET:CE	2:mB:206:ALA:HB3	2.49	0.43
2:mK:63:ARG:HD2	2:oq:205:MET:CE	2.49	0.43
2:mX:43:ALA:O	2:mX:44:SER:OG	2.20	0.43
2:mZ:59:TRP:CE3	2:nc:79:LEU:HD13	2.54	0.43
1:ng:95:SER:OG	1:ng:96:ASP:N	2.52	0.43
1:nh:62:THR:HG21	1:nh:97:PRO:HB3	2.00	0.43
2:nm:177:ARG:HH11	2:nm:177:ARG:HG3	1.83	0.43
2:nn:80:PHE:HA	2:np:59:TRP:HB3	1.99	0.43
2:no:226:LEU:HD21	2:no:273:LYS:HB3	1.99	0.43
2:nq:160:PHE:HB2	2:nq:270:LEU:HD11	2.00	0.43
2:nq:263:LEU:HD23	2:nq:296:GLN:HE21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nr:276:GLU:OE2	2:nr:280:VAL:HG21	2.19	0.43
1:nv:62:THR:HG21	1:nv:97:PRO:HB3	2.00	0.43
2:nB:19:HIS:NE2	2:nD:38:ILE:HD13	2.34	0.43
2:nC:37:VAL:HG13	2:nC:37:VAL:O	2.17	0.43
2:nE:263:LEU:HD23	2:nE:296:GLN:HE21	1.83	0.43
1:nJ:62:THR:HG21	1:nJ:97:PRO:HB3	2.00	0.43
1:nK:60:ARG:HB2	1:nK:102:GLU:O	2.18	0.43
2:nN:3:ILE:HG22	2:nN:5:THR:H	1.83	0.43
2:nP:19:HIS:NE2	2:nR:38:ILE:HD13	2.34	0.43
2:nQ:60:ILE:HG12	1:pa:105:THR:OG1	2.18	0.43
2:nS:237:VAL:O	2:nS:241:LYS:HB3	2.18	0.43
2:ob:3:ILE:HG22	2:ob:5:THR:H	1.83	0.43
2:od:226:LEU:HD22	2:od:270:LEU:HD22	2.00	0.43
2:og:263:LEU:HD23	2:og:296:GLN:HE21	1.83	0.43
1:oi:63:VAL:HG12	1:oi:75:LYS:H	1.83	0.43
2:op:18:LYS:HD2	2:op:98:VAL:HG21	2.00	0.43
2:op:98:VAL:HG12	2:op:99:TYR:N	2.32	0.43
2:oD:9:ILE:HD12	2:oD:12:LEU:HG	1.99	0.43
2:oJ:106:MET:CE	2:oJ:206:ALA:HB3	2.49	0.43
2:oW:226:LEU:HA	2:oW:238:ASN:ND2	2.33	0.43
2:oX:246:MET:HA	2:oX:249:GLN:HG2	2.00	0.43
1:pr:101:VAL:O	1:pr:101:VAL:HG23	2.18	0.43
2:pt:246:MET:HE2	2:pt:259:ILE:CG2	2.48	0.43
1:pA:67:CYS:HA	1:pA:72:CYS:HA	2.00	0.43
1:pB:82:ASP:OD1	1:pB:83:GLY:N	2.51	0.43
2:pI:192:PHE:HZ	2:pN:196:THR:HG21	1.83	0.43
1:pP:99:LEU:HG	2:pZ:62:GLN:HE22	1.83	0.43
1:pR:58:PHE:CG	1:pR:101:VAL:HG21	2.54	0.43
1:pR:62:THR:HG21	1:pR:97:PRO:HB3	2.00	0.43
2:pX:24:LEU:HD11	2:pZ:257:LEU:HD12	2.00	0.43
3:qi:55:GLU:OE1	4:qo:223:ASN:HB3	2.18	0.43
4:qo:46:HIS:O	4:qo:57:VAL:HG12	2.18	0.43
5:qr:239:TYR:CZ	6:qu:123:ASN:HB3	2.52	0.43
5:qr:317:PHE:HZ	5:qt:319:LEU:CD1	2.18	0.43
5:qr:399:VAL:O	5:qr:403:LEU:HD23	2.18	0.43
5:qv:385:PRO:HA	5:qv:388:VAL:HG22	1.98	0.43
6:qw:112:LEU:HD21	6:qy:58:LEU:HD12	0.51	0.43
6:qw:112:LEU:CD1	6:qy:58:LEU:HD12	2.48	0.43
6:qA:112:LEU:CD1	6:qC:58:LEU:HD12	2.48	0.43
5:qF:284:PRO:CB	5:qH:227:LEU:HD21	2.48	0.43
5:qH:248:LYS:NZ	6:qK:121:VAL:CG1	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ab:105:THR:OG1	2:mM:60:ILE:HG12	2.18	0.43
1:ac:99:LEU:HD22	1:mD:60:ARG:HG2	2.01	0.43
2:ah:77:ASN:HD21	2:ah:179:LEU:HD11	1.84	0.43
2:ai:59:TRP:CE3	2:al:79:LEU:HD13	2.54	0.43
2:ak:57:ARG:HD3	2:ak:58:GLU:N	2.32	0.43
2:am:106:MET:CE	2:am:206:ALA:HB3	2.49	0.43
1:ao:100:LYS:CB	1:gm:100:LYS:CE	2.92	0.43
2:au:98:VAL:HG12	2:au:99:TYR:N	2.33	0.43
2:av:262:ASN:HA	2:av:295:VAL:HG22	1.99	0.43
2:az:183:ILE:HD13	5:qH:178:PRO:HB2	1.99	0.43
2:az:183:ILE:HD12	2:az:183:ILE:H	1.83	0.43
1:aC:60:ARG:NE	1:hn:99:LEU:HD22	2.12	0.43
2:aI:3:ILE:HD11	1:jd:58:PHE:CE1	2.53	0.43
2:aM:226:LEU:HA	2:aM:238:ASN:ND2	2.33	0.43
2:aM:237:VAL:O	2:aM:241:LYS:HB3	2.18	0.43
2:aN:62:GLN:HE22	1:hm:104:CYS:HA	1.82	0.43
2:aW:44:SER:OG	2:aW:45:ASN:N	2.51	0.43
2:aX:59:TRP:CE3	2:ba:79:LEU:HD13	2.54	0.43
2:aZ:216:ARG:HB3	2:aZ:219:VAL:HG12	2.00	0.43
2:bb:106:MET:CE	2:bb:206:ALA:HB3	2.49	0.43
1:be:95:SER:OG	1:be:96:ASP:N	2.52	0.43
1:bf:99:LEU:HA	2:kp:197:LYS:CE	2.48	0.43
1:bh:101:VAL:O	1:bh:101:VAL:HG23	2.19	0.43
2:bk:94:ASP:OD1	2:bk:95:ASN:N	2.51	0.43
2:bp:229:MET:O	2:bp:285:ASN:ND2	2.52	0.43
2:bp:238:ASN:O	2:bp:241:LYS:HG2	2.18	0.43
1:bs:102:GLU:HB3	1:bT:99:LEU:HD23	1.96	0.43
2:by:205:MET:CE	2:hT:63:ARG:HD2	2.49	0.43
2:bA:37:VAL:O	2:bA:37:VAL:HG13	2.17	0.43
2:bC:226:LEU:HA	2:bC:238:ASN:ND2	2.33	0.43
2:bP:237:VAL:O	2:bP:241:LYS:HB3	2.18	0.43
1:bW:101:VAL:HG23	1:bW:101:VAL:O	2.18	0.43
2:bZ:75:ILE:HG21	2:bZ:177:ARG:NH1	2.32	0.43
2:ca:19:HIS:NE2	2:cc:38:ILE:HD13	2.33	0.43
2:cd:226:LEU:HA	2:cd:238:ASN:ND2	2.33	0.43
1:cg:82:ASP:OD1	1:cg:83:GLY:N	2.51	0.43
1:ch:95:SER:OG	1:ch:96:ASP:N	2.52	0.43
2:cn:63:ARG:HD2	2:iv:205:MET:CE	2.49	0.43
2:co:24:LEU:HD11	2:cq:257:LEU:HD12	2.00	0.43
2:co:226:LEU:HD22	2:co:270:LEU:HD22	2.00	0.43
2:cr:160:PHE:HB2	2:cr:270:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cs:229:MET:O	2:cs:285:ASN:ND2	2.52	0.43
1:cw:62:THR:HG21	1:cw:97:PRO:HB3	2.00	0.43
2:cA:3:ILE:HG22	2:cA:5:THR:H	1.83	0.43
2:cA:246:MET:HE2	2:cA:259:ILE:CG2	2.48	0.43
2:cB:141:HIS:CD2	2:cB:150:THR:HG1	2.34	0.43
2:cB:177:ARG:HH11	2:cB:177:ARG:HG3	1.83	0.43
2:cB:193:THR:HG23	2:cO:193:THR:HG22	1.99	0.43
2:cG:276:GLU:OE2	2:cG:280:VAL:HG21	2.19	0.43
1:cH:63:VAL:HG12	1:cH:75:LYS:H	1.82	0.43
1:cM:57:VAL:HG22	1:cM:104:CYS:H	1.84	0.43
1:cM:63:VAL:HG13	1:cM:74:ASP:HB3	1.99	0.43
2:cP:94:ASP:OD1	2:cP:95:ASN:N	2.51	0.43
2:cP:205:MET:CE	2:eX:63:ARG:HD2	2.49	0.43
2:cU:106:MET:CE	2:cU:206:ALA:HB3	2.49	0.43
2:cU:183:ILE:HD12	2:cU:183:ILE:H	1.83	0.43
1:cW:60:ARG:HG2	1:gy:99:LEU:HD22	2.01	0.43
1:cW:99:LEU:HG	2:dg:62:GLN:HE22	1.83	0.43
1:cY:58:PHE:CG	1:cY:101:VAL:HG21	2.54	0.43
1:cY:99:LEU:HD22	1:dy:60:ARG:HG2	2.01	0.43
1:cZ:60:ARG:HB2	1:cZ:102:GLU:O	2.18	0.43
1:da:57:VAL:HG22	1:da:104:CYS:H	1.84	0.43
1:da:101:VAL:HG23	1:da:101:VAL:O	2.18	0.43
2:dc:246:MET:HE2	2:dc:259:ILE:CG2	2.48	0.43
2:de:24:LEU:HD11	2:dg:257:LEU:HD12	2.00	0.43
2:di:238:ASN:O	2:di:241:LYS:HG2	2.18	0.43
2:di:276:GLU:OE2	2:di:280:VAL:HG21	2.19	0.43
2:dr:44:SER:OG	2:dr:45:ASN:N	2.51	0.43
2:dt:234:LEU:HA	2:dt:238:ASN:OD1	2.17	0.43
2:dw:229:MET:O	2:dw:285:ASN:ND2	2.52	0.43
1:dA:99:LEU:HA	2:gE:197:LYS:CE	2.48	0.43
1:dC:101:VAL:HG23	1:dC:101:VAL:O	2.18	0.43
2:dF:3:ILE:HD11	1:pm:58:PHE:CE1	2.53	0.43
2:dG:59:TRP:CE3	2:dJ:79:LEU:HD13	2.54	0.43
2:dK:236:GLN:HB2	2:dK:240:GLU:HB3	2.00	0.43
1:dM:99:LEU:HG	2:dW:62:GLN:HE22	1.83	0.43
1:dN:99:LEU:CA	1:pC:102:GLU:OE1	2.28	0.43
1:dP:57:VAL:O	1:dP:59:VAL:HG23	2.17	0.43
2:dS:18:LYS:HD2	2:dS:98:VAL:HG21	2.00	0.43
2:dS:98:VAL:HG12	2:dS:99:TYR:N	2.32	0.43
2:dT:45:ASN:OD1	2:dT:75:ILE:HD12	2.18	0.43
2:dT:75:ILE:HG21	2:dT:177:ARG:NH1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dW:57:ARG:HD3	2:dW:58:GLU:N	2.32	0.43
2:dX:274:ALA:CB	2:dX:297:VAL:HG21	2.46	0.43
2:dY:144:TYR:HH	2:dY:254:GLY:H	1.65	0.43
2:dY:251:ALA:HB2	2:dY:257:LEU:HD21	2.01	0.43
2:dY:276:GLU:OE2	2:dY:280:VAL:HG21	2.19	0.43
1:dZ:63:VAL:HG12	1:dZ:75:LYS:H	1.83	0.43
1:ec:58:PHE:CG	1:ec:101:VAL:HG21	2.54	0.43
2:eg:3:ILE:HG22	2:eg:5:THR:H	1.83	0.43
2:eg:248:ASN:OD1	2:em:268:THR:OG1	2.36	0.43
2:eh:3:ILE:HD11	1:eB:58:PHE:CE1	2.53	0.43
2:ei:19:HIS:NE2	2:ek:38:ILE:HD13	2.34	0.43
2:em:236:GLN:HB2	2:em:240:GLU:HB3	2.00	0.43
2:eu:3:ILE:HG22	2:eu:5:THR:H	1.83	0.43
2:eA:246:MET:HA	2:eA:249:GLN:HG2	2.00	0.43
2:eA:276:GLU:OE2	2:eA:280:VAL:HG21	2.19	0.43
1:eD:102:GLU:HB3	1:ff:99:LEU:HD23	1.96	0.43
1:eE:58:PHE:CG	1:eE:101:VAL:HG21	2.54	0.43
1:eE:62:THR:HG21	1:eE:97:PRO:HB3	2.00	0.43
2:eJ:44:SER:OG	2:eJ:45:ASN:N	2.51	0.43
2:eJ:45:ASN:OD1	2:eJ:75:ILE:HD12	2.18	0.43
2:eJ:192:PHE:HZ	2:eO:196:THR:HG21	1.83	0.43
2:eK:262:ASN:HA	2:eK:295:VAL:HG22	2.00	0.43
1:ff:105:THR:OG1	2:ij:60:ILE:HG12	2.18	0.43
2:fl:3:ILE:HD11	1:nG:58:PHE:CE1	2.53	0.43
2:fl:173:LEU:HA	2:fl:215:SER:HB3	2.01	0.43
2:fl:192:PHE:HZ	2:fq:196:THR:HG21	1.83	0.43
2:fp:200:ASP:N	2:fp:200:ASP:OD1	2.50	0.43
2:fq:229:MET:O	2:fq:285:ASN:ND2	2.52	0.43
1:fr:58:PHE:CE1	2:gD:3:ILE:HD11	2.53	0.43
1:fs:98:LEU:HG	2:fC:62:GLN:CD	2.44	0.43
2:fy:193:THR:HG22	2:nm:193:THR:HG23	1.99	0.43
2:fz:205:MET:CE	2:mi:63:ARG:HD2	2.49	0.43
2:fA:179:LEU:HD22	2:fA:209:TYR:HD2	1.82	0.43
2:fB:37:VAL:O	2:fB:37:VAL:HG13	2.17	0.43
2:fD:226:LEU:HA	2:fD:238:ASN:ND2	2.33	0.43
2:fE:106:MET:CE	2:fE:206:ALA:HB3	2.49	0.43
2:fN:193:THR:HG23	2:ga:193:THR:HG22	1.99	0.43
2:fN:282:ARG:NH2	2:IU:282:ARG:HH11	1.94	0.43
2:fP:226:LEU:HD21	2:fP:273:LYS:HB3	1.99	0.43
2:fS:183:ILE:HD12	2:fS:183:ILE:H	1.82	0.43
2:gc:63:ARG:HE	2:gf:205:MET:CE	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gd:226:LEU:HD21	2:gd:273:LYS:HB3	1.99	0.43
2:gg:106:MET:CE	2:gg:206:ALA:HB3	2.49	0.43
2:gg:183:ILE:HD12	2:gg:183:ILE:H	1.82	0.43
1:gi:98:LEU:HG	2:gs:62:GLN:CD	2.44	0.43
1:gl:103:ARG:HD2	2:hS:61:GLY:CA	2.40	0.43
2:gp:77:ASN:HD21	2:gp:179:LEU:HD11	1.84	0.43
2:gu:62:GLN:HE22	1:gK:104:CYS:HA	1.82	0.43
2:gu:251:ALA:HB2	2:gu:257:LEU:HD21	2.01	0.43
1:gv:58:PHE:CE1	2:hT:3:ILE:HD11	2.53	0.43
1:gx:95:SER:OG	1:gx:96:ASP:N	2.52	0.43
2:gE:19:HIS:NE2	2:gG:38:ILE:HD13	2.34	0.43
2:gF:37:VAL:O	2:gF:37:VAL:HG13	2.17	0.43
2:gG:57:ARG:HD3	2:gG:58:GLU:N	2.32	0.43
1:gO:101:VAL:HG23	1:gO:101:VAL:O	2.18	0.43
2:gR:192:PHE:HZ	2:gW:196:THR:HG21	1.83	0.43
2:gS:226:LEU:HD22	2:gS:270:LEU:HD22	2.00	0.43
1:ha:58:PHE:CG	1:ha:101:VAL:HG21	2.54	0.43
2:he:189:LYS:O	2:he:190:PRO:C	2.61	0.43
2:hF:63:ARG:NE	2:lG:205:MET:CE	2.74	0.43
2:hF:177:ARG:HH11	2:hF:177:ARG:HG3	1.83	0.43
2:hG:226:LEU:HD22	2:hG:270:LEU:HD22	2.00	0.43
2:hK:14:THR:CG2	2:lG:12:LEU:HD21	2.46	0.43
2:hK:276:GLU:OE2	2:hK:280:VAL:HG21	2.19	0.43
2:hS:246:MET:HE2	2:hS:259:ILE:CG2	2.48	0.43
2:ht:19:HIS:NE2	2:hV:38:ILE:HD13	2.34	0.43
2:hV:216:ARG:HB3	2:hV:219:VAL:HG12	1.99	0.43
2:hX:251:ALA:HB2	2:hX:257:LEU:HD21	2.01	0.43
1:hB:58:PHE:CG	1:hB:101:VAL:HG21	2.54	0.43
1:hD:57:VAL:HG22	1:hD:104:CYS:H	1.84	0.43
2:hH:60:ILE:HG12	1:kw:105:THR:OG1	2.18	0.43
2:hK:91:ILE:HG13	5:qt:47:ARG:HD2	2.01	0.43
1:hO:58:PHE:CG	1:hO:101:VAL:HG21	2.54	0.43
2:hS:246:MET:HE2	2:hS:259:ILE:CG2	2.48	0.43
2:hS:248:ASN:OD1	2:hY:268:THR:OG1	2.36	0.43
2:ig:189:LYS:O	2:ig:190:PRO:C	2.61	0.43
2:ih:77:ASN:HD21	2:ih:179:LEU:HD11	1.84	0.43
2:ii:59:TRP:CE3	2:il:79:LEU:HD13	2.54	0.43
2:ii:183:ILE:CG2	2:ii:207:ASP:HB2	2.47	0.43
2:ij:36:THR:HG22	2:ij:175:THR:HG22	2.00	0.43
2:ij:226:LEU:HD21	2:ij:273:LYS:HB3	1.99	0.43
1:ip:102:GLU:HB3	1:lm:99:LEU:HD23	1.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iq:62:THR:HG21	1:iq:97:PRO:HB3	2.00	0.43
1:iq:99:LEU:HA	2:lt:197:LYS:CE	2.49	0.43
1:ir:102:GLU:HG2	2:jM:62:GLN:OE1	2.02	0.43
2:iv:77:ASN:HD21	2:iv:179:LEU:HD11	1.84	0.43
2:iw:59:TRP:CE3	2:iz:79:LEU:HD13	2.54	0.43
2:iw:226:LEU:HD22	2:iw:270:LEU:HD22	2.00	0.43
2:iL:3:ILE:HG22	2:iL:5:THR:H	1.83	0.43
2:iJ:173:LEU:HA	2:iJ:215:SER:HB3	2.01	0.43
2:iN:226:LEU:HA	2:iN:238:ASN:ND2	2.33	0.43
2:iW:3:ILE:HG22	2:iW:5:THR:H	1.83	0.43
2:iX:45:ASN:OD1	2:iX:75:ILE:HD12	2.18	0.43
2:iX:177:ARG:HH11	2:iX:177:ARG:HG3	1.83	0.43
2:iY:80:PHE:HA	2:ja:59:TRP:HB3	1.99	0.43
2:jb:263:LEU:HD23	2:jb:296:GLN:HE21	1.84	0.43
2:jc:276:GLU:OE2	2:jc:280:VAL:HG21	2.19	0.43
1:jh:57:VAL:O	1:jh:59:VAL:HG23	2.17	0.43
2:jk:248:ASN:OD1	2:jQ:268:THR:OG1	2.36	0.43
2:jP:226:LEU:HA	2:jP:238:ASN:ND2	2.33	0.43
2:jQ:276:GLU:OE2	2:jQ:280:VAL:HG21	2.19	0.43
1:jw:57:VAL:HG22	1:jw:104:CYS:H	1.84	0.43
2:jz:94:ASP:OD1	2:jz:95:ASN:N	2.51	0.43
2:jA:19:HIS:NE2	2:jC:38:ILE:HD13	2.33	0.43
2:jB:226:LEU:HD21	2:jB:273:LYS:HB3	1.99	0.43
2:jE:236:GLN:HB2	2:jE:240:GLU:HB3	2.00	0.43
2:jE:238:ASN:O	2:jE:241:LYS:HG2	2.18	0.43
1:jL:58:PHE:CG	1:jL:101:VAL:HG21	2.54	0.43
1:jL:62:THR:HG21	1:jL:97:PRO:HB3	2.00	0.43
2:jN:45:ASN:OD1	2:jN:75:ILE:HD12	2.18	0.43
2:jO:19:HIS:NE2	2:jQ:38:ILE:HD13	2.34	0.43
2:jO:280:VAL:O	2:jO:289:ASN:ND2	2.50	0.43
2:jP:36:THR:HG22	2:jP:175:THR:HG22	2.00	0.43
1:jW:99:LEU:HA	2:mZ:197:LYS:CE	2.49	0.43
2:kb:75:ILE:HG21	2:kb:177:ARG:NH1	2.32	0.43
2:kc:63:ARG:HE	2:kf:205:MET:CE	2.30	0.43
2:kg:236:GLN:HB2	2:kg:240:GLU:HB3	2.00	0.43
2:kg:238:ASN:O	2:kg:241:LYS:HG2	2.18	0.43
1:km:86:SER:O	1:km:90:LEU:N	2.51	0.43
2:kt:103:MET:HE1	5:qD:55:GLY:O	2.18	0.43
1:kv:99:LEU:HG	2:kF:62:GLN:HE22	1.83	0.43
1:kx:58:PHE:CG	1:kx:101:VAL:HG21	2.54	0.43
2:kC:44:SER:OG	2:kC:45:ASN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kC:173:LEU:HA	2:kC:215:SER:HB3	2.01	0.43
2:kC:205:MET:CE	2:kQ:63:ARG:HD2	2.49	0.43
2:kE:36:THR:HG22	2:kE:175:THR:HG22	2.00	0.43
2:kG:238:ASN:O	2:kG:242:VAL:CG2	2.62	0.43
2:kP:189:LYS:O	2:kP:190:PRO:C	2.61	0.43
2:kQ:205:MET:CE	2:mY:63:ARG:HD2	2.49	0.43
2:kU:160:PHE:HB2	2:kU:270:LEU:HD11	2.00	0.43
2:kU:237:VAL:O	2:kU:241:LYS:HB3	2.18	0.43
2:le:173:LEU:HA	2:le:215:SER:HB3	2.01	0.43
2:lf:24:LEU:HD11	2:lh:257:LEU:HD12	2.00	0.43
2:lf:65:ILE:HD12	2:li:203:VAL:HG13	1.99	0.43
2:lh:57:ARG:HD3	2:lh:58:GLU:N	2.32	0.43
1:lm:105:THR:OG1	2:pY:60:ILE:HG12	2.18	0.43
1:lp:57:VAL:HG22	1:lp:104:CYS:H	1.83	0.43
1:lp:96:ASP:HB2	2:lt:64:VAL:HG13	1.99	0.43
2:ls:77:ASN:HD21	2:ls:179:LEU:HD11	1.84	0.43
2:ls:173:LEU:HA	2:ls:215:SER:HB3	2.01	0.43
2:lx:106:MET:CE	2:lx:206:ALA:HB3	2.49	0.43
1:ID:59:VAL:HG13	1:ID:59:VAL:O	2.18	0.43
2:IH:63:ARG:HE	2:IK:205:MET:CE	2.30	0.43
2:IH:262:ASN:HA	2:IH:295:VAL:HG22	1.99	0.43
1:IM:57:VAL:HB	1:IM:59:VAL:HG23	1.99	0.43
2:IU:43:ALA:O	2:IU:77:ASN:ND2	2.50	0.43
2:IU:45:ASN:OD1	2:IU:75:ILE:HD12	2.18	0.43
2:IV:19:HIS:NE2	2:IX:38:ILE:HD13	2.34	0.43
2:IV:262:ASN:HA	2:IV:295:VAL:HG22	2.00	0.43
2:IY:237:VAL:O	2:IY:241:LYS:HB3	2.18	0.43
2:IY:274:ALA:CB	2:IY:297:VAL:HG21	2.46	0.43
1:ma:57:VAL:HB	1:ma:59:VAL:HG23	1.99	0.43
1:ma:63:VAL:HG12	1:ma:75:LYS:H	1.82	0.43
2:mk:37:VAL:O	2:mk:37:VAL:HG13	2.17	0.43
1:mo:102:GLU:CG	1:mu:99:LEU:HD23	2.19	0.43
2:mx:226:LEU:HD22	2:mx:270:LEU:HD22	2.00	0.43
2:mM:36:THR:HG22	2:mM:175:THR:HG22	2.00	0.43
2:mO:263:LEU:HD23	2:mO:296:GLN:HE21	1.83	0.43
1:mR:98:LEU:HG	2:nb:62:GLN:CD	2.44	0.43
1:mV:59:VAL:O	1:mV:59:VAL:HG13	2.18	0.43
2:na:226:LEU:HD21	2:na:273:LYS:HB3	1.99	0.43
2:na:277:VAL:O	2:na:289:ASN:ND2	2.48	0.43
2:nm:94:ASP:OD1	2:nm:95:ASN:N	2.51	0.43
2:nn:226:LEU:HD22	2:nn:270:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:no:37:VAL:HG13	2:no:37:VAL:O	2.17	0.43
2:nr:185:GLN:O	2:nr:205:MET:N	2.43	0.43
1:nx:101:VAL:O	1:nx:101:VAL:HG23	2.18	0.43
2:nz:246:MET:HE2	2:nz:259:ILE:CG2	2.48	0.43
2:nA:21:GLN:O	2:nA:22:ASP:OD1	2.37	0.43
2:nA:177:ARG:HH11	2:nA:177:ARG:HG3	1.83	0.43
2:nC:185:GLN:OE1	2:nC:205:MET:HE3	2.17	0.43
2:nF:106:MET:CE	2:nF:206:ALA:HB3	2.49	0.43
1:nH:98:LEU:HG	2:nR:62:GLN:CD	2.44	0.43
2:nO:94:ASP:OD1	2:nO:95:ASN:N	2.51	0.43
2:nP:196:THR:OG1	2:pi:185:GLN:NE2	2.50	0.43
1:nU:67:CYS:HA	1:nU:72:CYS:HA	2.00	0.43
2:od:19:HIS:NE2	2:of:38:ILE:HD13	2.34	0.43
2:og:274:ALA:CB	2:og:297:VAL:HG21	2.46	0.43
2:oh:276:GLU:OE2	2:oh:280:VAL:HG21	2.19	0.43
1:on:59:VAL:O	1:on:59:VAL:HG13	2.18	0.43
1:on:101:VAL:O	1:on:101:VAL:HG23	2.18	0.43
2:oq:63:ARG:HD2	2:pW:205:MET:CE	2.49	0.43
2:ou:160:PHE:HB2	2:ou:270:LEU:HD11	2.00	0.43
2:ou:237:VAL:O	2:ou:241:LYS:HB3	2.18	0.43
2:ov:238:ASN:O	2:ov:241:LYS:HG2	2.18	0.43
1:oA:60:ARG:HB2	1:oA:102:GLU:O	2.19	0.43
2:oD:18:LYS:HD2	2:oD:98:VAL:HG21	2.00	0.43
2:oE:21:GLN:O	2:oE:22:ASP:OD1	2.37	0.43
2:oI:200:ASP:N	2:oI:200:ASP:OD1	2.50	0.43
2:oJ:236:GLN:HB2	2:oJ:240:GLU:HB3	2.00	0.43
1:oP:59:VAL:O	1:oP:59:VAL:HG13	2.18	0.43
2:oU:37:VAL:O	2:oU:37:VAL:HG13	2.17	0.43
2:oX:236:GLN:HB2	2:oX:240:GLU:HB3	2.00	0.43
1:pb:58:PHE:CG	1:pb:101:VAL:HG21	2.54	0.43
1:pb:63:VAL:HG23	1:pb:99:LEU:CD1	2.42	0.43
1:pd:59:VAL:O	1:pd:59:VAL:HG13	2.18	0.43
2:pg:43:ALA:O	2:pg:77:ASN:ND2	2.50	0.43
2:ph:19:HIS:NE2	2:pj:38:ILE:HD13	2.34	0.43
2:pj:216:ARG:HB3	2:pj:219:VAL:HG12	1.99	0.43
2:pk:160:PHE:HB2	2:pk:270:LEU:HD11	2.00	0.43
2:pk:237:VAL:O	2:pk:241:LYS:HB3	2.18	0.43
2:pv:226:LEU:HD22	2:pv:270:LEU:HD22	2.00	0.43
2:pz:238:ASN:O	2:pz:241:LYS:HG2	2.18	0.43
1:pD:62:THR:HG21	1:pD:97:PRO:HB3	2.00	0.43
2:pV:98:VAL:HG12	2:pV:99:TYR:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pV:189:LYS:O	2:pV:190:PRO:C	2.61	0.43
2:pW:94:ASP:OD1	2:pW:95:ASN:N	2.51	0.43
3:qe:66:GLN:O	3:qe:67:ARG:HG2	2.18	0.43
4:qk:64:LYS:HZ1	4:ql:53:GLN:HG2	1.83	0.43
6:qq:58:LEU:HD12	6:qM:112:LEU:CD1	2.48	0.43
6:qs:112:LEU:CD1	6:qu:58:LEU:HD12	2.48	0.43
5:qz:24:ARG:O	5:qz:25:LEU:HD22	2.18	0.43
5:qz:235:ARG:HG2	5:qz:255:VAL:HG13	2.01	0.43
5:qB:240:PRO:HA	5:qD:268:GLU:OE1	2.18	0.43
5:qD:240:PRO:HA	5:qF:268:GLU:OE1	2.19	0.43
5:qD:284:PRO:CB	5:qF:227:LEU:HD21	2.47	0.43
5:qF:240:PRO:HA	5:qH:268:GLU:OE1	2.18	0.43
5:qH:235:ARG:HG2	5:qH:255:VAL:HG13	2.01	0.43
5:qJ:392:LEU:CD1	5:qL:400:TYR:HH	2.25	0.43
1:aa:98:LEU:HG	2:ak:62:GLN:CD	2.44	0.43
2:ai:24:LEU:HD11	2:ak:257:LEU:HD12	2.00	0.43
2:aj:36:THR:HG22	2:aj:175:THR:HG22	2.00	0.43
2:am:229:MET:O	2:am:285:ASN:ND2	2.52	0.43
1:an:58:PHE:CE1	2:oc:3:ILE:HD11	2.53	0.43
1:aq:62:THR:HG21	1:aq:97:PRO:HB3	2.00	0.43
2:au:150:THR:OG1	2:au:220:GLY:O	2.18	0.43
2:av:65:ILE:HD12	2:av:203:VAL:HG13	1.99	0.43
2:av:226:LEU:HD22	2:av:270:LEU:HD22	2.00	0.43
2:az:106:MET:CE	2:az:206:ALA:HB3	2.49	0.43
1:aA:63:VAL:HG12	1:aA:75:LYS:H	1.82	0.43
1:aA:67:CYS:HA	1:aA:72:CYS:HA	2.00	0.43
1:aB:60:ARG:HG2	1:kL:99:LEU:HD22	2.00	0.43
2:aI:44:SER:OG	2:aI:45:ASN:N	2.51	0.43
2:aI:193:THR:HG23	2:iW:193:THR:HG22	2.00	0.43
2:aJ:19:HIS:NE2	2:aL:38:ILE:HD13	2.34	0.43
2:aK:185:GLN:NE2	2:ht:196:THR:OG1	2.50	0.43
2:aN:276:GLU:OE2	2:aN:280:VAL:HG21	2.19	0.43
2:aN:299:ASP:O	2:aN:300:THR:OG1	2.36	0.43
1:aP:104:CYS:HA	2:cs:62:GLN:HE22	1.82	0.43
1:aR:58:PHE:CG	1:aR:101:VAL:HG21	2.54	0.43
2:aX:262:ASN:HA	2:aX:295:VAL:HG22	2.00	0.43
1:bc:58:PHE:CE1	2:iJ:3:ILE:HD11	2.53	0.43
2:bj:18:LYS:HD2	2:bj:98:VAL:HG21	2.00	0.43
2:bl:65:ILE:HD12	2:bo:203:VAL:HG13	1.99	0.43
2:bo:237:VAL:O	2:bo:241:LYS:HB3	2.18	0.43
1:bt:99:LEU:HA	2:ca:197:LYS:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bx:3:ILE:HG22	2:bx:5:THR:H	1.83	0.43
1:bI:60:ARG:HB2	1:bI:102:GLU:O	2.19	0.43
2:bQ:106:MET:CE	2:bQ:206:ALA:HB3	2.49	0.43
1:bU:62:THR:HG21	1:bU:97:PRO:HB3	2.00	0.43
2:ca:59:TRP:CE3	2:cd:79:LEU:HD13	2.54	0.43
2:cc:20:PHE:N	2:cc:20:PHE:CD1	2.87	0.43
2:ce:106:MET:CE	2:ce:206:ALA:HB3	2.49	0.43
2:cn:45:ASN:OD1	2:cn:75:ILE:HD12	2.18	0.43
1:cy:101:VAL:HG23	1:cy:101:VAL:O	2.18	0.43
2:cB:77:ASN:HD21	2:cB:179:LEU:HD11	1.84	0.43
2:cB:282:ARG:NH2	2:pg:282:ARG:HH11	1.93	0.43
2:cC:244:ASP:OD1	2:cC:245:ALA:N	2.50	0.43
2:cG:238:ASN:O	2:cG:241:LYS:HG2	2.18	0.43
1:cI:98:LEU:HG	2:cS:62:GLN:CD	2.44	0.43
1:cJ:105:THR:OG1	2:iL:60:ILE:HG12	2.18	0.43
1:cK:58:PHE:CG	1:cK:101:VAL:HG21	2.54	0.43
1:cL:57:VAL:O	1:cL:59:VAL:HG23	2.17	0.43
2:cP:219:VAL:O	2:cP:219:VAL:CG1	2.66	0.43
2:cR:60:ILE:HG12	1:po:105:THR:OG1	2.18	0.43
2:dd:44:SER:OG	2:dd:45:ASN:N	2.51	0.43
2:dd:278:VAL:O	2:dd:278:VAL:HG23	2.19	0.43
2:de:183:ILE:CG2	2:de:207:ASP:HB2	2.47	0.43
2:dr:45:ASN:OD1	2:dr:75:ILE:HD12	2.18	0.43
2:dr:219:VAL:O	2:dr:219:VAL:CG1	2.66	0.43
2:ds:226:LEU:HD22	2:ds:270:LEU:HD22	2.00	0.43
1:dA:103:ARG:NH1	2:ph:61:GLY:CA	2.70	0.43
2:dF:21:GLN:O	2:dF:22:ASP:OD1	2.37	0.43
2:dF:198:GLU:CD	1:pe:102:GLU:HA	2.44	0.43
2:dG:19:HIS:NE2	2:dI:38:ILE:HD13	2.34	0.43
2:dI:216:ARG:HB3	2:dI:219:VAL:HG12	1.99	0.43
1:dL:58:PHE:CE1	2:eX:3:ILE:HD11	2.53	0.43
1:dO:58:PHE:CG	1:dO:101:VAL:HG21	2.54	0.43
2:dS:62:GLN:OE1	1:nK:102:GLU:HG2	2.02	0.43
2:dT:173:LEU:HA	2:dT:215:SER:HB3	2.01	0.43
2:dU:59:TRP:CE3	2:dX:79:LEU:HD13	2.54	0.43
2:dU:63:ARG:HE	2:dX:205:MET:CE	2.30	0.43
1:eb:95:SER:OG	1:eb:96:ASP:N	2.52	0.43
1:eb:99:LEU:HB3	1:ft:102:GLU:CD	2.37	0.43
2:eh:193:THR:HG23	2:eu:193:THR:HG22	2.00	0.43
2:ei:24:LEU:HD11	2:ek:257:LEU:HD12	2.01	0.43
2:ei:59:TRP:CE3	2:el:79:LEU:HD13	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:es:57:VAL:HG22	1:es:104:CYS:H	1.83	0.43
2:eu:61:GLY:CA	1:gz:103:ARG:HD2	2.40	0.43
2:eu:62:GLN:OE1	1:gz:102:GLU:HG2	2.02	0.43
2:ev:205:MET:CE	2:gD:63:ARG:HD2	2.49	0.43
2:ew:24:LEU:HD11	2:ey:257:LEU:HD12	2.00	0.43
1:eF:60:ARG:HB2	1:eF:102:GLU:O	2.18	0.43
1:eG:86:SER:O	1:eG:90:LEU:N	2.51	0.43
2:eI:248:ASN:OD1	2:eO:268:THR:OG1	2.36	0.43
2:eJ:75:ILE:HG21	2:eJ:177:ARG:NH1	2.32	0.43
2:eK:197:LYS:CE	1:ic:99:LEU:HA	2.48	0.43
2:eO:106:MET:CE	2:eO:206:ALA:HB3	2.49	0.43
1:fg:99:LEU:HD22	1:ia:60:ARG:HG2	2.01	0.43
1:fj:102:GLU:HA	2:gD:198:GLU:CD	2.44	0.43
2:fk:46:THR:HG22	2:fk:74:GLN:CG	2.48	0.43
2:fk:248:ASN:OD1	2:fq:268:THR:OG1	2.36	0.43
2:fm:59:TRP:CE3	2:fp:79:LEU:HD13	2.54	0.43
2:fp:263:LEU:HD23	2:fp:296:GLN:HE21	1.83	0.43
1:fw:63:VAL:HG13	1:fw:74:ASP:HB3	1.99	0.43
2:fC:20:PHE:N	2:fC:20:PHE:CD1	2.87	0.43
2:fD:263:LEU:HD23	2:fD:296:GLN:HE21	1.83	0.43
2:fE:276:GLU:OE2	2:fE:280:VAL:HG21	2.19	0.43
2:fM:189:LYS:O	2:fM:190:PRO:C	2.61	0.43
2:fN:21:GLN:O	2:fN:22:ASP:OD1	2.37	0.43
2:fO:96:LEU:HB2	2:fO:98:VAL:HG22	1.99	0.43
1:fU:60:ARG:HG2	1:md:99:LEU:HD22	2.01	0.43
2:gb:278:VAL:HG23	2:gb:278:VAL:O	2.19	0.43
2:gf:263:LEU:HD23	2:gf:296:GLN:HE21	1.83	0.43
1:gh:63:VAL:HG12	1:gh:75:LYS:H	1.82	0.43
1:gn:103:ARG:O	2:gt:62:GLN:NE2	2.50	0.43
2:gp:43:ALA:O	2:gp:77:ASN:ND2	2.50	0.43
2:gp:192:PHE:HZ	2:gu:196:THR:HG21	1.83	0.43
1:gw:98:LEU:HG	2:gG:62:GLN:CD	2.44	0.43
1:gy:58:PHE:CG	1:gy:101:VAL:HG21	2.54	0.43
2:gD:45:ASN:OD1	2:gD:75:ILE:HD12	2.18	0.43
2:gD:173:LEU:HA	2:gD:215:SER:HB3	2.01	0.43
2:gE:96:LEU:HB2	2:gE:98:VAL:HG22	1.99	0.43
1:gK:98:LEU:HG	2:gU:62:GLN:CD	2.44	0.43
2:gR:77:ASN:HD21	2:gR:179:LEU:HD11	1.84	0.43
1:ha:62:THR:HG21	1:ha:97:PRO:HB3	2.00	0.43
1:hb:103:ARG:HD2	2:lF:61:GLY:CA	2.40	0.43
1:hl:58:PHE:CE1	2:lG:3:ILE:HD11	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hs:189:LYS:O	2:hs:190:PRO:C	2.61	0.43
2:hu:185:GLN:NE2	2:kr:196:THR:OG1	2.50	0.43
2:hx:229:MET:O	2:hx:285:ASN:ND2	2.52	0.43
1:hz:98:LEU:HG	2:hl:62:GLN:CD	2.44	0.43
2:hF:248:ASN:OD1	2:hK:268:THR:OG1	2.36	0.43
2:hG:59:TRP:CE3	2:hJ:79:LEU:HD13	2.54	0.43
1:hP:60:ARG:HB2	1:hP:102:GLU:O	2.18	0.43
2:hU:24:LEU:HD11	2:hW:257:LEU:HD12	2.00	0.43
2:hV:226:LEU:HD21	2:hV:273:LYS:HB3	1.99	0.43
2:ig:18:LYS:HD2	2:ig:98:VAL:HG21	2.00	0.43
2:il:226:LEU:HA	2:il:238:ASN:ND2	2.33	0.43
2:im:276:GLU:OE2	2:im:280:VAL:HG21	2.19	0.43
1:ip:60:ARG:NE	1:lm:99:LEU:HD22	2.12	0.43
2:iv:45:ASN:OD1	2:iv:75:ILE:HD12	2.18	0.43
2:iA:251:ALA:HB2	2:iA:257:LEU:HD21	2.01	0.43
1:iB:63:VAL:HG12	1:iB:75:LYS:H	1.83	0.43
1:iC:99:LEU:HG	2:iM:62:GLN:HE22	1.83	0.43
2:iO:229:MET:O	2:iO:285:ASN:ND2	2.52	0.43
2:iO:251:ALA:HB2	2:iO:257:LEU:HD21	2.01	0.43
1:iU:101:VAL:O	1:iU:101:VAL:HG23	2.19	0.43
2:iW:46:THR:HG22	2:iW:74:GLN:CG	2.48	0.43
2:iW:246:MET:HE2	2:iW:259:ILE:CG2	2.48	0.43
2:iX:44:SER:OG	2:iX:45:ASN:N	2.51	0.43
2:iX:77:ASN:HD21	2:iX:179:LEU:HD11	1.84	0.43
2:jk:189:LYS:O	2:jk:190:PRO:C	2.61	0.43
2:jl:177:ARG:HH11	2:jl:177:ARG:HG3	1.83	0.43
2:jl:198:GLU:CD	1:lq:102:GLU:HA	2.44	0.43
1:jt:95:SER:OG	1:jt:96:ASP:N	2.52	0.43
1:ju:99:LEU:HA	2:kc:197:LYS:CE	2.49	0.43
2:jy:246:MET:HE2	2:jy:259:ILE:CG2	2.48	0.43
2:jA:183:ILE:CG2	2:jA:207:ASP:HB2	2.47	0.43
2:jE:276:GLU:OE2	2:jE:280:VAL:HG21	2.19	0.43
1:jF:63:VAL:HG12	1:jF:75:LYS:H	1.82	0.43
2:jO:262:ASN:HA	2:jO:295:VAL:HG22	2.00	0.43
1:jU:98:LEU:HG	2:ke:62:GLN:CD	2.44	0.43
2:ka:248:ASN:OD1	2:kg:268:THR:OG1	2.36	0.43
2:kc:19:His:NE2	2:ke:38:ILE:HD13	2.34	0.43
2:ke:57:ARG:HD3	2:ke:58:GLU:N	2.32	0.43
1:kk:58:PHE:CG	1:kk:101:VAL:HG21	2.54	0.43
1:km:57:VAL:HG22	1:km:104:CYS:H	1.83	0.43
2:kq:36:THR:HG22	2:kq:175:THR:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kC:177:ARG:HH11	2:kC:177:ARG:HG3	1.83	0.43
2:kD:59:TRP:CE3	2:kG:79:LEU:HD13	2.54	0.43
2:kG:274:ALA:CB	2:kG:297:VAL:HG21	2.46	0.43
1:kJ:98:LEU:HG	2:kT:62:GLN:CD	2.44	0.43
2:kR:244:ASP:OD1	2:kR:245:ALA:N	2.50	0.43
2:kS:36:THR:HG22	2:kS:175:THR:HG22	2.00	0.43
2:kU:263:LEU:HD23	2:kU:296:GLN:HE21	1.83	0.43
2:kV:106:MET:CE	2:kV:206:ALA:HB3	2.49	0.43
2:kV:251:ALA:HB2	2:kV:257:LEU:HD21	2.01	0.43
1:lb:101:VAL:O	1:lb:101:VAL:HG23	2.18	0.43
2:lf:197:LYS:CE	1:oz:99:LEU:HA	2.49	0.43
2:lw:263:LEU:HD23	2:lw:296:GLN:HE21	1.83	0.43
2:lx:229:MET:O	2:lx:285:ASN:ND2	2.52	0.43
2:lx:251:ALA:HB2	2:lx:257:LEU:HD21	2.01	0.43
1:lD:86:SER:O	1:lD:90:LEU:N	2.51	0.43
1:lD:101:VAL:O	1:lD:101:VAL:HG23	2.18	0.43
2:lH:19:HIS:NE2	2:lJ:38:ILE:HD13	2.34	0.43
2:lH:59:TRP:CE3	2:lK:79:LEU:HD13	2.54	0.43
1:lM:59:VAL:HG12	1:lM:61:ALA:N	2.29	0.43
1:lR:59:VAL:O	1:lR:59:VAL:HG13	2.18	0.43
2:lV:179:LEU:HD22	2:lV:209:TYR:HD2	1.82	0.43
2:lW:226:LEU:HD21	2:lW:273:LYS:HB3	1.99	0.43
2:lY:160:PHE:HB2	2:lY:270:LEU:HD11	2.00	0.43
2:lY:238:ASN:O	2:lY:242:VAL:CG2	2.62	0.43
2:lY:263:LEU:HD23	2:lY:296:GLN:HE21	1.83	0.43
2:lZ:246:MET:HA	2:lZ:249:GLN:HG2	2.00	0.43
1:mb:99:LEU:HG	2:ml:62:GLN:HE22	1.83	0.43
1:mb:104:CYS:HA	2:nF:62:GLN:HE22	1.82	0.43
2:ml:216:ARG:HB3	2:ml:219:VAL:HG12	2.00	0.43
2:mn:183:ILE:HD12	2:mn:183:ILE:H	1.82	0.43
1:mr:62:THR:HG21	1:mr:97:PRO:HB3	2.00	0.43
2:mB:238:ASN:O	2:mB:241:LYS:HG2	2.18	0.43
1:mF:58:PHE:CG	1:mF:101:VAL:HG21	2.54	0.43
2:mL:19:HIS:NE2	2:mN:38:ILE:HD13	2.34	0.43
2:mP:229:MET:O	2:mP:285:ASN:ND2	2.52	0.43
2:mP:238:ASN:O	2:mP:241:LYS:HG2	2.18	0.43
2:mP:246:MET:HA	2:mP:249:GLN:HG2	2.00	0.43
1:mQ:63:VAL:HG23	1:mQ:78:GLN:H	1.84	0.43
1:mR:99:LEU:HA	2:nb:62:GLN:NE2	2.34	0.43
1:mT:58:PHE:CG	1:mT:101:VAL:HG21	2.54	0.43
2:mX:98:VAL:HG12	2:mX:99:TYR:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mY:44:SER:OG	2:mY:45:ASN:N	2.51	0.43
2:nc:200:ASP:N	2:nc:200:ASP:OD1	2.50	0.43
2:nl:193:THR:HG22	2:oe:193:THR:HG23	1.99	0.43
2:nl:246:MET:HE2	2:nl:259:ILE:CG2	2.48	0.43
1:ns:67:CYS:HA	1:ns:72:CYS:HA	2.00	0.43
2:nF:229:MET:O	2:nF:285:ASN:ND2	2.52	0.43
1:nI:95:SER:OG	1:nI:96:ASP:N	2.52	0.43
2:nN:248:ASN:OD1	2:nT:268:THR:OG1	2.36	0.43
2:nS:160:PHE:HB2	2:nS:270:LEU:HD11	2.00	0.43
2:oc:94:ASP:OD1	2:oc:95:ASN:N	2.51	0.43
1:ol:58:PHE:CG	1:ol:101:VAL:HG21	2.54	0.43
2:op:193:THR:HG22	2:pW:193:THR:HG23	1.99	0.43
2:op:248:ASN:OD1	2:ov:268:THR:OG1	2.36	0.43
2:og:278:VAL:HG23	2:og:278:VAL:O	2.19	0.43
2:ov:229:MET:O	2:ov:285:ASN:ND2	2.52	0.43
2:og:185:GLN:OE1	2:og:205:MET:HE3	2.17	0.43
2:pk:274:ALA:CB	2:pk:297:VAL:HG21	2.46	0.43
2:pl:106:MET:CE	2:pl:206:ALA:HB3	2.49	0.43
2:pu:177:ARG:HH11	2:pu:177:ARG:HG3	1.83	0.43
2:pu:219:VAL:O	2:pu:219:VAL:CG1	2.66	0.43
2:pu:278:VAL:O	2:pu:278:VAL:HG23	2.19	0.43
2:px:226:LEU:HD23	2:px:227:ALA:N	2.32	0.43
2:pH:246:MET:HE2	2:pH:259:ILE:CG2	2.48	0.43
2:pL:20:PHE:N	2:pL:20:PHE:CD1	2.87	0.43
1:pO:67:CYS:HA	1:pO:72:CYS:HA	2.00	0.43
2:pW:219:VAL:O	2:pW:219:VAL:CG1	2.66	0.43
2:pW:278:VAL:O	2:pW:278:VAL:HG23	2.19	0.43
2:pX:59:TRP:CE3	2:qa:79:LEU:HD13	2.54	0.43
2:qa:200:ASP:OD1	2:qa:200:ASP:N	2.50	0.43
3:qd:37:LEU:HD12	3:qd:42:GLN:NE2	2.33	0.43
3:qd:67:ARG:H	4:qn:194:LEU:CD1	1.93	0.43
3:qh:66:GLN:O	3:qh:67:ARG:HG2	2.18	0.43
5:qp:248:LYS:NZ	6:qs:121:VAL:CG1	2.80	0.43
5:qr:24:ARG:O	5:qr:25:LEU:HD22	2.18	0.43
5:qB:239:TYR:CZ	6:qE:123:ASN:HB3	2.52	0.43
5:qD:24:ARG:O	5:qD:25:LEU:HD22	2.18	0.43
5:qH:240:PRO:HA	5:qJ:268:GLU:OE1	2.18	0.43
5:qH:284:PRO:CB	5:qJ:227:LEU:HD21	2.47	0.43
1:as:101:VAL:O	1:as:101:VAL:HG23	2.18	0.43
2:au:189:LYS:O	2:au:190:PRO:C	2.61	0.43
2:au:246:MET:HE2	2:au:259:ILE:CG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:az:183:ILE:CG2	5:qH:178:PRO:HB2	2.31	0.43
1:aD:58:PHE:CG	1:aD:101:VAL:HG21	2.54	0.43
2:aH:3:ILE:HG22	2:aH:5:THR:H	1.83	0.43
2:aJ:197:LYS:CE	1:kL:99:LEU:HA	2.49	0.43
2:aN:106:MET:CE	2:aN:206:ALA:HB3	2.49	0.43
1:aR:57:VAL:O	1:aR:59:VAL:HG23	2.19	0.43
1:aT:57:VAL:HG22	1:aT:104:CYS:H	1.84	0.43
1:aT:87:ASP:CB	2:py:5:THR:HG22	2.49	0.43
2:aV:46:THR:HG22	2:aV:74:GLN:CG	2.48	0.43
2:aW:102:LEU:HD13	2:bk:68:MET:SD	2.59	0.43
2:aX:226:LEU:HD22	2:aX:270:LEU:HD22	2.00	0.43
2:bj:246:MET:HE2	2:bj:259:ILE:CG2	2.48	0.43
2:bl:63:ARG:HE	2:bo:205:MET:CE	2.30	0.43
2:bn:113:HIS:CE1	2:bn:117:LEU:HD11	2.54	0.43
1:bt:58:PHE:CG	1:bt:101:VAL:HG21	2.54	0.43
1:bu:60:ARG:HB2	1:bu:102:GLU:O	2.18	0.43
2:bz:226:LEU:HD22	2:bz:270:LEU:HD22	2.00	0.43
2:bB:20:PHE:N	2:bB:20:PHE:CD1	2.87	0.43
2:bC:160:PHE:HB2	2:bC:270:LEU:HD11	2.00	0.43
1:bH:58:PHE:CG	1:bH:101:VAL:HG21	2.54	0.43
2:bL:3:ILE:HG22	2:bL:5:THR:H	1.83	0.43
2:bL:98:VAL:HG12	2:bL:99:TYR:N	2.33	0.43
2:bM:19:HIS:NE2	2:bO:38:ILE:HD13	2.34	0.43
2:bP:160:PHE:HB2	2:bP:270:LEU:HD11	2.00	0.43
1:bU:58:PHE:CG	1:bU:101:VAL:HG21	2.54	0.43
1:bW:87:ASP:CB	2:hX:5:THR:HG22	2.49	0.43
2:ce:229:MET:O	2:ce:285:ASN:ND2	2.52	0.43
1:cg:99:LEU:HA	2:cq:62:GLN:NE2	2.34	0.43
1:ci:58:PHE:CG	1:ci:101:VAL:HG21	2.54	0.43
1:cj:60:ARG:HB2	1:cj:102:GLU:O	2.18	0.43
2:cn:205:MET:CE	2:pu:63:ARG:HD2	2.49	0.43
2:cs:106:MET:CE	2:cs:206:ALA:HB3	2.49	0.43
1:cy:87:ASP:CB	2:nS:5:THR:HG22	2.49	0.43
2:cB:198:GLU:CD	1:cN:102:GLU:HA	2.44	0.43
2:cD:60:ILE:HG12	1:dN:105:THR:OG1	2.18	0.43
2:cF:226:LEU:HA	2:cF:238:ASN:ND2	2.33	0.43
2:cG:251:ALA:HB2	2:cG:257:LEU:HD21	2.01	0.43
2:cQ:197:LYS:CE	1:pp:99:LEU:HA	2.48	0.43
2:cU:229:MET:O	2:cU:285:ASN:ND2	2.52	0.43
1:cV:57:VAL:HB	1:cV:59:VAL:HG23	1.99	0.43
1:cW:98:LEU:HG	2:dg:62:GLN:CD	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dh:160:PHE:HB2	2:dh:270:LEU:HD11	2.00	0.43
2:dh:226:LEU:HA	2:dh:238:ASN:ND2	2.33	0.43
2:dh:237:VAL:O	2:dh:241:LYS:HB3	2.18	0.43
2:di:106:MET:CE	2:di:206:ALA:HB3	2.49	0.43
2:di:236:GLN:HB2	2:di:240:GLU:HB3	2.00	0.43
1:dj:67:CYS:HA	1:dj:72:CYS:HA	2.00	0.43
1:dl:95:SER:OG	1:dl:96:ASP:N	2.52	0.43
2:dw:236:GLN:CB	2:dw:240:GLU:HB3	2.49	0.43
1:dy:99:LEU:HA	2:dl:62:GLN:NE2	2.34	0.43
1:dA:58:PHE:CG	1:dA:101:VAL:HG21	2.54	0.43
2:dG:226:LEU:HD22	2:dG:270:LEU:HD22	2.00	0.43
1:dL:59:VAL:HG12	1:dL:61:ALA:N	2.28	0.43
2:dX:263:LEU:HD23	2:dX:296:GLN:HE21	1.83	0.43
1:ec:99:LEU:HD22	1:nV:60:ARG:HG2	2.01	0.43
1:ef:102:GLU:HA	2:nA:198:GLU:CD	2.44	0.43
2:eg:46:THR:HG22	2:eg:74:GLN:CG	2.48	0.43
2:ej:60:ILE:HG12	1:ft:105:THR:OG1	2.18	0.43
2:ej:62:GLN:HE21	1:ft:102:GLU:HG2	1.84	0.43
1:eo:98:LEU:HG	2:ey:62:GLN:CD	2.44	0.43
1:eo:99:LEU:HG	2:ey:62:GLN:HE22	1.83	0.43
2:ey:4:ILE:H	2:pj:69:ALA:HB2	1.81	0.43
2:eJ:173:LEU:HA	2:eJ:215:SER:HB3	2.01	0.43
2:eN:226:LEU:HA	2:eN:238:ASN:ND2	2.33	0.43
2:eO:185:GLN:O	2:eO:205:MET:N	2.43	0.43
1:eS:62:THR:HG21	1:eS:97:PRO:HB3	2.00	0.43
2:eW:246:MET:HE2	2:eW:259:ILE:CG2	2.48	0.43
2:eX:44:SER:OG	2:eX:45:ASN:N	2.51	0.43
2:eZ:37:VAL:O	2:eZ:37:VAL:HG13	2.17	0.43
2:fc:106:MET:CE	2:fc:206:ALA:HB3	2.49	0.43
2:fc:276:GLU:OE2	2:fc:280:VAL:HG21	2.19	0.43
2:fm:19:HIS:NE2	2:fo:38:ILE:HD13	2.34	0.43
1:fr:67:CYS:HA	1:fr:72:CYS:HA	2.00	0.43
1:fu:58:PHE:CG	1:fu:101:VAL:HG21	2.54	0.43
1:fw:86:SER:O	1:fw:90:LEU:N	2.51	0.43
2:fz:192:PHE:HZ	2:fE:196:THR:HG21	1.83	0.43
2:fB:60:ILE:HG12	1:nW:105:THR:OG1	2.18	0.43
2:fE:236:GLN:HB2	2:fE:240:GLU:HB3	2.00	0.43
1:fH:102:GLU:HG2	2:my:62:GLN:HE21	1.84	0.43
2:fM:246:MET:HE2	2:fM:259:ILE:CG2	2.48	0.43
2:fN:198:GLU:CD	1:fZ:102:GLU:HA	2.44	0.43
1:fV:102:GLU:HG2	2:nC:62:GLN:HE21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fW:99:LEU:HD22	1:nt:60:ARG:HG2	2.01	0.43
1:fX:60:ARG:HB2	1:fX:102:GLU:O	2.19	0.43
2:ga:46:THR:HG22	2:ga:74:GLN:CG	2.48	0.43
2:gg:238:ASN:O	2:gg:241:LYS:HG2	2.18	0.43
1:gj:105:THR:OG1	2:gT:60:ILE:HG12	2.18	0.43
2:go:189:LYS:O	2:go:190:PRO:C	2.61	0.43
2:gp:68:MET:SD	2:hT:102:LEU:HD13	2.59	0.43
2:gp:219:VAL:O	2:gp:219:VAL:CG1	2.66	0.43
2:gp:278:VAL:O	2:gp:278:VAL:HG23	2.19	0.43
1:gv:63:VAL:HG23	1:gv:78:GLN:H	1.84	0.43
1:gw:99:LEU:HA	2:gG:62:GLN:NE2	2.34	0.43
2:gE:24:LEU:HD11	2:gG:257:LEU:HD12	2.00	0.43
2:gG:216:ARG:HB3	2:gG:219:VAL:HG12	2.00	0.43
2:gI:183:ILE:HD12	2:gI:183:ILE:H	1.82	0.43
1:gN:60:ARG:HB2	1:gN:102:GLU:O	2.18	0.43
1:gY:99:LEU:HA	2:hi:62:GLN:NE2	2.34	0.43
2:he:18:LYS:HD2	2:he:98:VAL:HG21	2.00	0.43
2:he:246:MET:HE2	2:he:259:ILE:CG2	2.48	0.43
2:hg:59:TRP:CE3	2:hj:79:LEU:HD13	2.54	0.43
2:hi:30:THR:HG21	2:hi:298:LEU:HD13	2.01	0.43
1:ho:57:VAL:O	1:ho:59:VAL:HG23	2.19	0.43
1:hq:102:GLU:CG	1:iQ:99:LEU:HD11	2.42	0.43
2:hs:248:ASN:OD1	2:hx:268:THR:OG1	2.36	0.43
2:ht:96:LEU:HB2	2:ht:98:VAL:HG22	1.99	0.43
2:hw:160:PHE:HB2	2:hw:270:LEU:HD11	2.00	0.43
2:hx:103:MET:CB	5:qz:34:GLN:NE2	2.79	0.43
2:hx:276:GLU:OE2	2:hx:280:VAL:HG21	2.19	0.43
1:hy:67:CYS:HA	1:hy:72:CYS:HA	2.00	0.43
1:hA:95:SER:OG	1:hA:96:ASP:N	2.52	0.43
2:hG:63:ARG:HE	2:hJ:205:MET:CE	2.30	0.43
1:hM:82:ASP:OD1	1:hM:83:GLY:N	2.51	0.43
1:hM:99:LEU:HG	2:hW:62:GLN:HE22	1.83	0.43
1:hN:95:SER:OG	1:hN:96:ASP:N	2.52	0.43
2:hT:177:ARG:HH11	2:hT:177:ARG:HG3	1.83	0.43
2:hU:59:TRP:CE3	2:hX:79:LEU:HD13	2.54	0.43
2:hX:226:LEU:HA	2:hX:238:ASN:ND2	2.33	0.43
2:hY:276:GLU:OE2	2:hY:280:VAL:HG21	2.19	0.43
1:ie:87:ASP:CB	2:nE:5:THR:HG22	2.49	0.43
2:ii:96:LEU:HB2	2:ii:98:VAL:HG22	1.99	0.43
2:ix:60:ILE:HG12	1:pQ:105:THR:OG1	2.18	0.43
2:iA:106:MET:CE	2:iA:206:ALA:HB3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iA:229:MET:O	2:iA:285:ASN:ND2	2.52	0.43
2:iA:276:GLU:OE2	2:iA:280:VAL:HG21	2.19	0.43
1:iB:58:PHE:CE1	2:jN:3:ILE:HD11	2.53	0.43
1:iD:95:SER:OG	1:iD:96:ASP:N	2.52	0.43
2:iJ:192:PHE:HZ	2:iO:196:THR:HG21	1.83	0.43
2:iM:113:HIS:CE1	2:iM:117:LEU:HD11	2.54	0.43
2:iN:160:PHE:HB2	2:iN:270:LEU:HD11	2.00	0.43
2:iO:106:MET:CE	2:iO:206:ALA:HB3	2.49	0.43
2:iO:238:ASN:O	2:iO:241:LYS:HG2	2.18	0.43
1:iS:58:PHE:CG	1:iS:101:VAL:HG21	2.54	0.43
2:iX:173:LEU:HA	2:iX:215:SER:HB3	2.01	0.43
2:iX:219:VAL:O	2:iX:219:VAL:CG1	2.66	0.43
2:jb:237:VAL:O	2:jb:241:LYS:HB3	2.18	0.43
2:jl:102:LEU:HD13	2:ls:68:MET:SD	2.59	0.43
2:jp:263:LEU:HD23	2:jp:296:GLN:HE21	1.83	0.43
1:js:60:ARG:HG2	1:mT:99:LEU:HD22	2.01	0.43
1:js:99:LEU:HG	2:jC:62:GLN:HE22	1.83	0.43
2:jz:21:GLN:O	2:jz:22:ASP:OD1	2.37	0.43
2:jz:193:THR:HG23	2:pV:193:THR:HG22	1.99	0.43
2:jA:59:TRP:CE3	2:jD:79:LEU:HD13	2.54	0.43
2:jB:185:GLN:OE1	2:jB:205:MET:HE3	2.17	0.43
2:jB:235:ASN:O	2:jB:240:GLU:HB2	2.19	0.43
2:jD:226:LEU:HA	2:jD:238:ASN:ND2	2.33	0.43
1:jH:102:GLU:CD	1:ok:99:LEU:CA	2.87	0.43
2:jM:189:LYS:O	2:jM:190:PRO:C	2.61	0.43
1:jU:99:LEU:HA	2:ke:62:GLN:NE2	2.34	0.43
1:jX:102:GLU:HG2	2:lr:62:GLN:OE1	2.02	0.43
1:jY:59:VAL:HG13	1:jY:59:VAL:O	2.18	0.43
2:kb:44:SER:OG	2:kb:45:ASN:N	2.51	0.43
2:kf:160:PHE:HB2	2:kf:270:LEU:HD11	2.00	0.43
2:kg:246:MET:HA	2:kg:249:GLN:HG2	2.00	0.43
2:kg:276:GLU:OE2	2:kg:280:VAL:HG21	2.19	0.43
1:kh:58:PHE:CE1	2:ls:3:ILE:HD11	2.53	0.43
1:ki:82:ASP:OD1	1:ki:83:GLY:N	2.51	0.43
1:kl:60:ARG:HB2	1:kl:102:GLU:O	2.19	0.43
2:ko:246:MET:HE2	2:ko:259:ILE:CG2	2.48	0.43
2:kp:59:TRP:CE3	2:ks:79:LEU:HD13	2.54	0.43
2:ks:263:LEU:HD23	2:ks:296:GLN:HE21	1.84	0.43
2:ks:274:ALA:CB	2:ks:297:VAL:HG21	2.46	0.43
2:kt:251:ALA:HB2	2:kt:257:LEU:HD21	2.01	0.43
1:kv:60:ARG:HG2	1:lP:99:LEU:HD22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:kv:99:LEU:HA	2:kF:62:GLN:NE2	2.34	0.43
1:kx:62:THR:HG21	1:kx:97:PRO:HB3	2.00	0.43
1:kx:63:VAL:HG23	1:kx:99:LEU:CD1	2.42	0.43
2:kC:94:ASP:OD1	2:kC:95:ASN:N	2.51	0.43
2:kD:197:LYS:CE	1:lP:99:LEU:HA	2.49	0.43
1:kK:95:SER:OG	1:kK:96:ASP:N	2.52	0.43
1:kL:103:ARG:NH1	2:mZ:61:GLY:CA	2.70	0.43
1:kM:57:VAL:O	1:kM:59:VAL:HG23	2.17	0.43
2:kP:46:THR:HG22	2:kP:74:GLN:CG	2.48	0.43
2:kQ:173:LEU:HA	2:kQ:215:SER:HB3	2.01	0.43
2:kQ:192:PHE:HZ	2:kV:196:THR:HG21	1.83	0.43
2:kR:19:HIS:NE2	2:kT:38:ILE:HD13	2.34	0.43
1:kX:99:LEU:HA	2:lh:62:GLN:NE2	2.34	0.43
2:ld:246:MET:HE2	2:ld:259:ILE:CG2	2.48	0.43
2:le:177:ARG:HH11	2:le:177:ARG:HG3	1.83	0.43
2:lf:226:LEU:HD22	2:lf:270:LEU:HD22	2.00	0.43
2:lg:185:GLN:OE1	2:lg:205:MET:HE3	2.17	0.43
2:lg:235:ASN:O	2:lg:240:GLU:HB2	2.19	0.43
2:li:226:LEU:HA	2:li:238:ASN:ND2	2.33	0.43
2:lj:238:ASN:O	2:lj:241:LYS:HG2	2.18	0.43
1:lm:102:GLU:HG2	2:pY:62:GLN:HE21	1.84	0.43
1:ln:58:PHE:CG	1:ln:101:VAL:HG21	2.54	0.43
1:ln:99:LEU:HD22	1:pP:60:ARG:HG2	2.01	0.43
1:lp:86:SER:O	1:lp:90:LEU:N	2.50	0.43
1:lz:98:LEU:HG	2:lJ:62:GLN:CD	2.44	0.43
2:lH:24:LEU:HD11	2:lJ:257:LEU:HD12	2.00	0.43
2:lH:65:ILE:HD12	2:lK:203:VAL:HG13	1.99	0.43
2:lZ:229:MET:O	2:lZ:285:ASN:ND2	2.52	0.43
2:lZ:238:ASN:O	2:lZ:241:LYS:HG2	2.18	0.43
2:mh:246:MET:HE2	2:mh:259:ILE:CG2	2.48	0.43
2:mi:21:GLN:O	2:mi:22:ASP:OD1	2.37	0.43
2:mi:94:ASP:OD1	2:mi:95:ASN:N	2.51	0.43
2:mn:276:GLU:OE2	2:mn:280:VAL:HG21	2.19	0.43
1:mp:98:LEU:HG	2:mz:62:GLN:CD	2.44	0.43
1:mr:58:PHE:CG	1:mr:101:VAL:HG21	2.54	0.43
2:mv:46:THR:HG22	2:mv:74:GLN:CG	2.48	0.43
2:mw:177:ARG:HH11	2:mw:177:ARG:HG3	1.83	0.43
2:my:226:LEU:HD21	2:my:273:LYS:HB3	1.99	0.43
2:mA:226:LEU:HA	2:mA:238:ASN:ND2	2.33	0.43
1:mE:102:GLU:CD	1:ng:99:LEU:CA	2.87	0.43
1:mG:60:ARG:HB2	1:mG:102:GLU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mJ:248:ASN:OD1	2:mP:268:THR:OG1	2.36	0.43
2:mK:219:VAL:O	2:mK:219:VAL:CG1	2.66	0.43
2:mP:251:ALA:HB2	2:mP:257:LEU:HD21	2.01	0.43
1:mV:101:VAL:O	1:mV:101:VAL:HG23	2.18	0.43
2:mZ:183:ILE:CG2	2:mZ:207:ASP:HB2	2.47	0.43
1:nf:98:LEU:HG	2:np:62:GLN:CD	2.44	0.43
1:nh:58:PHE:CG	1:nh:101:VAL:HG21	2.54	0.43
2:nl:189:LYS:O	2:nl:190:PRO:C	2.61	0.43
1:nv:58:PHE:CG	1:nv:101:VAL:HG21	2.54	0.43
2:nC:36:THR:HG22	2:nC:175:THR:HG22	2.00	0.43
1:nG:57:VAL:HB	1:nG:59:VAL:HG23	1.99	0.43
1:nL:101:VAL:O	1:nL:101:VAL:HG23	2.19	0.43
2:nO:205:MET:CE	2:oc:63:ARG:HD2	2.49	0.43
2:nS:226:LEU:HA	2:nS:238:ASN:ND2	2.33	0.43
1:nV:99:LEU:HA	2:of:62:GLN:NE2	2.34	0.43
1:nX:58:PHE:CG	1:nX:101:VAL:HG21	2.54	0.43
2:ob:248:ASN:OD1	2:oh:268:THR:OG1	2.36	0.43
2:od:59:TRP:CE3	2:og:79:LEU:HD13	2.54	0.43
1:om:60:ARG:HB2	1:om:102:GLU:O	2.18	0.43
1:oo:102:GLU:HA	2:pW:198:GLU:CD	2.44	0.43
2:ol:274:ALA:CB	2:ol:297:VAL:HG21	2.46	0.43
2:oJ:183:ILE:HD12	2:oJ:183:ILE:H	1.82	0.43
2:oJ:276:GLU:OE2	2:oJ:280:VAL:HG21	2.19	0.43
1:oN:58:PHE:CG	1:oN:101:VAL:HG21	2.54	0.43
2:oS:192:PHE:HZ	2:oX:196:THR:HG21	1.83	0.43
1:oZ:99:LEU:HA	2:pj:62:GLN:NE2	2.34	0.43
2:pf:3:ILE:HG22	2:pf:5:THR:H	1.83	0.43
2:pf:18:LYS:HD2	2:pf:98:VAL:HG21	2.00	0.43
2:ph:63:ARG:HE	2:pk:205:MET:CE	2.30	0.43
1:po:95:SER:OG	1:po:96:ASP:N	2.52	0.43
1:pp:58:PHE:CG	1:pp:101:VAL:HG21	2.54	0.43
2:pu:94:ASP:OD1	2:pu:95:ASN:N	2.51	0.43
2:pu:198:GLU:CD	1:pG:102:GLU:HA	2.44	0.43
1:pB:99:LEU:HG	2:pL:62:GLN:HE22	1.83	0.43
2:pH:18:LYS:HD2	2:pH:98:VAL:HG21	2.00	0.43
2:pM:89:THR:N	2:pM:200:ASP:OD2	2.36	0.43
1:pS:96:ASP:OD1	2:qa:64:VAL:HG13	2.19	0.43
2:pX:96:LEU:HB2	2:pX:98:VAL:HG22	1.99	0.43
2:pY:36:THR:HG22	2:pY:175:THR:HG22	2.00	0.43
2:pZ:216:ARG:HB3	2:pZ:219:VAL:HG12	2.00	0.43
2:qa:160:PHE:HB2	2:qa:270:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:qb:238:ASN:O	2:qb:241:LYS:HG2	2.18	0.43
2:qb:276:GLU:OE2	2:qb:280:VAL:HG21	2.19	0.43
4:qm:46:HIS:O	4:qm:57:VAL:HG12	2.18	0.43
5:qt:399:VAL:O	5:qt:403:LEU:HD23	2.18	0.43
6:qu:133:ASP:OD1	6:qu:134:TRP:N	2.45	0.43
5:qv:399:VAL:O	5:qv:403:LEU:HD23	2.18	0.43
5:qx:235:ARG:HG2	5:qx:255:VAL:HG13	2.01	0.43
5:qB:42:PRO:CD	6:qG:133:ASP:OD1	2.59	0.43
5:qD:380:MET:HE3	5:qD:380:MET:HB3	1.91	0.43
1:ae:57:VAL:HG22	1:ae:104:CYS:H	1.84	0.43
2:ah:198:GLU:CD	1:oQ:102:GLU:HA	2.44	0.43
2:ah:205:MET:CE	2:oS:63:ARG:NE	2.74	0.43
2:al:226:LEU:HA	2:al:238:ASN:ND2	2.33	0.43
2:am:62:GLN:HE22	1:mD:104:CYS:HA	1.82	0.43
1:an:63:VAL:HG23	1:an:78:GLN:H	1.84	0.43
2:az:62:GLN:HE22	1:dk:104:CYS:HA	1.82	0.43
1:aD:99:LEU:HA	2:ht:197:LYS:CE	2.49	0.43
1:aF:101:VAL:O	1:aF:101:VAL:HG23	2.19	0.43
2:aI:21:GLN:O	2:aI:22:ASP:OD1	2.37	0.43
2:aI:68:MET:SD	2:kb:102:LEU:HD13	2.59	0.43
2:aI:198:GLU:CD	1:iV:102:GLU:HA	2.44	0.43
2:aK:36:THR:HG22	2:aK:175:THR:HG22	2.00	0.43
1:aP:60:ARG:HG2	1:ci:99:LEU:HD22	2.01	0.43
1:aR:99:LEU:HD22	1:je:60:ARG:HG2	2.01	0.43
1:aS:96:ASP:OD1	2:ba:64:VAL:HG13	2.19	0.43
2:aY:60:ILE:HG12	1:ch:105:THR:OG1	2.18	0.43
2:aY:235:ASN:O	2:aY:240:GLU:HB2	2.19	0.43
2:bb:183:ILE:HD12	2:bb:183:ILE:H	1.83	0.43
2:bb:246:MET:HA	2:bb:249:GLN:HG2	2.00	0.43
1:bd:99:LEU:HA	2:bn:62:GLN:NE2	2.34	0.43
1:bf:62:THR:HG21	1:bf:97:PRO:HB3	2.00	0.43
2:bk:77:ASN:HD21	2:bk:179:LEU:HD11	1.84	0.43
2:bl:24:LEU:HD11	2:bn:257:LEU:HD12	2.00	0.43
2:bo:226:LEU:HA	2:bo:238:ASN:ND2	2.33	0.43
2:bo:238:ASN:O	2:bo:242:VAL:CG2	2.62	0.43
1:bv:59:VAL:O	1:bv:59:VAL:HG13	2.18	0.43
2:by:198:GLU:CD	1:hR:102:GLU:HA	2.44	0.43
2:bL:46:THR:HG22	2:bL:74:GLN:CG	2.48	0.43
2:bM:183:ILE:CG2	2:bM:207:ASP:HB2	2.47	0.43
2:bP:274:ALA:CB	2:bP:297:VAL:HG21	2.46	0.43
1:bR:67:CYS:HA	1:bR:72:CYS:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bT:105:THR:OG1	2:eZ:60:ILE:HG12	2.18	0.43
2:bZ:205:MET:CE	2:iJ:63:ARG:HD2	2.49	0.43
2:bZ:278:VAL:O	2:bZ:278:VAL:HG23	2.19	0.43
2:cb:185:GLN:OE1	2:cb:205:MET:HE3	2.17	0.43
1:cf:63:VAL:HG12	1:cf:75:LYS:H	1.82	0.43
1:ck:87:ASP:CB	2:lw:5:THR:HG22	2.49	0.43
2:cn:278:VAL:O	2:cn:278:VAL:HG23	2.19	0.43
2:cs:183:ILE:HD12	2:cs:183:ILE:H	1.83	0.43
2:cs:251:ALA:HB2	2:cs:257:LEU:HD21	2.01	0.43
1:cu:82:ASP:OD1	1:cu:83:GLY:N	2.51	0.43
1:cx:57:VAL:O	1:cx:59:VAL:HG23	2.17	0.43
2:cA:93:ASP:OD2	2:pl:209:TYR:OH	2.22	0.43
2:cD:235:ASN:O	2:cD:240:GLU:HB2	2.19	0.43
2:cG:236:GLN:HB2	2:cG:240:GLU:HB3	2.00	0.43
2:cU:215:SER:OG	2:cU:216:ARG:N	2.52	0.43
2:dc:18:LYS:HD2	2:dc:98:VAL:HG21	2.00	0.43
2:dd:141:HIS:HB3	2:dd:143:VAL:HG23	2.01	0.43
2:dd:177:ARG:HH11	2:dd:177:ARG:HG3	1.83	0.43
2:df:235:ASN:O	2:df:240:GLU:HB2	2.19	0.43
1:dk:98:LEU:HG	2:du:62:GLN:CD	2.44	0.43
1:dm:57:VAL:O	1:dm:59:VAL:HG23	2.19	0.43
2:dq:18:LYS:HD2	2:dq:98:VAL:HG21	2.00	0.43
2:dW:106:MET:CE	2:dW:206:ALA:HB3	2.49	0.43
1:dB:96:ASP:OD1	2:dJ:64:VAL:HG13	2.19	0.43
2:dJ:160:PHE:HB2	2:dJ:270:LEU:HD11	2.00	0.43
1:dM:99:LEU:HA	2:dW:62:GLN:NE2	2.34	0.43
1:dO:57:VAL:O	1:dO:59:VAL:HG23	2.19	0.43
1:dQ:59:VAL:O	1:dQ:59:VAL:HG13	2.18	0.43
1:dQ:87:ASP:CB	2:jR:5:THR:HG22	2.49	0.43
2:dS:193:THR:HG22	2:oS:193:THR:HG23	2.00	0.43
1:ea:60:ARG:HG2	1:fu:99:LEU:HD22	2.01	0.43
1:eb:99:LEU:CA	1:ft:102:GLU:CD	2.87	0.43
1:ec:99:LEU:HA	2:od:197:LYS:CE	2.49	0.43
2:eh:21:GLN:O	2:eh:22:ASP:OD1	2.37	0.43
2:eh:77:ASN:HD21	2:eh:179:LEU:HD11	1.84	0.43
2:eh:205:MET:CE	2:ev:63:ARG:HD2	2.49	0.43
2:em:236:GLN:CB	2:em:240:GLU:HB3	2.49	0.43
2:eu:9:ILE:HD12	2:eu:12:LEU:HG	1.99	0.43
2:ev:3:ILE:HD11	1:gJ:58:PHE:CE1	2.53	0.43
2:ev:77:ASN:HD21	2:ev:179:LEU:HD11	1.84	0.43
2:eA:106:MET:CE	2:eA:206:ALA:HB3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eA:236:GLN:HB2	2:eA:240:GLU:HB3	2.00	0.43
2:eA:251:ALA:HB2	2:eA:257:LEU:HD21	2.01	0.43
1:eC:99:LEU:HG	2:eM:62:GLN:HE22	1.83	0.43
1:eC:99:LEU:HA	2:eM:62:GLN:NE2	2.34	0.43
1:eG:87:ASP:CB	2:gV:5:THR:HG22	2.49	0.43
2:eJ:77:ASN:HD21	2:eJ:179:LEU:HD11	1.84	0.43
2:eY:19:HIS:NE2	2:fa:38:ILE:HD13	2.34	0.43
2:eZ:235:ASN:O	2:eZ:240:GLU:HB2	2.19	0.43
1:fe:98:LEU:HG	2:fo:62:GLN:CD	2.44	0.43
2:fk:18:LYS:HD2	2:fk:98:VAL:HG21	2.00	0.43
2:fl:44:SER:OG	2:fl:45:ASN:N	2.51	0.43
2:fl:77:ASN:HD21	2:fl:179:LEU:HD11	1.84	0.43
2:fl:193:THR:HG23	2:nz:193:THR:HG22	1.99	0.43
2:fl:278:VAL:O	2:fl:278:VAL:HG23	2.19	0.43
2:fm:24:LEU:HD11	2:fo:257:LEU:HD12	2.00	0.43
2:fo:30:THR:HG21	2:fo:298:LEU:HD13	2.01	0.43
2:fp:226:LEU:HA	2:fp:238:ASN:ND2	2.33	0.43
2:fq:62:GLN:HE22	1:ia:104:CYS:HA	1.82	0.43
2:fy:189:LYS:O	2:fy:190:PRO:C	2.61	0.43
2:fz:219:VAL:O	2:fz:219:VAL:CG1	2.66	0.43
2:fA:19:HIS:NE2	2:fC:38:ILE:HD13	2.34	0.43
2:fB:185:GLN:OE1	2:fB:205:MET:HE3	2.17	0.43
1:fH:105:THR:OG1	2:my:60:ILE:HG12	2.18	0.43
1:fl:99:LEU:HD22	1:mp:60:ARG:HG2	2.01	0.43
1:fK:101:VAL:O	1:fK:101:VAL:HG23	2.18	0.43
2:fM:3:ILE:HG22	2:fM:5:THR:H	1.83	0.43
2:fN:3:ILE:HD11	1:gh:58:PHE:CE1	2.53	0.43
2:fN:63:ARG:HD2	2:IU:205:MET:CE	2.49	0.43
2:fO:19:HIS:NE2	2:fQ:38:ILE:HD13	2.34	0.43
2:fO:53:PHE:O	2:fO:255:ARG:NH2	2.43	0.43
2:fP:235:ASN:O	2:fP:240:GLU:HB2	2.19	0.43
1:fT:58:PHE:CE1	2:IU:3:ILE:HD11	2.53	0.43
2:gb:21:GLN:O	2:gb:22:ASP:OD1	2.37	0.43
2:gb:173:LEU:HA	2:gb:215:SER:HB3	2.01	0.43
1:gh:67:CYS:HA	1:gh:72:CYS:HA	2.00	0.43
1:gk:58:PHE:CG	1:gk:101:VAL:HG21	2.54	0.43
2:go:248:ASN:OD1	2:gu:268:THR:OG1	2.36	0.43
2:gu:106:MET:CE	2:gu:206:ALA:HB3	2.49	0.43
1:gw:99:LEU:HG	2:gG:62:GLN:HE22	1.83	0.43
1:gZ:96:ASP:OD1	2:gH:64:VAL:HG13	2.19	0.43
1:gA:59:VAL:HG13	1:gA:59:VAL:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gA:101:VAL:HG23	1:gA:101:VAL:O	2.18	0.43
2:gD:278:VAL:O	2:gD:278:VAL:HG23	2.19	0.43
2:gR:3:ILE:HD11	1:ma:58:PHE:CE1	2.53	0.43
2:gR:278:VAL:O	2:gR:278:VAL:HG23	2.19	0.43
2:gS:59:TRP:CE3	2:gV:79:LEU:HD13	2.54	0.43
2:gU:20:PHE:N	2:gU:20:PHE:CD1	2.87	0.43
2:gU:30:THR:HG21	2:gU:298:LEU:HD13	2.01	0.43
1:gY:82:ASP:OD1	1:gY:83:GLY:N	2.51	0.43
1:gY:99:LEU:HG	2:hi:62:GLN:HE22	1.83	0.43
2:hf:21:GLN:O	2:hf:22:ASP:OD1	2.37	0.43
2:hj:5:THR:HG22	1:oB:87:ASP:CB	2.49	0.43
2:hu:36:THR:HG22	2:hu:175:THR:HG22	2.00	0.43
2:hv:113:HIS:CE1	2:hv:117:LEU:HD11	2.54	0.43
2:hw:5:THR:HG22	1:iU:87:ASP:CB	2.49	0.43
2:hw:200:ASP:N	2:hw:200:ASP:OD1	2.50	0.43
2:hx:95:ASN:CA	5:qz:47:ARG:HE	2.31	0.43
2:hx:106:MET:CE	2:hx:206:ALA:HB3	2.49	0.43
1:hA:99:LEU:HD23	1:kw:102:GLU:HB3	1.96	0.43
1:hA:102:GLU:CD	1:lO:99:LEU:CA	2.87	0.43
1:hA:102:GLU:HG2	2:IW:62:GLN:HE21	1.84	0.43
2:hI:216:ARG:HB3	2:hI:219:VAL:HG12	2.00	0.43
2:hJ:237:VAL:O	2:hJ:241:LYS:HB3	2.18	0.43
1:hM:99:LEU:HA	2:hW:62:GLN:NE2	2.34	0.43
1:hQ:57:VAL:HG22	1:hQ:104:CYS:H	1.83	0.43
2:hT:45:ASN:OD1	2:hT:75:ILE:HD12	2.18	0.43
2:hT:77:ASN:HD21	2:hT:179:LEU:HD11	1.84	0.43
2:hW:30:THR:HG21	2:hW:298:LEU:HD13	2.01	0.43
1:id:60:ARG:HB2	1:id:102:GLU:O	2.18	0.43
2:ih:44:SER:OG	2:ih:45:ASN:N	2.51	0.43
2:im:106:MET:CE	2:im:206:ALA:HB3	2.49	0.43
2:iv:44:SER:OG	2:iv:45:ASN:N	2.51	0.43
2:iz:263:LEU:HD23	2:iz:296:GLN:HE21	1.84	0.43
2:iA:238:ASN:O	2:iA:241:LYS:HG2	2.18	0.43
1:iC:99:LEU:HA	2:iM:62:GLN:NE2	2.34	0.43
1:iS:62:THR:HG21	1:iS:97:PRO:HB3	2.00	0.43
2:iY:197:LYS:CE	1:kk:99:LEU:HA	2.48	0.43
2:iY:262:ASN:HA	2:iY:295:VAL:HG22	1.99	0.43
2:iZ:235:ASN:O	2:iZ:240:GLU:HB2	2.19	0.43
2:jc:236:GLN:CB	2:jc:240:GLU:HB3	2.49	0.43
2:jc:246:MET:HA	2:jc:249:GLN:HG2	2.00	0.43
1:je:98:LEU:HG	2:jo:62:GLN:CD	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jf:95:SER:OG	1:jf:96:ASP:N	2.52	0.43
1:jg:58:PHE:CG	1:jg:101:VAL:HG21	2.54	0.43
2:jn:36:THR:HG22	2:jn:175:THR:HG22	2.00	0.43
2:jn:226:LEU:HD21	2:jn:273:LYS:HB3	1.99	0.43
2:jp:237:VAL:O	2:jp:241:LYS:HB3	2.18	0.43
2:jq:183:ILE:HD12	2:jq:183:ILE:H	1.82	0.43
2:jq:229:MET:O	2:jq:285:ASN:ND2	2.52	0.43
1:jt:102:GLU:HG2	2:kd:62:GLN:HE21	1.84	0.43
2:jy:18:LYS:HD2	2:jy:98:VAL:HG21	2.00	0.43
2:jz:102:LEU:HD13	2:pW:68:MET:SD	2.59	0.43
2:jz:198:GLU:CD	1:pU:102:GLU:HA	2.44	0.43
2:jB:37:VAL:HG13	2:jB:37:VAL:O	2.17	0.43
1:jH:95:SER:OG	1:jH:96:ASP:N	2.52	0.43
1:jH:102:GLU:CD	1:ok:99:LEU:HB3	2.37	0.43
2:jN:68:MET:SD	2:pI:102:LEU:HD13	2.59	0.43
2:jS:236:GLN:CB	2:jS:240:GLU:HB3	2.49	0.43
1:jT:63:VAL:HG23	1:jT:78:GLN:H	1.84	0.43
1:jW:62:THR:HG21	1:jW:97:PRO:HB3	2.00	0.43
1:jX:60:ARG:HB2	1:jX:102:GLU:O	2.18	0.43
1:jY:100:LYS:CE	1:pP:100:LYS:CB	2.92	0.43
2:kg:236:GLN:CB	2:kg:240:GLU:HB3	2.49	0.43
1:ki:99:LEU:HA	2:kr:62:GLN:NE2	2.34	0.43
2:kp:24:LEU:HD11	2:kr:257:LEU:HD12	2.01	0.43
1:kv:98:LEU:HG	2:kF:62:GLN:CD	2.44	0.43
1:ky:60:ARG:HB2	1:ky:102:GLU:O	2.18	0.43
2:kC:3:ILE:HD11	1:kW:58:PHE:CE1	2.53	0.43
2:kC:21:GLN:O	2:kC:22:ASP:OD1	2.37	0.43
2:kC:278:VAL:O	2:kC:278:VAL:HG23	2.19	0.43
2:kE:62:GLN:HE21	1:lO:102:GLU:HG2	1.84	0.43
2:kG:226:LEU:HA	2:kG:238:ASN:ND2	2.33	0.43
2:kP:9:ILE:HD12	2:kP:12:LEU:HG	1.99	0.43
2:kQ:177:ARG:HH11	2:kQ:177:ARG:HG3	1.83	0.43
2:kU:226:LEU:HA	2:kU:238:ASN:ND2	2.33	0.43
2:kV:229:MET:O	2:kV:285:ASN:ND2	2.52	0.43
1:kY:102:GLU:HG2	2:lI:62:GLN:HE21	1.84	0.43
1:kZ:58:PHE:CG	1:kZ:101:VAL:HG21	2.54	0.43
1:kZ:99:LEU:HA	2:lH:197:LYS:CE	2.49	0.43
1:la:103:ARG:HD2	2:mJ:61:GLY:CA	2.40	0.43
2:ld:189:LYS:O	2:ld:190:PRO:C	2.61	0.43
2:le:21:GLN:O	2:le:22:ASP:OD1	2.37	0.43
2:li:237:VAL:O	2:li:241:LYS:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lk:57:VAL:HB	1:lk:59:VAL:HG23	1.99	0.43
1:lp:63:VAL:HG13	1:lp:74:ASP:HB3	1.99	0.43
2:lr:46:THR:HG22	2:lr:74:GLN:CG	2.48	0.43
2:lt:24:LEU:HD11	2:lv:257:LEU:HD12	2.01	0.43
2:lu:36:THR:HG22	2:lu:175:THR:HG22	2.00	0.43
2:lu:235:ASN:O	2:lu:240:GLU:HB2	2.19	0.43
2:lv:30:THR:HG21	2:lv:298:LEU:HD13	2.01	0.43
1:lA:102:GLU:HG2	2:oG:62:GLN:HE21	1.84	0.43
1:lC:96:ASP:OD1	2:lK:64:VAL:HG13	2.19	0.43
2:lF:189:LYS:O	2:lF:190:PRO:C	2.61	0.43
2:lG:219:VAL:O	2:lG:219:VAL:CG1	2.66	0.43
2:lK:160:PHE:HB2	2:lK:270:LEU:HD11	2.00	0.43
2:lK:263:LEU:HD23	2:lK:296:GLN:HE21	1.83	0.43
2:lL:107:GLY:HA3	2:lL:184:TYR:OH	2.19	0.43
2:lL:276:GLU:OE2	2:lL:280:VAL:HG21	2.19	0.43
1:lN:99:LEU:HA	2:lX:62:GLN:NE2	2.34	0.43
2:lU:177:ARG:HH11	2:lU:177:ARG:HG3	1.83	0.43
2:lV:59:TRP:CE3	2:lY:79:LEU:HD13	2.54	0.43
2:lX:30:THR:HG21	2:lX:298:LEU:HD13	2.01	0.43
2:lZ:276:GLU:OE2	2:lZ:280:VAL:HG21	2.19	0.43
1:ma:63:VAL:HG23	1:ma:78:GLN:H	1.84	0.43
1:mf:86:SER:O	1:mf:90:LEU:N	2.51	0.43
2:mi:102:LEU:HD13	2:mw:68:MET:SD	2.59	0.43
2:mi:192:PHE:HZ	2:mn:196:THR:HG21	1.83	0.43
2:mk:62:GLN:HE21	1:nu:102:GLU:HG2	1.84	0.43
2:mn:106:MET:CE	2:mn:206:ALA:HB3	2.49	0.43
1:mC:102:GLU:CG	1:oC:99:LEU:HD23	2.18	0.43
1:mD:98:LEU:HG	2:mN:62:GLN:CD	2.44	0.43
1:mI:102:GLU:HA	2:oq:198:GLU:CD	2.44	0.43
2:mK:77:ASN:HD21	2:mK:179:LEU:HD11	1.84	0.43
2:mL:226:LEU:HD22	2:mL:270:LEU:HD22	2.00	0.43
1:mS:95:SER:OG	1:mS:96:ASP:N	2.52	0.43
1:mV:57:VAL:HG22	1:mV:104:CYS:H	1.83	0.43
2:mY:141:HIS:HB3	2:mY:143:VAL:HG23	2.01	0.43
2:nd:276:GLU:OE2	2:nd:280:VAL:HG21	2.19	0.43
1:nf:99:LEU:HA	2:np:62:GLN:NE2	2.34	0.43
1:nh:57:VAL:O	1:nh:59:VAL:HG23	2.19	0.43
1:nj:86:SER:O	1:nj:90:LEU:N	2.51	0.43
2:nm:77:ASN:HD21	2:nm:179:LEU:HD11	1.84	0.43
2:nm:173:LEU:HA	2:nm:215:SER:HB3	2.01	0.43
2:nq:238:ASN:O	2:nq:242:VAL:CG2	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:nt:99:LEU:HA	2:nD:62:GLN:NE2	2.34	0.43
1:nx:59:VAL:O	1:nx:59:VAL:HG13	2.18	0.43
1:nx:63:VAL:HG13	1:nx:74:ASP:HB3	1.99	0.43
2:nz:189:LYS:O	2:nz:190:PRO:C	2.61	0.43
2:nz:248:ASN:OD1	2:nF:268:THR:OG1	2.36	0.43
2:nA:192:PHE:HZ	2:nF:196:THR:HG21	1.83	0.43
2:nB:59:TRP:CE3	2:nE:79:LEU:HD13	2.54	0.43
2:nB:262:ASN:HA	2:nB:295:VAL:HG22	1.99	0.43
2:nD:113:HIS:CE1	2:nD:117:LEU:HD11	2.54	0.43
2:nE:200:ASP:N	2:nE:200:ASP:OD1	2.50	0.43
2:nF:238:ASN:O	2:nF:241:LYS:HG2	2.18	0.43
1:nL:57:VAL:HG22	1:nL:104:CYS:H	1.84	0.43
2:nN:246:MET:HE2	2:nN:259:ILE:CG2	2.48	0.43
2:nO:45:ASN:OD1	2:nO:75:ILE:HD12	2.18	0.43
1:nX:62:THR:HG21	1:nX:97:PRO:HB3	2.00	0.43
2:od:96:LEU:HB2	2:od:98:VAL:HG22	1.99	0.43
2:od:262:ASN:HA	2:od:295:VAL:HG22	2.00	0.43
2:op:246:MET:HE2	2:op:259:ILE:CG2	2.48	0.43
2:oq:77:ASN:HD21	2:oq:179:LEU:HD11	1.84	0.43
2:os:235:ASN:O	2:os:240:GLU:HB2	2.19	0.43
2:ou:226:LEU:HA	2:ou:238:ASN:ND2	2.33	0.43
2:ov:62:GLN:HE22	1:oL:104:CYS:HA	1.82	0.43
1:ow:58:PHE:CE1	2:pW:3:ILE:HD11	2.53	0.43
1:ox:99:LEU:HG	2:oH:62:GLN:HE22	1.83	0.43
2:oR:46:THR:HG22	2:oR:74:GLN:CG	2.48	0.43
2:oS:219:VAL:O	2:oS:219:VAL:CG1	2.66	0.43
2:oV:30:THR:HG21	2:oV:298:LEU:HD13	2.01	0.43
1:pa:95:SER:OG	1:pa:96:ASP:N	2.52	0.43
1:pd:57:VAL:HG22	1:pd:104:CYS:H	1.84	0.43
1:pd:101:VAL:O	1:pd:101:VAL:HG23	2.18	0.43
2:pl:276:GLU:OE2	2:pl:280:VAL:HG21	2.19	0.43
1:pq:96:ASP:OD1	2:py:64:VAL:HG13	2.19	0.43
1:pr:57:VAL:HG22	1:pr:104:CYS:H	1.83	0.43
2:pz:229:MET:O	2:pz:285:ASN:ND2	2.52	0.43
1:pB:99:LEU:HA	2:pL:62:GLN:NE2	2.34	0.43
2:pJ:24:LEU:HD11	2:pL:257:LEU:HD12	2.01	0.43
2:pL:216:ARG:HB3	2:pL:219:VAL:HG12	2.00	0.43
1:pT:57:VAL:HG22	1:pT:104:CYS:H	1.84	0.43
2:pW:77:ASN:HD21	2:pW:179:LEU:HD11	1.84	0.43
2:pY:235:ASN:O	2:pY:240:GLU:HB2	2.19	0.43
3:qd:60:ALA:C	4:qn:33:SER:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qg:118:VAL:HG11	3:qh:127:GLN:HE22	1.83	0.43
5:qp:268:GLU:OE1	5:qL:240:PRO:HA	2.18	0.43
5:qF:235:ARG:HG2	5:qF:255:VAL:HG13	2.01	0.43
5:qJ:240:PRO:HA	5:qL:268:GLU:OE1	2.19	0.43
1:aa:99:LEU:HA	2:ak:62:GLN:NE2	2.34	0.43
1:ab:102:GLU:HG2	2:mM:62:GLN:HE21	1.84	0.43
1:ad:57:VAL:O	1:ad:59:VAL:HG23	2.17	0.43
1:ae:101:VAL:O	1:ae:101:VAL:HG23	2.19	0.43
1:af:102:GLU:HA	2:oc:198:GLU:CD	2.44	0.43
2:ai:226:LEU:HD22	2:ai:270:LEU:HD22	2.00	0.43
2:aj:235:ASN:O	2:aj:240:GLU:HB2	2.19	0.43
2:al:160:PHE:HB2	2:al:270:LEU:HD11	2.00	0.43
2:am:215:SER:OG	2:am:216:ARG:N	2.52	0.43
1:an:67:CYS:HA	1:an:72:CYS:HA	2.00	0.43
1:aq:57:VAL:O	1:aq:59:VAL:HG23	2.19	0.43
1:ar:60:ARG:HB2	1:ar:102:GLU:O	2.18	0.43
2:av:59:TRP:CE3	2:ay:79:LEU:HD13	2.54	0.43
2:ay:226:LEU:HA	2:ay:238:ASN:ND2	2.33	0.43
2:ay:263:LEU:HD23	2:ay:296:GLN:HE21	1.84	0.43
2:az:215:SER:OG	2:az:216:ARG:N	2.52	0.43
1:aA:59:VAL:HG12	1:aA:61:ALA:N	2.28	0.43
1:aC:102:GLU:HB3	1:hn:99:LEU:HD23	1.96	0.43
2:aI:141:HIS:HB3	2:aI:143:VAL:HG23	2.01	0.43
2:aL:113:HIS:CE1	2:aL:117:LEU:HD11	2.54	0.43
2:aM:144:TYR:HB3	2:aM:145:PRO:HD3	2.01	0.43
1:aO:63:VAL:HG23	1:aO:78:GLN:H	1.84	0.43
2:aV:3:ILE:HG22	2:aV:5:THR:H	1.83	0.43
2:aW:3:ILE:HD11	1:bq:58:PHE:CE1	2.53	0.43
2:ba:5:THR:HG22	1:pr:87:ASP:CB	2.49	0.43
2:bp:232:GLU:O	2:bp:236:GLN:HG2	2.19	0.43
1:bs:102:GLU:HG2	2:cb:62:GLN:HE21	1.84	0.43
1:bu:96:ASP:OD1	2:bC:64:VAL:HG13	2.19	0.43
1:bw:102:GLU:HA	2:dd:198:GLU:CD	2.44	0.43
2:by:3:ILE:HD11	1:hZ:58:PHE:CE1	2.53	0.43
2:bA:235:ASN:O	2:bA:240:GLU:HB2	2.19	0.43
2:bB:113:HIS:CE1	2:bB:117:LEU:HD11	2.54	0.43
2:bD:238:ASN:O	2:bD:241:LYS:HG2	2.18	0.43
1:bF:99:LEU:HA	2:bO:62:GLN:NE2	2.34	0.43
2:bM:24:LEU:HD11	2:bO:257:LEU:HD12	2.00	0.43
2:bO:30:THR:HG21	2:bO:298:LEU:HD13	2.01	0.43
1:bX:102:GLU:HA	2:dr:198:GLU:CD	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bY:18:LYS:HD2	2:bY:98:VAL:HG21	2.00	0.43
2:bZ:3:ILE:HD11	1:iP:58:PHE:CE1	2.53	0.43
2:bZ:141:HIS:CD2	2:bZ:150:THR:HG1	2.33	0.43
2:ca:24:LEU:HD11	2:cc:257:LEU:HD12	2.00	0.43
2:cb:37:VAL:O	2:cb:37:VAL:HG13	2.17	0.43
2:cc:113:HIS:CE1	2:cc:117:LEU:HD11	2.54	0.43
2:cc:216:ARG:HB3	2:cc:219:VAL:HG12	2.00	0.43
2:cd:274:ALA:CB	2:cd:297:VAL:HG21	2.46	0.43
2:ce:246:MET:HA	2:ce:249:GLN:HG2	2.00	0.43
1:cq:99:LEU:HG	2:cq:62:GLN:HE22	1.83	0.43
1:ci:57:VAL:O	1:ci:59:VAL:HG23	2.19	0.43
2:cm:3:ILE:HG22	2:cm:5:THR:H	1.83	0.43
2:cn:173:LEU:HA	2:cn:215:SER:HB3	2.01	0.43
2:co:19:HIS:NE2	2:cq:38:ILE:HD13	2.34	0.43
2:cq:113:HIS:CE1	2:cq:117:LEU:HD11	2.54	0.43
1:cu:99:LEU:HA	2:cE:62:GLN:NE2	2.34	0.43
1:cw:57:VAL:O	1:cw:59:VAL:HG23	2.19	0.43
2:cA:189:LYS:O	2:cA:190:PRO:C	2.61	0.43
2:cA:193:THR:HG22	2:pg:193:THR:HG23	2.00	0.43
2:cB:3:ILE:HD11	1:cV:58:PHE:CE1	2.53	0.43
2:cC:262:ASN:HA	2:cC:295:VAL:HG22	1.99	0.43
2:cF:237:VAL:O	2:cF:241:LYS:HB3	2.18	0.43
2:cG:236:GLN:CB	2:cG:240:GLU:HB3	2.49	0.43
2:cG:246:MET:HA	2:cG:249:GLN:HG2	2.00	0.43
1:cH:59:VAL:HG12	1:cH:61:ALA:N	2.28	0.43
1:cI:99:LEU:HA	2:cS:62:GLN:NE2	2.34	0.43
1:cJ:95:SER:OG	1:cJ:96:ASP:N	2.52	0.43
1:cJ:102:GLU:CD	1:iD:99:LEU:CA	2.87	0.43
1:cL:96:ASP:OD1	2:cT:64:VAL:HG13	2.19	0.43
2:cO:3:ILE:HG22	2:cO:5:THR:H	1.83	0.43
2:cO:18:LYS:HD2	2:cO:98:VAL:HG21	2.00	0.43
2:cO:189:LYS:O	2:cO:190:PRO:C	2.61	0.43
2:cP:198:GLU:CD	1:eV:102:GLU:HA	2.44	0.43
2:cR:36:THR:HG22	2:cR:175:THR:HG22	2.00	0.43
2:cR:235:ASN:O	2:cR:240:GLU:HB2	2.19	0.43
2:cS:113:HIS:CE1	2:cS:117:LEU:HD11	2.54	0.43
2:cT:160:PHE:HB2	2:cT:270:LEU:HD11	2.00	0.43
1:cX:99:LEU:CA	1:gx:102:GLU:CD	2.87	0.43
1:cY:99:LEU:HA	2:dG:197:LYS:CE	2.49	0.43
2:dc:193:THR:HG22	2:eJ:193:THR:HG23	1.99	0.43
2:dg:113:HIS:CE1	2:dg:117:LEU:HD11	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dh:200:ASP:OD1	2:dh:200:ASP:N	2.50	0.43
1:dy:98:LEU:HG	2:dI:62:GLN:CD	2.44	0.43
2:dT:141:HIS:CD2	2:dT:150:THR:HG1	2.33	0.43
2:dU:226:LEU:HD22	2:dU:270:LEU:HD22	2.00	0.43
2:dW:30:THR:HG21	2:dW:298:LEU:HD13	2.01	0.43
1:ed:103:ARG:HD2	2:nz:61:GLY:CA	2.40	0.43
2:eh:201:GLU:O	2:eh:202:GLN:C	2.62	0.43
2:em:106:MET:CE	2:em:206:ALA:HB3	2.49	0.43
1:en:67:CYS:HA	1:en:72:CYS:HA	2.00	0.43
1:eo:99:LEU:HA	2:ey:62:GLN:NE2	2.34	0.43
1:ep:95:SER:OG	1:ep:96:ASP:N	2.52	0.43
1:ep:99:LEU:HB3	1:nI:102:GLU:CD	2.37	0.43
1:er:96:ASP:OD1	2:ez:64:VAL:HG13	2.19	0.43
2:ew:197:LYS:CE	1:nJ:99:LEU:HA	2.49	0.43
2:ex:36:THR:HG22	2:ex:175:THR:HG22	2.00	0.43
2:ez:5:THR:HG22	1:nZ:87:ASP:CB	2.49	0.43
2:eA:229:MET:O	2:eA:285:ASN:ND2	2.52	0.43
2:eJ:141:HIS:CD2	2:eJ:150:THR:HG1	2.35	0.43
1:eQ:99:LEU:HA	2:fa:62:GLN:NE2	2.34	0.43
2:fa:113:HIS:CE1	2:fa:117:LEU:HD11	2.54	0.43
2:fb:237:VAL:O	2:fb:241:LYS:HB3	2.18	0.43
2:fc:183:ILE:HD12	2:fc:183:ILE:H	1.82	0.43
2:fc:251:ALA:HB2	2:fc:257:LEU:HD21	2.01	0.43
1:ff:102:GLU:HG2	2:ij:62:GLN:HE21	1.84	0.43
1:fg:57:VAL:O	1:fg:59:VAL:HG23	2.19	0.43
2:fl:68:MET:SD	2:gD:102:LEU:HD13	2.59	0.43
2:fm:65:ILE:HD12	2:fp:203:VAL:HG13	1.99	0.43
2:fm:262:ASN:HA	2:fm:295:VAL:HG22	1.99	0.43
1:ft:95:SER:OG	1:ft:96:ASP:N	2.52	0.43
2:fz:3:ILE:HD11	1:mo:58:PHE:CE1	2.53	0.43
2:fN:102:LEU:HD13	2:gb:68:MET:SD	2.59	0.43
2:fS:236:GLN:CB	2:fS:240:GLU:HB3	2.49	0.43
1:fT:57:VAL:HB	1:fT:59:VAL:HG23	1.99	0.43
1:fT:67:CYS:HA	1:fT:72:CYS:HA	2.00	0.43
2:gb:3:ILE:HD11	1:in:58:PHE:CE1	2.53	0.43
2:gb:193:THR:HG23	2:ig:193:THR:HG22	1.99	0.43
2:ge:30:THR:HG21	2:ge:298:LEU:HD13	2.01	0.43
2:gg:215:SER:OG	2:gg:216:ARG:N	2.52	0.43
1:gj:95:SER:OG	1:gj:96:ASP:N	2.52	0.43
2:gt:226:LEU:HA	2:gt:238:ASN:ND2	2.33	0.43
2:gu:144:TYR:HH	2:gu:254:GLY:H	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gA:86:SER:O	1:gA:90:LEU:N	2.51	0.43
1:gK:99:LEU:HA	2:gU:62:GLN:NE2	2.34	0.43
2:gR:205:MET:HE2	2:IU:63:ARG:HE	1.72	0.43
2:gR:219:VAL:O	2:gR:219:VAL:CG1	2.66	0.43
1:gY:60:ARG:HG2	1:mr:99:LEU:HD22	2.01	0.43
1:hb:60:ARG:HB2	1:hb:102:GLU:O	2.18	0.43
1:hc:57:VAL:HG22	1:hc:104:CYS:H	1.84	0.43
1:hc:86:SER:O	1:hc:90:LEU:N	2.51	0.43
2:hf:45:ASN:OD1	2:hf:75:ILE:HD12	2.18	0.43
2:hg:183:ILE:CG2	2:hg:207:ASP:HB2	2.47	0.43
2:hh:185:GLN:OE1	2:hh:205:MET:HE3	2.17	0.43
2:hi:113:HIS:CE1	2:hi:117:LEU:HD11	2.54	0.43
2:hj:200:ASP:OD1	2:hj:200:ASP:N	2.50	0.43
1:hp:96:ASP:OD1	2:hw:64:VAL:HG13	2.19	0.43
2:hv:30:THR:HG21	2:hv:298:LEU:HD13	2.01	0.43
2:hx:104:GLN:OE1	5:qz:174:ARG:NH2	2.52	0.43
1:hy:63:VAL:HG23	1:hy:78:GLN:H	1.84	0.43
1:hD:63:VAL:HG13	1:hD:74:ASP:HB3	1.99	0.43
2:hI:30:THR:HG21	2:hI:298:LEU:HD13	2.01	0.43
2:hI:113:HIS:CE1	2:hI:117:LEU:HD11	2.54	0.43
2:hK:183:ILE:H	2:hK:183:ILE:HD12	1.82	0.43
2:hS:189:LYS:O	2:hS:190:PRO:C	2.61	0.43
2:hV:235:ASN:O	2:hV:240:GLU:HB2	2.19	0.43
1:ia:99:LEU:HA	2:ik:62:GLN:NE2	2.34	0.43
2:ih:21:GLN:O	2:ih:22:ASP:OD1	2.37	0.43
2:ii:19:HIS:NE2	2:ik:38:ILE:HD13	2.33	0.43
1:ip:95:SER:OG	1:ip:96:ASP:N	2.52	0.43
2:iv:94:ASP:OD1	2:iv:95:ASN:N	2.51	0.43
2:iv:278:VAL:O	2:iv:278:VAL:HG23	2.19	0.43
1:iB:57:VAL:HB	1:iB:59:VAL:HG23	1.99	0.43
1:iE:57:VAL:O	1:iE:59:VAL:HG23	2.19	0.43
1:iE:62:THR:HG21	1:iE:97:PRO:HB3	2.00	0.43
2:iI:189:LYS:O	2:iI:190:PRO:C	2.61	0.43
2:iJ:94:ASP:OD1	2:iJ:95:ASN:N	2.51	0.43
2:iO:185:GLN:O	2:iO:205:MET:N	2.43	0.43
2:iO:246:MET:HA	2:iO:249:GLN:HG2	2.00	0.43
1:iQ:82:ASP:OD1	1:iQ:83:GLY:N	2.51	0.43
2:iX:141:HIS:HB3	2:iX:143:VAL:HG23	2.01	0.43
2:jc:229:MET:O	2:jc:285:ASN:ND2	2.52	0.43
2:jo:216:ARG:HB3	2:jo:219:VAL:HG12	1.99	0.43
2:jQ:232:GLU:O	2:jQ:236:GLN:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jq:246:MET:HA	2:jq:249:GLN:HG2	2.00	0.43
1:jt:102:GLU:HB3	1:jv:99:LEU:HD23	1.96	0.43
1:ju:58:PHE:CG	1:ju:101:VAL:HG21	2.54	0.43
1:jv:60:ARG:HB2	1:jv:102:GLU:O	2.18	0.43
2:jz:63:ARG:HD2	2:le:205:MET:CE	2.49	0.43
2:jC:30:THR:HG21	2:jC:298:LEU:HD13	2.01	0.43
2:jC:113:HIS:CE1	2:jC:117:LEU:HD11	2.54	0.43
2:jC:216:ARG:HB3	2:jC:219:VAL:HG12	2.00	0.43
1:jF:67:CYS:HA	1:jF:72:CYS:HA	2.00	0.43
1:jG:99:LEU:HA	2:jQ:62:GLN:NE2	2.34	0.43
1:jL:102:GLU:HA	2:pI:198:GLU:CD	2.44	0.43
2:jN:44:SER:OG	2:jN:45:ASN:N	2.51	0.43
2:jO:59:TRP:CE3	2:jR:79:LEU:HD13	2.54	0.43
2:jR:238:ASN:O	2:jR:242:VAL:CG2	2.62	0.43
1:jT:63:VAL:HG12	1:jT:75:LYS:H	1.82	0.43
2:kb:21:GLN:O	2:kb:22:ASP:OD1	2.37	0.43
2:kb:68:MET:SD	2:ls:102:LEU:HD13	2.59	0.43
2:kg:229:MET:O	2:kg:285:ASN:ND2	2.52	0.43
2:ks:238:ASN:O	2:ks:242:VAL:CG2	2.62	0.43
2:kt:246:MET:HA	2:kt:249:GLN:HG2	2.00	0.43
1:ku:57:VAL:HB	1:ku:59:VAL:HG23	1.99	0.43
1:ku:63:VAL:HG12	1:ku:75:LYS:H	1.82	0.43
1:kL:58:PHE:CG	1:kL:101:VAL:HG21	2.54	0.43
1:kW:67:CYS:HA	1:kW:72:CYS:HA	2.00	0.43
1:kZ:62:THR:HG21	1:kZ:97:PRO:HB3	2.00	0.43
1:la:98:LEU:O	2:mK:197:LYS:NZ	2.47	0.43
2:le:192:PHE:HZ	2:lj:196:THR:HG21	1.83	0.43
2:lf:19:HIS:NE2	2:lh:38:ILE:HD13	2.34	0.43
2:lh:113:HIS:CE1	2:lh:117:LEU:HD11	2.54	0.43
2:lj:106:MET:CE	2:lj:206:ALA:HB3	2.49	0.43
2:lj:107:GLY:HA3	2:lj:184:TYR:OH	2.19	0.43
2:lj:276:GLU:OE2	2:lj:280:VAL:HG21	2.19	0.43
1:ll:99:LEU:HA	2:lv:62:GLN:NE2	2.34	0.43
2:lr:248:ASN:OD1	2:lx:268:THR:OG1	2.36	0.43
2:ls:177:ARG:HH11	2:ls:177:ARG:HG3	1.83	0.43
2:lt:262:ASN:HA	2:lt:295:VAL:HG22	1.99	0.43
2:lx:276:GLU:OE2	2:lx:280:VAL:HG21	2.19	0.43
1:lE:102:GLU:HA	2:mY:198:GLU:CD	2.44	0.43
2:lH:80:PHE:HA	2:IJ:59:TRP:HB3	1.99	0.43
1:lM:63:VAL:HG23	1:lM:78:GLN:H	1.84	0.43
1:lM:67:CYS:HA	1:lM:72:CYS:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IN:98:LEU:HG	2:IX:62:GLN:CD	2.44	0.43
2:IZ:215:SER:OG	2:IZ:216:ARG:N	2.52	0.43
1:me:60:ARG:HB2	1:me:102:GLU:O	2.18	0.43
2:mh:98:VAL:HG12	2:mh:99:TYR:N	2.33	0.43
2:mi:198:GLU:CD	1:mu:102:GLU:HA	2.44	0.43
2:mk:60:ILE:HG12	1:nu:105:THR:OG1	2.18	0.43
2:mn:215:SER:OG	2:mn:216:ARG:N	2.52	0.43
1:mq:95:SER:OG	1:mq:96:ASP:N	2.52	0.43
2:mw:77:ASN:HD21	2:mw:179:LEU:HD11	1.84	0.43
2:mw:102:LEU:HD13	2:oE:68:MET:SD	2.59	0.43
2:mw:198:GLU:CD	1:oC:102:GLU:HA	2.44	0.43
2:mx:24:LEU:HD11	2:mz:257:LEU:HD12	2.00	0.43
2:mA:160:PHE:HB2	2:mA:270:LEU:HD11	2.00	0.43
1:mD:99:LEU:HA	2:mN:62:GLN:NE2	2.34	0.43
2:mL:59:TRP:CE3	2:mO:79:LEU:HD13	2.54	0.43
2:mY:57:ARG:NH2	2:mY:58:GLU:O	2.48	0.43
2:nd:215:SER:OG	2:nd:216:ARG:N	2.52	0.43
2:nm:141:HIS:HB3	2:nm:143:VAL:HG23	2.01	0.43
2:nm:219:VAL:O	2:nm:219:VAL:CG1	2.66	0.43
2:nn:19:HIS:NE2	2:np:38:ILE:HD13	2.34	0.43
2:nr:107:GLY:HA3	2:nr:184:TYR:OH	2.19	0.43
1:ny:86:SER:O	1:ny:90:LEU:N	2.47	0.43
2:nF:236:GLN:CB	2:nF:240:GLU:HB3	2.49	0.43
2:nF:236:GLN:HB2	2:nF:240:GLU:HB3	2.00	0.43
1:nH:99:LEU:HG	2:nR:62:GLN:HE22	1.83	0.43
2:nO:141:HIS:HB3	2:nO:143:VAL:HG23	2.01	0.43
2:nO:278:VAL:HG23	2:nO:278:VAL:O	2.19	0.43
2:nQ:62:GLN:HE21	1:pa:102:GLU:HG2	1.84	0.43
2:nT:106:MET:CE	2:nT:206:ALA:HB3	2.49	0.43
2:nT:229:MET:O	2:nT:285:ASN:ND2	2.52	0.43
2:nT:251:ALA:HB2	2:nT:257:LEU:HD21	2.01	0.43
2:oh:232:GLU:O	2:oh:236:GLN:HG2	2.19	0.43
2:oh:251:ALA:HB2	2:oh:257:LEU:HD21	2.01	0.43
1:on:57:VAL:HG22	1:on:104:CYS:H	1.83	0.43
2:oq:177:ARG:HH11	2:oq:177:ARG:HG3	1.83	0.43
2:ot:30:THR:HG21	2:ot:298:LEU:HD13	2.01	0.43
2:oE:44:SER:OG	2:oE:45:ASN:N	2.51	0.43
2:oE:177:ARG:HH11	2:oE:177:ARG:HG3	1.83	0.43
2:oF:59:TRP:CE3	2:oI:79:LEU:HD13	2.54	0.43
2:oH:30:THR:HG21	2:oH:298:LEU:HD13	2.01	0.43
2:oI:89:THR:N	2:oI:200:ASP:OD2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oL:98:LEU:HG	2:oV:62:GLN:CD	2.44	0.43
1:oN:62:THR:HG21	1:oN:97:PRO:HB3	2.00	0.43
1:oP:57:VAL:HG22	1:oP:104:CYS:H	1.84	0.43
2:oR:3:ILE:HG22	2:oR:5:THR:H	1.83	0.43
2:oR:246:MET:HE2	2:oR:259:ILE:CG2	2.48	0.43
2:oS:44:SER:OG	2:oS:45:ASN:N	2.51	0.43
2:oS:173:LEU:HA	2:oS:215:SER:HB3	2.01	0.43
2:oT:96:LEU:HB2	2:oT:98:VAL:HG22	1.99	0.43
2:oU:235:ASN:O	2:oU:240:GLU:HB2	2.19	0.43
2:oX:106:MET:CE	2:oX:206:ALA:HB3	2.49	0.43
2:pf:229:MET:HB3	2:pf:234:LEU:HD22	2.01	0.43
2:pg:177:ARG:HH11	2:pg:177:ARG:HG3	1.83	0.43
2:ph:59:TRP:CE3	2:pk:79:LEU:HD13	2.54	0.43
1:pm:63:VAL:HG23	1:pm:78:GLN:H	1.84	0.43
1:pn:99:LEU:HG	2:px:62:GLN:HE22	1.83	0.43
1:pp:57:VAL:O	1:pp:59:VAL:HG23	2.19	0.43
1:pq:60:ARG:HB2	1:pq:102:GLU:O	2.18	0.43
2:pt:98:VAL:HG12	2:pt:99:TYR:N	2.33	0.43
2:pu:77:ASN:HD21	2:pu:179:LEU:HD11	1.84	0.43
2:pu:193:THR:HG23	2:pH:193:THR:HG22	1.99	0.43
1:pC:95:SER:OG	1:pC:96:ASP:N	2.52	0.43
1:pD:57:VAL:O	1:pD:59:VAL:HG23	2.19	0.43
1:pD:58:PHE:CG	1:pD:101:VAL:HG21	2.54	0.43
2:pH:189:LYS:O	2:pH:190:PRO:C	2.61	0.43
2:pL:30:THR:HG21	2:pL:298:LEU:HD13	2.01	0.43
2:pL:113:HIS:CE1	2:pL:117:LEU:HD11	2.54	0.43
2:pN:229:MET:O	2:pN:285:ASN:ND2	2.52	0.43
2:pN:276:GLU:OE2	2:pN:280:VAL:HG21	2.19	0.43
2:pX:226:LEU:HD22	2:pX:270:LEU:HD22	2.00	0.43
2:qb:106:MET:CE	2:qb:206:ALA:HB3	2.49	0.43
2:qb:215:SER:OG	2:qb:216:ARG:N	2.52	0.43
2:qb:299:ASP:O	2:qb:300:THR:OG1	2.36	0.43
3:qd:66:GLN:O	3:qd:67:ARG:HG2	2.18	0.43
3:qd:68:ALA:CB	4:qn:8:TYR:CE2	3.02	0.43
3:qg:65:GLY:C	4:qk:10:GLN:CD	2.85	0.43
3:qh:68:ALA:CA	4:qj:8:TYR:CZ	3.02	0.43
3:qi:134:SER:HG	3:qi:138:TYR:HH	1.60	0.43
4:qk:18:ILE:N	4:qk:184:THR:O	2.43	0.43
4:qk:46:HIS:O	4:qk:57:VAL:HG12	2.18	0.43
4:qo:177:MET:SD	4:qo:177:MET:N	2.92	0.43
5:qp:24:ARG:O	5:qp:25:LEU:HD22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qp:399:VAL:O	5:qp:403:LEU:HD23	2.18	0.43
5:qt:284:PRO:CB	5:qv:227:LEU:HD21	2.48	0.43
5:qx:42:PRO:CD	6:qC:133:ASP:OD1	2.59	0.43
6:qy:112:LEU:CD1	6:qA:58:LEU:HD12	2.48	0.43
5:qJ:248:LYS:NZ	6:qM:121:VAL:CG1	2.80	0.43
5:qJ:380:MET:HE3	5:qJ:380:MET:HB3	1.91	0.43
6:qK:17:LYS:CE	6:qM:81:ILE:HG21	2.49	0.43
5:qL:399:VAL:O	5:qL:403:LEU:HD23	2.18	0.43
1:ae:59:VAL:O	1:ae:59:VAL:HG13	2.18	0.43
2:ag:3:ILE:HG22	2:ag:5:THR:H	1.83	0.43
2:ag:229:MET:HB3	2:ag:234:LEU:HD22	2.01	0.43
2:au:229:MET:HB3	2:au:234:LEU:HD22	2.01	0.43
2:av:53:PHE:O	2:av:255:ARG:NH2	2.43	0.43
2:ax:30:THR:HG21	2:ax:298:LEU:HD13	2.01	0.43
1:aC:95:SER:OG	1:aC:96:ASP:N	2.52	0.43
1:aE:96:ASP:OD1	2:aM:64:VAL:HG13	2.19	0.43
1:aF:59:VAL:O	1:aF:59:VAL:HG13	2.18	0.43
1:aG:102:GLU:HA	2:kb:198:GLU:CD	2.44	0.43
2:aH:189:LYS:O	2:aH:190:PRO:C	2.61	0.43
2:aI:278:VAL:HG23	2:aI:278:VAL:O	2.19	0.43
2:aN:236:GLN:CB	2:aN:240:GLU:HB3	2.49	0.43
1:aP:98:LEU:HG	2:aZ:62:GLN:CD	2.44	0.43
1:aS:102:GLU:HG2	2:iI:62:GLN:OE1	2.02	0.43
1:aU:102:GLU:HA	2:iJ:198:GLU:CD	2.44	0.43
2:aV:18:LYS:HD2	2:aV:98:VAL:HG21	2.00	0.43
2:aX:197:LYS:CE	1:ci:99:LEU:HA	2.48	0.43
2:bb:276:GLU:OE2	2:bb:280:VAL:HG21	2.19	0.43
2:bk:282:ARG:HH11	2:dr:282:ARG:NH2	1.93	0.43
2:bm:36:THR:HG22	2:bm:175:THR:HG22	2.00	0.43
2:bp:106:MET:CE	2:bp:206:ALA:HB3	2.49	0.43
1:br:104:CYS:HA	2:fc:62:GLN:HE22	1.82	0.43
1:bt:62:THR:HG21	1:bt:97:PRO:HB3	2.00	0.43
2:bz:70:ALA:HB2	2:dJ:9:ILE:HD11	2.01	0.43
2:bA:62:GLN:HE21	1:eR:102:GLU:HG2	1.84	0.43
2:bD:107:GLY:HA3	2:bD:184:TYR:OH	2.19	0.43
2:bD:215:SER:OG	2:bD:216:ARG:N	2.52	0.43
2:bD:229:MET:O	2:bD:285:ASN:ND2	2.52	0.43
1:bH:57:VAL:O	1:bH:59:VAL:HG23	2.19	0.43
1:bJ:57:VAL:HG22	1:bJ:104:CYS:H	1.84	0.43
1:bJ:87:ASP:CB	2:IY:5:THR:HG22	2.49	0.43
2:bN:37:VAL:O	2:bN:37:VAL:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bP:9:ILE:HD11	2:lV:70:ALA:HB2	2.01	0.43
1:bS:99:LEU:HA	2:cc:62:GLN:NE2	2.34	0.43
1:bU:103:ARG:NH1	2:iK:61:GLY:CA	2.70	0.43
1:bV:96:ASP:OD1	2:cd:64:VAL:HG13	2.19	0.43
2:bZ:44:SER:OG	2:bZ:45:ASN:N	2.51	0.43
2:bZ:77:ASN:HD21	2:bZ:179:LEU:HD11	1.84	0.43
2:ca:226:LEU:HD22	2:ca:270:LEU:HD22	2.00	0.43
2:cd:237:VAL:O	2:cd:241:LYS:HB3	2.18	0.43
1:cf:59:VAL:HG12	1:cf:61:ALA:N	2.28	0.43
1:cf:67:CYS:HA	1:cf:72:CYS:HA	2.00	0.43
2:cr:9:ILE:HD11	2:lt:70:ALA:HB2	2.01	0.43
2:cs:276:GLU:OE2	2:cs:280:VAL:HG21	2.19	0.43
1:cu:60:ARG:HG2	1:dO:99:LEU:HD22	2.01	0.43
1:cv:105:THR:OG1	2:pK:60:ILE:HG12	2.18	0.43
2:cB:45:ASN:OD1	2:cB:75:ILE:HD12	2.18	0.43
2:cC:61:GLY:CA	1:pb:103:ARG:NH1	2.70	0.43
2:cC:197:LYS:CE	1:dO:99:LEU:HA	2.49	0.43
2:cF:5:THR:HG22	1:nL:87:ASP:CB	2.49	0.43
2:cG:215:SER:OG	2:cG:216:ARG:N	2.52	0.43
1:cH:58:PHE:CE1	2:pg:3:ILE:HD11	2.53	0.43
1:cH:63:VAL:HG23	1:cH:78:GLN:H	1.84	0.43
1:cH:67:CYS:HA	1:cH:72:CYS:HA	2.00	0.43
2:cP:3:ILE:HD11	1:fd:58:PHE:CE1	2.53	0.43
2:cT:237:VAL:O	2:cT:241:LYS:HB3	2.18	0.43
1:cX:102:GLU:HG2	2:dH:62:GLN:HE21	1.84	0.43
2:dd:21:GLN:O	2:dd:22:ASP:OD1	2.37	0.43
2:di:232:GLU:O	2:di:236:GLN:HG2	2.19	0.43
2:di:236:GLN:CB	2:di:240:GLU:HB3	2.49	0.43
1:dj:63:VAL:HG23	1:dj:78:GLN:H	1.84	0.43
1:dl:105:THR:OG1	2:hV:60:ILE:HG12	2.18	0.43
2:dq:189:LYS:O	2:dq:190:PRO:C	2.61	0.43
2:ds:59:TRP:CE3	2:dv:79:LEU:HD13	2.54	0.43
2:dt:36:THR:HG22	2:dt:175:THR:HG22	2.00	0.43
1:dx:59:VAL:HG12	1:dx:61:ALA:N	2.28	0.43
1:dx:63:VAL:HG23	1:dx:78:GLN:H	1.84	0.43
2:dF:102:LEU:HD13	2:pg:68:MET:SD	2.59	0.43
2:dG:262:ASN:HA	2:dG:295:VAL:HG22	2.00	0.43
2:dK:229:MET:O	2:dK:285:ASN:ND2	2.52	0.43
1:dP:60:ARG:HB2	1:dP:102:GLU:O	2.18	0.43
2:dY:215:SER:OG	2:dY:216:ARG:N	2.52	0.43
1:ee:59:VAL:O	1:ee:59:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eh:68:MET:SD	2:nA:102:LEU:HD13	2.59	0.43
2:ei:197:LYS:CE	1:fu:99:LEU:HA	2.49	0.43
1:en:63:VAL:HG23	1:en:78:GLN:H	1.84	0.43
2:eu:246:MET:HE2	2:eu:259:ILE:CG2	2.48	0.43
2:ev:102:LEU:HD13	2:gD:68:MET:SD	2.59	0.43
2:ev:141:HIS:HB3	2:ev:143:VAL:HG23	2.01	0.43
1:eD:102:GLU:CD	1:ff:99:LEU:CA	2.87	0.43
2:eI:3:ILE:HG22	2:eI:5:THR:H	1.83	0.43
2:eI:18:LYS:HD2	2:eI:98:VAL:HG21	2.00	0.43
2:eJ:21:GLN:O	2:eJ:22:ASP:OD1	2.37	0.43
2:eJ:201:GLU:O	2:eJ:202:GLN:C	2.62	0.43
2:eM:113:HIS:CE1	2:eM:117:LEU:HD11	2.54	0.43
2:eN:144:TYR:HB3	2:eN:145:PRO:HD3	2.01	0.43
2:eO:276:GLU:OE2	2:eO:280:VAL:HG21	2.19	0.43
1:eU:101:VAL:O	1:eU:101:VAL:HG23	2.19	0.43
2:eW:189:LYS:O	2:eW:190:PRO:C	2.61	0.43
2:eW:226:LEU:O	2:eW:273:LYS:NZ	2.48	0.43
2:eX:75:ILE:HG21	2:eX:177:ARG:NH1	2.32	0.43
2:eX:94:ASP:OD1	2:eX:95:ASN:N	2.51	0.43
2:eY:59:TRP:CE3	2:fb:79:LEU:HD13	2.54	0.43
2:eY:262:ASN:HA	2:eY:295:VAL:HG22	2.00	0.43
2:fa:30:THR:HG21	2:fa:298:LEU:HD13	2.01	0.43
2:fb:160:PHE:HB2	2:fb:270:LEU:HD11	2.00	0.43
1:fe:99:LEU:HG	2:fo:62:GLN:HE22	1.83	0.43
1:ff:102:GLU:HB3	1:ib:99:LEU:HD23	1.96	0.43
1:fg:58:PHE:CG	1:fg:101:VAL:HG21	2.54	0.43
2:fq:107:GLY:HA3	2:fq:184:TYR:OH	2.19	0.43
2:fq:276:GLU:OE2	2:fq:280:VAL:HG21	2.19	0.43
1:fs:99:LEU:HA	2:fC:62:GLN:NE2	2.34	0.43
1:fw:101:VAL:HG23	1:fw:101:VAL:O	2.19	0.43
2:fz:141:HIS:HB3	2:fz:143:VAL:HG23	2.01	0.43
2:fC:30:THR:HG21	2:fC:298:LEU:HD13	2.01	0.43
1:fF:63:VAL:HG23	1:fF:78:GLN:H	1.84	0.43
1:fL:86:SER:O	1:fL:90:LEU:N	2.47	0.43
2:fN:75:ILE:HG21	2:fN:177:ARG:NH1	2.32	0.43
2:fP:60:ILE:HG12	1:gZ:105:THR:OG1	2.18	0.43
1:fW:62:THR:HG21	1:fW:97:PRO:HB3	2.00	0.43
1:fX:96:ASP:OD1	2:gf:64:VAL:HG13	2.19	0.43
2:go:13:LYS:NZ	2:hV:90:ASP:O	2.52	0.43
2:gt:144:TYR:HB3	2:gt:145:PRO:HD3	2.01	0.43
2:gG:113:HIS:CE1	2:gG:117:LEU:HD11	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gL:95:SER:OG	1:gL:96:ASP:N	2.52	0.43
1:gM:58:PHE:CG	1:gM:101:VAL:HG21	2.54	0.43
1:gP:102:GLU:HA	2:ih:198:GLU:CD	2.44	0.43
2:gR:102:LEU:HD13	2:lU:68:MET:SD	2.59	0.43
2:gR:173:LEU:HA	2:gR:215:SER:HB3	2.00	0.43
2:gW:106:MET:CE	2:gW:206:ALA:HB3	2.49	0.43
2:gW:232:GLU:O	2:gW:236:GLN:HG2	2.19	0.43
1:gZ:95:SER:OG	1:gZ:96:ASP:N	2.52	0.43
2:he:193:THR:HG22	2:lG:193:THR:HG23	2.00	0.43
2:hF:44:SER:OG	2:hF:45:ASN:N	2.51	0.43
2:hh:62:GLN:HE21	1:mq:102:GLU:HG2	1.84	0.43
2:hk:229:MET:O	2:hk:285:ASN:ND2	2.52	0.43
2:hk:299:ASP:O	2:hk:300:THR:OG1	2.36	0.43
1:hq:101:VAL:HG23	1:hq:101:VAL:O	2.19	0.43
2:hs:13:LYS:NZ	2:kq:90:ASP:O	2.52	0.43
2:ht:59:TRP:CE3	2:hw:79:LEU:HD13	2.54	0.43
2:hX:103:MET:CE	5:qz:31:GLU:CB	2.91	0.43
1:hZ:99:LEU:HA	2:hI:62:GLN:NE2	2.34	0.43
1:hB:57:VAL:O	1:hB:59:VAL:HG23	2.19	0.43
2:hF:18:LYS:HD2	2:hF:98:VAL:HG21	2.00	0.43
2:hH:235:ASN:O	2:hH:240:GLU:HB2	2.19	0.43
2:hI:57:ARG:HD3	2:hI:58:GLU:N	2.32	0.43
2:hJ:9:ILE:HD11	2:kR:70:ALA:HB2	2.01	0.43
1:hL:59:VAL:HG12	1:hL:61:ALA:N	2.28	0.43
1:hP:96:ASP:OD1	2:hX:64:VAL:HG13	2.19	0.43
2:hW:216:ARG:HB3	2:hW:219:VAL:HG12	1.99	0.43
2:hY:251:ALA:HB2	2:hY:257:LEU:HD21	2.01	0.43
2:ig:3:ILE:HG22	2:ig:5:THR:H	1.83	0.43
2:im:232:GLU:O	2:im:236:GLN:HG2	2.19	0.43
1:ip:105:THR:OG1	2:lu:60:ILE:HG12	2.18	0.43
1:iq:58:PHE:CG	1:iq:101:VAL:HG21	2.54	0.43
1:it:100:LYS:NZ	1:jT:100:LYS:CD	2.71	0.43
2:iv:21:GLN:O	2:iv:22:ASP:OD1	2.37	0.43
2:iv:192:PHE:HZ	2:iA:196:THR:HG21	1.83	0.43
1:iE:58:PHE:CG	1:iE:101:VAL:HG21	2.54	0.43
2:iI:18:LYS:HD2	2:iI:98:VAL:HG21	2.00	0.43
2:iL:246:MET:HE2	2:iL:259:ILE:CG2	2.48	0.43
2:iX:21:GLN:O	2:iX:22:ASP:OD1	2.37	0.43
2:jC:238:ASN:O	2:jC:241:LYS:HG2	2.18	0.43
1:jD:67:CYS:HA	1:jD:72:CYS:HA	2.00	0.43
2:jL:219:VAL:O	2:jL:219:VAL:CG1	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jn:37:VAL:HG13	2:jn:37:VAL:O	2.17	0.43
2:jo:113:HIS:CE1	2:jo:117:LEU:HD11	2.54	0.43
1:jw:101:VAL:O	1:jw:101:VAL:HG23	2.18	0.43
2:jz:201:GLU:O	2:jz:202:GLN:C	2.62	0.43
2:jB:90:ASP:O	2:pV:13:LYS:NZ	2.52	0.43
2:jE:183:ILE:HD12	2:jE:183:ILE:H	1.82	0.43
1:jI:57:VAL:O	1:jI:59:VAL:HG23	2.19	0.43
2:jP:235:ASN:O	2:jP:240:GLU:HB2	2.19	0.43
2:jQ:20:PHE:N	2:jQ:20:PHE:CD1	2.87	0.43
2:jS:236:GLN:HB2	2:jS:240:GLU:HB3	2.00	0.43
1:jV:102:GLU:OE1	1:mS:99:LEU:CA	2.28	0.43
1:jW:58:PHE:CG	1:jW:101:VAL:HG21	2.54	0.43
2:ka:98:VAL:HG12	2:ka:99:TYR:N	2.33	0.43
2:ke:30:THR:HG21	2:ke:298:LEU:HD13	2.01	0.43
2:kf:226:LEU:HA	2:kf:238:ASN:ND2	2.33	0.43
1:ki:99:LEU:HG	2:kr:62:GLN:HE22	1.83	0.43
1:kj:95:SER:OG	1:kj:96:ASP:N	2.52	0.43
2:kp:65:ILE:HD12	2:ks:203:VAL:HG13	1.99	0.43
2:kr:216:ARG:HB3	2:kr:219:VAL:HG12	2.00	0.43
2:kt:106:MET:CE	2:kt:206:ALA:HB3	2.49	0.43
2:kt:144:TYR:HH	2:kt:254:GLY:H	1.67	0.43
1:kz:101:VAL:O	1:kz:101:VAL:HG23	2.18	0.43
2:kB:61:GLY:CA	1:kM:103:ARG:HD2	2.40	0.43
2:kG:263:LEU:HD23	2:kG:296:GLN:HE21	1.84	0.43
1:kM:96:ASP:OD1	2:kU:64:VAL:HG13	2.19	0.43
2:kP:18:LYS:HD2	2:kP:98:VAL:HG21	2.00	0.43
2:kP:98:VAL:HG12	2:kP:99:TYR:N	2.33	0.43
2:kQ:141:HIS:HB3	2:kQ:143:VAL:HG23	2.01	0.43
2:kR:24:LEU:HD11	2:kT:257:LEU:HD12	2.00	0.43
2:kV:107:GLY:HA3	2:kV:184:TYR:OH	2.19	0.43
1:kX:104:CYS:HA	2:oJ:62:GLN:HE22	1.82	0.43
1:kY:105:THR:OG1	2:lI:60:ILE:HG12	2.18	0.43
2:ld:18:LYS:HD2	2:ld:98:VAL:HG21	2.00	0.43
2:le:63:ARG:HD2	2:mK:205:MET:CE	2.49	0.43
2:lf:59:TRP:CE3	2:li:79:LEU:HD13	2.54	0.43
2:lg:60:ILE:HG12	1:oy:105:THR:OG1	2.18	0.43
2:li:144:TYR:HB3	2:li:145:PRO:HD3	2.01	0.43
2:li:274:ALA:CB	2:li:297:VAL:HG21	2.46	0.43
2:lj:251:ALA:HB2	2:lj:257:LEU:HD21	2.01	0.43
1:ll:98:LEU:HG	2:lv:62:GLN:CD	2.44	0.43
2:lr:189:LYS:O	2:lr:190:PRO:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lv:113:HIS:CE1	2:lv:117:LEU:HD11	2.54	0.43
2:lx:232:GLU:O	2:lx:236:GLN:HG2	2.19	0.43
1:lz:99:LEU:HA	2:IJ:62:GLN:NE2	2.34	0.43
1:lB:57:VAL:O	1:lB:59:VAL:HG23	2.19	0.43
2:lG:68:MET:SD	2:mY:102:LEU:HD13	2.59	0.43
2:lU:44:SER:OG	2:lU:45:ASN:N	2.51	0.43
2:IX:113:HIS:CE1	2:IX:117:LEU:HD11	2.54	0.43
2:IY:226:LEU:HA	2:IY:238:ASN:ND2	2.33	0.43
2:lZ:106:MET:CE	2:lZ:206:ALA:HB3	2.49	0.43
2:mn:236:GLN:CB	2:mn:240:GLU:HB3	2.49	0.43
2:mw:45:ASN:OD1	2:mw:75:ILE:HD12	2.18	0.43
2:mx:63:ARG:HE	2:mA:205:MET:CE	2.30	0.43
2:mA:263:LEU:HD23	2:mA:296:GLN:HE21	1.84	0.43
2:mJ:246:MET:HE2	2:mJ:259:ILE:CG2	2.48	0.43
2:mK:21:GLN:O	2:mK:22:ASP:OD1	2.37	0.43
2:mP:215:SER:OG	2:mP:216:ARG:N	2.52	0.43
2:mX:189:LYS:O	2:mX:190:PRO:C	2.61	0.43
2:mY:219:VAL:O	2:mY:219:VAL:CG1	2.66	0.43
2:nb:30:THR:HG21	2:nb:298:LEU:HD13	2.01	0.43
1:nj:57:VAL:HG22	1:nj:104:CYS:H	1.84	0.43
1:nk:102:GLU:HA	2:oE:198:GLU:CD	2.44	0.43
2:nm:192:PHE:HZ	2:nr:196:THR:HG21	1.83	0.43
1:nt:98:LEU:HG	2:nD:62:GLN:CD	2.44	0.43
1:nu:95:SER:OG	1:nu:96:ASP:N	2.52	0.43
1:nw:60:ARG:HB2	1:nw:102:GLU:O	2.18	0.43
1:nw:96:ASP:OD1	2:nE:64:VAL:HG13	2.19	0.43
1:nx:57:VAL:HG22	1:nx:104:CYS:H	1.83	0.43
2:nA:141:HIS:HB3	2:nA:143:VAL:HG23	2.01	0.43
1:nJ:58:PHE:CG	1:nJ:101:VAL:HG21	2.54	0.43
1:nK:96:ASP:OD1	2:nS:64:VAL:HG13	2.19	0.43
2:nO:102:LEU:HD13	2:oc:68:MET:SD	2.59	0.43
2:nO:219:VAL:O	2:nO:219:VAL:CG1	2.66	0.43
2:nT:215:SER:OG	2:nT:216:ARG:N	2.52	0.43
1:nU:63:VAL:HG23	1:nU:78:GLN:H	1.84	0.43
1:nV:99:LEU:HG	2:of:62:GLN:HE22	1.83	0.43
1:nX:57:VAL:O	1:nX:59:VAL:HG23	2.19	0.43
1:nZ:59:VAL:O	1:nZ:59:VAL:HG13	2.18	0.43
2:oc:177:ARG:HH11	2:oc:177:ARG:HG3	1.83	0.43
2:of:30:THR:HG21	2:of:298:LEU:HD13	2.01	0.43
2:oh:215:SER:OG	2:oh:216:ARG:N	2.52	0.43
2:oh:229:MET:O	2:oh:285:ASN:ND2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oi:67:CYS:HA	1:oi:72:CYS:HA	2.00	0.43
1:oj:98:LEU:HG	2:ot:62:GLN:CD	2.44	0.43
1:ol:57:VAL:O	1:ol:59:VAL:HG23	2.19	0.43
2:ot:88:ARG:O	2:ot:91:ILE:HG12	2.19	0.43
1:oA:96:ASP:OD1	2:oI:64:VAL:HG13	2.19	0.43
2:oE:77:ASN:HD21	2:oE:179:LEU:HD11	1.84	0.43
2:oR:98:VAL:HG12	2:oR:99:TYR:N	2.33	0.43
2:pu:102:LEU:HD13	2:pI:68:MET:SD	2.59	0.43
2:py:160:PHE:HB2	2:py:270:LEU:HD11	2.00	0.43
2:pz:106:MET:CE	2:pz:206:ALA:HB3	2.49	0.43
2:pz:232:GLU:O	2:pz:236:GLN:HG2	2.19	0.43
2:pz:251:ALA:HB2	2:pz:257:LEU:HD21	2.01	0.43
1:pE:96:ASP:OD1	2:pM:64:VAL:HG13	2.19	0.43
2:pI:278:VAL:O	2:pI:278:VAL:HG23	2.19	0.43
2:pJ:59:TRP:CE3	2:pM:79:LEU:HD13	2.54	0.43
2:pN:185:GLN:O	2:pN:205:MET:N	2.43	0.43
2:pN:236:GLN:HB2	2:pN:240:GLU:HB3	2.00	0.43
2:pN:236:GLN:CB	2:pN:240:GLU:HB3	2.49	0.43
1:pP:99:LEU:HA	2:pZ:62:GLN:NE2	2.34	0.43
1:pT:86:SER:O	1:pT:90:LEU:N	2.51	0.43
2:pW:177:ARG:HH11	2:pW:177:ARG:HG3	1.83	0.43
3:qi:37:LEU:HD12	3:qi:42:GLN:NE2	2.34	0.43
4:qj:64:LYS:HZ2	4:qk:53:GLN:HG2	1.81	0.43
4:qj:177:MET:SD	4:qj:177:MET:N	2.92	0.43
4:ql:46:HIS:O	4:ql:57:VAL:HG12	2.18	0.43
4:qn:46:HIS:O	4:qn:57:VAL:HG12	2.18	0.43
5:qp:240:PRO:HA	5:qr:268:GLU:OE1	2.18	0.43
6:qq:81:ILE:HG21	6:qM:17:LYS:CE	2.49	0.43
6:qq:121:VAL:CG1	5:qL:248:LYS:NZ	2.80	0.43
5:qv:24:ARG:O	5:qv:25:LEU:HD22	2.18	0.43
6:qA:112:LEU:HD23	6:qC:58:LEU:CB	2.43	0.43
6:qA:133:ASP:O	6:qA:134:TRP:HB2	2.19	0.43
5:qH:24:ARG:O	5:qH:25:LEU:HD22	2.18	0.43
6:qI:17:LYS:CE	6:qK:81:ILE:HG21	2.49	0.43
6:qM:83:LEU:HD11	6:qM:89:VAL:HG13	2.00	0.43
1:ac:58:PHE:CG	1:ac:101:VAL:HG21	2.54	0.43
1:ad:60:ARG:HB2	1:ad:102:GLU:O	2.18	0.43
2:ah:68:MET:SD	2:oc:102:LEU:HD13	2.59	0.43
2:ah:102:LEU:HD13	2:oS:68:MET:SD	2.59	0.43
2:aj:90:ASP:O	2:oR:13:LYS:NZ	2.52	0.43
2:ak:30:THR:HG21	2:ak:298:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ak:113:HIS:CE1	2:ak:117:LEU:HD11	2.54	0.43
1:ap:105:THR:OG1	2:dt:60:ILE:HG12	2.18	0.43
1:aq:58:PHE:CG	1:aq:101:VAL:HG21	2.54	0.43
2:au:188:MET:CE	5:qL:178:PRO:HB3	2.49	0.43
2:az:107:GLY:HA3	2:az:184:TYR:OH	2.19	0.43
2:az:190:PRO:HD3	5:qH:47:ARG:HD2	2.01	0.43
2:az:232:GLU:O	2:az:236:GLN:HG2	2.19	0.43
2:az:251:ALA:HB2	2:az:257:LEU:HD21	2.01	0.43
2:az:276:GLU:OE2	2:az:280:VAL:HG21	2.19	0.43
1:aA:63:VAL:HG23	1:aA:78:GLN:H	1.84	0.43
1:aD:99:LEU:HD22	1:hm:60:ARG:HG2	2.01	0.43
1:aE:103:ARG:HD2	2:ka:61:GLY:CA	2.40	0.43
2:aI:201:GLU:O	2:aI:202:GLN:C	2.62	0.43
2:aN:215:SER:OG	2:aN:216:ARG:N	2.52	0.43
2:aW:21:GLN:O	2:aW:22:ASP:OD1	2.37	0.43
2:aW:68:MET:SD	2:iJ:102:LEU:HD13	2.59	0.43
2:aW:141:HIS:HB3	2:aW:143:VAL:HG23	2.01	0.43
2:aX:70:ALA:HB2	2:py:9:ILE:HD11	2.01	0.43
2:ba:9:ILE:HD11	2:pv:70:ALA:HB2	2.01	0.43
2:bb:229:MET:O	2:bb:285:ASN:ND2	2.52	0.43
2:bb:251:ALA:HB2	2:bb:257:LEU:HD21	2.01	0.43
1:bh:57:VAL:HG22	1:bh:104:CYS:H	1.84	0.43
2:bm:60:ILE:HG12	1:iR:105:THR:OG1	2.18	0.43
2:bp:276:GLU:OE2	2:bp:280:VAL:HG21	2.19	0.43
1:bq:63:VAL:HG23	1:bq:78:GLN:H	1.84	0.43
1:bq:67:CYS:HA	1:bq:72:CYS:HA	2.00	0.43
2:bx:18:LYS:HD2	2:bx:98:VAL:HG21	2.00	0.43
2:bx:193:THR:HG22	2:dd:193:THR:HG23	2.00	0.43
2:bx:229:MET:HB3	2:bx:234:LEU:HD22	2.01	0.43
2:bP:5:THR:HG22	1:lR:87:ASP:CB	2.49	0.43
2:bP:226:LEU:HA	2:bP:238:ASN:ND2	2.33	0.43
2:bQ:215:SER:OG	2:bQ:216:ARG:N	2.52	0.43
2:bQ:232:GLU:O	2:bQ:236:GLN:HG2	2.19	0.43
1:bT:102:GLU:HB3	1:eR:99:LEU:HD23	1.96	0.43
1:bT:102:GLU:HG2	2:eZ:62:GLN:HE21	1.84	0.43
2:bY:189:LYS:O	2:bY:190:PRO:C	2.61	0.43
2:cb:90:ASP:O	2:iI:13:LYS:NZ	2.52	0.43
2:ce:232:GLU:O	2:ce:236:GLN:HG2	2.19	0.43
2:cn:63:ARG:NE	2:iv:205:MET:CE	2.74	0.43
2:cn:94:ASP:OD1	2:cn:95:ASN:N	2.51	0.43
2:cn:102:LEU:HD13	2:pu:68:MET:SD	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:co:70:ALA:HB2	2:lw:9:ILE:HD11	2.01	0.43
2:cs:246:MET:HA	2:cs:249:GLN:HG2	2.00	0.43
1:cv:99:LEU:HB3	1:dN:102:GLU:CD	2.37	0.43
1:cw:58:PHE:CG	1:cw:101:VAL:HG21	2.54	0.43
1:cz:102:GLU:HA	2:pg:198:GLU:CD	2.44	0.43
2:cP:102:LEU:HD13	2:eX:68:MET:SD	2.59	0.43
2:cP:141:HIS:HB3	2:cP:143:VAL:HG23	2.01	0.43
2:cP:177:ARG:HH11	2:cP:177:ARG:HG3	1.83	0.43
2:cR:90:ASP:O	2:eW:13:LYS:NZ	2.52	0.43
2:dd:68:MET:SD	2:eJ:102:LEU:HD13	2.59	0.43
2:df:60:ILE:HG12	1:gx:105:THR:OG1	2.18	0.43
1:dk:99:LEU:HA	2:du:62:GLN:NE2	2.34	0.43
1:dl:102:GLU:HG2	2:hV:62:GLN:HE21	1.84	0.43
2:dr:173:LEU:HA	2:dr:215:SER:HB3	2.00	0.43
2:dr:177:ARG:HH11	2:dr:177:ARG:HG3	1.83	0.43
2:dt:235:ASN:O	2:dt:240:GLU:HB2	2.19	0.43
2:dv:5:THR:HG22	1:km:87:ASP:CB	2.49	0.43
1:dA:62:THR:HG21	1:dA:97:PRO:HB3	2.00	0.43
1:dC:57:VAL:HG22	1:dC:104:CYS:H	1.84	0.43
2:dF:193:THR:HG23	2:pf:193:THR:HG22	1.99	0.43
2:dG:96:LEU:HB2	2:dG:98:VAL:HG22	1.99	0.43
2:dH:235:ASN:O	2:dH:240:GLU:HB2	2.19	0.43
2:dJ:226:LEU:HA	2:dJ:238:ASN:ND2	2.33	0.43
1:dN:95:SER:OG	1:dN:96:ASP:N	2.52	0.43
1:dQ:101:VAL:O	1:dQ:101:VAL:HG23	2.18	0.43
2:dT:177:ARG:HH11	2:dT:177:ARG:HG3	1.83	0.43
2:dU:19:HIS:NE2	2:dW:38:ILE:HD13	2.34	0.43
2:dX:237:VAL:O	2:dX:241:LYS:HB3	2.18	0.43
1:ea:99:LEU:HA	2:ek:62:GLN:NE2	2.34	0.43
2:eg:229:MET:HB3	2:eg:234:LEU:HD22	2.01	0.43
2:eh:94:ASP:OD1	2:eh:95:ASN:N	2.51	0.43
2:ei:226:LEU:HD22	2:ei:270:LEU:HD22	2.00	0.43
2:eu:18:LYS:HD2	2:eu:98:VAL:HG21	2.00	0.43
2:ew:70:ALA:HB2	2:og:9:ILE:HD11	2.01	0.43
2:ex:144:TYR:HB3	2:ex:145:PRO:CD	2.49	0.43
2:eA:107:GLY:HA3	2:eA:184:TYR:OH	2.19	0.43
1:eD:99:LEU:CA	1:ib:102:GLU:CD	2.87	0.43
2:eJ:68:MET:SD	2:gp:102:LEU:HD13	2.59	0.43
2:eJ:141:HIS:HB3	2:eJ:143:VAL:HG23	2.01	0.43
2:eJ:177:ARG:HH11	2:eJ:177:ARG:HG3	1.83	0.43
2:eJ:278:VAL:O	2:eJ:278:VAL:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eL:62:GLN:HE21	1:ib:102:GLU:HG2	1.84	0.43
2:eL:235:ASN:O	2:eL:240:GLU:HB2	2.19	0.43
2:eM:216:ARG:HB3	2:eM:219:VAL:HG12	2.00	0.43
2:eO:62:GLN:HE22	1:fe:104:CYS:HA	1.82	0.43
2:eO:107:GLY:HA3	2:eO:184:TYR:OH	2.19	0.43
1:eQ:98:LEU:HG	2:fa:62:GLN:CD	2.44	0.43
1:eR:95:SER:OG	1:eR:96:ASP:N	2.52	0.43
2:eW:98:VAL:HG12	2:eW:99:TYR:N	2.32	0.43
2:eX:77:ASN:HD21	2:eX:179:LEU:HD11	1.84	0.43
2:fb:5:THR:HG22	1:iG:87:ASP:CB	2.49	0.43
2:fb:144:TYR:HB3	2:fb:145:PRO:HD3	2.01	0.43
2:fc:107:GLY:HA3	2:fc:184:TYR:OH	2.19	0.43
2:fc:232:GLU:O	2:fc:236:GLN:HG2	2.19	0.43
1:fd:67:CYS:HA	1:fd:72:CYS:HA	2.00	0.43
1:fi:86:SER:O	1:fi:90:LEU:N	2.51	0.43
2:fq:251:ALA:HB2	2:fq:257:LEU:HD21	2.01	0.43
1:fs:60:ARG:HG2	1:nX:99:LEU:HD22	2.01	0.43
2:fy:18:LYS:HD2	2:fy:98:VAL:HG21	2.00	0.43
2:fA:59:TRP:CE3	2:fD:79:LEU:HD13	2.54	0.43
2:fA:226:LEU:HD22	2:fA:270:LEU:HD22	2.00	0.43
2:fA:262:ASN:HA	2:fA:295:VAL:HG22	2.00	0.43
2:fB:62:GLN:HE21	1:nW:102:GLU:HG2	1.84	0.43
2:fE:238:ASN:O	2:fE:241:LYS:HG2	2.18	0.43
1:fF:102:GLU:CG	1:mg:99:LEU:HD23	2.18	0.43
1:fG:104:CYS:HA	2:hk:62:GLN:HE22	1.82	0.43
2:fN:68:MET:SD	2:lU:102:LEU:HD13	2.59	0.43
2:fO:59:TRP:CE3	2:fR:79:LEU:HD13	2.54	0.43
2:fS:64:VAL:O	2:fS:64:VAL:HG23	2.19	0.43
2:fS:229:MET:O	2:fS:285:ASN:ND2	2.52	0.43
2:fS:246:MET:HA	2:fS:249:GLN:HG2	2.00	0.43
1:fU:99:LEU:HG	2:ge:62:GLN:HE22	1.83	0.43
1:fV:95:SER:OG	1:fV:96:ASP:N	2.52	0.43
2:gc:59:TRP:CE3	2:gf:79:LEU:HD13	2.54	0.43
2:gd:60:ILE:HG12	1:mc:105:THR:OG1	2.18	0.43
2:gg:246:MET:HA	2:gg:249:GLN:HG2	2.00	0.43
2:gq:226:LEU:HD22	2:gq:270:LEU:HD22	2.00	0.43
2:gq:262:ASN:HA	2:gq:295:VAL:HG22	1.99	0.43
2:gs:20:PHE:N	2:gs:20:PHE:CD1	2.87	0.43
2:gu:246:MET:HA	2:gu:249:GLN:HG2	2.00	0.43
2:gC:98:VAL:HG12	2:gC:99:TYR:N	2.33	0.43
2:gC:189:LYS:O	2:gC:190:PRO:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gG:20:PHE:N	2:gG:20:PHE:CD1	2.87	0.43
2:gI:215:SER:OG	2:gI:216:ARG:N	2.52	0.43
2:gI:229:MET:O	2:gI:285:ASN:ND2	2.52	0.43
2:gS:24:LEU:HD11	2:gU:257:LEU:HD12	2.00	0.43
2:gS:63:ARG:HE	2:gV:205:MET:CE	2.30	0.43
2:hf:94:ASP:OD1	2:hf:95:ASN:N	2.51	0.43
2:hf:198:GLU:CD	1:kA:102:GLU:HA	2.44	0.43
2:hg:63:ARG:HE	2:hj:205:MET:CE	2.30	0.43
2:hg:197:LYS:CE	1:mr:99:LEU:HA	2.48	0.43
2:hk:246:MET:HA	2:hk:249:GLN:HG2	2.00	0.43
1:hr:99:LEU:HD23	1:ku:102:GLU:CG	2.19	0.43
2:hs:18:LYS:HD2	2:hs:98:VAL:HG21	2.00	0.43
2:ht:24:LEU:HD11	2:hv:257:LEU:HD12	2.00	0.43
1:hD:87:ASP:CB	2:kU:5:THR:HG22	2.49	0.43
2:hF:189:LYS:O	2:hF:190:PRO:C	2.61	0.43
2:hF:229:MET:HB3	2:hF:234:LEU:HD22	2.01	0.43
2:hG:262:ASN:HA	2:hG:295:VAL:HG22	2.00	0.43
2:hW:113:HIS:CE1	2:hW:117:LEU:HD11	2.54	0.43
2:hY:107:GLY:HA3	2:hY:184:TYR:OH	2.19	0.43
2:ii:24:LEU:HD11	2:ik:257:LEU:HD12	2.00	0.43
2:il:5:THR:HG22	1:nx:87:ASP:CB	2.49	0.43
2:il:160:PHE:HB2	2:il:270:LEU:HD11	2.00	0.43
2:im:215:SER:OG	2:im:216:ARG:N	2.52	0.43
1:io:100:LYS:CB	1:on:100:LYS:CE	2.92	0.43
1:ir:96:ASP:OD1	2:iz:64:VAL:HG13	2.19	0.43
1:is:63:VAL:HG13	1:is:74:ASP:HB3	1.99	0.43
1:it:102:GLU:HA	2:jN:198:GLU:CD	2.44	0.43
2:iy:113:HIS:CE1	2:iy:117:LEU:HD11	2.54	0.43
2:iA:236:GLN:CB	2:iA:240:GLU:HB3	2.49	0.43
2:iJ:44:SER:OG	2:iJ:45:ASN:N	2.51	0.43
2:iN:200:ASP:N	2:iN:200:ASP:OD1	2.50	0.43
2:iO:183:ILE:HD12	2:iO:183:ILE:H	1.82	0.43
2:iY:24:LEU:HD11	2:ja:257:LEU:HD12	2.01	0.43
2:jc:215:SER:OG	2:jc:216:ARG:N	2.52	0.43
2:jm:53:PHE:O	2:jm:255:ARG:NH2	2.43	0.43
2:jn:90:ASP:O	2:lr:13:LYS:NZ	2.52	0.43
2:jQ:251:ALA:HB2	2:jQ:257:LEU:HD21	2.01	0.43
1:js:99:LEU:HA	2:jC:62:GLN:NE2	2.34	0.43
2:jz:141:HIS:HB3	2:jz:143:VAL:HG23	2.01	0.43
2:jE:215:SER:OG	2:jE:216:ARG:N	2.52	0.43
2:jE:232:GLU:O	2:jE:236:GLN:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jN:278:VAL:HG23	2:jN:278:VAL:O	2.19	0.43
2:jP:60:ILE:HG12	1:oM:105:THR:OG1	2.18	0.43
1:jV:102:GLU:HG2	2:na:62:GLN:HE21	1.84	0.43
2:kb:278:VAL:O	2:kb:278:VAL:HG23	2.19	0.43
2:kf:263:LEU:HD23	2:kf:296:GLN:HE21	1.83	0.43
2:ko:18:LYS:HD2	2:ko:98:VAL:HG21	2.00	0.43
2:kp:53:PHE:O	2:kp:255:ARG:NH2	2.43	0.43
1:kz:57:VAL:HG22	1:kz:104:CYS:H	1.83	0.43
2:kB:229:MET:HB3	2:kB:234:LEU:HD22	2.01	0.43
2:kC:77:ASN:HD21	2:kC:179:LEU:HD11	1.84	0.43
2:kC:141:HIS:HB3	2:kC:143:VAL:HG23	2.01	0.43
2:kC:198:GLU:CD	1:kO:102:GLU:HA	2.44	0.43
2:kD:179:LEU:HD22	2:kD:209:TYR:HD2	1.82	0.43
2:kD:226:LEU:HD22	2:kD:270:LEU:HD22	2.00	0.43
2:kH:107:GLY:HA3	2:kH:184:TYR:OH	2.19	0.43
2:kH:229:MET:O	2:kH:285:ASN:ND2	2.52	0.43
2:kH:236:GLN:CB	2:kH:240:GLU:HB3	2.49	0.43
1:kJ:99:LEU:HA	2:kT:62:GLN:NE2	2.34	0.43
2:kQ:102:LEU:HD13	2:mY:68:MET:SD	2.59	0.43
2:kQ:197:LYS:NZ	1:mU:98:LEU:O	2.47	0.43
2:kQ:201:GLU:O	2:kQ:202:GLN:C	2.62	0.43
1:lb:87:ASP:CB	2:nq:5:THR:HG22	2.49	0.43
2:le:68:MET:SD	2:mK:102:LEU:HD13	2.59	0.43
2:le:141:HIS:HB3	2:le:143:VAL:HG23	2.01	0.43
1:lm:95:SER:OG	1:lm:96:ASP:N	2.52	0.43
1:lp:59:VAL:HG13	1:lp:59:VAL:O	2.18	0.43
1:lB:58:PHE:CG	1:lB:101:VAL:HG21	2.54	0.43
1:lB:62:THR:HG21	1:lB:97:PRO:HB3	2.00	0.43
2:lF:46:THR:HG22	2:lF:74:GLN:CG	2.48	0.43
2:lG:278:VAL:O	2:lG:278:VAL:HG23	2.19	0.43
2:lJ:30:THR:HG21	2:lJ:298:LEU:HD13	2.01	0.43
2:lU:141:HIS:HB3	2:lU:143:VAL:HG23	2.01	0.43
2:lU:173:LEU:HA	2:lU:215:SER:HB3	2.01	0.43
2:lZ:236:GLN:CB	2:lZ:240:GLU:HB3	2.49	0.43
1:md:57:VAL:O	1:md:59:VAL:HG23	2.19	0.43
2:mk:235:ASN:O	2:mk:240:GLU:HB2	2.19	0.43
2:mv:3:ILE:HG22	2:mv:5:THR:H	1.83	0.43
2:mw:3:ILE:HD11	1:oK:58:PHE:CE1	2.53	0.43
2:mz:30:THR:HG21	2:mz:298:LEU:HD13	2.01	0.43
1:mC:67:CYS:HA	1:mC:72:CYS:HA	2.00	0.43
1:mH:59:VAL:O	1:mH:59:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mH:87:ASP:CB	2:oW:5:THR:HG22	2.49	0.43
2:mO:5:THR:HG22	1:oP:87:ASP:CB	2.49	0.43
2:mO:144:TYR:HB3	2:mO:145:PRO:HD3	2.01	0.43
2:mY:192:PHE:HZ	2:nd:196:THR:HG21	1.83	0.43
2:nc:238:ASN:O	2:nc:242:VAL:CG2	2.62	0.43
2:nd:236:GLN:CB	2:nd:240:GLU:HB3	2.49	0.43
1:ni:60:ARG:HB2	1:ni:102:GLU:O	2.18	0.43
1:nj:59:VAL:O	1:nj:59:VAL:HG13	2.18	0.43
2:nm:278:VAL:O	2:nm:278:VAL:HG23	2.19	0.43
2:nr:229:MET:O	2:nr:285:ASN:ND2	2.52	0.43
1:nt:82:ASP:OD1	1:nt:83:GLY:N	2.51	0.43
2:nA:57:ARG:NH2	2:nA:58:GLU:O	2.48	0.43
2:nD:30:THR:HG21	2:nD:298:LEU:HD13	2.01	0.43
2:nF:215:SER:OG	2:nF:216:ARG:N	2.52	0.43
1:nL:59:VAL:O	1:nL:59:VAL:HG13	2.18	0.43
2:nN:18:LYS:HD2	2:nN:98:VAL:HG21	2.00	0.43
2:nO:77:ASN:HD21	2:nO:179:LEU:HD11	1.84	0.43
2:nP:59:TRP:CE3	2:nS:79:LEU:HD13	2.54	0.43
2:nQ:235:ASN:O	2:nQ:240:GLU:HB2	2.19	0.43
2:nR:113:HIS:CE1	2:nR:117:LEU:HD11	2.54	0.43
2:nR:216:ARG:HB3	2:nR:219:VAL:HG12	2.00	0.43
2:oc:278:VAL:O	2:oc:278:VAL:HG23	2.19	0.43
2:ov:107:GLY:HA3	2:ov:184:TYR:OH	2.19	0.43
1:ox:98:LEU:HG	2:oH:62:GLN:CD	2.44	0.43
1:oz:58:PHE:CG	1:oz:101:VAL:HG21	2.54	0.43
2:oI:238:ASN:O	2:oI:242:VAL:CG2	2.62	0.43
1:oL:99:LEU:HA	2:oV:62:GLN:NE2	2.34	0.43
2:oX:215:SER:OG	2:oX:216:ARG:N	2.52	0.43
2:oX:236:GLN:CB	2:oX:240:GLU:HB3	2.49	0.43
1:oY:63:VAL:HG12	1:oY:75:LYS:H	1.82	0.43
2:pg:278:VAL:O	2:pg:278:VAL:HG23	2.19	0.43
2:pj:113:HIS:CE1	2:pj:117:LEU:HD11	2.54	0.43
1:pn:99:LEU:HA	2:px:62:GLN:NE2	2.34	0.43
2:pu:192:PHE:HZ	2:pz:196:THR:HG21	1.83	0.43
2:pv:59:TRP:CE3	2:py:79:LEU:HD13	2.54	0.43
2:px:88:ARG:O	2:px:91:ILE:HG12	2.19	0.43
2:pz:215:SER:OG	2:pz:216:ARG:N	2.52	0.43
2:pI:77:ASN:HD21	2:pI:179:LEU:HD11	1.84	0.43
2:pI:219:VAL:O	2:pI:219:VAL:CG1	2.66	0.43
2:pK:235:ASN:O	2:pK:240:GLU:HB2	2.19	0.43
2:pM:238:ASN:O	2:pM:242:VAL:CG2	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pN:232:GLU:O	2:pN:236:GLN:HG2	2.19	0.43
1:pT:101:VAL:HG23	1:pT:101:VAL:O	2.19	0.43
2:pZ:88:ARG:O	2:pZ:91:ILE:HG12	2.19	0.43
2:pZ:113:HIS:CE1	2:pZ:117:LEU:HD11	2.54	0.43
2:qb:232:GLU:O	2:qb:236:GLN:HG2	2.19	0.43
2:qb:236:GLN:HB2	2:qb:240:GLU:HB3	2.00	0.43
3:qd:61:ASP:HA	4:qn:33:SER:HG	1.69	0.43
3:qd:117:ASP:O	4:qo:6:TYR:OH	2.28	0.43
3:qf:117:ASP:O	4:qm:6:TYR:CZ	2.72	0.43
3:qg:37:LEU:HD12	3:qg:42:GLN:NE2	2.34	0.43
3:qh:37:LEU:HD12	3:qh:42:GLN:NE2	2.34	0.43
4:qj:179:THR:HG22	4:qk:247:GLY:CA	2.49	0.43
6:qq:17:LYS:CE	6:qs:81:ILE:HG21	2.49	0.43
6:qq:112:LEU:CD1	6:qs:58:LEU:HD12	2.48	0.43
6:qy:133:ASP:O	6:qy:134:TRP:HB2	2.19	0.43
6:qE:112:LEU:CD1	6:qG:58:LEU:HD12	2.48	0.43
6:qG:17:LYS:CE	6:qI:81:ILE:HG21	2.49	0.43
5:qH:229:ILE:HD13	5:qJ:232:LEU:HD21	1.85	0.43
6:qI:112:LEU:CD1	6:qK:58:LEU:HD12	2.48	0.43
5:qJ:24:ARG:O	5:qJ:25:LEU:HD22	2.18	0.43
5:qJ:235:ARG:HG2	5:qJ:255:VAL:HG13	2.01	0.43
5:qJ:399:VAL:O	5:qJ:403:LEU:HD23	2.18	0.43
1:ab:95:SER:OG	1:ab:96:ASP:N	2.52	0.42
1:ac:57:VAL:O	1:ac:59:VAL:HG23	2.19	0.42
2:ah:3:ILE:HD11	1:oY:58:PHE:CE1	2.53	0.42
2:ah:173:LEU:HA	2:ah:215:SER:HB3	2.01	0.42
2:ah:201:GLU:O	2:ah:202:GLN:C	2.62	0.42
2:al:9:ILE:HD11	2:fA:70:ALA:HB2	2.01	0.42
2:al:144:TYR:HB3	2:al:145:PRO:HD3	2.01	0.42
2:am:183:ILE:HD12	2:am:183:ILE:H	1.82	0.42
2:am:232:GLU:O	2:am:236:GLN:HG2	2.19	0.42
1:ao:99:LEU:HG	2:ax:62:GLN:HE22	1.83	0.42
1:aq:99:LEU:HD22	1:dk:60:ARG:HG2	2.01	0.42
1:as:59:VAL:O	1:as:59:VAL:HG13	2.18	0.42
2:au:3:ILE:HG22	2:au:5:THR:H	1.83	0.42
2:aw:235:ASN:O	2:aw:240:GLU:HB2	2.19	0.42
2:ay:144:TYR:HB3	2:ay:145:PRO:HD3	2.01	0.42
2:aN:238:ASN:O	2:aN:241:LYS:HG2	2.18	0.42
2:aN:251:ALA:HB2	2:aN:257:LEU:HD21	2.01	0.42
2:aW:94:ASP:OD1	2:aW:95:ASN:N	2.51	0.42
2:aW:173:LEU:HA	2:aW:215:SER:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bf:58:PHE:CG	1:bf:101:VAL:HG21	2.54	0.42
2:bj:229:MET:HB3	2:bj:234:LEU:HD22	2.01	0.42
2:bk:102:LEU:HD13	2:dr:68:MET:SD	2.59	0.42
2:bk:219:VAL:O	2:bk:219:VAL:CG1	2.66	0.42
2:bl:59:TRP:CE3	2:bo:79:LEU:HD13	2.54	0.42
2:bl:197:LYS:CE	1:iS:99:LEU:HA	2.49	0.42
2:bm:90:ASP:O	2:dq:13:LYS:NZ	2.52	0.42
2:bn:62:GLN:HE21	2:jp:197:LYS:HZ1	1.65	0.42
1:br:60:ARG:HG2	1:eS:99:LEU:HD22	2.01	0.42
1:bv:63:VAL:HG13	1:bv:74:ASP:HB3	1.99	0.42
2:by:68:MET:SD	2:dd:102:LEU:HD13	2.59	0.42
2:by:77:ASN:HD21	2:by:179:LEU:HD11	1.84	0.42
2:bA:277:VAL:O	2:bA:289:ASN:ND2	2.48	0.42
2:bD:106:MET:CE	2:bD:206:ALA:HB3	2.49	0.42
2:bD:232:GLU:O	2:bD:236:GLN:HG2	2.19	0.42
2:bP:200:ASP:N	2:bP:200:ASP:OD1	2.50	0.42
2:ce:215:SER:OG	2:ce:216:ARG:N	2.52	0.42
2:ce:251:ALA:HB2	2:ce:257:LEU:HD21	2.01	0.42
2:cp:60:ILE:HG12	1:jf:105:THR:OG1	2.18	0.42
2:cq:30:THR:HG21	2:cq:298:LEU:HD13	2.01	0.42
1:cw:86:SER:O	1:cw:90:LEU:N	2.50	0.42
2:cB:141:HIS:HB3	2:cB:143:VAL:HG23	2.01	0.42
2:cG:106:MET:CE	2:cG:206:ALA:HB3	2.49	0.42
2:cG:107:GLY:HA3	2:cG:184:TYR:OH	2.19	0.42
1:cl:60:ARG:HG2	1:pp:99:LEU:HD22	2.01	0.42
1:cK:62:THR:HG21	1:cK:97:PRO:HB3	2.00	0.42
2:dd:94:ASP:OD1	2:dd:95:ASN:N	2.51	0.42
2:dd:173:LEU:HA	2:dd:215:SER:HB3	2.01	0.42
2:de:70:ALA:HB2	2:fp:9:ILE:HD11	2.01	0.42
2:dg:88:ARG:O	2:dg:91:ILE:HG12	2.19	0.42
1:do:63:VAL:HG13	1:do:74:ASP:HB3	1.99	0.42
2:dF:2:ALA:N	1:pm:94:GLU:CG	2.83	0.42
2:dJ:144:TYR:HB3	2:dJ:145:PRO:HD3	2.01	0.42
2:dK:232:GLU:O	2:dK:236:GLN:HG2	2.19	0.42
1:dL:94:GLU:CG	2:eX:2:ALA:N	2.82	0.42
2:dT:21:GLN:O	2:dT:22:ASP:OD1	2.37	0.42
2:dY:246:MET:HA	2:dY:249:GLN:HG2	2.00	0.42
1:dZ:57:VAL:HB	1:dZ:59:VAL:HG23	1.99	0.42
1:dZ:63:VAL:HG23	1:dZ:78:GLN:H	1.84	0.42
1:ee:57:VAL:HG22	1:ee:104:CYS:H	1.83	0.42
2:eh:173:LEU:HA	2:eh:215:SER:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eh:177:ARG:HH11	2:eh:177:ARG:HG3	1.83	0.42
2:em:229:MET:O	2:em:285:ASN:ND2	2.52	0.42
2:em:232:GLU:O	2:em:236:GLN:HG2	2.19	0.42
1:eB:67:CYS:HA	1:eB:72:CYS:HA	2.00	0.42
1:eD:105:THR:OG1	2:fn:60:ILE:HG12	2.18	0.42
1:eG:57:VAL:HG22	1:eG:104:CYS:H	1.83	0.42
2:eK:59:TRP:CE3	2:eN:79:LEU:HD13	2.54	0.42
2:eN:197:LYS:HZ1	2:gU:62:GLN:HE21	1.65	0.42
2:eO:238:ASN:O	2:eO:241:LYS:HG2	2.18	0.42
2:eW:46:THR:HG22	2:eW:74:GLN:CG	2.48	0.42
2:eX:141:HIS:HB3	2:eX:143:VAL:HG23	2.01	0.42
2:eY:70:ALA:HB2	2:iN:9:ILE:HD11	2.01	0.42
2:fb:9:ILE:HD11	2:iK:70:ALA:HB2	2.01	0.42
2:fk:13:LYS:NZ	2:gF:90:ASP:O	2.52	0.42
1:fs:99:LEU:HG	2:fC:62:GLN:HE22	1.83	0.42
1:fx:102:GLU:HA	2:nm:198:GLU:CD	2.44	0.42
2:fy:3:ILE:HG22	2:fy:5:THR:H	1.83	0.42
2:fD:200:ASP:N	2:fD:200:ASP:OD1	2.50	0.42
2:fE:236:GLN:CB	2:fE:240:GLU:HB3	2.49	0.42
2:fP:62:GLN:HE21	1:gZ:102:GLU:HG2	1.84	0.42
2:fS:276:GLU:OE2	2:fS:280:VAL:HG21	2.19	0.42
2:ge:113:HIS:CE1	2:ge:117:LEU:HD11	2.54	0.42
2:gf:226:LEU:HA	2:gf:238:ASN:ND2	2.33	0.42
1:gm:63:VAL:HG13	1:gm:74:ASP:HB3	1.99	0.42
1:gm:101:VAL:HG23	1:gm:101:VAL:O	2.18	0.42
2:go:18:LYS:HD2	2:go:98:VAL:HG21	2.00	0.42
2:gq:53:PHE:O	2:gq:255:ARG:NH2	2.43	0.42
2:gq:59:TRP:CE3	2:gt:79:LEU:HD13	2.54	0.42
2:gs:30:THR:HG21	2:gs:298:LEU:HD13	2.01	0.42
2:gu:107:GLY:HA3	2:gu:184:TYR:OH	2.19	0.42
2:gC:3:ILE:HG22	2:gC:5:THR:H	1.83	0.42
2:gD:219:VAL:O	2:gD:219:VAL:CG1	2.66	0.42
2:gF:36:THR:HG22	2:gF:175:THR:HG22	2.00	0.42
1:gN:102:GLU:HG2	2:ig:62:GLN:OE1	2.02	0.42
2:gQ:229:MET:HB3	2:gQ:234:LEU:HD22	2.01	0.42
2:gR:201:GLU:O	2:gR:202:GLN:C	2.62	0.42
2:gR:205:MET:CE	2:lU:63:ARG:HD2	2.49	0.42
2:gW:238:ASN:O	2:gW:241:LYS:HG2	2.18	0.42
2:hF:77:ASN:HD21	2:hF:179:LEU:HD11	1.84	0.42
2:hG:19:HIS:NE2	2:hi:38:ILE:HD13	2.34	0.42
2:hJ:226:LEU:HA	2:hJ:238:ASN:ND2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hk:238:ASN:O	2:hk:241:LYS:HG2	2.18	0.42
1:hn:102:GLU:CD	1:kK:99:LEU:HB3	2.37	0.42
1:hp:60:ARG:HB2	1:hp:102:GLU:O	2.19	0.42
1:hq:87:ASP:CB	2:jb:5:THR:HG22	2.49	0.42
2:hv:62:GLN:HE21	2:jb:197:LYS:HZ1	1.67	0.42
2:hw:226:LEU:HA	2:hw:238:ASN:ND2	2.33	0.42
2:hx:107:GLY:HA3	2:hx:184:TYR:OH	2.19	0.42
2:hx:232:GLU:O	2:hx:236:GLN:HG2	2.19	0.42
1:hB:99:LEU:HD22	1:lN:60:ARG:HG2	2.01	0.42
2:hJ:144:TYR:HB3	2:hJ:145:PRO:HD3	2.01	0.42
2:hK:276:GLU:OE2	2:hK:280:VAL:HG21	2.19	0.42
2:hU:19:HIS:NE2	2:hW:38:ILE:HD13	2.34	0.42
2:ih:201:GLU:O	2:ih:202:GLN:C	2.62	0.42
2:ij:235:ASN:O	2:ij:240:GLU:HB2	2.19	0.42
2:ik:30:THR:HG21	2:ik:298:LEU:HD13	2.01	0.42
1:ir:60:ARG:HB2	1:ir:102:GLU:O	2.18	0.42
2:iv:75:ILE:HG21	2:iv:177:ARG:NH1	2.32	0.42
2:iy:216:ARG:HB3	2:iy:219:VAL:HG12	2.00	0.42
2:iz:5:THR:HG22	1:on:87:ASP:CB	2.49	0.42
2:iz:237:VAL:O	2:iz:241:LYS:HB3	2.18	0.42
2:iA:107:GLY:HA3	2:iA:184:TYR:OH	2.19	0.42
2:iA:232:GLU:O	2:iA:236:GLN:HG2	2.19	0.42
1:iD:102:GLU:HG2	2:pw:62:GLN:HE21	1.84	0.42
2:iJ:77:ASN:HD21	2:iJ:179:LEU:HD11	1.84	0.42
2:iM:216:ARG:HB3	2:iM:219:VAL:HG12	2.00	0.42
2:iO:236:GLN:CB	2:iO:240:GLU:HB3	2.49	0.42
1:iS:57:VAL:O	1:iS:59:VAL:HG23	2.19	0.42
2:iX:198:GLU:CD	1:jj:102:GLU:HA	2.44	0.42
2:jc:251:ALA:HB2	2:jc:257:LEU:HD21	2.01	0.42
1:jh:60:ARG:HB2	1:jh:102:GLU:O	2.19	0.42
2:jm:24:LEU:HD11	2:jo:257:LEU:HD12	2.00	0.42
1:jr:59:VAL:HG12	1:jr:61:ALA:N	2.28	0.42
1:js:98:LEU:HG	2:jC:62:GLN:CD	2.44	0.42
2:jD:160:PHE:HB2	2:jD:270:LEU:HD11	2.00	0.42
1:jG:98:LEU:HG	2:jQ:62:GLN:CD	2.44	0.42
2:jM:3:ILE:HG22	2:jM:5:THR:H	1.83	0.42
2:jO:24:LEU:HD11	2:jQ:257:LEU:HD12	2.00	0.42
2:jO:226:LEU:HD22	2:jO:270:LEU:HD22	2.00	0.42
2:jQ:113:HIS:CE1	2:jQ:117:LEU:HD11	2.54	0.42
2:jS:276:GLU:OE2	2:jS:280:VAL:HG21	2.19	0.42
1:jT:67:CYS:HA	1:jT:72:CYS:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jU:99:LEU:HG	2:ke:62:GLN:HE22	1.83	0.42
2:ka:18:LYS:HD2	2:ka:98:VAL:HG21	2.00	0.42
2:kq:235:ASN:O	2:kq:240:GLU:HB2	2.19	0.42
2:kr:30:THR:HG21	2:kr:298:LEU:HD13	2.01	0.42
2:kB:18:LYS:HD2	2:kB:98:VAL:HG21	2.00	0.42
2:kD:19:HIS:NE2	2:kF:38:ILE:HD13	2.33	0.42
1:kN:63:VAL:HG13	1:kN:74:ASP:HB3	1.99	0.42
2:kS:235:ASN:O	2:kS:240:GLU:HB2	2.19	0.42
2:le:77:ASN:HD21	2:le:179:LEU:HD11	1.84	0.42
2:lh:107:GLY:CA	2:lh:184:TYR:CZ	2.97	0.42
1:lo:96:ASP:OD1	2:lw:64:VAL:HG13	2.19	0.42
2:lr:3:ILE:HG22	2:lr:5:THR:H	1.83	0.42
2:ls:21:GLN:O	2:ls:22:ASP:OD1	2.37	0.42
2:lu:66:LYS:HB2	2:lv:84:VAL:HG12	2.01	0.42
2:lw:144:TYR:HB3	2:lw:145:PRO:HD3	2.01	0.42
2:lx:107:GLY:HA3	2:lx:184:TYR:OH	2.19	0.42
2:IG:75:ILE:HG21	2:IG:177:ARG:NH1	2.32	0.42
2:IH:226:LEU:HD22	2:IH:270:LEU:HD22	2.00	0.42
2:II:235:ASN:O	2:II:240:GLU:HB2	2.19	0.42
2:IK:144:TYR:HB3	2:IK:145:PRO:HD3	2.01	0.42
2:IL:238:ASN:O	2:IL:241:LYS:HG2	2.18	0.42
1:IP:62:THR:HG21	1:IP:97:PRO:HB3	2.00	0.42
1:IQ:60:ARG:HB2	1:IQ:102:GLU:O	2.18	0.42
2:IX:20:PHE:N	2:IX:20:PHE:CD1	2.87	0.42
1:me:96:ASP:OD1	2:mm:64:VAL:HG13	2.19	0.42
1:mf:101:VAL:HG23	1:mf:101:VAL:O	2.18	0.42
2:mh:3:ILE:HG22	2:mh:5:THR:H	1.83	0.42
2:mn:64:VAL:O	2:mn:64:VAL:HG23	2.19	0.42
1:mo:67:CYS:HA	1:mo:72:CYS:HA	2.00	0.42
1:ms:96:ASP:OD1	2:mA:64:VAL:HG13	2.19	0.42
2:mv:61:GLY:CA	1:oA:103:ARG:HD2	2.40	0.42
2:mw:21:GLN:O	2:mw:22:ASP:OD1	2.37	0.42
2:mw:141:HIS:HB3	2:mw:143:VAL:HG23	2.01	0.42
2:mw:201:GLU:O	2:mw:202:GLN:C	2.62	0.42
2:my:277:VAL:O	2:my:289:ASN:ND2	2.48	0.42
1:mD:99:LEU:HG	2:mN:62:GLN:HE22	1.83	0.42
1:mE:105:THR:OG1	2:no:60:ILE:HG12	2.18	0.42
1:mF:99:LEU:HD22	1:nf:60:ARG:HG2	2.01	0.42
2:mJ:18:LYS:HD2	2:mJ:98:VAL:HG21	2.00	0.42
2:mJ:193:THR:HG22	2:oq:193:THR:HG23	1.99	0.42
2:mP:107:GLY:HA3	2:mP:184:TYR:OH	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mQ:63:VAL:HG12	1:mQ:75:LYS:H	1.82	0.42
2:nd:183:ILE:HD12	2:nd:183:ILE:H	1.82	0.42
1:ni:102:GLU:HG2	2:oD:62:GLN:OE1	2.02	0.42
1:nj:101:VAL:HG23	1:nj:101:VAL:O	2.18	0.42
2:nm:21:GLN:O	2:nm:22:ASP:OD1	2.37	0.42
1:ns:63:VAL:HG23	1:ns:78:GLN:H	1.84	0.42
2:nz:98:VAL:HG12	2:nz:99:TYR:N	2.33	0.42
2:nE:160:PHE:HB2	2:nE:270:LEU:HD11	2.00	0.42
2:nE:226:LEU:HA	2:nE:238:ASN:ND2	2.33	0.42
2:nQ:36:THR:HG22	2:nQ:175:THR:HG22	2.00	0.42
1:nU:63:VAL:HG12	1:nU:75:LYS:H	1.82	0.42
1:nZ:57:VAL:HG22	1:nZ:104:CYS:H	1.83	0.42
2:of:113:HIS:CE1	2:of:117:LEU:HD11	2.54	0.42
2:og:237:VAL:O	2:og:241:LYS:HB3	2.18	0.42
2:op:13:LYS:NZ	2:pY:90:ASP:O	2.52	0.42
2:op:189:LYS:O	2:op:190:PRO:C	2.61	0.42
2:ot:216:ARG:HB3	2:ot:219:VAL:HG12	2.00	0.42
2:ov:236:GLN:CB	2:ov:240:GLU:HB3	2.49	0.42
2:ov:251:ALA:HB2	2:ov:257:LEU:HD21	2.01	0.42
2:ov:276:GLU:OE2	2:ov:280:VAL:HG21	2.19	0.42
1:oB:57:VAL:HG22	1:oB:104:CYS:H	1.84	0.42
2:oJ:229:MET:O	2:oJ:285:ASN:ND2	2.52	0.42
1:oL:99:LEU:HG	2:oV:62:GLN:HE22	1.83	0.42
2:oT:19:HIS:NE2	2:oV:38:ILE:HD13	2.34	0.42
2:oX:107:GLY:HA3	2:oX:184:TYR:OH	2.19	0.42
1:oY:67:CYS:HA	1:oY:72:CYS:HA	2.00	0.42
1:oZ:99:LEU:HG	2:pj:62:GLN:HE22	1.83	0.42
1:pb:57:VAL:O	1:pb:59:VAL:HG23	2.19	0.42
2:pi:36:THR:HG22	2:pi:175:THR:HG22	2.00	0.42
2:pk:144:TYR:HB3	2:pk:145:PRO:HD3	2.01	0.42
2:pk:200:ASP:OD1	2:pk:200:ASP:N	2.50	0.42
2:pl:236:GLN:CB	2:pl:240:GLU:HB3	2.49	0.42
2:pl:238:ASN:O	2:pl:241:LYS:HG2	2.18	0.42
1:pn:98:LEU:HG	2:px:62:GLN:CD	2.44	0.42
2:pt:182:LEU:H	2:pt:182:LEU:HD23	1.84	0.42
2:pu:21:GLN:O	2:pu:22:ASP:OD1	2.37	0.42
2:pu:173:LEU:HA	2:pu:215:SER:HB3	2.01	0.42
2:pv:63:ARG:HE	2:py:205:MET:CE	2.30	0.42
2:pz:236:GLN:HB2	2:pz:240:GLU:HB3	2.00	0.42
1:pF:101:VAL:O	1:pF:101:VAL:HG23	2.18	0.42
1:pP:98:LEU:HG	2:pZ:62:GLN:CD	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:pQ:95:SER:OG	1:pQ:96:ASP:N	2.52	0.42
2:pW:21:GLN:O	2:pW:22:ASP:OD1	2.37	0.42
2:qb:107:GLY:HA3	2:qb:184:TYR:OH	2.19	0.42
3:qe:37:LEU:HD12	3:qe:42:GLN:NE2	2.34	0.42
6:qw:133:ASP:O	6:qw:134:TRP:HB2	2.19	0.42
6:qG:133:ASP:O	6:qG:134:TRP:HB2	2.19	0.42
1:aa:99:LEU:HG	2:ak:62:GLN:HE22	1.83	0.42
1:ab:99:LEU:HB3	1:ng:102:GLU:CD	2.37	0.42
2:ah:75:ILE:HG21	2:ah:177:ARG:NH1	2.32	0.42
2:ah:219:VAL:O	2:ah:219:VAL:CG1	2.66	0.42
2:aj:66:LYS:HB2	2:ak:84:VAL:HG12	2.02	0.42
1:an:94:GLU:CG	2:oc:2:ALA:N	2.82	0.42
1:ao:99:LEU:HA	2:ax:62:GLN:NE2	2.34	0.42
2:au:13:LYS:NZ	2:bN:90:ASP:O	2.52	0.42
2:au:182:LEU:H	2:au:182:LEU:HD23	1.85	0.42
1:aB:99:LEU:HG	2:aL:62:GLN:HE22	1.83	0.42
1:aB:99:LEU:HA	2:aL:62:GLN:NE2	2.34	0.42
1:aC:99:LEU:HD22	1:kK:60:ARG:NE	2.12	0.42
1:aC:99:LEU:HB3	1:kK:102:GLU:CD	2.37	0.42
2:aH:229:MET:HB3	2:aH:234:LEU:HD22	2.01	0.42
2:aI:2:ALA:N	1:jd:94:GLU:CG	2.83	0.42
2:aI:205:MET:CE	2:iX:63:ARG:HD2	2.49	0.42
2:aJ:59:TRP:CE3	2:aM:79:LEU:HD13	2.54	0.42
1:aO:59:VAL:HG12	1:aO:61:ALA:N	2.28	0.42
1:aO:94:GLU:CG	2:kb:2:ALA:N	2.82	0.42
2:aV:229:MET:HB3	2:aV:234:LEU:HD22	2.01	0.42
2:aW:205:MET:CE	2:bk:63:ARG:HD2	2.49	0.42
2:aW:278:VAL:O	2:aW:278:VAL:HG23	2.19	0.42
2:aY:144:TYR:HB3	2:aY:145:PRO:CD	2.49	0.42
2:ba:263:LEU:HD23	2:ba:296:GLN:HE21	1.84	0.42
1:bc:63:VAL:HG23	1:bc:78:GLN:H	1.84	0.42
1:bg:60:ARG:HB2	1:bg:102:GLU:O	2.18	0.42
2:bm:235:ASN:O	2:bm:240:GLU:HB2	2.19	0.42
2:bn:30:THR:HG21	2:bn:298:LEU:HD13	2.01	0.42
1:bv:57:VAL:HG22	1:bv:104:CYS:H	1.84	0.42
2:by:141:HIS:HB3	2:by:143:VAL:HG23	2.01	0.42
2:by:201:GLU:O	2:by:202:GLN:C	2.62	0.42
2:by:282:ARG:NH2	2:dd:282:ARG:HH11	1.93	0.42
2:bA:66:LYS:HB2	2:bB:84:VAL:HG12	2.02	0.42
2:bB:88:ARG:O	2:bB:91:ILE:HG12	2.19	0.42
2:bD:236:GLN:CB	2:bD:240:GLU:HB3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bD:246:MET:HA	2:bD:249:GLN:HG2	2.00	0.42
2:bD:276:GLU:OE2	2:bD:280:VAL:HG21	2.19	0.42
1:bH:62:THR:HG21	1:bH:97:PRO:HB3	2.00	0.42
1:bJ:59:VAL:O	1:bJ:59:VAL:HG13	2.18	0.42
2:bL:229:MET:HB3	2:bL:234:LEU:HD22	2.01	0.42
1:bR:63:VAL:HG23	1:bR:78:GLN:H	1.84	0.42
1:bV:60:ARG:HB2	1:bV:102:GLU:O	2.18	0.42
2:bZ:102:LEU:HD13	2:iJ:68:MET:SD	2.59	0.42
2:cb:235:ASN:O	2:cb:240:GLU:HB2	2.19	0.42
2:ce:238:ASN:O	2:ce:241:LYS:HG2	2.18	0.42
1:cg:60:ARG:HG2	1:jg:99:LEU:HD22	2.01	0.42
1:ck:101:VAL:HG23	1:ck:101:VAL:O	2.19	0.42
2:cn:192:PHE:HZ	2:cs:196:THR:HG21	1.83	0.42
2:cp:90:ASP:O	2:pt:13:LYS:NZ	2.52	0.42
2:cr:144:TYR:HB3	2:cr:145:PRO:HD3	2.01	0.42
2:cs:64:VAL:O	2:cs:64:VAL:HG23	2.19	0.42
2:cs:232:GLU:O	2:cs:236:GLN:HG2	2.19	0.42
2:cs:238:ASN:O	2:cs:241:LYS:HG2	2.18	0.42
1:cv:99:LEU:HD23	1:dN:102:GLU:HB3	1.96	0.42
1:cv:102:GLU:HG2	2:pK:62:GLN:HE21	1.84	0.42
1:cx:60:ARG:HB2	1:cx:102:GLU:O	2.18	0.42
1:cx:98:LEU:O	2:pg:197:LYS:NZ	2.47	0.42
2:cG:232:GLU:O	2:cG:236:GLN:HG2	2.19	0.42
2:cR:144:TYR:HB3	2:cR:145:PRO:CD	2.50	0.42
2:cS:62:GLN:HE21	2:pM:197:LYS:HZ1	1.63	0.42
1:db:102:GLU:HA	2:eJ:198:GLU:CD	2.44	0.42
2:dc:182:LEU:H	2:dc:182:LEU:HD23	1.84	0.42
2:de:19:HIS:NE2	2:dg:38:ILE:HD13	2.34	0.42
2:dg:30:THR:HG21	2:dg:298:LEU:HD13	2.01	0.42
2:di:183:ILE:HD12	2:di:183:ILE:H	1.82	0.42
2:di:251:ALA:HB2	2:di:257:LEU:HD21	2.01	0.42
2:dr:77:ASN:HD21	2:dr:179:LEU:HD11	1.84	0.42
1:dB:102:GLU:HG2	2:eW:62:GLN:OE1	2.02	0.42
2:dF:213:VAL:HG12	2:dF:214:ARG:O	2.20	0.42
2:dI:30:THR:HG21	2:dI:298:LEU:HD13	2.01	0.42
2:dK:236:GLN:CB	2:dK:240:GLU:HB3	2.49	0.42
1:dM:98:LEU:HG	2:dW:62:GLN:CD	2.44	0.42
2:dS:229:MET:HB3	2:dS:234:LEU:HD22	2.01	0.42
2:dS:246:MET:HE2	2:dS:259:ILE:CG2	2.48	0.42
2:dT:63:ARG:HD2	2:oS:205:MET:CE	2.49	0.42
2:dT:102:LEU:HD13	2:nO:68:MET:SD	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dT:193:THR:HG23	2:nN:193:THR:HG22	2.00	0.42
2:dV:90:ASP:O	2:nN:13:LYS:NZ	2.52	0.42
2:dY:106:MET:CE	2:dY:206:ALA:HB3	2.49	0.42
2:dY:107:GLY:HA3	2:dY:184:TYR:OH	2.19	0.42
2:dY:232:GLU:O	2:dY:236:GLN:HG2	2.19	0.42
1:ec:62:THR:HG21	1:ec:97:PRO:HB3	2.00	0.42
2:eg:18:LYS:HD2	2:eg:98:VAL:HG21	2.00	0.42
2:eh:198:GLU:CD	1:et:102:GLU:HA	2.44	0.42
2:eh:213:VAL:HG12	2:eh:214:ARG:O	2.20	0.42
1:eq:57:VAL:O	1:eq:59:VAL:HG23	2.19	0.42
1:eq:99:LEU:HD22	1:oZ:60:ARG:HG2	2.01	0.42
2:ev:21:GLN:O	2:ev:22:ASP:OD1	2.37	0.42
2:ev:45:ASN:OD1	2:ev:75:ILE:HD12	2.18	0.42
2:ex:235:ASN:O	2:ex:240:GLU:HB2	2.19	0.42
2:ey:113:HIS:CE1	2:ey:117:LEU:HD11	2.54	0.42
1:eB:63:VAL:HG23	1:eB:78:GLN:H	1.84	0.42
1:eD:95:SER:OG	1:eD:96:ASP:N	2.52	0.42
2:eN:263:LEU:HD23	2:eN:296:GLN:HE21	1.83	0.42
2:eO:246:MET:HA	2:eO:249:GLN:HG2	2.00	0.42
1:eP:65:ARG:HG2	1:eP:96:ASP:HB2	2.02	0.42
1:eS:58:PHE:CG	1:eS:101:VAL:HG21	2.54	0.42
1:eU:86:SER:O	1:eU:90:LEU:N	2.51	0.42
2:eZ:36:THR:HG22	2:eZ:175:THR:HG22	2.00	0.42
1:fh:98:LEU:O	2:gD:197:LYS:NZ	2.47	0.42
2:fk:189:LYS:O	2:fk:190:PRO:C	2.61	0.42
2:fm:226:LEU:HD22	2:fm:270:LEU:HD22	2.00	0.42
2:fn:144:TYR:HB3	2:fn:145:PRO:CD	2.49	0.42
2:fp:160:PHE:HB2	2:fp:270:LEU:HD11	2.00	0.42
2:fq:106:MET:CE	2:fq:206:ALA:HB3	2.49	0.42
1:fr:65:ARG:HG2	1:fr:96:ASP:HB2	2.02	0.42
1:fu:62:THR:HG21	1:fu:97:PRO:HB3	2.00	0.42
2:fB:144:TYR:HB3	2:fB:145:PRO:CD	2.49	0.42
2:fC:88:ARG:O	2:fC:91:ILE:HG12	2.19	0.42
1:fG:100:LYS:CB	1:Kz:100:LYS:CE	2.92	0.42
1:fI:58:PHE:CG	1:fI:101:VAL:HG21	2.54	0.42
2:fP:144:TYR:HB3	2:fP:145:PRO:CD	2.49	0.42
2:fQ:113:HIS:CE1	2:fQ:117:LEU:HD11	2.54	0.42
2:FR:160:PHE:HB2	2:FR:270:LEU:HD11	2.00	0.42
1:fT:63:VAL:HG23	1:fT:78:GLN:H	1.84	0.42
1:fU:99:LEU:HA	2:ge:62:GLN:NE2	2.34	0.42
1:fW:58:PHE:CG	1:fW:101:VAL:HG21	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ga:3:ILE:HG22	2:ga:5:THR:H	1.83	0.42
2:ga:18:LYS:HD2	2:ga:98:VAL:HG21	2.00	0.42
2:gb:102:LEU:HD13	2:ih:68:MET:SD	2.59	0.42
2:gb:141:HIS:HB3	2:gb:143:VAL:HG23	2.01	0.42
2:gd:66:LYS:HB2	2:ge:84:VAL:HG12	2.02	0.42
1:gi:99:LEU:HA	2:gs:62:GLN:NE2	2.34	0.42
2:gu:229:MET:O	2:gu:285:ASN:ND2	2.52	0.42
2:gu:232:GLU:O	2:gu:236:GLN:HG2	2.19	0.42
2:gD:141:HIS:HB3	2:gD:143:VAL:HG23	2.01	0.42
2:gF:144:TYR:HB3	2:gF:145:PRO:CD	2.49	0.42
2:gI:106:MET:CE	2:gI:206:ALA:HB3	2.49	0.42
2:gI:236:GLN:CB	2:gI:240:GLU:HB3	2.49	0.42
2:gI:238:ASN:O	2:gI:241:LYS:HG2	2.18	0.42
1:gO:59:VAL:O	1:gO:59:VAL:HG13	2.18	0.42
2:gT:90:ASP:O	2:IT:13:LYS:NZ	2.52	0.42
1:gZ:99:LEU:HD23	1:mq:102:GLU:HB3	1.96	0.42
1:ha:86:SER:O	1:ha:90:LEU:N	2.50	0.42
2:hF:75:ILE:HG21	2:hF:177:ARG:NH1	2.32	0.42
2:hF:102:LEU:HD13	2:kC:68:MET:SD	2.59	0.42
1:hm:99:LEU:HG	2:hv:62:GLN:HE22	1.83	0.42
1:hB:99:LEU:HA	2:IV:197:LYS:CE	2.49	0.42
1:hC:60:ARG:HB2	1:hC:102:GLU:O	2.18	0.42
2:hF:3:ILE:HG22	2:hF:5:THR:H	1.83	0.42
2:hJ:226:LEU:HA	2:hJ:238:ASN:ND2	2.33	0.42
1:hL:67:CYS:HA	1:hL:72:CYS:HA	2.00	0.42
2:hU:13:LYS:HB3	2:hW:43:ALA:HB3	2.02	0.42
2:hV:66:LYS:HB2	2:hW:84:VAL:HG12	2.02	0.42
1:hZ:57:VAL:HB	1:hZ:59:VAL:HG23	1.99	0.42
1:ic:58:PHE:CG	1:ic:101:VAL:HG21	2.54	0.42
1:id:96:ASP:OD1	2:il:64:VAL:HG13	2.19	0.42
1:ie:101:VAL:HG23	1:ie:101:VAL:O	2.18	0.42
2:ii:70:ALA:HB2	2:nE:9:ILE:HD11	2.01	0.42
2:il:200:ASP:N	2:il:200:ASP:OD1	2.50	0.42
2:il:248:ASN:OD1	2:il:248:ASN:O	2.38	0.42
1:in:63:VAL:HG23	1:in:78:GLN:H	1.84	0.42
1:io:98:LEU:HG	2:iy:62:GLN:CD	2.44	0.42
2:iu:18:LYS:HD2	2:iu:98:VAL:HG21	2.00	0.42
2:iu:189:LYS:O	2:iu:190:PRO:C	2.61	0.42
2:iv:213:VAL:HG12	2:iv:214:ARG:O	2.20	0.42
2:iy:88:ARG:O	2:iy:91:ILE:HG12	2.19	0.42
2:iK:19:HIS:NE2	2:iM:38:ILE:HD13	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iM:88:ARG:O	2:iM:91:ILE:HG12	2.19	0.42
2:iN:89:THR:N	2:iN:200:ASP:OD2	2.36	0.42
1:iU:57:VAL:HG22	1:iU:104:CYS:H	1.84	0.42
2:jb:226:LEU:HA	2:jb:238:ASN:ND2	2.33	0.42
2:jc:64:VAL:O	2:jc:64:VAL:HG23	2.19	0.42
1:jh:96:ASP:OD1	2:jp:64:VAL:HG13	2.19	0.42
1:ji:59:VAL:O	1:ji:59:VAL:HG13	2.18	0.42
2:jy:182:LEU:HD23	2:jy:182:LEU:H	1.85	0.42
2:jz:68:MET:SD	2:le:102:LEU:HD13	2.59	0.42
2:jz:205:MET:CE	2:pW:63:ARG:HD2	2.49	0.42
2:jA:226:LEU:HD22	2:jA:270:LEU:HD22	2.00	0.42
2:jE:236:GLN:CB	2:jE:240:GLU:HB3	2.49	0.42
1:jF:58:PHE:CE1	2:le:3:ILE:HD11	2.53	0.42
2:jN:77:ASN:HD21	2:jN:179:LEU:HD11	1.84	0.42
2:jN:173:LEU:HA	2:jN:215:SER:HB3	2.01	0.42
1:jY:57:VAL:HG22	1:jY:104:CYS:H	1.84	0.42
1:jY:87:ASP:CB	2:qa:5:THR:HG22	2.49	0.42
1:jZ:100:LYS:HZ1	1:ly:100:LYS:HD3	1.77	0.42
1:jZ:102:GLU:HA	2:ls:198:GLU:CD	2.44	0.42
2:kb:173:LEU:HA	2:kb:215:SER:HB3	2.01	0.42
2:kc:70:ALA:HB2	2:qa:9:ILE:HD11	2.01	0.42
2:kf:9:ILE:HD11	2:pX:70:ALA:HB2	2.01	0.42
1:kw:95:SER:OG	1:kw:96:ASP:N	2.52	0.42
1:kw:99:LEU:HD21	1:lO:60:ARG:HH21	0.59	0.42
2:kG:144:TYR:HB3	2:kG:145:PRO:HD3	2.01	0.42
2:kP:3:ILE:HG22	2:kP:5:THR:H	1.83	0.42
2:kQ:57:ARG:NH2	2:kQ:58:GLU:O	2.48	0.42
2:kQ:75:ILE:HG21	2:kQ:177:ARG:NH1	2.32	0.42
2:kT:88:ARG:O	2:kT:91:ILE:HG12	2.19	0.42
2:kV:215:SER:OG	2:kV:216:ARG:N	2.52	0.42
2:kV:238:ASN:O	2:kV:241:LYS:HG2	2.18	0.42
1:kW:63:VAL:HG23	1:kW:78:GLN:H	1.84	0.42
1:kX:99:LEU:HG	2:lh:62:GLN:HE22	1.83	0.42
1:kZ:57:VAL:O	1:kZ:59:VAL:HG23	2.19	0.42
2:ld:229:MET:HB3	2:ld:234:LEU:HD22	2.01	0.42
1:ll:99:LEU:HG	2:lv:62:GLN:HE22	1.83	0.42
1:ln:99:LEU:HA	2:pX:197:LYS:CE	2.49	0.42
2:ls:141:HIS:HB3	2:ls:143:VAL:HG23	2.01	0.42
2:lG:77:ASN:HD21	2:lG:179:LEU:HD11	1.84	0.42
2:IL:251:ALA:HB2	2:IL:257:LEU:HD21	2.01	0.42
2:IT:18:LYS:HD2	2:IT:98:VAL:HG21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IT:229:MET:HB3	2:IT:234:LEU:HD22	2.01	0.42
1:mb:99:LEU:HA	2:ml:62:GLN:NE2	2.34	0.42
1:md:58:PHE:CG	1:md:101:VAL:HG21	2.54	0.42
1:mf:57:VAL:HG22	1:mf:104:CYS:H	1.83	0.42
2:mh:182:LEU:H	2:mh:182:LEU:HD23	1.85	0.42
2:mw:219:VAL:O	2:mw:219:VAL:CG1	2.66	0.42
2:mB:215:SER:OG	2:mB:216:ARG:N	2.52	0.42
2:mB:236:GLN:HB2	2:mB:240:GLU:HB3	2.00	0.42
2:mK:68:MET:SD	2:oq:102:LEU:HD13	2.59	0.42
1:mT:62:THR:HG21	1:mT:97:PRO:HB3	2.00	0.42
2:mY:21:GLN:O	2:mY:22:ASP:OD1	2.37	0.42
2:mY:278:VAL:O	2:mY:278:VAL:HG23	2.19	0.42
2:na:144:TYR:HB3	2:na:145:PRO:CD	2.50	0.42
2:na:235:ASN:O	2:na:240:GLU:HB2	2.19	0.42
2:nb:113:HIS:CE1	2:nb:117:LEU:HD11	2.54	0.42
2:nb:216:ARG:HB3	2:nb:219:VAL:HG12	2.00	0.42
2:nd:107:GLY:HA3	2:nd:184:TYR:OH	2.19	0.42
2:nl:18:LYS:HD2	2:nl:98:VAL:HG21	2.00	0.42
2:nl:229:MET:HB3	2:nl:234:LEU:HD22	2.01	0.42
2:nn:59:TRP:CE3	2:nq:79:LEU:HD13	2.54	0.42
2:nr:232:GLU:O	2:nr:236:GLN:HG2	2.19	0.42
2:nr:238:ASN:O	2:nr:241:LYS:HG2	2.18	0.42
1:nv:57:VAL:O	1:nv:59:VAL:HG23	2.19	0.42
1:nx:86:SER:O	1:nx:90:LEU:N	2.51	0.42
2:nz:18:LYS:HD2	2:nz:98:VAL:HG21	2.00	0.42
2:nA:77:ASN:HD21	2:nA:179:LEU:HD11	1.84	0.42
2:nA:173:LEU:HA	2:nA:215:SER:HB3	2.01	0.42
1:nH:99:LEU:HA	2:nR:62:GLN:NE2	2.34	0.42
2:nP:262:ASN:HA	2:nP:295:VAL:HG22	2.00	0.42
2:nR:30:THR:HG21	2:nR:298:LEU:HD13	2.01	0.42
1:nY:96:ASP:OD1	2:og:64:VAL:HG13	2.19	0.42
2:oc:201:GLU:O	2:oc:202:GLN:C	2.62	0.42
2:oh:246:MET:HA	2:oh:249:GLN:HG2	2.00	0.42
1:om:96:ASP:OD1	2:ou:64:VAL:HG13	2.19	0.42
2:oq:173:LEU:HA	2:oq:215:SER:HB3	2.01	0.42
2:or:59:TRP:CE3	2:ou:79:LEU:HD13	2.54	0.42
2:os:66:LYS:HB2	2:ot:84:VAL:HG12	2.02	0.42
2:ou:89:THR:N	2:ou:200:ASP:OD2	2.36	0.42
2:ov:106:MET:CE	2:ov:206:ALA:HB3	2.48	0.42
2:ov:232:GLU:O	2:ov:236:GLN:HG2	2.19	0.42
2:oD:182:LEU:H	2:oD:182:LEU:HD23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oF:19:HIS:NE2	2:oH:38:ILE:HD13	2.34	0.42
2:oH:216:ARG:HB3	2:oH:219:VAL:HG12	2.00	0.42
2:oI:226:LEU:HA	2:oI:238:ASN:ND2	2.33	0.42
2:oJ:246:MET:HA	2:oJ:249:GLN:HG2	2.00	0.42
1:oP:101:VAL:O	1:oP:101:VAL:HG23	2.18	0.42
2:oR:182:LEU:H	2:oR:182:LEU:HD23	1.84	0.42
2:oV:113:HIS:CE1	2:oV:117:LEU:HD11	2.54	0.42
2:oW:89:THR:N	2:oW:200:ASP:OD2	2.36	0.42
2:oW:200:ASP:N	2:oW:200:ASP:OD1	2.50	0.42
1:oY:65:ARG:HG2	1:oY:96:ASP:HB2	2.02	0.42
1:pc:60:ARG:HB2	1:pc:102:GLU:O	2.18	0.42
1:pc:96:ASP:OD1	2:pk:64:VAL:HG13	2.19	0.42
2:pf:182:LEU:H	2:pf:182:LEU:HD23	1.85	0.42
2:pg:21:GLN:O	2:pg:22:ASP:OD1	2.37	0.42
2:pj:20:PHE:CD1	2:pj:20:PHE:N	2.87	0.42
1:pp:62:THR:HG21	1:pp:97:PRO:HB3	2.00	0.42
2:pt:229:MET:HB3	2:pt:234:LEU:HD22	2.01	0.42
2:pu:3:ILE:HD11	1:pO:58:PHE:CE1	2.53	0.42
2:px:107:GLY:CA	2:px:184:TYR:CZ	2.97	0.42
2:pz:246:MET:HA	2:pz:249:GLN:HG2	2.00	0.42
2:pJ:13:LYS:HB3	2:pL:43:ALA:HB3	2.02	0.42
2:pV:3:ILE:HG22	2:pV:5:THR:H	1.83	0.42
2:pY:66:LYS:HB2	2:pZ:84:VAL:HG12	2.02	0.42
2:pZ:30:THR:HG21	2:pZ:298:LEU:HD13	2.01	0.42
2:qa:226:LEU:HA	2:qa:238:ASN:ND2	2.33	0.42
2:qa:248:ASN:OD1	2:qa:248:ASN:O	2.38	0.42
1:qc:63:VAL:HG23	1:qc:78:GLN:H	1.84	0.42
3:qd:31:VAL:CG1	3:qd:48:TYR:HA	2.49	0.42
3:qe:66:GLN:CA	4:qm:10:GLN:CG	2.92	0.42
3:qg:60:ALA:C	4:qk:33:SER:HG	2.15	0.42
3:qh:67:ARG:NH1	3:qi:126:ARG:O	2.52	0.42
3:qh:95:ARG:HA	3:qh:98:ALA:HB3	2.01	0.42
4:ql:87:LYS:HE3	4:qm:245:ASP:HA	1.50	0.42
4:qn:177:MET:SD	4:qn:177:MET:N	2.92	0.42
6:qu:112:LEU:CD2	6:qw:58:LEU:HD12	1.00	0.42
5:qv:380:MET:HE3	5:qv:380:MET:HB3	1.91	0.42
5:qx:24:ARG:O	5:qx:25:LEU:HD22	2.18	0.42
5:qB:235:ARG:HG2	5:qB:255:VAL:HG13	2.01	0.42
5:qF:239:TYR:CZ	6:qI:123:ASN:HB3	2.52	0.42
6:qI:83:LEU:HD11	6:qI:89:VAL:HG13	2.00	0.42
6:qK:83:LEU:HD11	6:qK:89:VAL:HG13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qL:24:ARG:O	5:qL:25:LEU:HD22	2.18	0.42
2:ah:141:HIS:CD2	2:ah:150:THR:HG1	2.31	0.42
2:am:107:GLY:HA3	2:am:184:TYR:OH	2.19	0.42
1:ap:102:GLU:CD	1:dl:99:LEU:HB3	2.37	0.42
2:az:64:VAL:O	2:az:64:VAL:HG23	2.19	0.42
2:az:236:GLN:CB	2:az:240:GLU:HB3	2.49	0.42
1:aB:101:VAL:HG22	1:aB:102:GLU:N	2.35	0.42
1:aD:62:THR:HG21	1:aD:97:PRO:HB3	2.00	0.42
2:aM:200:ASP:OD1	2:aM:200:ASP:N	2.50	0.42
1:aQ:95:SER:OG	1:aQ:96:ASP:N	2.52	0.42
2:aV:13:LYS:NZ	2:iL:90:ASP:O	2.52	0.42
2:aV:189:LYS:O	2:aV:190:PRO:C	2.61	0.42
2:aW:2:ALA:N	1:bq:94:GLU:CG	2.83	0.42
2:aW:213:VAL:HG12	2:aW:214:ARG:O	2.20	0.42
2:aY:36:THR:HG22	2:aY:175:THR:HG22	2.00	0.42
2:aY:90:ASP:O	2:bj:13:LYS:NZ	2.52	0.42
1:bc:65:ARG:HG2	1:bc:96:ASP:HB2	2.02	0.42
2:bl:13:LYS:HB3	2:bn:43:ALA:HB3	2.01	0.42
2:bm:62:GLN:HE21	1:iR:102:GLU:HG2	1.84	0.42
2:bm:197:LYS:HZ2	1:do:100:LYS:HB3	1.85	0.42
2:bp:236:GLN:CB	2:bp:240:GLU:HB3	2.49	0.42
2:by:193:THR:HG23	2:hS:193:THR:HG22	1.99	0.42
2:bA:90:ASP:O	2:hS:13:LYS:NZ	2.52	0.42
2:bD:251:ALA:HB2	2:bD:257:LEU:HD21	2.01	0.42
1:bE:63:VAL:HG23	1:bE:78:GLN:H	1.84	0.42
1:bF:60:ARG:HG2	1:gM:99:LEU:HD22	2.01	0.42
1:bF:98:LEU:HG	2:bO:62:GLN:CD	2.44	0.42
1:bG:102:GLU:HB3	1:gj:99:LEU:HD23	1.96	0.42
1:bG:105:THR:OG1	2:gr:60:ILE:HG12	2.18	0.42
2:bQ:276:GLU:OE2	2:bQ:280:VAL:HG21	2.19	0.42
2:bY:182:LEU:H	2:bY:182:LEU:HD23	1.85	0.42
2:bZ:21:GLN:O	2:bZ:22:ASP:OD1	2.37	0.42
1:cl:86:SER:O	1:cl:90:LEU:N	2.47	0.42
2:cm:246:MET:HE2	2:cm:259:ILE:CG2	2.48	0.42
2:cn:77:ASN:HD21	2:cn:179:LEU:HD11	1.84	0.42
2:cn:213:VAL:HG12	2:cn:214:ARG:O	2.20	0.42
2:co:59:TRP:CE3	2:cr:79:LEU:HD13	2.54	0.42
2:co:197:LYS:CE	1:jg:99:LEU:HA	2.49	0.42
1:ct:63:VAL:HG23	1:ct:78:GLN:H	1.84	0.42
1:cv:95:SER:OG	1:cv:96:ASP:N	2.52	0.42
1:cy:57:VAL:HG22	1:cy:104:CYS:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cB:192:PHE:HZ	2:cG:196:THR:HG21	1.83	0.42
2:cF:238:ASN:O	2:cF:242:VAL:CG2	2.62	0.42
2:cG:30:THR:HG23	2:cG:298:LEU:HD13	2.02	0.42
1:cJ:102:GLU:HG2	2:iL:62:GLN:HE21	1.84	0.42
1:cK:99:LEU:HD22	1:iC:60:ARG:HG2	2.01	0.42
2:cP:44:SER:OG	2:cP:45:ASN:N	2.51	0.42
2:cQ:280:VAL:HG22	2:cQ:282:ARG:H	1.85	0.42
2:cT:5:THR:HG22	1:pF:87:ASP:CB	2.49	0.42
2:cU:232:GLU:O	2:cU:236:GLN:HG2	2.19	0.42
1:cZ:103:ARG:HD2	2:eI:61:GLY:CA	2.40	0.42
2:dh:9:ILE:HD11	2:fm:70:ALA:HB2	2.01	0.42
1:dm:86:SER:O	1:dm:90:LEU:N	2.50	0.42
1:do:87:ASP:CB	2:ks:5:THR:HG22	2.49	0.42
2:dr:213:VAL:HG12	2:dr:214:ARG:O	2.19	0.42
2:du:20:PHE:N	2:du:20:PHE:CD1	2.87	0.42
2:dw:64:VAL:O	2:dw:64:VAL:HG23	2.19	0.42
2:dw:236:GLN:HB2	2:dw:240:GLU:HB3	2.00	0.42
2:dw:276:GLU:OE2	2:dw:280:VAL:HG21	2.19	0.42
1:dB:98:LEU:O	2:eX:197:LYS:NZ	2.47	0.42
2:dF:75:ILE:HG21	2:dF:177:ARG:NH1	2.32	0.42
2:dF:173:LEU:HA	2:dF:215:SER:HB3	2.01	0.42
2:dF:278:VAL:O	2:dF:278:VAL:HG23	2.19	0.42
2:dI:88:ARG:O	2:dI:91:ILE:HG12	2.19	0.42
1:dL:63:VAL:HG23	1:dL:78:GLN:H	1.84	0.42
1:dR:102:GLU:HA	2:oS:198:GLU:CD	2.44	0.42
2:dT:68:MET:SD	2:oS:102:LEU:HD13	2.59	0.42
2:dT:141:HIS:HB3	2:dT:143:VAL:HG23	2.01	0.42
2:dT:213:VAL:HG12	2:dT:214:ARG:O	2.20	0.42
2:dW:113:HIS:CE1	2:dW:117:LEU:HD11	2.54	0.42
1:ea:98:LEU:HG	2:ek:62:GLN:CD	2.44	0.42
1:eb:102:GLU:HG2	2:oe:62:GLN:HE21	1.84	0.42
1:ee:100:LYS:CE	1:mb:100:LYS:CB	2.92	0.42
2:ek:113:HIS:CE1	2:ek:117:LEU:HD11	2.54	0.42
2:em:238:ASN:O	2:em:241:LYS:HG2	2.18	0.42
1:es:59:VAL:O	1:es:59:VAL:HG13	2.18	0.42
2:ex:66:LYS:HB2	2:ey:84:VAL:HG12	2.02	0.42
2:ez:237:VAL:O	2:ez:241:LYS:HB3	2.18	0.42
2:eA:215:SER:OG	2:eA:216:ARG:N	2.52	0.42
1:eB:65:ARG:HG2	1:eB:96:ASP:HB2	2.02	0.42
1:eD:102:GLU:HG2	2:fn:62:GLN:HE21	1.84	0.42
1:eE:99:LEU:HA	2:fm:197:LYS:CE	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eH:102:GLU:HA	2:gp:198:GLU:CD	2.44	0.42
2:eO:215:SER:OG	2:eO:216:ARG:N	2.52	0.42
1:eQ:82:ASP:OD1	1:eQ:83:GLY:N	2.51	0.42
1:eS:57:VAL:O	1:eS:59:VAL:HG23	2.19	0.42
1:eU:100:LYS:CE	1:iC:100:LYS:CB	2.92	0.42
2:eX:21:GLN:O	2:eX:22:ASP:OD1	2.37	0.42
2:fc:215:SER:OG	2:fc:216:ARG:N	2.52	0.42
2:fc:236:GLN:HB2	2:fc:240:GLU:HB3	2.00	0.42
2:fc:246:MET:HA	2:fc:249:GLN:HG2	2.00	0.42
1:fd:63:VAL:HG23	1:fd:78:GLN:H	1.84	0.42
1:ff:95:SER:OG	1:ff:96:ASP:N	2.52	0.42
1:fh:96:ASP:OD1	2:fp:64:VAL:HG13	2.19	0.42
2:fl:213:VAL:HG12	2:fl:214:ARG:O	2.20	0.42
2:fn:66:LYS:HB2	2:fo:84:VAL:HG12	2.02	0.42
2:fq:236:GLN:HB2	2:fq:240:GLU:HB3	2.00	0.42
2:fq:238:ASN:O	2:fq:241:LYS:HG2	2.18	0.42
2:fz:44:SER:OG	2:fz:45:ASN:N	2.51	0.42
2:fz:68:MET:SD	2:nm:102:LEU:HD13	2.59	0.42
2:fz:278:VAL:O	2:fz:278:VAL:HG23	2.19	0.42
2:fE:229:MET:O	2:fE:285:ASN:ND2	2.52	0.42
1:fJ:60:ARG:HB2	1:fJ:102:GLU:O	2.18	0.42
2:fM:98:VAL:HG12	2:fM:99:TYR:N	2.32	0.42
2:fN:77:ASN:HD21	2:fN:179:LEU:HD11	1.84	0.42
2:fN:173:LEU:HA	2:fN:215:SER:HB3	2.01	0.42
2:FR:200:ASP:N	2:FR:200:ASP:OD1	2.50	0.42
2:FR:226:LEU:HA	2:FR:238:ASN:ND2	2.33	0.42
2:fS:107:GLY:HA3	2:fS:184:TYR:OH	2.19	0.42
1:fT:59:VAL:HG12	1:fT:61:ALA:N	2.28	0.42
1:fY:63:VAL:HG13	1:fY:74:ASP:HB3	1.99	0.42
2:gd:197:LYS:HZ2	1:ie:100:LYS:HB3	1.85	0.42
2:gg:107:GLY:HA3	2:gg:184:TYR:OH	2.19	0.42
2:gg:229:MET:O	2:gg:285:ASN:ND2	2.52	0.42
1:gi:101:VAL:HG22	1:gi:102:GLU:N	2.35	0.42
1:gj:102:GLU:CD	1:gL:99:LEU:CA	2.87	0.42
1:gk:62:THR:HG21	1:gk:97:PRO:HB3	2.00	0.42
1:gk:99:LEU:HA	2:gS:197:LYS:CE	2.49	0.42
2:gu:276:GLU:OE2	2:gu:280:VAL:HG21	2.19	0.42
1:gy:62:THR:HG21	1:gy:97:PRO:HB3	2.00	0.42
2:gD:44:SER:OG	2:gD:45:ASN:N	2.51	0.42
2:gI:64:VAL:O	2:gI:64:VAL:HG23	2.20	0.42
1:gN:96:ASP:OD1	2:gV:64:VAL:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gR:21:GLN:O	2:gR:22:ASP:OD1	2.37	0.42
2:gW:215:SER:OG	2:gW:216:ARG:N	2.52	0.42
2:gW:229:MET:O	2:gW:285:ASN:ND2	2.52	0.42
1:hc:87:ASP:CB	2:ol:5:THR:HG22	2.49	0.42
2:hf:213:VAL:HG12	2:hf:214:ARG:O	2.19	0.42
2:hg:24:LEU:HD11	2:hi:257:LEU:HD12	2.00	0.42
2:hh:60:ILE:HG12	1:mq:105:THR:OG1	2.18	0.42
2:hj:160:PHE:HB2	2:hj:270:LEU:HD11	2.00	0.42
2:hj:238:ASN:O	2:hj:242:VAL:CG2	2.62	0.42
2:hk:236:GLN:HB2	2:hk:240:GLU:HB3	2.00	0.42
1:hl:63:VAL:HG23	1:hl:78:GLN:H	1.84	0.42
1:hn:102:GLU:HG2	2:kS:62:GLN:HE21	1.84	0.42
1:ho:58:PHE:CG	1:ho:101:VAL:HG21	2.54	0.42
2:ht:63:ARG:HE	2:hw:205:MET:CE	2.30	0.42
2:hu:66:LYS:HB2	2:hv:84:VAL:HG12	2.02	0.42
2:hu:235:ASN:O	2:hu:240:GLU:HB2	2.19	0.42
2:hw:9:ILE:HD11	2:iY:70:ALA:HB2	2.01	0.42
2:hG:226:LEU:HD22	2:hG:270:LEU:HD22	2.00	0.42
2:hJ:160:PHE:HB2	2:hJ:270:LEU:HD11	2.00	0.42
2:hK:107:GLY:HA3	2:hK:184:TYR:OH	2.19	0.42
2:hK:236:GLN:CB	2:hK:240:GLU:HB3	2.49	0.42
2:hK:246:MET:HA	2:hK:249:GLN:HG2	2.00	0.42
2:hT:94:ASP:OD1	2:hT:95:ASN:N	2.51	0.42
2:hX:77:ASN:ND2	2:hX:209:TYR:O	2.53	0.42
2:hY:106:MET:CE	2:hY:206:ALA:HB3	2.49	0.42
2:hY:229:MET:O	2:hY:285:ASN:ND2	2.52	0.42
1:hZ:63:VAL:HG23	1:hZ:78:GLN:H	1.84	0.42
1:ie:59:VAL:O	1:ie:59:VAL:HG13	2.18	0.42
2:ih:141:HIS:HB3	2:ih:143:VAL:HG23	2.01	0.42
2:ih:278:VAL:O	2:ih:278:VAL:HG23	2.19	0.42
2:im:229:MET:O	2:im:285:ASN:ND2	2.52	0.42
1:ip:102:GLU:HG2	2:lu:62:GLN:HE21	1.84	0.42
1:is:86:SER:O	1:is:90:LEU:N	2.51	0.42
1:is:100:LYS:HB3	2:jP:197:LYS:HZ2	1.85	0.42
2:iv:184:TYR:HH	2:iv:204:PHE:HD1	1.64	0.42
2:iz:226:LEU:HA	2:iz:238:ASN:ND2	2.33	0.42
2:iA:30:THR:HG23	2:iA:298:LEU:HD13	2.02	0.42
1:iH:86:SER:O	1:iH:90:LEU:N	2.47	0.42
2:iI:224:TRP:CE3	2:iI:226:LEU:HD12	2.55	0.42
2:iM:30:THR:HG21	2:iM:298:LEU:HD13	2.01	0.42
1:iQ:98:LEU:HG	2:ja:62:GLN:CD	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iQ:99:LEU:HA	2:ja:62:GLN:NE2	2.34	0.42
1:iU:59:VAL:O	1:iU:59:VAL:HG13	2.18	0.42
2:iX:205:MET:CE	2:jl:63:ARG:HD2	2.49	0.42
2:iZ:197:LYS:HZ2	1:ji:100:LYS:HB3	1.85	0.42
2:jc:236:GLN:HB2	2:jc:240:GLU:HB3	2.00	0.42
1:jd:59:VAL:HG12	1:jd:61:ALA:N	2.28	0.42
1:jd:63:VAL:HG23	1:jd:78:GLN:H	1.84	0.42
2:jk:3:ILE:HG22	2:jk:5:THR:H	1.83	0.42
2:jl:141:HIS:HB3	2:jl:143:VAL:HG23	2.01	0.42
1:ju:62:THR:HG21	1:ju:97:PRO:HB3	2.00	0.42
2:jE:64:VAL:O	2:jE:64:VAL:HG23	2.19	0.42
1:jF:94:GLU:CG	2:le:2:ALA:N	2.83	0.42
1:jT:58:PHE:CE1	2:pI:3:ILE:HD11	2.53	0.42
1:jT:94:GLU:CG	2:pI:2:ALA:N	2.83	0.42
2:kc:262:ASN:HA	2:kc:295:VAL:HG22	1.99	0.42
2:kd:235:ASN:O	2:kd:240:GLU:HB2	2.19	0.42
1:kh:94:GLU:CG	2:ls:2:ALA:N	2.82	0.42
1:kk:57:VAL:O	1:kk:59:VAL:HG23	2.19	0.42
1:kx:57:VAL:O	1:kx:59:VAL:HG23	2.19	0.42
1:kz:59:VAL:HG13	1:kz:59:VAL:O	2.18	0.42
2:kE:235:ASN:O	2:kE:240:GLU:HB2	2.19	0.42
2:kF:88:ARG:O	2:kF:91:ILE:HG12	2.19	0.42
2:kH:215:SER:OG	2:kH:216:ARG:N	2.52	0.42
1:kJ:82:ASP:OD1	1:kJ:83:GLY:N	2.51	0.42
2:kQ:2:ALA:N	1:ne:94:GLU:CG	2.83	0.42
2:kQ:21:GLN:O	2:kQ:22:ASP:OD1	2.37	0.42
2:kS:144:TYR:HB3	2:kS:145:PRO:CD	2.49	0.42
2:kT:30:THR:HG21	2:kT:298:LEU:HD13	2.01	0.42
2:kV:236:GLN:HB2	2:kV:240:GLU:HB3	2.00	0.42
1:kX:98:LEU:HG	2:lh:62:GLN:CD	2.44	0.42
1:lb:57:VAL:HG22	1:lb:104:CYS:H	1.83	0.42
2:lh:30:THR:HG21	2:lh:298:LEU:HD13	2.01	0.42
2:li:248:ASN:OD1	2:li:248:ASN:O	2.37	0.42
2:lj:185:GLN:O	2:lj:205:MET:N	2.43	0.42
1:ln:57:VAL:O	1:ln:59:VAL:HG23	2.19	0.42
2:ls:278:VAL:O	2:ls:278:VAL:HG23	2.19	0.42
2:lx:238:ASN:O	2:lx:241:LYS:HG2	2.18	0.42
2:lG:201:GLU:O	2:lG:202:GLN:C	2.62	0.42
2:IL:106:MET:CE	2:IL:206:ALA:HB3	2.49	0.42
1:lO:95:SER:OG	1:lO:96:ASP:N	2.52	0.42
1:mb:98:LEU:HG	2:ml:62:GLN:CD	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ml:113:HIS:CE1	2:ml:117:LEU:HD11	2.54	0.42
2:mm:160:PHE:HB2	2:mm:270:LEU:HD11	2.00	0.42
2:mw:278:VAL:O	2:mw:278:VAL:HG23	2.19	0.42
2:mx:59:TRP:CE3	2:mA:79:LEU:HD13	2.54	0.42
2:mA:77:ASN:ND2	2:mA:209:TYR:O	2.53	0.42
1:mG:96:ASP:OD1	2:mO:64:VAL:HG13	2.19	0.42
1:mH:63:VAL:HG13	1:mH:74:ASP:HB3	1.99	0.42
1:mH:100:LYS:CE	1:oL:100:LYS:CB	2.92	0.42
1:mH:101:VAL:HG23	1:mH:101:VAL:O	2.19	0.42
2:mJ:229:MET:HB3	2:mJ:234:LEU:HD22	2.01	0.42
2:mN:30:THR:HG21	2:mN:298:LEU:HD13	2.01	0.42
2:na:36:THR:HG22	2:na:175:THR:HG22	2.00	0.42
2:na:66:LYS:HB2	2:nb:84:VAL:HG12	2.02	0.42
2:nd:106:MET:CE	2:nd:206:ALA:HB3	2.49	0.42
2:nd:232:GLU:O	2:nd:236:GLN:HG2	2.19	0.42
2:no:36:THR:HG22	2:no:175:THR:HG22	2.00	0.42
2:np:30:THR:HG21	2:np:298:LEU:HD13	2.01	0.42
2:nr:64:VAL:HG23	2:nr:64:VAL:O	2.19	0.42
2:nr:106:MET:CE	2:nr:206:ALA:HB3	2.49	0.42
2:nr:246:MET:HA	2:nr:249:GLN:HG2	2.00	0.42
2:nF:276:GLU:OE2	2:nF:280:VAL:HG21	2.19	0.42
1:nL:63:VAL:HG13	1:nL:74:ASP:HB3	1.99	0.42
2:nS:144:TYR:HB3	2:nS:145:PRO:HD3	2.01	0.42
2:nT:107:GLY:HA3	2:nT:184:TYR:OH	2.19	0.42
1:nZ:86:SER:O	1:nZ:90:LEU:N	2.51	0.42
2:oc:44:SER:OG	2:oc:45:ASN:N	2.51	0.42
2:od:280:VAL:HG22	2:od:282:ARG:H	1.85	0.42
2:og:160:PHE:HB2	2:og:270:LEU:HD11	2.00	0.42
2:oh:107:GLY:HA3	2:oh:184:TYR:OH	2.19	0.42
1:ol:99:LEU:HA	2:oT:197:LYS:CE	2.49	0.42
2:op:229:MET:HB3	2:op:234:LEU:HD22	2.01	0.42
2:or:19:HIS:NE2	2:ot:38:ILE:HD13	2.34	0.42
2:ot:113:HIS:CE1	2:ot:117:LEU:HD11	2.54	0.42
2:ou:144:TYR:HB3	2:ou:145:PRO:HD3	2.01	0.42
2:ou:263:LEU:HD23	2:ou:296:GLN:HE21	1.83	0.42
2:ov:64:VAL:O	2:ov:64:VAL:HG23	2.19	0.42
1:ow:94:GLU:CG	2:pW:2:ALA:N	2.83	0.42
2:oE:141:HIS:HB3	2:oE:143:VAL:HG23	2.01	0.42
2:oI:263:LEU:HD23	2:oI:296:GLN:HE21	1.83	0.42
2:oJ:238:ASN:O	2:oJ:241:LYS:HG2	2.18	0.42
2:oJ:251:ALA:HB2	2:oJ:257:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oP:86:SER:O	1:oP:90:LEU:N	2.51	0.42
2:oR:229:MET:HB3	2:oR:234:LEU:HD22	2.01	0.42
2:oW:263:LEU:HD23	2:oW:296:GLN:HE21	1.83	0.42
1:oY:63:VAL:HG23	1:oY:78:GLN:H	1.84	0.42
1:oZ:98:LEU:HG	2:pj:62:GLN:CD	2.44	0.42
2:pi:235:ASN:O	2:pi:240:GLU:HB2	2.19	0.42
2:pl:251:ALA:HB2	2:pl:257:LEU:HD21	2.01	0.42
2:pt:3:ILE:HG22	2:pt:5:THR:H	1.83	0.42
2:pw:235:ASN:O	2:pw:240:GLU:HB2	2.19	0.42
2:pz:276:GLU:OE2	2:pz:280:VAL:HG21	2.19	0.42
2:pM:226:LEU:HA	2:pM:238:ASN:ND2	2.33	0.42
2:pN:106:MET:CE	2:pN:206:ALA:HB3	2.49	0.42
1:pT:59:VAL:O	1:pT:59:VAL:HG13	2.18	0.42
2:pV:229:MET:HB3	2:pV:234:LEU:HD22	2.01	0.42
2:pW:141:HIS:HB3	2:pW:143:VAL:HG23	2.01	0.42
2:pY:277:VAL:O	2:pY:289:ASN:ND2	2.48	0.42
2:qb:64:VAL:O	2:qb:64:VAL:HG23	2.19	0.42
3:qe:136:TYR:O	3:qe:137:LEU:HG	2.19	0.42
3:qg:66:GLN:CA	4:qk:8:TYR:HD2	2.32	0.42
3:qh:31:VAL:CG1	3:qh:48:TYR:HA	2.49	0.42
3:qh:66:GLN:CG	4:qj:8:TYR:O	2.68	0.42
3:qi:95:ARG:HA	3:qi:98:ALA:HB3	2.01	0.42
4:qk:177:MET:SD	4:qk:177:MET:N	2.92	0.42
4:qm:177:MET:SD	4:qm:177:MET:N	2.92	0.42
5:qp:114:LEU:CD2	5:qL:96:ARG:CD	2.81	0.42
6:qs:17:LYS:CE	6:qu:81:ILE:HG21	2.49	0.42
5:qv:235:ARG:HG2	5:qv:255:VAL:HG13	2.01	0.42
6:qE:17:LYS:CE	6:qG:81:ILE:HG21	2.49	0.42
6:qG:83:LEU:HD11	6:qG:89:VAL:HG13	2.00	0.42
5:qH:248:LYS:HE2	6:qK:123:ASN:HB3	1.67	0.42
5:qJ:241:PRO:N	5:qL:268:GLU:OE2	2.51	0.42
1:aa:104:CYS:HA	2:nr:62:GLN:HE22	1.82	0.42
2:ah:141:HIS:HB3	2:ah:143:VAL:HG23	2.01	0.42
2:al:263:LEU:HD23	2:al:296:GLN:HE21	1.83	0.42
1:an:65:ARG:HG2	1:an:96:ASP:HB2	2.02	0.42
1:ao:98:LEU:HG	2:ax:62:GLN:CD	2.44	0.42
1:aq:99:LEU:HA	2:ds:197:LYS:CE	2.49	0.42
1:ar:96:ASP:OD1	2:ay:64:VAL:HG13	2.19	0.42
2:av:19:HIS:NE2	2:ax:38:ILE:HD13	2.34	0.42
2:ay:9:ILE:HD11	2:gq:70:ALA:HB2	2.01	0.42
1:aA:58:PHE:HB3	1:aA:101:VAL:HG13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aB:98:LEU:HG	2:aL:62:GLN:CD	2.44	0.42
1:aD:57:VAL:O	1:aD:59:VAL:HG23	2.19	0.42
1:aE:60:ARG:HB2	1:aE:102:GLU:O	2.19	0.42
2:aL:88:ARG:O	2:aL:91:ILE:HG12	2.19	0.42
2:aM:248:ASN:OD1	2:aM:248:ASN:O	2.37	0.42
2:aN:232:GLU:O	2:aN:236:GLN:HG2	2.19	0.42
1:aO:67:CYS:HA	1:aO:72:CYS:HA	2.00	0.42
1:aP:99:LEU:HA	2:aZ:62:GLN:NE2	2.34	0.42
2:aV:182:LEU:H	2:aV:182:LEU:HD23	1.84	0.42
2:aW:193:THR:HG23	2:bj:193:THR:HG22	2.00	0.42
2:aY:197:LYS:HZ2	1:bh:100:LYS:HB3	1.85	0.42
2:bb:64:VAL:O	2:bb:64:VAL:HG23	2.19	0.42
2:bb:236:GLN:HB2	2:bb:240:GLU:HB3	2.00	0.42
2:by:21:GLN:O	2:by:22:ASP:OD1	2.37	0.42
2:bz:19:HIS:NE2	2:bB:38:ILE:HD13	2.34	0.42
2:bC:9:ILE:HD11	2:dG:70:ALA:HB2	2.01	0.42
2:bD:236:GLN:HB2	2:bD:240:GLU:HB3	2.00	0.42
1:bG:102:GLU:HG2	2:gr:62:GLN:HE21	1.84	0.42
1:bI:96:ASP:OD1	2:bP:64:VAL:HG13	2.19	0.42
2:bO:113:HIS:CE1	2:bO:117:LEU:HD11	2.54	0.42
2:bZ:63:ARG:HD2	2:dr:205:MET:CE	2.49	0.42
2:bZ:68:MET:SD	2:dr:102:LEU:HD13	2.59	0.42
2:bZ:177:ARG:HH11	2:bZ:177:ARG:HG3	1.83	0.42
2:bZ:213:VAL:HG12	2:bZ:214:ARG:O	2.20	0.42
2:ca:63:ARG:HE	2:cd:205:MET:CE	2.30	0.42
2:ca:280:VAL:HG22	2:ca:282:ARG:H	1.85	0.42
2:cd:5:THR:HG22	1:hQ:87:ASP:CB	2.49	0.42
2:cm:224:TRP:CE3	2:cm:226:LEU:HD12	2.55	0.42
2:cn:198:GLU:CD	1:ps:102:GLU:HA	2.44	0.42
2:cs:236:GLN:CB	2:cs:240:GLU:HB3	2.49	0.42
1:ct:58:PHE:HB3	1:ct:101:VAL:HG13	2.02	0.42
1:cw:99:LEU:HA	2:pJ:197:LYS:CE	2.49	0.42
2:cA:13:LYS:NZ	2:pi:90:ASP:O	2.52	0.42
2:cF:281:GLN:O	2:cF:289:ASN:N	2.53	0.42
2:cP:77:ASN:HD21	2:cP:179:LEU:HD11	1.84	0.42
2:cQ:226:LEU:HD22	2:cQ:270:LEU:HD22	2.00	0.42
2:cU:30:THR:HG23	2:cU:298:LEU:HD13	2.02	0.42
2:dc:229:MET:HB3	2:dc:234:LEU:HD22	2.01	0.42
2:dh:144:TYR:HB3	2:dh:145:PRO:HD3	2.01	0.42
2:di:30:THR:HG23	2:di:298:LEU:HD13	2.02	0.42
2:di:215:SER:OG	2:di:216:ARG:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dx:67:CYS:HA	1:dx:72:CYS:HA	2.00	0.42
1:dz:105:THR:OG1	2:gF:60:ILE:HG12	2.18	0.42
2:dE:224:TRP:CE3	2:dE:226:LEU:HD12	2.55	0.42
2:dJ:281:GLN:O	2:dJ:289:ASN:N	2.53	0.42
2:dK:215:SER:OG	2:dK:216:ARG:N	2.52	0.42
2:dS:13:LYS:NZ	2:oU:90:ASP:O	2.52	0.42
2:dT:197:LYS:NZ	1:nK:98:LEU:O	2.47	0.42
2:dT:201:GLU:O	2:dT:202:GLN:C	2.62	0.42
2:dV:66:LYS:HB2	2:dW:84:VAL:HG12	2.02	0.42
2:dX:77:ASN:ND2	2:dX:209:TYR:O	2.53	0.42
2:dY:229:MET:O	2:dY:285:ASN:ND2	2.52	0.42
1:ed:98:LEU:O	2:nA:197:LYS:NZ	2.47	0.42
2:eg:182:LEU:HD23	2:eg:182:LEU:H	1.85	0.42
2:eh:102:LEU:HD13	2:ev:68:MET:SD	2.59	0.42
2:eh:141:HIS:HB3	2:eh:143:VAL:HG23	2.01	0.42
2:ej:36:THR:HG22	2:ej:175:THR:HG22	2.00	0.42
2:em:30:THR:HG23	2:em:298:LEU:HD13	2.02	0.42
1:eq:62:THR:HG21	1:eq:97:PRO:HB3	2.00	0.42
2:ey:20:PHE:N	2:ey:20:PHE:CD1	2.87	0.42
1:eC:98:LEU:HG	2:eM:62:GLN:CD	2.44	0.42
1:eF:96:ASP:OD1	2:eN:64:VAL:HG13	2.19	0.42
1:eG:101:VAL:O	1:eG:101:VAL:HG23	2.18	0.42
2:eI:13:LYS:NZ	2:gr:90:ASP:O	2.52	0.42
2:eI:229:MET:HB3	2:eI:234:LEU:HD22	2.01	0.42
2:eK:226:LEU:HD22	2:eK:270:LEU:HD22	2.00	0.42
2:eN:9:ILE:HD11	2:gS:70:ALA:HB2	2.01	0.42
2:eN:248:ASN:OD1	2:eN:248:ASN:O	2.38	0.42
2:eO:236:GLN:CB	2:eO:240:GLU:HB3	2.49	0.42
2:eW:18:LYS:HD2	2:eW:98:VAL:HG21	2.00	0.42
2:eX:173:LEU:HA	2:eX:215:SER:HB3	2.00	0.42
2:eX:213:VAL:HG12	2:eX:214:ARG:O	2.20	0.42
2:fb:281:GLN:O	2:fb:289:ASN:N	2.53	0.42
2:fc:30:THR:HG23	2:fc:298:LEU:HD13	2.02	0.42
1:fd:57:VAL:O	1:fd:79:GLY:O	2.38	0.42
1:fd:65:ARG:HG2	1:fd:96:ASP:HB2	2.02	0.42
1:fe:99:LEU:HA	2:fo:62:GLN:NE2	2.34	0.42
1:fg:62:THR:HG21	1:fg:97:PRO:HB3	2.00	0.42
1:fi:59:VAL:O	1:fi:59:VAL:HG13	2.18	0.42
2:fk:3:ILE:HG22	2:fk:5:THR:H	1.83	0.42
2:fl:177:ARG:HH11	2:fl:177:ARG:HG3	1.83	0.42
2:fl:282:ARG:NH2	2:gD:282:ARG:HH11	1.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fp:144:TYR:HB3	2:fp:145:PRO:HD3	2.01	0.42
1:fs:101:VAL:HG22	1:fs:102:GLU:N	2.35	0.42
1:fv:60:ARG:HB2	1:fv:102:GLU:O	2.19	0.42
2:fz:2:ALA:N	1:mo:94:GLU:CG	2.83	0.42
2:fz:201:GLU:O	2:fz:202:GLN:C	2.62	0.42
2:fE:30:THR:HG23	2:fE:298:LEU:HD13	2.02	0.42
2:fE:232:GLU:O	2:fE:236:GLN:HG2	2.19	0.42
1:fG:99:LEU:HA	2:fQ:62:GLN:NE2	2.34	0.42
1:fH:95:SER:OG	1:fH:96:ASP:N	2.52	0.42
1:fH:99:LEU:HD23	1:gZ:102:GLU:HB3	1.96	0.42
1:fI:62:THR:HG21	1:fI:97:PRO:HB3	2.00	0.42
2:fN:192:PHE:HZ	2:fS:196:THR:HG21	1.83	0.42
2:fN:201:GLU:O	2:fN:202:GLN:C	2.62	0.42
2:fR:281:GLN:O	2:fR:289:ASN:N	2.53	0.42
2:ga:182:LEU:H	2:ga:182:LEU:HD23	1.85	0.42
2:gb:201:GLU:O	2:gb:202:GLN:C	2.62	0.42
2:gd:62:GLN:HE21	1:mc:102:GLU:HG2	1.84	0.42
2:gF:160:PHE:HB2	2:gF:270:LEU:HD11	2.00	0.42
2:gg:30:THR:HG23	2:gg:298:LEU:HD13	2.02	0.42
1:gk:57:VAL:O	1:gk:59:VAL:HG23	2.19	0.42
2:go:3:ILE:HG22	2:go:5:THR:H	1.83	0.42
2:gp:173:LEU:HA	2:gp:215:SER:HB3	2.01	0.42
1:gZ:60:ARG:HB2	1:gZ:102:GLU:O	2.18	0.42
1:gA:57:VAL:HG22	1:gA:104:CYS:H	1.84	0.42
2:gC:18:LYS:HD2	2:gC:98:VAL:HG21	2.00	0.42
2:gF:235:ASN:O	2:gF:240:GLU:HB2	2.19	0.42
2:gG:62:GLN:HE21	2:pk:197:LYS:HZ1	1.64	0.42
2:gH:263:LEU:HD23	2:gH:296:GLN:HE21	1.84	0.42
2:gH:281:GLN:O	2:gH:289:ASN:N	2.53	0.42
2:gR:2:ALA:N	1:ma:94:GLU:CG	2.83	0.42
2:gR:57:ARG:NH2	2:gR:58:GLU:O	2.48	0.42
2:gT:235:ASN:O	2:gT:240:GLU:HB2	2.19	0.42
2:gU:113:HIS:CE1	2:gU:117:LEU:HD11	2.54	0.42
2:gW:64:VAL:HG23	2:gW:64:VAL:O	2.19	0.42
1:hc:63:VAL:HG13	1:hc:74:ASP:HB3	1.99	0.42
2:hF:141:HIS:HB3	2:hF:143:VAL:HG23	2.01	0.42
2:hj:248:ASN:OD1	2:hj:248:ASN:O	2.38	0.42
2:hk:64:VAL:O	2:hk:64:VAL:HG23	2.19	0.42
1:hr:86:SER:O	1:hr:90:LEU:N	2.47	0.42
2:hX:215:SER:OG	2:hX:216:ARG:N	2.52	0.42
1:hB:62:THR:HG21	1:hB:97:PRO:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hK:106:MET:CE	2:hK:206:ALA:HB3	2.49	0.42
2:hK:184:TYR:CE2	5:qt:178:PRO:CA	3.02	0.42
1:hL:65:ARG:HG2	1:hL:96:ASP:HB2	2.02	0.42
2:hT:141:HIS:HB3	2:hT:143:VAL:HG23	2.01	0.42
2:hT:191:SER:CB	2:hY:191:SER:HB3	2.50	0.42
2:ih:177:ARG:HH11	2:ih:177:ARG:HG3	1.83	0.42
2:ik:216:ARG:HB3	2:ik:219:VAL:HG12	2.00	0.42
2:il:281:GLN:O	2:il:289:ASN:N	2.53	0.42
2:im:107:GLY:HA3	2:im:184:TYR:OH	2.19	0.42
1:is:87:ASP:CB	2:ou:5:THR:HG22	2.49	0.42
2:iv:63:ARG:HD2	2:jN:205:MET:CE	2.49	0.42
2:iv:201:GLU:O	2:iv:202:GLN:C	2.62	0.42
2:iz:248:ASN:OD1	2:iz:248:ASN:O	2.38	0.42
1:iG:101:VAL:HG23	1:iG:101:VAL:O	2.18	0.42
2:iN:144:TYR:HB3	2:iN:145:PRO:HD3	2.01	0.42
1:iP:65:ARG:HG2	1:iP:96:ASP:HB2	2.01	0.42
1:iQ:60:ARG:HG2	1:kk:99:LEU:HD22	2.01	0.42
1:iQ:99:LEU:HG	2:ja:62:GLN:HE22	1.83	0.42
1:iR:99:LEU:HD23	1:kj:102:GLU:HB3	1.96	0.42
2:iX:201:GLU:O	2:iX:202:GLN:C	2.62	0.42
2:iX:213:VAL:HG12	2:iX:214:ARG:O	2.20	0.42
2:iZ:144:TYR:HB3	2:iZ:145:PRO:CD	2.49	0.42
2:jc:232:GLU:O	2:jc:236:GLN:HG2	2.19	0.42
1:je:101:VAL:HG22	1:je:102:GLU:N	2.35	0.42
1:jg:57:VAL:O	1:jg:59:VAL:HG23	2.19	0.42
2:jn:144:TYR:HB3	2:jn:145:PRO:CD	2.50	0.42
2:jQ:236:GLN:CB	2:jQ:240:GLU:HB3	2.49	0.42
2:jy:229:MET:HB3	2:jy:234:LEU:HD22	2.01	0.42
2:jz:205:MET:CE	2:pW:63:ARG:NE	2.74	0.42
2:jA:197:LYS:CE	1:mT:99:LEU:HA	2.48	0.42
2:jB:62:GLN:HE21	1:mS:102:GLU:HG2	1.84	0.42
2:jD:5:THR:HG22	1:lD:87:ASP:CB	2.49	0.42
1:jG:101:VAL:HG22	1:jG:102:GLU:N	2.35	0.42
2:jM:13:LYS:NZ	2:pK:90:ASP:O	2.52	0.42
2:jN:282:ARG:NH2	2:pI:282:ARG:HH11	1.93	0.42
2:jP:148:ASP:OD1	2:jP:149:GLY:N	2.53	0.42
2:jR:248:ASN:OD1	2:jR:248:ASN:O	2.38	0.42
2:jS:30:THR:HG23	2:jS:298:LEU:HD13	2.02	0.42
2:jS:215:SER:OG	2:jS:216:ARG:N	2.52	0.42
1:jV:105:THR:OG1	2:na:60:ILE:HG12	2.18	0.42
1:jX:96:ASP:OD1	2:kf:64:VAL:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kb:213:VAL:HG12	2:kb:214:ARG:O	2.20	0.42
2:kc:59:TRP:CE3	2:kf:79:LEU:HD13	2.54	0.42
2:kd:144:TYR:HB3	2:kd:145:PRO:CD	2.50	0.42
2:ke:113:HIS:CE1	2:ke:117:LEU:HD11	2.54	0.42
2:kf:5:THR:HG22	1:pT:87:ASP:CB	2.49	0.42
1:kl:96:ASP:OD1	2:ks:64:VAL:HG13	2.19	0.42
2:ko:182:LEU:H	2:ko:182:LEU:HD23	1.85	0.42
2:kr:113:HIS:CE1	2:kr:117:LEU:HD11	2.54	0.42
2:ks:226:LEU:HA	2:ks:238:ASN:ND2	2.33	0.42
2:kt:236:GLN:CB	2:kt:240:GLU:HB3	2.49	0.42
2:kt:276:GLU:OE2	2:kt:280:VAL:HG21	2.19	0.42
2:kB:224:TRP:CE3	2:kB:226:LEU:HD12	2.55	0.42
2:kF:30:THR:HG21	2:kF:298:LEU:HD13	2.01	0.42
2:kF:113:HIS:CE1	2:kF:117:LEU:HD11	2.54	0.42
2:kH:232:GLU:O	2:kH:236:GLN:HG2	2.19	0.42
2:kH:238:ASN:O	2:kH:241:LYS:HG2	2.18	0.42
2:kH:276:GLU:OE2	2:kH:280:VAL:HG21	2.19	0.42
1:kI:58:PHE:HB3	1:kI:101:VAL:HG13	2.02	0.42
1:kI:63:VAL:HG23	1:kI:78:GLN:H	1.84	0.42
1:kI:67:CYS:HA	1:kI:72:CYS:HA	2.00	0.42
1:la:96:ASP:OD1	2:li:64:VAL:HG13	2.19	0.42
2:ld:3:ILE:HG22	2:ld:5:THR:H	1.83	0.42
2:li:5:THR:HG22	1:nj:87:ASP:CB	2.49	0.42
2:lj:229:MET:O	2:lj:285:ASN:ND2	2.52	0.42
1:lk:63:VAL:HG23	1:lk:78:GLN:H	1.84	0.42
1:lA:95:SER:OG	1:lA:96:ASP:N	2.52	0.42
1:lA:102:GLU:CD	1:oy:99:LEU:HB3	2.37	0.42
1:lA:105:THR:OG1	2:oG:60:ILE:HG12	2.18	0.42
2:lF:224:TRP:CE3	2:lF:226:LEU:HD12	2.55	0.42
2:lG:173:LEU:HA	2:lG:215:SER:HB3	2.01	0.42
2:lG:213:VAL:HG12	2:lG:214:ARG:O	2.20	0.42
2:lI:66:LYS:HB2	2:lJ:84:VAL:HG12	2.01	0.42
1:lR:63:VAL:HG13	1:lR:74:ASP:HB3	1.99	0.42
2:lT:189:LYS:O	2:lT:190:PRO:C	2.61	0.42
2:lU:77:ASN:HD21	2:lU:179:LEU:HD11	1.84	0.42
2:lV:226:LEU:HD22	2:lV:270:LEU:HD22	2.00	0.42
2:lX:88:ARG:O	2:lX:91:ILE:HG12	2.19	0.42
1:ma:65:ARG:HG2	1:ma:96:ASP:HB2	2.02	0.42
2:mj:19:HIS:NE2	2:ml:38:ILE:HD13	2.34	0.42
2:mj:24:LEU:HD11	2:ml:257:LEU:HD12	2.00	0.42
2:mj:59:TRP:CE3	2:mm:79:LEU:HD13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mk:226:LEU:HD21	2:mk:273:LYS:HB3	1.99	0.42
1:mt:59:VAL:O	1:mt:59:VAL:HG13	2.18	0.42
1:mt:101:VAL:HG23	1:mt:101:VAL:O	2.19	0.42
2:mw:213:VAL:HG12	2:mw:214:ARG:O	2.20	0.42
2:my:66:LYS:HB2	2:mz:84:VAL:HG12	2.02	0.42
2:my:90:ASP:O	2:od:13:LYS:NZ	2.52	0.42
2:mB:232:GLU:O	2:mB:236:GLN:HG2	2.19	0.42
2:mB:246:MET:HA	2:mB:249:GLN:HG2	2.00	0.42
1:mC:63:VAL:HG23	1:mC:78:GLN:H	1.84	0.42
1:mD:101:VAL:HG22	1:mD:102:GLU:N	2.35	0.42
2:mJ:224:TRP:CE3	2:mJ:226:LEU:HD12	2.55	0.42
2:mK:173:LEU:HA	2:mK:215:SER:HB3	2.01	0.42
2:mK:177:ARG:HH11	2:mK:177:ARG:HG3	1.83	0.42
2:mP:106:MET:CE	2:mP:206:ALA:HB3	2.49	0.42
1:mR:99:LEU:HG	2:nb:62:GLN:HE22	1.83	0.42
2:mX:246:MET:HE2	2:mX:259:ILE:CG2	2.48	0.42
2:nc:160:PHE:HB2	2:nc:270:LEU:HD11	2.00	0.42
2:nc:226:LEU:HA	2:nc:238:ASN:ND2	2.33	0.42
1:nf:82:ASP:OD1	1:nf:83:GLY:N	2.51	0.42
2:nm:201:GLU:O	2:nm:202:GLN:C	2.62	0.42
2:np:88:ARG:O	2:np:91:ILE:HG12	2.19	0.42
2:nr:215:SER:OG	2:nr:216:ARG:N	2.52	0.42
1:ns:94:GLU:CG	2:oe:2:ALA:N	2.83	0.42
2:nC:235:ASN:O	2:nC:240:GLU:HB2	2.19	0.42
2:nE:248:ASN:OD1	2:nE:248:ASN:O	2.38	0.42
1:nG:63:VAL:HG23	1:nG:78:GLN:H	1.84	0.42
2:nO:21:GLN:O	2:nO:22:ASP:OD1	2.37	0.42
2:oc:44:SER:OG	2:oc:75:ILE:O	2.21	0.42
2:od:63:ARG:HE	2:og:205:MET:CE	2.30	0.42
2:og:226:LEU:HA	2:og:238:ASN:ND2	2.33	0.42
2:oh:106:MET:CE	2:oh:206:ALA:HB3	2.49	0.42
1:oj:99:LEU:HA	2:ot:62:GLN:NE2	2.34	0.42
2:ou:248:ASN:OD1	2:ou:248:ASN:O	2.38	0.42
1:ow:58:PHE:HB3	1:ow:101:VAL:HG13	2.02	0.42
1:oB:101:VAL:O	1:oB:101:VAL:HG23	2.19	0.42
2:oI:248:ASN:OD1	2:oI:248:ASN:O	2.38	0.42
2:oJ:232:GLU:O	2:oJ:236:GLN:HG2	2.19	0.42
2:oS:77:ASN:HD21	2:oS:179:LEU:HD11	1.84	0.42
2:oS:278:VAL:O	2:oS:278:VAL:HG23	2.19	0.42
2:oU:144:TYR:HB3	2:oU:145:PRO:CD	2.49	0.42
1:pb:62:THR:HG21	1:pb:97:PRO:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:pd:86:SER:O	1:pd:90:LEU:N	2.51	0.42
2:ph:13:LYS:HB3	2:pj:43:ALA:HB3	2.02	0.42
2:pl:236:GLN:HB2	2:pl:240:GLU:HB3	2.00	0.42
2:pu:57:ARG:NH2	2:pu:58:GLU:O	2.48	0.42
2:pu:205:MET:CE	2:pl:63:ARG:HD2	2.49	0.42
2:pw:90:ASP:O	2:pH:13:LYS:NZ	2.52	0.42
2:pw:144:TYR:HB3	2:pw:145:PRO:CD	2.49	0.42
1:pA:65:ARG:HG2	1:pA:96:ASP:HB2	2.01	0.42
1:pE:60:ARG:HB2	1:pE:102:GLU:O	2.19	0.42
2:pH:229:MET:HB3	2:pH:234:LEU:HD22	2.01	0.42
2:pI:44:SER:OG	2:pI:45:ASN:N	2.51	0.42
2:pN:251:ALA:HB2	2:pN:257:LEU:HD21	2.01	0.42
2:pV:18:LYS:HD2	2:pV:98:VAL:HG21	2.00	0.42
2:qa:77:ASN:ND2	2:qa:209:TYR:O	2.53	0.42
2:qa:281:GLN:O	2:qa:289:ASN:N	2.53	0.42
2:qb:236:GLN:CB	2:qb:240:GLU:HB3	2.49	0.42
3:qd:66:GLN:CA	4:qn:8:TYR:C	2.92	0.42
3:qf:31:VAL:CG1	3:qf:48:TYR:HA	2.49	0.42
3:qh:65:GLY:O	4:qj:8:TYR:CD2	2.72	0.42
5:qv:248:LYS:HE2	6:qy:123:ASN:HB3	1.67	0.42
1:ac:62:THR:HG21	1:ac:97:PRO:HB3	2.00	0.42
2:ag:224:TRP:CE3	2:ag:226:LEU:HD12	2.55	0.42
2:al:281:GLN:O	2:al:289:ASN:N	2.53	0.42
2:am:30:THR:HG23	2:am:298:LEU:HD13	2.02	0.42
1:at:99:LEU:HG	1:bR:102:GLU:OE2	1.74	0.42
2:aw:66:LYS:HB2	2:ax:84:VAL:HG12	2.02	0.42
2:ay:5:THR:HG22	1:gm:87:ASP:CB	2.49	0.42
1:aA:65:ARG:HG2	1:aA:96:ASP:HB2	2.02	0.42
1:aG:100:LYS:NZ	1:kh:100:LYS:CD	2.71	0.42
2:aH:18:LYS:HD2	2:aH:98:VAL:HG21	2.00	0.42
2:aI:173:LEU:HA	2:aI:215:SER:HB3	2.01	0.42
2:aK:90:ASP:O	2:iW:13:LYS:NZ	2.52	0.42
2:aK:230:SER:O	2:aK:231:THR:HG22	2.20	0.42
2:aN:236:GLN:HB2	2:aN:240:GLU:HB3	2.00	0.42
1:aR:62:THR:HG21	1:aR:97:PRO:HB3	2.00	0.42
1:aT:102:GLU:CG	1:pn:99:LEU:HD11	2.42	0.42
2:aW:77:ASN:HD21	2:aW:179:LEU:HD11	1.84	0.42
2:aX:24:LEU:HD11	2:aZ:257:LEU:HD12	2.00	0.42
2:aY:62:GLN:HE21	1:ch:102:GLU:HG2	1.84	0.42
2:aY:148:ASP:OD1	2:aY:149:GLY:N	2.53	0.42
2:aZ:88:ARG:O	2:aZ:91:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ba:144:TYR:HB3	2:ba:145:PRO:HD3	2.01	0.42
2:bb:122:LEU:HD23	2:bb:122:LEU:C	2.45	0.42
1:bd:98:LEU:HG	2:bn:62:GLN:CD	2.44	0.42
2:bk:44:SER:OG	2:bk:45:ASN:N	2.51	0.42
2:bk:173:LEU:HA	2:bk:215:SER:HB3	2.01	0.42
2:bk:177:ARG:HH11	2:bk:177:ARG:HG3	1.83	0.42
2:bo:77:ASN:ND2	2:bo:209:TYR:O	2.53	0.42
2:bp:215:SER:OG	2:bp:216:ARG:N	2.52	0.42
2:bp:236:GLN:HB2	2:bp:240:GLU:HB3	2.00	0.42
1:bt:99:LEU:HD22	1:bS:60:ARG:HG2	2.01	0.42
1:bv:87:ASP:CB	2:dJ:5:THR:HG22	2.49	0.42
2:by:213:VAL:HG12	2:by:214:ARG:O	2.20	0.42
2:bz:208:GLU:OE1	2:bz:210:ARG:NE	2.53	0.42
2:bB:30:THR:HG21	2:bB:298:LEU:HD13	2.01	0.42
2:bD:64:VAL:O	2:bD:64:VAL:HG23	2.19	0.42
2:bD:122:LEU:HD23	2:bD:122:LEU:C	2.45	0.42
1:bJ:86:SER:O	1:bJ:90:LEU:N	2.51	0.42
2:bP:77:ASN:ND2	2:bP:209:TYR:O	2.53	0.42
2:bQ:30:THR:HG23	2:bQ:298:LEU:HD13	2.02	0.42
2:bY:224:TRP:CE3	2:bY:226:LEU:HD12	2.55	0.42
2:bZ:2:ALA:N	1:iP:94:GLU:CG	2.83	0.42
2:ce:30:THR:HG23	2:ce:298:LEU:HD13	2.02	0.42
2:cp:230:SER:O	2:cp:231:THR:HG22	2.20	0.42
2:cq:88:ARG:O	2:cq:91:ILE:HG12	2.19	0.42
2:cq:216:ARG:HB3	2:cq:219:VAL:HG12	2.00	0.42
2:cs:30:THR:HG23	2:cs:298:LEU:HD13	2.02	0.42
1:cu:98:LEU:HG	2:cE:62:GLN:CD	2.44	0.42
1:cu:101:VAL:HG22	1:cu:102:GLU:N	2.35	0.42
2:cC:59:TRP:CE3	2:cF:79:LEU:HD13	2.54	0.42
2:cF:144:TYR:HB3	2:cF:145:PRO:HD3	2.01	0.42
2:cG:122:LEU:C	2:cG:122:LEU:HD23	2.45	0.42
1:cH:94:GLU:CG	2:pg:2:ALA:N	2.83	0.42
1:cK:86:SER:O	1:cK:90:LEU:N	2.50	0.42
1:cK:103:ARG:NH1	2:eY:61:GLY:CA	2.70	0.42
2:cP:191:SER:CB	2:cU:191:SER:HB3	2.50	0.42
2:cQ:59:TRP:CE3	2:cT:79:LEU:HD13	2.54	0.42
2:cS:88:ARG:O	2:cS:91:ILE:HG12	2.19	0.42
2:cT:77:ASN:ND2	2:cT:209:TYR:O	2.53	0.42
2:cU:236:GLN:CB	2:cU:240:GLU:HB3	2.49	0.42
2:cU:251:ALA:HB2	2:cU:257:LEU:HD21	2.01	0.42
1:cV:58:PHE:HB3	1:cV:101:VAL:HG13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dd:63:ARG:HD2	2:eJ:205:MET:CE	2.49	0.42
2:dd:201:GLU:O	2:dd:202:GLN:C	2.62	0.42
2:de:226:LEU:HD22	2:de:270:LEU:HD22	2.00	0.42
2:dg:216:ARG:HB3	2:dg:219:VAL:HG12	2.00	0.42
2:dh:5:THR:HG22	1:fi:87:ASP:CB	2.49	0.42
1:dj:57:VAL:O	1:dj:79:GLY:O	2.38	0.42
1:dj:58:PHE:HB3	1:dj:101:VAL:HG13	2.02	0.42
1:dk:101:VAL:HG22	1:dk:102:GLU:N	2.35	0.42
1:dn:96:ASP:OD1	2:dv:64:VAL:HG13	2.19	0.42
2:dv:144:TYR:HB3	2:dv:145:PRO:HD3	2.01	0.42
2:dv:248:ASN:OD1	2:dv:248:ASN:O	2.38	0.42
2:dw:251:ALA:HB2	2:dw:257:LEU:HD21	2.01	0.42
1:dA:103:ARG:NE	2:ph:61:GLY:CA	2.83	0.42
2:dF:68:MET:SD	2:eX:102:LEU:HD13	2.59	0.42
2:dH:230:SER:O	2:dH:231:THR:HG22	2.20	0.42
2:dI:20:PHE:N	2:dI:20:PHE:CD1	2.87	0.42
2:dI:113:HIS:CE1	2:dI:117:LEU:HD11	2.54	0.42
2:dK:276:GLU:OE2	2:dK:280:VAL:HG21	2.19	0.42
1:dM:60:ARG:HG2	1:pD:99:LEU:HD22	2.01	0.42
1:dP:103:ARG:HD2	2:oR:61:GLY:CA	2.40	0.42
2:dT:2:ALA:N	1:nU:94:GLU:CG	2.83	0.42
2:dT:198:GLU:CD	1:nM:102:GLU:HA	2.44	0.42
2:dU:61:GLY:CA	1:oN:103:ARG:NE	2.83	0.42
2:dU:280:VAL:HG22	2:dU:282:ARG:H	1.85	0.42
1:ec:103:ARG:NE	2:ew:61:GLY:HA2	2.35	0.42
1:ed:60:ARG:HB2	1:ed:102:GLU:O	2.18	0.42
2:ej:235:ASN:O	2:ej:240:GLU:HB2	2.19	0.42
2:ek:228:ALA:O	2:ek:284:ALA:HB2	2.20	0.42
1:er:60:ARG:HB2	1:er:102:GLU:O	2.19	0.42
2:ez:77:ASN:ND2	2:ez:209:TYR:O	2.53	0.42
2:ez:294:LEU:CD2	2:ez:295:VAL:HG23	2.39	0.42
1:eB:57:VAL:O	1:eB:79:GLY:O	2.38	0.42
1:eF:103:ARG:HD2	2:go:61:GLY:CA	2.40	0.42
2:eI:182:LEU:H	2:eI:182:LEU:HD23	1.85	0.42
2:eK:19:HIS:NE2	2:eM:38:ILE:HD13	2.34	0.42
2:eM:30:THR:HG21	2:eM:298:LEU:HD13	2.01	0.42
2:eX:192:PHE:HZ	2:fc:196:THR:HG21	1.83	0.42
2:eZ:66:LYS:HB2	2:fa:84:VAL:HG12	2.02	0.42
2:fb:248:ASN:OD1	2:fb:248:ASN:O	2.38	0.42
2:fo:187:ARG:O	2:fo:187:ARG:CG	2.68	0.42
2:fp:77:ASN:ND2	2:fp:209:TYR:O	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fr:63:VAL:HG23	1:fr:78:GLN:H	1.84	0.42
1:fv:102:GLU:HG2	2:nl:62:GLN:OE1	2.02	0.42
2:fz:102:LEU:HD13	2:mi:68:MET:SD	2.59	0.42
2:fz:177:ARG:HH11	2:fz:177:ARG:HG3	1.83	0.42
2:fA:197:LYS:CE	1:nX:99:LEU:HA	2.48	0.42
2:fC:228:ALA:O	2:fC:284:ALA:HB2	2.20	0.42
1:fF:58:PHE:CE1	2:nm:3:ILE:HD11	2.53	0.42
1:fF:65:ARG:HG2	1:fF:96:ASP:HB2	2.02	0.42
1:fI:57:VAL:O	1:fI:59:VAL:HG23	2.19	0.42
1:fI:99:LEU:HA	2:mx:197:LYS:CE	2.49	0.42
2:fN:44:SER:OG	2:fN:45:ASN:N	2.51	0.42
2:fN:278:VAL:O	2:fN:278:VAL:HG23	2.19	0.42
2:fr:5:THR:HG22	1:kz:87:ASP:CB	2.49	0.42
1:fY:59:VAL:O	1:fY:59:VAL:HG13	2.18	0.42
2:ga:224:TRP:CE3	2:ga:226:LEU:HD12	2.55	0.42
2:gb:44:SER:OG	2:gb:45:ASN:N	2.51	0.42
2:gb:77:ASN:HD21	2:gb:179:LEU:HD11	1.84	0.42
2:gb:198:GLU:CD	1:if:102:GLU:HA	2.44	0.42
2:ge:88:ARG:O	2:ge:91:ILE:HG12	2.19	0.42
2:gf:77:ASN:ND2	2:gf:209:TYR:O	2.53	0.42
2:go:229:MET:HB3	2:go:234:LEU:HD22	2.01	0.42
2:gp:201:GLU:O	2:gp:202:GLN:C	2.62	0.42
2:gu:215:SER:OG	2:gu:216:ARG:N	2.52	0.42
2:gu:236:GLN:CB	2:gu:240:GLU:HB3	2.49	0.42
1:gv:57:VAL:O	1:gv:79:GLY:O	2.38	0.42
2:gG:30:THR:HG21	2:gG:298:LEU:HD13	2.01	0.42
2:gI:246:MET:HA	2:gI:249:GLN:HG2	2.00	0.42
1:gJ:57:VAL:HB	1:gJ:59:VAL:HG23	1.99	0.42
2:gQ:182:LEU:H	2:gQ:182:LEU:HD23	1.85	0.42
2:gR:193:THR:HG23	2:IT:193:THR:HG22	2.00	0.42
2:gR:213:VAL:HG12	2:gR:214:ARG:O	2.20	0.42
2:gU:228:ALA:O	2:gU:284:ALA:HB2	2.20	0.42
2:gW:236:GLN:CB	2:gW:240:GLU:HB3	2.49	0.42
1:gY:98:LEU:HG	2:hi:62:GLN:CD	2.44	0.42
1:hb:96:ASP:OD1	2:hj:64:VAL:HG13	2.19	0.42
2:hh:66:LYS:HB2	2:hi:84:VAL:HG12	2.02	0.42
2:hj:9:ILE:HD11	2:oF:70:ALA:HB2	2.01	0.42
2:hk:122:LEU:HD23	2:hk:122:LEU:C	2.45	0.42
1:hm:99:LEU:HA	2:hv:62:GLN:NE2	2.34	0.42
1:ho:99:LEU:HA	2:kR:197:LYS:CE	2.49	0.42
2:ht:13:LYS:HB3	2:hv:43:ALA:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hv:187:ARG:O	2:hv:187:ARG:CG	2.68	0.42
1:hz:101:VAL:HG22	1:hz:102:GLU:N	2.35	0.42
2:hG:70:ALA:HB2	2:kU:9:ILE:HD11	2.01	0.42
2:hG:197:LYS:CE	1:kx:99:LEU:HA	2.48	0.42
2:hJ:281:GLN:O	2:hJ:289:ASN:N	2.53	0.42
1:hL:63:VAL:HG23	1:hL:78:GLN:H	1.84	0.42
1:hQ:60:ARG:CB	1:hQ:102:GLU:HB3	2.50	0.42
2:hT:21:GLN:O	2:hT:22:ASP:OD1	2.37	0.42
2:hX:144:TYR:HB3	2:hX:145:PRO:HD3	2.01	0.42
2:hY:185:GLN:O	2:hY:205:MET:N	2.43	0.42
1:hZ:58:PHE:HB3	1:hZ:101:VAL:HG13	2.02	0.42
1:ia:98:LEU:HG	2:ik:62:GLN:CD	2.44	0.42
1:ib:95:SER:OG	1:ib:96:ASP:N	2.52	0.42
2:ih:213:VAL:HG12	2:ih:214:ARG:O	2.20	0.42
2:ii:63:ARG:HE	2:il:205:MET:CE	2.30	0.42
2:ik:88:ARG:O	2:ik:91:ILE:HG12	2.19	0.42
2:ik:113:HIS:CE1	2:ik:117:LEU:HD11	2.54	0.42
2:ik:187:ARG:O	2:ik:187:ARG:CG	2.68	0.42
2:im:122:LEU:HD23	2:im:122:LEU:C	2.45	0.42
1:iq:57:VAL:O	1:iq:59:VAL:HG23	2.19	0.42
1:iB:57:VAL:O	1:iB:79:GLY:O	2.38	0.42
1:iC:101:VAL:HG22	1:iC:102:GLU:N	2.35	0.42
1:iE:99:LEU:HA	2:pv:197:LYS:CE	2.49	0.42
1:iF:96:ASP:OD1	2:iN:64:VAL:HG13	2.19	0.42
2:iJ:177:ARG:HH11	2:iJ:177:ARG:HG3	1.83	0.42
2:iK:208:GLU:OE1	2:iK:210:ARG:NE	2.53	0.42
2:iN:281:GLN:O	2:iN:289:ASN:N	2.53	0.42
2:iO:276:GLU:OE2	2:iO:280:VAL:HG21	2.19	0.42
1:iT:60:ARG:HB2	1:iT:102:GLU:O	2.18	0.42
2:iX:102:LEU:HD13	2:jl:68:MET:SD	2.59	0.42
2:iY:59:TRP:CE3	2:jb:79:LEU:HD13	2.54	0.42
1:ji:63:VAL:HG13	1:ji:74:ASP:HB3	1.99	0.42
2:jm:226:LEU:HD22	2:jm:270:LEU:HD22	2.00	0.42
2:jn:66:LYS:HB2	2:jo:84:VAL:HG12	2.02	0.42
2:jp:200:ASP:N	2:jp:200:ASP:OD1	2.50	0.42
2:jQ:106:MET:CE	2:jQ:206:ALA:HB3	2.49	0.42
2:jQ:238:ASN:O	2:jQ:241:LYS:HG2	2.18	0.42
1:jr:57:VAL:HB	1:jr:59:VAL:HG23	1.99	0.42
1:jx:102:GLU:HA	2:le:198:GLU:CD	2.44	0.42
2:jA:70:ALA:HB2	2:IK:9:ILE:HD11	2.01	0.42
2:jA:208:GLU:OE1	2:jA:210:ARG:NE	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jD:77:ASN:ND2	2:jD:209:TYR:O	2.53	0.42
2:jD:263:LEU:HD23	2:jD:296:GLN:HE21	1.84	0.42
2:jE:30:THR:HG23	2:jE:298:LEU:HD13	2.02	0.42
1:jF:63:VAL:HG23	1:jF:78:GLN:H	1.84	0.42
1:jK:86:SER:O	1:jK:90:LEU:N	2.51	0.42
2:jN:201:GLU:O	2:jN:202:GLN:C	2.62	0.42
2:jR:200:ASP:OD1	2:jR:200:ASP:N	2.50	0.42
1:jT:57:VAL:O	1:jT:79:GLY:O	2.38	0.42
1:jU:100:LYS:CB	1:pT:100:LYS:CE	2.92	0.42
1:jW:57:VAL:O	1:jW:59:VAL:HG23	2.19	0.42
1:jZ:86:SER:O	1:jZ:90:LEU:N	2.47	0.42
2:kd:79:LEU:HD11	2:kg:59:TRP:HA	2.02	0.42
2:ke:216:ARG:HB3	2:ke:219:VAL:HG12	2.00	0.42
1:ki:101:VAL:HG22	1:ki:102:GLU:N	2.35	0.42
2:ko:229:MET:HB3	2:ko:234:LEU:HD22	2.01	0.42
2:kp:19:HIS:NE2	2:kr:38:ILE:HD13	2.34	0.42
2:kq:230:SER:O	2:kq:231:THR:HG22	2.20	0.42
2:kr:228:ALA:O	2:kr:284:ALA:HB2	2.20	0.42
2:ks:248:ASN:OD1	2:ks:248:ASN:O	2.38	0.42
2:kt:215:SER:OG	2:kt:216:ARG:N	2.52	0.42
2:kC:213:VAL:HG12	2:kC:214:ARG:O	2.20	0.42
2:kH:106:MET:CE	2:kH:206:ALA:HB3	2.49	0.42
1:kJ:101:VAL:HG22	1:kJ:102:GLU:N	2.35	0.42
1:kL:62:THR:HG21	1:kL:97:PRO:HB3	2.00	0.42
1:kN:101:VAL:O	1:kN:101:VAL:HG23	2.18	0.42
2:kQ:3:ILE:HD11	1:ne:58:PHE:CE1	2.53	0.42
2:kT:113:HIS:CE1	2:kT:117:LEU:HD11	2.54	0.42
2:kU:89:THR:N	2:kU:200:ASP:OD2	2.36	0.42
2:kV:236:GLN:CB	2:kV:240:GLU:HB3	2.49	0.42
2:ld:182:LEU:H	2:ld:182:LEU:HD23	1.85	0.42
2:lh:88:ARG:O	2:lh:91:ILE:HG12	2.19	0.42
1:lk:65:ARG:HG2	1:lk:96:ASP:HB2	2.02	0.42
1:ln:62:THR:HG21	1:ln:97:PRO:HB3	2.00	0.42
2:ls:213:VAL:HG12	2:ls:214:ARG:O	2.20	0.42
1:ly:67:CYS:HA	1:ly:72:CYS:HA	2.00	0.42
2:lF:3:ILE:HG22	2:lF:5:THR:H	1.83	0.42
2:lH:61:GLY:HA2	1:mT:103:ARG:NE	2.35	0.42
2:lK:281:GLN:O	2:lK:289:ASN:N	2.53	0.42
2:lL:236:GLN:HB2	2:lL:240:GLU:HB3	2.00	0.42
1:lN:101:VAL:HG22	1:lN:102:GLU:N	2.35	0.42
1:lR:57:VAL:HG22	1:lR:104:CYS:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IT:224:TRP:CE3	2:IT:226:LEU:HD12	2.55	0.42
2:IV:53:PHE:O	2:IV:255:ARG:NH2	2.43	0.42
2:mi:2:ALA:N	1:mC:94:GLU:CG	2.83	0.42
2:mi:193:THR:HG23	2:mv:193:THR:HG22	1.99	0.42
2:mk:66:LYS:HB2	2:ml:84:VAL:HG12	2.02	0.42
2:mk:197:LYS:HZ2	1:mt:100:LYS:HB3	1.85	0.42
2:mm:200:ASP:OD1	2:mm:200:ASP:N	2.50	0.42
1:mo:63:VAL:HG23	1:mo:78:GLN:H	1.84	0.42
1:mp:99:LEU:HA	2:mz:62:GLN:NE2	2.34	0.42
2:mv:182:LEU:HD23	2:mv:182:LEU:H	1.85	0.42
2:mz:113:HIS:CE1	2:mz:117:LEU:HD11	2.54	0.42
2:mA:144:TYR:HB3	2:mA:145:PRO:HD3	2.01	0.42
2:mB:122:LEU:HD23	2:mB:122:LEU:C	2.45	0.42
2:mB:276:GLU:OE2	2:mB:280:VAL:HG21	2.19	0.42
1:mF:57:VAL:O	1:mF:59:VAL:HG23	2.19	0.42
1:mF:62:THR:HG21	1:mF:97:PRO:HB3	2.00	0.42
1:mF:99:LEU:HA	2:nn:197:LYS:CE	2.49	0.42
2:mL:70:ALA:HB2	2:oW:9:ILE:HD11	2.01	0.42
2:mL:280:VAL:HG22	2:mL:282:ARG:H	1.85	0.42
2:mP:30:THR:HG23	2:mP:298:LEU:HD13	2.02	0.42
2:mP:236:GLN:CB	2:mP:240:GLU:HB3	2.49	0.42
1:mU:96:ASP:OD1	2:nc:64:VAL:HG13	2.19	0.42
2:nc:281:GLN:O	2:nc:289:ASN:N	2.53	0.42
2:nd:64:VAL:HG23	2:nd:64:VAL:O	2.19	0.42
2:nl:224:TRP:CE3	2:nl:226:LEU:HD12	2.55	0.42
2:nm:44:SER:OG	2:nm:45:ASN:N	2.51	0.42
2:nr:245:ALA:O	2:nr:249:GLN:HG2	2.20	0.42
2:nz:3:ILE:HG22	2:nz:5:THR:H	1.83	0.42
2:nA:191:SER:CB	2:nF:191:SER:HB3	2.50	0.42
2:nC:79:LEU:HD11	2:nF:59:TRP:HA	2.02	0.42
2:nD:20:PHE:N	2:nD:20:PHE:CD1	2.87	0.42
2:nE:77:ASN:ND2	2:nE:209:TYR:O	2.53	0.42
1:nV:98:LEU:HG	2:of:62:GLN:CD	2.44	0.42
1:nW:95:SER:OG	1:nW:96:ASP:N	2.52	0.42
2:ob:229:MET:HB3	2:ob:234:LEU:HD22	2.01	0.42
2:oc:219:VAL:O	2:oc:219:VAL:CG1	2.66	0.42
1:on:60:ARG:CB	1:on:102:GLU:HB3	2.50	0.42
2:og:141:HIS:HB3	2:og:143:VAL:HG23	2.01	0.42
2:or:13:LYS:HB3	2:ot:43:ALA:HB3	2.02	0.42
2:ov:246:MET:HA	2:ov:249:GLN:HG2	2.00	0.42
2:oD:3:ILE:HG22	2:oD:5:THR:H	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oI:160:PHE:HB2	2:oI:270:LEU:HD11	2.00	0.42
2:oJ:64:VAL:O	2:oJ:64:VAL:HG23	2.19	0.42
2:oJ:107:GLY:HA3	2:oJ:184:TYR:OH	2.19	0.42
2:oT:59:TRP:CE3	2:oW:79:LEU:HD13	2.54	0.42
2:oX:251:ALA:HB2	2:oX:257:LEU:HD21	2.01	0.42
2:ph:24:LEU:HD11	2:pj:257:LEU:HD12	2.00	0.42
2:pj:228:ALA:O	2:pj:284:ALA:HB2	2.20	0.42
2:pl:229:MET:O	2:pl:285:ASN:ND2	2.52	0.42
2:pt:224:TRP:CE3	2:pt:226:LEU:HD12	2.55	0.42
2:pv:24:LEU:HD11	2:px:257:LEU:HD12	2.01	0.42
2:px:113:HIS:CE1	2:px:117:LEU:HD11	2.54	0.42
2:py:281:GLN:O	2:py:289:ASN:N	2.53	0.42
2:pz:236:GLN:CB	2:pz:240:GLU:HB3	2.49	0.42
1:pF:57:VAL:HG22	1:pF:104:CYS:H	1.84	0.42
2:pL:88:ARG:O	2:pL:91:ILE:HG12	2.19	0.42
2:pN:30:THR:HG23	2:pN:298:LEU:HD13	2.02	0.42
2:pN:215:SER:OG	2:pN:216:ARG:N	2.52	0.42
1:pO:57:VAL:O	1:pO:79:GLY:O	2.38	0.42
2:pX:19:HIS:NE2	2:pZ:38:ILE:HD13	2.34	0.42
2:qa:263:LEU:HD23	2:qa:296:GLN:HE21	1.83	0.42
1:qc:57:VAL:O	1:qc:79:GLY:O	2.38	0.42
3:qd:67:ARG:NH1	3:qe:126:ARG:O	2.53	0.42
3:qi:64:GLY:O	4:qn:219:ILE:HG22	2.20	0.42
4:ql:177:MET:SD	4:ql:177:MET:N	2.92	0.42
6:qq:58:LEU:HD13	6:qM:112:LEU:HD23	0.46	0.42
5:qr:240:PRO:HA	5:qt:268:GLU:OE1	2.18	0.42
6:qu:17:LYS:CE	6:qw:81:ILE:HG21	2.49	0.42
6:qu:133:ASP:O	6:qu:134:TRP:HB2	2.19	0.42
5:qx:239:TYR:CZ	6:qA:123:ASN:HB3	2.52	0.42
5:qx:248:LYS:HE2	6:qA:123:ASN:HB3	1.67	0.42
6:qC:17:LYS:CE	6:qE:81:ILE:HG21	2.49	0.42
6:qC:133:ASP:O	6:qC:134:TRP:HB2	2.19	0.42
6:qE:83:LEU:HD11	6:qE:89:VAL:HG13	2.00	0.42
1:aa:60:ARG:HG2	1:nh:99:LEU:HD22	2.01	0.42
1:ad:96:ASP:OD1	2:al:64:VAL:HG13	2.19	0.42
1:ae:87:ASP:CB	2:fd:5:THR:HG22	2.49	0.42
2:aj:144:TYR:HB3	2:aj:145:PRO:CD	2.49	0.42
2:al:77:ASN:ND2	2:al:209:TYR:O	2.53	0.42
2:av:280:VAL:HG22	2:av:282:ARG:H	1.85	0.42
2:aw:144:TYR:HB3	2:aw:145:PRO:CD	2.49	0.42
2:aw:230:SER:O	2:aw:231:THR:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:az:229:MET:O	2:az:285:ASN:ND2	2.52	0.42
1:aA:57:VAL:O	1:aA:79:GLY:O	2.38	0.42
1:aF:60:ARG:CB	1:aF:102:GLU:HB3	2.50	0.42
1:aF:87:ASP:CB	2:nc:5:THR:HG22	2.49	0.42
2:aI:63:ARG:HD2	2:kb:205:MET:CE	2.49	0.42
2:aI:191:SER:CB	2:aN:191:SER:HB3	2.50	0.42
2:aI:213:VAL:HG12	2:aI:214:ARG:O	2.20	0.42
2:aJ:13:LYS:HB3	2:aL:43:ALA:HB3	2.01	0.42
2:aM:5:THR:HG22	1:mV:87:ASP:CB	2.49	0.42
2:aY:234:LEU:HG	2:aY:239:PHE:HB2	2.02	0.42
2:aZ:113:HIS:CE1	2:aZ:117:LEU:HD11	2.54	0.42
2:aZ:144:TYR:CG	2:aZ:145:PRO:HD2	2.55	0.42
2:bb:215:SER:OG	2:bb:216:ARG:N	2.52	0.42
2:bk:21:GLN:O	2:bk:22:ASP:OD1	2.37	0.42
2:bl:208:GLU:OE1	2:bl:210:ARG:NE	2.53	0.42
2:bo:9:ILE:HD11	2:jm:70:ALA:HB2	2.01	0.42
2:bp:30:THR:HG23	2:bp:298:LEU:HD13	2.02	0.42
2:bp:228:ALA:HB3	2:bp:273:LYS:HE3	2.02	0.42
1:bu:103:ARG:HD2	2:dc:61:GLY:CA	2.40	0.42
2:bz:59:TRP:CE3	2:bC:79:LEU:HD13	2.54	0.42
2:bA:234:LEU:HG	2:bA:239:PHE:HB2	2.02	0.42
2:bC:248:ASN:OD1	2:bC:248:ASN:O	2.38	0.42
2:bD:245:ALA:O	2:bD:249:GLN:HG2	2.20	0.42
1:bE:57:VAL:O	1:bE:79:GLY:O	2.38	0.42
1:bF:104:CYS:HA	2:gW:62:GLN:HE22	1.82	0.42
2:bL:13:LYS:NZ	2:hH:90:ASP:O	2.52	0.42
2:bM:59:TRP:CE3	2:bP:79:LEU:HD13	2.54	0.42
2:bQ:122:LEU:HD23	2:bQ:122:LEU:C	2.45	0.42
1:bW:60:ARG:CB	1:bW:102:GLU:HB3	2.50	0.42
2:bZ:173:LEU:HA	2:bZ:215:SER:HB3	2.01	0.42
2:cd:77:ASN:ND2	2:cd:209:TYR:O	2.53	0.42
2:ce:64:VAL:O	2:ce:64:VAL:HG23	2.19	0.42
1:ch:99:LEU:CA	1:jf:102:GLU:CD	2.87	0.42
2:cm:13:LYS:NZ	2:ix:90:ASP:O	2.52	0.42
2:cm:18:LYS:HD2	2:cm:98:VAL:HG21	2.00	0.42
2:cn:21:GLN:O	2:cn:22:ASP:OD1	2.37	0.42
2:co:208:GLU:OE1	2:co:210:ARG:NE	2.53	0.42
2:cp:234:LEU:HG	2:cp:239:PHE:HB2	2.02	0.42
1:cy:100:LYS:CE	1:nH:100:LYS:CB	2.92	0.42
2:cB:2:ALA:N	1:cV:94:GLU:CG	2.83	0.42
2:cB:213:VAL:HG12	2:cB:214:ARG:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cB:282:ARG:HH11	2:cP:282:ARG:NH2	1.93	0.42
2:cC:70:ALA:HB2	2:nS:9:ILE:HD11	2.01	0.42
2:cD:66:LYS:HB2	2:cE:84:VAL:HG12	2.02	0.42
2:cE:88:ARG:O	2:cE:91:ILE:HG12	2.19	0.42
2:cG:245:ALA:O	2:cG:249:GLN:HG2	2.20	0.42
1:cJ:63:VAL:HG22	1:cJ:75:LYS:N	2.35	0.42
1:cM:87:ASP:CB	2:pM:5:THR:HG22	2.49	0.42
2:cP:44:SER:OG	2:cP:75:ILE:O	2.21	0.42
2:cR:62:GLN:HE21	1:po:102:GLU:HG2	1.84	0.42
2:cR:66:LYS:HB2	2:cS:84:VAL:HG12	2.01	0.42
2:cS:144:TYR:CG	2:cS:145:PRO:HD2	2.55	0.42
2:cT:281:GLN:O	2:cT:289:ASN:N	2.53	0.42
1:cY:57:VAL:O	1:cY:59:VAL:HG23	2.19	0.42
1:cY:62:THR:HG21	1:cY:97:PRO:HB3	2.00	0.42
1:cZ:96:ASP:OD1	2:dh:64:VAL:HG13	2.19	0.42
2:de:280:VAL:HG22	2:de:282:ARG:H	1.85	0.42
2:du:113:HIS:CE1	2:du:117:LEU:HD11	2.54	0.42
2:dw:232:GLU:O	2:dw:236:GLN:HG2	2.19	0.42
2:dF:77:ASN:HD21	2:dF:179:LEU:HD11	1.84	0.42
2:dH:90:ASP:O	2:pf:13:LYS:NZ	2.52	0.42
2:dH:197:LYS:HZ2	1:pd:100:LYS:HB3	1.85	0.42
2:dK:107:GLY:HA3	2:dK:184:TYR:OH	2.19	0.42
2:dK:251:ALA:HB2	2:dK:257:LEU:HD21	2.01	0.42
1:dM:101:VAL:HG22	1:dM:102:GLU:N	2.35	0.42
1:dO:103:ARG:NE	2:nP:61:GLY:HA2	2.35	0.42
2:dX:5:THR:HG22	1:jK:87:ASP:CB	2.49	0.42
2:dX:144:TYR:HB3	2:dX:145:PRO:HD3	2.01	0.42
2:dX:226:LEU:HA	2:dX:238:ASN:ND2	2.33	0.42
2:dX:248:ASN:OD1	2:dX:248:ASN:O	2.38	0.42
2:dX:281:GLN:O	2:dX:289:ASN:N	2.53	0.42
2:dY:236:GLN:CB	2:dY:240:GLU:HB3	2.49	0.42
1:dZ:58:PHE:CE1	2:oS:3:ILE:HD11	2.53	0.42
1:ea:104:CYS:HA	2:fE:62:GLN:HE22	1.82	0.42
1:eb:102:GLU:CD	1:nW:99:LEU:CA	2.87	0.42
1:ec:57:VAL:O	1:ec:59:VAL:HG23	2.19	0.42
2:eh:2:ALA:N	1:eB:94:GLU:CG	2.83	0.42
2:eh:191:SER:CB	2:em:191:SER:HB3	2.50	0.42
2:ek:88:ARG:O	2:ek:91:ILE:HG12	2.19	0.42
2:el:200:ASP:N	2:el:200:ASP:OD1	2.50	0.42
2:el:263:LEU:HD23	2:el:296:GLN:HE21	1.83	0.42
1:eq:58:PHE:CG	1:eq:101:VAL:HG21	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eq:99:LEU:HA	2:ph:197:LYS:CE	2.49	0.42
2:ev:278:VAL:O	2:ev:278:VAL:HG23	2.19	0.42
2:ew:59:TRP:CE3	2:ez:79:LEU:HD13	2.54	0.42
2:ex:197:LYS:HZ2	1:gA:100:LYS:HB3	1.85	0.42
2:ex:230:SER:O	2:ex:231:THR:HG22	2.20	0.42
2:ey:30:THR:HG21	2:ey:298:LEU:HD13	2.01	0.42
1:eE:99:LEU:C	2:fm:197:LYS:NZ	2.58	0.42
2:eI:224:TRP:CE3	2:eI:226:LEU:HD12	2.55	0.42
2:eJ:213:VAL:HG12	2:eJ:214:ARG:O	2.20	0.42
2:eK:208:GLU:OE1	2:eK:210:ARG:NE	2.53	0.42
2:eL:234:LEU:HG	2:eL:239:PHE:HB2	2.02	0.42
2:eN:5:THR:HG22	1:gO:87:ASP:CB	2.49	0.42
1:eQ:101:VAL:HG22	1:eQ:102:GLU:N	2.35	0.42
2:eY:13:LYS:HB3	2:fa:43:ALA:HB3	2.02	0.42
1:fd:58:PHE:HB3	1:fd:101:VAL:HG13	2.02	0.42
1:fi:101:VAL:O	1:fi:101:VAL:HG23	2.19	0.42
2:fk:224:TRP:CE3	2:fk:226:LEU:HD12	2.55	0.42
2:fl:102:LEU:HD13	2:nA:68:MET:SD	2.59	0.42
2:fo:228:ALA:O	2:fo:284:ALA:HB2	2.20	0.42
2:fq:215:SER:OG	2:fq:216:ARG:N	2.52	0.42
1:fv:96:ASP:OD1	2:fD:64:VAL:HG13	2.19	0.42
2:fy:224:TRP:CE3	2:fy:226:LEU:HD12	2.55	0.42
2:fy:229:MET:HB3	2:fy:234:LEU:HD22	2.01	0.42
2:fA:61:GLY:CA	1:nh:103:ARG:NE	2.83	0.42
2:fA:208:GLU:OE1	2:fA:210:ARG:NE	2.53	0.42
2:fB:90:ASP:O	2:mh:13:LYS:NZ	2.52	0.42
2:fB:230:SER:O	2:fB:231:THR:HG22	2.20	0.42
2:fB:235:ASN:O	2:fB:240:GLU:HB2	2.19	0.42
2:fE:215:SER:OG	2:fE:216:ARG:N	2.52	0.42
2:fE:245:ALA:O	2:fE:249:GLN:HG2	2.20	0.42
1:fF:100:LYS:CE	1:mg:100:LYS:HZ1	2.33	0.42
1:fG:98:LEU:HG	2:fQ:62:GLN:CD	2.44	0.42
1:fl:99:LEU:CB	1:mp:102:GLU:OE1	2.62	0.42
2:fM:182:LEU:H	2:fM:182:LEU:HD23	1.84	0.42
2:fM:229:MET:HB3	2:fM:234:LEU:HD22	2.01	0.42
2:fN:2:ALA:N	1:gh:94:GLU:CG	2.83	0.42
2:fS:251:ALA:HB2	2:fS:257:LEU:HD21	2.01	0.42
1:fY:60:ARG:CB	1:fY:102:GLU:HB3	2.50	0.42
2:gd:79:LEU:HD11	2:gg:59:TRP:HA	2.02	0.42
2:gg:122:LEU:HD23	2:gg:122:LEU:C	2.45	0.42
2:gq:24:LEU:HD11	2:gs:257:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gs:113:HIS:CE1	2:gs:117:LEU:HD11	2.54	0.42
2:gu:9:ILE:HD11	2:hT:98:VAL:HG21	2.02	0.42
1:gv:94:GLU:CG	2:hT:2:ALA:N	2.83	0.42
1:gA:87:ASP:CB	2:pk:5:THR:HG22	2.49	0.42
2:gD:191:SER:CB	2:gI:191:SER:HB3	2.50	0.42
2:gH:5:THR:HG22	1:pd:87:ASP:CB	2.49	0.42
2:gH:77:ASN:ND2	2:gH:209:TYR:O	2.53	0.42
2:gH:160:PHE:HB2	2:gH:270:LEU:HD11	2.00	0.42
2:gI:107:GLY:HA3	2:gI:184:TYR:OH	2.19	0.42
1:gN:98:LEU:O	2:ih:197:LYS:NZ	2.47	0.42
2:gQ:224:TRP:CE3	2:gQ:226:LEU:HD12	2.55	0.42
2:gR:198:GLU:CD	1:lS:102:GLU:HA	2.44	0.42
2:gS:13:LYS:HB3	2:gU:43:ALA:HB3	2.02	0.42
2:gU:88:ARG:O	2:gU:91:ILE:HG12	2.19	0.42
2:gV:238:ASN:O	2:gV:242:VAL:CG2	2.62	0.42
2:gW:228:ALA:HB3	2:gW:273:LYS:HE3	2.02	0.42
1:gX:63:VAL:HG23	1:gX:78:GLN:H	1.84	0.42
1:ha:57:VAL:O	1:ha:59:VAL:HG23	2.19	0.42
1:hd:102:GLU:HA	2:lG:198:GLU:CD	2.44	0.42
2:he:182:LEU:H	2:he:182:LEU:HD23	1.85	0.42
2:hF:191:SER:CB	2:hk:191:SER:HB3	2.50	0.42
2:hh:148:ASP:OD1	2:hh:149:GLY:N	2.53	0.42
2:hh:235:ASN:O	2:hh:240:GLU:HB2	2.19	0.42
2:hi:228:ALA:O	2:hi:284:ALA:HB2	2.20	0.42
2:hk:232:GLU:O	2:hk:236:GLN:HG2	2.19	0.42
2:hk:245:ALA:O	2:hk:249:GLN:HG2	2.20	0.42
1:hm:101:VAL:HG22	1:hm:102:GLU:N	2.35	0.42
1:hn:63:VAL:HG22	1:hn:75:LYS:N	2.35	0.42
1:ho:99:LEU:HD22	1:kJ:60:ARG:HG2	2.01	0.42
2:hs:229:MET:HB3	2:hs:234:LEU:HD22	2.01	0.42
2:hx:96:LEU:CD1	5:qz:47:ARG:CD	2.80	0.42
2:hI:88:ARG:O	2:hI:91:ILE:HG12	2.19	0.42
2:hK:251:ALA:HB2	2:hK:257:LEU:HD21	2.01	0.42
1:hM:98:LEU:HG	2:hW:62:GLN:CD	2.44	0.42
1:hQ:101:VAL:HG23	1:hQ:101:VAL:O	2.19	0.42
2:hT:278:VAL:O	2:hT:278:VAL:HG23	2.19	0.42
2:hU:208:GLU:OE1	2:hU:210:ARG:NE	2.53	0.42
2:hW:187:ARG:O	2:hW:187:ARG:CG	2.68	0.42
2:hX:238:ASN:O	2:hX:242:VAL:CG2	2.62	0.42
2:hY:215:SER:OG	2:hY:216:ARG:N	2.52	0.42
2:hY:246:MET:HA	2:hY:249:GLN:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ia:101:VAL:HG22	1:ia:102:GLU:N	2.35	0.42
1:ic:57:VAL:O	1:ic:59:VAL:HG23	2.19	0.42
2:ig:182:LEU:H	2:ig:182:LEU:HD23	1.85	0.42
2:im:64:VAL:O	2:im:64:VAL:HG23	2.19	0.42
2:im:236:GLN:CB	2:im:240:GLU:HB3	2.49	0.42
2:im:251:ALA:HB2	2:im:257:LEU:HD21	2.01	0.42
1:it:86:SER:O	1:it:90:LEU:N	2.47	0.42
2:iu:193:THR:HG22	2:jN:193:THR:HG23	1.99	0.42
2:iv:177:ARG:HH11	2:iv:177:ARG:HG3	1.83	0.42
2:iv:191:SER:CB	2:iA:191:SER:HB3	2.50	0.42
1:iE:99:LEU:HD22	1:pn:60:ARG:HG2	2.01	0.42
2:iJ:201:GLU:O	2:iJ:202:GLN:C	2.62	0.42
2:iM:144:TYR:CG	2:iM:145:PRO:HD2	2.55	0.42
2:iO:30:THR:HG23	2:iO:298:LEU:HD13	2.02	0.42
2:iX:278:VAL:HG23	2:iX:278:VAL:O	2.19	0.42
2:jc:107:GLY:HA3	2:jc:184:TYR:OH	2.19	0.42
1:je:99:LEU:HA	2:jo:62:GLN:NE2	2.34	0.42
2:jk:18:LYS:HD2	2:jk:98:VAL:HG21	2.00	0.42
2:jl:191:SER:CB	2:jQ:191:SER:HB3	2.50	0.42
2:jP:160:PHE:HB2	2:jP:270:LEU:HD11	2.00	0.42
2:jQ:215:SER:OG	2:jQ:216:ARG:N	2.52	0.42
1:jR:57:VAL:O	1:jR:79:GLY:O	2.38	0.42
1:jT:102:GLU:CD	1:jV:99:LEU:CA	2.87	0.42
2:jY:61:GLY:CA	1:pS:103:ARG:HD2	2.40	0.42
2:jB:62:GLN:HG2	1:mS:103:ARG:H	1.85	0.42
2:jB:66:LYS:HB2	2:jC:84:VAL:HG12	2.01	0.42
2:jC:88:ARG:O	2:jC:91:ILE:HG12	2.19	0.42
2:jC:107:GLY:CA	2:jC:184:TYR:CZ	2.97	0.42
2:jE:106:MET:HE3	2:jE:206:ALA:HB3	2.02	0.42
2:jE:122:LEU:HD23	2:jE:122:LEU:C	2.45	0.42
2:jE:245:ALA:O	2:jE:249:GLN:HG2	2.20	0.42
1:jG:82:ASP:OD1	1:jG:83:GLY:N	2.51	0.42
1:jH:99:LEU:HB3	1:oM:102:GLU:CD	2.37	0.42
1:jH:102:GLU:HG2	2:os:62:GLN:HE21	1.84	0.42
1:jK:60:ARG:CB	1:jK:102:GLU:HB3	2.50	0.42
2:jM:18:LYS:HD2	2:jM:98:VAL:HG21	2.00	0.42
2:jN:213:VAL:HG12	2:jN:214:ARG:O	2.20	0.42
2:jO:280:VAL:HG22	2:jO:282:ARG:H	1.85	0.42
2:jR:226:LEU:HA	2:jR:238:ASN:ND2	2.33	0.42
2:jS:107:GLY:HA3	2:jS:184:TYR:OH	2.19	0.42
2:jS:229:MET:O	2:jS:285:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jS:246:MET:HA	2:jS:249:GLN:HG2	2.00	0.42
1:jW:99:LEU:HD22	1:mR:60:ARG:HG2	2.01	0.42
2:kb:63:ARG:HD2	2:ls:205:MET:CE	2.49	0.42
2:kg:215:SER:OG	2:kg:216:ARG:N	2.52	0.42
1:km:101:VAL:O	1:km:101:VAL:HG23	2.19	0.42
2:kp:226:LEU:HD22	2:kp:270:LEU:HD22	2.00	0.42
2:kq:148:ASP:OD1	2:kq:149:GLY:N	2.53	0.42
1:ku:58:PHE:HB3	1:ku:101:VAL:HG13	2.02	0.42
1:ku:63:VAL:HG23	1:ku:78:GLN:H	1.84	0.42
1:kz:60:ARG:CB	1:kz:102:GLU:HB3	2.50	0.42
1:kz:86:SER:O	1:kz:90:LEU:N	2.51	0.42
2:kD:208:GLU:OE1	2:kD:210:ARG:NE	2.53	0.42
2:kE:66:LYS:HB2	2:kF:84:VAL:HG12	2.02	0.42
2:kF:228:ALA:O	2:kF:284:ALA:HB2	2.20	0.42
2:kH:30:THR:HG23	2:kH:298:LEU:HD13	2.02	0.42
2:kH:245:ALA:O	2:kH:249:GLN:HG2	2.20	0.42
1:kN:59:VAL:HG13	1:kN:59:VAL:O	2.18	0.42
2:kR:59:TRP:CE3	2:kU:79:LEU:HD13	2.54	0.42
2:kV:30:THR:HG23	2:kV:298:LEU:HD13	2.02	0.42
2:kV:245:ALA:O	2:kV:249:GLN:HG2	2.20	0.42
2:kV:276:GLU:OE2	2:kV:280:VAL:HG21	2.19	0.42
1:kW:65:ARG:HG2	1:kW:96:ASP:HB2	2.02	0.42
1:kZ:99:LEU:HD22	1:lz:60:ARG:HG2	2.01	0.42
2:lf:13:LYS:HB3	2:lh:43:ALA:HB3	2.02	0.42
2:lf:63:ARG:HE	2:li:205:MET:CE	2.30	0.42
2:lf:70:ALA:HB2	2:nq:9:ILE:HD11	2.01	0.42
2:lf:208:GLU:OE1	2:lf:210:ARG:NE	2.53	0.42
2:lg:66:LYS:HB2	2:lh:84:VAL:HG12	2.02	0.42
2:li:263:LEU:HD23	2:li:296:GLN:HE21	1.83	0.42
2:lj:62:GLN:HB3	1:lz:103:ARG:O	2.20	0.42
2:lt:59:TRP:CE3	2:lw:79:LEU:HD13	2.54	0.42
2:lw:77:ASN:ND2	2:lw:209:TYR:O	2.53	0.42
2:lw:200:ASP:N	2:lw:200:ASP:OD1	2.50	0.42
2:lw:248:ASN:OD1	2:lw:248:ASN:O	2.38	0.42
2:lx:215:SER:OG	2:lx:216:ARG:N	2.52	0.42
2:lF:13:LYS:NZ	2:na:90:ASP:O	2.52	0.42
2:lF:229:MET:HB3	2:lF:234:LEU:HD22	2.01	0.42
2:II:144:TYR:HB3	2:II:145:PRO:CD	2.49	0.42
2:II:148:ASP:OD1	2:II:149:GLY:N	2.53	0.42
1:IM:65:ARG:HG2	1:IM:96:ASP:HB2	2.02	0.42
2:IU:44:SER:OG	2:IU:75:ILE:O	2.21	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IV:280:VAL:HG22	2:IV:282:ARG:H	1.85	0.42
2:IZ:122:LEU:HD23	2:IZ:122:LEU:C	2.45	0.42
2:mi:173:LEU:HA	2:mi:215:SER:HB3	2.01	0.42
2:ml:20:PHE:N	2:ml:20:PHE:CD1	2.87	0.42
2:mm:274:ALA:CB	2:mm:297:VAL:HG21	2.46	0.42
2:mm:281:GLN:O	2:mm:289:ASN:N	2.53	0.42
2:mv:224:TRP:CE3	2:mv:226:LEU:HD12	2.55	0.42
2:my:148:ASP:OD1	2:my:149:GLY:N	2.53	0.42
2:my:230:SER:O	2:my:231:THR:HG22	2.20	0.42
2:mB:229:MET:O	2:mB:285:ASN:ND2	2.52	0.42
2:mM:79:LEU:HD11	2:mP:59:TRP:HA	2.02	0.42
2:mN:88:ARG:O	2:mN:91:ILE:HG12	2.19	0.42
2:mP:276:GLU:OE2	2:mP:280:VAL:HG21	2.19	0.42
1:mQ:58:PHE:HB3	1:mQ:101:VAL:HG13	2.02	0.42
1:mQ:65:ARG:HG2	1:mQ:96:ASP:HB2	2.01	0.42
2:mZ:208:GLU:OE1	2:mZ:210:ARG:NE	2.53	0.42
1:ni:96:ASP:OD1	2:nq:64:VAL:HG13	2.19	0.42
2:nl:182:LEU:H	2:nl:182:LEU:HD23	1.85	0.42
2:no:144:TYR:HB3	2:no:145:PRO:CD	2.49	0.42
2:no:235:ASN:O	2:no:240:GLU:HB2	2.19	0.42
2:nq:248:ASN:OD1	2:nq:248:ASN:O	2.38	0.42
2:nr:236:GLN:CB	2:nr:240:GLU:HB3	2.49	0.42
1:ns:58:PHE:HB3	1:ns:101:VAL:HG13	2.02	0.42
2:nz:224:TRP:CE3	2:nz:226:LEU:HD12	2.55	0.42
2:nE:144:TYR:HB3	2:nE:145:PRO:HD3	2.01	0.42
2:nF:107:GLY:HA3	2:nF:184:TYR:OH	2.19	0.42
2:nF:232:GLU:O	2:nF:236:GLN:HG2	2.19	0.42
2:nN:229:MET:HB3	2:nN:234:LEU:HD22	2.01	0.42
2:nO:173:LEU:HA	2:nO:215:SER:HB3	2.00	0.42
2:nP:63:ARG:HE	2:nS:205:MET:CE	2.30	0.42
2:nQ:230:SER:O	2:nQ:231:THR:HG22	2.20	0.42
2:nS:263:LEU:HD23	2:nS:296:GLN:HE21	1.84	0.42
1:nU:58:PHE:HB3	1:nU:101:VAL:HG13	2.02	0.42
1:nU:100:LYS:CD	1:oa:100:LYS:NZ	2.71	0.42
1:nW:63:VAL:HG22	1:nW:75:LYS:N	2.35	0.42
2:od:13:LYS:HB3	2:of:43:ALA:HB3	2.02	0.42
2:od:24:LEU:HD11	2:of:257:LEU:HD12	2.00	0.42
1:oi:65:ARG:HG2	1:oi:96:ASP:HB2	2.02	0.42
1:ok:102:GLU:CD	1:oM:99:LEU:CA	2.87	0.42
2:os:230:SER:O	2:os:231:THR:HG22	2.20	0.42
2:ou:77:ASN:ND2	2:ou:209:TYR:O	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ov:228:ALA:HB3	2:ov:273:LYS:HE3	2.02	0.42
2:oe:173:LEU:HA	2:oe:215:SER:HB3	2.01	0.42
2:oe:201:GLU:O	2:oe:202:GLN:C	2.62	0.42
2:oe:219:VAL:O	2:oe:219:VAL:CG1	2.66	0.42
2:of:24:LEU:HD11	2:oh:257:LEU:HD12	2.00	0.42
2:og:234:LEU:HG	2:og:239:PHE:HB2	2.02	0.42
2:oh:88:ARG:O	2:oh:91:ILE:HG12	2.19	0.42
1:oo:96:ASP:OD1	2:ow:64:VAL:HG13	2.19	0.42
2:os:191:SER:CB	2:ox:191:SER:HB3	2.50	0.42
1:pe:86:SER:O	1:pe:90:LEU:N	2.47	0.42
2:pk:263:LEU:HD23	2:pk:296:GLN:HE21	1.83	0.42
2:pu:213:VAL:HG12	2:pu:214:ARG:O	2.20	0.42
2:pv:13:LYS:HB3	2:px:43:ALA:HB3	2.02	0.42
2:pv:19:HIS:NE2	2:px:38:ILE:HD13	2.34	0.42
2:py:77:ASN:ND2	2:py:209:TYR:O	2.53	0.42
2:pz:107:GLY:HA3	2:pz:184:TYR:OH	2.19	0.42
2:pz:228:ALA:HB3	2:pz:273:LYS:HE3	2.02	0.42
2:pl:21:GLN:O	2:pl:22:ASP:OD1	2.37	0.42
2:pl:173:LEU:HA	2:pl:215:SER:HB3	2.00	0.42
2:pl:191:SER:CB	2:pN:191:SER:HB3	2.50	0.42
2:pl:213:VAL:HG12	2:pl:214:ARG:O	2.19	0.42
2:pM:77:ASN:ND2	2:pM:209:TYR:O	2.53	0.42
2:pN:228:ALA:HB3	2:pN:273:LYS:HE3	2.02	0.42
1:pT:63:VAL:HG13	1:pT:74:ASP:HB3	1.99	0.42
2:pZ:187:ARG:O	2:pZ:187:ARG:CG	2.68	0.42
3:qd:66:GLN:O	4:qn:10:GLN:HG3	2.20	0.42
3:qf:136:TYR:O	3:qf:137:LEU:HG	2.19	0.42
3:qg:136:TYR:O	3:qg:137:LEU:HG	2.19	0.42
4:qj:5:THR:O	4:qo:74:SER:HA	2.20	0.42
6:qs:112:LEU:CD2	6:qu:58:LEU:HD12	1.00	0.42
5:qt:304:THR:OG1	5:qt:326:VAL:HG21	2.20	0.42
5:qB:218:TYR:OH	6:qG:133:ASP:OD2	2.28	0.42
5:qD:235:ARG:HG2	5:qD:255:VAL:HG13	2.01	0.42
5:qH:304:THR:OG1	5:qH:326:VAL:HG21	2.20	0.42
1:aa:103:ARG:O	2:nr:62:GLN:HB3	2.20	0.42
1:ab:99:LEU:HD22	1:ng:60:ARG:NE	2.12	0.42
1:ab:103:ARG:H	2:mM:62:GLN:HG2	1.85	0.42
2:ah:2:ALA:N	1:oy:94:GLU:CG	2.83	0.42
2:ah:21:GLN:O	2:ah:22:ASP:OD1	2.37	0.42
2:ak:88:ARG:O	2:ak:91:ILE:HG12	2.19	0.42
2:am:62:GLN:HB3	1:mD:103:ARG:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:am:122:LEU:HD23	2:am:122:LEU:C	2.45	0.42
2:am:185:GLN:O	2:am:205:MET:N	2.43	0.42
2:am:236:GLN:CB	2:am:240:GLU:HB3	2.49	0.42
1:aq:103:ARG:NE	2:kp:61:GLY:CA	2.83	0.42
1:as:87:ASP:CB	2:gt:5:THR:HG22	2.49	0.42
2:av:61:GLY:CA	1:bH:103:ARG:NE	2.83	0.42
2:az:62:GLN:HB3	1:dk:103:ARG:O	2.20	0.42
2:az:245:ALA:O	2:az:249:GLN:HG2	2.20	0.42
1:aC:102:GLU:HG2	2:hu:62:GLN:HE21	1.84	0.42
1:aF:57:VAL:HG22	1:aF:104:CYS:H	1.84	0.42
2:aH:193:THR:HG22	2:kb:193:THR:HG23	2.00	0.42
2:aJ:24:LEU:HD11	2:aL:257:LEU:HD12	2.00	0.42
2:aJ:280:VAL:HG22	2:aJ:282:ARG:H	1.85	0.42
1:aQ:102:GLU:HG2	2:jn:62:GLN:HE21	1.84	0.42
2:aW:42:THR:HG22	2:aW:43:ALA:H	1.85	0.42
2:aW:198:GLU:CD	1:bi:102:GLU:HA	2.44	0.42
2:aZ:228:ALA:O	2:aZ:284:ALA:HB2	2.20	0.42
2:bb:30:THR:HG23	2:bb:298:LEU:HD13	2.02	0.42
1:bd:99:LEU:HG	2:bn:62:GLN:HE22	1.83	0.42
1:bd:103:ARG:O	2:jc:62:GLN:HB3	2.20	0.42
1:bf:99:LEU:HD22	1:ki:60:ARG:HG2	2.01	0.42
1:bh:63:VAL:HG13	1:bh:74:ASP:HB3	1.99	0.42
2:bk:2:ALA:N	1:dx:94:GLU:CG	2.83	0.42
1:bs:95:SER:OG	1:bs:96:ASP:N	2.52	0.42
2:bC:5:THR:HG22	1:dC:87:ASP:CB	2.49	0.42
2:bC:281:GLN:O	2:bC:289:ASN:N	2.53	0.42
2:bD:9:ILE:HD11	2:dd:98:VAL:HG21	2.02	0.42
1:bE:58:PHE:HB3	1:bE:101:VAL:HG13	2.02	0.42
2:bN:144:TYR:HB3	2:bN:145:PRO:CD	2.50	0.42
2:bN:235:ASN:O	2:bN:240:GLU:HB2	2.19	0.42
2:bP:144:TYR:HB3	2:bP:145:PRO:HD3	2.01	0.42
2:bP:281:GLN:O	2:bP:289:ASN:N	2.53	0.42
2:bQ:62:GLN:HB3	1:gi:103:ARG:O	2.20	0.42
2:bQ:236:GLN:CB	2:bQ:240:GLU:HB3	2.49	0.42
2:bQ:251:ALA:HB2	2:bQ:257:LEU:HD21	2.01	0.42
1:bR:58:PHE:HB3	1:bR:101:VAL:HG13	2.02	0.42
1:bR:65:ARG:HG2	1:bR:96:ASP:HB2	2.02	0.42
1:bT:63:VAL:HG22	1:bT:75:LYS:N	2.35	0.42
2:cc:187:ARG:O	2:cc:187:ARG:CG	2.68	0.42
2:ce:107:GLY:HA3	2:ce:184:TYR:OH	2.19	0.42
1:cq:98:LEU:HG	2:cq:62:GLN:CD	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cj:103:ARG:HD2	2:iu:61:GLY:CA	2.40	0.42
2:cp:66:LYS:HB2	2:cq:84:VAL:HG12	2.02	0.42
2:cr:77:ASN:ND2	2:cr:209:TYR:O	2.53	0.42
2:cs:106:MET:HE3	2:cs:206:ALA:HB3	2.02	0.42
1:cu:103:ARG:O	2:dY:62:GLN:HB3	2.20	0.42
1:cw:99:LEU:HD22	1:pB:60:ARG:HG2	2.01	0.42
2:cA:224:TRP:CE3	2:cA:226:LEU:HD12	2.55	0.42
2:cE:113:HIS:CE1	2:cE:117:LEU:HD11	2.54	0.42
1:cK:57:VAL:O	1:cK:59:VAL:HG23	2.19	0.42
1:cM:60:ARG:CB	1:cM:102:GLU:HB3	2.50	0.42
2:cQ:70:ALA:HB2	2:pM:9:ILE:HD11	2.01	0.42
2:cR:148:ASP:OD1	2:cR:149:GLY:N	2.53	0.42
2:cU:106:MET:HE3	2:cU:206:ALA:HB3	2.02	0.42
2:cU:107:GLY:HA3	2:cU:184:TYR:OH	2.19	0.42
1:cV:57:VAL:O	1:cV:79:GLY:O	2.38	0.42
2:df:79:LEU:HD11	2:di:59:TRP:HA	2.02	0.42
2:di:64:VAL:O	2:di:64:VAL:HG23	2.19	0.42
1:dm:99:LEU:HA	2:hU:197:LYS:CE	2.49	0.42
2:dq:224:TRP:CE3	2:dq:226:LEU:HD12	2.55	0.42
2:dr:141:HIS:HB3	2:dr:143:VAL:HG23	2.01	0.42
2:ds:280:VAL:HG22	2:ds:282:ARG:H	1.85	0.42
2:dt:79:LEU:HD11	2:dw:59:TRP:HA	2.02	0.42
2:dv:9:ILE:HD11	2:kp:70:ALA:HB2	2.01	0.42
2:dw:228:ALA:HB3	2:dw:273:LYS:HE3	2.02	0.42
2:dF:141:HIS:HB3	2:dF:143:VAL:HG23	2.01	0.42
2:dF:201:GLU:O	2:dF:202:GLN:C	2.62	0.42
2:dH:144:TYR:HB3	2:dH:145:PRO:CD	2.49	0.42
2:dJ:263:LEU:HD23	2:dJ:296:GLN:HE21	1.83	0.42
2:dK:30:THR:HG23	2:dK:298:LEU:HD13	2.02	0.42
2:dK:64:VAL:O	2:dK:64:VAL:HG23	2.19	0.42
2:dK:246:MET:HA	2:dK:249:GLN:HG2	2.00	0.42
1:dQ:60:ARG:CB	1:dQ:102:GLU:HB3	2.50	0.42
2:dS:61:GLY:CA	1:nK:103:ARG:HD2	2.40	0.42
2:dT:98:VAL:HG21	2:nT:9:ILE:HD11	2.02	0.42
2:dT:191:SER:CB	2:dY:191:SER:HB3	2.50	0.42
2:dU:70:ALA:HB2	2:jR:9:ILE:HD11	2.01	0.42
2:dV:36:THR:HG22	2:dV:175:THR:HG22	2.00	0.42
2:dV:235:ASN:O	2:dV:240:GLU:HB2	2.19	0.42
2:dW:88:ARG:O	2:dW:91:ILE:HG12	2.19	0.42
2:dW:107:GLY:CA	2:dW:184:TYR:CZ	2.97	0.42
2:dW:144:TYR:CG	2:dW:145:PRO:HD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dW:228:ALA:O	2:dW:284:ALA:HB2	2.20	0.42
2:dY:30:THR:HG23	2:dY:298:LEU:HD13	2.02	0.42
2:dY:122:LEU:HD23	2:dY:122:LEU:C	2.45	0.42
1:dZ:57:VAL:O	1:dZ:79:GLY:O	2.38	0.42
1:dZ:65:ARG:HG2	1:dZ:96:ASP:HB2	2.02	0.42
1:dZ:94:GLU:CG	2:oS:2:ALA:N	2.83	0.42
1:ee:86:SER:O	1:ee:90:LEU:N	2.51	0.42
2:ei:208:GLU:OE1	2:ei:210:ARG:NE	2.53	0.42
2:ek:187:ARG:O	2:ek:187:ARG:CG	2.68	0.42
2:el:5:THR:HG22	1:mf:87:ASP:HB3	2.02	0.42
1:en:58:PHE:HB3	1:en:101:VAL:HG13	2.02	0.42
1:ep:63:VAL:HG22	1:ep:75:LYS:N	2.35	0.42
1:es:63:VAL:HG13	1:es:74:ASP:HB3	1.99	0.42
2:eu:182:LEU:H	2:eu:182:LEU:HD23	1.85	0.42
2:ev:2:ALA:N	1:gJ:94:GLU:CG	2.83	0.42
2:ev:44:SER:OG	2:ev:45:ASN:N	2.51	0.42
2:ex:90:ASP:O	2:gC:13:LYS:NZ	2.52	0.42
2:ez:281:GLN:O	2:ez:289:ASN:N	2.53	0.42
2:eA:228:ALA:HB3	2:eA:273:LYS:HE3	2.02	0.42
2:eA:236:GLN:CB	2:eA:240:GLU:HB3	2.49	0.42
2:eJ:63:ARG:HD2	2:gp:205:MET:CE	2.49	0.42
2:fc:106:MET:HE3	2:fc:206:ALA:HB3	2.02	0.42
1:fe:101:VAL:HG22	1:fe:102:GLU:N	2.35	0.42
2:fm:280:VAL:HG22	2:fm:282:ARG:H	1.85	0.42
2:fo:88:ARG:O	2:fo:91:ILE:HG12	2.19	0.42
2:fo:144:TYR:CG	2:fo:145:PRO:HD2	2.55	0.42
2:fp:294:LEU:CD2	2:fp:295:VAL:HG23	2.40	0.42
2:fq:245:ALA:O	2:fq:249:GLN:HG2	2.20	0.42
1:fu:103:ARG:NE	2:mj:61:GLY:CA	2.83	0.42
2:fz:21:GLN:O	2:fz:22:ASP:OD1	2.37	0.42
2:fz:77:ASN:HD21	2:fz:179:LEU:HD11	1.84	0.42
2:fC:113:HIS:CE1	2:fC:117:LEU:HD11	2.54	0.42
2:fE:251:ALA:HB2	2:fE:257:LEU:HD21	2.01	0.42
1:fF:58:PHE:HB3	1:fF:101:VAL:HG13	2.02	0.42
1:fF:94:GLU:CG	2:nm:2:ALA:N	2.83	0.42
1:fK:57:VAL:HG22	1:fK:104:CYS:H	1.84	0.42
1:fL:100:LYS:NZ	1:ma:100:LYS:CD	2.71	0.42
2:fN:8:LEU:HD12	2:fN:8:LEU:N	2.35	0.42
2:fO:208:GLU:OE1	2:fO:210:ARG:NE	2.53	0.42
2:fQ:88:ARG:O	2:fQ:91:ILE:HG12	2.19	0.42
2:fR:248:ASN:O	2:fR:248:ASN:OD1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fY:87:ASP:CB	2:mA:5:THR:HG22	2.49	0.42
2:gc:70:ALA:HB2	2:mA:9:ILE:HD11	2.01	0.42
2:gc:226:LEU:HD22	2:gc:270:LEU:HD22	2.00	0.42
2:gf:9:ILE:HD11	2:mx:70:ALA:HB2	2.01	0.42
2:gg:64:VAL:O	2:gg:64:VAL:HG23	2.19	0.42
2:gg:232:GLU:O	2:gg:236:GLN:HG2	2.19	0.42
1:gh:63:VAL:HG23	1:gh:78:GLN:H	1.84	0.42
1:gl:96:ASP:OD1	2:gt:64:VAL:HG13	2.19	0.42
1:gn:102:GLU:HA	2:hT:198:GLU:CD	2.44	0.42
2:go:224:TRP:CE3	2:go:226:LEU:HD12	2.55	0.42
2:gp:21:GLN:O	2:gp:22:ASP:OD1	2.37	0.42
2:gr:66:LYS:HB2	2:gs:84:VAL:HG12	2.01	0.42
2:gr:144:TYR:HB3	2:gr:145:PRO:CD	2.49	0.42
2:gs:187:ARG:O	2:gs:187:ARG:CG	2.68	0.42
2:gu:62:GLN:HB3	1:gK:103:ARG:O	2.20	0.42
2:gu:106:MET:HE3	2:gu:206:ALA:HB3	2.02	0.42
1:gw:101:VAL:HG22	1:gw:102:GLU:N	2.35	0.42
2:gD:21:GLN:O	2:gD:22:ASP:OD1	2.37	0.42
2:gD:213:VAL:HG12	2:gD:214:ARG:O	2.20	0.42
1:gM:103:ARG:NE	2:IV:61:GLY:CA	2.83	0.42
2:gR:44:SER:OG	2:gR:45:ASN:N	2.51	0.42
2:gS:19:HIS:NE2	2:gU:38:ILE:HD13	2.34	0.42
2:gT:148:ASP:OD1	2:gT:149:GLY:N	2.53	0.42
2:gW:107:GLY:HA3	2:gW:184:TYR:OH	2.19	0.42
1:gX:58:PHE:HB3	1:gX:101:VAL:HG13	2.02	0.42
1:gX:65:ARG:HG2	1:gX:96:ASP:HB2	2.02	0.42
1:gZ:63:VAL:HG22	1:gZ:75:LYS:N	2.35	0.42
1:hc:59:VAL:O	1:hc:59:VAL:HG13	2.18	0.42
1:hd:100:LYS:HZ1	1:lM:100:LYS:HD3	1.78	0.42
2:he:13:LYS:NZ	2:II:90:ASP:O	2.52	0.42
2:hF:205:MET:CE	2:kC:63:ARG:HD2	2.49	0.42
2:hG:70:ALA:HB2	2:oI:9:ILE:HD11	2.01	0.42
2:hi:88:ARG:O	2:hi:91:ILE:HG12	2.19	0.42
1:hm:98:LEU:HG	2:hv:62:GLN:CD	2.44	0.42
1:ho:86:SER:O	1:ho:90:LEU:N	2.50	0.42
2:hs:150:THR:OG1	2:hs:220:GLY:O	2.18	0.42
2:ht:63:ARG:NH2	2:hw:207:ASP:OD1	2.53	0.42
2:ht:280:VAL:HG22	2:ht:282:ARG:H	1.85	0.42
2:hu:234:LEU:HG	2:hu:239:PHE:HB2	2.02	0.42
2:hw:263:LEU:HD23	2:hw:296:GLN:HE21	1.84	0.42
1:hC:96:ASP:OD1	2:hJ:64:VAL:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hD:60:ARG:CB	1:hD:102:GLU:HB3	2.50	0.42
2:hF:172:LEU:HD22	5:qv:176:ASN:O	2.20	0.42
2:hS:182:LEU:HD23	2:hS:182:LEU:H	1.85	0.42
2:hS:229:MET:HB3	2:hS:234:LEU:HD22	2.01	0.42
2:hT:173:LEU:HA	2:hT:215:SER:HB3	2.01	0.42
2:hV:230:SER:O	2:hV:231:THR:HG22	2.20	0.42
2:hX:281:GLN:O	2:hX:289:ASN:N	2.53	0.42
2:hY:228:ALA:HB3	2:hY:273:LYS:HE3	2.02	0.42
2:hY:232:GLU:O	2:hY:236:GLN:HG2	2.19	0.42
2:hY:236:GLN:CB	2:hY:240:GLU:HB3	2.49	0.42
2:ih:173:LEU:HA	2:ih:215:SER:HB3	2.01	0.42
2:im:238:ASN:O	2:im:241:LYS:HG2	2.18	0.42
1:io:101:VAL:HG22	1:io:102:GLU:N	2.35	0.42
1:is:57:VAL:HG22	1:is:104:CYS:H	1.84	0.42
2:iv:173:LEU:HA	2:iv:215:SER:HB3	2.01	0.42
2:ix:144:TYR:HB3	2:ix:145:PRO:CD	2.49	0.42
2:ix:235:ASN:O	2:ix:240:GLU:HB2	2.19	0.42
2:iA:64:VAL:O	2:iA:64:VAL:HG23	2.19	0.42
1:iD:63:VAL:HG22	1:iD:75:LYS:N	2.35	0.42
1:iD:102:GLU:CD	1:po:99:LEU:HB3	2.37	0.42
2:iL:66:LYS:HB2	2:iM:84:VAL:HG12	2.02	0.42
2:iL:230:SER:O	2:iL:231:THR:HG22	2.20	0.42
2:iN:77:ASN:ND2	2:iN:209:TYR:O	2.53	0.42
2:iO:62:GLN:HB3	1:pn:103:ARG:O	2.20	0.42
2:iO:106:MET:HE3	2:iO:206:ALA:HB3	2.02	0.42
2:iO:245:ALA:O	2:iO:249:GLN:HG2	2.20	0.42
1:iP:57:VAL:O	1:iP:79:GLY:O	2.38	0.42
1:iQ:101:VAL:HG22	1:iQ:102:GLU:N	2.35	0.42
2:iW:224:TRP:CE3	2:iW:226:LEU:HD12	2.55	0.42
2:iX:2:ALA:N	1:jr:94:GLU:CG	2.83	0.42
2:iZ:230:SER:O	2:iZ:231:THR:HG22	2.20	0.42
2:jb:281:GLN:O	2:jb:289:ASN:N	2.53	0.42
1:jd:65:ARG:HG2	1:jd:96:ASP:HB2	2.02	0.42
1:jg:62:THR:HG21	1:jg:97:PRO:HB3	2.00	0.42
2:jk:224:TRP:CE3	2:jk:226:LEU:HD12	2.55	0.42
2:jp:281:GLN:O	2:jp:289:ASN:N	2.53	0.42
2:jq:30:THR:HG23	2:jq:298:LEU:HD13	2.02	0.42
2:jq:107:GLY:HA3	2:jq:184:TYR:OH	2.19	0.42
1:jv:96:ASP:OD1	2:jD:64:VAL:HG13	2.19	0.42
2:jy:224:TRP:CE3	2:jy:226:LEU:HD12	2.55	0.42
2:jC:20:PHE:N	2:jC:20:PHE:CD1	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jG:60:ARG:HG2	1:oN:99:LEU:HD22	2.01	0.42
2:jM:229:MET:HB3	2:jM:234:LEU:HD22	2.01	0.42
2:jP:79:LEU:HD11	2:jS:59:TRP:HA	2.02	0.42
2:jP:144:TYR:HB3	2:jP:145:PRO:CD	2.50	0.42
2:jQ:30:THR:HG21	2:jQ:298:LEU:HD13	2.01	0.42
2:jS:64:VAL:O	2:jS:64:VAL:HG23	2.19	0.42
1:jT:59:VAL:HG12	1:jT:61:ALA:N	2.28	0.42
1:jY:87:ASP:HB3	2:qa:5:THR:HG22	2.02	0.42
2:ka:3:ILE:HG22	2:ka:5:THR:H	1.83	0.42
2:kg:107:GLY:HA3	2:kg:184:TYR:OH	2.19	0.42
2:kg:251:ALA:HB2	2:kg:257:LEU:HD21	2.01	0.42
2:kq:66:LYS:HB2	2:kr:84:VAL:HG12	2.02	0.42
2:kt:122:LEU:HD23	2:kt:122:LEU:C	2.45	0.42
2:kt:229:MET:O	2:kt:285:ASN:ND2	2.52	0.42
2:kD:63:ARG:NH2	2:kG:207:ASP:OD1	2.53	0.42
2:kH:64:VAL:O	2:kH:64:VAL:HG23	2.20	0.42
2:kH:106:MET:HE3	2:kH:206:ALA:HB3	2.02	0.42
2:kQ:77:ASN:HD21	2:kQ:179:LEU:HD11	1.84	0.42
2:kQ:278:VAL:O	2:kQ:278:VAL:HG23	2.19	0.42
2:kR:208:GLU:OE1	2:kR:210:ARG:NE	2.53	0.42
2:kR:280:VAL:HG22	2:kR:282:ARG:H	1.85	0.42
2:kS:66:LYS:HB2	2:kT:84:VAL:HG12	2.02	0.42
2:kS:230:SER:O	2:kS:231:THR:HG22	2.20	0.42
2:kV:64:VAL:O	2:kV:64:VAL:HG23	2.19	0.42
1:kW:58:PHE:HB3	1:kW:101:VAL:HG13	2.02	0.42
1:lb:100:LYS:HB3	2:mM:197:LYS:HZ2	1.85	0.42
2:le:44:SER:OG	2:le:45:ASN:N	2.51	0.42
2:le:82:SER:HB2	2:le:206:ALA:H	1.85	0.42
2:li:9:ILE:HD11	2:nn:70:ALA:HB2	2.01	0.42
2:li:160:PHE:HB2	2:li:270:LEU:HD11	2.00	0.42
1:lm:102:GLU:CD	1:pQ:99:LEU:CA	2.87	0.42
2:ls:219:VAL:O	2:ls:219:VAL:CG1	2.66	0.42
2:lt:13:LYS:HB3	2:lv:43:ALA:HB3	2.02	0.42
2:lv:4:ILE:HG23	1:pP:90:LEU:HB3	2.02	0.42
2:lv:88:ARG:O	2:lv:91:ILE:HG12	2.19	0.42
2:lv:228:ALA:O	2:lv:284:ALA:HB2	2.20	0.42
2:lw:160:PHE:HB2	2:lw:270:LEU:HD11	2.00	0.42
1:ly:58:PHE:HB3	1:ly:101:VAL:HG13	2.02	0.42
1:lD:60:ARG:CB	1:lD:102:GLU:HB3	2.50	0.42
2:lG:21:GLN:O	2:lG:22:ASP:OD1	2.37	0.42
2:lG:141:HIS:HB3	2:lG:143:VAL:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lG:192:PHE:HZ	2:lL:196:THR:HG21	1.83	0.42
2:lI:230:SER:O	2:lI:231:THR:HG22	2.20	0.42
2:lK:77:ASN:ND2	2:lK:209:TYR:O	2.53	0.42
2:lL:62:GLN:HB3	1:ox:103:ARG:O	2.20	0.42
2:lL:122:LEU:HD23	2:lL:122:LEU:C	2.45	0.42
2:lV:208:GLU:OE1	2:lV:210:ARG:NE	2.53	0.42
2:lW:230:SER:O	2:lW:231:THR:HG22	2.20	0.42
2:lZ:144:TYR:HH	2:lZ:254:GLY:H	1.65	0.42
1:ma:58:PHE:HB3	1:ma:101:VAL:HG13	2.02	0.42
1:md:62:THR:HG21	1:md:97:PRO:HB3	2.00	0.42
2:mh:224:TRP:CE3	2:mh:226:LEU:HD12	2.55	0.42
2:mi:8:LEU:HD12	2:mi:8:LEU:N	2.35	0.42
2:mj:63:ARG:HE	2:mm:205:MET:CE	2.30	0.42
2:mn:107:GLY:HA3	2:mn:184:TYR:OH	2.19	0.42
2:mn:232:GLU:O	2:mn:236:GLN:HG2	2.19	0.42
2:mw:82:SER:HB2	2:mw:206:ALA:H	1.85	0.42
2:my:79:LEU:HD11	2:mB:59:TRP:HA	2.02	0.42
2:my:235:ASN:O	2:my:240:GLU:HB2	2.19	0.42
2:mA:281:GLN:O	2:mA:289:ASN:N	2.53	0.42
2:mB:107:GLY:HA3	2:mB:184:TYR:OH	2.19	0.42
2:mB:251:ALA:HB2	2:mB:257:LEU:HD21	2.01	0.42
2:mK:278:VAL:O	2:mK:278:VAL:HG23	2.19	0.42
2:mN:113:HIS:CE1	2:mN:117:LEU:HD11	2.54	0.42
2:mO:226:LEU:HA	2:mO:238:ASN:ND2	2.33	0.42
1:mQ:94:GLU:CG	2:oq:2:ALA:N	2.83	0.42
2:mX:18:LYS:HD2	2:mX:98:VAL:HG21	2.00	0.42
2:mY:201:GLU:O	2:mY:202:GLN:C	2.62	0.42
2:nc:263:LEU:HD23	2:nc:296:GLN:HE21	1.83	0.42
1:ne:58:PHE:HB3	1:ne:101:VAL:HG13	2.02	0.42
1:nf:101:VAL:HG22	1:nf:102:GLU:N	2.35	0.42
2:nm:68:MET:SD	2:oE:102:LEU:HD13	2.59	0.42
2:nm:213:VAL:HG12	2:nm:214:ARG:O	2.20	0.42
2:nn:13:LYS:HB3	2:np:43:ALA:HB3	2.02	0.42
2:no:66:LYS:HB2	2:np:84:VAL:HG12	2.02	0.42
2:np:20:PHE:N	2:np:20:PHE:CD1	2.87	0.42
2:nr:122:LEU:C	2:nr:122:LEU:HD23	2.45	0.42
1:ns:65:ARG:HG2	1:ns:96:ASP:HB2	2.02	0.42
1:nv:86:SER:O	1:nv:90:LEU:N	2.50	0.42
2:nA:201:GLU:O	2:nA:202:GLN:C	2.62	0.42
2:nA:213:VAL:HG12	2:nA:214:ARG:O	2.20	0.42
2:nB:208:GLU:OE1	2:nB:210:ARG:NE	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nF:182:LEU:O	2:nF:182:LEU:CD1	2.67	0.42
1:nI:63:VAL:HG22	1:nI:75:LYS:N	2.35	0.42
2:nO:2:ALA:N	1:oi:94:GLU:CG	2.82	0.42
2:nP:226:LEU:HD22	2:nP:270:LEU:HD22	2.00	0.42
2:nP:280:VAL:HG22	2:nP:282:ARG:H	1.85	0.42
2:nQ:234:LEU:HG	2:nQ:239:PHE:HB2	2.02	0.42
2:nR:187:ARG:O	2:nR:187:ARG:CG	2.68	0.42
2:nS:248:ASN:OD1	2:nS:248:ASN:O	2.38	0.42
2:nT:276:GLU:OE2	2:nT:280:VAL:HG21	2.19	0.42
2:oc:173:LEU:HA	2:oc:215:SER:HB3	2.01	0.42
2:od:53:PHE:O	2:od:255:ARG:NH2	2.43	0.42
2:oe:277:VAL:O	2:oe:289:ASN:ND2	2.48	0.42
2:of:88:ARG:O	2:of:91:ILE:HG12	2.19	0.42
2:oh:64:VAL:O	2:oh:64:VAL:HG23	2.19	0.42
1:on:86:SER:O	1:on:90:LEU:N	2.50	0.42
2:oq:201:GLU:O	2:oq:202:GLN:C	2.62	0.42
2:oE:191:SER:CB	2:oJ:191:SER:HB3	2.50	0.42
2:oE:213:VAL:HG12	2:oE:214:ARG:O	2.20	0.42
2:oG:235:ASN:O	2:oG:240:GLU:HB2	2.19	0.42
2:oH:228:ALA:O	2:oH:284:ALA:HB2	2.20	0.42
1:oL:101:VAL:HG22	1:oL:102:GLU:N	2.35	0.42
1:oN:57:VAL:O	1:oN:59:VAL:HG23	2.19	0.42
2:oS:177:ARG:HH11	2:oS:177:ARG:HG3	1.83	0.42
2:oT:24:LEU:HD11	2:oV:257:LEU:HD12	2.01	0.42
2:oT:208:GLU:OE1	2:oT:210:ARG:NE	2.53	0.42
2:oV:88:ARG:O	2:oV:91:ILE:HG12	2.19	0.42
1:oY:57:VAL:O	1:oY:79:GLY:O	2.38	0.42
1:oY:58:PHE:HB3	1:oY:101:VAL:HG13	2.02	0.42
1:oY:59:VAL:HG12	1:oY:61:ALA:N	2.28	0.42
2:pg:77:ASN:HD21	2:pg:179:LEU:HD11	1.84	0.42
2:pj:30:THR:HG21	2:pj:298:LEU:HD13	2.01	0.42
2:pu:141:HIS:HB3	2:pu:143:VAL:HG23	2.01	0.42
2:pv:208:GLU:OE1	2:pv:210:ARG:NE	2.53	0.42
2:px:228:ALA:O	2:px:284:ALA:HB2	2.20	0.42
2:pN:106:MET:HE3	2:pN:206:ALA:HB3	2.02	0.42
2:pN:107:GLY:HA3	2:pN:184:TYR:OH	2.19	0.42
2:pN:273:LYS:HA	2:pN:273:LYS:HD2	1.93	0.42
1:pO:63:VAL:HG23	1:pO:78:GLN:H	1.84	0.42
2:pV:224:TRP:CE3	2:pV:226:LEU:HD12	2.55	0.42
2:pY:234:LEU:HG	2:pY:239:PHE:HB2	2.02	0.42
2:qb:106:MET:HE3	2:qb:206:ALA:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:qe:117:ASP:O	4:qn:6:TYR:OH	2.33	0.42
3:qf:65:GLY:O	4:ql:8:TYR:CE2	2.72	0.42
3:qg:31:VAL:CG1	3:qg:48:TYR:HA	2.49	0.42
3:qi:31:VAL:CG1	3:qi:48:TYR:HA	2.49	0.42
4:qk:80:LEU:HA	4:qk:83:THR:HG22	2.02	0.42
4:qn:74:SER:HA	4:qo:5:THR:O	2.20	0.42
5:qv:239:TYR:CZ	6:qy:123:ASN:HB3	2.52	0.42
6:qw:8:ASP:HB3	6:qy:39:ARG:NH2	2.35	0.42
6:qy:17:LYS:CE	6:qA:81:ILE:HG21	2.49	0.42
5:qz:85:ILE:HD13	5:qz:331:LEU:HD12	2.02	0.42
6:qA:17:LYS:CE	6:qC:81:ILE:HG21	2.49	0.42
5:qD:42:PRO:CD	6:qI:133:ASP:OD1	2.59	0.42
6:qI:112:LEU:HD21	6:qK:58:LEU:HD12	0.51	0.42
6:qK:133:ASP:O	6:qK:134:TRP:HB2	2.19	0.42
1:aa:101:VAL:HG22	1:aa:102:GLU:N	2.35	0.42
2:ah:98:VAL:HG21	2:oX:9:ILE:HD11	2.02	0.42
2:ai:70:ALA:HB2	2:fD:9:ILE:HD11	2.01	0.42
2:al:5:THR:HG22	1:fw:87:ASP:HB3	2.02	0.42
2:al:248:ASN:OD1	2:al:248:ASN:O	2.38	0.42
2:am:251:ALA:HB2	2:am:257:LEU:HD21	2.01	0.42
1:ao:60:ARG:HG2	1:hO:99:LEU:HD22	2.01	0.42
2:aw:90:ASP:O	2:ko:13:LYS:NZ	2.52	0.42
2:aw:148:ASP:OD1	2:aw:149:GLY:N	2.53	0.42
1:aC:99:LEU:HD21	1:kK:60:ARG:HH21	0.59	0.42
2:aI:82:SER:HB2	2:aI:206:ALA:H	1.85	0.42
2:aI:102:LEU:HD13	2:iX:68:MET:SD	2.59	0.42
2:aM:77:ASN:ND2	2:aM:209:TYR:O	2.53	0.42
2:aN:264:LEU:HB2	2:aN:295:VAL:HG11	2.02	0.42
1:aQ:63:VAL:HG22	1:aQ:75:LYS:N	2.35	0.42
1:aR:103:ARG:NE	2:bl:61:GLY:CA	2.83	0.42
2:aW:201:GLU:O	2:aW:202:GLN:C	2.62	0.42
2:aX:19:HIS:NE2	2:aZ:38:ILE:HD13	2.34	0.42
2:aZ:30:THR:HG21	2:aZ:298:LEU:HD13	2.01	0.42
2:bb:106:MET:HE3	2:bb:206:ALA:HB3	2.02	0.42
1:bd:90:LEU:HB3	2:ja:4:ILE:HG23	2.02	0.42
1:be:103:ARG:H	2:kq:62:GLN:HG2	1.85	0.42
1:bh:86:SER:O	1:bh:90:LEU:N	2.51	0.42
2:bj:189:LYS:O	2:bj:190:PRO:C	2.61	0.42
2:bk:8:LEU:HD12	2:bk:8:LEU:N	2.35	0.42
2:bk:213:VAL:HG12	2:bk:214:ARG:O	2.20	0.42
2:bl:70:ALA:HB2	2:jp:9:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bn:88:ARG:O	2:bn:91:ILE:HG12	2.19	0.42
2:bo:5:THR:HG22	1:ji:87:ASP:CB	2.49	0.42
1:br:90:LEU:HB3	2:fa:4:ILE:HG23	2.02	0.42
1:br:99:LEU:HA	2:bB:62:GLN:NE2	2.34	0.42
2:bx:13:LYS:NZ	2:df:90:ASP:O	2.52	0.42
2:bx:182:LEU:H	2:bx:182:LEU:HD23	1.85	0.42
2:by:102:LEU:HD13	2:hT:68:MET:SD	2.59	0.42
2:bz:63:ARG:NH2	2:bC:207:ASP:OD1	2.53	0.42
2:bO:9:ILE:O	2:bO:9:ILE:CG2	2.68	0.42
2:bQ:106:MET:HE3	2:bQ:206:ALA:HB3	2.02	0.42
1:bU:57:VAL:O	1:bU:59:VAL:HG23	2.19	0.42
2:bZ:42:THR:HG22	2:bZ:43:ALA:H	1.85	0.42
2:bZ:141:HIS:HB3	2:bZ:143:VAL:HG23	2.01	0.42
2:cc:88:ARG:O	2:cc:91:ILE:HG12	2.19	0.42
2:cd:144:TYR:HB3	2:cd:145:PRO:HD3	2.01	0.42
1:ch:63:VAL:HG22	1:ch:75:LYS:N	2.35	0.42
1:ck:60:ARG:CB	1:ck:102:GLU:HB3	2.50	0.42
1:cl:102:GLU:HA	2:iv:198:GLU:CD	2.44	0.42
2:cp:235:ASN:O	2:cp:240:GLU:HB2	2.19	0.42
2:cr:5:THR:HG22	1:lp:87:ASP:CB	2.49	0.42
1:ct:65:ARG:HG2	1:ct:96:ASP:HB2	2.02	0.42
1:cy:60:ARG:CB	1:cy:102:GLU:HB3	2.50	0.42
2:cD:90:ASP:O	2:cO:13:LYS:NZ	2.52	0.42
2:cD:230:SER:O	2:cD:231:THR:HG22	2.20	0.42
2:cG:64:VAL:O	2:cG:64:VAL:HG23	2.19	0.42
1:cM:86:SER:O	1:cM:90:LEU:N	2.51	0.42
2:cP:21:GLN:O	2:cP:22:ASP:OD1	2.37	0.42
2:cP:201:GLU:O	2:cP:202:GLN:C	2.62	0.42
2:cP:213:VAL:HG12	2:cP:214:ARG:O	2.20	0.42
2:cQ:19:HIS:NE2	2:cS:38:ILE:HD13	2.34	0.42
2:cQ:63:ARG:HE	2:cT:205:MET:CE	2.30	0.42
2:cT:144:TYR:HB3	2:cT:145:PRO:HD3	2.01	0.42
1:cW:99:LEU:HA	2:dg:62:GLN:NE2	2.34	0.42
2:de:197:LYS:CE	1:gy:99:LEU:HA	2.48	0.42
2:di:107:GLY:HA3	2:di:184:TYR:OH	2.19	0.42
1:dk:82:ASP:OD1	1:dk:83:GLY:N	2.51	0.42
1:do:60:ARG:CB	1:do:102:GLU:HB3	2.50	0.42
2:dw:246:MET:HA	2:dw:249:GLN:HG2	2.00	0.42
1:dz:102:GLU:HG2	2:gF:62:GLN:HE21	1.84	0.42
1:dA:57:VAL:O	1:dA:59:VAL:HG23	2.19	0.42
1:dD:102:GLU:HA	2:eX:198:GLU:CD	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dF:42:THR:HG22	2:dF:43:ALA:H	1.85	0.42
2:dG:208:GLU:OE1	2:dG:210:ARG:NE	2.53	0.42
2:dH:79:LEU:HD11	2:dK:59:TRP:HA	2.02	0.42
1:dN:63:VAL:HG22	1:dN:75:LYS:N	2.35	0.42
2:dV:230:SER:O	2:dV:231:THR:HG22	2.20	0.42
2:dY:245:ALA:O	2:dY:249:GLN:HG2	2.20	0.42
1:dZ:58:PHE:HB3	1:dZ:101:VAL:HG13	2.02	0.42
1:dZ:59:VAL:HG12	1:dZ:61:ALA:N	2.28	0.42
1:dZ:100:LYS:HD3	1:nM:100:LYS:HZ1	1.78	0.42
2:el:144:TYR:HB3	2:el:145:PRO:HD3	2.01	0.42
1:en:94:GLU:CG	2:nA:2:ALA:N	2.83	0.42
1:es:87:ASP:CB	2:og:5:THR:HG22	2.49	0.42
2:ev:201:GLU:O	2:ev:202:GLN:C	2.62	0.42
2:ey:4:ILE:HG23	1:oZ:90:LEU:HB3	2.02	0.42
2:ey:123:LYS:HD3	2:ey:303:LEU:HB2	2.02	0.42
2:ez:9:ILE:HD11	2:od:70:ALA:HB2	2.01	0.42
2:eA:106:MET:HE3	2:eA:206:ALA:HB3	2.02	0.42
1:eE:57:VAL:O	1:eE:59:VAL:HG23	2.19	0.42
1:eH:57:VAL:CG1	1:eH:59:VAL:HG13	2.50	0.42
2:eK:24:LEU:HD11	2:eM:257:LEU:HD12	2.00	0.42
2:eM:187:ARG:O	2:eM:187:ARG:CG	2.68	0.42
2:eN:160:PHE:HB2	2:eN:270:LEU:HD11	2.00	0.42
2:eO:30:THR:HG23	2:eO:298:LEU:HD13	2.02	0.42
2:eO:62:GLN:HB3	1:fe:103:ARG:O	2.20	0.42
2:eO:251:ALA:HB2	2:eO:257:LEU:HD21	2.01	0.42
1:eT:96:ASP:OD1	2:fb:64:VAL:HG13	2.19	0.42
2:eY:63:ARG:NH2	2:fb:207:ASP:OD1	2.53	0.42
2:fc:228:ALA:HB3	2:fc:273:LYS:HE3	2.02	0.42
1:ff:103:ARG:H	2:ij:62:GLN:HG2	1.85	0.42
2:fk:229:MET:HB3	2:fk:234:LEU:HD22	2.01	0.42
2:fl:8:LEU:HD12	2:fl:8:LEU:N	2.35	0.42
2:fm:61:GLY:HA2	1:gy:103:ARG:NE	2.35	0.42
2:fp:281:GLN:O	2:fp:289:ASN:N	2.53	0.42
1:fs:103:ARG:O	2:oh:62:GLN:HB3	2.20	0.42
1:fu:57:VAL:O	1:fu:59:VAL:HG23	2.19	0.42
2:fy:13:LYS:NZ	2:no:90:ASP:O	2.52	0.42
2:fz:75:ILE:HG21	2:fz:177:ARG:NH1	2.32	0.42
1:fg:60:ARG:HG2	1:ha:99:LEU:HD22	2.01	0.42
1:fl:103:ARG:NE	2:gc:61:GLY:HA2	2.35	0.42
2:fo:70:ALA:HB2	2:kG:9:ILE:HD11	2.01	0.42
2:fo:280:VAL:HG22	2:fo:282:ARG:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FR:263:LEU:HD23	2:FR:296:GLN:HE21	1.83	0.42
2:FS:62:GLN:HB3	1:mp:103:ARG:O	2.20	0.42
1:FU:101:VAL:HG22	1:FU:102:GLU:N	2.35	0.42
1:FY:87:ASP:HB3	2:mA:5:THR:HG22	2.02	0.42
1:fZ:57:VAL:CG1	1:fZ:59:VAL:HG13	2.50	0.42
2:gd:90:ASP:O	2:ig:13:LYS:NZ	2.52	0.42
2:ge:228:ALA:O	2:ge:284:ALA:HB2	2.20	0.42
2:gg:276:GLU:OE2	2:gg:280:VAL:HG21	2.19	0.42
1:gk:99:LEU:HD22	1:gK:60:ARG:HG2	2.01	0.42
1:gm:57:VAL:HG22	1:gm:104:CYS:H	1.84	0.42
2:go:193:THR:HG22	2:hT:193:THR:HG23	1.99	0.42
2:gp:75:ILE:HG21	2:gp:177:ARG:NH1	2.32	0.42
2:gq:280:VAL:HG22	2:gq:282:ARG:H	1.85	0.42
2:gs:144:TYR:CG	2:gs:145:PRO:HD2	2.55	0.42
2:gt:248:ASN:OD1	2:gt:248:ASN:O	2.38	0.42
1:gx:63:VAL:HG22	1:gx:75:LYS:N	2.35	0.42
2:gE:63:ARG:HE	2:gH:205:MET:CE	2.30	0.42
2:gE:208:GLU:OE1	2:gE:210:ARG:NE	2.53	0.42
2:gG:144:TYR:CG	2:gG:145:PRO:HD2	2.55	0.42
1:gP:57:VAL:CG1	1:gP:59:VAL:HG13	2.50	0.42
2:gQ:13:LYS:NZ	2:ij:90:ASP:O	2.52	0.42
2:gS:63:ARG:NH2	2:gV:207:ASP:OD1	2.53	0.42
2:gT:36:THR:HG22	2:gT:175:THR:HG22	2.00	0.42
2:gT:144:TYR:HB3	2:gT:145:PRO:CD	2.49	0.42
2:gV:144:TYR:HB3	2:gV:145:PRO:HD3	2.01	0.42
2:gW:122:LEU:HD23	2:gW:122:LEU:C	2.45	0.42
2:gW:251:ALA:HB2	2:gW:257:LEU:HD21	2.01	0.42
1:ha:103:ARG:NE	2:kD:61:GLY:CA	2.83	0.42
1:hd:57:VAL:CG1	1:hd:59:VAL:HG13	2.50	0.42
2:hF:68:MET:SD	2:lG:102:LEU:HD13	2.59	0.42
2:hF:282:ARG:NH2	2:lG:282:ARG:HH11	1.93	0.42
2:hk:236:GLN:CB	2:hk:240:GLU:HB3	2.49	0.42
2:hu:230:SER:O	2:hu:231:THR:HG22	2.20	0.42
2:hv:9:ILE:O	2:hv:9:ILE:CG2	2.68	0.42
2:hw:144:TYR:HB3	2:hw:145:PRO:HD3	2.01	0.42
2:hX:106:MET:HE3	2:hX:206:ALA:HB3	2.02	0.42
1:hA:63:VAL:HG22	1:hA:75:LYS:N	2.35	0.42
2:hG:13:LYS:HB3	2:hI:43:ALA:HB3	2.02	0.42
2:hJ:5:THR:HG22	1:kN:87:ASP:CB	2.49	0.42
2:hK:64:VAL:O	2:hK:64:VAL:HG23	2.19	0.42
2:hW:20:PHE:N	2:hW:20:PHE:CD1	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hY:106:MET:HE3	2:hY:206:ALA:HB3	2.02	0.42
2:hY:182:LEU:O	2:hY:182:LEU:CD1	2.67	0.42
2:ig:229:MET:HB3	2:ig:234:LEU:HD22	2.01	0.42
2:ij:230:SER:O	2:ij:231:THR:HG22	2.20	0.42
1:in:57:VAL:O	1:in:79:GLY:O	2.38	0.42
2:iu:224:TRP:CE3	2:iu:226:LEU:HD12	2.55	0.42
2:iv:68:MET:SD	2:jN:102:LEU:HD13	2.59	0.42
2:ix:62:GLN:HE21	1:pQ:102:GLU:HG2	1.84	0.42
2:iz:9:ILE:HD11	2:or:70:ALA:HB2	2.01	0.42
2:iz:238:ASN:O	2:iz:242:VAL:CG2	2.62	0.42
2:iA:215:SER:OG	2:iA:216:ARG:N	2.52	0.42
2:iA:246:MET:HA	2:iA:249:GLN:HG2	2.00	0.42
2:iA:264:LEU:HB2	2:iA:295:VAL:HG11	2.02	0.42
1:iB:58:PHE:HB3	1:iB:101:VAL:HG13	2.02	0.42
1:iC:98:LEU:HG	2:iM:62:GLN:CD	2.44	0.42
1:iD:103:ARG:H	2:pw:62:GLN:HG2	1.85	0.42
2:iJ:219:VAL:O	2:iJ:219:VAL:CG1	2.66	0.42
2:iK:13:LYS:HB3	2:iM:43:ALA:HB3	2.01	0.42
2:iK:59:TRP:CE3	2:iN:79:LEU:HD13	2.54	0.42
2:iL:144:TYR:HB3	2:iL:145:PRO:CD	2.49	0.42
2:iL:148:ASP:OD1	2:iL:149:GLY:N	2.53	0.42
2:iL:234:LEU:HG	2:iL:239:PHE:HB2	2.02	0.42
2:iL:235:ASN:O	2:iL:240:GLU:HB2	2.19	0.42
2:iO:107:GLY:HA3	2:iO:184:TYR:OH	2.19	0.42
1:iP:58:PHE:HB3	1:iP:101:VAL:HG13	2.02	0.42
2:iZ:90:ASP:O	2:jk:13:LYS:NZ	2.52	0.42
2:ja:228:ALA:O	2:ja:284:ALA:HB2	2.20	0.42
2:jm:19:HIS:NE2	2:jo:38:ILE:HD13	2.34	0.42
2:jm:59:TRP:CE3	2:jp:79:LEU:HD13	2.54	0.42
2:jm:280:VAL:HG22	2:jm:282:ARG:H	1.85	0.42
2:jn:235:ASN:O	2:jn:240:GLU:HB2	2.19	0.42
2:jo:88:ARG:O	2:jo:91:ILE:HG12	2.19	0.42
2:jQ:106:MET:HE3	2:jQ:206:ALA:HB3	2.02	0.42
1:jR:58:PHE:HB3	1:jR:101:VAL:HG13	2.02	0.42
1:jT:103:ARG:H	2:kd:62:GLN:HG2	1.85	0.42
1:ju:57:VAL:O	1:ju:59:VAL:HG23	2.19	0.42
1:jw:87:ASP:HB3	2:lK:5:THR:HG22	2.02	0.42
2:jB:230:SER:O	2:jB:231:THR:HG22	2.20	0.42
2:jC:228:ALA:O	2:jC:284:ALA:HB2	2.20	0.42
2:jD:9:ILE:HD11	2:lH:70:ALA:HB2	2.01	0.42
2:jE:185:GLN:O	2:jE:205:MET:N	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jE:251:ALA:HB2	2:jE:257:LEU:HD21	2.01	0.42
1:jF:58:PHE:HB3	1:jF:101:VAL:HG13	2.02	0.42
2:jM:224:TRP:CE3	2:jM:226:LEU:HD12	2.55	0.42
2:jN:21:GLN:O	2:jN:22:ASP:OD1	2.37	0.42
2:jN:141:HIS:HB3	2:jN:143:VAL:HG23	2.01	0.42
1:jV:63:VAL:HG22	1:jV:75:LYS:N	2.35	0.42
2:kc:24:LEU:HD11	2:ke:257:LEU:HD12	2.00	0.42
2:kg:232:GLU:O	2:kg:236:GLN:HG2	2.19	0.42
2:kr:144:TYR:CG	2:kr:145:PRO:HD2	2.55	0.42
2:kr:187:ARG:O	2:kr:187:ARG:CG	2.68	0.42
1:kv:101:VAL:HG22	1:kv:102:GLU:N	2.35	0.42
1:kx:103:ARG:NE	2:kR:61:GLY:CA	2.83	0.42
1:kA:60:ARG:HD2	1:kA:102:GLU:OE1	2.20	0.42
2:kC:98:VAL:HG21	2:kV:9:ILE:HD11	2.02	0.42
2:kC:201:GLU:O	2:kC:202:GLN:C	2.62	0.42
2:kF:144:TYR:CG	2:kF:145:PRO:HD2	2.55	0.42
1:kI:57:VAL:O	1:kI:79:GLY:O	2.38	0.42
1:kM:60:ARG:HB2	1:kM:102:GLU:O	2.18	0.42
1:kO:57:VAL:CG1	1:kO:59:VAL:HG13	2.50	0.42
2:kR:63:ARG:NH2	2:kU:207:ASP:OD1	2.53	0.42
2:kT:228:ALA:O	2:kT:284:ALA:HB2	2.20	0.42
2:kV:106:MET:HE3	2:kV:206:ALA:HB3	2.02	0.42
1:kX:103:ARG:O	2:oJ:62:GLN:HB3	2.20	0.42
2:ld:13:LYS:NZ	2:mM:90:ASP:O	2.52	0.42
2:le:8:LEU:HD12	2:le:8:LEU:N	2.35	0.42
2:le:201:GLU:O	2:le:202:GLN:C	2.62	0.42
2:lg:234:LEU:HG	2:lg:239:PHE:HB2	2.02	0.42
2:lh:187:ARG:O	2:lh:187:ARG:CG	2.68	0.42
2:lj:106:MET:HE3	2:lj:206:ALA:HB3	2.02	0.42
2:lj:215:SER:OG	2:lj:216:ARG:N	2.52	0.42
2:lj:246:MET:HA	2:lj:249:GLN:HG2	2.00	0.42
1:lk:59:VAL:HG12	1:lk:61:ALA:N	2.28	0.42
1:lp:101:VAL:HG23	1:lp:101:VAL:O	2.19	0.42
2:lw:281:GLN:O	2:lw:289:ASN:N	2.53	0.42
2:lx:62:GLN:HE22	1:pP:104:CYS:HA	1.82	0.42
2:lx:228:ALA:HB3	2:lx:273:LYS:HE3	2.02	0.42
2:lx:246:MET:HA	2:lx:249:GLN:HG2	2.00	0.42
1:ly:65:ARG:HG2	1:ly:96:ASP:HB2	2.02	0.42
1:lz:82:ASP:OD1	1:lz:83:GLY:N	2.51	0.42
1:lB:99:LEU:HD22	1:ox:60:ARG:HG2	2.01	0.42
2:lG:191:SER:CB	2:lL:191:SER:HB3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:II:79:LEU:HD11	2:IL:59:TRP:HA	2.02	0.42
2:IJ:144:TYR:CG	2:IJ:145:PRO:HD2	2.55	0.42
1:IM:94:GLU:CG	2:mY:2:ALA:N	2.83	0.42
1:IP:57:VAL:O	1:IP:59:VAL:HG23	2.19	0.42
1:IR:101:VAL:HG23	1:IR:101:VAL:O	2.18	0.42
2:IV:24:LEU:HD11	2:IX:257:LEU:HD12	2.00	0.42
2:IW:148:ASP:OD1	2:IW:149:GLY:N	2.53	0.42
2:IZ:106:MET:HE3	2:IZ:206:ALA:HB3	2.02	0.42
2:IZ:232:GLU:O	2:IZ:236:GLN:HG2	2.19	0.42
1:mb:82:ASP:OD1	1:mb:83:GLY:N	2.51	0.42
1:mf:60:ARG:CB	1:mf:102:GLU:HB3	2.50	0.42
2:mh:226:LEU:O	2:mh:273:LYS:NZ	2.48	0.42
2:mi:205:MET:CE	2:mw:63:ARG:HD2	2.49	0.42
2:mi:213:VAL:HG12	2:mi:214:ARG:O	2.20	0.42
2:mK:230:SER:O	2:mK:231:THR:HG22	2.20	0.42
1:mr:57:VAL:O	1:mr:59:VAL:HG23	2.19	0.42
1:mu:57:VAL:CG1	1:mu:59:VAL:HG13	2.50	0.42
2:mw:191:SER:CB	2:mB:191:SER:HB3	2.50	0.42
2:mA:248:ASN:OD1	2:mA:248:ASN:O	2.38	0.42
1:mC:65:ARG:HG2	1:mC:96:ASP:HB2	2.02	0.42
2:mL:24:LEU:HD11	2:mN:257:LEU:HD12	2.01	0.42
2:mO:77:ASN:ND2	2:mO:209:TYR:O	2.53	0.42
2:mP:182:LEU:O	2:mP:182:LEU:CD1	2.67	0.42
2:mZ:13:LYS:HB3	2:nb:43:ALA:HB3	2.02	0.42
2:nb:88:ARG:O	2:nb:91:ILE:HG12	2.19	0.42
2:nb:144:TYR:CG	2:nb:145:PRO:HD2	2.55	0.42
2:nc:144:TYR:HB3	2:nc:145:PRO:HD3	2.01	0.42
1:nk:99:LEU:HD23	1:oK:102:GLU:CG	2.19	0.42
2:nn:24:LEU:HD11	2:np:257:LEU:HD12	2.01	0.42
2:nn:61:GLY:CA	1:oz:103:ARG:NE	2.83	0.42
2:np:187:ARG:O	2:np:187:ARG:CG	2.68	0.42
2:nA:278:VAL:O	2:nA:278:VAL:HG23	2.19	0.42
2:nB:24:LEU:HD11	2:nD:257:LEU:HD12	2.01	0.42
1:nJ:86:SER:O	1:nJ:90:LEU:N	2.50	0.42
1:nL:60:ARG:CB	1:nL:102:GLU:HB3	2.50	0.42
2:nO:213:VAL:HG12	2:nO:214:ARG:O	2.20	0.42
2:nP:208:GLU:OE1	2:nP:210:ARG:NE	2.53	0.42
2:nT:106:MET:HE3	2:nT:206:ALA:HB3	2.02	0.42
1:nU:100:LYS:CE	1:oa:100:LYS:HZ1	2.30	0.42
1:nV:101:VAL:HG22	1:nV:102:GLU:N	2.35	0.42
1:nY:60:ARG:HB2	1:nY:102:GLU:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ob:18:LYS:HD2	2:ob:98:VAL:HG21	2.00	0.42
2:oe:234:LEU:HG	2:oe:239:PHE:HB2	2.02	0.42
2:of:228:ALA:O	2:of:284:ALA:HB2	2.20	0.42
2:oh:106:MET:HE3	2:oh:206:ALA:HB3	2.02	0.42
2:oh:236:GLN:CB	2:oh:240:GLU:HB3	2.49	0.42
2:og:21:GLN:O	2:og:22:ASP:OD1	2.37	0.42
1:oB:59:VAL:O	1:oB:59:VAL:HG13	2.18	0.42
1:oB:60:ARG:CB	1:oB:102:GLU:HB3	2.50	0.42
1:oC:57:VAL:CG1	1:oC:59:VAL:HG13	2.50	0.42
2:oF:208:GLU:OE1	2:oF:210:ARG:NE	2.53	0.42
2:oH:9:ILE:O	2:oH:9:ILE:CG2	2.68	0.42
2:oH:113:HIS:CE1	2:oH:117:LEU:HD11	2.54	0.42
2:oJ:106:MET:HE3	2:oJ:206:ALA:HB3	2.02	0.42
2:oW:77:ASN:ND2	2:oW:209:TYR:O	2.53	0.42
2:oX:64:VAL:O	2:oX:64:VAL:HG23	2.19	0.42
1:pd:60:ARG:CB	1:pd:102:GLU:HB3	2.50	0.42
2:pg:42:THR:HG22	2:pg:43:ALA:H	1.85	0.42
2:pg:141:HIS:HB3	2:pg:143:VAL:HG23	2.01	0.42
2:pi:66:LYS:HB2	2:pj:84:VAL:HG12	2.01	0.42
2:pl:106:MET:HE3	2:pl:206:ALA:HB3	2.02	0.42
2:pl:215:SER:OG	2:pl:216:ARG:N	2.52	0.42
1:pm:57:VAL:O	1:pm:79:GLY:O	2.38	0.42
2:py:144:TYR:HB3	2:py:145:PRO:HD3	2.01	0.42
2:pz:64:VAL:O	2:pz:64:VAL:HG23	2.19	0.42
1:pA:57:VAL:O	1:pA:79:GLY:O	2.38	0.42
1:pA:63:VAL:HG23	1:pA:78:GLN:H	1.84	0.42
1:pB:98:LEU:HG	2:pL:62:GLN:CD	2.44	0.42
2:pH:182:LEU:H	2:pH:182:LEU:HD23	1.85	0.42
2:pI:8:LEU:HD12	2:pI:8:LEU:N	2.35	0.42
2:pJ:19:HIS:NE2	2:pL:38:ILE:HD13	2.34	0.42
2:pN:246:MET:HA	2:pN:249:GLN:HG2	2.00	0.42
2:pV:182:LEU:H	2:pV:182:LEU:HD23	1.85	0.42
2:pY:230:SER:O	2:pY:231:THR:HG22	2.20	0.42
3:qe:31:VAL:CG1	3:qe:48:TYR:HA	2.49	0.42
3:qe:31:VAL:HG13	3:qe:48:TYR:CD1	2.55	0.42
3:qe:64:GLY:CA	4:ql:219:ILE:CG2	2.97	0.42
3:qf:31:VAL:HG13	3:qf:48:TYR:CD1	2.55	0.42
3:qf:37:LEU:HD12	3:qf:42:GLN:NE2	2.34	0.42
3:qi:61:ASP:O	4:qo:33:SER:OG	2.35	0.42
3:qi:136:TYR:O	3:qi:137:LEU:HG	2.19	0.42
4:ql:179:THR:HG22	4:qm:247:GLY:CA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qp:73:HIS:O	5:qp:77:GLU:HG2	2.20	0.42
5:qr:248:LYS:NZ	6:qu:121:VAL:CG1	2.80	0.42
6:qu:112:LEU:CD1	6:qw:58:LEU:HD12	2.48	0.42
6:qw:17:LYS:CE	6:qy:81:ILE:HG21	2.49	0.42
5:qx:73:HIS:O	5:qx:77:GLU:HG2	2.20	0.42
5:qx:304:THR:OG1	5:qx:326:VAL:HG21	2.20	0.42
5:qD:73:HIS:O	5:qD:77:GLU:HG2	2.20	0.42
5:qD:85:ILE:HD13	5:qD:331:LEU:HD12	2.02	0.42
5:qD:252:LEU:CD2	6:qG:126:GLN:HG2	2.36	0.42
5:qF:85:ILE:HD13	5:qF:331:LEU:HD12	2.02	0.42
5:qJ:380:MET:CE	5:qJ:403:LEU:HD21	2.44	0.42
2:ah:213:VAL:HG12	2:ah:214:ARG:O	2.20	0.42
2:ah:278:VAL:HG23	2:ah:278:VAL:O	2.19	0.42
2:ak:144:TYR:CG	2:ak:145:PRO:HD2	2.55	0.42
2:am:246:MET:HA	2:am:249:GLN:HG2	2.00	0.42
2:ax:20:PHE:N	2:ax:20:PHE:CD1	2.87	0.42
2:ay:77:ASN:ND2	2:ay:209:TYR:O	2.53	0.42
2:az:299:ASP:O	2:az:300:THR:OG1	2.36	0.42
2:aI:77:ASN:HD21	2:aI:179:LEU:HD11	1.84	0.42
2:aI:192:PHE:HZ	2:aN:196:THR:HG21	1.83	0.42
2:aK:235:ASN:O	2:aK:240:GLU:HB2	2.19	0.42
2:aM:281:GLN:O	2:aM:289:ASN:N	2.53	0.42
2:aN:106:MET:HE3	2:aN:206:ALA:HB3	2.02	0.42
2:aN:228:ALA:HB3	2:aN:273:LYS:HE3	2.02	0.42
2:aN:245:ALA:O	2:aN:249:GLN:HG2	2.20	0.42
1:aO:57:VAL:O	1:aO:79:GLY:O	2.38	0.42
2:aY:230:SER:O	2:aY:231:THR:HG22	2.20	0.42
2:aZ:187:ARG:CG	2:aZ:187:ARG:O	2.68	0.42
2:ba:77:ASN:ND2	2:ba:209:TYR:O	2.53	0.42
2:ba:160:PHE:HB2	2:ba:270:LEU:HD11	2.00	0.42
2:ba:281:GLN:O	2:ba:289:ASN:N	2.53	0.42
1:bd:60:ARG:HG2	1:iS:99:LEU:HD22	2.01	0.42
1:bh:87:ASP:CB	2:jp:5:THR:HG22	2.49	0.42
1:bi:60:ARG:HD2	1:bi:102:GLU:OE1	2.20	0.42
2:bk:198:GLU:CD	1:dp:102:GLU:HA	2.44	0.42
2:bk:278:VAL:HG23	2:bk:278:VAL:O	2.19	0.42
2:bp:107:GLY:HA3	2:bp:184:TYR:OH	2.19	0.42
2:bp:226:LEU:HA	2:bp:238:ASN:ND2	2.35	0.42
1:br:101:VAL:HG22	1:br:102:GLU:N	2.35	0.42
2:by:2:ALA:N	1:hZ:94:GLU:CG	2.83	0.42
2:bz:197:LYS:CE	1:eS:99:LEU:HA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bC:263:LEU:HD23	2:bC:296:GLN:HE21	1.83	0.42
2:bD:106:MET:HE3	2:bD:206:ALA:HB3	2.02	0.42
2:bD:228:ALA:HB3	2:bD:273:LYS:HE3	2.02	0.42
1:bF:90:LEU:HB3	2:gU:4:ILE:HG23	2.02	0.42
1:bF:103:ARG:O	2:gW:62:GLN:HB3	2.20	0.42
1:bK:57:VAL:CG1	1:bK:59:VAL:HG13	2.50	0.42
2:bM:208:GLU:OE1	2:bM:210:ARG:NE	2.53	0.42
2:bN:66:LYS:HB2	2:bO:84:VAL:HG12	2.02	0.42
2:bP:89:THR:N	2:bP:200:ASP:OD2	2.36	0.42
2:bP:248:ASN:O	2:bP:248:ASN:OD1	2.38	0.42
1:bU:86:SER:O	1:bU:90:LEU:N	2.50	0.42
1:bW:87:ASP:HB3	2:hX:5:THR:HG22	2.02	0.42
2:bZ:201:GLU:O	2:bZ:202:GLN:C	2.62	0.42
2:ca:208:GLU:OE1	2:ca:210:ARG:NE	2.53	0.42
2:cd:248:ASN:OD1	2:cd:248:ASN:O	2.38	0.42
1:cf:58:PHE:HB3	1:cf:101:VAL:HG13	2.02	0.42
1:cg:103:ARG:O	2:jq:62:GLN:HB3	2.20	0.42
2:cm:182:LEU:H	2:cm:182:LEU:HD23	1.85	0.42
2:cn:8:LEU:HD12	2:cn:8:LEU:N	2.35	0.42
2:cn:68:MET:SD	2:iv:102:LEU:HD13	2.59	0.42
2:cn:141:HIS:HB3	2:cn:143:VAL:HG23	2.01	0.42
2:co:280:VAL:HG22	2:co:282:ARG:H	1.85	0.42
2:cp:62:GLN:HE21	1:jf:102:GLU:HG2	1.84	0.42
2:cp:144:TYR:HB3	2:cp:145:PRO:CD	2.49	0.42
2:cr:5:THR:HG22	1:lp:87:ASP:HB3	2.02	0.42
1:cv:63:VAL:HG22	1:cv:75:LYS:N	2.35	0.42
1:cv:103:ARG:H	2:pK:62:GLN:HG2	1.85	0.42
1:cx:96:ASP:OD1	2:cF:64:VAL:HG13	2.19	0.42
2:cA:62:GLN:OE1	1:cL:102:GLU:HG2	2.02	0.42
2:cB:102:LEU:HD13	2:cP:68:MET:SD	2.59	0.42
2:cB:191:SER:CB	2:cG:191:SER:HB3	2.50	0.42
2:cB:205:MET:CE	2:cP:63:ARG:HD2	2.49	0.42
2:cC:61:GLY:HA2	1:pb:103:ARG:NE	2.35	0.42
2:cC:208:GLU:OE1	2:cC:210:ARG:NE	2.53	0.42
2:cG:62:GLN:HB3	1:pB:103:ARG:O	2.20	0.42
1:cH:65:ARG:HG2	1:cH:96:ASP:HB2	2.02	0.42
1:cI:90:LEU:HB3	2:px:4:ILE:HG23	2.02	0.42
1:cJ:102:GLU:HB3	1:iD:99:LEU:HD23	1.95	0.42
1:cK:99:LEU:HA	2:iK:197:LYS:CE	2.48	0.42
1:cK:103:ARG:NE	2:eY:61:GLY:HA2	2.35	0.42
1:cL:60:ARG:HB2	1:cL:102:GLU:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cO:224:TRP:CE3	2:cO:226:LEU:HD12	2.55	0.42
2:cP:75:ILE:HG21	2:cP:177:ARG:NH1	2.32	0.42
2:cR:62:GLN:HG2	1:po:103:ARG:H	1.85	0.42
2:cS:9:ILE:O	2:cS:9:ILE:CG2	2.68	0.42
2:cS:123:LYS:HD3	2:cS:303:LEU:HB2	2.02	0.42
2:cS:228:ALA:O	2:cS:284:ALA:HB2	2.20	0.42
1:cW:103:ARG:O	2:gI:62:GLN:HB3	2.20	0.42
1:cX:99:LEU:HB3	1:gx:102:GLU:CD	2.37	0.42
2:dc:13:LYS:NZ	2:eL:90:ASP:O	2.52	0.42
2:dc:224:TRP:CE3	2:dc:226:LEU:HD12	2.55	0.42
2:de:208:GLU:OE1	2:de:210:ARG:NE	2.53	0.42
2:df:66:LYS:HB2	2:dg:84:VAL:HG12	2.02	0.42
2:df:234:LEU:HG	2:df:239:PHE:HB2	2.02	0.42
2:dg:144:TYR:CG	2:dg:145:PRO:HD2	2.55	0.42
2:dh:77:ASN:ND2	2:dh:209:TYR:O	2.53	0.42
2:di:245:ALA:O	2:di:249:GLN:HG2	2.20	0.42
1:dj:94:GLU:CG	2:eJ:2:ALA:N	2.83	0.42
1:dm:99:LEU:HD22	1:hM:60:ARG:HG2	2.01	0.42
2:dr:21:GLN:O	2:dr:22:ASP:OD1	2.37	0.42
2:ds:24:LEU:HD11	2:du:257:LEU:HD12	2.01	0.42
2:du:187:ARG:O	2:du:187:ARG:CG	2.68	0.42
2:dv:281:GLN:O	2:dv:289:ASN:N	2.53	0.42
2:dW:245:ALA:O	2:dW:249:GLN:HG2	2.20	0.42
1:dC:100:LYS:HB3	2:eZ:197:LYS:HZ2	1.85	0.42
2:dH:148:ASP:OD1	2:dH:149:GLY:N	2.53	0.42
1:dO:103:ARG:NE	2:nP:61:GLY:CA	2.83	0.42
2:dT:278:VAL:O	2:dT:278:VAL:HG23	2.19	0.42
2:dY:64:VAL:O	2:dY:64:VAL:HG23	2.20	0.42
1:ed:96:ASP:OD1	2:el:64:VAL:HG13	2.19	0.42
1:ee:87:ASP:CB	2:mm:5:THR:HG22	2.49	0.42
1:ee:87:ASP:HB3	2:mm:5:THR:HG22	2.02	0.42
1:ef:60:ARG:HD2	1:ef:102:GLU:OE1	2.20	0.42
2:eg:224:TRP:CE3	2:eg:226:LEU:HD12	2.55	0.42
2:ej:79:LEU:HD11	2:em:59:TRP:HA	2.02	0.42
2:ej:148:ASP:OD1	2:ej:149:GLY:N	2.53	0.42
2:el:5:THR:HG22	1:mf:87:ASP:CB	2.49	0.42
2:em:106:MET:HE3	2:em:206:ALA:HB3	2.02	0.42
2:em:215:SER:OG	2:em:216:ARG:N	2.52	0.42
2:em:245:ALA:O	2:em:249:GLN:HG2	2.20	0.42
2:em:246:MET:HA	2:em:249:GLN:HG2	2.00	0.42
1:eo:101:VAL:HG22	1:eo:102:GLU:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eo:103:ARG:O	2:nT:62:GLN:HB3	2.20	0.42
1:eq:103:ARG:NE	2:gE:61:GLY:CA	2.83	0.42
2:ev:219:VAL:O	2:ev:219:VAL:CG1	2.66	0.42
2:ew:13:LYS:HB3	2:ey:43:ALA:HB3	2.02	0.42
2:ey:228:ALA:O	2:ey:284:ALA:HB2	2.20	0.42
2:ez:248:ASN:OD1	2:ez:248:ASN:O	2.38	0.42
2:eA:264:LEU:HB2	2:eA:295:VAL:HG11	2.02	0.42
1:eB:100:LYS:HD3	1:gB:100:LYS:HZ1	1.83	0.42
1:eD:99:LEU:HB3	1:ib:102:GLU:CD	2.37	0.42
1:eG:100:LYS:HB3	2:gr:197:LYS:HZ2	1.85	0.42
2:eJ:8:LEU:HD12	2:eJ:8:LEU:N	2.35	0.42
2:eJ:191:SER:CB	2:eO:191:SER:HB3	2.50	0.42
2:eK:61:GLY:CA	1:gk:103:ARG:NE	2.83	0.42
2:eK:70:ALA:HB2	2:gV:9:ILE:HD11	2.01	0.42
2:eK:280:VAL:HG22	2:eK:282:ARG:H	1.85	0.42
2:eN:200:ASP:N	2:eN:200:ASP:OD1	2.50	0.42
2:eN:233:GLU:OE1	2:eN:234:LEU:HD22	2.20	0.42
2:eO:122:LEU:HD23	2:eO:122:LEU:C	2.45	0.42
2:eO:264:LEU:HB2	2:eO:295:VAL:HG11	2.02	0.42
1:eU:87:ASP:CB	2:iN:5:THR:HG22	2.49	0.42
2:eW:229:MET:HB3	2:eW:234:LEU:HD22	2.01	0.42
2:eZ:234:LEU:HG	2:eZ:239:PHE:HB2	2.02	0.42
2:fa:228:ALA:O	2:fa:284:ALA:HB2	2.20	0.42
1:fi:60:ARG:CB	1:fi:102:GLU:HB3	2.50	0.42
2:fi:21:GLN:O	2:fi:22:ASP:OD1	2.37	0.42
2:fo:113:HIS:CE1	2:fo:117:LEU:HD11	2.54	0.42
2:fq:30:THR:HG23	2:fq:298:LEU:HD13	2.02	0.42
2:fq:62:GLN:HB3	1:ia:103:ARG:O	2.20	0.42
2:fq:122:LEU:HD23	2:fq:122:LEU:C	2.45	0.42
2:fq:228:ALA:HB3	2:fq:273:LYS:HE3	2.02	0.42
2:fz:193:THR:HG23	2:mh:193:THR:HG22	1.99	0.42
2:fa:63:ARG:NH2	2:fD:207:ASP:OD1	2.53	0.42
1:fG:82:ASP:OD1	1:fG:83:GLY:N	2.51	0.42
1:fK:60:ARG:CB	1:fK:102:GLU:HB3	2.50	0.42
1:fL:57:VAL:CG1	1:fL:59:VAL:HG13	2.50	0.42
2:fM:61:GLY:CA	1:fX:103:ARG:HD2	2.40	0.42
2:fM:224:TRP:CE3	2:fM:226:LEU:HD12	2.55	0.42
2:fN:213:VAL:HG12	2:fN:214:ARG:O	2.20	0.42
2:fO:13:LYS:HB3	2:fQ:43:ALA:HB3	2.02	0.42
2:fr:5:THR:HG22	1:kz:87:ASP:HB3	2.02	0.42
2:fr:9:ILE:HD11	2:kD:70:ALA:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fS:245:ALA:O	2:fS:249:GLN:HG2	2.20	0.42
1:fU:103:ARG:O	2:mn:62:GLN:HB3	2.20	0.42
1:fV:63:VAL:HG22	1:fV:75:LYS:N	2.35	0.42
2:gf:144:TYR:HB3	2:gf:145:PRO:HD3	2.01	0.42
2:gg:236:GLN:CB	2:gg:240:GLU:HB3	2.49	0.42
2:gg:264:LEU:HB2	2:gg:295:VAL:HG11	2.02	0.42
2:gp:141:HIS:HB3	2:gp:143:VAL:HG23	2.01	0.42
2:gs:123:LYS:HD3	2:gs:303:LEU:HB2	2.02	0.42
1:gv:65:ARG:HG2	1:gv:96:ASP:HB2	2.02	0.42
1:gA:60:ARG:CB	1:gA:102:GLU:HB3	2.50	0.42
2:gI:232:GLU:O	2:gI:236:GLN:HG2	2.19	0.42
1:gM:103:ARG:NE	2:IV:61:GLY:HA2	2.35	0.42
1:gO:63:VAL:HG13	1:gO:74:ASP:HB3	1.99	0.42
2:gQ:18:LYS:HD2	2:gQ:98:VAL:HG21	2.00	0.42
2:gV:263:LEU:HD23	2:gV:296:GLN:HE21	1.83	0.42
2:gW:246:MET:HA	2:gW:249:GLN:HG2	2.00	0.42
1:gY:104:CYS:HA	2:mB:62:GLN:HE22	1.82	0.42
1:hd:60:ARG:HD2	1:hd:102:GLU:OE1	2.20	0.42
2:hh:79:LEU:HD11	2:hk:59:TRP:HA	2.02	0.42
2:hi:9:ILE:O	2:hi:9:ILE:CG2	2.68	0.42
2:hj:5:THR:HG22	1:oB:87:ASP:HB3	2.02	0.42
2:hj:77:ASN:ND2	2:hj:209:TYR:O	2.53	0.42
2:hk:107:GLY:HA3	2:hk:184:TYR:OH	2.19	0.42
1:hn:95:SER:OG	1:hn:96:ASP:N	2.52	0.42
1:hq:57:VAL:HG22	1:hq:104:CYS:H	1.84	0.42
1:hq:60:ARG:CB	1:hq:102:GLU:HB3	2.50	0.42
1:hr:60:ARG:HD2	1:hr:102:GLU:OE1	2.20	0.42
2:hs:224:TRP:CE3	2:hs:226:LEU:HD12	2.55	0.42
2:ht:61:GLY:CA	1:kk:103:ARG:NE	2.83	0.42
2:hv:4:ILE:HG23	1:kj:90:LEU:HB3	2.02	0.42
2:hv:88:ARG:O	2:hv:91:ILE:HG12	2.19	0.42
2:hw:77:ASN:ND2	2:hw:209:TYR:O	2.53	0.42
2:hw:281:GLN:O	2:hw:289:ASN:N	2.53	0.42
1:hz:99:LEU:HG	2:hI:62:GLN:HE22	1.83	0.42
1:hA:103:ARG:H	2:IW:62:GLN:HG2	1.85	0.42
2:hG:24:LEU:HD11	2:hI:257:LEU:HD12	2.00	0.42
2:hG:63:ARG:NH2	2:hJ:207:ASP:OD1	2.53	0.42
2:hG:280:VAL:HG22	2:hG:282:ARG:H	1.85	0.42
2:hI:228:ALA:O	2:hI:284:ALA:HB2	2.20	0.42
2:hK:62:GLN:HB3	1:lN:103:ARG:O	2.20	0.42
1:hN:63:VAL:HG22	1:hN:75:LYS:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hW:88:ARG:O	2:hW:91:ILE:HG12	2.19	0.42
2:hX:248:ASN:OD1	2:hX:248:ASN:O	2.38	0.42
2:hX:263:LEU:HD23	2:hX:296:GLN:HE21	1.83	0.42
2:ii:208:GLU:OE1	2:ii:210:ARG:NE	2.53	0.42
2:il:9:ILE:HD11	2:nB:70:ALA:HB2	2.01	0.42
1:io:60:ARG:HG2	1:pR:99:LEU:HD22	2.01	0.42
1:io:99:LEU:HA	2:iy:62:GLN:NE2	2.34	0.42
2:iu:182:LEU:HD23	2:iu:182:LEU:H	1.85	0.42
2:iv:219:VAL:O	2:iv:219:VAL:CG1	2.66	0.42
2:iw:13:LYS:HB3	2:iy:43:ALA:HB3	2.01	0.42
2:iw:280:VAL:HG22	2:iw:282:ARG:H	1.85	0.42
2:iy:187:ARG:O	2:iy:187:ARG:CG	2.68	0.42
2:iz:294:LEU:CD2	2:iz:295:VAL:HG23	2.39	0.42
2:iJ:21:GLN:O	2:iJ:22:ASP:OD1	2.37	0.42
2:iM:9:ILE:O	2:iM:9:ILE:CG2	2.68	0.42
2:iO:215:SER:OG	2:iO:216:ARG:N	2.52	0.42
2:iO:264:LEU:HB2	2:iO:295:VAL:HG11	2.02	0.42
1:iP:63:VAL:HG23	1:iP:78:GLN:H	1.84	0.42
2:iY:63:ARG:NH2	2:jb:207:ASP:OD1	2.53	0.42
2:jc:106:MET:HE3	2:jc:206:ALA:HB3	2.02	0.42
1:jg:103:ARG:NE	2:lt:61:GLY:HA2	2.35	0.42
1:ji:60:ARG:CB	1:ji:102:GLU:HB3	2.50	0.42
2:jl:77:ASN:HD21	2:jl:179:LEU:HD11	1.84	0.42
2:jl:278:VAL:O	2:jl:278:VAL:HG23	2.19	0.42
2:jm:63:ARG:HE	2:jp:205:MET:CE	2.30	0.42
2:jo:20:PHE:N	2:jo:20:PHE:CD1	2.87	0.42
2:jo:144:TYR:CG	2:jo:145:PRO:HD2	2.55	0.42
2:jQ:273:LYS:HA	2:jQ:273:LYS:HD2	1.93	0.42
1:jw:87:ASP:CB	2:lK:5:THR:HG22	2.49	0.42
2:jz:278:VAL:O	2:jz:278:VAL:HG23	2.19	0.42
2:jA:63:ARG:NH2	2:jD:207:ASP:OD1	2.53	0.42
2:jA:280:VAL:HG22	2:jA:282:ARG:H	1.85	0.42
2:jB:79:LEU:HD11	2:jE:59:TRP:HA	2.02	0.42
2:jC:144:TYR:CG	2:jC:145:PRO:HD2	2.55	0.42
2:jD:144:TYR:HB3	2:jD:145:PRO:HD3	2.01	0.42
2:jE:229:MET:O	2:jE:285:ASN:ND2	2.52	0.42
2:jO:63:ARG:NH2	2:jR:207:ASP:OD1	2.53	0.42
1:jU:101:VAL:HG22	1:jU:102:GLU:N	2.35	0.42
1:jY:101:VAL:HG23	1:jY:101:VAL:O	2.19	0.42
2:ka:93:ASP:OD2	2:lx:209:TYR:OH	2.22	0.42
2:kf:233:GLU:OE1	2:kf:234:LEU:HD22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kg:264:LEU:HB2	2:kg:295:VAL:HG11	2.02	0.42
1:ki:64:GLU:OE1	1:ki:66:ARG:NH2	2.53	0.42
2:ks:77:ASN:ND2	2:ks:209:TYR:O	2.53	0.42
2:kt:232:GLU:O	2:kt:236:GLN:HG2	2.19	0.42
2:kB:182:LEU:H	2:kB:182:LEU:HD23	1.84	0.42
2:kF:123:LYS:HD3	2:kF:303:LEU:HB2	2.02	0.42
2:kH:246:MET:HA	2:kH:249:GLN:HG2	2.00	0.42
2:kQ:198:GLU:CD	1:mW:102:GLU:HA	2.44	0.42
2:kU:281:GLN:O	2:kU:289:ASN:N	2.53	0.42
1:kX:90:LEU:HB3	2:oH:4:ILE:HG23	2.02	0.42
1:lc:102:GLU:HA	2:mK:198:GLU:CD	2.44	0.42
2:lj:122:LEU:HD23	2:lj:122:LEU:C	2.45	0.42
2:lj:226:LEU:HA	2:lj:238:ASN:ND2	2.35	0.42
2:lj:245:ALA:O	2:lj:249:GLN:HG2	2.20	0.42
1:ll:101:VAL:HG22	1:ll:102:GLU:N	2.35	0.42
1:lm:103:ARG:H	2:pY:62:GLN:HG2	1.85	0.42
2:lr:182:LEU:H	2:lr:182:LEU:HD23	1.85	0.42
2:lu:230:SER:O	2:lu:231:THR:HG22	2.20	0.42
2:lx:122:LEU:C	2:lx:122:LEU:HD23	2.45	0.42
2:lx:245:ALA:O	2:lx:249:GLN:HG2	2.20	0.42
1:lz:101:VAL:HG22	1:lz:102:GLU:N	2.35	0.42
1:lA:63:VAL:HG22	1:lA:75:LYS:N	2.35	0.42
2:lH:61:GLY:CA	1:mT:103:ARG:NE	2.83	0.42
2:lJ:4:ILE:HG23	1:ox:90:LEU:HB3	2.02	0.42
2:IL:245:ALA:O	2:IL:249:GLN:HG2	2.20	0.42
1:lQ:96:ASP:OD1	2:lY:64:VAL:HG13	2.19	0.42
2:lW:144:TYR:HB3	2:lW:145:PRO:CD	2.49	0.42
1:ma:57:VAL:O	1:ma:79:GLY:O	2.38	0.42
1:mb:101:VAL:HG22	1:mb:102:GLU:N	2.35	0.42
2:mi:141:HIS:HB3	2:mi:143:VAL:HG23	2.01	0.42
2:mj:63:ARG:NH2	2:mm:207:ASP:OD1	2.53	0.42
2:mk:90:ASP:O	2:mv:13:LYS:NZ	2.52	0.42
2:mk:144:TYR:HB3	2:mk:145:PRO:CD	2.50	0.42
2:my:234:LEU:HG	2:my:239:PHE:HB2	2.02	0.42
2:mz:88:ARG:O	2:mz:91:ILE:HG12	2.19	0.42
2:mz:107:GLY:CA	2:mz:184:TYR:CZ	2.97	0.42
2:mB:30:THR:HG23	2:mB:298:LEU:HD13	2.02	0.42
2:mB:245:ALA:O	2:mB:249:GLN:HG2	2.20	0.42
1:mE:95:SER:OG	1:mE:96:ASP:N	2.52	0.42
1:mH:87:ASP:HB3	2:oW:5:THR:HG22	2.02	0.42
2:mL:61:GLY:CA	1:ol:103:ARG:NE	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mN:20:PHE:N	2:mN:20:PHE:CD1	2.87	0.42
1:mR:101:VAL:HG22	1:mR:102:GLU:N	2.35	0.42
1:mT:57:VAL:O	1:mT:59:VAL:HG23	2.19	0.42
2:mX:3:ILE:HG22	2:mX:5:THR:H	1.83	0.42
2:mX:224:TRP:CE3	2:mX:226:LEU:HD12	2.55	0.42
2:mZ:63:ARG:NH2	2:nc:207:ASP:OD1	2.53	0.42
2:na:148:ASP:OD1	2:na:149:GLY:N	2.53	0.42
2:nd:245:ALA:O	2:nd:249:GLN:HG2	2.20	0.42
2:np:113:HIS:CE1	2:np:117:LEU:HD11	2.54	0.42
2:np:144:TYR:CG	2:np:145:PRO:HD2	2.55	0.42
1:ns:59:VAL:HG12	1:ns:61:ALA:N	2.28	0.42
1:nt:101:VAL:HG22	1:nt:102:GLU:N	2.35	0.42
2:nC:66:LYS:HB2	2:nD:84:VAL:HG12	2.02	0.42
2:nD:228:ALA:O	2:nD:284:ALA:HB2	2.20	0.42
1:nH:103:ARG:O	2:pl:62:GLN:HB3	2.20	0.42
1:nJ:103:ARG:NE	2:od:61:GLY:CA	2.83	0.42
2:nP:63:ARG:NH2	2:nS:207:ASP:OD1	2.53	0.42
2:nS:233:GLU:OE1	2:nS:234:LEU:HD22	2.20	0.42
2:nT:122:LEU:HD23	2:nT:122:LEU:C	2.45	0.42
1:oa:57:VAL:CG1	1:oa:59:VAL:HG13	2.50	0.42
2:ob:224:TRP:CE3	2:ob:226:LEU:HD12	2.55	0.42
2:oe:66:LYS:HB2	2:of:84:VAL:HG12	2.01	0.42
2:oe:235:ASN:O	2:oe:240:GLU:HB2	2.19	0.42
2:oh:182:LEU:O	2:oh:182:LEU:CD1	2.67	0.42
1:oj:101:VAL:HG22	1:oj:102:GLU:N	2.35	0.42
2:ok:8:LEU:HD12	2:ok:8:LEU:N	2.35	0.42
2:OG:148:ASP:OD1	2:OG:149:GLY:N	2.53	0.42
2:oj:245:ALA:O	2:oj:249:GLN:HG2	2.20	0.42
2:oj:264:LEU:HB2	2:oj:295:VAL:HG11	2.02	0.42
1:ok:63:VAL:HG23	1:ok:78:GLN:H	1.84	0.42
1:OP:60:ARG:CB	1:OP:102:GLU:HB3	2.50	0.42
2:oS:21:GLN:O	2:oS:22:ASP:OD1	2.37	0.42
2:OV:228:ALA:O	2:OV:284:ALA:HB2	2.20	0.42
1:pa:63:VAL:HG22	1:pa:75:LYS:N	2.35	0.42
2:pg:82:SER:HB2	2:pg:206:ALA:H	1.85	0.42
2:pk:77:ASN:ND2	2:pk:209:TYR:O	2.53	0.42
2:pt:189:LYS:O	2:pt:190:PRO:C	2.61	0.42
2:pu:2:ALA:N	1:pO:94:GLU:CG	2.83	0.42
1:pA:58:PHE:HB3	1:pA:101:VAL:HG13	2.02	0.42
1:pA:100:LYS:HD3	1:pG:100:LYS:HZ3	1.83	0.42
1:pC:63:VAL:HG22	1:pC:75:LYS:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pI:82:SER:HB2	2:pI:206:ALA:H	1.85	0.42
2:pI:141:HIS:HB3	2:pI:143:VAL:HG23	2.01	0.42
2:pM:200:ASP:N	2:pM:200:ASP:OD1	2.50	0.42
2:pW:213:VAL:HG12	2:pW:214:ARG:O	2.20	0.42
2:pZ:20:PHE:CD1	2:pZ:20:PHE:N	2.87	0.42
2:qb:228:ALA:HB3	2:qb:273:LYS:HE3	2.02	0.42
2:qb:229:MET:O	2:qb:285:ASN:ND2	2.52	0.42
3:qe:64:GLY:HA2	4:ql:219:ILE:CG2	2.50	0.42
3:qf:19:ARG:CZ	3:qg:135:GLY:O	2.68	0.42
3:qf:95:ARG:HA	3:qf:98:ALA:HB3	2.01	0.42
3:qh:60:ALA:C	4:qj:33:SER:OG	2.60	0.42
4:qj:80:LEU:HA	4:qj:83:THR:HG22	2.02	0.42
4:qj:85:TYR:CE1	4:qj:212:PRO:HD3	2.55	0.42
4:ql:80:LEU:HA	4:ql:83:THR:HG22	2.02	0.42
4:qm:179:THR:HG22	4:qn:247:GLY:CA	2.49	0.42
6:qq:58:LEU:CD1	6:qM:112:LEU:HD23	1.02	0.42
6:qs:133:ASP:O	6:qs:134:TRP:HB2	2.19	0.42
5:qt:24:ARG:O	5:qt:25:LEU:HD22	2.18	0.42
5:qt:73:HIS:O	5:qt:77:GLU:HG2	2.20	0.42
5:qv:73:HIS:O	5:qv:77:GLU:HG2	2.20	0.42
5:qv:304:THR:OG1	5:qv:326:VAL:HG21	2.20	0.42
5:qx:85:ILE:HD13	5:qx:331:LEU:HD12	2.02	0.42
5:qB:85:ILE:HD13	5:qB:331:LEU:HD12	2.02	0.42
5:qL:73:HIS:O	5:qL:77:GLU:HG2	2.20	0.42
5:qL:235:ARG:HG2	5:qL:255:VAL:HG13	2.01	0.42
1:ab:63:VAL:HG22	1:ab:75:LYS:N	2.35	0.42
1:af:86:SER:O	1:af:90:LEU:N	2.47	0.42
2:al:5:THR:HG22	1:fw:87:ASP:CB	2.49	0.42
2:am:106:MET:HE3	2:am:206:ALA:HB3	2.02	0.42
1:ao:101:VAL:HG22	1:ao:102:GLU:N	2.35	0.42
1:ap:102:GLU:HG2	2:dt:62:GLN:HE21	1.84	0.42
2:av:70:ALA:HB2	2:gt:9:ILE:HD11	2.01	0.42
2:ax:228:ALA:O	2:ax:284:ALA:HB2	2.20	0.42
2:ay:5:THR:HG22	1:gm:87:ASP:HB3	2.02	0.42
1:aF:100:LYS:HB3	2:kd:197:LYS:HZ2	1.85	0.42
1:aG:86:SER:O	1:aG:90:LEU:N	2.47	0.42
2:aH:13:LYS:NZ	2:kd:90:ASP:O	2.52	0.42
2:aH:224:TRP:CE3	2:aH:226:LEU:HD12	2.55	0.42
2:aJ:208:GLU:OE1	2:aJ:210:ARG:NE	2.53	0.42
2:aK:62:GLN:HE21	1:kK:102:GLU:HG2	1.84	0.42
2:aL:30:THR:HG21	2:aL:298:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aL:123:LYS:HD3	2:aL:303:LEU:HB2	2.02	0.42
2:aM:263:LEU:HD23	2:aM:296:GLN:HE21	1.83	0.42
2:aN:122:LEU:HD23	2:aN:122:LEU:C	2.45	0.42
1:aP:103:ARG:O	2:cs:62:GLN:HB3	2.20	0.42
2:aV:224:TRP:CE3	2:aV:226:LEU:HD12	2.55	0.42
2:aW:219:VAL:O	2:aW:219:VAL:CG1	2.66	0.42
2:aX:13:LYS:HB3	2:aZ:43:ALA:HB3	2.01	0.42
2:aX:208:GLU:OE1	2:aX:210:ARG:NE	2.53	0.42
2:bb:228:ALA:HB3	2:bb:273:LYS:HE3	2.02	0.42
1:be:102:GLU:HG2	2:kq:62:GLN:HE21	1.84	0.42
2:bk:42:THR:HG22	2:bk:43:ALA:H	1.85	0.42
2:bm:62:GLN:HG2	1:iR:103:ARG:H	1.85	0.42
2:bn:144:TYR:CG	2:bn:145:PRO:HD2	2.55	0.42
2:bp:62:GLN:HB3	1:ki:103:ARG:O	2.20	0.42
2:bp:106:MET:HE3	2:bp:206:ALA:HB3	2.02	0.42
1:bq:65:ARG:HG2	1:bq:96:ASP:HB2	2.02	0.42
1:bv:60:ARG:CB	1:bv:102:GLU:HB3	2.50	0.42
2:bx:189:LYS:O	2:bx:190:PRO:C	2.61	0.42
2:by:278:VAL:O	2:by:278:VAL:HG23	2.19	0.42
2:bB:4:ILE:HG23	1:bS:90:LEU:HB3	2.02	0.42
2:bB:9:ILE:O	2:bB:9:ILE:CG2	2.68	0.42
2:bC:144:TYR:HB3	2:bC:145:PRO:HD3	2.01	0.42
1:bF:101:VAL:HG22	1:bF:102:GLU:N	2.35	0.42
1:bG:103:ARG:H	2:gr:62:GLN:HG2	1.85	0.42
2:bL:224:TRP:CE3	2:bL:226:LEU:HD12	2.55	0.42
2:bO:88:ARG:O	2:bO:91:ILE:HG12	2.19	0.42
2:bP:263:LEU:HD23	2:bP:296:GLN:HE21	1.83	0.42
2:bQ:245:ALA:O	2:bQ:249:GLN:HG2	2.20	0.42
1:bS:98:LEU:HG	2:cc:62:GLN:CD	2.44	0.42
1:bW:63:VAL:HG13	1:bW:74:ASP:HB3	1.99	0.42
1:bX:60:ARG:HD2	1:bX:102:GLU:OE1	2.20	0.42
2:bY:13:LYS:NZ	2:dt:90:ASP:O	2.52	0.42
2:bZ:191:SER:CB	2:ce:191:SER:HB3	2.50	0.42
2:bZ:198:GLU:CD	1:iH:102:GLU:HA	2.44	0.42
2:bZ:219:VAL:O	2:bZ:219:VAL:CG1	2.66	0.42
2:cc:228:ALA:O	2:cc:284:ALA:HB2	2.20	0.42
1:cj:96:ASP:OD1	2:cr:64:VAL:HG13	2.19	0.42
2:cn:2:ALA:N	1:pA:94:GLU:CG	2.83	0.42
2:cn:98:VAL:HG21	2:pz:9:ILE:HD11	2.02	0.42
2:cp:277:VAL:O	2:cp:289:ASN:ND2	2.48	0.42
2:cq:144:TYR:CG	2:cq:145:PRO:HD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cs:122:LEU:HD23	2:cs:122:LEU:C	2.45	0.42
1:ct:57:VAL:O	1:ct:79:GLY:O	2.38	0.42
1:ct:94:GLU:CG	2:iv:2:ALA:N	2.83	0.42
1:cu:64:GLU:OE1	1:cu:66:ARG:NH2	2.53	0.42
1:cy:100:LYS:HB3	2:pi:197:LYS:HZ2	1.85	0.42
2:cF:77:ASN:ND2	2:cF:209:TYR:O	2.53	0.42
1:cM:87:ASP:HB3	2:pM:5:THR:HG22	2.02	0.42
2:cP:82:SER:HB2	2:cP:206:ALA:H	1.85	0.42
2:cP:173:LEU:HA	2:cP:215:SER:HB3	2.00	0.42
2:cQ:208:GLU:OE1	2:cQ:210:ARG:NE	2.53	0.42
2:cS:187:ARG:O	2:cS:187:ARG:CG	2.68	0.42
1:cV:65:ARG:HG2	1:cV:96:ASP:HB2	2.02	0.42
1:cW:90:LEU:HB3	2:gG:4:ILE:HG23	2.02	0.42
1:cW:101:VAL:HG22	1:cW:102:GLU:N	2.35	0.42
1:da:87:ASP:HB3	2:fp:5:THR:HG22	2.02	0.42
2:dd:77:ASN:HD21	2:dd:179:LEU:HD11	1.84	0.42
2:dd:213:VAL:HG12	2:dd:214:ARG:O	2.20	0.42
2:de:63:ARG:NH2	2:dh:207:ASP:OD1	2.53	0.42
2:df:62:GLN:HE21	1:gx:102:GLU:HG2	1.84	0.42
2:df:230:SER:O	2:df:231:THR:HG22	2.20	0.42
2:dg:20:PHE:N	2:dg:20:PHE:CD1	2.87	0.42
2:dh:233:GLU:OE1	2:dh:234:LEU:HD22	2.20	0.42
2:di:106:MET:HE3	2:di:206:ALA:HB3	2.02	0.42
2:di:229:MET:O	2:di:285:ASN:ND2	2.52	0.42
2:dt:66:LYS:HB2	2:du:84:VAL:HG12	2.02	0.42
2:dw:30:THR:HG23	2:dw:298:LEU:HD13	2.02	0.42
2:dw:215:SER:OG	2:dw:216:ARG:N	2.52	0.42
1:dz:95:SER:OG	1:dz:96:ASP:N	2.52	0.42
1:dC:60:ARG:CB	1:dC:102:GLU:HB3	2.50	0.42
1:dD:60:ARG:HD2	1:dD:102:GLU:OE1	2.20	0.42
2:dE:18:LYS:HD2	2:dE:98:VAL:HG21	2.00	0.42
2:dG:63:ARG:NH2	2:dJ:207:ASP:OD1	2.53	0.42
2:dH:66:LYS:HB2	2:dI:84:VAL:HG12	2.02	0.42
2:dJ:233:GLU:OE1	2:dJ:234:LEU:HD22	2.20	0.42
2:dK:122:LEU:HD23	2:dK:122:LEU:C	2.45	0.42
2:dK:264:LEU:HB2	2:dK:295:VAL:HG11	2.02	0.42
1:dM:64:GLU:OE1	1:dM:66:ARG:NH2	2.53	0.42
1:dP:96:ASP:OD1	2:dX:64:VAL:HG13	2.19	0.42
2:dS:182:LEU:H	2:dS:182:LEU:HD23	1.84	0.42
2:dT:192:PHE:HZ	2:dY:196:THR:HG21	1.83	0.42
2:dV:62:GLN:HE21	1:pC:102:GLU:HG2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dV:79:LEU:HD11	2:dY:59:TRP:HA	2.02	0.42
1:ea:101:VAL:HG22	1:ea:102:GLU:N	2.35	0.42
1:ec:103:ARG:NE	2:ew:61:GLY:CA	2.83	0.42
1:ee:60:ARG:CB	1:ee:102:GLU:HB3	2.50	0.42
2:ej:66:LYS:HB2	2:ek:84:VAL:HG12	2.02	0.42
2:ek:30:THR:HG21	2:ek:298:LEU:HD13	2.01	0.42
2:em:264:LEU:HB2	2:em:295:VAL:HG11	2.02	0.42
1:eo:60:ARG:HG2	1:nJ:99:LEU:HD22	2.01	0.42
1:et:57:VAL:CG1	1:et:59:VAL:HG13	2.50	0.42
2:ew:208:GLU:OE1	2:ew:210:ARG:NE	2.53	0.42
2:ey:287:ALA:O	2:ey:288:ASP:CG	2.63	0.42
2:eA:62:GLN:HE22	1:oZ:104:CYS:HA	1.82	0.42
2:eA:232:GLU:O	2:eA:236:GLN:HG2	2.19	0.42
1:eB:58:PHE:HB3	1:eB:101:VAL:HG13	2.02	0.42
1:eC:90:LEU:HB3	2:ik:4:ILE:HG23	2.02	0.42
1:eF:98:LEU:O	2:gp:197:LYS:NZ	2.47	0.42
2:eM:123:LYS:HD3	2:eM:303:LEU:HB2	2.02	0.42
2:eM:144:TYR:CG	2:eM:145:PRO:HD2	2.55	0.42
2:eO:106:MET:HE3	2:eO:206:ALA:HB3	2.02	0.42
2:eX:201:GLU:O	2:eX:202:GLN:C	2.62	0.42
2:fa:187:ARG:O	2:fa:187:ARG:CG	2.68	0.42
1:fe:64:GLU:OE1	1:fe:66:ARG:NH2	2.53	0.42
2:fk:182:LEU:H	2:fk:182:LEU:HD23	1.85	0.42
2:fl:82:SER:HB2	2:fl:206:ALA:H	1.85	0.42
2:fl:198:GLU:CD	1:ny:102:GLU:HA	2.44	0.42
2:fl:205:MET:CE	2:nA:63:ARG:HD2	2.49	0.42
2:fl:282:ARG:HH11	2:nA:282:ARG:NH2	1.93	0.42
2:fn:234:LEU:HG	2:fn:239:PHE:HB2	2.02	0.42
2:fn:235:ASN:O	2:fn:240:GLU:HB2	2.19	0.42
1:fr:57:VAL:O	1:fr:79:GLY:O	2.38	0.42
1:fw:57:VAL:HG22	1:fw:104:CYS:H	1.83	0.42
2:fz:198:GLU:CD	1:mg:102:GLU:HA	2.44	0.42
2:fA:280:VAL:HG22	2:fA:282:ARG:H	1.85	0.42
2:fC:144:TYR:CG	2:fC:145:PRO:HD2	2.55	0.42
2:fE:106:MET:HE3	2:fE:206:ALA:HB3	2.02	0.42
1:fl:103:ARG:NE	2:gc:61:GLY:CA	2.83	0.42
1:fl:102:GLU:HA	2:lU:198:GLU:CD	2.44	0.42
2:fO:61:GLY:CA	1:lP:103:ARG:NE	2.83	0.42
2:fO:63:ARG:NH2	2:fr:207:ASP:OD1	2.53	0.42
2:fP:66:LYS:HB2	2:fQ:84:VAL:HG12	2.02	0.42
2:fQ:20:PHE:CD1	2:fQ:20:PHE:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fS:215:SER:OG	2:fS:216:ARG:N	2.52	0.42
2:fS:232:GLU:O	2:fS:236:GLN:HG2	2.19	0.42
1:fV:99:LEU:CA	1:mc:102:GLU:OE1	2.28	0.42
2:gb:98:VAL:HG21	2:im:9:ILE:HD11	2.02	0.42
2:gb:191:SER:CB	2:gg:191:SER:HB3	2.50	0.42
2:gb:213:VAL:HG12	2:gb:214:ARG:O	2.20	0.42
2:gd:62:GLN:HG2	1:mc:103:ARG:H	1.85	0.42
2:gd:234:LEU:HG	2:gd:239:PHE:HB2	2.02	0.42
2:gd:235:ASN:O	2:gd:240:GLU:HB2	2.19	0.42
2:ge:187:ARG:O	2:ge:187:ARG:CG	2.68	0.42
2:gf:5:THR:HG22	1:mt:87:ASP:HB3	2.02	0.42
2:gf:5:THR:HG22	1:mt:87:ASP:CB	2.49	0.42
1:gh:57:VAL:O	1:gh:79:GLY:O	2.38	0.42
1:gh:58:PHE:HB3	1:gh:101:VAL:HG13	2.02	0.42
2:gp:8:LEU:HD12	2:gp:8:LEU:N	2.35	0.42
2:gq:63:ARG:NH2	2:gt:207:ASP:OD1	2.53	0.42
2:gq:208:GLU:OE1	2:gq:210:ARG:NE	2.53	0.42
2:gr:79:LEU:HD11	2:gu:59:TRP:HA	2.02	0.42
2:gC:182:LEU:H	2:gC:182:LEU:HD23	1.85	0.42
2:gE:280:VAL:HG22	2:gE:282:ARG:H	1.85	0.42
2:gI:245:ALA:O	2:gI:249:GLN:HG2	2.20	0.42
1:gJ:58:PHE:HB3	1:gJ:101:VAL:HG13	2.02	0.42
1:gP:60:ARG:HD2	1:gP:102:GLU:OE1	2.20	0.42
2:gR:68:MET:SD	2:ih:102:LEU:HD13	2.59	0.42
1:gY:90:LEU:HB3	2:mz:4:ILE:HG23	2.02	0.42
2:he:3:ILE:HG22	2:he:5:THR:H	1.83	0.42
2:hF:173:LEU:HA	2:hF:215:SER:HB3	2.01	0.42
2:hh:234:LEU:HG	2:hh:239:PHE:HB2	2.02	0.42
2:hi:123:LYS:HD3	2:hi:303:LEU:HB2	2.02	0.42
2:hj:144:TYR:HB3	2:hj:145:PRO:HD3	2.01	0.42
2:hj:281:GLN:O	2:hj:289:ASN:N	2.53	0.42
2:hk:215:SER:OG	2:hk:216:ARG:N	2.52	0.42
1:hm:64:GLU:OE1	1:hm:66:ARG:NH2	2.53	0.42
2:hs:104:GLN:NE2	5:qB:179:ALA:CB	2.68	0.42
2:hX:64:VAL:HG23	2:hX:64:VAL:O	2.20	0.42
2:hX:226:LEU:HA	2:hX:238:ASN:ND2	2.35	0.42
2:hF:32:LEU:HD13	5:qv:178:PRO:CA	2.27	0.42
2:hH:62:GLN:HE21	1:kw:102:GLU:HG2	1.84	0.42
2:hH:66:LYS:HB2	2:hI:84:VAL:HG12	2.02	0.42
2:hJ:233:GLU:OE1	2:hJ:234:LEU:HD22	2.20	0.42
2:hJ:248:ASN:OD1	2:hJ:248:ASN:O	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hJ:263:LEU:HD23	2:hJ:296:GLN:HE21	1.83	0.42
1:hM:101:VAL:HG22	1:hM:102:GLU:N	2.35	0.42
2:hV:234:LEU:HG	2:hV:239:PHE:HB2	2.02	0.42
1:ie:60:ARG:CB	1:ie:102:GLU:HB3	2.50	0.42
2:ij:234:LEU:HG	2:ij:239:PHE:HB2	2.02	0.42
2:il:77:ASN:ND2	2:il:209:TYR:O	2.53	0.42
2:im:106:MET:HE3	2:im:206:ALA:HB3	2.02	0.42
2:im:264:LEU:HB2	2:im:295:VAL:HG11	2.02	0.42
1:io:103:ARG:O	2:qb:62:GLN:HB3	2.20	0.42
1:is:60:ARG:CB	1:is:102:GLU:HB3	2.50	0.42
2:iu:13:LYS:NZ	2:jP:90:ASP:O	2.52	0.42
2:iw:24:LEU:HD11	2:iy:257:LEU:HD12	2.00	0.42
2:iw:63:ARG:HE	2:iz:205:MET:CE	2.30	0.42
2:iz:281:GLN:O	2:iz:289:ASN:N	2.53	0.42
2:iA:62:GLN:HB3	1:ll:103:ARG:O	2.20	0.42
1:iB:63:VAL:HG23	1:iB:78:GLN:H	1.84	0.42
1:iC:64:GLU:OE1	1:iC:66:ARG:NH2	2.53	0.42
2:iI:182:LEU:HD23	2:iI:182:LEU:H	1.84	0.42
2:iJ:82:SER:HB2	2:iJ:206:ALA:H	1.85	0.42
2:iJ:213:VAL:HG12	2:iJ:214:ARG:O	2.20	0.42
2:iM:228:ALA:O	2:iM:284:ALA:HB2	2.20	0.42
1:iQ:103:ARG:O	2:kt:62:GLN:HB3	2.20	0.42
2:iW:229:MET:HB3	2:iW:234:LEU:HD22	2.01	0.42
2:iY:13:LYS:HB3	2:ja:43:ALA:HB3	2.02	0.42
2:iZ:148:ASP:OD1	2:iZ:149:GLY:N	2.53	0.42
2:jc:245:ALA:O	2:jc:249:GLN:HG2	2.20	0.42
1:jd:57:VAL:O	1:jd:79:GLY:O	2.38	0.42
2:jl:2:ALA:N	1:ly:94:GLU:CG	2.83	0.42
2:jl:201:GLU:O	2:jl:202:GLN:C	2.62	0.42
2:jn:79:LEU:HD11	2:jq:59:TRP:HA	2.02	0.42
2:jq:226:LEU:HA	2:jq:238:ASN:ND2	2.35	0.42
1:ju:103:ARG:NE	2:pX:61:GLY:CA	2.83	0.42
2:jz:2:ALA:N	1:qc:94:GLU:CG	2.83	0.42
2:jA:61:GLY:CA	1:kZ:103:ARG:NH1	2.70	0.42
2:jB:234:LEU:HG	2:jB:239:PHE:HB2	2.02	0.42
2:jC:9:ILE:O	2:jC:9:ILE:CG2	2.68	0.42
2:jD:5:THR:HG22	1:lD:87:ASP:HB3	2.02	0.42
2:jD:233:GLU:OE1	2:jD:234:LEU:HD22	2.20	0.42
2:jD:281:GLN:O	2:jD:289:ASN:N	2.53	0.42
2:jE:226:LEU:HA	2:jE:238:ASN:ND2	2.35	0.42
1:jG:103:ARG:O	2:oX:62:GLN:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jK:63:VAL:HG13	1:jK:74:ASP:HB3	1.99	0.42
2:jP:62:GLN:HE21	1:oM:102:GLU:HG2	1.84	0.42
2:jQ:123:LYS:HD3	2:jQ:303:LEU:HB2	2.02	0.42
2:jQ:187:ARG:O	2:jQ:187:ARG:CG	2.68	0.42
2:jR:89:THR:N	2:jR:200:ASP:OD2	2.36	0.42
2:jR:144:TYR:HB3	2:jR:145:PRO:HD3	2.01	0.42
2:jR:281:GLN:O	2:jR:289:ASN:N	2.53	0.42
2:jS:232:GLU:O	2:jS:236:GLN:HG2	2.19	0.42
2:ka:224:TRP:CE3	2:ka:226:LEU:HD12	2.55	0.42
2:kb:141:HIS:HB3	2:kb:143:VAL:HG23	2.01	0.42
2:kb:201:GLU:O	2:kb:202:GLN:C	2.62	0.42
2:kc:63:ARG:NH2	2:kf:207:ASP:OD1	2.53	0.42
2:ke:20:PHE:CD1	2:ke:20:PHE:N	2.87	0.42
2:ks:281:GLN:O	2:ks:289:ASN:N	2.53	0.42
2:kt:106:MET:HE3	2:kt:206:ALA:HB3	2.02	0.42
2:kt:107:GLY:C	5:qD:178:PRO:HG3	2.32	0.42
2:kt:189:LYS:HD3	5:qD:34:GLN:CB	2.48	0.42
1:ku:57:VAL:O	1:ku:79:GLY:O	2.38	0.42
2:kC:82:SER:HB2	2:kC:206:ALA:H	1.85	0.42
2:kE:197:LYS:HZ2	1:kN:100:LYS:HB3	1.85	0.42
2:kF:187:ARG:O	2:kF:187:ARG:CG	2.68	0.42
2:kG:248:ASN:OD1	2:kG:248:ASN:O	2.38	0.42
2:kH:122:LEU:HD23	2:kH:122:LEU:C	2.45	0.42
2:kT:9:ILE:O	2:kT:9:ILE:CG2	2.68	0.42
2:kV:228:ALA:HB3	2:kV:273:LYS:HE3	2.02	0.42
2:kV:232:GLU:O	2:kV:236:GLN:HG2	2.19	0.42
1:kY:99:LEU:CA	1:oy:102:GLU:CD	2.87	0.42
1:lc:100:LYS:HZ1	1:mQ:100:LYS:HD3	1.84	0.42
2:le:57:ARG:NH2	2:le:58:GLU:O	2.48	0.42
2:lf:280:VAL:HG22	2:lf:282:ARG:H	1.85	0.42
2:lj:30:THR:HG23	2:lj:298:LEU:HD13	2.02	0.42
1:lk:58:PHE:HB3	1:lk:101:VAL:HG13	2.02	0.42
1:lk:94:GLU:CG	2:mK:2:ALA:N	2.83	0.42
1:ll:64:GLU:OE1	1:ll:66:ARG:NH2	2.53	0.42
2:lr:229:MET:HB3	2:lr:234:LEU:HD22	2.01	0.42
2:lt:53:PHE:O	2:lt:255:ARG:NH2	2.43	0.42
2:lx:182:LEU:O	2:lx:182:LEU:CD1	2.67	0.42
1:ly:63:VAL:HG23	1:ly:78:GLN:H	1.84	0.42
1:lA:103:ARG:H	2:oG:62:GLN:HG2	1.85	0.42
2:lI:277:VAL:O	2:lI:289:ASN:ND2	2.48	0.42
2:lJ:88:ARG:O	2:lJ:91:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IL:229:MET:O	2:IL:285:ASN:ND2	2.52	0.42
2:IL:232:GLU:O	2:IL:236:GLN:HG2	2.19	0.42
2:IU:201:GLU:O	2:IU:202:GLN:C	2.62	0.42
2:IW:79:LEU:HD11	2:IZ:59:TRP:HA	2.02	0.42
2:IX:123:LYS:HD3	2:IX:303:LEU:HB2	2.02	0.42
2:IX:187:ARG:O	2:IX:187:ARG:CG	2.68	0.42
2:IZ:30:THR:HG23	2:IZ:298:LEU:HD13	2.02	0.42
2:IZ:251:ALA:HB2	2:IZ:257:LEU:HD21	2.01	0.42
1:mg:57:VAL:CG1	1:mg:59:VAL:HG13	2.50	0.42
2:mi:219:VAL:O	2:mi:219:VAL:CG1	2.66	0.42
2:mj:280:VAL:HG22	2:mj:282:ARG:H	1.85	0.42
2:ml:30:THR:HG21	2:ml:298:LEU:HD13	2.01	0.42
2:mn:122:LEU:HD23	2:mn:122:LEU:C	2.45	0.42
2:mn:264:LEU:HB2	2:mn:295:VAL:HG11	2.02	0.42
1:mp:82:ASP:OD1	1:mp:83:GLY:N	2.51	0.42
1:mp:101:VAL:HG22	1:mp:102:GLU:N	2.35	0.42
2:mw:8:LEU:HD12	2:mw:8:LEU:N	2.35	0.42
2:mA:238:ASN:O	2:mA:242:VAL:CG2	2.62	0.42
2:mB:236:GLN:CB	2:mB:240:GLU:HB3	2.49	0.42
1:mE:102:GLU:HG2	2:no:62:GLN:HE21	1.84	0.42
1:mH:60:ARG:CB	1:mH:102:GLU:HB3	2.50	0.42
1:mH:100:LYS:HB3	2:os:197:LYS:HZ2	1.85	0.42
2:mJ:13:LYS:NZ	2:os:90:ASP:O	2.52	0.42
2:mK:141:HIS:HB3	2:mK:143:VAL:HG23	2.01	0.42
2:mM:235:ASN:O	2:mM:240:GLU:HB2	2.19	0.42
2:mO:248:ASN:OD1	2:mO:248:ASN:O	2.38	0.42
2:mP:9:ILE:HD11	2:oq:98:VAL:HG21	2.02	0.42
2:mP:106:MET:HE3	2:mP:206:ALA:HB3	2.02	0.42
2:mP:122:LEU:C	2:mP:122:LEU:HD23	2.45	0.42
2:mX:182:LEU:H	2:mX:182:LEU:HD23	1.85	0.42
2:mZ:59:TRP:NE1	2:mZ:63:ARG:HG3	2.35	0.42
1:nf:64:GLU:OE1	1:nf:66:ARG:NH2	2.53	0.42
2:nm:82:SER:HB2	2:nm:206:ALA:H	1.85	0.42
2:no:230:SER:O	2:no:231:THR:HG22	2.20	0.42
2:np:9:ILE:O	2:np:9:ILE:CG2	2.68	0.42
2:np:228:ALA:O	2:np:284:ALA:HB2	2.20	0.42
2:nr:106:MET:HE3	2:nr:206:ALA:HB3	2.02	0.42
2:nr:251:ALA:HB2	2:nr:257:LEU:HD21	2.01	0.42
2:nA:42:THR:HG22	2:nA:43:ALA:H	1.85	0.42
2:nA:219:VAL:O	2:nA:219:VAL:CG1	2.66	0.42
2:nB:280:VAL:HG22	2:nB:282:ARG:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nE:281:GLN:O	2:nE:289:ASN:N	2.53	0.42
2:nF:245:ALA:O	2:nF:249:GLN:HG2	2.20	0.42
1:nM:57:VAL:CG1	1:nM:59:VAL:HG13	2.50	0.42
2:nO:42:THR:HG22	2:nO:43:ALA:H	1.85	0.42
2:nP:13:LYS:HB3	2:nR:43:ALA:HB3	2.02	0.42
2:nQ:148:ASP:OD1	2:nQ:149:GLY:N	2.53	0.42
2:nR:228:ALA:O	2:nR:284:ALA:HB2	2.20	0.42
2:ob:182:LEU:HD23	2:ob:182:LEU:H	1.85	0.42
2:oc:77:ASN:HD21	2:oc:179:LEU:HD11	1.84	0.42
2:oc:82:SER:HB2	2:oc:206:ALA:H	1.85	0.42
2:of:9:ILE:O	2:of:9:ILE:CG2	2.68	0.42
2:og:200:ASP:N	2:og:200:ASP:OD1	2.50	0.42
1:ok:103:ARG:H	2:oU:62:GLN:HG2	1.85	0.42
2:op:224:TRP:CE3	2:op:226:LEU:HD12	2.55	0.42
2:os:36:THR:HG22	2:os:175:THR:HG22	2.00	0.42
2:os:234:LEU:HG	2:os:239:PHE:HB2	2.02	0.42
2:ot:4:ILE:HG23	1:ol:90:LEU:HB3	2.02	0.42
2:ov:30:THR:HG23	2:ov:298:LEU:HD13	2.02	0.42
2:ov:106:MET:HE3	2:ov:206:ALA:HB3	2.02	0.42
1:ox:99:LEU:HA	2:oH:62:GLN:NE2	2.34	0.42
1:oc:60:ARG:HD2	1:oc:102:GLU:OE1	2.20	0.42
2:og:79:LEU:HD11	2:oJ:59:TRP:HA	2.02	0.42
2:oh:123:LYS:HD3	2:oh:303:LEU:HB2	2.02	0.42
2:oS:213:VAL:HG12	2:oS:214:ARG:O	2.20	0.42
2:oU:230:SER:O	2:oU:231:THR:HG22	2.20	0.42
2:oV:9:ILE:O	2:oV:9:ILE:CG2	2.68	0.42
2:ow:281:GLN:O	2:ow:289:ASN:N	2.53	0.42
2:ox:106:MET:HE3	2:ox:206:ALA:HB3	2.02	0.42
1:pe:60:ARG:HD2	1:pe:102:GLU:OE1	2.20	0.42
2:pg:173:LEU:HA	2:pg:215:SER:HB3	2.01	0.42
2:pi:230:SER:O	2:pi:231:THR:HG22	2.20	0.42
2:pk:89:THR:N	2:pk:200:ASP:OD2	2.36	0.42
2:pk:248:ASN:OD1	2:pk:248:ASN:O	2.38	0.42
1:pm:67:CYS:HA	1:pm:72:CYS:HA	2.00	0.42
2:pw:234:LEU:HG	2:pw:239:PHE:HB2	2.02	0.42
2:px:30:THR:HG21	2:px:298:LEU:HD13	2.01	0.42
2:pK:82:SER:HG	2:pN:53:PHE:HE2	1.63	0.42
2:pL:144:TYR:CG	2:pL:145:PRO:HD2	2.55	0.42
2:pM:281:GLN:O	2:pM:289:ASN:N	2.53	0.42
1:pQ:63:VAL:HG22	1:pQ:75:LYS:N	2.35	0.42
1:pR:57:VAL:O	1:pR:59:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pW:173:LEU:HA	2:pW:215:SER:HB3	2.01	0.42
2:pX:13:LYS:HB3	2:pZ:43:ALA:HB3	2.02	0.42
2:qb:226:LEU:HA	2:qb:238:ASN:ND2	2.35	0.42
3:qd:31:VAL:HG13	3:qd:48:TYR:CD1	2.55	0.42
3:qd:136:TYR:O	3:qd:137:LEU:HG	2.19	0.42
3:qe:55:GLU:OE1	4:qm:223:ASN:ND2	2.35	0.42
3:qh:65:GLY:C	4:qj:10:GLN:CG	2.79	0.42
4:ql:85:TYR:CE1	4:ql:212:PRO:HD3	2.55	0.42
5:qr:73:HIS:O	5:qr:77:GLU:HG2	2.20	0.42
5:qt:235:ARG:HG2	5:qt:255:VAL:HG13	2.01	0.42
6:qu:8:ASP:HB3	6:qw:39:ARG:NH2	2.35	0.42
5:qz:73:HIS:O	5:qz:77:GLU:HG2	2.20	0.42
6:qA:109:SER:HG	6:qC:53:HIS:HD2	1.59	0.42
5:qB:73:HIS:O	5:qB:77:GLU:HG2	2.20	0.42
5:qB:304:THR:OG1	5:qB:326:VAL:HG21	2.20	0.42
6:qC:83:LEU:HD11	6:qC:89:VAL:HG13	2.00	0.42
6:qE:8:ASP:HB3	6:qG:39:ARG:NH2	2.35	0.42
6:qE:133:ASP:O	6:qE:134:TRP:HB2	2.19	0.42
5:qH:85:ILE:HD13	5:qH:331:LEU:HD12	2.02	0.42
6:qI:133:ASP:O	6:qI:134:TRP:HB2	2.19	0.42
5:qJ:252:LEU:HD23	6:qM:126:GLN:HG3	2.00	0.42
6:qK:8:ASP:HB3	6:qM:39:ARG:NH2	2.35	0.42
1:ac:103:ARG:NE	2:ot:61:GLY:CA	2.83	0.41
2:am:226:LEU:HA	2:am:238:ASN:ND2	2.35	0.41
1:an:58:PHE:HB3	1:an:101:VAL:HG13	2.02	0.41
1:ap:63:VAL:HG22	1:ap:75:LYS:N	2.35	0.41
2:aw:62:GLN:HE21	1:hN:102:GLU:HG2	1.84	0.41
2:ax:144:TYR:CG	2:ax:145:PRO:HD2	2.55	0.41
2:ay:248:ASN:OD1	2:ay:248:ASN:O	2.38	0.41
1:aB:90:LEU:HB3	2:kT:4:ILE:HG23	2.02	0.41
2:aH:303:LEU:H	2:aH:303:LEU:HD23	1.85	0.41
2:aK:66:LYS:HB2	2:aL:84:VAL:HG12	2.02	0.41
2:aK:148:ASP:OD1	2:aK:149:GLY:N	2.53	0.41
1:aO:65:ARG:HG2	1:aO:96:ASP:HB2	2.02	0.41
1:aT:60:ARG:CB	1:aT:102:GLU:HB3	2.50	0.41
1:aU:60:ARG:HD2	1:aU:102:GLU:OE1	2.20	0.41
2:aY:66:LYS:HB2	2:aZ:84:VAL:HG12	2.01	0.41
2:aY:79:LEU:HD11	2:bb:59:TRP:HA	2.02	0.41
2:aZ:4:ILE:HG23	1:je:90:LEU:HB3	2.02	0.41
2:bb:236:GLN:CB	2:bb:240:GLU:HB3	2.49	0.41
1:bc:94:GLU:CG	2:iJ:2:ALA:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bf:57:VAL:O	1:bf:59:VAL:HG23	2.19	0.41
1:bh:87:ASP:HB3	2:jp:5:THR:HG22	2.02	0.41
2:bj:224:TRP:CE3	2:bj:226:LEU:HD12	2.55	0.41
2:bk:3:ILE:HD11	1:dx:58:PHE:CE1	2.53	0.41
2:bn:20:PHE:N	2:bn:20:PHE:CD1	2.87	0.41
2:bn:187:ARG:O	2:bn:187:ARG:CG	2.68	0.41
2:bp:251:ALA:HB2	2:bp:257:LEU:HD21	2.01	0.41
1:br:98:LEU:HG	2:bB:62:GLN:CD	2.44	0.41
1:bs:99:LEU:HB3	1:eR:102:GLU:CD	2.37	0.41
1:bt:57:VAL:O	1:bt:59:VAL:HG23	2.19	0.41
2:bz:13:LYS:HB3	2:bB:43:ALA:HB3	2.02	0.41
2:bz:61:GLY:CA	1:cY:103:ARG:NE	2.83	0.41
2:bz:280:VAL:HG22	2:bz:282:ARG:H	1.85	0.41
1:bG:63:VAL:HG22	1:bG:75:LYS:N	2.35	0.41
1:bG:95:SER:OG	1:bG:96:ASP:N	2.52	0.41
2:bM:70:ALA:HB2	2:lY:9:ILE:HD11	2.01	0.41
2:bN:230:SER:O	2:bN:231:THR:HG22	2.20	0.41
2:bQ:229:MET:O	2:bQ:285:ASN:ND2	2.52	0.41
1:cf:57:VAL:O	1:cf:79:GLY:O	2.38	0.41
1:cl:60:ARG:HD2	1:cl:102:GLU:OE1	2.20	0.41
2:cq:20:PHE:N	2:cq:20:PHE:CD1	2.87	0.41
2:cr:263:LEU:HD23	2:cr:296:GLN:HE21	1.83	0.41
2:cr:281:GLN:O	2:cr:289:ASN:N	2.53	0.41
2:cs:107:GLY:HA3	2:cs:184:TYR:OH	2.19	0.41
2:cB:68:MET:SD	2:pg:102:LEU:HD13	2.59	0.41
2:cD:79:LEU:HD11	2:cG:59:TRP:HA	2.02	0.41
2:cE:4:ILE:HG23	1:pB:90:LEU:HB3	2.02	0.41
2:cG:9:ILE:HD11	2:pg:98:VAL:HG21	2.02	0.41
2:cP:8:LEU:HD12	2:cP:8:LEU:N	2.35	0.41
2:cP:98:VAL:HG21	2:fc:9:ILE:HD11	2.02	0.41
2:cR:79:LEU:HD11	2:cU:59:TRP:HA	2.02	0.41
1:cX:63:VAL:HG22	1:cX:75:LYS:N	2.35	0.41
1:da:87:ASP:CB	2:fp:5:THR:HG22	2.49	0.41
2:dh:248:ASN:OD1	2:dh:248:ASN:O	2.38	0.41
1:dj:65:ARG:HG2	1:dj:96:ASP:HB2	2.02	0.41
2:dr:191:SER:CB	2:dw:191:SER:HB3	2.50	0.41
2:ds:13:LYS:HB3	2:du:43:ALA:HB3	2.02	0.41
2:ds:59:TRP:NE1	2:ds:63:ARG:HG3	2.35	0.41
2:ds:70:ALA:HB2	2:ks:9:ILE:HD11	2.01	0.41
2:ds:208:GLU:OE1	2:ds:210:ARG:NE	2.53	0.41
2:dt:144:TYR:HB3	2:dt:145:PRO:CD	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:du:287:ALA:O	2:du:288:ASP:CG	2.63	0.41
2:dw:62:GLN:HB3	1:hM:103:ARG:O	2.20	0.41
2:dw:122:LEU:HD23	2:dw:122:LEU:C	2.45	0.41
1:dx:57:VAL:O	1:dx:79:GLY:O	2.38	0.41
1:dy:101:VAL:HG22	1:dy:102:GLU:N	2.35	0.41
1:dA:99:LEU:HD22	1:gw:60:ARG:HG2	2.01	0.41
1:dD:57:VAL:CG1	1:dD:59:VAL:HG13	2.50	0.41
2:dE:229:MET:HB3	2:dE:234:LEU:HD22	2.01	0.41
2:dI:144:TYR:CG	2:dI:145:PRO:HD2	2.55	0.41
2:dV:62:GLN:HG2	1:pC:103:ARG:H	1.85	0.41
2:dV:144:TYR:HB3	2:dV:145:PRO:CD	2.49	0.41
2:dX:9:ILE:HD11	2:jO:70:ALA:HB2	2.01	0.41
2:dY:106:MET:HE3	2:dY:206:ALA:HB3	2.02	0.41
1:ea:64:GLU:OE1	1:ea:66:ARG:NH2	2.53	0.41
2:eh:8:LEU:N	2:eh:8:LEU:HD12	2.35	0.41
2:eh:82:SER:HB2	2:eh:206:ALA:H	1.85	0.41
2:ek:144:TYR:CG	2:ek:145:PRO:HD2	2.55	0.41
2:el:248:ASN:OD1	2:el:248:ASN:O	2.38	0.41
2:el:281:GLN:O	2:el:289:ASN:N	2.53	0.41
2:em:107:GLY:HA3	2:em:184:TYR:OH	2.19	0.41
2:em:226:LEU:HA	2:em:238:ASN:ND2	2.35	0.41
2:em:228:ALA:HB3	2:em:273:LYS:HE3	2.02	0.41
1:eo:82:ASP:OD1	1:eo:83:GLY:N	2.51	0.41
1:es:101:VAL:O	1:es:101:VAL:HG23	2.19	0.41
2:eu:224:TRP:CE3	2:eu:226:LEU:HD12	2.55	0.41
2:eA:62:GLN:HB3	1:oZ:103:ARG:O	2.20	0.41
2:eA:238:ASN:O	2:eA:241:LYS:HG2	2.18	0.41
2:eA:245:ALA:O	2:eA:249:GLN:HG2	2.20	0.41
1:eD:103:ARG:H	2:fn:62:GLN:HG2	1.85	0.41
1:eH:60:ARG:HD2	1:eH:102:GLU:OE1	2.20	0.41
2:eK:13:LYS:HB3	2:eM:43:ALA:HB3	2.02	0.41
2:eL:144:TYR:HB3	2:eL:145:PRO:CD	2.49	0.41
2:eM:9:ILE:O	2:eM:9:ILE:CG2	2.68	0.41
2:eO:226:LEU:HA	2:eO:238:ASN:ND2	2.35	0.41
2:eO:229:MET:O	2:eO:285:ASN:ND2	2.52	0.41
1:eP:63:VAL:HG23	1:eP:78:GLN:H	1.84	0.41
1:eU:87:ASP:HB3	2:iN:5:THR:HG22	2.02	0.41
2:eX:82:SER:HB2	2:eX:206:ALA:H	1.85	0.41
2:fa:88:ARG:O	2:fa:91:ILE:HG12	2.19	0.41
2:fb:5:THR:HG22	1:iG:87:ASP:HB3	2.02	0.41
2:fc:236:GLN:CB	2:fc:240:GLU:HB3	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ff:63:VAL:HG22	1:ff:75:LYS:N	2.35	0.41
2:fl:191:SER:CB	2:fq:191:SER:HB3	2.50	0.41
2:fm:13:LYS:HB3	2:fo:43:ALA:HB3	2.02	0.41
2:fn:79:LEU:HD11	2:fq:59:TRP:HA	2.02	0.41
2:fq:182:LEU:O	2:fq:182:LEU:CD1	2.67	0.41
2:fq:232:GLU:O	2:fq:236:GLN:HG2	2.19	0.41
1:fs:90:LEU:HB3	2:of:4:ILE:HG23	2.02	0.41
2:fy:182:LEU:H	2:fy:182:LEU:HD23	1.85	0.41
2:fz:191:SER:CB	2:fe:191:SER:HB3	2.50	0.41
2:fA:59:TRP:NE1	2:fA:63:ARG:HG3	2.35	0.41
2:fA:61:GLY:HA2	1:nh:103:ARG:NE	2.35	0.41
2:fD:233:GLU:OE1	2:fD:234:LEU:HD22	2.20	0.41
2:fe:107:GLY:HA3	2:fe:184:TYR:OH	2.19	0.41
1:fF:57:VAL:O	1:fF:79:GLY:O	2.38	0.41
1:fK:87:ASP:CB	2:kG:5:THR:HG22	2.49	0.41
2:fP:234:LEU:HG	2:fP:239:PHE:HB2	2.02	0.41
2:fQ:144:TYR:CG	2:fQ:145:PRO:HD2	2.55	0.41
2:fQ:187:ARG:O	2:fQ:187:ARG:CG	2.68	0.41
1:fV:103:ARG:H	2:nC:62:GLN:HG2	1.85	0.41
2:gb:2:ALA:N	1:in:94:GLU:CG	2.83	0.41
2:gb:8:LEU:HD12	2:gb:8:LEU:N	2.35	0.41
2:gg:62:GLN:HE22	1:nt:104:CYS:HA	1.82	0.41
2:gt:238:ASN:O	2:gt:242:VAL:CG2	2.62	0.41
2:gu:249:GLN:HB3	2:gu:257:LEU:HD12	2.02	0.41
1:gA:87:ASP:HB3	2:pk:5:THR:HG22	2.02	0.41
2:gE:13:LYS:HB3	2:gG:43:ALA:HB3	2.02	0.41
2:gE:70:ALA:HB2	2:pk:9:ILE:HD11	2.01	0.41
2:gG:287:ALA:O	2:gG:288:ASP:CG	2.63	0.41
2:gH:9:ILE:HD11	2:ph:70:ALA:HB2	2.01	0.41
2:gI:30:THR:HG23	2:gI:298:LEU:HD13	2.02	0.41
2:gI:249:GLN:HB3	2:gI:257:LEU:HD12	2.03	0.41
2:gI:251:ALA:HB2	2:gI:257:LEU:HD21	2.01	0.41
1:gM:57:VAL:O	1:gM:59:VAL:HG23	2.19	0.41
2:gR:8:LEU:HD12	2:gR:8:LEU:N	2.35	0.41
2:gS:59:TRP:NE1	2:gS:63:ARG:HG3	2.35	0.41
2:gU:123:LYS:HD3	2:gU:303:LEU:HB2	2.02	0.41
2:gU:144:TYR:CG	2:gU:145:PRO:HD2	2.55	0.41
2:gW:30:THR:HG23	2:gW:298:LEU:HD13	2.02	0.41
2:gW:245:ALA:O	2:gW:249:GLN:HG2	2.20	0.41
1:hc:100:LYS:HB3	2:II:197:LYS:HZ2	1.85	0.41
2:hF:2:ALA:N	1:kI:94:GLU:CG	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hf:8:LEU:HD12	2:hf:8:LEU:N	2.35	0.41
2:hf:219:VAL:O	2:hf:219:VAL:CG1	2.66	0.41
2:hg:13:LYS:HB3	2:hi:43:ALA:HB3	2.02	0.41
2:hj:263:LEU:HD23	2:hj:296:GLN:HE21	1.83	0.41
2:hk:30:THR:HG23	2:hk:298:LEU:HD13	2.02	0.41
1:hl:94:GLU:CG	2:lG:2:ALA:N	2.82	0.41
2:hs:189:LYS:HZ1	5:qD:31:GLU:N	2.17	0.41
2:hu:90:ASP:O	2:hF:13:LYS:NZ	2.52	0.41
2:hx:228:ALA:HB3	2:hx:273:LYS:HE3	2.02	0.41
1:hy:58:PHE:HB3	1:hy:101:VAL:HG13	2.02	0.41
1:hy:65:ARG:HG2	1:hy:96:ASP:HB2	2.02	0.41
1:hA:102:GLU:HB3	1:lO:99:LEU:HD23	1.96	0.41
2:hF:182:LEU:H	2:hF:182:LEU:HD23	1.85	0.41
2:hF:224:TRP:CE3	2:hF:226:LEU:HD12	2.55	0.41
2:hH:234:LEU:HG	2:hH:239:PHE:HB2	2.02	0.41
2:hJ:5:THR:HG22	1:kN:87:ASP:HB3	2.02	0.41
2:hJ:77:ASN:ND2	2:hJ:209:TYR:O	2.53	0.41
2:hK:232:GLU:O	2:hK:236:GLN:HG2	2.19	0.41
2:hT:42:THR:HG22	2:hT:43:ALA:H	1.85	0.41
2:hW:228:ALA:O	2:hW:284:ALA:HB2	2.20	0.41
1:ie:87:ASP:HB3	2:nE:5:THR:HG22	2.02	0.41
2:ih:191:SER:CB	2:im:191:SER:HB3	2.50	0.41
1:ip:103:ARG:H	2:lu:62:GLN:HG2	1.85	0.41
1:is:87:ASP:HB3	2:ou:5:THR:HG22	2.02	0.41
2:iv:8:LEU:HD12	2:iv:8:LEU:N	2.35	0.41
2:ix:277:VAL:O	2:ix:289:ASN:ND2	2.48	0.41
2:iz:233:GLU:OE1	2:iz:234:LEU:HD22	2.20	0.41
1:iH:60:ARG:HD2	1:iH:102:GLU:OE1	2.20	0.41
2:iJ:278:VAL:O	2:iJ:278:VAL:HG23	2.19	0.41
2:iK:63:ARG:NH2	2:iN:207:ASP:OD1	2.53	0.41
2:iN:248:ASN:OD1	2:iN:248:ASN:O	2.38	0.41
2:iN:263:LEU:HD23	2:iN:296:GLN:HE21	1.83	0.41
2:iW:62:GLN:OE1	1:jh:102:GLU:HG2	2.02	0.41
2:iX:82:SER:HB2	2:iX:206:ALA:H	1.85	0.41
2:jb:144:TYR:HB3	2:jb:145:PRO:HD3	2.01	0.41
1:je:64:GLU:OE1	1:je:66:ARG:NH2	2.53	0.41
1:jf:63:VAL:HG22	1:jf:75:LYS:N	2.35	0.41
1:ji:86:SER:O	1:ji:90:LEU:N	2.50	0.41
1:jj:60:ARG:HD2	1:jj:102:GLU:OE1	2.20	0.41
2:jl:21:GLN:O	2:jl:22:ASP:OD1	2.37	0.41
2:jm:208:GLU:OE1	2:jm:210:ARG:NE	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jo:123:LYS:HD3	2:jo:303:LEU:HB2	2.02	0.41
2:jo:187:ARG:O	2:jo:187:ARG:CG	2.68	0.41
2:jo:228:ALA:O	2:jo:284:ALA:HB2	2.20	0.41
2:jo:287:ALA:O	2:jo:288:ASP:CG	2.63	0.41
1:js:90:LEU:HB3	2:nb:4:ILE:HG23	2.02	0.41
1:ju:99:LEU:HD22	1:jU:60:ARG:HG2	2.01	0.41
2:jz:44:SER:OG	2:jz:45:ASN:N	2.51	0.41
2:jz:98:VAL:HG21	2:qb:9:ILE:HD11	2.02	0.41
2:jE:264:LEU:HB2	2:jE:295:VAL:HG11	2.02	0.41
1:jH:63:VAL:HG22	1:jH:75:LYS:N	2.35	0.41
1:jJ:96:ASP:OD1	2:jR:64:VAL:HG13	2.19	0.41
2:jO:208:GLU:OE1	2:jO:210:ARG:NE	2.53	0.41
2:jR:233:GLU:OE1	2:jR:234:LEU:HD22	2.20	0.41
2:jS:9:ILE:HD11	2:pI:98:VAL:HG21	2.02	0.41
2:jS:62:GLN:HB3	1:oj:103:ARG:O	2.20	0.41
2:jS:106:MET:HE3	2:jS:206:ALA:HB3	2.02	0.41
2:jS:182:LEU:O	2:jS:182:LEU:CD1	2.67	0.41
2:jS:251:ALA:HB2	2:jS:257:LEU:HD21	2.01	0.41
2:ke:9:ILE:O	2:ke:9:ILE:CG2	2.68	0.41
2:ke:88:ARG:O	2:ke:91:ILE:HG12	2.19	0.41
1:kj:63:VAL:HG22	1:kj:75:LYS:N	2.35	0.41
1:kn:60:ARG:HD2	1:kn:102:GLU:OE1	2.20	0.41
2:ko:170:TRP:HE1	5:qF:30:LYS:CG	2.27	0.41
2:kp:13:LYS:HB3	2:kr:43:ALA:HB3	2.02	0.41
2:kp:280:VAL:HG22	2:kp:282:ARG:H	1.85	0.41
2:ks:233:GLU:OE1	2:ks:234:LEU:HD22	2.20	0.41
2:ks:294:LEU:CD2	2:ks:295:VAL:HG23	2.39	0.41
2:kt:30:THR:HG23	2:kt:298:LEU:HD13	2.02	0.41
2:kt:107:GLY:HA3	2:kt:184:TYR:OH	2.19	0.41
2:kD:280:VAL:HG22	2:kD:282:ARG:H	1.85	0.41
2:kF:287:ALA:O	2:kF:288:ASP:CG	2.63	0.41
1:kL:103:ARG:NE	2:mZ:61:GLY:CA	2.83	0.41
2:kP:224:TRP:CE3	2:kP:226:LEU:HD12	2.55	0.41
2:kQ:44:SER:OG	2:kQ:45:ASN:N	2.51	0.41
2:kT:144:TYR:CG	2:kT:145:PRO:HD2	2.55	0.41
2:kU:77:ASN:ND2	2:kU:209:TYR:O	2.53	0.41
2:kV:122:LEU:C	2:kV:122:LEU:HD23	2.45	0.41
1:kW:57:VAL:O	1:kW:79:GLY:O	2.38	0.41
2:ld:224:TRP:CE3	2:ld:226:LEU:HD12	2.55	0.41
2:lf:63:ARG:NH2	2:li:207:ASP:OD1	2.53	0.41
2:lh:123:LYS:HD3	2:lh:303:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lm:63:VAL:HG22	1:lm:75:LYS:N	2.35	0.41
1:lo:82:ASP:OD1	1:lo:83:GLY:N	2.52	0.41
2:lt:280:VAL:HG22	2:lt:282:ARG:H	1.85	0.41
2:lv:9:ILE:O	2:lv:9:ILE:CG2	2.68	0.41
2:lv:20:PHE:CD1	2:lv:20:PHE:N	2.87	0.41
2:lv:187:ARG:O	2:lv:187:ARG:CG	2.68	0.41
2:lx:30:THR:HG23	2:lx:298:LEU:HD13	2.02	0.41
2:lx:226:LEU:HA	2:lx:238:ASN:ND2	2.35	0.41
2:lx:236:GLN:HB2	2:lx:240:GLU:HB3	2.00	0.41
2:lG:8:LEU:HD12	2:lG:8:LEU:N	2.35	0.41
2:lI:234:LEU:HG	2:lI:239:PHE:HB2	2.02	0.41
2:lJ:113:HIS:CE1	2:lJ:117:LEU:HD11	2.54	0.41
2:lJ:187:ARG:O	2:lJ:187:ARG:CG	2.68	0.41
2:lL:9:ILE:HD11	2:mY:98:VAL:HG21	2.02	0.41
2:lL:226:LEU:HA	2:lL:238:ASN:ND2	2.35	0.41
2:lL:236:GLN:CB	2:lL:240:GLU:HB3	2.49	0.41
2:lU:21:GLN:O	2:lU:22:ASP:OD1	2.37	0.41
2:lX:144:TYR:CG	2:lX:145:PRO:HD2	2.55	0.41
2:lX:287:ALA:O	2:lX:288:ASP:CG	2.63	0.41
2:lY:89:THR:N	2:lY:200:ASP:OD2	2.36	0.41
1:mc:63:VAL:HG22	1:mc:75:LYS:N	2.35	0.41
2:mh:61:GLY:CA	1:ms:103:ARG:HD2	2.40	0.41
2:mj:208:GLU:OE1	2:mj:210:ARG:NE	2.53	0.41
2:mm:263:LEU:HD23	2:mm:296:GLN:HE21	1.83	0.41
2:mn:245:ALA:O	2:mn:249:GLN:HG2	2.20	0.41
1:mo:100:LYS:CG	1:mu:100:LYS:HZ3	2.00	0.41
1:mt:60:ARG:CB	1:mt:102:GLU:HB3	2.50	0.41
2:mv:150:THR:OG1	2:mv:220:GLY:O	2.18	0.41
2:mw:2:ALA:N	1:oK:94:GLU:CG	2.83	0.41
2:mw:173:LEU:HA	2:mw:215:SER:HB3	2.01	0.41
2:mx:208:GLU:OE1	2:mx:210:ARG:NE	2.53	0.41
2:mz:20:PHE:N	2:mz:20:PHE:CD1	2.87	0.41
1:mC:58:PHE:HB3	1:mC:101:VAL:HG13	2.02	0.41
2:mJ:189:LYS:O	2:mJ:190:PRO:C	2.61	0.41
2:mK:8:LEU:HD12	2:mK:8:LEU:N	2.35	0.41
2:mM:148:ASP:OD1	2:mM:149:GLY:N	2.53	0.41
2:mP:232:GLU:O	2:mP:236:GLN:HG2	2.19	0.41
1:mU:60:ARG:HB2	1:mU:102:GLU:O	2.18	0.41
2:mX:229:MET:HB3	2:mX:234:LEU:HD22	2.01	0.41
2:mY:77:ASN:HD21	2:mY:179:LEU:HD11	1.84	0.41
2:mY:213:VAL:HG12	2:mY:214:ARG:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nd:229:MET:O	2:nd:285:ASN:ND2	2.52	0.41
2:nd:251:ALA:HB2	2:nd:257:LEU:HD21	2.01	0.41
1:ne:59:VAL:HG12	1:ne:61:ALA:N	2.28	0.41
1:ne:63:VAL:HG23	1:ne:78:GLN:H	1.84	0.41
2:nl:13:LYS:NZ	2:oG:90:ASP:O	2.52	0.41
2:nn:280:VAL:HG22	2:nn:282:ARG:H	1.85	0.41
2:nq:144:TYR:HB3	2:nq:145:PRO:HD3	2.01	0.41
2:nr:228:ALA:HB3	2:nr:273:LYS:HE3	2.02	0.41
2:nC:230:SER:O	2:nC:231:THR:HG22	2.20	0.41
2:nD:88:ARG:O	2:nD:91:ILE:HG12	2.19	0.41
1:nG:65:ARG:HG2	1:nG:96:ASP:HB2	2.02	0.41
2:nS:238:ASN:O	2:nS:242:VAL:CG2	2.62	0.41
2:nT:30:THR:HG23	2:nT:298:LEU:HD13	2.02	0.41
2:nT:226:LEU:HA	2:nT:238:ASN:ND2	2.35	0.41
2:nT:264:LEU:HB2	2:nT:295:VAL:HG11	2.02	0.41
1:oa:60:ARG:HD2	1:oa:102:GLU:OE1	2.20	0.41
2:oe:230:SER:O	2:oe:231:THR:HG22	2.20	0.41
2:oh:122:LEU:HD23	2:oh:122:LEU:C	2.45	0.41
2:oh:226:LEU:HA	2:oh:238:ASN:ND2	2.35	0.41
1:oi:63:VAL:HG23	1:oi:78:GLN:H	1.84	0.41
1:ok:63:VAL:HG22	1:ok:75:LYS:N	2.35	0.41
2:oq:68:MET:SD	2:pW:102:LEU:HD13	2.59	0.41
2:or:208:GLU:OE1	2:or:210:ARG:NE	2.53	0.41
2:ov:122:LEU:C	2:ov:122:LEU:HD23	2.45	0.41
2:ov:245:ALA:O	2:ov:249:GLN:HG2	2.20	0.41
1:ow:57:VAL:O	1:ow:79:GLY:O	2.38	0.41
1:ow:63:VAL:HG23	1:ow:78:GLN:H	1.84	0.41
2:oH:187:ARG:O	2:oH:187:ARG:CG	2.68	0.41
2:oJ:144:TYR:HH	2:oJ:254:GLY:H	1.68	0.41
2:oJ:236:GLN:CB	2:oJ:240:GLU:HB3	2.49	0.41
1:oK:57:VAL:O	1:oK:79:GLY:O	2.38	0.41
1:oQ:60:ARG:HD2	1:oQ:102:GLU:OE1	2.20	0.41
2:oS:141:HIS:HB3	2:oS:143:VAL:HG23	2.01	0.41
2:oX:232:GLU:O	2:oX:236:GLN:HG2	2.19	0.41
1:pe:62:THR:HG21	1:pe:97:PRO:HB3	2.03	0.41
2:pk:281:GLN:O	2:pk:289:ASN:N	2.53	0.41
2:pl:107:GLY:HA3	2:pl:184:TYR:OH	2.19	0.41
2:pl:228:ALA:HB3	2:pl:273:LYS:HE3	2.02	0.41
2:pl:232:GLU:O	2:pl:236:GLN:HG2	2.19	0.41
2:pl:264:LEU:HB2	2:pl:295:VAL:HG11	2.02	0.41
1:pn:101:VAL:HG22	1:pn:102:GLU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ps:60:ARG:HD2	1:ps:102:GLU:OE1	2.20	0.41
2:pu:42:THR:HG22	2:pu:43:ALA:H	1.85	0.41
2:pu:201:GLU:O	2:pu:202:GLN:C	2.62	0.41
2:px:187:ARG:CG	2:px:187:ARG:O	2.68	0.41
2:py:248:ASN:OD1	2:py:248:ASN:O	2.38	0.41
2:pz:106:MET:HE3	2:pz:206:ALA:HB3	2.02	0.41
2:pz:245:ALA:O	2:pz:249:GLN:HG2	2.20	0.41
2:pJ:59:TRP:NE1	2:pJ:63:ARG:HG3	2.35	0.41
2:pL:187:ARG:O	2:pL:187:ARG:CG	2.68	0.41
1:pO:58:PHE:HB3	1:pO:101:VAL:HG13	2.02	0.41
2:pW:201:GLU:O	2:pW:202:GLN:C	2.62	0.41
2:pX:63:ARG:NH2	2:qa:207:ASP:OD1	2.53	0.41
2:qb:251:ALA:HB2	2:qb:257:LEU:HD21	2.01	0.41
1:qc:58:PHE:HB3	1:qc:101:VAL:HG13	2.02	0.41
3:qd:66:GLN:CG	4:qn:8:TYR:O	2.68	0.41
3:qf:65:GLY:O	4:ql:8:TYR:CD2	2.73	0.41
3:qg:31:VAL:HG13	3:qg:48:TYR:CD1	2.55	0.41
3:qg:66:GLN:C	4:qk:8:TYR:CD2	2.98	0.41
4:qj:55:ALA:CB	4:qo:64:LYS:O	2.69	0.41
4:qn:79:ASN:O	4:qn:83:THR:HG22	2.20	0.41
4:qn:179:THR:HG22	4:qo:247:GLY:CA	2.49	0.41
5:qp:241:PRO:N	5:qr:268:GLU:OE2	2.51	0.41
5:qp:248:LYS:HD3	6:qs:123:ASN:HA	1.53	0.41
5:qr:304:THR:OG1	5:qr:326:VAL:HG21	2.20	0.41
5:qz:304:THR:OG1	5:qz:326:VAL:HG21	2.20	0.41
5:qF:73:HIS:O	5:qF:77:GLU:HG2	2.20	0.41
5:qL:304:THR:OG1	5:qL:326:VAL:HG21	2.20	0.41
1:ab:102:GLU:HB3	1:mE:99:LEU:HD23	1.96	0.41
2:ag:13:LYS:NZ	2:oe:90:ASP:O	2.52	0.41
2:ag:182:LEU:H	2:ag:182:LEU:HD23	1.85	0.41
2:ah:8:LEU:HD12	2:ah:8:LEU:N	2.35	0.41
2:ah:82:SER:HB2	2:ah:206:ALA:H	1.85	0.41
2:ah:177:ARG:HH11	2:ah:177:ARG:HG3	1.83	0.41
2:ak:20:PHE:CD1	2:ak:20:PHE:N	2.87	0.41
2:al:233:GLU:OE1	2:al:234:LEU:HD22	2.20	0.41
2:am:226:LEU:HD21	2:am:273:LYS:HB3	2.03	0.41
2:am:249:GLN:HB3	2:am:257:LEU:HD12	2.03	0.41
1:ap:102:GLU:HB3	1:dl:99:LEU:HD23	1.96	0.41
1:at:57:VAL:CG1	1:at:59:VAL:HG13	2.50	0.41
2:aw:62:GLN:HG2	1:hN:103:ARG:H	1.85	0.41
2:aw:79:LEU:HD11	2:az:59:TRP:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ax:88:ARG:O	2:ax:91:ILE:HG12	2.19	0.41
2:ax:113:HIS:CE1	2:ax:117:LEU:HD11	2.54	0.41
2:ax:287:ALA:O	2:ax:288:ASP:CG	2.63	0.41
2:ay:281:GLN:O	2:ay:289:ASN:N	2.53	0.41
2:az:30:THR:HG23	2:az:298:LEU:HD13	2.02	0.41
2:az:106:MET:HE3	2:az:206:ALA:HB3	2.02	0.41
2:aI:8:LEU:HD12	2:aI:8:LEU:N	2.35	0.41
2:aJ:197:LYS:HZ1	1:kL:99:LEU:CA	2.15	0.41
2:aL:144:TYR:CG	2:aL:145:PRO:HD2	2.55	0.41
2:aL:187:ARG:O	2:aL:187:ARG:CG	2.68	0.41
2:aM:179:LEU:HD22	2:aM:209:TYR:HD2	1.86	0.41
2:aX:59:TRP:NE1	2:aX:63:ARG:HG3	2.35	0.41
2:ba:248:ASN:OD1	2:ba:248:ASN:O	2.37	0.41
2:bb:182:LEU:O	2:bb:182:LEU:CD1	2.67	0.41
2:bb:232:GLU:O	2:bb:236:GLN:HG2	2.19	0.41
1:bc:57:VAL:O	1:bc:79:GLY:O	2.38	0.41
1:bc:58:PHE:HB3	1:bc:101:VAL:HG13	2.02	0.41
1:bd:64:GLU:OE1	1:bd:66:ARG:NH2	2.53	0.41
1:bd:101:VAL:HG22	1:bd:102:GLU:N	2.35	0.41
1:be:63:VAL:HG22	1:be:75:LYS:N	2.35	0.41
1:bg:96:ASP:OD1	2:bo:64:VAL:HG13	2.19	0.41
2:bj:98:VAL:O	2:bj:99:TYR:HB3	2.21	0.41
2:bk:82:SER:HB2	2:bk:206:ALA:H	1.85	0.41
2:bm:66:LYS:HB2	2:bn:84:VAL:HG12	2.01	0.41
2:bo:200:ASP:OD1	2:bo:200:ASP:N	2.50	0.41
2:bo:263:LEU:HD23	2:bo:296:GLN:HE21	1.83	0.41
2:bp:243:TYR:CD1	2:bp:294:LEU:HD21	2.56	0.41
1:bs:63:VAL:HG22	1:bs:75:LYS:N	2.35	0.41
1:bt:103:ARG:NE	2:hU:61:GLY:CA	2.83	0.41
1:bv:86:SER:O	1:bv:90:LEU:N	2.51	0.41
2:by:173:LEU:HA	2:by:215:SER:HB3	2.01	0.41
2:bB:187:ARG:O	2:bB:187:ARG:CG	2.68	0.41
2:bC:5:THR:HG22	1:dC:87:ASP:HB3	2.02	0.41
2:bD:226:LEU:HA	2:bD:238:ASN:ND2	2.35	0.41
1:bE:94:GLU:CG	2:dd:2:ALA:N	2.83	0.41
2:bL:182:LEU:HD21	5:qr:178:PRO:O	2.19	0.41
2:bO:144:TYR:CG	2:bO:145:PRO:HD2	2.55	0.41
1:bU:103:ARG:NE	2:iK:61:GLY:CA	2.83	0.41
1:bW:57:VAL:HG22	1:bW:104:CYS:H	1.83	0.41
1:bW:100:LYS:HB3	2:dt:197:LYS:HZ2	1.85	0.41
2:cc:9:ILE:O	2:cc:9:ILE:CG2	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cc:30:THR:HG21	2:cc:298:LEU:HD13	2.01	0.41
2:cc:287:ALA:O	2:cc:288:ASP:CG	2.64	0.41
2:cd:5:THR:HG22	1:hQ:87:ASP:HB3	2.02	0.41
2:co:63:ARG:NH2	2:cr:207:ASP:OD1	2.53	0.41
2:cp:79:LEU:HD11	2:cs:59:TRP:HA	2.02	0.41
2:cr:197:LYS:NZ	2:lv:62:GLN:NE2	2.68	0.41
2:cA:98:VAL:O	2:cA:99:TYR:HB3	2.21	0.41
2:cD:197:LYS:HZ2	1:cM:100:LYS:HB3	1.85	0.41
2:cE:287:ALA:O	2:cE:288:ASP:CG	2.64	0.41
2:cF:5:THR:HG22	1:nL:87:ASP:HB3	2.02	0.41
2:cF:9:ILE:HD11	2:nP:70:ALA:HB2	2.01	0.41
1:cK:103:ARG:NE	2:eY:61:GLY:CA	2.83	0.41
2:cO:229:MET:HB3	2:cO:234:LEU:HD22	2.01	0.41
2:cS:30:THR:HG21	2:cS:298:LEU:HD13	2.01	0.41
2:cT:9:ILE:HD11	2:pJ:70:ALA:HB2	2.01	0.41
2:cU:122:LEU:HD23	2:cU:122:LEU:C	2.45	0.41
2:cU:226:LEU:HA	2:cU:238:ASN:ND2	2.35	0.41
2:df:62:GLN:HG2	1:gx:103:ARG:H	1.85	0.41
2:df:277:VAL:O	2:df:289:ASN:ND2	2.48	0.41
2:dh:5:THR:HG22	1:fi:87:ASP:HB3	2.02	0.41
2:di:122:LEU:C	2:di:122:LEU:HD23	2.45	0.41
2:di:226:LEU:HA	2:di:238:ASN:ND2	2.35	0.41
1:dk:64:GLU:OE1	1:dk:66:ARG:NH2	2.53	0.41
1:dl:103:ARG:H	2:hV:62:GLN:HG2	1.85	0.41
2:du:144:TYR:CG	2:du:145:PRO:HD2	2.55	0.41
2:dW:264:LEU:HB2	2:dW:295:VAL:HG11	2.02	0.41
2:dE:3:ILE:HG22	2:dE:5:THR:H	1.83	0.41
2:dE:182:LEU:H	2:dE:182:LEU:HD23	1.85	0.41
2:dG:24:LEU:HD11	2:dI:257:LEU:HD12	2.01	0.41
2:dK:228:ALA:HB3	2:dK:273:LYS:HE3	2.02	0.41
2:dS:303:LEU:HD23	2:dS:303:LEU:H	1.85	0.41
2:dW:20:PHE:N	2:dW:20:PHE:CD1	2.87	0.41
2:dX:5:THR:HG22	1:jK:87:ASP:HB3	2.02	0.41
2:dY:249:GLN:HB3	2:dY:257:LEU:HD12	2.03	0.41
1:ea:90:LEU:HB3	2:fC:4:ILE:HG23	2.02	0.41
2:eg:303:LEU:H	2:eg:303:LEU:HD23	1.85	0.41
2:eh:278:VAL:O	2:eh:278:VAL:HG23	2.19	0.41
2:ei:280:VAL:HG22	2:ei:282:ARG:H	1.85	0.41
1:et:60:ARG:HD2	1:et:102:GLU:OE1	2.20	0.41
2:eu:229:MET:HB3	2:eu:234:LEU:HD22	2.01	0.41
2:ev:82:SER:HB2	2:ev:206:ALA:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eA:122:LEU:C	2:eA:122:LEU:HD23	2.45	0.41
1:eE:99:LEU:HD22	1:fe:60:ARG:HG2	2.01	0.41
1:eG:87:ASP:HB3	2:gV:5:THR:HG22	2.02	0.41
2:eL:83:THR:HG23	2:eL:205:MET:CG	2.51	0.41
2:eN:281:GLN:O	2:eN:289:ASN:N	2.53	0.41
2:eO:232:GLU:O	2:eO:236:GLN:HG2	2.19	0.41
2:eO:245:ALA:O	2:eO:249:GLN:HG2	2.20	0.41
1:eU:60:ARG:CB	1:eU:102:GLU:HB3	2.50	0.41
2:fc:122:LEU:C	2:fc:122:LEU:HD23	2.45	0.41
2:fc:245:ALA:O	2:fc:249:GLN:HG2	2.20	0.41
2:fm:63:ARG:NH2	2:fp:207:ASP:OD1	2.53	0.41
2:fo:20:PHE:CD1	2:fo:20:PHE:N	2.87	0.41
2:fq:236:GLN:CB	2:fq:240:GLU:HB3	2.49	0.41
2:fy:61:GLY:CA	1:me:103:ARG:HD2	2.40	0.41
2:fE:144:TYR:HH	2:fE:254:GLY:H	1.68	0.41
1:fJ:96:ASP:OD1	2:FR:64:VAL:HG13	2.19	0.41
2:fM:303:LEU:HD23	2:fM:303:LEU:H	1.85	0.41
2:fN:191:SER:CB	2:fS:191:SER:HB3	2.50	0.41
2:FR:233:GLU:OE1	2:FR:234:LEU:HD22	2.20	0.41
1:fV:58:PHE:HB3	1:fV:101:VAL:HG21	2.02	0.41
2:ge:20:PHE:N	2:ge:20:PHE:CD1	2.87	0.41
2:gg:106:MET:HE3	2:gg:206:ALA:HB3	2.02	0.41
1:gi:64:GLU:OE1	1:gi:66:ARG:NH2	2.53	0.41
1:gm:60:ARG:CB	1:gm:102:GLU:HB3	2.50	0.41
2:gq:61:GLY:CA	1:hO:103:ARG:NE	2.83	0.41
2:gt:233:GLU:OE1	2:gt:234:LEU:HD22	2.20	0.41
2:gu:182:LEU:O	2:gu:182:LEU:CD1	2.67	0.41
2:gu:185:GLN:O	2:gu:205:MET:N	2.43	0.41
1:gv:58:PHE:HB3	1:gv:101:VAL:HG13	2.02	0.41
1:gB:60:ARG:HD2	1:gB:102:GLU:OE1	2.20	0.41
2:gH:248:ASN:O	2:gH:248:ASN:OD1	2.38	0.41
1:gK:64:GLU:OE1	1:gK:66:ARG:NH2	2.53	0.41
1:gO:100:LYS:HB3	2:ij:197:LYS:HZ2	1.86	0.41
2:gR:141:HIS:HB3	2:gR:143:VAL:HG23	2.01	0.41
2:gT:83:THR:HG23	2:gT:205:MET:CG	2.51	0.41
2:gV:77:ASN:ND2	2:gV:209:TYR:O	2.53	0.41
2:he:229:MET:HB3	2:he:234:LEU:HD22	2.01	0.41
2:he:303:LEU:H	2:he:303:LEU:HD23	1.86	0.41
2:hg:280:VAL:HG22	2:hg:282:ARG:H	1.85	0.41
2:hh:230:SER:O	2:hh:231:THR:HG22	2.20	0.41
2:hk:189:LYS:HZ3	2:hk:192:PHE:HE1	1.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hk:226:LEU:HA	2:hk:238:ASN:ND2	2.35	0.41
1:ho:103:ARG:NE	2:hG:61:GLY:CA	2.83	0.41
2:ht:61:GLY:HA2	1:kk:103:ARG:NE	2.35	0.41
2:ht:208:GLU:OE1	2:ht:210:ARG:NE	2.53	0.41
2:hv:144:TYR:CG	2:hv:145:PRO:HD2	2.55	0.41
2:hx:122:LEU:HD23	2:hx:122:LEU:C	2.45	0.41
1:hz:60:ARG:HG2	1:kx:99:LEU:HD22	2.01	0.41
1:hz:82:ASP:OD1	1:hz:83:GLY:N	2.51	0.41
1:hz:103:ARG:O	2:kH:62:GLN:HB3	2.20	0.41
1:hz:104:CYS:HA	2:kH:62:GLN:HE22	1.82	0.41
1:hE:57:VAL:CG1	1:hE:59:VAL:HG13	2.50	0.41
2:hG:59:TRP:NE1	2:hG:63:ARG:HG3	2.35	0.41
2:hH:230:SER:O	2:hH:231:THR:HG22	2.20	0.41
2:hI:144:TYR:CG	2:hI:145:PRO:HD2	2.55	0.41
2:hI:187:ARG:O	2:hI:187:ARG:CG	2.68	0.41
2:hK:106:MET:HE3	2:hK:206:ALA:HB3	2.02	0.41
2:hK:215:SER:OG	2:hK:216:ARG:N	2.52	0.41
1:hR:57:VAL:CG1	1:hR:59:VAL:HG13	2.50	0.41
2:hS:98:VAL:O	2:hS:99:TYR:HB3	2.20	0.41
2:hS:303:LEU:H	2:hS:303:LEU:HD23	1.86	0.41
2:hW:9:ILE:O	2:hW:9:ILE:CG2	2.68	0.41
2:hW:144:TYR:CG	2:hW:145:PRO:HD2	2.55	0.41
2:hY:122:LEU:HD23	2:hY:122:LEU:C	2.45	0.41
2:hY:249:GLN:HB3	2:hY:257:LEU:HD12	2.03	0.41
1:ib:63:VAL:HG22	1:ib:75:LYS:N	2.35	0.41
2:ig:303:LEU:H	2:ig:303:LEU:HD23	1.86	0.41
2:il:263:LEU:HD23	2:il:296:GLN:HE21	1.84	0.41
1:in:58:PHE:HB3	1:in:101:VAL:HG13	2.02	0.41
1:io:60:ARG:O	1:io:61:ALA:HB3	2.21	0.41
2:iv:42:THR:HG22	2:iv:43:ALA:H	1.85	0.41
2:iw:59:TRP:NE1	2:iw:63:ARG:HG3	2.36	0.41
2:ix:234:LEU:HG	2:ix:239:PHE:HB2	2.02	0.41
2:iy:9:ILE:O	2:iy:9:ILE:CG2	2.68	0.41
2:iI:98:VAL:O	2:iI:99:TYR:HB3	2.20	0.41
2:iK:280:VAL:HG22	2:iK:282:ARG:H	1.85	0.41
2:iL:79:LEU:HD11	2:iO:59:TRP:HA	2.02	0.41
2:ja:30:THR:HG21	2:ja:298:LEU:HD13	2.01	0.41
2:ja:123:LYS:HD3	2:ja:303:LEU:HB2	2.02	0.41
2:ja:287:ALA:O	2:ja:288:ASP:CG	2.63	0.41
2:jl:98:VAL:HG21	2:lx:9:ILE:HD11	2.02	0.41
2:jl:192:PHE:HZ	2:jq:196:THR:HG21	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jp:77:ASN:ND2	2:jp:209:TYR:O	2.53	0.41
1:jt:63:VAL:HG22	1:jt:75:LYS:N	2.35	0.41
2:jz:213:VAL:HG12	2:jz:214:ARG:O	2.20	0.41
2:jB:148:ASP:OD1	2:jB:149:GLY:N	2.53	0.41
1:jF:65:ARG:HG2	1:jF:96:ASP:HB2	2.02	0.41
1:jI:99:LEU:HA	2:or:197:LYS:CE	2.49	0.41
2:jP:62:GLN:HG2	1:oM:103:ARG:H	1.85	0.41
2:jQ:228:ALA:O	2:jQ:284:ALA:HB2	2.20	0.41
2:kb:77:ASN:HD21	2:kb:179:LEU:HD11	1.84	0.41
2:kb:219:VAL:O	2:kb:219:VAL:CG1	2.66	0.41
2:kd:234:LEU:HG	2:kd:239:PHE:HB2	2.02	0.41
2:ke:280:VAL:O	2:ke:289:ASN:ND2	2.54	0.41
2:kf:77:ASN:ND2	2:kf:209:TYR:O	2.53	0.41
1:kh:59:VAL:HG12	1:kh:61:ALA:N	2.28	0.41
1:kh:63:VAL:HG23	1:kh:78:GLN:H	1.84	0.41
1:kv:90:LEU:HB3	2:lX:4:ILE:HG23	2.02	0.41
1:kw:63:VAL:HG22	1:kw:75:LYS:N	2.35	0.41
2:kD:13:LYS:HB3	2:kF:43:ALA:HB3	2.02	0.41
2:kH:249:GLN:HB3	2:kH:257:LEU:HD12	2.03	0.41
2:kQ:213:VAL:HG12	2:kQ:214:ARG:O	2.20	0.41
2:kV:264:LEU:HB2	2:kV:295:VAL:HG11	2.02	0.41
1:kY:63:VAL:HG22	1:kY:75:LYS:N	2.35	0.41
1:kY:95:SER:OG	1:kY:96:ASP:N	2.52	0.41
1:lb:60:ARG:CB	1:lb:102:GLU:HB3	2.50	0.41
1:lc:57:VAL:CG1	1:lc:59:VAL:HG13	2.50	0.41
2:le:191:SER:CB	2:lj:191:SER:HB3	2.50	0.41
2:le:278:VAL:O	2:le:278:VAL:HG23	2.19	0.41
2:lf:61:GLY:CA	1:mF:103:ARG:NE	2.83	0.41
2:lg:83:THR:HG23	2:lg:205:MET:CG	2.51	0.41
2:lg:230:SER:O	2:lg:231:THR:HG22	2.20	0.41
2:lh:20:PHE:N	2:lh:20:PHE:CD1	2.87	0.41
2:li:77:ASN:ND2	2:li:209:TYR:O	2.53	0.41
2:lj:236:GLN:CB	2:lj:240:GLU:HB3	2.49	0.41
1:lk:57:VAL:O	1:lk:79:GLY:O	2.38	0.41
2:lu:83:THR:HG23	2:lu:205:MET:CG	2.51	0.41
2:lw:233:GLU:OE1	2:lw:234:LEU:HD22	2.20	0.41
2:lx:106:MET:HE3	2:lx:206:ALA:HB3	2.02	0.41
2:lx:236:GLN:CB	2:lx:240:GLU:HB3	2.49	0.41
2:lF:182:LEU:H	2:lF:182:LEU:HD23	1.85	0.41
2:lH:208:GLU:OE1	2:lH:210:ARG:NE	2.53	0.41
2:lH:280:VAL:HG22	2:lH:282:ARG:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IL:30:THR:HG23	2:IL:298:LEU:HD13	2.02	0.41
2:IL:62:GLN:HE22	1:ox:104:CYS:HA	1.82	0.41
2:IY:233:GLU:OE1	2:IY:234:LEU:HD22	2.20	0.41
1:mb:60:ARG:HG2	1:nv:99:LEU:HD22	2.01	0.41
1:mb:90:LEU:HB3	2:nD:4:ILE:HG23	2.02	0.41
1:md:103:ARG:NE	2:mx:61:GLY:HA2	2.35	0.41
2:mi:201:GLU:O	2:mi:202:GLN:C	2.62	0.41
2:mi:278:VAL:O	2:mi:278:VAL:HG23	2.19	0.41
2:mn:249:GLN:HB3	2:mn:257:LEU:HD12	2.03	0.41
1:mq:58:PHE:HB3	1:mq:101:VAL:HG21	2.03	0.41
1:mq:63:VAL:HG22	1:mq:75:LYS:N	2.35	0.41
2:mz:228:ALA:O	2:mz:284:ALA:HB2	2.20	0.41
2:mL:208:GLU:OE1	2:mL:210:ARG:NE	2.53	0.41
2:mM:66:LYS:HB2	2:mN:84:VAL:HG12	2.02	0.41
2:mM:144:TYR:HB3	2:mM:145:PRO:CD	2.49	0.41
2:mN:187:ARG:O	2:mN:187:ARG:CG	2.68	0.41
2:mN:228:ALA:O	2:mN:284:ALA:HB2	2.20	0.41
2:mO:9:ILE:HD11	2:oT:70:ALA:HB2	2.01	0.41
2:mO:197:LYS:NZ	2:oV:62:GLN:NE2	2.68	0.41
2:mP:245:ALA:O	2:mP:249:GLN:HG2	2.20	0.41
1:mV:60:ARG:CB	1:mV:102:GLU:HB3	2.50	0.41
2:mY:8:LEU:HD12	2:mY:8:LEU:N	2.35	0.41
2:nb:182:LEU:HG	2:nb:182:LEU:O	2.21	0.41
2:nc:42:THR:O	2:nc:179:LEU:HD11	2.21	0.41
2:nc:77:ASN:ND2	2:nc:209:TYR:O	2.53	0.41
2:nc:179:LEU:HD22	2:nc:209:TYR:HD2	1.86	0.41
2:nd:226:LEU:HA	2:nd:238:ASN:ND2	2.35	0.41
2:nl:98:VAL:O	2:nl:99:TYR:HB3	2.21	0.41
2:no:83:THR:HG23	2:no:205:MET:CG	2.50	0.41
2:np:123:LYS:HD3	2:np:303:LEU:HB2	2.02	0.41
2:np:287:ALA:O	2:np:288:ASP:CG	2.63	0.41
2:nq:77:ASN:ND2	2:nq:209:TYR:O	2.53	0.41
2:nD:9:ILE:O	2:nD:9:ILE:CG2	2.68	0.41
2:nF:221:PHE:HD2	2:nF:224:TRP:HE1	1.69	0.41
1:nH:101:VAL:HG22	1:nH:102:GLU:N	2.35	0.41
1:nJ:57:VAL:O	1:nJ:59:VAL:HG23	2.19	0.41
1:nM:60:ARG:HD2	1:nM:102:GLU:OE1	2.20	0.41
2:nN:224:TRP:CE3	2:nN:226:LEU:HD12	2.55	0.41
2:nP:53:PHE:O	2:nP:255:ARG:NH2	2.43	0.41
2:nT:64:VAL:O	2:nT:64:VAL:HG23	2.19	0.41
2:nT:232:GLU:O	2:nT:236:GLN:HG2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nT:245:ALA:O	2:nT:249:GLN:HG2	2.20	0.41
1:nU:65:ARG:HG2	1:nU:96:ASP:HB2	2.02	0.41
1:nZ:60:ARG:CB	1:nZ:102:GLU:HB3	2.50	0.41
2:ob:98:VAL:O	2:ob:99:TYR:HB3	2.21	0.41
2:oc:8:LEU:HD12	2:oc:8:LEU:N	2.35	0.41
2:od:63:ARG:NH2	2:og:207:ASP:OD1	2.53	0.41
2:og:144:TYR:HB3	2:og:145:PRO:HD3	2.01	0.41
1:ol:99:LEU:HD22	1:ol:60:ARG:HG2	2.01	0.41
1:on:100:LYS:HB3	2:pY:197:LYS:HZ2	1.85	0.41
1:oo:60:ARG:HD2	1:oo:102:GLU:OE1	2.20	0.41
2:oq:82:SER:HB2	2:oq:206:ALA:H	1.85	0.41
2:or:59:TRP:NE1	2:or:63:ARG:HG3	2.35	0.41
2:os:83:THR:HG23	2:os:205:MET:CG	2.50	0.41
1:ow:65:ARG:HG2	1:ow:96:ASP:HB2	2.01	0.41
1:oy:63:VAL:HG22	1:oy:75:LYS:N	2.35	0.41
1:oz:57:VAL:O	1:oz:59:VAL:HG23	2.19	0.41
2:oD:224:TRP:CE3	2:oD:226:LEU:HD12	2.55	0.41
2:oG:83:THR:HG23	2:oG:205:MET:CG	2.51	0.41
2:oH:182:LEU:HG	2:oH:182:LEU:O	2.20	0.41
2:oT:53:PHE:O	2:oT:255:ARG:NH2	2.43	0.41
2:oV:123:LYS:HD3	2:oV:303:LEU:HB2	2.02	0.41
2:oV:144:TYR:CG	2:oV:145:PRO:HD2	2.55	0.41
2:oX:228:ALA:HB3	2:oX:273:LYS:HE3	2.02	0.41
2:oX:229:MET:O	2:oX:285:ASN:ND2	2.52	0.41
2:oX:245:ALA:O	2:oX:249:GLN:HG2	2.20	0.41
2:pg:191:SER:CB	2:pl:191:SER:HB3	2.50	0.41
2:pg:201:GLU:O	2:pg:202:GLN:C	2.62	0.41
2:pg:213:VAL:HG12	2:pg:214:ARG:O	2.20	0.41
2:ph:59:TRP:NE1	2:ph:63:ARG:HG3	2.35	0.41
2:ph:208:GLU:OE1	2:ph:210:ARG:NE	2.53	0.41
2:pl:64:VAL:O	2:pl:64:VAL:HG23	2.19	0.41
2:pl:122:LEU:C	2:pl:122:LEU:HD23	2.45	0.41
2:px:9:ILE:O	2:px:9:ILE:CG2	2.68	0.41
2:pz:243:TYR:CD1	2:pz:294:LEU:HD21	2.56	0.41
1:pF:63:VAL:HG13	1:pF:74:ASP:HB3	1.99	0.41
2:pJ:63:ARG:NH2	2:pM:207:ASP:OD1	2.53	0.41
1:pO:65:ARG:HG2	1:pO:96:ASP:HB2	2.02	0.41
2:pW:191:SER:CB	2:qb:191:SER:HB3	2.50	0.41
2:pZ:107:GLY:CA	2:pZ:184:TYR:CZ	2.97	0.41
2:qa:233:GLU:OE1	2:qa:234:LEU:HD22	2.20	0.41
3:qi:68:ALA:HA	4:qo:8:TYR:CE2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:qk:79:ASN:O	4:qk:83:THR:HG22	2.21	0.41
4:ql:79:ASN:O	4:ql:83:THR:HG22	2.20	0.41
4:qn:18:ILE:N	4:qn:184:THR:O	2.43	0.41
6:qA:8:ASP:HB3	6:qC:39:ARG:NH2	2.35	0.41
6:qM:133:ASP:O	6:qM:134:TRP:HB2	2.19	0.41
1:aa:64:GLU:OE1	1:aa:66:ARG:NH2	2.53	0.41
1:aa:90:LEU:HB3	2:np:4:ILE:HG23	2.02	0.41
2:ai:79:LEU:HG	2:ak:59:TRP:CD1	2.56	0.41
2:ai:197:LYS:CE	1:nh:99:LEU:HA	2.48	0.41
2:ai:280:VAL:HG22	2:ai:282:ARG:H	1.85	0.41
2:aj:62:GLN:HG2	1:ng:103:ARG:H	1.85	0.41
2:ak:182:LEU:HG	2:ak:182:LEU:O	2.21	0.41
2:ak:187:ARG:O	2:ak:187:ARG:CG	2.68	0.41
2:am:221:PHE:HD2	2:am:224:TRP:HE1	1.69	0.41
2:am:243:TYR:CD1	2:am:294:LEU:HD21	2.56	0.41
1:an:59:VAL:HG12	1:an:61:ALA:N	2.28	0.41
1:as:60:ARG:CB	1:as:102:GLU:HB3	2.50	0.41
2:av:197:LYS:CE	1:hO:99:LEU:HA	2.48	0.41
2:az:95:ASN:ND2	5:qJ:44:LYS:HD3	2.34	0.41
2:aH:182:LEU:H	2:aH:182:LEU:HD23	1.84	0.41
2:aJ:59:TRP:NE1	2:aJ:63:ARG:HG3	2.35	0.41
2:aJ:63:ARG:NH2	2:aM:207:ASP:OD1	2.53	0.41
2:aK:79:LEU:HD11	2:aN:59:TRP:HA	2.02	0.41
2:aK:83:THR:HG23	2:aK:205:MET:CG	2.50	0.41
2:aL:228:ALA:O	2:aL:284:ALA:HB2	2.20	0.41
2:aL:287:ALA:O	2:aL:288:ASP:CG	2.63	0.41
2:aN:107:GLY:HA3	2:aN:184:TYR:OH	2.19	0.41
1:aQ:103:ARG:H	2:jn:62:GLN:HG2	1.85	0.41
2:aW:63:ARG:HD2	2:iJ:205:MET:CE	2.49	0.41
2:bb:107:GLY:HA3	2:bb:184:TYR:OH	2.19	0.41
2:bb:226:LEU:HA	2:bb:238:ASN:ND2	2.35	0.41
1:be:58:PHE:HB3	1:be:101:VAL:HG21	2.03	0.41
2:bl:59:TRP:NE1	2:bl:63:ARG:HG3	2.35	0.41
2:bm:83:THR:HG23	2:bm:205:MET:CG	2.51	0.41
2:bn:4:ILE:HG23	1:ki:90:LEU:HB3	2.02	0.41
2:bo:179:LEU:HD22	2:bo:209:TYR:HD2	1.86	0.41
1:bq:58:PHE:HB3	1:bq:101:VAL:HG13	2.02	0.41
1:bs:58:PHE:HB3	1:bs:101:VAL:HG21	2.03	0.41
1:bw:57:VAL:CG1	1:bw:59:VAL:HG13	2.50	0.41
2:bx:98:VAL:O	2:bx:99:TYR:HB3	2.21	0.41
2:by:42:THR:HG22	2:by:43:ALA:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bz:59:TRP:NE1	2:bz:63:ARG:HG3	2.35	0.41
2:bA:230:SER:O	2:bA:231:THR:HG22	2.20	0.41
2:bB:144:TYR:CG	2:bB:145:PRO:HD2	2.55	0.41
2:bB:182:LEU:HG	2:bB:182:LEU:O	2.21	0.41
2:bB:228:ALA:O	2:bB:284:ALA:HB2	2.20	0.41
2:bD:62:GLN:HB3	1:bS:103:ARG:O	2.20	0.41
2:bL:182:LEU:H	2:bL:182:LEU:HD23	1.85	0.41
2:bO:123:LYS:HD3	2:bO:303:LEU:HB2	2.02	0.41
2:bP:5:THR:HG22	1:IR:87:ASP:HB3	2.02	0.41
2:bQ:64:VAL:O	2:bQ:64:VAL:HG23	2.19	0.41
2:bQ:243:TYR:CD1	2:bQ:294:LEU:HD21	2.56	0.41
2:bQ:246:MET:HA	2:bQ:249:GLN:HG2	2.00	0.41
1:bX:57:VAL:CG1	1:bX:59:VAL:HG13	2.50	0.41
2:bZ:8:LEU:HD12	2:bZ:8:LEU:N	2.35	0.41
2:cc:144:TYR:CG	2:cc:145:PRO:HD2	2.55	0.41
2:cd:9:ILE:HD11	2:hU:70:ALA:HB2	2.01	0.41
2:ce:122:LEU:HD23	2:ce:122:LEU:C	2.45	0.41
1:ci:62:THR:HG21	1:ci:97:PRO:HB3	2.00	0.41
1:ck:86:SER:O	1:ck:90:LEU:N	2.51	0.41
2:cm:98:VAL:O	2:cm:99:TYR:HB3	2.20	0.41
2:cs:245:ALA:O	2:cs:249:GLN:HG2	2.20	0.41
1:cz:60:ARG:HD2	1:cz:102:GLU:OE1	2.20	0.41
2:cA:182:LEU:H	2:cA:182:LEU:HD23	1.85	0.41
2:cA:229:MET:HB3	2:cA:234:LEU:HD22	2.01	0.41
2:cB:21:GLN:O	2:cB:22:ASP:OD1	2.37	0.41
2:cB:201:GLU:O	2:cB:202:GLN:C	2.62	0.41
2:cF:233:GLU:OE1	2:cF:234:LEU:HD22	2.20	0.41
2:cF:248:ASN:OD1	2:cF:248:ASN:O	2.38	0.41
2:cU:62:GLN:HB3	1:iC:103:ARG:O	2.20	0.41
1:cV:63:VAL:HG23	1:cV:78:GLN:H	1.84	0.41
1:da:60:ARG:CB	1:da:102:GLU:HB3	2.50	0.41
1:da:86:SER:O	1:da:90:LEU:N	2.51	0.41
1:db:60:ARG:HD2	1:db:102:GLU:OE1	2.20	0.41
2:dh:281:GLN:O	2:dh:289:ASN:N	2.53	0.41
2:di:243:TYR:CD1	2:di:294:LEU:HD21	2.56	0.41
2:dr:42:THR:HG22	2:dr:43:ALA:H	1.85	0.41
2:ds:63:ARG:NH2	2:dv:207:ASP:OD1	2.53	0.41
2:dv:5:THR:HG22	1:km:87:ASP:HB3	2.02	0.41
2:dv:89:THR:N	2:dv:200:ASP:OD2	2.36	0.41
2:dw:107:GLY:HA3	2:dw:184:TYR:OH	2.19	0.41
2:dw:182:LEU:O	2:dw:182:LEU:CD1	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dw:221:PHE:HD2	2:dw:224:TRP:HE1	1.69	0.41
2:dw:226:LEU:HA	2:dw:238:ASN:ND2	2.35	0.41
1:dB:103:ARG:HD2	2:eW:61:GLY:CA	2.40	0.41
2:dG:63:ARG:HE	2:dJ:205:MET:CE	2.30	0.41
2:dJ:248:ASN:OD1	2:dJ:248:ASN:O	2.38	0.41
2:dK:182:LEU:O	2:dK:182:LEU:CD1	2.67	0.41
2:dT:42:THR:HG22	2:dT:43:ALA:H	1.85	0.41
2:dW:9:ILE:O	2:dW:9:ILE:CG2	2.68	0.41
2:dX:179:LEU:HD22	2:dX:209:TYR:HD2	1.86	0.41
2:eg:225:GLN:O	2:eg:226:LEU:C	2.64	0.41
2:ei:13:LYS:HB3	2:ek:43:ALA:HB3	2.01	0.41
2:ek:4:ILE:HG23	1:nV:90:LEU:HB3	2.02	0.41
2:ek:123:LYS:HD3	2:ek:303:LEU:HB2	2.02	0.41
2:el:9:ILE:HD11	2:mj:70:ALA:HB2	2.01	0.41
2:el:233:GLU:OE1	2:el:234:LEU:HD22	2.20	0.41
2:em:249:GLN:HB3	2:em:257:LEU:HD12	2.03	0.41
1:eo:90:LEU:HB3	2:nR:4:ILE:HG23	2.02	0.41
1:ep:103:ARG:H	2:pi:62:GLN:HG2	1.85	0.41
1:es:87:ASP:HB3	2:og:5:THR:HG22	2.02	0.41
2:ev:198:GLU:CD	1:gB:102:GLU:HA	2.44	0.41
2:ex:83:THR:HG23	2:ex:205:MET:CG	2.51	0.41
2:ex:234:LEU:HG	2:ex:239:PHE:HB2	2.02	0.41
2:ez:144:TYR:HB3	2:ez:145:PRO:HD3	2.01	0.41
1:eC:101:VAL:HG22	1:eC:102:GLU:N	2.35	0.41
1:eG:60:ARG:CB	1:eG:102:GLU:HB3	2.50	0.41
2:eJ:82:SER:HB2	2:eJ:206:ALA:H	1.85	0.41
2:eK:79:LEU:HG	2:eM:59:TRP:CD1	2.56	0.41
2:eL:66:LYS:HB2	2:eM:84:VAL:HG12	2.02	0.41
2:eM:62:GLN:NE2	2:gV:197:LYS:NZ	2.68	0.41
2:eO:9:ILE:HD11	2:gp:98:VAL:HG21	2.02	0.41
1:eP:94:GLU:CG	2:gp:2:ALA:N	2.83	0.41
2:eW:303:LEU:H	2:eW:303:LEU:HD23	1.85	0.41
2:eX:42:THR:HG22	2:eX:43:ALA:H	1.85	0.41
2:eX:191:SER:CB	2:fc:191:SER:HB3	2.50	0.41
2:eY:59:TRP:NE1	2:eY:63:ARG:HG3	2.35	0.41
2:fa:287:ALA:O	2:fa:288:ASP:CG	2.63	0.41
2:fb:77:ASN:ND2	2:fb:209:TYR:O	2.53	0.41
2:fb:233:GLU:OE1	2:fb:234:LEU:HD22	2.20	0.41
2:fk:225:GLN:O	2:fk:226:LEU:C	2.64	0.41
2:fl:2:ALA:N	1:nG:94:GLU:CG	2.83	0.41
2:fn:230:SER:O	2:fn:231:THR:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fo:4:ILE:HG23	1:ia:90:LEU:HB3	2.02	0.41
2:fp:248:ASN:OD1	2:fp:248:ASN:O	2.38	0.41
2:fA:24:LEU:HD11	2:fC:257:LEU:HD12	2.00	0.41
2:fB:83:THR:HG23	2:fB:205:MET:CG	2.51	0.41
2:fC:9:ILE:O	2:fC:9:ILE:CG2	2.68	0.41
2:fC:187:ARG:O	2:fC:187:ARG:CG	2.68	0.41
2:fD:248:ASN:OD1	2:fD:248:ASN:O	2.38	0.41
2:fE:9:ILE:HD11	2:nm:98:VAL:HG21	2.02	0.41
2:fE:64:VAL:O	2:fE:64:VAL:HG23	2.20	0.41
2:fE:185:GLN:O	2:fE:205:MET:N	2.43	0.41
1:fG:90:LEU:HB3	2:hi:4:ILE:HG23	2.02	0.41
1:fG:103:ARG:O	2:hk:62:GLN:HB3	2.20	0.41
1:fH:103:ARG:H	2:my:62:GLN:HG2	1.85	0.41
2:fM:193:THR:HG22	2:lU:193:THR:HG23	1.99	0.41
2:fP:83:THR:HG23	2:fP:205:MET:CG	2.51	0.41
2:fP:148:ASP:OD1	2:fP:149:GLY:N	2.53	0.41
2:fP:230:SER:O	2:fP:231:THR:HG22	2.20	0.41
2:fQ:30:THR:HG21	2:fQ:298:LEU:HD13	2.01	0.41
2:fQ:287:ALA:O	2:fQ:288:ASP:CG	2.63	0.41
1:fT:58:PHE:HB3	1:fT:101:VAL:HG13	2.02	0.41
1:fW:103:ARG:NE	2:ii:61:GLY:CA	2.83	0.41
2:gg:226:LEU:HA	2:gg:238:ASN:ND2	2.35	0.41
2:gg:245:ALA:O	2:gg:249:GLN:HG2	2.20	0.41
1:gh:65:ARG:HG2	1:gh:96:ASP:HB2	2.02	0.41
2:gq:61:GLY:HA2	1:hO:103:ARG:NE	2.35	0.41
2:gt:77:ASN:ND2	2:gt:209:TYR:O	2.53	0.41
2:gu:30:THR:HG23	2:gu:298:LEU:HD13	2.02	0.41
2:gD:8:LEU:HD12	2:gD:8:LEU:N	2.35	0.41
2:gD:82:SER:HB2	2:gD:206:ALA:H	1.85	0.41
2:gD:192:PHE:HZ	2:gI:196:THR:HG21	1.83	0.41
2:gG:228:ALA:O	2:gG:284:ALA:HB2	2.20	0.41
2:gH:144:TYR:HB3	2:gH:145:PRO:HD3	2.01	0.41
2:gS:61:GLY:CA	1:ic:103:ARG:NE	2.83	0.41
2:gU:187:ARG:O	2:gU:187:ARG:CG	2.68	0.41
2:gU:287:ALA:O	2:gU:288:ASP:CG	2.63	0.41
2:gW:9:ILE:HD11	2:ih:98:VAL:HG21	2.02	0.41
2:gW:249:GLN:HB3	2:gW:257:LEU:HD12	2.03	0.41
1:gX:94:GLU:CG	2:ih:2:ALA:N	2.83	0.41
1:gY:101:VAL:HG22	1:gY:102:GLU:N	2.35	0.41
2:hg:208:GLU:OE1	2:hg:210:ARG:NE	2.53	0.41
2:hh:62:GLN:HG2	1:mq:103:ARG:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hp:102:GLU:HG2	2:ko:62:GLN:OE1	2.02	0.41
1:hp:103:ARG:HD2	2:ko:61:GLY:CA	2.40	0.41
2:hs:303:LEU:H	2:hs:303:LEU:HD23	1.85	0.41
2:hv:228:ALA:O	2:hv:284:ALA:HB2	2.20	0.41
2:hw:248:ASN:OD1	2:hw:248:ASN:O	2.38	0.41
2:hx:30:THR:HG23	2:hx:298:LEU:HD13	2.02	0.41
2:hx:236:GLN:CB	2:hx:240:GLU:HB3	2.49	0.41
1:hE:60:ARG:HD2	1:hE:102:GLU:OE1	2.20	0.41
1:hL:58:PHE:HB3	1:hL:101:VAL:HG13	2.02	0.41
1:hN:58:PHE:HB3	1:hN:101:VAL:HG21	2.03	0.41
1:hO:57:VAL:O	1:hO:59:VAL:HG23	2.19	0.41
2:hS:224:TRP:CE3	2:hS:226:LEU:HD12	2.55	0.41
2:hT:8:LEU:HD12	2:hT:8:LEU:N	2.35	0.41
2:hT:219:VAL:O	2:hT:219:VAL:CG1	2.66	0.41
2:hV:83:THR:HG23	2:hV:205:MET:CG	2.50	0.41
2:hY:30:THR:HG23	2:hY:298:LEU:HD13	2.02	0.41
2:hY:221:PHE:HD2	2:hY:224:TRP:HE1	1.69	0.41
1:hZ:57:VAL:O	1:hZ:79:GLY:O	2.38	0.41
2:ig:224:TRP:CE3	2:ig:226:LEU:HD12	2.55	0.41
2:ih:42:THR:HG22	2:ih:43:ALA:H	1.85	0.41
1:io:90:LEU:HB3	2:pZ:4:ILE:HG23	2.02	0.41
1:iq:99:LEU:HD22	1:ll:60:ARG:HG2	2.01	0.41
2:iv:141:HIS:HB3	2:iv:143:VAL:HG23	2.01	0.41
2:ix:148:ASP:OD1	2:ix:149:GLY:N	2.53	0.41
2:iy:144:TYR:CG	2:iy:145:PRO:HD2	2.55	0.41
2:iz:5:THR:HG22	1:on:87:ASP:HB3	2.02	0.41
2:iz:179:LEU:HD22	2:iz:209:TYR:HD2	1.86	0.41
2:iA:9:ILE:HD11	2:jN:98:VAL:HG21	2.02	0.41
2:iA:122:LEU:HD23	2:iA:122:LEU:C	2.45	0.41
2:iA:245:ALA:O	2:iA:249:GLN:HG2	2.20	0.41
1:iC:60:ARG:O	1:iC:61:ALA:HB3	2.21	0.41
2:iI:225:GLN:O	2:iI:226:LEU:C	2.64	0.41
2:iJ:8:LEU:HD12	2:iJ:8:LEU:N	2.35	0.41
2:iO:144:TYR:HH	2:iO:254:GLY:H	1.67	0.41
2:iO:226:LEU:HA	2:iO:238:ASN:ND2	2.36	0.41
2:iO:228:ALA:HB3	2:iO:273:LYS:HE3	2.02	0.41
2:iO:232:GLU:O	2:iO:236:GLN:HG2	2.19	0.41
1:iT:96:ASP:OD1	2:jb:64:VAL:HG13	2.19	0.41
2:iW:98:VAL:O	2:iW:99:TYR:HB3	2.21	0.41
2:iY:79:LEU:HG	2:ja:59:TRP:CD1	2.56	0.41
2:iY:280:VAL:HG22	2:iY:282:ARG:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iZ:62:GLN:HG2	1:kj:103:ARG:H	1.85	0.41
2:ja:88:ARG:O	2:ja:91:ILE:HG12	2.19	0.41
2:ja:144:TYR:CG	2:ja:145:PRO:HD2	2.55	0.41
2:ja:182:LEU:HG	2:ja:182:LEU:O	2.21	0.41
2:jk:182:LEU:HD23	2:jk:182:LEU:H	1.85	0.41
2:jk:225:GLN:O	2:jk:226:LEU:C	2.64	0.41
2:jk:229:MET:HB3	2:jk:234:LEU:HD22	2.01	0.41
2:jk:303:LEU:HD23	2:jk:303:LEU:H	1.85	0.41
2:jl:213:VAL:HG12	2:jl:214:ARG:O	2.20	0.41
2:jn:148:ASP:OD1	2:jn:149:GLY:N	2.53	0.41
1:js:103:ARG:O	2:nd:62:GLN:HB3	2.20	0.41
1:jt:58:PHE:HB3	1:jt:101:VAL:HG21	2.03	0.41
1:jw:86:SER:O	1:jw:90:LEU:N	2.51	0.41
1:jx:60:ARG:HD2	1:jx:102:GLU:OE1	2.20	0.41
1:jG:64:GLU:OE1	1:jG:66:ARG:NH2	2.53	0.41
2:jN:42:THR:HG22	2:jN:43:ALA:H	1.85	0.41
2:jQ:88:ARG:O	2:jQ:91:ILE:HG12	2.19	0.41
1:jT:65:ARG:HG2	1:jT:96:ASP:HB2	2.01	0.41
1:jU:64:GLU:OE1	1:jU:66:ARG:NH2	2.53	0.41
2:ka:303:LEU:H	2:ka:303:LEU:HD23	1.86	0.41
2:ke:4:ILE:HG23	1:mR:90:LEU:HB3	2.02	0.41
2:ke:62:GLN:HE21	2:qa:197:LYS:HZ1	1.65	0.41
2:ke:144:TYR:CG	2:ke:145:PRO:HD2	2.55	0.41
2:kf:144:TYR:HB3	2:kf:145:PRO:HD3	2.01	0.41
2:kf:248:ASN:OD1	2:kf:248:ASN:O	2.38	0.41
2:kg:182:LEU:O	2:kg:182:LEU:CD1	2.67	0.41
1:kn:62:THR:HG21	1:kn:97:PRO:HB3	2.02	0.41
2:ko:303:LEU:H	2:ko:303:LEU:HD23	1.86	0.41
2:kt:264:LEU:HB2	2:kt:295:VAL:HG11	2.02	0.41
1:ku:65:ARG:HG2	1:ku:96:ASP:HB2	2.02	0.41
1:ky:96:ASP:OD1	2:kG:64:VAL:HG13	2.19	0.41
2:kB:98:VAL:O	2:kB:99:TYR:HB3	2.21	0.41
2:kC:8:LEU:HD12	2:kC:8:LEU:N	2.35	0.41
2:kC:102:LEU:HD13	2:kQ:68:MET:SD	2.59	0.41
2:kE:79:LEU:HD11	2:kH:59:TRP:HA	2.02	0.41
2:kE:83:THR:HG23	2:kE:205:MET:CG	2.50	0.41
2:kG:77:ASN:ND2	2:kG:209:TYR:O	2.53	0.41
2:kQ:191:SER:CB	2:kV:191:SER:HB3	2.50	0.41
2:kQ:193:THR:HG23	2:mX:193:THR:HG22	1.99	0.41
2:kT:287:ALA:O	2:kT:288:ASP:CG	2.63	0.41
2:kU:144:TYR:HB3	2:kU:145:PRO:HD3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kU:233:GLU:OE1	2:kU:234:LEU:HD22	2.20	0.41
1:kW:100:LYS:HD3	1:mW:100:LYS:HZ1	1.83	0.41
1:kX:60:ARG:HG2	1:oz:99:LEU:HD22	2.01	0.41
1:kY:103:ARG:H	2:lI:62:GLN:HG2	1.85	0.41
1:lc:60:ARG:HD2	1:lc:102:GLU:OE1	2.20	0.41
1:lc:62:THR:HG21	1:lc:97:PRO:HB3	2.03	0.41
2:lj:9:ILE:HD11	2:mK:98:VAL:HG21	2.02	0.41
2:lj:232:GLU:O	2:lj:236:GLN:HG2	2.19	0.41
1:lp:60:ARG:CB	1:lp:102:GLU:HB3	2.50	0.41
2:ls:8:LEU:HD12	2:ls:8:LEU:N	2.35	0.41
2:ls:201:GLU:O	2:ls:202:GLN:C	2.62	0.41
2:lu:234:LEU:HG	2:lu:239:PHE:HB2	2.02	0.41
1:lD:100:LYS:HB3	2:na:197:LYS:HZ2	1.85	0.41
2:lH:13:LYS:HB3	2:lJ:43:ALA:HB3	2.02	0.41
2:lJ:228:ALA:O	2:lJ:284:ALA:HB2	2.20	0.41
2:lU:8:LEU:HD12	2:lU:8:LEU:N	2.35	0.41
2:lU:82:SER:HB2	2:lU:206:ALA:H	1.85	0.41
2:lU:278:VAL:O	2:lU:278:VAL:HG23	2.19	0.41
2:lY:42:THR:O	2:lY:179:LEU:HD11	2.21	0.41
2:lZ:107:GLY:HA3	2:lZ:184:TYR:OH	2.19	0.41
2:lZ:245:ALA:O	2:lZ:249:GLN:HG2	2.20	0.41
1:mc:95:SER:OG	1:mc:96:ASP:N	2.52	0.41
2:mh:225:GLN:O	2:mh:226:LEU:C	2.64	0.41
2:mi:98:VAL:HG21	2:mB:9:ILE:HD11	2.02	0.41
2:mk:234:LEU:HG	2:mk:239:PHE:HB2	2.02	0.41
2:mn:229:MET:O	2:mn:285:ASN:ND2	2.52	0.41
1:mu:60:ARG:HD2	1:mu:102:GLU:OE1	2.20	0.41
2:mv:229:MET:HB3	2:mv:234:LEU:HD22	2.01	0.41
2:mw:42:THR:HG22	2:mw:43:ALA:H	1.85	0.41
2:mx:59:TRP:NE1	2:mx:63:ARG:HG3	2.35	0.41
2:mN:287:ALA:O	2:mN:288:ASP:CG	2.64	0.41
2:mO:281:GLN:O	2:mO:289:ASN:N	2.53	0.41
2:mP:62:GLN:HB3	1:nf:103:ARG:O	2.20	0.41
1:mR:64:GLU:OE1	1:mR:66:ARG:NH2	2.53	0.41
2:mZ:280:VAL:HG22	2:mZ:282:ARG:H	1.85	0.41
2:nc:248:ASN:OD1	2:nc:248:ASN:O	2.38	0.41
1:ng:63:VAL:HG22	1:ng:75:LYS:N	2.35	0.41
2:nn:63:ARG:NH2	2:nq:207:ASP:OD1	2.53	0.41
2:nn:208:GLU:OE1	2:nn:210:ARG:NE	2.53	0.41
2:nr:249:GLN:HB3	2:nr:257:LEU:HD12	2.03	0.41
2:nz:303:LEU:H	2:nz:303:LEU:HD23	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nD:187:ARG:O	2:nD:187:ARG:CG	2.68	0.41
2:nF:64:VAL:O	2:nF:64:VAL:HG23	2.19	0.41
2:nF:226:LEU:HA	2:nF:238:ASN:ND2	2.35	0.41
1:nH:64:GLU:OE1	1:nH:66:ARG:NH2	2.53	0.41
1:nK:82:ASP:OD1	1:nK:83:GLY:N	2.52	0.41
2:nO:8:LEU:HD12	2:nO:8:LEU:N	2.35	0.41
2:nO:191:SER:CB	2:nT:191:SER:HB3	2.50	0.41
2:nP:24:LEU:HD11	2:nR:257:LEU:HD12	2.00	0.41
2:nR:88:ARG:O	2:nR:91:ILE:HG12	2.19	0.41
2:nS:281:GLN:O	2:nS:289:ASN:N	2.53	0.41
2:nT:182:LEU:O	2:nT:182:LEU:CD1	2.67	0.41
1:nU:57:VAL:O	1:nU:79:GLY:O	2.38	0.41
2:oc:213:VAL:HG12	2:oc:214:ARG:O	2.20	0.41
2:of:187:ARG:O	2:of:187:ARG:CG	2.68	0.41
2:oq:213:VAL:HG12	2:oq:214:ARG:O	2.20	0.41
2:or:63:ARG:NH2	2:ou:207:ASP:OD1	2.53	0.41
2:ov:215:SER:OG	2:ov:216:ARG:N	2.52	0.41
1:oz:86:SER:O	1:oz:90:LEU:N	2.50	0.41
2:oD:229:MET:HB3	2:oD:234:LEU:HD22	2.01	0.41
2:oD:303:LEU:H	2:oD:303:LEU:HD23	1.86	0.41
2:oF:280:VAL:HG22	2:oF:282:ARG:H	1.85	0.41
2:oH:144:TYR:CG	2:oH:145:PRO:HD2	2.55	0.41
2:oJ:215:SER:OG	2:oJ:216:ARG:N	2.52	0.41
1:oM:95:SER:OG	1:oM:96:ASP:N	2.52	0.41
2:oR:224:TRP:CE3	2:oR:226:LEU:HD12	2.55	0.41
2:oV:287:ALA:O	2:oV:288:ASP:CG	2.63	0.41
2:oW:144:TYR:HB3	2:oW:145:PRO:HD3	2.01	0.41
2:oX:122:LEU:HD23	2:oX:122:LEU:C	2.45	0.41
2:pf:98:VAL:O	2:pf:99:TYR:HB3	2.21	0.41
2:pl:273:LYS:HA	2:pl:273:LYS:HD2	1.93	0.41
1:pm:65:ARG:HG2	1:pm:96:ASP:HB2	2.02	0.41
1:pp:103:ARG:NE	2:pJ:61:GLY:CA	2.83	0.41
1:pr:60:ARG:CB	1:pr:102:GLU:HB3	2.50	0.41
1:pr:86:SER:O	1:pr:90:LEU:N	2.51	0.41
2:pt:98:VAL:O	2:pt:99:TYR:HB3	2.21	0.41
2:pV:59:TRP:NE1	2:pV:63:ARG:HG3	2.35	0.41
2:pw:79:LEU:HD11	2:pz:59:TRP:HA	2.02	0.41
2:py:179:LEU:HD22	2:py:209:TYR:HD2	1.86	0.41
1:pC:58:PHE:HB3	1:pC:101:VAL:HG21	2.03	0.41
1:pF:60:ARG:CB	1:pF:102:GLU:HB3	2.50	0.41
1:pG:62:THR:HG21	1:pG:97:PRO:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pN:243:TYR:CD1	2:pN:294:LEU:HD21	2.56	0.41
1:pQ:58:PHE:HB3	1:pQ:101:VAL:HG21	2.03	0.41
1:pU:60:ARG:HD2	1:pU:102:GLU:OE1	2.20	0.41
2:qa:42:THR:O	2:qa:179:LEU:HD11	2.21	0.41
3:qh:55:GLU:OE1	4:qj:223:ASN:ND2	2.43	0.41
3:qi:31:VAL:HG13	3:qi:48:TYR:CD1	2.55	0.41
3:qi:66:GLN:H	4:qo:10:GLN:CG	2.02	0.41
4:qj:64:LYS:O	4:qk:55:ALA:CB	2.68	0.41
4:qo:85:TYR:CE1	4:qo:212:PRO:HD3	2.55	0.41
6:qq:133:ASP:O	6:qq:134:TRP:HB2	2.19	0.41
6:qE:17:LYS:HD2	6:qG:81:ILE:HG21	2.03	0.41
5:qH:393:GLU:O	5:qJ:408:PRO:HG3	2.20	0.41
5:qJ:304:THR:OG1	5:qJ:326:VAL:HG21	2.20	0.41
1:ac:99:LEU:HA	2:mL:197:LYS:CE	2.48	0.41
1:ae:100:LYS:HB3	2:oe:197:LYS:HZ2	1.85	0.41
1:af:60:ARG:HD2	1:af:102:GLU:OE1	2.20	0.41
1:af:100:LYS:HZ3	1:oi:100:LYS:HD3	1.79	0.41
2:ah:44:SER:OG	2:ah:75:ILE:O	2.21	0.41
2:ah:191:SER:CB	2:am:191:SER:HB3	2.50	0.41
2:ai:63:ARG:NH2	2:al:207:ASP:OD1	2.53	0.41
2:ai:208:GLU:OE1	2:ai:210:ARG:NE	2.53	0.41
2:aj:230:SER:O	2:aj:231:THR:HG22	2.20	0.41
2:ak:228:ALA:O	2:ak:284:ALA:HB2	2.20	0.41
1:aB:103:ARG:O	2:kV:62:GLN:HB3	2.20	0.41
1:aC:58:PHE:HB3	1:aC:101:VAL:HG21	2.03	0.41
1:aC:63:VAL:HG22	1:aC:75:LYS:N	2.35	0.41
1:aF:86:SER:O	1:aF:90:LEU:N	2.51	0.41
2:aH:194:SER:O	2:aH:199:ASP:O	2.39	0.41
2:aM:5:THR:HG22	1:mV:87:ASP:HB3	2.02	0.41
2:aM:233:GLU:OE1	2:aM:234:LEU:HD22	2.20	0.41
2:aN:189:LYS:HZ3	2:aN:192:PHE:HE1	1.66	0.41
2:aZ:287:ALA:O	2:aZ:288:ASP:CG	2.64	0.41
2:ba:197:LYS:NZ	2:px:62:GLN:NE2	2.68	0.41
2:bl:79:LEU:HG	2:bn:59:TRP:CD1	2.56	0.41
2:bn:161:ALA:N	2:bn:162:PRO:CD	2.84	0.41
1:br:64:GLU:OE1	1:br:66:ARG:NH2	2.53	0.41
1:br:99:LEU:CG	1:dC:102:GLU:CD	2.93	0.41
1:br:103:ARG:O	2:fc:62:GLN:HB3	2.20	0.41
1:bs:99:LEU:CA	1:eR:102:GLU:CD	2.87	0.41
2:by:82:SER:HB2	2:by:206:ALA:H	1.85	0.41
2:bA:197:LYS:HZ2	1:hQ:100:LYS:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bB:287:ALA:O	2:bB:288:ASP:CG	2.64	0.41
2:bC:77:ASN:ND2	2:bC:209:TYR:O	2.53	0.41
1:bF:98:LEU:O	2:bO:62:GLN:NE2	2.54	0.41
1:bJ:60:ARG:CB	1:bJ:102:GLU:HB3	2.50	0.41
2:bM:79:LEU:HG	2:bO:59:TRP:CD1	2.56	0.41
2:bN:148:ASP:OD1	2:bN:149:GLY:N	2.53	0.41
2:bO:187:ARG:O	2:bO:187:ARG:CG	2.68	0.41
2:bQ:95:ASN:ND2	5:qp:47:ARG:N	2.67	0.41
2:bQ:226:LEU:HA	2:bQ:238:ASN:ND2	2.35	0.41
1:bR:57:VAL:O	1:bR:79:GLY:O	2.38	0.41
2:ca:13:LYS:HB3	2:cc:43:ALA:HB3	2.02	0.41
2:cb:144:TYR:HB3	2:cb:145:PRO:CD	2.50	0.41
2:cb:234:LEU:HG	2:cb:239:PHE:HB2	2.02	0.41
2:ce:62:GLN:HB3	1:eQ:103:ARG:O	2.20	0.41
2:ce:236:GLN:CB	2:ce:240:GLU:HB3	2.49	0.41
1:cg:64:GLU:OE1	1:cg:66:ARG:NH2	2.53	0.41
1:ci:103:ARG:NE	2:pv:61:GLY:CA	2.83	0.41
1:ck:87:ASP:HB3	2:lw:5:THR:HG22	2.02	0.41
2:cm:229:MET:HB3	2:cm:234:LEU:HD22	2.01	0.41
2:co:13:LYS:HB3	2:cq:43:ALA:HB3	2.01	0.41
2:cr:248:ASN:OD1	2:cr:248:ASN:O	2.38	0.41
2:cs:226:LEU:HA	2:cs:238:ASN:ND2	2.35	0.41
2:cs:228:ALA:HB3	2:cs:273:LYS:HE3	2.02	0.41
1:cw:103:ARG:NE	2:cQ:61:GLY:CA	2.83	0.41
2:cB:82:SER:HB2	2:cB:206:ALA:H	1.85	0.41
2:cC:63:ARG:NH2	2:cF:207:ASP:OD1	2.53	0.41
2:cC:79:LEU:HG	2:cE:59:TRP:CD1	2.56	0.41
2:cC:235:ASN:HD21	2:cC:290:PRO:HD2	1.86	0.41
2:cE:30:THR:HG21	2:cE:298:LEU:HD13	2.01	0.41
2:cG:106:MET:HE3	2:cG:206:ALA:HB3	2.02	0.41
2:cG:226:LEU:HA	2:cG:238:ASN:ND2	2.35	0.41
1:cH:57:VAL:O	1:cH:79:GLY:O	2.38	0.41
1:cN:57:VAL:CG1	1:cN:59:VAL:HG13	2.50	0.41
2:cS:287:ALA:O	2:cS:288:ASP:CG	2.64	0.41
2:cT:248:ASN:OD1	2:cT:248:ASN:O	2.37	0.41
2:cU:245:ALA:O	2:cU:249:GLN:HG2	2.20	0.41
2:dd:8:LEU:HD12	2:dd:8:LEU:N	2.35	0.41
2:dd:82:SER:HB2	2:dd:206:ALA:H	1.85	0.41
2:de:59:TRP:NE1	2:de:63:ARG:HG3	2.35	0.41
2:dg:182:LEU:HG	2:dg:182:LEU:O	2.21	0.41
2:dg:280:VAL:O	2:dg:289:ASN:ND2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:di:226:LEU:HD21	2:di:273:LYS:HB3	2.03	0.41
2:di:299:ASP:O	2:di:300:THR:OG1	2.36	0.41
1:dn:82:ASP:OD1	1:dn:83:GLY:N	2.52	0.41
1:dp:60:ARG:HD2	1:dp:102:GLU:OE1	2.20	0.41
2:du:161:ALA:N	2:du:162:PRO:CD	2.84	0.41
2:du:182:LEU:HG	2:du:182:LEU:O	2.21	0.41
2:du:228:ALA:O	2:du:284:ALA:HB2	2.20	0.41
2:dv:233:GLU:OE1	2:dv:234:LEU:HD22	2.20	0.41
1:dx:65:ARG:HG2	1:dx:96:ASP:HB2	2.02	0.41
2:dF:191:SER:CB	2:dK:191:SER:HB3	2.50	0.41
2:dH:234:LEU:HG	2:dH:239:PHE:HB2	2.02	0.41
2:dJ:77:ASN:ND2	2:dJ:209:TYR:O	2.53	0.41
2:dK:226:LEU:HA	2:dK:238:ASN:ND2	2.35	0.41
2:dK:249:GLN:HB3	2:dK:257:LEU:HD12	2.03	0.41
1:dM:82:ASP:OD1	1:dM:83:GLY:N	2.51	0.41
1:dQ:100:LYS:HB3	2:oU:197:LYS:HZ2	1.85	0.41
2:dT:82:SER:HB2	2:dT:206:ALA:H	1.85	0.41
2:dU:197:LYS:CE	1:pD:99:LEU:HA	2.48	0.41
2:dW:287:ALA:O	2:dW:288:ASP:CG	2.64	0.41
2:dY:226:LEU:HA	2:dY:238:ASN:ND2	2.35	0.41
1:ec:99:LEU:CB	1:nV:102:GLU:OE1	2.62	0.41
2:eh:42:THR:HG22	2:eh:43:ALA:H	1.85	0.41
2:ei:63:ARG:NH2	2:el:207:ASP:OD1	2.53	0.41
2:ej:90:ASP:O	2:eu:13:LYS:NZ	2.52	0.41
2:ek:9:ILE:O	2:ek:9:ILE:CG2	2.68	0.41
2:ek:287:ALA:O	2:ek:288:ASP:CG	2.63	0.41
2:em:122:LEU:HD23	2:em:122:LEU:C	2.45	0.41
2:em:251:ALA:HB2	2:em:257:LEU:HD21	2.01	0.41
1:eo:98:LEU:O	2:ey:62:GLN:NE2	2.54	0.41
1:es:60:ARG:CB	1:es:102:GLU:HB3	2.50	0.41
2:eu:194:SER:O	2:eu:199:ASP:O	2.39	0.41
2:ew:59:TRP:NE1	2:ew:63:ARG:HG3	2.35	0.41
2:ey:161:ALA:N	2:ey:162:PRO:CD	2.84	0.41
1:eF:82:ASP:OD1	1:eF:83:GLY:N	2.52	0.41
2:eM:88:ARG:O	2:eM:91:ILE:HG12	2.19	0.41
2:eM:161:ALA:N	2:eM:162:PRO:CD	2.84	0.41
2:eM:182:LEU:HG	2:eM:182:LEU:O	2.21	0.41
2:eN:42:THR:O	2:eN:179:LEU:HD11	2.21	0.41
1:eQ:98:LEU:O	2:fa:62:GLN:NE2	2.54	0.41
1:eR:63:VAL:HG22	1:eR:75:LYS:N	2.35	0.41
2:eX:278:VAL:O	2:eX:278:VAL:HG23	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eY:280:VAL:HG22	2:eY:282:ARG:H	1.85	0.41
2:eZ:230:SER:O	2:eZ:231:THR:HG22	2.20	0.41
2:fc:226:LEU:HA	2:fc:238:ASN:ND2	2.35	0.41
2:fc:243:TYR:CD1	2:fc:294:LEU:HD21	2.56	0.41
2:fl:141:HIS:HB3	2:fl:143:VAL:HG23	2.01	0.41
2:fm:208:GLU:OE1	2:fm:210:ARG:NE	2.53	0.41
2:fn:90:ASP:O	2:nz:13:LYS:NZ	2.52	0.41
2:fq:9:ILE:HD11	2:gD:98:VAL:HG21	2.02	0.41
2:fq:106:MET:HE3	2:fq:206:ALA:HB3	2.02	0.41
1:fr:58:PHE:HB3	1:fr:101:VAL:HG13	2.02	0.41
1:ft:63:VAL:HG22	1:ft:75:LYS:N	2.35	0.41
1:fw:100:LYS:HB3	2:no:197:LYS:HZ2	1.85	0.41
2:fA:13:LYS:HB3	2:fC:43:ALA:HB3	2.02	0.41
2:fB:66:LYS:HB2	2:fC:84:VAL:HG12	2.01	0.41
2:fC:123:LYS:HD3	2:fC:303:LEU:HB2	2.02	0.41
2:fD:42:THR:O	2:fD:179:LEU:HD11	2.21	0.41
2:fD:77:ASN:ND2	2:fD:209:TYR:O	2.53	0.41
2:fE:228:ALA:HB3	2:fE:273:LYS:HE3	2.02	0.41
1:fL:60:ARG:HD2	1:fL:102:GLU:OE1	2.20	0.41
2:fM:98:VAL:O	2:fM:99:TYR:HB3	2.21	0.41
2:fN:82:SER:HB2	2:fN:206:ALA:H	1.85	0.41
2:fN:219:VAL:O	2:fN:219:VAL:CG1	2.66	0.41
2:fQ:228:ALA:O	2:fQ:284:ALA:HB2	2.20	0.41
2:fR:144:TYR:HB3	2:fR:145:PRO:HD3	2.01	0.41
2:fS:122:LEU:HD23	2:fS:122:LEU:C	2.45	0.41
2:fS:221:PHE:HD2	2:fS:224:TRP:HE1	1.69	0.41
2:fS:249:GLN:HB3	2:fS:257:LEU:HD12	2.03	0.41
1:fU:102:GLU:OE1	1:md:98:LEU:O	2.39	0.41
2:gc:13:LYS:HB3	2:ge:43:ALA:HB3	2.02	0.41
2:gf:248:ASN:OD1	2:gf:248:ASN:O	2.38	0.41
2:gg:251:ALA:HB2	2:gg:257:LEU:HD21	2.01	0.41
1:gn:62:THR:HG21	1:gn:97:PRO:HB3	2.03	0.41
2:gs:88:ARG:O	2:gs:91:ILE:HG12	2.19	0.41
2:gC:224:TRP:CE3	2:gC:226:LEU:HD12	2.55	0.41
2:gC:229:MET:HB3	2:gC:234:LEU:HD22	2.01	0.41
2:gC:303:LEU:HD23	2:gC:303:LEU:H	1.85	0.41
2:gE:79:LEU:HG	2:gG:59:TRP:CD1	2.56	0.41
2:gF:79:LEU:HD11	2:gI:59:TRP:HA	2.02	0.41
2:gF:83:THR:HG23	2:gF:205:MET:CG	2.51	0.41
2:gF:230:SER:O	2:gF:231:THR:HG22	2.20	0.41
2:gH:5:THR:HG22	1:pd:87:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gH:233:GLU:OE1	2:gH:234:LEU:HD22	2.20	0.41
1:gK:98:LEU:O	2:gU:62:GLN:NE2	2.54	0.41
2:gR:98:VAL:HG21	2:lZ:9:ILE:HD11	2.02	0.41
2:gT:66:LYS:HB2	2:gU:84:VAL:HG12	2.02	0.41
2:gU:9:ILE:O	2:gU:9:ILE:CG2	2.68	0.41
2:gU:182:LEU:HG	2:gU:182:LEU:O	2.21	0.41
2:gV:248:ASN:OD1	2:gV:248:ASN:O	2.37	0.41
2:gV:281:GLN:O	2:gV:289:ASN:N	2.53	0.41
1:gX:57:VAL:O	1:gX:79:GLY:O	2.38	0.41
1:gY:98:LEU:O	2:hi:62:GLN:NE2	2.54	0.41
2:hf:82:SER:HB2	2:hf:206:ALA:H	1.85	0.41
2:hf:201:GLU:O	2:hf:202:GLN:C	2.62	0.41
2:hj:179:LEU:HD22	2:hj:209:TYR:HD2	1.86	0.41
1:hl:65:ARG:HG2	1:hl:96:ASP:HB2	2.02	0.41
1:hm:98:LEU:O	2:hv:62:GLN:NE2	2.54	0.41
1:hn:58:PHE:HB3	1:hn:101:VAL:HG21	2.03	0.41
2:ht:59:TRP:NE1	2:ht:63:ARG:HG3	2.35	0.41
2:hx:62:GLN:HB3	1:kJ:103:ARG:O	2.20	0.41
1:hz:64:GLU:OE1	1:hz:66:ARG:NH2	2.53	0.41
2:hG:79:LEU:HG	2:hI:59:TRP:CD1	2.56	0.41
2:hG:208:GLU:OE1	2:hG:210:ARG:NE	2.53	0.41
2:hK:181:PRO:C	5:qt:177:SER:CA	2.93	0.41
2:hK:226:LEU:HA	2:hK:238:ASN:ND2	2.35	0.41
2:hK:226:LEU:HD21	2:hK:273:LYS:HB3	2.03	0.41
1:hL:57:VAL:O	1:hL:79:GLY:O	2.38	0.41
1:hM:98:LEU:O	2:hW:62:GLN:NE2	2.54	0.41
2:hS:194:SER:O	2:hS:199:ASP:O	2.39	0.41
2:ih:8:LEU:HD12	2:ih:8:LEU:N	2.35	0.41
2:ij:83:THR:HG23	2:ij:205:MET:CG	2.50	0.41
2:im:245:ALA:O	2:im:249:GLN:HG2	2.20	0.41
2:iu:303:LEU:H	2:iu:303:LEU:HD23	1.86	0.41
2:iw:79:LEU:HG	2:iy:59:TRP:CD1	2.56	0.41
2:iz:77:ASN:ND2	2:iz:209:TYR:O	2.53	0.41
2:iz:144:TYR:HB3	2:iz:145:PRO:HD3	2.01	0.41
2:iA:273:LYS:HA	2:iA:273:LYS:HD2	1.93	0.41
1:iB:94:GLU:CG	2:jN:2:ALA:N	2.83	0.41
2:iJ:191:SER:CB	2:iO:191:SER:HB3	2.50	0.41
2:iL:83:THR:HG23	2:iL:205:MET:CG	2.51	0.41
2:iM:123:LYS:HD3	2:iM:303:LEU:HB2	2.02	0.41
2:iM:187:ARG:O	2:iM:187:ARG:CG	2.68	0.41
2:iN:42:THR:O	2:iN:179:LEU:HD11	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iO:122:LEU:HD23	2:iO:122:LEU:C	2.45	0.41
2:iO:221:PHE:HD2	2:iO:224:TRP:HE1	1.69	0.41
1:iU:60:ARG:CB	1:iU:102:GLU:HB3	2.50	0.41
2:ja:187:ARG:O	2:ja:187:ARG:CG	2.68	0.41
2:jb:42:THR:O	2:jb:179:LEU:HD11	2.21	0.41
2:jc:221:PHE:HD2	2:jc:224:TRP:HE1	1.69	0.41
1:je:98:LEU:O	2:jo:62:GLN:NE2	2.54	0.41
2:jp:248:ASN:OD1	2:jp:248:ASN:O	2.38	0.41
2:jq:64:VAL:HG23	2:jq:64:VAL:O	2.19	0.41
2:jq:221:PHE:HD2	2:jq:224:TRP:HE1	1.69	0.41
2:jq:228:ALA:HB3	2:jq:273:LYS:HE3	2.02	0.41
2:jq:249:GLN:HB3	2:jq:257:LEU:HD12	2.03	0.41
1:jr:65:ARG:HG2	1:jr:96:ASP:HB2	2.02	0.41
1:js:101:VAL:HG22	1:js:102:GLU:N	2.35	0.41
2:jz:82:SER:HB2	2:jz:206:ALA:H	1.85	0.41
2:jA:13:LYS:HB3	2:jC:43:ALA:HB3	2.02	0.41
2:jA:61:GLY:CA	1:kZ:103:ARG:NE	2.83	0.41
2:jD:248:ASN:OD1	2:jD:248:ASN:O	2.38	0.41
1:jH:103:ARG:H	2:os:62:GLN:HG2	1.85	0.41
1:jL:62:THR:HG21	1:jL:97:PRO:HB3	2.03	0.41
2:jQ:182:LEU:HG	2:jQ:182:LEU:O	2.21	0.41
2:jS:228:ALA:HB3	2:jS:273:LYS:HE3	2.02	0.41
1:jW:86:SER:O	1:jW:90:LEU:N	2.50	0.41
2:ka:229:MET:HB3	2:ka:234:LEU:HD22	2.01	0.41
2:kb:82:SER:HB2	2:kb:206:ALA:H	1.85	0.41
2:kc:208:GLU:OE1	2:kc:210:ARG:NE	2.53	0.41
2:kd:230:SER:O	2:kd:231:THR:HG22	2.20	0.41
2:ke:182:LEU:HG	2:ke:182:LEU:O	2.21	0.41
2:kf:179:LEU:HD22	2:kf:209:TYR:HD2	1.86	0.41
2:kf:281:GLN:O	2:kf:289:ASN:N	2.53	0.41
2:kg:243:TYR:CD1	2:kg:294:LEU:HD21	2.56	0.41
1:kj:58:PHE:HB3	1:kj:101:VAL:HG21	2.03	0.41
2:kp:63:ARG:NH2	2:ks:207:ASP:OD1	2.53	0.41
2:kq:79:LEU:HD11	2:kt:59:TRP:HA	2.02	0.41
2:kr:9:ILE:O	2:kr:9:ILE:CG2	2.68	0.41
2:kr:88:ARG:O	2:kr:91:ILE:HG12	2.19	0.41
2:kt:103:MET:CE	5:qD:56:ASN:HB2	2.51	0.41
2:kt:245:ALA:O	2:kt:249:GLN:HG2	2.20	0.41
1:kv:98:LEU:O	2:kF:62:GLN:NE2	2.54	0.41
2:kD:79:LEU:HG	2:kF:59:TRP:CD1	2.56	0.41
1:kI:65:ARG:HG2	1:kI:96:ASP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:kJ:64:GLU:OE1	1:kJ:66:ARG:NH2	2.53	0.41
1:kL:57:VAL:O	1:kL:59:VAL:HG23	2.19	0.41
1:kN:60:ARG:CB	1:kN:102:GLU:HB3	2.50	0.41
2:kR:13:LYS:HB3	2:kT:43:ALA:HB3	2.02	0.41
2:kT:182:LEU:HG	2:kT:182:LEU:O	2.21	0.41
1:kX:60:ARG:O	1:kX:61:ALA:HB3	2.21	0.41
1:kZ:98:LEU:O	1:lz:102:GLU:OE1	2.39	0.41
2:lh:182:LEU:HG	2:lh:182:LEU:O	2.21	0.41
2:lh:287:ALA:O	2:lh:288:ASP:CG	2.64	0.41
2:li:281:GLN:O	2:li:289:ASN:N	2.53	0.41
1:ln:86:SER:O	1:ln:90:LEU:N	2.50	0.41
1:lq:60:ARG:HD2	1:lq:102:GLU:OE1	2.20	0.41
2:lr:224:TRP:CE3	2:lr:226:LEU:HD12	2.55	0.41
2:lr:303:LEU:H	2:lr:303:LEU:HD23	1.86	0.41
2:ls:42:THR:HG22	2:ls:43:ALA:H	1.85	0.41
2:ls:82:SER:HB2	2:ls:206:ALA:H	1.85	0.41
2:lt:63:ARG:NH2	2:lw:207:ASP:OD1	2.53	0.41
2:lu:79:LEU:HD11	2:lx:59:TRP:HA	2.02	0.41
2:lw:42:THR:O	2:lw:179:LEU:HD11	2.21	0.41
1:ly:57:VAL:O	1:ly:79:GLY:O	2.38	0.41
2:II:83:THR:HG23	2:II:205:MET:CG	2.51	0.41
2:II:264:LEU:O	2:II:297:VAL:HG23	2.21	0.41
2:IJ:161:ALA:N	2:IJ:162:PRO:CD	2.84	0.41
2:IL:243:TYR:CD1	2:IL:294:LEU:HD21	2.56	0.41
2:IY:179:LEU:HD22	2:IY:209:TYR:HD2	1.86	0.41
1:mb:64:GLU:OE1	1:mb:66:ARG:NH2	2.53	0.41
1:mg:62:THR:HG21	1:mg:97:PRO:HB3	2.03	0.41
2:mi:77:ASN:HD21	2:mi:179:LEU:HD11	1.84	0.41
2:ml:182:LEU:HG	2:ml:182:LEU:O	2.21	0.41
2:ml:228:ALA:O	2:ml:284:ALA:HB2	2.20	0.41
2:mm:233:GLU:OE1	2:mm:234:LEU:HD22	2.20	0.41
2:mm:248:ASN:OD1	2:mm:248:ASN:O	2.38	0.41
2:mn:221:PHE:HD2	2:mn:224:TRP:HE1	1.69	0.41
1:mr:103:ARG:NE	2:oF:61:GLY:CA	2.83	0.41
1:mu:62:THR:HG21	1:mu:97:PRO:HB3	2.03	0.41
2:mw:98:VAL:HG21	2:oJ:9:ILE:HD11	2.02	0.41
2:mz:182:LEU:HG	2:mz:182:LEU:O	2.21	0.41
1:mC:57:VAL:O	1:mC:79:GLY:O	2.38	0.41
1:mH:57:VAL:HG22	1:mH:104:CYS:H	1.83	0.41
2:mK:201:GLU:O	2:mK:202:GLN:C	2.62	0.41
2:mL:13:LYS:HB3	2:mN:43:ALA:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mM:234:LEU:HG	2:mM:239:PHE:HB2	2.02	0.41
2:mP:144:TYR:HH	2:mP:254:GLY:H	1.66	0.41
1:mS:63:VAL:HG22	1:mS:75:LYS:N	2.35	0.41
2:mY:42:THR:HG22	2:mY:43:ALA:H	1.85	0.41
2:mY:82:SER:HB2	2:mY:206:ALA:H	1.85	0.41
2:mY:141:HIS:CD2	2:mY:150:THR:HG1	2.36	0.41
2:mY:191:SER:CB	2:nd:191:SER:HB3	2.50	0.41
2:nd:30:THR:HG23	2:nd:298:LEU:HD13	2.02	0.41
2:nd:249:GLN:HB3	2:nd:257:LEU:HD12	2.03	0.41
2:nd:264:LEU:HB2	2:nd:295:VAL:HG11	2.02	0.41
2:no:79:LEU:HD11	2:nr:59:TRP:HA	2.02	0.41
2:nr:264:LEU:HB2	2:nr:295:VAL:HG11	2.02	0.41
1:nt:98:LEU:O	2:nD:62:GLN:NE2	2.54	0.41
1:ny:60:ARG:HD2	1:ny:102:GLU:OE1	2.20	0.41
2:nz:182:LEU:H	2:nz:182:LEU:HD23	1.84	0.41
2:nz:229:MET:HB3	2:nz:234:LEU:HD22	2.01	0.41
2:nA:82:SER:HB2	2:nA:206:ALA:H	1.85	0.41
2:nB:13:LYS:HB3	2:nD:43:ALA:HB3	2.02	0.41
1:nI:58:PHE:HB3	1:nI:101:VAL:HG21	2.03	0.41
2:nN:194:SER:O	2:nN:199:ASP:O	2.39	0.41
2:nO:44:SER:OG	2:nO:45:ASN:N	2.51	0.41
2:nO:98:VAL:HG21	2:oh:9:ILE:HD11	2.02	0.41
2:nS:42:THR:HG22	2:nS:43:ALA:N	2.36	0.41
2:nT:236:GLN:CB	2:nT:240:GLU:HB3	2.49	0.41
1:nV:64:GLU:OE1	1:nV:66:ARG:NH2	2.53	0.41
1:nV:98:LEU:O	2:of:62:GLN:NE2	2.54	0.41
2:oc:21:GLN:O	2:oc:22:ASP:OD1	2.37	0.41
2:oc:191:SER:CB	2:oh:191:SER:HB3	2.50	0.41
2:od:208:GLU:OE1	2:od:210:ARG:NE	2.53	0.41
2:oe:148:ASP:OD1	2:oe:149:GLY:N	2.53	0.41
2:oh:226:LEU:HD21	2:oh:273:LYS:HB3	2.03	0.41
1:oj:98:LEU:O	2:ot:62:GLN:NE2	2.54	0.41
1:ok:58:PHE:HB3	1:ok:101:VAL:HG21	2.03	0.41
2:os:264:LEU:O	2:os:297:VAL:HG23	2.21	0.41
1:ox:60:ARG:O	1:ox:61:ALA:HB3	2.21	0.41
2:oF:63:ARG:NH2	2:oI:207:ASP:OD1	2.53	0.41
2:oF:79:LEU:HG	2:oH:59:TRP:CD1	2.56	0.41
2:oG:264:LEU:O	2:oG:297:VAL:HG23	2.21	0.41
2:oH:20:PHE:N	2:oH:20:PHE:CD1	2.87	0.41
2:oJ:221:PHE:HD2	2:oJ:224:TRP:HE1	1.69	0.41
2:oR:98:VAL:O	2:oR:99:TYR:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oS:8:LEU:HD12	2:oS:8:LEU:N	2.35	0.41
2:oS:42:THR:HG22	2:oS:43:ALA:H	1.85	0.41
2:oT:79:LEU:HG	2:oV:59:TRP:CD1	2.56	0.41
2:oV:20:PHE:N	2:oV:20:PHE:CD1	2.87	0.41
2:oV:187:ARG:O	2:oV:187:ARG:CG	2.68	0.41
2:oX:226:LEU:HA	2:oX:238:ASN:ND2	2.35	0.41
2:pg:8:LEU:HD12	2:pg:8:LEU:N	2.35	0.41
2:ph:280:VAL:HG22	2:ph:282:ARG:H	1.85	0.41
2:pj:88:ARG:O	2:pj:91:ILE:HG12	2.19	0.41
2:pj:187:ARG:O	2:pj:187:ARG:CG	2.68	0.41
2:pl:245:ALA:O	2:pl:249:GLN:HG2	2.20	0.41
1:pm:58:PHE:HB3	1:pm:101:VAL:HG13	2.02	0.41
2:py:263:LEU:HD23	2:py:296:GLN:HE21	1.83	0.41
1:pB:60:ARG:O	1:pB:61:ALA:HB3	2.21	0.41
2:pJ:63:ARG:HE	2:pM:205:MET:CE	2.30	0.41
2:pJ:208:GLU:OE1	2:pJ:210:ARG:NE	2.53	0.41
2:pK:66:LYS:HB2	2:pL:84:VAL:HG12	2.02	0.41
1:pP:101:VAL:HG22	1:pP:102:GLU:N	2.35	0.41
1:pT:60:ARG:CB	1:pT:102:GLU:HB3	2.50	0.41
2:pX:208:GLU:OE1	2:pX:210:ARG:NE	2.53	0.41
2:pZ:287:ALA:O	2:pZ:288:ASP:CG	2.64	0.41
2:qb:122:LEU:HD23	2:qb:122:LEU:C	2.45	0.41
2:qb:245:ALA:O	2:qb:249:GLN:HG2	2.20	0.41
3:qe:63:GLN:CD	4:ql:220:SER:O	2.62	0.41
3:qe:95:ARG:HA	3:qe:98:ALA:HB3	2.01	0.41
3:qg:25:LEU:CD2	6:qG:82:VAL:HB	2.45	0.41
3:qh:31:VAL:HG13	3:qh:48:TYR:CD1	2.55	0.41
4:qj:79:ASN:O	4:qj:83:THR:HG22	2.20	0.41
4:qm:85:TYR:CE1	4:qm:212:PRO:HD3	2.55	0.41
4:qn:64:LYS:O	4:qo:55:ALA:CB	2.68	0.41
6:qq:8:ASP:HB3	6:qs:39:ARG:NH2	2.35	0.41
6:qq:112:LEU:HD23	6:qs:58:LEU:HD13	0.46	0.41
6:qs:8:ASP:HB3	6:qu:39:ARG:NH2	2.35	0.41
5:qv:85:ILE:HD13	5:qv:331:LEU:HD12	2.02	0.41
6:qw:112:LEU:HD23	6:qy:58:LEU:CB	2.43	0.41
5:qz:385:PRO:O	5:qz:389:ASN:OD1	2.38	0.41
5:qD:139:LEU:HD12	5:qD:139:LEU:N	2.36	0.41
5:qD:317:PHE:HZ	5:qF:319:LEU:CD1	2.18	0.41
5:qF:42:PRO:CD	6:qK:133:ASP:OD1	2.59	0.41
6:qG:17:LYS:HD2	6:qI:81:ILE:HG21	2.03	0.41
5:qJ:73:HIS:O	5:qJ:77:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qL:385:PRO:O	5:qL:389:ASN:OD1	2.38	0.41
1:aa:60:ARG:O	1:aa:61:ALA:HB3	2.21	0.41
1:aa:98:LEU:O	2:ak:62:GLN:NE2	2.54	0.41
1:aa:102:GLU:OE1	1:nh:98:LEU:O	2.39	0.41
1:ab:58:PHE:HB3	1:ab:101:VAL:HG21	2.03	0.41
2:ag:98:VAL:O	2:ag:99:TYR:HB3	2.21	0.41
2:ai:235:ASN:HD21	2:ai:290:PRO:HD2	1.86	0.41
2:ak:161:ALA:N	2:ak:162:PRO:CD	2.84	0.41
1:ao:104:CYS:HA	2:hY:62:GLN:HE22	1.82	0.41
1:ap:58:PHE:HB3	1:ap:101:VAL:HG21	2.03	0.41
1:as:100:LYS:HB3	2:bN:197:LYS:HZ2	1.85	0.41
2:az:226:LEU:HA	2:az:238:ASN:ND2	2.35	0.41
1:aG:62:THR:HG21	1:aG:97:PRO:HB3	2.03	0.41
2:aK:62:GLN:HG2	1:kK:103:ARG:H	1.85	0.41
2:aN:62:GLN:HB3	1:hm:103:ARG:O	2.20	0.41
1:aO:58:PHE:HB3	1:aO:101:VAL:HG13	2.02	0.41
1:aP:64:GLU:OE1	1:aP:66:ARG:NH2	2.53	0.41
1:aQ:102:GLU:HB3	1:jf:99:LEU:HD23	1.96	0.41
1:aT:100:LYS:HB3	2:iL:197:LYS:HZ2	1.85	0.41
2:aV:98:VAL:O	2:aV:99:TYR:HB3	2.21	0.41
2:aW:191:SER:CB	2:bb:191:SER:HB3	2.50	0.41
2:aX:280:VAL:HG22	2:aX:282:ARG:H	1.85	0.41
2:aZ:280:VAL:O	2:aZ:289:ASN:ND2	2.54	0.41
2:ba:233:GLU:OE1	2:ba:234:LEU:HD22	2.20	0.41
2:bj:182:LEU:H	2:bj:182:LEU:HD23	1.85	0.41
2:bk:98:VAL:HG21	2:dw:9:ILE:HD11	2.02	0.41
2:bl:235:ASN:HD21	2:bl:290:PRO:HD2	1.86	0.41
2:bn:228:ALA:O	2:bn:284:ALA:HB2	2.20	0.41
2:bo:5:THR:HG22	1:ji:87:ASP:HB3	2.02	0.41
2:bx:303:LEU:H	2:bx:303:LEU:HD23	1.85	0.41
2:by:98:VAL:HG21	2:hY:9:ILE:HD11	2.02	0.41
2:bA:62:GLN:HG2	1:eR:103:ARG:H	1.85	0.41
2:bC:233:GLU:OE1	2:bC:234:LEU:HD22	2.20	0.41
2:bM:197:LYS:CE	1:gM:99:LEU:HA	2.49	0.41
2:bN:62:GLN:HE21	1:gL:102:GLU:HG2	1.84	0.41
2:bO:20:PHE:N	2:bO:20:PHE:CD1	2.87	0.41
2:bO:287:ALA:O	2:bO:288:ASP:CG	2.63	0.41
2:bQ:226:LEU:HD21	2:bQ:273:LYS:HB3	2.03	0.41
1:bS:101:VAL:HG22	1:bS:102:GLU:N	2.35	0.41
1:bW:86:SER:O	1:bW:90:LEU:N	2.51	0.41
2:ca:63:ARG:NH2	2:cd:207:ASP:OD1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cc:280:VAL:O	2:cc:289:ASN:ND2	2.54	0.41
2:cd:281:GLN:O	2:cd:289:ASN:N	2.53	0.41
2:ce:106:MET:HE3	2:ce:206:ALA:HB3	2.02	0.41
2:ce:245:ALA:O	2:ce:249:GLN:HG2	2.20	0.41
2:cp:221:PHE:CG	2:cp:242:VAL:HG13	2.56	0.41
2:cq:9:ILE:O	2:cq:9:ILE:CG2	2.68	0.41
2:cq:161:ALA:N	2:cq:162:PRO:CD	2.84	0.41
2:cq:163:ALA:O	2:cq:264:LEU:HD12	2.21	0.41
2:cq:228:ALA:O	2:cq:284:ALA:HB2	2.20	0.41
2:cr:42:THR:O	2:cr:179:LEU:HD11	2.21	0.41
2:cs:215:SER:OG	2:cs:216:ARG:N	2.52	0.41
2:cs:221:PHE:HD2	2:cs:224:TRP:HE1	1.69	0.41
2:cs:264:LEU:HB2	2:cs:295:VAL:HG11	2.02	0.41
2:cC:13:LYS:HB3	2:cE:43:ALA:HB3	2.02	0.41
2:cD:144:TYR:HB3	2:cD:145:PRO:CD	2.49	0.41
2:cG:221:PHE:HD2	2:cG:224:TRP:HE1	1.69	0.41
2:cR:264:LEU:O	2:cR:297:VAL:HG23	2.21	0.41
2:cU:228:ALA:HB3	2:cU:273:LYS:HE3	2.02	0.41
2:cU:249:GLN:HB3	2:cU:257:LEU:HD12	2.03	0.41
1:cW:60:ARG:O	1:cW:61:ALA:HB3	2.21	0.41
1:cX:58:PHE:HB3	1:cX:101:VAL:HG21	2.03	0.41
1:da:100:LYS:HB3	2:eL:197:LYS:HZ2	1.85	0.41
2:dc:98:VAL:O	2:dc:99:TYR:HB3	2.20	0.41
2:de:79:LEU:HG	2:dg:59:TRP:CD1	2.56	0.41
2:di:182:LEU:O	2:di:182:LEU:CD1	2.67	0.41
1:dl:63:VAL:HG22	1:dl:75:LYS:N	2.35	0.41
1:do:57:VAL:HG22	1:do:104:CYS:H	1.84	0.41
1:do:87:ASP:HB3	2:ks:5:THR:HG22	2.02	0.41
2:dq:229:MET:HB3	2:dq:234:LEU:HD22	2.01	0.41
2:dE:13:LYS:NZ	2:eZ:90:ASP:O	2.52	0.41
2:dF:63:ARG:HD2	2:eX:205:MET:CE	2.49	0.41
2:dF:98:VAL:HG21	2:pl:9:ILE:HD11	2.02	0.41
2:dG:13:LYS:HB3	2:dI:43:ALA:HB3	2.02	0.41
2:dG:59:TRP:NE1	2:dG:63:ARG:HG3	2.35	0.41
2:dG:61:GLY:CA	1:eS:103:ARG:NE	2.83	0.41
2:dG:280:VAL:HG22	2:dG:282:ARG:H	1.85	0.41
2:dH:83:THR:HG23	2:dH:205:MET:CG	2.51	0.41
2:dK:245:ALA:O	2:dK:249:GLN:HG2	2.20	0.41
1:dL:65:ARG:HG2	1:dL:96:ASP:HB2	2.02	0.41
1:dR:62:THR:HG21	1:dR:97:PRO:HB3	2.03	0.41
2:dV:83:THR:HG23	2:dV:205:MET:CG	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dW:187:ARG:O	2:dW:187:ARG:CG	2.68	0.41
2:dY:273:LYS:HA	2:dY:273:LYS:HD2	1.93	0.41
1:eb:99:LEU:HD22	1:ft:60:ARG:NE	2.12	0.41
1:eb:103:ARG:H	2:oe:62:GLN:HG2	1.85	0.41
2:eg:194:SER:O	2:eg:199:ASP:O	2.39	0.41
2:ei:59:TRP:NE1	2:ei:63:ARG:HG3	2.35	0.41
2:ei:61:GLY:CA	1:nv:103:ARG:NE	2.83	0.41
1:ep:102:GLU:HG2	2:pi:62:GLN:HE21	1.84	0.41
2:ev:98:VAL:HG21	2:gl:9:ILE:HD11	2.02	0.41
2:ev:177:ARG:HH11	2:ev:177:ARG:HG3	1.83	0.41
2:ev:191:SER:CB	2:eA:191:SER:HB3	2.50	0.41
2:ew:280:VAL:HG22	2:ew:282:ARG:H	1.85	0.41
2:ex:148:ASP:OD1	2:ex:149:GLY:N	2.53	0.41
2:ey:88:ARG:O	2:ey:91:ILE:HG12	2.19	0.41
2:ez:42:THR:HG22	2:ez:43:ALA:N	2.36	0.41
2:ez:200:ASP:N	2:ez:200:ASP:OD1	2.50	0.41
2:eA:64:VAL:HG23	2:eA:64:VAL:O	2.19	0.41
2:eA:226:LEU:HA	2:eA:238:ASN:ND2	2.35	0.41
1:eC:103:ARG:O	2:im:62:GLN:HB3	2.20	0.41
1:eD:63:VAL:HG22	1:eD:75:LYS:N	2.35	0.41
2:eJ:42:THR:HG22	2:eJ:43:ALA:H	1.85	0.41
2:eL:79:LEU:HD11	2:eO:59:TRP:HA	2.02	0.41
2:eN:77:ASN:ND2	2:eN:209:TYR:O	2.53	0.41
1:eP:58:PHE:HB3	1:eP:101:VAL:HG13	2.02	0.41
2:eW:225:GLN:O	2:eW:226:LEU:C	2.64	0.41
2:eX:8:LEU:HD12	2:eX:8:LEU:N	2.35	0.41
2:eZ:144:TYR:HB3	2:eZ:145:PRO:CD	2.49	0.41
2:fb:9:ILE:HD11	2:iK:70:ALA:CB	2.51	0.41
2:fb:89:THR:N	2:fb:200:ASP:OD2	2.36	0.41
2:fb:263:LEU:HD23	2:fb:296:GLN:HE21	1.83	0.41
2:fc:64:VAL:HG23	2:fc:64:VAL:O	2.20	0.41
1:fe:60:ARG:O	1:fe:61:ALA:HB3	2.21	0.41
2:fl:201:GLU:O	2:fl:202:GLN:C	2.62	0.41
2:fm:79:LEU:HG	2:fo:59:TRP:CD1	2.56	0.41
2:fo:123:LYS:HD3	2:fo:303:LEU:HB2	2.02	0.41
2:fp:233:GLU:OE1	2:fp:234:LEU:HD22	2.20	0.41
2:fq:226:LEU:HD21	2:fq:273:LYS:HB3	2.03	0.41
2:fq:243:TYR:CD1	2:fq:294:LEU:HD21	2.56	0.41
2:fy:98:VAL:O	2:fy:99:TYR:HB3	2.20	0.41
2:fB:79:LEU:HD11	2:fE:59:TRP:HA	2.02	0.41
2:fE:249:GLN:HB3	2:fE:257:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fN:141:HIS:HB3	2:fN:143:VAL:HG23	2.01	0.41
2:fR:179:LEU:HD22	2:fR:209:TYR:HD2	1.86	0.41
2:fS:228:ALA:HB3	2:fS:273:LYS:HE3	2.02	0.41
1:fT:57:VAL:O	1:fT:79:GLY:O	2.38	0.41
1:fT:94:GLU:CG	2:lU:2:ALA:N	2.83	0.41
1:fW:57:VAL:O	1:fW:59:VAL:HG23	2.19	0.41
1:fZ:62:THR:HG21	1:fZ:97:PRO:HB3	2.03	0.41
2:ga:98:VAL:O	2:ga:99:TYR:HB3	2.21	0.41
2:gb:42:THR:HG22	2:gb:43:ALA:H	1.85	0.41
2:gc:59:TRP:NE1	2:gc:63:ARG:HG3	2.35	0.41
2:gc:63:ARG:NH2	2:gf:207:ASP:OD1	2.53	0.41
2:ge:4:ILE:HG23	1:nt:90:LEU:HB3	2.02	0.41
2:go:303:LEU:H	2:go:303:LEU:HD23	1.85	0.41
1:gy:57:VAL:O	1:gy:59:VAL:HG23	2.19	0.41
2:gG:9:ILE:O	2:gG:9:ILE:CG2	2.68	0.41
1:gK:101:VAL:HG22	1:gK:102:GLU:N	2.35	0.41
2:gQ:98:VAL:O	2:gQ:99:TYR:HB3	2.21	0.41
2:gS:208:GLU:OE1	2:gS:210:ARG:NE	2.53	0.41
2:gT:234:LEU:HG	2:gT:239:PHE:HB2	2.02	0.41
2:gW:106:MET:HE3	2:gW:206:ALA:HB3	2.02	0.41
1:gY:64:GLU:OE1	1:gY:66:ARG:NH2	2.53	0.41
1:hc:60:ARG:CB	1:hc:102:GLU:HB3	2.50	0.41
2:hF:42:THR:HG22	2:hF:43:ALA:H	1.85	0.41
2:hF:63:ARG:HD2	2:lG:205:MET:CE	2.49	0.41
2:hK:249:GLN:HB3	2:hK:257:LEU:HD12	2.03	0.41
2:hs:194:SER:O	2:hs:199:ASP:O	2.39	0.41
2:hH:79:LEU:HD11	2:hK:59:TRP:HA	2.02	0.41
2:hH:144:TYR:HB3	2:hH:145:PRO:CD	2.49	0.41
2:hK:122:LEU:HD23	2:hK:122:LEU:C	2.45	0.41
2:hK:228:ALA:HB3	2:hK:273:LYS:HE3	2.02	0.41
2:hK:245:ALA:O	2:hK:249:GLN:HG2	2.20	0.41
2:hT:213:VAL:HG12	2:hT:214:ARG:O	2.20	0.41
1:if:60:ARG:HD2	1:if:102:GLU:OE1	2.20	0.41
2:ih:75:ILE:HG21	2:ih:177:ARG:NH1	2.32	0.41
2:ii:63:ARG:NH2	2:il:207:ASP:OD1	2.53	0.41
2:ii:79:LEU:HG	2:ik:59:TRP:CD1	2.56	0.41
2:ij:66:LYS:HB2	2:ik:84:VAL:HG12	2.02	0.41
2:ij:79:LEU:HD11	2:im:59:TRP:HA	2.02	0.41
2:ik:62:GLN:NE2	2:nE:197:LYS:NZ	2.68	0.41
2:ik:123:LYS:HD3	2:ik:303:LEU:HB2	2.02	0.41
2:ik:228:ALA:O	2:ik:284:ALA:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:im:226:LEU:HA	2:im:238:ASN:ND2	2.35	0.41
2:im:228:ALA:HB3	2:im:273:LYS:HE3	2.02	0.41
1:ip:63:VAL:HG22	1:ip:75:LYS:N	2.35	0.41
2:iu:98:VAL:O	2:iu:99:TYR:HB3	2.21	0.41
2:ix:83:THR:HG23	2:ix:205:MET:CG	2.50	0.41
2:ix:230:SER:O	2:ix:231:THR:HG22	2.20	0.41
1:iC:98:LEU:O	2:iM:62:GLN:NE2	2.54	0.41
2:iK:235:ASN:HD21	2:iK:290:PRO:HD2	1.86	0.41
2:iO:64:VAL:O	2:iO:64:VAL:HG23	2.19	0.41
2:iO:226:LEU:HD21	2:iO:273:LYS:HB3	2.03	0.41
1:iS:103:ARG:NH1	2:jm:61:GLY:CA	2.70	0.41
1:iS:103:ARG:NE	2:jm:61:GLY:CA	2.83	0.41
2:iX:191:SER:CB	2:jc:191:SER:HB3	2.50	0.41
2:iY:235:ASN:HD21	2:iY:290:PRO:HD2	1.86	0.41
2:iZ:83:THR:HG23	2:iZ:205:MET:CG	2.51	0.41
2:jc:228:ALA:HB3	2:jc:273:LYS:HE3	2.02	0.41
2:jl:44:SER:OG	2:jl:45:ASN:N	2.51	0.41
2:jl:173:LEU:HA	2:jl:215:SER:HB3	2.01	0.41
2:jo:30:THR:HG21	2:jo:298:LEU:HD13	2.01	0.41
2:jp:144:TYR:HB3	2:jp:145:PRO:HD3	2.01	0.41
1:jw:60:ARG:CB	1:jw:102:GLU:HB3	2.50	0.41
2:jy:193:THR:HG22	2:le:193:THR:HG23	1.99	0.41
2:jz:191:SER:CB	2:jE:191:SER:HB3	2.50	0.41
2:jA:59:TRP:NE1	2:jA:63:ARG:HG3	2.35	0.41
2:jD:42:THR:O	2:jD:179:LEU:HD11	2.21	0.41
2:jE:62:GLN:HB3	1:jU:103:ARG:O	2.20	0.41
2:jE:62:GLN:HE22	1:jU:104:CYS:HA	1.82	0.41
2:jE:226:LEU:HD21	2:jE:273:LYS:HB3	2.03	0.41
2:jE:243:TYR:CD1	2:jE:294:LEU:HD21	2.56	0.41
2:jO:79:LEU:HG	2:jQ:59:TRP:CD1	2.56	0.41
2:jS:221:PHE:HD2	2:jS:224:TRP:HE1	1.69	0.41
2:jS:264:LEU:HB2	2:jS:295:VAL:HG11	2.02	0.41
1:jV:95:SER:OG	1:jV:96:ASP:N	2.52	0.41
1:jW:98:LEU:O	1:mR:102:GLU:OE1	2.39	0.41
2:kb:8:LEU:HD12	2:kb:8:LEU:N	2.35	0.41
2:kb:42:THR:HG22	2:kb:43:ALA:H	1.85	0.41
2:kb:191:SER:CB	2:kg:191:SER:HB3	2.50	0.41
2:kc:61:GLY:CA	1:ln:103:ARG:NE	2.83	0.41
2:kg:221:PHE:HD2	2:kg:224:TRP:HE1	1.69	0.41
2:kg:249:GLN:HB3	2:kg:257:LEU:HD12	2.03	0.41
1:km:60:ARG:CB	1:km:102:GLU:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ko:41:THR:HG22	5:qF:51:GLU:CD	2.43	0.41
2:kq:234:LEU:HG	2:kq:239:PHE:HB2	2.02	0.41
2:kr:287:ALA:O	2:kr:288:ASP:CG	2.64	0.41
2:ks:144:TYR:HB3	2:ks:145:PRO:HD3	2.01	0.41
2:kt:249:GLN:HB3	2:kt:257:LEU:HD12	2.02	0.41
2:kC:2:ALA:N	1:kW:94:GLU:CG	2.83	0.41
2:kH:228:ALA:HB3	2:kH:273:LYS:HE3	2.02	0.41
2:kH:264:LEU:HB2	2:kH:295:VAL:HG11	2.02	0.41
2:kP:182:LEU:H	2:kP:182:LEU:HD23	1.85	0.41
2:kP:303:LEU:HD23	2:kP:303:LEU:H	1.86	0.41
2:kS:83:THR:HG23	2:kS:205:MET:CG	2.50	0.41
2:kS:234:LEU:HG	2:kS:239:PHE:HB2	2.02	0.41
1:lc:99:LEU:HD23	1:mQ:102:GLU:CG	2.18	0.41
2:lf:59:TRP:NE1	2:lf:63:ARG:HG3	2.35	0.41
2:lf:79:LEU:HG	2:lh:59:TRP:CD1	2.56	0.41
2:lh:161:ALA:N	2:lh:162:PRO:CD	2.84	0.41
2:li:233:GLU:OE1	2:li:234:LEU:HD22	2.20	0.41
2:li:236:GLN:HA	2:li:240:GLU:HB3	2.03	0.41
2:lj:64:VAL:O	2:lj:64:VAL:HG23	2.19	0.41
1:ll:98:LEU:O	2:lv:62:GLN:NE2	2.54	0.41
2:lx:221:PHE:HD2	2:lx:224:TRP:HE1	1.69	0.41
2:lx:243:TYR:CD1	2:lx:294:LEU:HD21	2.56	0.41
2:lx:249:GLN:HB3	2:lx:257:LEU:HD12	2.02	0.41
1:lB:99:LEU:HA	2:oF:197:LYS:CE	2.49	0.41
2:lH:79:LEU:HG	2:lJ:59:TRP:CD1	2.56	0.41
2:lJ:123:LYS:HD3	2:lJ:303:LEU:HB2	2.02	0.41
2:lL:106:MET:HE3	2:lL:206:ALA:HB3	2.02	0.41
2:lL:227:ALA:HB1	2:lL:229:MET:SD	2.61	0.41
1:lM:58:PHE:HB3	1:lM:101:VAL:HG13	2.02	0.41
2:lT:194:SER:O	2:lT:199:ASP:O	2.39	0.41
2:lT:303:LEU:H	2:lT:303:LEU:HD23	1.86	0.41
2:lY:248:ASN:OD1	2:lY:248:ASN:O	2.38	0.41
2:lY:281:GLN:O	2:lY:289:ASN:N	2.53	0.41
2:lZ:228:ALA:HB3	2:lZ:273:LYS:HE3	2.02	0.41
2:mh:229:MET:HB3	2:mh:234:LEU:HD22	2.01	0.41
2:mj:13:LYS:HB3	2:ml:43:ALA:HB3	2.02	0.41
2:ml:88:ARG:O	2:ml:91:ILE:HG12	2.19	0.41
2:ml:144:TYR:CG	2:ml:145:PRO:HD2	2.55	0.41
2:mn:30:THR:HG23	2:mn:298:LEU:HD13	2.02	0.41
2:mn:226:LEU:HA	2:mn:238:ASN:ND2	2.35	0.41
1:mp:64:GLU:OE1	1:mp:66:ARG:NH2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mr:103:ARG:NH1	2:of:61:GLY:CA	2.70	0.41
2:mv:98:VAL:O	2:mv:99:TYR:HB3	2.20	0.41
2:mx:280:VAL:HG22	2:mx:282:ARG:H	1.85	0.41
1:mE:63:VAL:HG22	1:mE:75:LYS:N	2.35	0.41
1:mH:86:SER:O	1:mH:90:LEU:N	2.51	0.41
2:mL:70:ALA:CB	2:ow:9:ILE:HD11	2.51	0.41
2:mM:230:SER:O	2:mM:231:THR:HG22	2.20	0.41
2:mN:9:ILE:O	2:mN:9:ILE:CG2	2.68	0.41
2:mN:144:TYR:CG	2:mN:145:PRO:HD2	2.55	0.41
2:mO:5:THR:HG22	1:op:87:ASP:HB3	2.02	0.41
1:mW:62:THR:HG21	1:mW:97:PRO:HB3	2.03	0.41
2:mX:225:GLN:O	2:mX:226:LEU:C	2.64	0.41
2:na:79:LEU:HD11	2:nd:59:TRP:HA	2.02	0.41
2:nb:287:ALA:O	2:nb:288:ASP:CG	2.63	0.41
1:nf:60:ARG:O	1:nf:61:ALA:HB3	2.21	0.41
2:nm:8:LEU:HD12	2:nm:8:LEU:N	2.35	0.41
2:nm:282:ARG:NH2	2:oe:282:ARG:HH11	1.93	0.41
2:no:264:LEU:O	2:no:297:VAL:HG23	2.21	0.41
2:np:182:LEU:HG	2:np:182:LEU:O	2.21	0.41
2:nr:9:ILE:HD11	2:oe:98:VAL:HG21	2.02	0.41
1:ny:57:VAL:CG1	1:ny:59:VAL:HG13	2.50	0.41
2:nC:234:LEU:HG	2:nC:239:PHE:HB2	2.02	0.41
2:nE:42:THR:O	2:nE:179:LEU:HD11	2.21	0.41
2:nF:30:THR:HG23	2:nF:298:LEU:HD13	2.02	0.41
2:nN:62:GLN:OE1	1:nY:102:GLU:HG2	2.02	0.41
2:nN:182:LEU:H	2:nN:182:LEU:HD23	1.85	0.41
2:nP:59:TRP:NE1	2:nP:63:ARG:HG3	2.35	0.41
2:nQ:62:GLN:HG2	1:pa:103:ARG:H	1.85	0.41
2:nR:144:TYR:CG	2:nR:145:PRO:HD2	2.55	0.41
2:nS:42:THR:O	2:nS:179:LEU:HD11	2.21	0.41
2:nS:77:ASN:ND2	2:nS:209:TYR:O	2.53	0.41
2:nT:228:ALA:HB3	2:nT:273:LYS:HE3	2.02	0.41
1:nV:60:ARG:O	1:nV:61:ALA:HB3	2.21	0.41
2:ob:303:LEU:H	2:ob:303:LEU:HD23	1.86	0.41
2:og:42:THR:O	2:og:179:LEU:HD11	2.21	0.41
2:og:248:ASN:OD1	2:og:248:ASN:O	2.38	0.41
1:oi:58:PHE:HB3	1:oi:101:VAL:HG13	2.02	0.41
1:oj:60:ARG:O	1:oj:61:ALA:HB3	2.21	0.41
1:ol:98:LEU:O	1:ol:102:GLU:OE1	2.39	0.41
2:op:194:SER:O	2:op:199:ASP:O	2.39	0.41
2:og:42:THR:HG22	2:og:43:ALA:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ot:228:ALA:O	2:ot:284:ALA:HB2	2.20	0.41
2:ov:249:GLN:HB3	2:ov:257:LEU:HD12	2.03	0.41
1:ox:64:GLU:OE1	1:ox:66:ARG:NH2	2.53	0.41
1:oy:95:SER:OG	1:oy:96:ASP:N	2.52	0.41
2:oF:235:ASN:HD21	2:oF:290:PRO:HD2	1.86	0.41
2:oH:161:ALA:N	2:oH:162:PRO:CD	2.84	0.41
2:oH:287:ALA:O	2:oH:288:ASP:CG	2.64	0.41
2:oI:42:THR:HG22	2:oI:43:ALA:N	2.36	0.41
2:oI:179:LEU:HD22	2:oI:209:TYR:HD2	1.86	0.41
2:oI:281:GLN:O	2:oI:289:ASN:N	2.53	0.41
2:oJ:122:LEU:C	2:oJ:122:LEU:HD23	2.45	0.41
1:oK:58:PHE:HB3	1:oK:101:VAL:HG13	2.02	0.41
1:oL:60:ARG:O	1:oL:61:ALA:HB3	2.21	0.41
1:oM:58:PHE:HB3	1:oM:101:VAL:HG21	2.03	0.41
1:oM:63:VAL:HG22	1:oM:75:LYS:N	2.35	0.41
2:oR:194:SER:O	2:oR:199:ASP:O	2.39	0.41
2:oT:235:ASN:HD21	2:oT:290:PRO:HD2	1.86	0.41
2:oW:179:LEU:HD22	2:oW:209:TYR:HD2	1.86	0.41
1:oZ:64:GLU:OE1	1:oZ:66:ARG:NH2	2.53	0.41
1:pa:58:PHE:HB3	1:pa:101:VAL:HG21	2.03	0.41
2:pf:194:SER:O	2:pf:199:ASP:O	2.39	0.41
2:pf:224:TRP:CE3	2:pf:226:LEU:HD12	2.55	0.41
2:pi:83:THR:HG23	2:pi:205:MET:CG	2.51	0.41
2:pj:182:LEU:HG	2:pj:182:LEU:O	2.21	0.41
2:pl:30:THR:HG23	2:pl:298:LEU:HD13	2.02	0.41
1:po:63:VAL:HG22	1:po:75:LYS:N	2.35	0.41
1:pq:82:ASP:OD1	1:pq:83:GLY:N	2.52	0.41
2:pt:194:SER:O	2:pt:199:ASP:O	2.39	0.41
2:pv:280:VAL:HG22	2:pv:282:ARG:H	1.85	0.41
2:pw:66:LYS:HB2	2:px:84:VAL:HG12	2.02	0.41
2:pw:230:SER:O	2:pw:231:THR:HG22	2.20	0.41
2:pz:226:LEU:HA	2:pz:238:ASN:ND2	2.35	0.41
1:pB:98:LEU:O	2:pL:62:GLN:NE2	2.54	0.41
2:pK:79:LEU:HD11	2:pN:59:TRP:HA	2.02	0.41
2:pK:234:LEU:HG	2:pK:239:PHE:HB2	2.02	0.41
2:pL:228:ALA:O	2:pL:284:ALA:HB2	2.20	0.41
2:pN:182:LEU:O	2:pN:182:LEU:CD1	2.67	0.41
2:pN:226:LEU:HA	2:pN:238:ASN:ND2	2.35	0.41
2:pV:18:LYS:HA	2:pV:18:LYS:HD3	1.95	0.41
2:pV:98:VAL:O	2:pV:99:TYR:HB3	2.21	0.41
2:pV:303:LEU:H	2:pV:303:LEU:HD23	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pX:280:VAL:HG22	2:pX:282:ARG:H	1.85	0.41
2:pZ:123:LYS:HD3	2:pZ:303:LEU:HB2	2.02	0.41
3:qd:66:GLN:O	4:qn:10:GLN:CD	2.64	0.41
3:qh:84:TYR:CZ	6:qI:20:GLU:OE2	2.59	0.41
3:qh:136:TYR:O	3:qh:137:LEU:HG	2.19	0.41
4:qj:74:SER:HA	4:qk:5:THR:O	2.20	0.41
4:qk:13:ILE:HD11	4:qk:35:MET:SD	2.61	0.41
4:qm:27:ARG:NH2	4:qm:79:ASN:OD1	2.52	0.41
5:qp:304:THR:OG1	5:qp:326:VAL:HG21	2.20	0.41
5:qp:408:PRO:HG3	5:qL:393:GLU:O	2.21	0.41
6:qq:81:ILE:HG21	6:qM:17:LYS:HD2	2.03	0.41
5:qr:235:ARG:HG2	5:qr:255:VAL:HG13	2.01	0.41
5:qr:241:PRO:N	5:qt:268:GLU:OE2	2.51	0.41
5:qv:240:PRO:HA	5:qx:268:GLU:OE1	2.18	0.41
5:qv:248:LYS:HD3	6:qy:123:ASN:HA	1.53	0.41
5:qx:240:PRO:HA	5:qz:268:GLU:OE1	2.19	0.41
5:qx:385:PRO:O	5:qx:389:ASN:OD1	2.38	0.41
5:qD:304:THR:OG1	5:qD:326:VAL:HG21	2.20	0.41
5:qF:304:THR:OG1	5:qF:326:VAL:HG21	2.20	0.41
5:qH:16:GLN:HB3	5:qH:184:GLN:NE2	2.36	0.41
5:qH:385:PRO:O	5:qH:389:ASN:OD1	2.38	0.41
5:qJ:239:TYR:CZ	6:qM:123:ASN:HB3	2.52	0.41
6:qK:17:LYS:HD2	6:qM:81:ILE:HG21	2.03	0.41
5:qL:16:GLN:HB3	5:qL:184:GLN:NE2	2.36	0.41
1:ae:60:ARG:CB	1:ae:102:GLU:HB3	2.50	0.41
2:ah:63:ARG:HD2	2:oc:205:MET:CE	2.49	0.41
2:aj:221:PHE:CG	2:aj:242:VAL:HG13	2.56	0.41
2:aj:234:LEU:HG	2:aj:239:PHE:HB2	2.02	0.41
1:ao:64:GLU:OE1	1:ao:66:ARG:NH2	2.53	0.41
1:ao:82:ASP:OD1	1:ao:83:GLY:N	2.51	0.41
1:as:87:ASP:HB3	2:gt:5:THR:HG22	2.02	0.41
1:at:62:THR:HG21	1:at:97:PRO:HB3	2.03	0.41
1:at:96:ASP:HB3	1:at:97:PRO:CD	2.51	0.41
2:av:13:LYS:HB3	2:ax:43:ALA:HB3	2.02	0.41
2:av:100:GLY:N	2:av:101:PRO:CD	2.84	0.41
2:av:235:ASN:HD21	2:av:290:PRO:HD2	1.86	0.41
2:aw:221:PHE:CG	2:aw:242:VAL:HG13	2.56	0.41
2:ay:42:THR:HG22	2:ay:43:ALA:N	2.36	0.41
2:ay:233:GLU:OE1	2:ay:234:LEU:HD22	2.20	0.41
2:az:249:GLN:HB3	2:az:257:LEU:HD12	2.03	0.41
1:aB:65:ARG:HE	1:aB:96:ASP:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aC:99:LEU:CA	1:kK:102:GLU:CD	2.87	0.41
1:aC:103:ARG:H	2:hu:62:GLN:HG2	1.85	0.41
1:aF:63:VAL:HG13	1:aF:74:ASP:HB3	1.99	0.41
1:aG:60:ARG:HD2	1:aG:102:GLU:OE1	2.20	0.41
2:aJ:100:GLY:N	2:aJ:101:PRO:CD	2.84	0.41
2:aN:9:ILE:HD11	2:kb:98:VAL:HG21	2.02	0.41
2:aN:246:MET:HA	2:aN:249:GLN:HG2	2.00	0.41
2:aN:249:GLN:HB3	2:aN:257:LEU:HD12	2.02	0.41
1:aP:101:VAL:HG22	1:aP:102:GLU:N	2.35	0.41
1:aQ:91:GLU:HB2	2:jm:4:ILE:HG21	2.03	0.41
2:aV:194:SER:O	2:aV:199:ASP:O	2.39	0.41
2:aX:61:GLY:CA	1:iE:103:ARG:NE	2.83	0.41
2:aX:235:ASN:HD21	2:aX:290:PRO:HD2	1.86	0.41
2:bb:9:ILE:HD11	2:iJ:98:VAL:HG21	2.02	0.41
1:bi:62:THR:HG21	1:bi:97:PRO:HB3	2.03	0.41
2:bk:201:GLU:O	2:bk:202:GLN:C	2.62	0.41
2:bl:280:VAL:HG22	2:bl:282:ARG:H	1.85	0.41
2:bm:234:LEU:HG	2:bm:239:PHE:HB2	2.02	0.41
2:bo:42:THR:HG22	2:bo:43:ALA:N	2.36	0.41
2:bo:281:GLN:O	2:bo:289:ASN:N	2.53	0.41
2:bp:64:VAL:O	2:bp:64:VAL:HG23	2.19	0.41
2:bp:226:LEU:HD21	2:bp:273:LYS:HB3	2.03	0.41
2:bp:249:GLN:HB3	2:bp:257:LEU:HD12	2.03	0.41
1:bq:57:VAL:O	1:bq:79:GLY:O	2.38	0.41
2:bx:224:TRP:CE3	2:bx:226:LEU:HD12	2.55	0.41
2:by:191:SER:CB	2:bD:191:SER:HB3	2.50	0.41
2:bz:79:LEU:HG	2:bB:59:TRP:CD1	2.56	0.41
2:bM:280:VAL:HG22	2:bM:282:ARG:H	1.85	0.41
2:bN:83:THR:HG23	2:bN:205:MET:CG	2.51	0.41
2:bO:107:GLY:CA	2:bO:184:TYR:CZ	2.97	0.41
2:bO:228:ALA:O	2:bO:284:ALA:HB2	2.20	0.41
2:bQ:182:LEU:CD1	2:bQ:182:LEU:O	2.67	0.41
1:bS:60:ARG:O	1:bS:61:ALA:HB3	2.21	0.41
2:bY:229:MET:HB3	2:bY:234:LEU:HD22	2.01	0.41
2:bZ:82:SER:HB2	2:bZ:206:ALA:H	1.85	0.41
2:ca:61:GLY:CA	1:dm:103:ARG:NE	2.83	0.41
2:ca:79:LEU:HG	2:cc:59:TRP:CD1	2.56	0.41
2:cd:42:THR:HG22	2:cd:43:ALA:N	2.36	0.41
2:ce:228:ALA:HB3	2:ce:273:LYS:HE3	2.02	0.41
1:cf:94:GLU:CG	2:dr:2:ALA:N	2.82	0.41
2:cn:40:SER:HB3	2:cn:179:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cn:201:GLU:O	2:cn:202:GLN:C	2.62	0.41
2:co:79:LEU:HG	2:cq:59:TRP:CD1	2.56	0.41
2:cp:62:GLN:HG2	1:jf:103:ARG:H	1.85	0.41
1:cu:65:ARG:HE	1:cu:96:ASP:HB2	1.86	0.41
1:cy:87:ASP:HB3	2:nS:5:THR:HG22	2.02	0.41
2:cB:63:ARG:HD2	2:pg:205:MET:CE	2.49	0.41
2:cC:70:ALA:CB	2:nS:9:ILE:HD11	2.51	0.41
2:cD:62:GLN:HE21	1:dN:102:GLU:HG2	1.84	0.41
2:cE:182:LEU:HG	2:cE:182:LEU:O	2.21	0.41
1:cH:58:PHE:HB3	1:cH:101:VAL:HG13	2.02	0.41
2:cT:5:THR:HG22	1:pF:87:ASP:HB3	2.02	0.41
2:cU:64:VAL:O	2:cU:64:VAL:HG23	2.19	0.41
2:cU:144:TYR:HH	2:cU:254:GLY:H	1.67	0.41
2:dd:191:SER:CB	2:di:191:SER:HB3	2.50	0.41
2:de:61:GLY:CA	1:eE:103:ARG:NE	2.83	0.41
2:dh:263:LEU:HD23	2:dh:296:GLN:HE21	1.84	0.41
1:dm:98:LEU:O	1:hM:102:GLU:OE1	2.39	0.41
1:dp:62:THR:HG21	1:dp:97:PRO:HB3	2.03	0.41
2:dr:278:VAL:O	2:dr:278:VAL:HG23	2.19	0.41
2:du:9:ILE:O	2:du:9:ILE:CG2	2.68	0.41
2:du:30:THR:HG21	2:du:298:LEU:HD13	2.01	0.41
2:dv:77:ASN:ND2	2:dv:209:TYR:O	2.53	0.41
2:dW:106:MET:HE3	2:dW:206:ALA:HB3	2.02	0.41
1:dD:96:ASP:HB3	1:dD:97:PRO:CD	2.51	0.41
2:dF:197:LYS:NZ	1:pc:98:LEU:O	2.47	0.41
2:dF:205:MET:CE	2:pg:63:ARG:HD2	2.49	0.41
2:dF:219:VAL:O	2:dF:219:VAL:CG1	2.66	0.41
2:dH:93:ASP:O	2:pf:13:LYS:NZ	2.54	0.41
2:dH:221:PHE:CG	2:dH:242:VAL:HG13	2.56	0.41
2:dI:4:ILE:HG23	1:gw:90:LEU:HB3	2.02	0.41
2:dI:9:ILE:O	2:dI:9:ILE:CG2	2.68	0.41
1:dM:103:ARG:O	2:pN:62:GLN:HB3	2.20	0.41
1:dN:58:PHE:HB3	1:dN:101:VAL:HG21	2.03	0.41
1:dR:57:VAL:CG1	1:dR:59:VAL:HG13	2.50	0.41
2:dS:98:VAL:O	2:dS:99:TYR:HB3	2.21	0.41
2:dW:62:GLN:NE2	2:jR:197:LYS:NZ	2.68	0.41
2:dW:163:ALA:O	2:dW:264:LEU:HD12	2.21	0.41
2:dY:9:ILE:HD11	2:oS:98:VAL:HG21	2.02	0.41
2:eh:98:VAL:HG21	2:eA:9:ILE:HD11	2.02	0.41
2:ej:83:THR:HG23	2:ej:205:MET:CG	2.51	0.41
2:ek:182:LEU:HG	2:ek:182:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:el:9:ILE:HD11	2:mj:70:ALA:CB	2.51	0.41
1:eo:65:ARG:HE	1:eo:96:ASP:HB2	1.86	0.41
2:eA:227:ALA:HB1	2:eA:229:MET:SD	2.61	0.41
1:eC:102:GLU:OE1	1:ic:98:LEU:O	2.39	0.41
2:eI:303:LEU:H	2:eI:303:LEU:HD23	1.86	0.41
2:eL:230:SER:O	2:eL:231:THR:HG22	2.20	0.41
2:eN:9:ILE:HD11	2:gS:70:ALA:CB	2.51	0.41
2:eO:227:ALA:HB1	2:eO:229:MET:SD	2.61	0.41
2:eW:194:SER:O	2:eW:199:ASP:O	2.39	0.41
2:eY:208:GLU:OE1	2:eY:210:ARG:NE	2.53	0.41
1:ff:58:PHE:HB3	1:ff:101:VAL:HG21	2.03	0.41
1:fg:98:LEU:O	1:ia:102:GLU:OE1	2.39	0.41
1:fg:103:ARG:NE	2:nB:61:GLY:CA	2.83	0.41
1:fi:100:LYS:HB3	2:gF:197:LYS:HZ2	1.85	0.41
2:fl:63:ARG:HD2	2:gD:205:MET:CE	2.49	0.41
2:fl:75:ILE:HG21	2:fl:177:ARG:NH1	2.32	0.41
2:fl:219:VAL:O	2:fl:219:VAL:CG1	2.66	0.41
2:fm:61:GLY:CA	1:gy:103:ARG:NE	2.83	0.41
2:fo:161:ALA:N	2:fo:162:PRO:CD	2.84	0.41
2:fo:287:ALA:O	2:fo:288:ASP:CG	2.63	0.41
2:fq:64:VAL:O	2:fq:64:VAL:HG23	2.19	0.41
1:fr:94:GLU:CG	2:gD:2:ALA:N	2.83	0.41
2:fy:194:SER:O	2:fy:199:ASP:O	2.39	0.41
2:fz:8:LEU:HD12	2:fz:8:LEU:N	2.35	0.41
2:fB:62:GLN:HG2	1:nW:103:ARG:H	1.85	0.41
2:fE:226:LEU:HD21	2:fE:273:LYS:HB3	2.03	0.41
1:fG:102:GLU:OE1	1:ha:98:LEU:O	2.39	0.41
1:fK:100:LYS:HB3	2:lW:197:LYS:HZ2	1.85	0.41
2:fO:70:ALA:CB	2:kG:9:ILE:HD11	2.51	0.41
2:fP:90:ASP:O	2:ga:13:LYS:NZ	2.52	0.41
2:fr:42:THR:O	2:fr:179:LEU:HD11	2.21	0.41
2:fr:294:LEU:CD2	2:fr:295:VAL:HG23	2.40	0.41
1:fZ:60:ARG:HD2	1:fZ:102:GLU:OE1	2.20	0.41
1:fZ:96:ASP:HB3	1:fZ:97:PRO:CD	2.51	0.41
2:gb:75:ILE:HG21	2:gb:177:ARG:NH1	2.32	0.41
2:gc:208:GLU:OE1	2:gc:210:ARG:NE	2.53	0.41
2:gd:221:PHE:CG	2:gd:242:VAL:HG13	2.56	0.41
2:gd:230:SER:O	2:gd:231:THR:HG22	2.20	0.41
2:gf:42:THR:O	2:gf:179:LEU:HD11	2.21	0.41
2:gf:197:LYS:NZ	2:mz:62:GLN:NE2	2.68	0.41
2:gf:236:GLN:HA	2:gf:240:GLU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gp:191:SER:CB	2:gu:191:SER:HB3	2.50	0.41
2:gq:13:LYS:HB3	2:gs:43:ALA:HB3	2.02	0.41
2:gr:230:SER:O	2:gr:231:THR:HG22	2.20	0.41
2:gs:182:LEU:HG	2:gs:182:LEU:O	2.21	0.41
2:gt:42:THR:O	2:gt:179:LEU:HD11	2.21	0.41
2:gt:281:GLN:O	2:gt:289:ASN:N	2.53	0.41
2:gD:77:ASN:HD21	2:gD:179:LEU:HD11	1.84	0.41
2:gH:42:THR:HG22	2:gH:43:ALA:N	2.36	0.41
2:gH:200:ASP:N	2:gH:200:ASP:OD1	2.50	0.41
2:gI:232:GLU:HB3	2:gI:236:GLN:HG2	2.03	0.41
2:gR:82:SER:HB2	2:gR:206:ALA:H	1.85	0.41
2:gT:264:LEU:O	2:gT:297:VAL:HG23	2.21	0.41
2:gU:161:ALA:N	2:gU:162:PRO:CD	2.84	0.41
2:gW:273:LYS:HA	2:gW:273:LYS:HD2	1.93	0.41
1:gY:102:GLU:OE1	1:mr:98:LEU:O	2.39	0.41
2:he:224:TRP:CE3	2:he:226:LEU:HD12	2.55	0.41
2:hg:63:ARG:NH2	2:hj:207:ASP:OD1	2.53	0.41
2:hh:264:LEU:O	2:hh:297:VAL:HG23	2.21	0.41
2:hh:277:VAL:O	2:hh:289:ASN:ND2	2.48	0.41
2:hi:144:TYR:CG	2:hi:145:PRO:HD2	2.55	0.41
2:hk:251:ALA:HB2	2:hk:257:LEU:HD21	2.01	0.41
1:hr:57:VAL:CG1	1:hr:59:VAL:HG13	2.50	0.41
2:ht:70:ALA:HB2	2:jb:9:ILE:HD11	2.01	0.41
2:hu:148:ASP:OD1	2:hu:149:GLY:N	2.53	0.41
2:hx:249:GLN:HB3	2:hx:257:LEU:HD12	2.03	0.41
1:hz:102:GLU:OE1	1:kx:98:LEU:O	2.39	0.41
2:hF:225:GLN:O	2:hF:226:LEU:C	2.64	0.41
2:hG:224:TRP:CE2	2:hG:242:VAL:HG21	2.56	0.41
2:hI:4:ILE:HG23	1:IN:90:LEU:HB3	2.02	0.41
2:hK:221:PHE:HE2	2:hK:241:LYS:HE3	1.86	0.41
2:hK:227:ALA:HB1	2:hK:229:MET:SD	2.61	0.41
1:hR:62:THR:HG21	1:hR:97:PRO:HB3	2.03	0.41
2:hS:197:LYS:O	2:hS:198:GLU:CG	2.69	0.41
2:hT:82:SER:HB2	2:hT:206:ALA:H	1.85	0.41
2:hU:63:ARG:NH2	2:hX:207:ASP:OD1	2.53	0.41
2:hU:100:GLY:N	2:hU:101:PRO:CD	2.84	0.41
2:hU:235:ASN:HD21	2:hU:290:PRO:HD2	1.86	0.41
1:ia:60:ARG:O	1:ia:61:ALA:HB3	2.20	0.41
1:ia:98:LEU:O	2:ik:62:GLN:NE2	2.54	0.41
1:ib:58:PHE:HB3	1:ib:101:VAL:HG21	2.03	0.41
2:il:42:THR:HG22	2:il:43:ALA:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:im:144:TYR:HH	2:im:254:GLY:H	1.69	0.41
1:io:98:LEU:O	2:iy:62:GLN:NE2	2.54	0.41
1:is:100:LYS:CE	1:oj:100:LYS:CB	2.92	0.41
1:it:60:ARG:HD2	1:it:102:GLU:OE1	2.20	0.41
2:iw:4:ILE:HG21	1:pQ:91:GLU:HB2	2.03	0.41
2:iy:30:THR:HG21	2:iy:298:LEU:HD13	2.01	0.41
2:iz:9:ILE:HD11	2:or:70:ALA:CB	2.51	0.41
2:iz:42:THR:HG22	2:iz:43:ALA:N	2.36	0.41
2:iz:236:GLN:HA	2:iz:240:GLU:HB3	2.03	0.41
1:iB:65:ARG:HG2	1:iB:96:ASP:HB2	2.02	0.41
1:iG:60:ARG:CB	1:iG:102:GLU:HB3	2.50	0.41
2:iK:59:TRP:NE1	2:iK:63:ARG:HG3	2.35	0.41
2:iM:4:ILE:HG23	1:pn:90:LEU:HB3	2.02	0.41
2:iN:62:GLN:N	2:iN:62:GLN:CD	2.79	0.41
2:iO:182:LEU:O	2:iO:182:LEU:CD1	2.67	0.41
1:iQ:104:CYS:HA	2:kt:62:GLN:HE22	1.82	0.41
1:iV:60:ARG:HD2	1:iV:102:GLU:OE1	2.20	0.41
2:iW:194:SER:O	2:iW:199:ASP:O	2.39	0.41
2:iY:4:ILE:HG21	1:kj:91:GLU:HB2	2.03	0.41
2:iY:208:GLU:OE1	2:iY:210:ARG:NE	2.53	0.41
2:iZ:66:LYS:HB2	2:ja:84:VAL:HG12	2.02	0.41
2:ja:113:HIS:CE1	2:ja:117:LEU:HD11	2.54	0.41
2:ja:161:ALA:N	2:ja:162:PRO:CD	2.84	0.41
2:jb:42:THR:HG22	2:jb:43:ALA:N	2.36	0.41
1:jd:58:PHE:HB3	1:jd:101:VAL:HG13	2.02	0.41
2:jl:8:LEU:HD12	2:jl:8:LEU:N	2.35	0.41
2:jp:238:ASN:O	2:jp:242:VAL:CG2	2.62	0.41
2:jQ:122:LEU:HD23	2:jQ:122:LEU:C	2.45	0.41
2:jQ:226:LEU:HD21	2:jQ:273:LYS:HB3	2.03	0.41
1:jr:63:VAL:HG23	1:jr:78:GLN:H	1.84	0.41
1:js:98:LEU:O	2:jC:62:GLN:NE2	2.54	0.41
2:jz:77:ASN:HD21	2:jz:179:LEU:HD11	1.84	0.41
2:jA:61:GLY:HA2	1:kZ:103:ARG:NE	2.35	0.41
2:jB:144:TYR:HB3	2:jB:145:PRO:CD	2.50	0.41
2:jC:187:ARG:O	2:jC:187:ARG:CG	2.68	0.41
2:jE:228:ALA:HB3	2:jE:273:LYS:HE3	2.02	0.41
1:jK:57:VAL:HG22	1:jK:104:CYS:H	1.84	0.41
2:jN:192:PHE:HZ	2:jS:196:THR:HG21	1.83	0.41
2:jO:13:LYS:HB3	2:jQ:43:ALA:HB3	2.02	0.41
2:jO:197:LYS:CE	1:oN:99:LEU:HA	2.49	0.41
2:jO:224:TRP:CE2	2:jO:242:VAL:HG21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jQ:4:ILE:HG23	1:oj:90:LEU:HB3	2.02	0.41
2:jQ:161:ALA:N	2:jQ:162:PRO:CD	2.84	0.41
2:jR:77:ASN:ND2	2:jR:209:TYR:O	2.53	0.41
2:jS:245:ALA:O	2:jS:249:GLN:HG2	2.20	0.41
1:jY:60:ARG:CB	1:jY:102:GLU:HB3	2.50	0.41
2:kd:66:LYS:HB2	2:ke:84:VAL:HG12	2.02	0.41
2:kd:83:THR:HG23	2:kd:205:MET:CG	2.51	0.41
2:kf:42:THR:O	2:kf:179:LEU:HD11	2.21	0.41
1:kh:57:VAL:O	1:kh:79:GLY:O	2.38	0.41
2:ko:194:SER:O	2:ko:199:ASP:O	2.39	0.41
2:ko:238:ASN:O	2:ko:242:VAL:HG23	2.21	0.41
2:kr:163:ALA:O	2:kr:264:LEU:HD12	2.21	0.41
2:ks:42:THR:O	2:ks:179:LEU:HD11	2.21	0.41
2:ks:179:LEU:HD22	2:ks:209:TYR:HD2	1.86	0.41
1:kv:60:ARG:O	1:kv:61:ALA:HB3	2.21	0.41
2:kC:42:THR:HG22	2:kC:43:ALA:H	1.85	0.41
2:kD:235:ASN:HD21	2:kD:290:PRO:HD2	1.86	0.41
2:kE:90:ASP:O	2:kP:13:LYS:NZ	2.52	0.41
2:kG:281:GLN:O	2:kG:289:ASN:N	2.53	0.41
2:kH:226:LEU:HA	2:kH:238:ASN:ND2	2.35	0.41
1:kJ:60:ARG:O	1:kJ:61:ALA:HB3	2.21	0.41
1:kO:60:ARG:HD2	1:kO:102:GLU:OE1	2.20	0.41
2:kS:221:PHE:CG	2:kS:242:VAL:HG13	2.56	0.41
2:kT:161:ALA:N	2:kT:162:PRO:CD	2.84	0.41
1:kX:101:VAL:HG22	1:kX:102:GLU:N	2.35	0.41
1:kX:102:GLU:OE1	1:oz:98:LEU:O	2.39	0.41
2:le:42:THR:HG22	2:le:43:ALA:H	1.85	0.41
2:lg:79:LEU:HD11	2:lj:59:TRP:HA	2.02	0.41
2:lj:228:ALA:HB3	2:lj:273:LYS:HE3	2.02	0.41
2:lj:249:GLN:HB3	2:lj:257:LEU:HD12	2.03	0.41
2:ls:191:SER:CB	2:lx:191:SER:HB3	2.50	0.41
2:lt:208:GLU:OE1	2:lt:210:ARG:NE	2.53	0.41
2:lv:144:TYR:CG	2:lv:145:PRO:HD2	2.55	0.41
2:lv:287:ALA:O	2:lv:288:ASP:CG	2.64	0.41
1:lB:98:LEU:O	1:ox:102:GLU:OE1	2.39	0.41
2:lG:82:SER:HB2	2:lG:206:ALA:H	1.85	0.41
2:lH:63:ARG:NH2	2:lK:207:ASP:OD1	2.53	0.41
2:lK:179:LEU:HD22	2:lK:209:TYR:HD2	1.86	0.41
1:lN:60:ARG:O	1:lN:61:ALA:HB3	2.21	0.41
1:lS:57:VAL:CG1	1:lS:59:VAL:HG13	2.50	0.41
2:lU:191:SER:CB	2:lZ:191:SER:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IW:83:THR:HG23	2:IW:205:MET:CG	2.51	0.41
2:IW:235:ASN:O	2:IW:240:GLU:HB2	2.19	0.41
2:IX:228:ALA:O	2:IX:284:ALA:HB2	2.20	0.41
2:IY:62:GLN:CD	2:IY:62:GLN:N	2.79	0.41
1:md:103:ARG:NE	2:mx:61:GLY:CA	2.83	0.41
2:mi:40:SER:HB3	2:mi:179:LEU:HD13	2.03	0.41
2:mi:42:THR:HG22	2:mi:43:ALA:H	1.85	0.41
2:mj:235:ASN:HD21	2:mj:290:PRO:HD2	1.86	0.41
2:mk:83:THR:HG23	2:mk:205:MET:CG	2.50	0.41
2:mm:77:ASN:ND2	2:mm:209:TYR:O	2.53	0.41
2:mn:185:GLN:O	2:mn:205:MET:N	2.43	0.41
2:my:221:PHE:CG	2:my:242:VAL:HG13	2.56	0.41
2:mB:209:TYR:OH	2:oD:93:ASP:OD2	2.22	0.41
1:mI:62:THR:HG21	1:mI:97:PRO:HB3	2.03	0.41
2:mK:44:SER:OG	2:mK:75:ILE:O	2.21	0.41
2:mN:161:ALA:N	2:mN:162:PRO:CD	2.84	0.41
2:mP:227:ALA:HB1	2:mP:229:MET:SD	2.61	0.41
2:mY:40:SER:HB3	2:mY:179:LEU:HD13	2.03	0.41
2:mZ:235:ASN:HD21	2:mZ:290:PRO:HD2	1.86	0.41
2:nb:9:ILE:O	2:nb:9:ILE:CG2	2.68	0.41
2:nd:122:LEU:HD23	2:nd:122:LEU:C	2.45	0.41
1:nf:98:LEU:O	2:np:62:GLN:NE2	2.54	0.41
1:nk:57:VAL:CG1	1:nk:59:VAL:HG13	2.50	0.41
2:nn:59:TRP:NE1	2:nn:63:ARG:HG3	2.35	0.41
2:np:161:ALA:N	2:np:162:PRO:CD	2.84	0.41
2:nq:42:THR:O	2:nq:179:LEU:HD11	2.21	0.41
2:nq:281:GLN:O	2:nq:289:ASN:N	2.53	0.41
2:nr:221:PHE:HD2	2:nr:224:TRP:HE1	1.69	0.41
2:nr:273:LYS:HA	2:nr:273:LYS:HD2	1.93	0.41
2:nC:3:ILE:HD13	2:nC:9:ILE:HD13	2.03	0.41
2:nD:144:TYR:CG	2:nD:145:PRO:HD2	2.55	0.41
2:nF:249:GLN:HB3	2:nF:257:LEU:HD12	2.03	0.41
2:nF:251:ALA:HB2	2:nF:257:LEU:HD21	2.01	0.41
1:nG:57:VAL:O	1:nG:79:GLY:O	2.38	0.41
1:nH:60:ARG:HG2	1:pb:99:LEU:HD22	2.01	0.41
2:nQ:66:LYS:HB2	2:nR:84:VAL:HG12	2.02	0.41
2:nQ:83:THR:HG23	2:nQ:205:MET:CG	2.51	0.41
2:nT:221:PHE:HE2	2:nT:241:LYS:HE3	1.86	0.41
2:oc:141:HIS:HB3	2:oc:143:VAL:HG23	2.01	0.41
2:od:59:TRP:NE1	2:od:63:ARG:HG3	2.35	0.41
2:oe:144:TYR:HB3	2:oe:145:PRO:CD	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:og:42:THR:HG22	2:og:43:ALA:N	2.36	0.41
2:oh:221:PHE:HD2	2:oh:224:TRP:HE1	1.69	0.41
2:oh:228:ALA:HB3	2:oh:273:LYS:HE3	2.02	0.41
1:oi:57:VAL:O	1:oi:79:GLY:O	2.38	0.41
1:oo:57:VAL:CG1	1:oo:59:VAL:HG13	2.50	0.41
2:op:98:VAL:O	2:op:99:TYR:HB3	2.21	0.41
2:op:182:LEU:H	2:op:182:LEU:HD23	1.85	0.41
2:or:224:TRP:CE2	2:or:242:VAL:HG21	2.56	0.41
2:ot:187:ARG:O	2:ot:187:ARG:CG	2.68	0.41
2:ou:42:THR:HG22	2:ou:43:ALA:N	2.36	0.41
2:ou:281:GLN:O	2:ou:289:ASN:N	2.53	0.41
2:ov:232:GLU:HB3	2:ov:236:GLN:HG2	2.03	0.41
2:oG:144:TYR:HB3	2:oG:145:PRO:CD	2.49	0.41
2:oI:77:ASN:ND2	2:oI:209:TYR:O	2.53	0.41
2:oJ:228:ALA:HB3	2:oJ:273:LYS:HE3	2.02	0.41
2:oR:225:GLN:O	2:oR:226:LEU:C	2.64	0.41
2:oT:280:VAL:HG22	2:oT:282:ARG:H	1.85	0.41
2:oW:42:THR:HG22	2:oW:43:ALA:N	2.36	0.41
1:oZ:65:ARG:HE	1:oZ:96:ASP:HB2	1.86	0.41
2:ph:100:GLY:N	2:ph:101:PRO:CD	2.84	0.41
2:pj:144:TYR:CG	2:pj:145:PRO:HD2	2.55	0.41
2:pk:179:LEU:HD22	2:pk:209:TYR:HD2	1.86	0.41
2:pl:226:LEU:HA	2:pl:238:ASN:ND2	2.35	0.41
1:pn:60:ARG:O	1:pn:61:ALA:HB3	2.21	0.41
2:pt:238:ASN:O	2:pt:242:VAL:HG23	2.21	0.41
2:pu:8:LEU:HD12	2:pu:8:LEU:N	2.35	0.41
2:px:182:LEU:HG	2:px:182:LEU:O	2.21	0.41
2:pz:122:LEU:HD23	2:pz:122:LEU:C	2.45	0.41
2:pH:194:SER:O	2:pH:199:ASP:O	2.39	0.41
2:pH:224:TRP:CE3	2:pH:226:LEU:HD12	2.55	0.41
2:pI:201:GLU:O	2:pI:202:GLN:C	2.62	0.41
2:pJ:79:LEU:HG	2:pL:59:TRP:CD1	2.56	0.41
2:pK:83:THR:HG23	2:pK:205:MET:CG	2.51	0.41
2:pL:277:VAL:HG12	2:pL:278:VAL:HG13	2.03	0.41
2:pL:280:VAL:O	2:pL:289:ASN:ND2	2.54	0.41
2:pN:221:PHE:HD2	2:pN:224:TRP:HE1	1.69	0.41
1:pP:60:ARG:O	1:pP:61:ALA:HB3	2.21	0.41
2:pY:144:TYR:HB3	2:pY:145:PRO:CD	2.50	0.41
2:pZ:182:LEU:HG	2:pZ:182:LEU:O	2.21	0.41
3:qe:66:GLN:C	4:qm:10:GLN:CG	2.93	0.41
3:qg:64:GLY:C	4:qj:220:SER:O	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:qk:74:SER:HA	4:ql:5:THR:O	2.20	0.41
6:qq:123:ASN:HA	5:qL:248:LYS:HD3	1.53	0.41
5:qt:240:PRO:HA	5:qv:268:GLU:OE1	2.19	0.41
5:qx:380:MET:HE3	5:qx:380:MET:HB3	1.91	0.41
5:qH:252:LEU:HD23	6:qK:126:GLN:HG3	2.00	0.41
5:qJ:85:ILE:HD13	5:qJ:331:LEU:HD12	2.02	0.41
1:ac:98:LEU:O	1:mD:102:GLU:OE1	2.39	0.41
2:ah:42:THR:HG22	2:ah:43:ALA:H	1.85	0.41
2:ai:13:LYS:HB3	2:ak:43:ALA:HB3	2.02	0.41
2:ak:123:LYS:HD3	2:ak:303:LEU:HB2	2.02	0.41
2:am:64:VAL:O	2:am:64:VAL:HG23	2.19	0.41
2:au:194:SER:O	2:au:199:ASP:O	2.39	0.41
2:av:61:GLY:HA2	1:bH:103:ARG:NE	2.35	0.41
2:av:208:GLU:OE1	2:av:210:ARG:NE	2.53	0.41
2:aw:264:LEU:O	2:aw:297:VAL:HG23	2.21	0.41
2:ax:123:LYS:HD3	2:ax:303:LEU:HB2	2.02	0.41
2:ax:163:ALA:O	2:ax:264:LEU:HD12	2.21	0.41
1:aD:103:ARG:NE	2:iY:61:GLY:CA	2.83	0.41
1:aG:99:LEU:HD23	1:kh:102:GLU:CG	2.18	0.41
2:aJ:235:ASN:HD21	2:aJ:290:PRO:HD2	1.86	0.41
2:aK:197:LYS:HZ2	1:iU:100:LYS:HB3	1.85	0.41
2:aK:234:LEU:HG	2:aK:239:PHE:HB2	2.02	0.41
2:aM:9:ILE:HD11	2:mZ:70:ALA:HB2	2.01	0.41
2:aM:42:THR:HG22	2:aM:43:ALA:N	2.36	0.41
1:aP:90:LEU:HB3	2:cq:4:ILE:HG23	2.02	0.41
1:aT:87:ASP:HB3	2:py:5:THR:HG22	2.02	0.41
1:aU:57:VAL:CG1	1:aU:59:VAL:HG13	2.50	0.41
2:aV:238:ASN:O	2:aV:242:VAL:HG23	2.21	0.41
2:aV:303:LEU:H	2:aV:303:LEU:HD23	1.85	0.41
2:aX:79:LEU:HG	2:aZ:59:TRP:CD1	2.56	0.41
2:aX:100:GLY:N	2:aX:101:PRO:CD	2.84	0.41
2:aY:62:GLN:HG2	1:ch:103:ARG:H	1.85	0.41
2:aY:83:THR:HG23	2:aY:205:MET:CG	2.51	0.41
2:aY:221:PHE:CG	2:aY:242:VAL:HG13	2.56	0.41
2:ba:5:THR:HG22	1:pr:87:ASP:HB3	2.02	0.41
2:bb:226:LEU:HD21	2:bb:273:LYS:HB3	2.03	0.41
1:bd:65:ARG:HE	1:bd:96:ASP:HB2	1.86	0.41
1:bh:60:ARG:CB	1:bh:102:GLU:HB3	2.50	0.41
2:bj:194:SER:O	2:bj:199:ASP:O	2.39	0.41
2:bl:224:TRP:CE2	2:bl:242:VAL:HG21	2.56	0.41
2:bo:9:ILE:HD11	2:jm:70:ALA:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:br:65:ARG:HE	1:br:96:ASP:HB2	1.86	0.41
1:bw:60:ARG:HD2	1:bw:102:GLU:OE1	2.20	0.41
2:bx:141:HIS:N	2:bx:148:ASP:O	2.54	0.41
2:bD:239:PHE:CZ	2:bD:294:LEU:HD22	2.56	0.41
1:bG:58:PHE:HB3	1:bG:101:VAL:HG21	2.03	0.41
1:bK:60:ARG:HD2	1:bK:102:GLU:OE1	2.20	0.41
2:bL:303:LEU:HD23	2:bL:303:LEU:H	1.85	0.41
2:bM:61:GLY:CA	1:hB:103:ARG:NE	2.83	0.41
2:bM:235:ASN:HD21	2:bM:290:PRO:HD2	1.86	0.41
2:bN:221:PHE:CG	2:bN:242:VAL:HG13	2.56	0.41
2:bO:161:ALA:N	2:bO:162:PRO:CD	2.84	0.41
2:bO:163:ALA:O	2:bO:264:LEU:HD12	2.21	0.41
2:bP:233:GLU:OE1	2:bP:234:LEU:HD22	2.20	0.41
1:bS:64:GLU:OE1	1:bS:66:ARG:NH2	2.53	0.41
2:ca:100:GLY:N	2:ca:101:PRO:CD	2.84	0.41
2:ca:224:TRP:CE2	2:ca:242:VAL:HG21	2.56	0.41
2:cb:230:SER:O	2:cb:231:THR:HG22	2.20	0.41
2:cd:62:GLN:CD	2:cd:62:GLN:N	2.79	0.41
2:ce:232:GLU:HB3	2:ce:236:GLN:HG2	2.03	0.41
1:cg:60:ARG:O	1:cg:61:ALA:HB3	2.21	0.41
2:cn:191:SER:CB	2:cs:191:SER:HB3	2.50	0.41
2:co:61:GLY:CA	1:iq:103:ARG:NE	2.83	0.41
2:co:70:ALA:CB	2:lw:9:ILE:HD11	2.51	0.41
2:cq:287:ALA:O	2:cq:288:ASP:CG	2.64	0.41
2:cr:62:GLN:CD	2:cr:62:GLN:N	2.79	0.41
2:cr:200:ASP:OD1	2:cr:200:ASP:N	2.50	0.41
1:ct:100:LYS:HD3	1:ps:100:LYS:HZ1	1.83	0.41
1:cw:98:LEU:O	1:pB:102:GLU:OE1	2.39	0.41
2:cA:13:LYS:NZ	2:pi:93:ASP:O	2.54	0.41
2:cA:197:LYS:O	2:cA:198:GLU:CG	2.69	0.41
2:cB:8:LEU:HD12	2:cB:8:LEU:N	2.35	0.41
2:cC:4:ILE:HG21	1:dN:91:GLU:HB2	2.03	0.41
2:cD:62:GLN:HG2	1:dN:103:ARG:H	1.85	0.41
2:cE:187:ARG:O	2:cE:187:ARG:CG	2.68	0.41
2:cF:9:ILE:HD11	2:nP:70:ALA:CB	2.51	0.41
2:cF:42:THR:O	2:cF:179:LEU:HD11	2.21	0.41
2:cG:232:GLU:HB3	2:cG:236:GLN:HG2	2.03	0.41
2:cG:273:LYS:HA	2:cG:273:LYS:HD2	1.93	0.41
1:cI:101:VAL:HG22	1:cI:102:GLU:N	2.35	0.41
2:cQ:53:PHE:O	2:cQ:255:ARG:NH2	2.43	0.41
2:cQ:100:GLY:N	2:cQ:101:PRO:CD	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cR:230:SER:O	2:cR:231:THR:HG22	2.20	0.41
2:cS:161:ALA:N	2:cS:162:PRO:CD	2.84	0.41
1:cW:98:LEU:O	2:dg:62:GLN:NE2	2.54	0.41
1:cW:102:GLU:OE1	1:gy:98:LEU:O	2.39	0.41
2:dg:9:ILE:O	2:dg:9:ILE:CG2	2.68	0.41
2:dg:163:ALA:O	2:dg:264:LEU:HD12	2.21	0.41
2:dh:236:GLN:HA	2:dh:240:GLU:HB3	2.03	0.41
2:di:221:PHE:HD2	2:di:224:TRP:HE1	1.68	0.41
1:dl:58:PHE:HB3	1:dl:101:VAL:HG21	2.03	0.41
2:ds:224:TRP:CE2	2:ds:242:VAL:HG21	2.56	0.41
2:dt:230:SER:O	2:dt:231:THR:HG22	2.20	0.41
2:du:4:ILE:HG23	1:hM:90:LEU:HB3	2.02	0.41
1:dx:58:PHE:HB3	1:dx:101:VAL:HG13	2.02	0.41
1:dx:65:ARG:HG2	1:dx:96:ASP:CB	2.51	0.41
1:dy:98:LEU:O	2:dI:62:GLN:NE2	2.54	0.41
1:dA:98:LEU:O	1:gw:102:GLU:OE1	2.39	0.41
2:dE:98:VAL:O	2:dE:99:TYR:HB3	2.21	0.41
2:dG:79:LEU:HG	2:dI:59:TRP:CD1	2.56	0.41
2:dI:277:VAL:HG12	2:dI:278:VAL:HG13	2.03	0.41
2:dJ:179:LEU:HD22	2:dJ:209:TYR:HD2	1.86	0.41
2:dK:106:MET:HE3	2:dK:206:ALA:HB3	2.02	0.41
1:dM:90:LEU:HB3	2:pL:4:ILE:HG23	2.02	0.41
1:dR:96:ASP:HB3	1:dR:97:PRO:CD	2.51	0.41
2:dS:194:SER:O	2:dS:199:ASP:O	2.39	0.41
2:dU:70:ALA:CB	2:jR:9:ILE:HD11	2.51	0.41
2:dU:208:GLU:OE1	2:dU:210:ARG:NE	2.53	0.41
2:dV:234:LEU:HG	2:dV:239:PHE:HB2	2.02	0.41
2:dX:9:ILE:HD11	2:jO:70:ALA:CB	2.51	0.41
2:dX:236:GLN:HA	2:dX:240:GLU:HB3	2.03	0.41
1:ef:62:THR:HG21	1:ef:97:PRO:HB3	2.03	0.41
2:ei:70:ALA:CB	2:mm:9:ILE:HD11	2.51	0.41
2:ej:197:LYS:HZ2	1:es:100:LYS:HB3	1.85	0.41
2:el:42:THR:O	2:el:179:LEU:HD11	2.21	0.41
2:em:182:LEU:O	2:em:182:LEU:CD1	2.67	0.41
2:em:227:ALA:HB1	2:em:229:MET:SD	2.61	0.41
1:en:57:VAL:O	1:en:79:GLY:O	2.38	0.41
2:eu:141:HIS:N	2:eu:148:ASP:O	2.54	0.41
2:ev:8:LEU:HD12	2:ev:8:LEU:N	2.35	0.41
2:ex:62:GLN:HE21	1:nI:102:GLU:HG2	1.84	0.41
2:ex:221:PHE:CG	2:ex:242:VAL:HG13	2.56	0.41
2:ey:182:LEU:HG	2:ey:182:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ey:277:VAL:HG12	2:ey:278:VAL:HG13	2.03	0.41
2:ez:233:GLU:OE1	2:ez:234:LEU:HD22	2.20	0.41
2:eA:30:THR:HG23	2:eA:298:LEU:HD13	2.02	0.41
1:eB:65:ARG:HG2	1:eB:96:ASP:CB	2.51	0.41
2:eK:4:ILE:HG21	1:ib:91:GLU:HB2	2.03	0.41
1:eP:57:VAL:O	1:eP:79:GLY:O	2.38	0.41
2:eW:98:VAL:O	2:eW:99:TYR:HB3	2.21	0.41
2:eW:224:TRP:CE3	2:eW:226:LEU:HD12	2.55	0.41
2:eW:238:ASN:O	2:eW:242:VAL:HG23	2.21	0.41
2:eZ:221:PHE:CG	2:eZ:242:VAL:HG13	2.56	0.41
2:fa:9:ILE:O	2:fa:9:ILE:CG2	2.68	0.41
2:fc:221:PHE:HD2	2:fc:224:TRP:HE1	1.69	0.41
1:fd:65:ARG:HG2	1:fd:96:ASP:CB	2.51	0.41
2:fn:93:ASP:O	2:nz:13:LYS:NZ	2.54	0.41
2:fo:9:ILE:O	2:fo:9:ILE:CG2	2.68	0.41
2:fo:182:LEU:HG	2:fo:182:LEU:O	2.21	0.41
2:fq:226:LEU:HA	2:fq:238:ASN:ND2	2.35	0.41
2:fq:232:GLU:HB3	2:fq:236:GLN:HG2	2.03	0.41
1:fs:60:ARG:O	1:fs:61:ALA:HB3	2.21	0.41
1:fs:64:GLU:OE1	1:fs:66:ARG:NH2	2.53	0.41
2:fC:182:LEU:HG	2:fC:182:LEU:O	2.21	0.41
2:fD:144:TYR:HB3	2:fD:145:PRO:HD3	2.01	0.41
2:fE:122:LEU:C	2:fE:122:LEU:HD23	2.45	0.41
2:fE:227:ALA:HB1	2:fE:229:MET:SD	2.61	0.41
1:fG:101:VAL:HG22	1:fG:102:GLU:N	2.35	0.41
1:fH:58:PHE:HB3	1:fH:101:VAL:HG21	2.03	0.41
2:fN:98:VAL:HG21	2:gg:9:ILE:HD11	2.02	0.41
2:fO:59:TRP:NE1	2:fO:63:ARG:HG3	2.35	0.41
2:fQ:182:LEU:HG	2:fQ:182:LEU:O	2.21	0.41
2:fR:62:GLN:N	2:fR:62:GLN:CD	2.79	0.41
2:fR:77:ASN:ND2	2:fR:209:TYR:O	2.53	0.41
2:fS:30:THR:HG23	2:fS:298:LEU:HD13	2.02	0.41
1:fW:98:LEU:O	1:nt:102:GLU:OE1	2.39	0.41
1:fW:99:LEU:HA	2:nB:197:LYS:CE	2.49	0.41
2:gd:3:ILE:HD13	2:gd:9:ILE:HD13	2.03	0.41
2:gd:264:LEU:O	2:gd:297:VAL:HG23	2.21	0.41
2:gf:281:GLN:O	2:gf:289:ASN:N	2.53	0.41
1:gi:98:LEU:O	2:gs:62:GLN:NE2	2.54	0.41
1:gj:102:GLU:HG2	2:gT:62:GLN:HE21	1.84	0.41
2:go:219:VAL:O	2:go:219:VAL:HG22	2.21	0.41
2:gp:213:VAL:HG12	2:gp:214:ARG:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gq:59:TRP:NE1	2:gq:63:ARG:HG3	2.35	0.41
2:gr:83:THR:HG23	2:gr:205:MET:CG	2.50	0.41
2:gr:235:ASN:O	2:gr:240:GLU:HB2	2.19	0.41
2:gs:161:ALA:N	2:gs:162:PRO:CD	2.84	0.41
2:gu:221:PHE:HD2	2:gu:224:TRP:HE1	1.69	0.41
1:gw:65:ARG:HE	1:gw:96:ASP:HB2	1.86	0.41
1:gw:98:LEU:O	2:gG:62:GLN:NE2	2.54	0.41
2:gD:201:GLU:O	2:gD:202:GLN:C	2.62	0.41
2:gE:224:TRP:CE2	2:gE:242:VAL:HG21	2.56	0.41
2:gH:42:THR:O	2:gH:179:LEU:HD11	2.21	0.41
1:gJ:65:ARG:HG2	1:gJ:96:ASP:HB2	2.02	0.41
1:gL:63:VAL:HG22	1:gL:75:LYS:N	2.35	0.41
2:gR:191:SER:CB	2:gW:191:SER:HB3	2.50	0.41
2:gT:221:PHE:CG	2:gT:242:VAL:HG13	2.56	0.41
2:gT:230:SER:O	2:gT:231:THR:HG22	2.20	0.41
2:gV:62:GLN:CD	2:gV:62:GLN:N	2.79	0.41
2:gW:227:ALA:HB1	2:gW:229:MET:SD	2.61	0.41
2:hg:224:TRP:CE2	2:hg:242:VAL:HG21	2.56	0.41
2:hh:90:ASP:O	2:kB:13:LYS:NZ	2.52	0.41
2:hi:20:PHE:N	2:hi:20:PHE:CD1	2.87	0.41
2:hj:233:GLU:OE1	2:hj:234:LEU:HD22	2.20	0.41
2:hk:106:MET:HE3	2:hk:206:ALA:HB3	2.02	0.41
2:hk:221:PHE:HD2	2:hk:224:TRP:HE1	1.69	0.41
1:hm:60:ARG:O	1:hm:61:ALA:HB3	2.21	0.41
1:hq:86:SER:O	1:hq:90:LEU:N	2.51	0.41
1:hq:87:ASP:HB3	2:jb:5:THR:HG22	2.02	0.41
2:hs:98:VAL:O	2:hs:99:TYR:HB3	2.21	0.41
2:hu:83:THR:HG23	2:hu:205:MET:CG	2.51	0.41
2:hu:277:VAL:O	2:hu:289:ASN:ND2	2.48	0.41
2:hw:5:THR:HG22	1:iU:87:ASP:HB3	2.02	0.41
2:hw:9:ILE:HD11	2:iY:70:ALA:CB	2.51	0.41
2:hw:42:THR:O	2:hw:179:LEU:HD11	2.21	0.41
2:hw:62:GLN:CD	2:hw:62:GLN:N	2.79	0.41
2:hx:227:ALA:HB1	2:hx:229:MET:SD	2.61	0.41
2:hx:245:ALA:O	2:hx:249:GLN:HG2	2.20	0.41
1:hz:60:ARG:O	1:hz:61:ALA:HB3	2.21	0.41
1:hB:98:LEU:O	1:IN:102:GLU:OE1	2.39	0.41
2:hF:36:THR:HB	5:qv:176:ASN:O	2.21	0.41
2:hI:161:ALA:N	2:hI:162:PRO:CD	2.84	0.41
2:hK:221:PHE:HD2	2:hK:224:TRP:HE1	1.69	0.41
2:hT:201:GLU:O	2:hT:202:GLN:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hU:63:ARG:HE	2:hX:205:MET:CE	2.30	0.41
2:hV:79:LEU:HD11	2:hY:59:TRP:HA	2.02	0.41
2:hX:42:THR:HG22	2:hX:43:ALA:N	2.36	0.41
2:ij:277:VAL:O	2:ij:289:ASN:ND2	2.48	0.41
2:ik:161:ALA:N	2:ik:162:PRO:CD	2.84	0.41
2:ik:182:LEU:O	2:ik:182:LEU:HG	2.21	0.41
2:il:42:THR:O	2:il:179:LEU:HD11	2.21	0.41
1:in:65:ARG:HG2	1:in:96:ASP:HB2	2.02	0.41
1:iq:98:LEU:O	1:il:102:GLU:OE1	2.39	0.41
2:iu:238:ASN:O	2:iu:242:VAL:HG23	2.21	0.41
2:iy:20:PHE:CD1	2:iy:20:PHE:N	2.87	0.41
2:iy:287:ALA:O	2:iy:288:ASP:CG	2.63	0.41
2:iA:106:MET:HE3	2:iA:206:ALA:HB3	2.02	0.41
2:iJ:141:HIS:HB3	2:iJ:143:VAL:HG23	2.01	0.41
2:iM:20:PHE:N	2:iM:20:PHE:CD1	2.87	0.41
2:iM:161:ALA:N	2:iM:162:PRO:CD	2.84	0.41
2:iN:42:THR:HG22	2:iN:43:ALA:N	2.36	0.41
2:iO:232:GLU:HB3	2:iO:236:GLN:HG2	2.03	0.41
1:iQ:98:LEU:O	2:ja:62:GLN:NE2	2.54	0.41
2:iW:197:LYS:O	2:iW:198:GLU:CG	2.69	0.41
2:iX:8:LEU:N	2:iX:8:LEU:HD12	2.35	0.41
2:iZ:3:ILE:HD13	2:iZ:9:ILE:HD13	2.03	0.41
2:iZ:79:LEU:HD11	2:jc:59:TRP:HA	2.02	0.41
2:jb:248:ASN:OD1	2:jb:248:ASN:O	2.38	0.41
2:jc:227:ALA:HB1	2:jc:229:MET:SD	2.61	0.41
2:jc:264:LEU:HB2	2:jc:295:VAL:HG11	2.02	0.41
1:jd:100:LYS:HD3	1:jj:100:LYS:HZ1	1.84	0.41
2:jl:82:SER:HB2	2:jl:206:ALA:H	1.85	0.41
2:jm:100:GLY:N	2:jm:101:PRO:CD	2.84	0.41
2:jo:161:ALA:N	2:jo:162:PRO:CD	2.84	0.41
2:jp:42:THR:HG22	2:jp:43:ALA:N	2.36	0.41
2:jq:243:TYR:CD1	2:jq:294:LEU:HD21	2.56	0.41
2:jq:264:LEU:HB2	2:jq:295:VAL:HG11	2.02	0.41
2:jy:13:LYS:NZ	2:lg:90:ASP:O	2.52	0.41
2:jy:98:VAL:O	2:jy:99:TYR:HB3	2.21	0.41
2:jy:238:ASN:O	2:jy:242:VAL:HG23	2.21	0.41
2:jB:3:ILE:HD13	2:jB:9:ILE:HD13	2.03	0.41
2:jB:264:LEU:O	2:jB:297:VAL:HG23	2.21	0.41
2:jD:236:GLN:HA	2:jD:240:GLU:HB3	2.03	0.41
1:jF:57:VAL:O	1:jF:79:GLY:O	2.38	0.41
1:jI:99:LEU:HD22	1:oj:60:ARG:HG2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jM:197:LYS:O	2:jM:198:GLU:CG	2.69	0.41
2:jN:191:SER:CB	2:jS:191:SER:HB3	2.50	0.41
2:jO:4:ILE:HG21	1:oM:91:GLU:HB2	2.03	0.41
2:jO:61:GLY:CA	1:pD:103:ARG:NE	2.83	0.41
2:jP:230:SER:O	2:jP:231:THR:HG22	2.20	0.41
2:jS:122:LEU:HD23	2:jS:122:LEU:C	2.45	0.41
1:jZ:96:ASP:HB3	1:jZ:97:PRO:CD	2.51	0.41
2:ka:3:ILE:HD11	2:lu:99:TYR:CE1	2.56	0.41
2:ka:13:LYS:NZ	2:lu:93:ASP:O	2.54	0.41
2:ka:238:ASN:O	2:ka:242:VAL:HG23	2.21	0.41
2:kc:280:VAL:HG22	2:kc:282:ARG:H	1.85	0.41
2:ke:187:ARG:O	2:ke:187:ARG:CG	2.68	0.41
2:kg:228:ALA:HB3	2:kg:273:LYS:HE3	2.02	0.41
1:ki:65:ARG:HE	1:ki:96:ASP:HB2	1.86	0.41
1:km:63:VAL:HG13	1:km:74:ASP:HB2	2.03	0.41
1:kn:96:ASP:HB3	1:kn:97:PRO:CD	2.51	0.41
2:ko:98:VAL:O	2:ko:99:TYR:HB3	2.21	0.41
2:kp:100:GLY:N	2:kp:101:PRO:CD	2.84	0.41
2:kp:235:ASN:HD21	2:kp:290:PRO:HD2	1.86	0.41
2:kq:144:TYR:HB3	2:kq:145:PRO:CD	2.50	0.41
1:kv:103:ARG:O	2:lZ:62:GLN:HB3	2.20	0.41
2:kD:59:TRP:NE1	2:kD:63:ARG:HG3	2.35	0.41
2:kE:3:ILE:HD13	2:kE:9:ILE:HD13	2.03	0.41
2:kE:221:PHE:CG	2:kE:242:VAL:HG13	2.56	0.41
2:kG:233:GLU:OE1	2:kG:234:LEU:HD22	2.20	0.41
2:kH:227:ALA:HB1	2:kH:229:MET:SD	2.61	0.41
2:kP:229:MET:HB3	2:kP:234:LEU:HD22	2.01	0.41
2:kP:238:ASN:O	2:kP:242:VAL:HG23	2.21	0.41
2:kS:79:LEU:HD11	2:kV:59:TRP:HA	2.02	0.41
2:kT:20:PHE:N	2:kT:20:PHE:CD1	2.87	0.41
2:kV:243:TYR:CD1	2:kV:294:LEU:HD21	2.56	0.41
2:ld:225:GLN:O	2:ld:226:LEU:C	2.64	0.41
2:le:213:VAL:HG12	2:le:214:ARG:O	2.20	0.41
2:lg:144:TYR:HB3	2:lg:145:PRO:CD	2.49	0.41
2:li:179:LEU:HD22	2:li:209:TYR:HD2	1.86	0.41
2:li:200:ASP:OD1	2:li:200:ASP:N	2.50	0.41
2:lr:141:HIS:N	2:lr:148:ASP:O	2.54	0.41
2:lr:225:GLN:O	2:lr:226:LEU:C	2.64	0.41
2:lt:224:TRP:CE2	2:lt:242:VAL:HG21	2.56	0.41
2:lx:64:VAL:O	2:lx:64:VAL:HG23	2.19	0.41
1:lz:98:LEU:O	2:IJ:62:GLN:NE2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:58:PHE:HB3	1:1A:101:VAL:HG21	2.03	0.41
2:1G:42:THR:HG22	2:1G:43:ALA:H	1.85	0.41
2:1G:44:SER:OG	2:1G:75:ILE:O	2.21	0.41
2:1L:226:LEU:HD21	2:1L:273:LYS:HB3	2.02	0.41
1:1O:63:VAL:HG22	1:1O:75:LYS:N	2.35	0.41
2:1V:59:TRP:NE1	2:1V:63:ARG:HG3	2.35	0.41
2:1V:63:ARG:NH2	2:1Y:207:ASP:OD1	2.53	0.41
2:1V:100:GLY:N	2:1V:101:PRO:CD	2.84	0.41
2:1W:66:LYS:HB2	2:1X:84:VAL:HG12	2.02	0.41
2:1X:182:LEU:HG	2:1X:182:LEU:O	2.21	0.41
2:1Y:77:ASN:ND2	2:1Y:209:TYR:O	2.53	0.41
2:1Y:144:TYR:HB3	2:1Y:145:PRO:HD3	2.01	0.41
2:1Z:227:ALA:HB1	2:1Z:229:MET:SD	2.61	0.41
1:mb:102:GLU:OE1	1:nv:98:LEU:O	2.39	0.41
2:mh:98:VAL:O	2:mh:99:TYR:HB3	2.21	0.41
2:mh:303:LEU:HD23	2:mh:303:LEU:H	1.86	0.41
2:mn:251:ALA:HB2	2:mn:257:LEU:HD21	2.01	0.41
1:mu:96:ASP:HB3	1:mu:97:PRO:CD	2.51	0.41
2:mx:13:LYS:HB3	2:mz:43:ALA:HB3	2.02	0.41
2:my:99:TYR:CE1	2:oD:3:ILE:HD11	2.56	0.41
2:mA:42:THR:O	2:mA:179:LEU:HD11	2.21	0.41
2:mB:106:MET:HE3	2:mB:206:ALA:HB3	2.02	0.41
1:mI:96:ASP:HB3	1:mI:97:PRO:CD	2.51	0.41
2:mM:221:PHE:CG	2:mM:242:VAL:HG13	2.56	0.41
2:mN:182:LEU:HG	2:mN:182:LEU:O	2.21	0.41
2:mO:42:THR:O	2:mO:179:LEU:HD11	2.21	0.41
2:mO:233:GLU:OE1	2:mO:234:LEU:HD22	2.20	0.41
1:mR:65:ARG:HE	1:mR:96:ASP:HB2	1.86	0.41
1:mW:96:ASP:HB3	1:mW:97:PRO:CD	2.51	0.41
2:na:230:SER:O	2:na:231:THR:HG22	2.20	0.41
2:nb:277:VAL:HG12	2:nb:278:VAL:HG13	2.03	0.41
2:nq:42:THR:HG22	2:nq:43:ALA:N	2.36	0.41
2:nq:233:GLU:OE1	2:nq:234:LEU:HD22	2.20	0.41
2:nr:30:THR:HG23	2:nr:298:LEU:HD13	2.02	0.41
1:ns:65:ARG:HG2	1:ns:96:ASP:CB	2.51	0.41
1:nu:63:VAL:HG22	1:nu:75:LYS:N	2.35	0.41
1:nx:60:ARG:CB	1:nx:102:GLU:HB3	2.50	0.41
2:nz:238:ASN:O	2:nz:242:VAL:HG23	2.21	0.41
2:nA:75:ILE:HG21	2:nA:177:ARG:NH1	2.32	0.41
2:nB:63:ARG:NH2	2:nE:207:ASP:OD1	2.53	0.41
2:nB:79:LEU:HG	2:nD:59:TRP:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nD:123:LYS:HD3	2:nD:303:LEU:HB2	2.02	0.41
2:nD:161:ALA:N	2:nD:162:PRO:CD	2.84	0.41
2:nE:233:GLU:OE1	2:nE:234:LEU:HD22	2.20	0.41
2:nF:227:ALA:HB1	2:nF:229:MET:SD	2.61	0.41
2:nO:198:GLU:CD	1:oa:102:GLU:HA	2.44	0.41
2:nQ:93:ASP:O	2:ob:13:LYS:NZ	2.54	0.41
2:nS:179:LEU:HD22	2:nS:209:TYR:HD2	1.86	0.41
2:nT:227:ALA:HB1	2:nT:229:MET:SD	2.61	0.41
2:nT:239:PHE:CZ	2:nT:294:LEU:HD22	2.56	0.41
1:nV:65:ARG:HE	1:nV:96:ASP:HB2	1.86	0.41
1:oa:96:ASP:HB3	1:oa:97:PRO:CD	2.51	0.41
2:ob:225:GLN:O	2:ob:226:LEU:C	2.64	0.41
2:oc:42:THR:HG22	2:oc:43:ALA:H	1.85	0.41
2:od:79:LEU:HG	2:of:59:TRP:CD1	2.56	0.41
2:oe:79:LEU:HD11	2:oh:59:TRP:HA	2.02	0.41
2:of:144:TYR:CG	2:of:145:PRO:HD2	2.55	0.41
2:of:287:ALA:O	2:of:288:ASP:CG	2.63	0.41
2:og:281:GLN:O	2:og:289:ASN:N	2.53	0.41
2:oh:227:ALA:HB1	2:oh:229:MET:SD	2.61	0.41
1:oo:96:ASP:HB3	1:oo:97:PRO:CD	2.51	0.41
2:og:191:SER:CB	2:ov:191:SER:HB3	2.50	0.41
2:os:144:TYR:HB3	2:os:145:PRO:CD	2.49	0.41
2:ot:161:ALA:N	2:ot:162:PRO:CD	2.84	0.41
2:ou:238:ASN:O	2:ou:242:VAL:CG2	2.62	0.41
2:ov:9:ILE:HD11	2:pW:98:VAL:HG21	2.02	0.41
2:ov:221:PHE:HD2	2:ov:224:TRP:HE1	1.69	0.41
2:oG:221:PHE:CG	2:oG:242:VAL:HG13	2.56	0.41
1:oL:98:LEU:O	2:oV:62:GLN:NE2	2.54	0.41
1:oQ:62:THR:HG21	1:oQ:97:PRO:HB3	2.03	0.41
1:oQ:96:ASP:HB3	1:oQ:97:PRO:CD	2.51	0.41
2:oS:201:GLU:O	2:oS:202:GLN:C	2.62	0.41
2:oT:100:GLY:N	2:oT:101:PRO:CD	2.84	0.41
2:oU:66:LYS:HB2	2:oV:84:VAL:HG12	2.02	0.41
2:oV:182:LEU:HG	2:oV:182:LEU:O	2.21	0.41
2:oW:62:GLN:N	2:oW:62:GLN:CD	2.79	0.41
2:oX:221:PHE:HD2	2:oX:224:TRP:HE1	1.69	0.41
2:pi:221:PHE:CG	2:pi:242:VAL:HG13	2.56	0.41
2:pj:123:LYS:HD3	2:pj:303:LEU:HB2	2.02	0.41
2:pl:243:TYR:CD1	2:pl:294:LEU:HD21	2.56	0.41
1:pn:64:GLU:OE1	1:pn:66:ARG:NH2	2.53	0.41
2:pt:187:ARG:HD3	2:pt:194:SER:OG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pw:197:LYS:HZ2	1:pF:100:LYS:HB3	1.85	0.41
2:px:20:PHE:N	2:px:20:PHE:CD1	2.87	0.41
2:pz:227:ALA:HB1	2:pz:229:MET:SD	2.61	0.41
1:pA:65:ARG:HG2	1:pA:96:ASP:CB	2.51	0.41
1:pB:64:GLU:OE1	1:pB:66:ARG:NH2	2.53	0.41
2:pI:42:THR:HG22	2:pI:43:ALA:H	1.85	0.41
2:pJ:224:TRP:CE2	2:pJ:242:VAL:HG21	2.56	0.41
2:pK:221:PHE:CG	2:pK:242:VAL:HG13	2.56	0.41
2:pK:230:SER:O	2:pK:231:THR:HG22	2.20	0.41
2:pK:264:LEU:O	2:pK:297:VAL:HG23	2.21	0.41
2:pL:163:ALA:O	2:pL:264:LEU:HD12	2.21	0.41
2:pM:179:LEU:HD22	2:pM:209:TYR:HD2	1.86	0.41
2:pW:40:SER:HB3	2:pW:179:LEU:HD13	2.03	0.41
2:pX:79:LEU:HG	2:pZ:59:TRP:CD1	2.56	0.41
2:pX:100:GLY:N	2:pX:101:PRO:CD	2.84	0.41
2:pX:224:TRP:CE2	2:pX:242:VAL:HG21	2.56	0.41
2:qa:144:TYR:HB3	2:qa:145:PRO:HD3	2.01	0.41
2:qa:179:LEU:HD22	2:qa:209:TYR:HD2	1.86	0.41
3:qi:60:ALA:C	4:qo:33:SER:OG	2.63	0.41
4:qk:85:TYR:CE1	4:qk:212:PRO:HD3	2.55	0.41
4:ql:64:LYS:O	4:qm:55:ALA:CB	2.68	0.41
4:ql:74:SER:HA	4:qm:5:THR:O	2.20	0.41
5:qp:85:ILE:HD13	5:qp:331:LEU:HD12	2.02	0.41
5:qp:258:LEU:O	5:qp:261:ALA:O	2.39	0.41
5:qr:16:GLN:HB3	5:qr:184:GLN:NE2	2.36	0.41
5:qt:248:LYS:HE2	6:qw:123:ASN:HB3	1.67	0.41
5:qt:393:GLU:O	5:qv:408:PRO:HG3	2.20	0.41
5:qv:385:PRO:O	5:qv:389:ASN:OD1	2.38	0.41
5:qv:393:GLU:O	5:qx:408:PRO:HG3	2.20	0.41
5:qB:385:PRO:O	5:qB:389:ASN:OD1	2.38	0.41
5:qJ:16:GLN:HB3	5:qJ:184:GLN:NE2	2.36	0.41
5:qJ:139:LEU:HD12	5:qJ:139:LEU:N	2.36	0.41
5:qL:139:LEU:N	5:qL:139:LEU:HD12	2.36	0.41
1:aa:65:ARG:HE	1:aa:96:ASP:HB2	1.86	0.41
2:ag:219:VAL:O	2:ag:219:VAL:HG22	2.21	0.41
2:ai:59:TRP:NE1	2:ai:63:ARG:HG3	2.35	0.41
2:ai:224:TRP:CE2	2:ai:242:VAL:HG21	2.56	0.41
2:aj:62:GLN:HE21	1:ng:102:GLU:HG2	1.84	0.41
2:aj:79:LEU:HD11	2:am:59:TRP:HA	2.02	0.41
2:aj:197:LYS:HZ2	1:oP:100:LYS:HB3	1.85	0.41
2:au:225:GLN:O	2:au:226:LEU:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ax:182:LEU:HG	2:ax:182:LEU:O	2.21	0.41
2:ay:9:ILE:HD11	2:gq:70:ALA:CB	2.51	0.41
2:ay:179:LEU:HD22	2:ay:209:TYR:HD2	1.86	0.41
2:az:228:ALA:HB3	2:az:273:LYS:HE3	2.02	0.41
2:aH:235:ASN:ND2	2:aH:291:ASN:OD1	2.47	0.41
2:aI:42:THR:HG22	2:aI:43:ALA:H	1.85	0.41
2:aL:182:LEU:HG	2:aL:182:LEU:O	2.21	0.41
2:aM:42:THR:O	2:aM:179:LEU:HD11	2.21	0.41
2:aN:226:LEU:HD21	2:aN:273:LYS:HB3	2.03	0.41
2:aV:187:ARG:HD3	2:aV:194:SER:OG	2.21	0.41
2:aX:70:ALA:CB	2:py:9:ILE:HD11	2.51	0.41
2:ba:62:GLN:CD	2:ba:62:GLN:N	2.79	0.41
1:be:91:GLU:HB2	2:kp:4:ILE:HG21	2.03	0.41
1:bf:98:LEU:O	1:ki:102:GLU:OE1	2.39	0.41
1:bf:103:ARG:NE	2:ds:61:GLY:CA	2.83	0.41
2:bk:141:HIS:HB3	2:bk:143:VAL:HG23	2.01	0.41
2:bm:230:SER:O	2:bm:231:THR:HG22	2.20	0.41
2:bo:144:TYR:HB3	2:bo:145:PRO:HD3	2.01	0.41
2:bp:264:LEU:HB2	2:bp:295:VAL:HG11	2.02	0.41
1:br:60:ARG:O	1:br:61:ALA:HB3	2.21	0.41
2:by:40:SER:HB3	2:by:179:LEU:HD13	2.03	0.41
2:bA:83:THR:HG23	2:bA:205:MET:CG	2.51	0.41
2:bD:227:ALA:HB1	2:bD:229:MET:SD	2.61	0.41
2:bD:299:ASP:O	2:bD:300:THR:OG1	2.36	0.41
1:bF:65:ARG:HE	1:bF:96:ASP:HB2	1.86	0.41
1:bF:102:GLU:OE1	1:gM:98:LEU:O	2.39	0.41
1:bH:99:LEU:HA	2:gq:197:LYS:CE	2.49	0.41
1:bH:99:LEU:CA	2:gq:197:LYS:HZ3	2.10	0.41
2:bL:194:SER:O	2:bL:199:ASP:O	2.39	0.41
2:bM:70:ALA:CB	2:IY:9:ILE:HD11	2.51	0.41
2:bN:264:LEU:O	2:bN:297:VAL:HG23	2.21	0.41
2:bO:182:LEU:HG	2:bO:182:LEU:O	2.21	0.41
2:bQ:221:PHE:HD2	2:bQ:224:TRP:HE1	1.69	0.41
2:bQ:249:GLN:HB3	2:bQ:257:LEU:HD12	2.03	0.41
1:bT:102:GLU:CD	1:eR:99:LEU:HB3	2.37	0.41
1:bU:99:LEU:HD22	1:eQ:60:ARG:HG2	2.01	0.41
1:bX:62:THR:HG21	1:bX:97:PRO:HB3	2.03	0.41
2:bY:187:ARG:HD3	2:bY:194:SER:OG	2.21	0.41
2:bY:193:THR:HG22	2:dr:193:THR:HG23	1.99	0.41
2:ca:59:TRP:NE1	2:ca:63:ARG:HG3	2.35	0.41
2:cb:66:LYS:HB2	2:cc:84:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cb:83:THR:HG23	2:cb:205:MET:CG	2.51	0.41
2:cb:148:ASP:OD1	2:cb:149:GLY:N	2.53	0.41
2:cb:277:VAL:O	2:cb:289:ASN:ND2	2.48	0.41
2:cd:143:VAL:HG12	2:cd:144:TYR:N	2.36	0.41
2:cd:179:LEU:HD22	2:cd:209:TYR:HD2	1.86	0.41
2:cd:233:GLU:OE1	2:cd:234:LEU:HD22	2.20	0.41
2:cd:236:GLN:HA	2:cd:240:GLU:HB3	2.03	0.41
2:ce:227:ALA:HB1	2:ce:229:MET:SD	2.61	0.41
1:cf:65:ARG:HG2	1:cf:96:ASP:HB2	2.02	0.41
1:cg:98:LEU:O	2:cq:62:GLN:NE2	2.54	0.41
2:cm:238:ASN:O	2:cm:242:VAL:HG23	2.21	0.41
2:cn:82:SER:HB2	2:cn:206:ALA:H	1.85	0.41
2:co:59:TRP:NE1	2:co:63:ARG:HG3	2.35	0.41
2:co:235:ASN:HD21	2:co:290:PRO:HD2	1.86	0.41
2:cq:187:ARG:O	2:cq:187:ARG:CG	2.68	0.41
2:cr:42:THR:HG22	2:cr:43:ALA:N	2.36	0.41
2:cC:280:VAL:HG22	2:cC:282:ARG:H	1.85	0.41
2:cD:234:LEU:HG	2:cD:239:PHE:HB2	2.02	0.41
2:cE:161:ALA:N	2:cE:162:PRO:CD	2.84	0.41
2:cE:228:ALA:O	2:cE:284:ALA:HB2	2.20	0.41
2:cF:179:LEU:HD22	2:cF:209:TYR:HD2	1.86	0.41
2:cO:303:LEU:H	2:cO:303:LEU:HD23	1.85	0.41
2:cP:42:THR:HG22	2:cP:43:ALA:H	1.85	0.41
2:cQ:59:TRP:NE1	2:cQ:63:ARG:HG3	2.35	0.41
2:cQ:70:ALA:CB	2:pM:9:ILE:HD11	2.51	0.41
2:cR:99:TYR:CE1	2:eW:3:ILE:HD11	2.56	0.41
2:cS:163:ALA:O	2:cS:264:LEU:HD12	2.21	0.41
2:cT:233:GLU:OE1	2:cT:234:LEU:HD22	2.20	0.41
2:dc:141:HIS:N	2:dc:148:ASP:O	2.54	0.41
2:dc:303:LEU:H	2:dc:303:LEU:HD23	1.86	0.41
2:de:100:GLY:N	2:de:101:PRO:CD	2.84	0.41
2:df:221:PHE:CG	2:df:242:VAL:HG13	2.56	0.41
2:dg:4:ILE:HG23	1:dy:90:LEU:HB3	2.02	0.41
2:dh:42:THR:HG22	2:dh:43:ALA:N	2.36	0.41
2:dq:197:LYS:O	2:dq:198:GLU:CG	2.69	0.41
2:dq:238:ASN:O	2:dq:242:VAL:HG23	2.21	0.41
2:dr:184:TYR:HH	2:dr:204:PHE:HD1	1.61	0.41
2:ds:70:ALA:CB	2:ks:9:ILE:HD11	2.51	0.41
2:dt:83:THR:HG23	2:dt:205:MET:CG	2.51	0.41
2:du:88:ARG:O	2:du:91:ILE:HG12	2.19	0.41
1:dz:91:GLU:HB2	2:gE:4:ILE:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dE:225:GLN:O	2:dE:226:LEU:C	2.64	0.41
2:dE:238:ASN:O	2:dE:242:VAL:HG23	2.21	0.41
2:dE:303:LEU:H	2:dE:303:LEU:HD23	1.86	0.41
2:dI:182:LEU:HG	2:dI:182:LEU:O	2.21	0.41
2:dK:243:TYR:CD1	2:dK:294:LEU:HD21	2.56	0.41
1:dL:57:VAL:O	1:dL:79:GLY:O	2.38	0.41
1:dM:65:ARG:HE	1:dM:96:ASP:HB2	1.86	0.41
1:dM:102:GLU:OE1	1:pD:98:LEU:O	2.39	0.41
2:dS:59:TRP:CZ2	2:nN:199:ASP:HA	2.56	0.41
2:dS:219:VAL:O	2:dS:219:VAL:HG22	2.21	0.41
2:dS:224:TRP:CE3	2:dS:226:LEU:HD12	2.55	0.41
2:dS:238:ASN:O	2:dS:242:VAL:HG23	2.21	0.41
2:dU:100:GLY:N	2:dU:101:PRO:CD	2.84	0.41
1:ea:65:ARG:HE	1:ea:96:ASP:HB2	1.86	0.41
1:ec:90:LEU:O	2:eu:4:ILE:HD11	2.21	0.41
1:ee:100:LYS:HB3	2:nC:197:LYS:HZ2	1.85	0.41
2:eg:3:ILE:HD11	2:nC:99:TYR:CE1	2.56	0.41
2:ei:79:LEU:HG	2:ek:59:TRP:CD1	2.56	0.41
2:ej:3:ILE:HD13	2:ej:9:ILE:HD13	2.03	0.41
2:ej:221:PHE:CG	2:ej:242:VAL:HG13	2.56	0.41
2:el:62:GLN:N	2:el:62:GLN:CD	2.79	0.41
2:el:179:LEU:HD22	2:el:209:TYR:HD2	1.86	0.41
2:em:62:GLN:HB3	1:nV:103:ARG:O	2.20	0.41
2:em:243:TYR:CD1	2:em:294:LEU:HD21	2.56	0.41
1:en:65:ARG:HG2	1:en:96:ASP:CB	2.51	0.41
1:eo:64:GLU:OE1	1:eo:66:ARG:NH2	2.53	0.41
2:eu:187:ARG:HD3	2:eu:194:SER:OG	2.21	0.41
2:ex:62:GLN:HG2	1:nI:103:ARG:H	1.85	0.41
2:ez:42:THR:O	2:ez:179:LEU:HD11	2.21	0.41
2:ez:143:VAL:HG12	2:ez:144:TYR:N	2.36	0.41
1:eC:64:GLU:OE1	1:eC:66:ARG:NH2	2.53	0.41
2:eK:63:ARG:HE	2:eN:205:MET:CE	2.30	0.41
2:eN:62:GLN:N	2:eN:62:GLN:CD	2.79	0.41
2:eN:143:VAL:HG12	2:eN:144:TYR:N	2.36	0.41
2:eW:141:HIS:N	2:eW:148:ASP:O	2.54	0.41
2:eW:182:LEU:H	2:eW:182:LEU:HD23	1.85	0.41
2:eY:224:TRP:CE2	2:eY:242:VAL:HG21	2.56	0.41
2:eZ:79:LEU:HD11	2:fc:59:TRP:HA	2.02	0.41
2:fa:123:LYS:HD3	2:fa:303:LEU:HB2	2.02	0.41
2:fc:232:GLU:HB3	2:fc:236:GLN:HG2	2.03	0.41
2:fk:13:LYS:NZ	2:gF:93:ASP:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fm:224:TRP:CE2	2:fm:242:VAL:HG21	2.56	0.41
2:fn:99:TYR:CE1	2:nz:3:ILE:HD11	2.56	0.41
2:fo:277:VAL:HG12	2:fo:278:VAL:HG13	2.03	0.41
2:fp:42:THR:HG22	2:fp:43:ALA:N	2.36	0.41
2:fq:227:ALA:HB1	2:fq:229:MET:SD	2.61	0.41
1:fs:98:LEU:O	2:fC:62:GLN:NE2	2.54	0.41
1:fs:102:GLU:OE1	1:nX:98:LEU:O	2.39	0.41
1:fw:60:ARG:CB	1:fw:102:GLU:HB3	2.50	0.41
2:fy:199:ASP:HA	2:nl:59:TRP:CZ2	2.56	0.41
2:fz:63:ARG:HD2	2:nm:205:MET:CE	2.49	0.41
2:fz:224:TRP:CZ3	2:fz:226:LEU:HD13	2.56	0.41
2:fA:100:GLY:N	2:fA:101:PRO:CD	2.84	0.41
2:fB:93:ASP:O	2:mh:13:LYS:NZ	2.54	0.41
2:fC:161:ALA:N	2:fC:162:PRO:CD	2.84	0.41
1:fF:65:ARG:HG2	1:fF:96:ASP:CB	2.51	0.41
2:fO:63:ARG:HE	2:fR:205:MET:CE	2.30	0.41
2:fO:235:ASN:HD21	2:fO:290:PRO:HD2	1.86	0.41
2:fP:197:LYS:HZ2	1:fY:100:LYS:HB3	1.86	0.41
2:fP:221:PHE:CG	2:fP:242:VAL:HG13	2.56	0.41
2:fQ:62:GLN:NE2	2:kG:197:LYS:NZ	2.68	0.41
1:fU:82:ASP:OD1	1:fU:83:GLY:N	2.51	0.41
2:gc:197:LYS:CE	1:md:99:LEU:HA	2.49	0.41
2:gc:280:VAL:HG22	2:gc:282:ARG:H	1.85	0.41
2:ge:161:ALA:N	2:ge:162:PRO:CD	2.84	0.41
2:gf:62:GLN:N	2:gf:62:GLN:CD	2.79	0.41
1:gh:65:ARG:HG2	1:gh:96:ASP:CB	2.51	0.41
1:gh:100:LYS:CD	1:if:100:LYS:NZ	2.71	0.41
1:gj:63:VAL:HG22	1:gj:75:LYS:N	2.35	0.41
1:gm:86:SER:O	1:gm:90:LEU:N	2.50	0.41
1:gm:100:LYS:HB3	2:hV:197:LYS:HZ2	1.85	0.41
2:go:187:ARG:HD3	2:go:194:SER:OG	2.21	0.41
2:gr:234:LEU:HG	2:gr:239:PHE:HB2	2.02	0.41
2:gt:62:GLN:N	2:gt:62:GLN:CD	2.79	0.41
2:gu:232:GLU:HB3	2:gu:236:GLN:HG2	2.03	0.41
2:gu:239:PHE:CZ	2:gu:294:LEU:HD22	2.56	0.41
1:gv:65:ARG:HG2	1:gv:96:ASP:CB	2.51	0.41
1:gw:64:GLU:OE1	1:gw:66:ARG:NH2	2.53	0.41
2:gC:225:GLN:O	2:gC:226:LEU:C	2.64	0.41
2:gD:42:THR:HG22	2:gD:43:ALA:H	1.85	0.41
2:gD:224:TRP:CZ3	2:gD:226:LEU:HD13	2.56	0.41
2:gE:59:TRP:NE1	2:gE:63:ARG:HG3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gF:3:ILE:HD13	2:gF:9:ILE:HD13	2.03	0.41
2:gF:66:LYS:HB2	2:gG:84:VAL:HG12	2.02	0.41
2:gG:88:ARG:O	2:gG:91:ILE:HG12	2.19	0.41
2:gI:122:LEU:HD23	2:gI:122:LEU:C	2.45	0.41
2:gI:228:ALA:HB3	2:gI:273:LYS:HE3	2.02	0.41
2:gI:243:TYR:CD1	2:gI:294:LEU:HD21	2.56	0.41
1:gJ:63:VAL:HG23	1:gJ:78:GLN:H	1.84	0.41
1:gL:58:PHE:HB3	1:gL:101:VAL:HG21	2.03	0.41
1:gO:60:ARG:CB	1:gO:102:GLU:HB3	2.50	0.41
2:gQ:219:VAL:O	2:gQ:219:VAL:HG22	2.21	0.41
2:gR:42:THR:HG22	2:gR:43:ALA:H	1.85	0.41
2:gS:280:VAL:HG22	2:gS:282:ARG:H	1.85	0.41
2:gT:197:LYS:HZ2	1:lR:100:LYS:HB3	1.85	0.41
1:gX:65:ARG:HG2	1:gX:96:ASP:CB	2.51	0.41
1:gY:103:ARG:O	2:mB:62:GLN:HB3	2.20	0.41
2:he:219:VAL:O	2:he:219:VAL:HG22	2.21	0.41
2:hg:70:ALA:CB	2:oI:9:ILE:HD11	2.51	0.41
2:hh:99:TYR:CE1	2:kB:3:ILE:HD11	2.56	0.41
2:hi:277:VAL:HG12	2:hi:278:VAL:HG13	2.03	0.41
2:hj:143:VAL:HG12	2:hj:144:TYR:N	2.36	0.41
1:hl:58:PHE:HB3	1:hl:101:VAL:HG13	2.02	0.41
1:hq:63:VAL:HG13	1:hq:74:ASP:HB3	1.99	0.41
2:hs:199:ASP:HA	2:ko:59:TRP:CZ2	2.56	0.41
2:ht:70:ALA:CB	2:jb:9:ILE:HD11	2.51	0.41
2:hu:99:TYR:CE1	2:hF:3:ILE:HD11	2.56	0.41
2:hu:171:TYR:CE1	2:hu:175:THR:HG21	2.56	0.41
2:hw:233:GLU:OE1	2:hw:234:LEU:HD22	2.20	0.41
2:hx:239:PHE:CZ	2:hx:294:LEU:HD22	2.56	0.41
1:hy:57:VAL:O	1:hy:79:GLY:O	2.38	0.41
1:hz:98:LEU:O	2:hI:62:GLN:NE2	2.54	0.41
1:hE:69:ALA:CA	6:qC:59:PRO:HG2	2.50	0.41
2:hF:31:TYR:CZ	5:qv:178:PRO:CB	3.04	0.41
2:hF:194:SER:O	2:hF:199:ASP:O	2.39	0.41
2:hF:303:LEU:H	2:hF:303:LEU:HD23	1.85	0.41
2:hI:287:ALA:O	2:hI:288:ASP:CG	2.63	0.41
1:hM:60:ARG:O	1:hM:61:ALA:HB3	2.21	0.41
1:hR:60:ARG:HD2	1:hR:102:GLU:OE1	2.20	0.41
2:hV:171:TYR:CE1	2:hV:175:THR:HG21	2.56	0.41
2:hW:123:LYS:HD3	2:hW:303:LEU:HB2	2.02	0.41
2:hX:62:GLN:CD	2:hX:62:GLN:N	2.79	0.41
2:hY:232:GLU:HB3	2:hY:236:GLN:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hZ:65:ARG:HG2	1:hZ:96:ASP:HB2	2.01	0.41
1:ia:64:GLU:OE1	1:ia:66:ARG:NH2	2.53	0.41
1:ic:86:SER:O	1:ic:90:LEU:N	2.50	0.41
1:if:96:ASP:HB3	1:if:97:PRO:CD	2.51	0.41
2:ii:13:LYS:HB3	2:ik:43:ALA:HB3	2.02	0.41
2:ij:221:PHE:CG	2:ij:242:VAL:HG13	2.56	0.41
2:ik:20:PHE:N	2:ik:20:PHE:CD1	2.87	0.41
2:il:144:TYR:HB3	2:il:145:PRO:HD3	2.01	0.41
2:im:227:ALA:HB1	2:im:229:MET:SD	2.61	0.41
1:io:64:GLU:OE1	1:io:66:ARG:NH2	2.53	0.41
1:ip:102:GLU:CD	1:lm:99:LEU:HB3	2.37	0.41
1:it:57:VAL:CG1	1:it:59:VAL:HG13	2.50	0.41
2:iw:61:GLY:CA	1:jl:103:ARG:NE	2.83	0.41
2:iw:70:ALA:HB2	2:ou:9:ILE:HD11	2.01	0.41
2:ix:3:ILE:HD13	2:ix:9:ILE:HD13	2.03	0.41
2:iy:228:ALA:O	2:iy:284:ALA:HB2	2.20	0.41
2:iA:232:GLU:HB3	2:iA:236:GLN:HG2	2.03	0.41
1:iF:82:ASP:OD1	1:iF:83:GLY:N	2.52	0.41
1:iG:63:VAL:HG13	1:iG:74:ASP:HB2	2.03	0.41
2:iI:194:SER:O	2:iI:199:ASP:O	2.39	0.41
2:iL:221:PHE:CG	2:iL:242:VAL:HG13	2.56	0.41
2:iM:287:ALA:O	2:iM:288:ASP:CG	2.63	0.41
2:iW:182:LEU:H	2:iW:182:LEU:HD23	1.85	0.41
2:iY:59:TRP:NE1	2:iY:63:ARG:HG3	2.35	0.41
2:iZ:234:LEU:HG	2:iZ:239:PHE:HB2	2.02	0.41
2:jb:77:ASN:ND2	2:jb:209:TYR:O	2.53	0.41
2:jb:233:GLU:OE1	2:jb:234:LEU:HD22	2.20	0.41
2:jc:30:THR:HG23	2:jc:298:LEU:HD13	2.02	0.41
2:jc:226:LEU:HA	2:jc:238:ASN:ND2	2.35	0.41
1:je:65:ARG:HE	1:je:96:ASP:HB2	1.86	0.41
1:jj:57:VAL:CG1	1:jj:59:VAL:HG13	2.50	0.41
2:jk:187:ARG:HD3	2:jk:194:SER:OG	2.21	0.41
2:jk:194:SER:O	2:jk:199:ASP:O	2.39	0.41
2:jm:59:TRP:NE1	2:jm:63:ARG:HG3	2.36	0.41
2:jn:3:ILE:HD13	2:jn:9:ILE:HD13	2.03	0.41
2:jn:99:TYR:CE1	2:lr:3:ILE:HD11	2.56	0.41
2:jn:221:PHE:CG	2:jn:242:VAL:HG13	2.56	0.41
2:jp:62:GLN:N	2:jp:62:GLN:CD	2.79	0.41
1:ju:103:ARG:NH1	2:pX:61:GLY:CA	2.70	0.41
2:jy:141:HIS:N	2:jy:148:ASP:O	2.54	0.41
2:jy:187:ARG:HD3	2:jy:194:SER:OG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jC:4:ILE:HG23	1:jU:90:LEU:HB3	2.02	0.41
2:jE:107:GLY:HA3	2:jE:184:TYR:OH	2.19	0.41
1:jH:58:PHE:HB3	1:jH:101:VAL:HG21	2.03	0.41
1:jI:98:LEU:O	1:oj:102:GLU:OE1	2.39	0.41
2:jM:238:ASN:O	2:jM:242:VAL:HG23	2.21	0.41
2:jP:66:LYS:HB2	2:jQ:84:VAL:HG12	2.02	0.41
2:jS:243:TYR:CD1	2:jS:294:LEU:HD21	2.56	0.41
2:jS:249:GLN:HB3	2:jS:257:LEU:HD12	2.03	0.41
1:jU:60:ARG:O	1:jU:61:ALA:HB3	2.21	0.41
1:jZ:60:ARG:HD2	1:jZ:102:GLU:OE1	2.20	0.41
2:ka:225:GLN:O	2:ka:226:LEU:C	2.64	0.41
2:kf:62:GLN:CD	2:kf:62:GLN:N	2.79	0.41
2:kg:227:ALA:HB1	2:kg:229:MET:SD	2.61	0.41
2:kg:245:ALA:O	2:kg:249:GLN:HG2	2.20	0.41
2:kp:59:TRP:NE1	2:kp:63:ARG:HG3	2.35	0.41
2:kt:64:VAL:O	2:kt:64:VAL:HG23	2.19	0.41
2:kt:107:GLY:HA3	5:qD:178:PRO:HA	2.03	0.41
2:kt:226:LEU:HA	2:kt:238:ASN:ND2	2.35	0.41
1:kv:64:GLU:OE1	1:kv:66:ARG:NH2	2.53	0.41
1:kv:65:ARG:HE	1:kv:96:ASP:HB2	1.86	0.41
1:kv:82:ASP:OD1	1:kv:83:GLY:N	2.51	0.41
2:kB:59:TRP:CZ2	2:kP:199:ASP:HA	2.56	0.41
2:kB:62:GLN:OE1	1:kM:102:GLU:HG2	2.02	0.41
2:kB:194:SER:O	2:kB:199:ASP:O	2.39	0.41
2:kE:230:SER:O	2:kE:231:THR:HG22	2.20	0.41
2:kG:42:THR:O	2:kG:179:LEU:HD11	2.21	0.41
2:kG:179:LEU:HD22	2:kG:209:TYR:HD2	1.86	0.41
1:kJ:98:LEU:O	2:kT:62:GLN:NE2	2.54	0.41
1:kL:90:LEU:O	2:mX:4:ILE:HD11	2.21	0.41
2:kP:194:SER:O	2:kP:199:ASP:O	2.39	0.41
2:kR:53:PHE:O	2:kR:255:ARG:NH2	2.43	0.41
2:kR:59:TRP:NE1	2:kR:63:ARG:HG3	2.35	0.41
2:kR:79:LEU:HG	2:kT:59:TRP:CD1	2.56	0.41
2:kV:239:PHE:CZ	2:kV:294:LEU:HD22	2.56	0.41
1:lb:87:ASP:HB3	2:nq:5:THR:HG22	2.02	0.41
2:ld:187:ARG:HD3	2:ld:194:SER:OG	2.21	0.41
2:ld:193:THR:HG22	2:mK:193:THR:HG23	2.00	0.41
2:ld:303:LEU:H	2:ld:303:LEU:HD23	1.86	0.41
2:le:219:VAL:O	2:le:219:VAL:CG1	2.66	0.41
2:lg:62:GLN:HE21	1:oy:102:GLU:HG2	1.84	0.41
2:lg:171:TYR:CE1	2:lg:175:THR:HG21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lh:144:TYR:CG	2:lh:145:PRO:HD2	2.55	0.41
2:li:9:ILE:HD11	2:nn:70:ALA:CB	2.51	0.41
2:li:42:THR:HG22	2:li:43:ALA:N	2.36	0.41
1:lq:57:VAL:CG1	1:lq:59:VAL:HG13	2.50	0.41
2:lr:98:VAL:O	2:lr:99:TYR:HB3	2.21	0.41
2:lt:59:TRP:NE1	2:lt:63:ARG:HG3	2.35	0.41
2:lu:221:PHE:CG	2:lu:242:VAL:HG13	2.56	0.41
1:ly:65:ARG:HG2	1:ly:96:ASP:CB	2.51	0.41
2:lF:219:VAL:O	2:lF:219:VAL:HG22	2.21	0.41
2:lJ:182:LEU:HG	2:lJ:182:LEU:O	2.21	0.41
2:lK:42:THR:HG22	2:lK:43:ALA:N	2.36	0.41
2:lK:248:ASN:OD1	2:lK:248:ASN:O	2.38	0.41
2:lL:228:ALA:HB3	2:lL:273:LYS:HE3	2.02	0.41
2:lL:232:GLU:HB3	2:lL:236:GLN:HG2	2.03	0.41
2:lL:239:PHE:CZ	2:lL:294:LEU:HD22	2.56	0.41
1:lM:57:VAL:O	1:lM:79:GLY:O	2.38	0.41
2:lT:141:HIS:N	2:lT:148:ASP:O	2.54	0.41
2:lT:182:LEU:H	2:lT:182:LEU:HD23	1.85	0.41
2:lU:213:VAL:HG12	2:lU:214:ARG:O	2.20	0.41
2:lV:13:LYS:HB3	2:lX:43:ALA:HB3	2.02	0.41
2:lV:79:LEU:HG	2:lX:59:TRP:CD1	2.56	0.41
2:lW:221:PHE:CG	2:lW:242:VAL:HG13	2.56	0.41
2:lX:161:ALA:N	2:lX:162:PRO:CD	2.84	0.41
2:lY:143:VAL:HG12	2:lY:144:TYR:N	2.36	0.41
2:lZ:221:PHE:HE2	2:lZ:241:LYS:HE3	1.86	0.41
2:mh:141:HIS:N	2:mh:148:ASP:O	2.54	0.41
2:mk:3:ILE:HD13	2:mk:9:ILE:HD13	2.03	0.41
2:mk:93:ASP:O	2:mv:13:LYS:NZ	2.54	0.41
2:mv:225:GLN:O	2:mv:226:LEU:C	2.64	0.41
2:my:144:TYR:HB3	2:my:145:PRO:CD	2.49	0.41
2:mz:9:ILE:O	2:mz:9:ILE:CG2	2.68	0.41
2:mz:161:ALA:N	2:mz:162:PRO:CD	2.84	0.41
2:mz:163:ALA:O	2:mz:264:LEU:HD12	2.21	0.41
1:mD:60:ARG:O	1:mD:61:ALA:HB3	2.21	0.41
2:mJ:13:LYS:NZ	2:os:93:ASP:O	2.54	0.41
2:mJ:141:HIS:N	2:mJ:148:ASP:O	2.54	0.41
2:mK:191:SER:CB	2:mP:191:SER:HB3	2.50	0.41
2:mK:213:VAL:HG12	2:mK:214:ARG:O	2.20	0.41
2:mL:224:TRP:CE2	2:mL:242:VAL:HG21	2.56	0.41
2:mM:83:THR:HG23	2:mM:205:MET:CG	2.51	0.41
2:mP:232:GLU:HB3	2:mP:236:GLN:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mQ:57:VAL:O	1:mQ:79:GLY:O	2.38	0.41
2:mX:98:VAL:O	2:mX:99:TYR:HB3	2.21	0.41
2:mX:141:HIS:N	2:mX:148:ASP:O	2.54	0.41
2:mY:224:TRP:CZ3	2:mY:226:LEU:HD13	2.56	0.41
2:nb:228:ALA:O	2:nb:284:ALA:HB2	2.20	0.41
2:nd:232:GLU:HB3	2:nd:236:GLN:HG2	2.03	0.41
1:ne:65:ARG:HG2	1:ne:96:ASP:HB2	2.02	0.41
2:nm:42:THR:HG22	2:nm:43:ALA:H	1.85	0.41
2:nn:235:ASN:HD21	2:nn:290:PRO:HD2	1.86	0.41
2:no:148:ASP:OD1	2:no:149:GLY:N	2.53	0.41
2:nq:62:GLN:CD	2:nq:62:GLN:N	2.79	0.41
1:ns:57:VAL:O	1:ns:79:GLY:O	2.38	0.41
2:nB:224:TRP:CE2	2:nB:242:VAL:HG21	2.56	0.41
2:nC:264:LEU:O	2:nC:297:VAL:HG23	2.21	0.41
2:nD:163:ALA:O	2:nD:264:LEU:HD12	2.21	0.41
2:nD:182:LEU:HG	2:nD:182:LEU:O	2.21	0.41
2:nD:277:VAL:HG12	2:nD:278:VAL:HG13	2.03	0.41
2:nE:143:VAL:HG12	2:nE:144:TYR:N	2.36	0.41
2:nF:122:LEU:HD23	2:nF:122:LEU:C	2.45	0.41
2:nN:98:VAL:O	2:nN:99:TYR:HB3	2.21	0.41
2:nQ:144:TYR:HB3	2:nQ:145:PRO:CD	2.49	0.41
2:nR:9:ILE:O	2:nR:9:ILE:CG2	2.68	0.41
2:nR:287:ALA:O	2:nR:288:ASP:CG	2.64	0.41
2:ob:194:SER:O	2:ob:199:ASP:O	2.39	0.41
2:od:224:TRP:CE2	2:od:242:VAL:HG21	2.56	0.41
2:og:233:GLU:OE1	2:og:234:LEU:HD22	2.20	0.41
2:op:187:ARG:HD3	2:op:194:SER:OG	2.21	0.41
2:og:224:TRP:CZ3	2:og:226:LEU:HD13	2.56	0.41
2:os:221:PHE:CG	2:os:242:VAL:HG13	2.56	0.41
2:ot:144:TYR:CG	2:ot:145:PRO:HD2	2.55	0.41
2:ot:277:VAL:HG12	2:ot:278:VAL:HG13	2.03	0.41
2:ot:287:ALA:O	2:ot:288:ASP:CG	2.64	0.41
2:ou:62:GLN:CD	2:ou:62:GLN:N	2.79	0.41
1:ox:101:VAL:HG22	1:ox:102:GLU:N	2.35	0.41
2:oE:278:VAL:O	2:oE:278:VAL:HG23	2.19	0.41
2:oG:3:ILE:HD13	2:oG:9:ILE:HD13	2.03	0.41
2:oG:66:LYS:HB2	2:oH:84:VAL:HG12	2.02	0.41
2:oI:143:VAL:HG12	2:oI:144:TYR:N	2.36	0.41
1:oK:65:ARG:HG2	1:oK:96:ASP:HB2	2.02	0.41
2:oT:13:LYS:HB3	2:oV:43:ALA:HB3	2.02	0.41
2:oU:79:LEU:HD11	2:oX:59:TRP:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:oU:221:PHE:CG	2:oU:242:VAL:HG13	2.56	0.41
2:oV:163:ALA:O	2:oV:264:LEU:HD12	2.21	0.41
2:oW:248:ASN:O	2:oW:248:ASN:OD1	2.38	0.41
2:oX:30:THR:HG23	2:oX:298:LEU:HD13	2.02	0.41
2:pg:75:ILE:HG21	2:pg:177:ARG:NH1	2.32	0.41
2:pi:79:LEU:HD11	2:pl:59:TRP:HA	2.02	0.41
2:pl:182:LEU:O	2:pl:182:LEU:CD1	2.67	0.41
1:po:58:PHE:HB3	1:po:101:VAL:HG21	2.03	0.41
1:pp:90:LEU:O	2:pH:4:ILE:HD11	2.21	0.41
1:ps:62:THR:HG21	1:ps:97:PRO:HB3	2.03	0.41
2:pv:100:GLY:N	2:pv:101:PRO:CD	2.84	0.41
2:px:144:TYR:CG	2:px:145:PRO:HD2	2.55	0.41
2:px:287:ALA:O	2:px:288:ASP:CG	2.63	0.41
2:pz:30:THR:HG23	2:pz:298:LEU:HD13	2.02	0.41
2:pz:226:LEU:HD21	2:pz:273:LYS:HB3	2.03	0.41
2:pz:264:LEU:HB2	2:pz:295:VAL:HG11	2.02	0.41
1:pB:101:VAL:HG22	1:pB:102:GLU:N	2.35	0.41
2:pH:197:LYS:O	2:pH:198:GLU:CG	2.69	0.41
2:pM:144:TYR:HB3	2:pM:145:PRO:HD3	2.01	0.41
2:pN:245:ALA:O	2:pN:249:GLN:HG2	2.20	0.41
2:pN:249:GLN:HB3	2:pN:257:LEU:HD12	2.03	0.41
1:pU:57:VAL:CG1	1:pU:59:VAL:HG13	2.50	0.41
2:pV:141:HIS:N	2:pV:148:ASP:O	2.54	0.41
2:pV:194:SER:O	2:pV:199:ASP:O	2.39	0.41
2:pW:42:THR:HG22	2:pW:43:ALA:H	1.85	0.41
2:pY:79:LEU:HD11	2:qb:59:TRP:HA	2.02	0.41
2:pY:83:THR:HG23	2:pY:205:MET:CG	2.51	0.41
2:pZ:144:TYR:CG	2:pZ:145:PRO:HD2	2.55	0.41
2:pZ:161:ALA:N	2:pZ:162:PRO:CD	2.84	0.41
2:pZ:163:ALA:O	2:pZ:264:LEU:HD12	2.21	0.41
2:qb:239:PHE:CZ	2:qb:294:LEU:HD22	2.56	0.41
3:qf:67:ARG:NH1	3:qg:126:ARG:O	2.54	0.41
4:ql:13:ILE:HD11	4:ql:35:MET:SD	2.61	0.41
4:qm:13:ILE:HD11	4:qm:35:MET:SD	2.61	0.41
4:qn:74:SER:HA	4:qn:5:THR:O	2.20	0.41
4:qn:13:ILE:HD11	4:qn:35:MET:SD	2.61	0.41
4:qn:85:TYR:CE1	4:qn:212:PRO:HD3	2.55	0.41
4:qo:13:ILE:HD11	4:qo:35:MET:SD	2.61	0.41
5:qz:240:PRO:HA	5:qB:268:GLU:OE1	2.18	0.41
5:qB:250:THR:CG2	6:qC:125:VAL:HG22	2.51	0.41
5:qD:258:LEU:O	5:qD:261:ALA:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qF:16:GLN:HB3	5:qF:184:GLN:NE2	2.36	0.41
5:qF:392:LEU:HD13	5:qH:400:TYR:HH	1.77	0.41
5:qJ:393:GLU:O	5:qL:408:PRO:HG3	2.20	0.41
2:ag:194:SER:O	2:ag:199:ASP:O	2.39	0.41
2:ag:238:ASN:O	2:ag:242:VAL:HG23	2.21	0.41
2:ah:171:TYR:CZ	2:oc:20:PHE:N	2.89	0.41
2:ah:224:TRP:CZ3	2:ah:226:LEU:HD13	2.56	0.41
2:ai:43:ALA:HB3	2:al:13:LYS:HB3	2.03	0.41
2:ai:61:GLY:HA2	1:nX:103:ARG:NE	2.35	0.41
2:ai:70:ALA:CB	2:fD:9:ILE:HD11	2.51	0.41
2:ai:100:GLY:N	2:ai:101:PRO:CD	2.84	0.41
2:aj:148:ASP:OD1	2:aj:149:GLY:N	2.53	0.41
2:ak:143:VAL:HG13	2:ak:144:TYR:N	2.36	0.41
2:ak:163:ALA:O	2:ak:264:LEU:HD12	2.21	0.41
2:ak:287:ALA:O	2:ak:288:ASP:CG	2.63	0.41
2:al:143:VAL:HG12	2:al:144:TYR:N	2.36	0.41
2:al:197:LYS:NZ	2:fC:62:GLN:NE2	2.68	0.41
2:am:245:ALA:O	2:am:249:GLN:HG2	2.20	0.41
1:an:57:VAL:O	1:an:79:GLY:O	2.38	0.41
1:ao:102:GLU:OE1	1:hO:98:LEU:O	2.39	0.41
1:ao:103:ARG:O	2:hY:62:GLN:HB3	2.20	0.41
1:ap:91:GLU:HB2	2:ds:4:ILE:HG21	2.03	0.41
1:ar:102:GLU:HG2	2:bL:62:GLN:OE1	2.02	0.41
2:au:187:ARG:HD3	2:au:194:SER:OG	2.21	0.41
2:au:219:VAL:O	2:au:219:VAL:HG22	2.21	0.41
2:au:224:TRP:CE3	2:au:226:LEU:HD12	2.55	0.41
2:av:79:LEU:HG	2:ax:59:TRP:CD1	2.56	0.41
2:aw:3:ILE:HD13	2:aw:9:ILE:HD13	2.03	0.41
2:aw:83:THR:HG23	2:aw:205:MET:CG	2.51	0.41
2:ax:143:VAL:HG13	2:ax:144:TYR:N	2.36	0.41
2:ax:187:ARG:O	2:ax:187:ARG:CG	2.68	0.41
2:ay:42:THR:O	2:ay:179:LEU:HD11	2.21	0.41
2:az:122:LEU:HD23	2:az:122:LEU:C	2.45	0.41
2:az:232:GLU:HB3	2:az:236:GLN:HG2	2.03	0.41
1:aC:91:GLU:HB2	2:ht:4:ILE:HG21	2.03	0.41
1:aG:96:ASP:HB3	1:aG:97:PRO:CD	2.51	0.41
2:aH:225:GLN:O	2:aH:226:LEU:C	2.64	0.41
2:aJ:4:ILE:HG21	1:kK:91:GLU:HB2	2.03	0.41
2:aJ:44:SER:O	2:aJ:177:ARG:NH2	2.54	0.41
2:aJ:61:GLY:CA	1:jW:103:ARG:NE	2.83	0.41
2:aJ:70:ALA:HB2	2:nc:9:ILE:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aK:264:LEU:O	2:aK:297:VAL:HG23	2.21	0.41
2:aL:4:ILE:HG23	1:hm:90:LEU:HB3	2.02	0.41
2:aL:161:ALA:N	2:aL:162:PRO:CD	2.84	0.41
2:aM:62:GLN:N	2:aM:62:GLN:CD	2.79	0.41
2:aM:143:VAL:HG12	2:aM:144:TYR:N	2.36	0.41
2:aN:30:THR:HG23	2:aN:298:LEU:HD13	2.02	0.41
2:aN:226:LEU:HA	2:aN:238:ASN:ND2	2.35	0.41
2:aN:243:TYR:CD1	2:aN:294:LEU:HD21	2.56	0.41
1:aO:102:GLU:CG	1:iV:99:LEU:HD23	2.19	0.41
1:aR:98:LEU:O	1:je:102:GLU:OE1	2.39	0.41
2:aV:141:HIS:N	2:aV:148:ASP:O	2.54	0.41
2:aV:199:ASP:HA	2:iL:59:TRP:CZ2	2.56	0.41
2:aW:8:LEU:HD12	2:aW:8:LEU:N	2.35	0.41
2:aW:40:SER:HB3	2:aW:179:LEU:HD13	2.03	0.41
2:aW:224:TRP:CZ3	2:aW:226:LEU:HD13	2.56	0.41
2:aX:61:GLY:HA2	1:iE:103:ARG:NE	2.35	0.41
2:aX:63:ARG:NH2	2:ba:207:ASP:OD1	2.53	0.41
2:aX:224:TRP:CE2	2:aX:242:VAL:HG21	2.56	0.41
2:aY:171:TYR:CE1	2:aY:175:THR:HG21	2.56	0.41
2:aZ:9:ILE:O	2:aZ:9:ILE:CG2	2.68	0.41
2:aZ:277:VAL:HG12	2:aZ:278:VAL:HG13	2.03	0.41
2:bb:62:GLN:HB3	1:je:103:ARG:O	2.20	0.41
2:bb:245:ALA:O	2:bb:249:GLN:HG2	2.20	0.41
2:bb:264:LEU:HB2	2:bb:295:VAL:HG11	2.02	0.41
1:bd:60:ARG:O	1:bd:61:ALA:HB3	2.21	0.41
1:bd:102:GLU:OE1	1:iS:98:LEU:O	2.39	0.41
2:bj:197:LYS:O	2:bj:198:GLU:CG	2.69	0.41
2:bj:225:GLN:O	2:bj:226:LEU:C	2.64	0.41
2:bj:238:ASN:O	2:bj:242:VAL:HG23	2.21	0.41
2:bk:191:SER:CB	2:bp:191:SER:HB3	2.50	0.41
2:bk:205:MET:CE	2:dr:63:ARG:HD2	2.49	0.41
2:bl:43:ALA:HB3	2:bo:13:LYS:HB3	2.03	0.41
2:bl:63:ARG:NH2	2:bo:207:ASP:OD1	2.53	0.41
2:bl:100:GLY:N	2:bl:101:PRO:CD	2.84	0.41
2:bm:276:GLU:OE2	2:bm:280:VAL:HG21	2.21	0.41
2:bn:143:VAL:HG13	2:bn:144:TYR:N	2.36	0.41
2:bn:163:ALA:O	2:bn:264:LEU:HD12	2.21	0.41
2:bn:277:VAL:HG12	2:bn:278:VAL:HG13	2.03	0.41
2:bn:280:VAL:O	2:bn:289:ASN:ND2	2.54	0.41
2:bo:248:ASN:OD1	2:bo:248:ASN:O	2.37	0.41
1:bq:65:ARG:HG2	1:bq:96:ASP:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:br:98:LEU:O	2:bB:62:GLN:NE2	2.54	0.41
1:bs:91:GLU:HB2	2:ca:4:ILE:HG21	2.03	0.41
1:bu:102:GLU:HG2	2:dc:62:GLN:OE1	2.02	0.41
1:bv:87:ASP:HB3	2:dJ:5:THR:HG22	2.02	0.41
1:bw:86:SER:O	1:bw:90:LEU:N	2.47	0.41
2:bx:187:ARG:HD3	2:bx:194:SER:OG	2.21	0.41
2:bx:194:SER:O	2:bx:199:ASP:O	2.39	0.41
2:bx:219:VAL:O	2:bx:219:VAL:HG22	2.21	0.41
2:bx:238:ASN:O	2:bx:242:VAL:HG23	2.21	0.41
2:by:141:HIS:CD2	2:by:150:THR:HG1	2.31	0.41
2:bz:63:ARG:HE	2:bC:205:MET:CE	2.30	0.41
2:bz:70:ALA:CB	2:dJ:9:ILE:HD11	2.51	0.41
2:bz:224:TRP:CE2	2:bz:242:VAL:HG21	2.56	0.41
2:bA:79:LEU:HD11	2:bD:59:TRP:HA	2.02	0.41
2:bA:221:PHE:CG	2:bA:242:VAL:HG13	2.56	0.41
2:bB:62:GLN:NE2	2:dJ:197:LYS:NZ	2.68	0.41
2:bB:123:LYS:HD3	2:bB:303:LEU:HB2	2.02	0.41
2:bB:161:ALA:N	2:bB:162:PRO:CD	2.84	0.41
2:bC:9:ILE:HD11	2:dG:70:ALA:CB	2.51	0.41
2:bC:42:THR:HG22	2:bC:43:ALA:N	2.36	0.41
2:bC:62:GLN:N	2:bC:62:GLN:CD	2.79	0.41
2:bC:143:VAL:HG12	2:bC:144:TYR:N	2.36	0.41
2:bC:179:LEU:HD22	2:bC:209:TYR:HD2	1.86	0.41
2:bC:196:THR:O	2:bC:196:THR:HG22	2.21	0.41
1:bF:82:ASP:OD1	1:bF:83:GLY:N	2.51	0.41
1:bG:91:GLU:HB2	2:gq:4:ILE:HG21	2.03	0.41
1:bG:102:GLU:CD	1:gj:99:LEU:CA	2.87	0.41
2:bL:13:LYS:NZ	2:hH:93:ASP:O	2.54	0.41
2:bL:238:ASN:O	2:bL:242:VAL:HG23	2.21	0.41
2:bM:13:LYS:HB3	2:bO:43:ALA:HB3	2.02	0.41
2:bM:100:GLY:N	2:bM:101:PRO:CD	2.84	0.41
2:bN:62:GLN:HG2	1:gL:103:ARG:H	1.85	0.41
2:bN:234:LEU:HG	2:bN:239:PHE:HB2	2.02	0.41
2:bQ:107:GLY:CA	5:qp:176:ASN:CB	2.93	0.41
2:bQ:232:GLU:HB3	2:bQ:236:GLN:HG2	2.03	0.41
1:bT:103:ARG:H	2:eZ:62:GLN:HG2	1.85	0.41
1:bU:90:LEU:O	2:iL:4:ILE:HD11	2.21	0.41
1:bU:99:LEU:HA	2:eY:197:LYS:CE	2.49	0.41
1:bU:103:ARG:NE	2:iK:61:GLY:HA2	2.35	0.41
2:bY:3:ILE:HD11	2:dt:99:TYR:CE1	2.56	0.41
2:bY:225:GLN:O	2:bY:226:LEU:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bY:238:ASN:O	2:bY:242:VAL:HG23	2.21	0.41
2:bZ:44:SER:OG	2:bZ:75:ILE:O	2.21	0.41
2:bZ:268:THR:HG23	2:iJ:247:ARG:HD2	2.03	0.41
2:ca:70:ALA:HB2	2:hX:9:ILE:HD11	2.01	0.41
2:cb:3:ILE:HD13	2:cb:9:ILE:HD13	2.03	0.41
2:cc:123:LYS:HD3	2:cc:303:LEU:HB2	2.02	0.41
2:cc:163:ALA:O	2:cc:264:LEU:HD12	2.21	0.41
2:cc:182:LEU:O	2:cc:182:LEU:HG	2.21	0.41
2:cd:9:ILE:HD11	2:hU:70:ALA:CB	2.51	0.41
2:ce:9:ILE:HD11	2:dr:98:VAL:HG21	2.02	0.41
2:ce:226:LEU:HA	2:ce:238:ASN:ND2	2.35	0.41
2:ce:249:GLN:HB3	2:ce:257:LEU:HD12	2.03	0.41
1:cg:101:VAL:HG22	1:cg:102:GLU:N	2.35	0.41
1:ch:58:PHE:HB3	1:ch:101:VAL:HG21	2.02	0.41
1:cl:57:VAL:CG1	1:cl:59:VAL:HG13	2.50	0.41
1:cl:99:LEU:HD23	1:iB:102:GLU:CG	2.19	0.41
2:cm:194:SER:O	2:cm:199:ASP:O	2.39	0.41
2:cn:42:THR:HG22	2:cn:43:ALA:H	1.85	0.41
2:cn:224:TRP:CZ3	2:cn:226:LEU:HD13	2.56	0.41
2:co:61:GLY:HA2	1:iq:103:ARG:NE	2.35	0.41
2:co:100:GLY:N	2:co:101:PRO:CD	2.84	0.41
2:cp:187:ARG:HB2	2:cp:203:VAL:HG12	2.03	0.41
2:cp:264:LEU:O	2:cp:297:VAL:HG23	2.21	0.41
2:cr:9:ILE:HD11	2:lt:70:ALA:CB	2.51	0.41
2:cr:171:TYR:OH	2:cr:175:THR:OG1	2.12	0.41
1:cu:90:LEU:HB3	2:dW:4:ILE:HG23	2.02	0.41
1:cz:62:THR:HG21	1:cz:97:PRO:HB3	2.03	0.41
2:cA:59:TRP:CZ2	2:cO:199:ASP:HA	2.56	0.41
2:cA:61:GLY:CA	1:cL:103:ARG:HD2	2.40	0.41
2:cA:187:ARG:HD3	2:cA:194:SER:OG	2.21	0.41
2:cA:194:SER:O	2:cA:199:ASP:O	2.39	0.41
2:cB:278:VAL:O	2:cB:278:VAL:HG23	2.19	0.41
2:cC:43:ALA:HB3	2:cF:13:LYS:HB3	2.03	0.41
2:cC:61:GLY:CA	1:pb:103:ARG:NE	2.83	0.41
2:cC:224:TRP:CE2	2:cC:242:VAL:HG21	2.56	0.41
2:cD:83:THR:HG23	2:cD:205:MET:CG	2.50	0.41
2:cE:144:TYR:CG	2:cE:145:PRO:HD2	2.55	0.41
2:cG:228:ALA:HB3	2:cG:273:LYS:HE3	2.02	0.41
2:cG:264:LEU:HB2	2:cG:295:VAL:HG11	2.02	0.41
1:cI:60:ARG:O	1:cI:61:ALA:HB3	2.21	0.41
1:cJ:58:PHE:HB3	1:cJ:101:VAL:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cO:182:LEU:H	2:cO:182:LEU:HD23	1.84	0.41
2:cO:187:ARG:HD3	2:cO:194:SER:OG	2.21	0.41
2:cQ:4:ILE:HG21	1:po:91:GLU:HB2	2.03	0.41
2:cQ:13:LYS:HB3	2:cS:43:ALA:HB3	2.02	0.41
2:cQ:79:LEU:HG	2:cS:59:TRP:CD1	2.56	0.41
2:cQ:224:TRP:CE2	2:cQ:242:VAL:HG21	2.56	0.41
2:cR:3:ILE:HD13	2:cR:9:ILE:HD13	2.03	0.41
2:cR:83:THR:HG23	2:cR:205:MET:CG	2.50	0.41
2:cR:221:PHE:CG	2:cR:242:VAL:HG13	2.56	0.41
2:cS:182:LEU:HG	2:cS:182:LEU:O	2.21	0.41
2:cS:277:VAL:HG12	2:cS:278:VAL:HG13	2.03	0.41
2:cT:42:THR:O	2:cT:179:LEU:HD11	2.21	0.41
2:cT:62:GLN:CD	2:cT:62:GLN:N	2.79	0.41
2:cT:236:GLN:HA	2:cT:240:GLU:HB3	2.03	0.41
2:cU:221:PHE:HD2	2:cU:224:TRP:HE1	1.69	0.41
2:cU:226:LEU:HD21	2:cU:273:LYS:HB3	2.03	0.41
2:cU:232:GLU:HB3	2:cU:236:GLN:HG2	2.03	0.41
2:cU:287:ALA:O	2:cU:288:ASP:CG	2.64	0.41
1:cX:103:ARG:H	2:dH:62:GLN:HG2	1.85	0.41
1:db:96:ASP:HB3	1:db:97:PRO:CD	2.51	0.41
2:dc:187:ARG:HD3	2:dc:194:SER:OG	2.21	0.41
2:dc:225:GLN:O	2:dc:226:LEU:C	2.64	0.41
2:de:13:LYS:HB3	2:dg:43:ALA:HB3	2.02	0.41
2:de:61:GLY:HA2	1:eE:103:ARG:NE	2.35	0.41
2:de:235:ASN:HD21	2:de:290:PRO:HD2	1.86	0.41
2:dg:161:ALA:N	2:dg:162:PRO:CD	2.84	0.41
2:dg:228:ALA:O	2:dg:284:ALA:HB2	2.20	0.41
2:dh:9:ILE:HD11	2:fm:70:ALA:CB	2.51	0.41
2:dh:42:THR:O	2:dh:179:LEU:HD11	2.21	0.41
2:dh:197:LYS:NZ	2:fo:62:GLN:NE2	2.68	0.41
2:di:232:GLU:HB3	2:di:236:GLN:HG2	2.03	0.41
1:dj:65:ARG:HG2	1:dj:96:ASP:CB	2.51	0.41
2:dq:182:LEU:HD23	2:dq:182:LEU:H	1.85	0.41
2:dq:187:ARG:HD3	2:dq:194:SER:OG	2.21	0.41
2:dr:82:SER:HB2	2:dr:206:ALA:H	1.85	0.41
2:ds:43:ALA:HB3	2:dv:13:LYS:HB3	2.03	0.41
2:ds:79:LEU:HG	2:du:59:TRP:CD1	2.56	0.41
2:dt:148:ASP:OD1	2:dt:149:GLY:N	2.53	0.41
2:dt:221:PHE:CG	2:dt:242:VAL:HG13	2.56	0.41
2:dv:143:VAL:HG12	2:dv:144:TYR:N	2.36	0.41
2:dv:236:GLN:HA	2:dv:240:GLU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dw:239:PHE:CZ	2:dw:294:LEU:HD22	2.56	0.41
2:dw:243:TYR:CD1	2:dw:294:LEU:HD21	2.56	0.41
2:dw:249:GLN:HB3	2:dw:257:LEU:HD12	2.03	0.41
1:dy:64:GLU:OE1	1:dy:66:ARG:NH2	2.53	0.41
2:dE:3:ILE:HD11	2:eZ:99:TYR:CE1	2.56	0.41
2:dE:141:HIS:N	2:dE:148:ASP:O	2.54	0.41
2:dE:194:SER:O	2:dE:199:ASP:O	2.39	0.41
2:dE:199:ASP:HA	2:eW:59:TRP:CZ2	2.56	0.41
2:dE:219:VAL:O	2:dE:219:VAL:HG22	2.21	0.41
2:dF:82:SER:HB2	2:dF:206:ALA:H	1.85	0.41
2:dG:44:SER:O	2:dG:177:ARG:NH2	2.54	0.41
2:dI:187:ARG:O	2:dI:187:ARG:CG	2.68	0.41
2:dI:228:ALA:O	2:dI:284:ALA:HB2	2.20	0.41
2:dJ:62:GLN:CD	2:dJ:62:GLN:N	2.79	0.41
2:dK:9:ILE:HD11	2:eX:98:VAL:HG21	2.02	0.41
2:dK:189:LYS:HZ3	2:dK:192:PHE:HE1	1.67	0.41
2:dK:221:PHE:HD2	2:dK:224:TRP:HE1	1.69	0.41
2:dK:227:ALA:HB1	2:dK:229:MET:SD	2.61	0.41
2:dK:287:ALA:O	2:dK:288:ASP:CG	2.64	0.41
1:dM:98:LEU:O	2:dW:62:GLN:NE2	2.54	0.41
1:dM:104:CYS:HA	2:pN:62:GLN:HE22	1.82	0.41
1:dQ:87:ASP:HB3	2:jR:5:THR:HG22	2.02	0.41
1:dR:100:LYS:HZ1	1:oY:100:LYS:HD3	1.79	0.41
2:dS:3:ILE:HD11	2:oU:99:TYR:CE1	2.56	0.41
2:dS:4:ILE:HD11	1:oN:90:LEU:O	2.21	0.41
2:dS:197:LYS:O	2:dS:198:GLU:CG	2.69	0.41
2:dT:8:LEU:HD12	2:dT:8:LEU:N	2.35	0.41
2:dT:224:TRP:CZ3	2:dT:226:LEU:HD13	2.56	0.41
2:dU:4:ILE:HG21	1:pC:91:GLU:HB2	2.03	0.41
2:dU:13:LYS:HB3	2:dW:43:ALA:HB3	2.02	0.41
2:dU:72:GLY:H	2:jR:8:LEU:HD11	1.86	0.41
2:dU:235:ASN:HD21	2:dU:290:PRO:HD2	1.86	0.41
2:dV:197:LYS:HZ2	1:nL:100:LYS:HB3	1.86	0.41
2:dV:276:GLU:OE2	2:dV:280:VAL:HG21	2.21	0.41
2:dX:143:VAL:HG12	2:dX:144:TYR:N	2.36	0.41
2:dY:232:GLU:HB3	2:dY:236:GLN:HG2	2.03	0.41
1:ea:103:ARG:O	2:fE:62:GLN:HB3	2.20	0.41
1:eb:58:PHE:HB3	1:eb:101:VAL:HG21	2.03	0.41
1:eb:63:VAL:HG22	1:eb:75:LYS:N	2.35	0.41
1:ec:98:LEU:O	1:nV:102:GLU:OE1	2.39	0.41
2:eg:4:ILE:HD11	1:nv:90:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eg:13:LYS:NZ	2:nC:90:ASP:O	2.52	0.41
2:eg:59:TRP:CZ2	2:eu:199:ASP:HA	2.56	0.41
2:ei:70:ALA:HB2	2:mm:9:ILE:HD11	2.01	0.41
2:ej:99:TYR:CE1	2:eu:3:ILE:HD11	2.56	0.41
2:ej:171:TYR:CE1	2:ej:175:THR:HG21	2.56	0.41
2:ej:230:SER:O	2:ej:231:THR:HG22	2.20	0.41
2:ek:20:PHE:N	2:ek:20:PHE:CD1	2.87	0.41
2:el:77:ASN:ND2	2:el:209:TYR:O	2.53	0.41
2:em:9:ILE:HD11	2:nA:98:VAL:HG21	2.02	0.41
2:em:64:VAL:O	2:em:64:VAL:HG23	2.19	0.41
2:em:232:GLU:HB3	2:em:236:GLN:HG2	2.03	0.41
1:en:65:ARG:HG2	1:en:96:ASP:HB2	2.02	0.41
1:et:96:ASP:HB3	1:et:97:PRO:CD	2.51	0.41
2:eu:197:LYS:O	2:eu:198:GLU:CG	2.69	0.41
2:eu:225:GLN:O	2:eu:226:LEU:C	2.64	0.41
2:eu:238:ASN:O	2:eu:242:VAL:HG23	2.21	0.41
2:ev:213:VAL:HG12	2:ev:214:ARG:O	2.20	0.41
2:ew:63:ARG:NH2	2:ez:207:ASP:OD1	2.53	0.41
2:ew:79:LEU:HG	2:ey:59:TRP:CD1	2.56	0.41
2:ex:79:LEU:HD11	2:eA:59:TRP:HA	2.02	0.41
2:ex:171:TYR:CE1	2:ex:175:THR:HG21	2.56	0.41
2:ey:187:ARG:O	2:ey:187:ARG:CG	2.68	0.41
2:ez:179:LEU:HD22	2:ez:209:TYR:HD2	1.86	0.41
1:eB:59:VAL:HG12	1:eB:61:ALA:N	2.28	0.41
1:eC:60:ARG:HG2	1:ic:99:LEU:HD22	2.01	0.41
1:eE:98:LEU:O	1:fe:102:GLU:OE1	2.39	0.41
1:eH:62:THR:HG21	1:eH:97:PRO:HB3	2.03	0.41
2:eI:199:ASP:HA	2:go:59:TRP:CZ2	2.56	0.41
2:eI:219:VAL:O	2:eI:219:VAL:HG22	2.21	0.41
2:eJ:171:TYR:CZ	2:gp:20:PHE:N	2.89	0.41
2:eJ:219:VAL:O	2:eJ:219:VAL:CG1	2.66	0.41
2:eJ:224:TRP:CZ3	2:eJ:226:LEU:HD13	2.56	0.41
2:eK:59:TRP:NE1	2:eK:63:ARG:HG3	2.35	0.41
2:eK:63:ARG:NH2	2:eN:207:ASP:OD1	2.53	0.41
2:eL:62:GLN:HG2	1:ib:103:ARG:H	1.85	0.41
2:eL:148:ASP:OD1	2:eL:149:GLY:N	2.53	0.41
2:eL:171:TYR:CE1	2:eL:175:THR:HG21	2.56	0.41
2:eL:221:PHE:CG	2:eL:242:VAL:HG13	2.56	0.41
2:eN:5:THR:HG22	1:gO:87:ASP:HB3	2.02	0.41
2:eN:236:GLN:HA	2:eN:240:GLU:HB3	2.03	0.41
2:eO:249:GLN:HB3	2:eO:257:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eQ:60:ARG:O	1:eQ:61:ALA:HB3	2.21	0.41
1:eQ:64:GLU:OE1	1:eQ:66:ARG:NH2	2.53	0.41
1:eT:82:ASP:OD1	1:eT:83:GLY:N	2.52	0.41
1:eV:57:VAL:CG1	1:eV:59:VAL:HG13	2.50	0.41
1:eV:60:ARG:HD2	1:eV:102:GLU:OE1	2.20	0.41
2:eW:187:ARG:HD3	2:eW:194:SER:OG	2.21	0.41
2:eW:197:LYS:O	2:eW:198:GLU:CG	2.69	0.41
2:eX:219:VAL:O	2:eX:219:VAL:CG1	2.66	0.41
2:eY:70:ALA:CB	2:iN:9:ILE:HD11	2.51	0.41
2:eY:79:LEU:HG	2:fa:59:TRP:CD1	2.56	0.41
2:eY:235:ASN:HD21	2:eY:290:PRO:HD2	1.86	0.41
2:eZ:171:TYR:CE1	2:eZ:175:THR:HG21	2.56	0.41
2:fa:144:TYR:CG	2:fa:145:PRO:HD2	2.55	0.41
2:fb:42:THR:O	2:fb:179:LEU:HD11	2.21	0.41
2:fb:200:ASP:OD1	2:fb:200:ASP:N	2.50	0.41
2:fc:226:LEU:HD21	2:fc:273:LYS:HB3	2.03	0.41
2:fc:249:GLN:HB3	2:fc:257:LEU:HD12	2.03	0.41
2:fc:264:LEU:HB2	2:fc:295:VAL:HG11	2.02	0.41
2:fc:273:LYS:HA	2:fc:273:LYS:HD2	1.93	0.41
1:ff:102:GLU:CD	1:ib:99:LEU:HB3	2.37	0.41
1:fg:99:LEU:HA	2:ii:197:LYS:CE	2.49	0.41
1:fi:63:VAL:HG13	1:fi:74:ASP:HB3	1.99	0.41
1:fj:57:VAL:CG1	1:fj:59:VAL:HG13	2.50	0.41
2:fk:197:LYS:O	2:fk:198:GLU:CG	2.69	0.41
2:fk:199:ASP:HA	2:gC:59:TRP:CZ2	2.56	0.41
2:fl:42:THR:HG22	2:fl:43:ALA:H	1.85	0.41
2:fl:268:THR:HG23	2:nA:247:ARG:HD2	2.03	0.41
2:fm:43:ALA:HB3	2:fp:13:LYS:HB3	2.03	0.41
2:fm:59:TRP:NE1	2:fm:63:ARG:HG3	2.35	0.41
2:fm:235:ASN:HD21	2:fm:290:PRO:HD2	1.86	0.41
2:fn:83:THR:HG23	2:fn:205:MET:CG	2.51	0.41
2:fo:163:ALA:O	2:fo:264:LEU:HD12	2.21	0.41
2:fp:179:LEU:HD22	2:fp:209:TYR:HD2	1.86	0.41
2:fq:221:PHE:HD2	2:fq:224:TRP:HE1	1.69	0.41
1:fu:103:ARG:NE	2:mj:61:GLY:HA2	2.35	0.41
1:fx:57:VAL:CG1	1:fx:59:VAL:HG13	2.50	0.41
2:fy:3:ILE:HD11	2:no:99:TYR:CE1	2.56	0.41
2:fy:59:TRP:CZ2	2:mh:199:ASP:HA	2.56	0.41
2:fy:197:LYS:O	2:fy:198:GLU:CG	2.69	0.41
2:fy:303:LEU:H	2:fy:303:LEU:HD23	1.86	0.41
2:fz:40:SER:HB3	2:fz:179:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fz:171:TYR:CZ	2:nm:20:PHE:N	2.89	0.41
2:fz:213:VAL:HG12	2:fz:214:ARG:O	2.20	0.41
2:fA:79:LEU:HG	2:fC:59:TRP:CD1	2.56	0.41
2:fA:235:ASN:HD21	2:fA:290:PRO:HD2	1.86	0.41
2:fB:197:LYS:HZ2	1:mf:100:LYS:HB3	1.85	0.41
2:fB:221:PHE:CG	2:fB:242:VAL:HG13	2.56	0.41
2:fB:264:LEU:O	2:fB:297:VAL:HG23	2.21	0.41
2:fC:287:ALA:O	2:fC:288:ASP:CG	2.63	0.41
2:fD:143:VAL:HG12	2:fD:144:TYR:N	2.36	0.41
2:fD:281:GLN:O	2:fD:289:ASN:N	2.53	0.41
2:fE:287:ALA:O	2:fE:288:ASP:CG	2.64	0.41
1:fH:63:VAL:HG22	1:fH:75:LYS:N	2.35	0.41
1:fK:87:ASP:HB3	2:kG:5:THR:HG22	2.02	0.41
1:fL:96:ASP:HB3	1:fL:97:PRO:CD	2.51	0.41
2:fM:59:TRP:CZ2	2:ga:199:ASP:HA	2.56	0.41
2:fM:194:SER:O	2:fM:199:ASP:O	2.39	0.41
2:fM:197:LYS:O	2:fM:198:GLU:CG	2.69	0.41
2:fM:235:ASN:ND2	2:fM:291:ASN:OD1	2.47	0.41
2:fN:42:THR:HG22	2:fN:43:ALA:H	1.85	0.41
2:fN:171:TYR:CZ	2:IU:20:PHE:N	2.89	0.41
2:fN:205:MET:CE	2:gb:63:ARG:HD2	2.49	0.41
2:fO:100:GLY:N	2:fO:101:PRO:CD	2.84	0.41
2:fP:79:LEU:HD11	2:fS:59:TRP:HA	2.02	0.41
2:fQ:161:ALA:N	2:fQ:162:PRO:CD	2.84	0.41
2:fR:9:ILE:HD11	2:kD:70:ALA:CB	2.51	0.41
2:fR:236:GLN:HA	2:fR:240:GLU:HB3	2.03	0.41
2:fS:9:ILE:HD11	2:IU:98:VAL:HG21	2.02	0.41
2:fS:232:GLU:HB3	2:fS:236:GLN:HG2	2.03	0.41
2:fS:264:LEU:HB2	2:fS:295:VAL:HG11	2.02	0.41
1:fT:100:LYS:HD3	1:fZ:100:LYS:HZ1	1.85	0.41
1:fU:98:LEU:O	2:ge:62:GLN:NE2	2.54	0.41
2:ga:238:ASN:O	2:ga:242:VAL:HG23	2.21	0.41
2:gb:20:PHE:N	2:ih:171:TYR:CZ	2.89	0.41
2:gc:43:ALA:HB3	2:gf:13:LYS:HB3	2.03	0.41
2:gc:70:ALA:CB	2:mA:9:ILE:HD11	2.51	0.41
2:gc:79:LEU:HG	2:ge:59:TRP:CD1	2.56	0.41
2:gc:224:TRP:CE2	2:gc:242:VAL:HG21	2.56	0.41
2:gd:148:ASP:OD1	2:gd:149:GLY:N	2.53	0.41
2:ge:144:TYR:CG	2:ge:145:PRO:HD2	2.55	0.41
2:ge:163:ALA:O	2:ge:264:LEU:HD12	2.21	0.41
2:ge:182:LEU:HG	2:ge:182:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ge:287:ALA:O	2:ge:288:ASP:CG	2.64	0.41
2:gf:143:VAL:HG12	2:gf:144:TYR:N	2.36	0.41
2:gg:62:GLN:HB3	1:nt:103:ARG:O	2.20	0.41
2:gg:227:ALA:HB1	2:gg:229:MET:SD	2.61	0.41
1:gj:102:GLU:CD	1:gL:99:LEU:HB3	2.37	0.41
1:gn:96:ASP:HB3	1:gn:97:PRO:CD	2.51	0.41
2:go:13:LYS:NZ	2:hV:93:ASP:O	2.54	0.41
2:go:141:HIS:N	2:go:148:ASP:O	2.54	0.41
2:go:182:LEU:H	2:go:182:LEU:HD23	1.84	0.41
2:go:225:GLN:O	2:go:226:LEU:C	2.64	0.41
2:gp:82:SER:HB2	2:gp:206:ALA:H	1.85	0.41
2:gp:224:TRP:CZ3	2:gp:226:LEU:HD13	2.56	0.41
2:gq:43:ALA:HB3	2:gt:13:LYS:HB3	2.03	0.41
2:gr:171:TYR:CE1	2:gr:175:THR:HG21	2.56	0.41
2:gr:221:PHE:CG	2:gr:242:VAL:HG13	2.56	0.41
2:gt:143:VAL:HG12	2:gt:144:TYR:N	2.36	0.41
2:gu:122:LEU:HD23	2:gu:122:LEU:C	2.45	0.41
1:gB:96:ASP:HB3	1:gB:97:PRO:CD	2.51	0.41
2:gC:141:HIS:N	2:gC:148:ASP:O	2.54	0.41
2:gC:194:SER:O	2:gC:199:ASP:O	2.39	0.41
2:gC:238:ASN:O	2:gC:242:VAL:HG23	2.21	0.41
2:gE:235:ASN:HD21	2:gE:290:PRO:HD2	1.86	0.41
2:gG:161:ALA:N	2:gG:162:PRO:CD	2.84	0.41
2:gG:277:VAL:HG12	2:gG:278:VAL:HG13	2.03	0.41
2:gH:143:VAL:HG12	2:gH:144:TYR:N	2.36	0.41
2:gI:226:LEU:HA	2:gI:238:ASN:ND2	2.35	0.41
2:gI:226:LEU:HD21	2:gI:273:LYS:HB3	2.03	0.41
2:gI:287:ALA:O	2:gI:288:ASP:CG	2.64	0.41
1:gJ:57:VAL:O	1:gJ:79:GLY:O	2.38	0.41
2:gQ:3:ILE:HD11	2:ij:99:TYR:CE1	2.56	0.41
2:gQ:194:SER:O	2:gQ:199:ASP:O	2.39	0.41
2:gQ:303:LEU:H	2:gQ:303:LEU:HD23	1.86	0.41
2:gR:63:ARG:HD2	2:ih:205:MET:CE	2.49	0.41
2:gR:224:TRP:CZ3	2:gR:226:LEU:HD13	2.56	0.41
2:gU:277:VAL:HG12	2:gU:278:VAL:HG13	2.03	0.41
2:gV:42:THR:HG22	2:gV:43:ALA:N	2.36	0.41
2:gW:221:PHE:HD2	2:gW:224:TRP:HE1	1.69	0.41
2:gW:264:LEU:HB2	2:gW:295:VAL:HG11	2.02	0.41
2:gW:287:ALA:O	2:gW:288:ASP:CG	2.64	0.41
1:gY:60:ARG:O	1:gY:61:ALA:HB3	2.21	0.41
1:gZ:99:LEU:HB3	1:mq:102:GLU:CD	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ha:90:LEU:O	2:kB:4:ILE:HD11	2.21	0.41
1:hd:62:THR:HG21	1:hd:97:PRO:HB3	2.03	0.41
2:he:3:ILE:HD11	2:II:99:TYR:CE1	2.56	0.41
2:he:197:LYS:O	2:he:198:GLU:CG	2.69	0.41
2:he:199:ASP:HA	2:IF:59:TRP:CZ2	2.56	0.41
2:hF:171:TYR:CZ	2:IG:20:PHE:N	2.89	0.41
2:hF:278:VAL:O	2:hF:278:VAL:HG23	2.19	0.41
2:hG:4:ILE:HG21	1:mQ:91:GLU:HB2	2.03	0.41
2:hG:43:ALA:HB3	2:hj:13:LYS:HB3	2.03	0.41
2:hG:235:ASN:HD21	2:hG:290:PRO:HD2	1.86	0.41
2:hh:171:TYR:CE1	2:hh:175:THR:HG21	2.56	0.41
2:hh:276:GLU:OE2	2:hh:280:VAL:HG21	2.21	0.41
2:hi:161:ALA:N	2:hi:162:PRO:CD	2.84	0.41
2:hi:182:LEU:HG	2:hi:182:LEU:O	2.21	0.41
2:hi:187:ARG:O	2:hi:187:ARG:CG	2.68	0.41
2:hj:197:LYS:NZ	2:OH:62:GLN:NE2	2.68	0.41
1:hn:91:GLU:HB2	2:kR:4:ILE:HG21	2.03	0.41
1:ho:90:LEU:O	2:hF:4:ILE:HD11	2.21	0.41
2:hs:4:ILE:HD11	1:kk:90:LEU:O	2.21	0.41
2:hs:13:LYS:NZ	2:kQ:93:ASP:O	2.54	0.41
2:hs:104:GLN:HA	5:qB:178:PRO:HB2	1.18	0.41
2:hs:170:TRP:CD1	5:qZ:178:PRO:O	2.49	0.41
2:hs:187:ARG:HD3	2:hs:194:SER:OG	2.21	0.41
2:ht:79:LEU:HG	2:hV:59:TRP:CD1	2.56	0.41
2:hu:93:ASP:O	2:hF:13:LYS:NZ	2.54	0.41
2:hV:123:LYS:HD3	2:hV:303:LEU:HB2	2.02	0.41
2:hV:277:VAL:HG12	2:hV:278:VAL:HG13	2.03	0.41
2:hV:287:ALA:O	2:hV:288:ASP:CG	2.63	0.41
2:hw:8:LEU:HD11	2:iY:72:GLY:H	1.86	0.41
2:hX:226:LEU:HD21	2:hX:273:LYS:HB3	2.03	0.41
2:hX:232:GLU:HB3	2:hX:236:GLN:HG2	2.03	0.41
2:hX:243:TYR:CD1	2:hX:294:LEU:HD21	2.56	0.41
1:hy:59:VAL:HG12	1:hy:61:ALA:N	2.28	0.41
1:hA:58:PHE:HB3	1:hA:101:VAL:HG21	2.03	0.41
1:hE:96:ASP:HB3	1:hE:97:PRO:CD	2.51	0.41
2:hF:187:ARG:HD3	2:hF:194:SER:OG	2.21	0.41
2:hG:70:ALA:CB	2:kU:9:ILE:HD11	2.51	0.41
2:hH:62:GLN:HG2	1:kw:103:ARG:H	1.85	0.41
2:hH:148:ASP:OD1	2:hH:149:GLY:N	2.53	0.41
2:hH:221:PHE:CG	2:hH:242:VAL:HG13	2.56	0.41
2:hI:9:ILE:O	2:hI:9:ILE:CG2	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hI:123:LYS:HD3	2:hI:303:LEU:HB2	2.02	0.41
2:hI:163:ALA:O	2:hI:264:LEU:HD12	2.21	0.41
2:hI:182:LEU:HG	2:hI:182:LEU:O	2.21	0.41
2:hK:30:THR:HG23	2:hK:298:LEU:HD13	2.02	0.41
2:hK:249:GLN:HB3	2:hK:257:LEU:HD12	2.03	0.41
1:hO:62:THR:HG22	1:hO:63:VAL:N	2.36	0.41
2:hS:219:VAL:O	2:hS:219:VAL:HG22	2.21	0.41
2:hS:238:ASN:O	2:hS:242:VAL:HG23	2.21	0.41
2:hU:43:ALA:HB3	2:hX:13:LYS:HB3	2.03	0.41
2:hU:79:LEU:HG	2:hW:59:TRP:CD1	2.56	0.41
2:hV:264:LEU:O	2:hV:297:VAL:HG23	2.21	0.41
2:hW:277:VAL:HG12	2:hW:278:VAL:HG13	2.03	0.41
2:hX:179:LEU:HD22	2:hX:209:TYR:HD2	1.86	0.41
2:hX:233:GLU:OE1	2:hX:234:LEU:HD22	2.20	0.41
2:hY:64:VAL:HG23	2:hY:64:VAL:O	2.19	0.41
2:hY:245:ALA:O	2:hY:249:GLN:HG2	2.20	0.41
1:hZ:65:ARG:HG2	1:hZ:96:ASP:CB	2.51	0.41
1:ia:65:ARG:HE	1:ia:96:ASP:HB2	1.86	0.41
2:ig:197:LYS:O	2:ig:198:GLU:CG	2.69	0.41
2:ig:225:GLN:O	2:ig:226:LEU:C	2.64	0.41
2:ih:82:SER:HB2	2:ih:206:ALA:H	1.85	0.41
2:ii:70:ALA:CB	2:nE:9:ILE:HD11	2.51	0.41
2:ii:235:ASN:HD21	2:ii:290:PRO:HD2	1.86	0.41
2:ii:280:VAL:HG22	2:ii:282:ARG:H	1.85	0.41
2:ij:3:ILE:HD13	2:ij:9:ILE:HD13	2.03	0.41
2:ij:144:TYR:HB3	2:ij:145:PRO:CD	2.49	0.41
2:ik:144:TYR:CG	2:ik:145:PRO:HD2	2.55	0.41
2:ik:163:ALA:O	2:ik:264:LEU:HD12	2.21	0.41
2:ik:287:ALA:O	2:ik:288:ASP:CG	2.64	0.41
2:il:9:ILE:HD11	2:nB:70:ALA:CB	2.51	0.41
2:il:62:GLN:CD	2:il:62:GLN:N	2.79	0.41
2:il:143:VAL:HG12	2:il:144:TYR:N	2.36	0.41
2:im:287:ALA:O	2:im:288:ASP:CG	2.64	0.41
1:in:65:ARG:HG2	1:in:96:ASP:CB	2.51	0.41
2:iu:3:ILE:HD11	2:jP:99:TYR:CE1	2.56	0.41
2:iu:225:GLN:O	2:iu:226:LEU:C	2.64	0.41
2:iw:44:SER:O	2:iw:177:ARG:NH2	2.54	0.41
2:ix:62:GLN:HG2	1:pQ:103:ARG:H	1.85	0.41
2:ix:66:LYS:HB2	2:iy:84:VAL:HG12	2.02	0.41
2:ix:79:LEU:HD11	2:iA:59:TRP:HA	2.02	0.41
2:ix:264:LEU:O	2:ix:297:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iy:4:ILE:HG23	1:ll:90:LEU:HB3	2.02	0.41
2:iy:163:ALA:O	2:iy:264:LEU:HD12	2.21	0.41
2:iz:42:THR:O	2:iz:179:LEU:HD11	2.21	0.41
2:iz:62:GLN:CD	2:iz:62:GLN:N	2.79	0.41
2:iA:226:LEU:HA	2:iA:238:ASN:ND2	2.35	0.41
2:iA:227:ALA:HB1	2:iA:229:MET:SD	2.61	0.41
2:iA:243:TYR:CD1	2:iA:294:LEU:HD21	2.56	0.41
1:iH:57:VAL:CG1	1:iH:59:VAL:HG13	2.50	0.41
2:iI:187:ARG:HD3	2:iI:194:SER:OG	2.21	0.41
2:iJ:40:SER:HB3	2:iJ:179:LEU:HD13	2.03	0.41
2:iK:100:GLY:N	2:iK:101:PRO:CD	2.84	0.41
2:iO:62:GLN:HE22	1:pn:104:CYS:HA	1.82	0.41
1:iQ:90:LEU:HB3	2:kr:4:ILE:HG23	2.02	0.41
1:iR:63:VAL:HG22	1:iR:75:LYS:N	2.35	0.41
1:iV:96:ASP:HB3	1:iV:97:PRO:CD	2.51	0.41
2:iW:59:TRP:CZ2	2:jk:199:ASP:HA	2.56	0.41
2:iW:61:GLY:CA	1:jh:103:ARG:HD2	2.40	0.41
2:iY:63:ARG:HE	2:jb:205:MET:CE	2.30	0.41
2:iY:224:TRP:CE2	2:iY:242:VAL:HG21	2.56	0.41
2:iZ:62:GLN:HE21	1:kj:102:GLU:HG2	1.84	0.41
2:iZ:99:TYR:CE1	2:jk:3:ILE:HD11	2.56	0.41
2:ja:9:ILE:O	2:ja:9:ILE:CG2	2.68	0.41
2:jc:122:LEU:HD23	2:jc:122:LEU:C	2.45	0.41
2:jc:232:GLU:HB3	2:jc:236:GLN:HG2	2.03	0.41
1:je:60:ARG:O	1:je:61:ALA:HB3	2.21	0.41
1:jf:58:PHE:HB3	1:jf:101:VAL:HG21	2.03	0.41
1:jg:103:ARG:NE	2:lt:61:GLY:CA	2.83	0.41
2:jk:62:GLN:OE1	1:lo:102:GLU:HG2	2.02	0.41
2:jk:238:ASN:O	2:jk:242:VAL:HG23	2.21	0.41
2:jl:224:TRP:CZ3	2:jl:226:LEU:HD13	2.56	0.41
2:jo:9:ILE:O	2:jo:9:ILE:CG2	2.68	0.41
2:jp:42:THR:O	2:jp:179:LEU:HD11	2.21	0.41
2:jq:227:ALA:HB1	2:jq:229:MET:SD	2.61	0.41
2:jq:232:GLU:HB3	2:jq:236:GLN:HG2	2.03	0.41
2:jq:245:ALA:O	2:jq:249:GLN:HG2	2.20	0.41
1:jr:100:LYS:CE	1:lq:100:LYS:HZ1	2.33	0.41
1:js:60:ARG:O	1:js:61:ALA:HB3	2.21	0.41
1:js:102:GLU:OE1	1:mT:98:LEU:O	2.39	0.41
1:ju:90:LEU:O	2:pV:4:ILE:HD11	2.21	0.41
1:ju:98:LEU:O	1:jU:102:GLU:OE1	2.39	0.41
2:jy:3:ILE:HD11	2:lg:99:TYR:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jj:4:ILE:HD11	1:kZ:90:LEU:O	2.21	0.41
2:jj:199:ASP:HA	2:ld:59:TRP:CZ2	2.56	0.41
2:jz:42:THR:HG22	2:jz:43:ALA:H	1.85	0.41
2:jz:224:TRP:CZ3	2:jz:226:LEU:HD13	2.56	0.41
2:jA:43:ALA:HB3	2:jD:13:LYS:HB3	2.03	0.41
2:jA:100:GLY:N	2:jA:101:PRO:CD	2.84	0.41
2:jC:161:ALA:N	2:jC:162:PRO:CD	2.84	0.41
2:jD:42:THR:HG22	2:jD:43:ALA:N	2.36	0.41
1:jF:65:ARG:HG2	1:jF:96:ASP:CB	2.51	0.41
1:jI:62:THR:HG22	1:jI:63:VAL:N	2.36	0.41
2:jM:167:GLY:N	2:jM:262:ASN:OD1	2.54	0.41
2:jO:43:ALA:HB3	2:jR:13:LYS:HB3	2.03	0.41
2:jP:221:PHE:CG	2:jP:242:VAL:HG13	2.56	0.41
2:jP:234:LEU:HG	2:jP:239:PHE:HB2	2.02	0.41
2:jQ:144:TYR:CG	2:jQ:145:PRO:HD2	2.55	0.41
2:jR:42:THR:HG22	2:jR:43:ALA:N	2.36	0.41
2:jR:62:GLN:N	2:jR:62:GLN:CD	2.79	0.41
2:jR:143:VAL:HG12	2:jR:144:TYR:N	2.36	0.41
1:jU:98:LEU:O	2:ke:62:GLN:NE2	2.54	0.41
2:ka:13:LYS:NZ	2:lu:90:ASP:O	2.52	0.41
2:ka:141:HIS:N	2:ka:148:ASP:O	2.54	0.41
2:ka:182:LEU:H	2:ka:182:LEU:HD23	1.85	0.41
2:kc:70:ALA:CB	2:qa:9:ILE:HD11	2.51	0.41
2:kd:221:PHE:CG	2:kd:242:VAL:HG13	2.56	0.41
2:ke:163:ALA:O	2:ke:264:LEU:HD12	2.21	0.41
2:ke:287:ALA:O	2:ke:288:ASP:CG	2.63	0.41
2:kf:5:THR:HG22	1:pT:87:ASP:HB3	2.02	0.41
2:kf:197:LYS:NZ	2:pZ:62:GLN:NE2	2.68	0.41
2:kg:62:GLN:HB3	1:mR:103:ARG:O	2.20	0.41
2:kg:106:MET:HE3	2:kg:206:ALA:HB3	2.02	0.41
2:kg:226:LEU:HA	2:kg:238:ASN:ND2	2.35	0.41
2:kg:232:GLU:HB3	2:kg:236:GLN:HG2	2.03	0.41
2:kg:287:ALA:O	2:kg:288:ASP:CG	2.64	0.41
2:ko:32:LEU:HD12	5:qF:175:ASP:C	2.39	0.41
2:ko:197:LYS:O	2:ko:198:GLU:CG	2.69	0.41
2:kp:208:GLU:OE1	2:kp:210:ARG:NE	2.53	0.41
2:kp:224:TRP:CE2	2:kp:242:VAL:HG21	2.56	0.41
2:kq:83:THR:HG23	2:kq:205:MET:CG	2.51	0.41
2:kq:221:PHE:CG	2:kq:242:VAL:HG13	2.56	0.41
2:kq:264:LEU:O	2:kq:297:VAL:HG23	2.21	0.41
2:ks:62:GLN:N	2:ks:62:GLN:CD	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ks:236:GLN:HA	2:ks:240:GLU:HB3	2.03	0.41
1:ku:65:ARG:HG2	1:ku:96:ASP:CB	2.51	0.41
1:kw:58:PHE:HB3	1:kw:101:VAL:HG21	2.03	0.41
1:kA:96:ASP:HB3	1:kA:97:PRO:CD	2.51	0.41
2:kB:225:GLN:O	2:kB:226:LEU:C	2.64	0.41
2:kC:20:PHE:N	2:kQ:171:TYR:CZ	2.89	0.41
2:kE:62:GLN:HG2	1:lO:103:ARG:H	1.85	0.41
2:kE:144:TYR:HB3	2:kE:145:PRO:CD	2.50	0.41
2:kE:264:LEU:O	2:kE:297:VAL:HG23	2.21	0.41
2:kF:182:LEU:O	2:kF:182:LEU:HG	2.21	0.41
2:kF:277:VAL:HG12	2:kF:278:VAL:HG13	2.03	0.41
2:kH:232:GLU:HB3	2:kH:236:GLN:HG2	2.03	0.41
2:kH:243:TYR:CD1	2:kH:294:LEU:HD21	2.56	0.41
2:kH:251:ALA:HB2	2:kH:257:LEU:HD21	2.01	0.41
2:kH:287:ALA:O	2:kH:288:ASP:CG	2.64	0.41
1:kK:63:VAL:HG22	1:kK:75:LYS:N	2.35	0.41
2:kP:98:VAL:O	2:kP:99:TYR:HB3	2.21	0.41
2:kQ:20:PHE:N	2:mY:171:TYR:CZ	2.89	0.41
2:kQ:42:THR:HG22	2:kQ:43:ALA:H	1.85	0.41
2:kQ:82:SER:HB2	2:kQ:206:ALA:H	1.85	0.41
2:kT:123:LYS:HD3	2:kT:303:LEU:HB2	2.02	0.41
2:kU:62:GLN:N	2:kU:62:GLN:CD	2.79	0.41
2:kU:248:ASN:O	2:kU:248:ASN:OD1	2.38	0.41
1:kX:64:GLU:OE1	1:kX:66:ARG:NH2	2.53	0.41
1:kX:65:ARG:HE	1:kX:96:ASP:HB2	1.86	0.41
1:lb:63:VAL:HG13	1:lb:74:ASP:HB3	1.99	0.41
2:ld:238:ASN:O	2:ld:242:VAL:HG23	2.21	0.41
2:le:40:SER:HB3	2:le:179:LEU:HD13	2.03	0.41
2:le:171:TYR:CZ	2:mK:20:PHE:N	2.89	0.41
2:le:224:TRP:CZ3	2:le:226:LEU:HD13	2.56	0.41
2:lf:70:ALA:CB	2:nq:9:ILE:HD11	2.51	0.41
2:lf:224:TRP:CE2	2:lf:242:VAL:HG21	2.56	0.41
2:lg:276:GLU:OE2	2:lg:280:VAL:HG21	2.21	0.41
2:lh:9:ILE:O	2:lh:9:ILE:CG2	2.68	0.41
2:lh:228:ALA:O	2:lh:284:ALA:HB2	2.20	0.41
2:li:5:THR:HG22	1:nj:87:ASP:HB3	2.02	0.41
2:li:143:VAL:HG12	2:li:144:TYR:N	2.36	0.41
2:lj:150:THR:C	2:lj:221:PHE:CD1	2.99	0.41
2:lj:227:ALA:HB1	2:lj:229:MET:SD	2.61	0.41
2:lj:243:TYR:CD1	2:lj:294:LEU:HD21	2.56	0.41
2:lj:264:LEU:HB2	2:lj:295:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:lt:79:LEU:HG	2:lv:59:TRP:CD1	2.56	0.41
2:lt:100:GLY:N	2:lt:101:PRO:CD	2.84	0.41
2:lv:123:LYS:HD3	2:lv:303:LEU:HB2	2.02	0.41
2:lv:161:ALA:N	2:lv:162:PRO:CD	2.84	0.41
2:lv:280:VAL:O	2:lv:289:ASN:ND2	2.54	0.41
2:lx:62:GLN:HB3	1:pP:103:ARG:O	2.20	0.41
2:lx:239:PHE:CZ	2:lx:294:LEU:HD22	2.56	0.41
1:lz:64:GLU:OE1	1:lz:66:ARG:NH2	2.53	0.41
1:lA:91:GLU:HB2	2:oF:4:ILE:HG21	2.03	0.41
2:lF:199:ASP:HA	2:mX:59:TRP:CZ2	2.56	0.41
2:lI:171:TYR:CE1	2:lI:175:THR:HG21	2.56	0.41
2:lJ:9:ILE:O	2:lJ:9:ILE:CG2	2.68	0.41
2:lJ:163:ALA:O	2:lJ:264:LEU:HD12	2.21	0.41
2:lK:233:GLU:OE1	2:lK:234:LEU:HD22	2.20	0.41
2:lL:64:VAL:O	2:lL:64:VAL:HG23	2.19	0.41
2:lL:215:SER:OG	2:lL:216:ARG:N	2.52	0.41
1:lN:64:GLU:OE1	1:lN:66:ARG:NH2	2.53	0.41
1:lN:98:LEU:O	2:lX:62:GLN:NE2	2.54	0.41
1:lR:60:ARG:CB	1:lR:102:GLU:HB3	2.50	0.41
1:lS:96:ASP:HB3	1:lS:97:PRO:CD	2.51	0.41
2:lT:98:VAL:O	2:lT:99:TYR:HB3	2.20	0.41
2:lU:40:SER:HB3	2:lU:179:LEU:HD13	2.03	0.41
2:lW:234:LEU:HG	2:lW:239:PHE:HB2	2.02	0.41
2:lZ:64:VAL:O	2:lZ:64:VAL:HG23	2.19	0.41
2:lZ:226:LEU:HD21	2:lZ:273:LYS:HB3	2.03	0.41
2:lZ:287:ALA:O	2:lZ:288:ASP:CG	2.64	0.41
1:mb:65:ARG:HE	1:mb:96:ASP:HB2	1.86	0.41
1:mc:58:PHE:HB3	1:mc:101:VAL:HG21	2.03	0.41
1:mg:96:ASP:HB3	1:mg:97:PRO:CD	2.51	0.41
2:mh:59:TRP:CZ2	2:mv:199:ASP:HA	2.56	0.41
2:mh:197:LYS:O	2:mh:198:GLU:CG	2.69	0.41
2:mi:191:SER:CB	2:mn:191:SER:HB3	2.50	0.41
2:mj:224:TRP:CE2	2:mj:242:VAL:HG21	2.56	0.41
2:mk:148:ASP:OD1	2:mk:149:GLY:N	2.53	0.41
2:mk:171:TYR:CE1	2:mk:175:THR:HG21	2.56	0.41
2:mm:62:GLN:CD	2:mm:62:GLN:N	2.79	0.41
2:mm:144:TYR:HB3	2:mm:145:PRO:HD3	2.01	0.41
2:mn:287:ALA:O	2:mn:288:ASP:CG	2.64	0.41
1:mo:57:VAL:O	1:mo:79:GLY:O	2.38	0.41
1:mp:60:ARG:O	1:mp:61:ALA:HB3	2.21	0.41
1:mr:103:ARG:NE	2:oF:61:GLY:HA2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mv:59:TRP:CZ2	2:oD:199:ASP:HA	2.56	0.41
2:mv:167:GLY:N	2:mv:262:ASN:OD1	2.54	0.41
2:mv:238:ASN:O	2:mv:242:VAL:HG23	2.21	0.41
2:mx:63:ARG:NH2	2:mA:207:ASP:OD1	2.53	0.41
2:mz:143:VAL:HG13	2:mz:144:TYR:N	2.36	0.41
2:mz:144:TYR:CG	2:mz:145:PRO:HD2	2.55	0.41
2:mz:187:ARG:O	2:mz:187:ARG:CG	2.68	0.41
2:mA:196:THR:O	2:mA:196:THR:HG22	2.21	0.41
2:mA:236:GLN:HA	2:mA:240:GLU:HB3	2.03	0.41
2:mB:64:VAL:O	2:mB:64:VAL:HG23	2.19	0.41
2:mB:227:ALA:HB1	2:mB:229:MET:SD	2.61	0.41
2:mB:243:TYR:CD1	2:mB:294:LEU:HD21	2.56	0.41
2:mB:249:GLN:HB3	2:mB:257:LEU:HD12	2.03	0.41
2:mB:264:LEU:HB2	2:mB:295:VAL:HG11	2.02	0.41
1:mC:65:ARG:HG2	1:mC:96:ASP:CB	2.51	0.41
2:mJ:194:SER:O	2:mJ:199:ASP:O	2.39	0.41
2:mJ:303:LEU:H	2:mJ:303:LEU:HD23	1.86	0.41
2:mL:59:TRP:NE1	2:mL:63:ARG:HG3	2.35	0.41
2:mL:63:ARG:NH2	2:mO:207:ASP:OD1	2.53	0.41
2:mN:62:GLN:NE2	2:oW:197:LYS:NZ	2.68	0.41
2:mO:62:GLN:CD	2:mO:62:GLN:N	2.79	0.41
2:mP:239:PHE:CZ	2:mP:294:LEU:HD22	2.56	0.41
2:mP:249:GLN:HB3	2:mP:257:LEU:HD12	2.02	0.41
1:mQ:65:ARG:HG2	1:mQ:96:ASP:CB	2.51	0.41
1:mR:82:ASP:OD1	1:mR:83:GLY:N	2.51	0.41
2:mX:238:ASN:O	2:mX:242:VAL:HG23	2.21	0.41
2:mZ:79:LEU:HG	2:nb:59:TRP:CD1	2.56	0.41
2:na:3:ILE:HD13	2:na:9:ILE:HD13	2.03	0.41
2:na:83:THR:HG23	2:na:205:MET:CG	2.51	0.41
2:na:234:LEU:HG	2:na:239:PHE:HB2	2.02	0.41
2:nc:42:THR:HG22	2:nc:43:ALA:N	2.36	0.41
2:nc:62:GLN:CD	2:nc:62:GLN:N	2.79	0.41
2:nc:143:VAL:HG12	2:nc:144:TYR:N	2.36	0.41
2:nc:233:GLU:OE1	2:nc:234:LEU:HD22	2.20	0.41
2:nd:106:MET:HE3	2:nd:206:ALA:HB3	2.02	0.41
2:nd:227:ALA:HB1	2:nd:229:MET:SD	2.61	0.41
2:nd:228:ALA:HB3	2:nd:273:LYS:HE3	2.02	0.41
1:ne:57:VAL:O	1:ne:79:GLY:O	2.38	0.41
1:ng:58:PHE:HB3	1:ng:101:VAL:HG21	2.03	0.41
1:ni:82:ASP:OD1	1:ni:83:GLY:N	2.52	0.41
1:nj:60:ARG:CB	1:nj:102:GLU:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nl:3:ILE:HD11	2:og:99:TYR:CE1	2.56	0.41
2:nl:194:SER:O	2:nl:199:ASP:O	2.39	0.41
2:nl:303:LEU:H	2:nl:303:LEU:HD23	1.85	0.41
2:nm:191:SER:CB	2:nr:191:SER:HB3	2.50	0.41
2:nm:224:TRP:CZ3	2:nm:226:LEU:HD13	2.56	0.41
2:no:234:LEU:HG	2:no:239:PHE:HB2	2.02	0.41
2:np:277:VAL:HG12	2:np:278:VAL:HG13	2.03	0.41
2:nr:226:LEU:HA	2:nr:238:ASN:ND2	2.35	0.41
1:ny:96:ASP:HB3	1:ny:97:PRO:CD	2.51	0.41
2:nz:141:HIS:N	2:nz:148:ASP:O	2.54	0.41
2:nz:225:GLN:O	2:nz:226:LEU:C	2.64	0.41
2:nA:8:LEU:HD12	2:nA:8:LEU:N	2.35	0.41
2:nA:224:TRP:CZ3	2:nA:226:LEU:HD13	2.56	0.41
2:nC:171:TYR:CE1	2:nC:175:THR:HG21	2.56	0.41
2:nE:42:THR:HG22	2:nE:43:ALA:N	2.36	0.41
2:nF:106:MET:HE3	2:nF:206:ALA:HB3	2.02	0.41
2:nF:264:LEU:HB2	2:nF:295:VAL:HG11	2.02	0.41
1:nJ:90:LEU:O	2:ob:4:ILE:HD11	2.21	0.41
2:nN:187:ARG:HD3	2:nN:194:SER:OG	2.21	0.41
2:nN:197:LYS:O	2:nN:198:GLU:CG	2.69	0.41
2:nN:303:LEU:H	2:nN:303:LEU:HD23	1.86	0.41
2:nO:201:GLU:O	2:nO:202:GLN:C	2.62	0.41
2:nQ:99:TYR:CE1	2:ob:3:ILE:HD11	2.56	0.41
2:nR:123:LYS:HD3	2:nR:303:LEU:HB2	2.02	0.41
2:nR:161:ALA:N	2:nR:162:PRO:CD	2.84	0.41
2:nR:163:ALA:O	2:nR:264:LEU:HD12	2.21	0.41
2:nR:280:VAL:O	2:nR:289:ASN:ND2	2.54	0.41
2:nT:232:GLU:HB3	2:nT:236:GLN:HG2	2.03	0.41
1:nW:58:PHE:HB3	1:nW:101:VAL:HG21	2.03	0.41
2:ob:219:VAL:O	2:ob:219:VAL:HG22	2.21	0.41
2:ob:238:ASN:O	2:ob:242:VAL:HG23	2.21	0.41
2:oc:224:TRP:CZ3	2:oc:226:LEU:HD13	2.56	0.41
2:oe:221:PHE:CG	2:oe:242:VAL:HG13	2.56	0.41
2:of:182:LEU:HG	2:of:182:LEU:O	2.21	0.41
2:og:77:ASN:ND2	2:og:209:TYR:O	2.53	0.41
2:og:236:GLN:HA	2:og:240:GLU:HB3	2.03	0.41
2:oh:30:THR:HG23	2:oh:298:LEU:HD13	2.02	0.41
2:oh:221:PHE:HE2	2:oh:241:LYS:HE3	1.86	0.41
2:oh:243:TYR:CD1	2:oh:294:LEU:HD21	2.56	0.41
1:ok:95:SER:OG	1:ok:96:ASP:N	2.52	0.41
1:oo:62:THR:HG21	1:oo:97:PRO:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:op:4:ILE:HD11	1:pR:90:LEU:O	2.21	0.41
2:or:61:GLY:CA	1:pR:103:ARG:NE	2.83	0.41
2:or:100:GLY:N	2:or:101:PRO:CD	2.84	0.41
2:ot:123:LYS:HD3	2:ot:303:LEU:HB2	2.02	0.41
2:ot:163:ALA:O	2:ot:264:LEU:HD12	2.21	0.41
2:ot:182:LEU:O	2:ot:182:LEU:HG	2.21	0.41
2:ou:233:GLU:OE1	2:ou:234:LEU:HD22	2.20	0.41
2:ou:236:GLN:HA	2:ou:240:GLU:HB3	2.03	0.41
2:ov:227:ALA:HB1	2:ov:229:MET:SD	2.61	0.41
2:ov:287:ALA:O	2:ov:288:ASP:CG	2.64	0.41
1:ox:98:LEU:O	2:oH:62:GLN:NE2	2.54	0.41
2:oD:98:VAL:O	2:oD:99:TYR:HB3	2.21	0.41
2:oD:219:VAL:O	2:oD:219:VAL:HG22	2.21	0.41
2:oD:238:ASN:O	2:oD:242:VAL:HG23	2.21	0.41
2:oG:171:TYR:CE1	2:oG:175:THR:HG21	2.56	0.41
2:oI:42:THR:O	2:oI:179:LEU:HD11	2.21	0.41
2:oI:62:GLN:N	2:oI:62:GLN:CD	2.79	0.41
2:oI:144:TYR:HB3	2:oI:145:PRO:HD3	2.01	0.41
2:oJ:221:PHE:HE2	2:oJ:241:LYS:HE3	1.86	0.41
1:oK:65:ARG:HG2	1:oK:96:ASP:CB	2.51	0.41
2:oR:303:LEU:HD23	2:oR:303:LEU:H	1.86	0.41
2:oT:63:ARG:NH2	2:oW:207:ASP:OD1	2.53	0.41
2:oU:148:ASP:OD1	2:oU:149:GLY:N	2.53	0.41
2:oV:161:ALA:N	2:oV:162:PRO:CD	2.84	0.41
2:oW:42:THR:O	2:oW:179:LEU:HD11	2.21	0.41
2:oW:233:GLU:OE1	2:oW:234:LEU:HD22	2.20	0.41
1:oY:65:ARG:HG2	1:oY:96:ASP:CB	2.51	0.41
1:oZ:60:ARG:O	1:oZ:61:ALA:HB3	2.21	0.41
1:oZ:98:LEU:O	2:pj:62:GLN:NE2	2.54	0.41
1:oZ:101:VAL:HG22	1:oZ:102:GLU:N	2.35	0.41
2:pf:225:GLN:O	2:pf:226:LEU:C	2.64	0.41
2:pi:234:LEU:HG	2:pi:239:PHE:HB2	2.02	0.41
2:pj:9:ILE:O	2:pj:9:ILE:CG2	2.68	0.41
2:pk:42:THR:HG22	2:pk:43:ALA:N	2.36	0.41
2:pl:226:LEU:HD21	2:pl:273:LYS:HB3	2.03	0.41
2:pl:232:GLU:HB3	2:pl:236:GLN:HG2	2.03	0.41
2:pl:249:GLN:HB3	2:pl:257:LEU:HD12	2.02	0.41
1:ps:96:ASP:HB3	1:ps:97:PRO:CD	2.51	0.41
2:pt:303:LEU:H	2:pt:303:LEU:HD23	1.86	0.41
2:pu:191:SER:CB	2:pz:191:SER:HB3	2.50	0.41
2:pu:224:TRP:CZ3	2:pu:226:LEU:HD13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pv:235:ASN:HD21	2:pv:290:PRO:HD2	1.86	0.41
2:pw:93:ASP:O	2:pH:13:LYS:NZ	2.54	0.41
2:pw:221:PHE:CG	2:pw:242:VAL:HG13	2.56	0.41
2:py:42:THR:O	2:py:179:LEU:HD11	2.21	0.41
2:py:62:GLN:CD	2:py:62:GLN:N	2.79	0.41
2:py:143:VAL:HG12	2:py:144:TYR:N	2.36	0.41
1:pB:65:ARG:HE	1:pB:96:ASP:HB2	1.86	0.41
1:pD:62:THR:HG22	1:pD:63:VAL:N	2.36	0.41
1:pG:96:ASP:HB3	1:pG:97:PRO:CD	2.51	0.41
2:pH:219:VAL:O	2:pH:219:VAL:HG22	2.21	0.41
2:pJ:100:GLY:N	2:pJ:101:PRO:CD	2.84	0.41
2:pJ:280:VAL:HG22	2:pJ:282:ARG:H	1.85	0.41
2:pL:123:LYS:HD3	2:pL:303:LEU:HB2	2.02	0.41
2:pL:161:ALA:N	2:pL:162:PRO:CD	2.84	0.41
2:pM:233:GLU:OE1	2:pM:234:LEU:HD22	2.20	0.41
2:pM:236:GLN:HA	2:pM:240:GLU:HB3	2.03	0.41
2:pM:263:LEU:HD23	2:pM:296:GLN:HE21	1.83	0.41
2:pN:122:LEU:C	2:pN:122:LEU:HD23	2.45	0.41
2:pN:264:LEU:HB2	2:pN:295:VAL:HG11	2.02	0.41
2:pN:299:ASP:O	2:pN:300:THR:OG1	2.36	0.41
1:pO:65:ARG:HG2	1:pO:96:ASP:CB	2.51	0.41
1:pP:64:GLU:OE1	1:pP:66:ARG:NH2	2.53	0.41
1:pP:65:ARG:HE	1:pP:96:ASP:HB2	1.86	0.41
1:pU:62:THR:HG21	1:pU:97:PRO:HB3	2.03	0.41
2:pV:238:ASN:O	2:pV:242:VAL:HG23	2.21	0.41
2:pW:82:SER:HB2	2:pW:206:ALA:H	1.85	0.41
2:pZ:9:ILE:O	2:pZ:9:ILE:CG2	2.68	0.41
2:qa:42:THR:HG22	2:qa:43:ALA:N	2.36	0.41
2:qa:62:GLN:N	2:qa:62:GLN:CD	2.79	0.41
2:qb:226:LEU:HD21	2:qb:273:LYS:HB3	2.03	0.41
2:qb:227:ALA:HB1	2:qb:229:MET:SD	2.61	0.41
2:qb:243:TYR:CD1	2:qb:294:LEU:HD21	2.56	0.41
3:qd:55:GLU:OE1	4:qn:223:ASN:CB	2.69	0.41
3:qd:65:GLY:C	4:qn:10:GLN:CG	2.86	0.41
3:qf:66:GLN:O	3:qf:67:ARG:CG	2.69	0.41
3:qg:95:ARG:HA	3:qg:98:ALA:HB3	2.01	0.41
4:qj:13:ILE:HD11	4:qj:35:MET:SD	2.61	0.41
4:qj:41:VAL:CG2	4:qo:212:PRO:HG2	2.51	0.41
4:qo:27:ARG:NH2	4:qo:79:ASN:OD1	2.52	0.41
4:qo:79:ASN:O	4:qo:83:THR:HG22	2.20	0.41
4:qo:80:LEU:HA	4:qo:83:THR:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qp:35:HIS:HA	5:qp:66:ASP:OD2	2.21	0.41
5:qp:235:ARG:HG2	5:qp:255:VAL:HG13	2.01	0.41
5:qp:385:PRO:O	5:qp:389:ASN:OD1	2.38	0.41
5:qr:258:LEU:O	5:qr:261:ALA:O	2.39	0.41
5:qt:16:GLN:HB3	5:qt:184:GLN:NE2	2.36	0.41
5:qt:85:ILE:HD13	5:qt:331:LEU:HD12	2.02	0.41
5:qt:241:PRO:N	5:qv:268:GLU:OE2	2.51	0.41
5:qt:348:TRP:HB3	5:qt:349:PRO:HD3	2.03	0.41
5:qv:234:ILE:HA	5:qx:262:ALA:O	2.21	0.41
5:qx:42:PRO:CD	6:qC:133:ASP:CG	2.93	0.41
5:qx:139:LEU:HD12	5:qx:139:LEU:N	2.36	0.41
6:qy:8:ASP:HB3	6:qA:39:ARG:NH2	2.34	0.41
5:qz:393:GLU:O	5:qB:408:PRO:HG3	2.20	0.41
5:qB:139:LEU:HD12	5:qB:139:LEU:N	2.36	0.41
5:qB:380:MET:HE3	5:qB:380:MET:HB3	1.91	0.41
5:qB:393:GLU:O	5:qD:408:PRO:HG3	2.20	0.41
5:qF:139:LEU:HD12	5:qF:139:LEU:N	2.36	0.41
5:qF:250:THR:CG2	6:qG:125:VAL:HG22	2.51	0.41
5:qF:252:LEU:HD23	6:qI:126:GLN:HG3	2.00	0.41
5:qF:258:LEU:O	5:qF:261:ALA:O	2.39	0.41
5:qF:393:GLU:O	5:qH:408:PRO:HG3	2.20	0.41
6:qG:8:ASP:HB3	6:qI:39:ARG:NH2	2.35	0.41
5:qJ:158:GLN:OE1	5:qJ:158:GLN:N	2.53	0.41
6:qK:121:VAL:HG13	6:qK:123:ASN:H	1.86	0.41
5:qL:250:THR:CG2	6:qM:125:VAL:HG22	2.51	0.41
5:qL:258:LEU:O	5:qL:261:ALA:O	2.39	0.41
1:ab:102:GLU:CD	1:mE:99:LEU:HB3	2.37	0.41
2:ag:3:ILE:HD11	2:oe:99:TYR:CE1	2.56	0.41
2:ag:4:ILE:HD11	1:nX:90:LEU:O	2.21	0.41
2:ag:59:TRP:CZ2	2:oR:199:ASP:HA	2.56	0.41
2:ag:187:ARG:HD3	2:ag:194:SER:OG	2.21	0.41
2:ag:303:LEU:H	2:ag:303:LEU:HD23	1.86	0.41
2:aj:83:THR:HG23	2:aj:205:MET:CG	2.51	0.41
2:aj:171:TYR:CE1	2:aj:175:THR:HG21	2.56	0.41
2:aj:276:GLU:OE2	2:aj:280:VAL:HG21	2.21	0.41
2:ak:9:ILE:O	2:ak:9:ILE:CG2	2.68	0.41
2:al:9:ILE:HD11	2:fA:70:ALA:CB	2.51	0.41
2:al:179:LEU:HD22	2:al:209:TYR:HD2	1.86	0.41
2:al:196:THR:O	2:al:196:THR:HG22	2.21	0.41
2:am:228:ALA:HB3	2:am:273:LYS:HE3	2.02	0.41
2:am:232:GLU:HB3	2:am:236:GLN:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ao:90:LEU:HB3	2:hW:4:ILE:HG23	2.02	0.41
1:ao:98:LEU:O	2:ax:62:GLN:NE2	2.54	0.41
2:au:59:TRP:CZ2	2:ko:199:ASP:HA	2.56	0.41
2:au:197:LYS:O	2:au:198:GLU:CG	2.69	0.41
2:au:238:ASN:O	2:au:242:VAL:HG23	2.21	0.41
2:av:255:ARG:HG3	2:ay:116:GLU:OE1	2.22	0.41
2:aw:99:TYR:CE1	2:ko:3:ILE:HD11	2.56	0.41
2:ax:226:LEU:HD23	2:ax:226:LEU:C	2.46	0.41
2:az:239:PHE:CZ	2:az:294:LEU:HD22	2.56	0.41
1:aB:64:GLU:OE1	1:aB:66:ARG:NH2	2.53	0.41
1:aF:87:ASP:HB3	2:nc:5:THR:HG22	2.02	0.41
2:aH:4:ILE:HD11	1:jW:90:LEU:O	2.21	0.41
2:aH:98:VAL:O	2:aH:99:TYR:HB3	2.21	0.41
2:aJ:53:PHE:O	2:aJ:255:ARG:NH2	2.43	0.41
2:aJ:79:LEU:HG	2:aL:59:TRP:CD1	2.56	0.41
2:aK:221:PHE:CG	2:aK:242:VAL:HG13	2.56	0.41
2:aM:9:ILE:HD11	2:mZ:70:ALA:CB	2.51	0.41
2:aM:196:THR:HG22	2:aM:196:THR:O	2.21	0.41
1:aO:65:ARG:HG2	1:aO:96:ASP:CB	2.51	0.41
1:aP:60:ARG:O	1:aP:61:ALA:HB3	2.21	0.41
1:aP:65:ARG:HE	1:aP:96:ASP:HB2	1.86	0.41
2:aV:3:ILE:HD11	2:iL:99:TYR:CE1	2.56	0.41
2:aV:59:TRP:CZ2	2:bj:199:ASP:HA	2.56	0.41
2:aV:225:GLN:O	2:aV:226:LEU:C	2.64	0.41
2:aZ:62:GLN:NE2	2:py:197:LYS:NZ	2.68	0.41
2:aZ:123:LYS:HD3	2:aZ:303:LEU:HB2	2.02	0.41
2:ba:89:THR:N	2:ba:200:ASP:OD2	2.36	0.41
2:ba:236:GLN:HA	2:ba:240:GLU:HB3	2.03	0.41
2:bb:239:PHE:CZ	2:bb:294:LEU:HD22	2.56	0.41
1:bc:65:ARG:HG2	1:bc:96:ASP:CB	2.51	0.41
1:bd:98:LEU:O	2:bn:62:GLN:NE2	2.54	0.41
1:bi:96:ASP:HB3	1:bi:97:PRO:CD	2.51	0.41
2:bm:99:TYR:CE1	2:dq:3:ILE:HD11	2.56	0.41
2:bm:221:PHE:CG	2:bm:242:VAL:HG13	2.56	0.41
2:bn:226:LEU:HD23	2:bn:226:LEU:C	2.46	0.41
2:bp:245:ALA:O	2:bp:249:GLN:HG2	2.20	0.41
1:bs:103:ARG:H	2:cb:62:GLN:HG2	1.85	0.41
1:bt:90:LEU:O	2:hS:4:ILE:HD11	2.21	0.41
2:bx:4:ILE:HD11	1:cY:90:LEU:O	2.21	0.41
2:bx:4:ILE:HG22	2:di:69:ALA:HA	2.03	0.41
2:by:8:LEU:HD12	2:by:8:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bz:44:SER:O	2:bz:177:ARG:NH2	2.54	0.41
2:bA:196:THR:HG23	2:hX:187:ARG:NH2	2.36	0.41
2:bD:243:TYR:CD1	2:bD:294:LEU:HD21	2.56	0.41
2:bD:264:LEU:HB2	2:bD:295:VAL:HG11	2.02	0.41
1:bF:60:ARG:O	1:bF:61:ALA:HB3	2.21	0.41
1:bF:64:GLU:OE1	1:bF:66:ARG:NH2	2.53	0.41
1:bH:98:LEU:O	1:gi:102:GLU:OE1	2.39	0.41
1:bJ:100:LYS:HB3	2:hH:197:LYS:HZ2	1.85	0.41
1:bK:62:THR:HG21	1:bK:97:PRO:HB3	2.03	0.41
1:bK:96:ASP:HB3	1:bK:97:PRO:CD	2.51	0.41
2:bL:141:HIS:N	2:bL:148:ASP:O	2.54	0.41
2:bM:43:ALA:HB3	2:bP:13:LYS:HB3	2.03	0.41
2:bP:236:GLN:HA	2:bP:240:GLU:HB3	2.03	0.41
2:bQ:150:THR:C	2:bQ:221:PHE:CD1	2.99	0.41
2:bQ:227:ALA:HB1	2:bQ:229:MET:SD	2.61	0.41
2:bY:4:ILE:HD11	1:dm:90:LEU:O	2.21	0.41
2:bY:98:VAL:O	2:bY:99:TYR:HB3	2.21	0.41
2:bY:303:LEU:H	2:bY:303:LEU:HD23	1.86	0.41
2:cd:42:THR:O	2:cd:179:LEU:HD11	2.21	0.41
1:cf:63:VAL:HG23	1:cf:78:GLN:H	1.84	0.41
1:cl:96:ASP:HB3	1:cl:97:PRO:CD	2.51	0.41
2:cm:4:ILE:HD11	1:iq:90:LEU:O	2.21	0.41
2:cr:236:GLN:HA	2:cr:240:GLU:HB3	2.03	0.41
2:cs:226:LEU:HD21	2:cs:273:LYS:HB3	2.03	0.41
1:cw:90:LEU:O	2:cO:4:ILE:HD11	2.21	0.41
2:cA:4:ILE:HD11	1:pb:90:LEU:O	2.21	0.41
2:cC:100:GLY:N	2:cC:101:PRO:CD	2.84	0.41
2:cD:3:ILE:HD13	2:cD:9:ILE:HD13	2.03	0.41
2:cD:276:GLU:OE2	2:cD:280:VAL:HG21	2.21	0.41
2:cF:42:THR:HG22	2:cF:43:ALA:N	2.36	0.41
1:cI:64:GLU:OE1	1:cI:66:ARG:NH2	2.53	0.41
1:cK:90:LEU:O	2:eW:4:ILE:HD11	2.21	0.41
1:cN:60:ARG:HD2	1:cN:102:GLU:OE1	2.20	0.41
2:cR:234:LEU:HG	2:cR:239:PHE:HB2	2.02	0.41
2:cT:42:THR:HG22	2:cT:43:ALA:N	2.36	0.41
2:cT:179:LEU:HD22	2:cT:209:TYR:HD2	1.86	0.41
2:cU:239:PHE:CZ	2:cU:294:LEU:HD22	2.56	0.41
2:cU:264:LEU:HB2	2:cU:295:VAL:HG11	2.02	0.41
1:cW:64:GLU:OE1	1:cW:66:ARG:NH2	2.53	0.41
2:dc:4:ILE:HD11	1:eE:90:LEU:O	2.21	0.41
2:df:276:GLU:OE2	2:df:280:VAL:HG21	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dg:187:ARG:O	2:dg:187:ARG:CG	2.68	0.41
1:dk:98:LEU:O	2:du:62:GLN:NE2	2.54	0.41
1:dl:102:GLU:CD	1:hN:99:LEU:HB3	2.37	0.41
2:dr:201:GLU:O	2:dr:202:GLN:C	2.62	0.41
2:ds:235:ASN:HD21	2:ds:290:PRO:HD2	1.86	0.41
2:dt:264:LEU:O	2:dt:297:VAL:HG23	2.21	0.41
2:dv:9:ILE:HD11	2:kp:70:ALA:CB	2.51	0.41
2:dv:42:THR:HG22	2:dv:43:ALA:N	2.36	0.41
1:dy:60:ARG:O	1:dy:61:ALA:HB3	2.21	0.41
1:dz:63:VAL:HG22	1:dz:75:LYS:N	2.35	0.41
2:dF:8:LEU:HD12	2:dF:8:LEU:N	2.35	0.41
2:dF:40:SER:HB3	2:dF:179:LEU:HD13	2.03	0.41
2:dG:100:GLY:N	2:dG:101:PRO:CD	2.84	0.41
2:dH:3:ILE:HD13	2:dH:9:ILE:HD13	2.03	0.41
2:dH:99:TYR:CE1	2:pf:3:ILE:HD11	2.56	0.41
2:dH:171:TYR:CE1	2:dH:175:THR:HG21	2.56	0.41
2:dH:276:GLU:OE2	2:dH:280:VAL:HG21	2.21	0.41
2:dI:161:ALA:N	2:dI:162:PRO:CD	2.84	0.41
2:dI:287:ALA:O	2:dI:288:ASP:CG	2.64	0.41
2:dJ:143:VAL:HG12	2:dJ:144:TYR:N	2.36	0.41
2:dJ:200:ASP:N	2:dJ:200:ASP:OD1	2.50	0.41
1:dL:58:PHE:HB3	1:dL:101:VAL:HG13	2.02	0.41
2:dS:167:GLY:N	2:dS:262:ASN:OD1	2.54	0.41
2:dU:63:ARG:NH2	2:dX:207:ASP:OD1	2.53	0.41
2:dU:224:TRP:CE2	2:dU:242:VAL:HG21	2.56	0.41
2:dV:187:ARG:HB2	2:dV:203:VAL:HG12	2.03	0.41
2:dW:182:LEU:HG	2:dW:182:LEU:O	2.21	0.41
2:dX:62:GLN:N	2:dX:62:GLN:CD	2.79	0.41
2:dY:150:THR:C	2:dY:221:PHE:CD1	2.99	0.41
1:dZ:65:ARG:HG2	1:dZ:96:ASP:CB	2.51	0.41
1:ea:98:LEU:O	2:ek:62:GLN:NE2	2.54	0.41
2:eh:63:ARG:HD2	2:nA:205:MET:CE	2.49	0.41
2:eh:171:TYR:CZ	2:nA:20:PHE:N	2.89	0.41
2:ei:4:ILE:HG21	1:ft:91:GLU:HB2	2.03	0.41
2:ei:44:SER:O	2:ei:177:ARG:NH2	2.54	0.41
2:ej:62:GLN:HG2	1:ft:103:ARG:H	1.85	0.41
2:el:143:VAL:HG12	2:el:144:TYR:N	2.36	0.41
2:eu:98:VAL:O	2:eu:99:TYR:HB3	2.21	0.41
2:eu:167:GLY:N	2:eu:262:ASN:OD1	2.54	0.41
2:ew:44:SER:O	2:ew:177:ARG:NH2	2.54	0.41
2:ey:144:TYR:CG	2:ey:145:PRO:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eA:150:THR:C	2:eA:221:PHE:CD1	2.99	0.41
2:eA:221:PHE:HD2	2:eA:224:TRP:HE1	1.69	0.41
2:eA:239:PHE:CZ	2:eA:294:LEU:HD22	2.56	0.41
1:eC:82:ASP:OD1	1:eC:83:GLY:N	2.51	0.41
2:eI:238:ASN:O	2:eI:242:VAL:HG23	2.21	0.41
2:eL:3:ILE:HD13	2:eL:9:ILE:HD13	2.03	0.41
2:eM:228:ALA:O	2:eM:284:ALA:HB2	2.20	0.41
2:eN:179:LEU:HD22	2:eN:209:TYR:HD2	1.86	0.41
2:eO:64:VAL:O	2:eO:64:VAL:HG23	2.19	0.41
2:eO:228:ALA:HB3	2:eO:273:LYS:HE3	2.02	0.41
1:eS:62:THR:HG22	1:eS:63:VAL:N	2.36	0.41
2:eW:167:GLY:N	2:eW:262:ASN:OD1	2.54	0.41
2:eZ:264:LEU:O	2:eZ:297:VAL:HG23	2.21	0.41
2:fc:150:THR:C	2:fc:221:PHE:CD1	2.99	0.41
1:fg:62:THR:HG22	1:fg:63:VAL:N	2.36	0.41
1:fj:60:ARG:HD2	1:fj:102:GLU:OE1	2.20	0.41
1:fj:96:ASP:HB3	1:fj:97:PRO:CD	2.51	0.41
2:fn:171:TYR:CE1	2:fn:175:THR:HG21	2.56	0.41
2:fq:264:LEU:HB2	2:fq:295:VAL:HG11	2.02	0.41
1:fr:65:ARG:HG2	1:fr:96:ASP:CB	2.51	0.41
2:fy:219:VAL:O	2:fy:219:VAL:HG22	2.21	0.41
2:fA:224:TRP:CE2	2:fA:242:VAL:HG21	2.56	0.41
1:fG:65:ARG:HE	1:fG:96:ASP:HB2	1.86	0.41
1:fI:98:LEU:O	1:mp:102:GLU:OE1	2.39	0.41
1:fL:62:THR:HG21	1:fL:97:PRO:HB3	2.02	0.41
2:fN:247:ARG:HD2	2:IU:268:THR:HG23	2.03	0.41
2:fP:171:TYR:CE1	2:fP:175:THR:HG21	2.56	0.41
2:fP:264:LEU:O	2:fP:297:VAL:HG23	2.21	0.41
2:fS:226:LEU:HA	2:fS:238:ASN:ND2	2.35	0.41
2:ga:303:LEU:HD23	2:ga:303:LEU:H	1.86	0.41
2:gd:83:THR:HG23	2:gd:205:MET:CG	2.50	0.41
2:gd:99:TYR:CE1	2:ig:3:ILE:HD11	2.56	0.41
2:ge:9:ILE:O	2:ge:9:ILE:CG2	2.68	0.41
2:ge:143:VAL:HG13	2:ge:144:TYR:N	2.36	0.41
2:gf:196:THR:O	2:gf:196:THR:HG22	2.21	0.41
2:gf:233:GLU:OE1	2:gf:234:LEU:HD22	2.20	0.41
1:gi:65:ARG:HE	1:gi:96:ASP:HB2	1.86	0.41
1:gj:103:ARG:H	2:gT:62:GLN:HG2	1.85	0.41
1:gk:98:LEU:O	1:gK:102:GLU:OE1	2.39	0.41
2:go:98:VAL:O	2:go:99:TYR:HB3	2.21	0.41
2:gp:171:TYR:CZ	2:hT:20:PHE:N	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gq:100:GLY:N	2:gq:101:PRO:CD	2.84	0.41
2:gq:235:ASN:HD21	2:gq:290:PRO:HD2	1.86	0.41
2:gs:4:ILE:HG23	1:gK:90:LEU:HB3	2.02	0.41
2:gu:221:PHE:HE2	2:gu:241:LYS:HE3	1.86	0.41
2:gu:227:ALA:HB1	2:gu:229:MET:SD	2.61	0.41
2:gu:274:ALA:CB	2:gu:297:VAL:HG21	2.51	0.41
2:gu:287:ALA:O	2:gu:288:ASP:CG	2.64	0.41
2:gE:63:ARG:NH2	2:gH:207:ASP:OD1	2.53	0.41
2:gE:100:GLY:N	2:gE:101:PRO:CD	2.84	0.41
2:gF:221:PHE:CG	2:gF:242:VAL:HG13	2.56	0.41
2:gF:264:LEU:O	2:gF:297:VAL:HG23	2.21	0.41
2:gQ:59:TRP:CZ2	2:IT:199:ASP:HA	2.56	0.41
2:gS:224:TRP:CE2	2:gS:242:VAL:HG21	2.56	0.41
2:gT:171:TYR:CE1	2:gT:175:THR:HG21	2.56	0.41
2:gT:196:THR:HG23	2:IY:187:ARG:NH2	2.36	0.41
1:hc:87:ASP:HB3	2:oI:5:THR:HG22	2.02	0.41
2:hf:224:TRP:CZ3	2:hf:226:LEU:HD13	2.56	0.41
2:hf:247:ARG:HD2	2:lG:268:THR:HG23	2.03	0.41
2:hg:59:TRP:NE1	2:hg:63:ARG:HG3	2.35	0.41
2:hh:3:ILE:HD13	2:hh:9:ILE:HD13	2.03	0.41
2:hi:287:ALA:O	2:hi:288:ASP:CG	2.63	0.41
1:hl:57:VAL:O	1:hl:79:GLY:O	2.38	0.41
2:hs:182:LEU:H	2:hs:182:LEU:HD23	1.85	0.41
2:hu:229:MET:HA	2:hu:284:ALA:HB3	2.03	0.41
2:hv:163:ALA:O	2:hv:264:LEU:HD12	2.21	0.41
2:hw:236:GLN:HA	2:hw:240:GLU:HB3	2.03	0.41
1:hB:62:THR:HG22	1:hB:63:VAL:N	2.36	0.41
1:hB:86:SER:O	1:hB:90:LEU:N	2.50	0.41
1:hE:69:ALA:HB1	6:qC:59:PRO:CB	2.42	0.41
2:hF:219:VAL:O	2:hF:219:VAL:HG22	2.21	0.41
2:hG:235:ASN:HD21	2:hG:290:PRO:HD2	1.86	0.41
2:hH:264:LEU:O	2:hH:297:VAL:HG23	2.21	0.41
1:hM:64:GLU:OE1	1:hM:66:ARG:NH2	2.53	0.41
2:hS:226:LEU:O	2:hS:273:LYS:NZ	2.48	0.41
2:hU:224:TRP:CE2	2:hU:242:VAL:HG21	2.56	0.41
2:hU:280:VAL:HG22	2:hU:282:ARG:H	1.85	0.41
2:hY:226:LEU:HA	2:hY:238:ASN:ND2	2.35	0.41
2:hY:287:ALA:O	2:hY:288:ASP:CG	2.64	0.41
2:ii:72:GLY:H	2:nE:8:LEU:HD11	1.86	0.41
2:ij:148:ASP:OD1	2:ij:149:GLY:N	2.53	0.41
2:il:5:THR:HG22	1:nx:87:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:il:233:GLU:OE1	2:il:234:LEU:HD22	2.20	0.41
2:iu:167:GLY:N	2:iu:262:ASN:OD1	2.54	0.41
2:iu:197:LYS:O	2:iu:198:GLU:CG	2.69	0.41
2:iu:199:ASP:HA	2:jM:59:TRP:CZ2	2.56	0.41
2:iu:229:MET:HB3	2:iu:234:LEU:HD22	2.01	0.41
2:iw:197:LYS:CE	1:pR:99:LEU:HA	2.49	0.41
2:iw:208:GLU:OE1	2:iw:210:ARG:NE	2.53	0.41
2:ix:221:PHE:CG	2:ix:242:VAL:HG13	2.56	0.41
2:iA:249:GLN:HB3	2:iA:257:LEU:HD12	2.03	0.41
2:iL:229:MET:HB3	2:iL:234:LEU:HD22	2.01	0.41
2:iJ:42:THR:HG22	2:iJ:43:ALA:H	1.85	0.41
1:iQ:64:GLU:OE1	1:iQ:66:ARG:NH2	2.53	0.41
1:iS:62:THR:HG22	1:iS:63:VAL:N	2.37	0.41
2:iW:141:HIS:N	2:iW:148:ASP:O	2.54	0.41
2:iX:98:VAL:HG21	2:jQ:9:ILE:HD11	2.02	0.41
1:jd:65:ARG:HG2	1:jd:96:ASP:CB	2.51	0.41
2:jM:79:LEU:HG	2:jo:59:TRP:CD1	2.56	0.41
2:jo:163:ALA:O	2:jo:264:LEU:HD12	2.21	0.41
2:jo:277:VAL:HG12	2:jo:278:VAL:HG13	2.03	0.41
1:js:64:GLU:OE1	1:js:66:ARG:NH2	2.53	0.41
1:jx:96:ASP:HB3	1:jx:97:PRO:CD	2.51	0.41
2:jy:303:LEU:H	2:jy:303:LEU:HD23	1.85	0.41
2:jA:44:SER:O	2:jA:177:ARG:NH2	2.54	0.41
2:jB:171:TYR:CE1	2:jB:175:THR:HG21	2.56	0.41
2:jB:276:GLU:OE2	2:jB:280:VAL:HG21	2.21	0.41
2:jC:238:ASN:O	2:jC:242:VAL:HG23	2.21	0.41
2:jD:62:GLN:N	2:jD:62:GLN:CD	2.79	0.41
2:jE:232:GLU:HB3	2:jE:236:GLN:HG2	2.03	0.41
1:jK:100:LYS:HB3	2:pK:197:LYS:HZ2	1.85	0.41
2:jM:141:HIS:N	2:jM:148:ASP:O	2.54	0.41
2:jM:182:LEU:H	2:jM:182:LEU:HD23	1.85	0.41
2:jO:59:TRP:NE1	2:jO:63:ARG:HG3	2.35	0.41
2:jP:83:THR:HG23	2:jP:205:MET:CG	2.51	0.41
1:jT:58:PHE:HB3	1:jT:101:VAL:HG13	2.02	0.41
1:jT:65:ARG:HG2	1:jT:96:ASP:CB	2.51	0.41
2:ka:167:GLY:N	2:ka:262:ASN:OD1	2.54	0.41
2:ka:199:ASP:HA	2:lr:59:TRP:CZ2	2.56	0.41
2:kc:235:ASN:HD21	2:kc:290:PRO:HD2	1.86	0.41
2:kd:264:LEU:O	2:kd:297:VAL:HG23	2.21	0.41
2:ke:228:ALA:O	2:ke:284:ALA:HB2	2.20	0.41
2:kf:42:THR:HG22	2:kf:43:ALA:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kg:9:ILE:HD11	2:ls:98:VAL:HG21	2.02	0.41
2:kg:30:THR:HG23	2:kg:298:LEU:HD13	2.02	0.41
2:kg:64:VAL:O	2:kg:64:VAL:HG23	2.19	0.41
2:kg:122:LEU:HD23	2:kg:122:LEU:C	2.45	0.41
1:kh:65:ARG:HG2	1:kh:96:ASP:HB2	2.02	0.41
2:kq:3:ILE:HD13	2:kq:9:ILE:HD13	2.03	0.41
2:kr:123:LYS:HD3	2:kr:303:LEU:HB2	2.02	0.41
2:ks:42:THR:HG22	2:ks:43:ALA:N	2.36	0.41
2:kt:228:ALA:HB3	2:kt:273:LYS:HE3	2.02	0.41
1:kx:90:LEU:O	2:kP:4:ILE:HD11	2.21	0.41
1:kA:62:THR:HG21	1:kA:97:PRO:HB3	2.02	0.41
2:kB:219:VAL:O	2:kB:219:VAL:HG22	2.21	0.41
2:kE:93:ASP:O	2:kP:13:LYS:NZ	2.54	0.41
2:kE:276:GLU:OE2	2:kE:280:VAL:HG21	2.21	0.41
2:kF:143:VAL:HG13	2:kF:144:TYR:N	2.36	0.41
2:kP:187:ARG:HD3	2:kP:194:SER:OG	2.21	0.41
2:kR:255:ARG:HG3	2:kU:116:GLU:OE1	2.22	0.41
2:kT:187:ARG:O	2:kT:187:ARG:CG	2.68	0.41
2:kU:143:VAL:HG12	2:kU:144:TYR:N	2.36	0.41
2:kV:144:TYR:HH	2:kV:254:GLY:H	1.69	0.41
1:kW:59:VAL:HG12	1:kW:61:ALA:N	2.28	0.41
1:kX:82:ASP:OD1	1:kX:83:GLY:N	2.51	0.41
2:ld:219:VAL:O	2:ld:219:VAL:HG22	2.21	0.41
2:lf:43:ALA:HB3	2:li:13:LYS:HB3	2.03	0.41
2:lg:148:ASP:OD1	2:lg:149:GLY:N	2.53	0.41
2:lh:62:GLN:NE2	2:nq:197:LYS:NZ	2.68	0.41
2:li:62:GLN:N	2:li:62:GLN:CD	2.79	0.41
2:lj:232:GLU:HB3	2:lj:236:GLN:HG2	2.03	0.41
2:lj:287:ALA:O	2:lj:288:ASP:CG	2.64	0.41
1:ll:60:ARG:O	1:ll:61:ALA:HB3	2.21	0.41
2:lu:171:TYR:CE1	2:lu:175:THR:HG21	2.56	0.41
2:lv:182:LEU:HG	2:lv:182:LEU:O	2.21	0.41
2:lw:42:THR:HG22	2:lw:43:ALA:N	2.36	0.41
2:lx:150:THR:C	2:lx:221:PHE:CD1	2.99	0.41
1:lB:62:THR:HG22	1:lB:63:VAL:N	2.36	0.41
1:lE:57:VAL:CG1	1:lE:59:VAL:HG13	2.50	0.41
2:lF:167:GLY:N	2:lF:262:ASN:OD1	2.54	0.41
2:lH:43:ALA:HB3	2:lK:13:LYS:HB3	2.03	0.41
2:lH:44:SER:O	2:lH:177:ARG:NH2	2.54	0.41
2:lH:235:ASN:HD21	2:lH:290:PRO:HD2	1.86	0.41
2:lJ:143:VAL:HG13	2:lJ:144:TYR:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IJ:287:ALA:O	2:IJ:288:ASP:CG	2.64	0.41
2:IL:249:GLN:HB3	2:IL:257:LEU:HD12	2.02	0.41
2:IL:287:ALA:O	2:IL:288:ASP:CG	2.64	0.41
1:IM:65:ARG:HG2	1:IM:96:ASP:CB	2.51	0.41
2:IY:42:THR:HG22	2:IY:43:ALA:N	2.36	0.41
1:mb:103:ARG:O	2:nF:62:GLN:HB3	2.20	0.41
2:mj:79:LEU:HG	2:ml:59:TRP:CD1	2.56	0.41
2:mk:79:LEU:HD11	2:mn:59:TRP:HA	2.02	0.41
2:mm:42:THR:O	2:mm:179:LEU:HD11	2.21	0.41
2:mm:196:THR:O	2:mm:196:THR:HG22	2.21	0.41
2:mm:236:GLN:HA	2:mm:240:GLU:HB3	2.03	0.41
2:mn:221:PHE:HE2	2:mn:241:LYS:HE3	1.86	0.41
2:mn:227:ALA:HB1	2:mn:229:MET:SD	2.61	0.41
1:mp:98:LEU:O	2:mz:62:GLN:NE2	2.54	0.41
2:mx:100:GLY:N	2:mx:101:PRO:CD	2.84	0.41
2:my:264:LEU:O	2:my:297:VAL:HG23	2.21	0.41
2:mA:62:GLN:N	2:mA:62:GLN:CD	2.79	0.41
2:mB:239:PHE:CZ	2:mB:294:LEU:HD22	2.56	0.41
1:mD:64:GLU:OE1	1:mD:66:ARG:NH2	2.53	0.41
2:mJ:225:GLN:O	2:mJ:226:LEU:C	2.64	0.41
2:mK:224:TRP:CZ3	2:mK:226:LEU:HD13	2.56	0.41
2:mL:43:ALA:HB3	2:mO:13:LYS:HB3	2.03	0.41
2:mM:276:GLU:OE2	2:mM:280:VAL:HG21	2.21	0.41
2:mN:143:VAL:HG13	2:mN:144:TYR:N	2.36	0.41
2:mN:226:LEU:HD23	2:mN:226:LEU:C	2.46	0.41
2:mO:196:THR:O	2:mO:196:THR:HG22	2.21	0.41
1:mR:60:ARG:O	1:mR:61:ALA:HB3	2.21	0.41
1:mR:98:LEU:O	2:nb:62:GLN:NE2	2.54	0.41
1:mW:57:VAL:CG1	1:mW:59:VAL:HG13	2.50	0.41
2:mX:187:ARG:HD3	2:mX:194:SER:OG	2.21	0.41
2:mX:197:LYS:O	2:mX:198:GLU:CG	2.69	0.41
2:mZ:63:ARG:HE	2:nc:205:MET:CE	2.30	0.41
1:nf:65:ARG:HE	1:nf:96:ASP:HB2	1.86	0.41
2:nl:141:HIS:N	2:nl:148:ASP:O	2.54	0.41
2:nl:167:GLY:N	2:nl:262:ASN:OD1	2.54	0.41
2:nn:100:GLY:N	2:nn:101:PRO:CD	2.84	0.41
2:nr:182:LEU:O	2:nr:182:LEU:CD1	2.67	0.41
1:nt:64:GLU:OE1	1:nt:66:ARG:NH2	2.53	0.41
2:nz:98:VAL:O	2:nz:99:TYR:HB3	2.20	0.41
2:nz:167:GLY:N	2:nz:262:ASN:OD1	2.54	0.41
2:nC:83:THR:HG23	2:nC:205:MET:CG	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nC:144:TYR:HB3	2:nC:145:PRO:CD	2.50	0.41
2:nC:277:VAL:O	2:nC:289:ASN:ND2	2.48	0.41
2:nN:59:TRP:CZ2	2:ob:199:ASP:HA	2.56	0.41
2:nP:4:ILE:HG21	1:pa:91:GLU:HB2	2.03	0.41
2:nQ:90:ASP:O	2:ob:13:LYS:NZ	2.52	0.41
2:nQ:171:TYR:CE1	2:nQ:175:THR:HG21	2.56	0.41
2:nT:150:THR:C	2:nT:221:PHE:CD1	2.99	0.41
2:oc:40:SER:HB3	2:oc:179:LEU:HD13	2.03	0.41
2:od:43:ALA:HB3	2:og:13:LYS:HB3	2.03	0.41
2:oe:171:TYR:CE1	2:oe:175:THR:HG21	2.56	0.41
2:of:161:ALA:N	2:of:162:PRO:CD	2.84	0.41
2:og:62:GLN:N	2:og:62:GLN:CD	2.79	0.41
2:oh:245:ALA:O	2:oh:249:GLN:HG2	2.20	0.41
2:oh:249:GLN:HB3	2:oh:257:LEU:HD12	2.03	0.41
2:og:75:ILE:HG21	2:og:177:ARG:NH1	2.32	0.41
2:os:171:TYR:CE1	2:os:175:THR:HG21	2.56	0.41
2:ov:274:ALA:CB	2:ov:297:VAL:HG21	2.51	0.41
1:ow:65:ARG:HG2	1:ow:96:ASP:CB	2.51	0.41
1:oy:58:PHE:HB3	1:oy:101:VAL:HG21	2.03	0.41
1:oc:96:ASP:HB3	1:oc:97:PRO:CD	2.51	0.41
2:od:141:HIS:N	2:od:148:ASP:O	2.54	0.41
2:od:197:LYS:O	2:od:198:GLU:CG	2.69	0.41
2:oe:82:SER:HB2	2:oe:206:ALA:H	1.85	0.41
2:oi:233:GLU:OE1	2:oi:234:LEU:HD22	2.20	0.41
2:oj:226:LEU:HA	2:oj:238:ASN:ND2	2.35	0.41
2:oj:232:GLU:HB3	2:oj:236:GLN:HG2	2.03	0.41
2:oj:287:ALA:O	2:oj:288:ASP:CG	2.64	0.41
2:or:187:ARG:HD3	2:or:194:SER:OG	2.21	0.41
2:ot:224:TRP:CE2	2:ot:242:VAL:HG21	2.56	0.41
2:ou:83:THR:HG23	2:ou:205:MET:CG	2.51	0.41
2:ov:143:VAL:HG13	2:ov:144:TYR:N	2.36	0.41
2:ox:150:THR:C	2:ox:221:PHE:CD1	2.99	0.41
2:ox:239:PHE:CZ	2:ox:294:LEU:HD22	2.56	0.41
2:pg:40:SER:HB3	2:pg:179:LEU:HD13	2.03	0.41
2:ph:63:ARG:NH2	2:pk:207:ASP:OD1	2.53	0.41
2:ph:243:TYR:CE1	2:ph:294:LEU:HD12	2.57	0.41
2:pj:277:VAL:HG12	2:pj:278:VAL:HG13	2.03	0.41
1:pn:65:ARG:HE	1:pn:96:ASP:HB2	1.86	0.41
2:pt:219:VAL:O	2:pt:219:VAL:HG22	2.21	0.41
2:pu:40:SER:HB3	2:pu:179:LEU:HD13	2.03	0.41
2:pv:44:SER:O	2:pv:177:ARG:NH2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pv:79:LEU:HG	2:px:59:TRP:CD1	2.56	0.41
2:pw:171:TYR:CE1	2:pw:175:THR:HG21	2.56	0.41
2:px:161:ALA:N	2:px:162:PRO:CD	2.84	0.41
2:pH:187:ARG:HD3	2:pH:194:SER:OG	2.21	0.41
2:pH:303:LEU:HD23	2:pH:303:LEU:H	1.85	0.41
2:pM:42:THR:HG22	2:pM:43:ALA:N	2.36	0.41
1:pP:82:ASP:OD1	1:pP:83:GLY:N	2.51	0.41
1:pP:98:LEU:O	2:pZ:62:GLN:NE2	2.54	0.41
2:pV:187:ARG:HD3	2:pV:194:SER:OG	2.21	0.41
2:pY:148:ASP:OD1	2:pY:149:GLY:N	2.53	0.41
2:pY:187:ARG:HB2	2:pY:203:VAL:HG12	2.03	0.41
2:pZ:228:ALA:O	2:pZ:284:ALA:HB2	2.20	0.41
2:qb:221:PHE:HE2	2:qb:241:LYS:HE3	1.86	0.41
3:qd:66:GLN:O	3:qd:67:ARG:CG	2.69	0.41
3:qe:66:GLN:CG	4:qm:8:TYR:O	2.69	0.41
4:qm:64:LYS:O	4:qn:55:ALA:CB	2.68	0.41
5:qp:16:GLN:HB3	5:qp:184:GLN:NE2	2.36	0.41
5:qp:262:ALA:O	5:qL:234:ILE:HA	2.21	0.41
6:qq:121:VAL:HG13	6:qq:123:ASN:H	1.86	0.41
5:qr:250:THR:CG2	6:qs:125:VAL:HG22	2.51	0.41
6:qs:112:LEU:HD23	6:qu:58:LEU:HD13	0.46	0.41
5:qt:385:PRO:O	5:qt:389:ASN:OD1	2.38	0.41
5:qv:139:LEU:N	5:qv:139:LEU:HD12	2.36	0.41
5:qx:393:GLU:O	5:qz:408:PRO:HG3	2.20	0.41
5:qz:42:PRO:CD	6:qE:133:ASP:CG	2.93	0.41
5:qB:258:LEU:O	5:qB:261:ALA:O	2.39	0.41
5:qH:73:HIS:O	5:qH:77:GLU:HG2	2.20	0.41
5:qJ:229:ILE:HD13	5:qL:232:LEU:HD21	1.85	0.41
5:qJ:234:ILE:HA	5:qL:262:ALA:O	2.21	0.41
2:ag:167:GLY:N	2:ag:262:ASN:OD1	2.54	0.40
2:ai:44:SER:O	2:ai:177:ARG:NH2	2.54	0.40
2:ak:4:ILE:HG23	1:mD:90:LEU:HB3	2.02	0.40
2:al:236:GLN:HA	2:al:240:GLU:HB3	2.03	0.40
2:am:264:LEU:HB2	2:am:295:VAL:HG11	2.02	0.40
1:aq:62:THR:HG22	1:aq:63:VAL:N	2.36	0.40
1:aq:90:LEU:O	2:ko:4:ILE:HD11	2.21	0.40
1:at:60:ARG:HD2	1:at:102:GLU:OE1	2.20	0.40
2:au:4:ILE:HD11	1:bH:90:LEU:O	2.21	0.40
2:au:199:ASP:HA	2:bL:59:TRP:CZ2	2.56	0.40
2:av:63:ARG:NH2	2:ay:207:ASP:OD1	2.53	0.40
2:aw:234:LEU:HG	2:aw:239:PHE:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ax:161:ALA:N	2:ax:162:PRO:CD	2.84	0.40
2:ay:62:GLN:N	2:ay:62:GLN:CD	2.79	0.40
2:az:150:THR:C	2:az:221:PHE:CD1	2.99	0.40
1:aA:65:ARG:HG2	1:aA:96:ASP:CB	2.51	0.40
1:aD:98:LEU:O	1:hm:102:GLU:OE1	2.39	0.40
2:aI:98:VAL:HG21	2:jc:9:ILE:HD11	2.02	0.40
2:aJ:70:ALA:CB	2:nc:9:ILE:HD11	2.51	0.40
2:aJ:224:TRP:CE2	2:aJ:242:VAL:HG21	2.56	0.40
2:aK:144:TYR:HB3	2:aK:145:PRO:CD	2.49	0.40
2:aK:171:TYR:CE1	2:aK:175:THR:HG21	2.56	0.40
2:aN:64:VAL:O	2:aN:64:VAL:HG23	2.19	0.40
2:aN:274:ALA:CB	2:aN:297:VAL:HG21	2.52	0.40
1:aP:82:ASP:OD1	1:aP:83:GLY:N	2.51	0.40
2:aW:98:VAL:HG21	2:bp:9:ILE:HD11	2.02	0.40
2:aX:44:SER:O	2:aX:177:ARG:NH2	2.54	0.40
2:bb:227:ALA:HB1	2:bb:229:MET:SD	2.61	0.40
1:be:59:VAL:HG13	1:be:77:GLY:HA2	2.04	0.40
1:bf:60:ARG:HB2	1:bf:102:GLU:N	2.37	0.40
2:bj:141:HIS:N	2:bj:148:ASP:O	2.54	0.40
2:bk:193:THR:HG23	2:dq:193:THR:HG22	2.00	0.40
2:bl:243:TYR:CE1	2:bl:294:LEU:HD12	2.57	0.40
2:bm:79:LEU:HD11	2:bp:59:TRP:HA	2.02	0.40
2:bn:62:GLN:NE2	2:jp:197:LYS:NZ	2.68	0.40
2:bn:123:LYS:HD3	2:bn:303:LEU:HB2	2.02	0.40
2:bn:182:LEU:O	2:bn:182:LEU:HG	2.21	0.40
2:bo:62:GLN:N	2:bo:62:GLN:CD	2.79	0.40
2:bo:233:GLU:OE1	2:bo:234:LEU:HD22	2.20	0.40
2:bp:221:PHE:HD2	2:bp:224:TRP:HE1	1.69	0.40
2:bp:232:GLU:HB3	2:bp:236:GLN:HG2	2.03	0.40
2:bx:199:ASP:HA	2:dc:59:TRP:CZ2	2.56	0.40
2:by:268:THR:HG23	2:hT:247:ARG:HD2	2.03	0.40
2:bz:255:ARG:HG3	2:bC:116:GLU:OE1	2.21	0.40
2:bA:144:TYR:HB3	2:bA:145:PRO:CD	2.49	0.40
2:bA:187:ARG:HB2	2:bA:203:VAL:HG12	2.03	0.40
2:bA:264:LEU:O	2:bA:297:VAL:HG23	2.21	0.40
2:bA:276:GLU:OE2	2:bA:280:VAL:HG21	2.21	0.40
2:bC:187:ARG:NH2	2:df:196:THR:HG23	2.36	0.40
2:bD:144:TYR:HH	2:bD:254:GLY:H	1.68	0.40
2:bD:150:THR:C	2:bD:221:PHE:CD1	2.99	0.40
2:bD:249:GLN:HB3	2:bD:257:LEU:HD12	2.03	0.40
1:bE:65:ARG:HG2	1:bE:96:ASP:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bL:3:ILE:HD11	2:hH:99:TYR:CE1	2.56	0.40
2:bP:8:LEU:HD11	2:IV:72:GLY:H	1.86	0.40
2:bP:62:GLN:N	2:bP:62:GLN:CD	2.79	0.40
1:bS:65:ARG:HE	1:bS:96:ASP:HB2	1.86	0.40
2:bZ:20:PHE:N	2:iJ:171:TYR:CZ	2.89	0.40
2:bZ:224:TRP:CZ3	2:bZ:226:LEU:HD13	2.56	0.40
2:ca:44:SER:O	2:ca:177:ARG:NH2	2.54	0.40
2:ca:255:ARG:HG3	2:cd:116:GLU:OE1	2.22	0.40
2:cb:79:LEU:HD11	2:ce:59:TRP:HA	2.02	0.40
2:cc:62:GLN:NE2	2:hX:197:LYS:NZ	2.68	0.40
2:ce:264:LEU:HB2	2:ce:295:VAL:HG11	2.02	0.40
2:cm:59:TRP:CZ2	2:pt:199:ASP:HA	2.56	0.40
2:cm:225:GLN:O	2:cm:226:LEU:C	2.64	0.40
2:cp:276:GLU:OE2	2:cp:280:VAL:HG21	2.22	0.40
2:cq:280:VAL:O	2:cq:289:ASN:ND2	2.54	0.40
2:cs:243:TYR:CD1	2:cs:294:LEU:HD21	2.56	0.40
1:cu:60:ARG:O	1:cu:61:ALA:HB3	2.21	0.40
1:cu:98:LEU:O	2:cE:62:GLN:NE2	2.54	0.40
2:cB:42:THR:HG22	2:cB:43:ALA:H	1.85	0.40
2:cC:63:ARG:HE	2:cF:205:MET:CE	2.30	0.40
2:cC:72:GLY:H	2:nS:8:LEU:HD11	1.86	0.40
2:cD:196:THR:HG23	2:cT:187:ARG:NH2	2.36	0.40
2:cD:221:PHE:CG	2:cD:242:VAL:HG13	2.56	0.40
2:cD:264:LEU:O	2:cD:297:VAL:HG23	2.21	0.40
2:cE:9:ILE:O	2:cE:9:ILE:CG2	2.68	0.40
2:cG:239:PHE:CZ	2:cG:294:LEU:HD22	2.56	0.40
2:cG:249:GLN:HB3	2:cG:257:LEU:HD12	2.02	0.40
1:cK:60:ARG:HB2	1:cK:102:GLU:N	2.37	0.40
2:cO:194:SER:O	2:cO:199:ASP:O	2.39	0.40
2:cO:219:VAL:O	2:cO:219:VAL:HG22	2.21	0.40
2:cO:238:ASN:O	2:cO:242:VAL:HG23	2.21	0.40
2:cP:224:TRP:CZ3	2:cP:226:LEU:HD13	2.56	0.40
2:cP:268:THR:HG23	2:eX:247:ARG:HD2	2.03	0.40
2:cQ:72:GLY:H	2:pM:8:LEU:HD11	1.86	0.40
2:cU:69:ALA:HA	2:eW:4:ILE:HG22	2.04	0.40
2:cU:274:ALA:CB	2:cU:297:VAL:HG21	2.51	0.40
1:cW:65:ARG:HE	1:cW:96:ASP:HB2	1.86	0.40
1:cY:98:LEU:O	1:dy:102:GLU:OE1	2.39	0.40
2:dc:197:LYS:O	2:dc:198:GLU:CG	2.69	0.40
2:dd:224:TRP:CZ3	2:dd:226:LEU:HD13	2.56	0.40
2:df:187:ARG:HB2	2:df:203:VAL:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:df:264:LEU:O	2:df:297:VAL:HG23	2.21	0.40
2:dh:89:THR:N	2:dh:200:ASP:OD2	2.36	0.40
2:di:9:ILE:HD11	2:eJ:98:VAL:HG21	2.02	0.40
2:di:264:LEU:HB2	2:di:295:VAL:HG11	2.02	0.40
1:dm:62:THR:HG22	1:dm:63:VAL:N	2.36	0.40
1:dp:96:ASP:HB3	1:dp:97:PRO:CD	2.51	0.40
2:ds:255:ARG:HG3	2:dv:116:GLU:OE1	2.21	0.40
2:dt:276:GLU:OE2	2:dt:280:VAL:HG21	2.21	0.40
2:dt:277:VAL:O	2:dt:289:ASN:ND2	2.48	0.40
2:du:123:LYS:HD3	2:du:303:LEU:HB2	2.02	0.40
2:dv:62:GLN:CD	2:dv:62:GLN:N	2.79	0.40
2:dw:273:LYS:HA	2:dw:273:LYS:HD2	1.93	0.40
2:dw:274:ALA:CB	2:dw:297:VAL:HG21	2.52	0.40
2:dE:13:LYS:NZ	2:eZ:93:ASP:O	2.54	0.40
2:dG:224:TRP:CE2	2:dG:242:VAL:HG21	2.56	0.40
2:dG:235:ASN:HD21	2:dG:290:PRO:HD2	1.86	0.40
2:dI:226:LEU:HD23	2:dI:226:LEU:C	2.46	0.40
1:dO:62:THR:HG22	1:dO:63:VAL:N	2.36	0.40
1:dR:60:ARG:HD2	1:dR:102:GLU:OE1	2.20	0.40
2:dT:205:MET:CE	2:nO:63:ARG:HD2	2.49	0.40
2:dT:247:ARG:HD2	2:oS:268:THR:HG23	2.03	0.40
2:dU:79:LEU:HG	2:dW:59:TRP:CD1	2.56	0.40
2:dX:42:THR:HG22	2:dX:43:ALA:N	2.36	0.40
2:dX:89:THR:N	2:dX:200:ASP:OD2	2.36	0.40
2:ej:264:LEU:O	2:ej:297:VAL:HG23	2.21	0.40
2:ek:62:GLN:NE2	2:mm:197:LYS:NZ	2.68	0.40
2:em:287:ALA:O	2:em:288:ASP:CG	2.64	0.40
1:ep:58:PHE:HB3	1:ep:101:VAL:HG21	2.03	0.40
1:eq:62:THR:HG22	1:eq:63:VAL:N	2.36	0.40
2:ev:20:PHE:N	2:gD:171:TYR:CZ	2.89	0.40
2:ew:4:ILE:HG21	1:nI:91:GLU:HB2	2.03	0.40
2:ex:264:LEU:O	2:ex:297:VAL:HG23	2.21	0.40
2:ey:163:ALA:O	2:ey:264:LEU:HD12	2.21	0.40
2:ez:9:ILE:HD11	2:od:70:ALA:CB	2.51	0.40
2:ez:9:ILE:HG22	2:ez:9:ILE:O	2.22	0.40
2:ez:62:GLN:CD	2:ez:62:GLN:N	2.79	0.40
2:ez:196:THR:O	2:ez:196:THR:HG22	2.21	0.40
2:eA:287:ALA:O	2:eA:288:ASP:CG	2.64	0.40
1:eC:60:ARG:O	1:eC:61:ALA:HB3	2.21	0.40
2:eI:187:ARG:HD3	2:eI:194:SER:OG	2.21	0.40
2:eI:194:SER:O	2:eI:199:ASP:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eL:276:GLU:OE2	2:eL:280:VAL:HG21	2.21	0.40
2:eM:238:ASN:O	2:eM:242:VAL:HG23	2.22	0.40
2:eO:232:GLU:HB3	2:eO:236:GLN:HG2	2.03	0.40
1:eQ:65:ARG:HE	1:eQ:96:ASP:HB2	1.86	0.40
2:eY:100:GLY:N	2:eY:101:PRO:CD	2.84	0.40
2:fa:163:ALA:O	2:fa:264:LEU:HD12	2.21	0.40
2:fc:239:PHE:CZ	2:fc:294:LEU:HD22	2.56	0.40
1:fe:98:LEU:O	2:fo:62:GLN:NE2	2.54	0.40
1:ff:59:VAL:HG13	1:ff:77:GLY:HA2	2.04	0.40
1:fg:103:ARG:NE	2:nB:61:GLY:HA2	2.35	0.40
2:fl:20:PHE:N	2:nA:171:TYR:CZ	2.89	0.40
2:fl:171:TYR:CZ	2:gD:20:PHE:N	2.89	0.40
2:fn:3:ILE:HD13	2:fn:9:ILE:HD13	2.03	0.40
2:fn:276:GLU:OE2	2:fn:280:VAL:HG21	2.21	0.40
1:ft:99:LEU:HB3	1:nW:102:GLU:CD	2.37	0.40
1:fx:96:ASP:HB3	1:fx:97:PRO:CD	2.51	0.40
2:fz:82:SER:HB2	2:fz:206:ALA:H	1.85	0.40
2:fA:44:SER:O	2:fA:177:ARG:NH2	2.54	0.40
2:fB:3:ILE:HD13	2:fB:9:ILE:HD13	2.03	0.40
2:fC:143:VAL:HG13	2:fC:144:TYR:N	2.36	0.40
2:fC:163:ALA:O	2:fC:264:LEU:HD12	2.21	0.40
2:fD:62:GLN:N	2:fD:62:GLN:CD	2.79	0.40
2:fE:232:GLU:HB3	2:fE:236:GLN:HG2	2.03	0.40
2:fE:264:LEU:HB2	2:fE:295:VAL:HG11	2.02	0.40
2:fM:4:ILE:HD11	1:IP:90:LEU:O	2.21	0.40
2:fM:199:ASP:HA	2:IT:59:TRP:CZ2	2.56	0.40
2:fM:219:VAL:O	2:fM:219:VAL:HG22	2.21	0.40
2:fM:225:GLN:O	2:fM:226:LEU:C	2.64	0.40
2:fN:224:TRP:CZ3	2:fN:226:LEU:HD13	2.56	0.40
2:fO:79:LEU:HG	2:fQ:59:TRP:CD1	2.56	0.40
2:fP:3:ILE:HD13	2:fP:9:ILE:HD13	2.03	0.40
2:fQ:173:LEU:HD21	2:fQ:219:VAL:HG13	2.04	0.40
1:fU:60:ARG:O	1:fU:61:ALA:HB3	2.21	0.40
2:ga:59:TRP:CZ2	2:ig:199:ASP:HA	2.56	0.40
2:ga:187:ARG:HD3	2:ga:194:SER:OG	2.21	0.40
2:ga:194:SER:O	2:ga:199:ASP:O	2.39	0.40
2:ga:225:GLN:O	2:ga:226:LEU:C	2.64	0.40
2:gc:4:ILE:HG21	1:mc:91:GLU:HB2	2.03	0.40
2:gc:44:SER:O	2:gc:177:ARG:NH2	2.54	0.40
2:gc:100:GLY:N	2:gc:101:PRO:CD	2.84	0.40
2:gf:8:LEU:HD11	2:mx:72:GLY:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gf:9:ILE:HD11	2:mx:70:ALA:CB	2.51	0.40
2:go:197:LYS:O	2:go:198:GLU:CG	2.69	0.40
2:gq:44:SER:O	2:gq:177:ARG:NH2	2.54	0.40
2:gs:226:LEU:HD23	2:gs:226:LEU:C	2.46	0.40
2:gs:280:VAL:O	2:gs:289:ASN:ND2	2.54	0.40
1:gw:60:ARG:O	1:gw:61:ALA:HB3	2.21	0.40
2:gG:280:VAL:O	2:gG:289:ASN:ND2	2.54	0.40
2:gI:239:PHE:CZ	2:gI:294:LEU:HD22	2.56	0.40
1:gK:65:ARG:HE	1:gK:96:ASP:HB2	1.86	0.40
2:gQ:141:HIS:N	2:gQ:148:ASP:O	2.54	0.40
2:gQ:187:ARG:HD3	2:gQ:194:SER:OG	2.21	0.40
2:gR:40:SER:HB3	2:gR:179:LEU:HD13	2.03	0.40
2:gT:99:TYR:CE1	2:IT:3:ILE:HD11	2.56	0.40
2:gT:277:VAL:O	2:gT:289:ASN:ND2	2.48	0.40
2:he:4:ILE:HG22	2:IL:69:ALA:HA	2.03	0.40
2:hF:98:VAL:HG21	2:kH:9:ILE:HD11	2.02	0.40
2:hh:83:THR:HG23	2:hh:205:MET:CG	2.51	0.40
2:hh:93:ASP:O	2:kB:13:LYS:NZ	2.54	0.40
2:hh:221:PHE:CG	2:hh:242:VAL:HG13	2.56	0.40
2:hj:8:LEU:HD11	2:oF:72:GLY:H	1.86	0.40
2:hj:42:THR:HG22	2:hj:43:ALA:N	2.36	0.40
2:hj:62:GLN:CD	2:hj:62:GLN:N	2.79	0.40
2:hk:227:ALA:HB1	2:hk:229:MET:SD	2.61	0.40
1:ho:60:ARG:HB2	1:ho:102:GLU:N	2.37	0.40
2:hs:197:LYS:O	2:hs:198:GLU:CG	2.69	0.40
2:hs:219:VAL:O	2:hs:219:VAL:HG22	2.21	0.40
2:ht:43:ALA:HB3	2:hw:13:LYS:HB3	2.03	0.40
2:hw:187:ARG:NH2	2:kq:196:THR:HG23	2.37	0.40
1:hy:65:ARG:HG2	1:hy:96:ASP:CB	2.51	0.40
1:hz:65:ARG:HE	1:hz:96:ASP:HB2	1.86	0.40
2:hF:32:LEU:HD22	5:qv:178:PRO:CG	2.33	0.40
2:hF:238:ASN:O	2:hF:242:VAL:HG23	2.21	0.40
2:hG:43:ALA:HB3	2:hJ:13:LYS:HB3	2.03	0.40
2:hH:276:GLU:OE2	2:hH:280:VAL:HG21	2.21	0.40
2:hI:226:LEU:HD23	2:hI:226:LEU:C	2.47	0.40
1:hL:65:ARG:HG2	1:hL:96:ASP:CB	2.51	0.40
2:hT:224:TRP:CZ3	2:hT:226:LEU:HD13	2.56	0.40
2:hU:59:TRP:NE1	2:hU:63:ARG:HG3	2.35	0.40
2:hV:187:ARG:HB2	2:hV:203:VAL:HG12	2.03	0.40
2:hV:221:PHE:CG	2:hV:242:VAL:HG13	2.56	0.40
2:hY:227:ALA:HB1	2:hY:229:MET:SD	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ig:98:VAL:O	2:ig:99:TYR:HB3	2.21	0.40
2:ii:100:GLY:N	2:ii:101:PRO:CD	2.84	0.40
2:im:221:PHE:HD2	2:im:224:TRP:HE1	1.69	0.40
2:im:243:TYR:CD1	2:im:294:LEU:HD21	2.56	0.40
1:it:96:ASP:HB3	1:it:97:PRO:CD	2.51	0.40
2:iv:171:TYR:CZ	2:jN:20:PHE:N	2.89	0.40
2:iv:224:TRP:CZ3	2:iv:226:LEU:HD13	2.56	0.40
2:iw:63:ARG:NH2	2:iz:207:ASP:OD1	2.53	0.40
2:iy:182:LEU:O	2:iy:182:LEU:HG	2.21	0.40
2:iA:228:ALA:HB3	2:iA:273:LYS:HE3	2.02	0.40
1:iD:102:GLU:HB3	1:po:99:LEU:HD23	1.95	0.40
1:iE:62:THR:HG22	1:iE:63:VAL:N	2.36	0.40
1:iG:86:SER:O	1:iG:90:LEU:N	2.51	0.40
2:iI:197:LYS:O	2:iI:198:GLU:CG	2.69	0.40
2:iI:238:ASN:O	2:iI:242:VAL:HG23	2.21	0.40
2:iM:163:ALA:O	2:iM:264:LEU:HD12	2.21	0.40
2:iM:182:LEU:HG	2:iM:182:LEU:O	2.21	0.40
2:iN:233:GLU:OE1	2:iN:234:LEU:HD22	2.20	0.40
2:iX:20:PHE:N	2:jI:171:TYR:CZ	2.89	0.40
2:iY:43:ALA:HB3	2:jB:13:LYS:HB3	2.03	0.40
2:ja:226:LEU:HD23	2:ja:226:LEU:C	2.46	0.40
2:jB:196:THR:O	2:jB:196:THR:HG22	2.21	0.40
2:jC:226:LEU:HD21	2:jC:273:LYS:HB3	2.03	0.40
1:jG:90:LEU:O	2:lR:4:ILE:HD11	2.21	0.40
2:jK:167:GLY:N	2:jK:262:ASN:OD1	2.54	0.40
2:jM:63:ARG:NH2	2:jP:207:ASP:OD1	2.53	0.40
2:jM:224:TRP:CE2	2:jM:242:VAL:HG21	2.56	0.40
2:jN:83:THR:HG23	2:jN:205:MET:CG	2.50	0.40
2:jO:182:LEU:HG	2:jO:182:LEU:O	2.21	0.40
2:jP:179:LEU:HD22	2:jP:209:TYR:HD2	1.86	0.40
2:jQ:69:ALA:HA	2:lR:4:ILE:HG22	2.04	0.40
2:jQ:274:ALA:CB	2:jQ:297:VAL:HG21	2.52	0.40
1:jT:99:LEU:HB3	1:mS:102:GLU:CD	2.37	0.40
1:jX:57:VAL:CG1	1:jX:59:VAL:HG13	2.50	0.40
2:jY:197:LYS:O	2:jY:198:GLU:CG	2.69	0.40
2:jZ:8:LEU:HD12	2:jZ:8:LEU:N	2.35	0.40
2:jZ:247:ARG:HD2	2:lE:268:THR:HG23	2.03	0.40
2:jA:70:ALA:CB	2:IK:9:ILE:HD11	2.51	0.40
2:jB:99:TYR:CE1	2:pV:3:ILE:HD11	2.56	0.40
2:jB:197:LYS:HZ2	1:pT:100:LYS:HB3	1.85	0.40
2:jC:226:LEU:HD23	2:jC:226:LEU:C	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jD:9:ILE:O	2:jD:9:ILE:HG22	2.21	0.40
2:jE:9:ILE:HD11	2:le:98:VAL:HG21	2.02	0.40
1:jG:65:ARG:HE	1:jG:96:ASP:HB2	1.86	0.40
1:jG:98:LEU:O	2:jQ:62:GLN:NE2	2.54	0.40
1:jL:60:ARG:HD2	1:jL:102:GLU:OE1	2.20	0.40
1:jL:96:ASP:HB3	1:jL:97:PRO:CD	2.51	0.40
2:jN:86:VAL:O	2:jN:201:GLU:O	2.40	0.40
2:jR:179:LEU:HD22	2:jR:209:TYR:HD2	1.86	0.40
2:jS:239:PHE:CZ	2:jS:294:LEU:HD22	2.56	0.40
1:jY:63:VAL:HG13	1:jY:74:ASP:HB2	2.03	0.40
2:ka:194:SER:O	2:ka:199:ASP:O	2.39	0.40
2:kb:224:TRP:CZ3	2:kb:226:LEU:HD13	2.56	0.40
2:kc:72:GLY:H	2:qa:8:LEU:HD11	1.86	0.40
2:kc:79:LEU:HG	2:ke:59:TRP:CD1	2.56	0.40
2:kc:255:ARG:HG3	2:kf:116:GLU:OE1	2.22	0.40
2:ke:277:VAL:HG12	2:ke:278:VAL:HG13	2.03	0.40
1:kh:65:ARG:HG2	1:kh:96:ASP:CB	2.51	0.40
2:kp:255:ARG:HG3	2:ks:116:GLU:OE1	2.21	0.40
2:kq:276:GLU:OE2	2:kq:280:VAL:HG21	2.22	0.40
2:kr:20:PHE:N	2:kr:20:PHE:CD1	2.87	0.40
2:kt:150:THR:C	2:kt:221:PHE:CD1	2.99	0.40
2:kt:239:PHE:CZ	2:kt:294:LEU:HD22	2.56	0.40
2:kB:167:GLY:N	2:kB:262:ASN:OD1	2.54	0.40
2:kF:20:PHE:N	2:kF:20:PHE:CD1	2.87	0.40
2:kF:161:ALA:N	2:kF:162:PRO:CD	2.84	0.40
2:kG:143:VAL:HG12	2:kG:144:TYR:N	2.36	0.40
2:kH:150:THR:C	2:kH:221:PHE:CD1	2.99	0.40
2:kH:221:PHE:HD2	2:kH:224:TRP:HE1	1.69	0.40
2:kH:274:ALA:CB	2:kH:297:VAL:HG21	2.52	0.40
1:kO:96:ASP:HB3	1:kO:97:PRO:CD	2.51	0.40
2:kP:167:GLY:N	2:kP:262:ASN:OD1	2.54	0.40
2:kP:197:LYS:O	2:kP:198:GLU:CG	2.69	0.40
2:kR:224:TRP:CE2	2:kR:242:VAL:HG21	2.56	0.40
2:kS:90:ASP:O	2:mX:13:LYS:NZ	2.52	0.40
2:kS:197:LYS:HZ2	1:mV:100:LYS:HB3	1.85	0.40
2:kT:163:ALA:O	2:kT:264:LEU:HD12	2.21	0.40
2:kT:238:ASN:O	2:kT:242:VAL:HG23	2.22	0.40
2:kV:227:ALA:HB1	2:kV:229:MET:SD	2.61	0.40
1:kX:98:LEU:O	2:lh:62:GLN:NE2	2.54	0.40
2:ld:4:ILE:HD11	1:mF:90:LEU:O	2.21	0.40
2:ld:194:SER:O	2:ld:199:ASP:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:le:86:VAL:O	2:le:201:GLU:O	2.40	0.40
2:lf:4:ILE:HG21	1:oy:91:GLU:HB2	2.03	0.40
2:lf:44:SER:O	2:lf:177:ARG:NH2	2.54	0.40
2:lf:235:ASN:HD21	2:lf:290:PRO:HD2	1.86	0.40
2:lg:221:PHE:CG	2:lg:242:VAL:HG13	2.56	0.40
2:lh:280:VAL:O	2:lh:289:ASN:ND2	2.54	0.40
2:lj:226:LEU:HD21	2:lj:273:LYS:HB3	2.03	0.40
2:lu:264:LEU:O	2:lu:297:VAL:HG23	2.21	0.40
2:lv:277:VAL:HG12	2:lv:278:VAL:HG13	2.03	0.40
2:lx:299:ASP:O	2:lx:300:THR:OG1	2.36	0.40
1:lE:60:ARG:HD2	1:lE:102:GLU:OE1	2.20	0.40
2:lF:238:ASN:O	2:lF:242:VAL:HG23	2.21	0.40
2:lH:100:GLY:N	2:lH:101:PRO:CD	2.84	0.40
2:lJ:20:PHE:N	2:lJ:20:PHE:CD1	2.87	0.40
2:lK:143:VAL:HG12	2:lK:144:TYR:N	2.36	0.40
2:lK:236:GLN:HA	2:lK:240:GLU:HB3	2.03	0.40
1:lR:86:SER:O	1:lR:90:LEU:N	2.51	0.40
1:lS:60:ARG:HD2	1:lS:102:GLU:OE1	2.20	0.40
2:lZ:264:LEU:HB2	2:lZ:295:VAL:HG11	2.02	0.40
1:ma:65:ARG:HG2	1:ma:96:ASP:CB	2.51	0.40
2:mh:187:ARG:HD3	2:mh:194:SER:OG	2.21	0.40
2:mh:194:SER:O	2:mh:199:ASP:O	2.39	0.40
2:mi:82:SER:HB2	2:mi:206:ALA:H	1.85	0.40
2:ml:277:VAL:HG12	2:ml:278:VAL:HG13	2.03	0.40
2:mn:232:GLU:HB3	2:mn:236:GLN:HG2	2.03	0.40
1:mo:65:ARG:HG2	1:mo:96:ASP:CB	2.51	0.40
2:mv:194:SER:O	2:mv:199:ASP:O	2.39	0.40
2:mw:141:HIS:CE1	2:mw:150:THR:HG1	2.36	0.40
2:mw:205:MET:CE	2:oE:63:ARG:HD2	2.49	0.40
2:mx:79:LEU:HG	2:mz:59:TRP:CD1	2.56	0.40
2:my:83:THR:HG23	2:my:205:MET:CG	2.50	0.40
2:my:187:ARG:HB2	2:my:203:VAL:HG12	2.04	0.40
2:mz:287:ALA:O	2:mz:288:ASP:CG	2.63	0.40
2:mL:61:GLY:HA2	1:ol:103:ARG:NE	2.35	0.40
2:mN:4:ILE:HG23	1:nf:90:LEU:HB3	2.02	0.40
2:mO:143:VAL:HG12	2:mO:144:TYR:N	2.36	0.40
2:mO:179:LEU:HD22	2:mO:209:TYR:HD2	1.86	0.40
2:mP:221:PHE:HD2	2:mP:224:TRP:HE1	1.69	0.40
2:mX:219:VAL:O	2:mX:219:VAL:HG22	2.21	0.40
2:nb:20:PHE:N	2:nb:20:PHE:CD1	2.87	0.40
1:nh:62:THR:HG22	1:nh:63:VAL:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:nk:60:ARG:HD2	1:nk:102:GLU:OE1	2.20	0.40
1:nk:62:THR:HG21	1:nk:97:PRO:HB3	2.02	0.40
2:nl:197:LYS:O	2:nl:198:GLU:CG	2.69	0.40
2:nl:199:ASP:HA	2:od:59:TRP:CZ2	2.56	0.40
2:nm:171:TYR:CZ	2:oe:20:PHE:N	2.89	0.40
2:nn:224:TRP:CE2	2:nn:242:VAL:HG21	2.56	0.40
2:nr:150:THR:C	2:nr:221:PHE:CD1	2.99	0.40
2:nr:226:LEU:HD21	2:nr:273:LYS:HB3	2.03	0.40
2:nB:44:SER:O	2:nB:177:ARG:NH2	2.54	0.40
2:nC:276:GLU:OE2	2:nC:280:VAL:HG21	2.21	0.40
2:nF:150:THR:C	2:nF:221:PHE:CD1	2.99	0.40
1:nG:65:ARG:HG2	1:nG:96:ASP:CB	2.51	0.40
1:nH:60:ARG:O	1:nH:61:ALA:HB3	2.21	0.40
1:nH:98:LEU:O	2:nR:62:GLN:NE2	2.54	0.40
1:nH:102:GLU:OE1	1:pb:98:LEU:O	2.39	0.40
1:nM:62:THR:HG21	1:nM:97:PRO:HB3	2.03	0.40
2:nO:224:TRP:CZ3	2:nO:226:LEU:HD13	2.56	0.40
2:nP:224:TRP:CE2	2:nP:242:VAL:HG21	2.56	0.40
2:nR:226:LEU:HD23	2:nR:226:LEU:C	2.47	0.40
2:ob:197:LYS:O	2:ob:198:GLU:CG	2.69	0.40
2:oe:83:THR:HG23	2:oe:205:MET:CG	2.51	0.40
2:oe:187:ARG:HB2	2:oe:203:VAL:HG12	2.03	0.40
2:of:20:PHE:CD1	2:of:20:PHE:N	2.87	0.40
2:of:123:LYS:HD3	2:of:303:LEU:HB2	2.02	0.40
2:og:179:LEU:HD22	2:og:209:TYR:HD2	1.86	0.40
2:oh:144:TYR:HH	2:oh:254:GLY:H	1.69	0.40
1:oj:64:GLU:OE1	1:oj:66:ARG:NH2	2.53	0.40
2:op:197:LYS:O	2:op:198:GLU:CG	2.69	0.40
2:op:219:VAL:O	2:op:219:VAL:HG22	2.21	0.40
2:op:303:LEU:H	2:op:303:LEU:HD23	1.86	0.40
2:og:44:SER:OG	2:og:45:ASN:N	2.51	0.40
2:og:86:VAL:O	2:og:201:GLU:O	2.40	0.40
2:or:79:LEU:HG	2:ot:59:TRP:CD1	2.56	0.40
2:or:235:ASN:HD21	2:or:290:PRO:HD2	1.86	0.40
2:ou:9:ILE:HG22	2:ou:9:ILE:O	2.22	0.40
2:ov:62:GLN:HB3	1:ol:103:ARG:O	2.20	0.40
2:od:225:GLN:O	2:od:226:LEU:C	2.64	0.40
2:of:43:ALA:HB3	2:oi:13:LYS:HB3	2.03	0.40
2:og:187:ARG:HB2	2:og:203:VAL:HG12	2.03	0.40
2:oh:277:VAL:HG12	2:oh:278:VAL:HG13	2.03	0.40
1:ol:64:GLU:OE1	1:ol:66:ARG:NH2	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oQ:86:SER:O	1:oQ:90:LEU:N	2.47	0.40
2:oR:141:HIS:N	2:oR:148:ASP:O	2.54	0.40
2:oT:43:ALA:HB3	2:oW:13:LYS:HB3	2.03	0.40
2:oT:59:TRP:NE1	2:oT:63:ARG:HG3	2.35	0.40
2:oU:234:LEU:HG	2:oU:239:PHE:HB2	2.02	0.40
2:oU:264:LEU:O	2:oU:297:VAL:HG23	2.21	0.40
2:oW:143:VAL:HG12	2:oW:144:TYR:N	2.36	0.40
2:oX:226:LEU:HD21	2:oX:273:LYS:HB3	2.03	0.40
2:ph:43:ALA:HB3	2:pk:13:LYS:HB3	2.03	0.40
2:ph:44:SER:O	2:ph:177:ARG:NH2	2.54	0.40
2:ph:79:LEU:HG	2:pj:59:TRP:CD1	2.56	0.40
2:pj:143:VAL:HG13	2:pj:144:TYR:N	2.36	0.40
2:pl:274:ALA:CB	2:pl:297:VAL:HG21	2.52	0.40
1:pn:98:LEU:O	2:px:62:GLN:NE2	2.54	0.40
2:pv:63:ARG:NH2	2:py:207:ASP:OD1	2.53	0.40
2:pv:243:TYR:CE1	2:pv:294:LEU:HD12	2.57	0.40
2:px:123:LYS:HD3	2:px:303:LEU:HB2	2.02	0.40
2:py:236:GLN:HA	2:py:240:GLU:HB3	2.03	0.40
2:pz:287:ALA:O	2:pz:288:ASP:CG	2.64	0.40
1:pG:60:ARG:HD2	1:pG:102:GLU:OE1	2.20	0.40
2:pH:98:VAL:O	2:pH:99:TYR:HB3	2.21	0.40
2:pH:141:HIS:N	2:pH:148:ASP:O	2.54	0.40
2:pH:238:ASN:O	2:pH:242:VAL:HG23	2.21	0.40
2:pI:224:TRP:CZ3	2:pI:226:LEU:HD13	2.56	0.40
2:pK:276:GLU:OE2	2:pK:280:VAL:HG21	2.21	0.40
2:pM:62:GLN:CD	2:pM:62:GLN:N	2.79	0.40
2:pM:248:ASN:O	2:pM:248:ASN:OD1	2.38	0.40
1:pU:96:ASP:HB3	1:pU:97:PRO:CD	2.51	0.40
2:pV:167:GLY:N	2:pV:262:ASN:OD1	2.54	0.40
2:pW:8:LEU:HD12	2:pW:8:LEU:N	2.35	0.40
2:pX:44:SER:O	2:pX:177:ARG:NH2	2.54	0.40
2:pZ:238:ASN:O	2:pZ:242:VAL:HG23	2.22	0.40
2:qb:274:ALA:CB	2:qb:297:VAL:HG21	2.51	0.40
1:qc:65:ARG:HG2	1:qc:96:ASP:HB2	2.02	0.40
3:qf:66:GLN:CA	4:ql:8:TYR:HD2	2.33	0.40
3:qh:67:ARG:N	4:qj:8:TYR:CD2	2.90	0.40
3:qh:68:ALA:CB	4:qj:8:TYR:CE2	3.04	0.40
5:qp:393:GLU:O	5:qr:408:PRO:HG3	2.20	0.40
5:qv:241:PRO:N	5:qx:268:GLU:OE2	2.51	0.40
5:qx:16:GLN:HB3	5:qx:184:GLN:NE2	2.36	0.40
6:qA:17:LYS:HD2	6:qC:81:ILE:HG21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:qA:83:LEU:HD11	6:qA:89:VAL:HG13	2.00	0.40
6:qA:121:VAL:HG13	6:qA:123:ASN:H	1.86	0.40
5:qD:16:GLN:HB3	5:qD:184:GLN:NE2	2.36	0.40
5:qD:385:PRO:O	5:qD:389:ASN:OD1	2.38	0.40
6:qG:112:LEU:HD21	6:qI:58:LEU:HD12	0.51	0.40
6:qG:121:VAL:HG13	6:qG:123:ASN:H	1.86	0.40
5:qJ:392:LEU:HD12	5:qL:400:TYR:HE1	1.58	0.40
5:qL:384:ILE:N	5:qL:385:PRO:HD2	2.37	0.40
1:af:96:ASP:HB3	1:af:97:PRO:CD	2.51	0.40
2:ag:141:HIS:N	2:ag:148:ASP:O	2.54	0.40
2:aj:187:ARG:HB2	2:aj:203:VAL:HG12	2.03	0.40
2:ak:107:GLY:CA	2:ak:184:TYR:CZ	2.97	0.40
2:ak:226:LEU:HD23	2:ak:226:LEU:C	2.47	0.40
2:al:42:THR:HG22	2:al:43:ALA:N	2.36	0.40
2:am:9:ILE:HD11	2:oc:98:VAL:HG21	2.02	0.40
2:am:287:ALA:O	2:am:288:ASP:CG	2.64	0.40
2:au:3:ILE:HD11	2:bN:99:TYR:CE1	2.56	0.40
2:au:167:GLY:N	2:au:262:ASN:OD1	2.54	0.40
2:au:303:LEU:HD23	2:au:303:LEU:H	1.86	0.40
2:av:59:TRP:NE1	2:av:63:ARG:HG3	2.35	0.40
2:aw:93:ASP:O	2:ko:13:LYS:NZ	2.54	0.40
2:az:221:PHE:HD2	2:az:224:TRP:HE1	1.69	0.40
2:az:226:LEU:HD21	2:az:273:LYS:HB3	2.03	0.40
2:az:243:TYR:CD1	2:az:294:LEU:HD21	2.55	0.40
2:az:264:LEU:HB2	2:az:295:VAL:HG11	2.02	0.40
1:aB:98:LEU:O	2:aL:62:GLN:NE2	2.54	0.40
1:aD:60:ARG:HB2	1:aD:102:GLU:N	2.37	0.40
2:aH:238:ASN:O	2:aH:242:VAL:HG23	2.21	0.40
2:aI:20:PHE:N	2:iX:171:TYR:CZ	2.89	0.40
2:aI:86:VAL:O	2:aI:201:GLU:O	2.40	0.40
2:aJ:43:ALA:HB3	2:aM:13:LYS:HB3	2.03	0.40
2:aJ:243:TYR:CE1	2:aJ:294:LEU:HD12	2.57	0.40
2:aL:280:VAL:O	2:aL:289:ASN:ND2	2.54	0.40
2:aM:187:ARG:NH2	2:kd:196:THR:HG23	2.36	0.40
2:aN:221:PHE:HE2	2:aN:241:LYS:HE3	1.86	0.40
2:aN:239:PHE:CZ	2:aN:294:LEU:HD22	2.56	0.40
1:aQ:58:PHE:HB3	1:aQ:101:VAL:HG21	2.03	0.40
1:aU:96:ASP:HB3	1:aU:97:PRO:CD	2.51	0.40
2:aV:219:VAL:O	2:aV:219:VAL:HG22	2.21	0.40
2:aZ:238:ASN:O	2:aZ:242:VAL:HG23	2.22	0.40
2:ba:143:VAL:HG12	2:ba:144:TYR:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ba:187:ARG:NH2	2:iL:196:THR:HG23	2.36	0.40
2:bb:221:PHE:HD2	2:bb:224:TRP:HE1	1.69	0.40
2:bb:287:ALA:O	2:bb:288:ASP:CG	2.64	0.40
2:bj:187:ARG:HD3	2:bj:194:SER:OG	2.21	0.40
2:bj:303:LEU:HD23	2:bj:303:LEU:H	1.86	0.40
2:bl:44:SER:O	2:bl:177:ARG:NH2	2.54	0.40
2:bm:171:TYR:CE1	2:bm:175:THR:HG21	2.56	0.40
2:bn:287:ALA:O	2:bn:288:ASP:CG	2.63	0.40
2:bo:8:LEU:HD11	2:jm:72:GLY:H	1.86	0.40
2:bo:9:ILE:O	2:bo:9:ILE:HG22	2.22	0.40
1:bw:96:ASP:HB3	1:bw:97:PRO:CD	2.51	0.40
2:by:224:TRP:CZ3	2:by:226:LEU:HD13	2.56	0.40
2:bA:171:TYR:CE1	2:bA:175:THR:HG21	2.56	0.40
2:bC:8:LEU:HD11	2:dG:72:GLY:H	1.86	0.40
2:bC:42:THR:O	2:bC:179:LEU:HD11	2.21	0.40
2:bC:200:ASP:OD1	2:bC:200:ASP:N	2.50	0.40
2:bD:287:ALA:O	2:bD:288:ASP:CG	2.64	0.40
2:bL:187:ARG:HD3	2:bL:194:SER:OG	2.21	0.40
2:bM:44:SER:O	2:bM:177:ARG:NH2	2.54	0.40
2:bM:224:TRP:CE2	2:bM:242:VAL:HG21	2.56	0.40
2:bP:179:LEU:HD22	2:bP:209:TYR:HD2	1.86	0.40
1:bX:86:SER:O	1:bX:90:LEU:N	2.47	0.40
2:bY:197:LYS:O	2:bY:198:GLU:CG	2.69	0.40
2:ca:70:ALA:CB	2:hX:9:ILE:HD11	2.51	0.40
2:cb:171:TYR:CE1	2:cb:175:THR:HG21	2.56	0.40
2:cb:197:LYS:HZ2	1:iG:100:LYS:HB3	1.85	0.40
2:cd:187:ARG:NH2	2:dt:196:THR:HG23	2.36	0.40
2:ce:182:LEU:O	2:ce:182:LEU:CD1	2.67	0.40
1:cg:102:GLU:OE1	1:jg:98:LEU:O	2.39	0.40
2:cm:197:LYS:O	2:cm:198:GLU:CG	2.69	0.40
2:cp:83:THR:HG23	2:cp:205:MET:CG	2.51	0.40
2:cp:99:TYR:CE1	2:pt:3:ILE:HD11	2.56	0.40
2:cq:123:LYS:HD3	2:cq:303:LEU:HB2	2.02	0.40
2:cr:179:LEU:HD22	2:cr:209:TYR:HD2	1.86	0.40
2:cr:187:ARG:NH2	2:ix:196:THR:HG23	2.37	0.40
2:cr:233:GLU:OE1	2:cr:234:LEU:HD22	2.20	0.40
2:cs:69:ALA:HA	2:pt:4:ILE:HG22	2.04	0.40
1:ct:65:ARG:HG2	1:ct:96:ASP:CB	2.51	0.40
2:cA:225:GLN:O	2:cA:226:LEU:C	2.64	0.40
2:cA:238:ASN:O	2:cA:242:VAL:HG23	2.21	0.40
2:cB:20:PHE:N	2:cP:171:TYR:CZ	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cB:40:SER:HB3	2:cB:179:LEU:HD13	2.03	0.40
2:cE:123:LYS:HD3	2:cE:303:LEU:HB2	2.02	0.40
2:cE:226:LEU:HD23	2:cE:226:LEU:C	2.47	0.40
2:cE:277:VAL:HG12	2:cE:278:VAL:HG13	2.03	0.40
2:cF:9:ILE:O	2:cF:9:ILE:HG22	2.22	0.40
2:cF:62:GLN:CD	2:cF:62:GLN:N	2.79	0.40
2:cF:236:GLN:HA	2:cF:240:GLU:HB3	2.03	0.40
2:cG:243:TYR:CD1	2:cG:294:LEU:HD21	2.56	0.40
1:cI:98:LEU:O	2:cS:62:GLN:NE2	2.54	0.40
1:cI:102:GLU:OE1	1:pp:98:LEU:O	2.39	0.40
1:cI:103:ARG:O	2:pz:62:GLN:HB3	2.20	0.40
1:cJ:91:GLU:HB2	2:iK:4:ILE:HG21	2.03	0.40
1:cK:62:THR:HG22	1:cK:63:VAL:N	2.36	0.40
2:cO:59:TRP:CZ2	2:eW:199:ASP:HA	2.56	0.40
2:cO:98:VAL:O	2:cO:99:TYR:HB3	2.21	0.40
2:cR:196:THR:HG23	2:fb:187:ARG:NH2	2.37	0.40
2:cR:229:MET:HA	2:cR:284:ALA:HB3	2.04	0.40
2:dc:194:SER:O	2:dc:199:ASP:O	2.39	0.40
2:dc:199:ASP:HA	2:eI:59:TRP:CZ2	2.56	0.40
2:dc:238:ASN:O	2:dc:242:VAL:HG23	2.21	0.40
2:dd:40:SER:HB3	2:dd:179:LEU:HD13	2.03	0.40
2:dd:219:VAL:O	2:dd:219:VAL:CG1	2.66	0.40
2:de:43:ALA:HB3	2:dh:13:LYS:HB3	2.03	0.40
2:de:44:SER:O	2:de:177:ARG:NH2	2.54	0.40
2:dg:226:LEU:HD23	2:dg:226:LEU:C	2.47	0.40
2:dg:238:ASN:O	2:dg:242:VAL:HG23	2.22	0.40
2:dh:62:GLN:CD	2:dh:62:GLN:N	2.79	0.40
2:dh:196:THR:O	2:dh:196:THR:HG22	2.21	0.40
2:di:62:GLN:HB3	1:dy:103:ARG:O	2.20	0.40
2:di:249:GLN:HB3	2:di:257:LEU:HD12	2.03	0.40
1:do:102:GLU:CG	1:ki:99:LEU:HD11	2.42	0.40
1:dp:57:VAL:CG1	1:dp:59:VAL:HG13	2.50	0.40
2:dq:98:VAL:O	2:dq:99:TYR:HB3	2.20	0.40
2:dq:141:HIS:N	2:dq:148:ASP:O	2.54	0.40
2:dq:167:GLY:N	2:dq:262:ASN:OD1	2.54	0.40
2:dq:303:LEU:H	2:dq:303:LEU:HD23	1.86	0.40
2:ds:100:GLY:N	2:ds:101:PRO:CD	2.84	0.40
2:ds:243:TYR:CE1	2:ds:294:LEU:HD12	2.57	0.40
2:du:238:ASN:O	2:du:242:VAL:HG23	2.22	0.40
1:dA:86:SER:O	1:dA:90:LEU:N	2.50	0.40
2:dF:86:VAL:O	2:dF:201:GLU:O	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dL:65:ARG:HG2	1:dL:96:ASP:CB	2.51	0.40
1:dO:90:LEU:O	2:nN:4:ILE:HD11	2.21	0.40
2:dS:199:ASP:HA	2:oR:59:TRP:CZ2	2.56	0.40
2:dU:59:TRP:NE1	2:dU:63:ARG:HG3	2.36	0.40
2:dU:243:TYR:CE1	2:dU:294:LEU:HD12	2.57	0.40
2:dU:255:ARG:HG3	2:dX:116:GLU:OE1	2.22	0.40
2:dV:93:ASP:O	2:nN:13:LYS:NZ	2.54	0.40
2:dV:264:LEU:O	2:dV:297:VAL:HG23	2.21	0.40
2:dW:123:LYS:HD3	2:dW:303:LEU:HB2	2.02	0.40
1:ec:62:THR:HG22	1:ec:63:VAL:N	2.36	0.40
2:eg:219:VAL:O	2:eg:219:VAL:HG22	2.21	0.40
2:ek:277:VAL:HG12	2:ek:278:VAL:HG13	2.03	0.40
2:el:9:ILE:O	2:el:9:ILE:HG22	2.21	0.40
2:em:150:THR:C	2:em:221:PHE:CD1	2.99	0.40
2:em:274:ALA:CB	2:em:297:VAL:HG21	2.51	0.40
1:ep:60:ARG:NH2	1:pa:99:LEU:CD1	2.52	0.40
2:eu:303:LEU:H	2:eu:303:LEU:HD23	1.86	0.40
2:ey:9:ILE:O	2:ey:9:ILE:CG2	2.68	0.40
2:eM:4:ILE:HG23	1:fe:90:LEU:HB3	2.02	0.40
2:eM:287:ALA:O	2:eM:288:ASP:CG	2.63	0.40
2:eN:42:THR:HG22	2:eN:43:ALA:N	2.36	0.40
2:eN:187:ARG:NH2	2:gr:196:THR:HG23	2.36	0.40
2:eN:267:PRO:HD2	2:eN:270:LEU:HD12	2.03	0.40
2:eO:150:THR:C	2:eO:221:PHE:CD1	3.00	0.40
2:eW:219:VAL:O	2:eW:219:VAL:HG22	2.21	0.40
2:eY:255:ARG:HG3	2:fb:116:GLU:OE1	2.21	0.40
2:eZ:83:THR:HG23	2:eZ:205:MET:CG	2.51	0.40
2:fa:238:ASN:O	2:fa:242:VAL:HG23	2.22	0.40
2:fb:267:PRO:HD2	2:fb:270:LEU:HD12	2.04	0.40
2:fk:59:TRP:CZ2	2:nz:199:ASP:HA	2.56	0.40
2:fl:86:VAL:O	2:fl:201:GLU:O	2.40	0.40
2:fm:100:GLY:N	2:fm:101:PRO:CD	2.84	0.40
2:fp:42:THR:O	2:fp:179:LEU:HD11	2.21	0.40
2:fq:287:ALA:O	2:fq:288:ASP:CG	2.64	0.40
2:fy:4:ILE:HG22	2:nr:69:ALA:HA	2.03	0.40
2:fy:141:HIS:N	2:fy:148:ASP:O	2.54	0.40
2:fz:98:VAL:HG21	2:mn:9:ILE:HD11	2.02	0.40
2:fB:99:TYR:CE1	2:mh:3:ILE:HD11	2.56	0.40
2:fC:238:ASN:O	2:fC:242:VAL:HG23	2.22	0.40
2:fD:187:ARG:NH2	2:no:196:THR:HG23	2.36	0.40
1:fH:59:VAL:HG13	1:fH:77:GLY:HA2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fM:141:HIS:N	2:fM:148:ASP:O	2.54	0.40
2:fN:40:SER:HB3	2:fN:179:LEU:HD13	2.03	0.40
2:fN:86:VAL:O	2:fN:201:GLU:O	2.40	0.40
2:fN:268:THR:HG23	2:gb:247:ARG:HD2	2.03	0.40
2:fP:99:TYR:CE1	2:ga:3:ILE:HD11	2.56	0.40
2:fQ:277:VAL:HG12	2:fQ:278:VAL:HG13	2.03	0.40
2:fS:221:PHE:HE2	2:fS:241:LYS:HE3	1.86	0.40
2:fS:243:TYR:CD1	2:fS:294:LEU:HD21	2.56	0.40
1:fV:91:GLU:HB2	2:nB:4:ILE:HG21	2.03	0.40
2:ga:197:LYS:O	2:ga:198:GLU:CG	2.69	0.40
2:gb:86:VAL:O	2:gb:201:GLU:O	2.39	0.40
2:gb:224:TRP:CZ3	2:gb:226:LEU:HD13	2.56	0.40
2:gc:68:MET:HE2	2:gc:68:MET:HB3	2.02	0.40
2:gd:171:TYR:CE1	2:gd:175:THR:HG21	2.56	0.40
2:gd:187:ARG:HB2	2:gd:203:VAL:HG12	2.03	0.40
2:gg:228:ALA:HB3	2:gg:273:LYS:HE3	2.02	0.40
2:go:3:ILE:HD11	2:hV:99:TYR:CE1	2.56	0.40
2:go:4:ILE:HD11	1:hO:90:LEU:O	2.21	0.40
2:gp:86:VAL:O	2:gp:201:GLU:O	2.40	0.40
2:gq:224:TRP:CE2	2:gq:242:VAL:HG21	2.56	0.40
2:gr:276:GLU:OE2	2:gr:280:VAL:HG21	2.21	0.40
2:gs:143:VAL:HG13	2:gs:144:TYR:N	2.36	0.40
2:gs:228:ALA:O	2:gs:284:ALA:HB2	2.20	0.40
2:gs:287:ALA:O	2:gs:288:ASP:CG	2.64	0.40
2:gu:226:LEU:HA	2:gu:238:ASN:ND2	2.35	0.40
2:gu:245:ALA:O	2:gu:249:GLN:HG2	2.20	0.40
2:gE:44:SER:O	2:gE:177:ARG:NH2	2.54	0.40
2:gI:274:ALA:CB	2:gI:297:VAL:HG21	2.52	0.40
1:gJ:65:ARG:HG2	1:gJ:96:ASP:CB	2.51	0.40
1:gM:62:THR:HG22	1:gM:63:VAL:N	2.36	0.40
1:gO:86:SER:O	1:gO:90:LEU:N	2.51	0.40
2:gQ:4:ILE:HG22	2:im:69:ALA:HA	2.04	0.40
2:gQ:199:ASP:HA	2:ig:59:TRP:CZ2	2.56	0.40
2:gR:171:TYR:CZ	2:ih:20:PHE:N	2.89	0.40
2:gT:79:LEU:HD11	2:gW:59:TRP:HA	2.02	0.40
2:gT:93:ASP:O	2:IT:13:LYS:NZ	2.54	0.40
2:gW:226:LEU:HA	2:gW:238:ASN:ND2	2.35	0.40
2:gW:274:ALA:CB	2:gW:297:VAL:HG21	2.52	0.40
2:he:98:VAL:O	2:he:99:TYR:HB3	2.21	0.40
2:hf:20:PHE:N	2:kC:171:TYR:CZ	2.89	0.40
2:hg:44:SER:O	2:hg:177:ARG:NH2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hg:79:LEU:HG	2:hi:59:TRP:CD1	2.56	0.40
2:hg:255:ARG:HG3	2:hj:116:GLU:OE1	2.22	0.40
2:hh:196:THR:HG23	2:kG:187:ARG:NH2	2.36	0.40
2:hi:173:LEU:HD21	2:hi:219:VAL:HG13	2.04	0.40
2:hj:42:THR:O	2:hj:179:LEU:HD11	2.21	0.40
2:hj:89:THR:N	2:hj:200:ASP:OD2	2.36	0.40
2:hk:69:ALA:HA	2:kB:4:ILE:HG22	2.04	0.40
2:hk:221:PHE:HE2	2:hk:241:LYS:HE3	1.86	0.40
2:hk:228:ALA:HB3	2:hk:273:LYS:HE3	2.02	0.40
1:hl:65:ARG:HG2	1:hl:96:ASP:CB	2.51	0.40
2:hs:59:TRP:CZ2	2:hF:199:ASP:HA	2.56	0.40
2:hs:167:GLY:N	2:hs:262:ASN:OD1	2.54	0.40
2:ht:243:TYR:CE1	2:ht:294:LEU:HD12	2.57	0.40
2:hu:187:ARG:HB2	2:hu:203:VAL:HG12	2.03	0.40
2:hu:221:PHE:CG	2:hu:242:VAL:HG13	2.56	0.40
2:hu:264:LEU:O	2:hu:297:VAL:HG23	2.21	0.40
2:hw:179:LEU:HD22	2:hw:209:TYR:HD2	1.86	0.40
2:hF:167:GLY:N	2:hF:262:ASN:OD1	2.54	0.40
2:hH:83:THR:HG23	2:hH:205:MET:CG	2.51	0.40
2:hJ:179:LEU:HD22	2:hJ:209:TYR:HD2	1.86	0.40
2:hJ:196:THR:O	2:hJ:196:THR:HG22	2.21	0.40
1:hM:65:ARG:HE	1:hM:96:ASP:HB2	1.86	0.40
1:hR:96:ASP:HB3	1:hR:97:PRO:CD	2.51	0.40
2:hV:276:GLU:OE2	2:hV:280:VAL:HG21	2.21	0.40
2:hW:173:LEU:HD21	2:hW:219:VAL:HG13	2.04	0.40
2:hW:238:ASN:O	2:hW:242:VAL:HG23	2.21	0.40
2:hX:42:THR:O	2:hX:179:LEU:HD11	2.21	0.40
2:hY:274:ALA:CB	2:hY:297:VAL:HG21	2.52	0.40
1:ic:60:ARG:HB2	1:ic:102:GLU:N	2.37	0.40
2:ii:43:ALA:HB3	2:il:13:LYS:HB3	2.03	0.40
2:ij:171:TYR:CE1	2:ij:175:THR:HG21	2.56	0.40
2:iu:4:ILE:HD11	1:jI:90:LEU:O	2.21	0.40
2:iv:82:SER:HB2	2:iv:206:ALA:H	1.85	0.40
2:iw:255:ARG:HG3	2:iz:116:GLU:OE1	2.22	0.40
2:iy:123:LYS:HD3	2:iy:303:LEU:HB2	2.02	0.40
2:iz:143:VAL:HG12	2:iz:144:TYR:N	2.36	0.40
1:iH:96:ASP:HB3	1:iH:97:PRO:CD	2.51	0.40
2:iI:18:LYS:HA	2:iI:18:LYS:HD3	1.95	0.40
2:iI:141:HIS:N	2:iI:148:ASP:O	2.54	0.40
2:iN:143:VAL:HG12	2:iN:144:TYR:N	2.36	0.40
2:iN:179:LEU:HD22	2:iN:209:TYR:HD2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:iO:287:ALA:O	2:iO:288:ASP:CG	2.64	0.40
1:iQ:102:GLU:OE1	1:kk:98:LEU:O	2.39	0.40
2:iW:303:LEU:H	2:iW:303:LEU:HD23	1.86	0.40
2:iY:100:GLY:N	2:iY:101:PRO:CD	2.84	0.40
2:iZ:221:PHE:CG	2:iZ:242:VAL:HG13	2.56	0.40
2:iZ:229:MET:HA	2:iZ:284:ALA:HB3	2.04	0.40
2:ja:238:ASN:O	2:ja:242:VAL:HG23	2.22	0.40
2:jb:143:VAL:HG12	2:jb:144:TYR:N	2.36	0.40
2:jc:150:THR:C	2:jc:221:PHE:CD1	2.99	0.40
2:jk:98:VAL:O	2:jk:99:TYR:HB3	2.21	0.40
2:jm:13:LYS:HB3	2:jo:43:ALA:HB3	2.02	0.40
2:jn:230:SER:O	2:jn:231:THR:HG22	2.20	0.40
2:jn:264:LEU:O	2:jn:297:VAL:HG23	2.21	0.40
2:jn:276:GLU:OE2	2:jn:280:VAL:HG21	2.21	0.40
1:jr:65:ARG:HG2	1:jr:96:ASP:CB	2.51	0.40
2:jB:221:PHE:CG	2:jB:242:VAL:HG13	2.56	0.40
2:jE:227:ALA:HB1	2:jE:229:MET:SD	2.61	0.40
2:jM:219:VAL:O	2:jM:219:VAL:HG22	2.21	0.40
2:jP:171:TYR:CE1	2:jP:175:THR:HG21	2.56	0.40
2:jR:236:GLN:HA	2:jR:240:GLU:HB3	2.03	0.40
2:jS:226:LEU:HA	2:jS:238:ASN:ND2	2.35	0.40
2:ka:4:ILE:HD11	1:ln:90:LEU:O	2.21	0.40
2:kc:43:ALA:HB3	2:kf:13:LYS:HB3	2.03	0.40
2:kc:100:GLY:N	2:kc:101:PRO:CD	2.84	0.40
2:kd:171:TYR:CE1	2:kd:175:THR:HG21	2.56	0.40
2:ke:62:GLN:NE2	2:qa:197:LYS:NZ	2.68	0.40
2:ke:143:VAL:HG13	2:ke:144:TYR:N	2.36	0.40
2:ke:238:ASN:O	2:ke:242:VAL:HG23	2.22	0.40
2:ko:224:TRP:CE3	2:ko:226:LEU:HD12	2.55	0.40
2:kp:79:LEU:HG	2:kr:59:TRP:CD1	2.56	0.40
2:kr:107:GLY:CA	2:kr:184:TYR:CZ	2.97	0.40
2:kr:161:ALA:N	2:kr:162:PRO:CD	2.84	0.40
2:kt:274:ALA:CB	2:kt:297:VAL:HG21	2.52	0.40
1:kx:60:ARG:HB2	1:kx:102:GLU:N	2.37	0.40
2:kB:187:ARG:HD3	2:kB:194:SER:OG	2.21	0.40
2:kC:86:VAL:O	2:kC:201:GLU:O	2.40	0.40
2:kC:191:SER:CB	2:kH:191:SER:HB3	2.50	0.40
2:kE:99:TYR:CE1	2:kP:3:ILE:HD11	2.56	0.40
2:kG:62:GLN:N	2:kG:62:GLN:CD	2.79	0.40
2:kP:141:HIS:N	2:kP:148:ASP:O	2.54	0.40
2:kP:225:GLN:O	2:kP:226:LEU:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kQ:8:LEU:HD12	2:kQ:8:LEU:N	2.35	0.40
2:kU:9:ILE:HG22	2:kU:9:ILE:O	2.22	0.40
2:kV:221:PHE:HD2	2:kV:224:TRP:HE1	1.69	0.40
2:kV:226:LEU:HA	2:kV:238:ASN:ND2	2.35	0.40
1:kZ:60:ARG:HB2	1:kZ:102:GLU:N	2.37	0.40
2:lf:255:ARG:HG3	2:li:116:GLU:OE1	2.21	0.40
2:lg:3:ILE:HD13	2:lg:9:ILE:HD13	2.03	0.40
2:li:197:LYS:NZ	2:np:62:GLN:NE2	2.68	0.40
2:lr:187:ARG:HD3	2:lr:194:SER:OG	2.21	0.40
2:lt:44:SER:O	2:lt:177:ARG:NH2	2.54	0.40
2:lv:238:ASN:O	2:lv:242:VAL:HG23	2.22	0.40
2:lw:267:PRO:HD2	2:lw:270:LEU:HD12	2.04	0.40
2:lx:274:ALA:CB	2:lx:297:VAL:HG21	2.52	0.40
1:IE:96:ASP:HB3	1:IE:97:PRO:CD	2.51	0.40
2:IG:171:TYR:CZ	2:mY:20:PHE:N	2.89	0.40
2:II:276:GLU:OE2	2:II:280:VAL:HG21	2.21	0.40
2:IJ:277:VAL:HG12	2:IJ:278:VAL:HG13	2.03	0.40
2:IK:9:ILE:O	2:IK:9:ILE:HG22	2.22	0.40
2:IK:62:GLN:CD	2:IK:62:GLN:N	2.79	0.40
2:IK:294:LEU:CD2	2:IK:295:VAL:HG23	2.40	0.40
2:IL:273:LYS:HA	2:IL:273:LYS:HD2	1.93	0.40
2:IL:274:ALA:CB	2:IL:297:VAL:HG21	2.52	0.40
1:IS:62:THR:HG21	1:IS:97:PRO:HB3	2.03	0.40
2:IT:187:ARG:HD3	2:IT:194:SER:OG	2.21	0.40
2:IV:44:SER:O	2:IV:177:ARG:NH2	2.54	0.40
2:IX:143:VAL:HG13	2:IX:144:TYR:N	2.36	0.40
1:mb:98:LEU:O	2:ml:62:GLN:NE2	2.54	0.40
1:mg:60:ARG:HD2	1:mg:102:GLU:OE1	2.20	0.40
2:mi:235:ASN:HD22	2:mi:283:LEU:HD13	1.87	0.40
2:mk:99:TYR:CE1	2:mv:3:ILE:HD11	2.56	0.40
2:mk:221:PHE:CG	2:mk:242:VAL:HG13	2.56	0.40
2:ml:9:ILE:O	2:ml:9:ILE:CG2	2.68	0.40
2:ml:287:ALA:O	2:ml:288:ASP:CG	2.64	0.40
2:mm:143:VAL:HG12	2:mm:144:TYR:N	2.36	0.40
2:mn:228:ALA:HB3	2:mn:273:LYS:HE3	2.02	0.40
1:mo:65:ARG:HG2	1:mo:96:ASP:HB2	2.02	0.40
2:mv:141:HIS:N	2:mv:148:ASP:O	2.54	0.40
2:mv:219:VAL:O	2:mv:219:VAL:HG22	2.21	0.40
2:mx:43:ALA:HB3	2:mA:13:LYS:HB3	2.03	0.40
2:mx:44:SER:O	2:mx:177:ARG:NH2	2.54	0.40
2:my:3:ILE:HD13	2:my:9:ILE:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mz:123:LYS:HD3	2:mz:303:LEU:HB2	2.02	0.40
2:mB:69:ALA:HA	2:oD:4:ILE:HG22	2.04	0.40
2:mK:82:SER:HB2	2:mK:206:ALA:H	1.85	0.40
2:mM:171:TYR:CE1	2:mM:175:THR:HG21	2.56	0.40
2:mP:226:LEU:HD21	2:mP:273:LYS:HB3	2.03	0.40
2:mY:86:VAL:O	2:mY:201:GLU:O	2.40	0.40
2:mZ:44:SER:O	2:mZ:177:ARG:NH2	2.54	0.40
2:nb:123:LYS:HD3	2:nb:303:LEU:HB2	2.02	0.40
2:nl:187:ARG:HD3	2:nl:194:SER:OG	2.21	0.40
2:no:221:PHE:CG	2:no:242:VAL:HG13	2.56	0.40
2:nr:227:ALA:HB1	2:nr:229:MET:SD	2.61	0.40
2:nr:274:ALA:CB	2:nr:297:VAL:HG21	2.51	0.40
1:nu:96:ASP:HB2	2:nC:64:VAL:HA	2.04	0.40
2:nA:86:VAL:O	2:nA:201:GLU:O	2.40	0.40
2:nD:287:ALA:O	2:nD:288:ASP:CG	2.64	0.40
1:nL:63:VAL:HG13	1:nL:74:ASP:HB2	2.03	0.40
2:nN:219:VAL:O	2:nN:219:VAL:HG22	2.21	0.40
2:nP:79:LEU:HG	2:nR:59:TRP:CD1	2.56	0.40
2:nP:243:TYR:CE1	2:nP:294:LEU:HD12	2.57	0.40
2:nQ:79:LEU:HD11	2:nT:59:TRP:HA	2.02	0.40
2:nR:182:LEU:HG	2:nR:182:LEU:O	2.21	0.40
2:nR:238:ASN:O	2:nR:242:VAL:HG23	2.22	0.40
2:nS:143:VAL:HG12	2:nS:144:TYR:N	2.36	0.40
2:nS:236:GLN:HA	2:nS:240:GLU:HB3	2.03	0.40
2:nT:274:ALA:CB	2:nT:297:VAL:HG21	2.52	0.40
1:nX:60:ARG:HB2	1:nX:102:GLU:N	2.37	0.40
2:ob:187:ARG:HD3	2:ob:194:SER:OG	2.21	0.40
2:od:44:SER:O	2:od:177:ARG:NH2	2.54	0.40
2:oe:264:LEU:O	2:oe:297:VAL:HG23	2.21	0.40
2:of:163:ALA:O	2:of:264:LEU:HD12	2.21	0.40
1:oi:65:ARG:HG2	1:oi:96:ASP:CB	2.51	0.40
2:op:4:ILE:HG22	2:qb:69:ALA:HA	2.04	0.40
2:op:141:HIS:N	2:op:148:ASP:O	2.54	0.40
2:oq:40:SER:HB3	2:oq:179:LEU:HD13	2.03	0.40
2:or:44:SER:O	2:or:177:ARG:NH2	2.54	0.40
2:ou:196:THR:HG22	2:ou:196:THR:O	2.21	0.40
2:oG:230:SER:O	2:oG:231:THR:HG22	2.20	0.40
2:oV:226:LEU:HD23	2:oV:226:LEU:C	2.46	0.40
2:oW:196:THR:O	2:oW:196:THR:HG22	2.21	0.40
2:oX:243:TYR:CD1	2:oX:294:LEU:HD21	2.56	0.40
2:oX:264:LEU:HB2	2:oX:295:VAL:HG11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:pe:96:ASP:HB3	1:pe:97:PRO:CD	2.51	0.40
2:pf:219:VAL:O	2:pf:219:VAL:HG22	2.21	0.40
2:pf:303:LEU:H	2:pf:303:LEU:HD23	1.85	0.40
2:pi:264:LEU:O	2:pi:297:VAL:HG23	2.21	0.40
2:pi:276:GLU:OE2	2:pi:280:VAL:HG21	2.21	0.40
1:pp:103:ARG:NH1	2:pJ:61:GLY:CA	2.70	0.40
2:px:238:ASN:O	2:px:242:VAL:HG23	2.22	0.40
2:py:9:ILE:HG22	2:py:9:ILE:O	2.22	0.40
2:py:233:GLU:OE1	2:py:234:LEU:HD22	2.20	0.40
2:pz:239:PHE:CZ	2:pz:294:LEU:HD22	2.56	0.40
2:pH:225:GLN:O	2:pH:226:LEU:C	2.64	0.40
2:pJ:43:ALA:HB3	2:pM:13:LYS:HB3	2.03	0.40
2:pJ:255:ARG:HG3	2:pM:116:GLU:OE1	2.22	0.40
2:pL:173:LEU:HD21	2:pL:219:VAL:HG13	2.04	0.40
2:pN:64:VAL:O	2:pN:64:VAL:HG23	2.20	0.40
2:pN:150:THR:C	2:pN:221:PHE:CD1	2.99	0.40
2:pV:225:GLN:O	2:pV:226:LEU:C	2.64	0.40
2:pX:59:TRP:NE1	2:pX:63:ARG:HG3	2.35	0.40
2:pX:235:ASN:HD21	2:pX:290:PRO:HD2	1.86	0.40
2:pY:30:THR:O	2:pY:30:THR:HG22	2.22	0.40
2:qb:287:ALA:O	2:qb:288:ASP:CG	2.64	0.40
3:qd:95:ARG:HA	3:qd:98:ALA:HB3	2.01	0.40
3:qe:55:GLU:OE1	4:qm:223:ASN:CB	2.69	0.40
3:qf:68:ALA:HA	4:ql:8:TYR:HE2	1.70	0.40
3:qh:25:LEU:HD11	6:qK:82:VAL:H	1.86	0.40
4:qk:87:LYS:HE3	4:ql:245:ASP:HA	1.50	0.40
4:qn:80:LEU:HA	4:qn:83:THR:HG22	2.02	0.40
5:qp:139:LEU:N	5:qp:139:LEU:HD12	2.36	0.40
5:qp:234:ILE:HA	5:qr:262:ALA:O	2.21	0.40
5:qp:268:GLU:OE2	5:qL:241:PRO:N	2.51	0.40
5:qp:348:TRP:HB3	5:qp:349:PRO:HD3	2.03	0.40
5:qr:248:LYS:HD3	6:qu:123:ASN:HA	1.53	0.40
6:qs:17:LYS:HD2	6:qu:81:ILE:HG21	2.03	0.40
5:qv:35:HIS:HA	5:qv:66:ASP:OD2	2.21	0.40
5:qv:348:TRP:HB3	5:qv:349:PRO:HD3	2.04	0.40
6:qy:17:LYS:HD2	6:qA:81:ILE:HG21	2.03	0.40
5:qz:139:LEU:N	5:qz:139:LEU:HD12	2.36	0.40
5:qz:218:TYR:OH	6:qE:133:ASP:OD2	2.28	0.40
5:qz:234:ILE:HA	5:qB:262:ALA:O	2.21	0.40
5:qD:384:ILE:N	5:qD:385:PRO:HD2	2.37	0.40
6:qE:121:VAL:HG13	6:qE:123:ASN:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:qF:241:PRO:N	5:qH:268:GLU:OE2	2.51	0.40
5:qF:384:ILE:N	5:qF:385:PRO:HD2	2.37	0.40
5:qH:139:LEU:HD12	5:qH:139:LEU:N	2.36	0.40
5:qH:234:ILE:HA	5:qJ:262:ALA:O	2.21	0.40
1:ab:91:GLU:HB2	2:mL:4:ILE:HG21	2.03	0.40
1:ab:99:LEU:CA	1:ng:102:GLU:CD	2.87	0.40
1:af:99:LEU:HG	1:oi:102:GLU:OE2	1.74	0.40
2:ag:13:LYS:NZ	2:oe:93:ASP:O	2.54	0.40
2:ag:199:ASP:HA	2:ob:59:TRP:CZ2	2.56	0.40
2:ai:61:GLY:CA	1:nX:103:ARG:NE	2.83	0.40
2:ai:255:ARG:HG3	2:al:116:GLU:OE1	2.22	0.40
2:aj:99:TYR:CE1	2:oR:3:ILE:HD11	2.56	0.40
2:ak:173:LEU:HD21	2:ak:219:VAL:HG13	2.04	0.40
2:ak:238:ASN:O	2:ak:242:VAL:HG23	2.22	0.40
2:al:187:ARG:NH2	2:oe:196:THR:HG23	2.36	0.40
2:am:227:ALA:HB1	2:am:229:MET:SD	2.61	0.40
1:an:65:ARG:HG2	1:an:96:ASP:CB	2.51	0.40
1:ao:60:ARG:O	1:ao:61:ALA:HB3	2.21	0.40
2:ay:236:GLN:HA	2:ay:240:GLU:HB3	2.03	0.40
2:aH:141:HIS:N	2:aH:148:ASP:O	2.54	0.40
2:aI:224:TRP:CZ3	2:aI:226:LEU:HD13	2.56	0.40
2:aM:9:ILE:O	2:aM:9:ILE:HG22	2.22	0.40
2:aN:227:ALA:HB1	2:aN:229:MET:SD	2.61	0.40
2:aN:232:GLU:HB3	2:aN:236:GLN:HG2	2.03	0.40
1:aR:90:LEU:O	2:bj:4:ILE:HD11	2.21	0.40
1:aR:103:ARG:NE	2:bl:61:GLY:HA2	2.35	0.40
2:aV:84:VAL:HG11	2:ba:68:MET:HE3	2.04	0.40
2:aY:3:ILE:HD13	2:aY:9:ILE:HD13	2.03	0.40
2:aY:79:LEU:HD13	2:bb:60:ILE:H	1.87	0.40
2:aY:229:MET:HA	2:aY:284:ALA:HB3	2.04	0.40
2:aZ:20:PHE:N	2:aZ:20:PHE:CD1	2.87	0.40
2:ba:9:ILE:HG22	2:ba:9:ILE:O	2.21	0.40
2:ba:179:LEU:HD22	2:ba:209:TYR:HD2	1.86	0.40
2:bb:249:GLN:HB3	2:bb:257:LEU:HD12	2.03	0.40
1:bf:103:ARG:NE	2:ds:61:GLY:HA2	2.35	0.40
2:bj:100:GLY:O	2:bj:103:MET:HG2	2.22	0.40
2:bm:264:LEU:O	2:bm:297:VAL:HG23	2.21	0.40
2:bn:9:ILE:O	2:bn:9:ILE:CG2	2.68	0.40
2:bp:122:LEU:C	2:bp:122:LEU:HD23	2.45	0.40
2:bp:150:THR:C	2:bp:221:PHE:CD1	2.99	0.40
1:bs:99:LEU:HD23	1:eR:102:GLU:HB3	1.96	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bx:3:ILE:HD11	2:df:99:TYR:CE1	2.56	0.40
2:bz:100:GLY:N	2:bz:101:PRO:CD	2.84	0.40
2:bB:238:ASN:O	2:bB:242:VAL:HG23	2.22	0.40
1:bE:65:ARG:HG2	1:bE:96:ASP:CB	2.51	0.40
1:bH:60:ARG:HB2	1:bH:102:GLU:N	2.37	0.40
1:bH:62:THR:HG22	1:bH:63:VAL:N	2.36	0.40
2:bL:199:ASP:HA	2:hF:59:TRP:CZ2	2.56	0.40
2:bM:63:ARG:NH2	2:bP:207:ASP:OD1	2.53	0.40
2:bM:255:ARG:HG3	2:bP:116:GLU:OE1	2.22	0.40
2:bN:79:LEU:HD11	2:bQ:59:TRP:HA	2.02	0.40
2:bN:187:ARG:HB2	2:bN:203:VAL:HG12	2.03	0.40
2:bO:173:LEU:HD21	2:bO:219:VAL:HG13	2.04	0.40
2:bO:226:LEU:HD23	2:bO:226:LEU:C	2.46	0.40
2:bO:238:ASN:O	2:bO:242:VAL:HG23	2.22	0.40
1:bT:59:VAL:HG13	1:bT:77:GLY:HA2	2.04	0.40
1:bX:96:ASP:HB3	1:bX:97:PRO:CD	2.51	0.40
2:bY:59:TRP:CZ2	2:iI:199:ASP:HA	2.56	0.40
2:ca:72:GLY:H	2:hX:8:LEU:HD11	1.86	0.40
2:ca:243:TYR:CE1	2:ca:294:LEU:HD12	2.57	0.40
2:cb:93:ASP:O	2:iI:13:LYS:NZ	2.54	0.40
2:cb:99:TYR:CE1	2:iI:3:ILE:HD11	2.56	0.40
2:cc:12:LEU:HD21	2:eY:16:PHE:CD1	2.57	0.40
2:cc:226:LEU:HD23	2:cc:226:LEU:C	2.47	0.40
2:ce:239:PHE:CZ	2:ce:294:LEU:HD22	2.56	0.40
1:cg:90:LEU:HB3	2:jo:4:ILE:HG23	2.02	0.40
2:cm:167:GLY:N	2:cm:262:ASN:OD1	2.54	0.40
2:cn:171:TYR:CZ	2:iv:20:PHE:N	2.89	0.40
2:co:43:ALA:HB3	2:cr:13:LYS:HB3	2.03	0.40
2:cq:182:LEU:HG	2:cq:182:LEU:O	2.21	0.40
1:cu:102:GLU:OE1	1:dO:98:LEU:O	2.39	0.40
2:cA:3:ILE:HD11	2:pi:99:TYR:CE1	2.56	0.40
2:cB:98:VAL:HG21	2:cU:9:ILE:HD11	2.02	0.40
2:cC:59:TRP:NE1	2:cC:63:ARG:HG3	2.35	0.40
2:cD:99:TYR:CE1	2:cO:3:ILE:HD11	2.56	0.40
2:cD:229:MET:HA	2:cD:284:ALA:HB3	2.04	0.40
2:cE:238:ASN:O	2:cE:242:VAL:HG23	2.22	0.40
2:cG:196:THR:HG23	2:cP:63:ARG:NH1	2.37	0.40
1:cH:100:LYS:HD3	1:cN:100:LYS:HZ1	1.84	0.40
1:cN:62:THR:HG21	1:cN:97:PRO:HB3	2.03	0.40
2:cO:225:GLN:O	2:cO:226:LEU:C	2.64	0.40
2:cR:171:TYR:CE1	2:cR:175:THR:HG21	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cT:9:ILE:HG22	2:cT:9:ILE:O	2.22	0.40
2:dd:42:THR:HG22	2:dd:43:ALA:H	1.85	0.40
2:dd:106:MET:SD	2:dd:106:MET:C	3.05	0.40
2:df:171:TYR:CE1	2:df:175:THR:HG21	2.56	0.40
2:dg:123:LYS:HD3	2:dg:303:LEU:HB2	2.02	0.40
2:di:150:THR:C	2:di:221:PHE:CD1	2.99	0.40
2:di:228:ALA:HB3	2:di:273:LYS:HE3	2.02	0.40
2:dr:86:VAL:O	2:dr:201:GLU:O	2.40	0.40
2:dt:234:LEU:HG	2:dt:239:PHE:HB2	2.02	0.40
1:dy:65:ARG:HE	1:dy:96:ASP:HB2	1.86	0.40
2:dE:167:GLY:N	2:dE:262:ASN:OD1	2.54	0.40
2:dF:224:TRP:CZ3	2:dF:226:LEU:HD13	2.56	0.40
2:dG:43:ALA:HB3	2:dJ:13:LYS:HB3	2.03	0.40
2:dI:163:ALA:O	2:dI:264:LEU:HD12	2.21	0.40
2:dK:232:GLU:HB3	2:dK:236:GLN:HG2	2.03	0.40
2:dS:187:ARG:HD3	2:dS:194:SER:OG	2.21	0.40
2:dU:61:GLY:HA2	1:oN:103:ARG:NE	2.35	0.40
2:dU:91:ILE:HG22	2:dU:99:TYR:CG	2.57	0.40
2:dV:228:ALA:HB1	2:dV:283:LEU:HD11	2.04	0.40
2:dX:233:GLU:OE1	2:dX:234:LEU:HD22	2.20	0.40
2:dY:228:ALA:HB3	2:dY:273:LYS:HE3	2.02	0.40
2:dY:274:ALA:CB	2:dY:297:VAL:HG21	2.51	0.40
1:ea:102:GLU:OE1	1:fu:98:LEU:O	2.39	0.40
2:eh:224:TRP:CZ3	2:eh:226:LEU:HD13	2.56	0.40
2:ei:235:ASN:HD21	2:ei:290:PRO:HD2	1.86	0.40
2:ek:143:VAL:HG13	2:ek:144:TYR:N	2.36	0.40
2:eu:59:TRP:CZ2	2:gC:199:ASP:HA	2.56	0.40
2:ev:42:THR:HG22	2:ev:43:ALA:H	1.85	0.40
2:ey:62:GLN:NE2	2:og:197:LYS:NZ	2.68	0.40
2:ey:238:ASN:O	2:ey:242:VAL:HG23	2.22	0.40
2:eA:243:TYR:CD1	2:eA:294:LEU:HD21	2.56	0.40
2:eA:249:GLN:HB3	2:eA:257:LEU:HD12	2.02	0.40
1:eC:65:ARG:HE	1:eC:96:ASP:HB2	1.86	0.40
1:eG:102:GLU:CD	1:gK:99:LEU:CG	2.93	0.40
2:eI:4:ILE:HD11	1:gk:90:LEU:O	2.21	0.40
2:eL:229:MET:HA	2:eL:284:ALA:HB3	2.03	0.40
2:eL:264:LEU:O	2:eL:297:VAL:HG23	2.21	0.40
2:eO:226:LEU:HD21	2:eO:273:LYS:HB3	2.03	0.40
2:eO:243:TYR:CD1	2:eO:294:LEU:HD21	2.56	0.40
1:eP:65:ARG:HG2	1:eP:96:ASP:CB	2.51	0.40
1:eR:58:PHE:HB3	1:eR:101:VAL:HG21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:fb:196:THR:HG22	2:fb:196:THR:O	2.21	0.40
1:fg:90:LEU:O	2:nz:4:ILE:HD11	2.21	0.40
2:fl:98:VAL:HG21	2:nF:9:ILE:HD11	2.02	0.40
2:fl:106:MET:C	2:fl:106:MET:SD	3.05	0.40
2:fl:235:ASN:HD22	2:fl:283:LEU:HD13	1.87	0.40
2:fm:44:SER:O	2:fm:177:ARG:NH2	2.54	0.40
2:fm:53:PHE:O	2:fm:255:ARG:NH2	2.43	0.40
2:fq:274:ALA:CB	2:fq:297:VAL:HG21	2.52	0.40
1:ft:59:VAL:HG13	1:ft:77:GLY:HA2	2.04	0.40
1:fu:60:ARG:HB2	1:fu:102:GLU:N	2.37	0.40
2:fy:187:ARG:HD3	2:fy:194:SER:OG	2.21	0.40
2:fy:238:ASN:O	2:fy:242:VAL:HG23	2.21	0.40
2:fz:20:PHE:N	2:mi:171:TYR:CZ	2.89	0.40
2:fA:4:ILE:HG21	1:nW:91:GLU:HB2	2.03	0.40
2:fB:196:THR:HG23	2:mm:187:ARG:NH2	2.36	0.40
2:fB:276:GLU:OE2	2:fB:280:VAL:HG21	2.21	0.40
2:fD:236:GLN:HA	2:fD:240:GLU:HB3	2.03	0.40
2:fE:221:PHE:HE2	2:fE:241:LYS:HE3	1.86	0.40
1:fH:91:GLU:HB2	2:mx:4:ILE:HG21	2.03	0.40
2:fM:13:LYS:NZ	2:lW:90:ASP:O	2.52	0.40
2:fR:143:VAL:HG12	2:fR:144:TYR:N	2.36	0.40
2:fS:227:ALA:HB1	2:fS:229:MET:SD	2.61	0.40
1:fT:65:ARG:HG2	1:fT:96:ASP:HB2	2.02	0.40
2:ga:229:MET:HB3	2:ga:234:LEU:HD22	2.01	0.40
2:gb:141:HIS:CE1	2:gb:150:THR:HG1	2.37	0.40
2:gb:235:ASN:HD22	2:gb:283:LEU:HD13	1.87	0.40
2:gc:243:TYR:CE1	2:gc:294:LEU:HD12	2.57	0.40
2:gg:243:TYR:CD1	2:gg:294:LEU:HD21	2.56	0.40
2:gr:264:LEU:O	2:gr:297:VAL:HG23	2.21	0.40
2:gs:9:ILE:O	2:gs:9:ILE:CG2	2.68	0.40
2:gt:179:LEU:HD22	2:gt:209:TYR:HD2	1.85	0.40
2:gt:236:GLN:HA	2:gt:240:GLU:HB3	2.03	0.40
2:gt:282:ARG:NH2	2:gt:286:GLY:O	2.47	0.40
1:gw:82:ASP:OD1	1:gw:83:GLY:N	2.51	0.40
2:gF:234:LEU:HG	2:gF:239:PHE:HB2	2.02	0.40
2:gG:123:LYS:HD3	2:gG:303:LEU:HB2	2.02	0.40
2:gG:173:LEU:HD21	2:gG:219:VAL:HG13	2.04	0.40
2:gG:182:LEU:O	2:gG:182:LEU:HG	2.21	0.40
2:gH:62:GLN:N	2:gH:62:GLN:CD	2.79	0.40
2:gH:179:LEU:HD22	2:gH:209:TYR:HD2	1.86	0.40
2:gH:197:LYS:NZ	2:pj:62:GLN:NE2	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gI:227:ALA:HB1	2:gI:229:MET:SD	2.61	0.40
1:gL:59:VAL:HG13	1:gL:77:GLY:HA2	2.04	0.40
2:gT:276:GLU:OE2	2:gT:280:VAL:HG21	2.21	0.40
2:gU:143:VAL:HG13	2:gU:144:TYR:N	2.36	0.40
2:gV:42:THR:O	2:gV:179:LEU:HD11	2.21	0.40
2:gV:179:LEU:HD22	2:gV:209:TYR:HD2	1.86	0.40
2:gV:196:THR:O	2:gV:196:THR:HG22	2.21	0.40
2:gW:150:THR:C	2:gW:221:PHE:CD1	2.99	0.40
1:gZ:59:VAL:HG13	1:gZ:77:GLY:HA2	2.04	0.40
2:he:238:ASN:O	2:he:242:VAL:HG23	2.21	0.40
2:hg:100:GLY:N	2:hg:101:PRO:CD	2.84	0.40
2:hh:197:LYS:HZ2	1:kz:100:LYS:HB3	1.85	0.40
2:hj:9:ILE:O	2:hj:9:ILE:HG22	2.22	0.40
2:hk:9:ILE:HD11	2:lG:98:VAL:HG21	2.02	0.40
2:hk:226:LEU:HD21	2:hk:273:LYS:HB3	2.03	0.40
2:hk:264:LEU:HB2	2:hk:295:VAL:HG11	2.02	0.40
2:hk:287:ALA:O	2:hk:288:ASP:CG	2.64	0.40
2:hs:4:ILE:HG22	2:kt:69:ALA:HA	2.04	0.40
2:ht:123:LYS:HE2	2:ht:123:LYS:HB3	2.01	0.40
2:hu:144:TYR:HB3	2:hu:145:PRO:CD	2.49	0.40
2:hx:274:ALA:CB	2:hx:297:VAL:HG21	2.52	0.40
2:hx:294:LEU:HD23	2:hx:294:LEU:C	2.47	0.40
1:hB:60:ARG:HB2	1:hB:102:GLU:N	2.37	0.40
2:hF:32:LEU:CD2	5:qv:178:PRO:CG	2.76	0.40
2:hF:141:HIS:N	2:hF:148:ASP:O	2.54	0.40
2:hH:171:TYR:CE1	2:hH:175:THR:HG21	2.56	0.40
2:hI:277:VAL:HG12	2:hI:278:VAL:HG13	2.03	0.40
2:hJ:236:GLN:HA	2:hJ:240:GLU:HB3	2.03	0.40
2:hK:243:TYR:CD1	2:hK:294:LEU:HD21	2.56	0.40
2:hS:141:HIS:N	2:hS:148:ASP:O	2.54	0.40
2:hT:40:SER:HB3	2:hT:179:LEU:HD13	2.03	0.40
2:hU:255:ARG:HG3	2:hX:116:GLU:OE1	2.21	0.40
2:hW:161:ALA:N	2:hW:162:PRO:CD	2.84	0.40
2:hY:264:LEU:HB2	2:hY:295:VAL:HG11	2.02	0.40
1:if:86:SER:O	1:if:90:LEU:N	2.47	0.40
2:ig:238:ASN:O	2:ig:242:VAL:HG23	2.21	0.40
2:ii:44:SER:O	2:ii:177:ARG:NH2	2.54	0.40
2:ik:238:ASN:O	2:ik:242:VAL:HG23	2.22	0.40
2:il:196:THR:O	2:il:196:THR:HG22	2.21	0.40
2:il:262:ASN:HA	2:il:295:VAL:HG22	2.04	0.40
2:im:221:PHE:HE2	2:im:241:LYS:HE3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:io:102:GLU:OE1	1:pR:98:LEU:O	2.39	0.40
2:iu:187:ARG:HD3	2:iu:194:SER:OG	2.21	0.40
2:iv:235:ASN:HD22	2:iv:283:LEU:HD13	1.87	0.40
2:ix:229:MET:HA	2:ix:284:ALA:HB3	2.04	0.40
2:iA:221:PHE:HD2	2:iA:224:TRP:HE1	1.69	0.40
1:iB:65:ARG:HG2	1:iB:96:ASP:CB	2.51	0.40
1:iH:62:THR:HG21	1:iH:97:PRO:HB3	2.03	0.40
2:iI:100:GLY:O	2:iI:103:MET:HG2	2.22	0.40
2:iK:224:TRP:CE2	2:iK:242:VAL:HG21	2.56	0.40
2:iL:229:MET:HA	2:iL:284:ALA:HB3	2.04	0.40
2:iM:226:LEU:HD23	2:iM:226:LEU:C	2.47	0.40
2:iN:9:ILE:O	2:iN:9:ILE:HG22	2.22	0.40
2:iW:187:ARG:HD3	2:iW:194:SER:OG	2.21	0.40
2:iX:42:THR:HG22	2:iX:43:ALA:H	1.85	0.40
2:iZ:30:THR:O	2:iZ:30:THR:HG22	2.22	0.40
2:iZ:171:TYR:CE1	2:iZ:175:THR:HG21	2.56	0.40
2:jc:243:TYR:CD1	2:jc:294:LEU:HD21	2.56	0.40
1:jg:60:ARG:HB2	1:jg:102:GLU:N	2.37	0.40
1:jj:96:ASP:HB3	1:jj:97:PRO:CD	2.51	0.40
2:jk:100:GLY:O	2:jk:103:MET:HG2	2.22	0.40
2:jm:255:ARG:HG3	2:jp:116:GLU:OE1	2.21	0.40
2:jn:196:THR:HG23	2:lw:187:ARG:NH2	2.36	0.40
2:jn:197:LYS:HZ2	1:lp:100:LYS:HB3	1.85	0.40
2:jn:234:LEU:HG	2:jn:239:PHE:HB2	2.02	0.40
2:jo:173:LEU:HD21	2:jo:219:VAL:HG13	2.04	0.40
2:jp:233:GLU:OE1	2:jp:234:LEU:HD22	2.20	0.40
2:jp:236:GLN:HA	2:jp:240:GLU:HB3	2.03	0.40
2:jA:224:TRP:CE2	2:jA:242:VAL:HG21	2.56	0.40
2:jD:9:ILE:HD11	2:lH:70:ALA:CB	2.51	0.40
2:jE:294:LEU:HD23	2:jE:294:LEU:C	2.47	0.40
1:jH:59:VAL:HG13	1:jH:77:GLY:HA2	2.04	0.40
1:jL:57:VAL:CG1	1:jL:59:VAL:HG13	2.50	0.40
2:jM:303:LEU:H	2:jM:303:LEU:HD23	1.86	0.40
2:jN:63:ARG:NH1	2:pN:196:THR:HG23	2.37	0.40
2:jN:75:ILE:HG21	2:jN:177:ARG:NH1	2.32	0.40
2:jN:171:TYR:CZ	2:pI:20:PHE:N	2.89	0.40
2:jN:224:TRP:CZ3	2:jN:226:LEU:HD13	2.56	0.40
2:jP:264:LEU:O	2:jP:297:VAL:HG23	2.21	0.40
2:jQ:9:ILE:O	2:jQ:9:ILE:CG2	2.68	0.40
2:jQ:238:ASN:O	2:jQ:242:VAL:HG23	2.22	0.40
2:jR:42:THR:O	2:jR:179:LEU:HD11	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jS:227:ALA:HB1	2:jS:229:MET:SD	2.61	0.40
2:ka:18:LYS:HA	2:ka:18:LYS:HD3	1.95	0.40
2:ka:100:GLY:O	2:ka:103:MET:HG2	2.22	0.40
2:ke:226:LEU:HD23	2:ke:226:LEU:C	2.47	0.40
2:kf:9:ILE:HD11	2:pX:70:ALA:CB	2.51	0.40
1:kh:58:PHE:HB3	1:kh:101:VAL:HG13	2.02	0.40
2:kq:187:ARG:HB2	2:kq:203:VAL:HG12	2.03	0.40
2:kr:143:VAL:HG13	2:kr:144:TYR:N	2.36	0.40
1:kx:86:SER:O	1:kx:90:LEU:N	2.50	0.40
2:kD:100:GLY:N	2:kD:101:PRO:CD	2.84	0.40
2:kE:171:TYR:CE1	2:kE:175:THR:HG21	2.56	0.40
2:kE:187:ARG:HB2	2:kE:203:VAL:HG12	2.03	0.40
2:kH:69:ALA:HA	2:kP:4:ILE:HG22	2.04	0.40
2:kH:144:TYR:HH	2:kH:254:GLY:H	1.67	0.40
1:kI:65:ARG:HG2	1:kI:96:ASP:CB	2.51	0.40
1:kK:58:PHE:HB3	1:kK:101:VAL:HG21	2.03	0.40
1:kM:91:GLU:O	1:kM:95:SER:OG	2.37	0.40
2:kS:99:TYR:CE1	2:mX:3:ILE:HD11	2.56	0.40
2:kU:42:THR:HG22	2:kU:43:ALA:N	2.36	0.40
2:kV:150:THR:C	2:kV:221:PHE:CD1	2.99	0.40
2:kV:232:GLU:HB3	2:kV:236:GLN:HG2	2.03	0.40
1:kY:91:GLU:HB2	2:IH:4:ILE:HG21	2.03	0.40
2:le:247:ARG:HD2	2:mK:268:THR:HG23	2.03	0.40
2:lg:30:THR:O	2:lg:30:THR:HG22	2.22	0.40
2:lh:238:ASN:O	2:lh:242:VAL:HG23	2.21	0.40
1:ln:98:LEU:O	1:pP:102:GLU:OE1	2.39	0.40
2:ls:106:MET:C	2:ls:106:MET:SD	3.05	0.40
2:IH:224:TRP:CE2	2:IH:242:VAL:HG21	2.56	0.40
2:II:221:PHE:CG	2:II:242:VAL:HG13	2.56	0.40
2:IJ:238:ASN:O	2:IJ:242:VAL:HG23	2.22	0.40
1:IO:58:PHE:HB3	1:IO:101:VAL:HG21	2.03	0.40
1:IO:59:VAL:HG13	1:IO:77:GLY:HA2	2.04	0.40
1:IO:96:ASP:HB2	2:IW:64:VAL:HA	2.04	0.40
2:IT:197:LYS:O	2:IT:198:GLU:CG	2.69	0.40
2:IT:238:ASN:O	2:IT:242:VAL:HG23	2.21	0.40
2:IU:224:TRP:CZ3	2:IU:226:LEU:HD13	2.56	0.40
2:IV:235:ASN:HD21	2:IV:290:PRO:HD2	1.86	0.40
2:IX:226:LEU:HD23	2:IX:226:LEU:C	2.47	0.40
2:IZ:243:TYR:CD1	2:IZ:294:LEU:HD21	2.56	0.40
2:IZ:274:ALA:CB	2:IZ:297:VAL:HG21	2.51	0.40
2:mh:219:VAL:O	2:mh:219:VAL:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mi:86:VAL:O	2:mi:201:GLU:O	2.40	0.40
2:mm:179:LEU:HD22	2:mm:209:TYR:HD2	1.86	0.40
2:mm:294:LEU:CD2	2:mm:295:VAL:HG23	2.40	0.40
1:mr:62:THR:HG22	1:mr:63:VAL:N	2.36	0.40
1:mt:63:VAL:HG13	1:mt:74:ASP:HB2	2.03	0.40
2:mv:100:GLY:O	2:mv:103:MET:HG2	2.22	0.40
2:mw:224:TRP:CZ3	2:mw:226:LEU:HD13	2.56	0.40
2:mx:68:MET:HE2	2:mx:68:MET:HB3	2.02	0.40
2:mx:235:ASN:HD21	2:mx:290:PRO:HD2	1.86	0.40
2:mx:243:TYR:CE1	2:mx:294:LEU:HD12	2.57	0.40
2:mA:9:ILE:O	2:mA:9:ILE:HG22	2.22	0.40
2:mB:228:ALA:HB3	2:mB:273:LYS:HE3	2.02	0.40
1:mD:82:ASP:OD1	1:mD:83:GLY:N	2.51	0.40
1:mD:98:LEU:O	2:mN:62:GLN:NE2	2.54	0.40
1:mF:62:THR:HG22	1:mF:63:VAL:N	2.36	0.40
2:mK:42:THR:HG22	2:mK:43:ALA:H	1.85	0.40
2:mL:79:LEU:HG	2:mN:59:TRP:CD1	2.56	0.40
2:mL:100:GLY:N	2:mL:101:PRO:CD	2.84	0.40
2:mL:255:ARG:HG3	2:mO:116:GLU:OE1	2.22	0.40
2:mM:264:LEU:O	2:mM:297:VAL:HG23	2.21	0.40
2:mN:12:LEU:HD21	2:nn:16:PHE:CD1	2.57	0.40
2:mN:123:LYS:HD3	2:mN:303:LEU:HB2	2.02	0.40
2:mN:163:ALA:O	2:mN:264:LEU:HD12	2.21	0.40
2:mP:64:VAL:O	2:mP:64:VAL:HG23	2.19	0.40
2:mP:228:ALA:HB3	2:mP:273:LYS:HE3	2.02	0.40
2:mP:274:ALA:CB	2:mP:297:VAL:HG21	2.52	0.40
2:na:187:ARG:HB2	2:na:203:VAL:HG12	2.03	0.40
2:na:221:PHE:CG	2:na:242:VAL:HG13	2.56	0.40
2:nb:161:ALA:N	2:nb:162:PRO:CD	2.84	0.40
2:nb:226:LEU:HD23	2:nb:226:LEU:C	2.46	0.40
2:nb:238:ASN:O	2:nb:242:VAL:HG23	2.22	0.40
2:nm:86:VAL:O	2:nm:201:GLU:O	2.40	0.40
2:nn:79:LEU:HG	2:np:59:TRP:CD1	2.56	0.40
2:no:171:TYR:CE1	2:no:175:THR:HG21	2.56	0.40
2:np:143:VAL:HG13	2:np:144:TYR:N	2.36	0.40
2:nq:187:ARG:NH2	2:oG:196:THR:HG23	2.36	0.40
2:nq:196:THR:O	2:nq:196:THR:HG22	2.21	0.40
1:nt:60:ARG:O	1:nt:61:ALA:HB3	2.21	0.40
1:nu:59:VAL:HG13	1:nu:77:GLY:HA2	2.04	0.40
2:nB:43:ALA:HB3	2:nE:13:LYS:HB3	2.03	0.40
2:nB:59:TRP:NE1	2:nB:63:ARG:HG3	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nE:62:GLN:CD	2:nE:62:GLN:N	2.79	0.40
2:nE:196:THR:O	2:nE:196:THR:HG22	2.22	0.40
1:nH:90:LEU:HB3	2:pj:4:ILE:HG23	2.02	0.40
1:nJ:103:ARG:NE	2:od:61:GLY:HA2	2.35	0.40
1:nM:96:ASP:HB3	1:nM:97:PRO:CD	2.51	0.40
2:nQ:229:MET:HA	2:nQ:284:ALA:HB3	2.04	0.40
2:nQ:276:GLU:OE2	2:nQ:280:VAL:HG21	2.21	0.40
2:ob:84:VAL:HG11	2:og:68:MET:HE3	2.04	0.40
2:og:9:ILE:O	2:og:9:ILE:HG22	2.21	0.40
2:op:167:GLY:N	2:op:262:ASN:OD1	2.54	0.40
2:or:68:MET:HE2	2:or:68:MET:HB3	2.02	0.40
2:or:280:VAL:HG22	2:or:282:ARG:H	1.85	0.40
2:os:187:ARG:HB2	2:os:203:VAL:HG12	2.04	0.40
2:ot:9:ILE:O	2:ot:9:ILE:CG2	2.68	0.40
2:ot:12:LEU:HD21	2:oT:16:PHE:CD1	2.57	0.40
2:ot:20:PHE:N	2:ot:20:PHE:CD1	2.87	0.40
2:ot:173:LEU:HD21	2:ot:219:VAL:HG13	2.04	0.40
2:ou:179:LEU:HD22	2:ou:209:TYR:HD2	1.86	0.40
2:ou:187:ARG:NH2	2:pY:196:THR:HG23	2.36	0.40
2:ov:239:PHE:CZ	2:ov:294:LEU:HD22	2.56	0.40
2:oD:167:GLY:N	2:oD:262:ASN:OD1	2.54	0.40
2:oE:8:LEU:N	2:oE:8:LEU:HD12	2.35	0.40
2:oH:238:ASN:O	2:oH:242:VAL:HG23	2.22	0.40
2:oI:262:ASN:HA	2:oI:295:VAL:HG22	2.04	0.40
2:oJ:150:THR:C	2:oJ:221:PHE:CD1	2.99	0.40
2:oJ:274:ALA:CB	2:oJ:297:VAL:HG21	2.52	0.40
1:oN:60:ARG:HB2	1:oN:102:GLU:N	2.37	0.40
1:oQ:57:VAL:CG1	1:oQ:59:VAL:HG13	2.50	0.40
2:oR:238:ASN:O	2:oR:242:VAL:HG23	2.21	0.40
2:oS:224:TRP:CZ3	2:oS:226:LEU:HD13	2.56	0.40
2:oX:182:LEU:O	2:oX:182:LEU:CD1	2.67	0.40
1:oZ:82:ASP:OD1	1:oZ:83:GLY:N	2.51	0.40
1:pe:57:VAL:CG1	1:pe:59:VAL:HG13	2.50	0.40
2:pf:187:ARG:HD3	2:pf:194:SER:OG	2.21	0.40
2:pj:163:ALA:O	2:pj:264:LEU:HD12	2.21	0.40
2:pj:287:ALA:O	2:pj:288:ASP:CG	2.63	0.40
2:pk:143:VAL:HG12	2:pk:144:TYR:N	2.36	0.40
2:pl:150:THR:C	2:pl:221:PHE:CD1	2.99	0.40
1:pn:82:ASP:OD1	1:pn:83:GLY:N	2.51	0.40
1:po:96:ASP:HB2	2:pw:64:VAL:HA	2.04	0.40
2:pt:197:LYS:O	2:pt:198:GLU:CG	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pu:82:SER:HB2	2:pu:206:ALA:H	1.85	0.40
2:pu:98:VAL:HG21	2:pN:9:ILE:HD11	2.02	0.40
2:pw:83:THR:HG23	2:pw:205:MET:CG	2.50	0.40
2:py:196:THR:O	2:py:196:THR:HG22	2.21	0.40
1:pC:59:VAL:HG13	1:pC:77:GLY:HA2	2.04	0.40
2:pJ:243:TYR:CE1	2:pJ:294:LEU:HD12	2.57	0.40
2:pK:229:MET:HA	2:pK:284:ALA:HB3	2.04	0.40
2:pL:9:ILE:O	2:pL:9:ILE:CG2	2.68	0.40
2:pN:227:ALA:HB1	2:pN:229:MET:SD	2.61	0.40
2:pN:239:PHE:CZ	2:pN:294:LEU:HD22	2.56	0.40
1:pR:62:THR:HG22	1:pR:63:VAL:N	2.36	0.40
2:pW:106:MET:C	2:pW:106:MET:SD	3.05	0.40
2:pX:243:TYR:CE1	2:pX:294:LEU:HD12	2.57	0.40
2:pY:228:ALA:HB1	2:pY:283:LEU:HD11	2.04	0.40
2:qa:143:VAL:HG12	2:qa:144:TYR:N	2.36	0.40
2:qb:150:THR:C	2:qb:221:PHE:CD1	2.99	0.40
2:qb:249:GLN:HB3	2:qb:257:LEU:HD12	2.02	0.40
3:qe:66:GLN:O	3:qe:67:ARG:CG	2.69	0.40
4:ql:222:GLY:C	4:qm:8:TYR:HH	2.00	0.40
4:qm:79:ASN:O	4:qm:83:THR:HG22	2.20	0.40
4:qm:80:LEU:HA	4:qm:83:THR:HG22	2.02	0.40
5:qr:158:GLN:OE1	5:qr:158:GLN:N	2.53	0.40
5:qt:35:HIS:HA	5:qt:66:ASP:OD2	2.21	0.40
5:qt:139:LEU:N	5:qt:139:LEU:HD12	2.36	0.40
5:qx:250:THR:CG2	6:qy:125:VAL:HG22	2.51	0.40
5:qx:348:TRP:HB3	5:qx:349:PRO:HD3	2.03	0.40
5:qB:16:GLN:HB3	5:qB:184:GLN:NE2	2.36	0.40
6:qC:8:ASP:HB3	6:qE:39:ARG:NH2	2.35	0.40
5:qD:234:ILE:HA	5:qF:262:ALA:O	2.21	0.40
5:qJ:250:THR:CG2	6:qK:125:VAL:HG22	2.51	0.40
5:qJ:385:PRO:O	5:qJ:389:ASN:OD1	2.38	0.40
1:ac:60:ARG:HB2	1:ac:102:GLU:N	2.37	0.40
1:ae:87:ASP:HB3	2:fD:5:THR:HG22	2.02	0.40
2:ag:197:LYS:O	2:ag:198:GLU:CG	2.69	0.40
2:aj:196:THR:HG23	2:oW:187:ARG:NH2	2.36	0.40
2:al:8:LEU:HD11	2:fA:72:GLY:H	1.86	0.40
2:am:196:THR:HG23	2:oS:63:ARG:NH1	2.37	0.40
2:am:303:LEU:H	2:am:303:LEU:HD23	1.87	0.40
1:aq:60:ARG:HB2	1:aq:102:GLU:N	2.37	0.40
1:aq:99:LEU:CB	1:dk:102:GLU:OE1	2.62	0.40
2:au:98:VAL:O	2:au:99:TYR:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:au:141:HIS:N	2:au:148:ASP:O	2.54	0.40
2:av:4:ILE:HG21	1:hN:91:GLU:HB2	2.03	0.40
2:av:72:GLY:H	2:gt:8:LEU:HD11	1.86	0.40
2:aw:79:LEU:HD13	2:az:60:ILE:H	1.87	0.40
2:aw:228:ALA:HB1	2:aw:283:LEU:HD11	2.04	0.40
2:ax:4:ILE:HG23	1:dk:90:LEU:HB3	2.02	0.40
2:ax:238:ASN:O	2:ax:242:VAL:HG23	2.22	0.40
2:ay:86:VAL:HG23	2:ay:202:GLN:HB2	2.04	0.40
2:az:104:GLN:OE1	5:qJ:31:GLU:CD	2.63	0.40
1:aB:60:ARG:O	1:aB:61:ALA:HB3	2.21	0.40
2:aH:59:TRP:CZ2	2:iW:199:ASP:HA	2.56	0.40
2:aL:163:ALA:O	2:aL:264:LEU:HD12	2.21	0.40
1:aP:98:LEU:O	2:aZ:62:GLN:NE2	2.54	0.40
1:aU:62:THR:HG21	1:aU:97:PRO:HB3	2.03	0.40
2:aV:167:GLY:N	2:aV:262:ASN:OD1	2.54	0.40
2:aV:197:LYS:O	2:aV:198:GLU:CG	2.69	0.40
2:aW:82:SER:HB2	2:aW:206:ALA:H	1.85	0.40
2:aW:86:VAL:O	2:aW:201:GLU:O	2.40	0.40
2:aZ:182:LEU:HG	2:aZ:182:LEU:O	2.21	0.40
2:ba:9:ILE:HD11	2:pv:70:ALA:CB	2.51	0.40
2:bb:150:THR:C	2:bb:221:PHE:CD1	2.99	0.40
2:bb:196:THR:HG23	2:bk:63:ARG:NH1	2.37	0.40
1:bi:57:VAL:CG1	1:bi:59:VAL:HG13	2.50	0.40
2:bj:235:ASN:ND2	2:bj:291:ASN:OD1	2.47	0.40
2:bl:255:ARG:HG3	2:bo:116:GLU:OE1	2.21	0.40
2:bn:12:LEU:HD21	2:kp:16:PHE:CD1	2.57	0.40
1:bs:96:ASP:HB2	2:bA:64:VAL:HA	2.04	0.40
1:bt:58:PHE:CE1	1:bt:101:VAL:HG21	2.57	0.40
2:by:171:TYR:CZ	2:dd:20:PHE:N	2.89	0.40
2:bA:229:MET:HA	2:bA:284:ALA:HB3	2.04	0.40
2:bB:163:ALA:O	2:bB:264:LEU:HD12	2.21	0.40
2:bB:226:LEU:HD23	2:bB:226:LEU:C	2.47	0.40
2:bD:30:THR:HG23	2:bD:298:LEU:HD13	2.02	0.40
2:bM:61:GLY:HA2	1:hB:103:ARG:NE	2.35	0.40
2:bO:4:ILE:HG23	1:gi:90:LEU:HB3	2.02	0.40
2:bO:143:VAL:HG13	2:bO:144:TYR:N	2.36	0.40
2:bP:9:ILE:HD11	2:IV:70:ALA:CB	2.51	0.40
2:bP:143:VAL:HG12	2:bP:144:TYR:N	2.36	0.40
2:bP:196:THR:O	2:bP:196:THR:HG22	2.21	0.40
2:bQ:232:GLU:O	2:bQ:234:LEU:N	2.55	0.40
2:bY:199:ASP:HA	2:dq:59:TRP:CZ2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:bZ:98:VAL:HG21	2:iO:9:ILE:HD11	2.02	0.40
2:bZ:171:TYR:CZ	2:dr:20:PHE:N	2.89	0.40
2:cc:4:ILE:HG23	1:eQ:90:LEU:HB3	2.02	0.40
2:cd:294:LEU:CD2	2:cd:295:VAL:HG23	2.39	0.40
1:cj:82:ASP:OD1	1:cj:83:GLY:N	2.52	0.40
2:cm:84:VAL:HG11	2:cr:68:MET:HE3	2.04	0.40
2:cm:141:HIS:N	2:cm:148:ASP:O	2.54	0.40
2:cn:63:ARG:NH1	2:iA:196:THR:HG23	2.37	0.40
2:cn:247:ARG:HD2	2:iv:268:THR:HG23	2.03	0.40
2:co:44:SER:O	2:co:177:ARG:NH2	2.54	0.40
2:co:91:ILE:HG22	2:co:99:TYR:CG	2.57	0.40
2:cq:226:LEU:HD23	2:cq:226:LEU:C	2.47	0.40
2:cr:143:VAL:HG12	2:cr:144:TYR:N	2.36	0.40
2:cs:9:ILE:HD11	2:iv:98:VAL:HG21	2.02	0.40
2:cs:249:GLN:HB3	2:cs:257:LEU:HD12	2.03	0.40
2:cs:299:ASP:O	2:cs:300:THR:OG1	2.36	0.40
2:cA:167:GLY:N	2:cA:262:ASN:OD1	2.54	0.40
2:cA:199:ASP:HA	2:pf:59:TRP:CZ2	2.56	0.40
2:cB:171:TYR:CZ	2:pg:20:PHE:N	2.89	0.40
2:cB:224:TRP:CZ3	2:cB:226:LEU:HD13	2.56	0.40
2:cC:16:PHE:CD1	2:dW:12:LEU:HD21	2.57	0.40
2:cD:171:TYR:CE1	2:cD:175:THR:HG21	2.56	0.40
2:cF:143:VAL:HG12	2:cF:144:TYR:N	2.36	0.40
1:cN:86:SER:O	1:cN:90:LEU:N	2.47	0.40
2:cO:84:VAL:HG11	2:cT:68:MET:HE3	2.04	0.40
2:cO:100:GLY:O	2:cO:103:MET:HG2	2.22	0.40
2:cP:2:ALA:N	1:fd:94:GLU:CG	2.83	0.40
2:cQ:91:ILE:HG22	2:cQ:99:TYR:CG	2.57	0.40
2:cR:197:LYS:HZ2	1:eU:100:LYS:HB3	1.85	0.40
2:cS:12:LEU:HD21	2:iK:16:PHE:CD1	2.57	0.40
2:cS:224:TRP:CE3	2:cS:226:LEU:HD12	2.57	0.40
2:cU:227:ALA:HB1	2:cU:229:MET:SD	2.61	0.40
1:cV:59:VAL:HG12	1:cV:61:ALA:N	2.28	0.40
1:cZ:82:ASP:OD1	1:cZ:83:GLY:N	2.52	0.40
2:de:243:TYR:CE1	2:de:294:LEU:HD12	2.57	0.40
2:dg:277:VAL:HG12	2:dg:278:VAL:HG13	2.03	0.40
2:dg:287:ALA:O	2:dg:288:ASP:CG	2.64	0.40
2:dh:179:LEU:HD22	2:dh:209:TYR:HD2	1.86	0.40
2:di:294:LEU:HD23	2:di:294:LEU:C	2.47	0.40
2:dr:8:LEU:HD12	2:dr:8:LEU:N	2.35	0.40
2:du:277:VAL:HG12	2:du:278:VAL:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dA:60:ARG:HB2	1:dA:102:GLU:N	2.37	0.40
1:dC:98:LEU:O	1:dC:99:LEU:C	2.65	0.40
2:dF:20:PHE:N	2:pg:171:TYR:CZ	2.89	0.40
2:dJ:42:THR:O	2:dJ:179:LEU:HD11	2.21	0.40
2:dJ:89:THR:N	2:dJ:200:ASP:OD2	2.36	0.40
2:dJ:196:THR:O	2:dJ:196:THR:HG22	2.21	0.40
2:dJ:236:GLN:HA	2:dJ:240:GLU:HB3	2.03	0.40
2:dK:150:THR:C	2:dK:221:PHE:CD1	2.99	0.40
1:dO:86:SER:O	1:dO:90:LEU:N	2.50	0.40
2:dT:171:TYR:CZ	2:oS:20:PHE:N	2.89	0.40
2:dT:268:THR:HG23	2:nO:247:ARG:HD2	2.03	0.40
2:dU:16:PHE:CD1	2:pL:12:LEU:HD21	2.57	0.40
2:dV:79:LEU:HD13	2:dY:60:ILE:H	1.87	0.40
2:dV:221:PHE:CG	2:dV:242:VAL:HG13	2.56	0.40
2:dV:229:MET:HA	2:dV:284:ALA:HB3	2.04	0.40
2:dW:143:VAL:HG13	2:dW:144:TYR:N	2.36	0.40
2:dW:238:ASN:O	2:dW:242:VAL:HG23	2.22	0.40
2:dX:8:LEU:HD11	2:jO:72:GLY:H	1.86	0.40
2:dX:238:ASN:O	2:dX:242:VAL:CG2	2.62	0.40
2:dY:232:GLU:O	2:dY:234:LEU:N	2.55	0.40
2:dY:239:PHE:CZ	2:dY:294:LEU:HD22	2.56	0.40
2:dY:246:MET:HB3	2:dY:259:ILE:HG21	2.04	0.40
2:dY:264:LEU:HB2	2:dY:295:VAL:HG11	2.02	0.40
1:ea:60:ARG:O	1:ea:61:ALA:HB3	2.21	0.40
1:ef:96:ASP:HB3	1:ef:97:PRO:CD	2.51	0.40
2:ej:144:TYR:HB3	2:ej:145:PRO:CD	2.49	0.40
2:ej:187:ARG:HB2	2:ej:203:VAL:HG12	2.04	0.40
2:ek:161:ALA:N	2:ek:162:PRO:CD	2.84	0.40
2:el:197:LYS:NZ	2:ml:62:GLN:NE2	2.68	0.40
2:em:69:ALA:HA	2:eu:4:ILE:HG22	2.04	0.40
2:em:226:LEU:HD21	2:em:273:LYS:HB3	2.03	0.40
1:en:100:LYS:HE3	1:et:100:LYS:NZ	2.37	0.40
1:eo:60:ARG:O	1:eo:61:ALA:HB3	2.21	0.40
1:ep:96:ASP:HB2	2:ex:64:VAL:HA	2.04	0.40
1:eq:98:LEU:O	1:oZ:102:GLU:OE1	2.39	0.40
2:eu:219:VAL:O	2:eu:219:VAL:HG22	2.21	0.40
2:ev:106:MET:C	2:ev:106:MET:SD	3.05	0.40
2:ew:70:ALA:CB	2:og:9:ILE:HD11	2.51	0.40
2:ex:93:ASP:O	2:gC:13:LYS:NZ	2.54	0.40
2:ex:187:ARG:HB2	2:ex:203:VAL:HG12	2.03	0.40
2:ez:262:ASN:HA	2:ez:295:VAL:HG22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eB:100:LYS:HE3	1:gB:100:LYS:NZ	2.37	0.40
1:eE:58:PHE:CE1	1:eE:101:VAL:HG21	2.57	0.40
1:eE:60:ARG:HB2	1:eE:102:GLU:N	2.37	0.40
1:eH:96:ASP:HB3	1:eH:97:PRO:CD	2.51	0.40
1:eH:99:LEU:HD23	1:gv:102:GLU:CG	2.18	0.40
2:eI:13:LYS:NZ	2:gr:93:ASP:O	2.54	0.40
2:eI:98:VAL:O	2:eI:99:TYR:HB3	2.20	0.40
2:eI:167:GLY:N	2:eI:262:ASN:OD1	2.54	0.40
2:eJ:86:VAL:O	2:eJ:201:GLU:O	2.40	0.40
2:eK:43:ALA:HB3	2:eN:13:LYS:HB3	2.03	0.40
2:eK:255:ARG:HG3	2:eN:116:GLU:OE1	2.21	0.40
2:eO:232:GLU:O	2:eO:234:LEU:N	2.55	0.40
1:eU:102:GLU:CD	1:iC:99:LEU:CG	2.93	0.40
1:eV:96:ASP:HB3	1:eV:97:PRO:CD	2.51	0.40
2:eX:224:TRP:CZ3	2:eX:226:LEU:HD13	2.56	0.40
2:eZ:187:ARG:HB2	2:eZ:203:VAL:HG12	2.04	0.40
2:eZ:229:MET:HA	2:eZ:284:ALA:HB3	2.04	0.40
2:fa:161:ALA:N	2:fa:162:PRO:CD	2.84	0.40
2:fa:182:LEU:HG	2:fa:182:LEU:O	2.21	0.40
2:fb:62:GLN:N	2:fb:62:GLN:CD	2.79	0.40
2:fb:86:VAL:HG23	2:fb:202:GLN:HB2	2.04	0.40
2:fb:262:ASN:HA	2:fb:295:VAL:HG22	2.04	0.40
1:ff:91:GLU:HB2	2:ii:4:ILE:HG21	2.03	0.40
2:fk:303:LEU:HD23	2:fk:303:LEU:H	1.86	0.40
2:fl:247:ARG:HD2	2:gD:268:THR:HG23	2.03	0.40
2:fn:221:PHE:CG	2:fn:242:VAL:HG13	2.56	0.40
2:fo:143:VAL:HG13	2:fo:144:TYR:N	2.36	0.40
2:fo:280:VAL:O	2:fo:289:ASN:ND2	2.54	0.40
2:fp:262:ASN:HA	2:fp:295:VAL:HG22	2.04	0.40
1:fs:65:ARG:HE	1:fs:96:ASP:HB2	1.86	0.40
2:fC:173:LEU:HD21	2:fC:219:VAL:HG13	2.04	0.40
2:fC:224:TRP:CE3	2:fC:226:LEU:HD12	2.57	0.40
2:fC:226:LEU:HD23	2:fC:226:LEU:C	2.47	0.40
2:fD:9:ILE:O	2:fD:9:ILE:HG22	2.22	0.40
2:fE:226:LEU:HA	2:fE:238:ASN:ND2	2.35	0.40
2:fE:239:PHE:CZ	2:fE:294:LEU:HD22	2.56	0.40
1:fG:60:ARG:O	1:fG:61:ALA:HB3	2.21	0.40
2:fM:187:ARG:HD3	2:fM:194:SER:OG	2.21	0.40
2:fO:16:PHE:CD1	2:hi:12:LEU:HD21	2.57	0.40
2:fS:150:THR:C	2:fS:221:PHE:CD1	2.99	0.40
2:fS:232:GLU:O	2:fS:234:LEU:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fU:64:GLU:OE1	1:fU:66:ARG:NH2	2.53	0.40
2:ga:189:LYS:O	2:ga:191:SER:N	2.55	0.40
2:gb:82:SER:HB2	2:gb:206:ALA:H	1.85	0.40
2:gb:205:MET:CE	2:ih:63:ARG:HD2	2.49	0.40
2:ge:224:TRP:CE3	2:ge:226:LEU:HD12	2.57	0.40
2:ge:226:LEU:HD23	2:ge:226:LEU:C	2.47	0.40
1:gn:60:ARG:HD2	1:gn:102:GLU:OE1	2.20	0.40
2:go:194:SER:O	2:go:199:ASP:O	2.39	0.40
2:go:235:ASN:ND2	2:go:291:ASN:OD1	2.47	0.40
2:gq:91:ILE:HG22	2:gq:99:TYR:CG	2.57	0.40
2:gs:257:LEU:HB3	2:gs:259:ILE:HD11	2.04	0.40
2:gt:262:ASN:HA	2:gt:295:VAL:HG22	2.04	0.40
2:gu:64:VAL:O	2:gu:64:VAL:HG23	2.19	0.40
1:gB:57:VAL:CG1	1:gB:59:VAL:HG13	2.50	0.40
2:gD:86:VAL:O	2:gD:201:GLU:O	2.40	0.40
2:gF:276:GLU:OE2	2:gF:280:VAL:HG21	2.22	0.40
2:gG:187:ARG:O	2:gG:187:ARG:CG	2.68	0.40
2:gG:238:ASN:O	2:gG:242:VAL:HG23	2.22	0.40
2:gH:8:LEU:HD11	2:ph:72:GLY:H	1.87	0.40
2:gH:236:GLN:HA	2:gH:240:GLU:HB3	2.03	0.40
2:gI:106:MET:HE3	2:gI:206:ALA:HB3	2.02	0.40
2:gQ:167:GLY:N	2:gQ:262:ASN:OD1	2.54	0.40
2:gQ:225:GLN:O	2:gQ:226:LEU:C	2.64	0.40
2:gR:75:ILE:HG21	2:gR:177:ARG:NH1	2.32	0.40
2:gR:247:ARG:HD2	2:ih:268:THR:HG23	2.03	0.40
2:gS:79:LEU:HG	2:gU:59:TRP:CD1	2.56	0.40
2:gS:100:GLY:N	2:gS:101:PRO:CD	2.84	0.40
2:gT:229:MET:HA	2:gT:284:ALA:HB3	2.04	0.40
2:gU:173:LEU:HD21	2:gU:219:VAL:HG13	2.04	0.40
2:gV:236:GLN:HA	2:gV:240:GLU:HB3	2.03	0.40
2:gW:232:GLU:O	2:gW:234:LEU:N	2.55	0.40
2:he:167:GLY:N	2:he:262:ASN:OD1	2.54	0.40
2:he:225:GLN:O	2:he:226:LEU:C	2.64	0.40
2:hi:163:ALA:O	2:hi:264:LEU:HD12	2.21	0.40
2:hj:9:ILE:HD11	2:oF:70:ALA:CB	2.51	0.40
1:hl:102:GLU:CG	1:kA:99:LEU:HD23	2.19	0.40
1:hn:103:ARG:H	2:kS:62:GLN:HG2	1.85	0.40
2:hv:182:LEU:HG	2:hv:182:LEU:O	2.20	0.40
2:hw:9:ILE:O	2:hw:9:ILE:HG22	2.22	0.40
2:hw:42:THR:HG22	2:hw:43:ALA:N	2.36	0.40
2:hw:143:VAL:HG12	2:hw:144:TYR:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hw:262:ASN:HA	2:hw:295:VAL:HG22	2.04	0.40
2:hx:221:PHE:HD2	2:hx:224:TRP:HE1	1.69	0.40
1:hz:90:LEU:HB3	2:kF:4:ILE:HG23	2.02	0.40
1:hA:59:VAL:HG13	1:hA:77:GLY:HA2	2.04	0.40
2:hF:197:LYS:O	2:hF:198:GLU:CG	2.69	0.40
2:hJ:9:ILE:O	2:hJ:9:ILE:HG22	2.22	0.40
2:hJ:42:THR:HG22	2:hJ:43:ALA:N	2.36	0.40
2:hK:150:THR:C	2:hK:221:PHE:CD1	2.99	0.40
1:hO:60:ARG:HB2	1:hO:102:GLU:N	2.37	0.40
2:hU:44:SER:O	2:hU:177:ARG:NH2	2.54	0.40
2:hU:243:TYR:CE1	2:hU:294:LEU:HD12	2.57	0.40
2:hW:257:LEU:HB3	2:hW:259:ILE:HD11	2.04	0.40
2:hX:9:ILE:HG22	2:hX:9:ILE:O	2.22	0.40
2:hX:196:THR:HG22	2:hX:196:THR:O	2.21	0.40
2:ih:235:ASN:HD22	2:ih:283:LEU:HD13	1.87	0.40
2:ii:243:TYR:CE1	2:ii:294:LEU:HD12	2.57	0.40
2:ij:187:ARG:HB2	2:ij:203:VAL:HG12	2.03	0.40
2:il:9:ILE:HG22	2:il:9:ILE:O	2.21	0.40
2:il:179:LEU:HD22	2:il:209:TYR:HD2	1.86	0.40
2:im:294:LEU:HD23	2:im:294:LEU:C	2.47	0.40
1:io:65:ARG:HE	1:io:96:ASP:HB2	1.86	0.40
1:it:62:THR:HG21	1:it:97:PRO:HB3	2.03	0.40
2:iw:72:GLY:H	2:ou:8:LEU:HD11	1.86	0.40
2:iw:243:TYR:CE1	2:iw:294:LEU:HD12	2.57	0.40
2:iy:226:LEU:HD23	2:iy:226:LEU:C	2.46	0.40
2:iz:187:ARG:NH2	2:jP:196:THR:HG23	2.36	0.40
2:iA:274:ALA:CB	2:iA:297:VAL:HG21	2.52	0.40
1:iD:58:PHE:HB3	1:iD:101:VAL:HG21	2.03	0.40
1:iD:59:VAL:HG13	1:iD:77:GLY:HA2	2.04	0.40
2:iK:79:LEU:HG	2:iM:59:TRP:CD1	2.56	0.40
2:iL:3:ILE:HD13	2:iL:9:ILE:HD13	2.03	0.40
2:iL:187:ARG:HB2	2:iL:203:VAL:HG12	2.03	0.40
1:iR:96:ASP:HB2	2:iZ:64:VAL:HA	2.04	0.40
1:iV:62:THR:HG21	1:iV:97:PRO:HB3	2.03	0.40
2:iW:167:GLY:N	2:iW:262:ASN:OD1	2.54	0.40
2:iX:106:MET:SD	2:iX:106:MET:C	3.05	0.40
2:iX:224:TRP:CZ3	2:iX:226:LEU:HD13	2.56	0.40
2:iX:235:ASN:HD22	2:iX:283:LEU:HD13	1.87	0.40
2:iZ:276:GLU:OE2	2:iZ:280:VAL:HG21	2.21	0.40
2:jb:179:LEU:HD22	2:jb:209:TYR:HD2	1.86	0.40
2:jb:262:ASN:HA	2:jb:295:VAL:HG22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jl:106:MET:SD	2:jl:106:MET:C	3.05	0.40
2:jm:44:SER:O	2:jm:177:ARG:NH2	2.54	0.40
2:jm:243:TYR:CE1	2:jm:294:LEU:HD12	2.57	0.40
2:jn:79:LEU:HD13	2:jq:60:ILE:H	1.87	0.40
2:jp:196:THR:O	2:jp:196:THR:HG22	2.21	0.40
2:jy:59:TRP:CZ2	2:pV:199:ASP:HA	2.56	0.40
2:jy:167:GLY:N	2:jy:262:ASN:OD1	2.54	0.40
2:jz:86:VAL:O	2:jz:201:GLU:O	2.40	0.40
2:jA:16:PHE:CD1	2:nb:12:LEU:HD21	2.57	0.40
2:jA:79:LEU:HG	2:jC:59:TRP:CD1	2.56	0.40
2:jB:83:THR:HG23	2:jB:205:MET:CG	2.51	0.40
2:jB:187:ARG:HB2	2:jB:203:VAL:HG12	2.03	0.40
2:jC:62:GLN:NE2	2:lK:197:LYS:NZ	2.68	0.40
2:jC:123:LYS:HD3	2:jC:303:LEU:HB2	2.02	0.40
2:jC:163:ALA:O	2:jC:264:LEU:HD12	2.21	0.40
2:jC:277:VAL:HG12	2:jC:278:VAL:HG13	2.03	0.40
2:jC:287:ALA:O	2:jC:288:ASP:CG	2.64	0.40
2:jD:8:LEU:HD11	2:IH:72:GLY:H	1.86	0.40
2:jD:196:THR:O	2:jD:196:THR:HG22	2.21	0.40
2:jD:197:LYS:HZ1	2:lJ:62:GLN:HE21	1.66	0.40
2:jE:69:ALA:HA	2:pV:4:ILE:HG22	2.04	0.40
2:jE:150:THR:C	2:jE:221:PHE:CD1	2.99	0.40
2:jE:221:PHE:HD2	2:jE:224:TRP:HE1	1.69	0.40
1:jG:90:LEU:HB3	2:oV:4:ILE:HG23	2.02	0.40
1:jJ:103:ARG:HD2	2:pH:61:GLY:CA	2.40	0.40
2:jM:187:ARG:HD3	2:jM:194:SER:OG	2.21	0.40
2:jP:229:MET:HA	2:jP:284:ALA:HB3	2.04	0.40
2:jQ:287:ALA:O	2:jQ:288:ASP:CG	2.64	0.40
2:jS:150:THR:C	2:jS:221:PHE:CD1	2.99	0.40
2:jS:299:ASP:O	2:jS:300:THR:OG1	2.36	0.40
1:jV:91:GLU:HB2	2:mZ:4:ILE:HG21	2.03	0.40
1:jZ:57:VAL:CG1	1:jZ:59:VAL:HG13	2.50	0.40
2:kd:148:ASP:OD1	2:kd:149:GLY:N	2.53	0.40
2:kd:276:GLU:OE2	2:kd:280:VAL:HG21	2.21	0.40
2:ke:123:LYS:HD3	2:ke:303:LEU:HB2	2.02	0.40
2:kg:226:LEU:HD21	2:kg:273:LYS:HB3	2.03	0.40
1:kn:57:VAL:CG1	1:kn:59:VAL:HG13	2.50	0.40
2:kp:243:TYR:CE1	2:kp:294:LEU:HD12	2.57	0.40
2:kt:287:ALA:O	2:kt:288:ASP:CG	2.64	0.40
2:kt:294:LEU:HD23	2:kt:294:LEU:C	2.47	0.40
1:kw:59:VAL:HG13	1:kw:77:GLY:HA2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kE:196:THR:HG23	2:kU:187:ARG:NH2	2.36	0.40
2:kQ:224:TRP:CZ3	2:kQ:226:LEU:HD13	2.56	0.40
2:kR:235:ASN:HD21	2:kR:290:PRO:HD2	1.86	0.40
2:kS:187:ARG:HB2	2:kS:203:VAL:HG12	2.03	0.40
2:kS:264:LEU:O	2:kS:297:VAL:HG23	2.21	0.40
2:kT:226:LEU:HD23	2:kT:226:LEU:C	2.46	0.40
2:kU:42:THR:O	2:kU:179:LEU:HD11	2.21	0.40
2:kV:226:LEU:HD21	2:kV:273:LYS:HB3	2.03	0.40
1:lc:86:SER:O	1:lc:90:LEU:N	2.47	0.40
2:ld:199:ASP:HA	2:mJ:59:TRP:CZ2	2.56	0.40
2:lf:16:PHE:CD1	2:oH:12:LEU:HD21	2.57	0.40
2:lf:72:GLY:H	2:nq:8:LEU:HD11	1.87	0.40
2:lh:4:ILE:HG23	1:lz:90:LEU:HB3	2.02	0.40
2:lh:143:VAL:HG13	2:lh:144:TYR:N	2.36	0.40
2:li:267:PRO:HD2	2:li:270:LEU:HD12	2.04	0.40
1:lm:58:PHE:HB3	1:lm:101:VAL:HG21	2.03	0.40
1:lq:96:ASP:HB3	1:lq:97:PRO:CD	2.51	0.40
2:lr:197:LYS:O	2:lr:198:GLU:CG	2.69	0.40
2:ls:40:SER:HB3	2:ls:179:LEU:HD13	2.03	0.40
2:lu:229:MET:HA	2:lu:284:ALA:HB3	2.04	0.40
2:lu:276:GLU:OE2	2:lu:280:VAL:HG21	2.21	0.40
2:lv:12:LEU:HD21	2:pX:16:PHE:CD1	2.57	0.40
2:lv:163:ALA:O	2:lv:264:LEU:HD12	2.21	0.40
2:lw:262:ASN:HA	2:lw:295:VAL:HG22	2.04	0.40
2:lx:226:LEU:HD21	2:lx:273:LYS:HB3	2.03	0.40
2:lF:98:VAL:O	2:lF:99:TYR:HB3	2.21	0.40
2:lF:197:LYS:O	2:lF:198:GLU:CG	2.69	0.40
2:lF:225:GLN:O	2:lF:226:LEU:C	2.64	0.40
2:lG:86:VAL:O	2:lG:201:GLU:O	2.40	0.40
2:lL:221:PHE:HD2	2:lL:224:TRP:HE1	1.69	0.40
1:lP:62:THR:HG22	1:lP:63:VAL:N	2.36	0.40
2:lY:196:THR:O	2:lY:196:THR:HG22	2.21	0.40
2:lZ:232:GLU:O	2:lZ:234:LEU:N	2.55	0.40
2:lZ:232:GLU:HB3	2:lZ:236:GLN:HG2	2.03	0.40
1:mc:59:VAL:HG13	1:mc:77:GLY:HA2	2.04	0.40
1:md:90:LEU:O	2:mv:4:ILE:HD11	2.21	0.40
2:mi:224:TRP:CZ3	2:mi:226:LEU:HD13	2.56	0.40
2:mj:16:PHE:CD1	2:nD:12:LEU:HD21	2.57	0.40
2:mj:59:TRP:NE1	2:mj:63:ARG:HG3	2.35	0.40
2:ml:123:LYS:HD3	2:ml:303:LEU:HB2	2.02	0.40
2:mn:246:MET:HB3	2:mn:259:ILE:HG21	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:mq:59:VAL:HG13	1:mq:77:GLY:HA2	2.04	0.40
1:mr:60:ARG:HB2	1:mr:102:GLU:N	2.37	0.40
1:mt:97:PRO:HD2	2:mx:65:ILE:O	2.22	0.40
2:mv:189:LYS:O	2:mv:191:SER:N	2.55	0.40
2:mw:83:THR:HG23	2:mw:203:VAL:CG1	2.52	0.40
2:mw:86:VAL:O	2:mw:201:GLU:O	2.39	0.40
2:mw:193:THR:HG23	2:od:193:THR:HG22	1.99	0.40
2:mz:224:TRP:CE3	2:mz:226:LEU:HD12	2.57	0.40
2:mB:246:MET:HB3	2:mB:259:ILE:HG21	2.04	0.40
2:mB:274:ALA:CB	2:mB:297:VAL:HG21	2.52	0.40
1:mE:96:ASP:HB2	2:mM:64:VAL:HA	2.04	0.40
1:mE:103:ARG:H	2:no:62:GLN:HG2	1.85	0.40
2:mJ:100:GLY:O	2:mJ:103:MET:HG2	2.22	0.40
2:mJ:182:LEU:H	2:mJ:182:LEU:HD23	1.85	0.40
2:mL:72:GLY:H	2:ow:8:LEU:HD11	1.86	0.40
2:mL:235:ASN:HD21	2:mL:290:PRO:HD2	1.86	0.40
2:mP:226:LEU:HA	2:mP:238:ASN:ND2	2.35	0.40
1:mT:62:THR:HG22	1:mT:63:VAL:N	2.36	0.40
1:mW:60:ARG:HD2	1:mW:102:GLU:OE1	2.20	0.40
2:na:264:LEU:O	2:na:297:VAL:HG23	2.21	0.40
2:nb:143:VAL:HG13	2:nb:144:TYR:N	2.36	0.40
2:nb:173:LEU:HD21	2:nb:219:VAL:HG13	2.04	0.40
2:nc:196:THR:O	2:nc:196:THR:HG22	2.21	0.40
1:ng:59:VAL:HG13	1:ng:77:GLY:HA2	2.04	0.40
1:nj:100:LYS:HB3	2:og:197:LYS:HZ2	1.86	0.40
1:nk:96:ASP:HB3	1:nk:97:PRO:CD	2.51	0.40
2:np:173:LEU:HD21	2:np:219:VAL:HG13	2.04	0.40
2:nq:262:ASN:HA	2:nq:295:VAL:HG22	2.04	0.40
2:nr:232:GLU:O	2:nr:234:LEU:N	2.55	0.40
2:nz:219:VAL:O	2:nz:219:VAL:HG22	2.21	0.40
2:nB:255:ARG:HG3	2:nE:116:GLU:OE1	2.21	0.40
2:nD:173:LEU:HD21	2:nD:219:VAL:HG13	2.04	0.40
2:nE:179:LEU:HD22	2:nE:209:TYR:HD2	1.86	0.40
2:nF:221:PHE:HE2	2:nF:241:LYS:HE3	1.86	0.40
2:nF:232:GLU:HB3	2:nF:236:GLN:HG2	2.03	0.40
1:nG:58:PHE:HB3	1:nG:101:VAL:HG13	2.02	0.40
2:nQ:187:ARG:HB2	2:nQ:203:VAL:HG12	2.04	0.40
2:nQ:264:LEU:O	2:nQ:297:VAL:HG23	2.21	0.40
2:nS:262:ASN:HA	2:nS:295:VAL:HG22	2.04	0.40
2:nT:226:LEU:HD21	2:nT:273:LYS:HB3	2.03	0.40
2:nT:232:GLU:O	2:nT:234:LEU:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:nU:65:ARG:HG2	1:nU:96:ASP:CB	2.51	0.40
2:ob:167:GLY:N	2:ob:262:ASN:OD1	2.54	0.40
2:of:173:LEU:HD21	2:of:219:VAL:HG13	2.04	0.40
2:of:226:LEU:HD23	2:of:226:LEU:C	2.46	0.40
2:oh:232:GLU:HB3	2:oh:236:GLN:HG2	2.03	0.40
2:oh:287:ALA:O	2:oh:288:ASP:CG	2.64	0.40
1:ok:59:VAL:HG13	1:ok:77:GLY:HA2	2.04	0.40
1:on:63:VAL:HG13	1:on:74:ASP:HB2	2.03	0.40
2:op:238:ASN:O	2:op:242:VAL:HG23	2.21	0.40
2:os:229:MET:HA	2:os:284:ALA:HB3	2.04	0.40
2:ov:232:GLU:O	2:ov:234:LEU:N	2.55	0.40
2:ov:243:TYR:CD1	2:ov:294:LEU:HD21	2.56	0.40
1:ox:65:ARG:HE	1:ox:96:ASP:HB2	1.86	0.40
2:oF:13:LYS:HB3	2:oH:43:ALA:HB3	2.02	0.40
2:oF:44:SER:O	2:oF:177:ARG:NH2	2.54	0.40
2:oJ:30:THR:HG23	2:oJ:298:LEU:HD13	2.02	0.40
2:oJ:226:LEU:HD21	2:oJ:273:LYS:HB3	2.02	0.40
2:oJ:227:ALA:HB1	2:oJ:229:MET:SD	2.61	0.40
2:OR:197:LYS:O	2:OR:198:GLU:CG	2.69	0.40
2:OR:219:VAL:O	2:OR:219:VAL:HG22	2.21	0.40
2:OU:3:ILE:HD13	2:OU:9:ILE:HD13	2.03	0.40
2:OV:173:LEU:HD21	2:OV:219:VAL:HG13	2.04	0.40
2:OX:246:MET:HB3	2:OX:259:ILE:HG21	2.04	0.40
2:pf:100:GLY:O	2:pf:103:MET:HG2	2.22	0.40
2:pf:189:LYS:O	2:pf:191:SER:N	2.55	0.40
2:pi:148:ASP:OD1	2:pi:149:GLY:N	2.53	0.40
2:pi:187:ARG:HB2	2:pi:203:VAL:HG12	2.03	0.40
2:pj:161:ALA:N	2:pj:162:PRO:CD	2.84	0.40
2:pk:9:ILE:O	2:pk:9:ILE:HG22	2.22	0.40
2:pk:238:ASN:O	2:pk:242:VAL:CG2	2.62	0.40
2:pl:221:PHE:HD2	2:pl:224:TRP:HE1	1.69	0.40
1:pp:103:ARG:NE	2:pJ:61:GLY:HA2	2.35	0.40
2:pv:43:ALA:HB3	2:py:13:LYS:HB3	2.03	0.40
2:pv:224:TRP:CE2	2:pv:242:VAL:HG21	2.56	0.40
2:pw:229:MET:HA	2:pw:284:ALA:HB3	2.04	0.40
2:px:226:LEU:HD23	2:px:226:LEU:C	2.47	0.40
2:pz:196:THR:HG23	2:pI:63:ARG:NH1	2.37	0.40
2:pJ:235:ASN:HD21	2:pJ:290:PRO:HD2	1.86	0.40
2:pL:226:LEU:HD23	2:pL:226:LEU:C	2.47	0.40
2:pM:9:ILE:HG22	2:pM:9:ILE:O	2.21	0.40
2:pN:226:LEU:HD21	2:pN:273:LYS:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pW:235:ASN:HD22	2:pW:283:LEU:HD13	1.87	0.40
2:pX:255:ARG:HG3	2:qa:116:GLU:OE1	2.22	0.40
2:pY:171:TYR:CE1	2:pY:175:THR:HG21	2.56	0.40
2:pY:276:GLU:OE2	2:pY:280:VAL:HG21	2.21	0.40
2:qb:30:THR:HG23	2:qb:298:LEU:HD13	2.02	0.40
2:qb:221:PHE:HD2	2:qb:224:TRP:HE1	1.69	0.40
2:qb:264:LEU:HB2	2:qb:295:VAL:HG11	2.02	0.40
2:qb:303:LEU:H	2:qb:303:LEU:HD23	1.87	0.40
1:qc:65:ARG:HG2	1:qc:96:ASP:CB	2.51	0.40
3:qg:63:GLN:HE21	4:qj:221:ASP:CA	1.62	0.40
3:qh:62:HIS:NE2	4:qj:224:THR:HA	2.37	0.40
4:qk:64:LYS:O	4:ql:55:ALA:CB	2.68	0.40
5:qr:234:ILE:HA	5:qt:262:ALA:O	2.21	0.40
5:qr:348:TRP:HB3	5:qr:349:PRO:HD3	2.03	0.40
5:qr:385:PRO:O	5:qr:389:ASN:OD1	2.38	0.40
6:qs:133:ASP:CG	5:qL:42:PRO:CD	2.93	0.40
5:qt:112:LEU:HD21	5:qt:350:LEU:HD22	2.04	0.40
5:qv:16:GLN:HB3	5:qv:184:GLN:NE2	2.36	0.40
5:qv:250:THR:CG2	6:qw:125:VAL:HG22	2.51	0.40
5:qz:384:ILE:N	5:qz:385:PRO:HD2	2.37	0.40
5:qB:384:ILE:N	5:qB:385:PRO:HD2	2.37	0.40
5:qH:250:THR:CG2	6:qI:125:VAL:HG22	2.51	0.40
5:qJ:258:LEU:O	5:qJ:261:ALA:O	2.39	0.40
5:qL:85:ILE:HD13	5:qL:331:LEU:HD12	2.02	0.40
1:ae:98:LEU:O	1:ae:99:LEU:C	2.65	0.40
2:ag:225:GLN:O	2:ag:226:LEU:C	2.64	0.40
2:ah:63:ARG:NH1	2:oh:196:THR:HG23	2.37	0.40
2:ah:106:MET:C	2:ah:106:MET:SD	3.05	0.40
2:ai:91:ILE:HG22	2:ai:99:TYR:CG	2.57	0.40
2:aj:3:ILE:HD13	2:aj:9:ILE:HD13	2.03	0.40
1:as:97:PRO:HD2	2:av:65:ILE:O	2.22	0.40
2:av:224:TRP:CE2	2:av:242:VAL:HG21	2.56	0.40
2:aw:197:LYS:HZ2	1:km:100:LYS:HB3	1.85	0.40
2:ax:12:LEU:HD21	2:ds:16:PHE:CD1	2.57	0.40
2:ax:173:LEU:HD21	2:ax:219:VAL:HG13	2.04	0.40
2:ay:9:ILE:O	2:ay:9:ILE:HG22	2.21	0.40
2:az:144:TYR:HH	2:az:254:GLY:H	1.68	0.40
1:aD:62:THR:HG22	1:aD:63:VAL:N	2.36	0.40
2:aH:3:ILE:HD11	2:kd:99:TYR:CE1	2.56	0.40
2:aH:13:LYS:NZ	2:kd:93:ASP:O	2.54	0.40
2:aJ:255:ARG:HG3	2:aM:116:GLU:OE1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aL:9:ILE:O	2:aL:9:ILE:CG2	2.68	0.40
2:aL:277:VAL:HG12	2:aL:278:VAL:HG13	2.03	0.40
2:aM:8:LEU:HD11	2:mZ:72:GLY:H	1.86	0.40
2:aM:267:PRO:HD2	2:aM:270:LEU:HD12	2.04	0.40
1:aO:100:LYS:HE3	1:iV:100:LYS:NZ	2.37	0.40
1:aQ:59:VAL:HG13	1:aQ:77:GLY:HA2	2.04	0.40
1:aR:60:ARG:HB2	1:aR:102:GLU:N	2.37	0.40
1:aT:86:SER:O	1:aT:90:LEU:N	2.51	0.40
1:aT:98:LEU:O	1:aT:99:LEU:C	2.65	0.40
2:aV:4:ILE:HG22	2:iO:69:ALA:HA	2.04	0.40
2:aV:189:LYS:O	2:aV:191:SER:N	2.55	0.40
2:aW:63:ARG:NH1	2:iO:196:THR:HG23	2.37	0.40
2:aW:106:MET:C	2:aW:106:MET:SD	3.05	0.40
2:aY:117:LEU:HD21	2:aY:211:TYR:HA	2.04	0.40
2:bj:226:LEU:O	2:bj:273:LYS:NZ	2.48	0.40
2:bl:70:ALA:CB	2:jp:9:ILE:HD11	2.51	0.40
2:bl:72:GLY:H	2:jp:8:LEU:HD11	1.86	0.40
2:bm:187:ARG:HB2	2:bm:203:VAL:HG12	2.03	0.40
2:bn:173:LEU:HD21	2:bn:219:VAL:HG13	2.04	0.40
2:bp:182:LEU:O	2:bp:182:LEU:CD1	2.67	0.40
1:bq:100:LYS:HE3	1:dp:100:LYS:NZ	2.37	0.40
1:br:102:GLU:OE1	1:eS:98:LEU:O	2.39	0.40
1:bw:62:THR:HG21	1:bw:97:PRO:HB3	2.03	0.40
2:bx:18:LYS:HA	2:bx:18:LYS:HD3	1.95	0.40
2:by:106:MET:C	2:by:106:MET:SD	3.05	0.40
2:bz:16:PHE:CD1	2:fa:12:LEU:HD21	2.57	0.40
2:bz:43:ALA:HB3	2:bC:13:LYS:HB3	2.03	0.40
2:bz:235:ASN:HD21	2:bz:290:PRO:HD2	1.86	0.40
2:bA:99:TYR:CE1	2:hS:3:ILE:HD11	2.56	0.40
2:bB:224:TRP:CE3	2:bB:226:LEU:HD12	2.57	0.40
2:bD:69:ALA:HA	2:hS:4:ILE:HG22	2.04	0.40
2:bD:226:LEU:HD21	2:bD:273:LYS:HB3	2.03	0.40
2:bL:4:ILE:HD11	1:hB:90:LEU:O	2.21	0.40
2:bM:72:GLY:H	2:lY:8:LEU:HD11	1.86	0.40
2:bO:12:LEU:HD21	2:gq:16:PHE:CD1	2.57	0.40
2:bQ:228:ALA:HB3	2:bQ:273:LYS:HE3	2.02	0.40
2:bQ:274:ALA:CB	2:bQ:297:VAL:HG21	2.52	0.40
1:bU:98:LEU:O	1:eQ:102:GLU:OE1	2.39	0.40
2:bY:194:SER:O	2:bY:199:ASP:O	2.39	0.40
2:cb:196:THR:HG23	2:iN:187:ARG:NH2	2.36	0.40
1:ci:103:ARG:NE	2:pv:61:GLY:HA2	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cl:62:THR:HG21	1:cl:97:PRO:HB3	2.03	0.40
1:cl:100:LYS:NZ	1:iB:100:LYS:HE3	2.37	0.40
2:co:4:ILE:HG21	1:jf:91:GLU:HB2	2.03	0.40
2:co:68:MET:HE2	2:co:68:MET:HB3	2.02	0.40
2:cp:196:THR:HG23	2:py:187:ARG:NH2	2.36	0.40
2:cp:229:MET:HA	2:cp:284:ALA:HB3	2.04	0.40
2:cr:9:ILE:HG22	2:cr:9:ILE:O	2.22	0.40
2:cs:232:GLU:HB3	2:cs:236:GLN:HG2	2.03	0.40
1:ct:59:VAL:HG12	1:ct:61:ALA:N	2.28	0.40
1:cw:62:THR:HG22	1:cw:63:VAL:N	2.36	0.40
2:cA:189:LYS:O	2:cA:191:SER:N	2.55	0.40
2:cA:219:VAL:O	2:cA:219:VAL:HG22	2.21	0.40
2:cB:83:THR:HG23	2:cB:203:VAL:CG1	2.52	0.40
2:cB:121:LEU:HD22	2:cB:212:GLY:C	2.47	0.40
2:cD:93:ASP:O	2:cO:13:LYS:NZ	2.54	0.40
2:cD:277:VAL:O	2:cD:289:ASN:ND2	2.48	0.40
2:cE:20:PHE:N	2:cE:20:PHE:CD1	2.87	0.40
2:cE:257:LEU:HB3	2:cE:259:ILE:HD11	2.04	0.40
2:cF:86:VAL:HG23	2:cF:202:GLN:HB2	2.04	0.40
2:cF:197:LYS:NZ	2:nR:62:GLN:NE2	2.68	0.40
2:cG:150:THR:C	2:cG:221:PHE:CD1	2.99	0.40
1:cJ:99:LEU:HD23	1:po:102:GLU:HB3	1.96	0.40
2:cO:167:GLY:N	2:cO:262:ASN:OD1	2.54	0.40
2:cP:40:SER:HB3	2:cP:179:LEU:HD13	2.03	0.40
2:cQ:44:SER:O	2:cQ:177:ARG:NH2	2.54	0.40
2:cQ:63:ARG:NH2	2:cT:207:ASP:OD1	2.53	0.40
2:cQ:243:TYR:CE1	2:cQ:294:LEU:HD12	2.57	0.40
2:cU:294:LEU:HD23	2:cU:294:LEU:C	2.47	0.40
1:cV:65:ARG:HG2	1:cV:96:ASP:CB	2.51	0.40
1:cY:60:ARG:HB2	1:cY:102:GLU:N	2.37	0.40
1:db:100:LYS:NZ	1:eP:100:LYS:HE3	2.37	0.40
2:dd:83:THR:HG23	2:dd:203:VAL:CG1	2.52	0.40
2:dd:121:LEU:HD22	2:dd:212:GLY:C	2.47	0.40
2:de:68:MET:HE2	2:de:68:MET:HB3	2.02	0.40
2:de:255:ARG:HG3	2:dh:116:GLU:OE1	2.21	0.40
2:df:83:THR:HG23	2:df:205:MET:CG	2.50	0.40
2:dh:143:VAL:HG12	2:dh:144:TYR:N	2.36	0.40
2:di:287:ALA:O	2:di:288:ASP:CG	2.64	0.40
1:dm:58:PHE:CE1	1:dm:101:VAL:HG21	2.57	0.40
2:dq:194:SER:O	2:dq:199:ASP:O	2.39	0.40
2:ds:72:GLY:H	2:ks:8:LEU:HD11	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:dt:171:TYR:CE1	2:dt:175:THR:HG21	2.56	0.40
2:dv:9:ILE:O	2:dv:9:ILE:HG22	2.22	0.40
2:dv:42:THR:O	2:dv:179:LEU:HD11	2.21	0.40
2:dw:226:LEU:HD21	2:dw:273:LYS:HB3	2.03	0.40
2:dw:294:LEU:HD23	2:dw:294:LEU:C	2.47	0.40
1:dA:62:THR:HG22	1:dA:63:VAL:N	2.36	0.40
2:dF:63:ARG:NH1	2:fc:196:THR:HG23	2.37	0.40
2:dG:255:ARG:HG3	2:dJ:116:GLU:OE1	2.22	0.40
2:dH:196:THR:HG23	2:pk:187:ARG:NH2	2.36	0.40
2:dH:229:MET:HA	2:dH:284:ALA:HB3	2.04	0.40
2:dK:62:GLN:HB3	1:gw:103:ARG:O	2.20	0.40
1:dO:58:PHE:CE1	1:dO:101:VAL:HG21	2.57	0.40
2:dW:173:LEU:HD21	2:dW:219:VAL:HG13	2.04	0.40
2:dW:226:LEU:HD23	2:dW:226:LEU:C	2.46	0.40
2:dX:86:VAL:HG23	2:dX:202:GLN:HB2	2.04	0.40
2:dY:221:PHE:HD2	2:dY:224:TRP:HE1	1.69	0.40
2:dY:287:ALA:O	2:dY:288:ASP:CG	2.64	0.40
1:eb:59:VAL:HG13	1:eb:77:GLY:HA2	2.04	0.40
1:ef:100:LYS:NZ	1:nG:100:LYS:HE3	2.37	0.40
2:eh:83:THR:HG23	2:eh:203:VAL:CG1	2.52	0.40
2:ek:226:LEU:HD23	2:ek:226:LEU:C	2.46	0.40
2:el:42:THR:HG22	2:el:43:ALA:N	2.36	0.40
2:em:185:GLN:O	2:em:205:MET:N	2.43	0.40
2:em:221:PHE:HD2	2:em:224:TRP:HE1	1.69	0.40
2:em:303:LEU:HD23	2:em:303:LEU:H	1.87	0.40
1:ep:91:GLU:HB2	2:ph:4:ILE:HG21	2.03	0.40
2:ev:224:TRP:CZ3	2:ev:226:LEU:HD13	2.56	0.40
2:ew:72:GLY:H	2:og:8:LEU:HD11	1.86	0.40
2:ew:224:TRP:CE2	2:ew:242:VAL:HG21	2.56	0.40
2:ex:276:GLU:OE2	2:ex:280:VAL:HG21	2.21	0.40
2:ey:143:VAL:HG13	2:ey:144:TYR:N	2.36	0.40
2:eA:69:ALA:HA	2:gC:4:ILE:HG22	2.04	0.40
2:eA:303:LEU:HD23	2:eA:303:LEU:H	1.87	0.40
1:eD:60:ARG:NE	1:ff:99:LEU:HD22	2.12	0.40
1:eD:91:GLU:HB2	2:fm:4:ILE:HG21	2.03	0.40
1:eG:63:VAL:HG13	1:eG:74:ASP:HB2	2.03	0.40
2:eI:84:VAL:HG11	2:eN:68:MET:HE3	2.04	0.40
2:eJ:106:MET:C	2:eJ:106:MET:SD	3.05	0.40
2:eK:61:GLY:HA2	1:gk:103:ARG:NE	2.35	0.40
2:eK:72:GLY:H	2:gV:8:LEU:HD11	1.86	0.40
2:eK:100:GLY:N	2:eK:101:PRO:CD	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:eM:20:PHE:N	2:eM:20:PHE:CD1	2.87	0.40
2:eM:163:ALA:O	2:eM:264:LEU:HD12	2.21	0.40
2:eN:163:ALA:HB3	2:eN:265:VAL:CG1	2.52	0.40
2:eO:239:PHE:CZ	2:eO:294:LEU:HD22	2.56	0.40
1:eU:98:LEU:O	1:eU:99:LEU:C	2.65	0.40
1:eV:62:THR:HG21	1:eV:97:PRO:HB3	2.03	0.40
2:eW:100:GLY:O	2:eW:103:MET:HG2	2.22	0.40
2:eX:40:SER:HB3	2:eX:179:LEU:HD13	2.03	0.40
2:fa:257:LEU:HB3	2:fa:259:ILE:HD11	2.04	0.40
2:fa:277:VAL:HG12	2:fa:278:VAL:HG13	2.03	0.40
2:fb:163:ALA:HB3	2:fb:265:VAL:CG1	2.52	0.40
2:fc:182:LEU:O	2:fc:182:LEU:CD1	2.67	0.40
2:fc:287:ALA:O	2:fc:288:ASP:CG	2.64	0.40
1:fe:65:ARG:HE	1:fe:96:ASP:HB2	1.86	0.40
1:fi:97:PRO:HD2	2:fm:65:ILE:O	2.22	0.40
1:fj:62:THR:HG21	1:fj:97:PRO:HB3	2.02	0.40
2:fm:243:TYR:CE1	2:fm:294:LEU:HD12	2.57	0.40
2:fn:79:LEU:HD13	2:fq:60:ILE:H	1.87	0.40
2:fn:148:ASP:OD1	2:fn:149:GLY:N	2.53	0.40
2:fn:264:LEU:O	2:fn:297:VAL:HG23	2.21	0.40
2:fq:246:MET:HB3	2:fq:259:ILE:HG21	2.04	0.40
1:ft:96:ASP:HB2	2:fB:64:VAL:HA	2.04	0.40
1:fw:98:LEU:O	1:fw:99:LEU:C	2.65	0.40
1:fx:62:THR:HG21	1:fx:97:PRO:HB3	2.03	0.40
2:fy:189:LYS:O	2:fy:191:SER:N	2.55	0.40
2:fz:106:MET:SD	2:fz:106:MET:C	3.05	0.40
2:fA:16:PHE:CD1	2:of:12:LEU:HD21	2.57	0.40
2:fB:234:LEU:HG	2:fB:239:PHE:HB2	2.02	0.40
2:fD:262:ASN:HA	2:fD:295:VAL:HG22	2.04	0.40
1:fF:100:LYS:HE3	1:mg:100:LYS:NZ	2.37	0.40
1:fI:86:SER:O	1:fI:90:LEU:N	2.50	0.40
2:fN:121:LEU:HD22	2:fN:212:GLY:C	2.47	0.40
2:fO:4:ILE:HG21	1:gZ:91:GLU:HB2	2.03	0.40
2:fO:43:ALA:HB3	2:fR:13:LYS:HB3	2.03	0.40
2:fO:61:GLY:HA2	1:IP:103:ARG:NE	2.35	0.40
2:fP:62:GLN:HG2	1:gZ:103:ARG:H	1.85	0.40
2:fR:42:THR:HG22	2:fR:43:ALA:N	2.36	0.40
1:fU:90:LEU:HB3	2:ml:4:ILE:HG23	2.02	0.40
1:fV:59:VAL:HG13	1:fV:77:GLY:HA2	2.04	0.40
1:fW:103:ARG:NE	2:ii:61:GLY:HA2	2.35	0.40
1:fY:97:PRO:HD2	2:gc:65:ILE:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:gb:106:MET:SD	2:gb:106:MET:C	3.05	0.40
2:gb:268:THR:HG23	2:ih:247:ARG:HD2	2.03	0.40
2:gg:232:GLU:HB3	2:gg:236:GLN:HG2	2.03	0.40
2:gp:42:THR:HG22	2:gp:43:ALA:H	1.85	0.40
2:gr:30:THR:HG22	2:gr:30:THR:O	2.22	0.40
2:gs:12:LEU:HD21	2:gS:16:PHE:CD1	2.57	0.40
2:gu:226:LEU:HD21	2:gu:273:LYS:HB3	2.03	0.40
1:gv:59:VAL:HG12	1:gv:61:ALA:N	2.28	0.40
1:gx:58:PHE:HB3	1:gx:101:VAL:HG21	2.03	0.40
2:gC:98:VAL:O	2:gC:99:TYR:HB3	2.21	0.40
2:gE:70:ALA:CB	2:pk:9:ILE:HD11	2.51	0.40
2:gG:226:LEU:HD23	2:gG:226:LEU:C	2.47	0.40
2:gH:196:THR:O	2:gH:196:THR:HG22	2.21	0.40
1:gK:60:ARG:O	1:gK:61:ALA:HB3	2.21	0.40
1:gP:62:THR:HG21	1:gP:97:PRO:HB3	2.03	0.40
1:gP:100:LYS:NZ	1:in:100:LYS:HE3	2.37	0.40
2:gR:106:MET:C	2:gR:106:MET:SD	3.05	0.40
2:gS:61:GLY:HA2	1:ic:103:ARG:NE	2.35	0.40
2:gU:226:LEU:HD23	2:gU:226:LEU:C	2.47	0.40
2:gV:9:ILE:O	2:gV:9:ILE:HG22	2.22	0.40
2:gV:267:PRO:HD2	2:gV:270:LEU:HD12	2.04	0.40
1:gX:59:VAL:HG12	1:gX:61:ALA:N	2.28	0.40
1:gZ:58:PHE:HB3	1:gZ:101:VAL:HG21	2.02	0.40
1:hd:96:ASP:HB3	1:hd:97:PRO:CD	2.51	0.40
2:he:4:ILE:HD11	1:lB:90:LEU:O	2.21	0.40
2:hF:40:SER:HB3	2:hF:179:LEU:HD13	2.03	0.40
2:hG:61:GLY:HA2	1:lB:103:ARG:NE	2.35	0.40
2:hi:62:GLN:NE2	2:oI:197:LYS:NZ	2.68	0.40
2:hi:238:ASN:O	2:hi:242:VAL:HG23	2.22	0.40
2:hj:187:ARG:NH2	2:lI:196:THR:HG23	2.36	0.40
2:hk:150:THR:C	2:hk:221:PHE:CD1	2.99	0.40
2:hk:232:GLU:HB3	2:hk:236:GLN:HG2	2.03	0.40
1:ho:98:LEU:O	1:kJ:102:GLU:OE1	2.39	0.40
1:hr:62:THR:HG21	1:hr:97:PRO:HB3	2.03	0.40
2:hs:100:GLY:O	2:hs:103:MET:HG2	2.22	0.40
2:hs:141:HIS:N	2:hs:148:ASP:O	2.54	0.40
2:ht:224:TRP:CE2	2:ht:242:VAL:HG21	2.56	0.40
2:ht:235:ASN:HD21	2:ht:290:PRO:HD2	1.86	0.40
2:hv:161:ALA:N	2:hv:162:PRO:CD	2.84	0.40
2:hv:173:LEU:HD21	2:hv:219:VAL:HG13	2.04	0.40
2:hw:86:VAL:HG23	2:hw:202:GLN:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hA:91:GLU:HB2	2:IV:4:ILE:HG21	2.03	0.40
1:hD:87:ASP:HB3	2:kU:5:THR:HG22	2.02	0.40
2:hF:84:VAL:HG11	2:hJ:68:MET:HE3	2.04	0.40
2:hF:100:GLY:O	2:hF:103:MET:HG2	2.22	0.40
2:hF:189:LYS:O	2:hF:191:SER:N	2.55	0.40
2:hG:255:ARG:HG3	2:hJ:116:GLU:OE1	2.21	0.40
2:hH:187:ARG:HB2	2:hH:203:VAL:HG12	2.04	0.40
2:hI:173:LEU:HD21	2:hI:219:VAL:HG13	2.04	0.40
2:hK:183:ILE:HG21	5:qt:176:ASN:HD22	1.87	0.40
2:hS:225:GLN:O	2:hS:226:LEU:C	2.64	0.40
2:hW:287:ALA:O	2:hW:288:ASP:CG	2.64	0.40
2:hY:232:GLU:O	2:hY:234:LEU:N	2.55	0.40
2:ig:141:HIS:N	2:ig:148:ASP:O	2.54	0.40
2:ih:40:SER:HB3	2:ih:179:LEU:HD13	2.03	0.40
2:ii:59:TRP:NE1	2:ii:63:ARG:HG3	2.35	0.40
2:ii:255:ARG:HG3	2:il:116:GLU:OE1	2.22	0.40
2:im:150:THR:C	2:im:221:PHE:CD1	2.99	0.40
1:ip:58:PHE:HB3	1:ip:101:VAL:HG21	2.03	0.40
1:iq:62:THR:HG22	1:iq:63:VAL:N	2.36	0.40
2:ix:171:TYR:CE1	2:ix:175:THR:HG21	2.56	0.40
2:iJ:224:TRP:CZ3	2:iJ:226:LEU:HD13	2.56	0.40
2:iK:43:ALA:HB3	2:iN:13:LYS:HB3	2.03	0.40
2:iL:264:LEU:O	2:iL:297:VAL:HG23	2.21	0.40
1:iS:90:LEU:O	2:jk:4:ILE:HD11	2.21	0.40
2:iW:189:LYS:O	2:iW:191:SER:N	2.55	0.40
2:iZ:264:LEU:O	2:iZ:297:VAL:HG23	2.21	0.40
2:ja:277:VAL:HG12	2:ja:278:VAL:HG13	2.03	0.40
2:ja:280:VAL:O	2:ja:289:ASN:ND2	2.54	0.40
2:jc:239:PHE:CZ	2:jc:294:LEU:HD22	2.56	0.40
2:jc:274:ALA:CB	2:jc:297:VAL:HG21	2.52	0.40
2:jk:219:VAL:O	2:jk:219:VAL:HG22	2.21	0.40
2:jl:86:VAL:O	2:jl:201:GLU:O	2.39	0.40
2:jo:224:TRP:CE3	2:jo:226:LEU:HD12	2.57	0.40
2:jq:239:PHE:CZ	2:jq:294:LEU:HD22	2.56	0.40
2:jq:246:MET:HB3	2:jq:259:ILE:HG21	2.04	0.40
2:jq:294:LEU:HD23	2:jq:294:LEU:C	2.47	0.40
1:js:82:ASP:OD1	1:js:83:GLY:N	2.51	0.40
1:js:99:LEU:HD11	1:ID:102:GLU:CG	2.42	0.40
1:jt:91:GLU:HB2	2:kc:4:ILE:HG21	2.03	0.40
2:jz:268:THR:HG23	2:pW:247:ARG:HD2	2.03	0.40
2:jE:239:PHE:CZ	2:jE:294:LEU:HD22	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:jE:249:GLN:HB3	2:jE:257:LEU:HD12	2.03	0.40
1:jL:100:LYS:NZ	1:pO:100:LYS:HE3	2.37	0.40
2:jM:100:GLY:O	2:jM:103:MET:HG2	2.22	0.40
2:jM:194:SER:O	2:jM:199:ASP:O	2.39	0.40
2:jM:225:GLN:O	2:jM:226:LEU:C	2.64	0.40
2:jN:8:LEU:N	2:jN:8:LEU:HD12	2.35	0.40
2:jO:91:ILE:HG22	2:jO:99:TYR:CG	2.57	0.40
2:jO:255:ARG:HG3	2:jR:116:GLU:OE1	2.22	0.40
2:jP:276:GLU:OE2	2:jP:280:VAL:HG21	2.21	0.40
2:jS:226:LEU:HD21	2:jS:273:LYS:HB3	2.03	0.40
2:jS:232:GLU:HB3	2:jS:236:GLN:HG2	2.03	0.40
2:jS:287:ALA:O	2:jS:288:ASP:CG	2.64	0.40
1:jV:96:ASP:HB2	2:kd:64:VAL:HA	2.04	0.40
1:jW:60:ARG:HB2	1:jW:102:GLU:N	2.37	0.40
2:ka:4:ILE:HG22	2:lx:69:ALA:HA	2.04	0.40
2:ka:98:VAL:O	2:ka:99:TYR:HB3	2.21	0.40
2:kc:13:LYS:HB3	2:ke:43:ALA:HB3	2.02	0.40
2:kc:224:TRP:CE2	2:kc:242:VAL:HG21	2.56	0.40
2:ke:12:LEU:HD21	2:mZ:16:PHE:CD1	2.57	0.40
2:ke:224:TRP:CE3	2:ke:226:LEU:HD12	2.57	0.40
2:kf:8:LEU:HD11	2:pX:72:GLY:H	1.86	0.40
2:kf:267:PRO:HD2	2:kf:270:LEU:HD12	2.04	0.40
1:kk:58:PHE:CE1	1:kk:101:VAL:HG21	2.57	0.40
1:kk:60:ARG:HB2	1:kk:102:GLU:N	2.37	0.40
1:kk:62:THR:HG22	1:kk:63:VAL:N	2.36	0.40
2:ko:100:GLY:O	2:ko:103:MET:HG2	2.22	0.40
2:kr:277:VAL:HG12	2:kr:278:VAL:HG13	2.03	0.40
2:ks:9:ILE:O	2:ks:9:ILE:HG22	2.21	0.40
2:ks:262:ASN:HA	2:ks:295:VAL:HG22	2.04	0.40
2:kt:189:LYS:CD	5:qD:34:GLN:CG	2.78	0.40
2:kt:246:MET:HB3	2:kt:259:ILE:HG21	2.04	0.40
1:kv:102:GLU:OE1	1:lP:98:LEU:O	2.39	0.40
2:kC:83:THR:HG23	2:kC:203:VAL:CG1	2.52	0.40
2:kC:224:TRP:CZ3	2:kC:226:LEU:HD13	2.56	0.40
2:kF:9:ILE:O	2:kF:9:ILE:CG2	2.68	0.40
2:kG:42:THR:HG22	2:kG:43:ALA:N	2.36	0.40
2:kG:267:PRO:HD2	2:kG:270:LEU:HD12	2.04	0.40
2:kH:303:LEU:HD23	2:kH:303:LEU:H	1.87	0.40
1:kL:60:ARG:HB2	1:kL:102:GLU:N	2.37	0.40
2:kP:59:TRP:CZ2	2:mX:199:ASP:HA	2.56	0.40
2:kQ:106:MET:C	2:kQ:106:MET:SD	3.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:kR:44:SER:O	2:kR:177:ARG:NH2	2.54	0.40
2:kU:267:PRO:HD2	2:kU:270:LEU:HD12	2.03	0.40
2:kV:69:ALA:HA	2:mX:4:ILE:HG22	2.04	0.40
1:kZ:58:PHE:CE1	1:kZ:101:VAL:HG21	2.57	0.40
1:lc:96:ASP:HB3	1:lc:97:PRO:CD	2.51	0.40
1:lc:100:LYS:NZ	1:mQ:100:LYS:HE3	2.37	0.40
2:ld:98:VAL:O	2:ld:99:TYR:HB3	2.21	0.40
2:ld:197:LYS:O	2:ld:198:GLU:CG	2.69	0.40
2:lh:173:LEU:HD21	2:lh:219:VAL:HG13	2.04	0.40
2:lh:224:TRP:CE3	2:lh:226:LEU:HD12	2.57	0.40
2:lh:226:LEU:HD23	2:lh:226:LEU:C	2.47	0.40
2:li:42:THR:O	2:li:179:LEU:HD11	2.21	0.40
2:lj:274:ALA:CB	2:lj:297:VAL:HG21	2.52	0.40
2:lr:18:LYS:HD3	2:lr:18:LYS:HA	1.95	0.40
2:lr:219:VAL:O	2:lr:219:VAL:HG22	2.21	0.40
2:ls:83:THR:HG23	2:ls:203:VAL:CG1	2.52	0.40
2:ls:86:VAL:O	2:ls:201:GLU:O	2.40	0.40
2:lt:91:ILE:HG22	2:lt:99:TYR:CG	2.57	0.40
2:lv:143:VAL:HG13	2:lv:144:TYR:N	2.36	0.40
1:lA:102:GLU:CD	1:oy:99:LEU:CA	2.87	0.40
1:lD:97:PRO:HD2	2:lH:65:ILE:O	2.22	0.40
2:lF:13:LYS:NZ	2:na:93:ASP:O	2.54	0.40
2:lF:18:LYS:HD3	2:lF:18:LYS:HA	1.95	0.40
2:lF:187:ARG:HD3	2:lF:194:SER:OG	2.21	0.40
2:lF:189:LYS:O	2:lF:191:SER:N	2.55	0.40
2:lG:247:ARG:HD2	2:mY:268:THR:HG23	2.03	0.40
2:lI:187:ARG:HB2	2:lI:203:VAL:HG12	2.03	0.40
2:lJ:224:TRP:CE3	2:lJ:226:LEU:HD12	2.57	0.40
2:lK:163:ALA:HB3	2:lK:265:VAL:CG1	2.52	0.40
2:lK:262:ASN:HA	2:lK:295:VAL:HG22	2.04	0.40
2:lL:246:MET:HB3	2:lL:259:ILE:HG21	2.04	0.40
2:lL:294:LEU:HD23	2:lL:294:LEU:C	2.47	0.40
2:lT:100:GLY:O	2:lT:103:MET:HG2	2.22	0.40
2:lW:171:TYR:CE1	2:lW:175:THR:HG21	2.56	0.40
2:lW:264:LEU:O	2:lW:297:VAL:HG23	2.21	0.40
2:lW:276:GLU:OE2	2:lW:280:VAL:HG21	2.21	0.40
2:lX:173:LEU:HD21	2:lX:219:VAL:HG13	2.04	0.40
1:mc:99:LEU:HD23	1:nu:102:GLU:HB3	1.96	0.40
2:mh:18:LYS:HA	2:mh:18:LYS:HD3	1.95	0.40
2:ml:187:ARG:O	2:ml:187:ARG:CG	2.68	0.40
2:mm:42:THR:HG22	2:mm:43:ALA:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:mn:69:ALA:HA	2:mv:4:ILE:HG22	2.04	0.40
2:mn:106:MET:HE3	2:mn:206:ALA:HB3	2.02	0.40
1:mo:58:PHE:HB3	1:mo:101:VAL:HG13	2.02	0.40
2:mw:20:PHE:N	2:oe:171:TYR:CZ	2.89	0.40
2:mx:224:TRP:CE2	2:mx:242:VAL:HG21	2.56	0.40
2:mA:179:LEU:HD22	2:mA:209:TYR:HD2	1.86	0.40
2:mB:226:LEU:HA	2:mB:238:ASN:ND2	2.35	0.40
2:mB:287:ALA:O	2:mB:288:ASP:CG	2.64	0.40
2:mJ:4:ILE:HD11	1:ol:90:LEU:O	2.21	0.40
2:mO:9:ILE:HD11	2:ot:70:ALA:CB	2.51	0.40
2:mO:187:ARG:NH2	2:os:196:THR:HG23	2.36	0.40
2:nb:163:ALA:O	2:nb:264:LEU:HD12	2.21	0.40
2:nd:226:LEU:HD21	2:nd:273:LYS:HB3	2.03	0.40
2:nd:274:ALA:CB	2:nd:297:VAL:HG21	2.51	0.40
2:nl:4:ILE:HD11	1:oz:90:LEU:O	2.21	0.40
2:nl:4:ILE:HG22	2:oJ:69:ALA:HA	2.04	0.40
2:nq:9:ILE:HG22	2:nq:9:ILE:O	2.22	0.40
2:nq:179:LEU:HD22	2:nq:209:TYR:HD2	1.86	0.40
2:nq:236:GLN:HA	2:nq:240:GLU:HB3	2.03	0.40
2:nr:232:GLU:HB3	2:nr:236:GLN:HG2	2.03	0.40
2:nr:294:LEU:HD23	2:nr:294:LEU:C	2.47	0.40
2:nA:106:MET:SD	2:nA:106:MET:C	3.05	0.40
2:nB:100:GLY:N	2:nB:101:PRO:CD	2.84	0.40
2:nC:117:LEU:HD21	2:nC:211:TYR:HA	2.04	0.40
2:nC:221:PHE:CG	2:nC:242:VAL:HG13	2.56	0.40
2:nF:228:ALA:HB3	2:nF:273:LYS:HE3	2.02	0.40
2:nF:232:GLU:O	2:nF:234:LEU:N	2.55	0.40
1:nJ:62:THR:HG22	1:nJ:63:VAL:N	2.36	0.40
1:nJ:103:ARG:NH1	2:od:61:GLY:CA	2.70	0.40
1:nL:97:PRO:HD2	2:nP:65:ILE:O	2.22	0.40
2:nO:82:SER:HB2	2:nO:206:ALA:H	1.85	0.40
2:nO:121:LEU:HD22	2:nO:212:GLY:C	2.47	0.40
2:nP:43:ALA:HB3	2:nS:13:LYS:HB3	2.03	0.40
2:nQ:221:PHE:CG	2:nQ:242:VAL:HG13	2.56	0.40
2:nR:277:VAL:HG12	2:nR:278:VAL:HG13	2.03	0.40
2:nS:86:VAL:HG23	2:nS:202:GLN:HB2	2.04	0.40
2:nT:243:TYR:CD1	2:nT:294:LEU:HD21	2.56	0.40
2:ob:189:LYS:O	2:ob:191:SER:N	2.55	0.40
2:oc:235:ASN:HD22	2:oc:283:LEU:HD13	1.87	0.40
2:od:243:TYR:CE1	2:od:294:LEU:HD12	2.57	0.40
2:od:255:ARG:HG3	2:og:116:GLU:OE1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:oi:59:VAL:HG12	1:oi:61:ALA:N	2.28	0.40
2:op:225:GLN:O	2:op:226:LEU:C	2.64	0.40
2:oq:106:MET:SD	2:oq:106:MET:C	3.05	0.40
2:oq:219:VAL:O	2:oq:219:VAL:CG1	2.66	0.40
2:oq:247:ARG:HD2	2:pW:268:THR:HG23	2.03	0.40
2:or:43:ALA:HB3	2:ou:13:LYS:HB3	2.03	0.40
2:os:30:THR:O	2:os:30:THR:HG22	2.22	0.40
2:os:276:GLU:OE2	2:os:280:VAL:HG21	2.21	0.40
2:ot:143:VAL:HG13	2:ot:144:TYR:N	2.36	0.40
2:ov:226:LEU:HD21	2:ov:273:LYS:HB3	2.02	0.40
2:ov:226:LEU:HA	2:ov:238:ASN:ND2	2.35	0.40
2:ov:273:LYS:HA	2:ov:273:LYS:HD2	1.93	0.40
2:oF:59:TRP:NE1	2:oF:63:ARG:HG3	2.35	0.40
2:oF:255:ARG:HG3	2:oI:116:GLU:OE1	2.21	0.40
2:oH:163:ALA:O	2:oH:264:LEU:HD12	2.21	0.40
2:oI:9:ILE:HG22	2:oI:9:ILE:O	2.22	0.40
2:oS:40:SER:HB3	2:oS:179:LEU:HD13	2.03	0.40
2:oS:82:SER:HB2	2:oS:206:ALA:H	1.85	0.40
2:oS:83:THR:HG23	2:oS:203:VAL:CG1	2.52	0.40
2:oS:86:VAL:O	2:oS:201:GLU:O	2.40	0.40
2:oS:106:MET:C	2:oS:106:MET:SD	3.05	0.40
2:oU:187:ARG:HB2	2:oU:203:VAL:HG12	2.04	0.40
2:oV:280:VAL:O	2:oV:289:ASN:ND2	2.54	0.40
2:oX:227:ALA:HB1	2:oX:229:MET:SD	2.61	0.40
2:oX:303:LEU:H	2:oX:303:LEU:HD23	1.87	0.40
2:pf:167:GLY:N	2:pf:262:ASN:OD1	2.54	0.40
2:ph:224:TRP:CE2	2:ph:242:VAL:HG21	2.56	0.40
2:pi:171:TYR:CE1	2:pi:175:THR:HG21	2.56	0.40
2:pj:226:LEU:HD23	2:pj:226:LEU:C	2.46	0.40
2:pk:233:GLU:OE1	2:pk:234:LEU:HD22	2.20	0.40
2:pl:227:ALA:HB1	2:pl:229:MET:SD	2.61	0.40
2:pl:239:PHE:CZ	2:pl:294:LEU:HD22	2.56	0.40
2:pt:59:TRP:CZ2	2:pH:199:ASP:HA	2.56	0.40
2:pw:228:ALA:HB1	2:pw:283:LEU:HD11	2.04	0.40
2:px:277:VAL:HG12	2:px:278:VAL:HG13	2.03	0.40
2:pz:69:ALA:HA	2:pH:4:ILE:HG22	2.04	0.40
1:pA:59:VAL:HG12	1:pA:61:ALA:N	2.28	0.40
1:pD:58:PHE:CE1	1:pD:101:VAL:HG21	2.57	0.40
2:pI:141:HIS:CE1	2:pI:150:THR:HG1	2.37	0.40
2:pJ:44:SER:O	2:pJ:177:ARG:NH2	2.54	0.40
2:pK:171:TYR:CE1	2:pK:175:THR:HG21	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:pL:182:LEU:HG	2:pL:182:LEU:O	2.21	0.40
2:pN:232:GLU:O	2:pN:234:LEU:N	2.55	0.40
2:pN:287:ALA:O	2:pN:288:ASP:CG	2.64	0.40
1:pO:59:VAL:HG12	1:pO:61:ALA:N	2.28	0.40
1:pR:58:PHE:CE1	1:pR:101:VAL:HG21	2.57	0.40
1:pR:86:SER:O	1:pR:90:LEU:N	2.50	0.40
1:pS:82:ASP:OD1	1:pS:83:GLY:N	2.52	0.40
2:pV:197:LYS:O	2:pV:198:GLU:CG	2.69	0.40
2:pY:221:PHE:CG	2:pY:242:VAL:HG13	2.56	0.40
2:pZ:226:LEU:HD23	2:pZ:226:LEU:C	2.47	0.40
2:qb:232:GLU:HB3	2:qb:236:GLN:HG2	2.03	0.40
2:qb:246:MET:HB3	2:qb:259:ILE:HG21	2.04	0.40
4:qk:212:PRO:HG2	4:ql:41:VAL:CG2	2.51	0.40
4:ql:100:VAL:O	4:ql:100:VAL:HG13	2.22	0.40
4:qn:64:LYS:HD2	4:qo:53:GLN:HB3	2.04	0.40
5:qr:85:ILE:HD13	5:qr:331:LEU:HD12	2.02	0.40
5:qr:112:LEU:HD21	5:qr:350:LEU:HD22	2.04	0.40
5:qr:393:GLU:O	5:qt:408:PRO:HG3	2.20	0.40
6:qu:17:LYS:HD2	6:qw:81:ILE:HG21	2.03	0.40
6:qu:112:LEU:HD23	6:qw:58:LEU:HD13	0.46	0.40
5:qv:42:PRO:CD	6:qA:133:ASP:CG	2.93	0.40
5:qx:112:LEU:HD21	5:qx:350:LEU:HD22	2.04	0.40
5:qB:252:LEU:HD23	6:qE:126:GLN:HG3	2.00	0.40
6:qC:17:LYS:HD2	6:qE:81:ILE:HG21	2.03	0.40
5:qD:252:LEU:HD23	6:qG:126:GLN:HG3	2.00	0.40
5:qD:393:GLU:O	5:qF:408:PRO:HG3	2.20	0.40
5:qF:234:ILE:HA	5:qH:262:ALA:O	2.21	0.40
5:qH:35:HIS:HA	5:qH:66:ASP:OD2	2.21	0.40
5:qH:258:LEU:O	5:qH:261:ALA:O	2.39	0.40
5:qJ:35:HIS:HA	5:qJ:66:ASP:OD2	2.21	0.40
5:qL:35:HIS:HA	5:qL:66:ASP:OD2	2.21	0.40
5:qL:348:TRP:HB3	5:qL:349:PRO:HD3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM

entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	aA	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	aB	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	aC	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	aD	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	aE	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	aF	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	aG	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	aO	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	aP	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	aQ	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	aR	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	aS	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	aT	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	aU	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	aa	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ab	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	ac	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ad	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	ae	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	af	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	an	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	ao	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ap	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	aq	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ar	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	as	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	at	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	bE	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	bF	54/113 (48%)	47 (87%)	7 (13%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	bG	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	bH	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	bI	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	bJ	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	bK	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	bR	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	bS	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	bT	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	bU	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	bV	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	bW	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	bX	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	bc	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	bd	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	be	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	bf	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	bg	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	bh	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	bi	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	bq	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	br	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	bs	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	bt	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	bu	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	bv	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	bw	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	cH	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	cI	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	cJ	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	cK	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	cL	54/113 (48%)	48 (89%)	6 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	cM	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	cN	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	cV	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	cW	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	cX	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	cY	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	cZ	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	cf	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	cg	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ch	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	ci	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	cj	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	ck	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	cl	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ct	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	cu	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	cv	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	cw	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	cx	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	cy	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	cz	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	dA	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	dB	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	dC	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	dD	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	dL	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	dM	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	dN	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	dO	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	dP	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	dQ	54/113 (48%)	43 (80%)	11 (20%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	dR	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	dZ	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	da	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	db	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	dj	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	dk	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	dl	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	dm	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	dn	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	do	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	dp	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	dx	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	dy	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	dz	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	eB	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	eC	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	eD	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	eE	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	eF	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	eG	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	eH	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	eP	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	eQ	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	eR	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	eS	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	eT	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	eU	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	eV	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ea	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	eb	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	ec	54/113 (48%)	46 (85%)	8 (15%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	ed	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ee	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	ef	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	en	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	eo	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ep	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	eq	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	er	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	es	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	et	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	fF	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	fG	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	fH	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	fI	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	fJ	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	fK	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	fL	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	fT	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	fU	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	fV	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	fW	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	fX	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	fY	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	fZ	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	fd	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	fe	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ff	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	fg	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	fh	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	fi	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	fj	54/113 (48%)	46 (85%)	8 (15%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	fr	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	fs	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ft	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	fu	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	fv	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	fw	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	fx	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	gA	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	gB	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	gJ	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	gK	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	gL	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	gM	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	gN	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	gO	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	gP	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	gX	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	gY	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	gZ	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	gh	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	gi	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	gj	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	gk	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	gl	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	gm	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	gn	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	gv	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	gw	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	gx	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	gy	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	gz	54/113 (48%)	48 (89%)	6 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	hA	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	hB	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	hC	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	hD	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	hE	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	hL	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	hM	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	hN	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	hO	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	hP	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	hQ	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	hR	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	hZ	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	ha	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	hb	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	hc	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	hd	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	hl	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	hm	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	hn	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	ho	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	hp	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	hq	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	hr	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	hy	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	hz	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	iB	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	iC	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	iD	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	iE	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	iF	54/113 (48%)	48 (89%)	6 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	iG	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	iH	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	iP	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	iQ	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	iR	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	iS	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	iT	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	iU	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	iV	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ia	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ib	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	ic	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	id	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	ie	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	if	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	in	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	io	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ip	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	iq	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ir	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	is	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	it	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	jF	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	jG	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	jH	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	jI	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	jJ	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	jK	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	jL	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	jT	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	jU	54/113 (48%)	47 (87%)	7 (13%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	jV	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	jW	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	jX	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	jY	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	jZ	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	jd	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	je	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	jf	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	yg	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	jh	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	ji	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	jj	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	jr	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	js	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	jt	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	ju	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	jv	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	jw	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	jx	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	kA	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	kI	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	kJ	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	kK	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	kL	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	kM	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	kN	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	kO	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	kW	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	kX	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	kY	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	kZ	54/113 (48%)	46 (85%)	8 (15%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	kh	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	ki	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	kj	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	kk	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	kl	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	km	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	kn	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ku	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	54/113 (48%)	47 (87%)	7 (13%)	0	100	100	
1	kw	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	kx	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ky	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	kz	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	lA	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	lB	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	lC	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	lD	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	lE	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	lM	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	lN	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	lO	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	lP	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	lQ	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	lR	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	lS	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	la	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	lb	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	lc	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	lk	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	ll	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	lm	54/113 (48%)	45 (83%)	9 (17%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	ln	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	lo	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	lp	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	lq	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ly	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	lz	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	mC	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	mD	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	mE	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	mF	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	mG	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	mH	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	mI	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	mQ	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	mR	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	mS	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	mT	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	mU	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	mV	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	mW	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ma	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	mb	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	mc	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	md	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	me	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	mf	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	mg	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	mo	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	mp	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	mq	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	mr	54/113 (48%)	46 (85%)	8 (15%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	ms	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	mt	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	mu	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	nG	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	nH	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	nI	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	nJ	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	nK	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	nL	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	nM	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	nU	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	nV	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	nW	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	nX	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	nY	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	nZ	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	ne	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	nf	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ng	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	nh	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ni	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	nj	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	nk	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ns	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	nt	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	nu	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	nv	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	nw	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	nx	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	ny	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	oA	54/113 (48%)	48 (89%)	6 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	oB	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	oC	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	oK	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	oL	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	oM	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	oN	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	oO	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	oP	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	oQ	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	oY	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	oZ	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	oa	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	oi	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	oj	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	ok	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	ol	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	om	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	on	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	oo	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	ow	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	ox	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	oy	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	oz	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	pA	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	pB	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	pC	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	pD	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	pE	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	pF	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	pG	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	pO	54/113 (48%)	44 (82%)	10 (18%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	pP	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	pQ	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	pR	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	pS	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	pT	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	pU	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	pa	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	pb	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	pc	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	pd	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	pe	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	pm	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
1	pn	54/113 (48%)	47 (87%)	7 (13%)	0	100	100
1	po	54/113 (48%)	45 (83%)	9 (17%)	0	100	100
1	pp	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	pq	54/113 (48%)	48 (89%)	6 (11%)	0	100	100
1	pr	54/113 (48%)	43 (80%)	11 (20%)	0	100	100
1	ps	54/113 (48%)	46 (85%)	8 (15%)	0	100	100
1	qc	54/113 (48%)	44 (82%)	10 (18%)	0	100	100
2	aH	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	aI	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	aJ	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	aK	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	aL	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	aM	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	aN	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	aV	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	aW	293/304 (96%)	261 (89%)	32 (11%)	0	100	100
2	aX	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	aY	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	aZ	291/304 (96%)	269 (92%)	22 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	ag	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	ah	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	ai	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	aj	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ak	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	al	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	am	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	au	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	av	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	aw	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	ax	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	ay	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	az	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	bA	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	bB	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	bC	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	bD	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	bL	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	bM	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	bN	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	bO	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	bP	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	bQ	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	bY	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	bZ	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	ba	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	bb	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	bj	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	bk	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	bl	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	bm	291/304 (96%)	264 (91%)	27 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	bn	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	bo	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	bp	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	bx	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	by	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	bz	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	cA	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	cB	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	cC	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	cD	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	cE	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	cF	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	cG	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	cO	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	cP	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	cQ	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	cR	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	cS	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	cT	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	cU	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	ca	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	cb	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	cc	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	cd	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	ce	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	cm	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	cn	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	co	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	cp	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	cq	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	cr	291/304 (96%)	261 (90%)	30 (10%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	cs	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	dE	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	dF	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	dG	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	dH	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	dI	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	dJ	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	dK	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	dS	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	dT	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	dU	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	dV	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	dW	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	dX	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	dY	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	dc	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	dd	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	de	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	df	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	dg	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	dh	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	di	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	dq	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	dr	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	ds	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	dt	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	du	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	dv	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	dw	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	eA	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	eI	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	eJ	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	eK	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	eL	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	eM	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	eN	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	eO	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	eW	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	eX	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	eY	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	eZ	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	eg	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	eh	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	ei	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ej	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ek	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	el	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	em	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	eu	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	ev	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	ew	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ex	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ey	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	ez	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	fA	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	fB	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	fC	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	fD	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	fE	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	fM	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	fN	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	fO	291/304 (96%)	264 (91%)	27 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	fP	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	fQ	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	fR	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	fS	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	fa	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	fb	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	fc	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	fk	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	fl	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	fm	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	fn	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	fo	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	fp	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	fq	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	fy	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	fz	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	gC	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	gD	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	gE	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	gF	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	gG	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	gH	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	gI	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	gQ	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	gR	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	gS	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	gT	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	gU	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	gV	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	gW	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	ga	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	gb	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	gc	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	gd	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ge	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	gf	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	gg	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	go	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	gp	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	gq	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	gr	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	gs	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	gt	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	gu	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	hF	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	hG	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	hH	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	hI	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	hJ	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	hK	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	hS	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	hT	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	hU	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	hV	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	hW	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	hX	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	hY	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	he	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	hf	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	hg	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	hh	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	hi	291/304 (96%)	270 (93%)	21 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	hj	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	hk	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	hs	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	ht	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	hu	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	hv	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	hw	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	hx	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	iA	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	iI	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	iJ	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	iK	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	iL	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	iM	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	iN	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	iO	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	iW	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	iX	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	iY	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	iZ	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ig	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	ih	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	ii	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ij	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ik	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	il	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	im	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	iu	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	iv	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	iw	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ix	291/304 (96%)	265 (91%)	26 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	iy	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	iz	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	jA	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	jB	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	jC	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	jD	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	jE	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	jM	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	jN	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	jO	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	jP	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	jQ	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	jR	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	jS	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	ja	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	jb	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	jc	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	jk	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	jl	293/304 (96%)	259 (88%)	34 (12%)	0	100	100
2	jm	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	jn	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	jo	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	jp	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	jq	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	jy	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	jz	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	kB	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	kC	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	kD	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	kE	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	kF	291/304 (96%)	269 (92%)	22 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	kG	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	kH	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	kP	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	kQ	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	kR	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	kS	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	kT	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	kU	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	kV	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	ka	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	kb	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	kc	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	kd	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ke	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	kf	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	kg	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	ko	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	kp	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	kq	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	kr	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	ks	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	kt	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	lF	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	lG	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	lH	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	lI	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	lJ	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	lK	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	lL	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	lT	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	lU	293/304 (96%)	260 (89%)	33 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	IV	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	IW	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	IX	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	IY	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	IZ	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	Id	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	Ie	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	If	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	Ig	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	Ih	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	Ii	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	Ij	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	Ir	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	Is	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	It	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	Iu	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	Iv	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	Iw	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	Ix	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	mA	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	mB	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	mJ	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	mK	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	mL	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	mM	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	mN	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	mO	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	mP	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	mX	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	mY	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	mZ	291/304 (96%)	264 (91%)	27 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	mh	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	mi	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	mj	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	mk	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	ml	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	mm	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	mn	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	mv	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	mw	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	mx	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	my	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	mz	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	nA	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	nB	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	nC	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	nD	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	nE	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	nF	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	nN	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	nO	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	nP	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	nQ	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	nR	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	nS	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	nT	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	na	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	nb	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	nc	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	nd	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	nl	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	nm	293/304 (96%)	260 (89%)	33 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	nn	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	no	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	np	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	nq	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	nr	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	nz	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	oD	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	oE	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	oF	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	oG	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	oH	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	oI	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	oJ	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	oR	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	oS	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	oT	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	oU	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	oV	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	oW	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	oX	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	ob	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	oc	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	od	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	oe	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	of	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	og	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	oh	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	op	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	oq	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	or	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	os	291/304 (96%)	265 (91%)	26 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	ot	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	ou	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	ov	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	pH	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	pI	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	pJ	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	pK	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	pL	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	pM	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	pN	291/304 (96%)	267 (92%)	24 (8%)	0	100	100
2	pV	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	pW	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	pX	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	pY	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	pZ	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	pf	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	pg	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	ph	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	pi	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	pj	291/304 (96%)	269 (92%)	22 (8%)	0	100	100
2	pk	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	pl	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	pt	291/304 (96%)	260 (89%)	30 (10%)	1 (0%)	36	72
2	pu	293/304 (96%)	260 (89%)	33 (11%)	0	100	100
2	pV	291/304 (96%)	264 (91%)	27 (9%)	0	100	100
2	pW	291/304 (96%)	265 (91%)	26 (9%)	0	100	100
2	pX	291/304 (96%)	270 (93%)	21 (7%)	0	100	100
2	pY	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	pZ	291/304 (96%)	268 (92%)	23 (8%)	0	100	100
2	qa	291/304 (96%)	261 (90%)	30 (10%)	0	100	100
2	qb	291/304 (96%)	268 (92%)	23 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	qd	132/157 (84%)	115 (87%)	17 (13%)	0	100	100
3	qe	132/157 (84%)	115 (87%)	17 (13%)	0	100	100
3	qf	132/157 (84%)	115 (87%)	17 (13%)	0	100	100
3	qg	132/157 (84%)	115 (87%)	17 (13%)	0	100	100
3	qh	132/157 (84%)	115 (87%)	17 (13%)	0	100	100
3	qi	132/157 (84%)	115 (87%)	17 (13%)	0	100	100
4	qj	250/256 (98%)	242 (97%)	8 (3%)	0	100	100
4	qk	250/256 (98%)	242 (97%)	8 (3%)	0	100	100
4	ql	250/256 (98%)	242 (97%)	8 (3%)	0	100	100
4	qm	250/256 (98%)	242 (97%)	8 (3%)	0	100	100
4	qn	250/256 (98%)	242 (97%)	8 (3%)	0	100	100
4	qo	250/256 (98%)	242 (97%)	8 (3%)	0	100	100
5	qB	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
5	qD	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
5	qF	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
5	qH	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
5	qJ	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
5	qL	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
5	qp	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
5	qr	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
5	qt	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
5	qv	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
5	qx	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
5	qz	403/526 (77%)	389 (96%)	14 (4%)	0	100	100
6	qA	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56
6	qC	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56
6	qE	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56
6	qG	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56
6	qI	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56
6	qK	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56
6	qM	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	qq	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56
6	qs	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56
6	qu	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56
6	qw	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56
6	qy	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	56
All	All	152303/184066 (83%)	136940 (90%)	15291 (10%)	72 (0%)	100	100

All (72) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	ag	190	PRO
2	au	190	PRO
2	aH	190	PRO
2	aV	190	PRO
2	bj	190	PRO
2	bx	190	PRO
2	bL	190	PRO
2	bY	190	PRO
2	cm	190	PRO
2	cA	190	PRO
2	cO	190	PRO
2	dc	190	PRO
2	dq	190	PRO
2	dE	190	PRO
2	dS	190	PRO
2	eg	190	PRO
2	eu	190	PRO
2	eI	190	PRO
2	eW	190	PRO
2	fk	190	PRO
2	fy	190	PRO
2	fM	190	PRO
2	ga	190	PRO
2	go	190	PRO
2	gC	190	PRO
2	gQ	190	PRO
2	he	190	PRO
2	hs	190	PRO
2	hF	190	PRO
2	hS	190	PRO

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Mol	Chain	Res	Type
2	ig	190	PRO
2	iu	190	PRO
2	iI	190	PRO
2	iW	190	PRO
2	jk	190	PRO
2	jy	190	PRO
2	jM	190	PRO
2	ka	190	PRO
2	ko	190	PRO
2	kB	190	PRO
2	kP	190	PRO
2	ld	190	PRO
2	lr	190	PRO
2	lF	190	PRO
2	lT	190	PRO
2	mh	190	PRO
2	mv	190	PRO
2	mJ	190	PRO
2	mX	190	PRO
2	nl	190	PRO
2	nz	190	PRO
2	nN	190	PRO
2	ob	190	PRO
2	op	190	PRO
2	oD	190	PRO
2	oR	190	PRO
2	pf	190	PRO
2	pt	190	PRO
2	pH	190	PRO
2	pV	190	PRO
6	qq	129	GLU
6	qs	129	GLU
6	qu	129	GLU
6	qw	129	GLU
6	qy	129	GLU
6	qA	129	GLU
6	qC	129	GLU
6	qE	129	GLU
6	qG	129	GLU
6	qI	129	GLU
6	qK	129	GLU
6	qM	129	GLU

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	aA	46/93 (50%)	46 (100%)	0	100	100
1	aB	46/93 (50%)	46 (100%)	0	100	100
1	aC	46/93 (50%)	46 (100%)	0	100	100
1	aD	46/93 (50%)	46 (100%)	0	100	100
1	aE	46/93 (50%)	46 (100%)	0	100	100
1	aF	46/93 (50%)	46 (100%)	0	100	100
1	aG	46/93 (50%)	46 (100%)	0	100	100
1	aO	46/93 (50%)	46 (100%)	0	100	100
1	aP	46/93 (50%)	46 (100%)	0	100	100
1	aQ	46/93 (50%)	46 (100%)	0	100	100
1	aR	46/93 (50%)	46 (100%)	0	100	100
1	aS	46/93 (50%)	46 (100%)	0	100	100
1	aT	46/93 (50%)	46 (100%)	0	100	100
1	aU	46/93 (50%)	46 (100%)	0	100	100
1	aa	46/93 (50%)	46 (100%)	0	100	100
1	ab	46/93 (50%)	46 (100%)	0	100	100
1	ac	46/93 (50%)	46 (100%)	0	100	100
1	ad	46/93 (50%)	46 (100%)	0	100	100
1	ae	46/93 (50%)	46 (100%)	0	100	100
1	af	46/93 (50%)	46 (100%)	0	100	100
1	an	46/93 (50%)	46 (100%)	0	100	100
1	ao	46/93 (50%)	46 (100%)	0	100	100
1	ap	46/93 (50%)	46 (100%)	0	100	100
1	aq	46/93 (50%)	46 (100%)	0	100	100
1	ar	46/93 (50%)	46 (100%)	0	100	100
1	as	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	at	46/93 (50%)	46 (100%)	0	100	100
1	bE	46/93 (50%)	46 (100%)	0	100	100
1	bF	46/93 (50%)	46 (100%)	0	100	100
1	bG	46/93 (50%)	46 (100%)	0	100	100
1	bH	46/93 (50%)	46 (100%)	0	100	100
1	bI	46/93 (50%)	46 (100%)	0	100	100
1	bJ	46/93 (50%)	46 (100%)	0	100	100
1	bK	46/93 (50%)	46 (100%)	0	100	100
1	bR	46/93 (50%)	46 (100%)	0	100	100
1	bS	46/93 (50%)	46 (100%)	0	100	100
1	bT	46/93 (50%)	46 (100%)	0	100	100
1	bU	46/93 (50%)	46 (100%)	0	100	100
1	bV	46/93 (50%)	46 (100%)	0	100	100
1	bW	46/93 (50%)	46 (100%)	0	100	100
1	bX	46/93 (50%)	46 (100%)	0	100	100
1	bc	46/93 (50%)	46 (100%)	0	100	100
1	bd	46/93 (50%)	46 (100%)	0	100	100
1	be	46/93 (50%)	46 (100%)	0	100	100
1	bf	46/93 (50%)	46 (100%)	0	100	100
1	bg	46/93 (50%)	46 (100%)	0	100	100
1	bh	46/93 (50%)	46 (100%)	0	100	100
1	bi	46/93 (50%)	46 (100%)	0	100	100
1	bq	46/93 (50%)	46 (100%)	0	100	100
1	br	46/93 (50%)	46 (100%)	0	100	100
1	bs	46/93 (50%)	46 (100%)	0	100	100
1	bt	46/93 (50%)	46 (100%)	0	100	100
1	bu	46/93 (50%)	46 (100%)	0	100	100
1	bv	46/93 (50%)	46 (100%)	0	100	100
1	bw	46/93 (50%)	46 (100%)	0	100	100
1	cH	46/93 (50%)	46 (100%)	0	100	100
1	cI	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	cJ	46/93 (50%)	46 (100%)	0	100	100
1	cK	46/93 (50%)	46 (100%)	0	100	100
1	cL	46/93 (50%)	46 (100%)	0	100	100
1	cM	46/93 (50%)	46 (100%)	0	100	100
1	cN	46/93 (50%)	46 (100%)	0	100	100
1	cV	46/93 (50%)	46 (100%)	0	100	100
1	cW	46/93 (50%)	46 (100%)	0	100	100
1	cX	46/93 (50%)	46 (100%)	0	100	100
1	cY	46/93 (50%)	46 (100%)	0	100	100
1	cZ	46/93 (50%)	46 (100%)	0	100	100
1	cf	46/93 (50%)	46 (100%)	0	100	100
1	cg	46/93 (50%)	46 (100%)	0	100	100
1	ch	46/93 (50%)	46 (100%)	0	100	100
1	ci	46/93 (50%)	46 (100%)	0	100	100
1	cj	46/93 (50%)	46 (100%)	0	100	100
1	ck	46/93 (50%)	46 (100%)	0	100	100
1	cl	46/93 (50%)	46 (100%)	0	100	100
1	ct	46/93 (50%)	46 (100%)	0	100	100
1	cu	46/93 (50%)	46 (100%)	0	100	100
1	cv	46/93 (50%)	46 (100%)	0	100	100
1	cw	46/93 (50%)	46 (100%)	0	100	100
1	cx	46/93 (50%)	46 (100%)	0	100	100
1	cy	46/93 (50%)	46 (100%)	0	100	100
1	cz	46/93 (50%)	46 (100%)	0	100	100
1	dA	46/93 (50%)	46 (100%)	0	100	100
1	dB	46/93 (50%)	46 (100%)	0	100	100
1	dC	46/93 (50%)	46 (100%)	0	100	100
1	dD	46/93 (50%)	46 (100%)	0	100	100
1	dL	46/93 (50%)	46 (100%)	0	100	100
1	dM	46/93 (50%)	46 (100%)	0	100	100
1	dN	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	dO	46/93 (50%)	46 (100%)	0	100	100
1	dP	46/93 (50%)	46 (100%)	0	100	100
1	dQ	46/93 (50%)	46 (100%)	0	100	100
1	dR	46/93 (50%)	46 (100%)	0	100	100
1	dZ	46/93 (50%)	46 (100%)	0	100	100
1	da	46/93 (50%)	46 (100%)	0	100	100
1	db	46/93 (50%)	46 (100%)	0	100	100
1	dj	46/93 (50%)	46 (100%)	0	100	100
1	dk	46/93 (50%)	46 (100%)	0	100	100
1	dl	46/93 (50%)	46 (100%)	0	100	100
1	dm	46/93 (50%)	46 (100%)	0	100	100
1	dn	46/93 (50%)	46 (100%)	0	100	100
1	do	46/93 (50%)	46 (100%)	0	100	100
1	dp	46/93 (50%)	46 (100%)	0	100	100
1	dx	46/93 (50%)	46 (100%)	0	100	100
1	dy	46/93 (50%)	46 (100%)	0	100	100
1	dz	46/93 (50%)	46 (100%)	0	100	100
1	eB	46/93 (50%)	46 (100%)	0	100	100
1	eC	46/93 (50%)	46 (100%)	0	100	100
1	eD	46/93 (50%)	46 (100%)	0	100	100
1	eE	46/93 (50%)	46 (100%)	0	100	100
1	eF	46/93 (50%)	46 (100%)	0	100	100
1	eG	46/93 (50%)	46 (100%)	0	100	100
1	eH	46/93 (50%)	46 (100%)	0	100	100
1	eP	46/93 (50%)	46 (100%)	0	100	100
1	eQ	46/93 (50%)	46 (100%)	0	100	100
1	eR	46/93 (50%)	46 (100%)	0	100	100
1	eS	46/93 (50%)	46 (100%)	0	100	100
1	eT	46/93 (50%)	46 (100%)	0	100	100
1	eU	46/93 (50%)	46 (100%)	0	100	100
1	eV	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	ea	46/93 (50%)	46 (100%)	0	100	100
1	eb	46/93 (50%)	46 (100%)	0	100	100
1	ec	46/93 (50%)	46 (100%)	0	100	100
1	ed	46/93 (50%)	46 (100%)	0	100	100
1	ee	46/93 (50%)	46 (100%)	0	100	100
1	ef	46/93 (50%)	46 (100%)	0	100	100
1	en	46/93 (50%)	46 (100%)	0	100	100
1	eo	46/93 (50%)	46 (100%)	0	100	100
1	ep	46/93 (50%)	46 (100%)	0	100	100
1	eq	46/93 (50%)	46 (100%)	0	100	100
1	er	46/93 (50%)	46 (100%)	0	100	100
1	es	46/93 (50%)	46 (100%)	0	100	100
1	et	46/93 (50%)	46 (100%)	0	100	100
1	fF	46/93 (50%)	46 (100%)	0	100	100
1	fG	46/93 (50%)	46 (100%)	0	100	100
1	fH	46/93 (50%)	46 (100%)	0	100	100
1	fI	46/93 (50%)	46 (100%)	0	100	100
1	fJ	46/93 (50%)	46 (100%)	0	100	100
1	fK	46/93 (50%)	46 (100%)	0	100	100
1	fL	46/93 (50%)	46 (100%)	0	100	100
1	fT	46/93 (50%)	46 (100%)	0	100	100
1	fU	46/93 (50%)	46 (100%)	0	100	100
1	fV	46/93 (50%)	46 (100%)	0	100	100
1	fW	46/93 (50%)	46 (100%)	0	100	100
1	fX	46/93 (50%)	46 (100%)	0	100	100
1	fY	46/93 (50%)	46 (100%)	0	100	100
1	fZ	46/93 (50%)	46 (100%)	0	100	100
1	fd	46/93 (50%)	46 (100%)	0	100	100
1	fe	46/93 (50%)	46 (100%)	0	100	100
1	ff	46/93 (50%)	46 (100%)	0	100	100
1	fg	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	fh	46/93 (50%)	46 (100%)	0	100	100
1	fi	46/93 (50%)	46 (100%)	0	100	100
1	fj	46/93 (50%)	46 (100%)	0	100	100
1	fr	46/93 (50%)	46 (100%)	0	100	100
1	fs	46/93 (50%)	46 (100%)	0	100	100
1	ft	46/93 (50%)	46 (100%)	0	100	100
1	fu	46/93 (50%)	46 (100%)	0	100	100
1	fv	46/93 (50%)	46 (100%)	0	100	100
1	fw	46/93 (50%)	46 (100%)	0	100	100
1	fx	46/93 (50%)	46 (100%)	0	100	100
1	gA	46/93 (50%)	46 (100%)	0	100	100
1	gB	46/93 (50%)	46 (100%)	0	100	100
1	gJ	46/93 (50%)	46 (100%)	0	100	100
1	gK	46/93 (50%)	46 (100%)	0	100	100
1	gL	46/93 (50%)	46 (100%)	0	100	100
1	gM	46/93 (50%)	46 (100%)	0	100	100
1	gN	46/93 (50%)	46 (100%)	0	100	100
1	gO	46/93 (50%)	46 (100%)	0	100	100
1	gP	46/93 (50%)	46 (100%)	0	100	100
1	gX	46/93 (50%)	46 (100%)	0	100	100
1	gY	46/93 (50%)	46 (100%)	0	100	100
1	gZ	46/93 (50%)	46 (100%)	0	100	100
1	gh	46/93 (50%)	46 (100%)	0	100	100
1	gi	46/93 (50%)	46 (100%)	0	100	100
1	gj	46/93 (50%)	46 (100%)	0	100	100
1	gk	46/93 (50%)	46 (100%)	0	100	100
1	gl	46/93 (50%)	46 (100%)	0	100	100
1	gm	46/93 (50%)	46 (100%)	0	100	100
1	gn	46/93 (50%)	46 (100%)	0	100	100
1	gv	46/93 (50%)	46 (100%)	0	100	100
1	gw	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	gx	46/93 (50%)	46 (100%)	0	100	100
1	gy	46/93 (50%)	46 (100%)	0	100	100
1	gz	46/93 (50%)	46 (100%)	0	100	100
1	hA	46/93 (50%)	46 (100%)	0	100	100
1	hB	46/93 (50%)	46 (100%)	0	100	100
1	hC	46/93 (50%)	46 (100%)	0	100	100
1	hD	46/93 (50%)	46 (100%)	0	100	100
1	hE	46/93 (50%)	46 (100%)	0	100	100
1	hL	46/93 (50%)	46 (100%)	0	100	100
1	hM	46/93 (50%)	46 (100%)	0	100	100
1	hN	46/93 (50%)	46 (100%)	0	100	100
1	hO	46/93 (50%)	46 (100%)	0	100	100
1	hP	46/93 (50%)	46 (100%)	0	100	100
1	hQ	46/93 (50%)	46 (100%)	0	100	100
1	hR	46/93 (50%)	46 (100%)	0	100	100
1	hZ	46/93 (50%)	46 (100%)	0	100	100
1	ha	46/93 (50%)	46 (100%)	0	100	100
1	hb	46/93 (50%)	46 (100%)	0	100	100
1	hc	46/93 (50%)	46 (100%)	0	100	100
1	hd	46/93 (50%)	46 (100%)	0	100	100
1	hl	46/93 (50%)	46 (100%)	0	100	100
1	hm	46/93 (50%)	46 (100%)	0	100	100
1	hn	46/93 (50%)	46 (100%)	0	100	100
1	ho	46/93 (50%)	46 (100%)	0	100	100
1	hp	46/93 (50%)	46 (100%)	0	100	100
1	hq	46/93 (50%)	46 (100%)	0	100	100
1	hr	46/93 (50%)	46 (100%)	0	100	100
1	hy	46/93 (50%)	46 (100%)	0	100	100
1	hz	46/93 (50%)	46 (100%)	0	100	100
1	iB	46/93 (50%)	46 (100%)	0	100	100
1	iC	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	iD	46/93 (50%)	46 (100%)	0	100	100
1	iE	46/93 (50%)	46 (100%)	0	100	100
1	iF	46/93 (50%)	46 (100%)	0	100	100
1	iG	46/93 (50%)	46 (100%)	0	100	100
1	iH	46/93 (50%)	46 (100%)	0	100	100
1	iP	46/93 (50%)	46 (100%)	0	100	100
1	iQ	46/93 (50%)	46 (100%)	0	100	100
1	iR	46/93 (50%)	46 (100%)	0	100	100
1	iS	46/93 (50%)	46 (100%)	0	100	100
1	iT	46/93 (50%)	46 (100%)	0	100	100
1	iU	46/93 (50%)	46 (100%)	0	100	100
1	iV	46/93 (50%)	46 (100%)	0	100	100
1	ia	46/93 (50%)	46 (100%)	0	100	100
1	ib	46/93 (50%)	46 (100%)	0	100	100
1	ic	46/93 (50%)	46 (100%)	0	100	100
1	id	46/93 (50%)	46 (100%)	0	100	100
1	ie	46/93 (50%)	46 (100%)	0	100	100
1	if	46/93 (50%)	46 (100%)	0	100	100
1	in	46/93 (50%)	46 (100%)	0	100	100
1	io	46/93 (50%)	46 (100%)	0	100	100
1	ip	46/93 (50%)	46 (100%)	0	100	100
1	iq	46/93 (50%)	46 (100%)	0	100	100
1	ir	46/93 (50%)	46 (100%)	0	100	100
1	is	46/93 (50%)	46 (100%)	0	100	100
1	it	46/93 (50%)	46 (100%)	0	100	100
1	jF	46/93 (50%)	46 (100%)	0	100	100
1	jG	46/93 (50%)	46 (100%)	0	100	100
1	jH	46/93 (50%)	46 (100%)	0	100	100
1	jI	46/93 (50%)	46 (100%)	0	100	100
1	jJ	46/93 (50%)	46 (100%)	0	100	100
1	jK	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	jL	46/93 (50%)	46 (100%)	0	100	100
1	jT	46/93 (50%)	46 (100%)	0	100	100
1	jU	46/93 (50%)	46 (100%)	0	100	100
1	jV	46/93 (50%)	46 (100%)	0	100	100
1	jW	46/93 (50%)	46 (100%)	0	100	100
1	jX	46/93 (50%)	46 (100%)	0	100	100
1	jY	46/93 (50%)	46 (100%)	0	100	100
1	jZ	46/93 (50%)	46 (100%)	0	100	100
1	jd	46/93 (50%)	46 (100%)	0	100	100
1	je	46/93 (50%)	46 (100%)	0	100	100
1	jf	46/93 (50%)	46 (100%)	0	100	100
1	yg	46/93 (50%)	46 (100%)	0	100	100
1	jh	46/93 (50%)	46 (100%)	0	100	100
1	ji	46/93 (50%)	46 (100%)	0	100	100
1	jj	46/93 (50%)	46 (100%)	0	100	100
1	jr	46/93 (50%)	46 (100%)	0	100	100
1	js	46/93 (50%)	46 (100%)	0	100	100
1	jt	46/93 (50%)	46 (100%)	0	100	100
1	ju	46/93 (50%)	46 (100%)	0	100	100
1	jv	46/93 (50%)	46 (100%)	0	100	100
1	jw	46/93 (50%)	46 (100%)	0	100	100
1	jx	46/93 (50%)	46 (100%)	0	100	100
1	kA	46/93 (50%)	46 (100%)	0	100	100
1	kI	46/93 (50%)	46 (100%)	0	100	100
1	kJ	46/93 (50%)	46 (100%)	0	100	100
1	kK	46/93 (50%)	46 (100%)	0	100	100
1	kL	46/93 (50%)	46 (100%)	0	100	100
1	kM	46/93 (50%)	46 (100%)	0	100	100
1	kN	46/93 (50%)	46 (100%)	0	100	100
1	kO	46/93 (50%)	46 (100%)	0	100	100
1	kW	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	kX	46/93 (50%)	46 (100%)	0	100	100
1	kY	46/93 (50%)	46 (100%)	0	100	100
1	kZ	46/93 (50%)	46 (100%)	0	100	100
1	kh	46/93 (50%)	46 (100%)	0	100	100
1	ki	46/93 (50%)	46 (100%)	0	100	100
1	kj	46/93 (50%)	46 (100%)	0	100	100
1	kk	46/93 (50%)	46 (100%)	0	100	100
1	kl	46/93 (50%)	46 (100%)	0	100	100
1	km	46/93 (50%)	46 (100%)	0	100	100
1	kn	46/93 (50%)	46 (100%)	0	100	100
1	ku	46/93 (50%)	46 (100%)	0	100	100
1	kv	46/93 (50%)	46 (100%)	0	100	100
1	kw	46/93 (50%)	46 (100%)	0	100	100
1	kx	46/93 (50%)	46 (100%)	0	100	100
1	ky	46/93 (50%)	46 (100%)	0	100	100
1	kz	46/93 (50%)	46 (100%)	0	100	100
1	lA	46/93 (50%)	46 (100%)	0	100	100
1	lB	46/93 (50%)	46 (100%)	0	100	100
1	lC	46/93 (50%)	46 (100%)	0	100	100
1	lD	46/93 (50%)	46 (100%)	0	100	100
1	lE	46/93 (50%)	46 (100%)	0	100	100
1	lM	46/93 (50%)	46 (100%)	0	100	100
1	lN	46/93 (50%)	46 (100%)	0	100	100
1	lO	46/93 (50%)	46 (100%)	0	100	100
1	lP	46/93 (50%)	46 (100%)	0	100	100
1	lQ	46/93 (50%)	46 (100%)	0	100	100
1	lR	46/93 (50%)	46 (100%)	0	100	100
1	lS	46/93 (50%)	46 (100%)	0	100	100
1	la	46/93 (50%)	46 (100%)	0	100	100
1	lb	46/93 (50%)	46 (100%)	0	100	100
1	lc	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	lk	46/93 (50%)	46 (100%)	0	100	100
1	ll	46/93 (50%)	46 (100%)	0	100	100
1	lm	46/93 (50%)	46 (100%)	0	100	100
1	ln	46/93 (50%)	46 (100%)	0	100	100
1	lo	46/93 (50%)	46 (100%)	0	100	100
1	lp	46/93 (50%)	46 (100%)	0	100	100
1	lq	46/93 (50%)	46 (100%)	0	100	100
1	ly	46/93 (50%)	46 (100%)	0	100	100
1	lz	46/93 (50%)	46 (100%)	0	100	100
1	mC	46/93 (50%)	46 (100%)	0	100	100
1	mD	46/93 (50%)	46 (100%)	0	100	100
1	mE	46/93 (50%)	46 (100%)	0	100	100
1	mF	46/93 (50%)	46 (100%)	0	100	100
1	mG	46/93 (50%)	46 (100%)	0	100	100
1	mH	46/93 (50%)	46 (100%)	0	100	100
1	mI	46/93 (50%)	46 (100%)	0	100	100
1	mQ	46/93 (50%)	46 (100%)	0	100	100
1	mR	46/93 (50%)	46 (100%)	0	100	100
1	mS	46/93 (50%)	46 (100%)	0	100	100
1	mT	46/93 (50%)	46 (100%)	0	100	100
1	mU	46/93 (50%)	46 (100%)	0	100	100
1	mV	46/93 (50%)	46 (100%)	0	100	100
1	mW	46/93 (50%)	46 (100%)	0	100	100
1	ma	46/93 (50%)	46 (100%)	0	100	100
1	mb	46/93 (50%)	46 (100%)	0	100	100
1	mc	46/93 (50%)	46 (100%)	0	100	100
1	md	46/93 (50%)	46 (100%)	0	100	100
1	me	46/93 (50%)	46 (100%)	0	100	100
1	mf	46/93 (50%)	46 (100%)	0	100	100
1	mg	46/93 (50%)	46 (100%)	0	100	100
1	mo	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	mp	46/93 (50%)	46 (100%)	0	100	100
1	mq	46/93 (50%)	46 (100%)	0	100	100
1	mr	46/93 (50%)	46 (100%)	0	100	100
1	ms	46/93 (50%)	46 (100%)	0	100	100
1	mt	46/93 (50%)	46 (100%)	0	100	100
1	mu	46/93 (50%)	46 (100%)	0	100	100
1	nG	46/93 (50%)	46 (100%)	0	100	100
1	nH	46/93 (50%)	46 (100%)	0	100	100
1	nI	46/93 (50%)	46 (100%)	0	100	100
1	nJ	46/93 (50%)	46 (100%)	0	100	100
1	nK	46/93 (50%)	46 (100%)	0	100	100
1	nL	46/93 (50%)	46 (100%)	0	100	100
1	nM	46/93 (50%)	46 (100%)	0	100	100
1	nU	46/93 (50%)	46 (100%)	0	100	100
1	nV	46/93 (50%)	46 (100%)	0	100	100
1	nW	46/93 (50%)	46 (100%)	0	100	100
1	nX	46/93 (50%)	46 (100%)	0	100	100
1	nY	46/93 (50%)	46 (100%)	0	100	100
1	nZ	46/93 (50%)	46 (100%)	0	100	100
1	ne	46/93 (50%)	46 (100%)	0	100	100
1	nf	46/93 (50%)	46 (100%)	0	100	100
1	ng	46/93 (50%)	46 (100%)	0	100	100
1	nh	46/93 (50%)	46 (100%)	0	100	100
1	ni	46/93 (50%)	46 (100%)	0	100	100
1	nj	46/93 (50%)	46 (100%)	0	100	100
1	nk	46/93 (50%)	46 (100%)	0	100	100
1	ns	46/93 (50%)	46 (100%)	0	100	100
1	nt	46/93 (50%)	46 (100%)	0	100	100
1	nu	46/93 (50%)	46 (100%)	0	100	100
1	nv	46/93 (50%)	46 (100%)	0	100	100
1	nw	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	nx	46/93 (50%)	46 (100%)	0	100	100
1	ny	46/93 (50%)	46 (100%)	0	100	100
1	oA	46/93 (50%)	46 (100%)	0	100	100
1	oB	46/93 (50%)	46 (100%)	0	100	100
1	oC	46/93 (50%)	46 (100%)	0	100	100
1	oK	46/93 (50%)	46 (100%)	0	100	100
1	oL	46/93 (50%)	46 (100%)	0	100	100
1	oM	46/93 (50%)	46 (100%)	0	100	100
1	oN	46/93 (50%)	46 (100%)	0	100	100
1	oO	46/93 (50%)	46 (100%)	0	100	100
1	oP	46/93 (50%)	46 (100%)	0	100	100
1	oQ	46/93 (50%)	46 (100%)	0	100	100
1	oY	46/93 (50%)	46 (100%)	0	100	100
1	oZ	46/93 (50%)	46 (100%)	0	100	100
1	oa	46/93 (50%)	46 (100%)	0	100	100
1	oi	46/93 (50%)	46 (100%)	0	100	100
1	oj	46/93 (50%)	46 (100%)	0	100	100
1	ok	46/93 (50%)	46 (100%)	0	100	100
1	ol	46/93 (50%)	46 (100%)	0	100	100
1	om	46/93 (50%)	46 (100%)	0	100	100
1	on	46/93 (50%)	46 (100%)	0	100	100
1	oo	46/93 (50%)	46 (100%)	0	100	100
1	ow	46/93 (50%)	46 (100%)	0	100	100
1	ox	46/93 (50%)	46 (100%)	0	100	100
1	oy	46/93 (50%)	46 (100%)	0	100	100
1	oz	46/93 (50%)	46 (100%)	0	100	100
1	pA	46/93 (50%)	46 (100%)	0	100	100
1	pB	46/93 (50%)	46 (100%)	0	100	100
1	pC	46/93 (50%)	46 (100%)	0	100	100
1	pD	46/93 (50%)	46 (100%)	0	100	100
1	pE	46/93 (50%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	pF	46/93 (50%)	46 (100%)	0	100	100
1	pG	46/93 (50%)	46 (100%)	0	100	100
1	pO	46/93 (50%)	46 (100%)	0	100	100
1	pP	46/93 (50%)	46 (100%)	0	100	100
1	pQ	46/93 (50%)	46 (100%)	0	100	100
1	pR	46/93 (50%)	46 (100%)	0	100	100
1	pS	46/93 (50%)	46 (100%)	0	100	100
1	pT	46/93 (50%)	46 (100%)	0	100	100
1	pU	46/93 (50%)	46 (100%)	0	100	100
1	pa	46/93 (50%)	46 (100%)	0	100	100
1	pb	46/93 (50%)	46 (100%)	0	100	100
1	pc	46/93 (50%)	46 (100%)	0	100	100
1	pd	46/93 (50%)	46 (100%)	0	100	100
1	pe	46/93 (50%)	46 (100%)	0	100	100
1	pm	46/93 (50%)	46 (100%)	0	100	100
1	pn	46/93 (50%)	46 (100%)	0	100	100
1	po	46/93 (50%)	46 (100%)	0	100	100
1	pp	46/93 (50%)	46 (100%)	0	100	100
1	pq	46/93 (50%)	46 (100%)	0	100	100
1	pr	46/93 (50%)	46 (100%)	0	100	100
1	ps	46/93 (50%)	46 (100%)	0	100	100
1	qc	46/93 (50%)	46 (100%)	0	100	100
2	aH	243/252 (96%)	243 (100%)	0	100	100
2	aI	244/252 (97%)	244 (100%)	0	100	100
2	aJ	243/252 (96%)	243 (100%)	0	100	100
2	aK	243/252 (96%)	243 (100%)	0	100	100
2	aL	243/252 (96%)	243 (100%)	0	100	100
2	aM	243/252 (96%)	243 (100%)	0	100	100
2	aN	243/252 (96%)	243 (100%)	0	100	100
2	aV	243/252 (96%)	243 (100%)	0	100	100
2	aW	244/252 (97%)	244 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	aX	243/252 (96%)	243 (100%)	0	100	100
2	aY	243/252 (96%)	243 (100%)	0	100	100
2	aZ	243/252 (96%)	243 (100%)	0	100	100
2	ag	243/252 (96%)	243 (100%)	0	100	100
2	ah	244/252 (97%)	244 (100%)	0	100	100
2	ai	243/252 (96%)	243 (100%)	0	100	100
2	aj	243/252 (96%)	243 (100%)	0	100	100
2	ak	243/252 (96%)	243 (100%)	0	100	100
2	al	243/252 (96%)	243 (100%)	0	100	100
2	am	243/252 (96%)	243 (100%)	0	100	100
2	au	243/252 (96%)	243 (100%)	0	100	100
2	av	243/252 (96%)	243 (100%)	0	100	100
2	aw	243/252 (96%)	243 (100%)	0	100	100
2	ax	243/252 (96%)	243 (100%)	0	100	100
2	ay	243/252 (96%)	243 (100%)	0	100	100
2	az	243/252 (96%)	243 (100%)	0	100	100
2	bA	243/252 (96%)	243 (100%)	0	100	100
2	bB	243/252 (96%)	243 (100%)	0	100	100
2	bC	243/252 (96%)	243 (100%)	0	100	100
2	bD	243/252 (96%)	243 (100%)	0	100	100
2	bL	243/252 (96%)	243 (100%)	0	100	100
2	bM	243/252 (96%)	243 (100%)	0	100	100
2	bN	243/252 (96%)	243 (100%)	0	100	100
2	bO	243/252 (96%)	243 (100%)	0	100	100
2	bP	243/252 (96%)	243 (100%)	0	100	100
2	bQ	243/252 (96%)	243 (100%)	0	100	100
2	bY	243/252 (96%)	243 (100%)	0	100	100
2	bZ	244/252 (97%)	244 (100%)	0	100	100
2	ba	243/252 (96%)	243 (100%)	0	100	100
2	bb	243/252 (96%)	243 (100%)	0	100	100
2	bj	243/252 (96%)	243 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	bk	244/252 (97%)	244 (100%)	0	100	100
2	bl	243/252 (96%)	243 (100%)	0	100	100
2	bm	243/252 (96%)	243 (100%)	0	100	100
2	bn	243/252 (96%)	243 (100%)	0	100	100
2	bo	243/252 (96%)	243 (100%)	0	100	100
2	bp	243/252 (96%)	243 (100%)	0	100	100
2	bx	243/252 (96%)	243 (100%)	0	100	100
2	by	244/252 (97%)	244 (100%)	0	100	100
2	bz	243/252 (96%)	243 (100%)	0	100	100
2	cA	243/252 (96%)	243 (100%)	0	100	100
2	cB	244/252 (97%)	244 (100%)	0	100	100
2	cC	243/252 (96%)	243 (100%)	0	100	100
2	cD	243/252 (96%)	243 (100%)	0	100	100
2	cE	243/252 (96%)	243 (100%)	0	100	100
2	cF	243/252 (96%)	243 (100%)	0	100	100
2	cG	243/252 (96%)	243 (100%)	0	100	100
2	cO	243/252 (96%)	243 (100%)	0	100	100
2	cP	244/252 (97%)	244 (100%)	0	100	100
2	cQ	243/252 (96%)	243 (100%)	0	100	100
2	cR	243/252 (96%)	243 (100%)	0	100	100
2	cS	243/252 (96%)	243 (100%)	0	100	100
2	cT	243/252 (96%)	243 (100%)	0	100	100
2	cU	243/252 (96%)	243 (100%)	0	100	100
2	ca	243/252 (96%)	243 (100%)	0	100	100
2	cb	243/252 (96%)	243 (100%)	0	100	100
2	cc	243/252 (96%)	243 (100%)	0	100	100
2	cd	243/252 (96%)	243 (100%)	0	100	100
2	ce	243/252 (96%)	243 (100%)	0	100	100
2	cm	243/252 (96%)	243 (100%)	0	100	100
2	cn	244/252 (97%)	244 (100%)	0	100	100
2	co	243/252 (96%)	243 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	cp	243/252 (96%)	243 (100%)	0	100	100
2	cq	243/252 (96%)	243 (100%)	0	100	100
2	cr	243/252 (96%)	243 (100%)	0	100	100
2	cs	243/252 (96%)	243 (100%)	0	100	100
2	dE	243/252 (96%)	243 (100%)	0	100	100
2	dF	244/252 (97%)	244 (100%)	0	100	100
2	dG	243/252 (96%)	243 (100%)	0	100	100
2	dH	243/252 (96%)	243 (100%)	0	100	100
2	dI	243/252 (96%)	243 (100%)	0	100	100
2	dJ	243/252 (96%)	243 (100%)	0	100	100
2	dK	243/252 (96%)	243 (100%)	0	100	100
2	dS	243/252 (96%)	243 (100%)	0	100	100
2	dT	244/252 (97%)	244 (100%)	0	100	100
2	dU	243/252 (96%)	243 (100%)	0	100	100
2	dV	243/252 (96%)	243 (100%)	0	100	100
2	dW	243/252 (96%)	243 (100%)	0	100	100
2	dX	243/252 (96%)	243 (100%)	0	100	100
2	dY	243/252 (96%)	243 (100%)	0	100	100
2	dc	243/252 (96%)	243 (100%)	0	100	100
2	dd	244/252 (97%)	244 (100%)	0	100	100
2	de	243/252 (96%)	243 (100%)	0	100	100
2	df	243/252 (96%)	243 (100%)	0	100	100
2	dg	243/252 (96%)	243 (100%)	0	100	100
2	dh	243/252 (96%)	243 (100%)	0	100	100
2	di	243/252 (96%)	243 (100%)	0	100	100
2	dq	243/252 (96%)	243 (100%)	0	100	100
2	dr	244/252 (97%)	244 (100%)	0	100	100
2	ds	243/252 (96%)	243 (100%)	0	100	100
2	dt	243/252 (96%)	243 (100%)	0	100	100
2	du	243/252 (96%)	243 (100%)	0	100	100
2	dv	243/252 (96%)	243 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	dw	243/252 (96%)	243 (100%)	0	100	100
2	eA	243/252 (96%)	243 (100%)	0	100	100
2	eI	243/252 (96%)	243 (100%)	0	100	100
2	eJ	244/252 (97%)	244 (100%)	0	100	100
2	eK	243/252 (96%)	243 (100%)	0	100	100
2	eL	243/252 (96%)	243 (100%)	0	100	100
2	eM	243/252 (96%)	243 (100%)	0	100	100
2	eN	243/252 (96%)	243 (100%)	0	100	100
2	eO	243/252 (96%)	243 (100%)	0	100	100
2	eW	243/252 (96%)	243 (100%)	0	100	100
2	eX	244/252 (97%)	244 (100%)	0	100	100
2	eY	243/252 (96%)	243 (100%)	0	100	100
2	eZ	243/252 (96%)	243 (100%)	0	100	100
2	eg	243/252 (96%)	243 (100%)	0	100	100
2	eh	244/252 (97%)	244 (100%)	0	100	100
2	ei	243/252 (96%)	243 (100%)	0	100	100
2	ej	243/252 (96%)	243 (100%)	0	100	100
2	ek	243/252 (96%)	243 (100%)	0	100	100
2	el	243/252 (96%)	243 (100%)	0	100	100
2	em	243/252 (96%)	243 (100%)	0	100	100
2	eu	243/252 (96%)	243 (100%)	0	100	100
2	ev	244/252 (97%)	244 (100%)	0	100	100
2	ew	243/252 (96%)	243 (100%)	0	100	100
2	ex	243/252 (96%)	243 (100%)	0	100	100
2	ey	243/252 (96%)	243 (100%)	0	100	100
2	ez	243/252 (96%)	243 (100%)	0	100	100
2	fA	243/252 (96%)	243 (100%)	0	100	100
2	fB	243/252 (96%)	243 (100%)	0	100	100
2	fC	243/252 (96%)	243 (100%)	0	100	100
2	fD	243/252 (96%)	243 (100%)	0	100	100
2	fE	243/252 (96%)	243 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	fM	243/252 (96%)	243 (100%)	0	100	100
2	fN	244/252 (97%)	244 (100%)	0	100	100
2	fO	243/252 (96%)	243 (100%)	0	100	100
2	fP	243/252 (96%)	243 (100%)	0	100	100
2	fQ	243/252 (96%)	243 (100%)	0	100	100
2	fR	243/252 (96%)	243 (100%)	0	100	100
2	fS	243/252 (96%)	243 (100%)	0	100	100
2	fa	243/252 (96%)	243 (100%)	0	100	100
2	fb	243/252 (96%)	243 (100%)	0	100	100
2	fc	243/252 (96%)	243 (100%)	0	100	100
2	fk	243/252 (96%)	243 (100%)	0	100	100
2	fl	244/252 (97%)	244 (100%)	0	100	100
2	fm	243/252 (96%)	243 (100%)	0	100	100
2	fn	243/252 (96%)	243 (100%)	0	100	100
2	fo	243/252 (96%)	243 (100%)	0	100	100
2	fp	243/252 (96%)	243 (100%)	0	100	100
2	fq	243/252 (96%)	243 (100%)	0	100	100
2	fy	243/252 (96%)	243 (100%)	0	100	100
2	fz	244/252 (97%)	244 (100%)	0	100	100
2	gC	243/252 (96%)	243 (100%)	0	100	100
2	gD	244/252 (97%)	244 (100%)	0	100	100
2	gE	243/252 (96%)	243 (100%)	0	100	100
2	gF	243/252 (96%)	243 (100%)	0	100	100
2	gG	243/252 (96%)	243 (100%)	0	100	100
2	gH	243/252 (96%)	243 (100%)	0	100	100
2	gI	243/252 (96%)	243 (100%)	0	100	100
2	gQ	243/252 (96%)	243 (100%)	0	100	100
2	gR	244/252 (97%)	244 (100%)	0	100	100
2	gS	243/252 (96%)	243 (100%)	0	100	100
2	gT	243/252 (96%)	243 (100%)	0	100	100
2	gU	243/252 (96%)	243 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	gV	243/252 (96%)	243 (100%)	0	100	100
2	gW	243/252 (96%)	243 (100%)	0	100	100
2	ga	243/252 (96%)	243 (100%)	0	100	100
2	gb	244/252 (97%)	244 (100%)	0	100	100
2	gc	243/252 (96%)	243 (100%)	0	100	100
2	gd	243/252 (96%)	243 (100%)	0	100	100
2	ge	243/252 (96%)	243 (100%)	0	100	100
2	gf	243/252 (96%)	243 (100%)	0	100	100
2	gg	243/252 (96%)	243 (100%)	0	100	100
2	go	243/252 (96%)	243 (100%)	0	100	100
2	gp	244/252 (97%)	244 (100%)	0	100	100
2	gq	243/252 (96%)	243 (100%)	0	100	100
2	gr	243/252 (96%)	243 (100%)	0	100	100
2	gs	243/252 (96%)	243 (100%)	0	100	100
2	gt	243/252 (96%)	243 (100%)	0	100	100
2	gu	243/252 (96%)	243 (100%)	0	100	100
2	hF	243/252 (96%)	243 (100%)	0	100	100
2	hG	243/252 (96%)	243 (100%)	0	100	100
2	hH	243/252 (96%)	243 (100%)	0	100	100
2	hI	243/252 (96%)	243 (100%)	0	100	100
2	hJ	243/252 (96%)	243 (100%)	0	100	100
2	hK	243/252 (96%)	243 (100%)	0	100	100
2	hS	243/252 (96%)	243 (100%)	0	100	100
2	hT	244/252 (97%)	244 (100%)	0	100	100
2	hU	243/252 (96%)	243 (100%)	0	100	100
2	hV	243/252 (96%)	243 (100%)	0	100	100
2	hW	243/252 (96%)	243 (100%)	0	100	100
2	hX	243/252 (96%)	243 (100%)	0	100	100
2	hY	243/252 (96%)	243 (100%)	0	100	100
2	he	243/252 (96%)	243 (100%)	0	100	100
2	hf	244/252 (97%)	244 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	hg	243/252 (96%)	243 (100%)	0	100	100
2	hh	243/252 (96%)	243 (100%)	0	100	100
2	hi	243/252 (96%)	243 (100%)	0	100	100
2	hj	243/252 (96%)	243 (100%)	0	100	100
2	hk	243/252 (96%)	243 (100%)	0	100	100
2	hs	243/252 (96%)	243 (100%)	0	100	100
2	ht	243/252 (96%)	243 (100%)	0	100	100
2	hu	243/252 (96%)	243 (100%)	0	100	100
2	hv	243/252 (96%)	243 (100%)	0	100	100
2	hw	243/252 (96%)	243 (100%)	0	100	100
2	hx	243/252 (96%)	243 (100%)	0	100	100
2	iA	243/252 (96%)	243 (100%)	0	100	100
2	iI	243/252 (96%)	243 (100%)	0	100	100
2	iJ	244/252 (97%)	244 (100%)	0	100	100
2	iK	243/252 (96%)	243 (100%)	0	100	100
2	iL	243/252 (96%)	243 (100%)	0	100	100
2	iM	243/252 (96%)	243 (100%)	0	100	100
2	iN	243/252 (96%)	243 (100%)	0	100	100
2	iO	243/252 (96%)	243 (100%)	0	100	100
2	iW	243/252 (96%)	243 (100%)	0	100	100
2	iX	244/252 (97%)	244 (100%)	0	100	100
2	iY	243/252 (96%)	243 (100%)	0	100	100
2	iZ	243/252 (96%)	243 (100%)	0	100	100
2	ig	243/252 (96%)	243 (100%)	0	100	100
2	ih	244/252 (97%)	244 (100%)	0	100	100
2	ii	243/252 (96%)	243 (100%)	0	100	100
2	ij	243/252 (96%)	243 (100%)	0	100	100
2	ik	243/252 (96%)	243 (100%)	0	100	100
2	il	243/252 (96%)	243 (100%)	0	100	100
2	im	243/252 (96%)	243 (100%)	0	100	100
2	iu	243/252 (96%)	243 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	iv	244/252 (97%)	244 (100%)	0	100	100
2	iw	243/252 (96%)	243 (100%)	0	100	100
2	ix	243/252 (96%)	243 (100%)	0	100	100
2	iy	243/252 (96%)	243 (100%)	0	100	100
2	iz	243/252 (96%)	243 (100%)	0	100	100
2	jA	243/252 (96%)	243 (100%)	0	100	100
2	jB	243/252 (96%)	243 (100%)	0	100	100
2	jC	243/252 (96%)	243 (100%)	0	100	100
2	jD	243/252 (96%)	243 (100%)	0	100	100
2	jE	243/252 (96%)	243 (100%)	0	100	100
2	jM	243/252 (96%)	243 (100%)	0	100	100
2	jN	244/252 (97%)	244 (100%)	0	100	100
2	jO	243/252 (96%)	243 (100%)	0	100	100
2	jP	243/252 (96%)	243 (100%)	0	100	100
2	jQ	243/252 (96%)	243 (100%)	0	100	100
2	jR	243/252 (96%)	243 (100%)	0	100	100
2	jS	243/252 (96%)	243 (100%)	0	100	100
2	ja	243/252 (96%)	243 (100%)	0	100	100
2	jb	243/252 (96%)	243 (100%)	0	100	100
2	jc	243/252 (96%)	243 (100%)	0	100	100
2	jk	243/252 (96%)	243 (100%)	0	100	100
2	jl	244/252 (97%)	244 (100%)	0	100	100
2	jm	243/252 (96%)	243 (100%)	0	100	100
2	jn	243/252 (96%)	243 (100%)	0	100	100
2	jo	243/252 (96%)	243 (100%)	0	100	100
2	jp	243/252 (96%)	243 (100%)	0	100	100
2	jq	243/252 (96%)	243 (100%)	0	100	100
2	jy	243/252 (96%)	243 (100%)	0	100	100
2	jz	244/252 (97%)	244 (100%)	0	100	100
2	kB	243/252 (96%)	243 (100%)	0	100	100
2	kC	244/252 (97%)	244 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	kD	243/252 (96%)	243 (100%)	0	100	100
2	kE	243/252 (96%)	243 (100%)	0	100	100
2	kF	243/252 (96%)	243 (100%)	0	100	100
2	kG	243/252 (96%)	243 (100%)	0	100	100
2	kH	243/252 (96%)	243 (100%)	0	100	100
2	kP	243/252 (96%)	243 (100%)	0	100	100
2	kQ	244/252 (97%)	244 (100%)	0	100	100
2	kR	243/252 (96%)	243 (100%)	0	100	100
2	kS	243/252 (96%)	243 (100%)	0	100	100
2	kT	243/252 (96%)	243 (100%)	0	100	100
2	kU	243/252 (96%)	243 (100%)	0	100	100
2	kV	243/252 (96%)	243 (100%)	0	100	100
2	ka	243/252 (96%)	243 (100%)	0	100	100
2	kb	244/252 (97%)	244 (100%)	0	100	100
2	kc	243/252 (96%)	243 (100%)	0	100	100
2	kd	243/252 (96%)	243 (100%)	0	100	100
2	ke	243/252 (96%)	243 (100%)	0	100	100
2	kf	243/252 (96%)	243 (100%)	0	100	100
2	kg	243/252 (96%)	243 (100%)	0	100	100
2	ko	243/252 (96%)	243 (100%)	0	100	100
2	kp	243/252 (96%)	243 (100%)	0	100	100
2	kq	243/252 (96%)	243 (100%)	0	100	100
2	kr	243/252 (96%)	243 (100%)	0	100	100
2	ks	243/252 (96%)	243 (100%)	0	100	100
2	kt	243/252 (96%)	243 (100%)	0	100	100
2	lF	243/252 (96%)	243 (100%)	0	100	100
2	lG	244/252 (97%)	244 (100%)	0	100	100
2	lH	243/252 (96%)	243 (100%)	0	100	100
2	lI	243/252 (96%)	243 (100%)	0	100	100
2	lJ	243/252 (96%)	243 (100%)	0	100	100
2	lK	243/252 (96%)	243 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	lL	243/252 (96%)	243 (100%)	0	100	100
2	lT	243/252 (96%)	243 (100%)	0	100	100
2	lU	244/252 (97%)	244 (100%)	0	100	100
2	lV	243/252 (96%)	243 (100%)	0	100	100
2	lW	243/252 (96%)	243 (100%)	0	100	100
2	lX	243/252 (96%)	243 (100%)	0	100	100
2	lY	243/252 (96%)	243 (100%)	0	100	100
2	lZ	243/252 (96%)	243 (100%)	0	100	100
2	ld	243/252 (96%)	243 (100%)	0	100	100
2	le	244/252 (97%)	244 (100%)	0	100	100
2	lf	243/252 (96%)	243 (100%)	0	100	100
2	lg	243/252 (96%)	243 (100%)	0	100	100
2	lh	243/252 (96%)	243 (100%)	0	100	100
2	li	243/252 (96%)	243 (100%)	0	100	100
2	lj	243/252 (96%)	243 (100%)	0	100	100
2	lr	243/252 (96%)	243 (100%)	0	100	100
2	ls	244/252 (97%)	244 (100%)	0	100	100
2	lt	243/252 (96%)	243 (100%)	0	100	100
2	lu	243/252 (96%)	243 (100%)	0	100	100
2	lv	243/252 (96%)	243 (100%)	0	100	100
2	lw	243/252 (96%)	243 (100%)	0	100	100
2	lx	243/252 (96%)	243 (100%)	0	100	100
2	mA	243/252 (96%)	243 (100%)	0	100	100
2	mB	243/252 (96%)	243 (100%)	0	100	100
2	mJ	243/252 (96%)	243 (100%)	0	100	100
2	mK	244/252 (97%)	244 (100%)	0	100	100
2	mL	243/252 (96%)	243 (100%)	0	100	100
2	mM	243/252 (96%)	243 (100%)	0	100	100
2	mN	243/252 (96%)	243 (100%)	0	100	100
2	mO	243/252 (96%)	243 (100%)	0	100	100
2	mP	243/252 (96%)	243 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	mX	243/252 (96%)	243 (100%)	0	100	100
2	mY	244/252 (97%)	244 (100%)	0	100	100
2	mZ	243/252 (96%)	243 (100%)	0	100	100
2	mh	243/252 (96%)	243 (100%)	0	100	100
2	mi	244/252 (97%)	244 (100%)	0	100	100
2	mj	243/252 (96%)	243 (100%)	0	100	100
2	mk	243/252 (96%)	243 (100%)	0	100	100
2	ml	243/252 (96%)	243 (100%)	0	100	100
2	mm	243/252 (96%)	243 (100%)	0	100	100
2	mn	243/252 (96%)	243 (100%)	0	100	100
2	mv	243/252 (96%)	243 (100%)	0	100	100
2	mw	244/252 (97%)	244 (100%)	0	100	100
2	mx	243/252 (96%)	243 (100%)	0	100	100
2	my	243/252 (96%)	243 (100%)	0	100	100
2	mz	243/252 (96%)	243 (100%)	0	100	100
2	nA	244/252 (97%)	244 (100%)	0	100	100
2	nB	243/252 (96%)	243 (100%)	0	100	100
2	nC	243/252 (96%)	243 (100%)	0	100	100
2	nD	243/252 (96%)	243 (100%)	0	100	100
2	nE	243/252 (96%)	243 (100%)	0	100	100
2	nF	243/252 (96%)	243 (100%)	0	100	100
2	nN	243/252 (96%)	243 (100%)	0	100	100
2	nO	244/252 (97%)	244 (100%)	0	100	100
2	nP	243/252 (96%)	243 (100%)	0	100	100
2	nQ	243/252 (96%)	243 (100%)	0	100	100
2	nR	243/252 (96%)	243 (100%)	0	100	100
2	nS	243/252 (96%)	243 (100%)	0	100	100
2	nT	243/252 (96%)	243 (100%)	0	100	100
2	na	243/252 (96%)	243 (100%)	0	100	100
2	nb	243/252 (96%)	243 (100%)	0	100	100
2	nc	243/252 (96%)	243 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	nd	243/252 (96%)	243 (100%)	0	100	100
2	nl	243/252 (96%)	243 (100%)	0	100	100
2	nm	244/252 (97%)	244 (100%)	0	100	100
2	nn	243/252 (96%)	243 (100%)	0	100	100
2	no	243/252 (96%)	243 (100%)	0	100	100
2	np	243/252 (96%)	243 (100%)	0	100	100
2	nq	243/252 (96%)	243 (100%)	0	100	100
2	nr	243/252 (96%)	243 (100%)	0	100	100
2	nz	243/252 (96%)	243 (100%)	0	100	100
2	oD	243/252 (96%)	243 (100%)	0	100	100
2	oE	244/252 (97%)	244 (100%)	0	100	100
2	oF	243/252 (96%)	243 (100%)	0	100	100
2	oG	243/252 (96%)	243 (100%)	0	100	100
2	oH	243/252 (96%)	243 (100%)	0	100	100
2	oI	243/252 (96%)	243 (100%)	0	100	100
2	oJ	243/252 (96%)	243 (100%)	0	100	100
2	oR	243/252 (96%)	243 (100%)	0	100	100
2	oS	244/252 (97%)	244 (100%)	0	100	100
2	oT	243/252 (96%)	243 (100%)	0	100	100
2	oU	243/252 (96%)	243 (100%)	0	100	100
2	oV	243/252 (96%)	243 (100%)	0	100	100
2	oW	243/252 (96%)	243 (100%)	0	100	100
2	oX	243/252 (96%)	243 (100%)	0	100	100
2	ob	243/252 (96%)	243 (100%)	0	100	100
2	oc	244/252 (97%)	244 (100%)	0	100	100
2	od	243/252 (96%)	243 (100%)	0	100	100
2	oe	243/252 (96%)	243 (100%)	0	100	100
2	of	243/252 (96%)	243 (100%)	0	100	100
2	og	243/252 (96%)	243 (100%)	0	100	100
2	oh	243/252 (96%)	243 (100%)	0	100	100
2	op	243/252 (96%)	243 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	oq	244/252 (97%)	244 (100%)	0	100	100
2	or	243/252 (96%)	243 (100%)	0	100	100
2	os	243/252 (96%)	243 (100%)	0	100	100
2	ot	243/252 (96%)	243 (100%)	0	100	100
2	ou	243/252 (96%)	243 (100%)	0	100	100
2	ov	243/252 (96%)	243 (100%)	0	100	100
2	pH	243/252 (96%)	243 (100%)	0	100	100
2	pI	244/252 (97%)	244 (100%)	0	100	100
2	pJ	243/252 (96%)	243 (100%)	0	100	100
2	pK	243/252 (96%)	243 (100%)	0	100	100
2	pL	243/252 (96%)	243 (100%)	0	100	100
2	pM	243/252 (96%)	243 (100%)	0	100	100
2	pN	243/252 (96%)	243 (100%)	0	100	100
2	pV	243/252 (96%)	243 (100%)	0	100	100
2	pW	244/252 (97%)	244 (100%)	0	100	100
2	pX	243/252 (96%)	243 (100%)	0	100	100
2	pY	243/252 (96%)	243 (100%)	0	100	100
2	pZ	243/252 (96%)	243 (100%)	0	100	100
2	pf	243/252 (96%)	243 (100%)	0	100	100
2	pg	244/252 (97%)	244 (100%)	0	100	100
2	ph	243/252 (96%)	243 (100%)	0	100	100
2	pi	243/252 (96%)	243 (100%)	0	100	100
2	pj	243/252 (96%)	243 (100%)	0	100	100
2	pk	243/252 (96%)	243 (100%)	0	100	100
2	pl	243/252 (96%)	243 (100%)	0	100	100
2	pt	243/252 (96%)	243 (100%)	0	100	100
2	pu	244/252 (97%)	244 (100%)	0	100	100
2	pV	243/252 (96%)	243 (100%)	0	100	100
2	pW	243/252 (96%)	243 (100%)	0	100	100
2	pX	243/252 (96%)	243 (100%)	0	100	100
2	py	243/252 (96%)	243 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	pz	243/252 (96%)	243 (100%)	0	100	100
2	qa	243/252 (96%)	243 (100%)	0	100	100
2	qb	243/252 (96%)	243 (100%)	0	100	100
3	qd	104/124 (84%)	104 (100%)	0	100	100
3	qe	104/124 (84%)	104 (100%)	0	100	100
3	qf	104/124 (84%)	104 (100%)	0	100	100
3	qg	104/124 (84%)	104 (100%)	0	100	100
3	qh	104/124 (84%)	104 (100%)	0	100	100
3	qi	104/124 (84%)	104 (100%)	0	100	100
4	qj	195/198 (98%)	195 (100%)	0	100	100
4	qk	195/198 (98%)	195 (100%)	0	100	100
4	ql	195/198 (98%)	195 (100%)	0	100	100
4	qm	195/198 (98%)	195 (100%)	0	100	100
4	qn	195/198 (98%)	195 (100%)	0	100	100
4	qo	195/198 (98%)	195 (100%)	0	100	100
5	qB	323/417 (78%)	323 (100%)	0	100	100
5	qD	323/417 (78%)	323 (100%)	0	100	100
5	qF	323/417 (78%)	323 (100%)	0	100	100
5	qH	323/417 (78%)	323 (100%)	0	100	100
5	qJ	323/417 (78%)	323 (100%)	0	100	100
5	qL	323/417 (78%)	323 (100%)	0	100	100
5	qp	323/417 (78%)	323 (100%)	0	100	100
5	qr	323/417 (78%)	323 (100%)	0	100	100
5	qt	323/417 (78%)	323 (100%)	0	100	100
5	qv	323/417 (78%)	323 (100%)	0	100	100
5	qx	323/417 (78%)	323 (100%)	0	100	100
5	qz	323/417 (78%)	323 (100%)	0	100	100
6	qA	113/114 (99%)	113 (100%)	0	100	100
6	qC	113/114 (99%)	113 (100%)	0	100	100
6	qE	113/114 (99%)	113 (100%)	0	100	100
6	qG	113/114 (99%)	113 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	qI	113/114 (99%)	113 (100%)	0	100	100
6	qK	113/114 (99%)	113 (100%)	0	100	100
6	qM	113/114 (99%)	113 (100%)	0	100	100
6	qq	113/114 (99%)	113 (100%)	0	100	100
6	qs	113/114 (99%)	113 (100%)	0	100	100
6	qu	113/114 (99%)	113 (100%)	0	100	100
6	qw	113/114 (99%)	113 (100%)	0	100	100
6	qy	113/114 (99%)	113 (100%)	0	100	100
All	All	127246/151944 (84%)	127246 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (870) such sidechains are listed below:

Mol	Chain	Res	Type
2	ag	202	GLN
2	ag	238	ASN
2	ah	126	ASN
2	ai	235	ASN
2	aj	218	ASN
2	ak	17	GLN
2	ak	62	GLN
2	al	128	ASN
2	al	235	ASN
2	am	235	ASN
2	am	291	ASN
2	au	45	ASN
2	au	202	GLN
2	au	238	ASN
2	av	235	ASN
2	aw	185	GLN
2	aw	218	ASN
2	ax	17	GLN
2	ax	62	GLN
2	ax	235	ASN
2	ay	128	ASN
2	az	235	ASN
2	az	291	ASN
2	aH	45	ASN

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Mol	Chain	Res	Type
2	aH	202	GLN
2	aH	238	ASN
2	aI	126	ASN
2	aJ	17	GLN
2	aJ	235	ASN
2	aK	185	GLN
2	aK	218	ASN
2	aL	17	GLN
2	aL	62	GLN
2	aM	128	ASN
2	aN	235	ASN
2	aN	291	ASN
2	aV	45	ASN
2	aV	202	GLN
2	aV	238	ASN
2	aW	126	ASN
2	aX	235	ASN
2	aY	185	GLN
2	aY	218	ASN
2	aY	236	GLN
2	aZ	17	GLN
2	aZ	62	GLN
2	aZ	235	ASN
2	ba	128	ASN
2	ba	235	ASN
2	bj	45	ASN
2	bj	202	GLN
2	bj	238	ASN
2	bk	126	ASN
2	bk	235	ASN
2	bl	17	GLN
2	bl	235	ASN
2	bm	185	GLN
2	bm	218	ASN
2	bn	17	GLN
2	bn	62	GLN
2	bn	235	ASN
2	bo	128	ASN
2	bo	235	ASN
2	bx	45	ASN
2	bx	202	GLN
2	bx	238	ASN

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Mol	Chain	Res	Type
2	by	126	ASN
2	by	235	ASN
2	bz	235	ASN
2	bA	185	GLN
2	bA	218	ASN
2	bB	17	GLN
2	bB	62	GLN
2	bC	128	ASN
2	bC	235	ASN
2	bD	235	ASN
2	bD	291	ASN
2	bL	202	GLN
2	bL	238	ASN
2	bM	126	ASN
2	bM	235	ASN
2	bM	238	ASN
2	bN	218	ASN
2	bN	236	GLN
2	bO	17	GLN
2	bO	62	GLN
2	bP	128	ASN
2	bP	235	ASN
2	bQ	235	ASN
2	bQ	291	ASN
2	bY	45	ASN
2	bY	202	GLN
2	bY	238	ASN
2	bZ	126	ASN
2	ca	235	ASN
2	cb	185	GLN
2	cb	218	ASN
2	cc	17	GLN
2	cc	62	GLN
2	cd	128	ASN
2	ce	235	ASN
2	ce	291	ASN
2	cm	45	ASN
2	cm	202	GLN
2	cm	238	ASN
2	cn	126	ASN
2	co	235	ASN
2	cp	185	GLN

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Mol	Chain	Res	Type
2	cp	218	ASN
2	cp	236	GLN
2	cq	17	GLN
2	cq	62	GLN
2	cr	128	ASN
2	cs	235	ASN
2	cs	291	ASN
2	cA	45	ASN
2	cA	202	GLN
2	cA	238	ASN
2	cB	126	ASN
2	cC	235	ASN
2	cD	185	GLN
2	cD	218	ASN
2	cD	236	GLN
2	cE	17	GLN
2	cE	62	GLN
2	cF	128	ASN
2	cF	235	ASN
2	cG	235	ASN
2	cG	291	ASN
2	cO	202	GLN
2	cO	238	ASN
2	cP	126	ASN
2	cQ	235	ASN
2	cR	185	GLN
2	cR	218	ASN
2	cS	17	GLN
2	cS	62	GLN
2	cT	128	ASN
2	dc	45	ASN
2	dc	202	GLN
2	dc	238	ASN
2	dd	126	ASN
2	dd	235	ASN
2	de	235	ASN
2	df	185	GLN
2	df	218	ASN
2	dg	17	GLN
2	dg	62	GLN
2	dh	128	ASN
2	dh	135	ASN

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Mol	Chain	Res	Type
2	di	235	ASN
2	di	291	ASN
2	dq	45	ASN
2	dq	202	GLN
2	dq	238	ASN
2	dr	126	ASN
2	dr	235	ASN
2	ds	235	ASN
2	dt	185	GLN
2	dt	218	ASN
2	du	17	GLN
2	du	62	GLN
2	du	235	ASN
2	dv	19	HIS
2	dv	128	ASN
2	dw	235	ASN
2	dw	291	ASN
2	dE	45	ASN
2	dE	202	GLN
2	dE	238	ASN
2	dF	126	ASN
2	dF	235	ASN
2	dG	235	ASN
2	dH	185	GLN
2	dH	218	ASN
2	dI	17	GLN
2	dI	62	GLN
2	dI	235	ASN
2	dJ	128	ASN
2	dJ	235	ASN
2	dK	235	ASN
2	dK	291	ASN
2	dS	45	ASN
2	dS	202	GLN
2	dS	238	ASN
2	dT	126	ASN
2	dT	235	ASN
2	dU	235	ASN
2	dV	185	GLN
2	dV	218	ASN
2	dW	17	GLN
2	dW	62	GLN

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Mol	Chain	Res	Type
2	dW	235	ASN
2	dX	128	ASN
2	dX	235	ASN
2	dY	235	ASN
2	dY	291	ASN
2	eg	45	ASN
2	eg	202	GLN
2	eg	238	ASN
2	eh	126	ASN
2	eh	235	ASN
2	ei	235	ASN
2	ej	185	GLN
2	ej	218	ASN
2	ek	17	GLN
2	ek	62	GLN
2	el	128	ASN
2	el	235	ASN
2	eu	45	ASN
2	eu	202	GLN
2	eu	238	ASN
2	ev	126	ASN
2	ev	235	ASN
2	ew	235	ASN
2	ex	185	GLN
2	ex	218	ASN
2	ex	236	GLN
2	ey	17	GLN
2	ey	62	GLN
2	ez	128	ASN
2	ez	235	ASN
2	eI	45	ASN
2	eI	202	GLN
2	eI	238	ASN
2	eI	304	ASN
2	eJ	126	ASN
2	eK	235	ASN
2	eL	185	GLN
2	eL	218	ASN
2	eM	17	GLN
2	eM	62	GLN
2	eN	128	ASN
2	eO	235	ASN

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Mol	Chain	Res	Type
2	eO	291	ASN
2	eW	45	ASN
2	eW	202	GLN
2	eW	238	ASN
2	eX	126	ASN
2	eX	235	ASN
2	eY	235	ASN
2	eZ	218	ASN
2	eZ	236	GLN
2	fa	17	GLN
2	fa	62	GLN
2	fa	235	ASN
2	fb	128	ASN
2	fb	235	ASN
2	fc	235	ASN
2	fc	291	ASN
2	fk	45	ASN
2	fk	202	GLN
2	fk	238	ASN
2	fl	126	ASN
2	fl	235	ASN
2	fm	235	ASN
2	fn	185	GLN
2	fn	218	ASN
2	fn	236	GLN
2	fo	17	GLN
2	fo	62	GLN
2	fo	235	ASN
2	fp	128	ASN
2	fp	235	ASN
2	fq	235	ASN
2	fq	291	ASN
2	fy	45	ASN
2	fy	202	GLN
2	fy	238	ASN
2	fz	126	ASN
2	fA	235	ASN
2	fB	185	GLN
2	fB	218	ASN
2	fC	17	GLN
2	fC	62	GLN
2	fC	235	ASN

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Mol	Chain	Res	Type
2	fD	128	ASN
2	fD	235	ASN
2	fE	235	ASN
2	fE	291	ASN
2	fM	45	ASN
2	fM	202	GLN
2	fM	238	ASN
2	fN	126	ASN
2	fO	235	ASN
2	fP	218	ASN
2	fP	236	GLN
2	fQ	17	GLN
2	fQ	62	GLN
2	fQ	235	ASN
2	fR	235	ASN
2	fS	235	ASN
2	fS	291	ASN
2	ga	45	ASN
2	ga	238	ASN
2	gb	126	ASN
2	gc	235	ASN
2	gd	185	GLN
2	gd	218	ASN
2	ge	17	GLN
2	ge	62	GLN
2	gf	128	ASN
2	gf	235	ASN
2	gg	235	ASN
2	gg	291	ASN
2	go	45	ASN
2	go	202	GLN
2	go	238	ASN
2	gp	126	ASN
2	gp	235	ASN
2	gq	235	ASN
2	gq	238	ASN
2	gr	185	GLN
2	gr	218	ASN
2	gs	17	GLN
2	gs	62	GLN
2	gt	128	ASN
2	gt	235	ASN

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Mol	Chain	Res	Type
2	gC	238	ASN
2	gD	126	ASN
2	gD	235	ASN
2	gE	235	ASN
2	gF	185	GLN
2	gF	218	ASN
2	gG	17	GLN
2	gG	62	GLN
2	gG	235	ASN
2	gH	128	ASN
2	gQ	45	ASN
2	gQ	202	GLN
2	gQ	238	ASN
2	gR	126	ASN
2	gR	235	ASN
2	gS	235	ASN
2	gT	185	GLN
2	gT	218	ASN
2	gT	236	GLN
2	gU	17	GLN
2	gU	62	GLN
2	gV	128	ASN
2	gV	135	ASN
2	gV	235	ASN
2	gW	235	ASN
2	gW	291	ASN
2	he	45	ASN
2	he	135	ASN
2	he	202	GLN
2	he	238	ASN
2	hf	126	ASN
2	hf	235	ASN
2	hg	235	ASN
2	hg	238	ASN
2	hh	185	GLN
2	hh	218	ASN
2	hi	17	GLN
2	hi	62	GLN
2	hj	128	ASN
2	hj	235	ASN
2	hk	235	ASN
2	hk	291	ASN

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Mol	Chain	Res	Type
2	hs	45	ASN
2	hs	104	GLN
2	hs	202	GLN
2	hs	238	ASN
2	ht	235	ASN
2	hu	185	GLN
2	hu	218	ASN
2	hu	236	GLN
2	hv	17	GLN
2	hv	62	GLN
2	hw	128	ASN
2	hw	235	ASN
2	hF	202	GLN
2	hF	238	ASN
2	hG	235	ASN
2	hH	185	GLN
2	hH	218	ASN
2	hI	17	GLN
2	hI	62	GLN
2	hI	235	ASN
2	hJ	128	ASN
2	hJ	235	ASN
2	hK	95	ASN
2	hS	45	ASN
2	hS	202	GLN
2	hS	238	ASN
2	hT	126	ASN
2	hU	235	ASN
2	hU	238	ASN
2	hV	185	GLN
2	hV	218	ASN
2	hV	236	GLN
2	hW	17	GLN
2	hW	62	GLN
2	hX	128	ASN
2	hX	235	ASN
2	ig	45	ASN
2	ig	202	GLN
2	ig	238	ASN
2	ih	126	ASN
2	ih	235	ASN
2	ii	235	ASN

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Mol	Chain	Res	Type
2	ii	238	ASN
2	ij	185	GLN
2	ij	218	ASN
2	ik	17	GLN
2	ik	62	GLN
2	il	128	ASN
2	il	235	ASN
2	im	235	ASN
2	im	291	ASN
2	iu	45	ASN
2	iu	202	GLN
2	iu	238	ASN
2	iv	126	ASN
2	iw	235	ASN
2	ix	185	GLN
2	ix	218	ASN
2	ix	236	GLN
2	iy	17	GLN
2	iy	62	GLN
2	iz	128	ASN
2	iz	235	ASN
2	iA	235	ASN
2	iA	291	ASN
2	iI	45	ASN
2	iI	202	GLN
2	iI	238	ASN
2	iJ	126	ASN
2	iJ	235	ASN
2	iK	235	ASN
2	iL	185	GLN
2	iL	218	ASN
2	iL	236	GLN
2	iM	17	GLN
2	iM	62	GLN
2	iM	235	ASN
2	iN	128	ASN
2	iN	235	ASN
2	iO	235	ASN
2	iO	291	ASN
2	iW	45	ASN
2	iW	202	GLN
2	iW	238	ASN

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Mol	Chain	Res	Type
2	iX	126	ASN
2	iY	235	ASN
2	iZ	185	GLN
2	iZ	218	ASN
2	iZ	236	GLN
2	ja	17	GLN
2	ja	62	GLN
2	jb	128	ASN
2	jk	45	ASN
2	jk	202	GLN
2	jk	238	ASN
2	jl	126	ASN
2	jm	235	ASN
2	jn	185	GLN
2	jn	218	ASN
2	jo	17	GLN
2	jo	62	GLN
2	jp	128	ASN
2	jq	235	ASN
2	jq	291	ASN
2	jy	202	GLN
2	jy	238	ASN
2	jz	126	ASN
2	jA	235	ASN
2	jB	185	GLN
2	jB	218	ASN
2	jB	236	GLN
2	jC	17	GLN
2	jC	62	GLN
2	jC	235	ASN
2	jD	128	ASN
2	jD	235	ASN
2	jE	235	ASN
2	jE	291	ASN
2	jM	45	ASN
2	jM	238	ASN
2	jN	126	ASN
2	jO	235	ASN
2	jP	185	GLN
2	jP	218	ASN
2	jQ	17	GLN
2	jQ	62	GLN

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Mol	Chain	Res	Type
2	jR	128	ASN
2	jR	235	ASN
2	jS	235	ASN
2	jS	291	ASN
2	ka	45	ASN
2	ka	202	GLN
2	ka	238	ASN
2	kb	126	ASN
2	kc	235	ASN
2	kd	185	GLN
2	kd	218	ASN
2	kd	236	GLN
2	ke	17	GLN
2	ke	62	GLN
2	ke	235	ASN
2	kf	128	ASN
2	kf	235	ASN
2	kg	235	ASN
2	kg	291	ASN
2	ko	45	ASN
2	ko	104	GLN
2	ko	202	GLN
2	ko	238	ASN
2	kp	235	ASN
2	kq	185	GLN
2	kq	218	ASN
2	kq	236	GLN
2	kr	17	GLN
2	kr	62	GLN
2	ks	128	ASN
2	ks	235	ASN
2	kt	235	ASN
2	kt	291	ASN
2	kB	45	ASN
2	kB	202	GLN
2	kB	238	ASN
2	kC	126	ASN
2	kD	235	ASN
2	kE	185	GLN
2	kE	218	ASN
2	kF	17	GLN
2	kF	62	GLN

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Mol	Chain	Res	Type
2	kG	128	ASN
2	kG	235	ASN
2	kH	235	ASN
2	kH	291	ASN
2	kP	45	ASN
2	kP	202	GLN
2	kP	238	ASN
2	kQ	126	ASN
2	kR	235	ASN
2	kS	185	GLN
2	kS	218	ASN
2	kT	17	GLN
2	kT	62	GLN
2	kU	128	ASN
2	kU	235	ASN
2	kV	235	ASN
2	kV	291	ASN
2	ld	45	ASN
2	ld	202	GLN
2	ld	238	ASN
2	le	126	ASN
2	lf	235	ASN
2	lg	185	GLN
2	lg	218	ASN
2	lh	17	GLN
2	lh	62	GLN
2	li	128	ASN
2	lr	45	ASN
2	lr	202	GLN
2	lr	238	ASN
2	ls	126	ASN
2	ls	235	ASN
2	lt	235	ASN
2	lu	185	GLN
2	lu	218	ASN
2	lv	17	GLN
2	lv	62	GLN
2	lw	128	ASN
2	lx	235	ASN
2	lx	291	ASN
2	lF	45	ASN
2	lF	202	GLN

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Mol	Chain	Res	Type
2	lF	238	ASN
2	lG	126	ASN
2	lH	235	ASN
2	lI	185	GLN
2	lI	218	ASN
2	lJ	17	GLN
2	lJ	62	GLN
2	lJ	235	ASN
2	lK	128	ASN
2	lK	235	ASN
2	lL	235	ASN
2	lL	291	ASN
2	lT	45	ASN
2	lT	238	ASN
2	lU	126	ASN
2	lV	235	ASN
2	lW	185	GLN
2	lW	218	ASN
2	lX	17	GLN
2	lX	62	GLN
2	lX	235	ASN
2	lY	128	ASN
2	lY	235	ASN
2	lZ	235	ASN
2	lZ	291	ASN
2	mh	45	ASN
2	mh	202	GLN
2	mh	238	ASN
2	mi	126	ASN
2	mj	235	ASN
2	mk	218	ASN
2	ml	17	GLN
2	ml	62	GLN
2	mm	128	ASN
2	mm	235	ASN
2	mn	235	ASN
2	mn	291	ASN
2	mv	45	ASN
2	mv	238	ASN
2	mw	126	ASN
2	mx	235	ASN
2	my	185	GLN

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Mol	Chain	Res	Type
2	my	218	ASN
2	my	236	GLN
2	mz	17	GLN
2	mz	62	GLN
2	mA	128	ASN
2	mA	235	ASN
2	mJ	45	ASN
2	mJ	202	GLN
2	mJ	238	ASN
2	mK	126	ASN
2	mK	235	ASN
2	mL	235	ASN
2	mM	185	GLN
2	mM	218	ASN
2	mN	17	GLN
2	mN	62	GLN
2	mO	128	ASN
2	mX	45	ASN
2	mX	202	GLN
2	mX	238	ASN
2	mY	126	ASN
2	mZ	235	ASN
2	na	185	GLN
2	na	218	ASN
2	nb	17	GLN
2	nb	62	GLN
2	nc	128	ASN
2	nc	235	ASN
2	nd	235	ASN
2	nd	291	ASN
2	nl	45	ASN
2	nl	238	ASN
2	nm	126	ASN
2	nm	235	ASN
2	nn	235	ASN
2	no	218	ASN
2	np	17	GLN
2	np	62	GLN
2	nq	128	ASN
2	nz	45	ASN
2	nz	202	GLN
2	nz	238	ASN

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Mol	Chain	Res	Type
2	nA	126	ASN
2	nB	235	ASN
2	nC	218	ASN
2	nD	17	GLN
2	nD	62	GLN
2	nE	128	ASN
2	nF	235	ASN
2	nF	291	ASN
2	nN	45	ASN
2	nN	202	GLN
2	nN	238	ASN
2	nO	126	ASN
2	nO	235	ASN
2	nP	17	GLN
2	nP	235	ASN
2	nQ	218	ASN
2	nQ	236	GLN
2	nR	17	GLN
2	nR	62	GLN
2	nS	128	ASN
2	ob	45	ASN
2	ob	202	GLN
2	ob	238	ASN
2	oc	126	ASN
2	od	235	ASN
2	oe	185	GLN
2	oe	218	ASN
2	of	17	GLN
2	of	62	GLN
2	og	128	ASN
2	oh	235	ASN
2	oh	291	ASN
2	op	45	ASN
2	op	202	GLN
2	op	238	ASN
2	oq	126	ASN
2	or	235	ASN
2	os	218	ASN
2	ot	17	GLN
2	ot	62	GLN
2	ou	128	ASN
2	ov	235	ASN

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Mol	Chain	Res	Type
2	ov	291	ASN
2	oD	45	ASN
2	oD	202	GLN
2	oD	238	ASN
2	oE	126	ASN
2	oE	235	ASN
2	oF	235	ASN
2	oG	185	GLN
2	oG	218	ASN
2	oH	17	GLN
2	oH	62	GLN
2	oH	235	ASN
2	oI	128	ASN
2	oI	235	ASN
2	oJ	235	ASN
2	oJ	291	ASN
2	oR	45	ASN
2	oR	202	GLN
2	oR	238	ASN
2	oS	126	ASN
2	oS	235	ASN
2	oT	235	ASN
2	oU	185	GLN
2	oU	218	ASN
2	oU	236	GLN
2	oV	17	GLN
2	oV	62	GLN
2	oV	235	ASN
2	oW	128	ASN
2	oW	235	ASN
2	oX	235	ASN
2	oX	291	ASN
2	pf	45	ASN
2	pf	202	GLN
2	pf	238	ASN
2	pg	126	ASN
2	ph	17	GLN
2	ph	235	ASN
2	pi	185	GLN
2	pi	218	ASN
2	pj	17	GLN
2	pj	62	GLN

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Mol	Chain	Res	Type
2	pk	128	ASN
2	pk	235	ASN
2	pt	45	ASN
2	pt	238	ASN
2	pu	126	ASN
2	pv	17	GLN
2	pv	235	ASN
2	pw	185	GLN
2	pw	218	ASN
2	px	17	GLN
2	px	62	GLN
2	py	128	ASN
2	py	235	ASN
2	pH	45	ASN
2	pH	202	GLN
2	pH	238	ASN
2	pI	126	ASN
2	pJ	235	ASN
2	pJ	238	ASN
2	pK	185	GLN
2	pK	218	ASN
2	pL	17	GLN
2	pL	62	GLN
2	pM	128	ASN
2	pN	235	ASN
2	pN	291	ASN
2	pV	45	ASN
2	pV	202	GLN
2	pV	238	ASN
2	pW	126	ASN
2	pX	235	ASN
2	pY	185	GLN
2	pY	218	ASN
2	pZ	17	GLN
2	pZ	62	GLN
2	qa	128	ASN
4	qj	10	GLN
4	qj	223	ASN
4	qk	10	GLN
4	qk	223	ASN
4	ql	10	GLN
4	ql	223	ASN

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Mol	Chain	Res	Type
4	qm	10	GLN
4	qm	223	ASN
4	qn	10	GLN
4	qn	223	ASN
4	qo	10	GLN
4	qo	223	ASN
5	qp	34	GLN
5	qp	169	ASN
5	qp	217	HIS
5	qp	311	GLN
5	qp	323	HIS
6	qq	53	HIS
6	qq	105	ASN
5	qr	169	ASN
5	qr	176	ASN
5	qr	217	HIS
5	qr	311	GLN
5	qr	323	HIS
6	qs	53	HIS
6	qs	105	ASN
5	qt	54	GLN
5	qt	58	GLN
5	qt	169	ASN
5	qt	176	ASN
5	qt	217	HIS
5	qt	311	GLN
5	qt	323	HIS
6	qu	53	HIS
6	qu	105	ASN
5	qv	169	ASN
5	qv	217	HIS
5	qv	311	GLN
5	qv	323	HIS
6	qw	53	HIS
6	qw	105	ASN
5	qx	54	GLN
5	qx	169	ASN
5	qx	217	HIS
5	qx	311	GLN
5	qx	323	HIS
6	qy	53	HIS
6	qy	105	ASN

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Mol	Chain	Res	Type
5	qz	34	GLN
5	qz	58	GLN
5	qz	169	ASN
5	qz	176	ASN
5	qz	217	HIS
5	qz	311	GLN
5	qz	323	HIS
6	qA	53	HIS
6	qA	105	ASN
5	qB	154	HIS
5	qB	169	ASN
5	qB	176	ASN
5	qB	217	HIS
5	qB	311	GLN
5	qB	323	HIS
6	qC	53	HIS
6	qC	105	ASN
5	qD	169	ASN
5	qD	217	HIS
5	qD	311	GLN
5	qD	323	HIS
6	qE	53	HIS
6	qE	105	ASN
5	qF	56	ASN
5	qF	169	ASN
5	qF	176	ASN
5	qF	217	HIS
5	qF	323	HIS
6	qG	53	HIS
6	qG	105	ASN
5	qH	169	ASN
5	qH	176	ASN
5	qH	217	HIS
5	qH	323	HIS
6	qI	53	HIS
6	qI	105	ASN
5	qJ	217	HIS
5	qJ	311	GLN
5	qJ	323	HIS
6	qK	53	HIS
6	qK	105	ASN
5	qL	54	GLN

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Mol	Chain	Res	Type
5	qL	169	ASN
5	qL	217	HIS
5	qL	311	GLN
5	qL	323	HIS
6	qM	53	HIS
6	qM	105	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

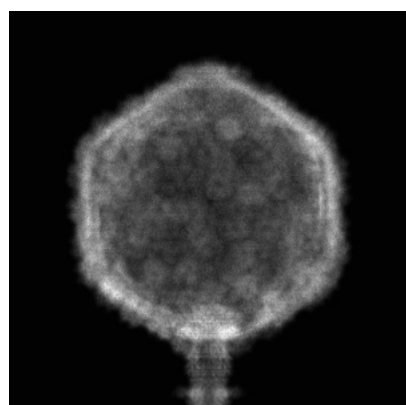
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-19439. These allow visual inspection of the internal detail of the map and identification of artifacts.

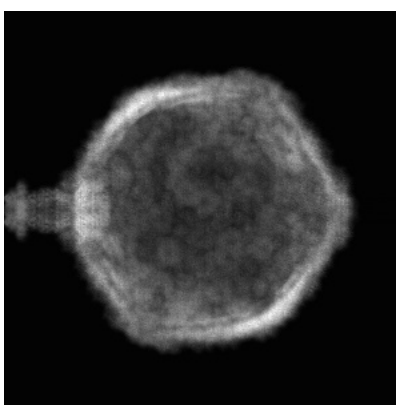
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

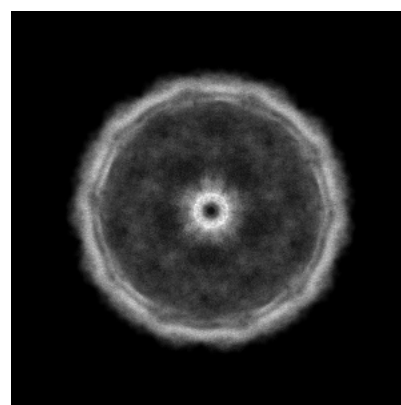
6.1.1 Primary map



X



Y



Z

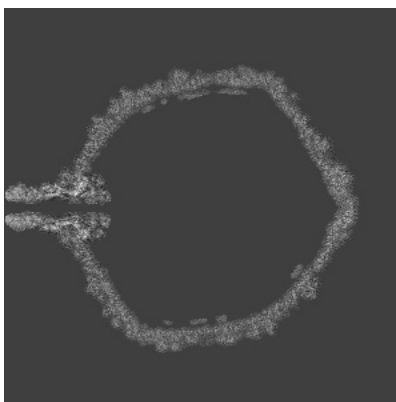
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

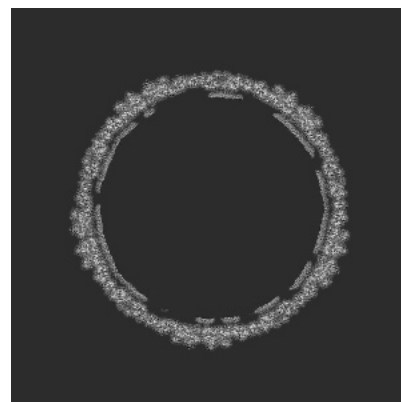
6.2.1 Primary map



X Index: 420



Y Index: 420

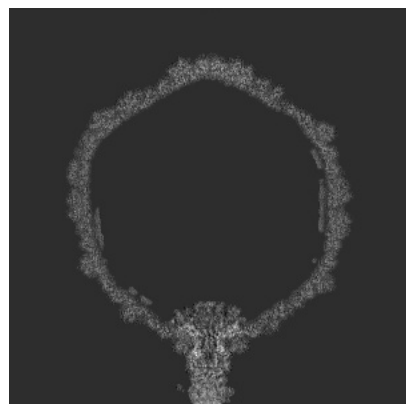


Z Index: 420

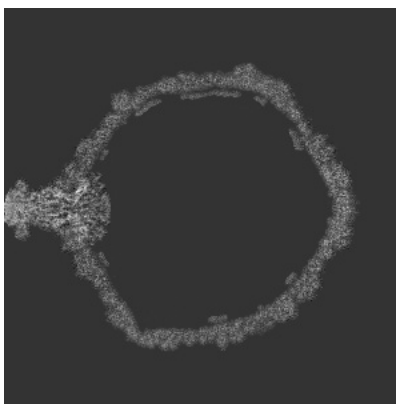
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

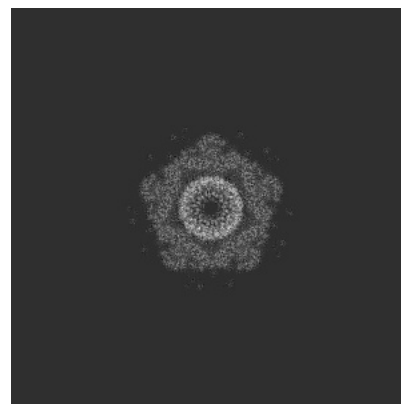
6.3.1 Primary map



X Index: 442



Y Index: 443

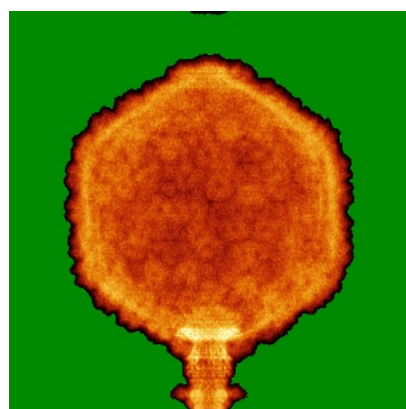


Z Index: 169

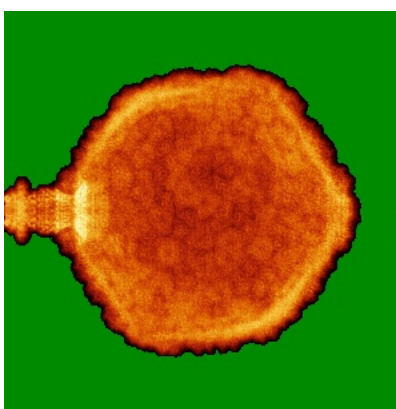
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

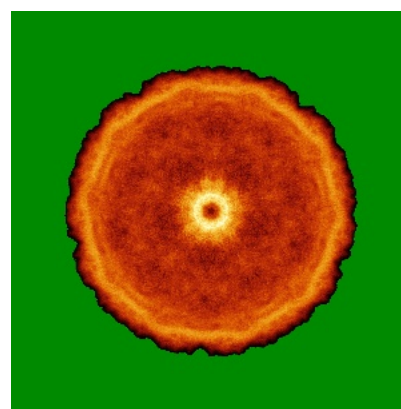
6.4.1 Primary map



X



Y

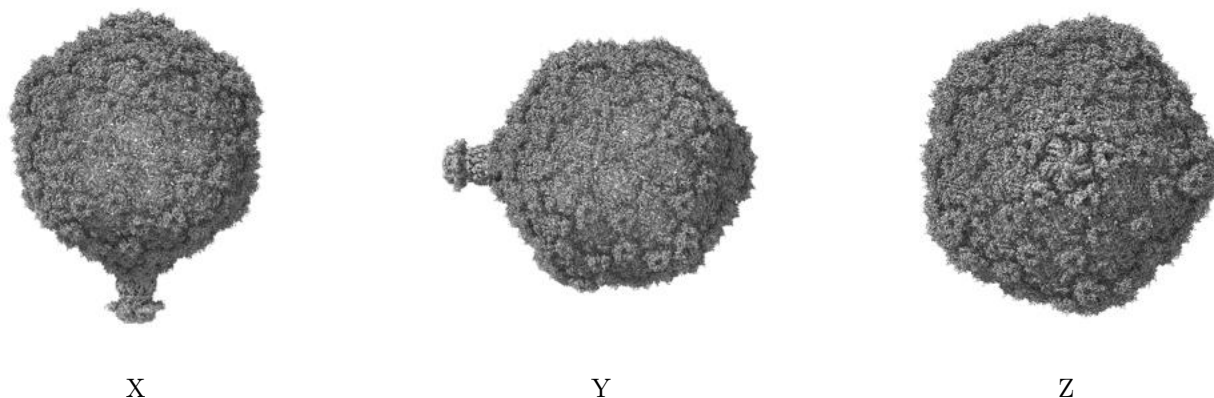


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.013. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

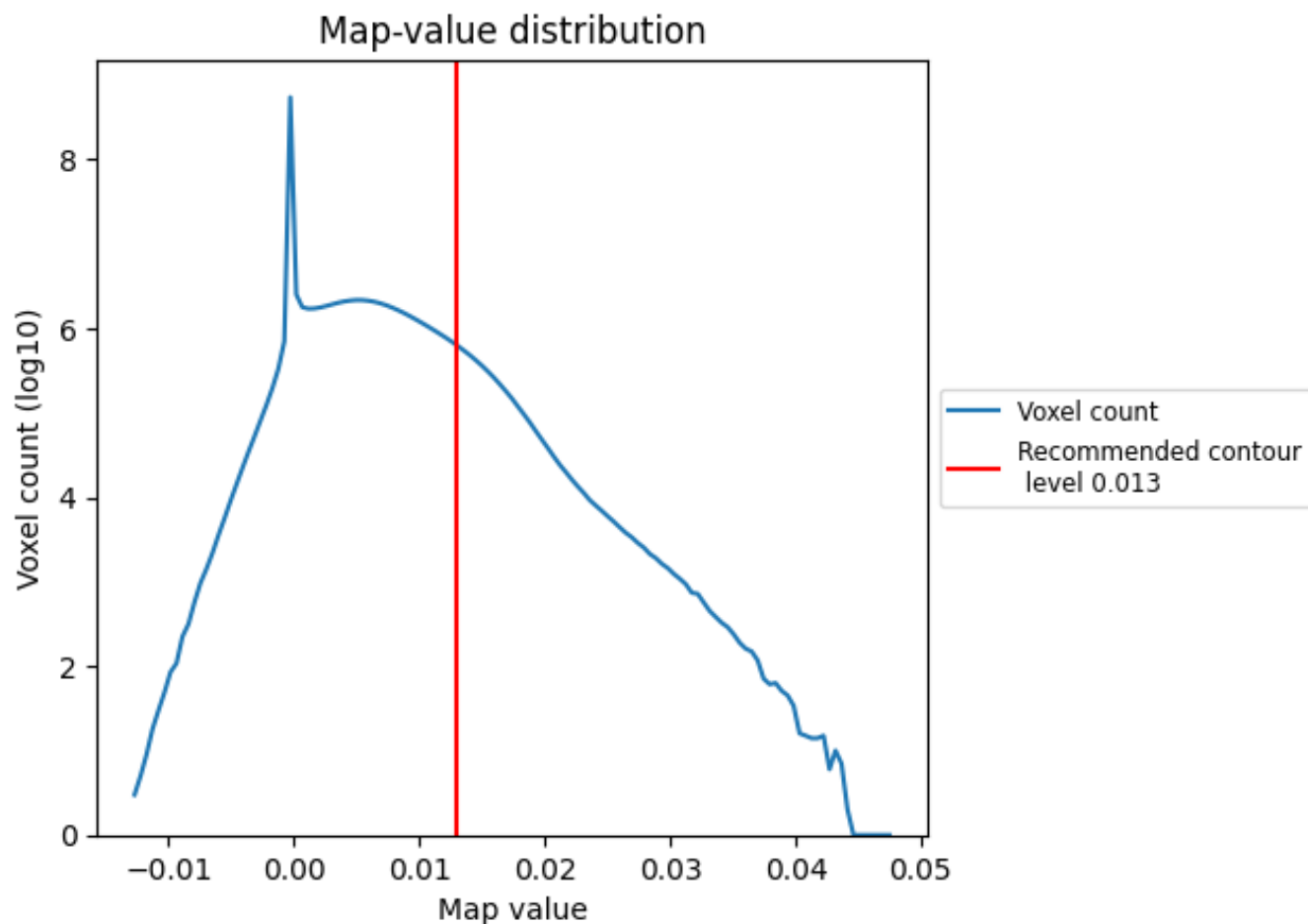
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

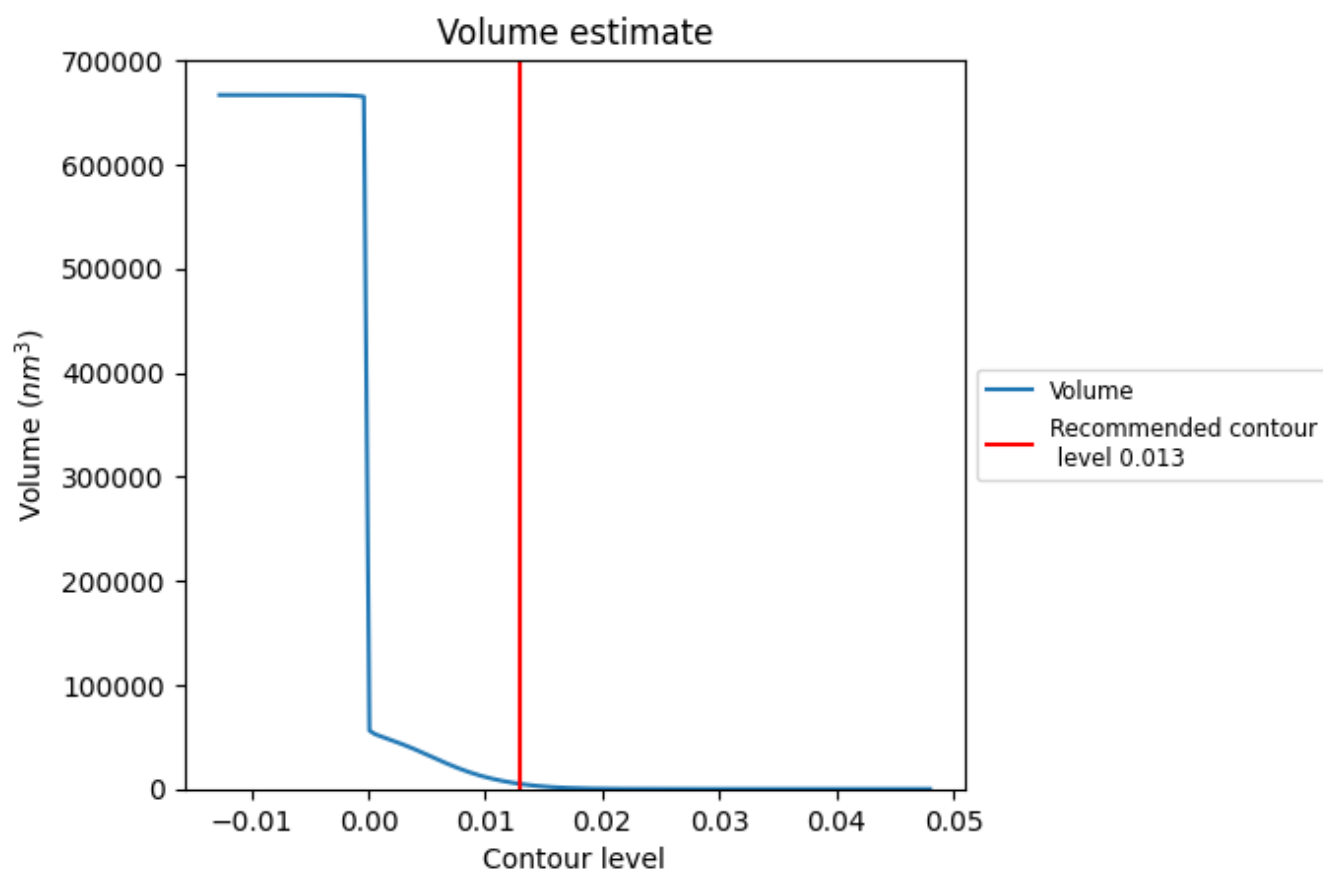
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

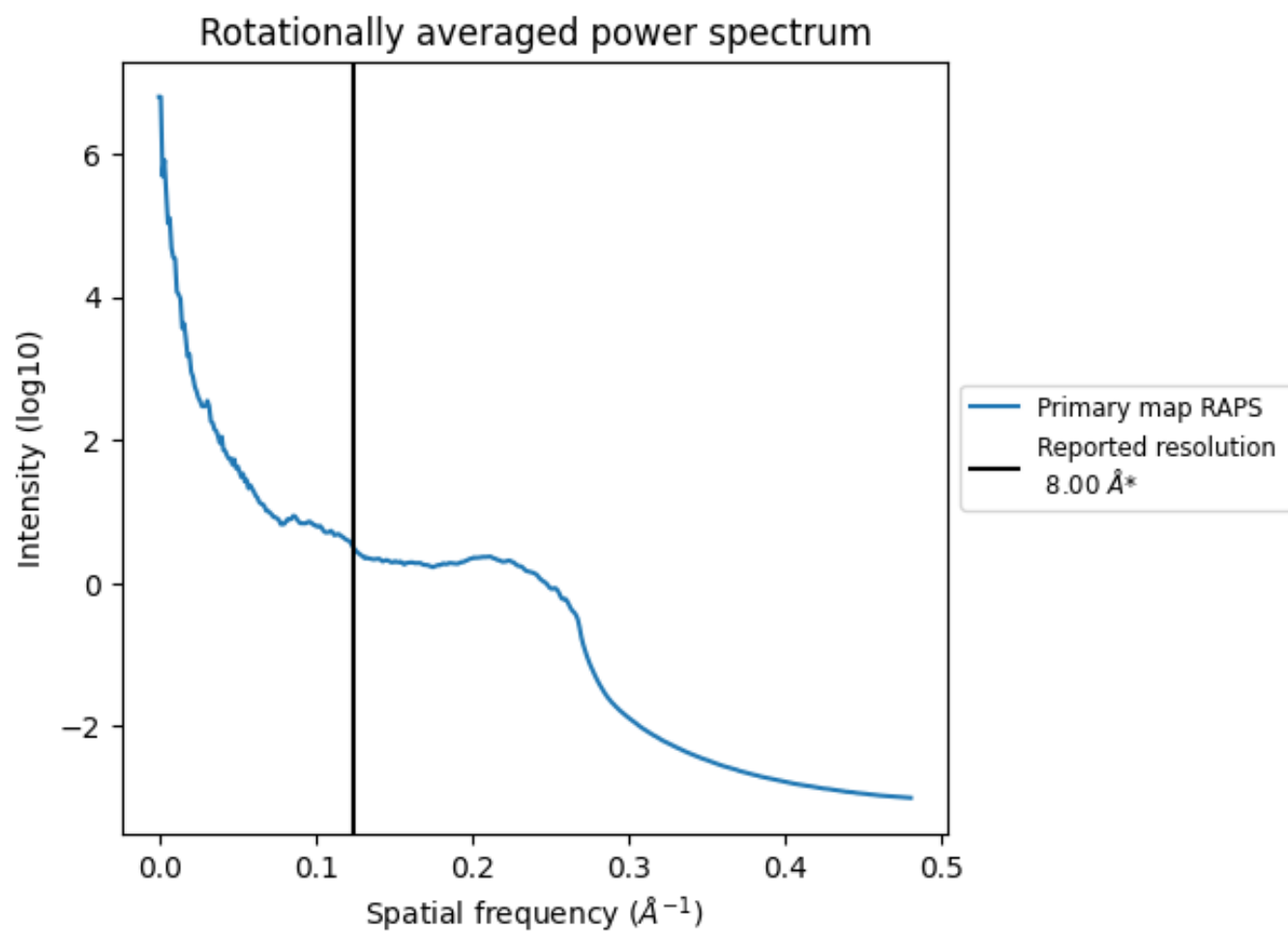
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 4824 nm³; this corresponds to an approximate mass of 4358 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.125 Å⁻¹

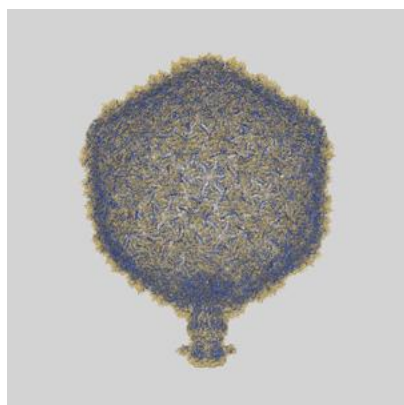
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

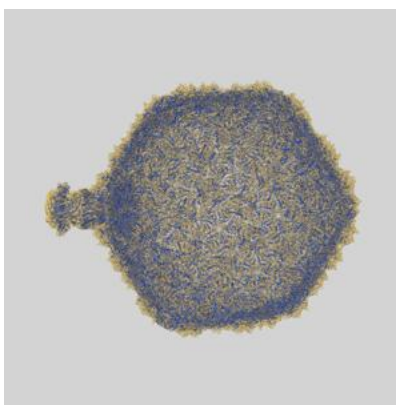
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-19439 and PDB model 8RQE. Per-residue inclusion information can be found in section 3 on page 81.

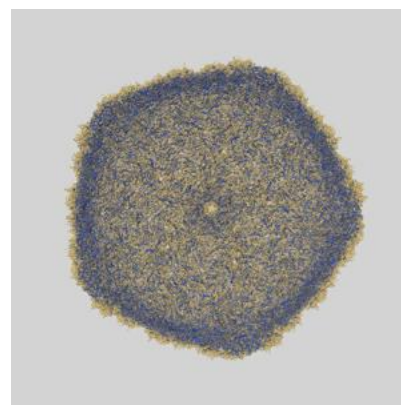
9.1 Map-model overlay [i](#)



X



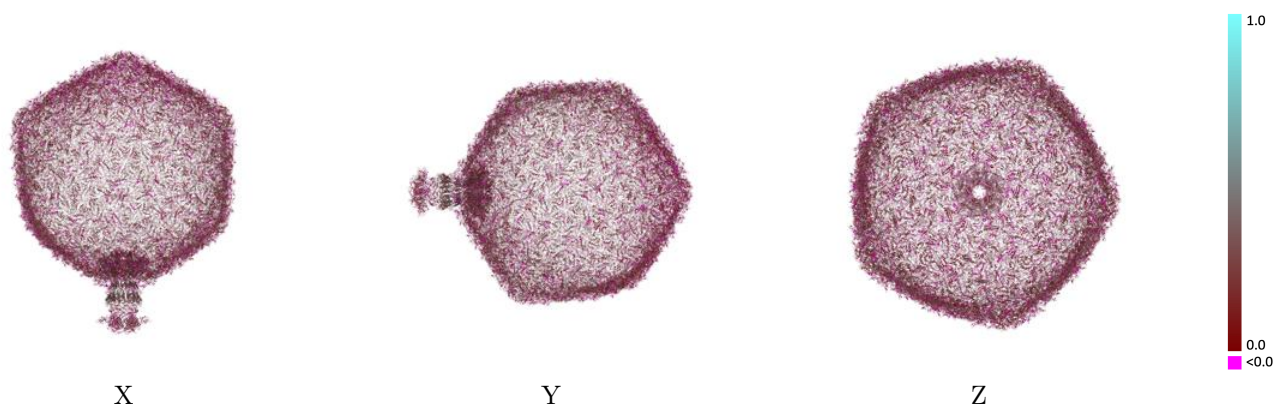
Y



Z

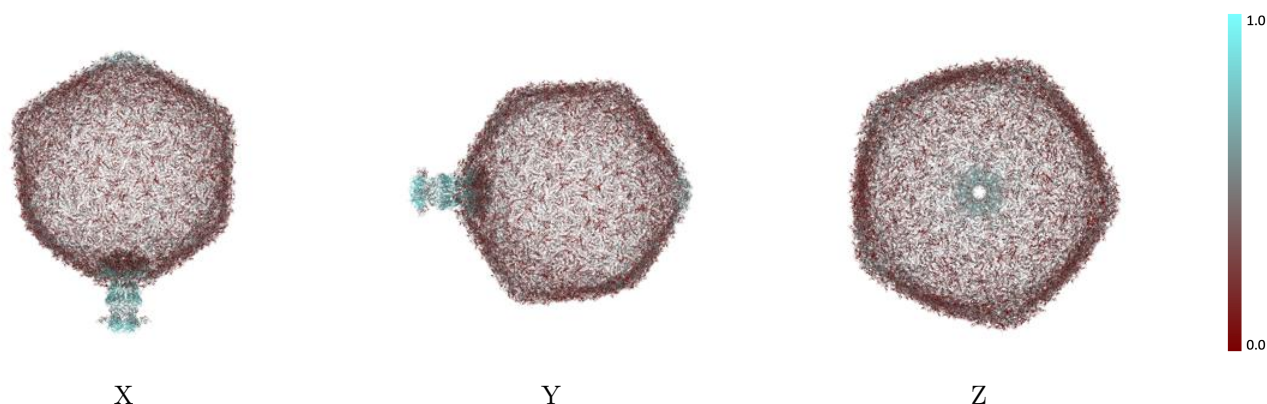
The images above show the 3D surface view of the map at the recommended contour level 0.013 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



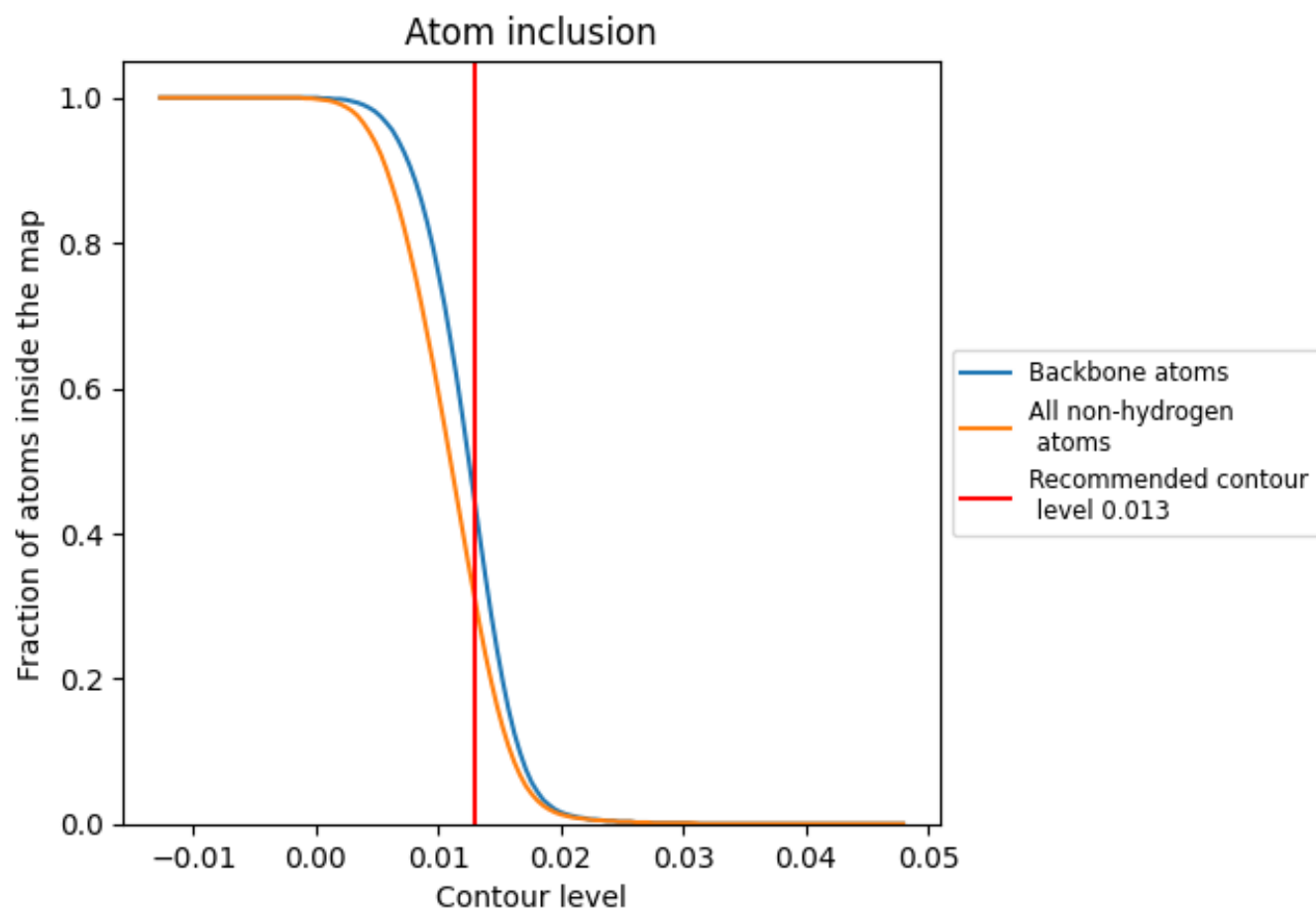
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.013).

9.4 Atom inclusion [i](#)



At the recommended contour level, 44% of all backbone atoms, 31% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.013) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.3090	 0.2000
aA	 0.1750	 0.0600
aB	 0.2550	 0.1450
aC	 0.2270	 0.1090
aD	 0.2510	 0.1740
aE	 0.2480	 0.1390
aF	 0.1820	 0.0950
aG	 0.1870	 0.0800
aH	 0.3500	 0.2490
aI	 0.3130	 0.2190
aJ	 0.3130	 0.2360
aK	 0.3090	 0.2360
aL	 0.3060	 0.2340
aM	 0.3270	 0.2350
aN	 0.3330	 0.2410
aO	 0.2360	 0.1160
aP	 0.2290	 0.1080
aQ	 0.1960	 0.0970
aR	 0.1920	 0.0690
aS	 0.2650	 0.1500
aT	 0.1580	 0.1250
aU	 0.2410	 0.1050
aV	 0.3210	 0.2470
aW	 0.3020	 0.2160
aX	 0.2670	 0.2350
aY	 0.2890	 0.2380
aZ	 0.2760	 0.2530
aa	 0.2620	 0.1480
ab	 0.2010	 0.0910
ac	 0.2740	 0.1050
ad	 0.3810	 0.1150
ae	 0.2320	 0.1190
af	 0.3950	 0.0860
ag	 0.3950	 0.1530
ah	 0.4960	 0.1450



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Chain	Atom inclusion	Q-score
ai	0.2720	0.1590
aj	0.3170	0.1760
ak	0.2610	0.1530
al	0.3040	0.1530
am	0.3650	0.1390
an	0.3710	0.0980
ao	0.2460	0.1800
ap	0.2150	0.1400
aq	0.2250	0.1260
ar	0.1840	0.0720
as	0.2130	0.1390
at	0.1490	0.0160
au	0.4040	0.2070
av	0.2940	0.2130
aw	0.2700	0.2090
ax	0.2790	0.2110
ay	0.2980	0.2010
az	0.3460	0.1900
bA	0.2930	0.2410
bB	0.2670	0.2420
bC	0.2980	0.2430
bD	0.3020	0.2400
bE	0.2270	0.1130
bF	0.2580	0.1580
bG	0.1940	0.1320
bH	0.2340	0.1450
bI	0.2220	0.1080
bJ	0.2150	0.1390
bK	0.1610	0.0350
bL	0.3990	0.2200
bM	0.2740	0.2030
bN	0.2650	0.2050
bO	0.2790	0.2170
bP	0.2960	0.1990
bQ	0.3280	0.1870
bR	0.2150	0.0850
bS	0.2270	0.1310
bT	0.2130	0.1000
bU	0.2220	0.0940
bV	0.2550	0.1360
bW	0.2220	0.1350
bX	0.2430	0.1260

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Chain	Atom inclusion	Q-score
bY	0.3610	0.2460
bZ	0.2950	0.2330
ba	0.2700	0.2490
bb	0.2950	0.2460
bc	0.2360	0.1270
bd	0.2510	0.1370
be	0.1990	0.1110
bf	0.2170	0.1550
bg	0.2550	0.1190
bh	0.2060	0.0880
bi	0.2130	0.0730
bj	0.3340	0.2470
bk	0.3110	0.2140
bl	0.3010	0.2310
bm	0.2860	0.2370
bn	0.2840	0.2350
bo	0.3140	0.2360
bp	0.3190	0.2410
bq	0.2580	0.1090
br	0.2200	0.1130
bs	0.1890	0.0790
bt	0.1770	0.0690
bu	0.2270	0.1470
bv	0.1840	0.1210
bw	0.2270	0.1030
bx	0.3200	0.2410
by	0.2900	0.2150
bz	0.2720	0.2290
cA	0.3520	0.1900
cB	0.3400	0.1910
cC	0.2680	0.1480
cD	0.3130	0.2020
cE	0.2610	0.1700
cF	0.3020	0.1710
cG	0.3260	0.1890
cH	0.2910	0.1120
cI	0.2460	0.1040
cJ	0.2150	0.1090
cK	0.2530	0.0990
cL	0.2320	0.1000
cM	0.1940	0.0860
cN	0.2290	0.1290

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Chain	Atom inclusion	Q-score
cO	 0.3080	 0.2140
cP	 0.3300	 0.1970
cQ	 0.2500	 0.2040
cR	 0.2770	 0.2130
cS	 0.2550	 0.2220
cT	 0.2840	 0.1990
cU	 0.3450	 0.2130
cV	 0.2390	 0.1000
cW	 0.1700	 0.1100
cX	 0.1990	 0.0530
cY	 0.2100	 0.1100
cZ	 0.2060	 0.1500
ca	 0.2830	 0.2240
cb	 0.3020	 0.2320
cc	 0.2940	 0.2420
cd	 0.3100	 0.2290
ce	 0.3280	 0.2340
cf	 0.2320	 0.1130
cg	 0.2390	 0.1380
ch	 0.1840	 0.0880
ci	 0.2410	 0.1050
cj	 0.2620	 0.1380
ck	 0.2130	 0.1150
cl	 0.2810	 0.0830
cm	 0.3780	 0.2390
cn	 0.3440	 0.2130
co	 0.2770	 0.2360
cp	 0.2800	 0.2550
cq	 0.2850	 0.2510
cr	 0.3110	 0.2320
cs	 0.3030	 0.2210
ct	 0.3050	 0.1160
cu	 0.2600	 0.1320
cv	 0.2060	 0.1030
cw	 0.2460	 0.1390
cx	 0.3290	 0.1490
cy	 0.2810	 0.1200
cz	 0.2720	 0.0950
dA	 0.2130	 0.0820
dB	 0.2650	 0.1050
dC	 0.1940	 0.1260
dD	 0.2410	 0.1040

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Chain	Atom inclusion	Q-score
dE	 0.3380	 0.2340
dF	 0.3510	 0.2070
dG	 0.2910	 0.2350
dH	 0.2830	 0.2110
dI	 0.2910	 0.2280
dJ	 0.3060	 0.2290
dK	 0.3400	 0.2040
dL	 0.2880	 0.1240
dM	 0.2740	 0.1360
dN	 0.2100	 0.0860
dO	 0.2670	 0.1110
dP	 0.3550	 0.0930
dQ	 0.2340	 0.1220
dR	 0.4090	 0.0930
dS	 0.4010	 0.1590
dT	 0.5120	 0.1410
dU	 0.2830	 0.1610
dV	 0.3240	 0.1780
dW	 0.2700	 0.1710
dX	 0.3350	 0.1600
dY	 0.3740	 0.1470
dZ	 0.3550	 0.0890
da	 0.1730	 0.0700
db	 0.2290	 0.1510
dc	 0.3410	 0.2450
dd	 0.2950	 0.2120
de	 0.2740	 0.2290
df	 0.2920	 0.2390
dg	 0.2800	 0.2310
dh	 0.2880	 0.2400
di	 0.3240	 0.2300
dj	 0.2060	 0.1490
dk	 0.2080	 0.1340
dl	 0.2010	 0.1050
dm	 0.2460	 0.1210
dn	 0.2620	 0.1930
do	 0.2390	 0.1520
dp	 0.2340	 0.1310
dq	 0.3410	 0.2420
dr	 0.3160	 0.2220
ds	 0.2720	 0.2260
dt	 0.3310	 0.2350

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Chain	Atom inclusion	Q-score
du	0.2790	0.2100
dv	0.2970	0.2250
dw	0.3440	0.2330
dx	0.2840	0.1430
dy	0.2130	0.1620
dz	0.1730	0.1050
eA	0.3360	0.1860
eB	0.2390	0.1030
eC	0.2030	0.1210
eD	0.1660	0.1220
eE	0.2170	0.1030
eF	0.2770	0.1500
eG	0.2340	0.1490
eH	0.2010	0.1370
eI	0.3580	0.2550
eJ	0.2850	0.2270
eK	0.3080	0.2300
eL	0.3180	0.2390
eM	0.3100	0.2390
eN	0.3130	0.2280
eO	0.3290	0.2400
eP	0.1990	0.1100
eQ	0.2290	0.1210
eR	0.1960	0.0740
eS	0.2080	0.1080
eT	0.2580	0.1290
eU	0.2250	0.1100
eV	0.2550	0.0830
eW	0.3590	0.2350
eX	0.3700	0.2160
eY	0.2760	0.2430
eZ	0.2790	0.2480
ea	0.2910	0.1600
eb	0.1960	0.1030
ec	0.2460	0.1320
ed	0.2720	0.1710
ee	0.2650	0.1430
ef	0.2510	0.1150
eg	0.3150	0.1990
eh	0.3220	0.1880
ei	0.2880	0.2190
ej	0.2830	0.1940

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Chain	Atom inclusion	Q-score
ek	0.2750	0.1780
el	0.2770	0.2100
em	0.3140	0.1950
en	0.2550	0.1140
eo	0.2550	0.1310
ep	0.2100	0.1050
eq	0.2740	0.1370
er	0.2880	0.1260
es	0.2650	0.1160
et	0.2530	0.0940
eu	0.3320	0.1850
ev	0.3160	0.1890
ew	0.2710	0.1510
ex	0.3190	0.2030
ey	0.2690	0.1710
ez	0.2810	0.1680
fA	0.2470	0.1540
fB	0.2920	0.2020
fC	0.2530	0.1670
fD	0.2720	0.1690
fE	0.3030	0.1890
fF	0.2530	0.1060
fG	0.2250	0.1350
fH	0.1800	0.1320
fI	0.2220	0.1160
fJ	0.3030	0.1580
fK	0.2550	0.1670
fL	0.2950	0.1440
fM	0.3500	0.2510
fN	0.2840	0.2190
fO	0.2850	0.2410
fP	0.2860	0.2500
fQ	0.2680	0.2500
fR	0.2960	0.2320
fS	0.3310	0.2470
fT	0.2720	0.1130
fU	0.1990	0.1050
fV	0.2220	0.0670
fW	0.2550	0.1340
fX	0.2810	0.1640
fY	0.1990	0.1120
fZ	0.2670	0.1490

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Chain	Atom inclusion	Q-score
fa	0.2790	0.2510
fb	0.2960	0.2330
fc	0.3180	0.2230
fd	0.3050	0.1190
fe	0.2060	0.1510
ff	0.1800	0.0990
fg	0.2250	0.1110
fh	0.2250	0.1320
fi	0.2030	0.1360
fj	0.2360	0.1090
fk	0.3670	0.2260
fl	0.3320	0.2100
fm	0.2800	0.2430
fn	0.2760	0.2530
fo	0.2870	0.2430
fp	0.3150	0.2310
fq	0.3000	0.2210
fr	0.2410	0.1200
fs	0.2580	0.1390
ft	0.2060	0.1110
fu	0.2740	0.1620
fv	0.2840	0.1290
fw	0.2600	0.1150
fx	0.2670	0.0830
fy	0.2990	0.1740
fz	0.3120	0.1880
gA	0.1990	0.0860
gB	0.1940	0.1110
gC	0.3050	0.2140
gD	0.3140	0.1870
gE	0.2850	0.2090
gF	0.3020	0.2110
gG	0.2910	0.2240
gH	0.2930	0.1940
gI	0.3150	0.2120
gJ	0.1990	0.0980
gK	0.2810	0.1440
gL	0.2360	0.1100
gM	0.2390	0.1420
gN	0.2550	0.1210
gO	0.2060	0.0920
gP	0.2170	0.0740

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Chain	Atom inclusion	Q-score
gQ	 0.3630	 0.2390
gR	 0.3320	 0.2110
gS	 0.3200	 0.2420
gT	 0.3030	 0.2270
gU	 0.2910	 0.2230
gV	 0.3350	 0.2190
gW	 0.3520	 0.2340
gX	 0.2790	 0.1180
gY	 0.2060	 0.1510
gZ	 0.2150	 0.1510
ga	 0.3130	 0.2330
gb	 0.3010	 0.2100
gc	 0.2790	 0.2370
gd	 0.2840	 0.2460
ge	 0.2670	 0.2360
gf	 0.2870	 0.2370
gg	 0.3020	 0.2300
gh	 0.2510	 0.1260
gi	 0.2010	 0.1380
gj	 0.2060	 0.1070
gk	 0.2340	 0.1270
gl	 0.2430	 0.1900
gm	 0.2460	 0.1630
gn	 0.2150	 0.1360
go	 0.3530	 0.2380
gp	 0.3010	 0.2140
gq	 0.2870	 0.2250
gr	 0.3140	 0.2290
gs	 0.2780	 0.2030
gt	 0.2940	 0.2120
gu	 0.3450	 0.2300
gv	 0.2880	 0.1520
gw	 0.2510	 0.1300
gx	 0.2220	 0.0970
gy	 0.2060	 0.1090
gz	 0.2010	 0.0900
hA	 0.1770	 0.1190
hB	 0.2390	 0.1440
hC	 0.2100	 0.1100
hD	 0.2510	 0.1610
hE	 0.1770	 0.0350
hF	 0.4230	 0.2180

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Chain	Atom inclusion	Q-score
hG	0.2700	0.2090
hH	0.2590	0.1970
hI	0.2620	0.2100
hJ	0.3010	0.1940
hK	0.3180	0.1780
hL	0.2220	0.0860
hM	0.2670	0.1400
hN	0.2170	0.1090
hO	0.2010	0.1400
hP	0.2460	0.1080
hQ	0.1990	0.0860
hR	0.2060	0.0730
hS	0.3460	0.2410
hT	0.3040	0.2110
hU	0.2910	0.2390
hV	0.3010	0.2300
hW	0.2980	0.2330
hX	0.3070	0.2210
hY	0.3310	0.2370
hZ	0.2460	0.1110
ha	0.2170	0.1310
hb	0.3430	0.1860
hc	0.2150	0.1500
hd	0.2810	0.1090
he	0.3490	0.2540
hf	0.3190	0.2220
hg	0.2760	0.2320
hh	0.2850	0.2580
hi	0.2540	0.2480
hj	0.2970	0.2410
hk	0.3220	0.2510
hl	0.2770	0.1330
hm	0.2550	0.1810
hn	0.2030	0.1300
ho	0.2170	0.1170
hp	0.1920	0.0870
hq	0.2360	0.1730
hr	0.1610	0.0140
hs	0.4060	0.2080
ht	0.2890	0.2200
hu	0.2530	0.1970
hv	0.2790	0.2070

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Chain	Atom inclusion	Q-score
hw	0.2990	0.1950
hx	0.3280	0.1690
hy	0.1960	0.0710
hz	0.2480	0.1610
iA	0.3390	0.2140
iB	0.2510	0.1140
iC	0.1840	0.1030
iD	0.1820	0.0410
iE	0.2130	0.1020
iF	0.2320	0.1280
iG	0.1870	0.0660
iH	0.2480	0.1370
iI	0.3020	0.2480
iJ	0.2840	0.2120
iK	0.2650	0.2330
iL	0.2450	0.2370
iM	0.2230	0.2360
iN	0.2580	0.2440
iO	0.2640	0.2300
iP	0.2480	0.1450
iQ	0.2340	0.1430
iR	0.2030	0.1240
iS	0.2480	0.1230
iT	0.2670	0.1830
iU	0.2410	0.1280
iV	0.2340	0.1240
iW	0.3690	0.2360
iX	0.3160	0.2270
iY	0.2860	0.2270
iZ	0.3320	0.2380
ia	0.2080	0.1300
ib	0.1730	0.1240
ic	0.1990	0.1020
id	0.3100	0.1660
ie	0.1750	0.1330
if	0.2860	0.1270
ig	0.3460	0.2460
ih	0.3440	0.2140
ii	0.2780	0.2320
ij	0.3180	0.2480
ik	0.2830	0.2450
il	0.3020	0.2410

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Chain	Atom inclusion	Q-score
im	0.3430	0.2450
in	0.2670	0.1220
io	0.2250	0.0980
ip	0.2250	0.1180
iq	0.2270	0.1030
ir	0.2720	0.1060
is	0.2270	0.0930
it	0.2410	0.1300
iu	0.3340	0.2190
iv	0.3500	0.1980
iw	0.2620	0.2050
ix	0.3070	0.2240
iy	0.2870	0.2270
iz	0.3220	0.2100
jA	0.2680	0.2380
jB	0.2900	0.2590
jC	0.3020	0.2470
jD	0.2950	0.2350
jE	0.3010	0.2130
jF	0.2320	0.1180
jG	0.2550	0.1420
jH	0.1990	0.1010
jI	0.3050	0.1480
jJ	0.3260	0.1700
jK	0.2980	0.1280
jL	0.2600	0.0720
jM	0.3440	0.1830
jN	0.3390	0.1960
jO	0.2790	0.1500
jP	0.3130	0.1930
jQ	0.2670	0.1620
jR	0.3090	0.1690
jS	0.3470	0.1920
jT	0.2720	0.1170
jU	0.1840	0.1300
jV	0.1700	0.1200
jW	0.1940	0.1070
jX	0.2510	0.1590
jY	0.1750	0.1480
jZ	0.2320	0.1020
ja	0.2900	0.2080
jb	0.3070	0.2220

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Chain	Atom inclusion	Q-score
jc	 0.3650	 0.2320
jd	 0.2740	 0.1370
je	 0.2460	 0.1450
jf	 0.1920	 0.0980
jg	 0.2270	 0.0890
jh	 0.2550	 0.1290
ji	 0.2430	 0.1400
jj	 0.2550	 0.1250
jk	 0.3400	 0.2400
jl	 0.2930	 0.2240
jm	 0.2990	 0.2320
jn	 0.3050	 0.2320
jo	 0.3060	 0.2440
jp	 0.2970	 0.2290
jq	 0.3200	 0.2350
jr	 0.2650	 0.1300
js	 0.2150	 0.1500
jt	 0.1820	 0.1040
ju	 0.1920	 0.1200
jv	 0.2250	 0.1400
jw	 0.2320	 0.1560
jx	 0.2320	 0.0940
jy	 0.3470	 0.2240
jz	 0.3260	 0.2060
kA	 0.2220	 0.0830
kB	 0.3410	 0.2440
kC	 0.3350	 0.2160
kD	 0.2980	 0.2420
kE	 0.2880	 0.2320
kF	 0.2760	 0.2300
kG	 0.3120	 0.2310
kH	 0.3340	 0.2340
kI	 0.3030	 0.1250
kJ	 0.2250	 0.1590
kK	 0.2270	 0.1320
kL	 0.2810	 0.1380
kM	 0.2740	 0.1630
kN	 0.2670	 0.1320
kO	 0.2360	 0.1180
kP	 0.3590	 0.2250
kQ	 0.3410	 0.2250
kR	 0.2920	 0.2220

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Chain	Atom inclusion	Q-score
kS	0.3340	0.2350
kT	0.2770	0.2020
kU	0.2960	0.2070
kV	0.3830	0.2280
kW	0.2860	0.1380
kX	0.2810	0.1290
kY	0.2430	0.1260
kZ	0.2670	0.1380
ka	0.3490	0.2530
kb	0.3140	0.2260
kc	0.2780	0.2320
kd	0.2900	0.2470
ke	0.2810	0.2500
kf	0.3160	0.2460
kg	0.3230	0.2510
kh	0.2340	0.1380
ki	0.2480	0.1910
kj	0.2010	0.1410
kk	0.2060	0.1170
kl	0.1800	0.0650
km	0.2430	0.1630
kn	0.1440	0.0070
ko	0.3940	0.2010
kp	0.2910	0.2240
kq	0.2670	0.2060
kr	0.2660	0.2090
ks	0.3020	0.2010
kt	0.3290	0.1800
ku	0.1820	0.0580
0.2580	0.1460	
kw	0.2250	0.1170
kx	0.2670	0.1680
ky	0.2810	0.1420
kz	0.1920	0.1050
lA	0.2130	0.0660
lB	0.2460	0.1460
lC	0.2810	0.1560
lD	0.1960	0.1120
lE	0.2480	0.1390
lF	0.3350	0.2290
lG	0.3120	0.2110
lH	0.2850	0.2340

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Chain	Atom inclusion	Q-score
II	0.2910	0.2490
IJ	0.2730	0.2400
IK	0.2910	0.2380
IL	0.3090	0.2330
IM	0.2650	0.1250
IN	0.2270	0.1490
IO	0.1960	0.1180
IP	0.2410	0.1340
IQ	0.2790	0.1740
IR	0.2840	0.1490
IS	0.2530	0.1300
IT	0.3490	0.2280
IU	0.3150	0.2230
IV	0.2800	0.2210
IW	0.3040	0.2310
IX	0.2520	0.1970
IY	0.3020	0.2020
IZ	0.3460	0.2250
la	0.2150	0.1150
lb	0.2430	0.1110
lc	0.2200	0.1270
ld	0.2940	0.2260
le	0.2820	0.1930
lf	0.2670	0.2200
lg	0.2900	0.2310
lh	0.2720	0.2370
li	0.2930	0.2150
lj	0.3100	0.2250
lk	0.2290	0.1150
ll	0.2200	0.1110
lm	0.2010	0.0540
ln	0.2170	0.1240
lo	0.2720	0.1570
lp	0.1800	0.0780
lq	0.2390	0.1370
lr	0.3300	0.2380
ls	0.3140	0.2080
lt	0.2720	0.2310
lu	0.2910	0.2370
lv	0.2840	0.2320
lw	0.2760	0.2400
lx	0.3190	0.2320

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Chain	Atom inclusion	Q-score
ly	0.2530	0.1300
lz	0.1990	0.1200
mA	0.2570	0.2290
mB	0.2420	0.2120
mC	0.2620	0.1140
mD	0.2430	0.1440
mE	0.2170	0.1060
mF	0.2950	0.1580
mG	0.2860	0.1610
mH	0.2700	0.1290
mI	0.2480	0.0810
mJ	0.3160	0.1730
mK	0.2950	0.1950
mL	0.2750	0.1540
mM	0.2850	0.1960
mN	0.2630	0.1640
mO	0.2900	0.1690
mP	0.3360	0.1930
mQ	0.2580	0.1120
mR	0.2290	0.1360
mS	0.1990	0.1260
mT	0.2170	0.1070
mU	0.3190	0.1320
mV	0.2530	0.1610
mW	0.2670	0.1320
mX	0.3730	0.2420
mY	0.3250	0.2180
mZ	0.3200	0.2400
ma	0.2840	0.1400
mb	0.2880	0.1470
mc	0.2460	0.1280
md	0.2390	0.1310
me	0.2030	0.0970
mf	0.2360	0.1090
mg	0.2390	0.1200
mh	0.2950	0.2210
mi	0.3000	0.1840
mj	0.2680	0.2200
mk	0.2920	0.2300
ml	0.2920	0.2370
mm	0.2790	0.2070
mn	0.3120	0.2240

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Chain	Atom inclusion	Q-score
mo	 0.2390	 0.1180
mp	 0.2010	 0.1560
mq	 0.2060	 0.1210
mr	 0.1890	 0.1380
ms	 0.2410	 0.1490
mt	 0.2580	 0.1610
mu	 0.2410	 0.1010
mv	 0.3040	 0.2210
mw	 0.3150	 0.2030
mx	 0.2450	 0.2500
my	 0.2420	 0.2660
mz	 0.2480	 0.2480
nA	 0.3050	 0.2110
nB	 0.2650	 0.2380
nC	 0.2650	 0.2280
nD	 0.2790	 0.2360
nE	 0.2740	 0.2260
nF	 0.3050	 0.2140
nG	 0.2720	 0.1270
nH	 0.2880	 0.1400
nI	 0.2200	 0.0880
nJ	 0.2460	 0.0970
nK	 0.3500	 0.0980
nL	 0.2460	 0.1320
nM	 0.3970	 0.1060
nN	 0.3990	 0.1560
nO	 0.5060	 0.1410
nP	 0.2830	 0.1650
nQ	 0.3150	 0.1750
nR	 0.2800	 0.1660
nS	 0.3250	 0.1610
nT	 0.3670	 0.1420
nU	 0.3450	 0.0890
nV	 0.2840	 0.1590
nW	 0.2130	 0.0890
nX	 0.2550	 0.0930
nY	 0.3640	 0.1150
nZ	 0.2270	 0.1280
na	 0.3490	 0.2400
nb	 0.3150	 0.2460
nc	 0.3520	 0.2350
nd	 0.3660	 0.2400

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Chain	Atom inclusion	Q-score
ne	 0.2720	 0.1240
nf	 0.3100	 0.1750
ng	 0.2100	 0.1180
nh	 0.2390	 0.1340
ni	 0.2860	 0.1650
nj	 0.2700	 0.1550
nk	 0.2510	 0.1150
nl	 0.2960	 0.1920
nm	 0.3130	 0.1830
nn	 0.3190	 0.2200
no	 0.2710	 0.1940
np	 0.2670	 0.1800
nq	 0.2870	 0.2050
nr	 0.2950	 0.1910
ns	 0.2220	 0.1120
nt	 0.2650	 0.1810
nu	 0.2250	 0.1420
nv	 0.2290	 0.1130
nw	 0.2620	 0.1220
nx	 0.2410	 0.1470
ny	 0.2130	 0.1010
nz	 0.3170	 0.2330
oA	 0.2530	 0.1220
oB	 0.2270	 0.1530
oC	 0.2360	 0.1000
oD	 0.3020	 0.2320
oE	 0.3070	 0.2070
oF	 0.2790	 0.2470
oG	 0.2790	 0.2310
oH	 0.2720	 0.2370
oI	 0.2600	 0.2200
oJ	 0.3020	 0.2090
oK	 0.2550	 0.1310
oL	 0.2670	 0.1300
oM	 0.2200	 0.0910
oN	 0.2650	 0.1120
oO	 0.3430	 0.1020
oP	 0.2130	 0.1080
oQ	 0.3730	 0.0740
oR	 0.4060	 0.1560
oS	 0.5000	 0.1430
oT	 0.2740	 0.1600

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Chain	Atom inclusion	Q-score
oU	 0.3210	 0.1800
oV	 0.2720	 0.1640
oW	 0.3150	 0.1540
oX	 0.3700	 0.1410
oY	 0.3570	 0.0930
oZ	 0.2790	 0.1390
oa	 0.3880	 0.1010
ob	 0.4000	 0.1560
oc	 0.4970	 0.1450
od	 0.2870	 0.1630
oe	 0.3020	 0.1740
of	 0.2610	 0.1570
og	 0.3120	 0.1550
oh	 0.3640	 0.1400
oi	 0.3590	 0.0990
oj	 0.3030	 0.1540
ok	 0.2150	 0.1310
ol	 0.1960	 0.1170
om	 0.2530	 0.1650
on	 0.2580	 0.1370
oo	 0.2080	 0.0960
op	 0.3020	 0.1890
oq	 0.2960	 0.1840
or	 0.2990	 0.2060
os	 0.2700	 0.1900
ot	 0.2690	 0.1820
ou	 0.2760	 0.1950
ov	 0.2950	 0.1840
ow	 0.2200	 0.1090
ox	 0.2620	 0.1890
oy	 0.2460	 0.1420
oz	 0.2200	 0.1230
pA	 0.2980	 0.1250
pB	 0.2720	 0.1270
pC	 0.1870	 0.1210
pD	 0.2130	 0.1170
pE	 0.2670	 0.1580
pF	 0.2410	 0.1120
pG	 0.2670	 0.0910
pH	 0.3250	 0.1960
pI	 0.3370	 0.1890
pJ	 0.2920	 0.2020

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Chain	Atom inclusion	Q-score
pK	0.2610	0.1860
pL	0.2720	0.1840
pM	0.2690	0.1930
pN	0.3120	0.1880
pO	0.2580	0.1020
pP	0.2290	0.1750
pQ	0.1890	0.1020
pR	0.2010	0.0930
pS	0.2340	0.1110
pT	0.1770	0.1280
pU	0.2340	0.1070
pV	0.3160	0.2210
pW	0.2930	0.1970
pX	0.2930	0.2390
pY	0.2780	0.2160
pZ	0.2830	0.2280
pa	0.1960	0.1010
pb	0.2290	0.1220
pc	0.2880	0.1610
pd	0.2430	0.1310
pe	0.2360	0.1040
pf	0.3570	0.1990
pg	0.3470	0.1920
ph	0.3220	0.2090
pi	0.2940	0.1870
pj	0.2920	0.1860
pk	0.3180	0.2030
pl	0.3470	0.1950
pm	0.2720	0.1070
pn	0.2130	0.1630
po	0.1890	0.0850
pp	0.1840	0.0710
pq	0.2840	0.0960
pr	0.1680	0.1200
ps	0.2530	0.1070
pt	0.3340	0.2260
pu	0.3140	0.2010
pV	0.2500	0.2410
pw	0.2230	0.2050
px	0.2410	0.2260
py	0.2850	0.2290
pz	0.2820	0.1990

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Chain	Atom inclusion	Q-score
qA	 0.7470	 0.2970
qB	 0.5800	 0.2490
qC	 0.7860	 0.2970
qD	 0.5370	 0.2520
qE	 0.7420	 0.2990
qF	 0.5220	 0.2470
qG	 0.7670	 0.2930
qH	 0.5150	 0.2440
qI	 0.7250	 0.3070
qJ	 0.5400	 0.2310
qK	 0.7170	 0.3000
qL	 0.5570	 0.2180
qM	 0.7730	 0.2730
qa	 0.2730	 0.2220
qb	 0.3080	 0.2030
qc	 0.2200	 0.1240
qd	 0.5580	 0.0800
qe	 0.5180	 0.0860
qf	 0.5750	 0.0970
qg	 0.5390	 0.0930
qh	 0.5470	 0.0970
qi	 0.5460	 0.0700
qj	 0.7220	 0.1740
qk	 0.7270	 0.1710
ql	 0.7320	 0.1650
qm	 0.6940	 0.1840
qn	 0.6960	 0.1790
qo	 0.7470	 0.1800
qp	 0.5310	 0.2310
qq	 0.7500	 0.2940
qr	 0.5210	 0.2260
qs	 0.7890	 0.2850
qt	 0.4910	 0.2310
qu	 0.7400	 0.2880
qv	 0.5080	 0.2400
qw	 0.7700	 0.2870
qx	 0.5410	 0.2340
qy	 0.7240	 0.2610
qz	 0.5500	 0.2410