Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 03:22 AM UTC

PDB ID	:	6Q3G / pdb_00006q3g
EMDB ID	:	EMD-4459
Title	:	Structure of native bacteriophage P68
Authors	:	Dominik, H.; Karel, S.; Fuzik, T.; Plevka, P.
Deposited on	:	2018-12-04
Resolution	:	3.80 Å(reported)
Based on initial models	:	6IAC, 6IAW, 6IAB, 6IAT

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:

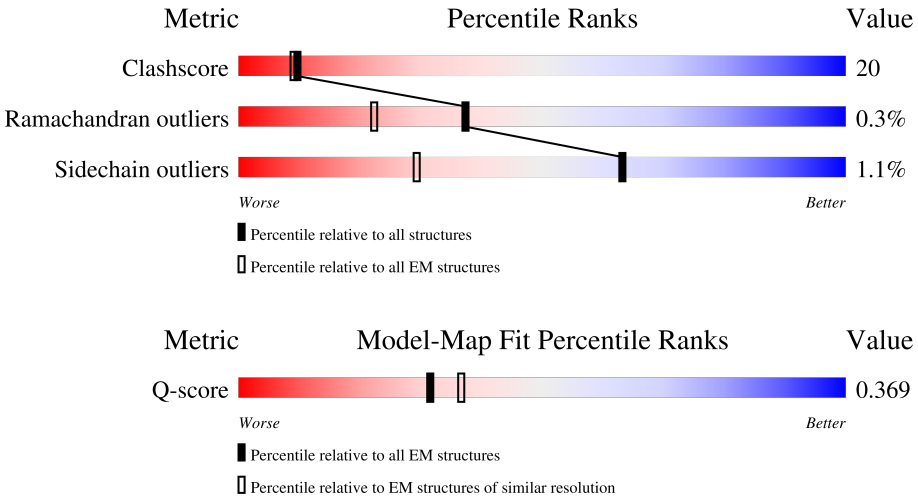
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & 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 3.80 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	10198 (3.30 - 4.30)

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 <=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	A1	408	71% 24%
1	A3	408	73% 22%
1	A4	408	71% 24%
1	A6	408	72% 23%

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Mol	Chain	Length	Quality of chain
1	A7	408	72% 23%
1	A8	408	71% 24%
1	AD	408	24% 50% 34% 13%
1	AE	408	60% 34% 6%
1	AG	408	72% 23%
1	AJ	408	23% 52% 32% 13%
1	AK	408	22% 52% 32% 13%
1	AL	408	71% 23%
1	AP	408	22% 50% 34% 13%
1	AQ	408	72% 22%
1	AR	408	72% 23%
1	AS	408	58% 37%
1	B1	408	77% 16% 6%
1	B3	408	78% 16% 6%
1	B4	408	78% 15% 6%
1	B6	408	78% 15% 6%
1	B7	408	74% 20% 6%
1	B8	408	78% 15% 6%
1	BD	408	59% 36%
1	BE	408	65% 29%
1	BG	408	78% 16% 6%
1	BJ	408	59% 37%
1	BK	408	59% 36%
1	BL	408	77% 17% 6%
1	BP	408	59% 36%

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Mol	Chain	Length	Quality of chain
1	BQ	408	77% 17% 6%
1	BR	408	78% 16% 6%
1	BS	408	60% 34% 5%
1	C1	408	60% 33% 6%
1	C3	408	61% 32% 6%
1	C4	408	60% 33% 6%
1	C6	408	60% 33% 6%
1	C7	408	60% 34% 6%
1	C8	408	60% 33% 6%
1	CD	408	60% 34% 5%
1	CE	408	77% 17% 6%
1	CG	408	60% 33% 6%
1	CJ	408	59% 35% 5%
1	CK	408	59% 35% 5%
1	CL	408	60% 34% 6%
1	CP	408	60% 34% 5%
1	CQ	408	60% 34% 6%
1	CR	408	60% 34% 6%
1	CS	408	58% 36% 5%
1	D1	408	80% 15%
1	D3	408	79% 16%
1	D4	408	80% 16%
1	D6	408	80% 16%
1	D7	408	79% 16%
1	D8	408	80% 15%

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Mol	Chain	Length	Quality of chain
1	DD	408	58% 36% 5%
1	DE	408	78% 18%
1	DG	408	80% 16%
1	DJ	408	59% 35% 5%
1	DK	408	60% 34% 5%
1	DL	408	80% 15%
1	DP	408	59% 36% 5%
1	DQ	408	80% 16%
1	DR	408	79% 16%
1	FE	408	70% 26%
1	I1	408	60% 33% 6%
1	I3	408	60% 33% 6%
1	I4	408	60% 33% 6%
1	I6	408	60% 33% 6%
1	I7	408	60% 34% 6%
1	I8	408	60% 33% 6%
1	IG	408	60% 33% 6%
1	IL	408	60% 33% 6%
1	IQ	408	61% 33% 6%
1	IR	408	60% 34% 6%
1	IS	408	23% 52% 32% 13%
1	J1	408	72% 23%
1	J3	408	71% 24%
1	J4	408	72% 23%
1	J6	408	72% 23%

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Mol	Chain	Length	Quality of chain
1	J7	408	71% 23%
1	J8	408	72% 23%
1	JG	408	72% 23%
1	JL	408	71% 23%
1	JQ	408	72% 22%
1	JR	408	71% 23%
1	JS	408	16% 57% 36% 6%
1	K1	408	78% 15% 6%
1	K3	408	77% 17% 6%
1	K4	408	77% 17% 6%
1	K6	408	77% 16% 6%
1	K7	408	77% 17% 6%
1	K8	408	78% 15% 6%
1	KD	408	17% 56% 37% 6%
1	KE	408	60% 33% 6%
1	KG	408	77% 17% 6%
1	KJ	408	16% 56% 37% 6%
1	KK	408	16% 56% 38% 6%
1	KL	408	78% 16% 6%
1	KP	408	17% 56% 37% 6%
1	KQ	408	78% 16% 6%
1	KR	408	78% 16% 6%
1	KS	408	55% 39% 5%
1	L1	408	80% 15%
1	L3	408	80% 15%

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Mol	Chain	Length	Quality of chain
1	L4	408	80% 16%
1	L6	408	81% 15%
1	L7	408	81% 15%
1	L8	408	80% 15%
1	LD	408	54% 39% 5%
1	LE	408	71% 24%
1	LG	408	80% 16%
1	LJ	408	54% 40% 5%
1	LK	408	54% 39% 5%
1	LL	408	80% 16%
1	LP	408	55% 39% 5%
1	LQ	408	80% 16%
1	LR	408	80% 15%
1	ME	408	77% 17% 6%
1	NE	408	80% 16%
1	Q1	408	60% 33% 6%
1	Q3	408	60% 33% 6%
1	Q4	408	60% 34% 6%
1	Q6	408	60% 34% 6%
1	Q7	408	60% 33% 6%
1	Q8	408	60% 33% 6%
1	QG	408	59% 34% 6%
1	QL	408	60% 33% 6%
1	QQ	408	60% 34% 6%
1	QR	408	60% 33% 6%

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Mol	Chain	Length	Quality of chain
1	R1	408	66% 29%
1	R3	408	72% 23%
1	R4	408	66% 29%
1	R6	408	72% 22%
1	R7	408	70% 24%
1	R8	408	72% 23%
1	RG	408	72% 23%
1	RL	408	72% 23%
1	RQ	408	72% 23%
1	RR	408	72% 23%
1	S1	408	77% 17% 6%
1	S3	408	77% 17% 6%
1	S4	408	76% 18% 6%
1	S6	408	74% 20% 6%
1	S7	408	77% 16% 6%
1	S8	408	77% 16% 6%
1	SE	408	61% 33% 6%
1	SG	408	77% 17% 6%
1	SL	408	77% 16% 6%
1	SQ	408	78% 16% 6%
1	SR	408	78% 16% 6%
1	T1	408	71% 25%
1	T3	408	80% 16%
1	T4	408	70% 26%
1	T6	408	78% 18%

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Mol	Chain	Length	Quality of chain
1	T7	408	80% 15%
1	T8	408	80% 15%
1	TE	408	71% 24%
1	TG	408	80% 15%
1	TL	408	80% 15%
1	TQ	408	79% 17%
1	TR	408	79% 16%
1	UE	408	78% 16% 6%
1	VE	408	80% 16%
1	X1	408	61% 33% 6%
1	X4	408	61% 33% 6%
1	Y1	408	71% 24%
1	Y3	408	77% 19%
1	Y4	408	71% 24%
1	Y6	408	60% 34% 6%
1	Y7	408	60% 33% 6%
1	Y8	408	60% 33% 6%
1	YG	408	60% 33% 6%
1	YL	408	61% 33% 6%
1	YQ	408	77% 18%
1	YR	408	60% 34% 6%
1	Z1	408	78% 16% 6%
1	Z4	408	77% 16% 6%
1	Z6	408	71% 23%
1	Z7	408	72% 22%

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Mol	Chain	Length	Quality of chain
1	Z8	408	73% 22%
1	ZG	408	71% 24%
1	ZL	408	73% 22%
1	ZR	408	72% 23%
1	a1	408	81% 15%
1	a4	408	81% 15%
1	a6	408	78% 16% 6%
1	a7	408	77% 16% 6%
1	a8	408	78% 16% 6%
1	aE	408	60% 33% 6%
1	aG	408	74% 20% 6%
1	aL	408	77% 16% 6%
1	aR	408	77% 17% 6%
1	b3	408	77% 19%
1	b6	408	79% 16%
1	b7	408	81% 15%
1	b8	408	79% 17%
1	bE	408	70% 25%
1	bG	408	78% 17%
1	bL	408	80% 15%
1	bQ	408	60% 33% 6%
1	bR	408	80% 16%
1	cE	408	77% 16% 6%
1	cQ	408	71% 23%
1	dE	408	80% 15%

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Mol	Chain	Length	Quality of chain
1	dQ	408	78% 15% 6%
1	eQ	408	80% 16%
1	f1	408	60% 33% 6%
1	f4	408	60% 33% 6%
1	g1	408	71% 23%
1	g4	408	67% 28%
1	g6	408	60% 33% 6%
1	g7	408	61% 33% 6%
1	g8	408	60% 33% 6%
1	gG	408	60% 33% 6%
1	gL	408	77% 19%
1	gR	408	59% 34% 6%
1	h1	408	78% 16% 6%
1	h4	408	76% 17% 6%
1	h6	408	71% 23%
1	h7	408	71% 24%
1	h8	408	71% 24%
1	hG	408	71% 23%
1	hR	408	66% 29%
1	i1	408	80% 15%
1	i4	408	70% 26%
1	i6	408	74% 20% 6%
1	i7	408	77% 17% 6%
1	i8	408	75% 19% 6%
1	iG	408	78% 16% 6%

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Mol	Chain	Length	Quality of chain
1	iR	408	76% 18% 6%
1	j6	408	79% 17%
1	j7	408	79% 16%
1	j8	408	78% 17%
1	jG	408	79% 16%
1	jR	408	71% 25%
2	DS	60	60% 28% 8%
2	E1	60	60% 20% 7% 10%
2	E3	60	57% 23% 7% 10%
2	E4	60	60% 20% 7% 10%
2	E6	60	60% 20% 7% 10%
2	E7	60	60% 20% 7% 10%
2	E8	60	57% 23% 7% 10%
2	ED	60	60% 28% 8%
2	EE	60	58% 22% 7% 10%
2	EG	60	57% 23% 7% 10%
2	EJ	60	60% 28% 8%
2	EK	60	60% 28% 8%
2	EL	60	60% 20% 7% 10%
2	EP	60	60% 28% 8%
2	EQ	60	60% 20% 7% 10%
2	ER	60	60% 20% 7% 10%
2	ES	60	10% 50% 37% 8%
2	F1	60	5% 63% 27% 8%
2	F3	60	5% 60% 28% 8%

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Mol	Chain	Length	Quality of chain
2	F4	60	5% 63% 27% 8%
2	F6	60	63% 27% 8%
2	F7	60	7% 62% 28% 8%
2	F8	60	5% 62% 27% 8%
2	FD	60	13% 48% 38% 8%
2	FG	60	5% 58% 30% 8%
2	FJ	60	12% 50% 37% 8%
2	FK	60	10% 50% 37% 8%
2	FL	60	5% 62% 27% 8%
2	FP	60	10% 48% 38% 5% 8%
2	FQ	60	7% 63% 27% 8%
2	FR	60	62% 28% 8%
2	FS	60	13% 25% 25% 50%
2	G1	60	33% 12% 55%
2	G3	60	5% 33% 12% 55%
2	G4	60	5% 33% 12% 55%
2	G6	60	33% 12% 55%
2	G7	60	5% 33% 12% 55%
2	G8	60	33% 12% 55%
2	GD	60	15% 27% 23% 50%
2	GE	60	5% 30% 13% 55%
2	GG	60	5% 33% 12% 55%
2	GJ	60	12% 30% 20% 50%
2	GK	60	18% 28% 22% 50%
2	GL	60	5% 33% 12% 55%

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Mol	Chain	Length	Quality of chain
2	GP	60	13% 27% 23% 50%
2	GQ	60	33% 12% 55%
2	GR	60	5% 33% 12% 55%
2	GS	60	8% 60% 28% 10%
2	H1	60	53% 37% 8%
2	H3	60	5% 53% 37% 8%
2	H4	60	53% 37% 8%
2	H6	60	5% 53% 37% 8%
2	H7	60	53% 37% 8%
2	H8	60	5% 55% 35% 8%
2	HD	60	8% 60% 28% 10%
2	HE	60	7% 53% 37% 8%
2	HG	60	53% 37% 8%
2	HJ	60	10% 62% 27% 10%
2	HK	60	8% 62% 27% 10%
2	HL	60	53% 37% 8%
2	HP	60	10% 60% 28% 10%
2	HQ	60	55% 35% 8%
2	HR	60	55% 35% 8%
2	IE	60	5% 32% 13% 55%
2	JE	60	7% 48% 42% 8%
2	LS	60	52% 38% 52% 8%
2	M1	60	57% 23% 7% 10%
2	M3	60	60% 20% 7% 10%
2	M4	60	60% 20% 7% 10%

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Mol	Chain	Length	Quality of chain
2	M6	60	60% 20% 7% 10%
2	M7	60	60% 20% 7% 10%
2	M8	60	60% 20% 7% 10%
2	MD	60	53% 42% 48% 8%
2	MG	60	60% 20% 7% 10%
2	MJ	60	48% 50% 40% 8%
2	MK	60	58% 47% 43% 8%
2	ML	60	60% 20% 7% 10%
2	MP	60	48% 43% 47% 8%
2	MQ	60	57% 23% 7% 10%
2	MR	60	5% 60% 20% 7% 10%
2	MS	60	23% 53% 33% 8%
2	N1	60	5% 62% 27% 8%
2	N3	60	5% 62% 28% 8%
2	N4	60	5% 62% 28% 8%
2	N6	60	62% 28% 8%
2	N7	60	5% 62% 27% 8%
2	N8	60	5% 60% 30% 8%
2	ND	60	27% 53% 33% 8%
2	NG	60	5% 60% 30% 8%
2	NJ	60	22% 50% 37% 5% 8%
2	NK	60	23% 50% 37% 5% 8%
2	NL	60	63% 25% 8%
2	NP	60	27% 52% 35% 5% 8%
2	NQ	60	60% 28% 8%

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Mol	Chain	Length	Quality of chain
2	NR	60	62% 27% 8%
2	O1	60	33% 12% 55%
2	O3	60	5% 33% 12% 55%
2	O4	60	33% 12% 55%
2	O6	60	33% 12% 55%
2	O7	60	5% 33% 12% 55%
2	O8	60	5% 33% 12% 55%
2	OE	60	60% 20% 7% 10%
2	OG	60	33% 12% 55%
2	OL	60	33% 12% 55%
2	OQ	60	33% 12% 55%
2	OR	60	33% 12% 55%
2	P1	60	55% 35% 8%
2	P3	60	5% 55% 35% 8%
2	P4	60	53% 37% 8%
2	P6	60	55% 35% 8%
2	P7	60	55% 35% 8%
2	P8	60	53% 37% 8%
2	PE	60	5% 63% 27% 8%
2	PG	60	5% 55% 35% 8%
2	PL	60	53% 37% 8%
2	PQ	60	53% 37% 8%
2	PR	60	55% 35% 8%
2	QE	60	5% 33% 12% 55%
2	RE	60	53% 37% 8%

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Mol	Chain	Length	Quality of chain
2	U1	60	7% 52% 38% 8%
2	U3	60	60% 20% 7% 10%
2	U4	60	7% 52% 38% 8%
2	U6	60	60% 20% 7% 10%
2	U7	60	60% 20% 7% 10%
2	U8	60	60% 20% 7% 10%
2	UG	60	60% 20% 7% 10%
2	UL	60	60% 20% 7% 10%
2	UQ	60	60% 20% 7% 10%
2	UR	60	57% 23% 7% 10%
2	V1	60	7% 33% 12% 55%
2	V3	60	62% 27% 8%
2	V4	60	7% 32% 13% 55%
2	V6	60	7% 62% 27% 8%
2	V7	60	62% 27% 8%
2	V8	60	62% 28% 8%
2	VG	60	60% 30% 8%
2	VL	60	62% 28% 8%
2	VQ	60	63% 27% 8%
2	VR	60	5% 60% 28% 8%
2	W1	60	7% 47% 43% 8%
2	W3	60	33% 12% 55%
2	W4	60	5% 47% 43% 8%
2	W6	60	5% 33% 12% 55%
2	W7	60	33% 12% 55%

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Mol	Chain	Length	Quality of chain
2	W8	60	33% 12% 55%
2	WE	60	57% 23% 7% 10%
2	WG	60	33% 12% 55%
2	WL	60	33% 12% 55%
2	WQ	60	33% 12% 55%
2	WR	60	5% 33% 12% 55%
2	X3	60	53% 37% 8%
2	X6	60	5% 53% 37% 8%
2	X7	60	55% 35% 8%
2	X8	60	55% 35% 8%
2	XE	60	63% 27% 8%
2	XG	60	7% 53% 37% 8%
2	XL	60	7% 53% 37% 8%
2	XQ	60	55% 35% 8%
2	XR	60	53% 37% 8%
2	YE	60	5% 33% 12% 55%
2	Z3	60	60% 20% 7% 10%
2	ZE	60	5% 55% 35% 8%
2	ZQ	60	55% 25% 7% 10%
2	a3	60	5% 30% 13% 55%
2	aQ	60	5% 30% 13% 55%
2	b1	60	60% 20% 7% 10%
2	b4	60	60% 20% 7% 10%
2	c1	60	5% 62% 28% 8%
2	c3	60	58% 22% 7% 10%

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Mol	Chain	Length	Quality of chain
2	c4	60	5% 63% 25% • 8%
2	c6	60	• 60% 20% 7% • 10%
2	c7	60	• 60% 20% 7% • 10%
2	c8	60	• 60% 20% 7% • 10%
2	cG	60	• 60% 20% 7% • 10%
2	cL	60	• 60% 20% 7% • 10%
2	cR	60	• 57% 23% 7% • 10%
2	d1	60	5% 33% 12% 55%
2	d3	60	5% 30% 13% • 55%
2	d4	60	5% 33% 12% 55%
2	d6	60	• 63% 27% • 8%
2	d7	60	5% 63% 25% • 8%
2	d8	60	• 62% 28% • 8%
2	dG	60	7% 63% 25% • 8%
2	dL	60	• 62% 28% • 8%
2	dR	60	5% 63% 27% • 8%
2	e1	60	• 53% 37% • 8%
2	e4	60	• 53% 37% • 8%
2	e6	60	• 33% 12% 55%
2	e7	60	• 33% 12% 55%
2	e8	60	5% 33% 12% 55%
2	eE	60	• 60% 20% 7% • 10%
2	eG	60	5% 33% 12% 55%
2	eL	60	• 33% 12% 55%
2	eR	60	• 33% 12% 55%

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Mol	Chain	Length	Quality of chain
2	f6	60	5% 55% 35% 8%
2	f7	60	53% 37% 8%
2	f8	60	5% 53% 37% 8%
2	fE	60	62% 27% 8%
2	fG	60	53% 37% 8%
2	fL	60	53% 37% 8%
2	fQ	60	60% 20% 7% 10%
2	fR	60	55% 35% 8%
2	gE	60	33% 12% 55%
2	gQ	60	5% 63% 27% 8%
2	hE	60	53% 37% 8%
2	hL	60	58% 22% 7% 10%
2	hQ	60	5% 33% 12% 55%
2	iL	60	30% 13% 55%
2	iQ	60	53% 37% 8%
2	j1	60	60% 20% 7% 10%
2	j4	60	7% 48% 42% 8%
2	k1	60	5% 63% 25% 8%
2	k4	60	7% 33% 12% 55%
2	k6	60	60% 20% 7% 10%
2	k7	60	57% 23% 7% 10%
2	k8	60	60% 20% 7% 10%
2	kG	60	60% 20% 7% 10%
2	kR	60	7% 50% 40% 8%
2	l1	60	33% 12% 55%

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Mol	Chain	Length	Quality of chain
2	l4	60	7% 45% 45% 8%
2	l6	60	7% 63% 27% 8%
2	l7	60	62% 28% 8%
2	l8	60	7% 63% 27% 8%
2	lG	60	5% 63% 27% 8%
2	lR	60	7% 33% 12% 55%
2	m1	60	53% 37% 8%
2	m6	60	33% 12% 55%
2	m7	60	33% 12% 55%
2	m8	60	5% 33% 12% 55%
2	mG	60	5% 33% 12% 55%
2	mR	60	7% 47% 43% 8%
2	n6	60	53% 37% 8%
2	n7	60	55% 35% 8%
2	n8	60	53% 37% 8%
2	nG	60	53% 37% 8%
3	A2	327	57% 34% 8%
3	A5	327	57% 33% 8%
3	A9	327	57% 34% 8%
3	AA	327	57% 33% 8%
3	AB	327	57% 33% 8%
3	AC	327	57% 34% 8%
3	AF	327	57% 34% 8%
3	AH	327	57% 33% 8%
3	AI	327	57% 33% 8%

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Mol	Chain	Length	Quality of chain
3	AM	327	58% 33% 8%
3	AN	327	57% 34% 8%
3	AO	327	56% 35% 8%
4	B2	251	61% 27% 12%
4	B5	251	61% 26% 12%
4	B9	251	61% 27% 12%
4	BA	251	61% 26% 12%
4	BB	251	62% 25% 12%
4	BC	251	61% 26% 12%
4	BF	251	60% 27% 12%
4	BH	251	61% 26% 12%
4	BI	251	60% 27% 12%
4	BM	251	62% 25% 12%
4	BN	251	61% 26% 12%
4	BO	251	61% 26% 12%
5	C2	647	11% 73% 23%
5	C5	647	11% 74% 23%
5	C9	647	10% 73% 23%
5	CA	647	10% 73% 23%
5	CB	647	12% 73% 23%
5	CC	647	10% 74% 23%
5	CF	647	12% 74% 23%
5	CH	647	12% 73% 23%
5	CI	647	12% 73% 23%
5	CM	647	13% 73% 23%

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Mol	Chain	Length	Quality of chain
5	CN	647	12% 73% 23%
5	CO	647	13% 73% 23%
5	D2	647	14% 6% 80%
5	D5	647	14% 6% 80%
5	D9	647	14% 6% 80%
5	DA	647	14% 6% 80%
5	DB	647	14% 6% 80%
5	DC	647	14% 6% 80%
5	DF	647	14% 6% 80%
5	DH	647	14% 6% 80%
5	DI	647	14% 6% 80%
5	DM	647	13% 7% 80%
5	DN	647	14% 6% 80%
5	DO	647	14% 6% 80%
5	E2	647	15% 6% 79%
5	E5	647	16% 5% 79%
5	E9	647	16% 5% 79%
5	EA	647	16% 5% 79%
5	EB	647	16% 5% 79%
5	EC	647	16% 5% 79%
5	EF	647	16% 5% 79%
5	EH	647	15% 6% 79%
5	EI	647	16% 5% 79%
5	EM	647	15% 5% 79%
5	EN	647	16% 5% 79%

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Mol	Chain	Length	Quality of chain
5	EO	647	15% 6% 79%
5	F2	647	12% 5% 83%
5	F5	647	12% 5% 83%
5	F9	647	12% 5% 83%
5	FA	647	12% 5% 83%
5	FB	647	12% 5% 83%
5	FC	647	12% 5% 83%
5	FF	647	12% 5% 83%
5	FH	647	11% 5% 83%
5	FI	647	12% 5% 83%
5	FM	647	12% 5% 83%
5	FN	647	12% 5% 83%
5	FO	647	12% 5% 83%
5	N2	647	10% 74% 23%
5	N5	647	11% 74% 23%
5	N9	647	9% 74% 23%
5	NA	647	10% 74% 23%
5	NB	647	10% 74% 23%
5	NC	647	10% 74% 23%
5	NF	647	12% 74% 23%
5	NH	647	10% 74% 23%
5	NI	647	11% 74% 23%
5	NM	647	11% 74% 23%
5	NN	647	10% 74% 23%
5	NO	647	12% 74% 23%

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Mol	Chain	Length	Quality of chain
5	O2	647	13% 74% 23%
5	O5	647	14% 74% 23%
5	O9	647	13% 74% 23%
5	OA	647	13% 74% 23%
5	OB	647	13% 74% 23%
5	OC	647	13% 74% 23%
5	OF	647	13% 74% 23%
5	OH	647	13% 74% 23%
5	OI	647	15% 74% 23%
5	OM	647	16% 74% 23%
5	ON	647	15% 74% 23%
5	OO	647	15% 74% 23%
6	G2	133	14% 86%
6	G5	133	14% 86%
6	G9	133	14% 86%
6	GA	133	14% 86%
6	GB	133	14% 86%
6	GC	133	14% 86%
6	GF	133	14% 86%
6	GH	133	14% 86%
6	GI	133	14% 86%
6	GM	133	14% 86%
6	GN	133	14% 86%
6	GO	133	14% 86%
6	H2	133	14% 86%

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Mol	Chain	Length	Quality of chain
6	H5	133	14% 86%
6	H9	133	14% 86%
6	HA	133	14% 86%
6	HB	133	14% 86%
6	HC	133	14% 86%
6	HF	133	14% 86%
6	HH	133	14% 86%
6	HI	133	14% 86%
6	HM	133	14% 86%
6	HN	133	14% 86%
6	HO	133	14% 86%
6	I2	133	18% 82%
6	I5	133	18% 82%
6	I9	133	18% 82%
6	IA	133	18% 82%
6	IB	133	18% 82%
6	IC	133	18% 82%
6	IF	133	5% 18% 82%
6	IH	133	18% 82%
6	II	133	5% 18% 82%
6	IM	133	5% 18% 82%
6	IN	133	18% 82%
6	IO	133	5% 18% 82%
6	J2	133	18% 82%
6	J5	133	18% 82%

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Mol	Chain	Length	Quality of chain
6	J9	133	18% 82%
6	JA	133	18% 82%
6	JB	133	18% 82%
6	JC	133	18% 82%
6	JF	133	18% 82%
6	JH	133	18% 82%
6	JI	133	18% 82%
6	JM	133	18% 82%
6	JN	133	18% 82%
6	JO	133	18% 82%
6	K2	133	15% 83%
6	K5	133	15% 83%
6	K9	133	15% 83%
6	KA	133	15% 83%
6	KB	133	15% 83%
6	KC	133	15% 83%
6	KF	133	15% 83%
6	KH	133	15% 83%
6	KI	133	15% 83%
6	KM	133	15% 83%
6	KN	133	15% 83%
6	KO	133	15% 83%
6	L2	133	18% 82%
6	L5	133	18% 82%
6	L9	133	18% 82%

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Mol	Chain	Length	Quality of chain
6	LA	133	18% 82%
6	LB	133	18% 82%
6	LC	133	18% 82%
6	LF	133	17% 82%
6	LH	133	18% 82%
6	LI	133	18% 82%
6	LM	133	18% 82%
6	LN	133	17% 82%
6	LO	133	18% 82%
7	HS	55	33% 95% 5%
7	ID	55	36% 95% 5%
7	IJ	55	33% 95% 5%
7	IK	55	31% 95% 5%
7	IP	55	35% 95% 5%
7	NS	55	29% 95% 5%
7	OD	55	31% 95% 5%
7	OJ	55	27% 95% 5%
7	OK	55	27% 95% 5%
7	OP	55	27% 91% 9%
7	SD	55	15% 96%
7	SJ	55	15% 96%
7	SK	55	16% 93% 7%
7	SP	55	15% 96%
7	SS	55	16% 96%
8	PD	17	12% 94% 6%

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Mol	Chain	Length	Quality of chain
8	PJ	17	12% 94% 6%
8	PK	17	12% 94% 6%
8	PP	17	12% 94% 6%
8	PS	17	12% 94% 6%
8	QD	17	12% 76% 18% 6%
8	QJ	17	12% 76% 18% 6%
8	QK	17	12% 76% 18% 6%
8	QP	17	6% 76% 18% 6%
8	QS	17	12% 76% 18% 6%
8	RD	17	29% 71% 29%
8	RJ	17	18% 71% 29%
8	RK	17	29% 71% 29%
8	RP	17	29% 71% 29%
8	RS	17	29% 71% 29%

2 Entry composition (i)

There are 8 unique types of molecules in this entry. The entry contains 1074183 atoms, of which 0 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 Major head protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	C1	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	A1	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	B1	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	D1	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	I1	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	J1	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	K1	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	L1	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	Q1	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	R1	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	S1	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	T1	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	X1	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	Y1	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	Z1	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	a1	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	f1	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g1	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	h1	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	i1	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	C3	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	A3	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	B3	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	D3	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	I3	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	J3	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	K3	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	L3	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	Q3	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	R3	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	S3	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	T3	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	Y3	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	b3	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	C4	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	A4	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	B4	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	D4	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	I4	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	J4	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	K4	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	L4	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	Q4	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	R4	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	S4	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	T4	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	X4	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	Y4	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	Z4	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	a4	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	f4	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	g4	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	h4	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	i4	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	C6	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	A6	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	B6	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	D6	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	I6	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	J6	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	K6	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	L6	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	Q6	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	R6	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	S6	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	T6	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	Y6	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	Z6	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	a6	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	b6	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	g6	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	h6	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	i6	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	j6	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	C7	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	A7	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	B7	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	D7	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	I7	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	J7	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	K7	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	L7	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	Q7	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	R7	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	S7	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	T7	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	Y7	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	Z7	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	a7	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	b7	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	g7	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	h7	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	i7	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	j7	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	C8	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	A8	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	B8	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	D8	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	I8	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	J8	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	K8	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	L8	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	Q8	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	R8	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	S8	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	T8	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	Y8	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	Z8	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	a8	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	b8	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	g8	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	h8	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	i8	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	j8	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	AD	354	Total	C	N	O	S	0	0
			2821	1810	463	541	7		
1	BD	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	CD	386	Total	C	N	O	S	0	0
			3135	2019	510	598	8		
1	DD	386	Total	C	N	O	S	0	0
			3131	2017	510	596	8		
1	KD	382	Total	C	N	O	S	0	0
			3103	1997	505	593	8		
1	LD	386	Total	C	N	O	S	0	0
			3135	2019	510	598	8		
1	DE	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	AE	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	BE	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	CE	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	FE	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	KE	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	LE	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	ME	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	NE	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	SE	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	TE	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	UE	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	VE	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	aE	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	bE	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	cE	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	dE	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	CG	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	AG	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	BG	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	DG	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	IG	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	JG	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	KG	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	LG	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	QG	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	RG	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	SG	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	TG	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	YG	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	ZG	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	aG	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	bG	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	gG	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	hG	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	iG	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	jG	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	AJ	354	Total	C	N	O	S	0	0
			2821	1810	463	541	7		
1	BJ	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	CJ	386	Total	C	N	O	S	0	0
			3135	2019	510	598	8		
1	DJ	386	Total	C	N	O	S	0	0
			3131	2017	510	596	8		
1	KJ	382	Total	C	N	O	S	0	0
			3103	1997	505	593	8		
1	LJ	386	Total	C	N	O	S	0	0
			3135	2019	510	598	8		
1	AK	354	Total	C	N	O	S	0	0
			2821	1810	463	541	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	BK	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	CK	386	Total	C	N	O	S	0	0
			3135	2019	510	598	8		
1	DK	386	Total	C	N	O	S	0	0
			3131	2017	510	596	8		
1	KK	382	Total	C	N	O	S	0	0
			3103	1997	505	593	8		
1	LK	386	Total	C	N	O	S	0	0
			3135	2019	510	598	8		
1	CL	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	AL	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	BL	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	DL	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	IL	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	JL	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	KL	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	LL	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	QL	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	RL	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	SL	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	TL	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	YL	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	ZL	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	aL	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	bL	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	gL	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	AP	354	Total	C	N	O	S	0	0
			2821	1810	463	541	7		
1	BP	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	CP	386	Total	C	N	O	S	0	0
			3135	2019	510	598	8		
1	DP	386	Total	C	N	O	S	0	0
			3131	2017	510	596	8		
1	KP	382	Total	C	N	O	S	0	0
			3103	1997	505	593	8		
1	LP	386	Total	C	N	O	S	0	0
			3135	2019	510	598	8		
1	CQ	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	AQ	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	BQ	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	DQ	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	IQ	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	JQ	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	KQ	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	LQ	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	QQ	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	RQ	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	SQ	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	TQ	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	YQ	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	bQ	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	cQ	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	dQ	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	eQ	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	CR	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	AR	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	BR	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	DR	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	IR	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	JR	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	KR	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	LR	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	QR	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	RR	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	SR	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	TR	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	YR	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	ZR	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		
1	aR	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	bR	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	gR	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	hR	392	Total	C	N	O	S	0	0
			3178	2044	518	608	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	iR	385	Total	C	N	O	S	0	0
			3123	2013	508	594	8		
1	jR	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	AS	393	Total	C	N	O	S	0	0
			3190	2050	520	612	8		
1	BS	386	Total	C	N	O	S	0	0
			3135	2019	510	598	8		
1	CS	386	Total	C	N	O	S	0	0
			3131	2017	510	596	8		
1	IS	354	Total	C	N	O	S	0	0
			2821	1810	463	541	7		
1	JS	382	Total	C	N	O	S	0	0
			3103	1997	505	593	8		
1	KS	386	Total	C	N	O	S	0	0
			3135	2019	510	598	8		

- Molecule 2 is a protein called Arstotzka protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	E1	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	F1	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	G1	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	H1	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	M1	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	N1	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	O1	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	P1	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	U1	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	V1	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	W1	55	Total	C	N	O	S	0	0
			435	260	77	93	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	b1	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	c1	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	d1	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	e1	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	j1	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	k1	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	l1	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	m1	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	E3	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	F3	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	G3	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	H3	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	M3	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	N3	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	O3	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	P3	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	U3	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	V3	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	W3	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	X3	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	Z3	54	Total	C	N	O	S	0	0
			432	258	76	93	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	a3	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	c3	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	d3	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	E4	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	F4	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	G4	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	H4	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	M4	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	N4	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	O4	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	P4	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	U4	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	V4	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	W4	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	b4	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	c4	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	d4	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	e4	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	j4	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	k4	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	l4	55	Total	C	N	O	S	0	0
			435	260	77	93	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	E6	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	F6	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	G6	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	H6	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	M6	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	N6	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	O6	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	P6	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	U6	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	V6	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	W6	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	X6	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	c6	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	d6	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	e6	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	f6	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	k6	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	l6	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	m6	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	n6	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	E7	54	Total	C	N	O	S	0	0
			432	258	76	93	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	F7	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	G7	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	H7	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	M7	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	N7	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	O7	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	P7	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	U7	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	V7	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	W7	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	X7	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	c7	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	d7	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	e7	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	f7	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	k7	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	l7	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	m7	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	n7	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	E8	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	F8	55	Total	C	N	O	S	0	0
			436	260	77	94	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	G8	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	H8	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	M8	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	N8	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	O8	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	P8	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	U8	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	V8	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	W8	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	X8	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	c8	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	d8	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	e8	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	f8	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	k8	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	l8	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	m8	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	n8	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	ED	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	FD	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	GD	30	Total	C	N	O	S	0	0
			237	143	39	54	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	HD	54	Total	C	N	O	S	0	0
			433	258	76	94	5		
2	MD	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	ND	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	EE	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	GE	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	HE	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	IE	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	JE	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	OE	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	PE	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	QE	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	RE	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	WE	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	XE	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	YE	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	ZE	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	eE	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	fE	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	gE	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	hE	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	EG	54	Total	C	N	O	S	0	0
			432	258	76	93	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	FG	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	GG	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	HG	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	MG	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	NG	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	OG	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	PG	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	UG	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	VG	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	WG	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	XG	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	cG	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	dG	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	eG	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	fG	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	kG	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	lG	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	mG	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	nG	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	EJ	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	FJ	55	Total	C	N	O	S	0	0
			437	260	77	95	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	GJ	30	Total	C	N	O	S	0	0
			237	143	39	54	1		
2	HJ	54	Total	C	N	O	S	0	0
			433	258	76	94	5		
2	MJ	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	NJ	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	EK	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	FK	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	GK	30	Total	C	N	O	S	0	0
			237	143	39	54	1		
2	HK	54	Total	C	N	O	S	0	0
			433	258	76	94	5		
2	MK	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	NK	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	EL	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	FL	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	GL	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	HL	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	ML	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	NL	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	OL	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	PL	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	UL	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	VL	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	WL	27	Total	C	N	O	S	0	0
			221	130	41	46	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	XL	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	cL	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	dL	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	eL	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	fL	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	hL	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	iL	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	EP	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	FP	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	GP	30	Total	C	N	O	S	0	0
			237	143	39	54	1		
2	HP	54	Total	C	N	O	S	0	0
			433	258	76	94	5		
2	MP	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	NP	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	EQ	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	FQ	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	GQ	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	HQ	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	MQ	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	NQ	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	OQ	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	PQ	55	Total	C	N	O	S	0	0
			435	260	77	93	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	UQ	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	VQ	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	WQ	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	XQ	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	ZQ	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	aQ	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	fQ	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	gQ	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	hQ	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	iQ	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	ER	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	FR	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	GR	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	HR	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	MR	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	NR	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	OR	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	PR	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	UR	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	VR	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	WR	27	Total	C	N	O	S	0	0
			221	130	41	46	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	XR	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	cR	54	Total	C	N	O	S	0	0
			432	258	76	93	5		
2	dR	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	eR	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	fR	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	kR	55	Total	C	N	O	S	0	0
			436	260	77	94	5		
2	lR	27	Total	C	N	O	S	0	0
			221	130	41	46	4		
2	mR	55	Total	C	N	O	S	0	0
			435	260	77	93	5		
2	DS	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	ES	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	FS	30	Total	C	N	O	S	0	0
			237	143	39	54	1		
2	GS	54	Total	C	N	O	S	0	0
			433	258	76	94	5		
2	LS	55	Total	C	N	O	S	0	0
			437	260	77	95	5		
2	MS	55	Total	C	N	O	S	0	0
			437	260	77	95	5		

- Molecule 3 is a protein called Portal protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	A2	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		
3	A5	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		
3	A9	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		
3	AA	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		
3	AB	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	AC	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		
3	AF	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		
3	AH	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		
3	AI	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		
3	AM	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		
3	AN	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		
3	AO	301	Total	C	N	O	S	0	0
			2353	1486	398	460	9		

- Molecule 4 is a protein called Lower collar protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	B2	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		
4	B5	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		
4	B9	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		
4	BA	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		
4	BB	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		
4	BC	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		
4	BF	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		
4	BH	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		
4	BI	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		
4	BM	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		
4	BN	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		
4	BO	220	Total	C	N	O	S	0	0
			1763	1111	294	353	5		

- Molecule 5 is a protein called Minor structural protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	D2	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	E2	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	F2	110	Total	C	N	O	S	0	0
			927	595	155	174	3		
5	C2	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	N2	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	O2	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		
5	D5	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	E5	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	F5	110	Total	C	N	O	S	0	0
			927	595	155	174	3		
5	C5	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	N5	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	O5	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		
5	D9	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	E9	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	F9	110	Total	C	N	O	S	0	0
			927	595	155	174	3		
5	C9	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	N9	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	O9	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		
5	DA	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	EA	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	FA	110	Total	C	N	O	S	0	0
			927	595	155	174	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	CA	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	NA	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	OA	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		
5	DB	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	EB	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	FB	110	Total	C	N	O	S	0	0
			927	595	155	174	3		
5	CB	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	NB	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	OB	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		
5	DC	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	EC	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	FC	110	Total	C	N	O	S	0	0
			927	595	155	174	3		
5	CC	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	NC	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	OC	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		
5	DF	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	EF	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	FF	110	Total	C	N	O	S	0	0
			927	595	155	174	3		
5	CF	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	NF	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	OF	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	DH	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	EH	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	FH	110	Total	C	N	O	S	0	0
			927	595	155	174	3		
5	CH	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	NH	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	OH	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		
5	DI	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	EI	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	FI	110	Total	C	N	O	S	0	0
			927	595	155	174	3		
5	CI	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	NI	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	OI	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		
5	DM	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	EM	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	FM	110	Total	C	N	O	S	0	0
			927	595	155	174	3		
5	CM	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	NM	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	OM	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		
5	DN	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	EN	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	FN	110	Total	C	N	O	S	0	0
			927	595	155	174	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	CN	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	NN	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	ON	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		
5	DO	132	Total	C	N	O	S	0	0
			1107	718	178	208	3		
5	EO	136	Total	C	N	O	S	0	0
			1173	755	192	223	3		
5	FO	110	Total	C	N	O	S	0	0
			927	595	155	174	3		
5	CO	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	NO	501	Total	C	N	O	S	0	0
			4021	2545	690	771	15		
5	OO	500	Total	C	N	O	S	0	0
			4012	2539	688	770	15		

- Molecule 6 is a protein called Tail fibre protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
6	G2	18	Total	C	N	O	0	0
			90	54	18	18		
6	H2	18	Total	C	N	O	0	0
			90	54	18	18		
6	I2	24	Total	C	N	O	0	0
			120	72	24	24		
6	J2	24	Total	C	N	O	0	0
			120	72	24	24		
6	K2	22	Total	C	N	O	0	0
			112	67	22	23		
6	L2	24	Total	C	N	O	0	0
			120	72	24	24		
6	G5	18	Total	C	N	O	0	0
			90	54	18	18		
6	H5	18	Total	C	N	O	0	0
			90	54	18	18		
6	I5	24	Total	C	N	O	0	0
			120	72	24	24		
6	J5	24	Total	C	N	O	0	0
			120	72	24	24		

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Mol	Chain	Residues	Atoms				AltConf	Trace
6	K5	22	Total	C	N	O	0	0
			112	67	22	23		
6	L5	24	Total	C	N	O	0	0
			120	72	24	24		
6	G9	18	Total	C	N	O	0	0
			90	54	18	18		
6	H9	18	Total	C	N	O	0	0
			90	54	18	18		
6	I9	24	Total	C	N	O	0	0
			120	72	24	24		
6	J9	24	Total	C	N	O	0	0
			120	72	24	24		
6	K9	22	Total	C	N	O	0	0
			112	67	22	23		
6	L9	24	Total	C	N	O	0	0
			120	72	24	24		
6	GA	18	Total	C	N	O	0	0
			90	54	18	18		
6	HA	18	Total	C	N	O	0	0
			90	54	18	18		
6	IA	24	Total	C	N	O	0	0
			120	72	24	24		
6	JA	24	Total	C	N	O	0	0
			120	72	24	24		
6	KA	22	Total	C	N	O	0	0
			112	67	22	23		
6	LA	24	Total	C	N	O	0	0
			120	72	24	24		
6	GB	18	Total	C	N	O	0	0
			90	54	18	18		
6	HB	18	Total	C	N	O	0	0
			90	54	18	18		
6	IB	24	Total	C	N	O	0	0
			120	72	24	24		
6	JB	24	Total	C	N	O	0	0
			120	72	24	24		
6	KB	22	Total	C	N	O	0	0
			112	67	22	23		
6	LB	24	Total	C	N	O	0	0
			120	72	24	24		
6	GC	18	Total	C	N	O	0	0
			90	54	18	18		

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Mol	Chain	Residues	Atoms				AltConf	Trace
6	HC	18	Total	C	N	O	0	0
			90	54	18	18		
6	IC	24	Total	C	N	O	0	0
			120	72	24	24		
6	JC	24	Total	C	N	O	0	0
			120	72	24	24		
6	KC	22	Total	C	N	O	0	0
			112	67	22	23		
6	LC	24	Total	C	N	O	0	0
			120	72	24	24		
6	GF	18	Total	C	N	O	0	0
			90	54	18	18		
6	HF	18	Total	C	N	O	0	0
			90	54	18	18		
6	IF	24	Total	C	N	O	0	0
			120	72	24	24		
6	JF	24	Total	C	N	O	0	0
			120	72	24	24		
6	KF	22	Total	C	N	O	0	0
			112	67	22	23		
6	LF	24	Total	C	N	O	0	0
			120	72	24	24		
6	GH	18	Total	C	N	O	0	0
			90	54	18	18		
6	HH	18	Total	C	N	O	0	0
			90	54	18	18		
6	IH	24	Total	C	N	O	0	0
			120	72	24	24		
6	JH	24	Total	C	N	O	0	0
			120	72	24	24		
6	KH	22	Total	C	N	O	0	0
			112	67	22	23		
6	LH	24	Total	C	N	O	0	0
			120	72	24	24		
6	GI	18	Total	C	N	O	0	0
			90	54	18	18		
6	HI	18	Total	C	N	O	0	0
			90	54	18	18		
6	II	24	Total	C	N	O	0	0
			120	72	24	24		
6	JI	24	Total	C	N	O	0	0
			120	72	24	24		

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Mol	Chain	Residues	Atoms				AltConf	Trace
6	KI	22	Total	C	N	O	0	0
			112	67	22	23		
6	LI	24	Total	C	N	O	0	0
			120	72	24	24		
6	GM	18	Total	C	N	O	0	0
			90	54	18	18		
6	HM	18	Total	C	N	O	0	0
			90	54	18	18		
6	IM	24	Total	C	N	O	0	0
			120	72	24	24		
6	JM	24	Total	C	N	O	0	0
			120	72	24	24		
6	KM	22	Total	C	N	O	0	0
			112	67	22	23		
6	LM	24	Total	C	N	O	0	0
			120	72	24	24		
6	GN	18	Total	C	N	O	0	0
			90	54	18	18		
6	HN	18	Total	C	N	O	0	0
			90	54	18	18		
6	IN	24	Total	C	N	O	0	0
			120	72	24	24		
6	JN	24	Total	C	N	O	0	0
			120	72	24	24		
6	KN	22	Total	C	N	O	0	0
			112	67	22	23		
6	LN	24	Total	C	N	O	0	0
			120	72	24	24		
6	GO	18	Total	C	N	O	0	0
			90	54	18	18		
6	HO	18	Total	C	N	O	0	0
			90	54	18	18		
6	IO	24	Total	C	N	O	0	0
			120	72	24	24		
6	JO	24	Total	C	N	O	0	0
			120	72	24	24		
6	KO	22	Total	C	N	O	0	0
			112	67	22	23		
6	LO	24	Total	C	N	O	0	0
			120	72	24	24		

- Molecule 7 is a protein called Head fiber protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
7	ID	55	Total	C	N	O	0	0
			275	165	55	55		
7	OD	55	Total	C	N	O	0	0
			275	165	55	55		
7	SD	55	Total	C	N	O	0	0
			275	165	55	55		
7	IJ	55	Total	C	N	O	0	0
			275	165	55	55		
7	OJ	55	Total	C	N	O	0	0
			275	165	55	55		
7	SJ	55	Total	C	N	O	0	0
			275	165	55	55		
7	IK	55	Total	C	N	O	0	0
			275	165	55	55		
7	OK	55	Total	C	N	O	0	0
			275	165	55	55		
7	SK	55	Total	C	N	O	0	0
			275	165	55	55		
7	IP	55	Total	C	N	O	0	0
			275	165	55	55		
7	OP	55	Total	C	N	O	0	0
			275	165	55	55		
7	SP	55	Total	C	N	O	0	0
			275	165	55	55		
7	HS	55	Total	C	N	O	0	0
			275	165	55	55		
7	NS	55	Total	C	N	O	0	0
			275	165	55	55		
7	SS	55	Total	C	N	O	0	0
			275	165	55	55		

- Molecule 8 is a protein called Inner core protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
8	PD	17	Total	C	N	O	0	0
			85	51	17	17		
8	QD	16	Total	C	N	O	0	0
			79	47	16	16		
8	RD	12	Total	C	N	O	0	0
			54	30	12	12		
8	PJ	17	Total	C	N	O	0	0
			85	51	17	17		
8	QJ	16	Total	C	N	O	0	0
			79	47	16	16		

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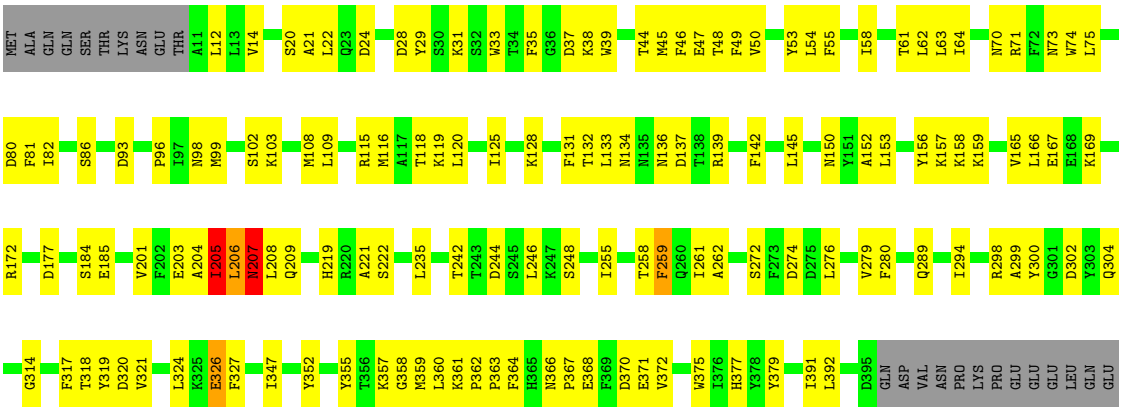
Mol	Chain	Residues	Atoms				AltConf	Trace
8	RJ	12	Total	C	N	O	0	0
			54	30	12	12		
8	PK	17	Total	C	N	O	0	0
			85	51	17	17		
8	QK	16	Total	C	N	O	0	0
			79	47	16	16		
8	RK	12	Total	C	N	O	0	0
			54	30	12	12		
8	PP	17	Total	C	N	O	0	0
			85	51	17	17		
8	QP	16	Total	C	N	O	0	0
			79	47	16	16		
8	RP	12	Total	C	N	O	0	0
			54	30	12	12		
8	PS	17	Total	C	N	O	0	0
			85	51	17	17		
8	QS	16	Total	C	N	O	0	0
			79	47	16	16		
8	RS	12	Total	C	N	O	0	0
			54	30	12	12		

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.

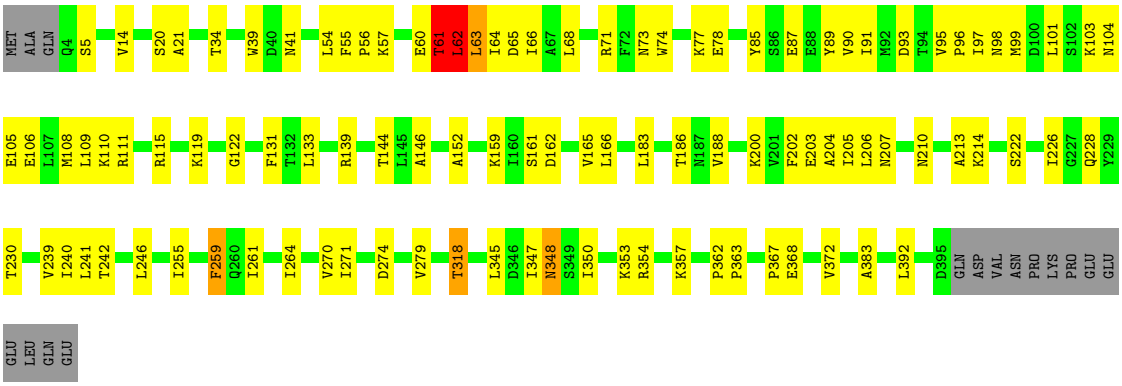
• Molecule 1: Major head protein

Chain C1:



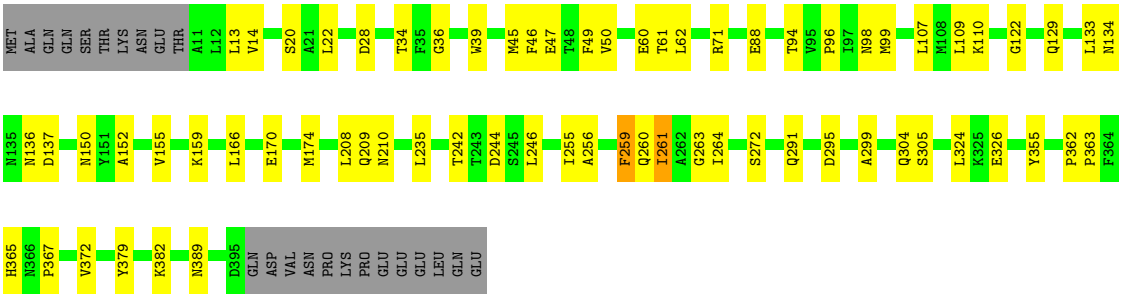
• Molecule 1: Major head protein

Chain A1:



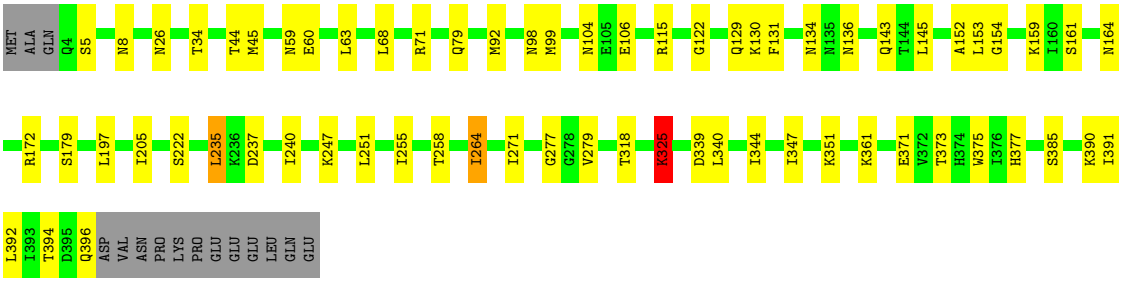
• Molecule 1: Major head protein

Chain B1:



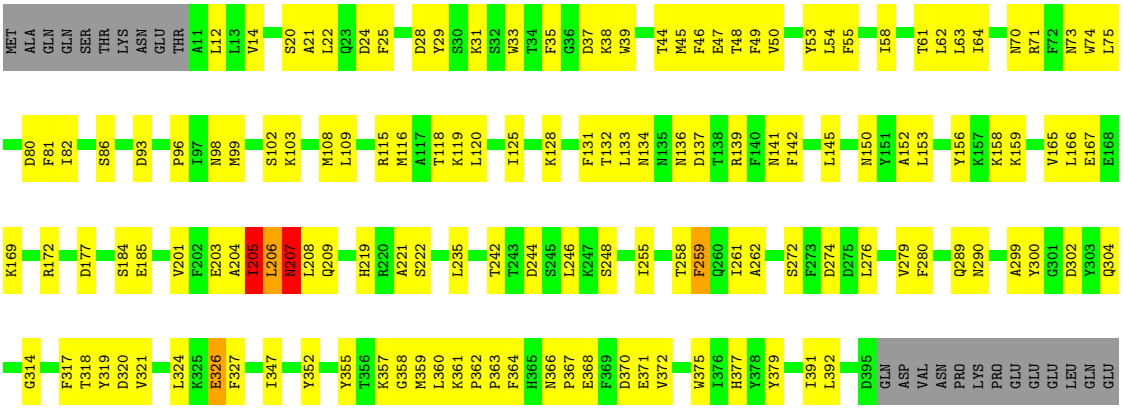
• Molecule 1: Major head protein

Chain D1:



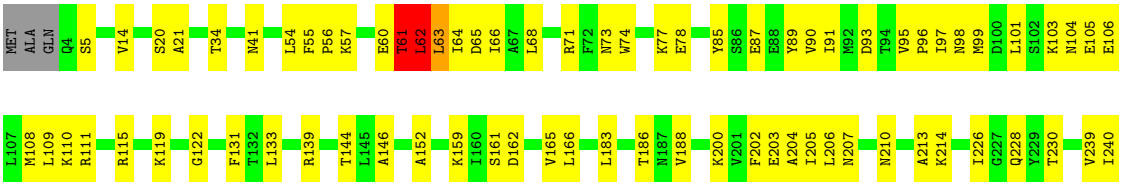
• Molecule 1: Major head protein

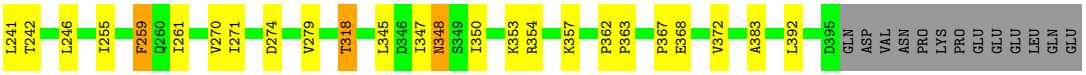
Chain I1:



• Molecule 1: Major head protein

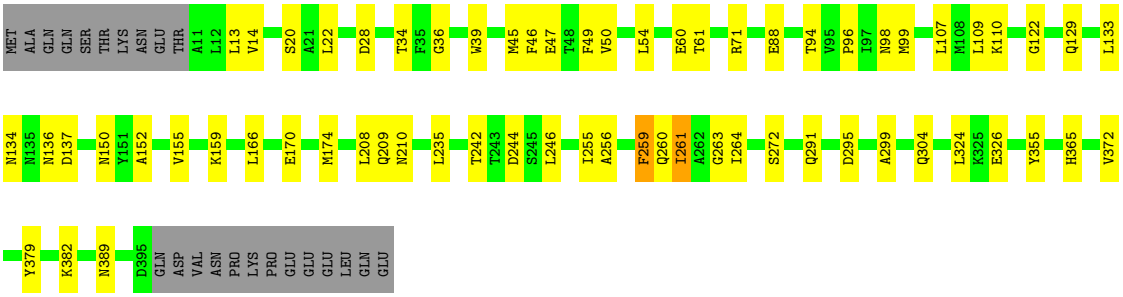
Chain J1:





• Molecule 1: Major head protein

Chain K1:

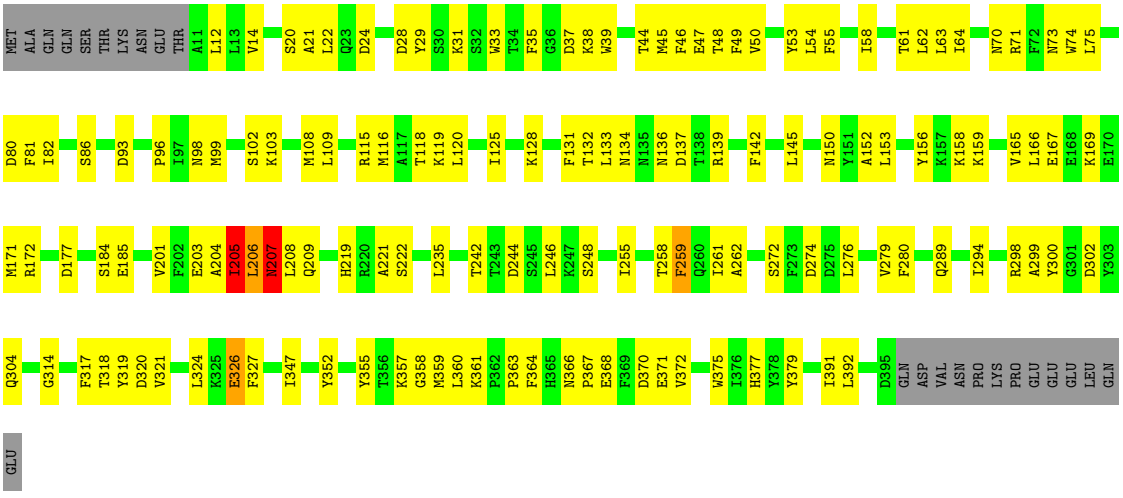


• Molecule 1: Major head protein

Chain L1:

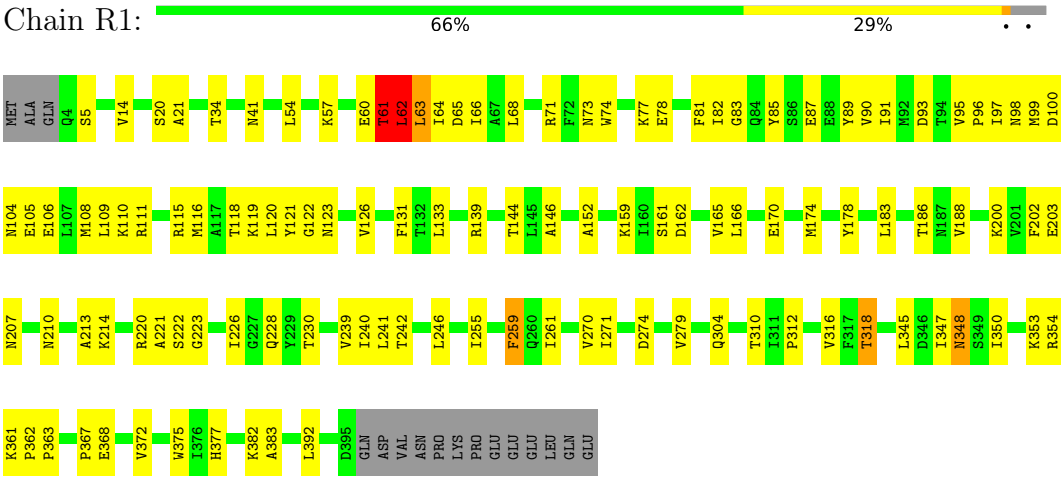
• Molecule 1: Major head protein

Chain Q1:



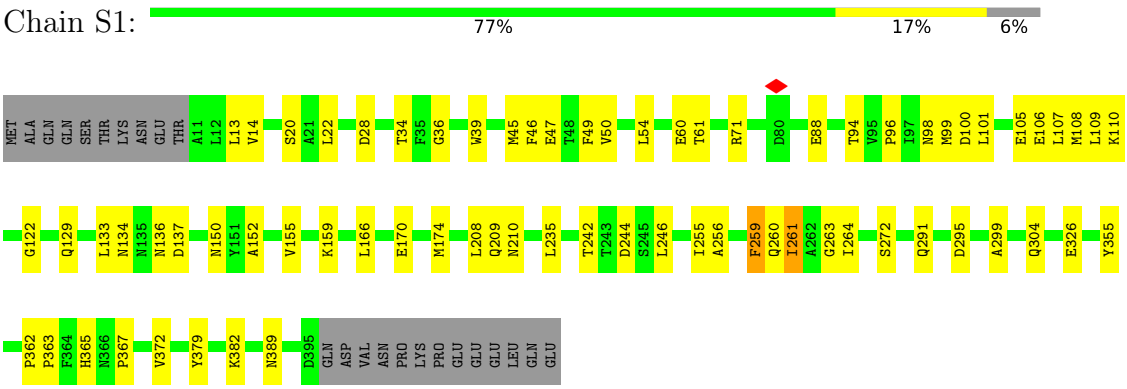
• Molecule 1: Major head protein

Chain R1:



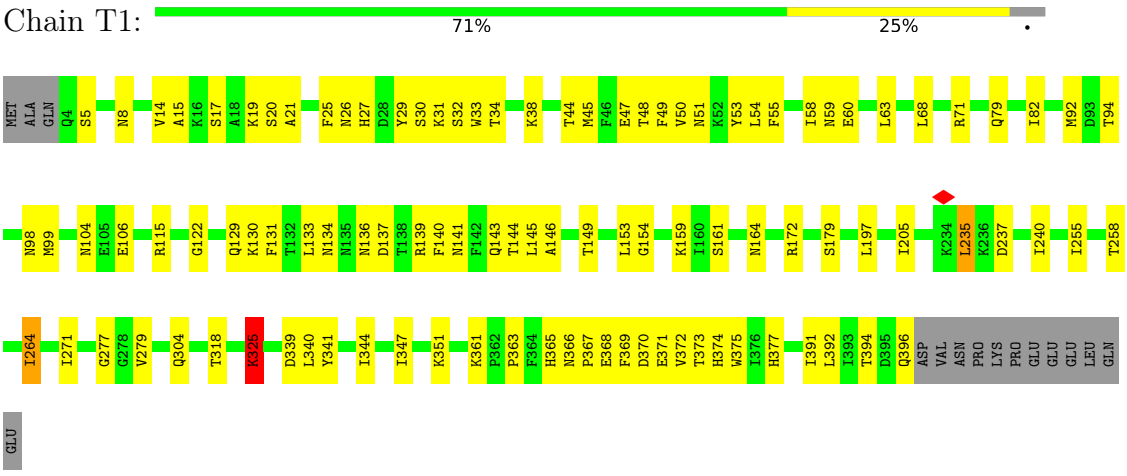
• Molecule 1: Major head protein

Chain S1:



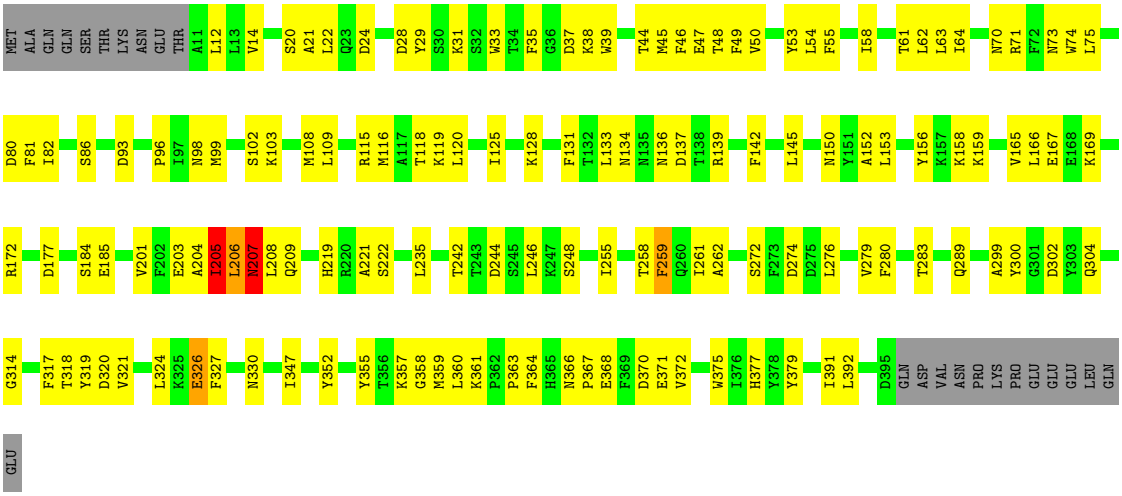
• Molecule 1: Major head protein

Chain T1:



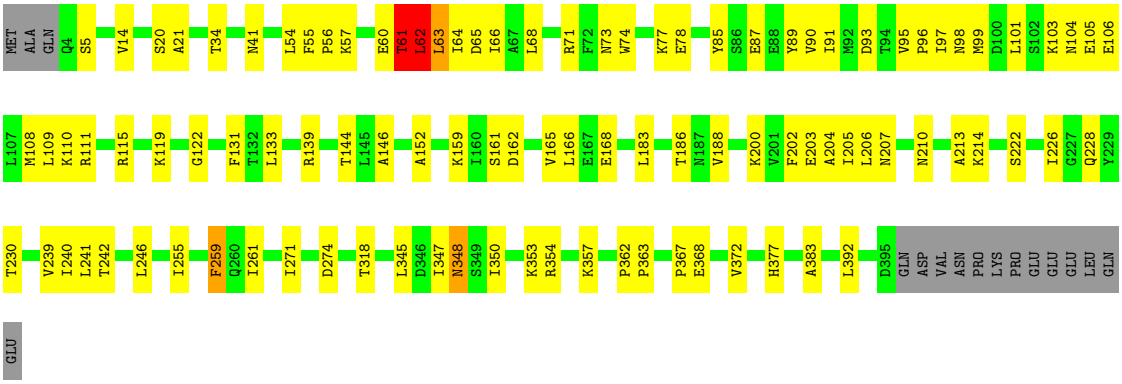
• Molecule 1: Major head protein

Chain X1:



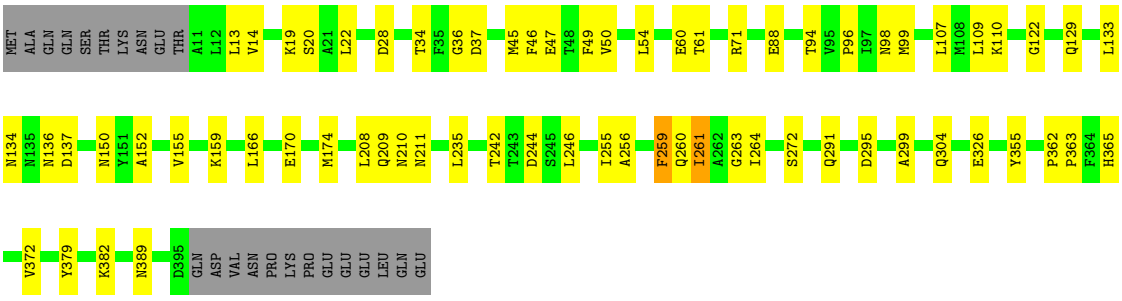
• Molecule 1: Major head protein

Chain Y1:



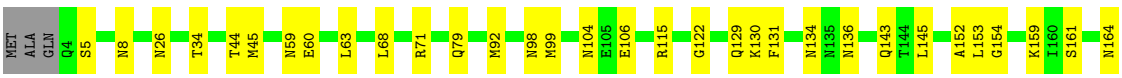
• Molecule 1: Major head protein

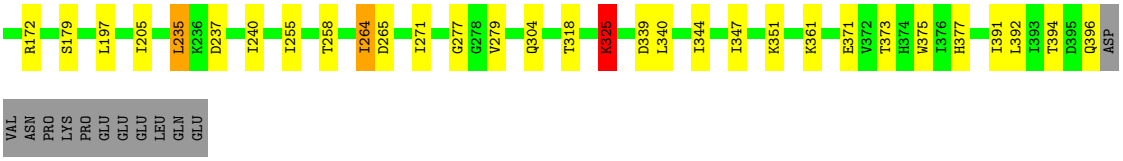
Chain Z1:



• Molecule 1: Major head protein

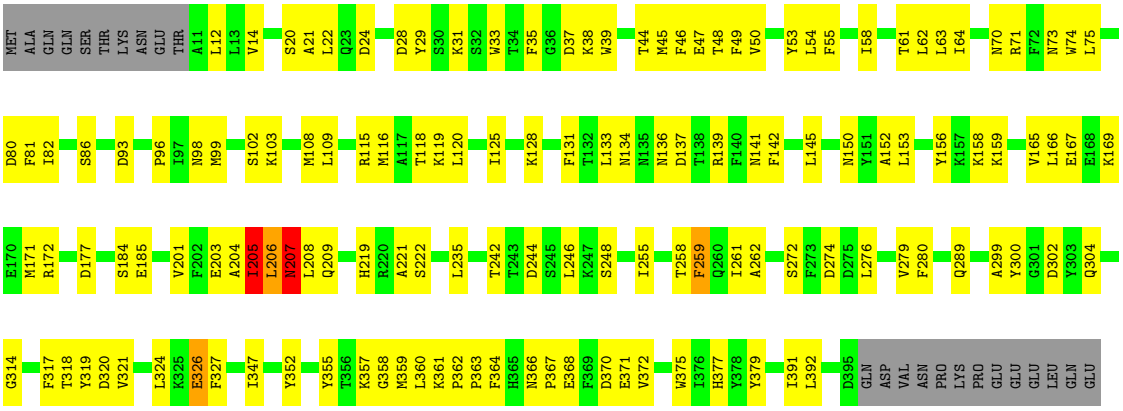
Chain a1:





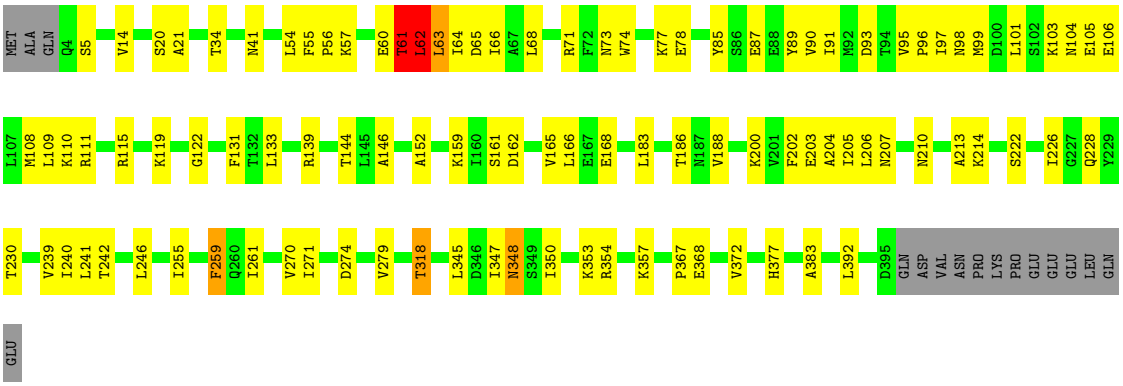
• Molecule 1: Major head protein

Chain f1:



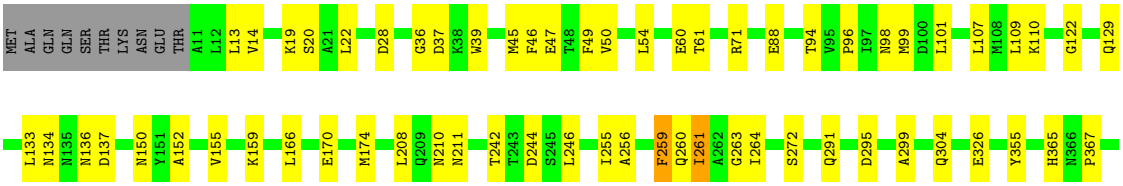
• Molecule 1: Major head protein

Chain g1:



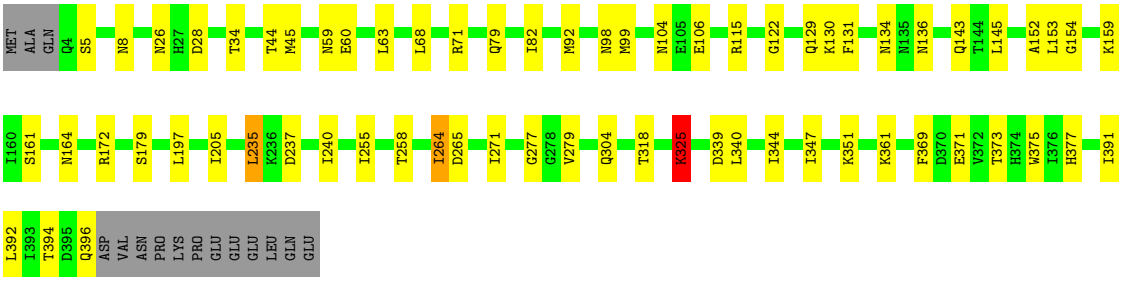
• Molecule 1: Major head protein

Chain h1:



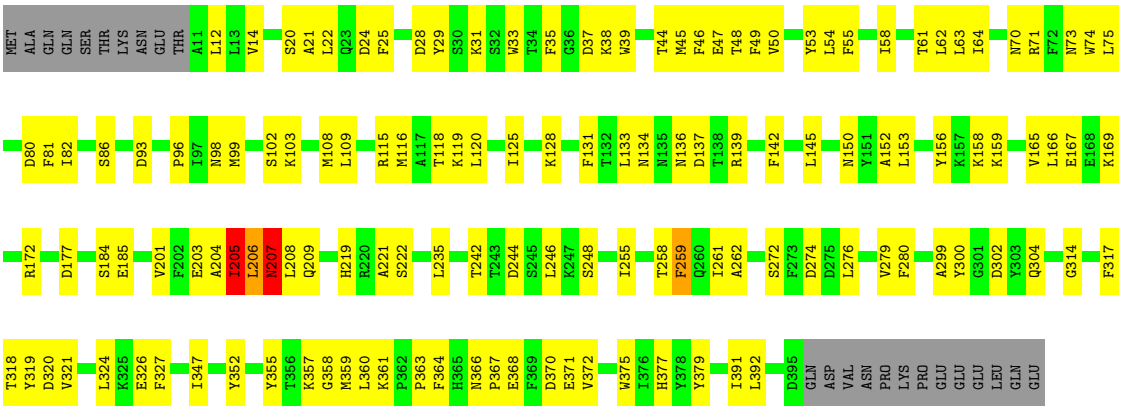
• Molecule 1: Major head protein

Chain i1:



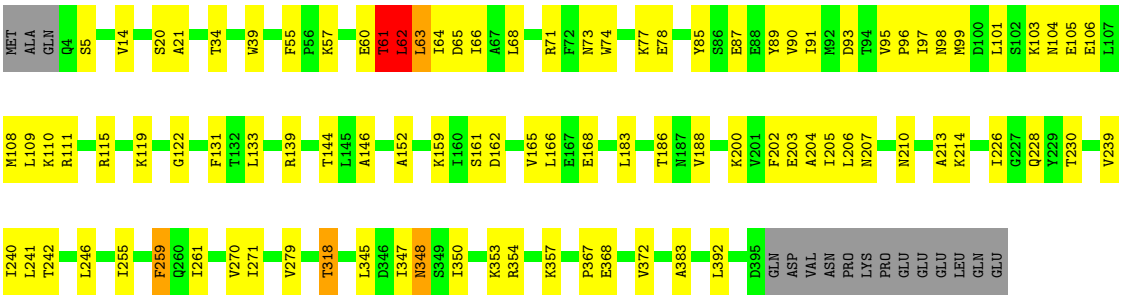
• Molecule 1: Major head protein

Chain C3:



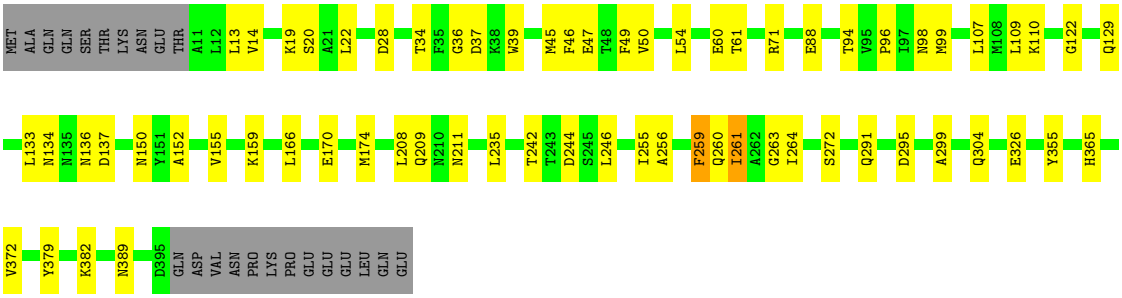
• Molecule 1: Major head protein

Chain A3:



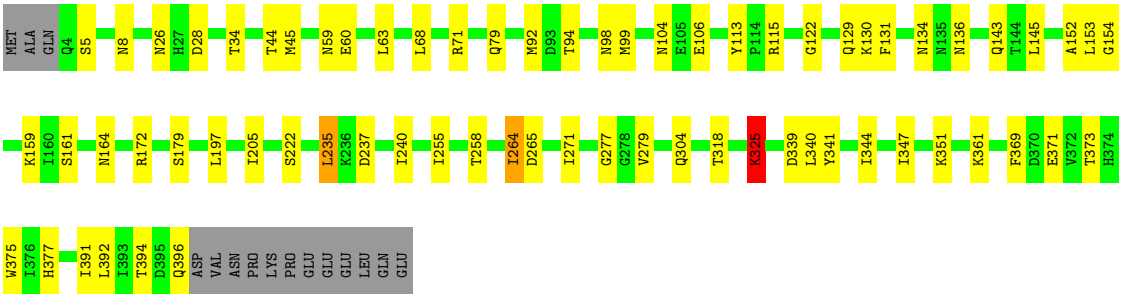
• Molecule 1: Major head protein

Chain B3:



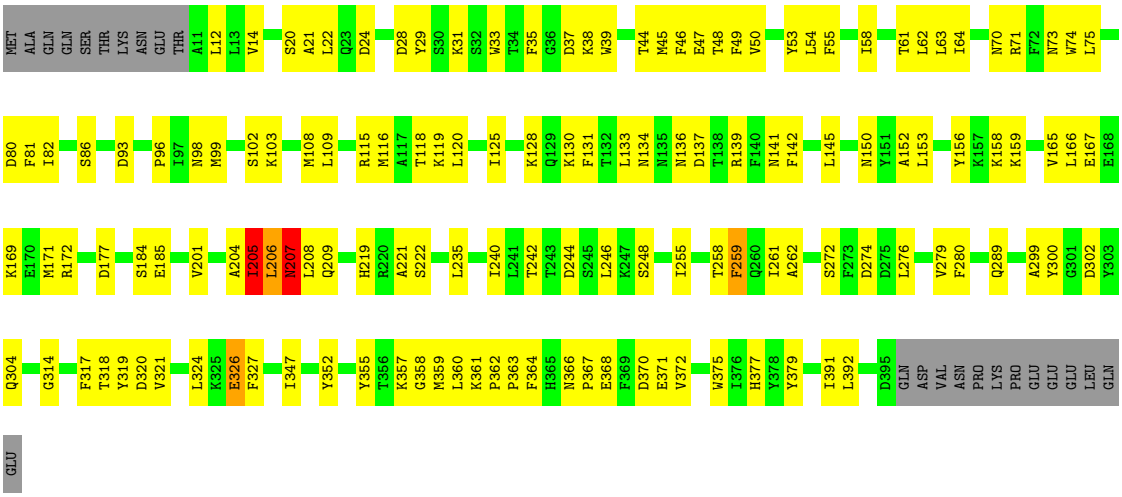
• Molecule 1: Major head protein

Chain D3:



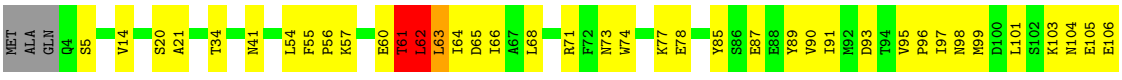
• Molecule 1: Major head protein

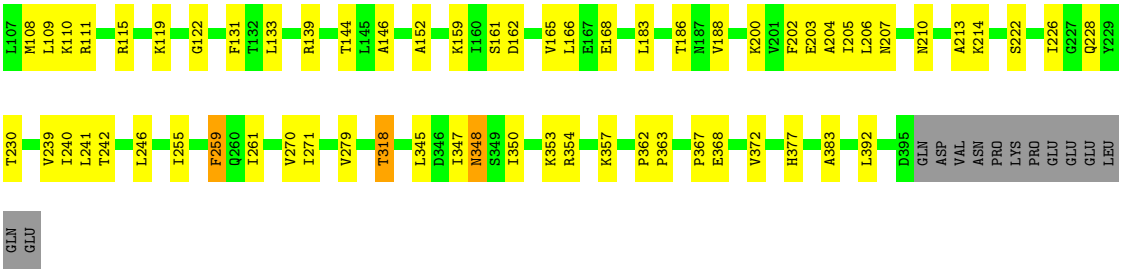
Chain I3:



• Molecule 1: Major head protein

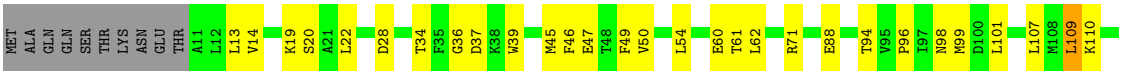
Chain J3:





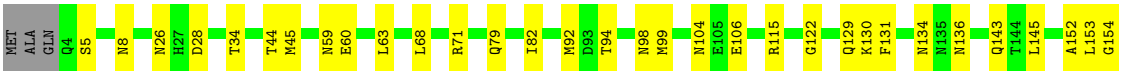
• Molecule 1: Major head protein

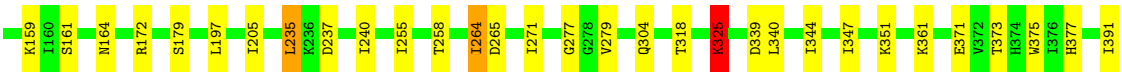
Chain K3:



• Molecule 1: Major head protein

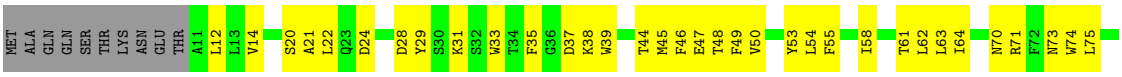
Chain L3:

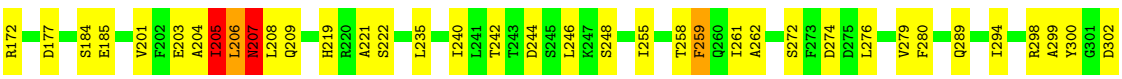




• Molecule 1: Major head protein

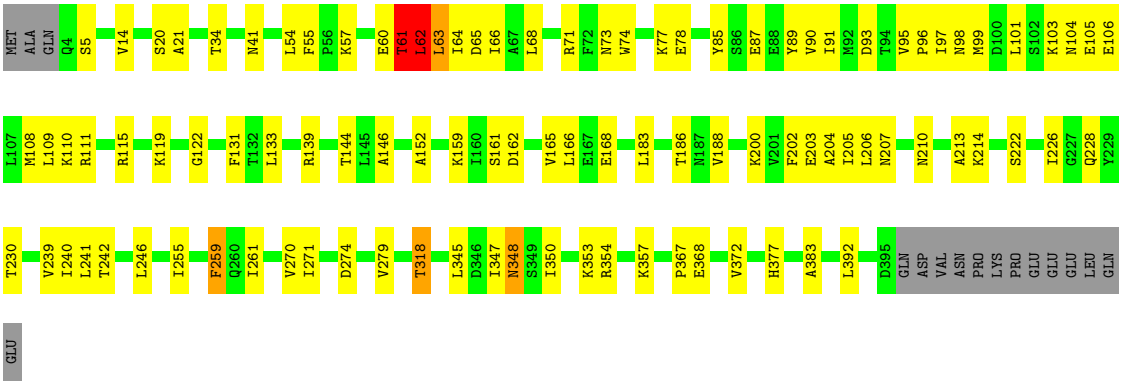
Chain Q3:





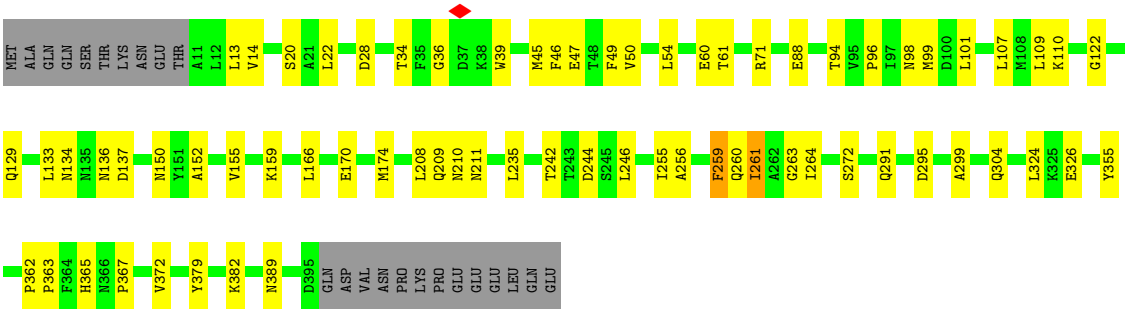
• Molecule 1: Major head protein

Chain R3:



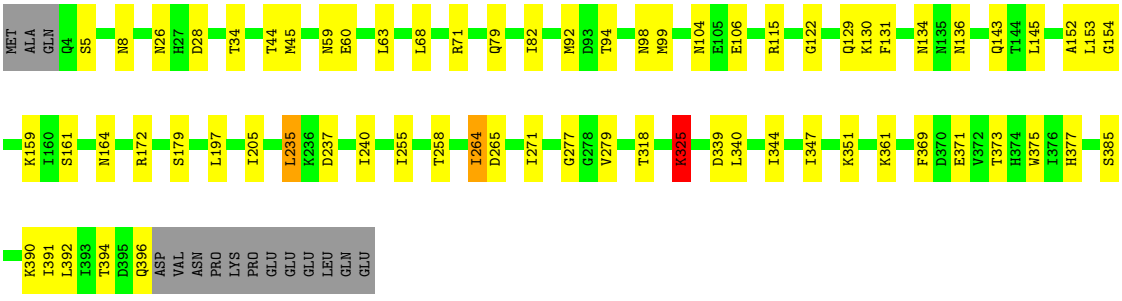
• Molecule 1: Major head protein

Chain S3:



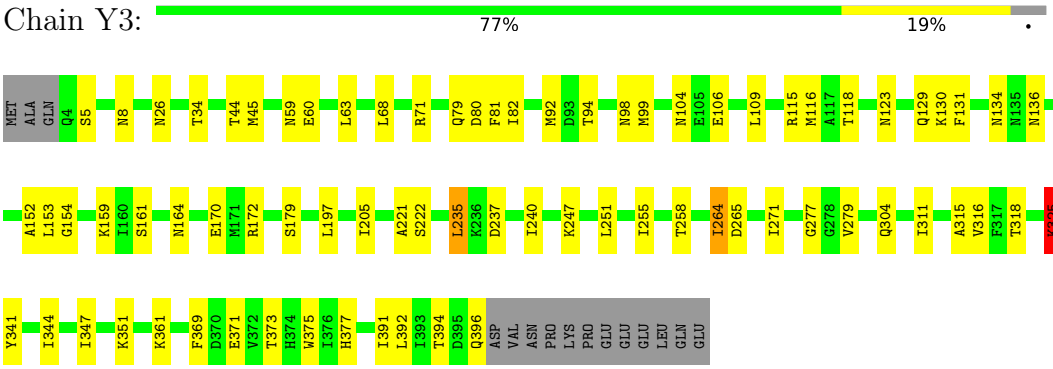
• Molecule 1: Major head protein

Chain T3:



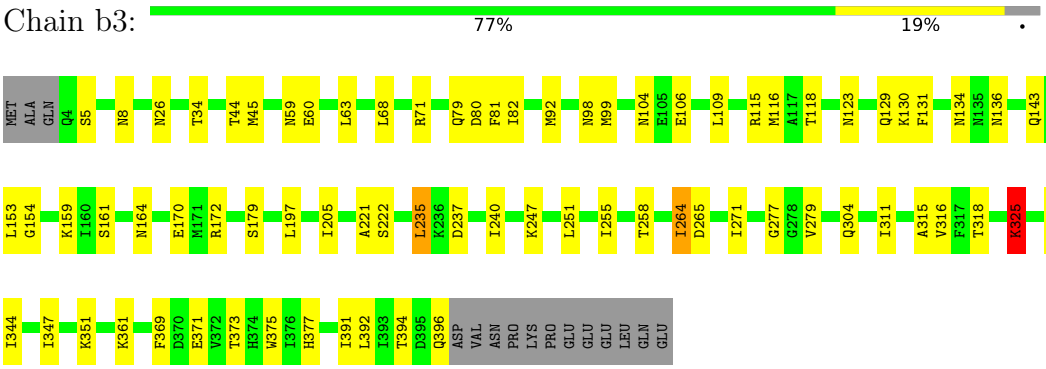
• Molecule 1: Major head protein

Chain Y3:



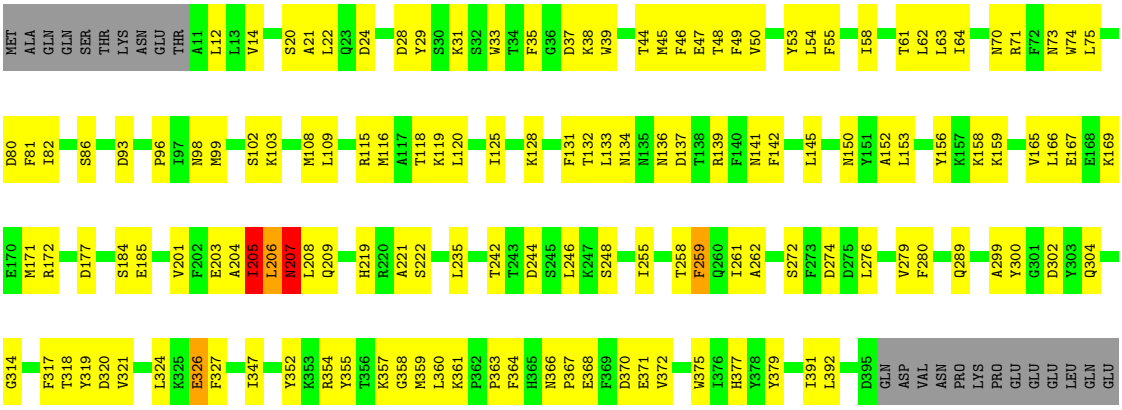
• Molecule 1: Major head protein

Chain b3:



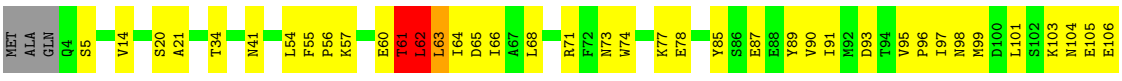
• Molecule 1: Major head protein

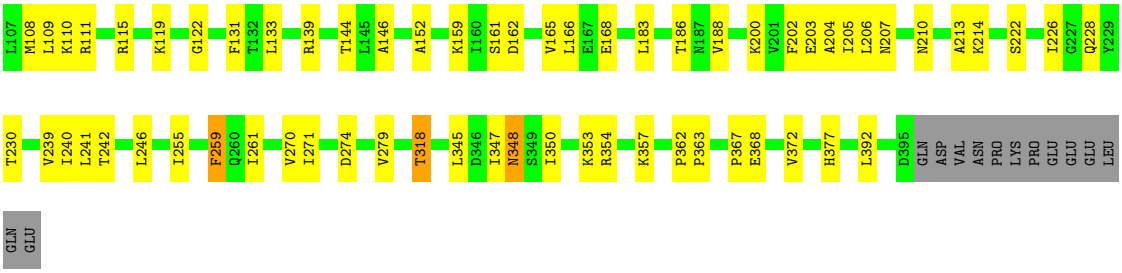
Chain C4:



• Molecule 1: Major head protein

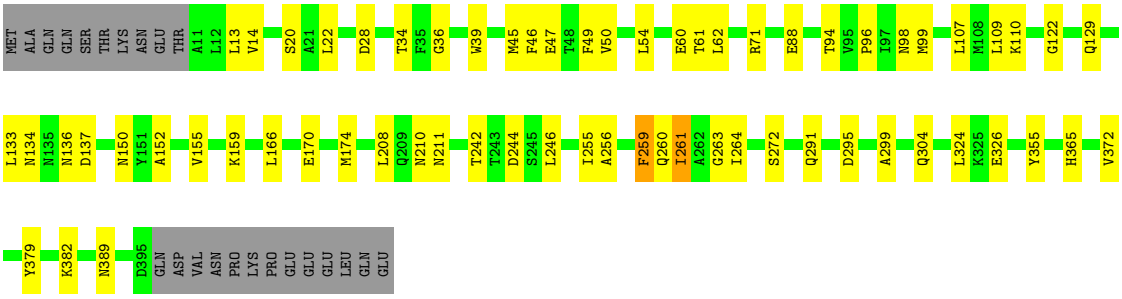
Chain A4:





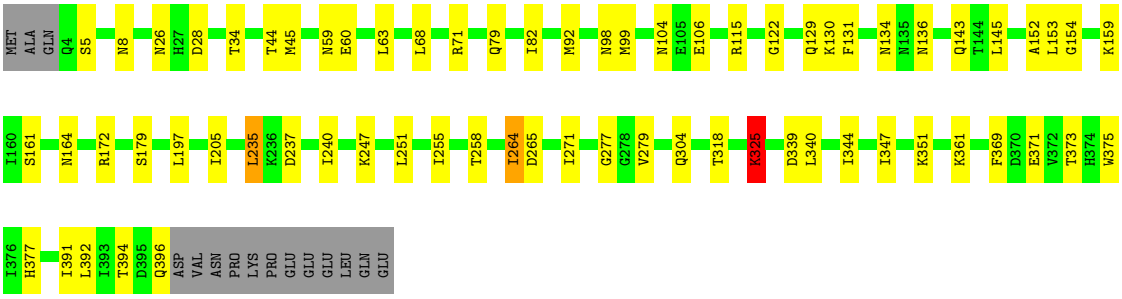
• Molecule 1: Major head protein

Chain B4:



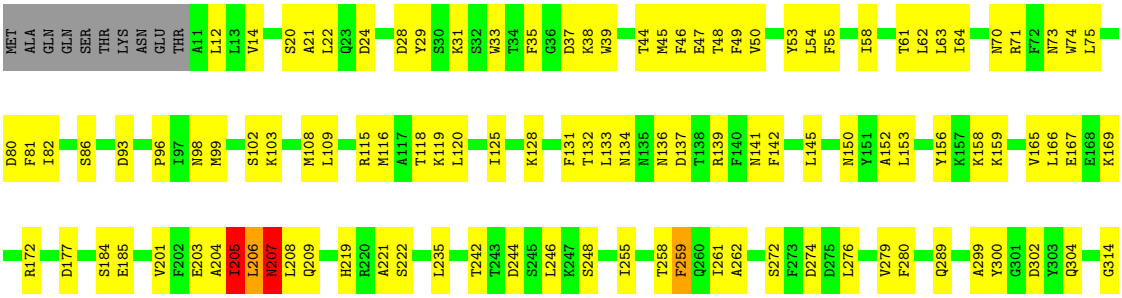
• Molecule 1: Major head protein

Chain D4:



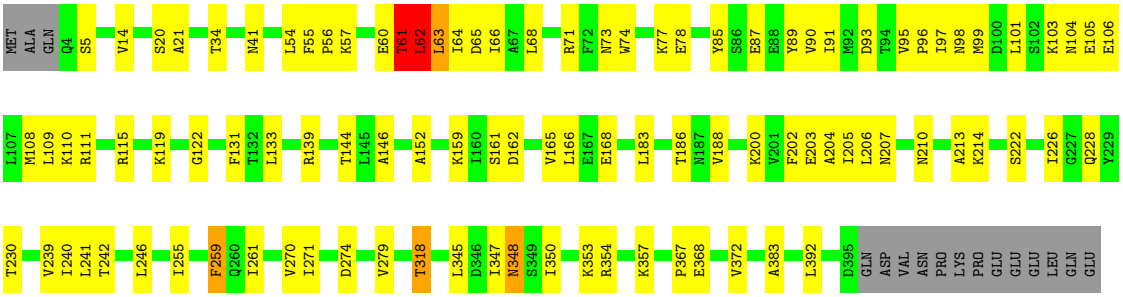
• Molecule 1: Major head protein

Chain I4:



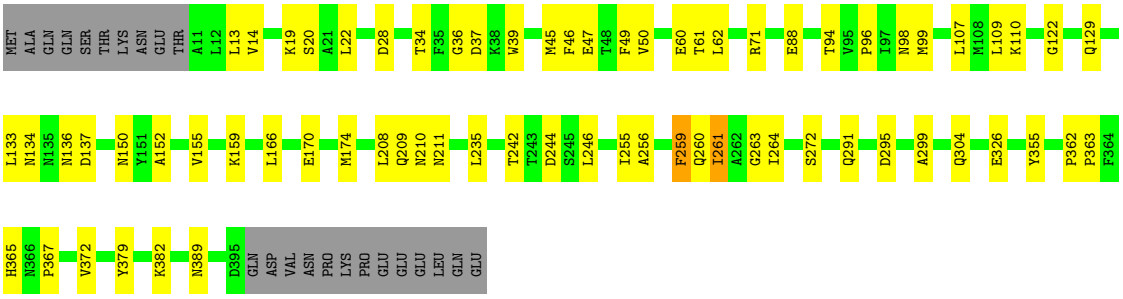
• Molecule 1: Major head protein

Chain J4:



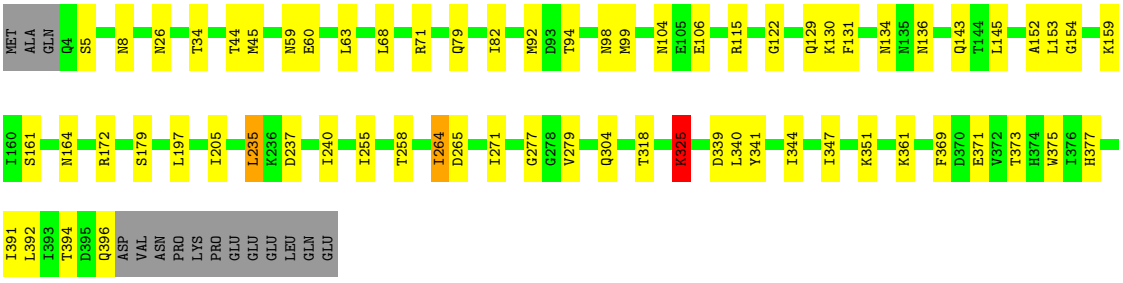
• Molecule 1: Major head protein

Chain K4:



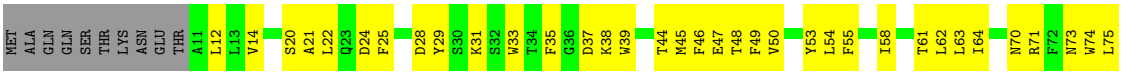
• Molecule 1: Major head protein

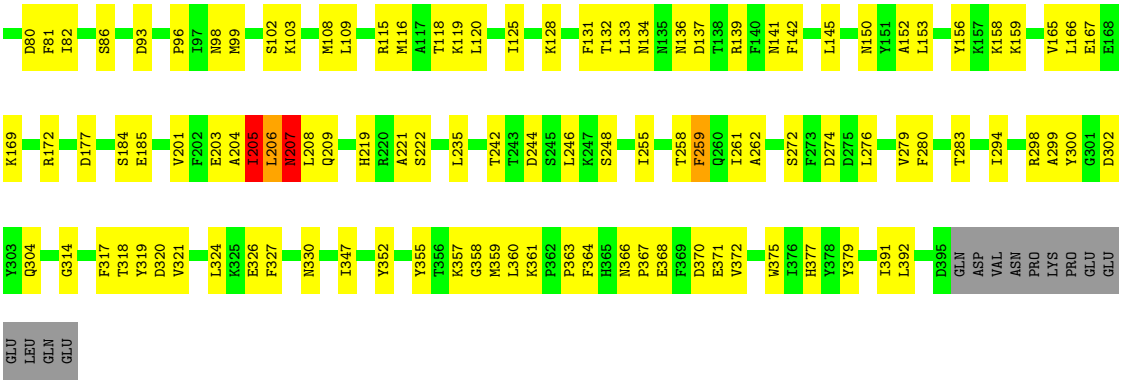
Chain L4:



• Molecule 1: Major head protein

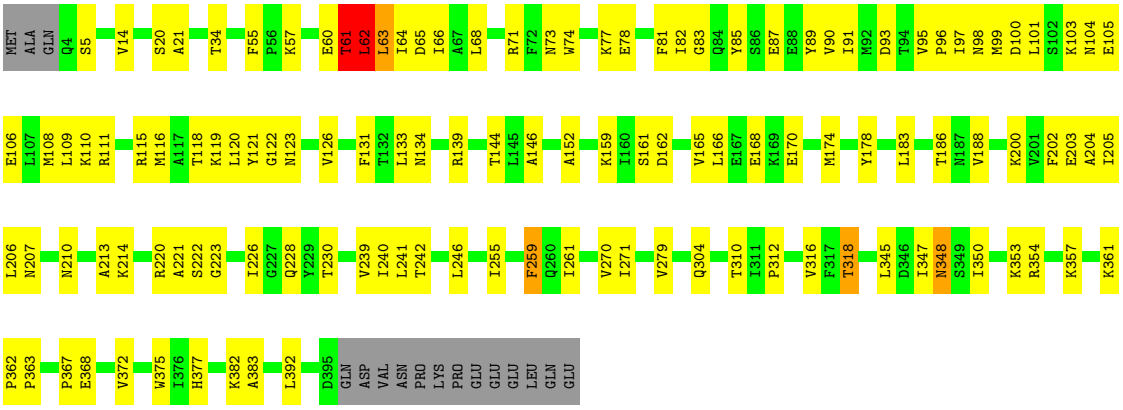
Chain Q4:





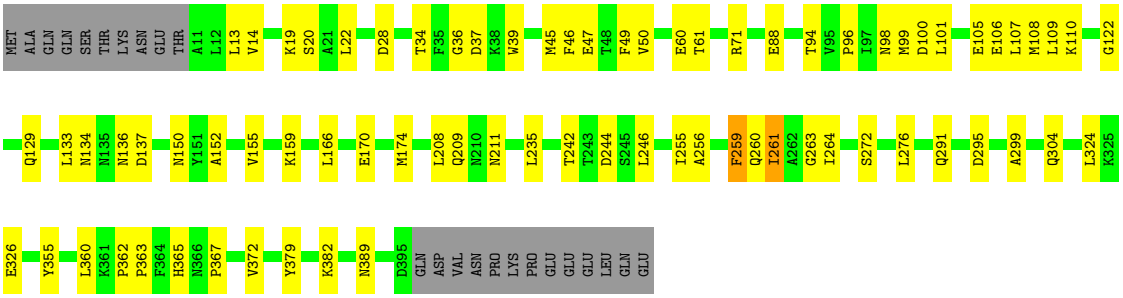
• Molecule 1: Major head protein

Chain R4:



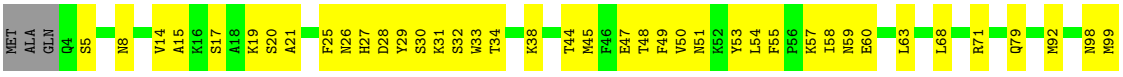
• Molecule 1: Major head protein

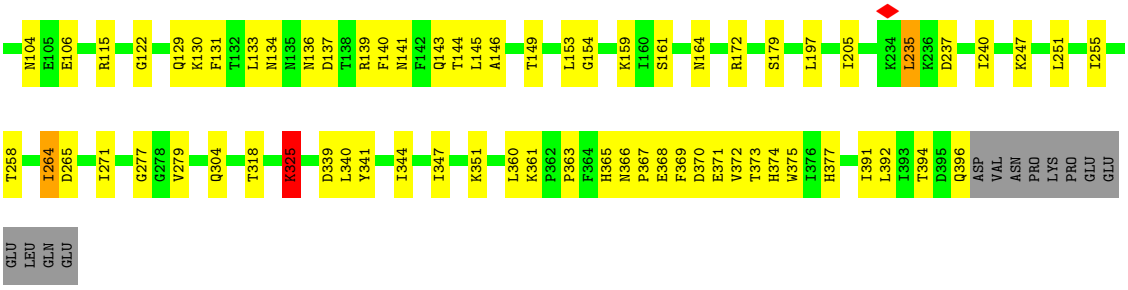
Chain S4:



• Molecule 1: Major head protein

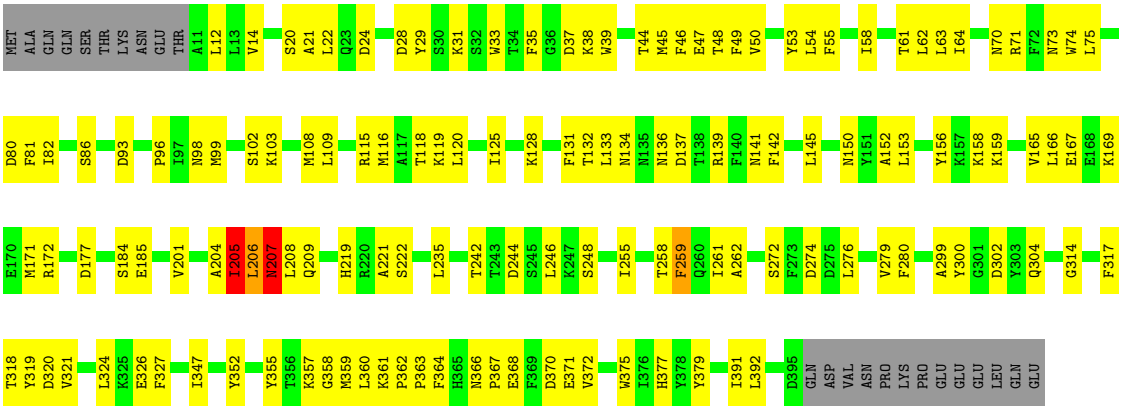
Chain T4:





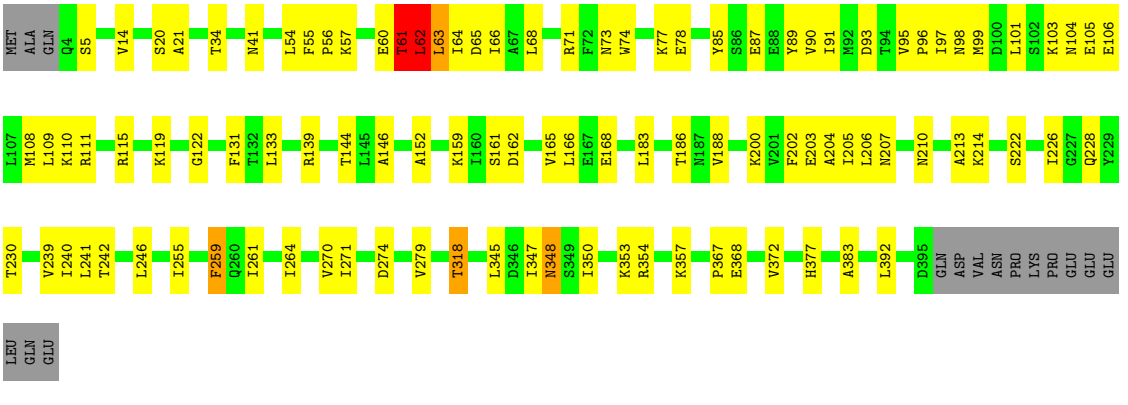
• Molecule 1: Major head protein

Chain X4:



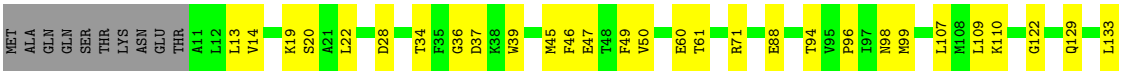
• Molecule 1: Major head protein

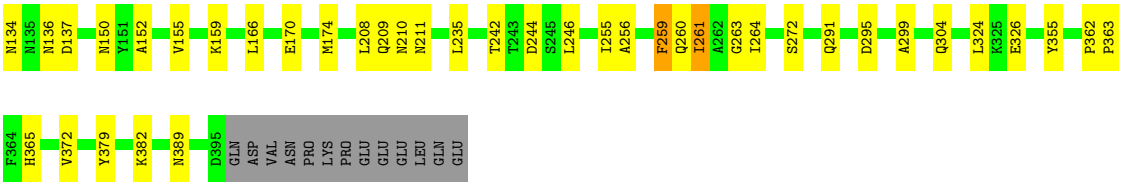
Chain Y4:



• Molecule 1: Major head protein

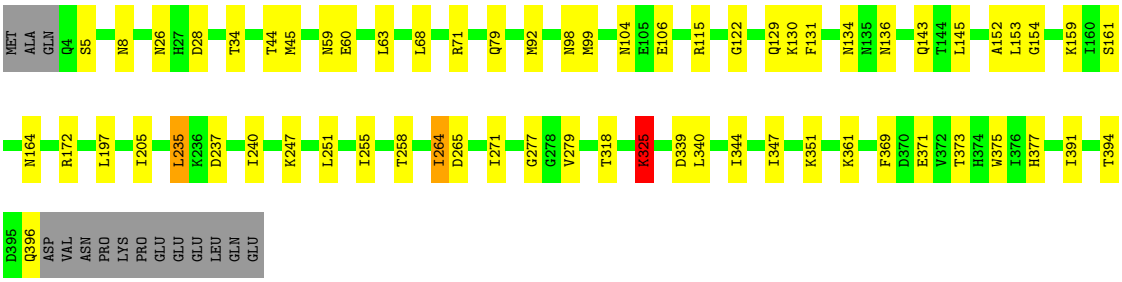
Chain Z4:





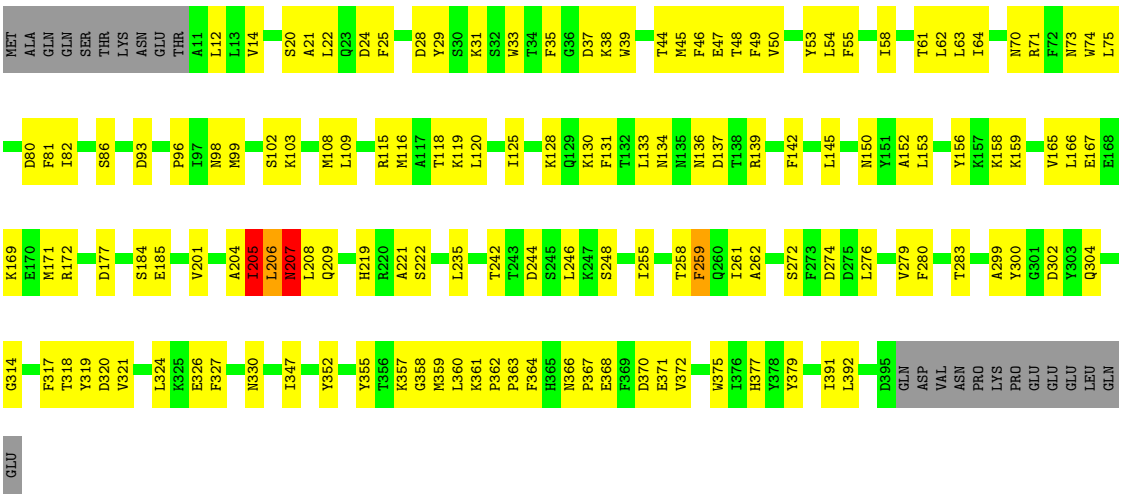
• Molecule 1: Major head protein

Chain a4:



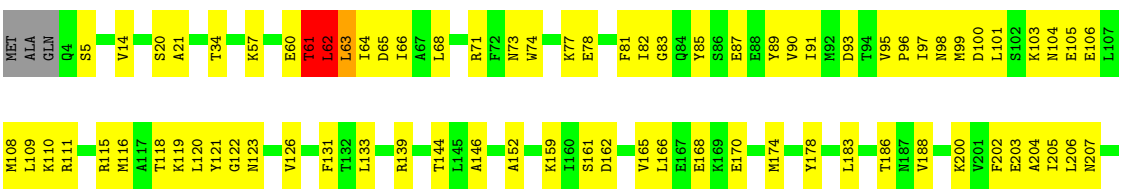
• Molecule 1: Major head protein

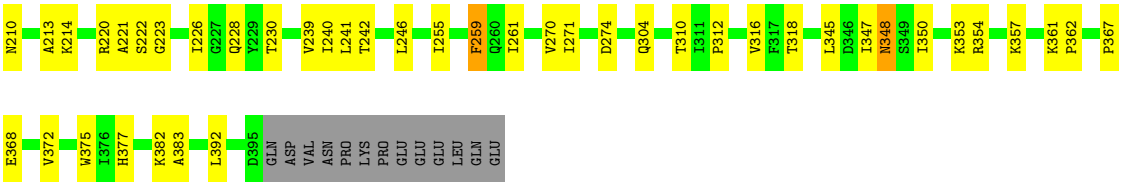
Chain f4:



• Molecule 1: Major head protein

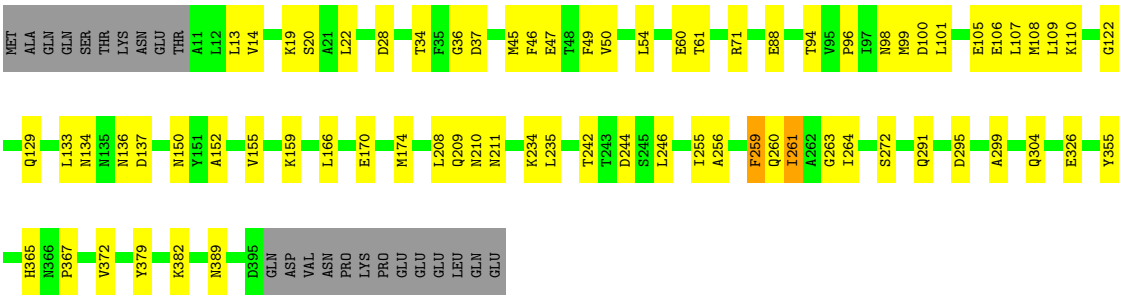
Chain g4:





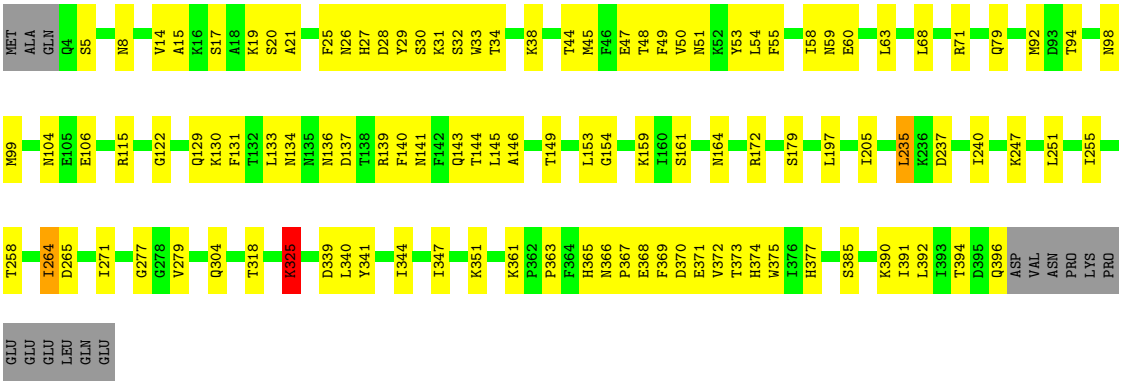
• Molecule 1: Major head protein

Chain h4:



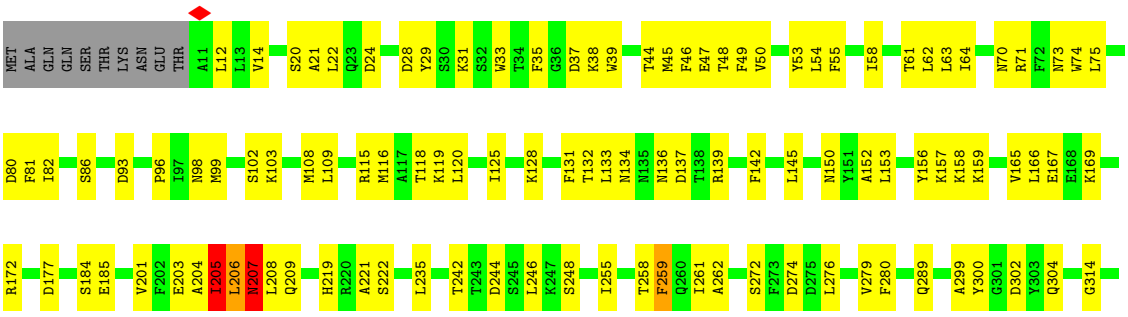
• Molecule 1: Major head protein

Chain i4:



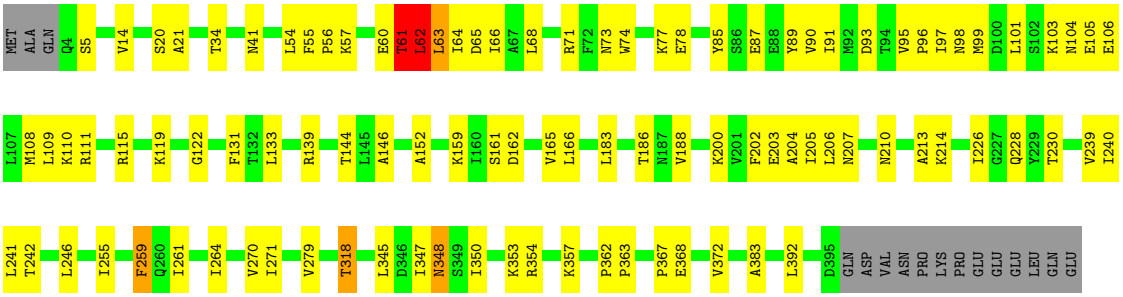
• Molecule 1: Major head protein

Chain C6:



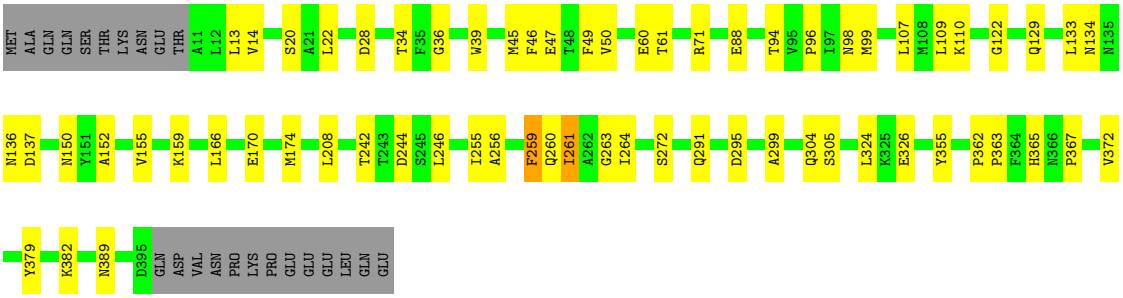
• Molecule 1: Major head protein

Chain A6:



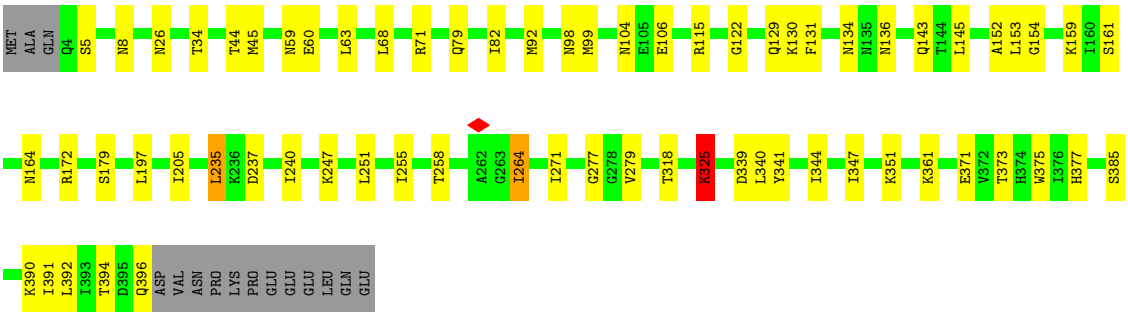
• Molecule 1: Major head protein

Chain B6:



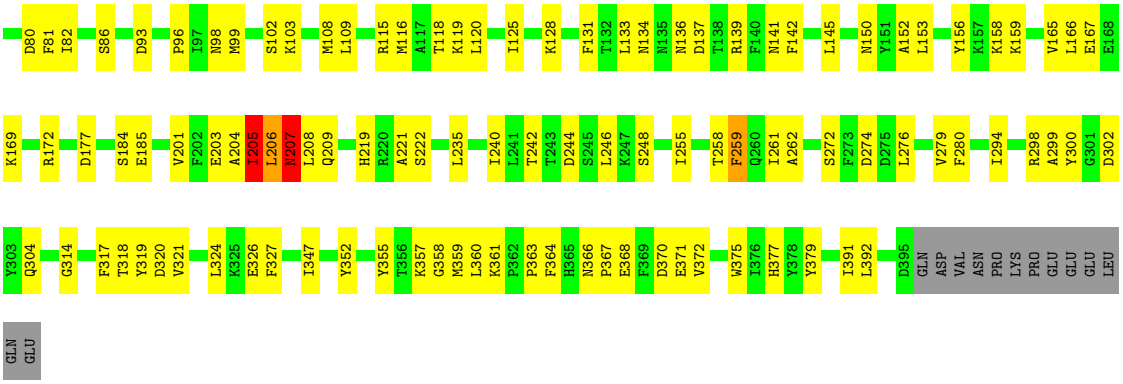
• Molecule 1: Major head protein

Chain D6:



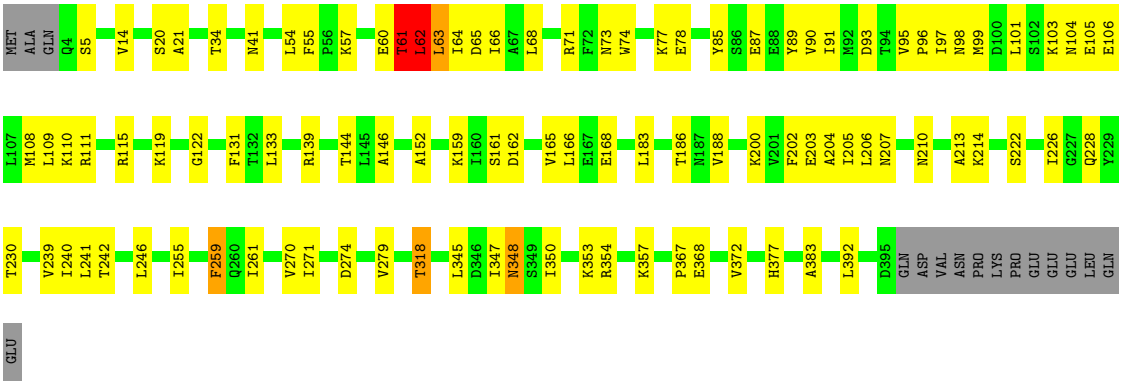
• Molecule 1: Major head protein

Chain I6:



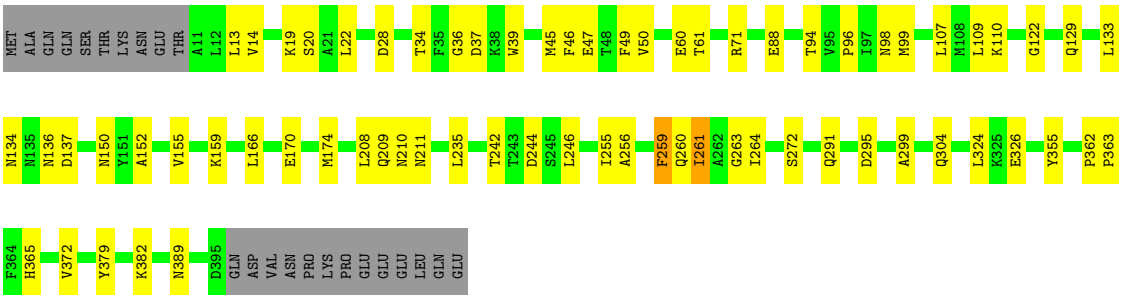
• Molecule 1: Major head protein

Chain J6:



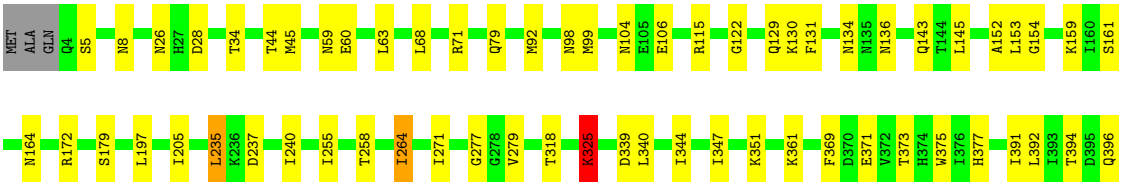
• Molecule 1: Major head protein

Chain K6:



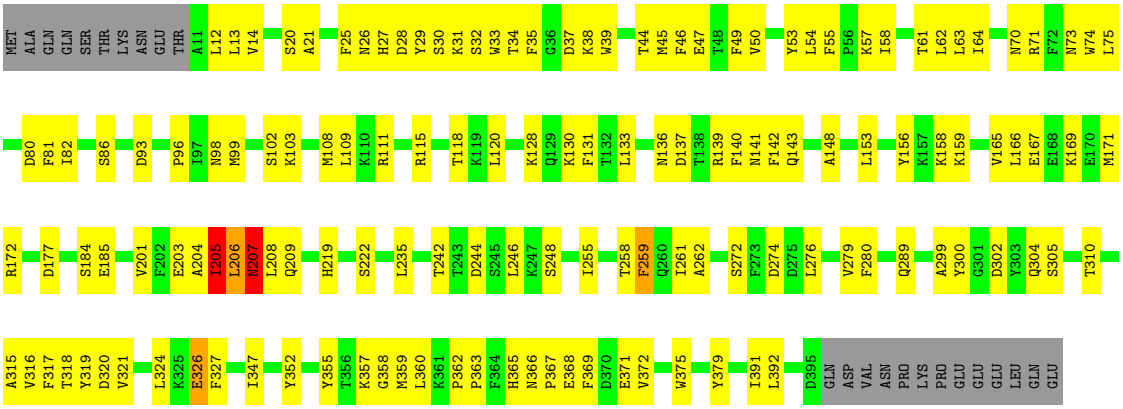
• Molecule 1: Major head protein

Chain L6:



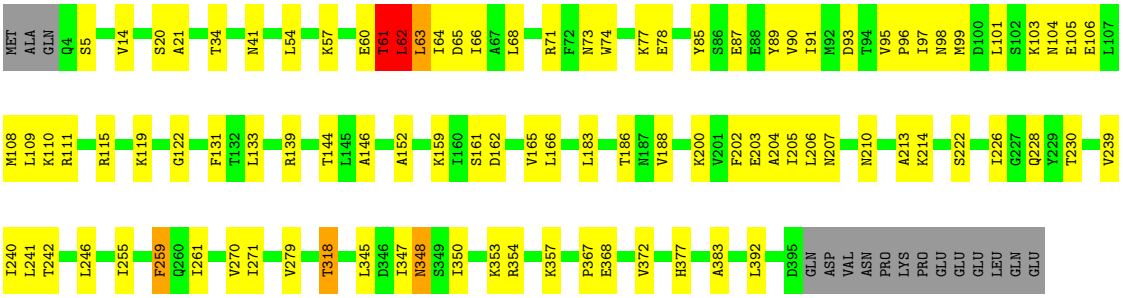
• Molecule 1: Major head protein

Chain Q6:



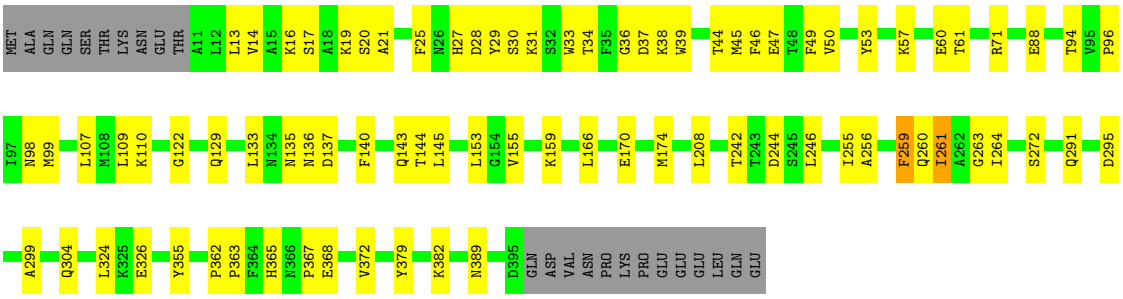
• Molecule 1: Major head protein

Chain R6:



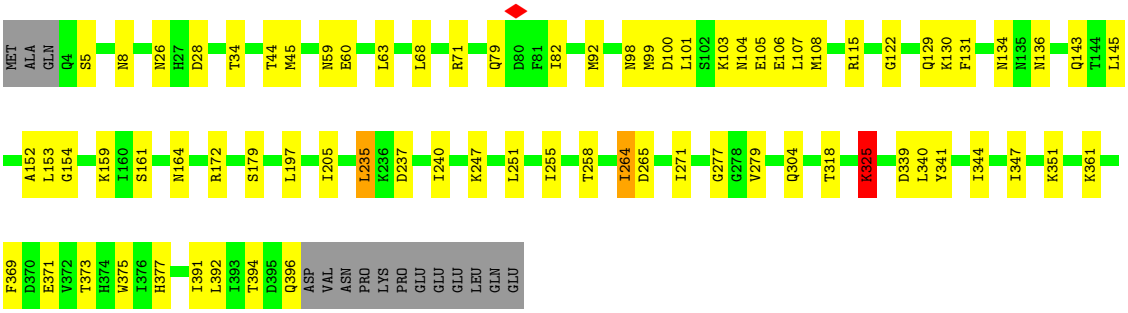
• Molecule 1: Major head protein

Chain S6:



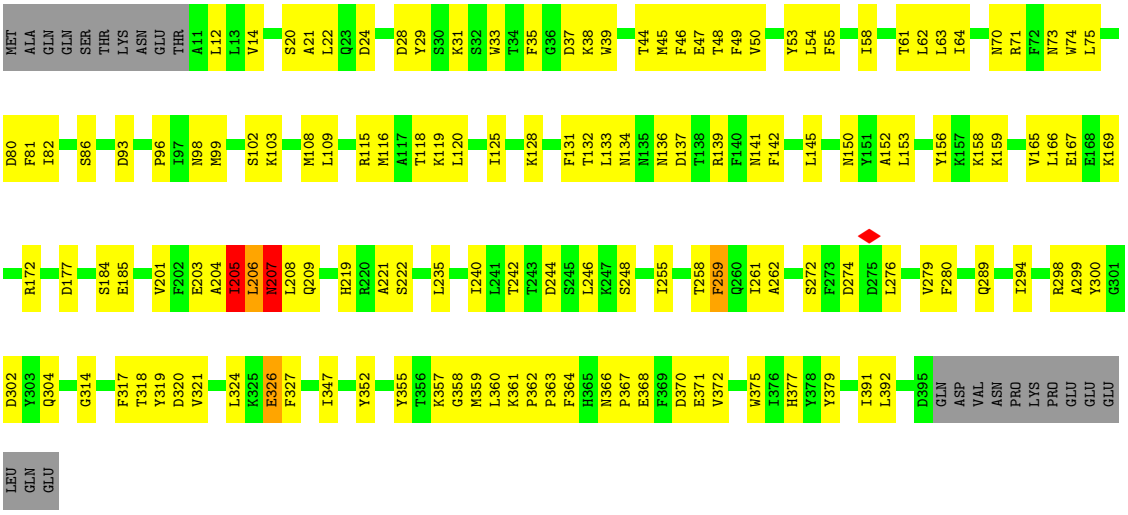
• Molecule 1: Major head protein

Chain T6:



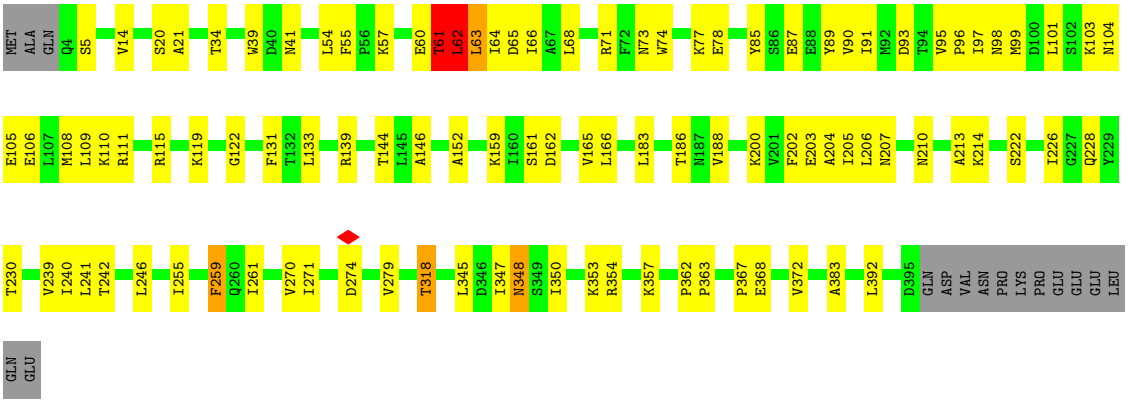
• Molecule 1: Major head protein

Chain Y6:



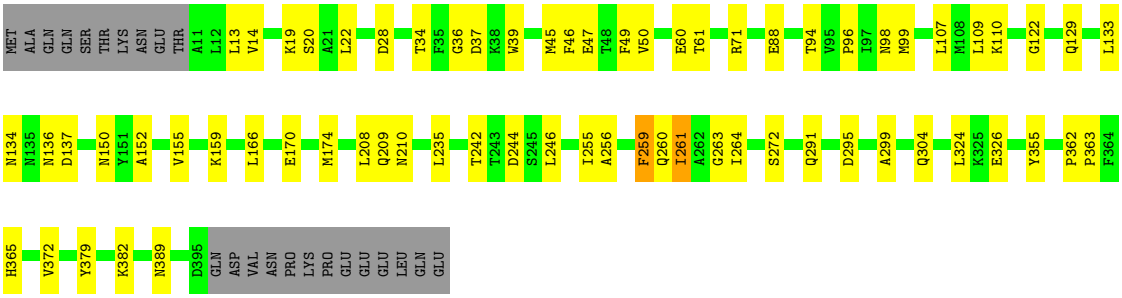
• Molecule 1: Major head protein

Chain Z6:



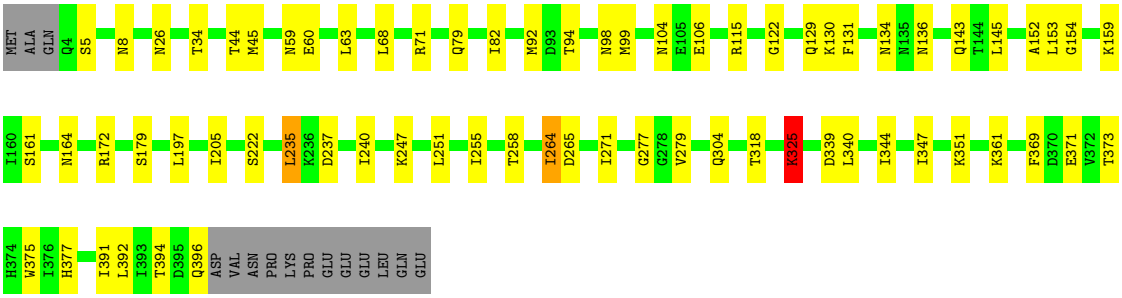
• Molecule 1: Major head protein

Chain a6:



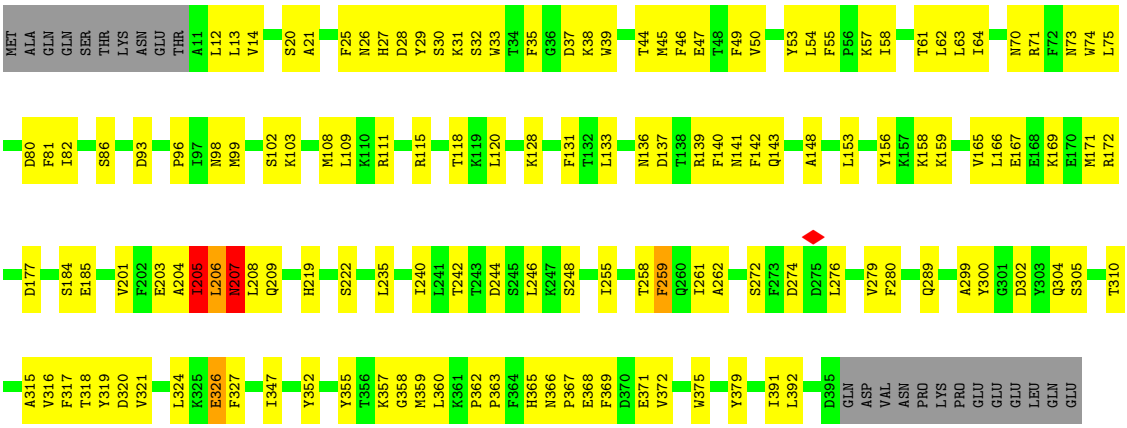
• Molecule 1: Major head protein

Chain b6:



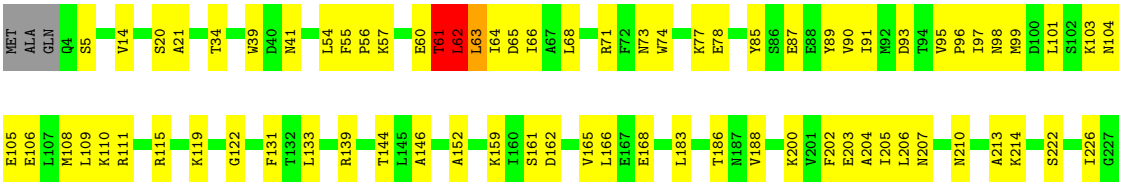
• Molecule 1: Major head protein

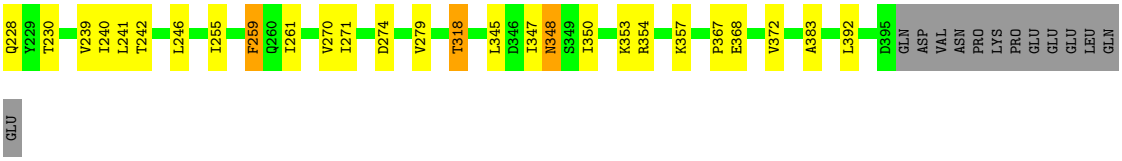
Chain g6:



• Molecule 1: Major head protein

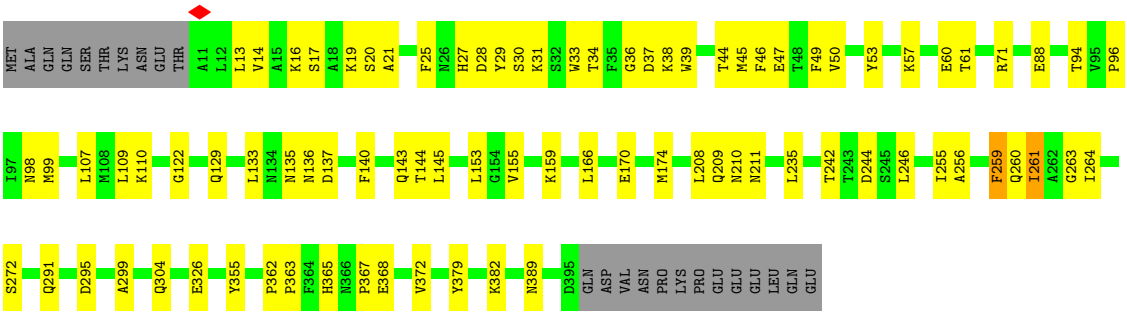
Chain h6:





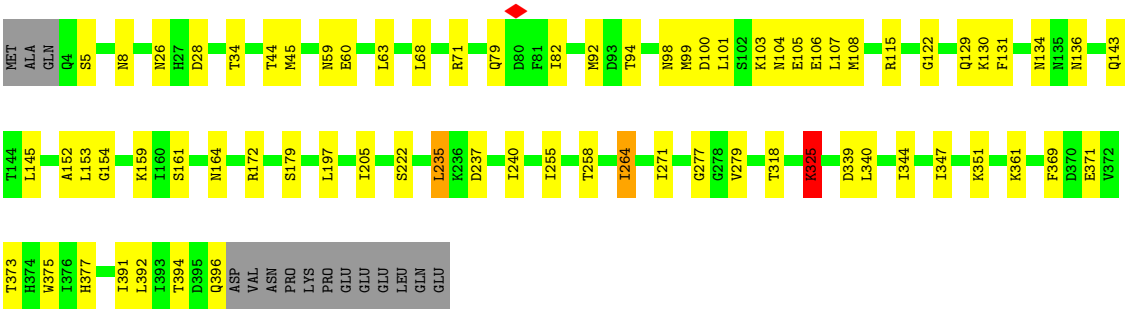
• Molecule 1: Major head protein

Chain i6:



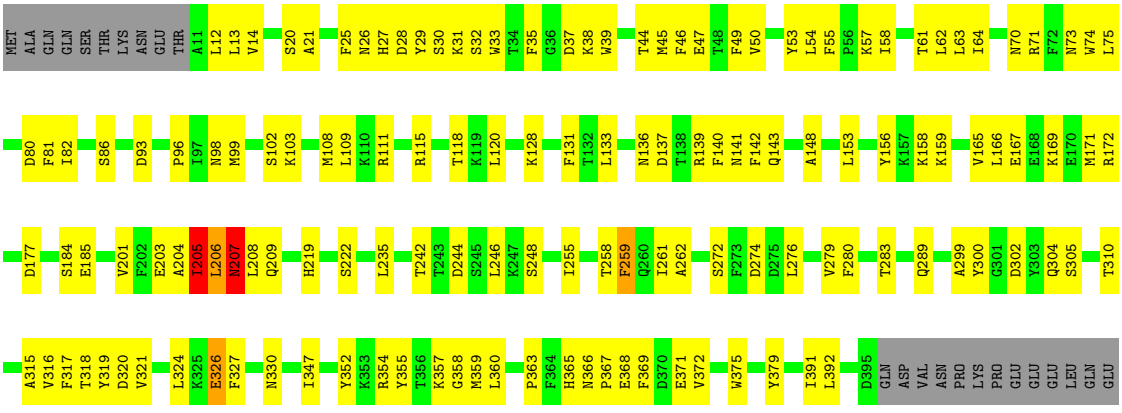
• Molecule 1: Major head protein

Chain j6:



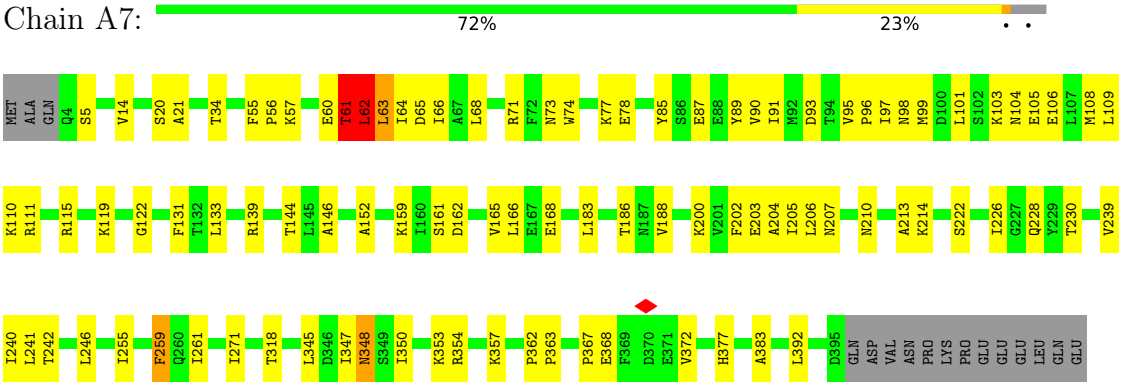
• Molecule 1: Major head protein

Chain C7:



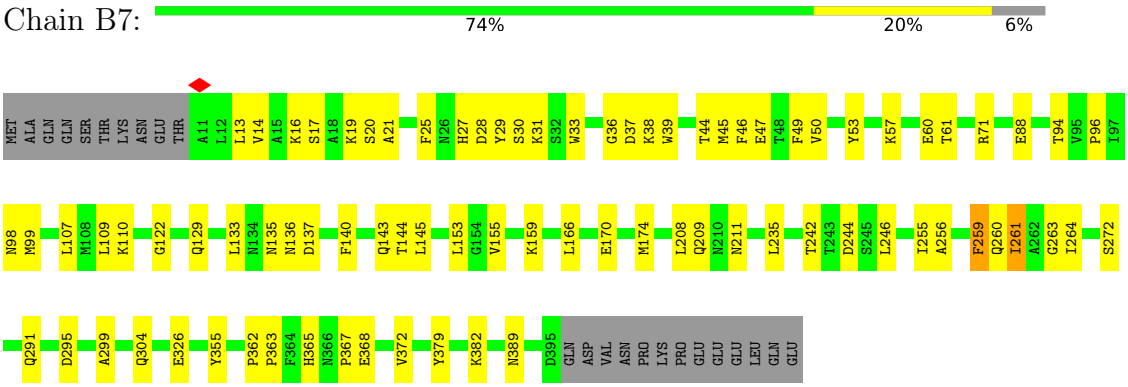
• Molecule 1: Major head protein

Chain A7:



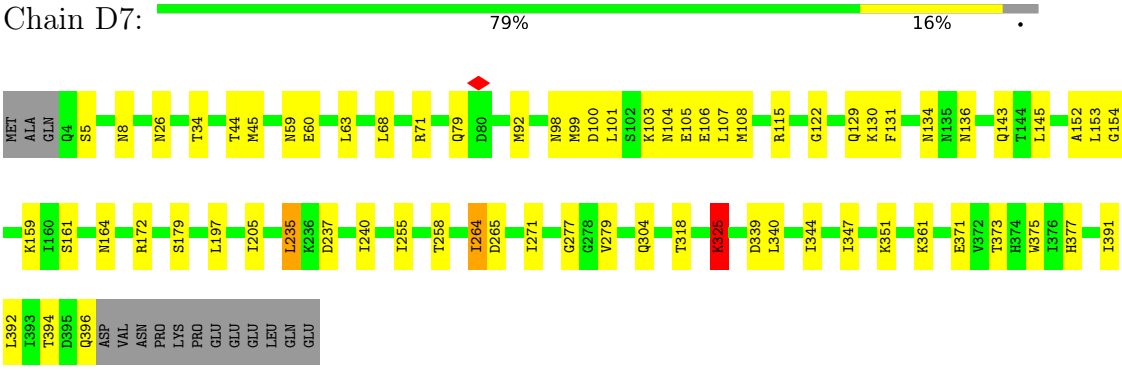
• Molecule 1: Major head protein

Chain B7:



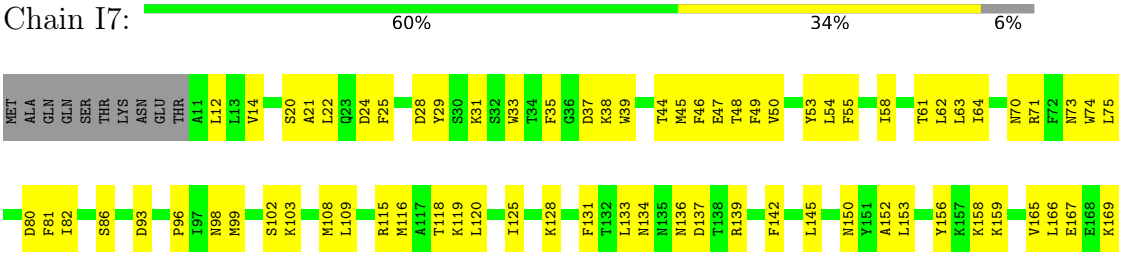
• Molecule 1: Major head protein

Chain D7:



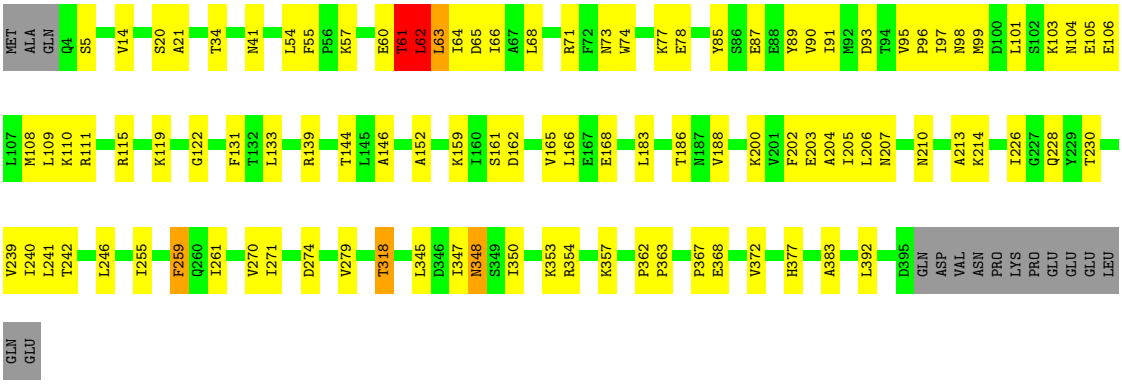
• Molecule 1: Major head protein

Chain I7:



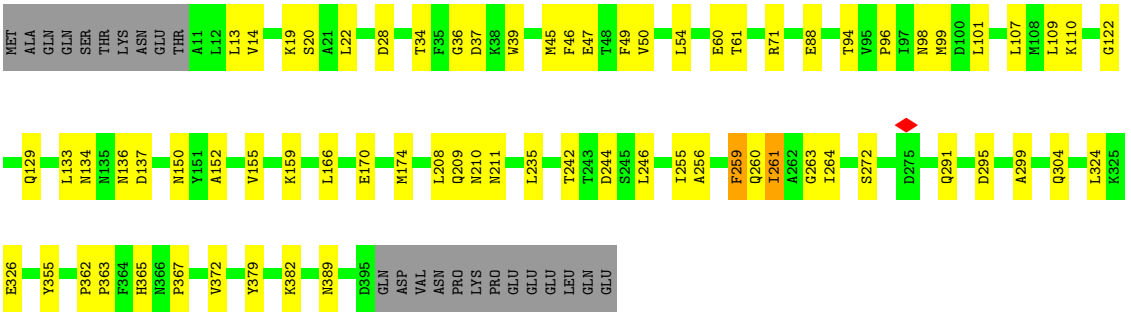
• Molecule 1: Major head protein

Chain J7:



• Molecule 1: Major head protein

Chain K7:

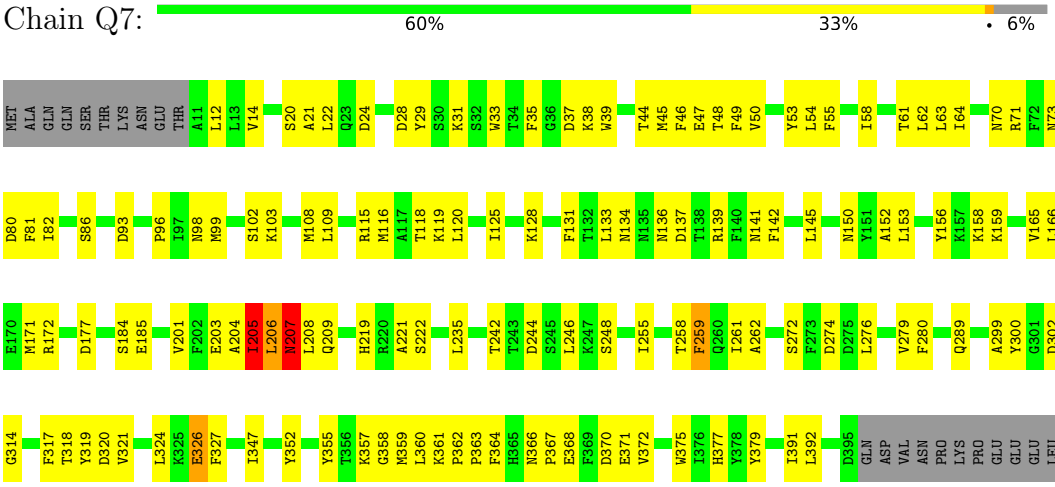


• Molecule 1: Major head protein

Chain L7:

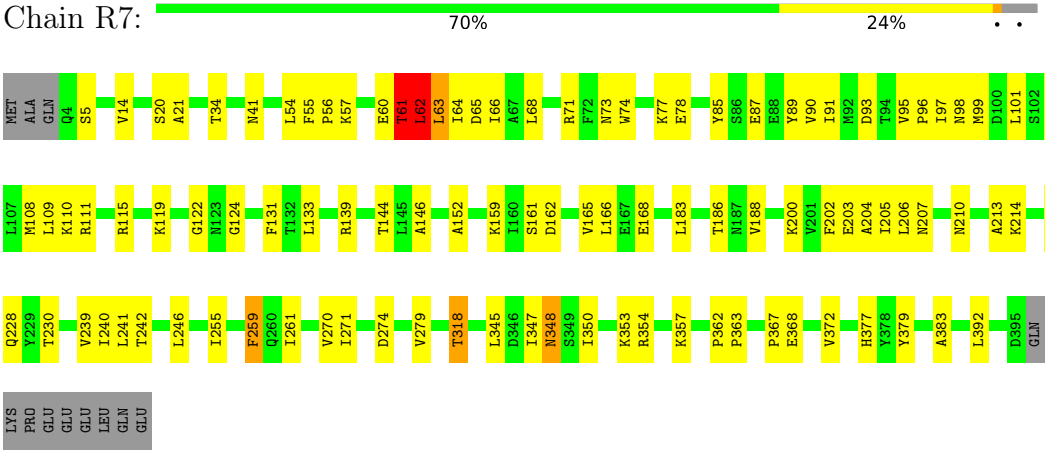
• Molecule 1: Major head protein

Chain Q7:



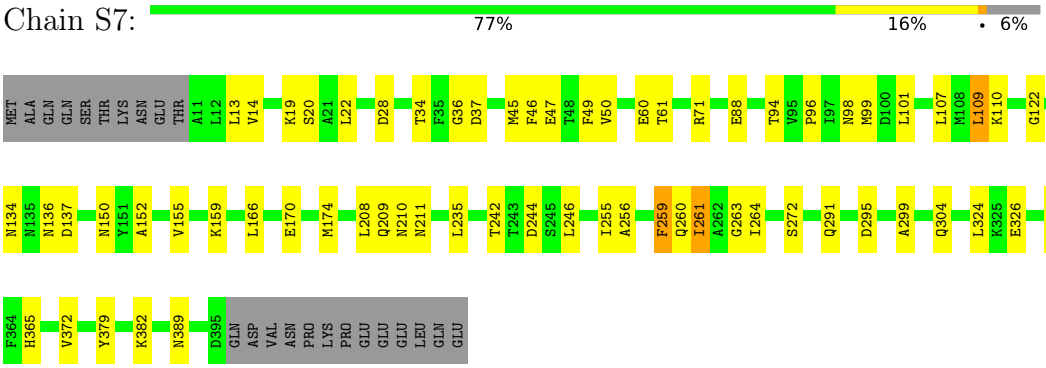
• Molecule 1: Major head protein

Chain R7:



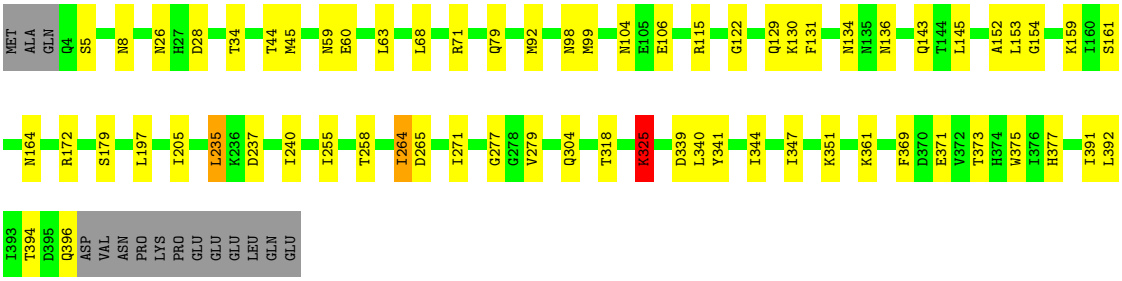
• Molecule 1: Major head protein

Chain S7:



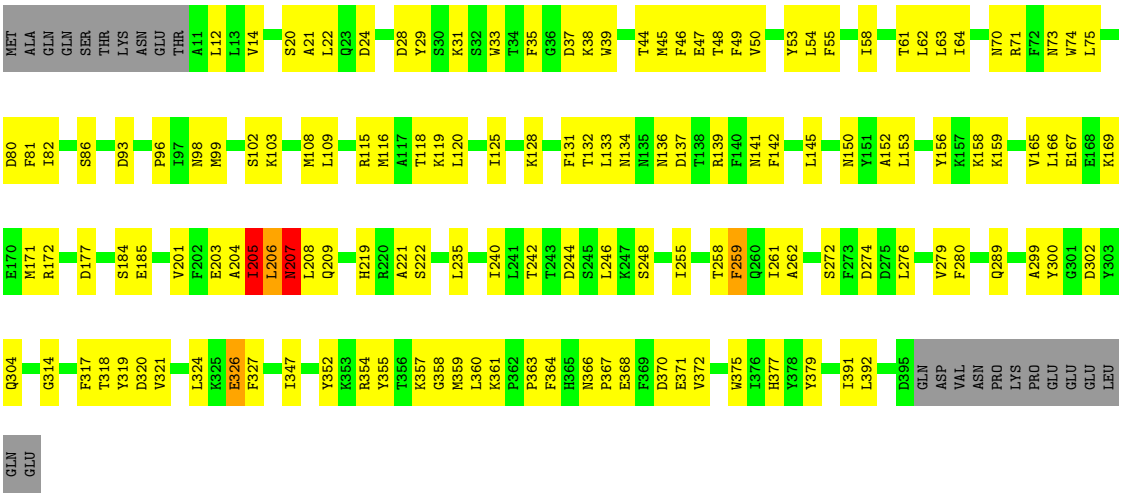
• Molecule 1: Major head protein

Chain T7:



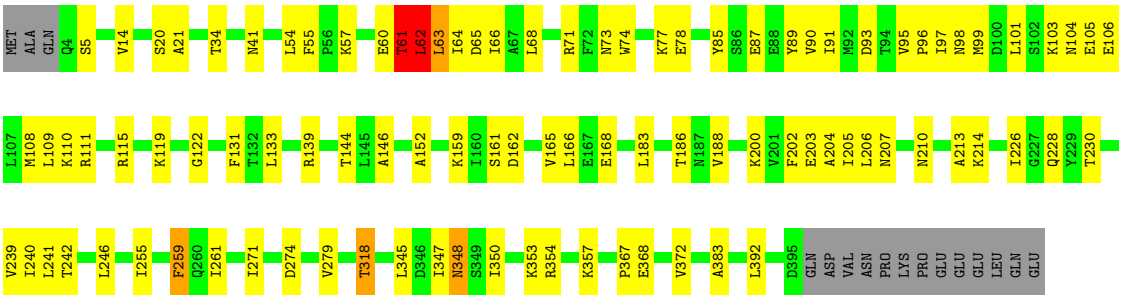
• Molecule 1: Major head protein

Chain Y7:



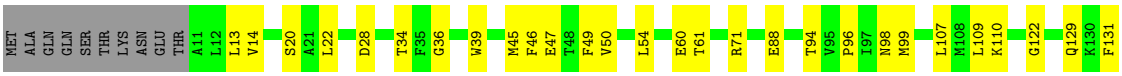
• Molecule 1: Major head protein

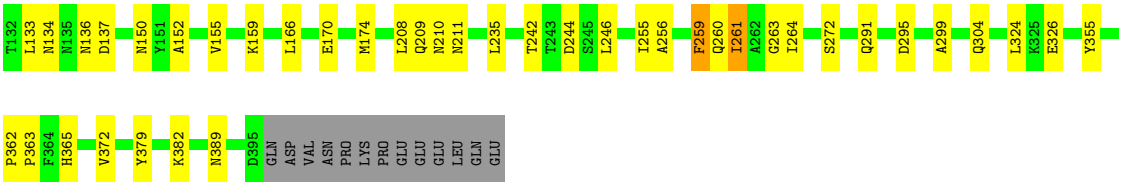
Chain Z7:



• Molecule 1: Major head protein

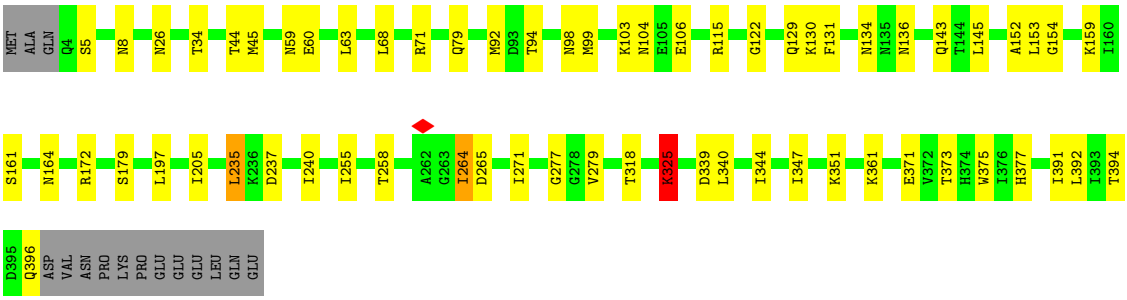
Chain a7:





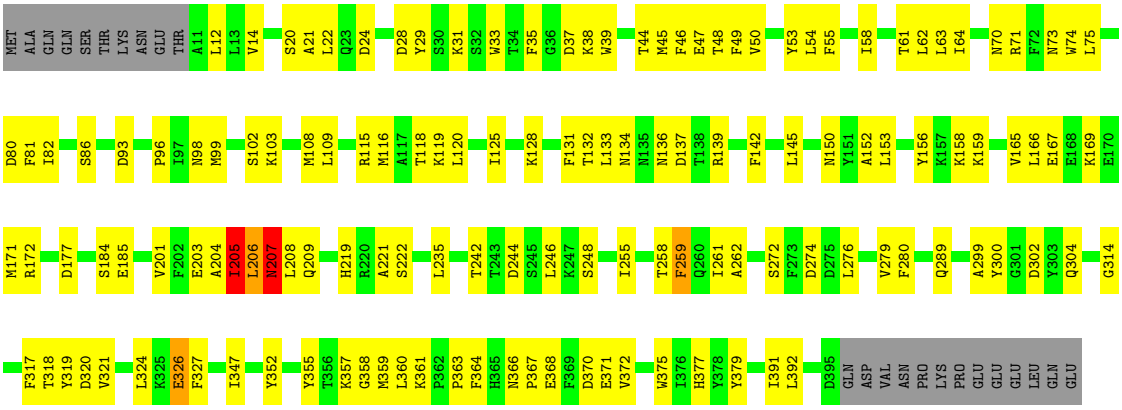
• Molecule 1: Major head protein

Chain b7:



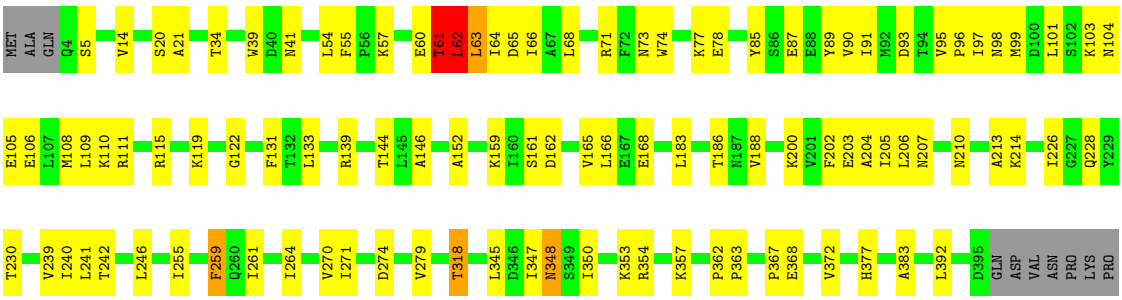
• Molecule 1: Major head protein

Chain g7:



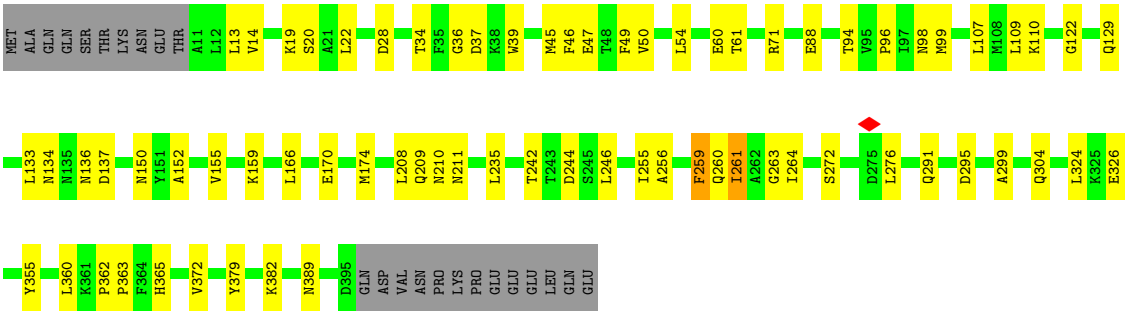
• Molecule 1: Major head protein

Chain h7:



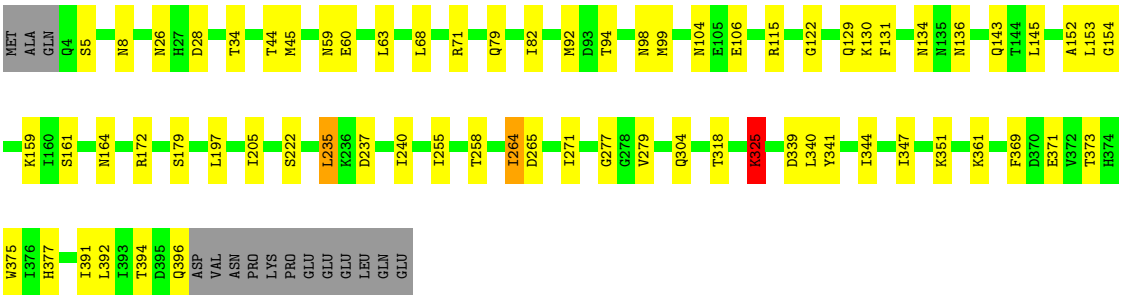
• Molecule 1: Major head protein

Chain i7:



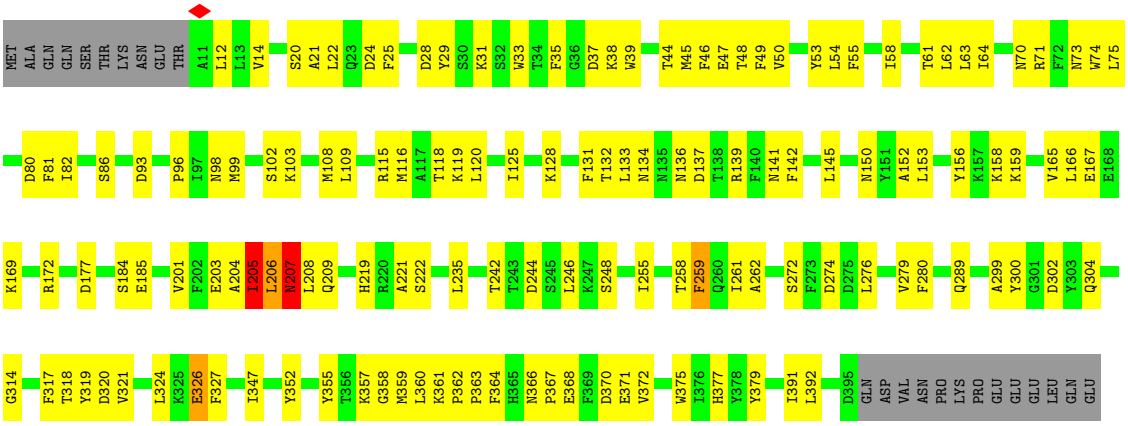
• Molecule 1: Major head protein

Chain j7:



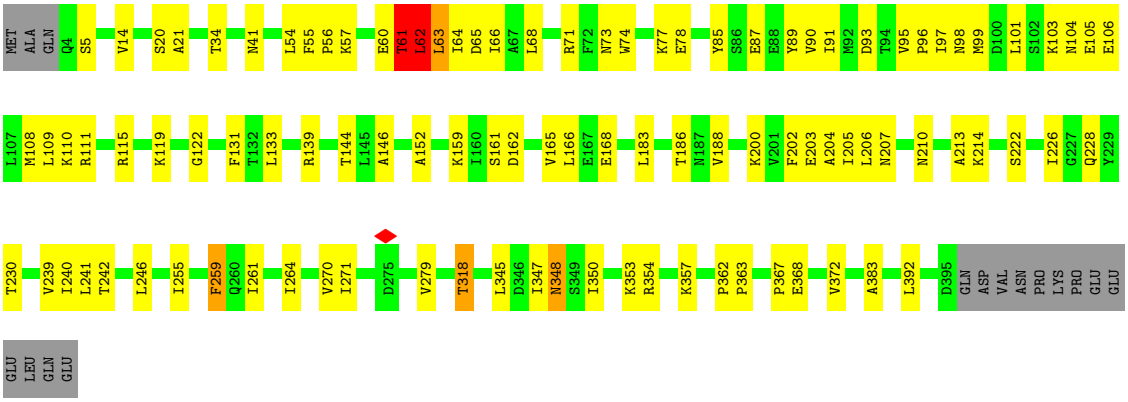
• Molecule 1: Major head protein

Chain C8:



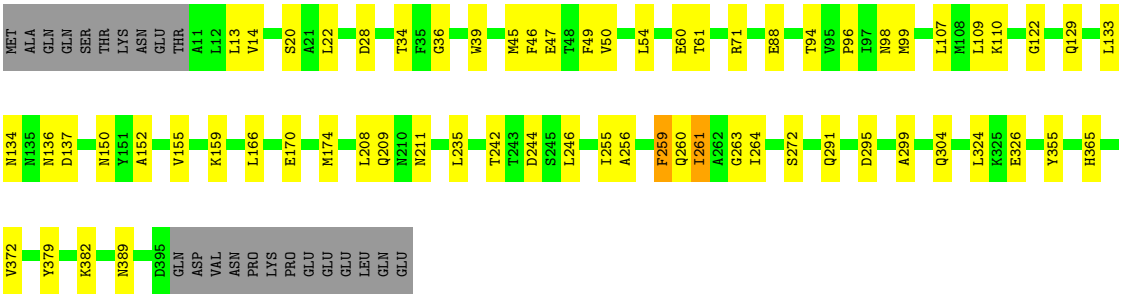
• Molecule 1: Major head protein

Chain A8:



• Molecule 1: Major head protein

Chain B8:

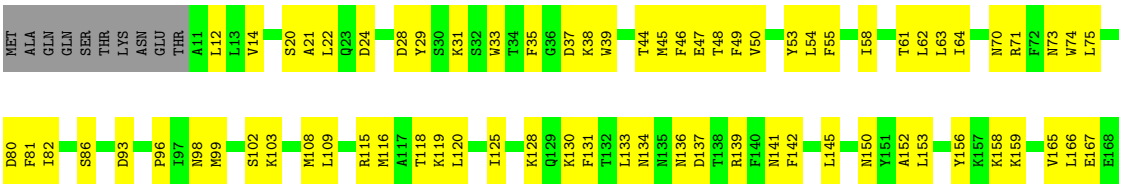


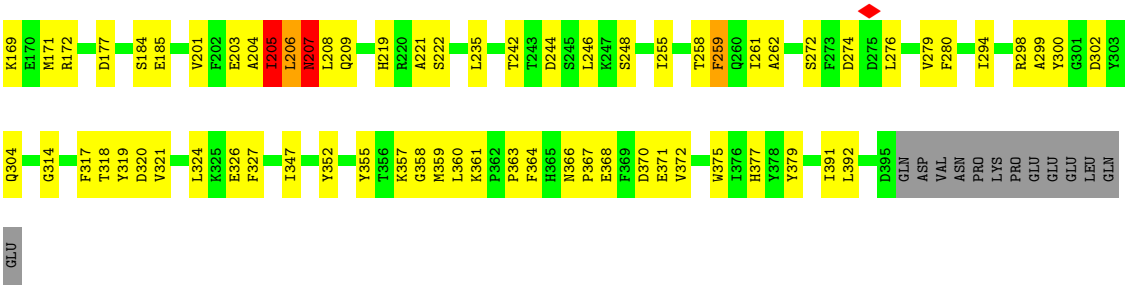
• Molecule 1: Major head protein

Chain D8:

• Molecule 1: Major head protein

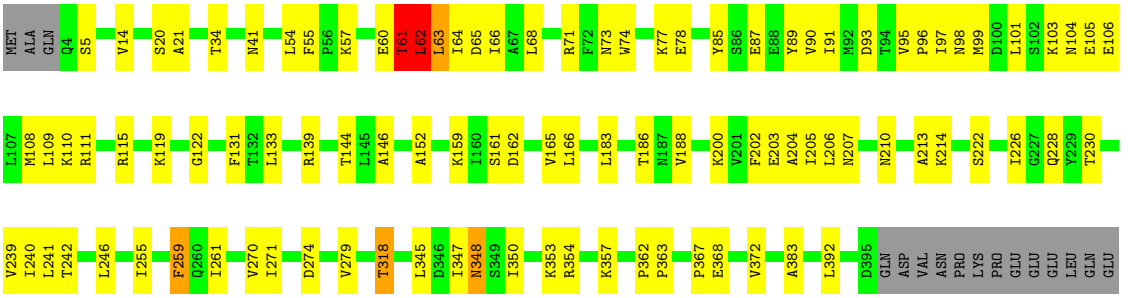
Chain I8:





• Molecule 1: Major head protein

Chain J8:

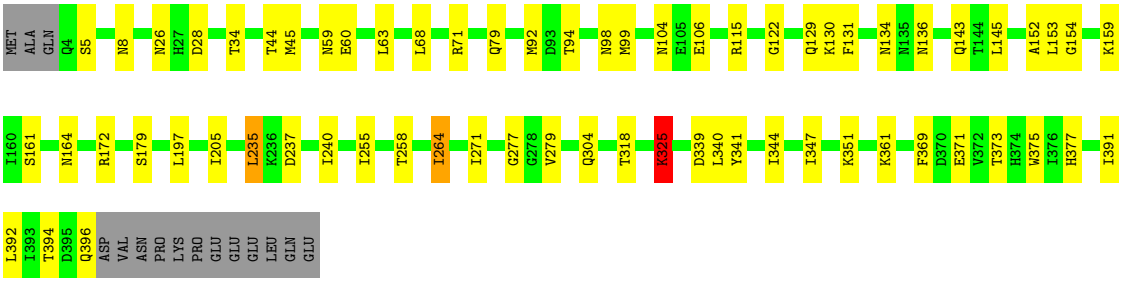


• Molecule 1: Major head protein

Chain K8:

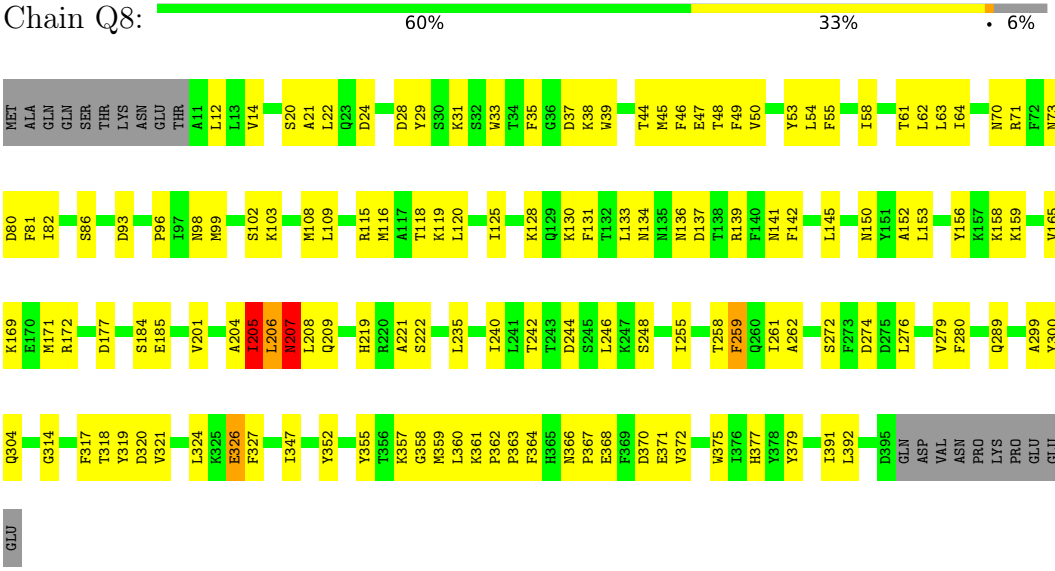
• Molecule 1: Major head protein

Chain L8:



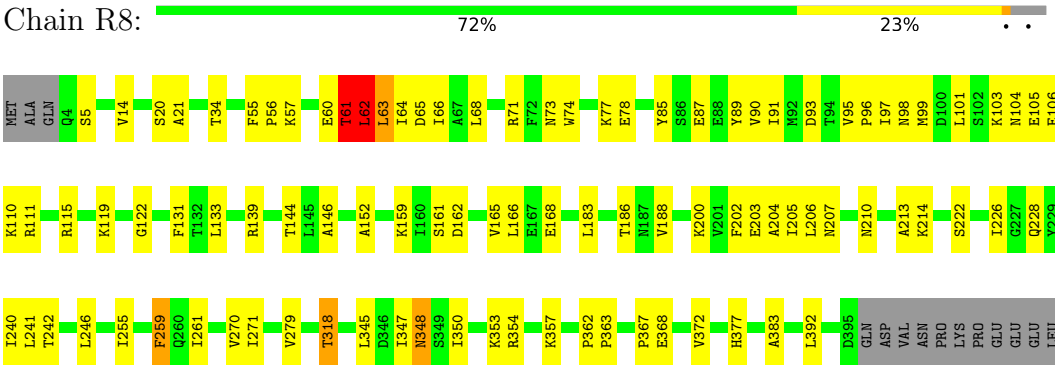
• Molecule 1: Major head protein

Chain Q8:



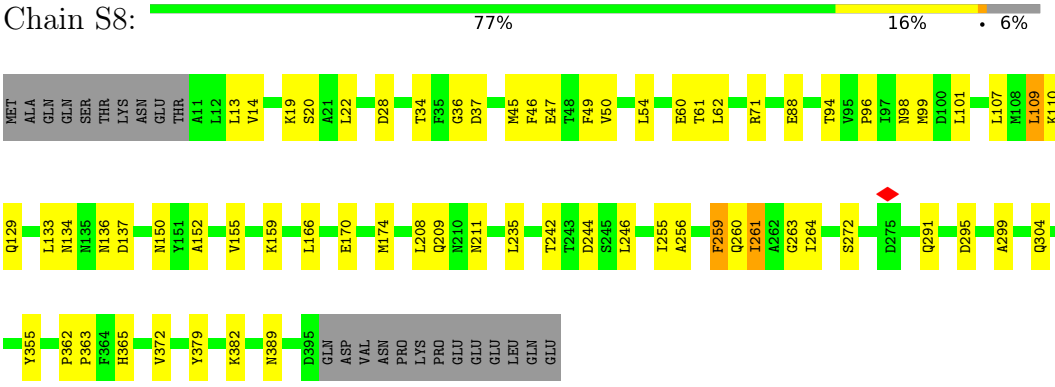
• Molecule 1: Major head protein

Chain R8:



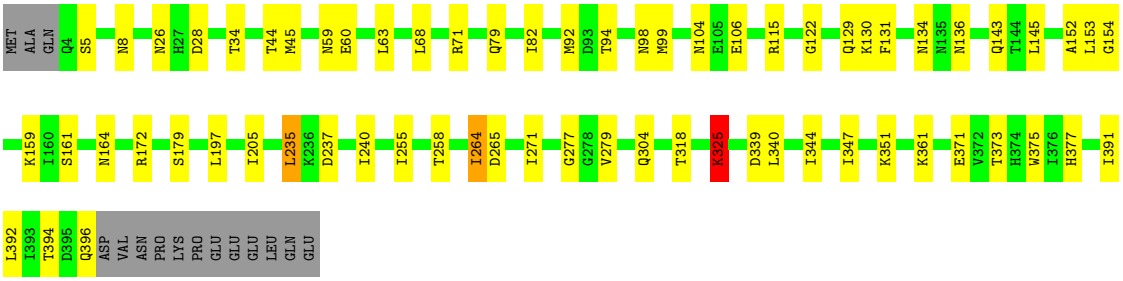
• Molecule 1: Major head protein

Chain S8:



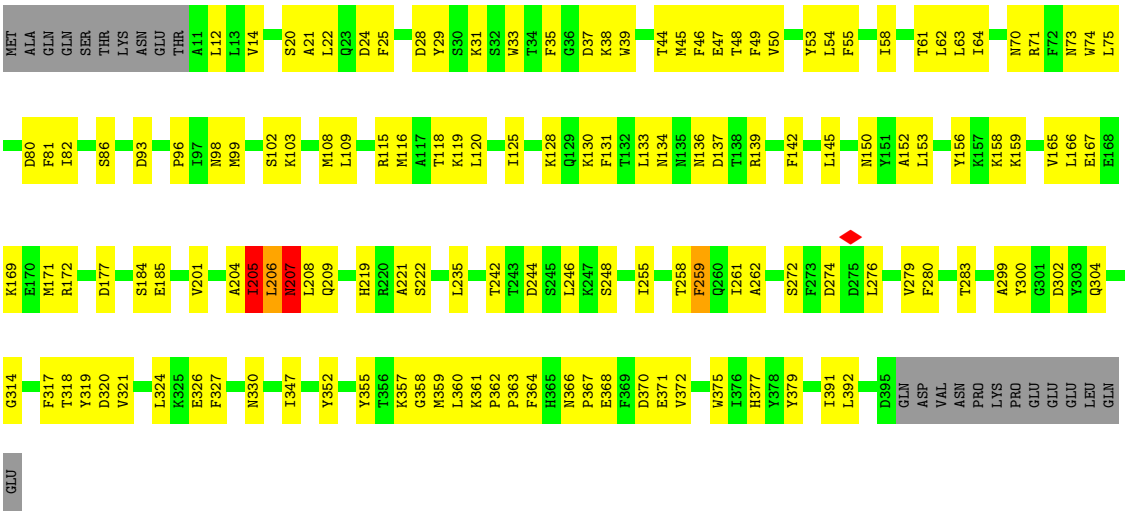
• Molecule 1: Major head protein

Chain T8:



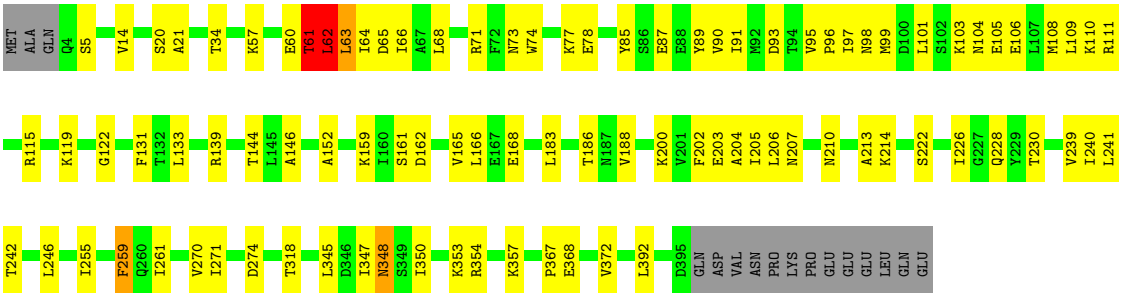
• Molecule 1: Major head protein

Chain Y8:



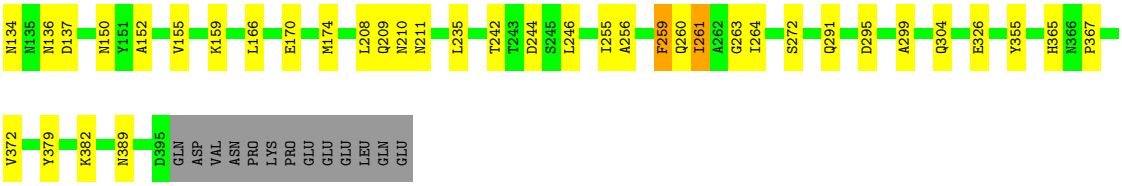
• Molecule 1: Major head protein

Chain Z8:



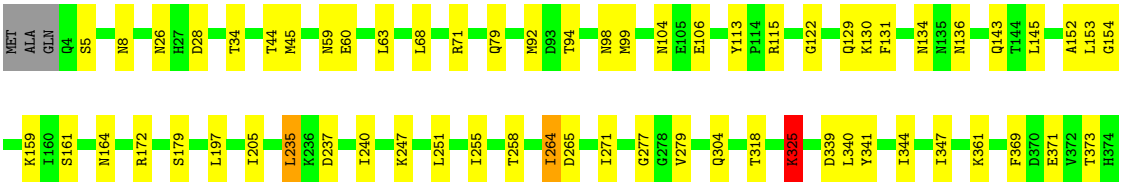
• Molecule 1: Major head protein

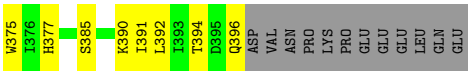
Chain a8:



• Molecule 1: Major head protein

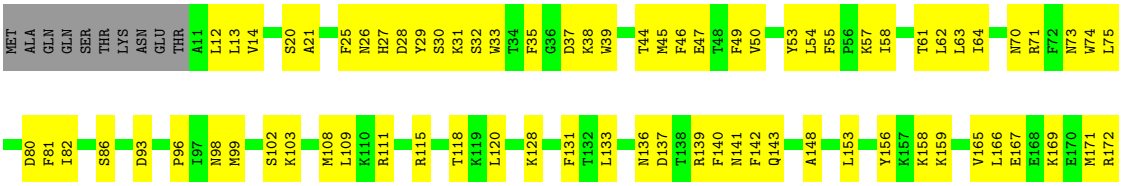
Chain b8:

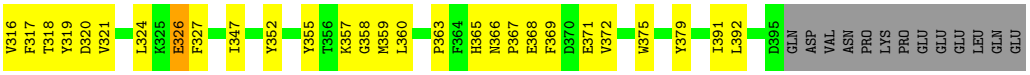




• Molecule 1: Major head protein

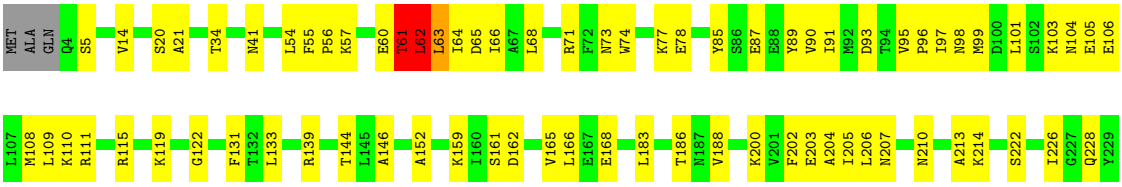
Chain g8:

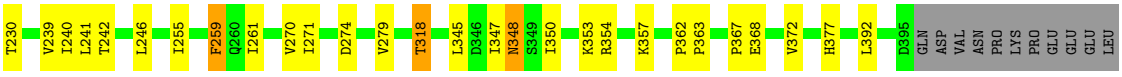




• Molecule 1: Major head protein

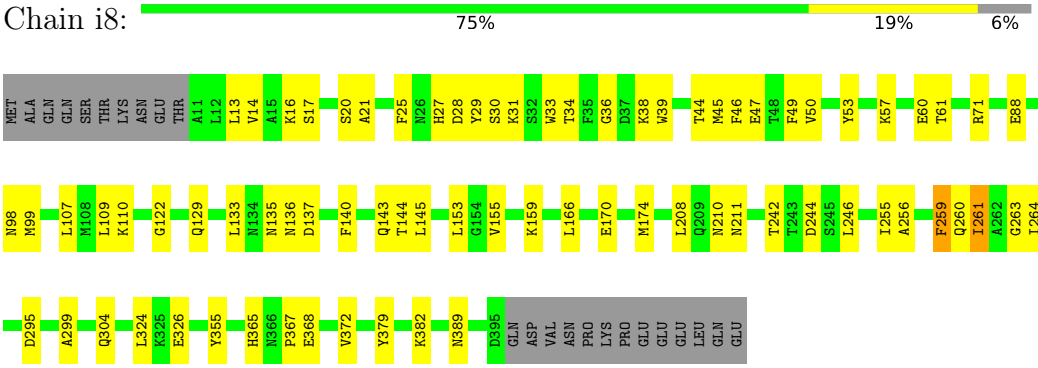
Chain h8:





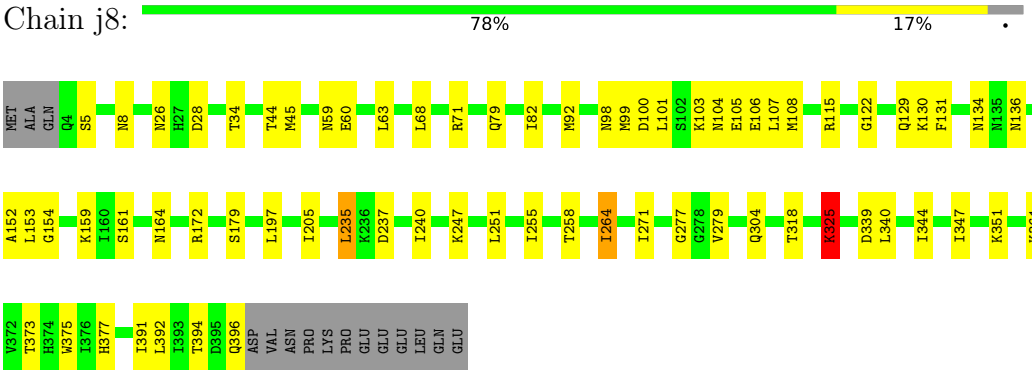
• Molecule 1: Major head protein

Chain i8:



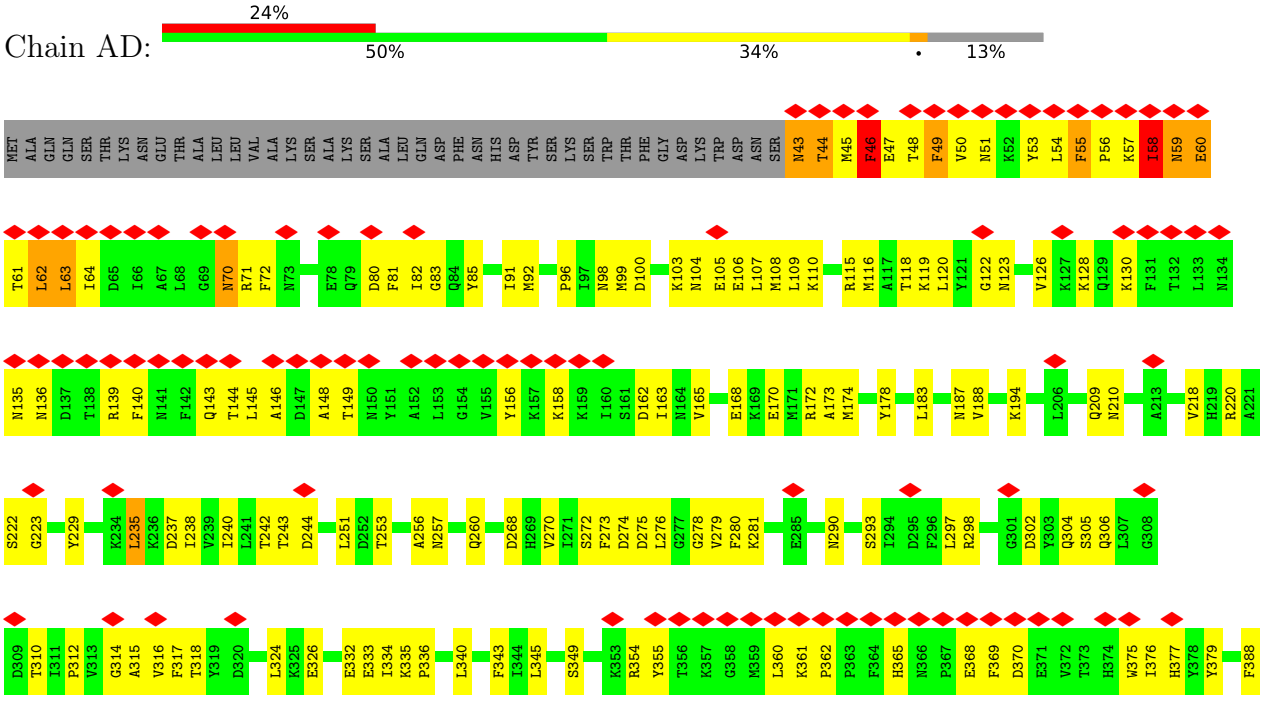
• Molecule 1: Major head protein

Chain j8:



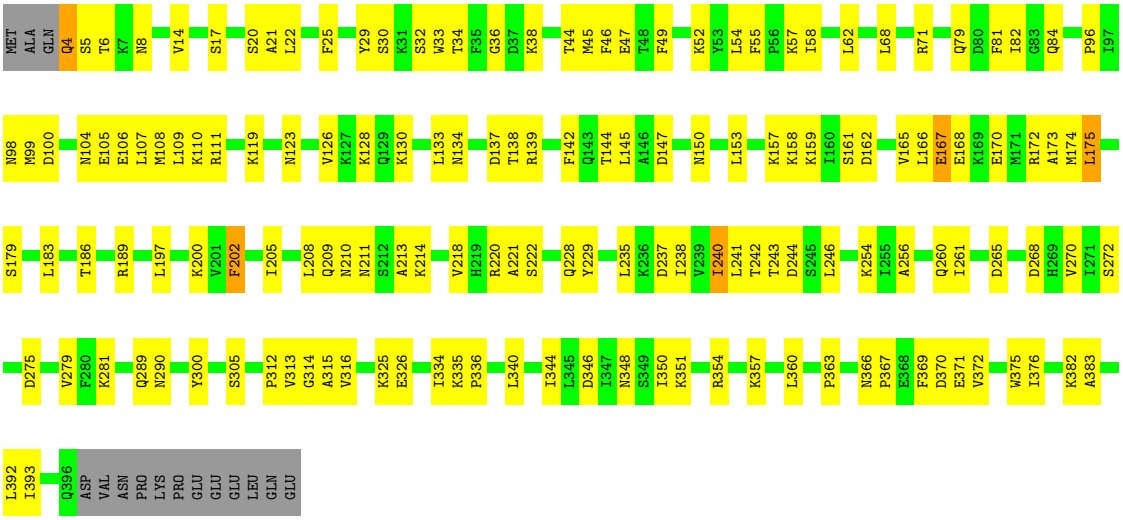
• Molecule 1: Major head protein

Chain AD:



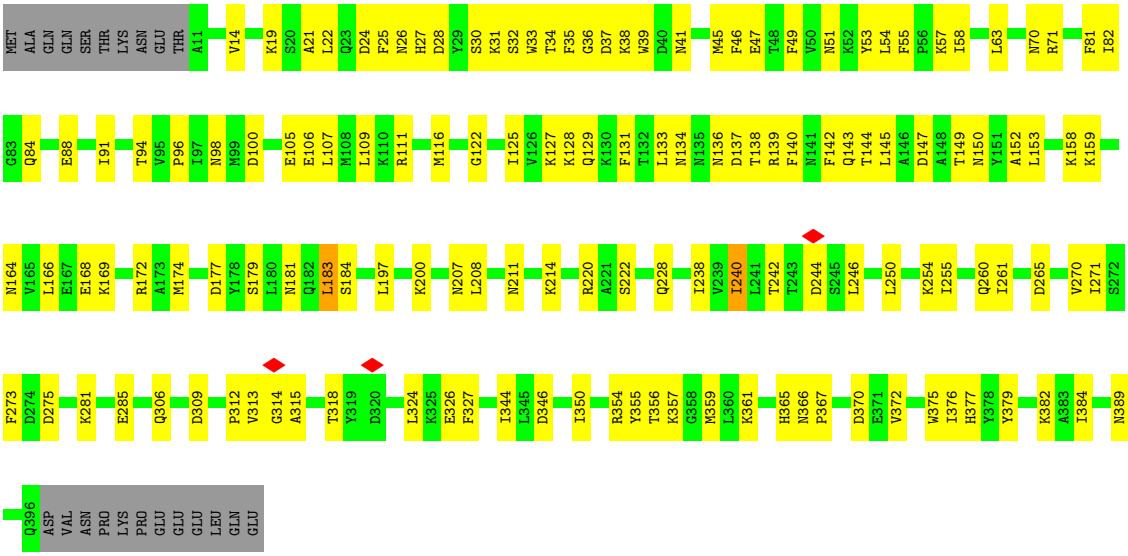
• Molecule 1: Major head protein

Chain BD:



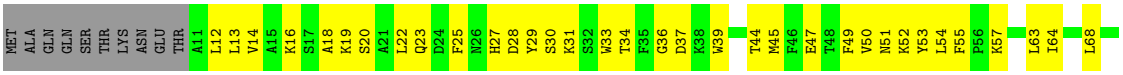
• Molecule 1: Major head protein

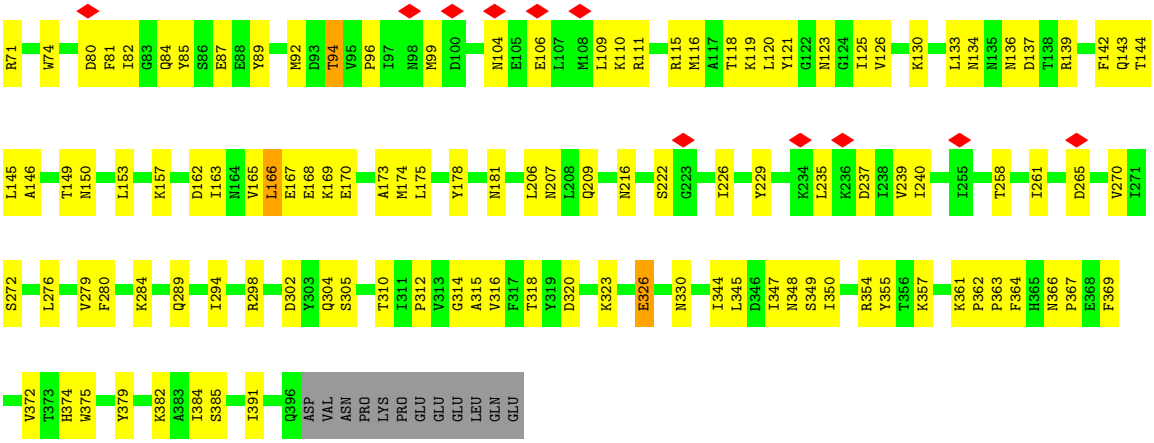
Chain CD:



• Molecule 1: Major head protein

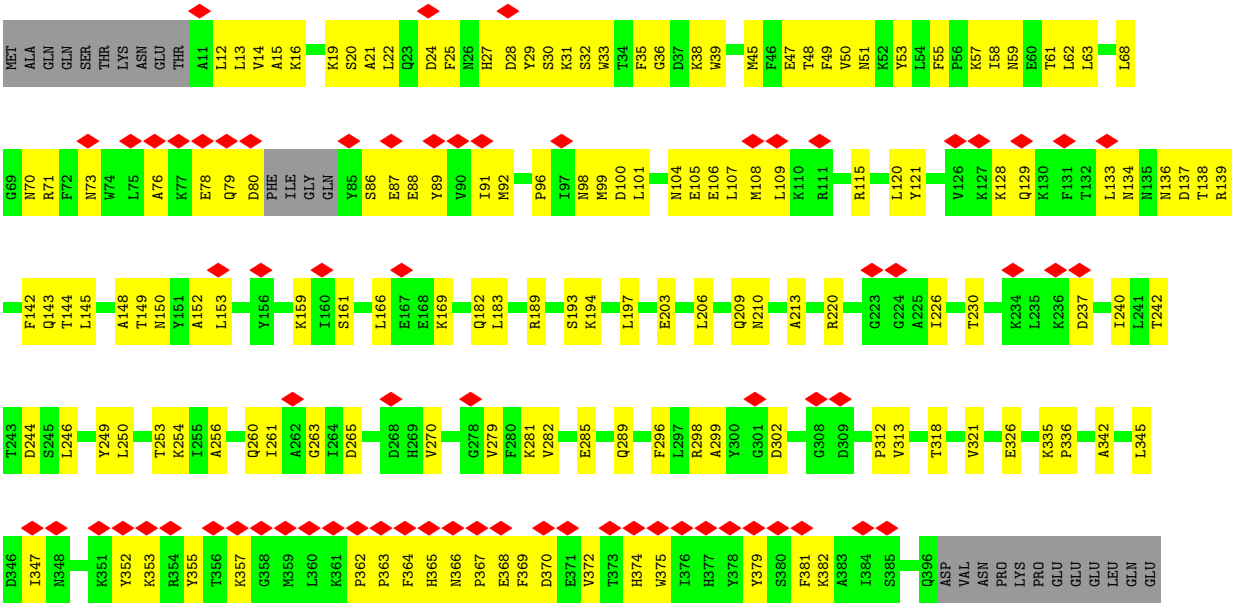
Chain DD:





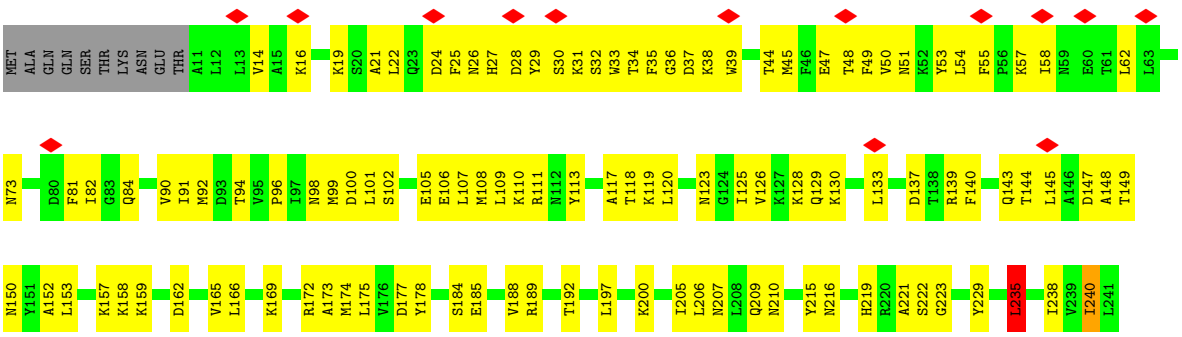
• Molecule 1: Major head protein

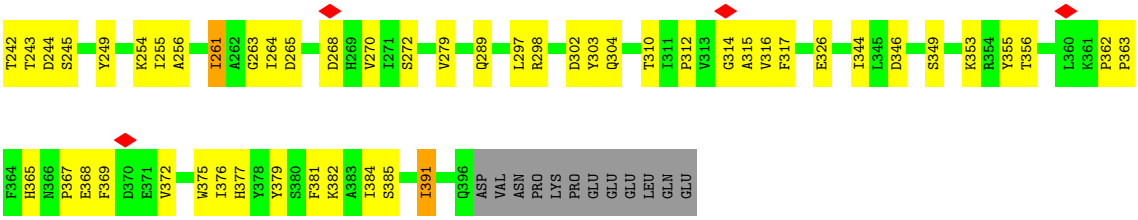
Chain KD:



• Molecule 1: Major head protein

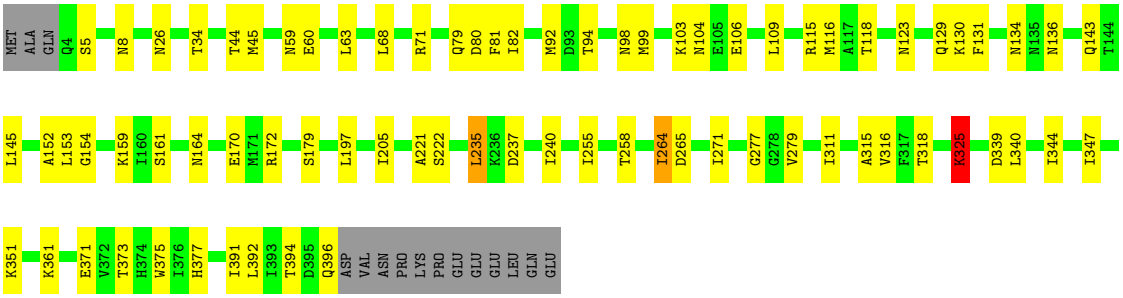
Chain LD:





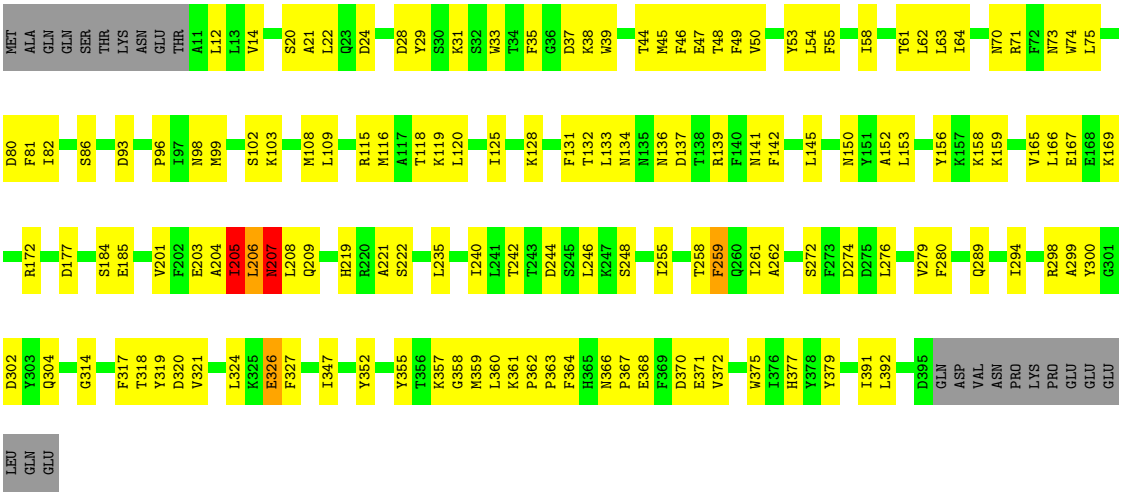
• Molecule 1: Major head protein

Chain DE:



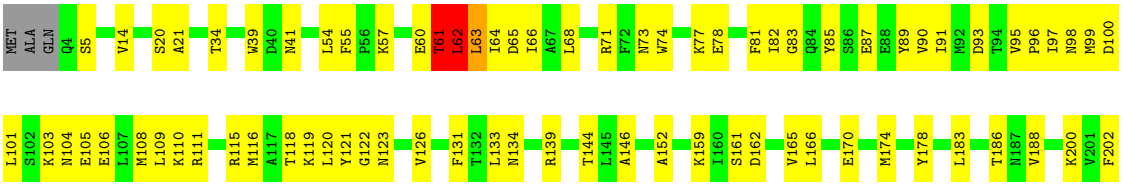
• Molecule 1: Major head protein

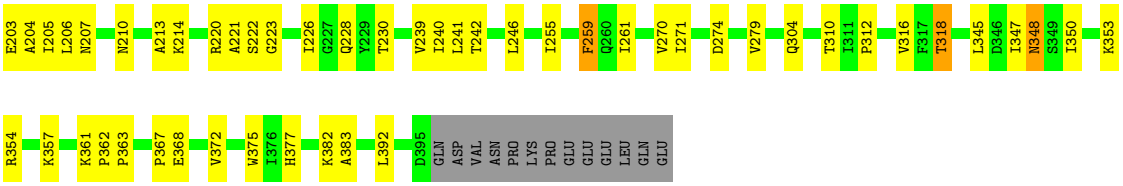
Chain AE:



• Molecule 1: Major head protein

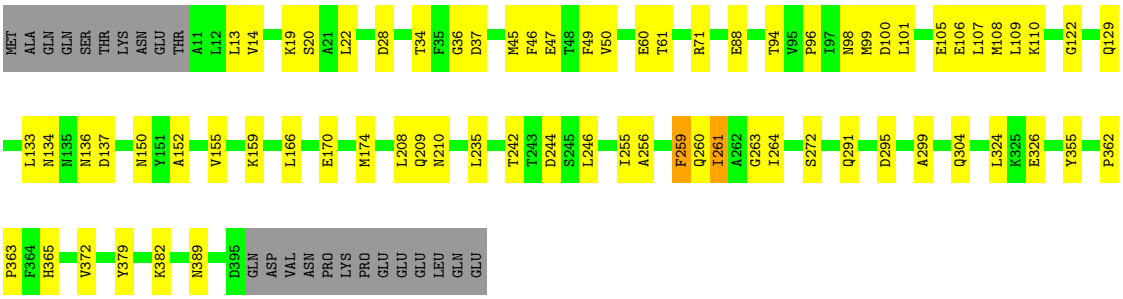
Chain BE:





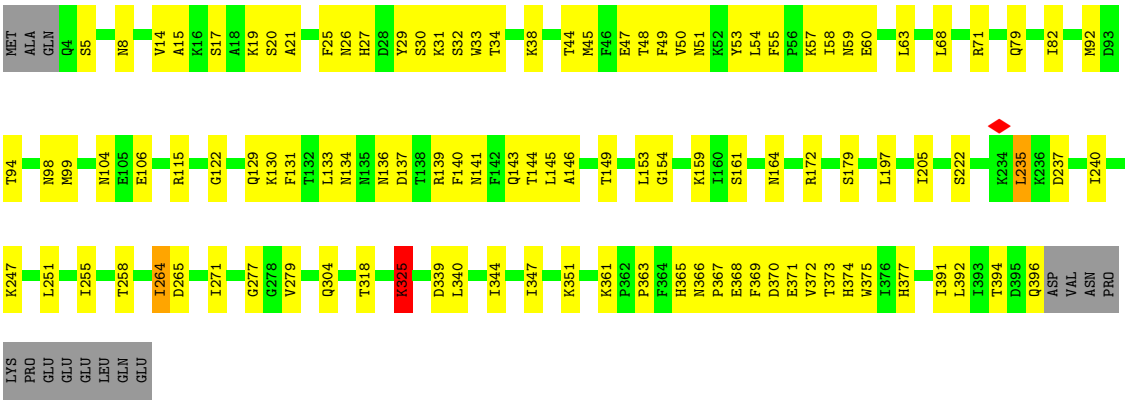
• Molecule 1: Major head protein

Chain CE:



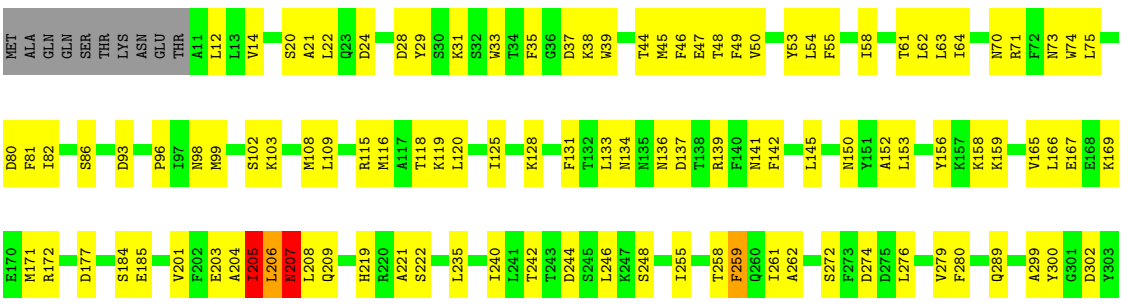
• Molecule 1: Major head protein

Chain FE:



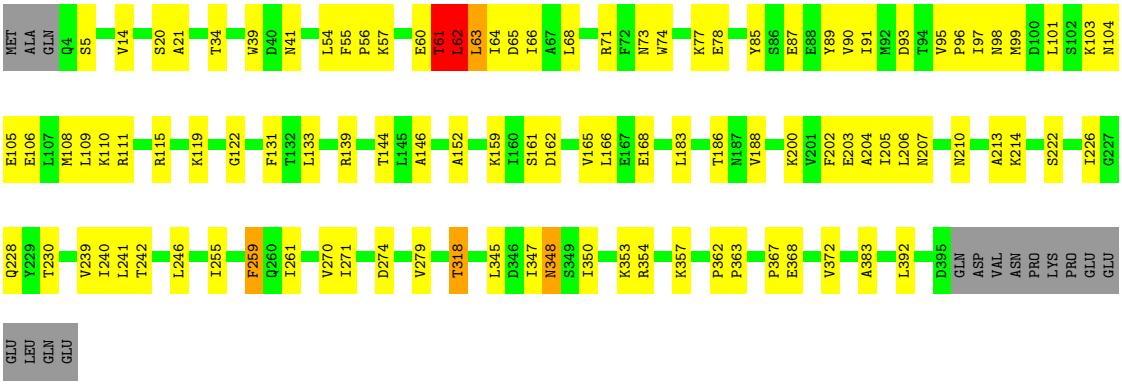
• Molecule 1: Major head protein

Chain KE:



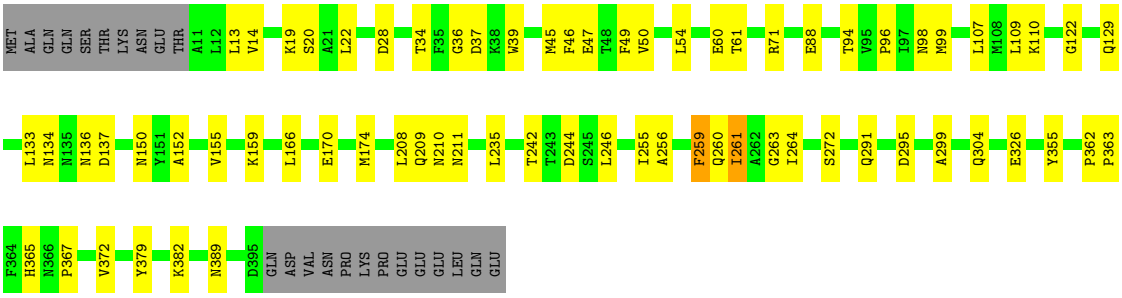
• Molecule 1: Major head protein

Chain LE:



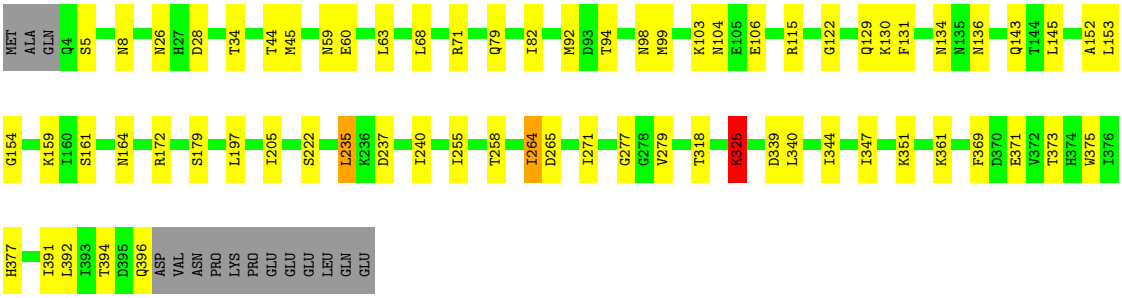
• Molecule 1: Major head protein

Chain ME:



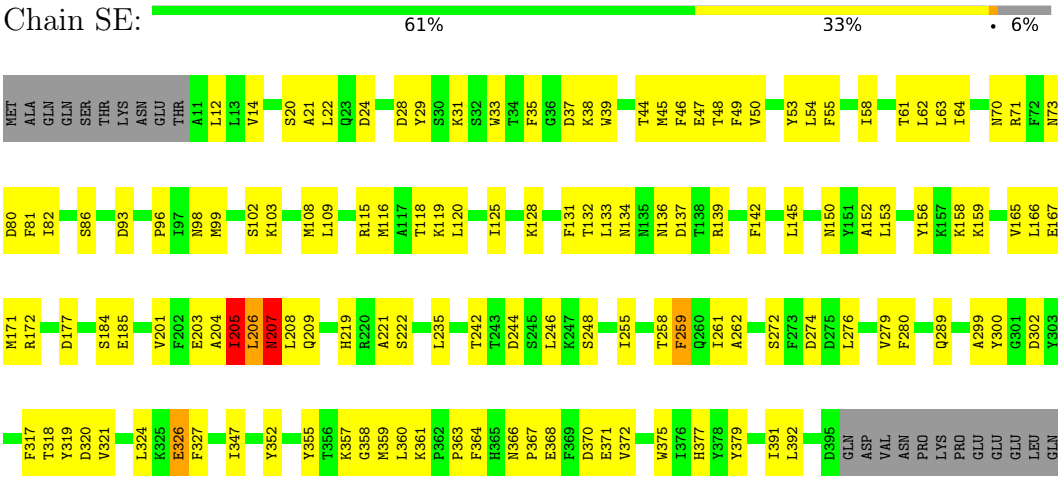
• Molecule 1: Major head protein

Chain NE:



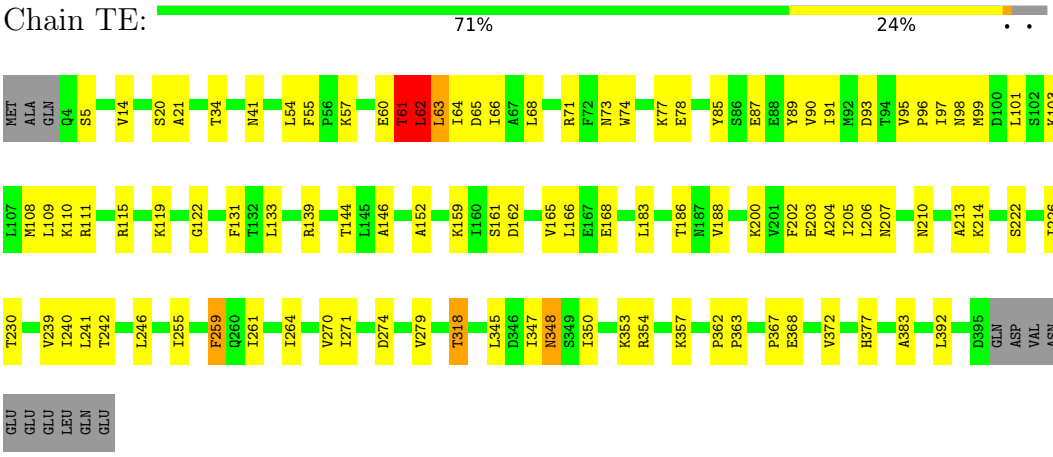
• Molecule 1: Major head protein

Chain SE:



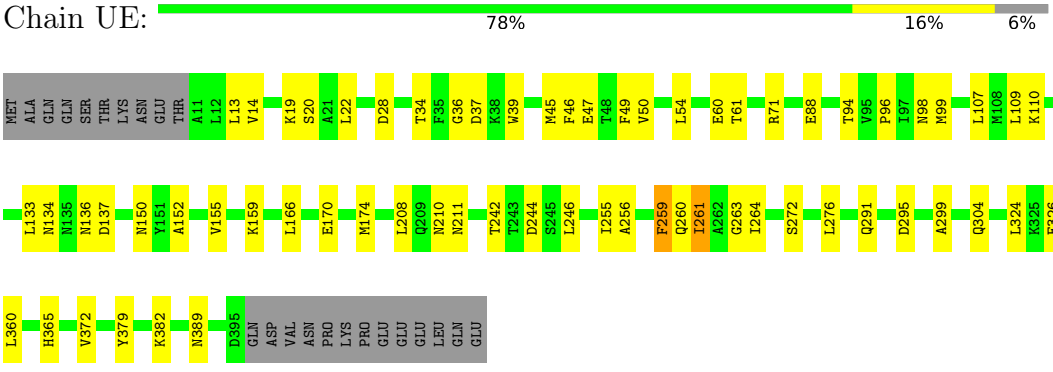
• Molecule 1: Major head protein

Chain TE:



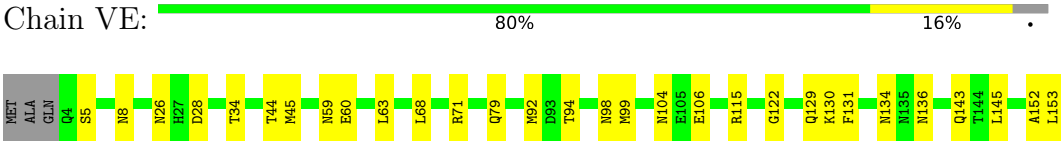
• Molecule 1: Major head protein

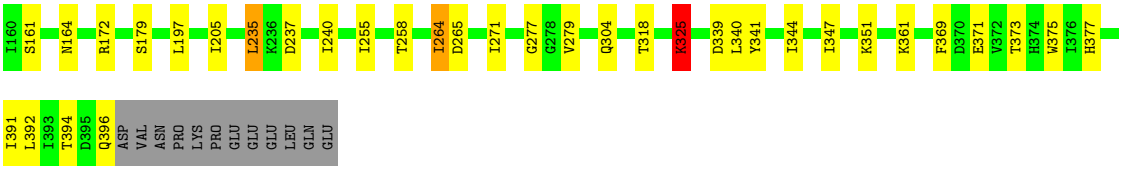
Chain UE:



• Molecule 1: Major head protein

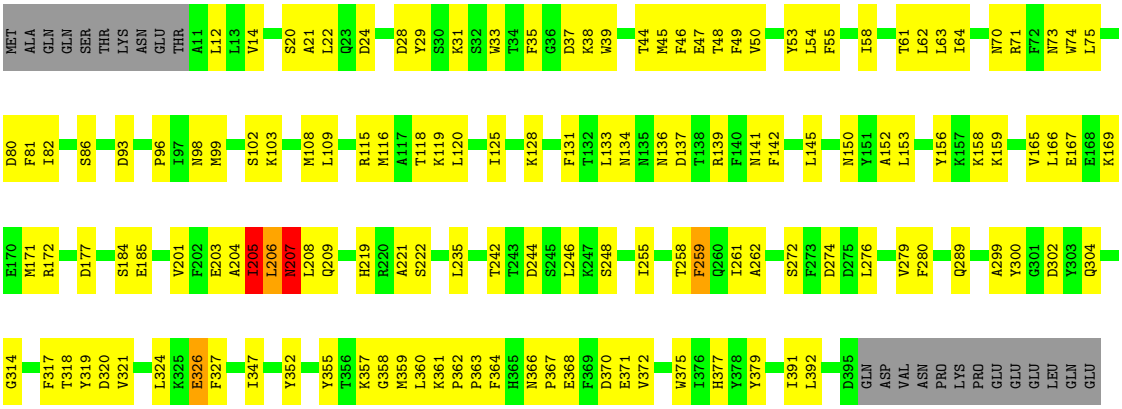
Chain VE:





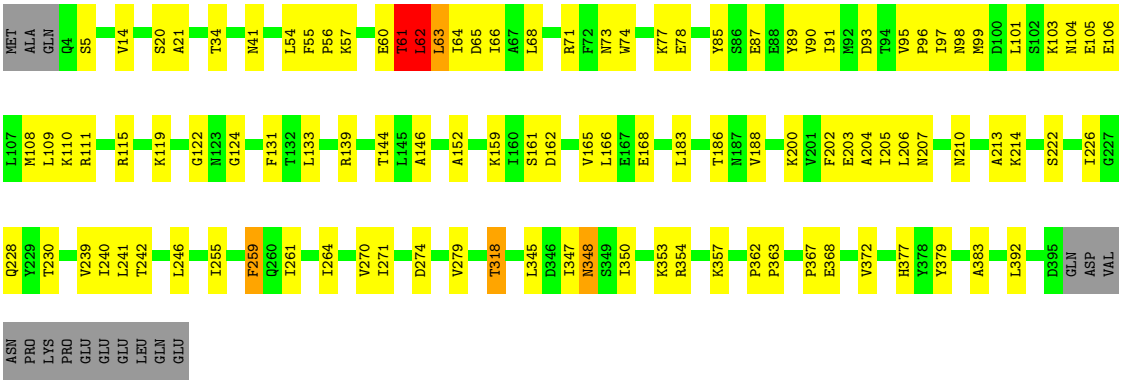
• Molecule 1: Major head protein

Chain aE:



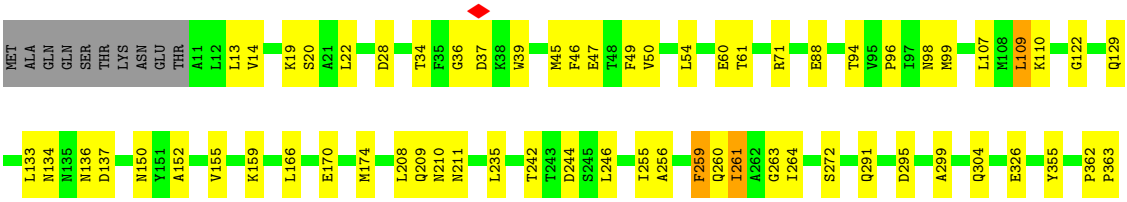
• Molecule 1: Major head protein

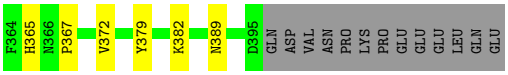
Chain bE:



• Molecule 1: Major head protein

Chain cE:



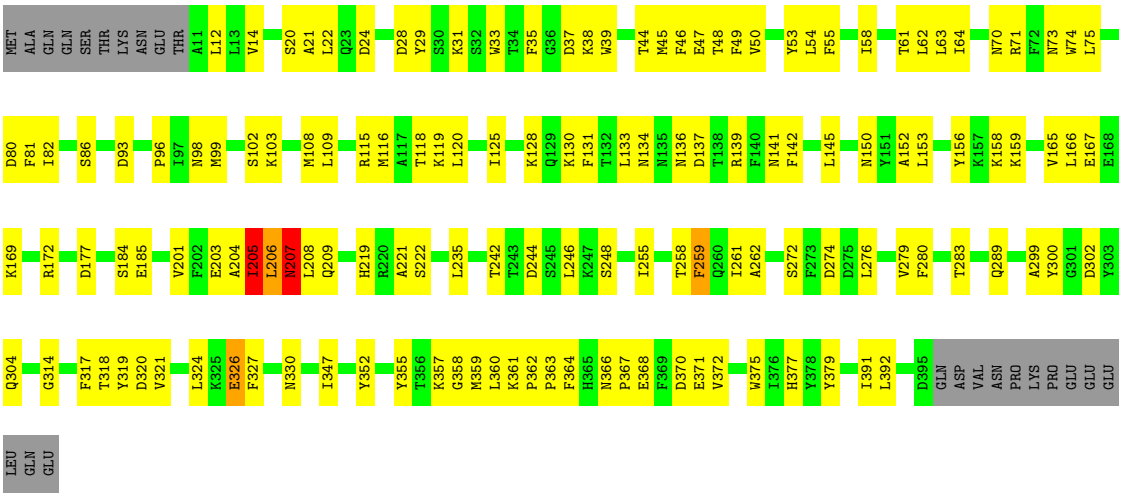


• Molecule 1: Major head protein

Chain dE:

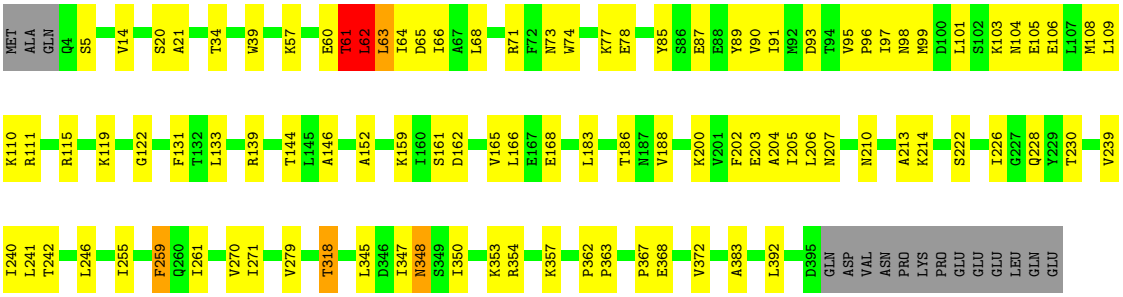
• Molecule 1: Major head protein

Chain CG:



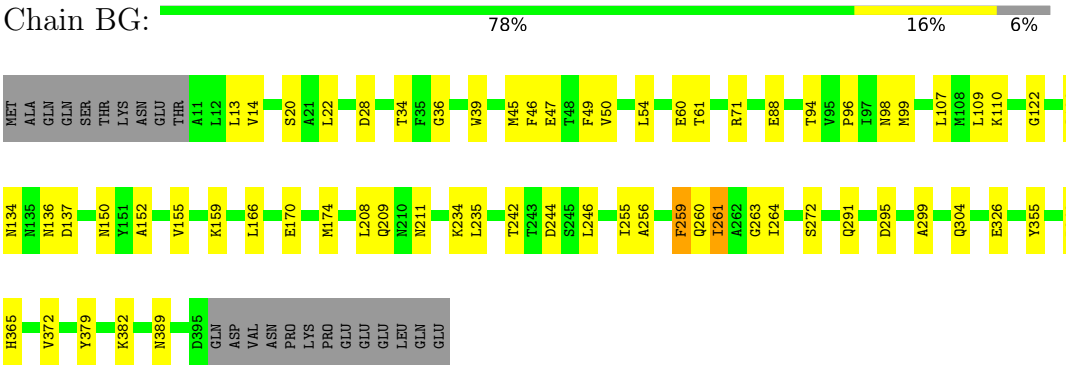
• Molecule 1: Major head protein

Chain AG:



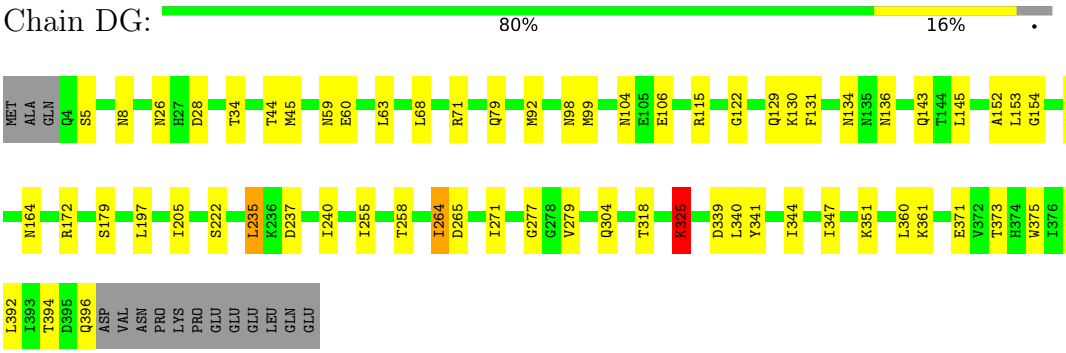
• Molecule 1: Major head protein

Chain BG:



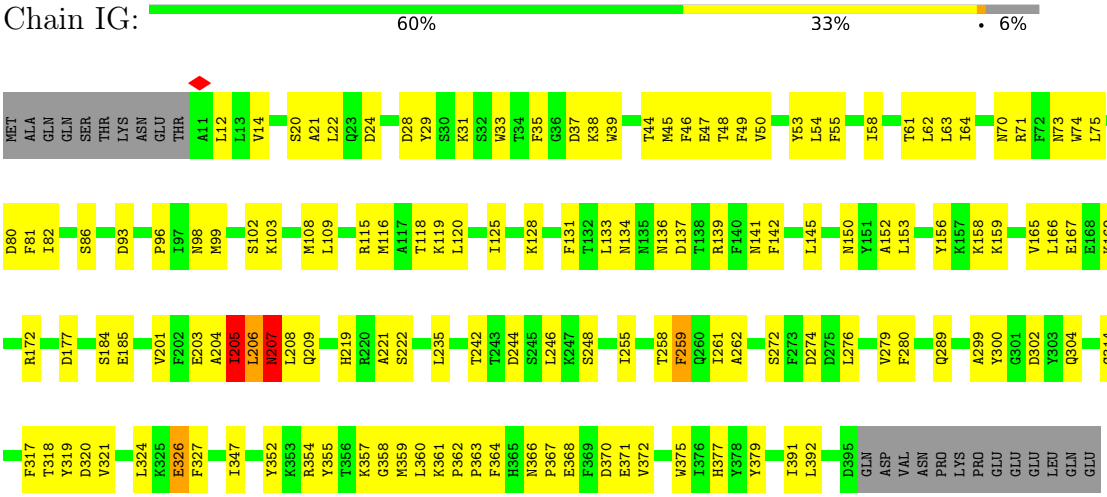
• Molecule 1: Major head protein

Chain DG:



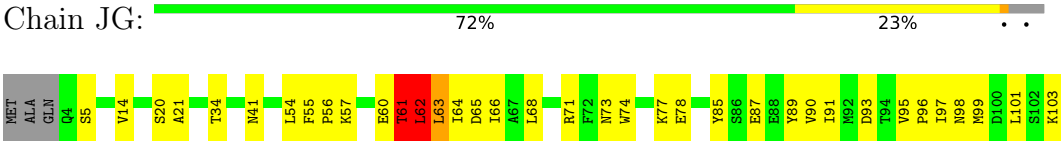
• Molecule 1: Major head protein

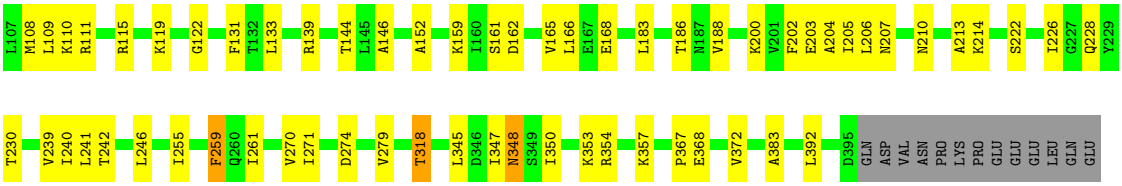
Chain IG:



• Molecule 1: Major head protein

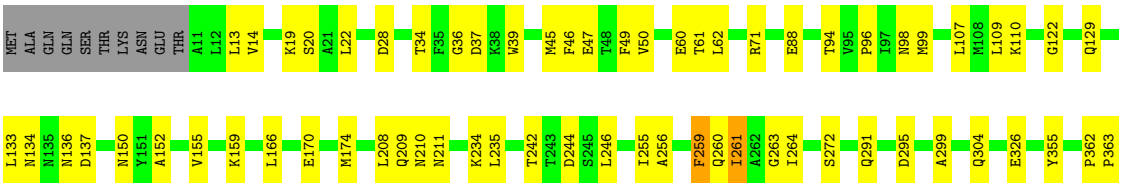
Chain JG:





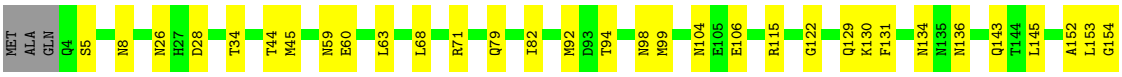
• Molecule 1: Major head protein

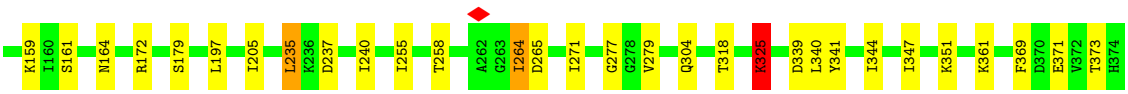
Chain KG:

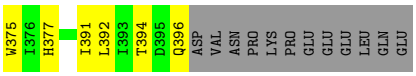


• Molecule 1: Major head protein

Chain LG:

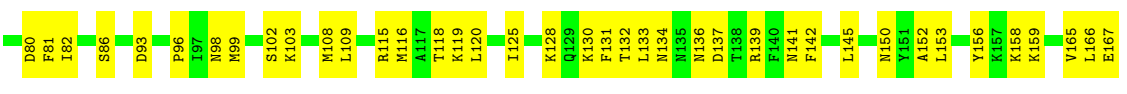


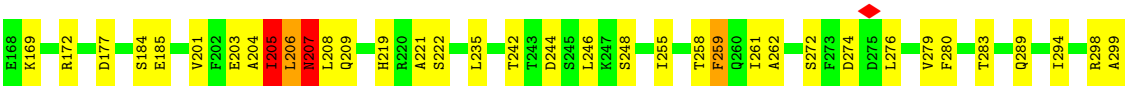


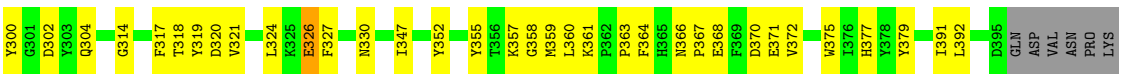


• Molecule 1: Major head protein

Chain QG:

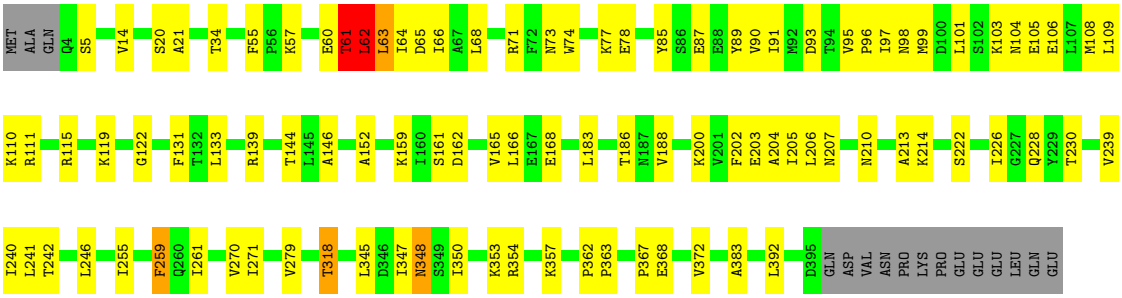






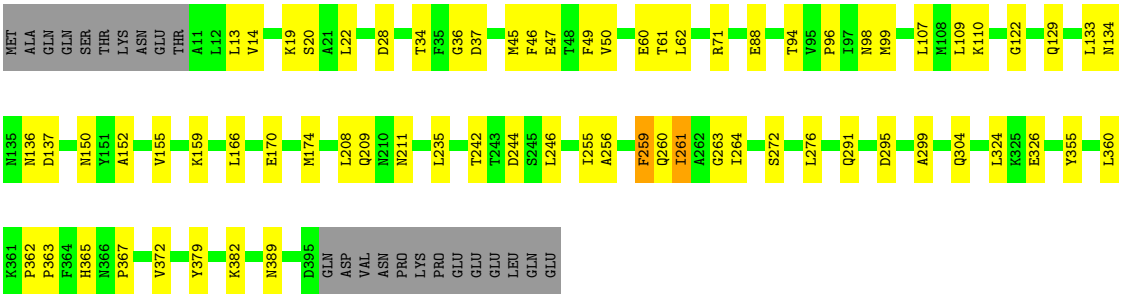
• Molecule 1: Major head protein

Chain RG:



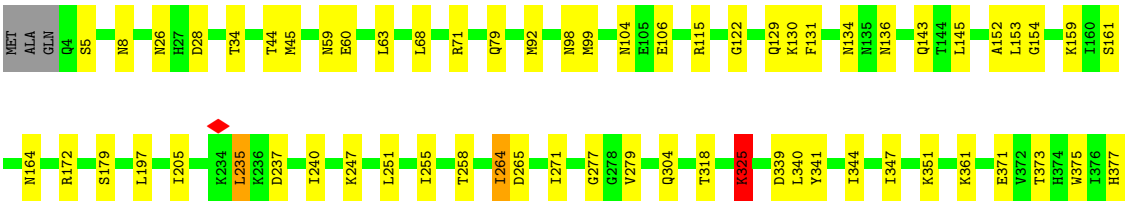
• Molecule 1: Major head protein

Chain SG:



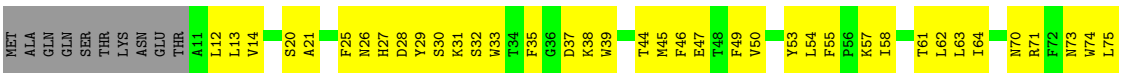
• Molecule 1: Major head protein

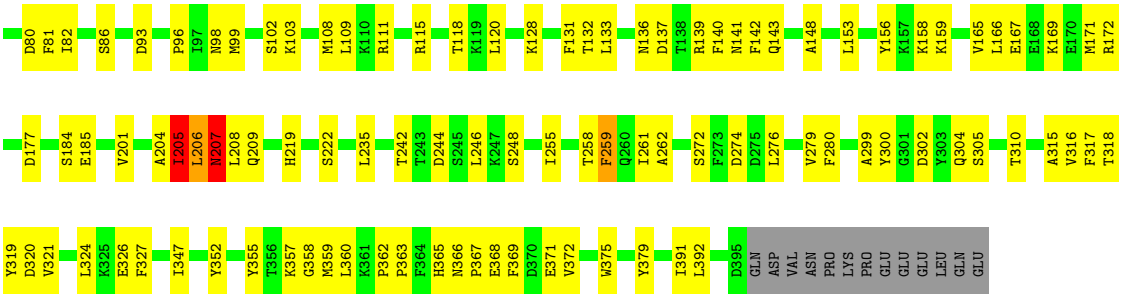
Chain TG:



• Molecule 1: Major head protein

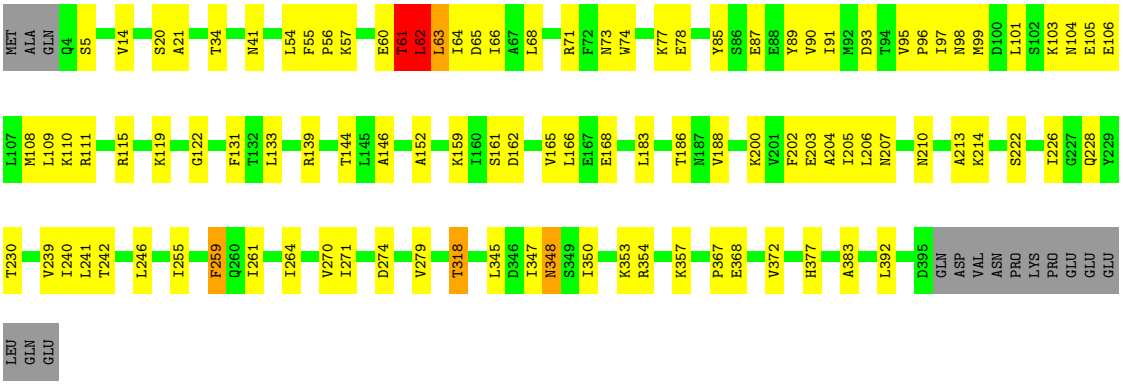
Chain YG:





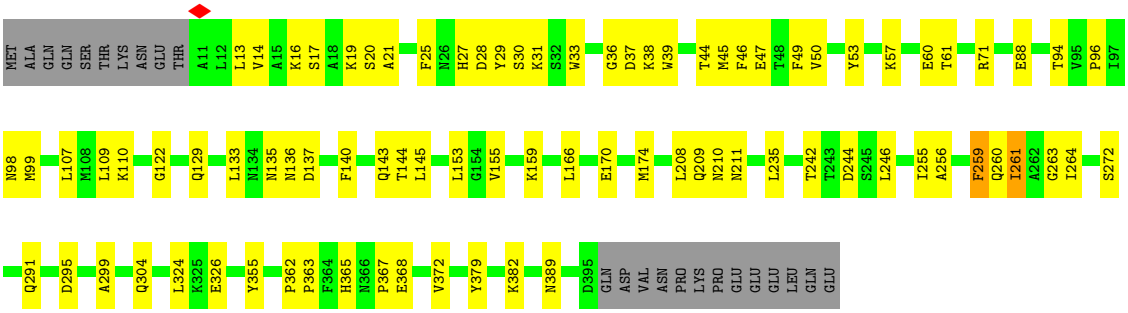
• Molecule 1: Major head protein

Chain ZG:



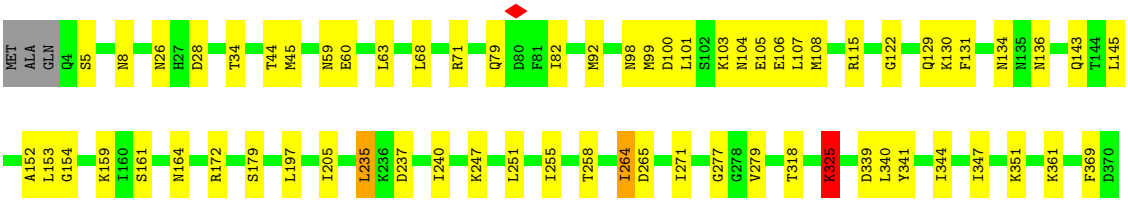
• Molecule 1: Major head protein

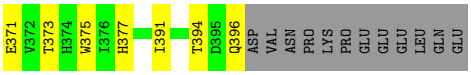
Chain aG:



• Molecule 1: Major head protein

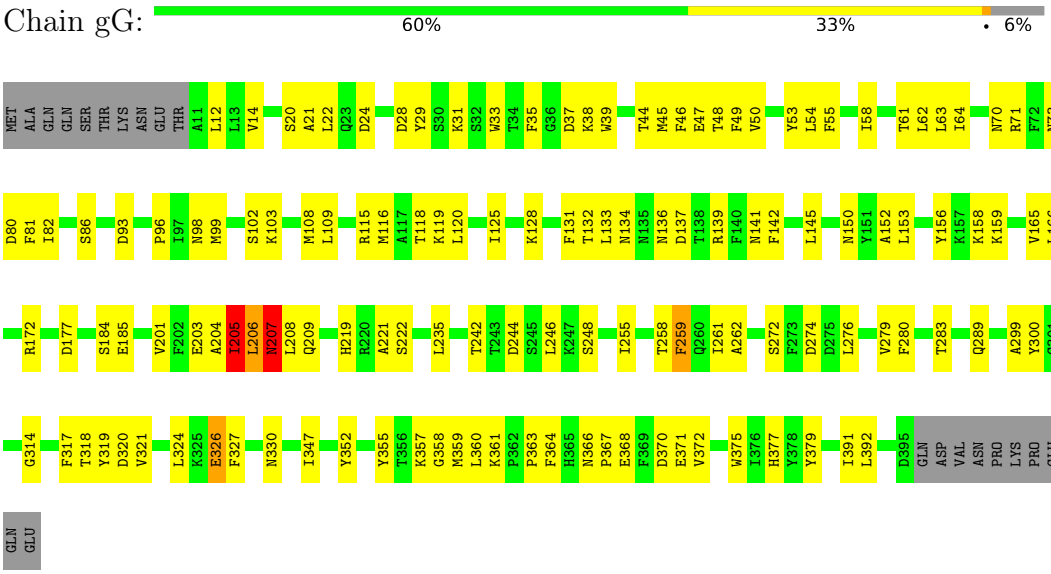
Chain bG:





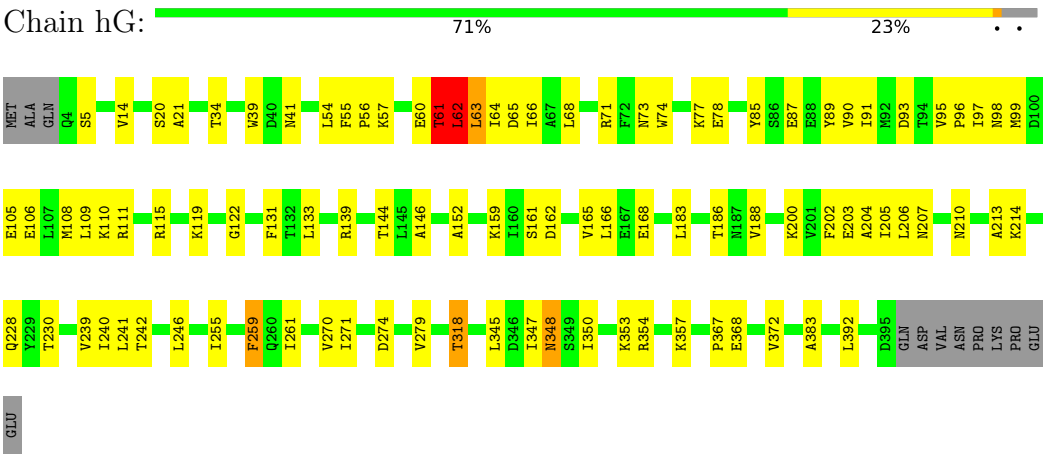
• Molecule 1: Major head protein

Chain gG:



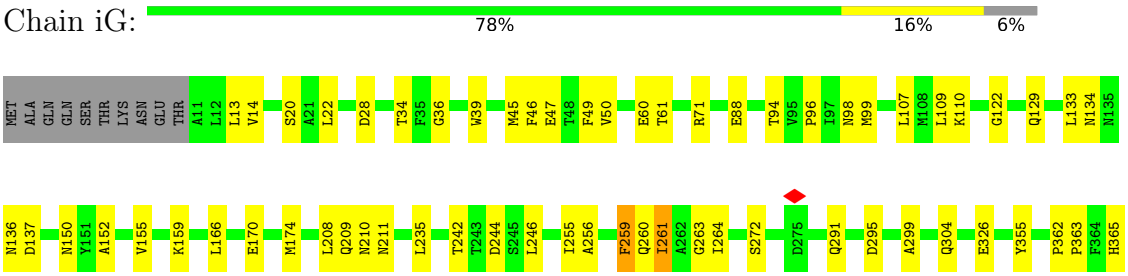
• Molecule 1: Major head protein

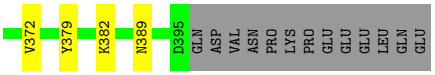
Chain hG:



• Molecule 1: Major head protein

Chain iG:



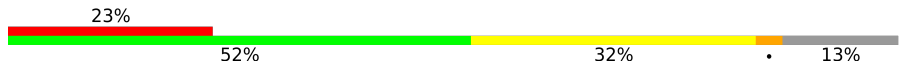


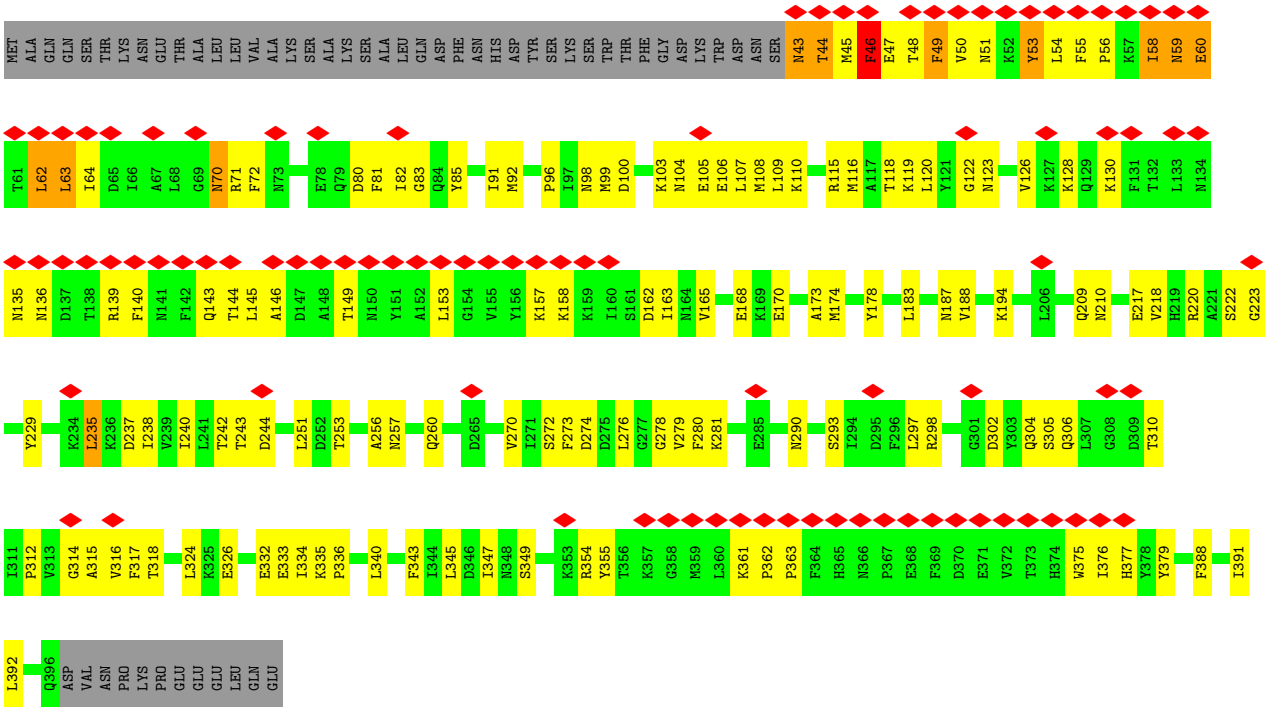
• Molecule 1: Major head protein

Chain jG:

• Molecule 1: Major head protein

Chain AJ:



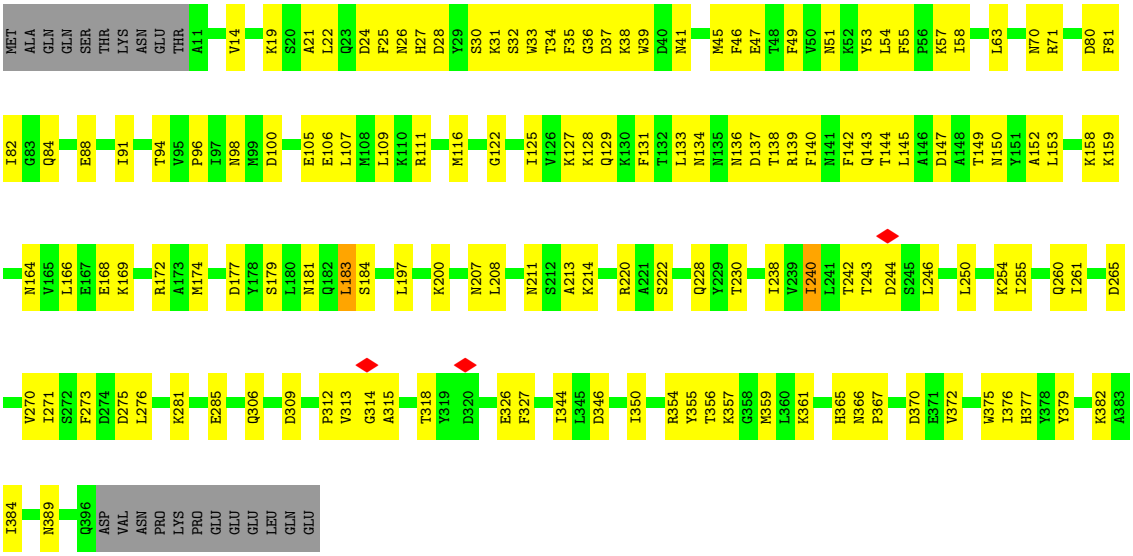


• Molecule 1: Major head protein

Chain BJ:

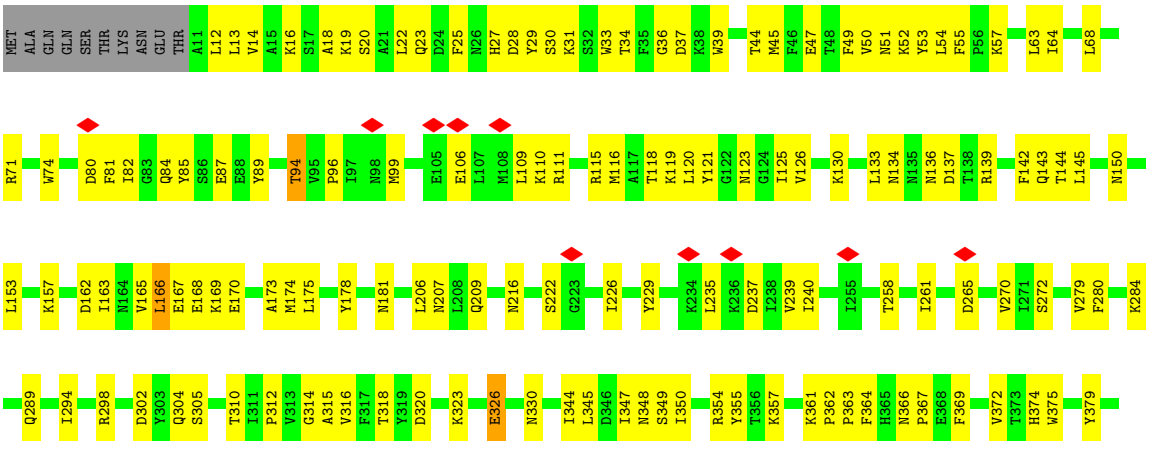
• Molecule 1: Major head protein

Chain CJ:



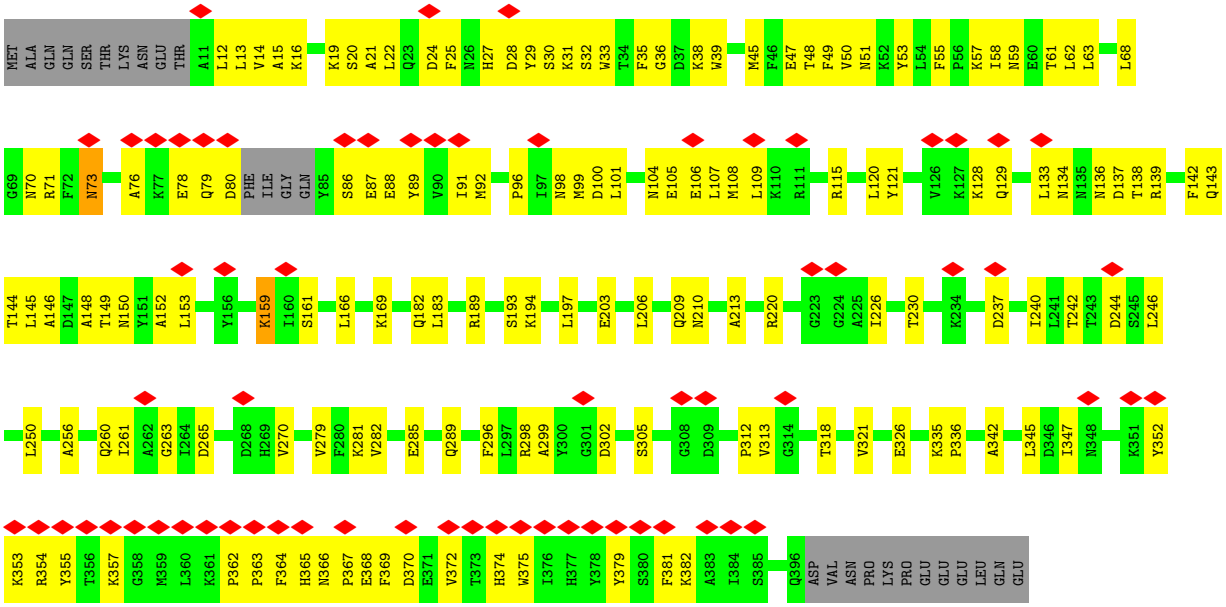
• Molecule 1: Major head protein

Chain DJ:



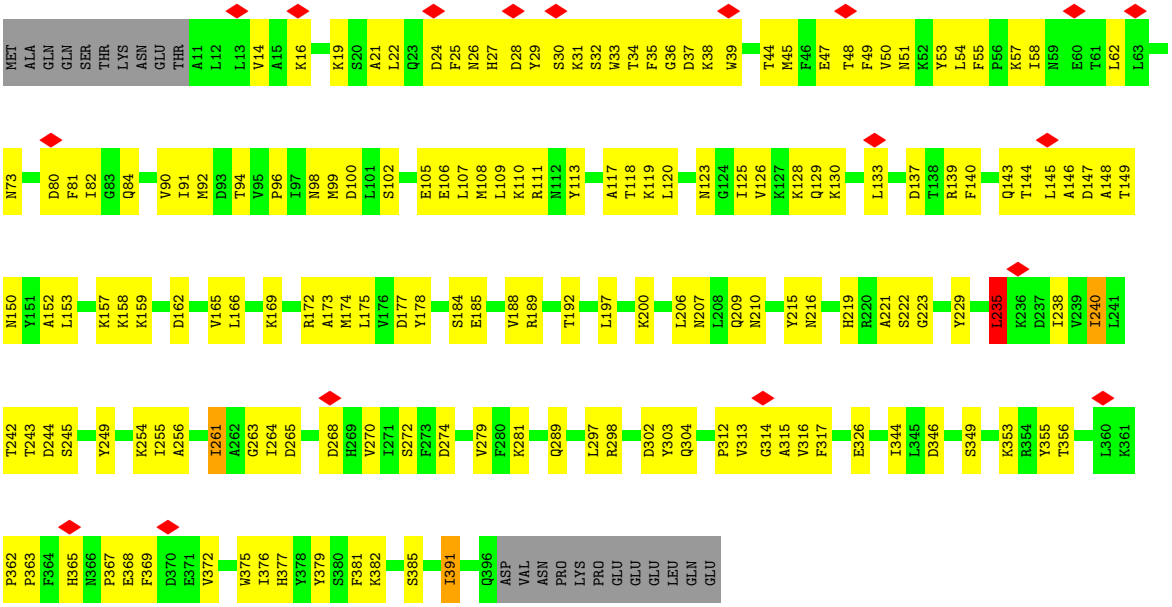
• Molecule 1: Major head protein

Chain KJ:



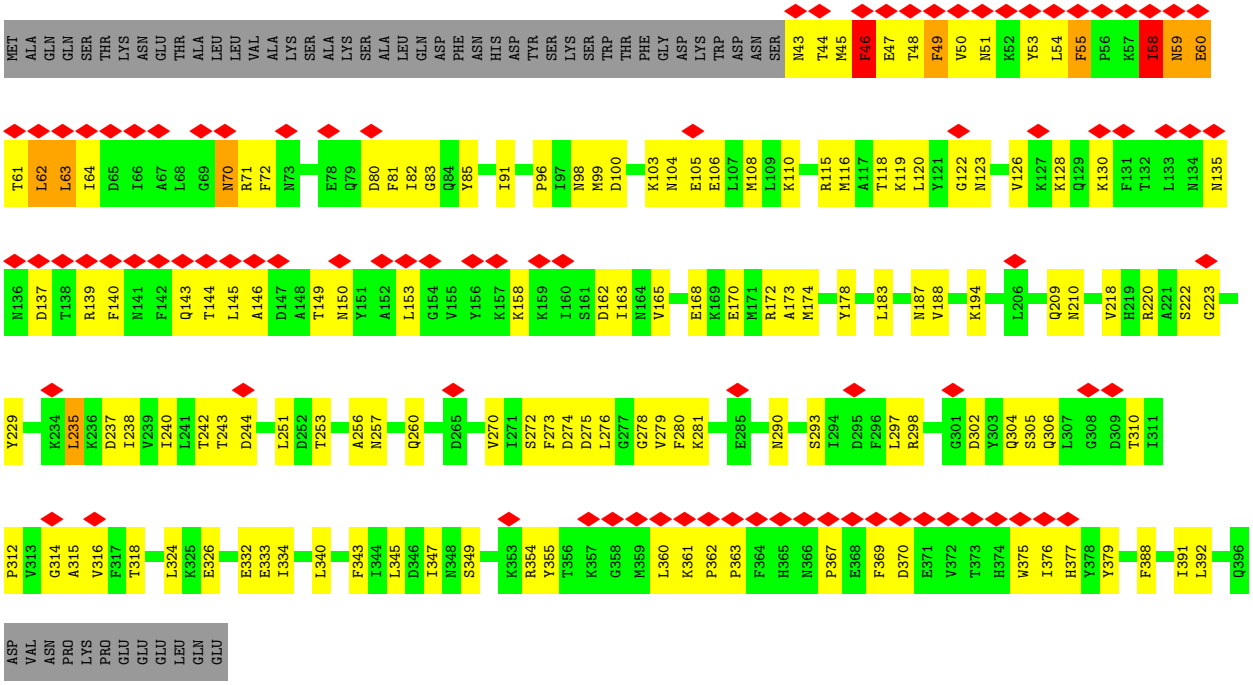
• Molecule 1: Major head protein

Chain LJ:



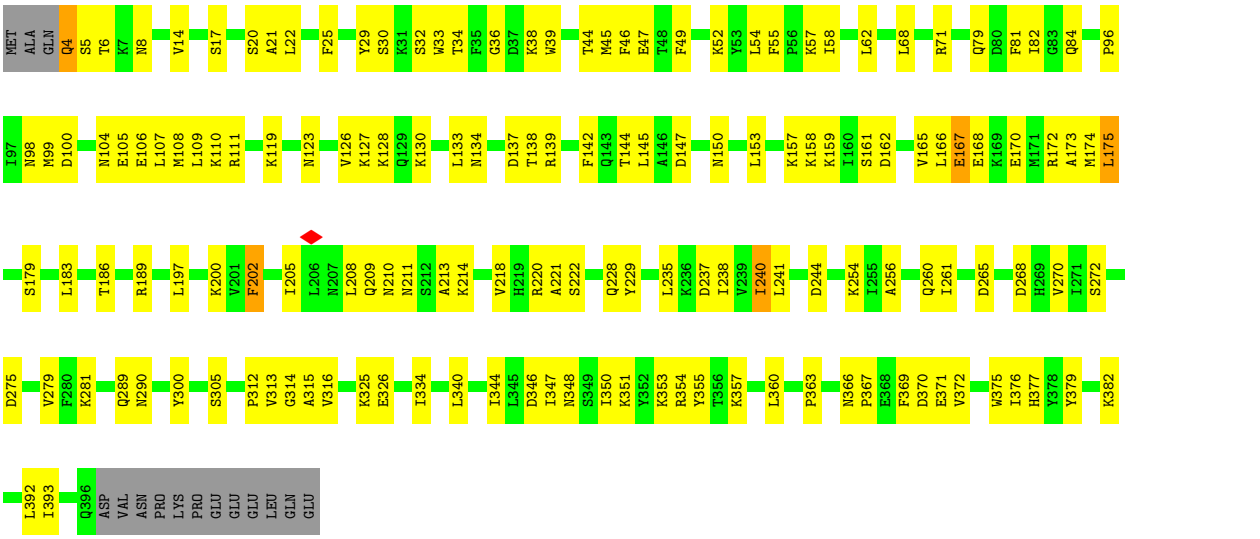
• Molecule 1: Major head protein

Chain AK:



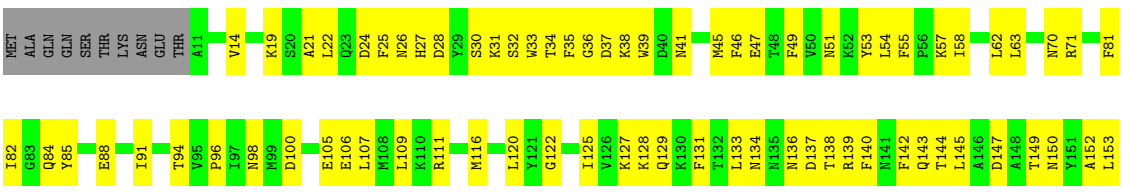
• Molecule 1: Major head protein

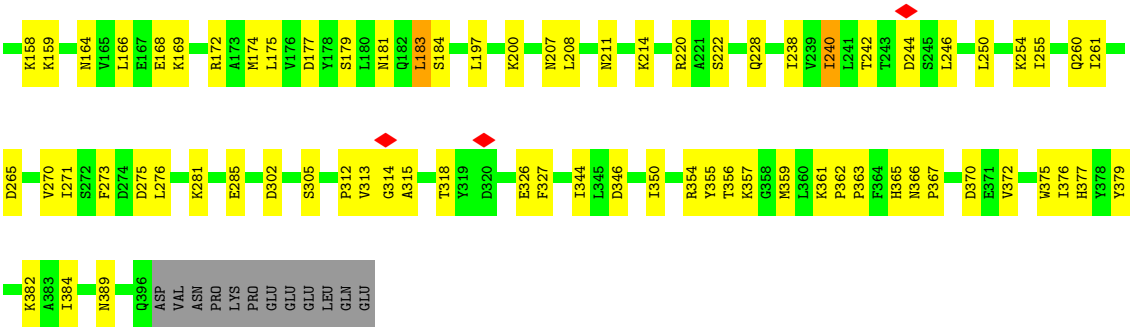
Chain BK:



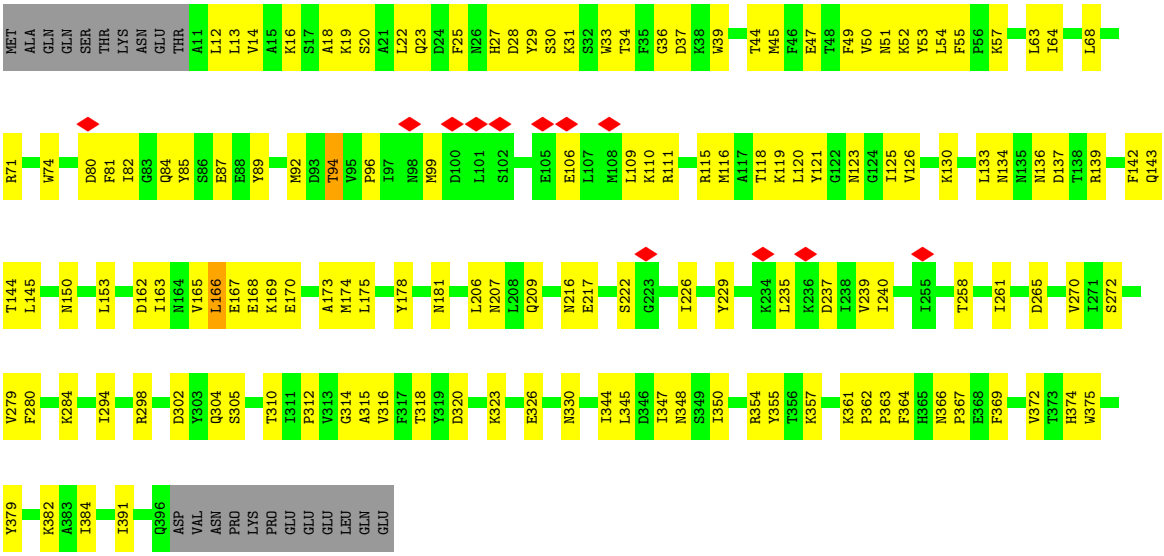
• Molecule 1: Major head protein

Chain CK:

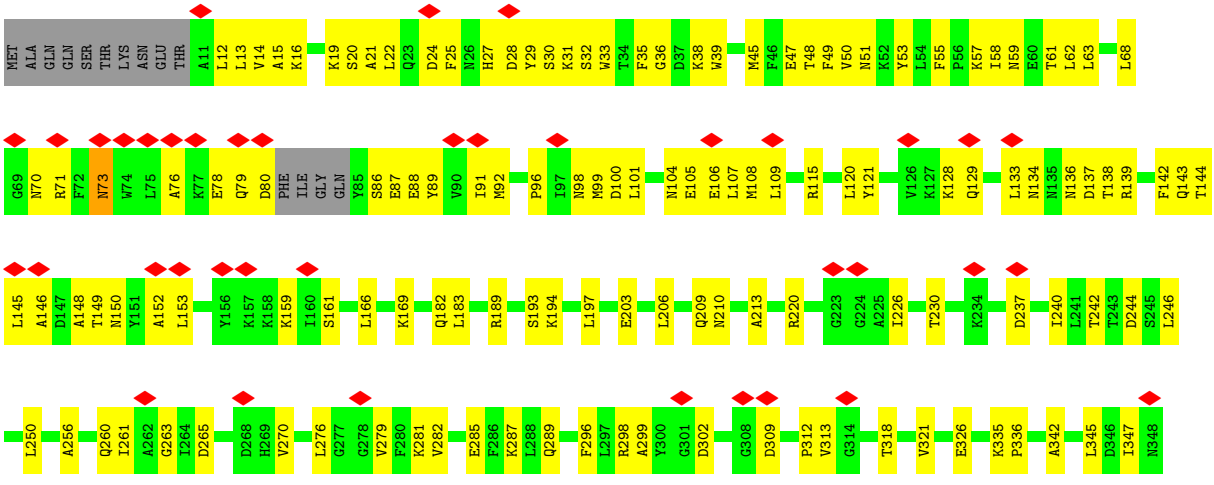


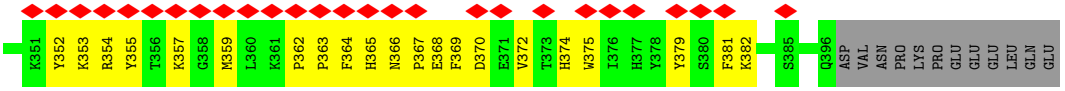


• Molecule 1: Major head protein



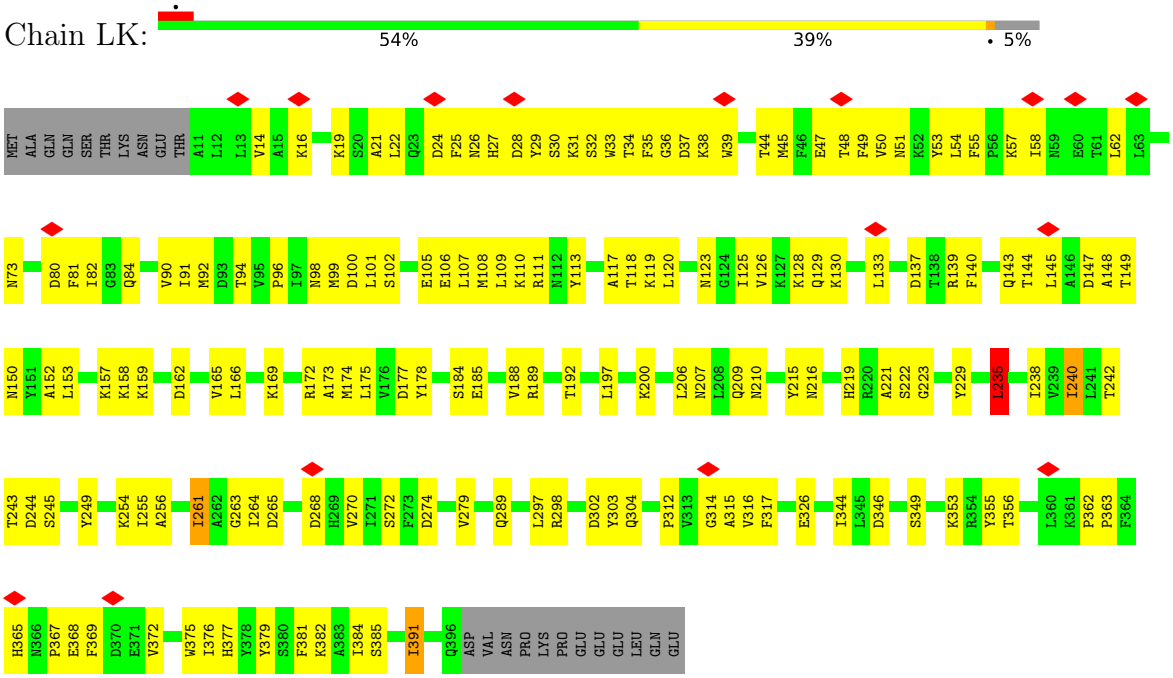
• Molecule 1: Major head protein





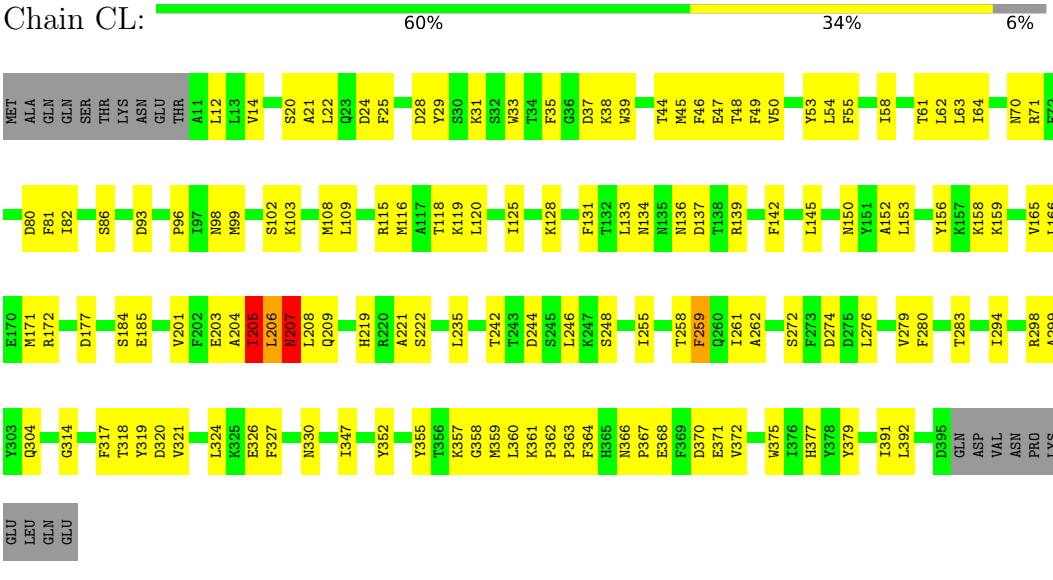
• Molecule 1: Major head protein

Chain LK:



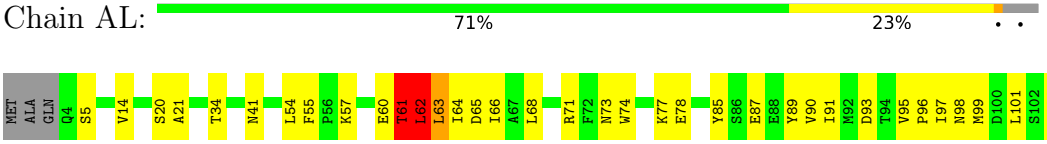
• Molecule 1: Major head protein

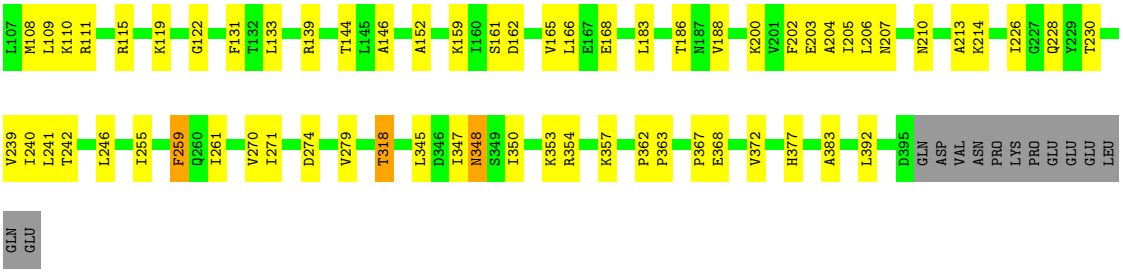
Chain CL:



• Molecule 1: Major head protein

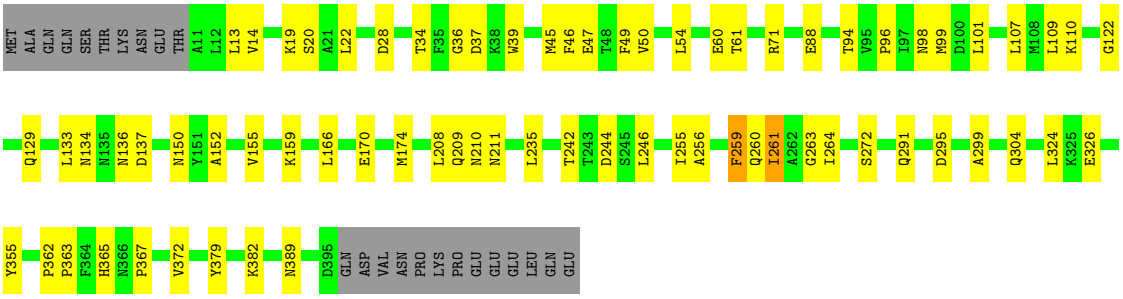
Chain AL:





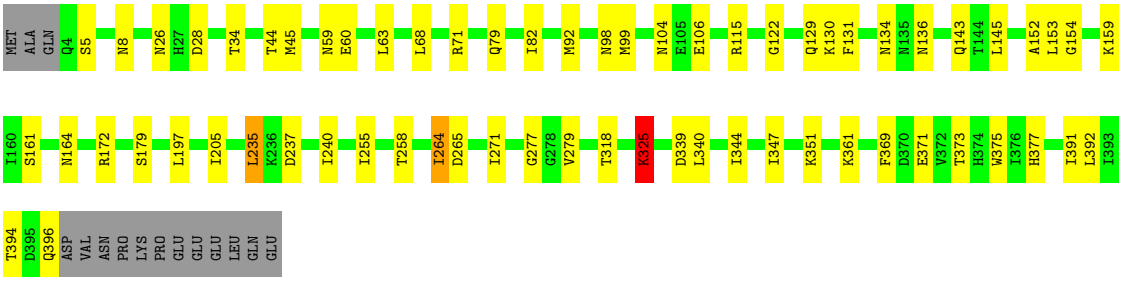
• Molecule 1: Major head protein

Chain BL:



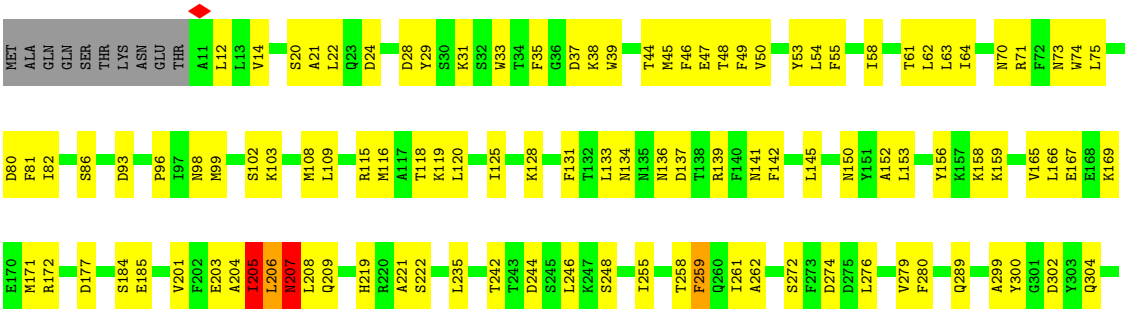
• Molecule 1: Major head protein

Chain DL:



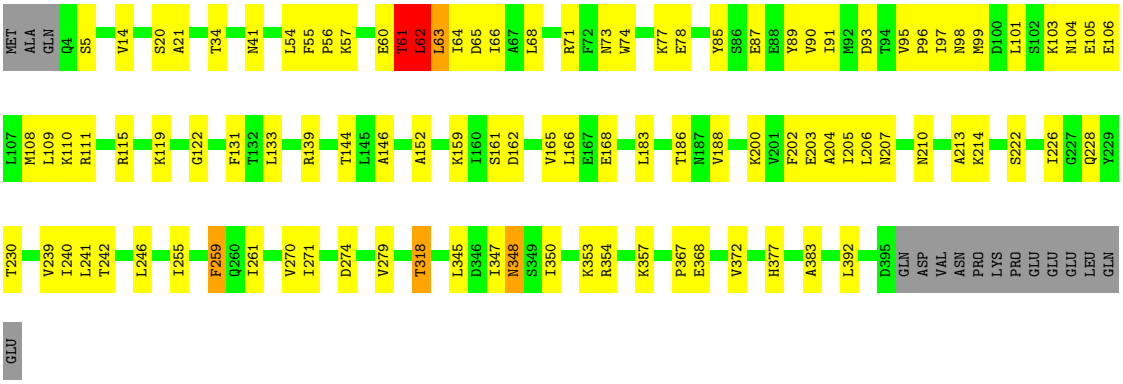
• Molecule 1: Major head protein

Chain IL:



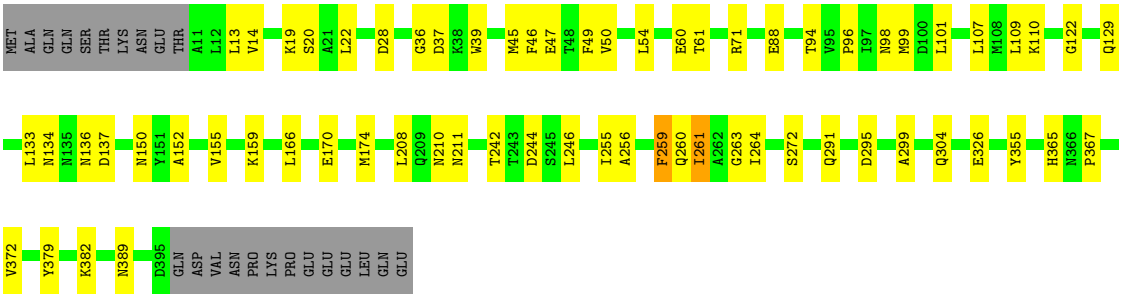
• Molecule 1: Major head protein

Chain JL:



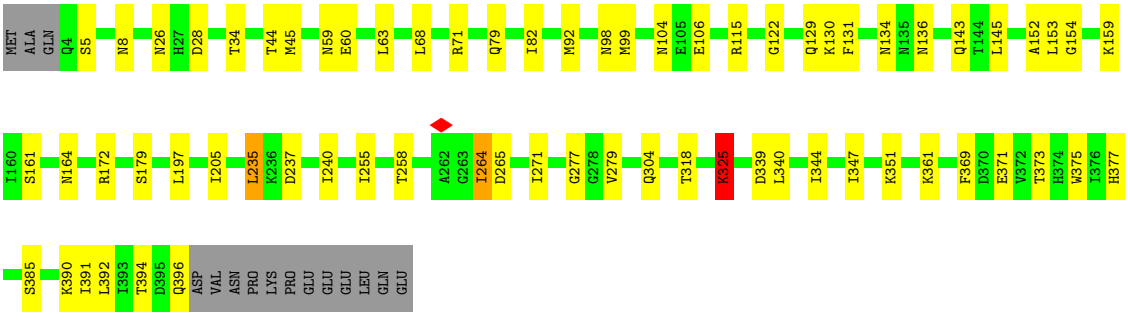
• Molecule 1: Major head protein

Chain KL:



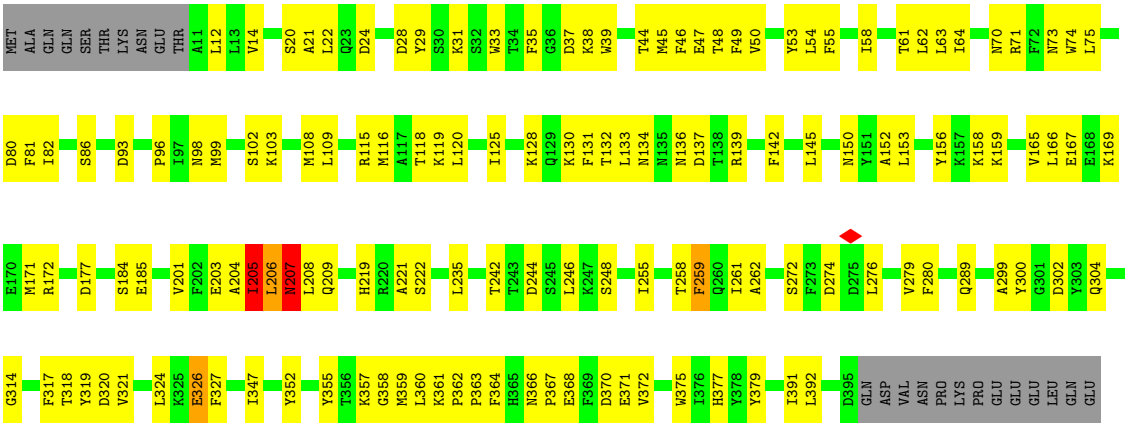
• Molecule 1: Major head protein

Chain LL:



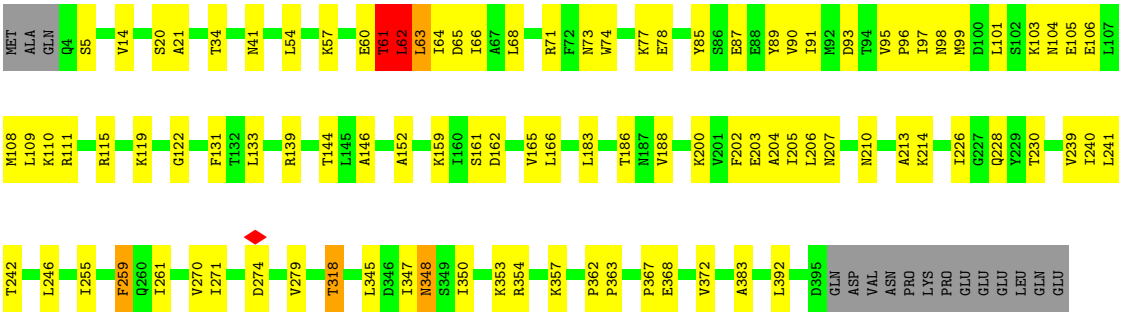
• Molecule 1: Major head protein

Chain QL:



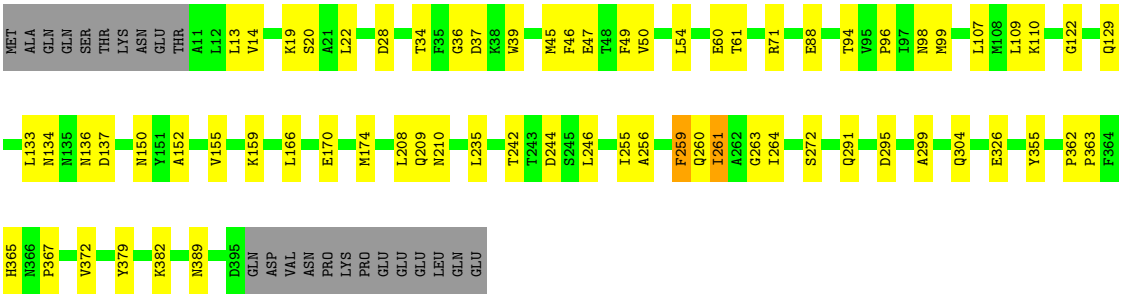
• Molecule 1: Major head protein

Chain RL:



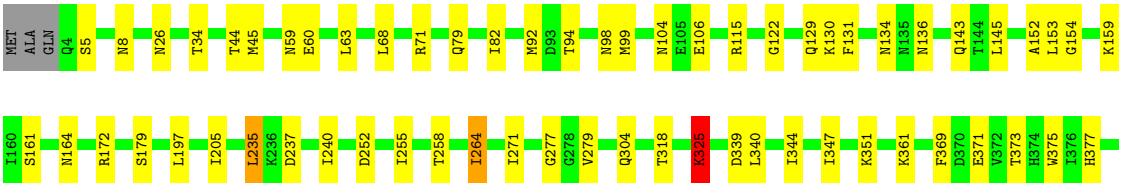
• Molecule 1: Major head protein

Chain SL:



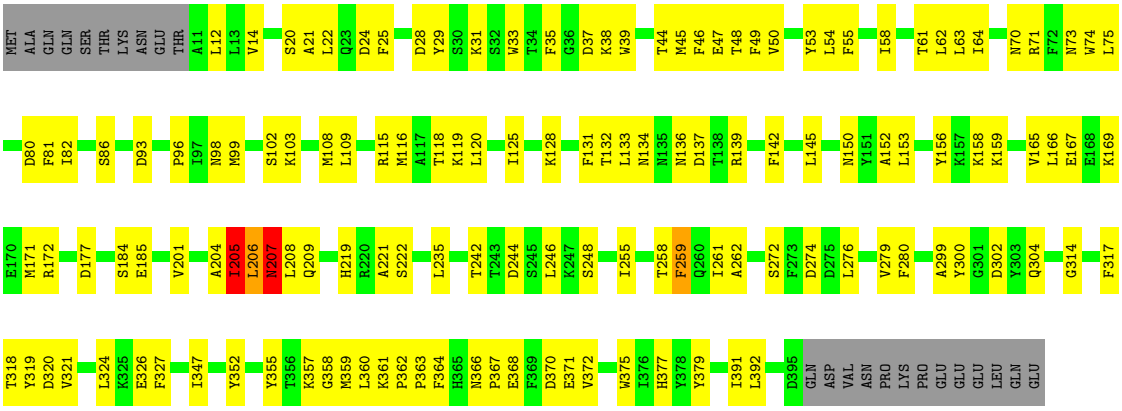
• Molecule 1: Major head protein

Chain TL:



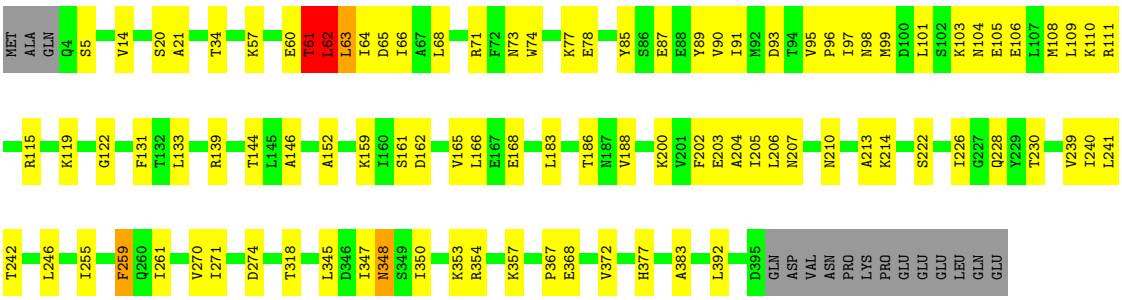
• Molecule 1: Major head protein

Chain YL:



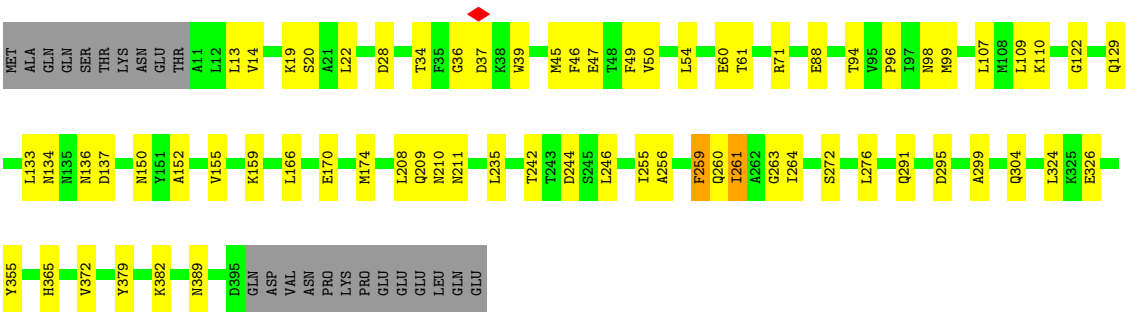
• Molecule 1: Major head protein

Chain ZL:



• Molecule 1: Major head protein

Chain aL:

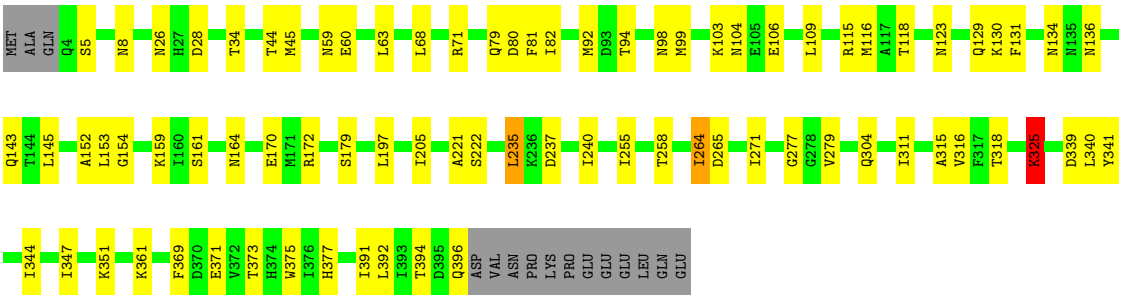


• Molecule 1: Major head protein

Chain bL:

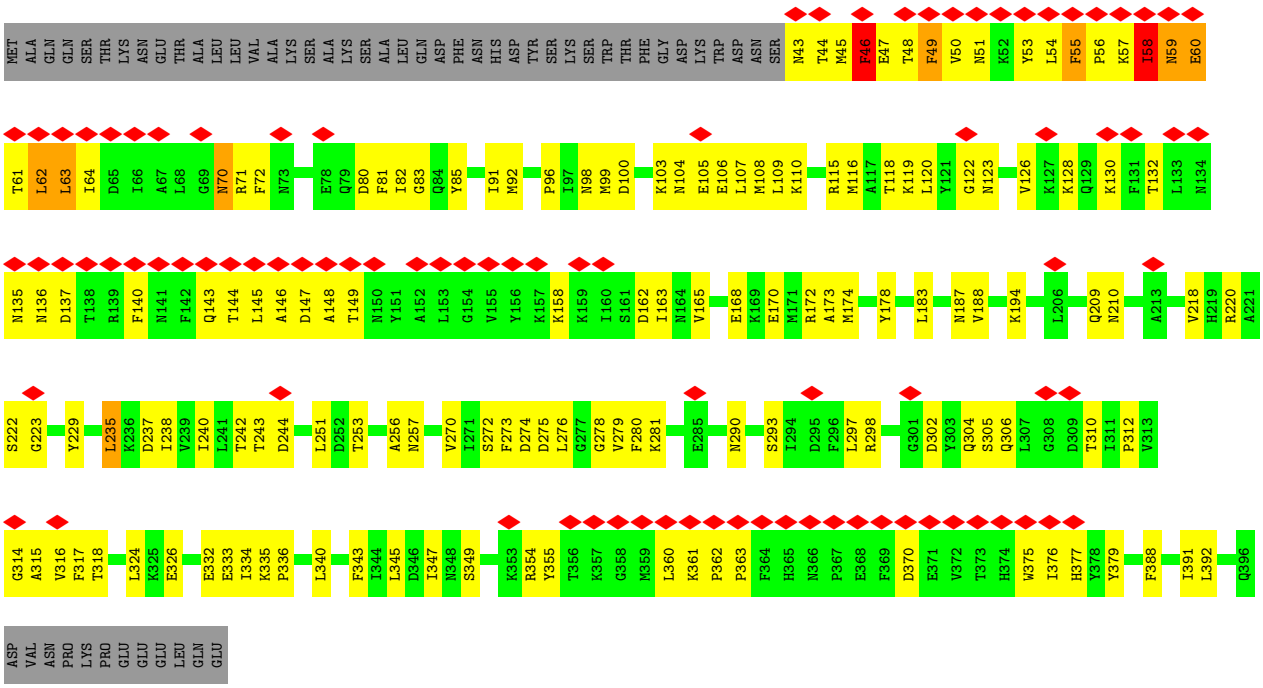
• Molecule 1: Major head protein

Chain gL:



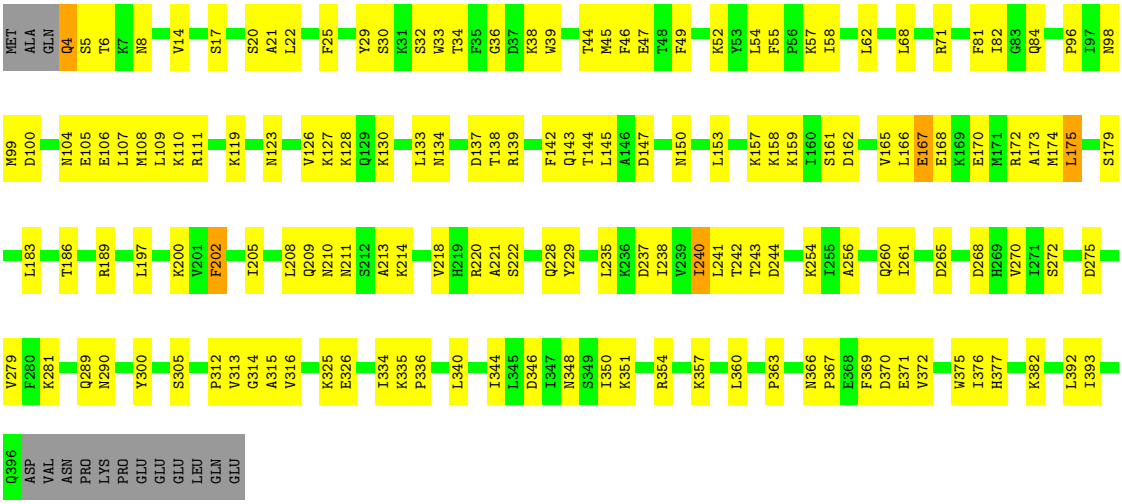
• Molecule 1: Major head protein

Chain AP:



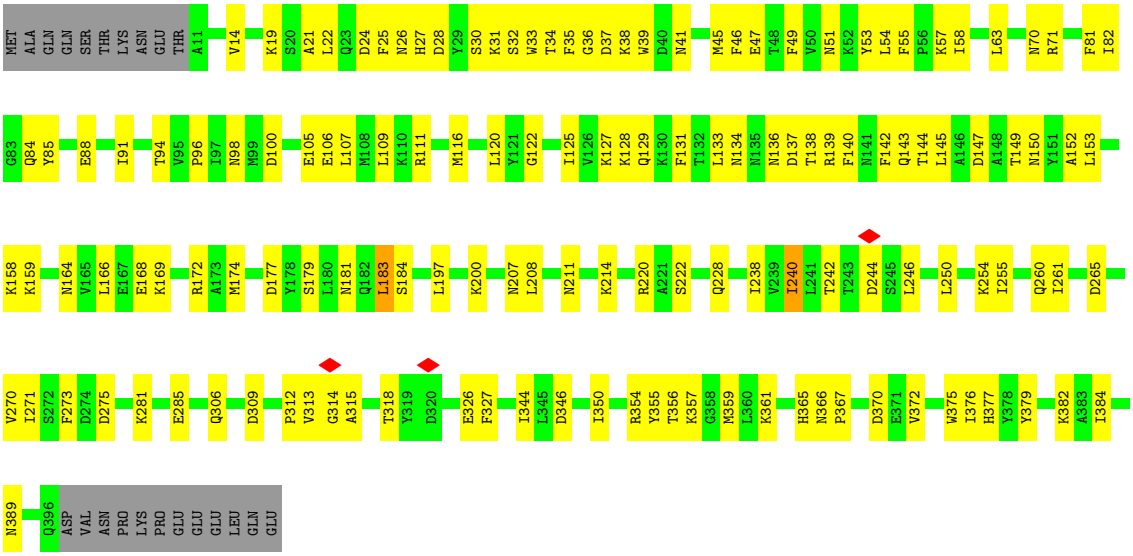
• Molecule 1: Major head protein

Chain BP:



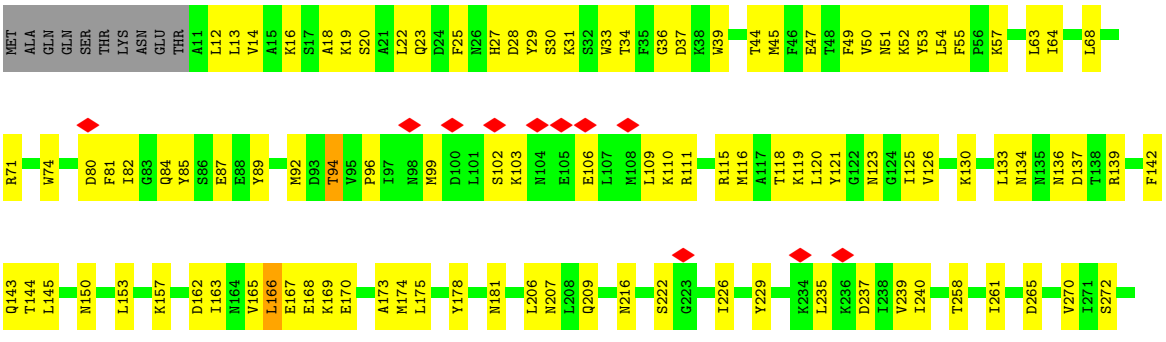
• Molecule 1: Major head protein

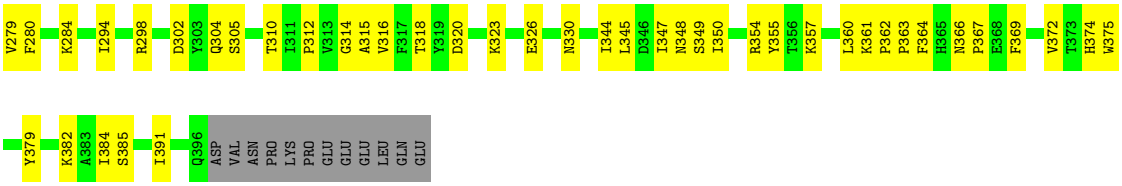
Chain CP:



• Molecule 1: Major head protein

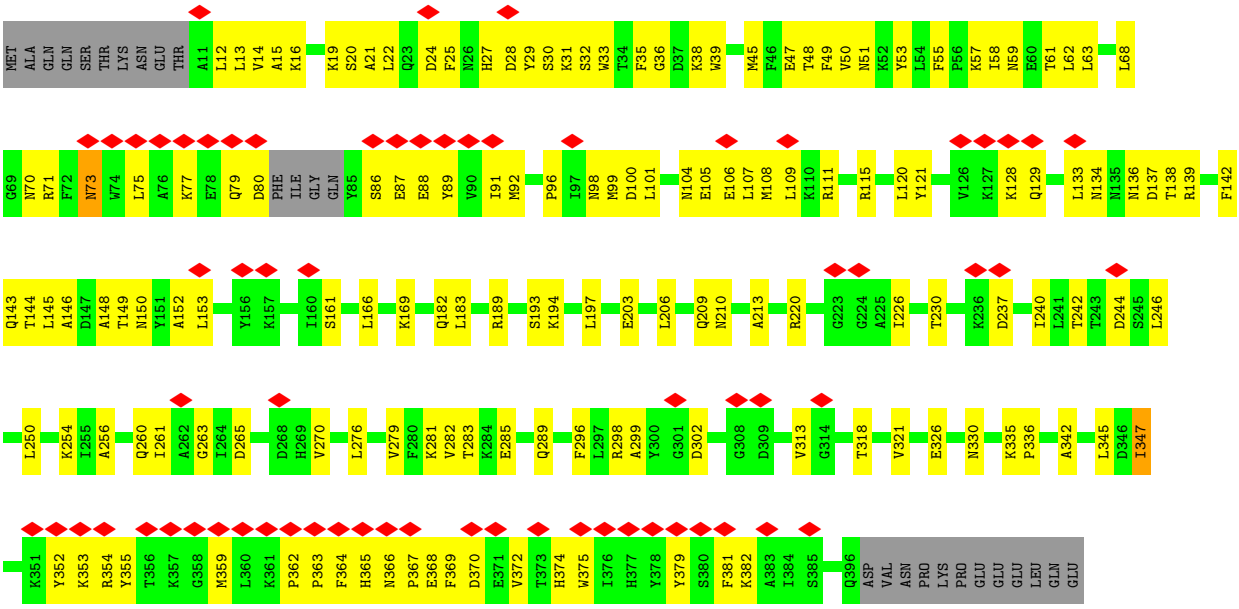
Chain DP:





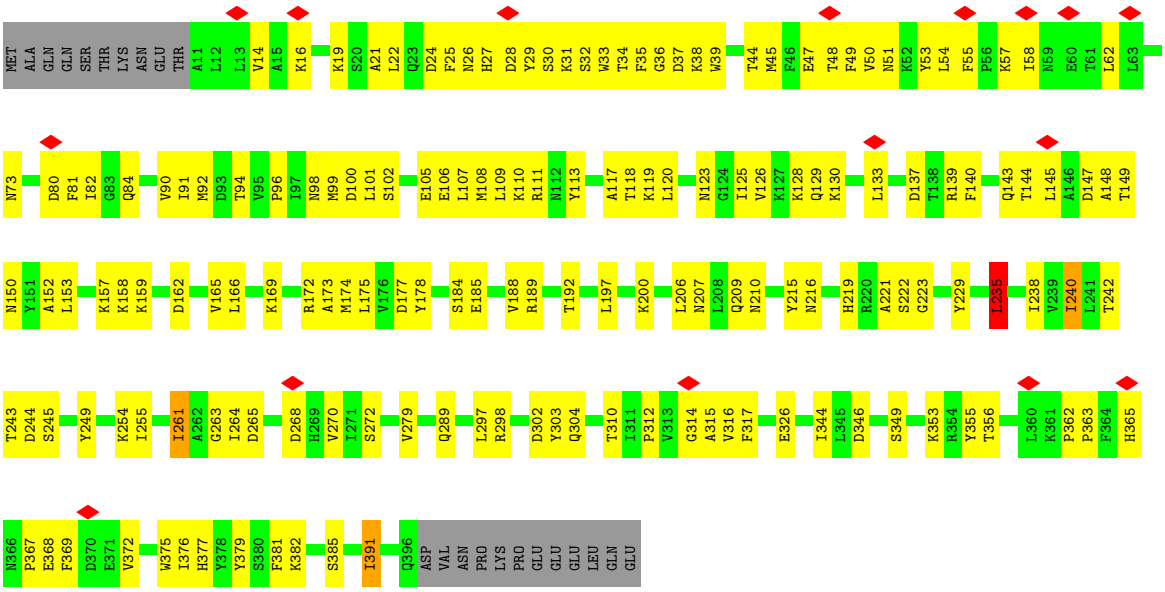
• Molecule 1: Major head protein

Chain KP:



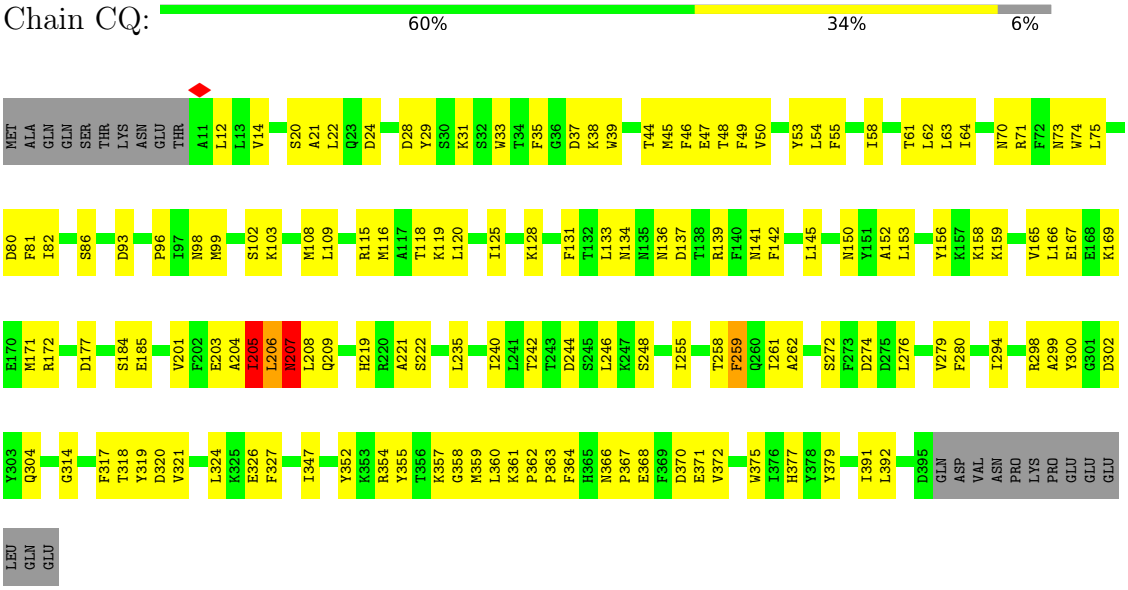
• Molecule 1: Major head protein

Chain LP:



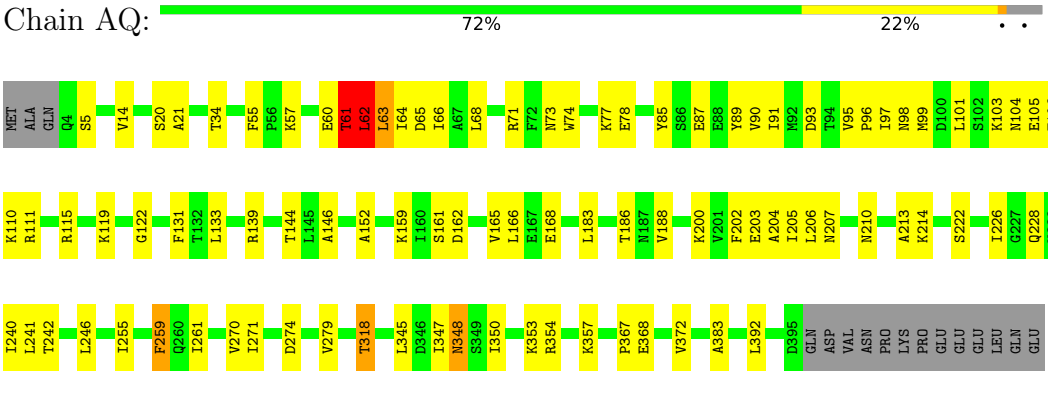
• Molecule 1: Major head protein

Chain CQ:



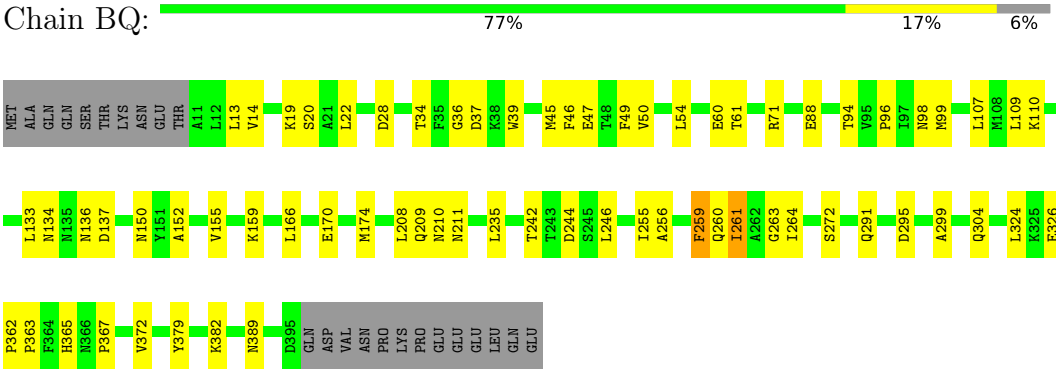
• Molecule 1: Major head protein

Chain AQ:



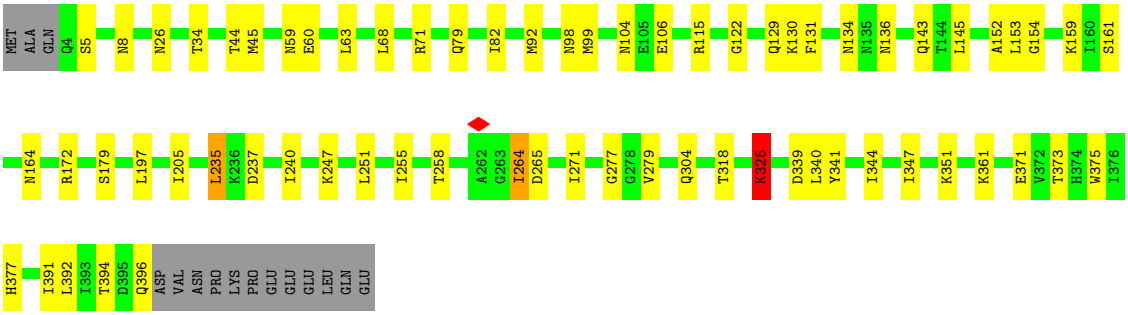
• Molecule 1: Major head protein

Chain BQ:



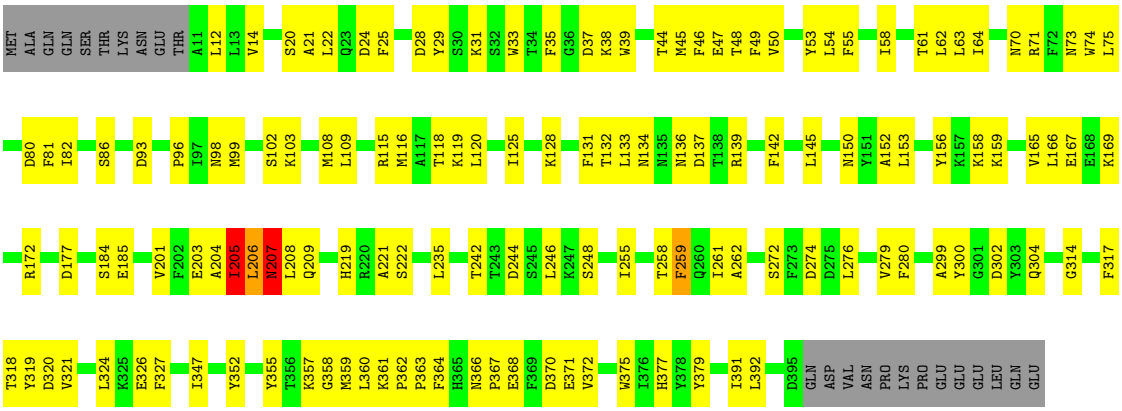
• Molecule 1: Major head protein

Chain DQ:



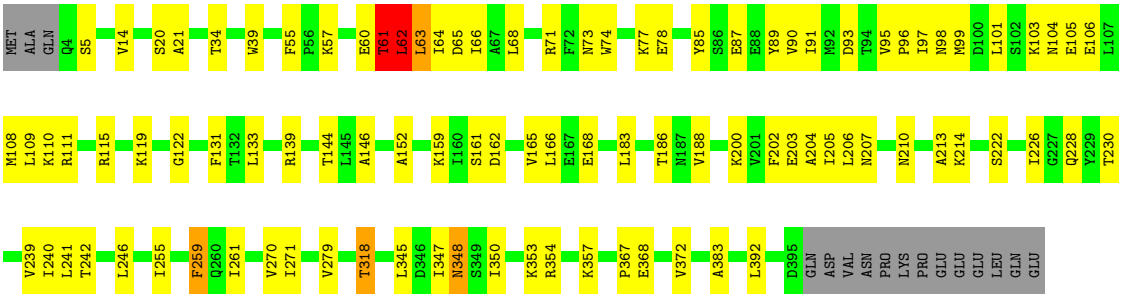
• Molecule 1: Major head protein

Chain IQ:



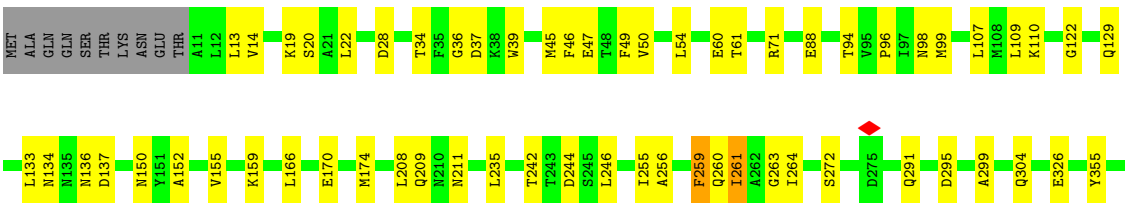
• Molecule 1: Major head protein

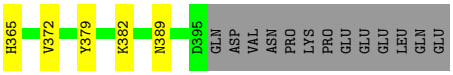
Chain JQ:



• Molecule 1: Major head protein

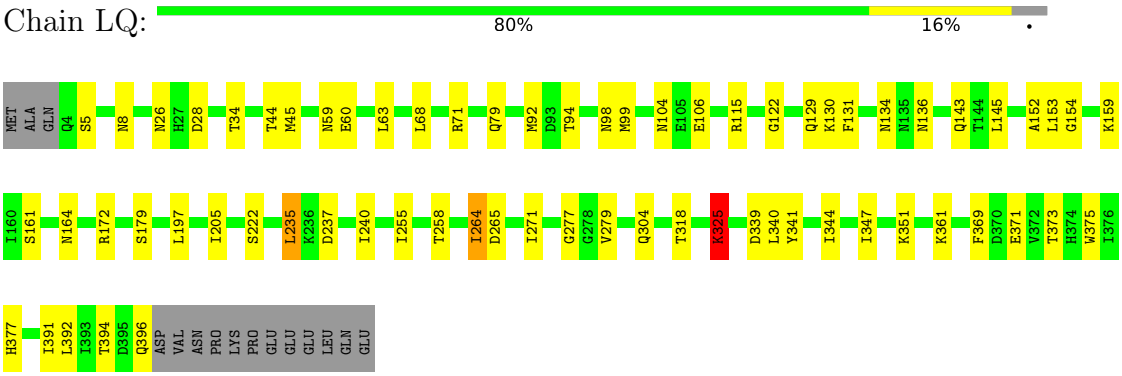
Chain KQ:





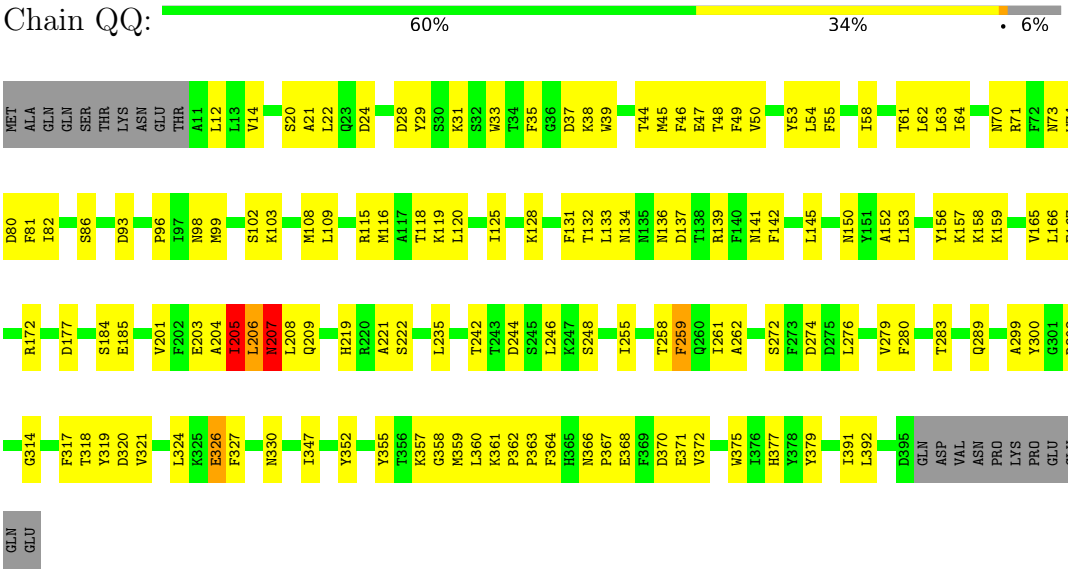
• Molecule 1: Major head protein

Chain LQ:



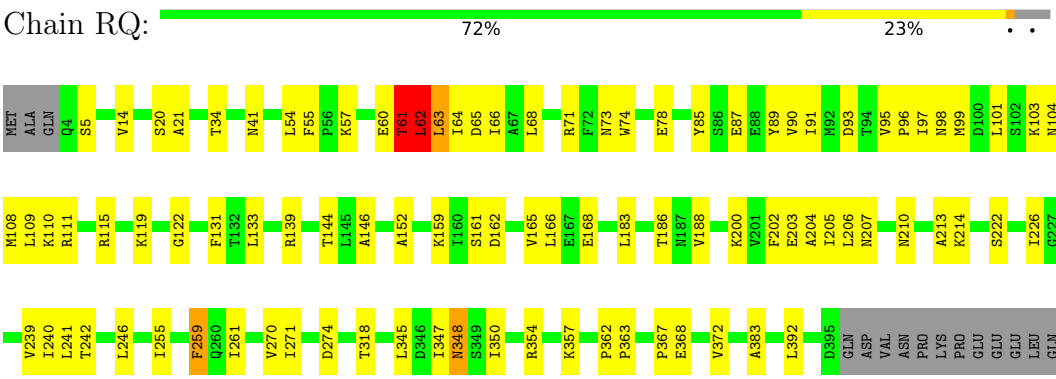
• Molecule 1: Major head protein

Chain QQ:



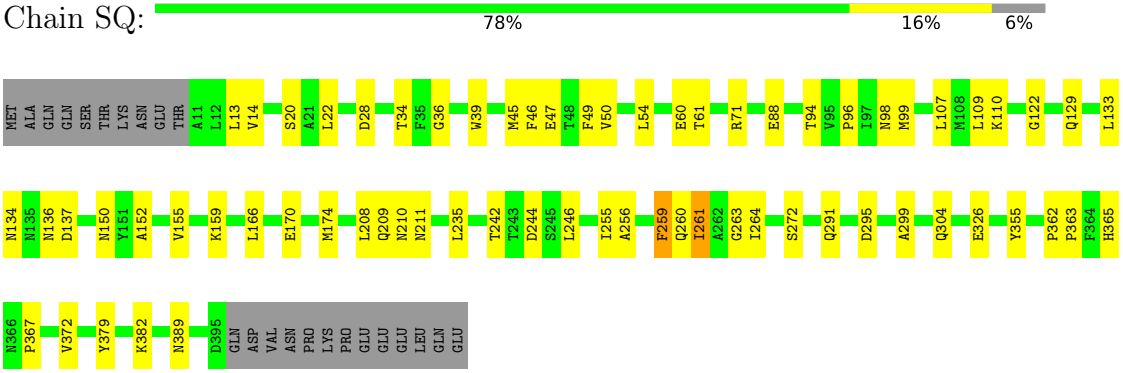
• Molecule 1: Major head protein

Chain RQ:



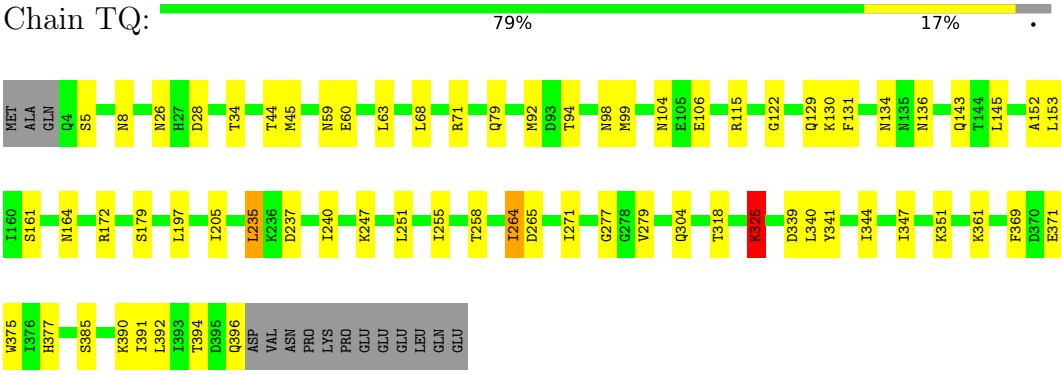
• Molecule 1: Major head protein

Chain SQ:



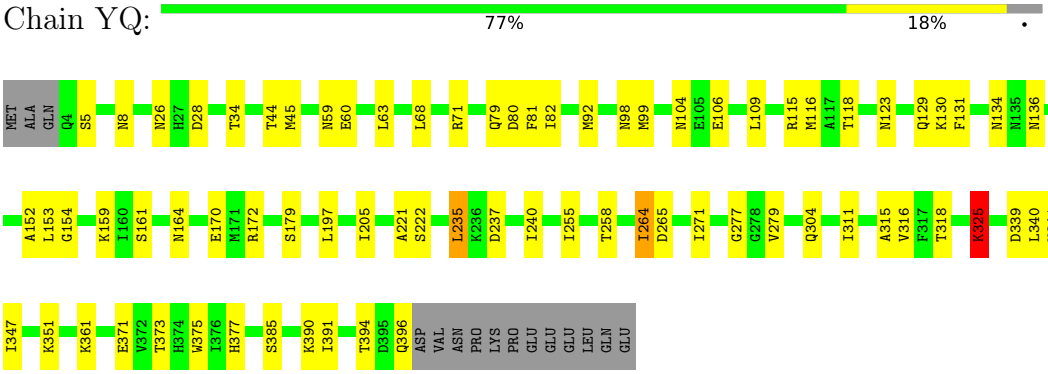
• Molecule 1: Major head protein

Chain TQ:



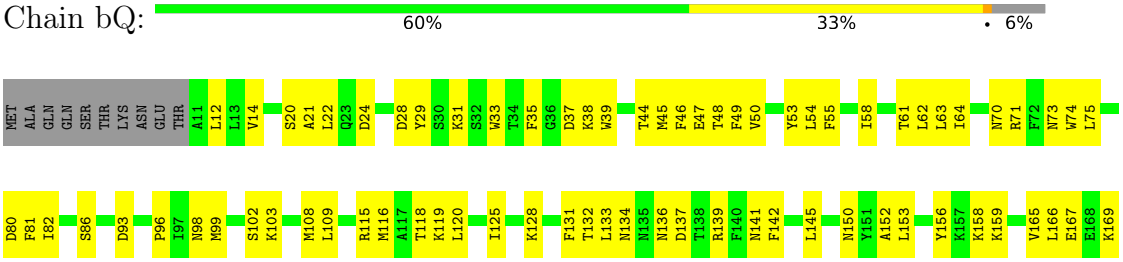
• Molecule 1: Major head protein

Chain YQ:



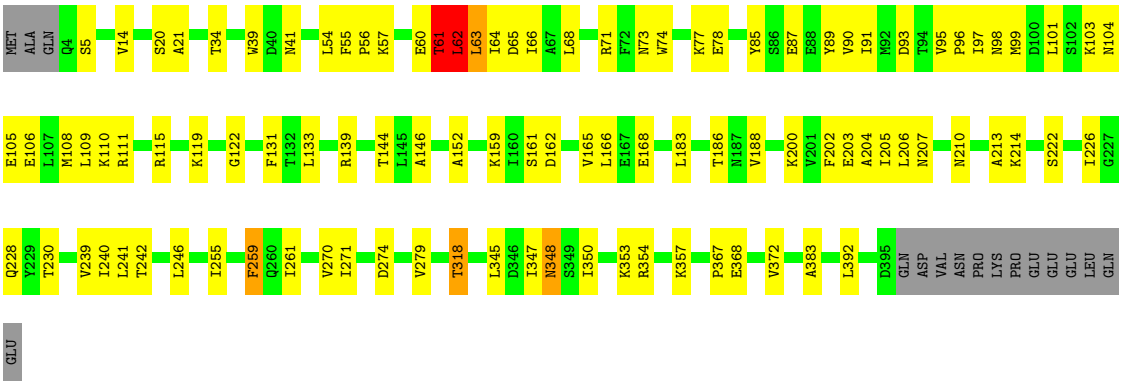
• Molecule 1: Major head protein

Chain bQ:



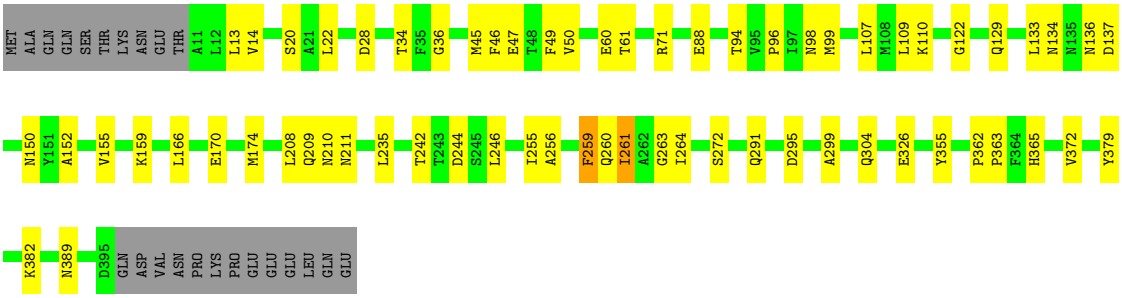
• Molecule 1: Major head protein

Chain cQ:



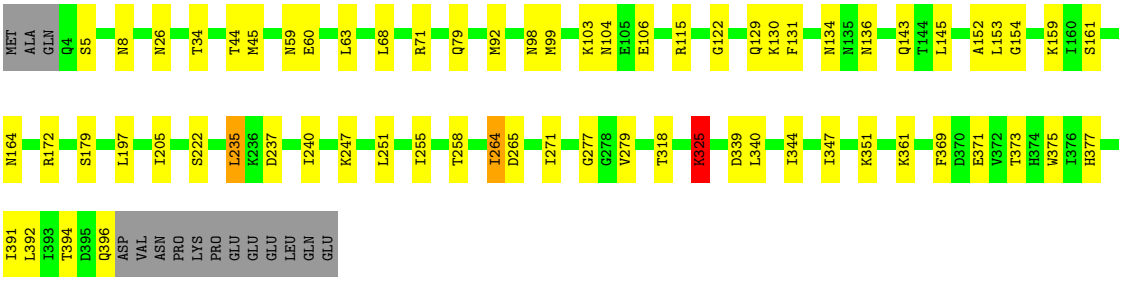
• Molecule 1: Major head protein

Chain dQ:



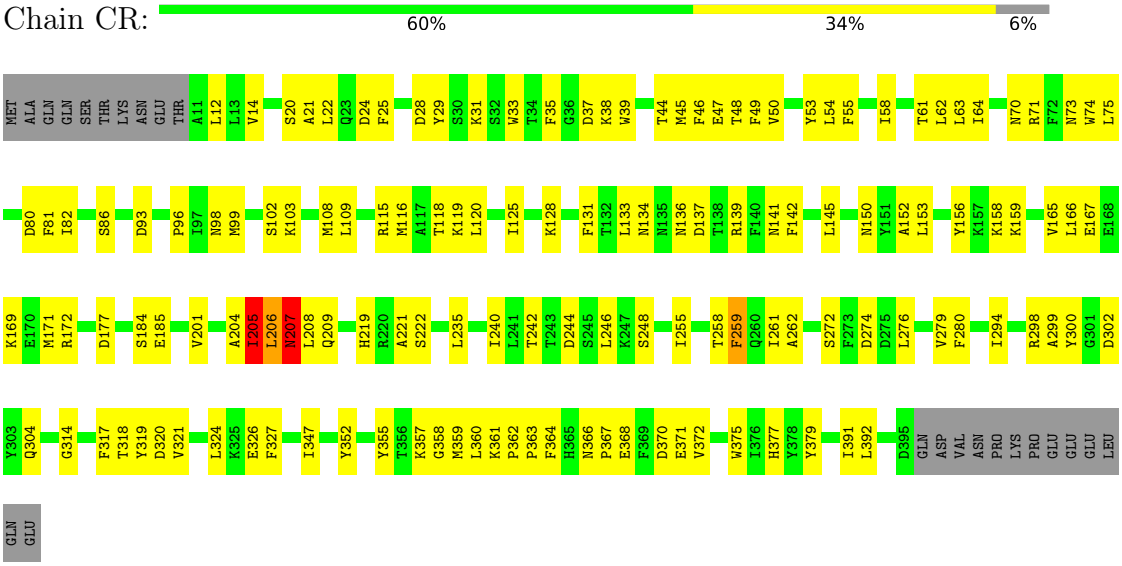
• Molecule 1: Major head protein

Chain eQ:



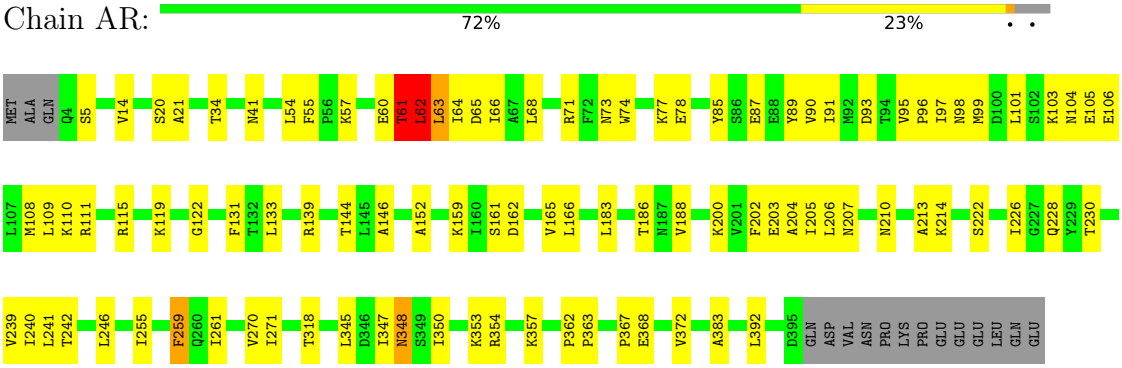
• Molecule 1: Major head protein

Chain CR:



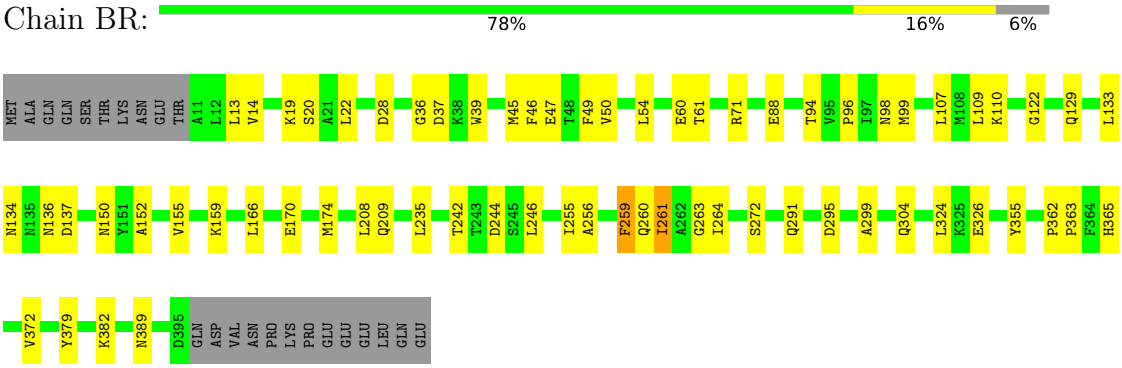
• Molecule 1: Major head protein

Chain AR:



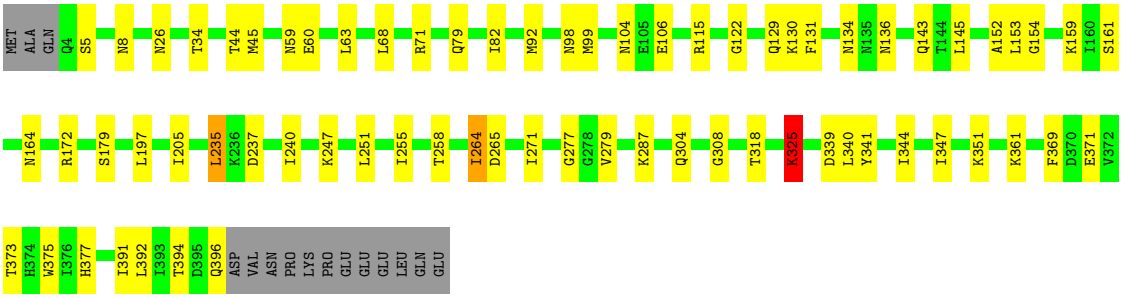
• Molecule 1: Major head protein

Chain BR:



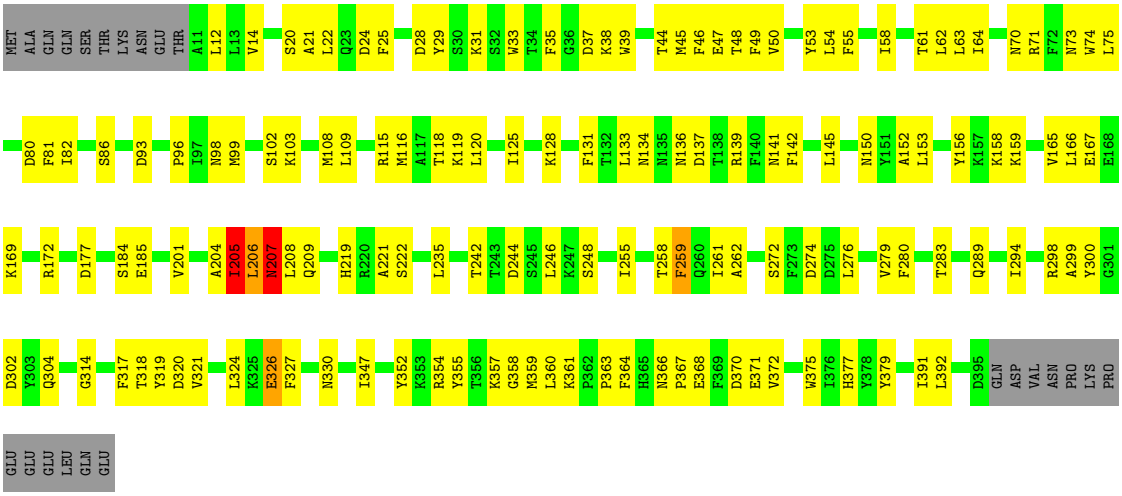
• Molecule 1: Major head protein

Chain DR:



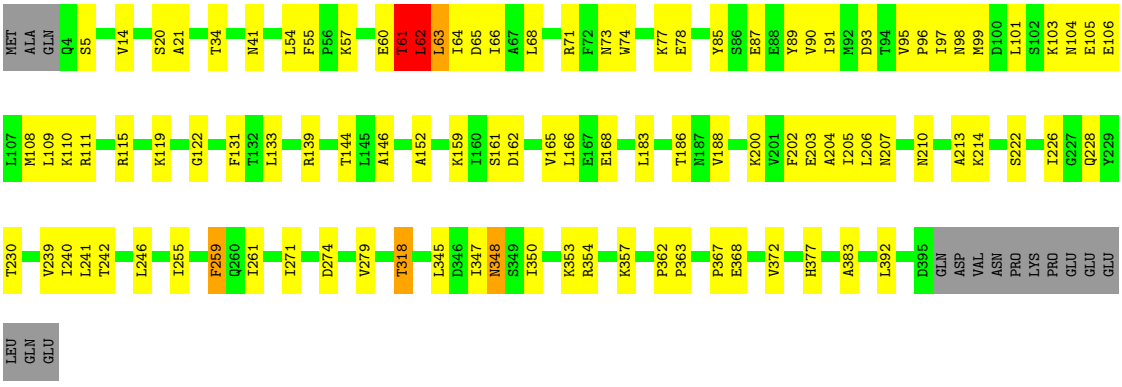
• Molecule 1: Major head protein

Chain IR:



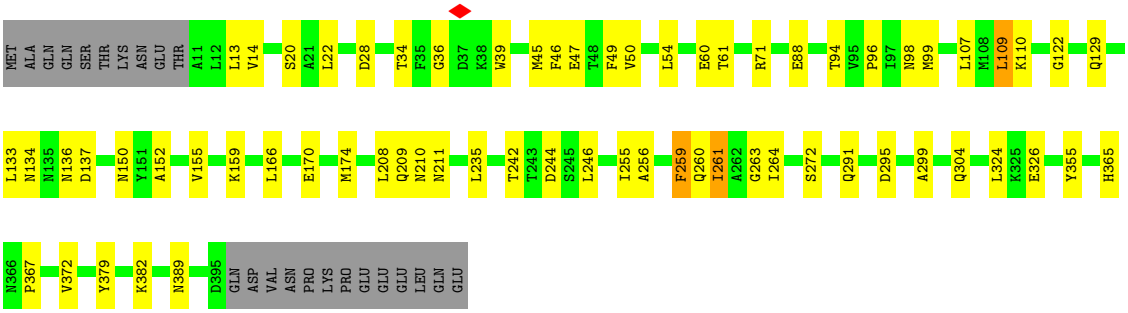
• Molecule 1: Major head protein

Chain JR:



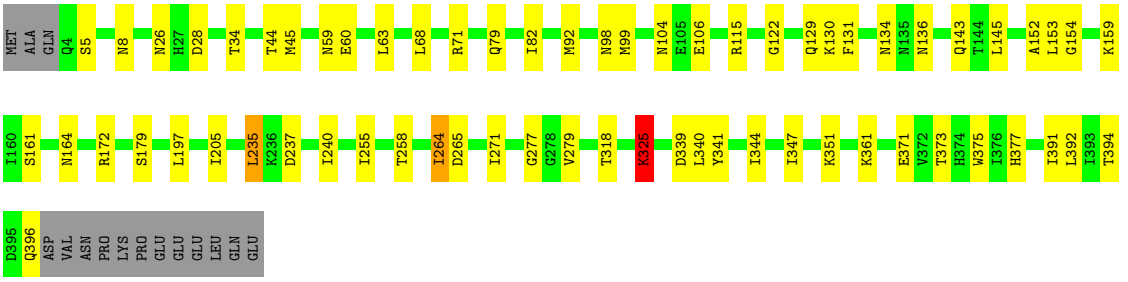
• Molecule 1: Major head protein

Chain KR:



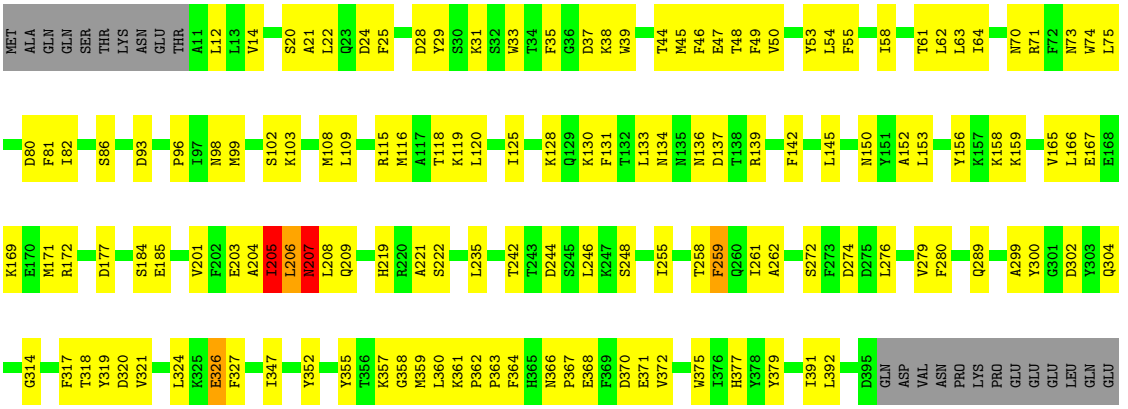
• Molecule 1: Major head protein

Chain LR:



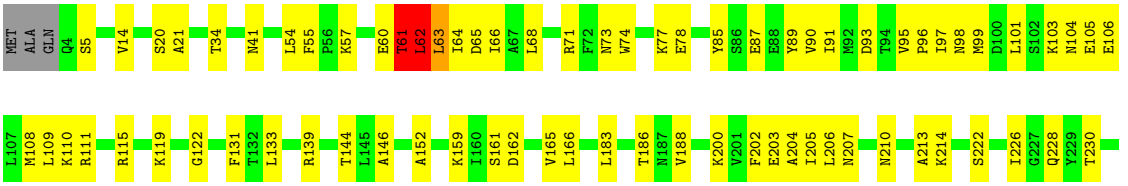
• Molecule 1: Major head protein

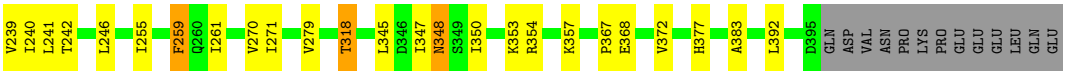
Chain QR:



• Molecule 1: Major head protein

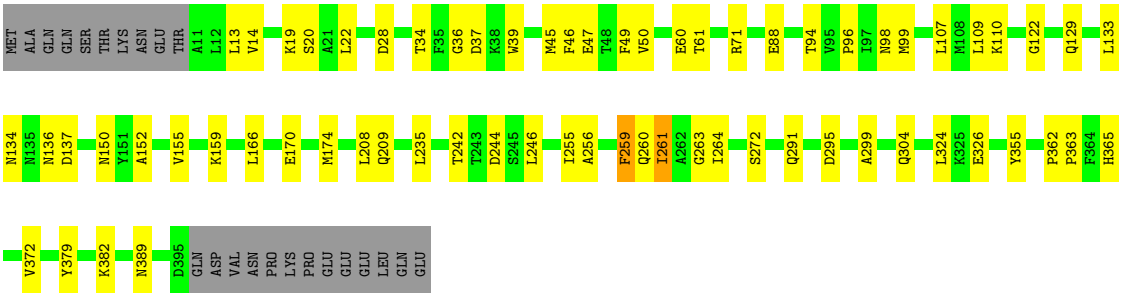
Chain RR:





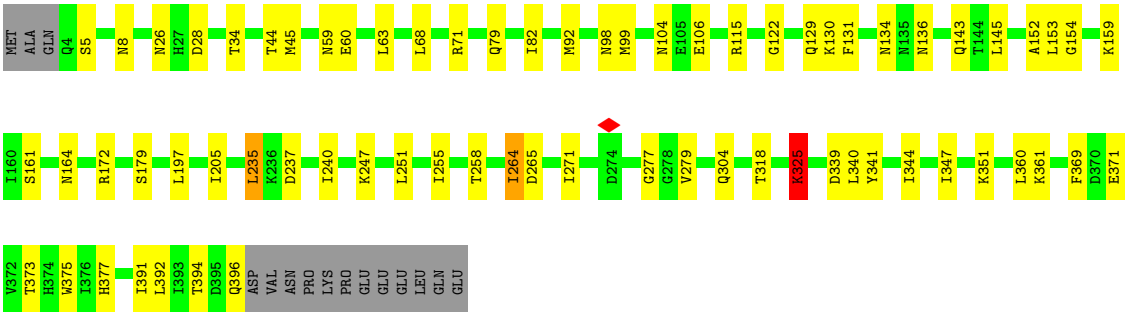
• Molecule 1: Major head protein

Chain SR:



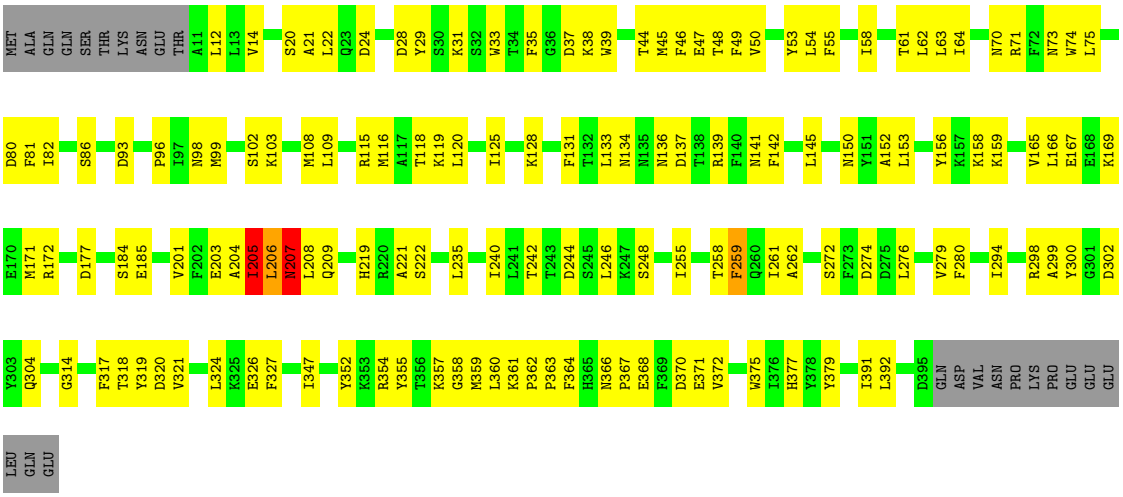
• Molecule 1: Major head protein

Chain TR:



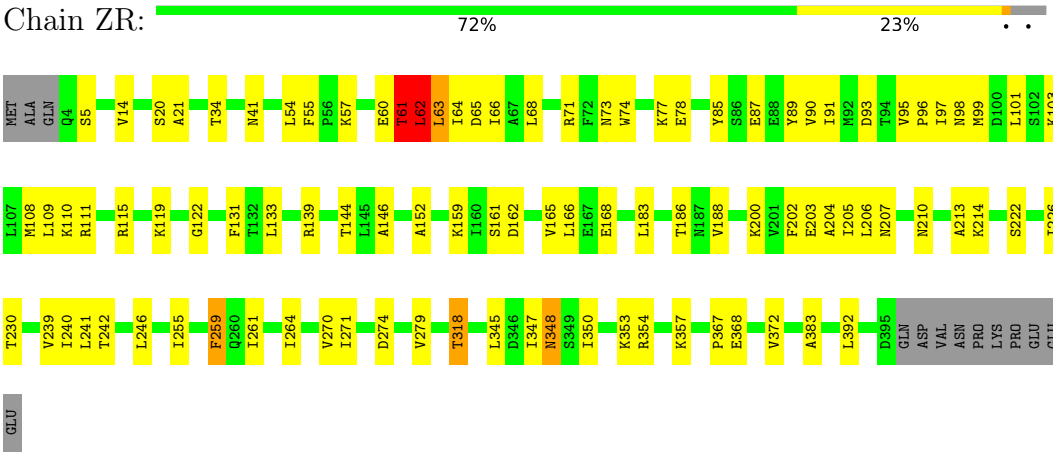
• Molecule 1: Major head protein

Chain YR:



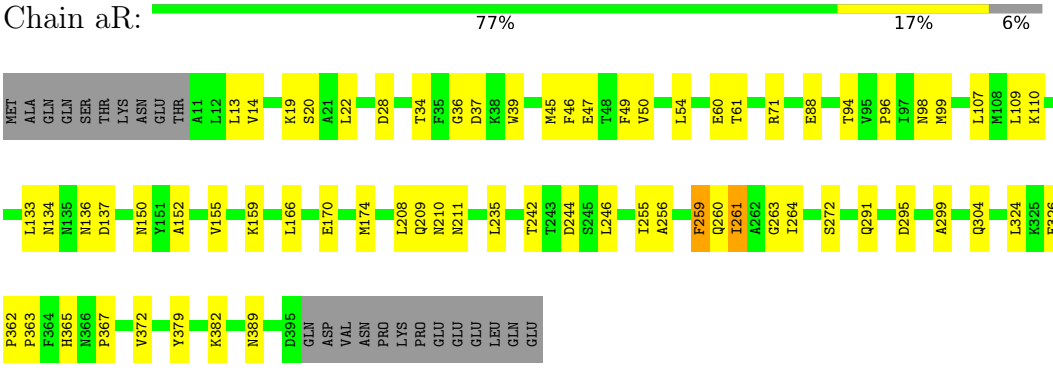
• Molecule 1: Major head protein

Chain ZR:



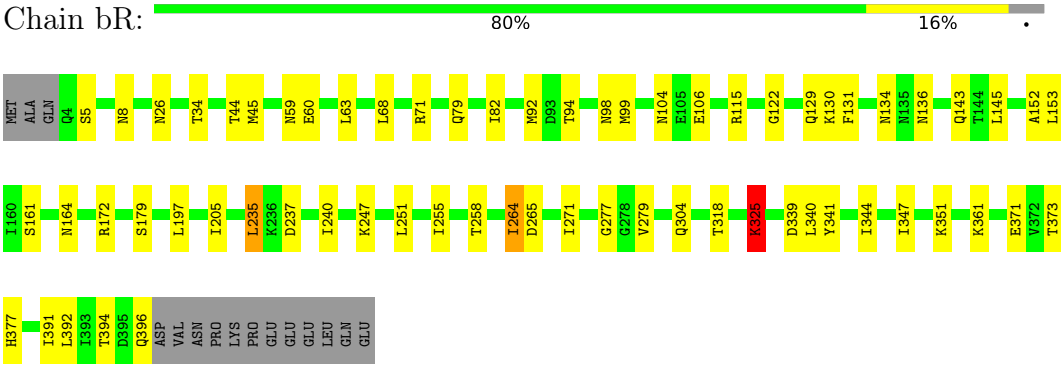
• Molecule 1: Major head protein

Chain aR:



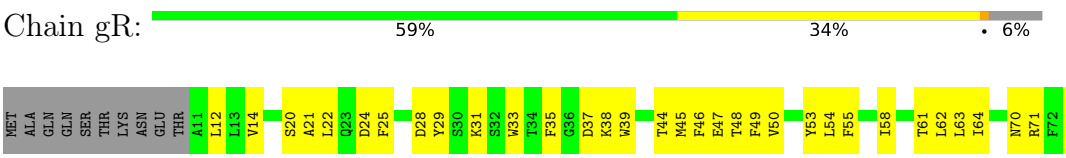
• Molecule 1: Major head protein

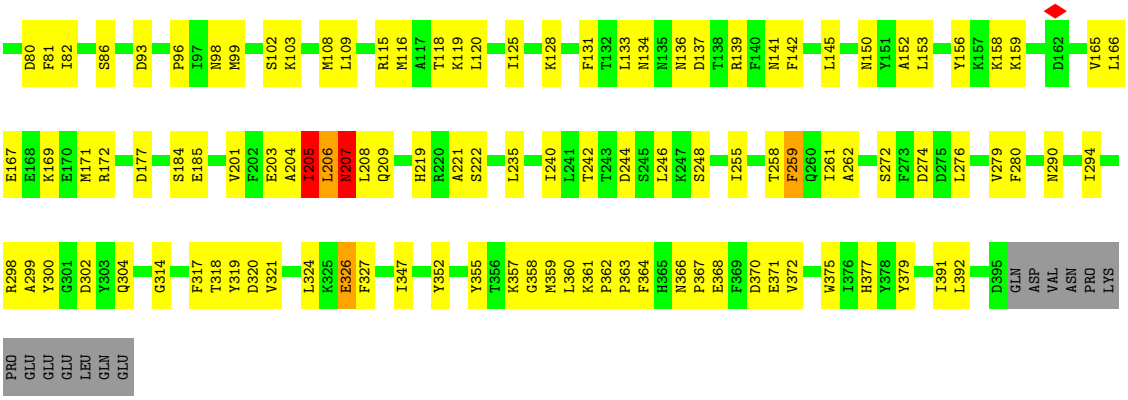
Chain bR:



• Molecule 1: Major head protein

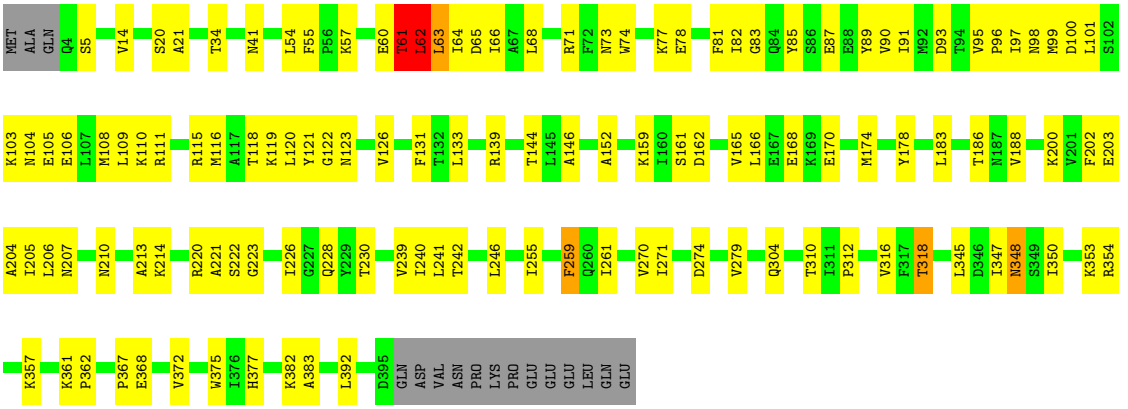
Chain gR:





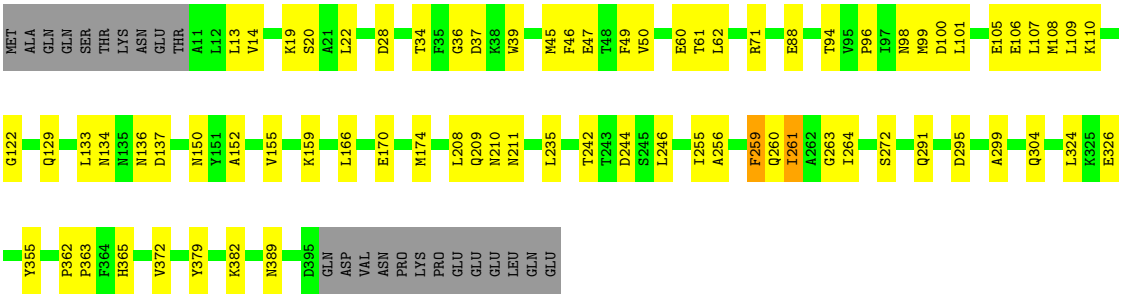
• Molecule 1: Major head protein

Chain hR:



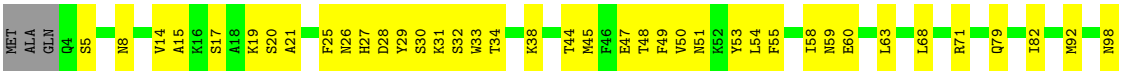
• Molecule 1: Major head protein

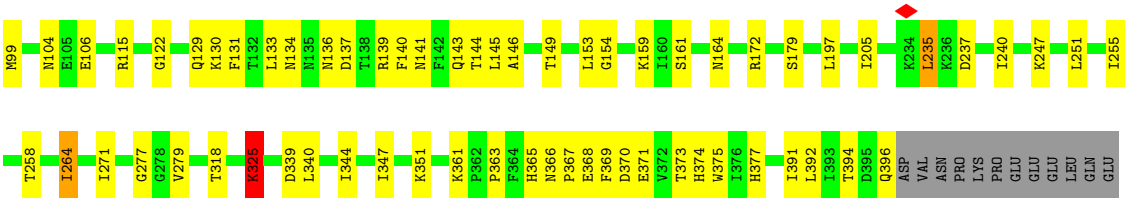
Chain iR:



• Molecule 1: Major head protein

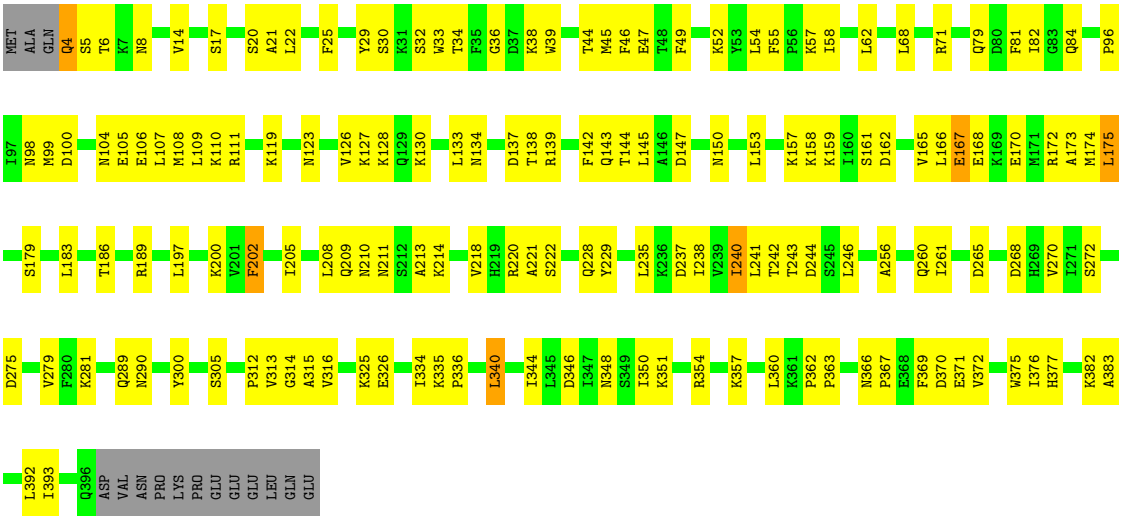
Chain jR:





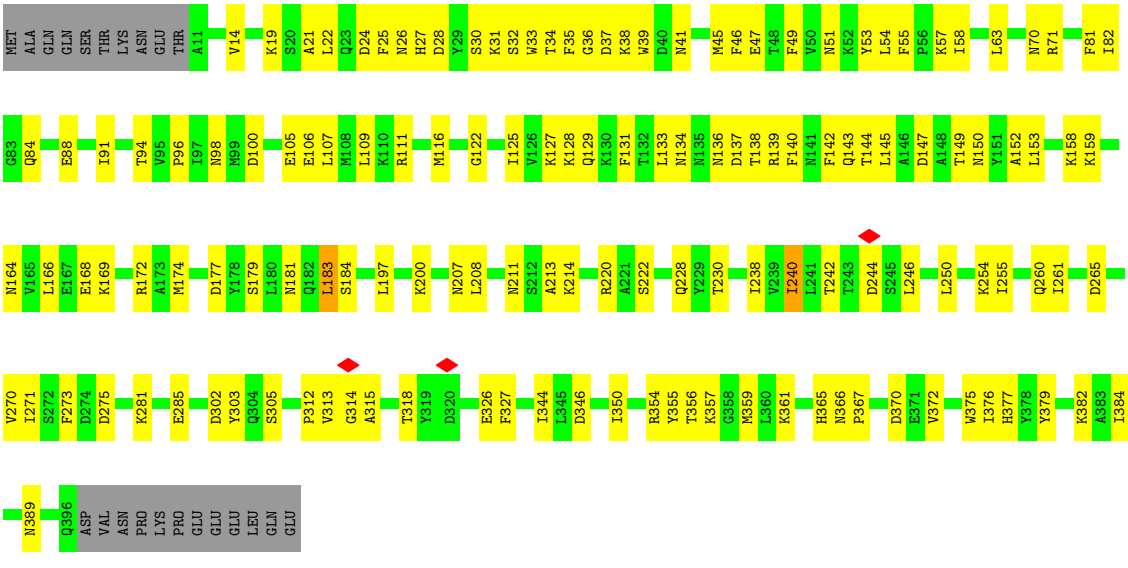
• Molecule 1: Major head protein

Chain AS:



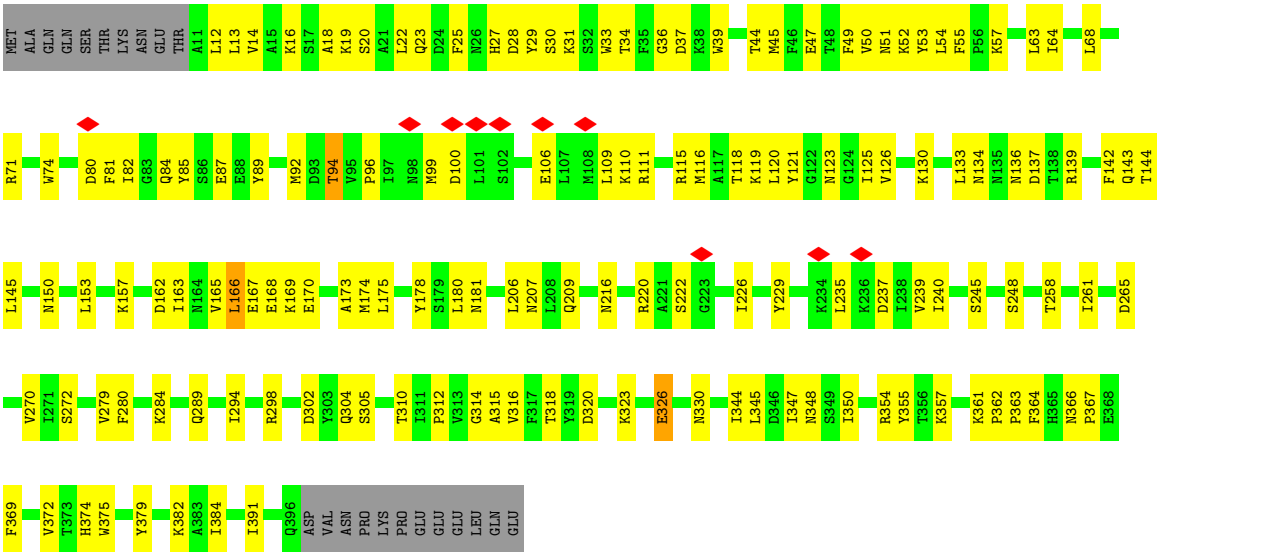
• Molecule 1: Major head protein

Chain BS:



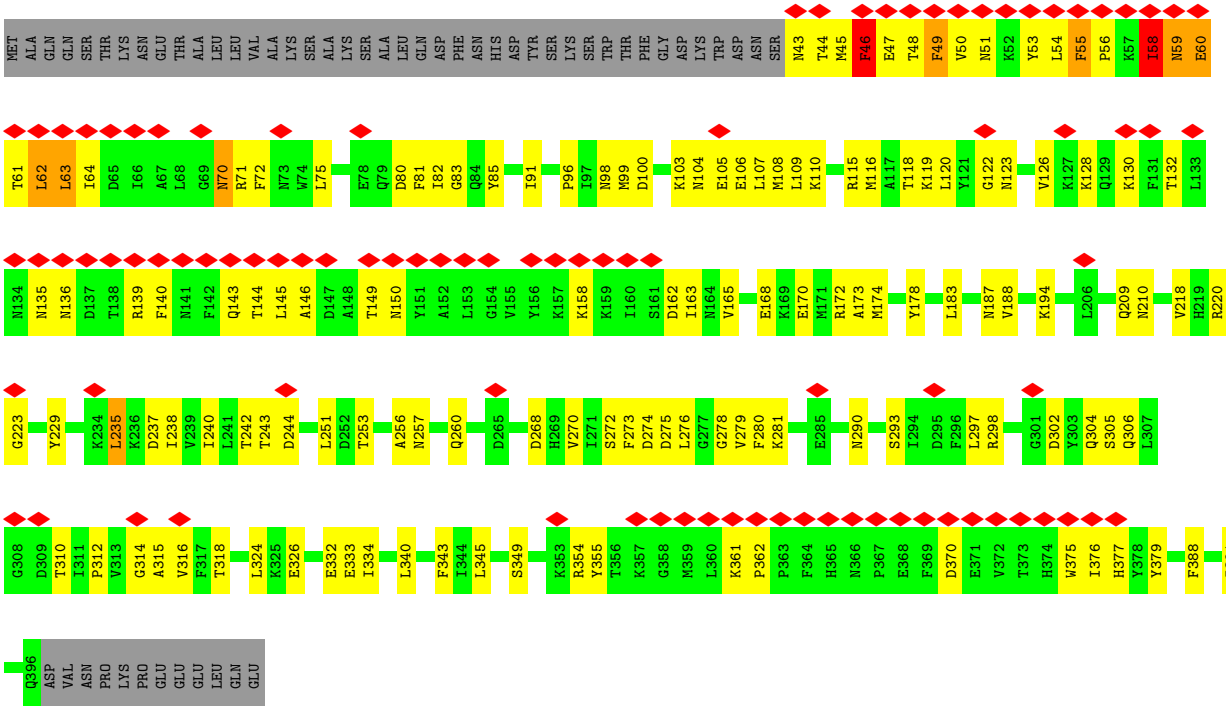
• Molecule 1: Major head protein

Chain CS:



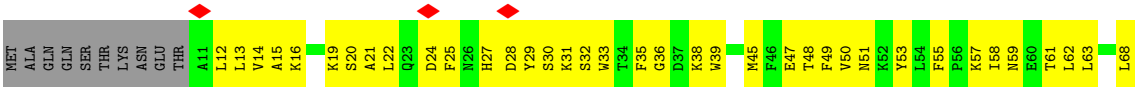
• Molecule 1: Major head protein

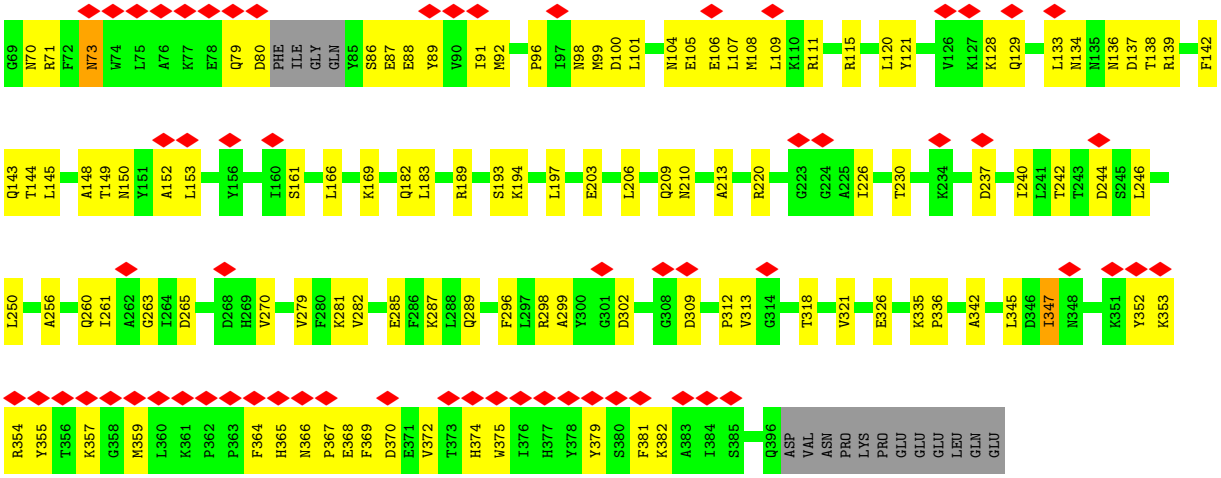
Chain IS:



• Molecule 1: Major head protein

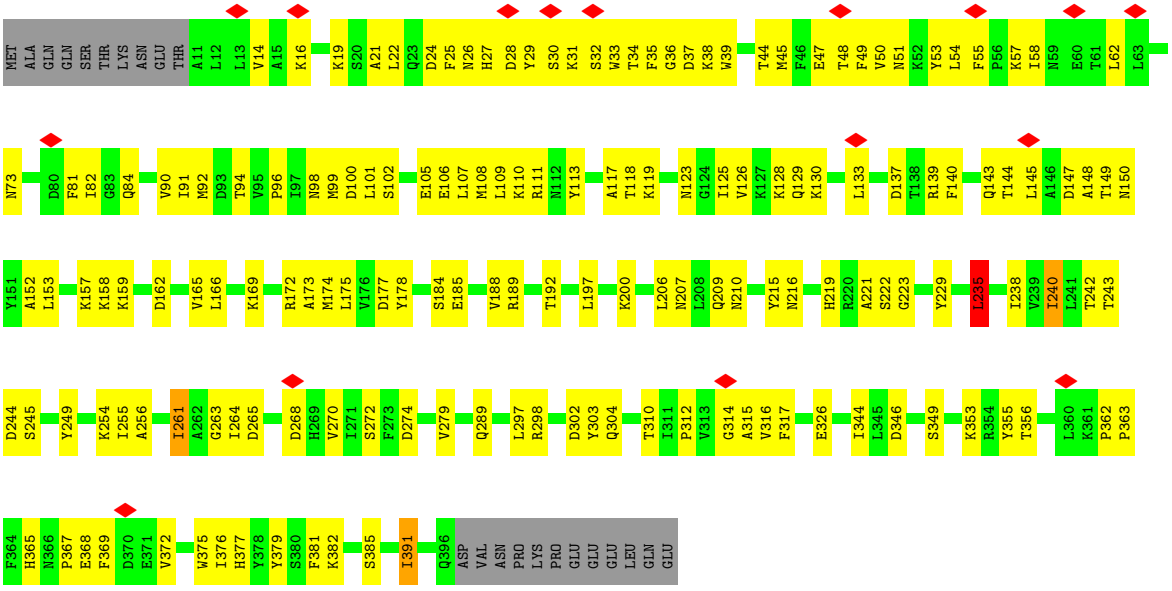
Chain JS:





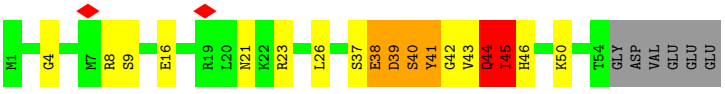
• Molecule 1: Major head protein

Chain KS:



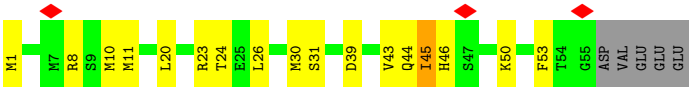
• Molecule 2: Arstotzka protein

Chain E1:



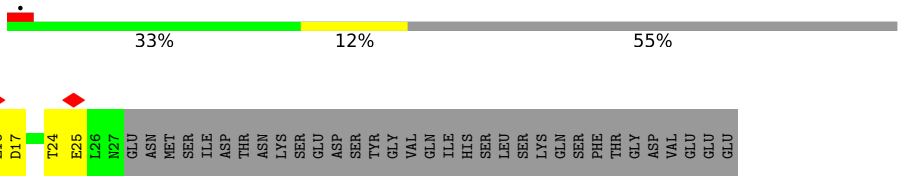
• Molecule 2: Arstotzka protein

Chain F1:



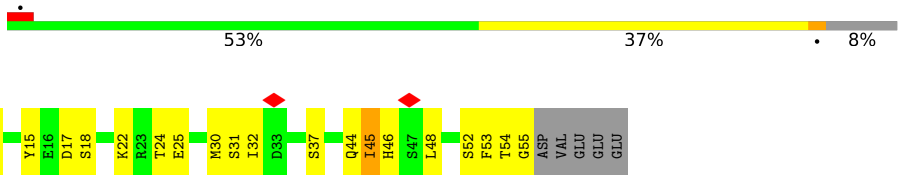
• Molecule 2: Arstotzka protein

Chain G1:



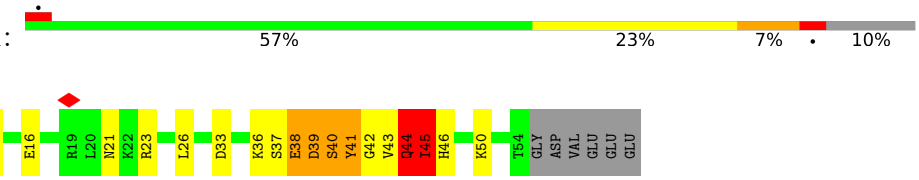
• Molecule 2: Arstotzka protein

Chain H1:



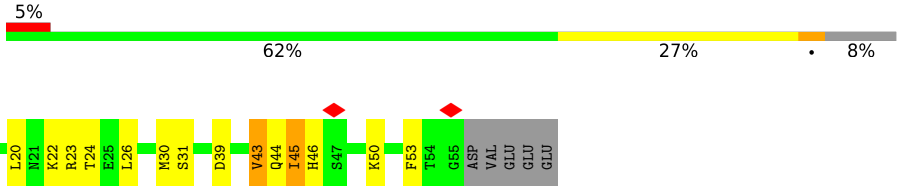
• Molecule 2: Arstotzka protein

Chain M1:



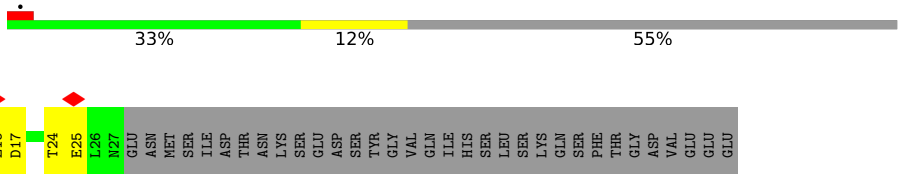
• Molecule 2: Arstotzka protein

Chain N1:



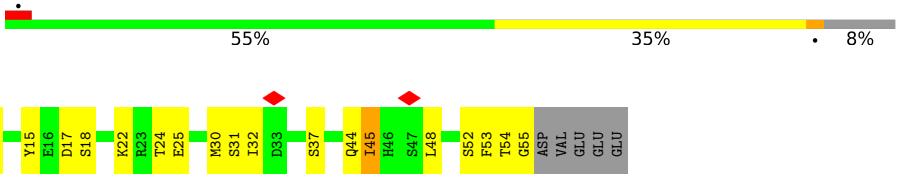
• Molecule 2: Arstotzka protein

Chain O1:



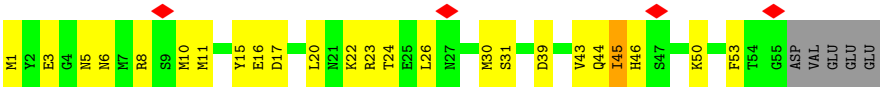
• Molecule 2: Arstotzka protein

Chain P1:

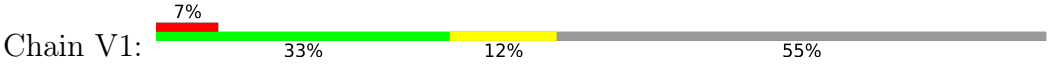


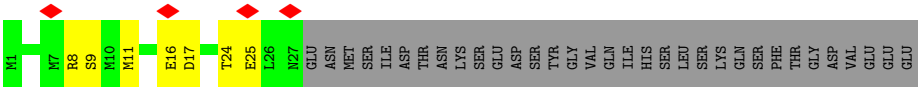
• Molecule 2: Arstotzka protein

Chain U1:

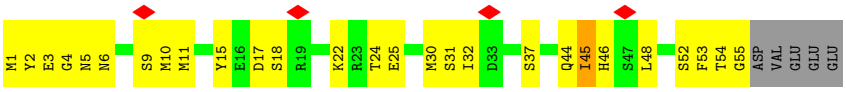


• Molecule 2: Arstotzka protein

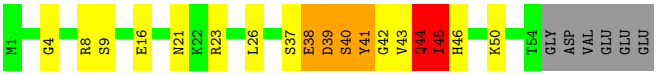




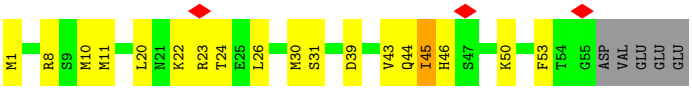
• Molecule 2: Arstotzka protein



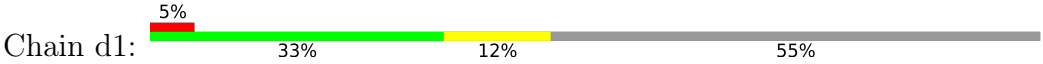
• Molecule 2: Arstotzka protein

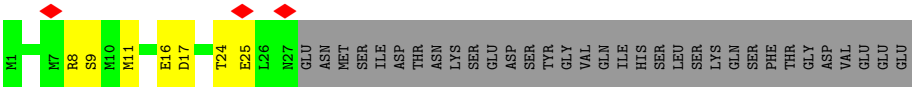


• Molecule 2: Arstotzka protein

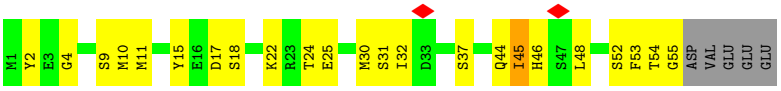


• Molecule 2: Arstotzka protein





• Molecule 2: Arstotzka protein

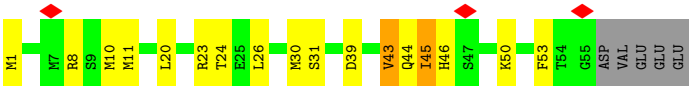


• Molecule 2: Arstotzka protein

Chain j1:

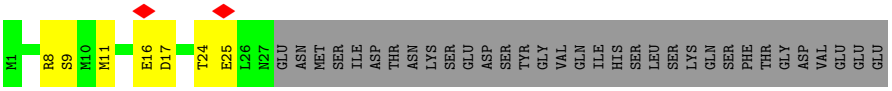
• Molecule 2: Arstotzka protein

Chain k1:



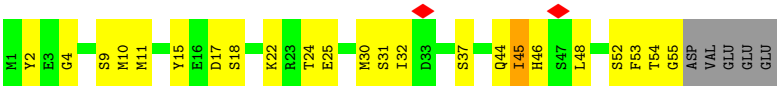
• Molecule 2: Arstotzka protein

Chain l1:



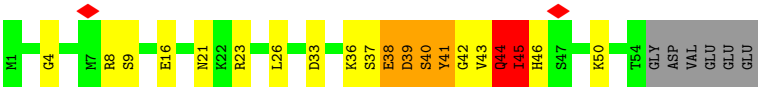
• Molecule 2: Arstotzka protein

Chain m1:



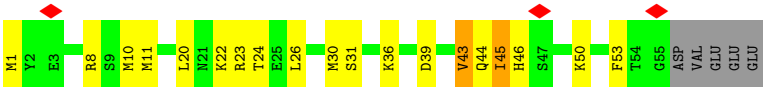
• Molecule 2: Arstotzka protein

Chain E3:



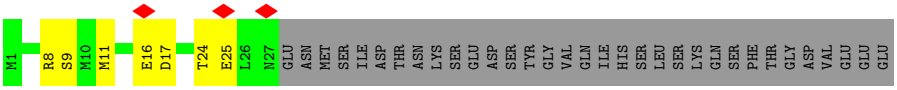
• Molecule 2: Arstotzka protein

Chain F3:



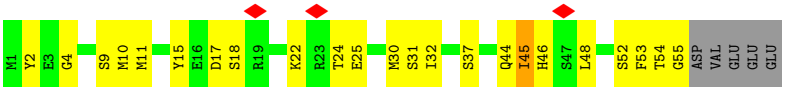
• Molecule 2: Arstotzka protein

Chain G3:



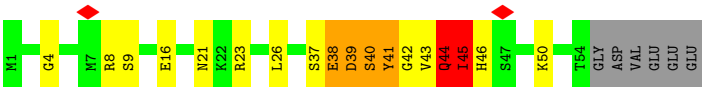
• Molecule 2: Arstotzka protein

Chain H3:



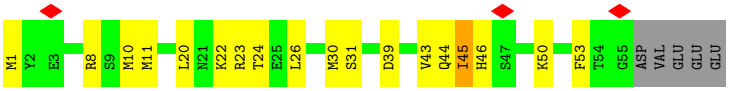
• Molecule 2: Arstotzka protein

Chain M3:



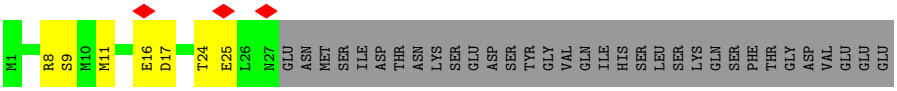
• Molecule 2: Arstotzka protein

Chain N3:



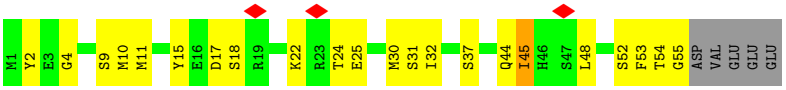
• Molecule 2: Arstotzka protein

Chain O3:



• Molecule 2: Arstotzka protein

Chain P3:

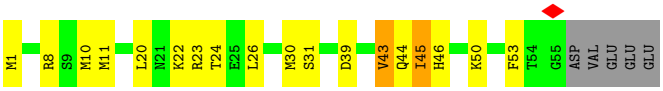


• Molecule 2: Arstotzka protein

Chain U3:

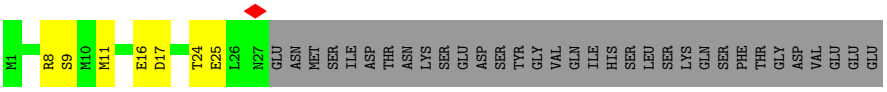
• Molecule 2: Arstotzka protein

Chain V3:



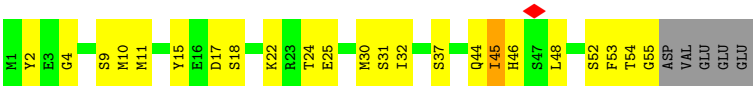
• Molecule 2: Arstotzka protein

Chain W3:



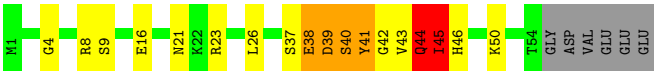
• Molecule 2: Arstotzka protein

Chain X3:



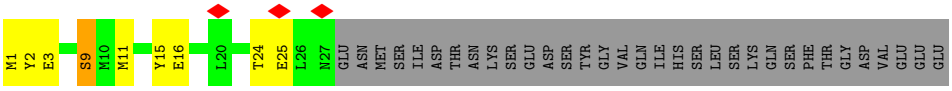
• Molecule 2: Arstotzka protein

Chain Z3:



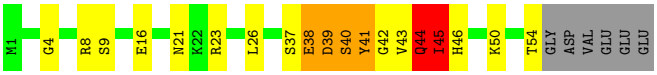
• Molecule 2: Arstotzka protein

Chain a3:



• Molecule 2: Arstotzka protein

Chain c3:

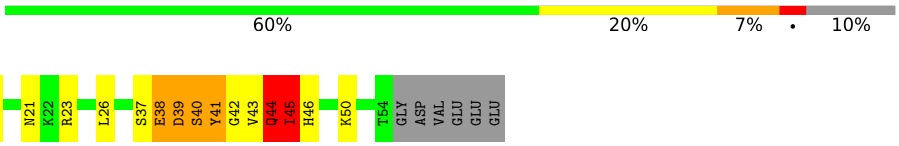


• Molecule 2: Arstotzka protein

Chain d3:

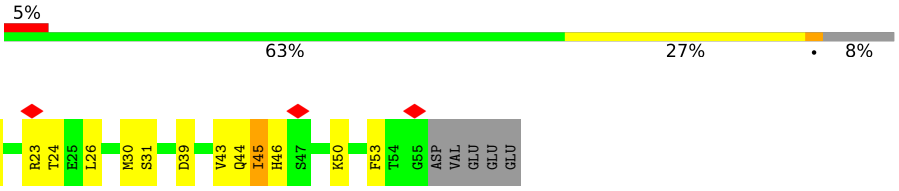
• Molecule 2: Arstotzka protein

Chain E4:



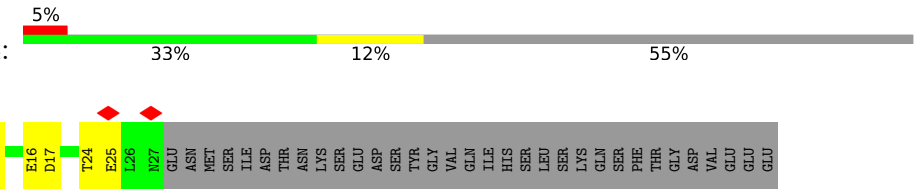
• Molecule 2: Arstotzka protein

Chain F4:



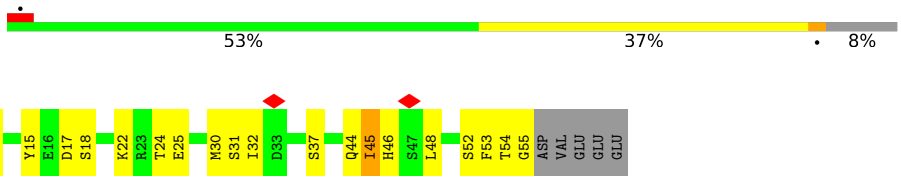
• Molecule 2: Arstotzka protein

Chain G4:



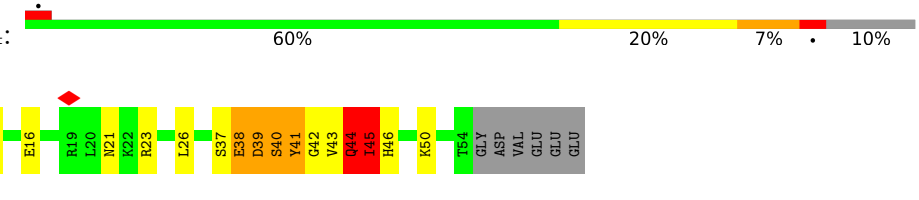
• Molecule 2: Arstotzka protein

Chain H4:



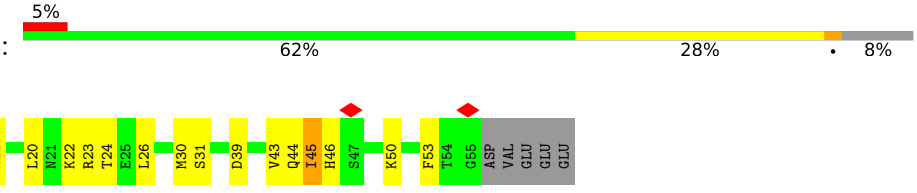
• Molecule 2: Arstotzka protein

Chain M4:



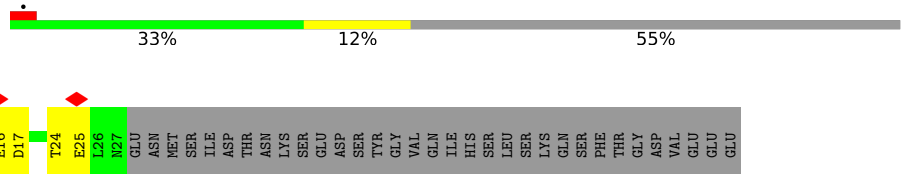
• Molecule 2: Arstotzka protein

Chain N4:



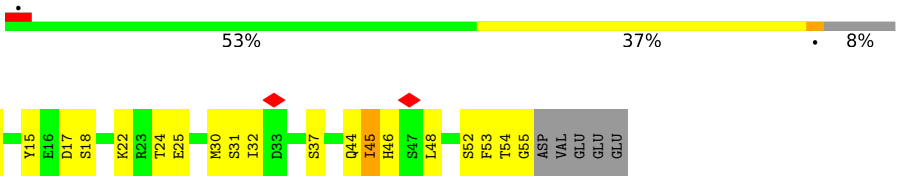
• Molecule 2: Arstotzka protein

Chain O4:



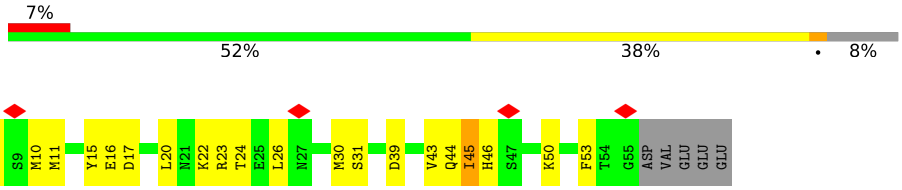
• Molecule 2: Arstotzka protein

Chain P4:



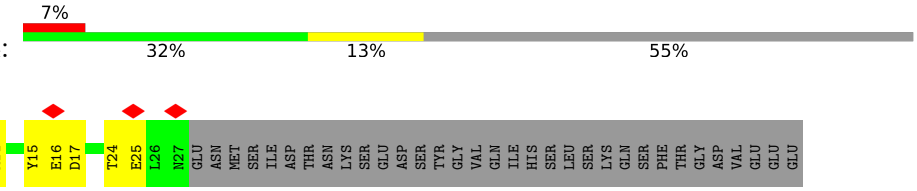
• Molecule 2: Arstotzka protein

Chain U4:



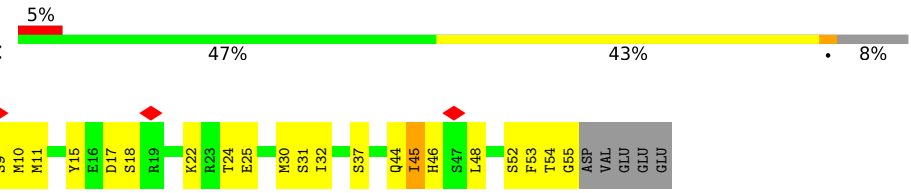
• Molecule 2: Arstotzka protein

Chain V4:



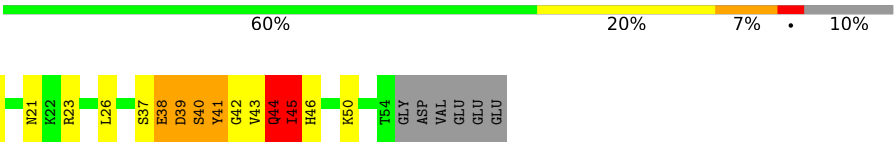
• Molecule 2: Arstotzka protein

Chain W4:



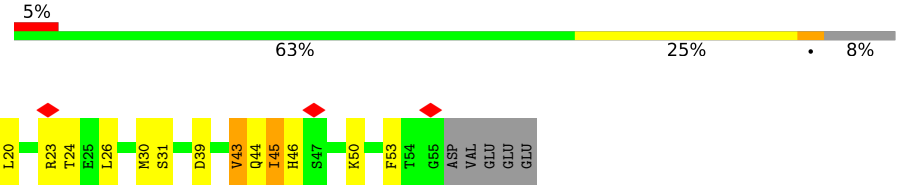
• Molecule 2: Arstotzka protein

Chain b4:



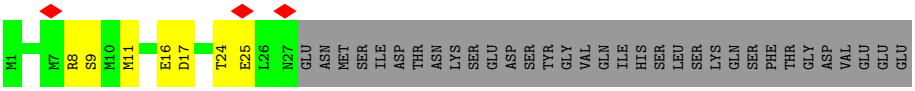
• Molecule 2: Arstotzka protein

Chain c4:



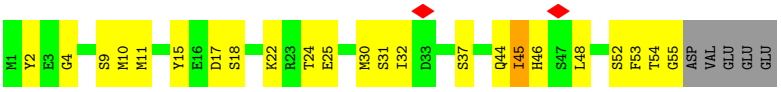
• Molecule 2: Arstotzka protein

Chain d4:



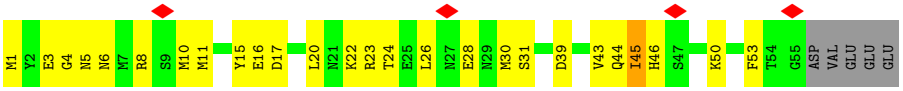
• Molecule 2: Arstotzka protein

Chain e4:



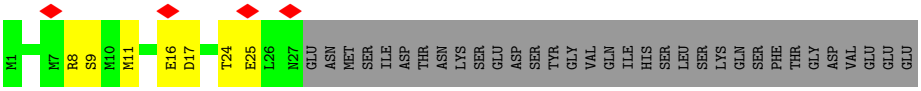
• Molecule 2: Arstotzka protein

Chain j4:



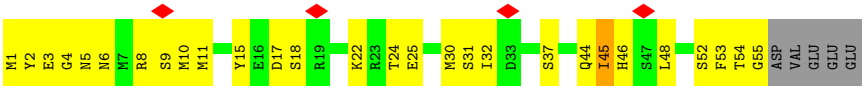
• Molecule 2: Arstotzka protein

Chain k4:



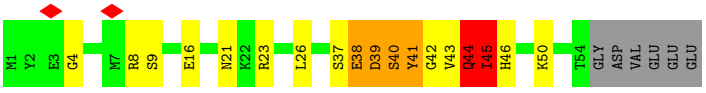
• Molecule 2: Arstotzka protein

Chain l4:



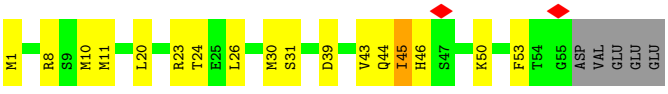
• Molecule 2: Arstotzka protein

Chain E6:



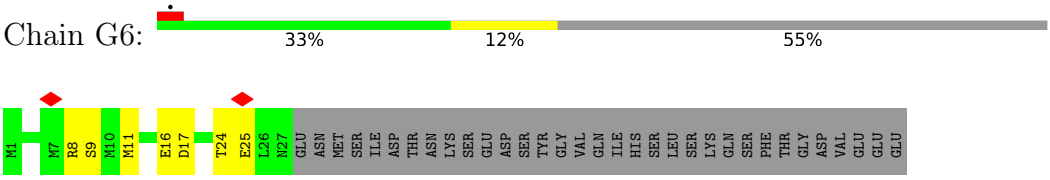
• Molecule 2: Arstotzka protein

Chain F6:



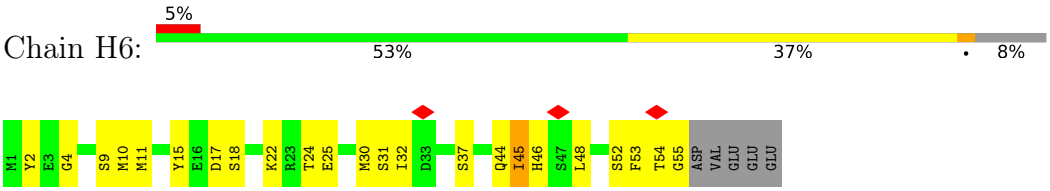
• Molecule 2: Arstotzka protein

Chain G6:



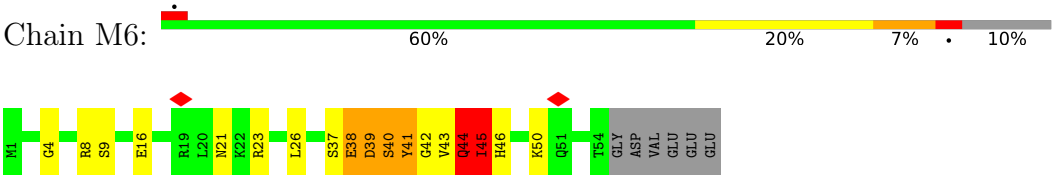
• Molecule 2: Arstotzka protein

Chain H6:



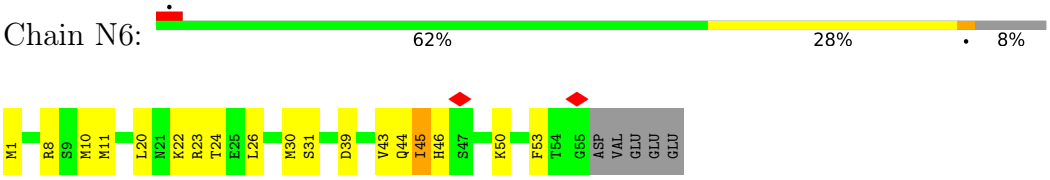
• Molecule 2: Arstotzka protein

Chain M6:



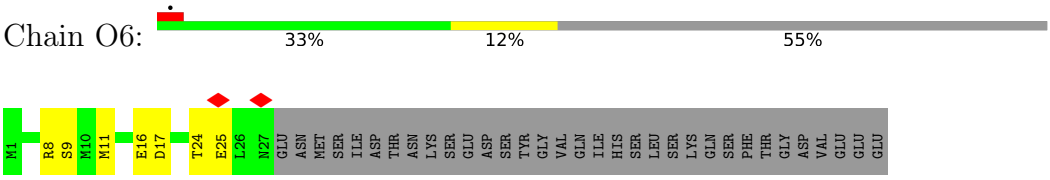
• Molecule 2: Arstotzka protein

Chain N6:



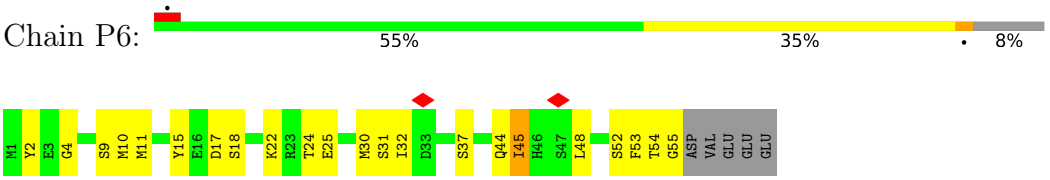
• Molecule 2: Arstotzka protein

Chain O6:



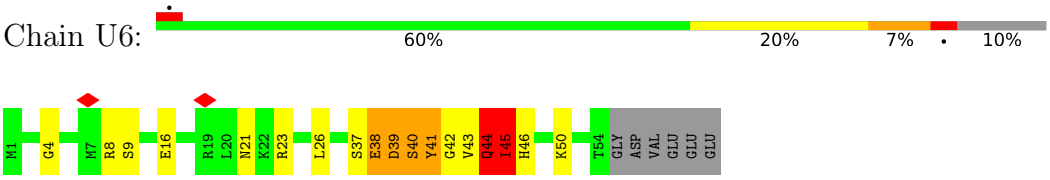
• Molecule 2: Arstotzka protein

Chain P6:



• Molecule 2: Arstotzka protein

Chain U6:

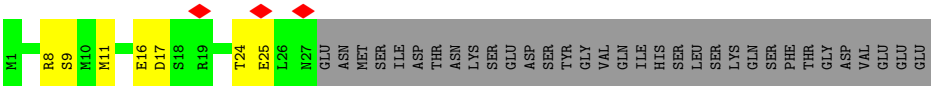


• Molecule 2: Arstotzka protein

Chain V6:

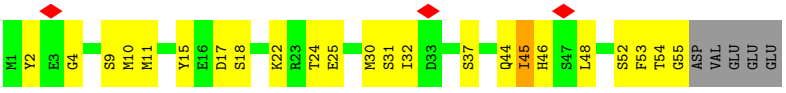
• Molecule 2: Arstotzka protein

Chain W6:



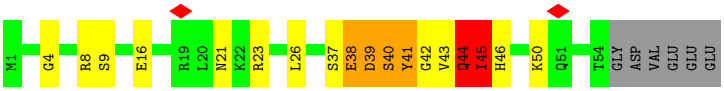
• Molecule 2: Arstotzka protein

Chain X6:



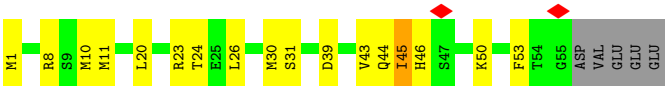
• Molecule 2: Arstotzka protein

Chain c6:



• Molecule 2: Arstotzka protein

Chain d6:

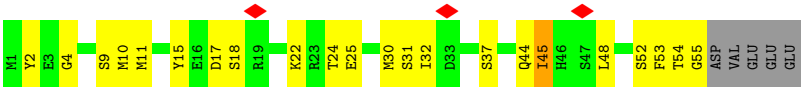


• Molecule 2: Arstotzka protein

Chain e6:

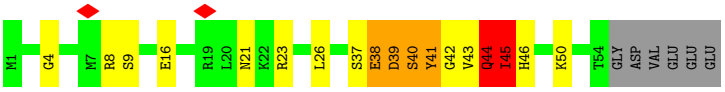
• Molecule 2: Arstotzka protein

Chain f6:



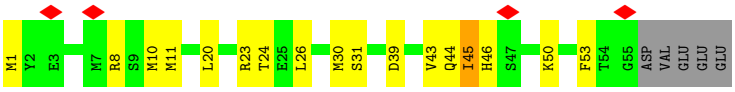
• Molecule 2: Arstotzka protein

Chain k6:



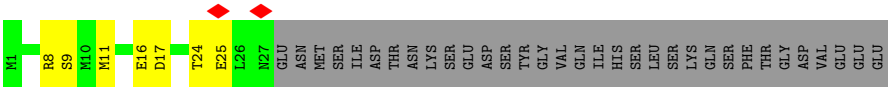
• Molecule 2: Arstotzka protein

Chain l6:



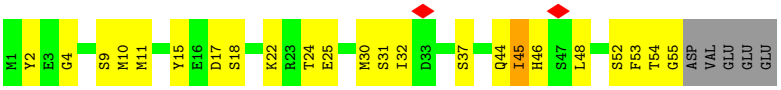
• Molecule 2: Arstotzka protein

Chain m6:



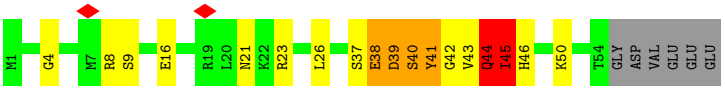
• Molecule 2: Arstotzka protein

Chain n6:



• Molecule 2: Arstotzka protein

Chain E7:

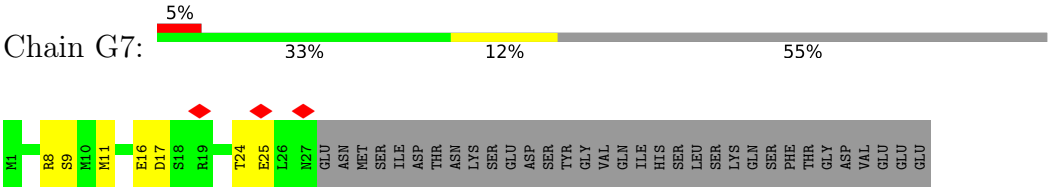


• Molecule 2: Arstotzka protein

Chain F7:

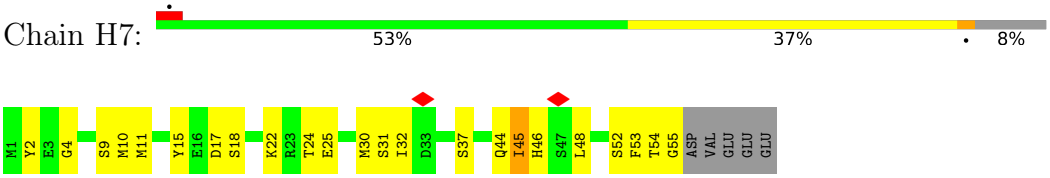
• Molecule 2: Arstotzka protein

Chain G7:



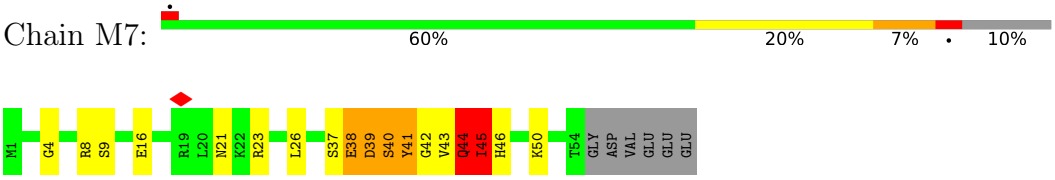
• Molecule 2: Arstotzka protein

Chain H7:



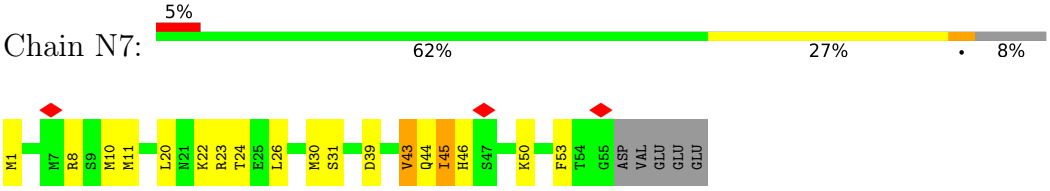
• Molecule 2: Arstotzka protein

Chain M7:



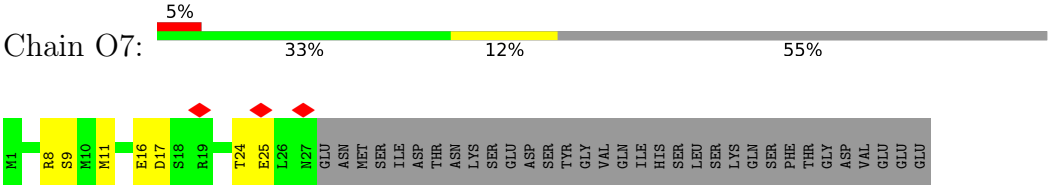
• Molecule 2: Arstotzka protein

Chain N7:



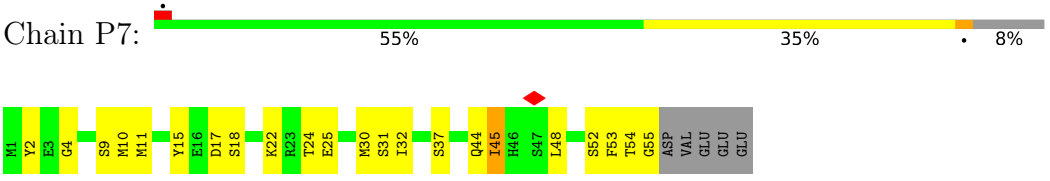
• Molecule 2: Arstotzka protein

Chain O7:



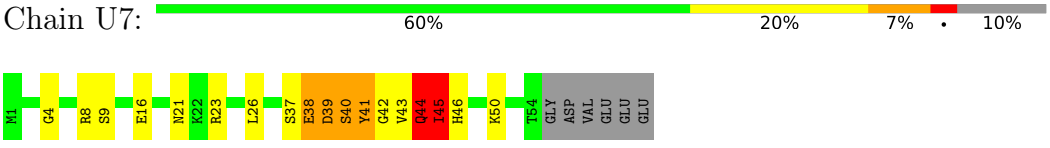
• Molecule 2: Arstotzka protein

Chain P7:



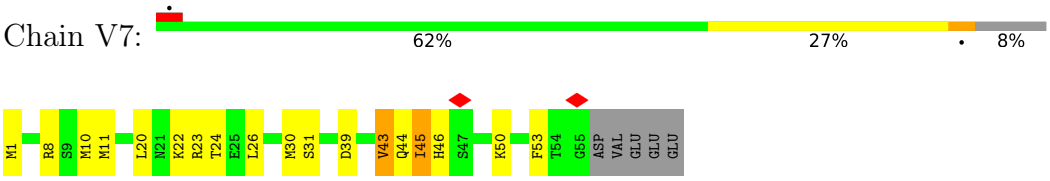
• Molecule 2: Arstotzka protein

Chain U7:



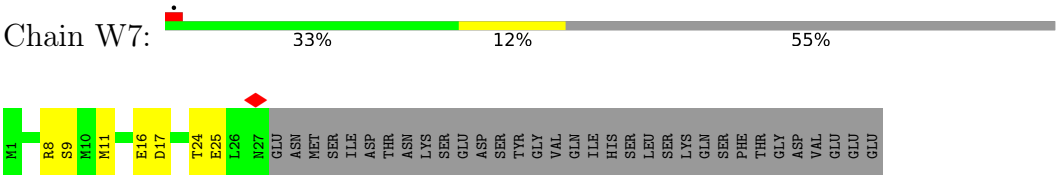
• Molecule 2: Arstotzka protein

Chain V7:



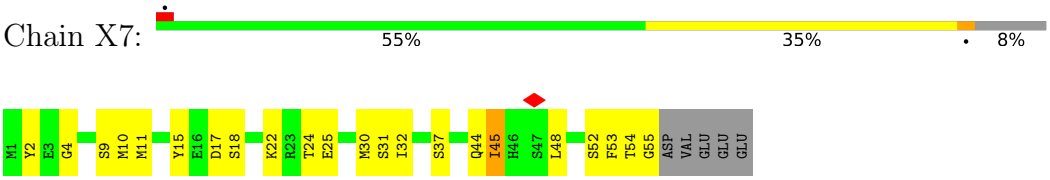
• Molecule 2: Arstotzka protein

Chain W7:



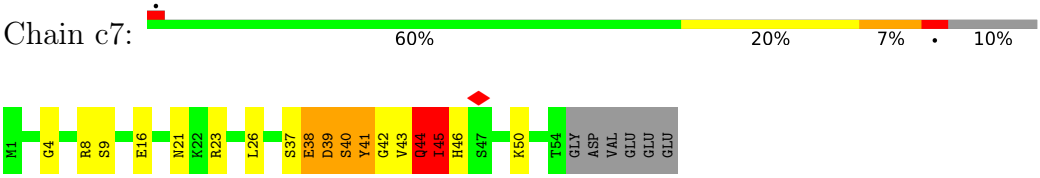
• Molecule 2: Arstotzka protein

Chain X7:



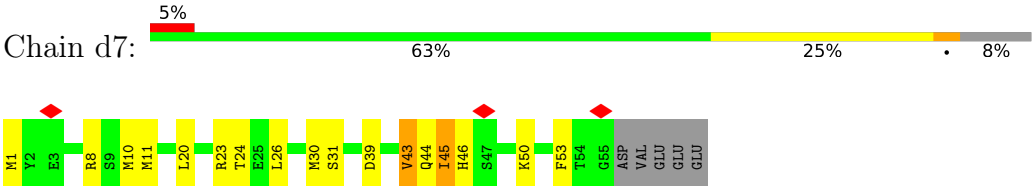
• Molecule 2: Arstotzka protein

Chain c7:



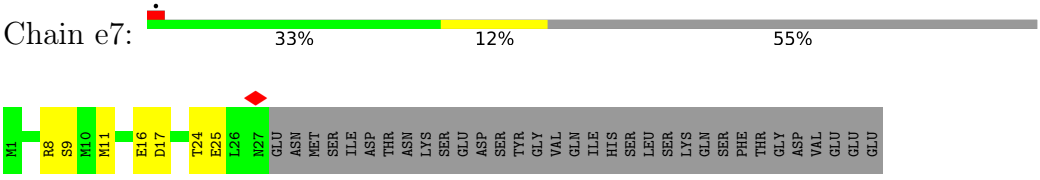
• Molecule 2: Arstotzka protein

Chain d7:



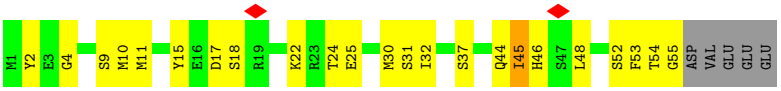
• Molecule 2: Arstotzka protein

Chain e7:



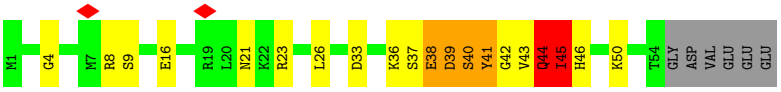
• Molecule 2: Arstotzka protein

Chain f7:



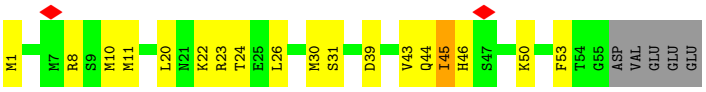
• Molecule 2: Arstotzka protein

Chain k7:



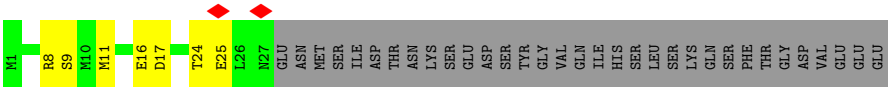
• Molecule 2: Arstotzka protein

Chain l7:



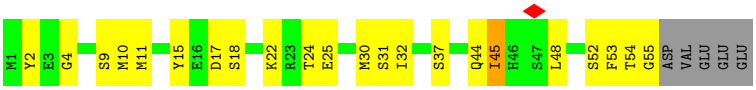
• Molecule 2: Arstotzka protein

Chain m7:



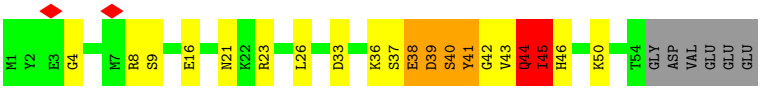
• Molecule 2: Arstotzka protein

Chain n7:



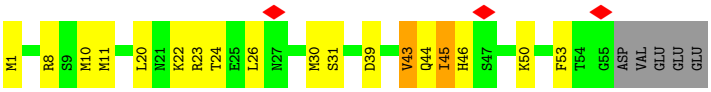
• Molecule 2: Arstotzka protein

Chain E8:



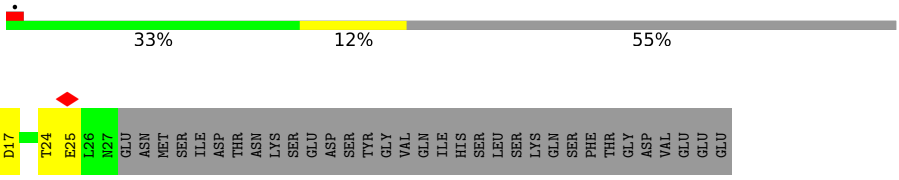
• Molecule 2: Arstotzka protein

Chain F8:



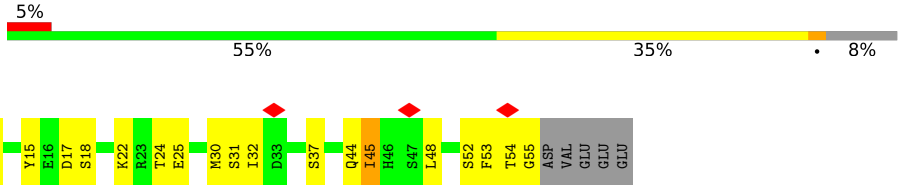
• Molecule 2: Arstotzka protein

Chain G8:



• Molecule 2: Arstotzka protein

Chain H8:



• Molecule 2: Arstotzka protein

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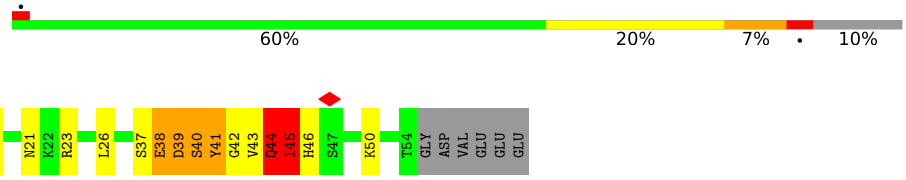

• Molecule 2: Arstotzka protein

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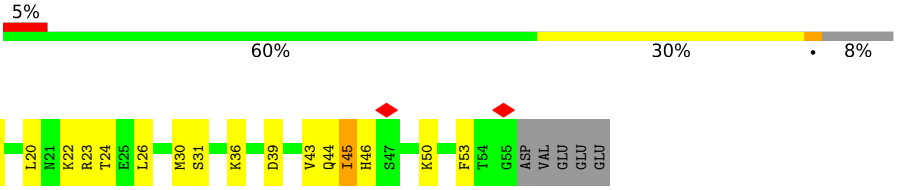
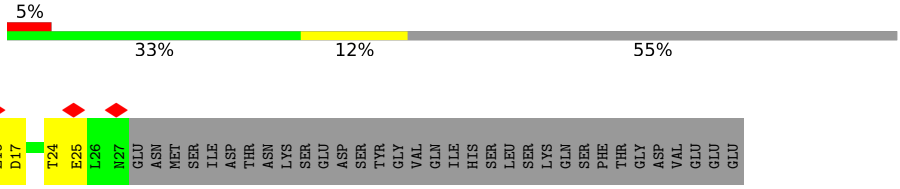


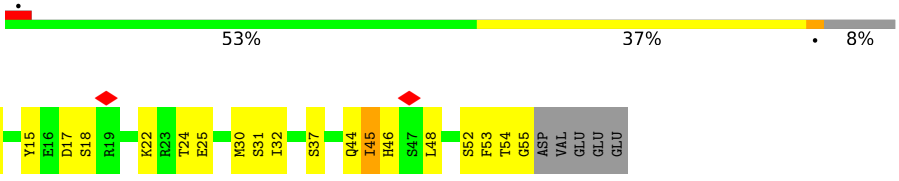
• Molecule 2: Arstotzka protein

Chain O8:



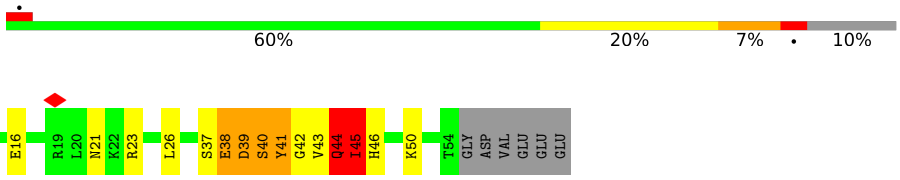
• Molecule 2: Arstotzka protein

Chain P8:



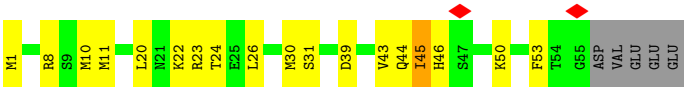
• Molecule 2: Arstotzka protein

Chain U8:



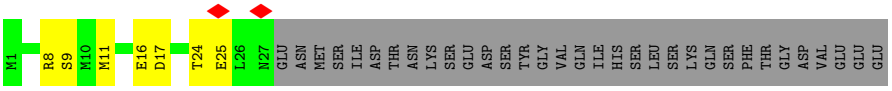
• Molecule 2: Arstotzka protein

Chain V8:



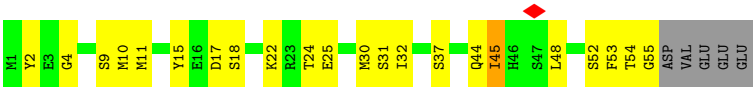
• Molecule 2: Arstotzka protein

Chain W8:



• Molecule 2: Arstotzka protein

Chain X8:

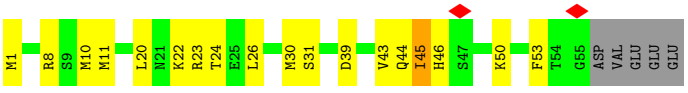


• Molecule 2: Arstotzka protein

Chain c8:

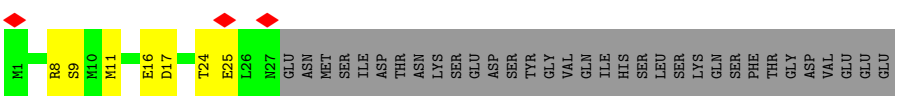
• Molecule 2: Arstotzka protein

Chain d8:



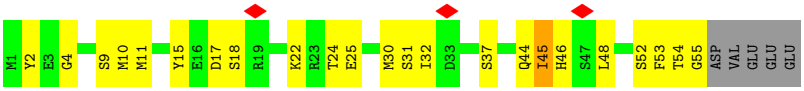
• Molecule 2: Arstotzka protein

Chain e8:



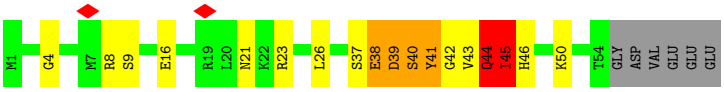
• Molecule 2: Arstotzka protein

Chain f8:



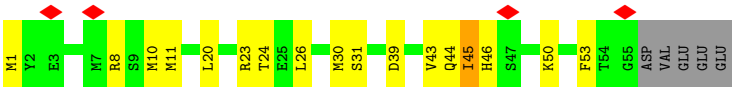
• Molecule 2: Arstotzka protein

Chain k8:



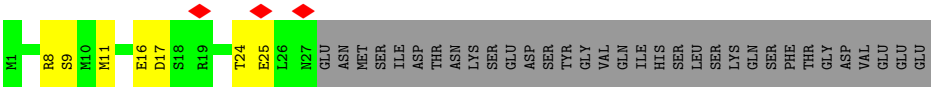
• Molecule 2: Arstotzka protein

Chain l8:



• Molecule 2: Arstotzka protein

Chain m8:



• Molecule 2: Arstotzka protein

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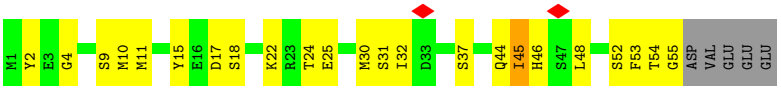

• Molecule 2: Arstotzka protein

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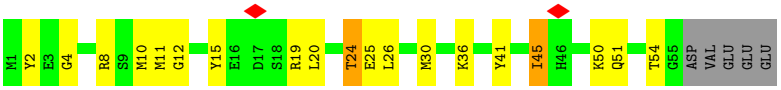
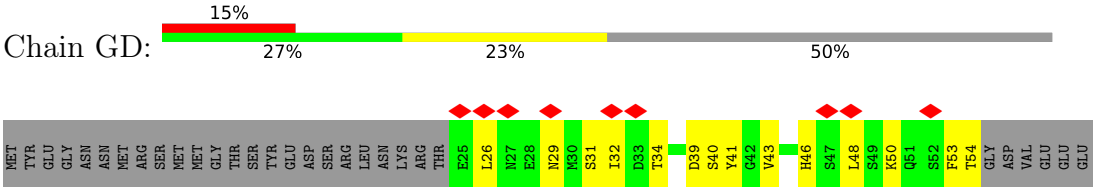


• Molecule 2: Arstotzka protein

Chain FD:

• Molecule 2: Arstotzka protein

Chain GD:



• Molecule 2: Arstotzka protein

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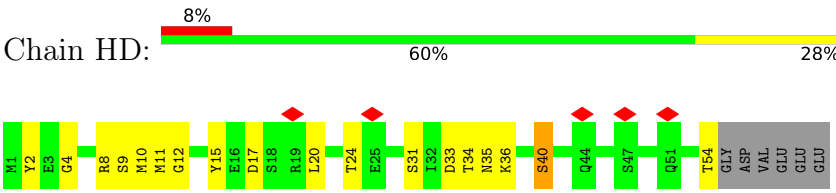
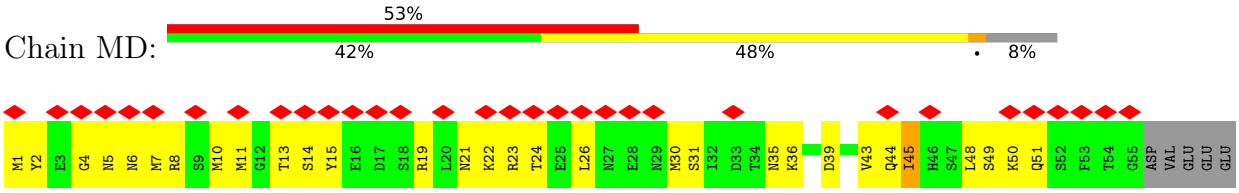


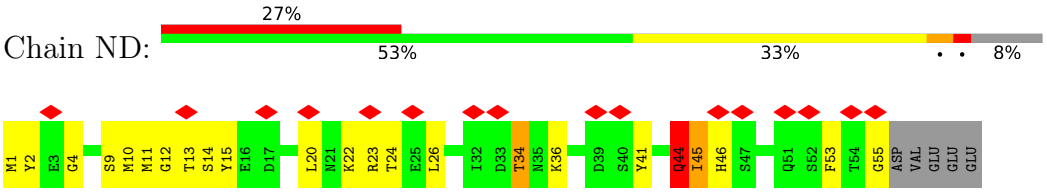
• Molecule 2: Arstotzka protein

Chain MD:



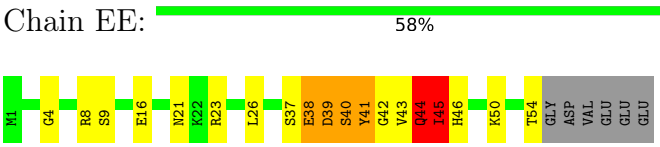
• Molecule 2: Arstotzka protein

Chain ND:



• Molecule 2: Arstotzka protein

Chain EE:



• Molecule 2: Arstotzka protein

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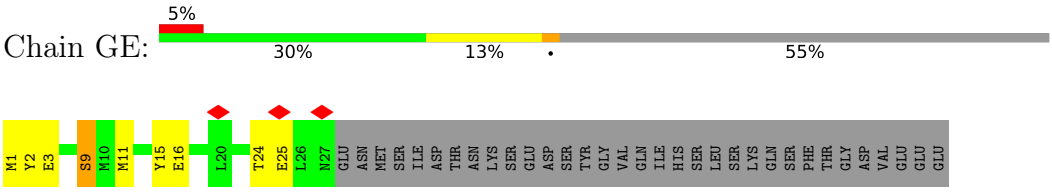
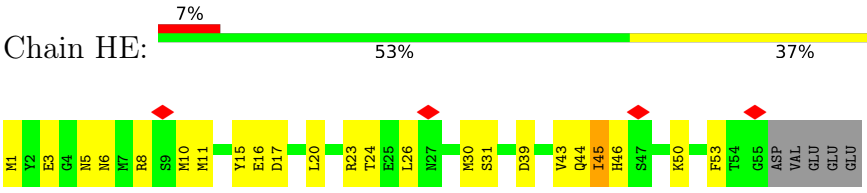


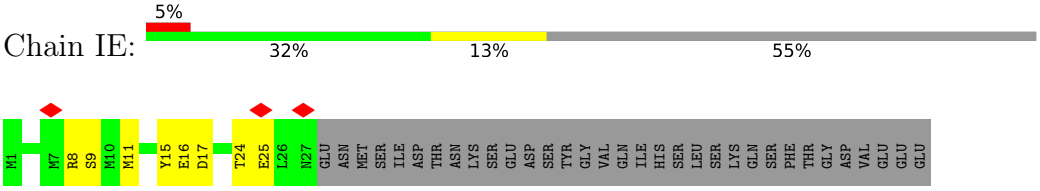
• Molecule 2: Arstotzka protein

Chain HE:



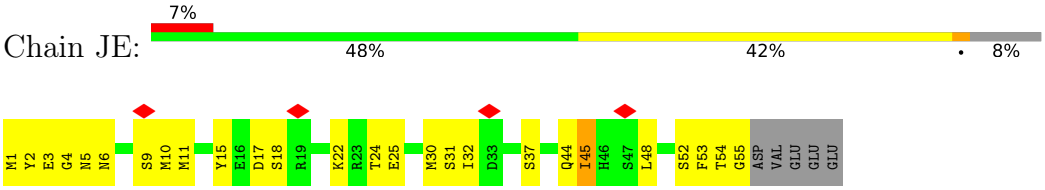
• Molecule 2: Arstotzka protein

Chain IE:



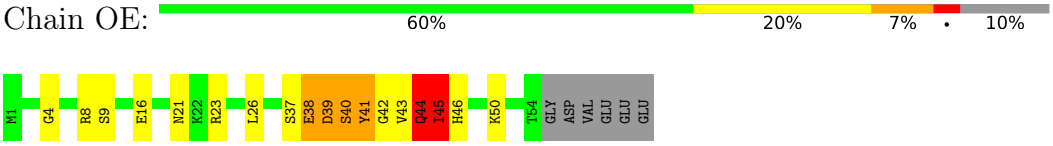
• Molecule 2: Arstotzka protein

Chain JE:



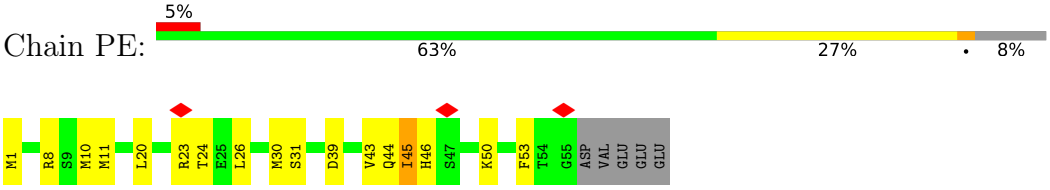
• Molecule 2: Arstotzka protein

Chain OE:



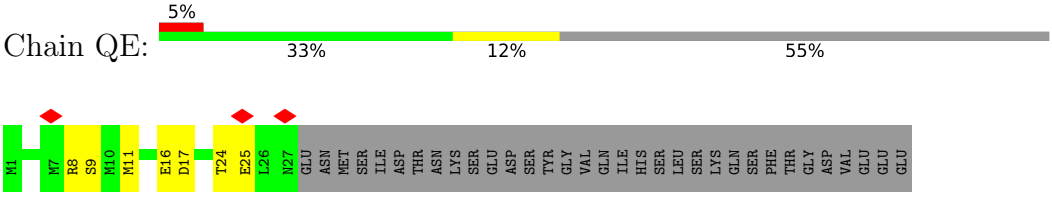
• Molecule 2: Arstotzka protein

Chain PE:



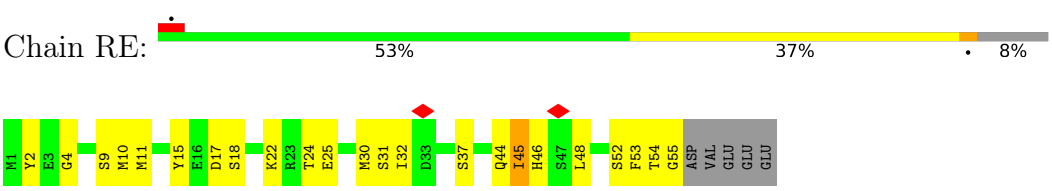
• Molecule 2: Arstotzka protein

Chain QE:



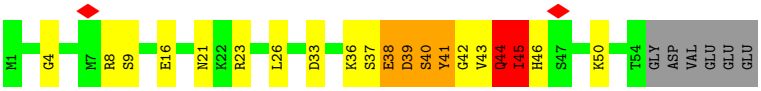
• Molecule 2: Arstotzka protein

Chain RE:



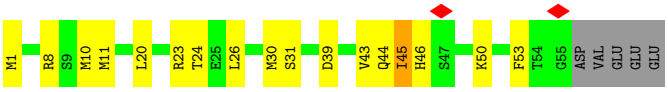
• Molecule 2: Arstotzka protein

Chain WE:



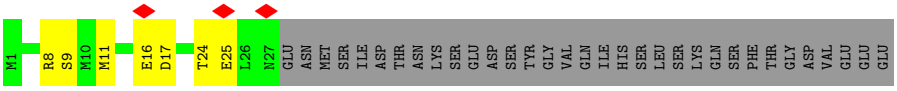
• Molecule 2: Arstotzka protein

Chain XE:



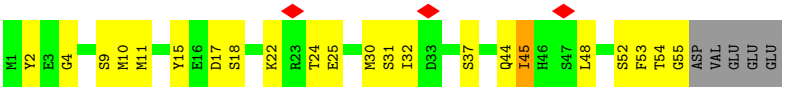
• Molecule 2: Arstotzka protein

Chain YE:



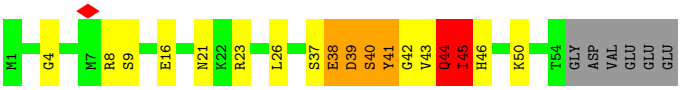
• Molecule 2: Arstotzka protein

Chain ZE:



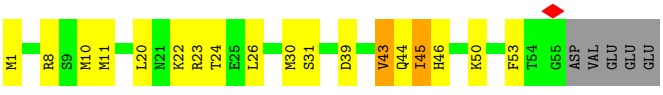
• Molecule 2: Arstotzka protein

Chain eE:



• Molecule 2: Arstotzka protein

Chain fE:

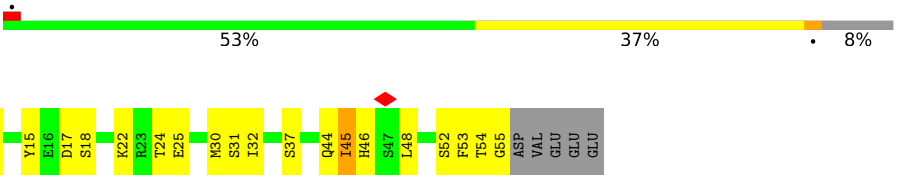


• Molecule 2: Arstotzka protein

Chain gE:

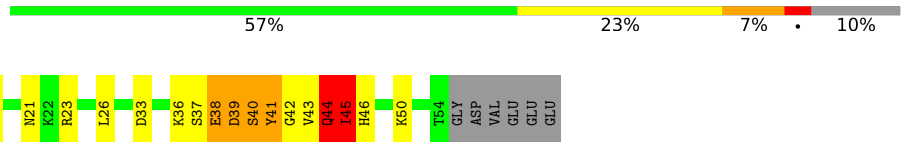
• Molecule 2: Arstotzka protein

Chain hE:



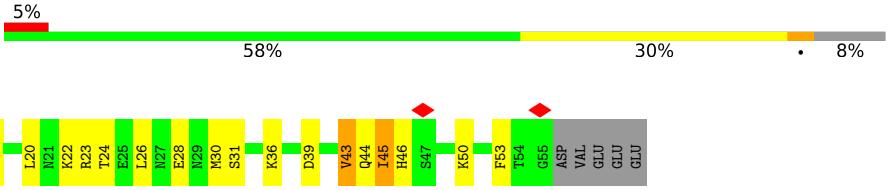
• Molecule 2: Arstotzka protein

Chain EG:



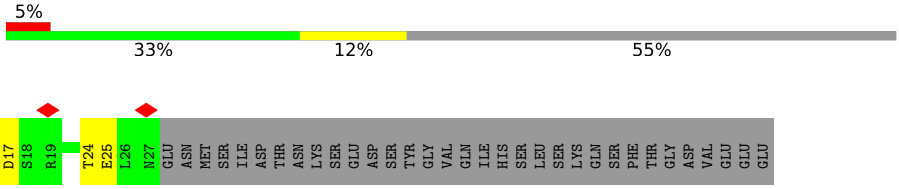
• Molecule 2: Arstotzka protein

Chain FG:



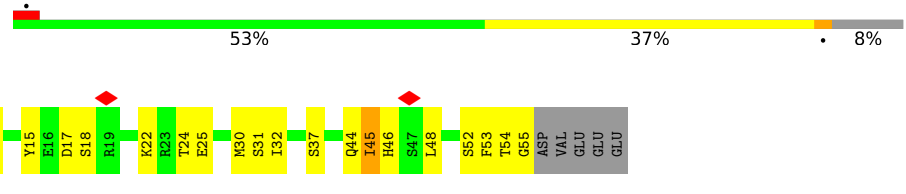
• Molecule 2: Arstotzka protein

Chain GG:



• Molecule 2: Arstotzka protein

Chain HG:



• Molecule 2: Arstotzka protein

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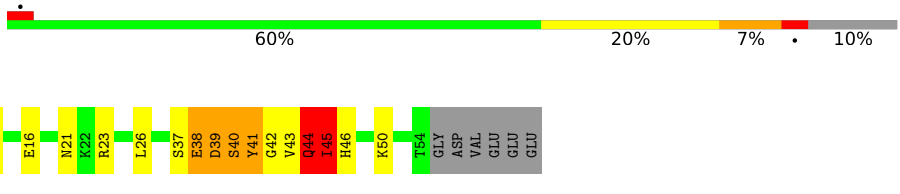
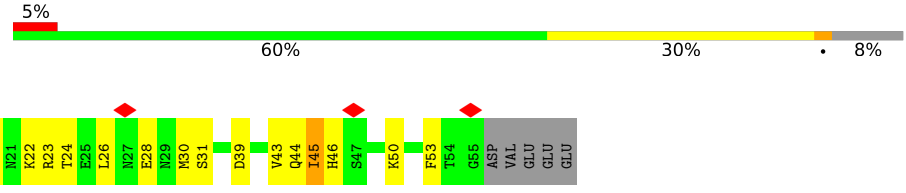


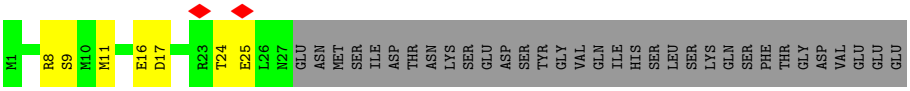
• Molecule 2: Arstotzka protein

Chain NG:



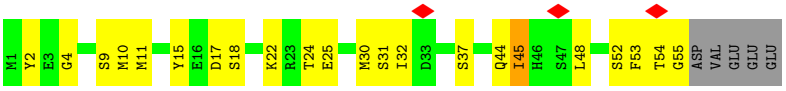
• Molecule 2: Arstotzka protein

Chain OG:



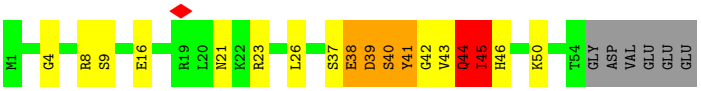
• Molecule 2: Arstotzka protein

Chain PG:



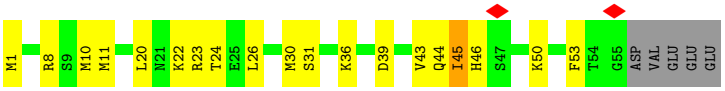
• Molecule 2: Arstotzka protein

Chain UG:



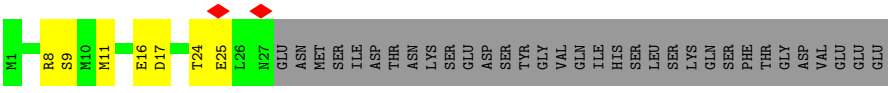
• Molecule 2: Arstotzka protein

Chain VG:



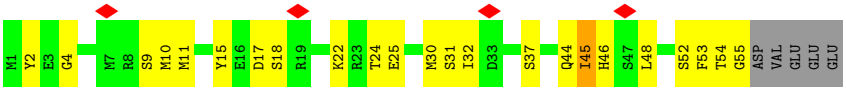
• Molecule 2: Arstotzka protein

Chain WG:



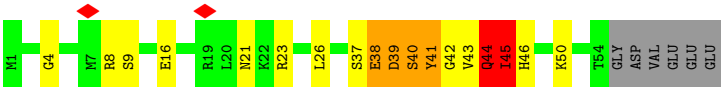
• Molecule 2: Arstotzka protein

Chain XG:



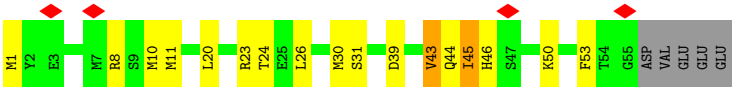
• Molecule 2: Arstotzka protein

Chain cG:



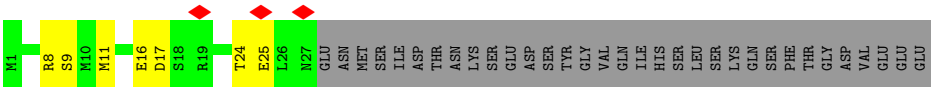
• Molecule 2: Arstotzka protein

Chain dG:



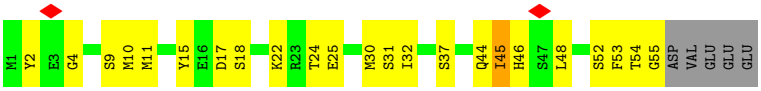
• Molecule 2: Arstotzka protein

Chain eG:



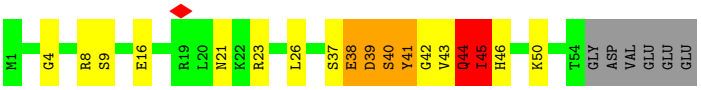
• Molecule 2: Arstotzka protein

Chain fG:



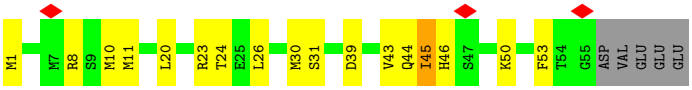
• Molecule 2: Arstotzka protein

Chain kG:



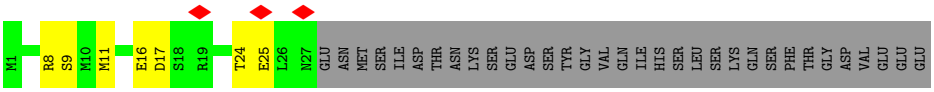
• Molecule 2: Arstotzka protein

Chain lG:



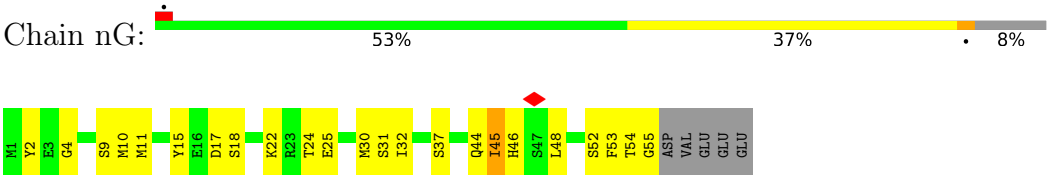
• Molecule 2: Arstotzka protein

Chain mG:



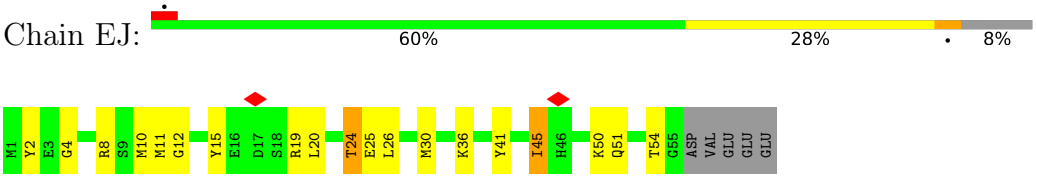
• Molecule 2: Arstotzka protein

Chain nG:



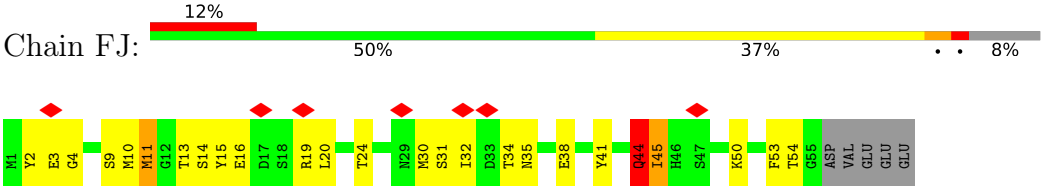
• Molecule 2: Arstotzka protein

Chain EJ:



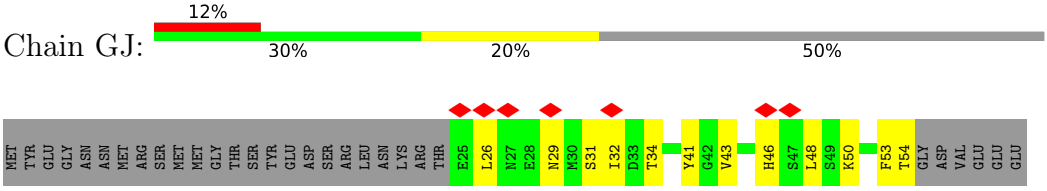
• Molecule 2: Arstotzka protein

Chain FJ:



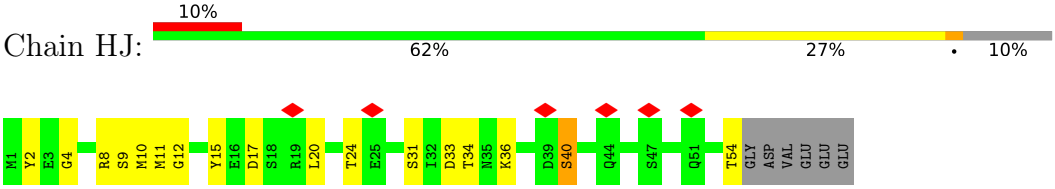
• Molecule 2: Arstotzka protein

Chain GJ:



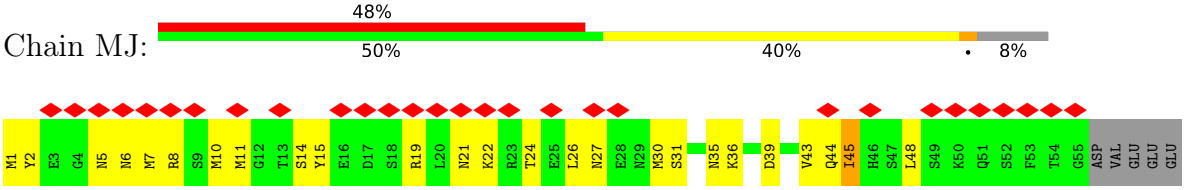
• Molecule 2: Arstotzka protein

Chain HJ:



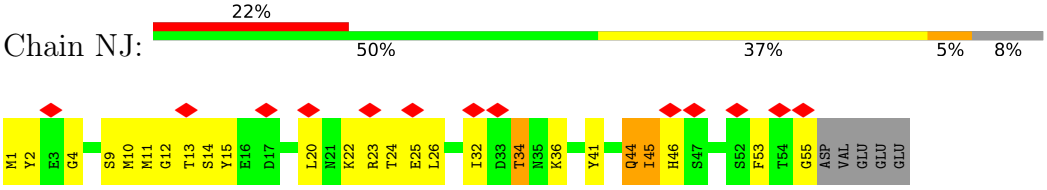
• Molecule 2: Arstotzka protein

Chain MJ:



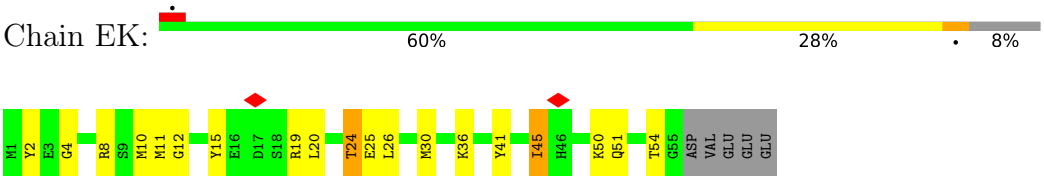
• Molecule 2: Arstotzka protein

Chain NJ:



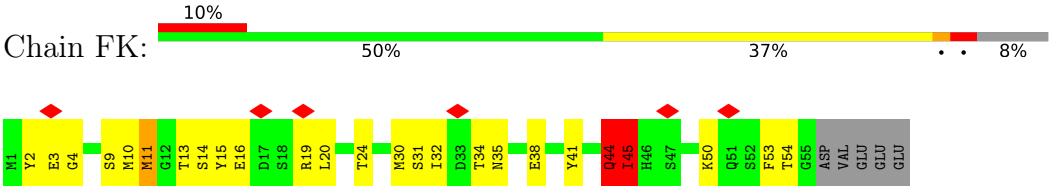
• Molecule 2: Arstotzka protein

Chain EK:



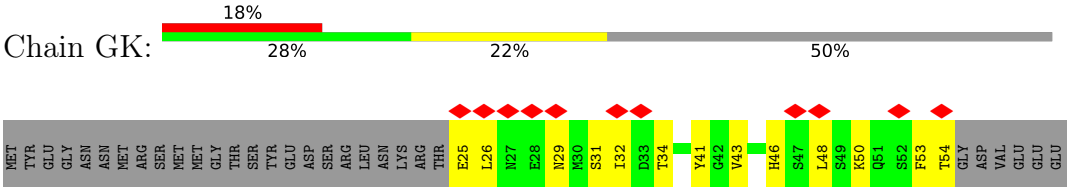
• Molecule 2: Arstotzka protein

Chain FK:



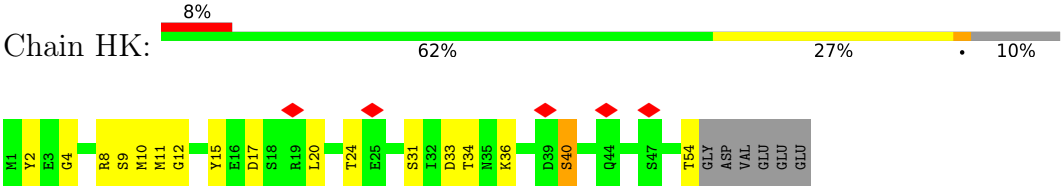
• Molecule 2: Arstotzka protein

Chain GK:



• Molecule 2: Arstotzka protein

Chain HK:



• Molecule 2: Arstotzka protein

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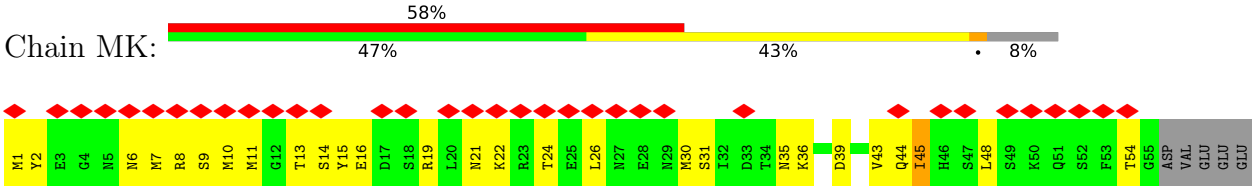
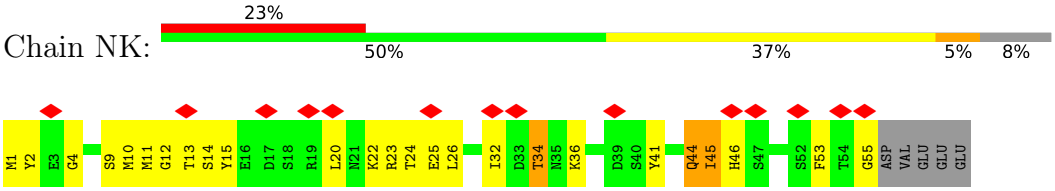


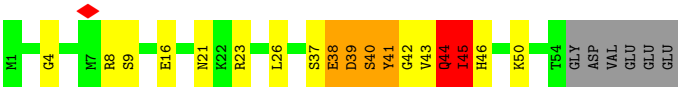
• Molecule 2: Arstotzka protein

Chain NK:



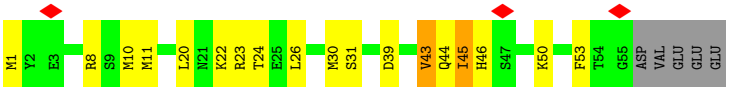
• Molecule 2: Arstotzka protein

Chain EL:



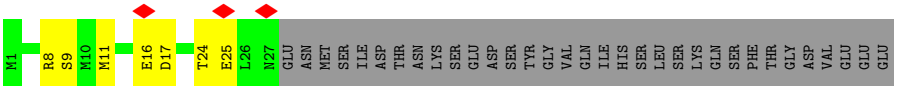
• Molecule 2: Arstotzka protein

Chain FL:



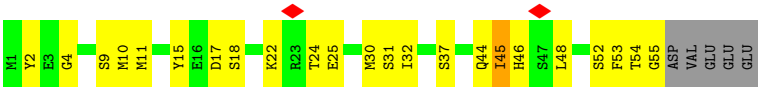
• Molecule 2: Arstotzka protein

Chain GL:



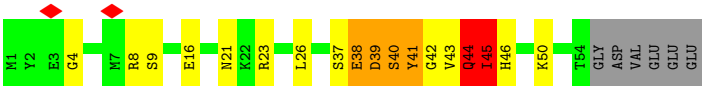
• Molecule 2: Arstotzka protein

Chain HL:



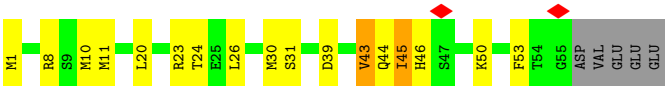
• Molecule 2: Arstotzka protein

Chain ML:



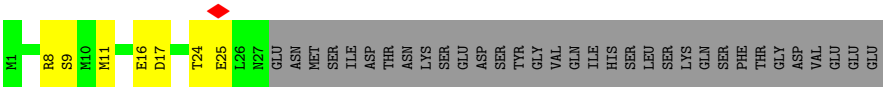
• Molecule 2: Arstotzka protein

Chain NL:



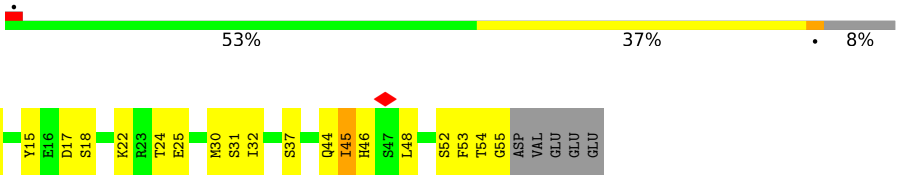
• Molecule 2: Arstotzka protein

Chain OL:



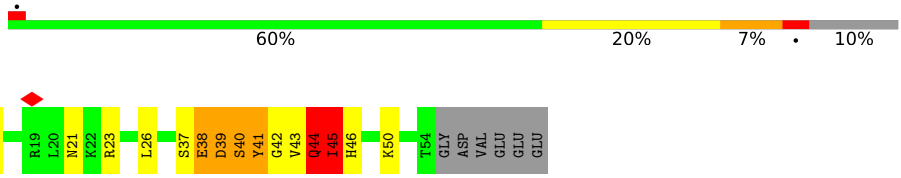
• Molecule 2: Arstotzka protein

Chain PL:



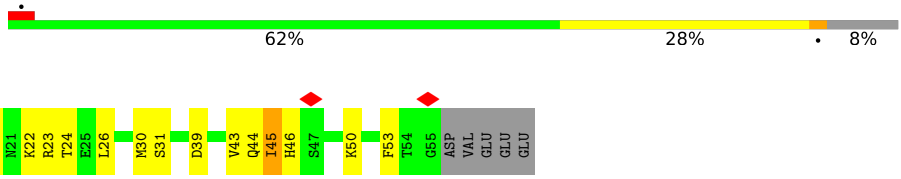
• Molecule 2: Arstotzka protein

Chain UL:



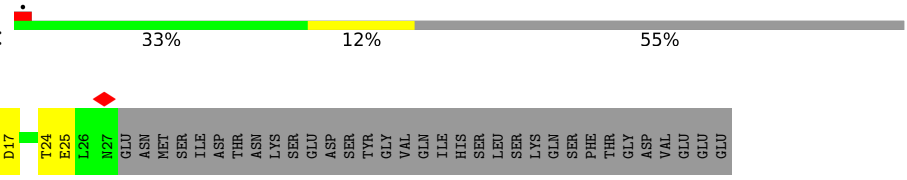
• Molecule 2: Arstotzka protein

Chain VL:



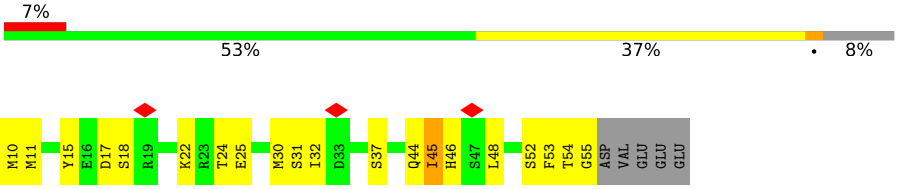
• Molecule 2: Arstotzka protein

Chain WL:



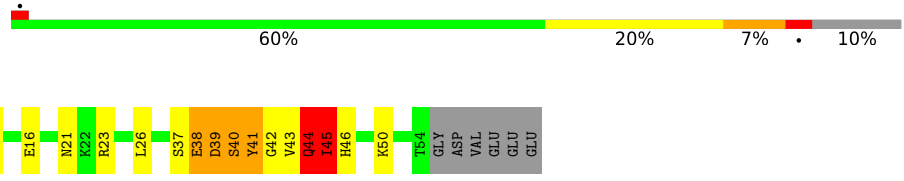
• Molecule 2: Arstotzka protein

Chain XL:



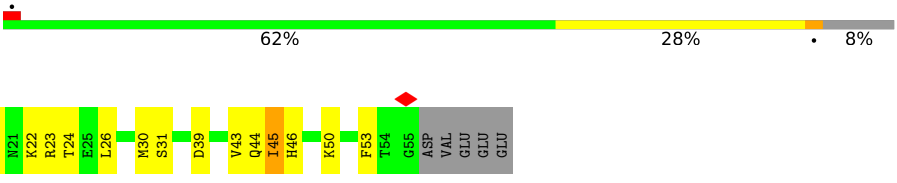
• Molecule 2: Arstotzka protein

Chain cL:



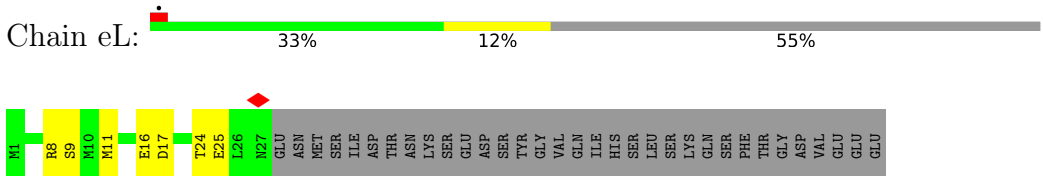
• Molecule 2: Arstotzka protein

Chain dL:



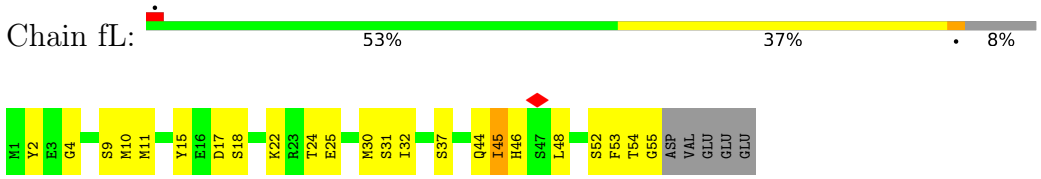
• Molecule 2: Arstotzka protein

Chain eL:



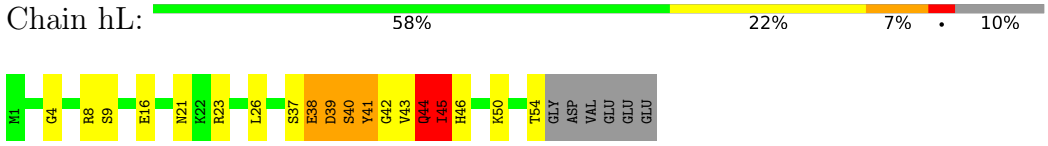
• Molecule 2: Arstotzka protein

Chain fL:



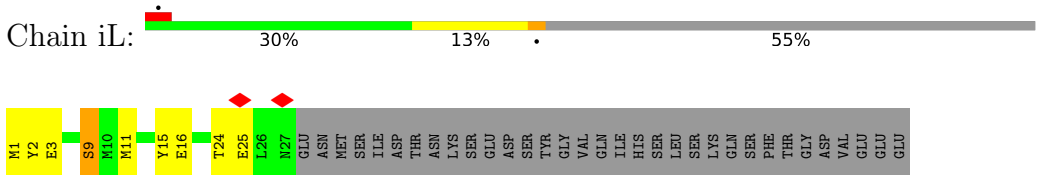
• Molecule 2: Arstotzka protein

Chain hL:



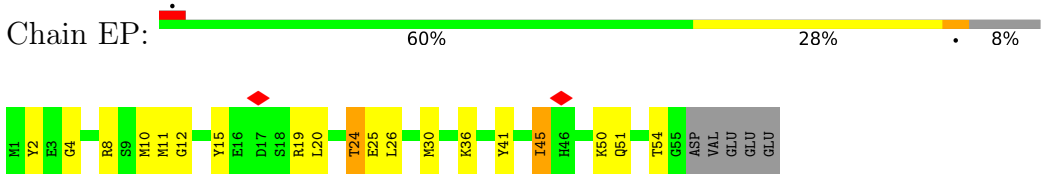
• Molecule 2: Arstotzka protein

Chain iL:



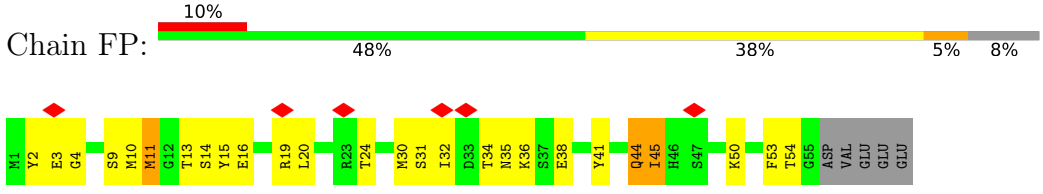
• Molecule 2: Arstotzka protein

Chain EP:



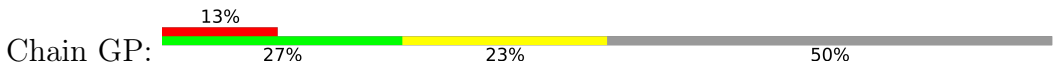
• Molecule 2: Arstotzka protein

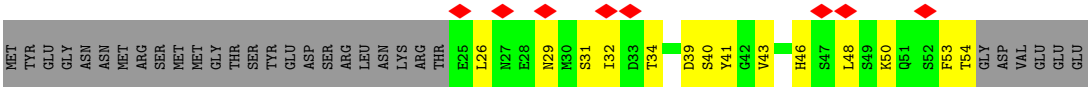
Chain FP:



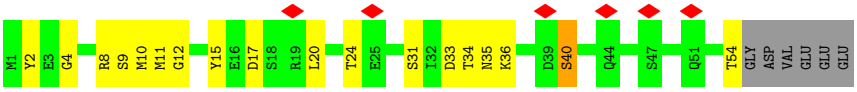
• Molecule 2: Arstotzka protein

Chain GP:

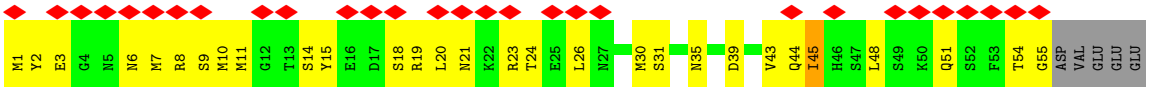




• Molecule 2: Arstotzka protein



• Molecule 2: Arstotzka protein



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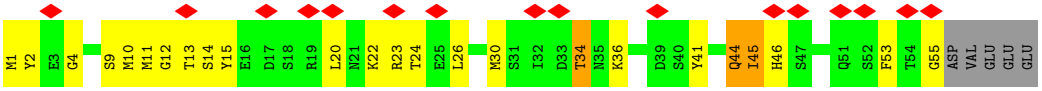
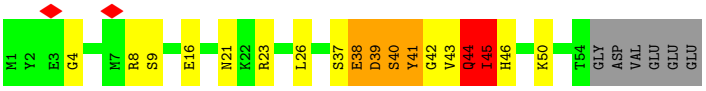
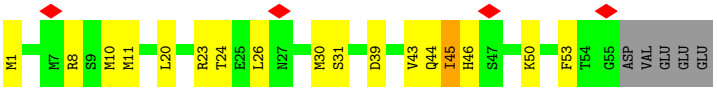


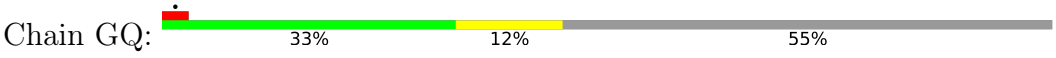
• Molecule 2: Arstotzka protein

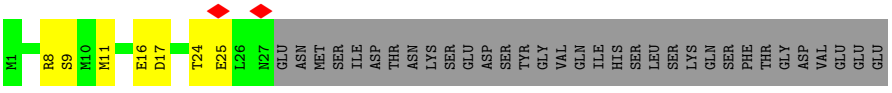


• Molecule 2: Arstotzka protein



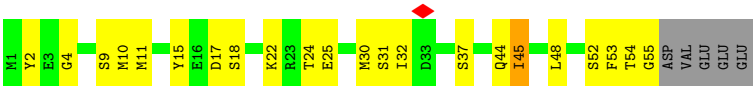
• Molecule 2: Arstotzka protein





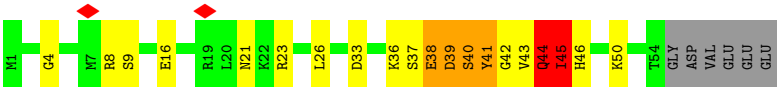
• Molecule 2: Arstotzka protein

Chain HQ:



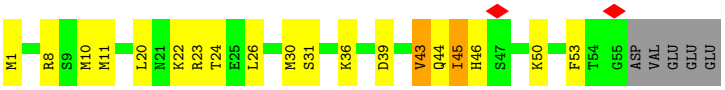
• Molecule 2: Arstotzka protein

Chain MQ:



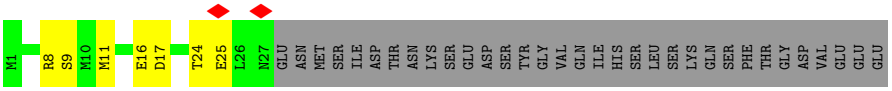
• Molecule 2: Arstotzka protein

Chain NQ:



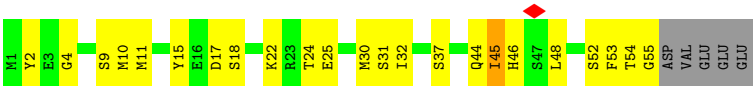
• Molecule 2: Arstotzka protein

Chain OQ:



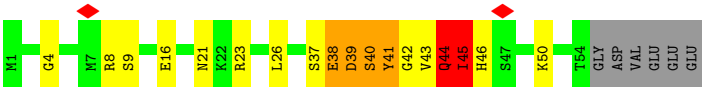
• Molecule 2: Arstotzka protein

Chain PQ:



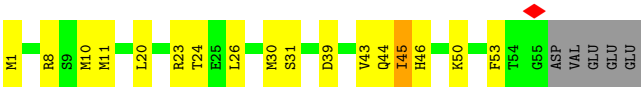
• Molecule 2: Arstotzka protein

Chain UQ:



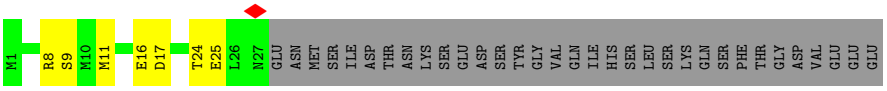
• Molecule 2: Arstotzka protein

Chain VQ:



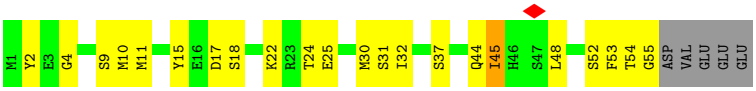
• Molecule 2: Arstotzka protein

Chain WQ:



• Molecule 2: Arstotzka protein

Chain XQ:

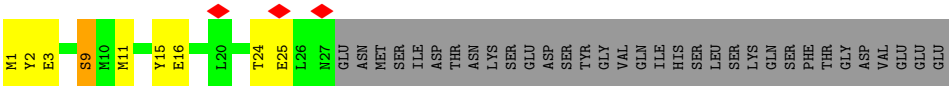


• Molecule 2: Arstotzka protein

Chain ZQ:

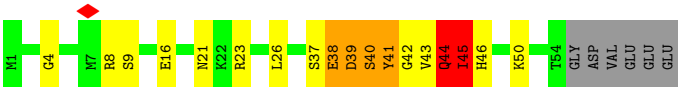
• Molecule 2: Arstotzka protein

Chain aQ:



• Molecule 2: Arstotzka protein

Chain fQ:

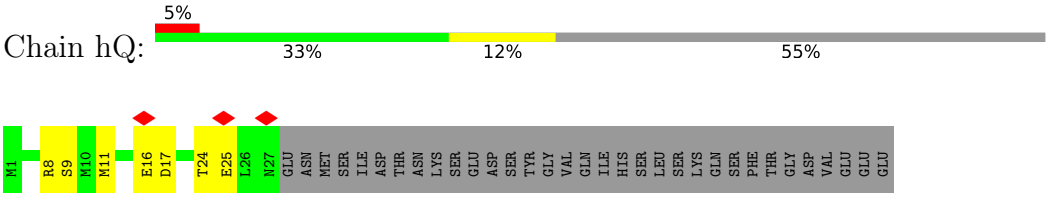


• Molecule 2: Arstotzka protein

Chain gQ:

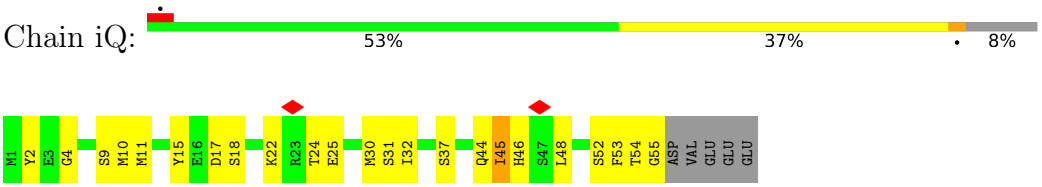
• Molecule 2: Arstotzka protein

Chain hQ:



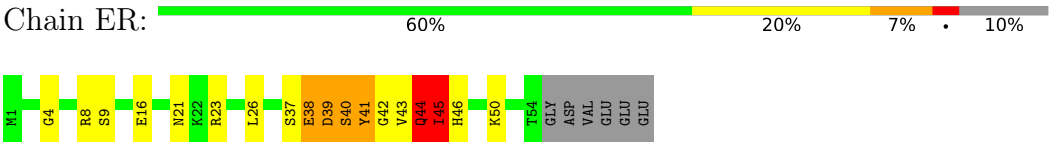
• Molecule 2: Arstotzka protein

Chain iQ:



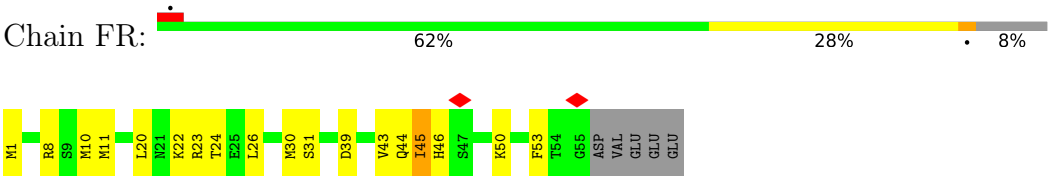
• Molecule 2: Arstotzka protein

Chain ER:



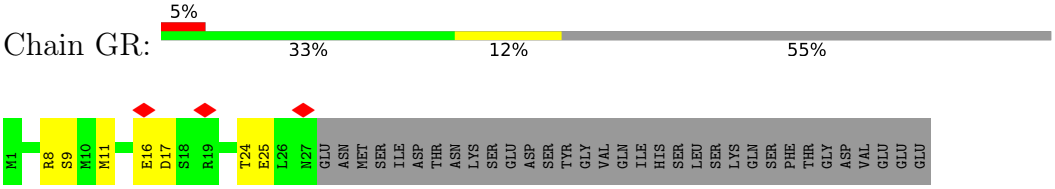
• Molecule 2: Arstotzka protein

Chain FR:



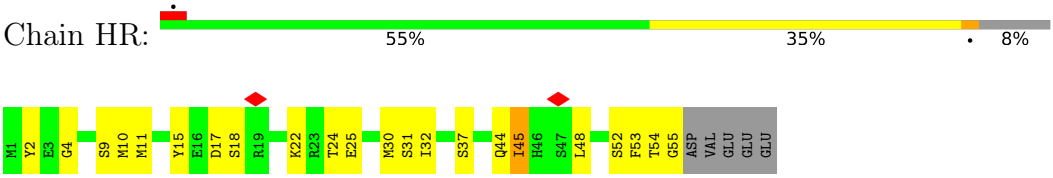
• Molecule 2: Arstotzka protein

Chain GR:



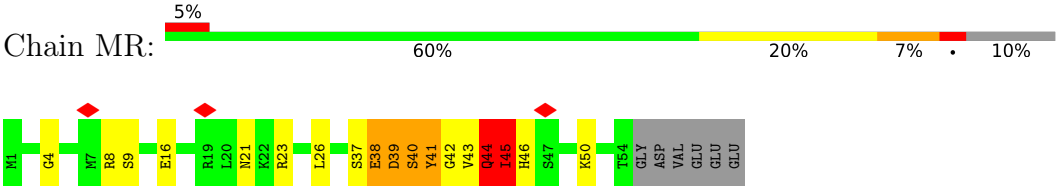
• Molecule 2: Arstotzka protein

Chain HR:



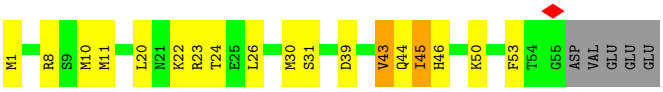
• Molecule 2: Arstotzka protein

Chain MR:



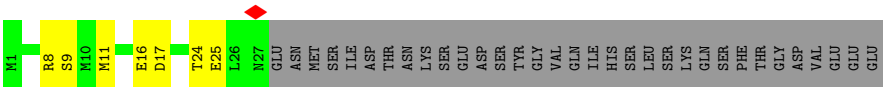
• Molecule 2: Arstotzka protein

Chain NR:



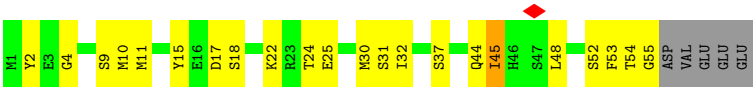
• Molecule 2: Arstotzka protein

Chain OR:



• Molecule 2: Arstotzka protein

Chain PR:

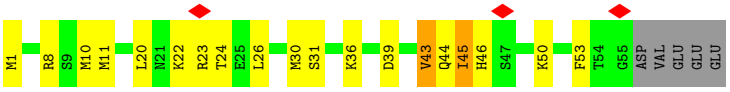


• Molecule 2: Arstotzka protein

Chain UR:

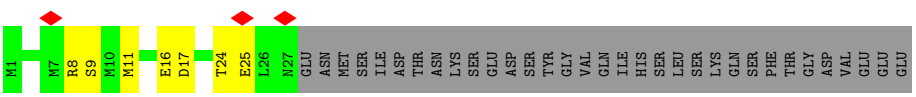
• Molecule 2: Arstotzka protein

Chain VR:



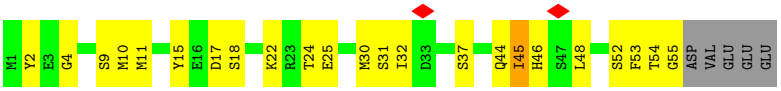
• Molecule 2: Arstotzka protein

Chain WR:

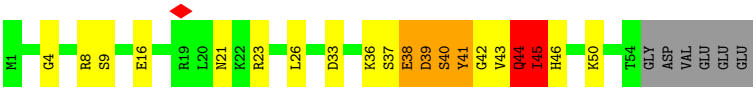


• Molecule 2: Arstotzka protein

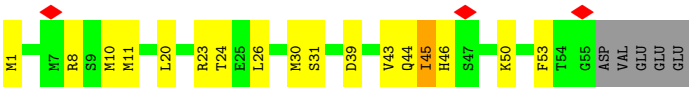
Chain XR:



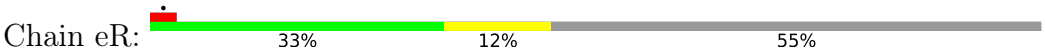
• Molecule 2: Arstotzka protein

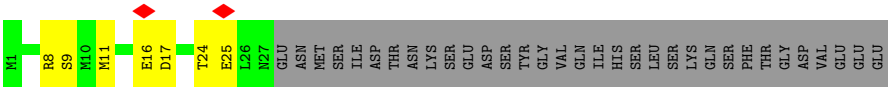


• Molecule 2: Arstotzka protein

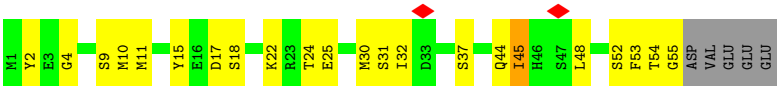


• Molecule 2: Arstotzka protein

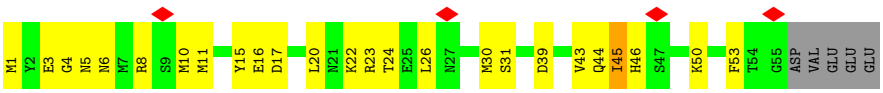




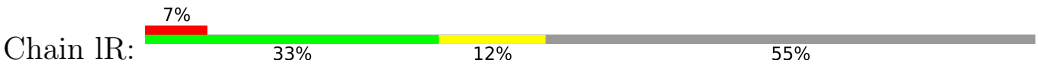
• Molecule 2: Arstotzka protein

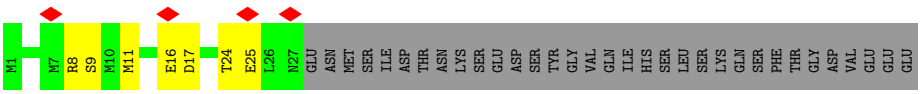


• Molecule 2: Arstotzka protein



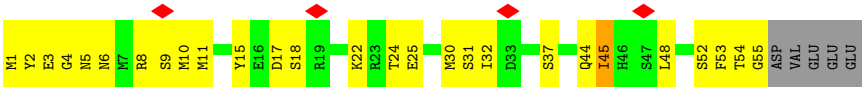
• Molecule 2: Arstotzka protein





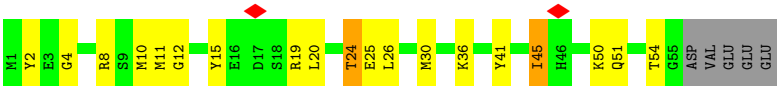
• Molecule 2: Arstotzka protein

Chain mR:



• Molecule 2: Arstotzka protein

Chain DS:

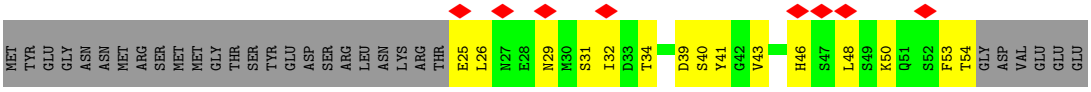


• Molecule 2: Arstotzka protein

Chain ES:

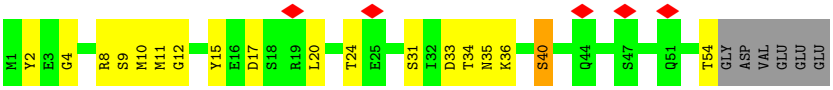
• Molecule 2: Arstotzka protein

Chain FS:



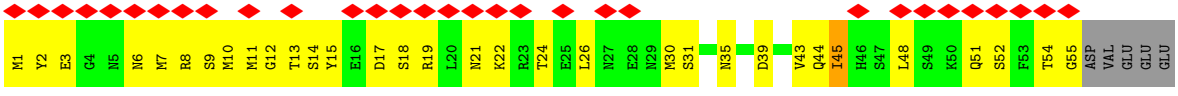
• Molecule 2: Arstotzka protein

Chain GS:



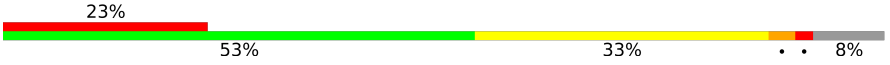
• Molecule 2: Arstotzka protein

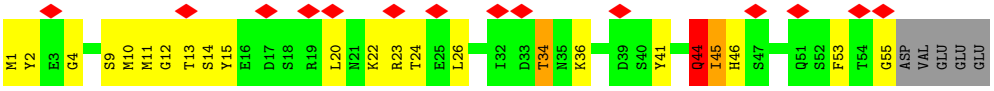
Chain LS:



• Molecule 2: Arstotzka protein

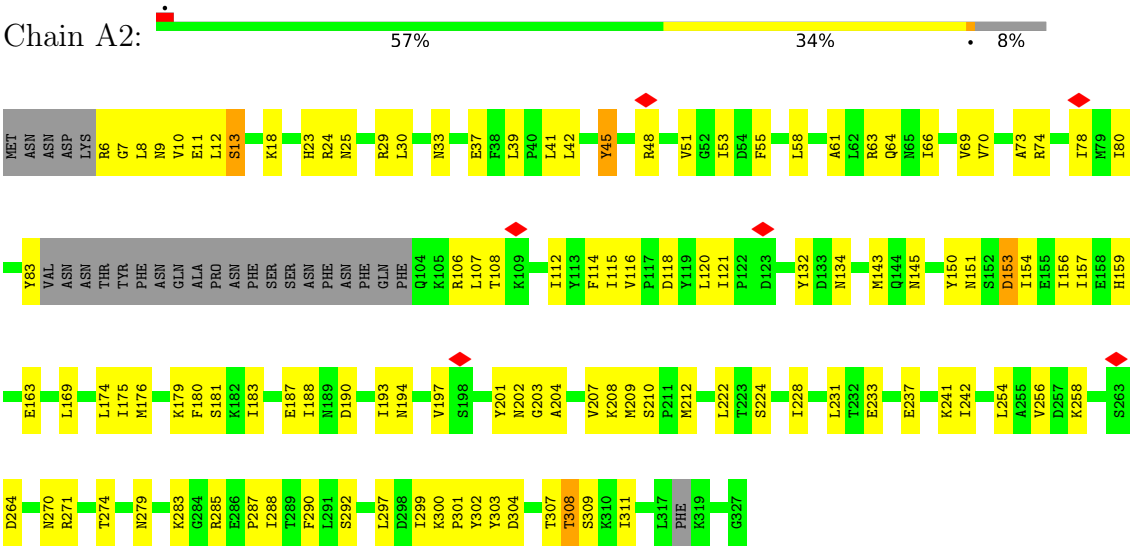
Chain MS:





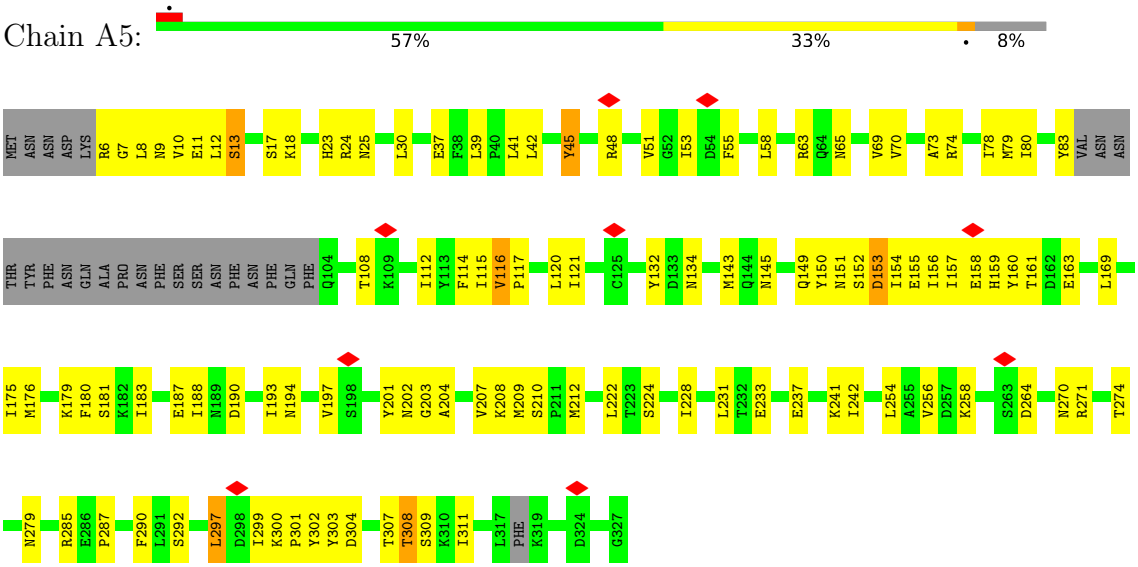
• Molecule 3: Portal protein

Chain A2:



• Molecule 3: Portal protein

Chain A5:



• Molecule 3: Portal protein

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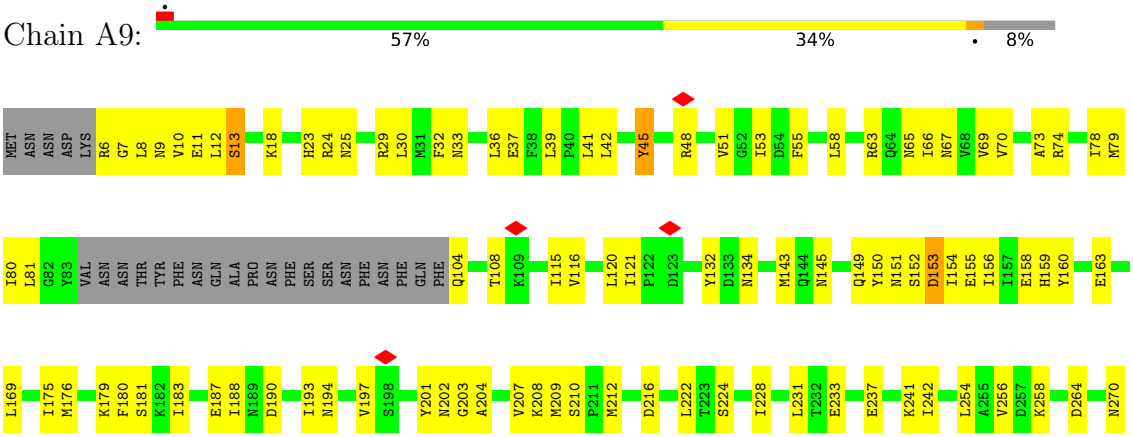

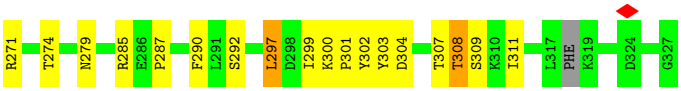

• Molecule 3: Portal protein

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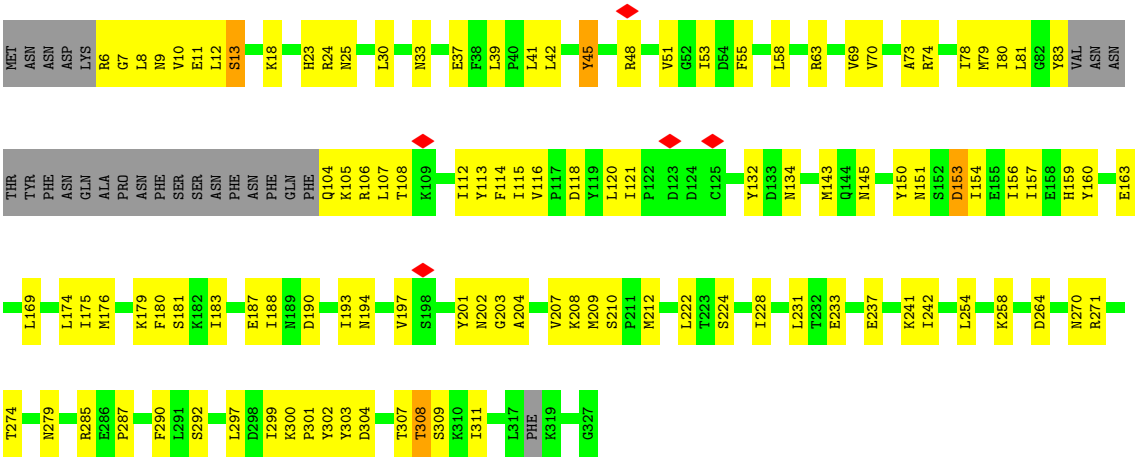
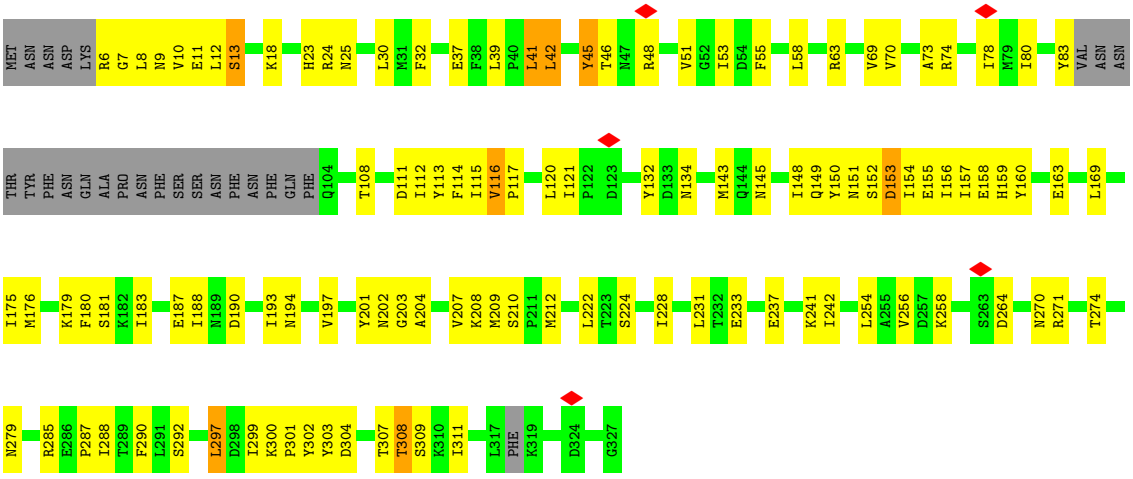


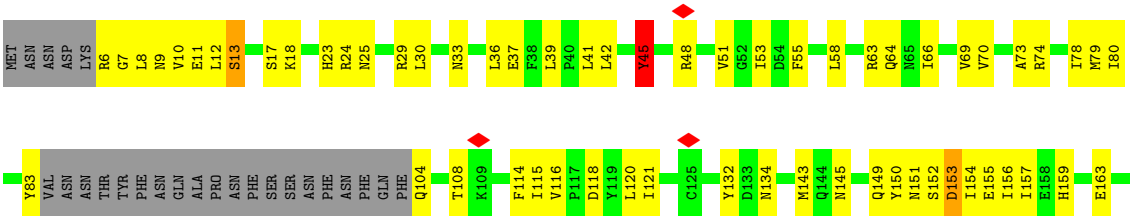
• Molecule 3: Portal protein

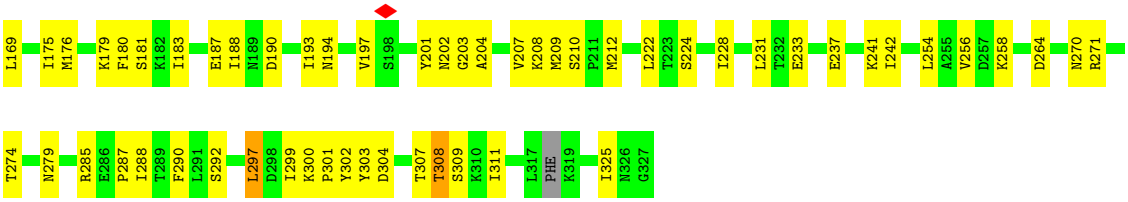
Chain AB:



• Molecule 3: Portal protein

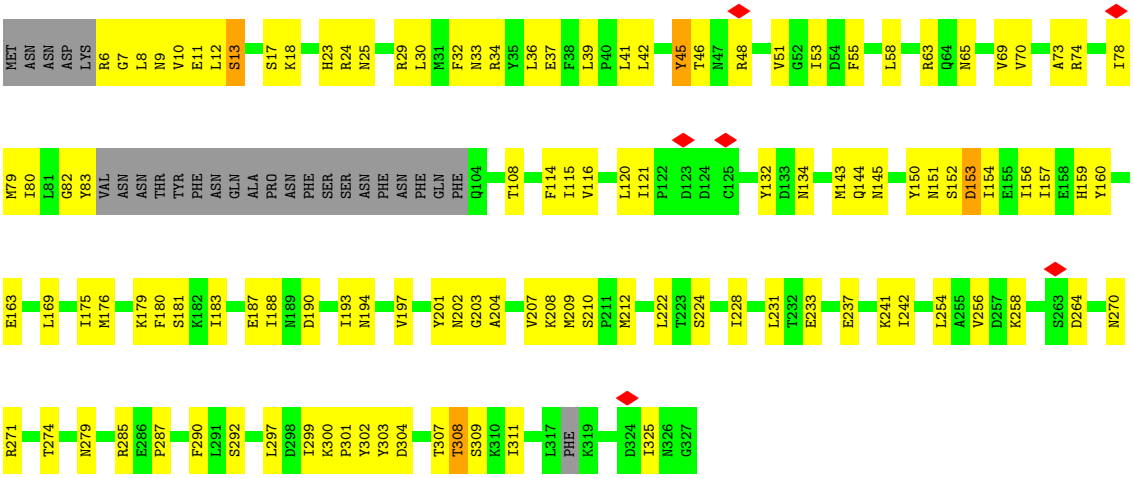
Chain AC:





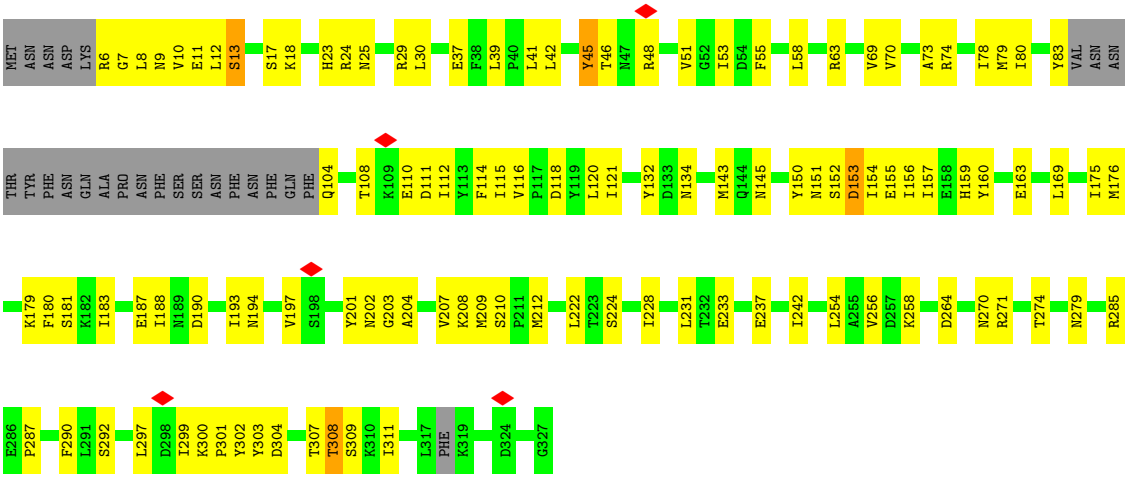
• Molecule 3: Portal protein

Chain AF:



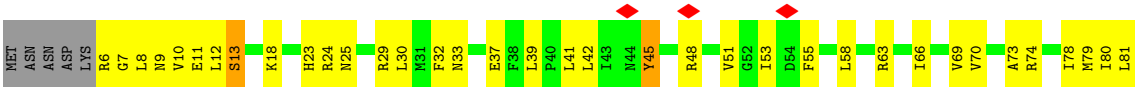
• Molecule 3: Portal protein

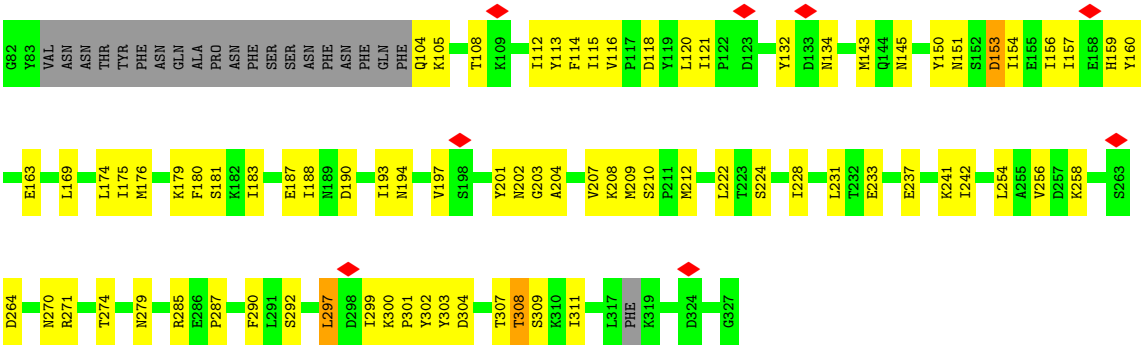
Chain AH:



• Molecule 3: Portal protein

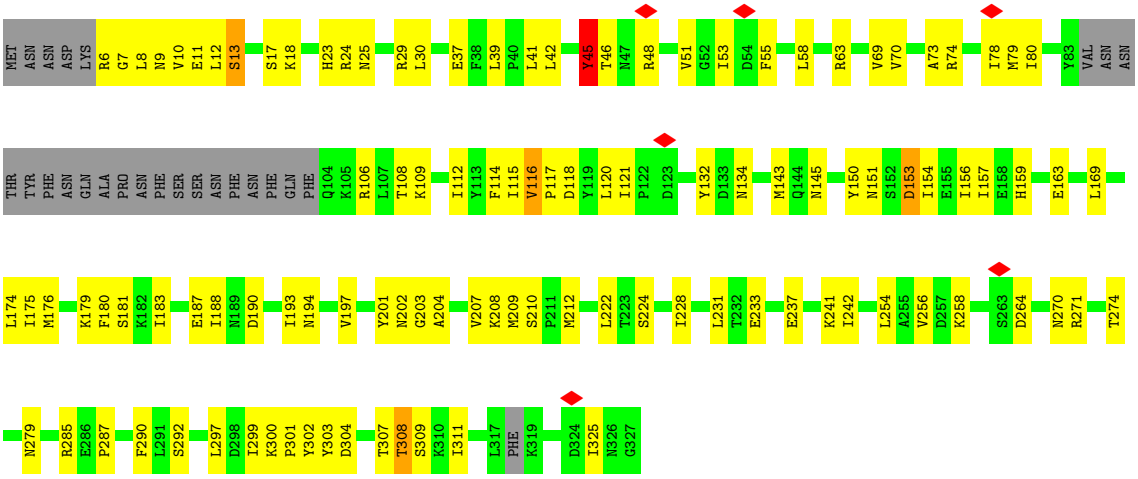
Chain AI:





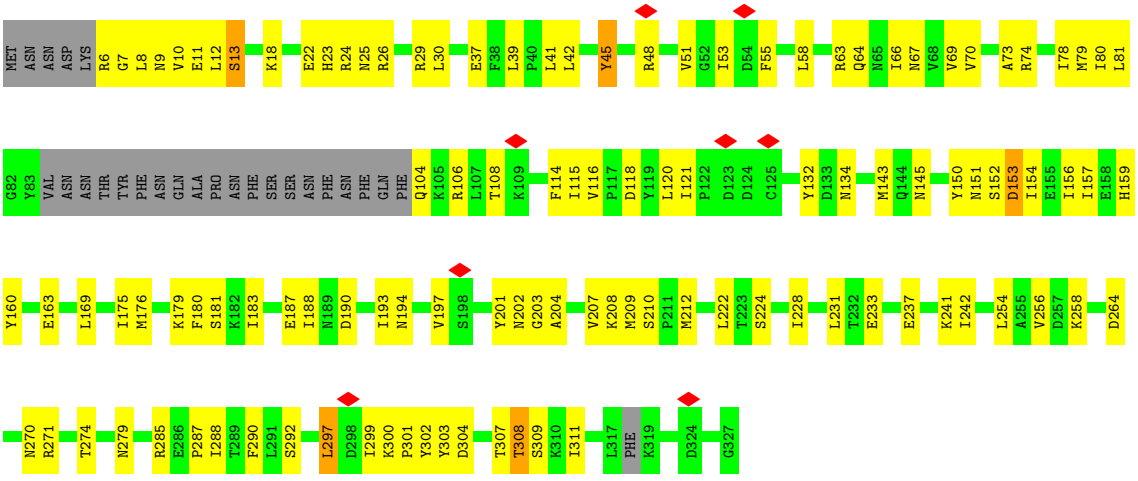
• Molecule 3: Portal protein

Chain AM:



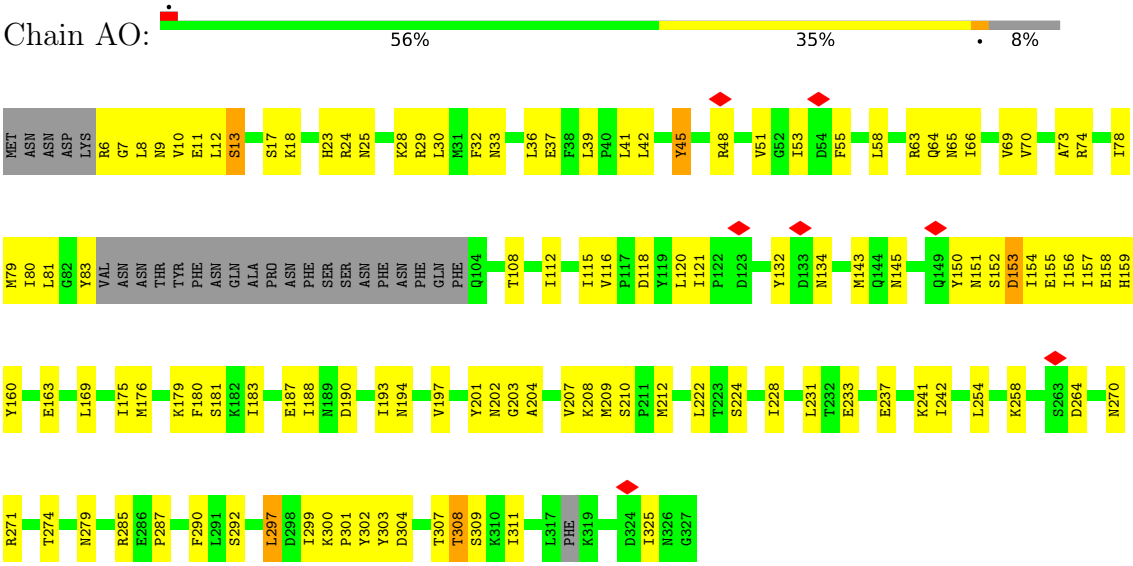
• Molecule 3: Portal protein

Chain AN:



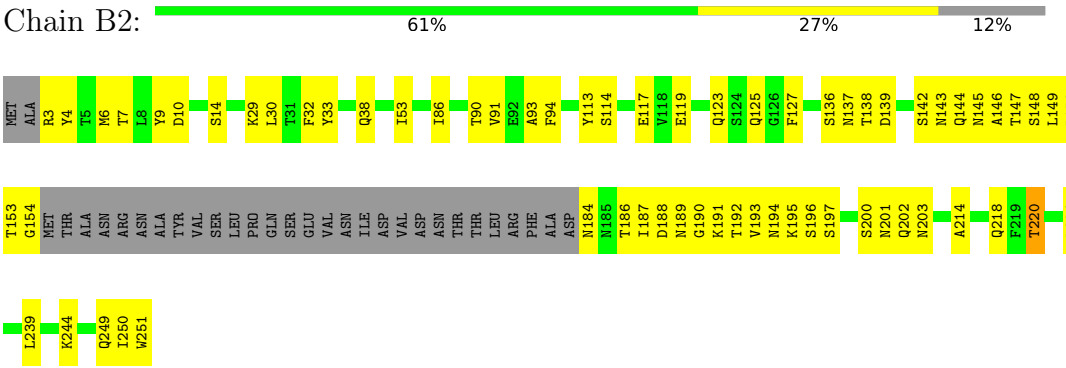
• Molecule 3: Portal protein

Chain AO:



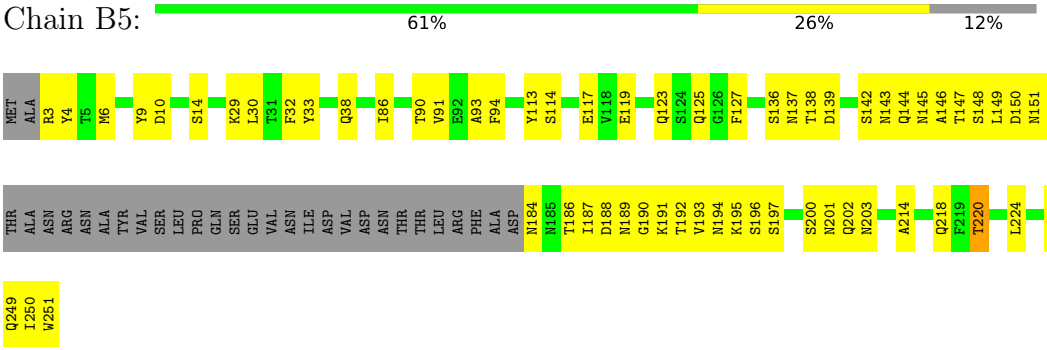
• Molecule 4: Lower collar protein

Chain B2:



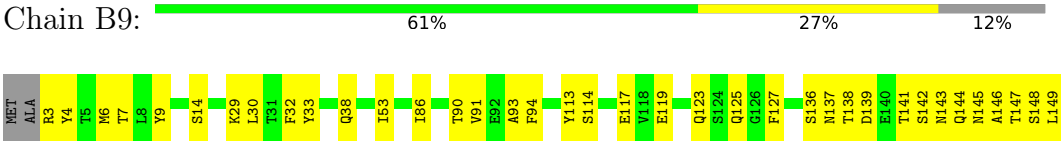
• Molecule 4: Lower collar protein

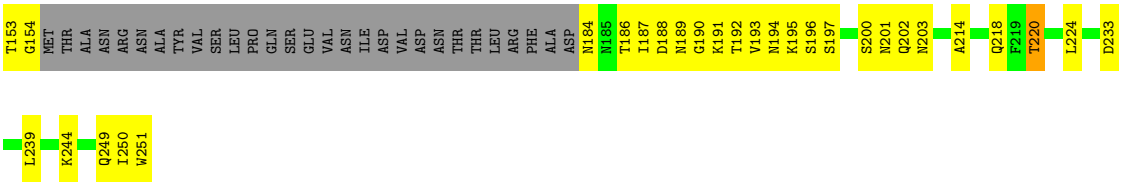
Chain B5:



• Molecule 4: Lower collar protein

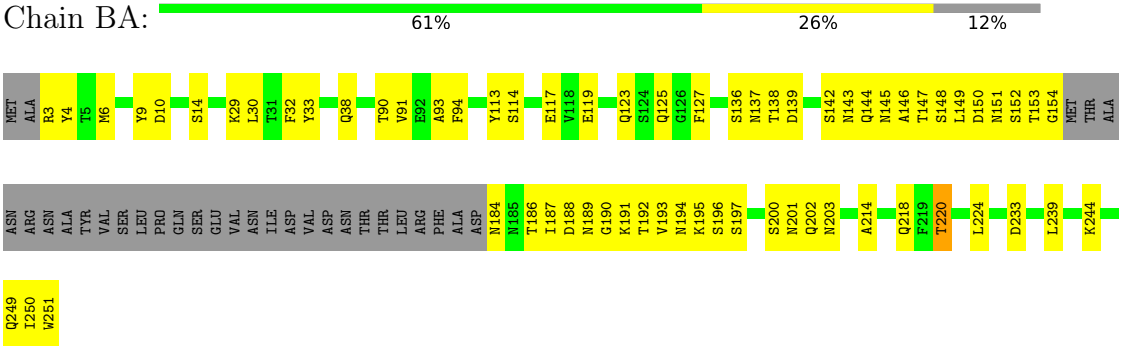
Chain B9:





• Molecule 4: Lower collar protein

Chain BA:



• Molecule 4: Lower collar protein

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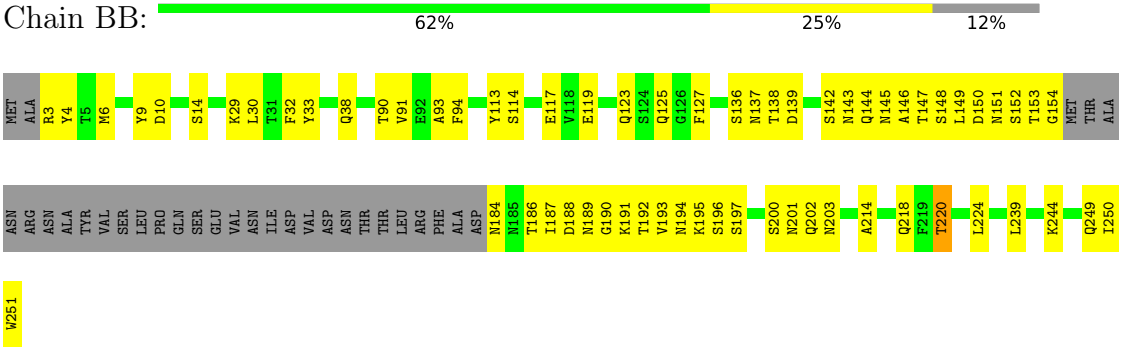

• Molecule 4: Lower collar protein

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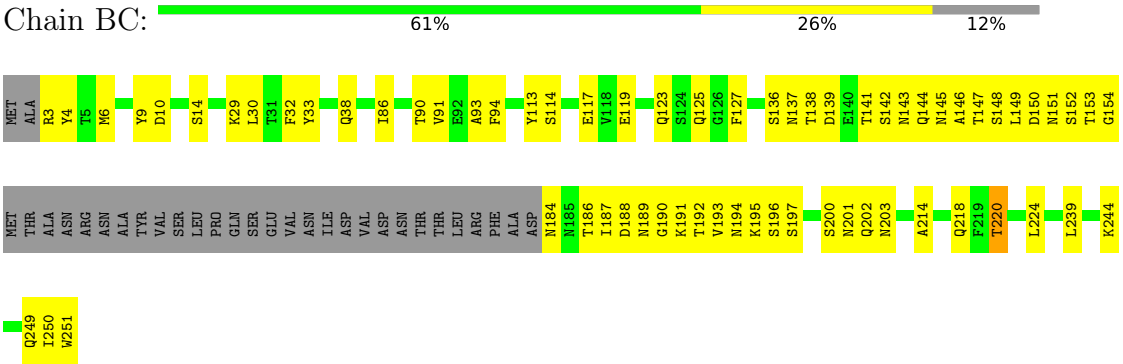
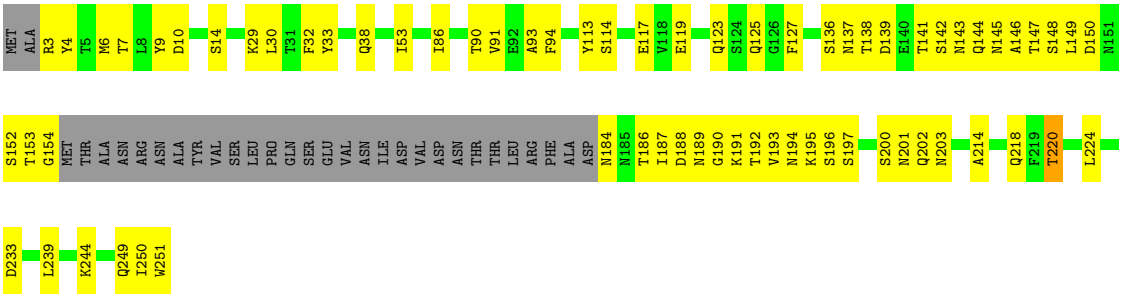


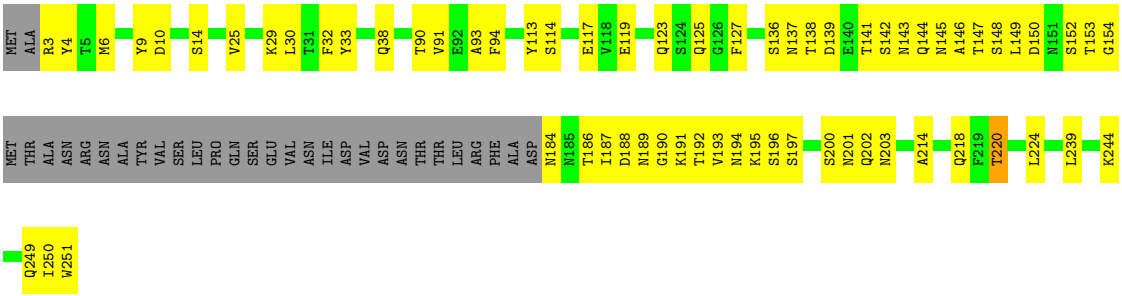
• Molecule 4: Lower collar protein

Chain BF:



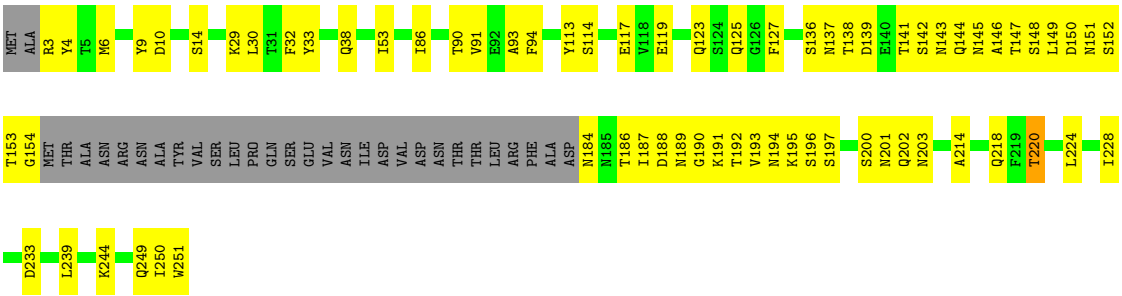
• Molecule 4: Lower collar protein

Chain BH:



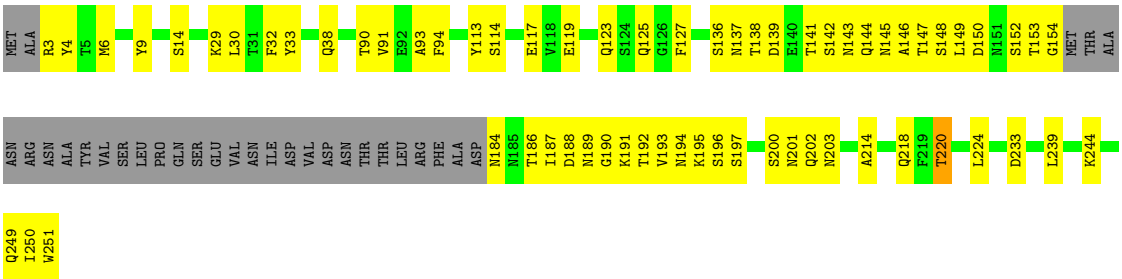
• Molecule 4: Lower collar protein

Chain BI:



• Molecule 4: Lower collar protein

Chain BM:



• Molecule 4: Lower collar protein

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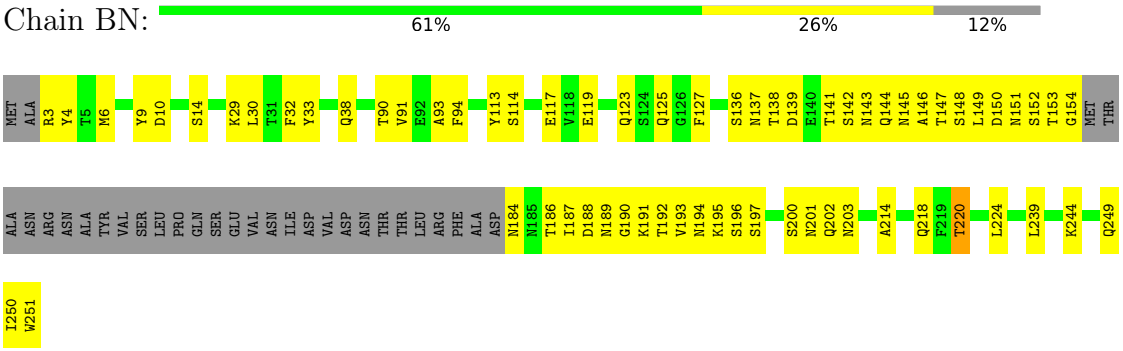
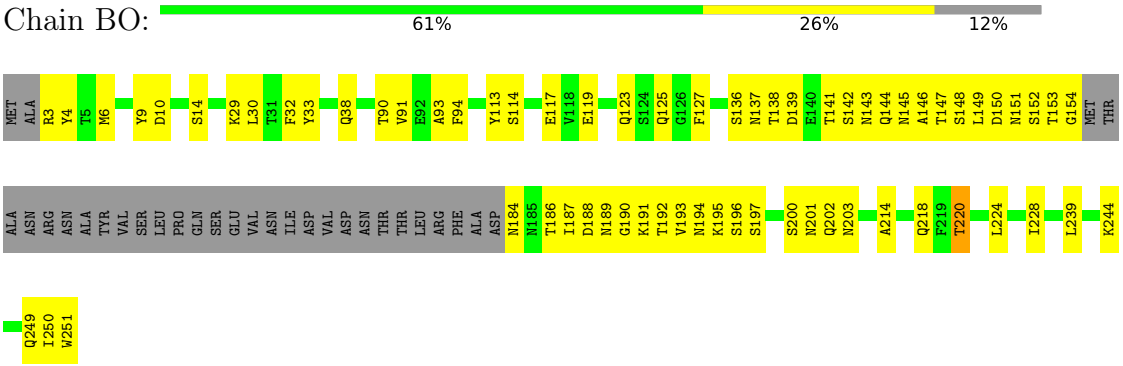


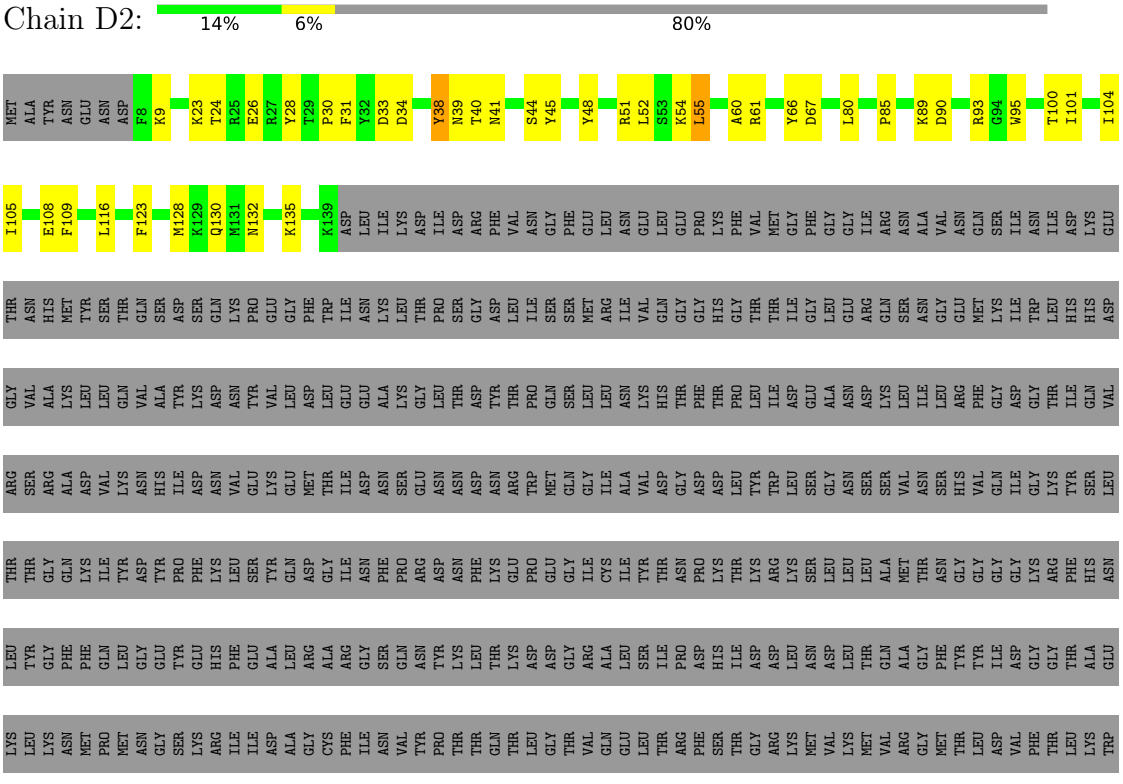
• Molecule 4: Lower collar protein

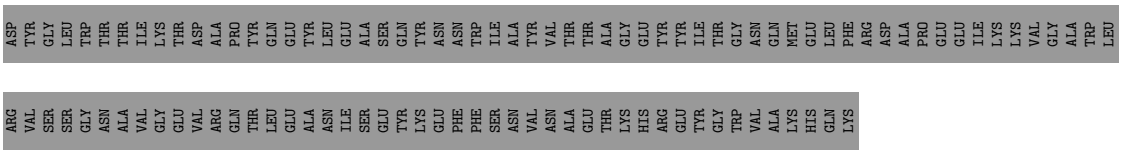
Chain BO:



• Molecule 5: Minor structural protein

Chain D2:



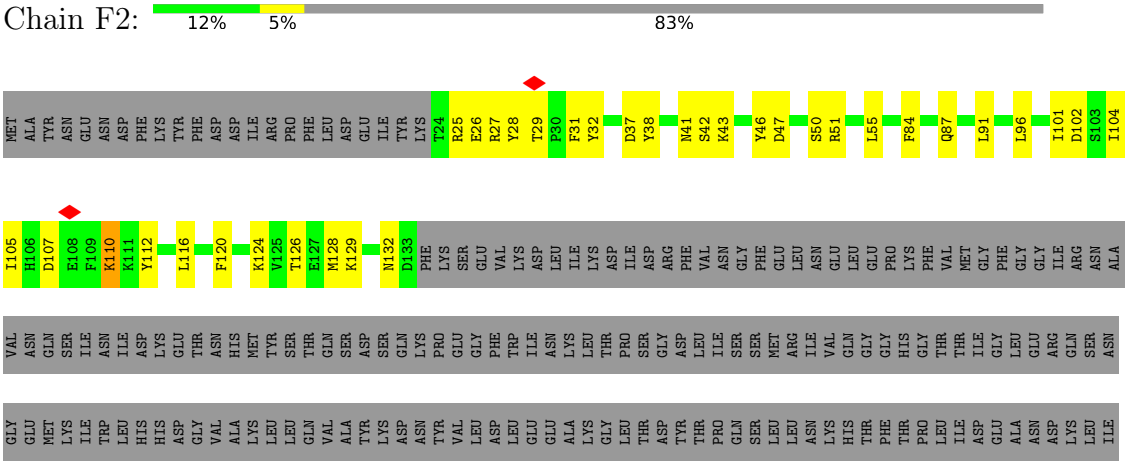


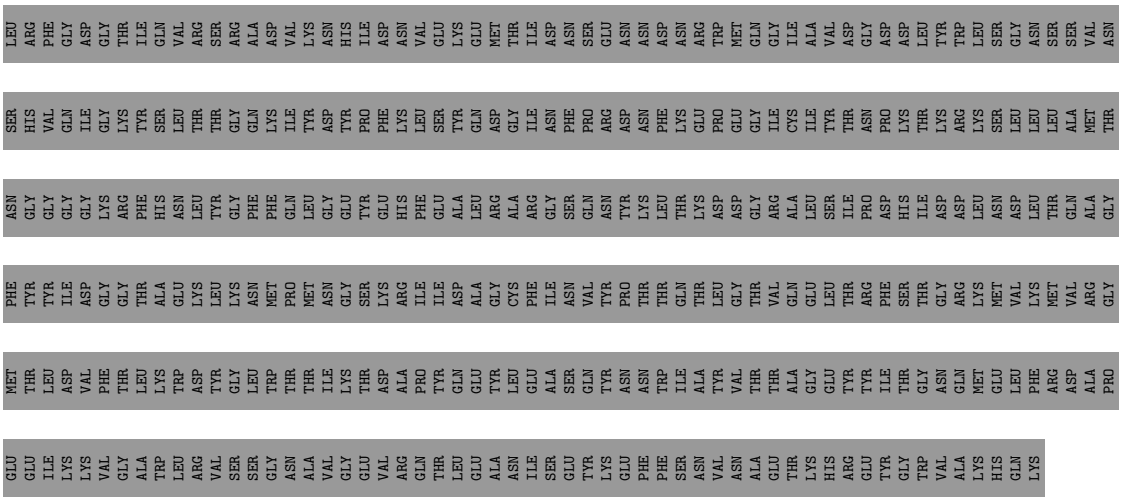
• Molecule 5: Minor structural protein

Chain E2:

• Molecule 5: Minor structural protein

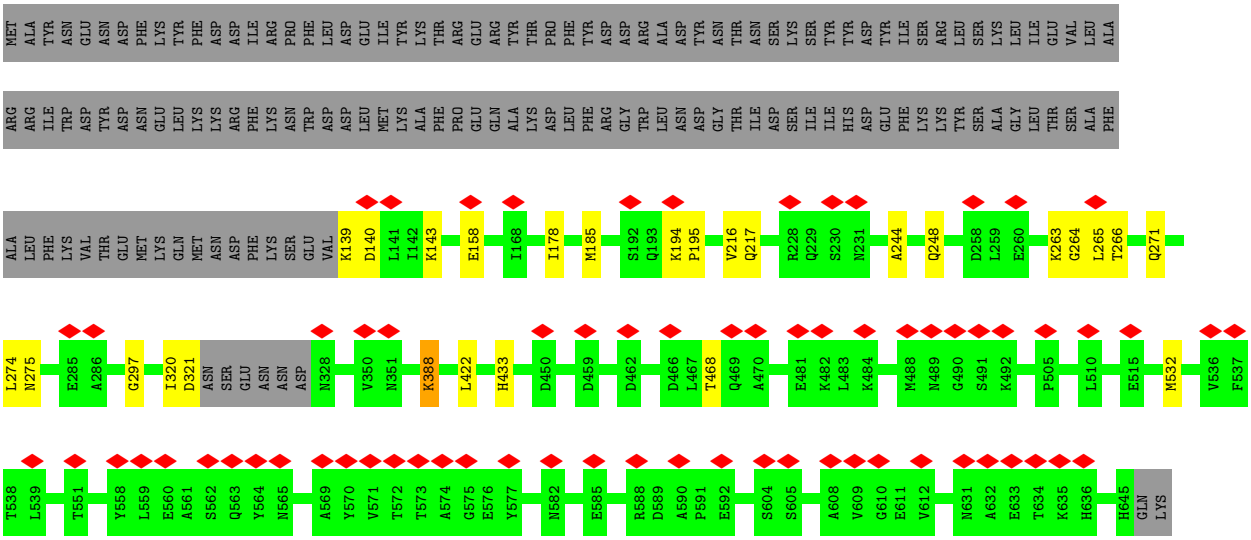
Chain F2:





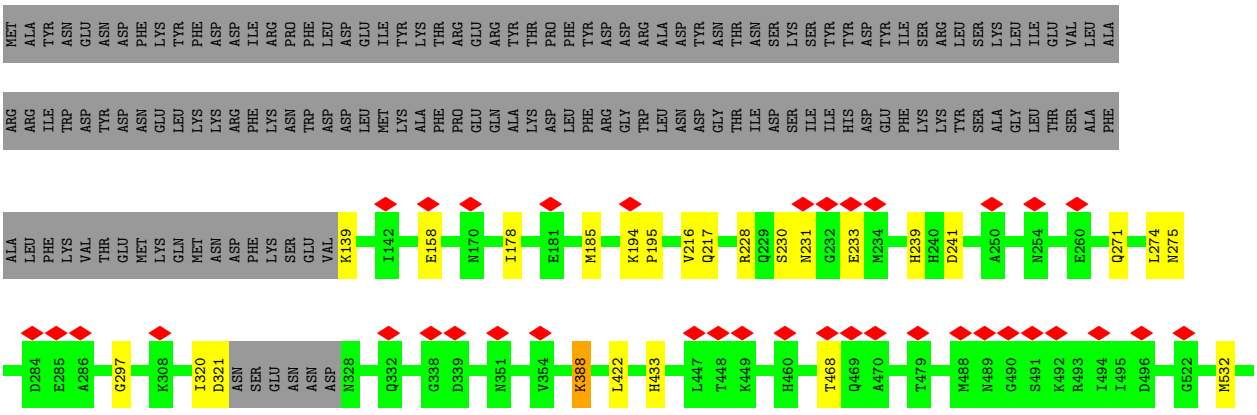
• Molecule 5: Minor structural protein

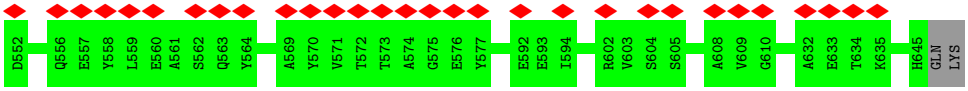
Chain C2:



• Molecule 5: Minor structural protein

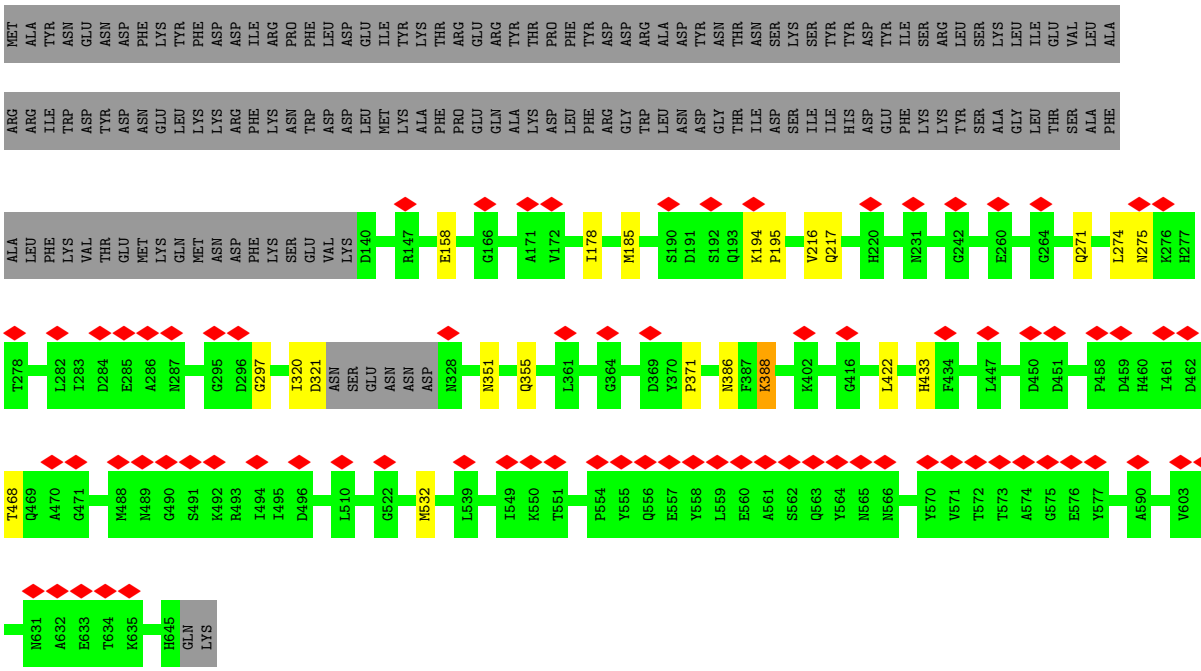
Chain N2:





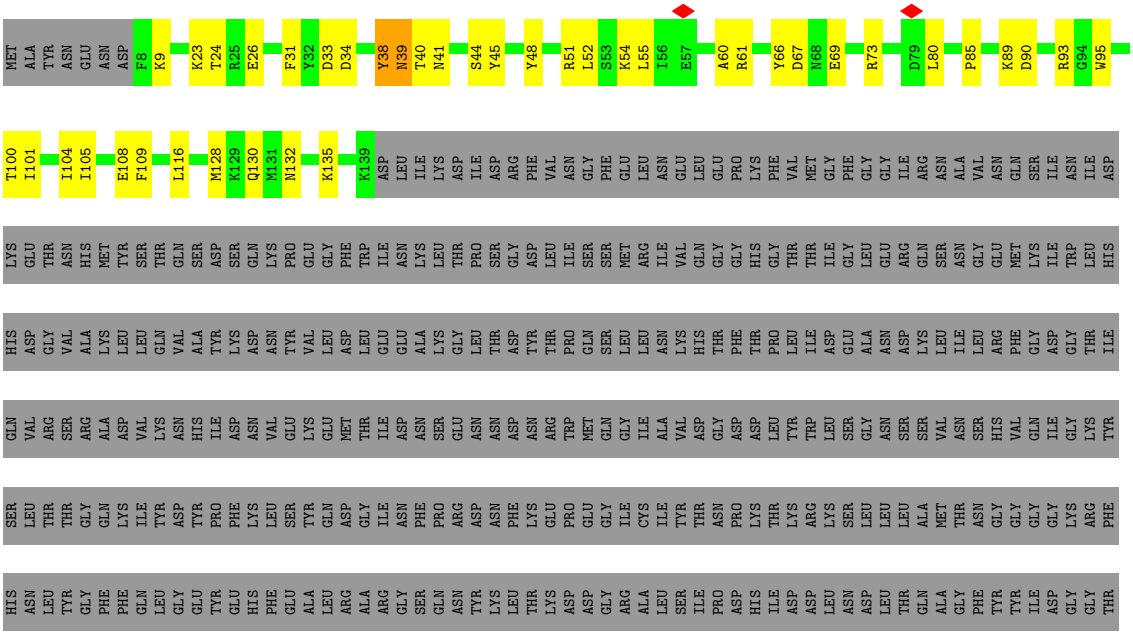
• Molecule 5: Minor structural protein

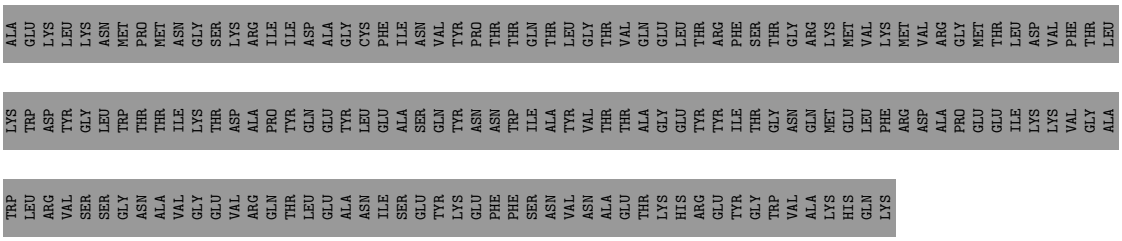
Chain O2:



• Molecule 5: Minor structural protein

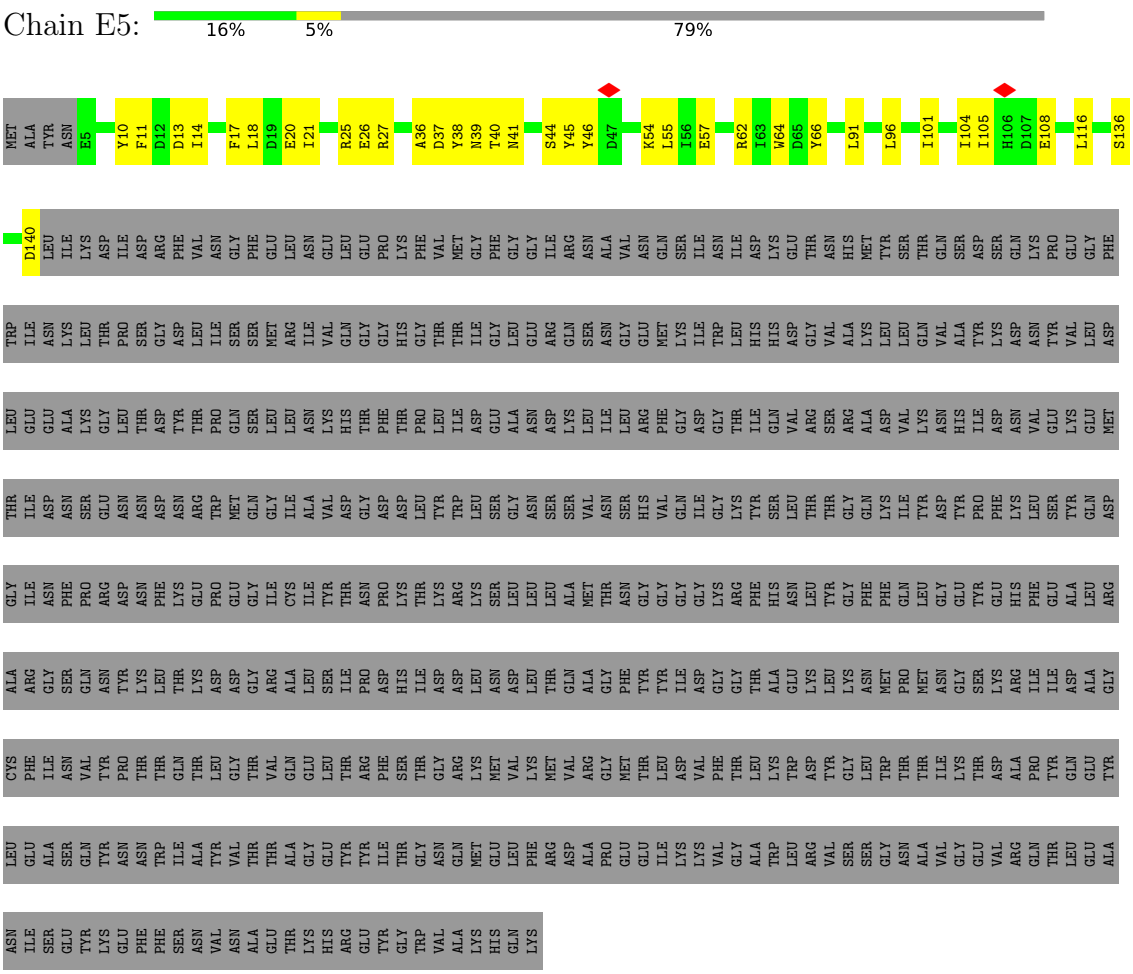
Chain D5:





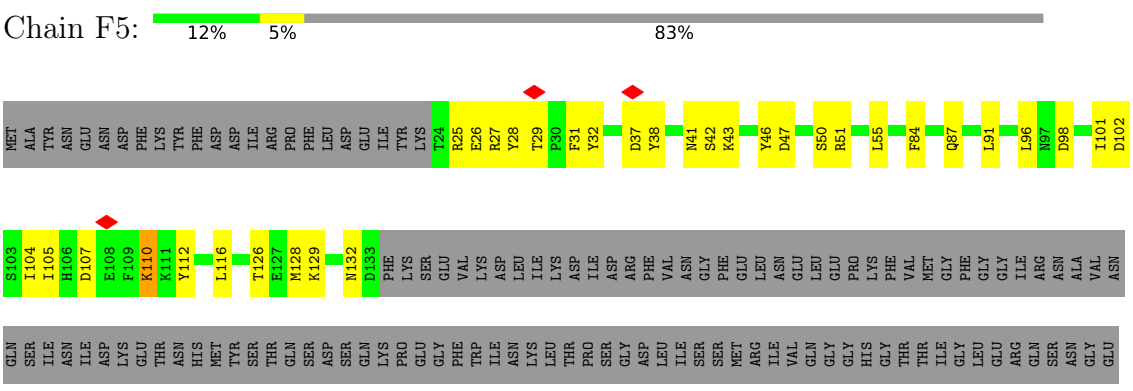
• Molecule 5: Minor structural protein

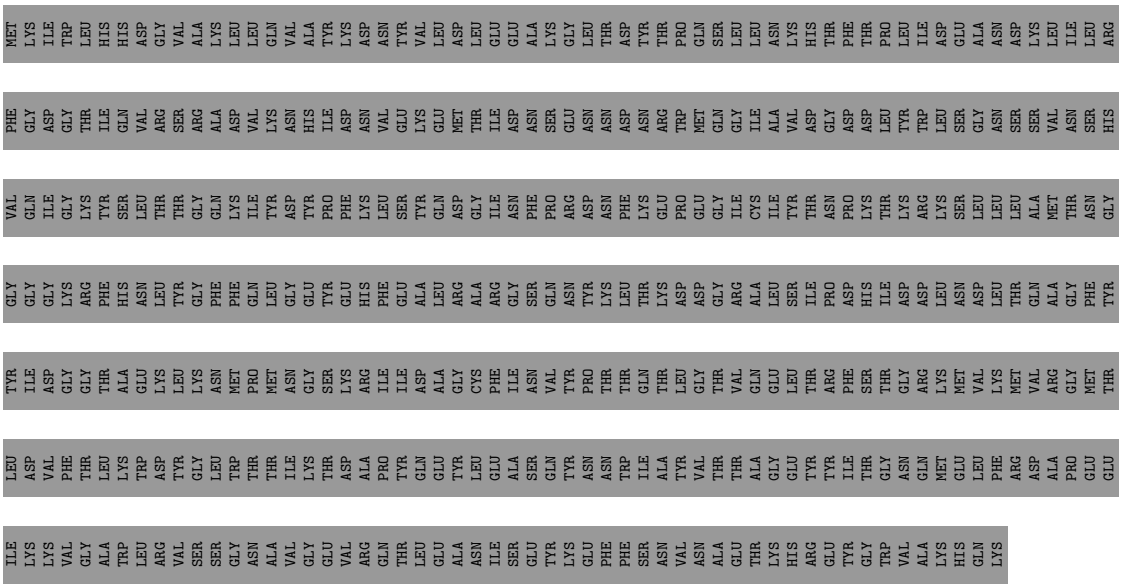
Chain E5:



• Molecule 5: Minor structural protein

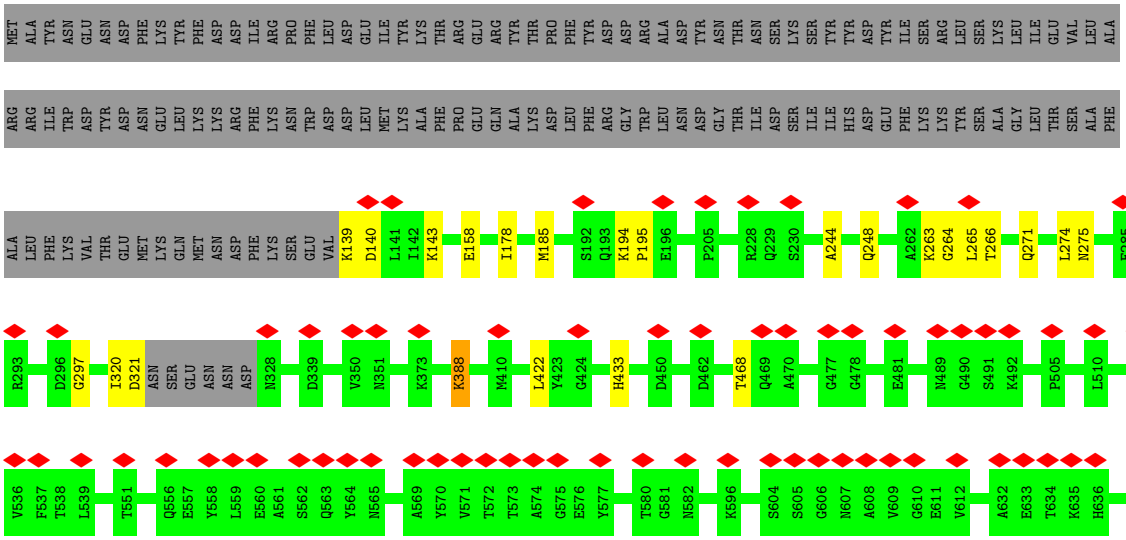
Chain F5:





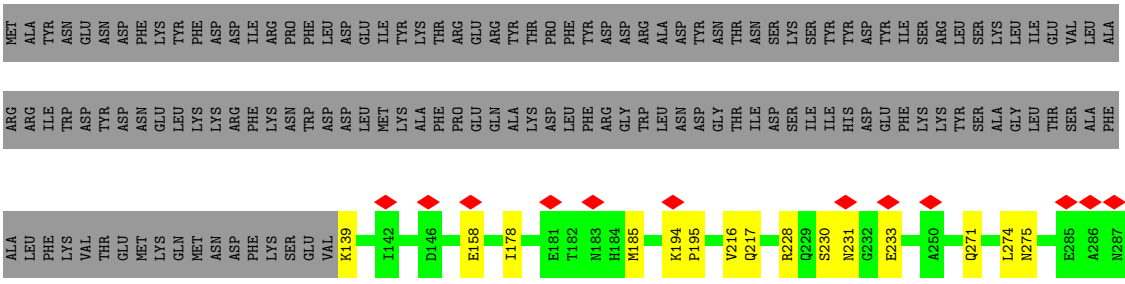
• Molecule 5: Minor structural protein

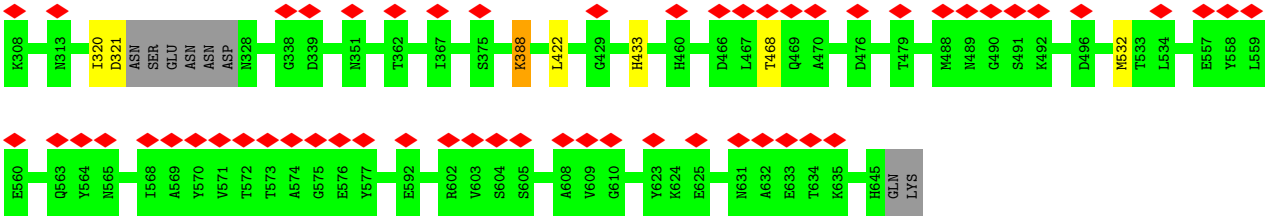
Chain C5:



• Molecule 5: Minor structural protein

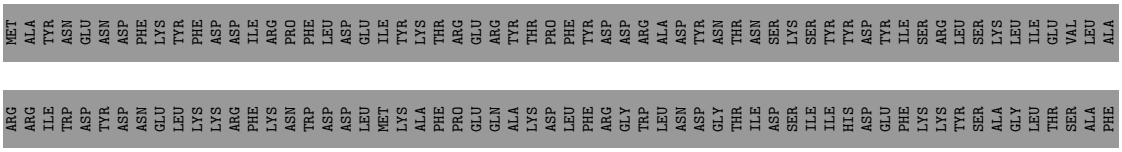
Chain N5:

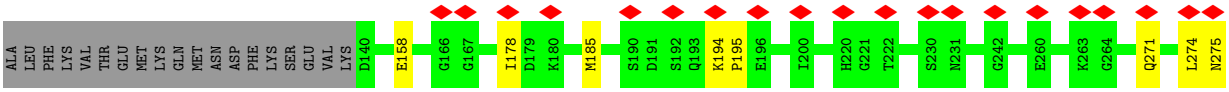


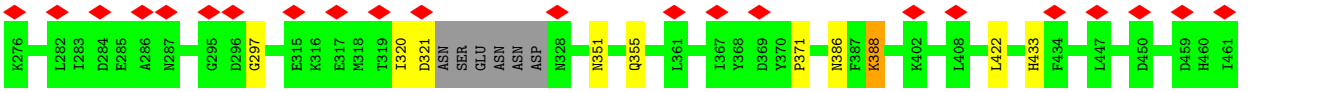


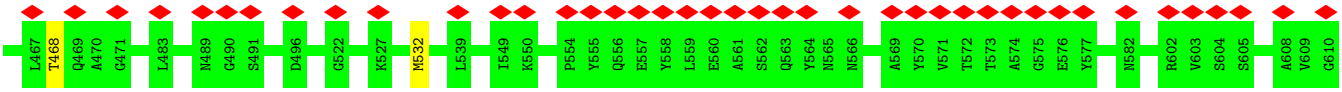
• Molecule 5: Minor structural protein

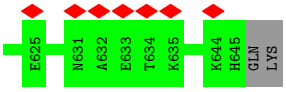
Chain O5:





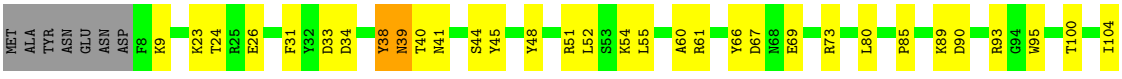


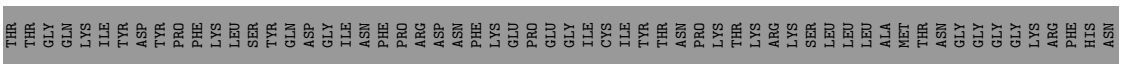


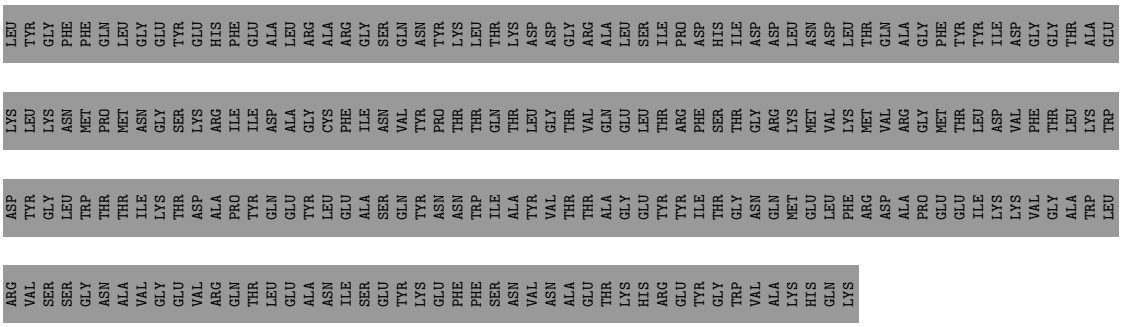


• Molecule 5: Minor structural protein

Chain D9:







• Molecule 5: Minor structural protein

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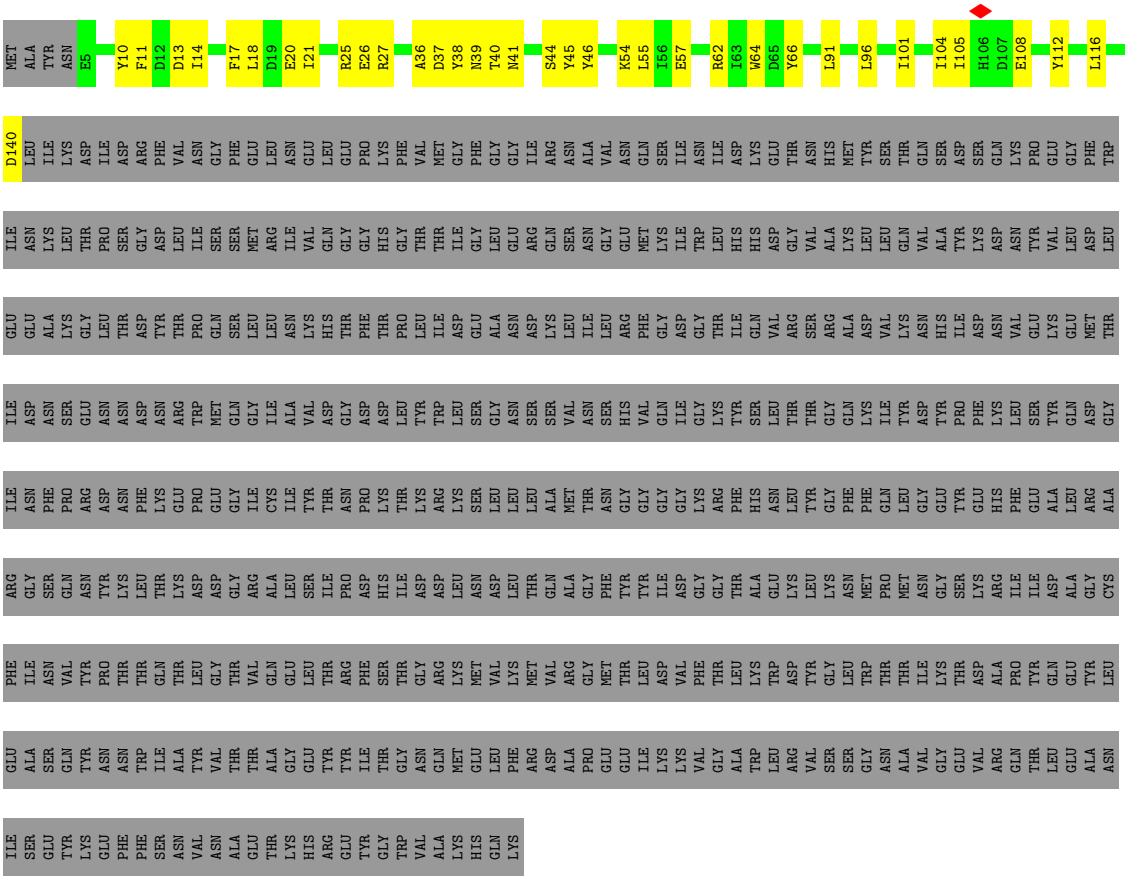

• Molecule 5: Minor structural protein

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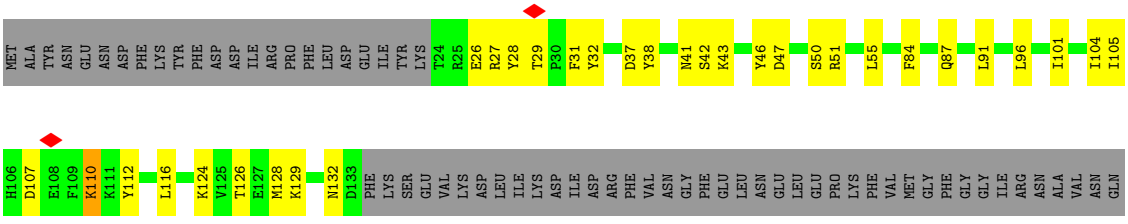
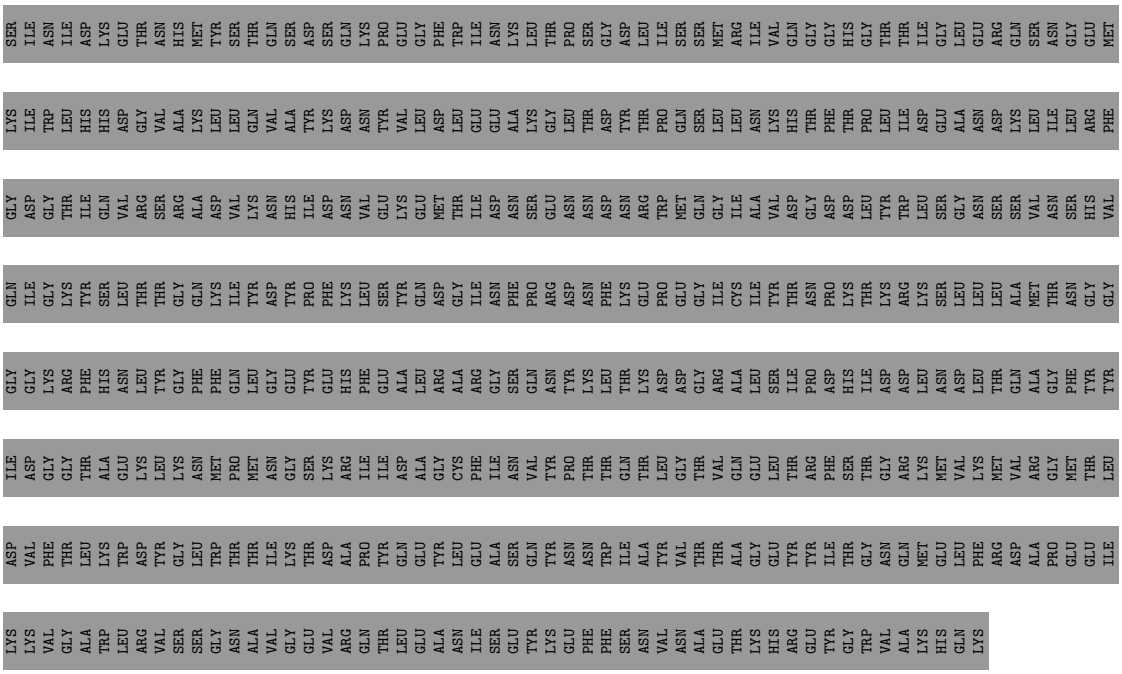
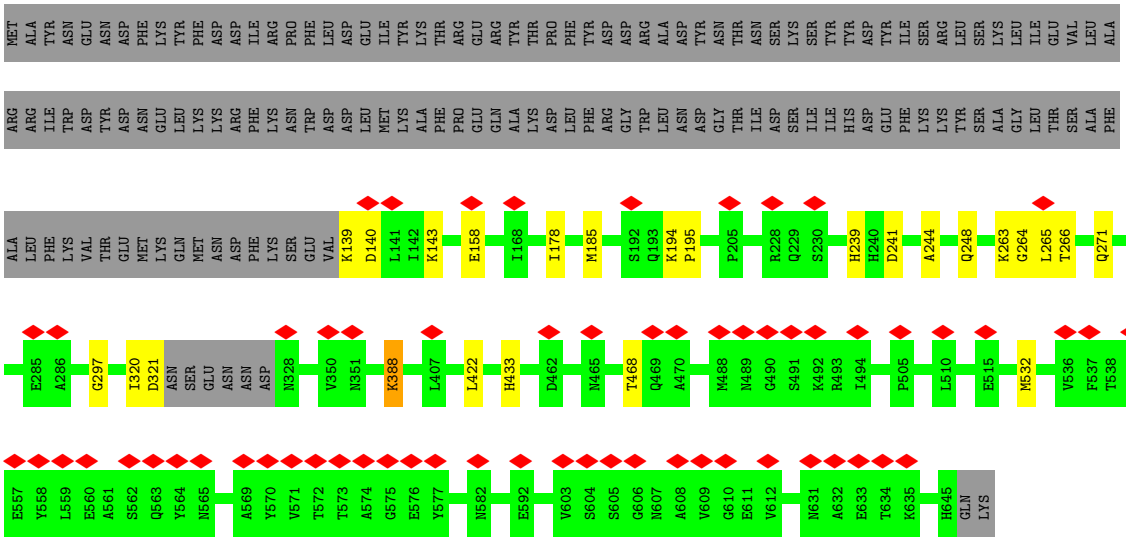




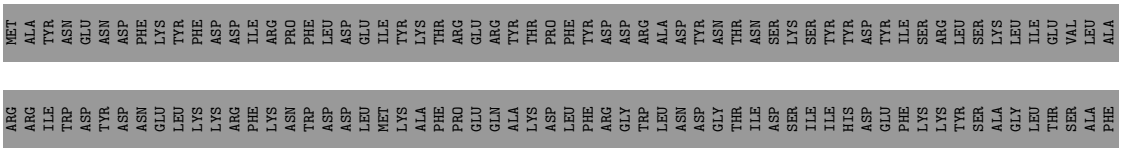
• Molecule 5: Minor structural protein

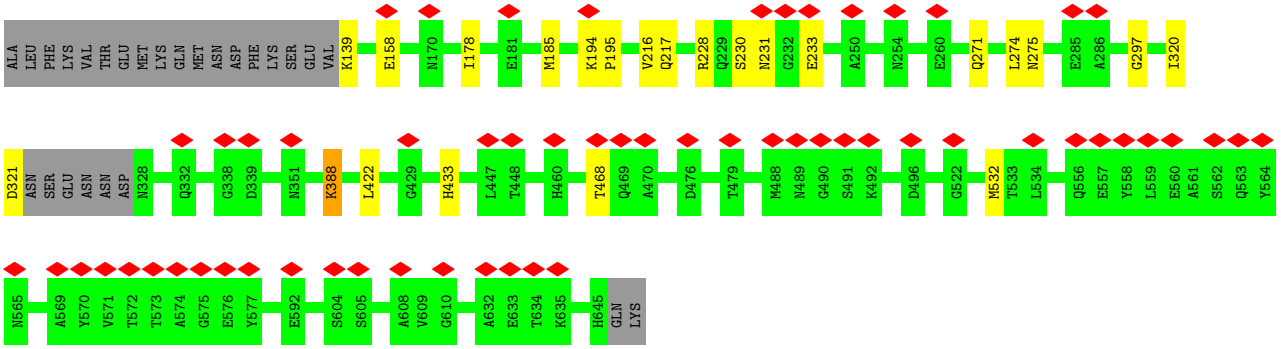
Chain C9:



• Molecule 5: Minor structural protein

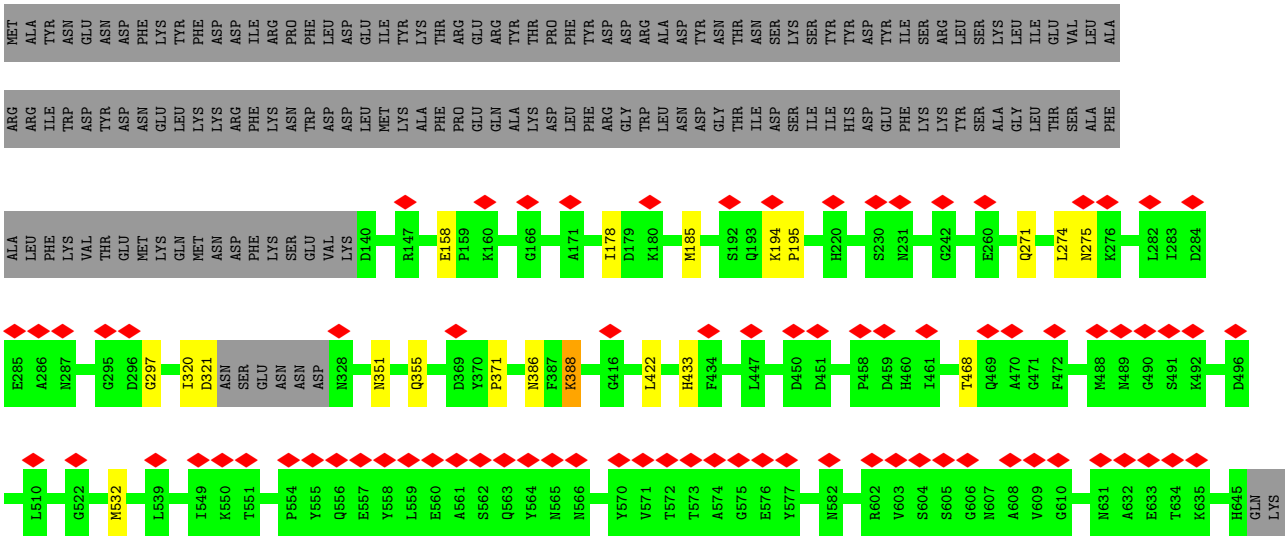
Chain N9:





• Molecule 5: Minor structural protein

Chain O9:



• Molecule 5: Minor structural protein

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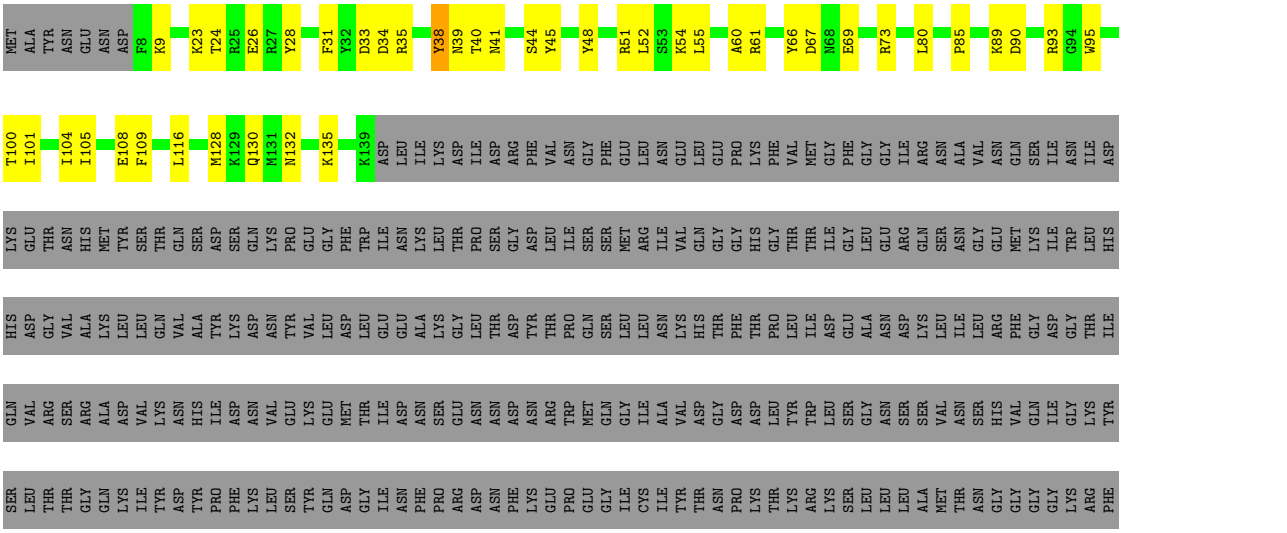

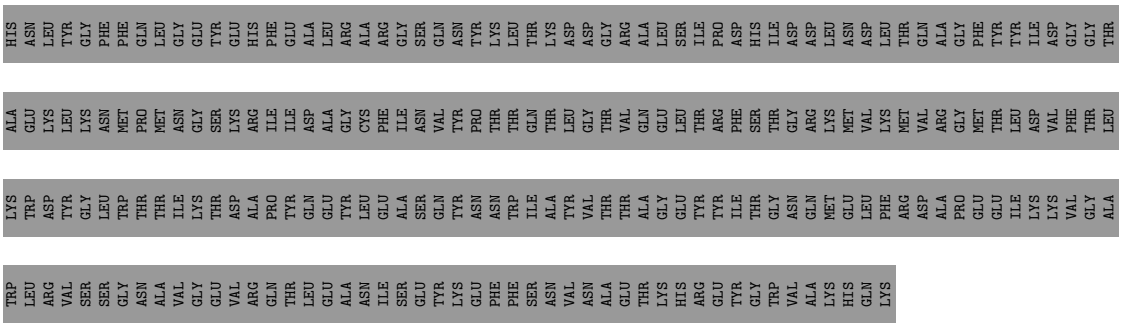

• Molecule 5: Minor structural protein

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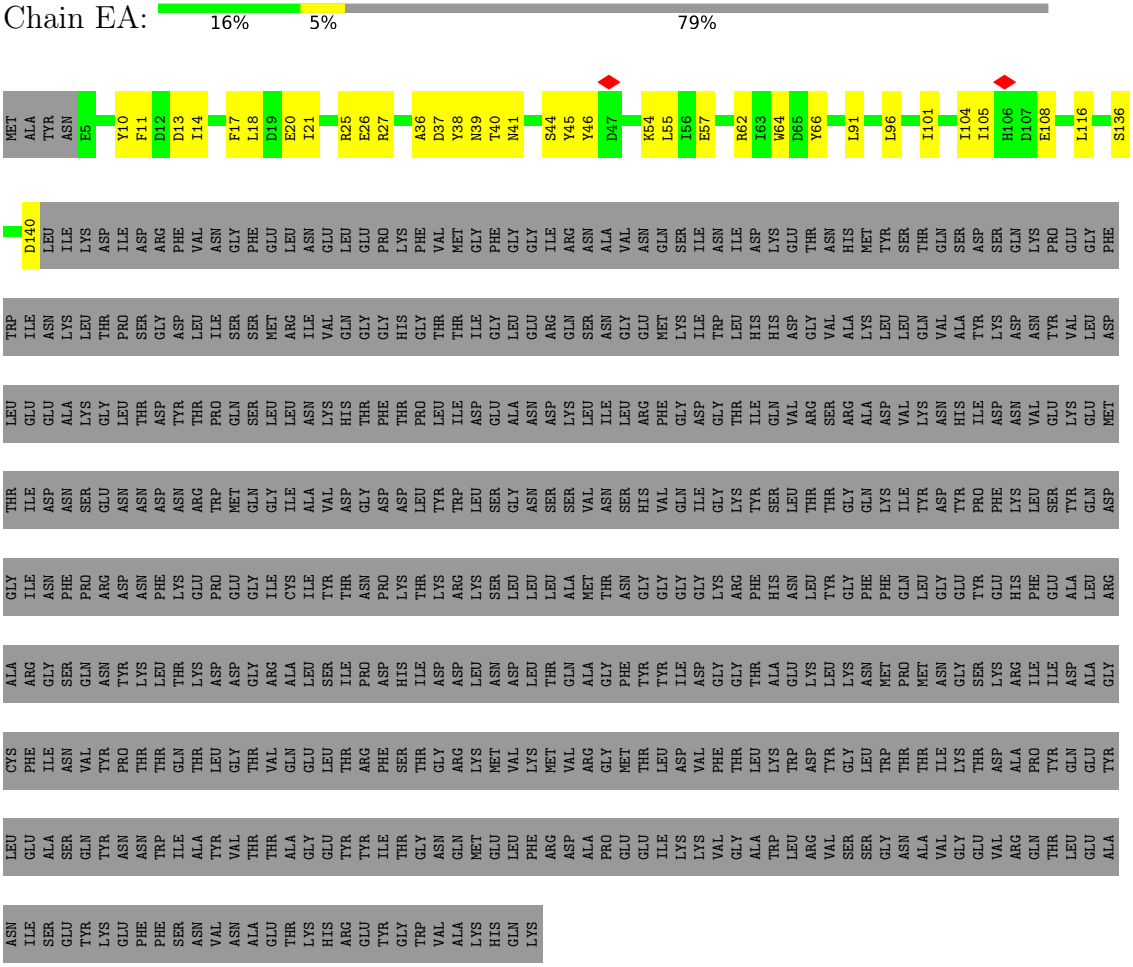

• Molecule 5: Minor structural protein

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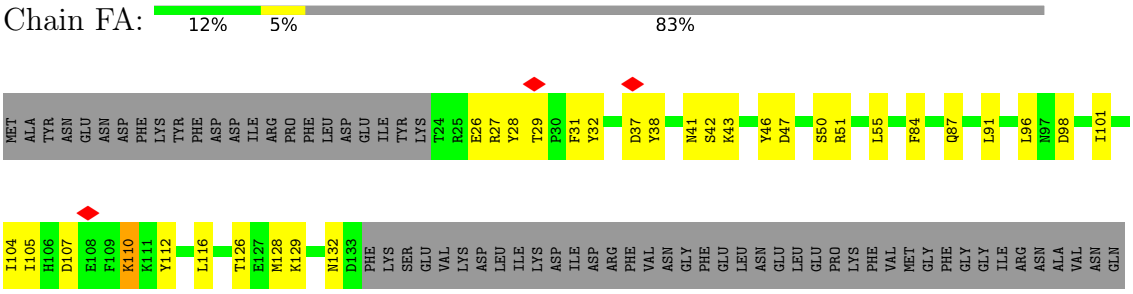

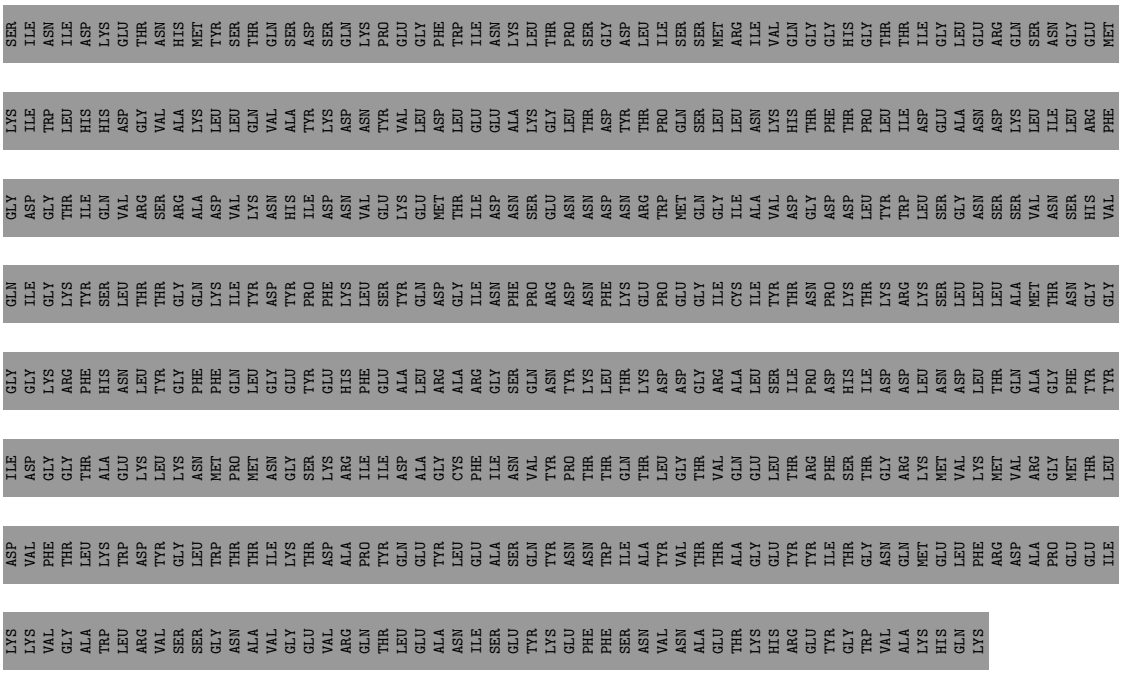

• Molecule 5: Minor structural protein

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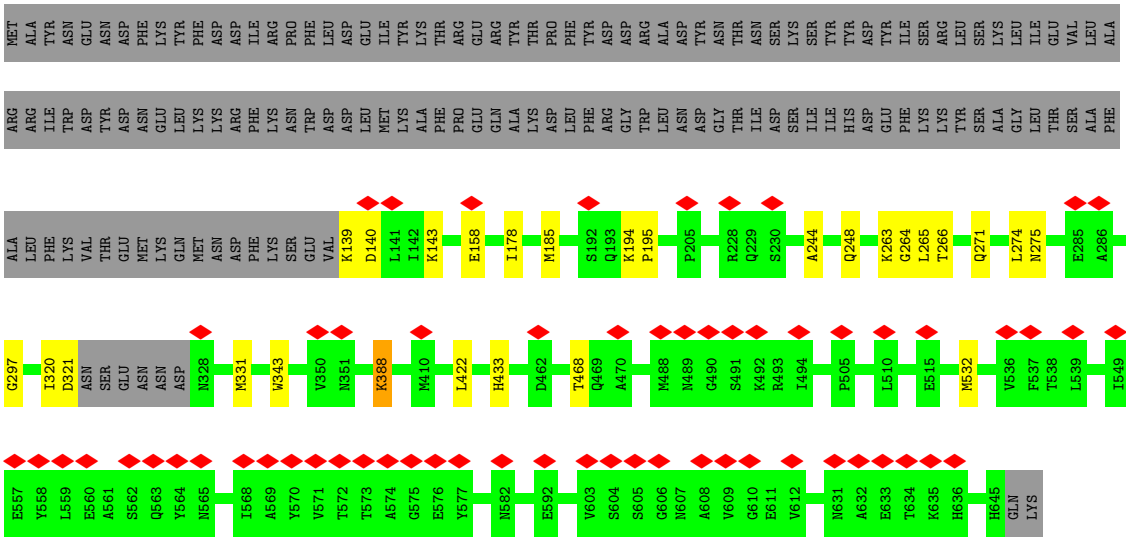

• Molecule 5: Minor structural protein

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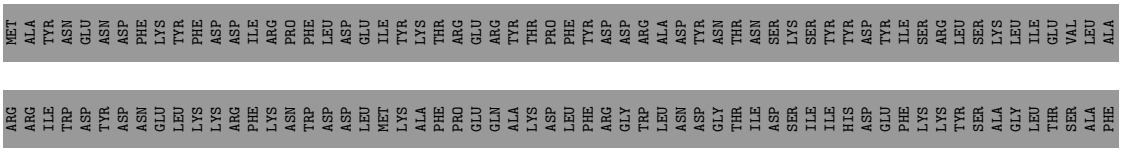
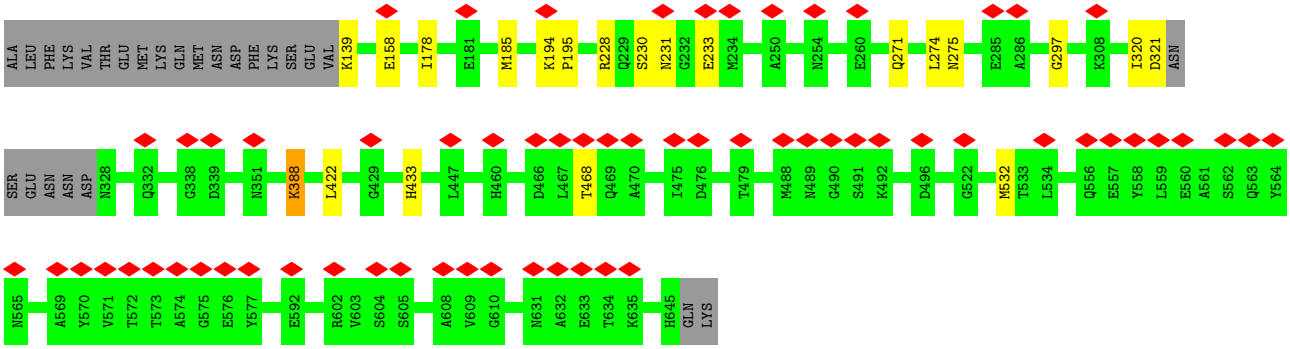
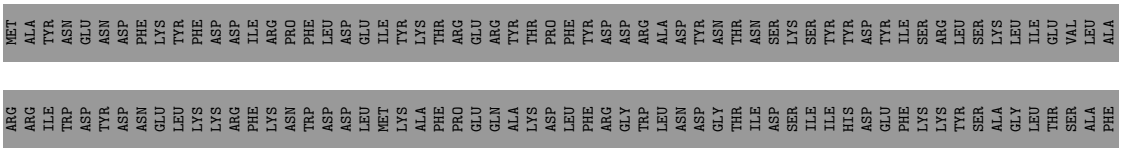
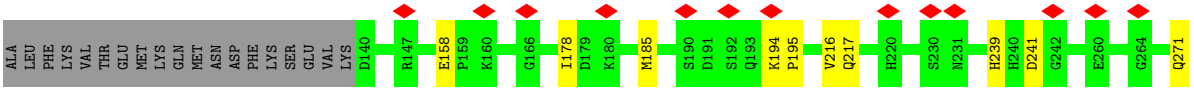


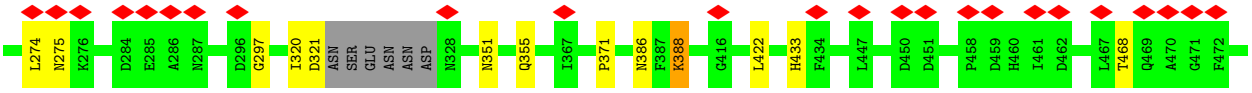


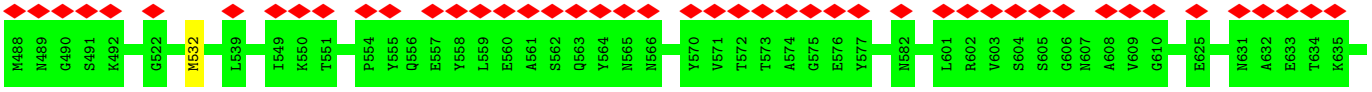
• Molecule 5: Minor structural protein

Chain OA:









• Molecule 5: Minor structural protein

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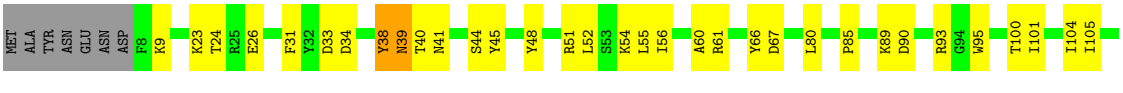

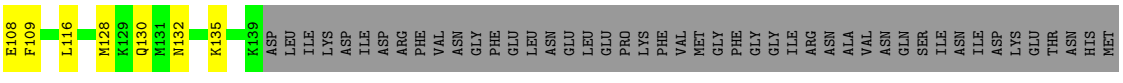

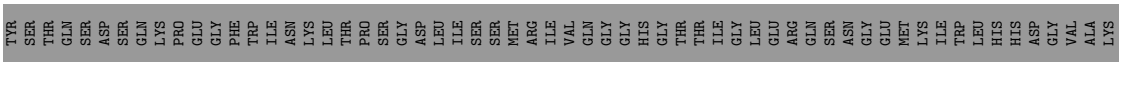

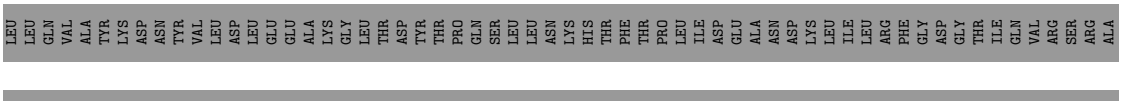

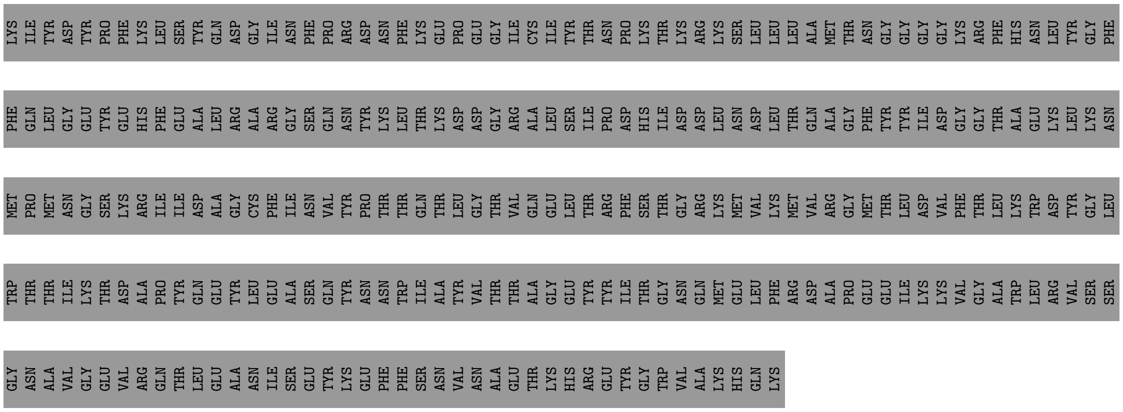

- Molecule 5: Minor structural protein

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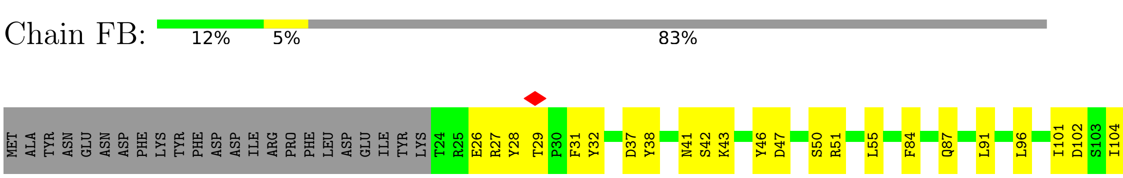
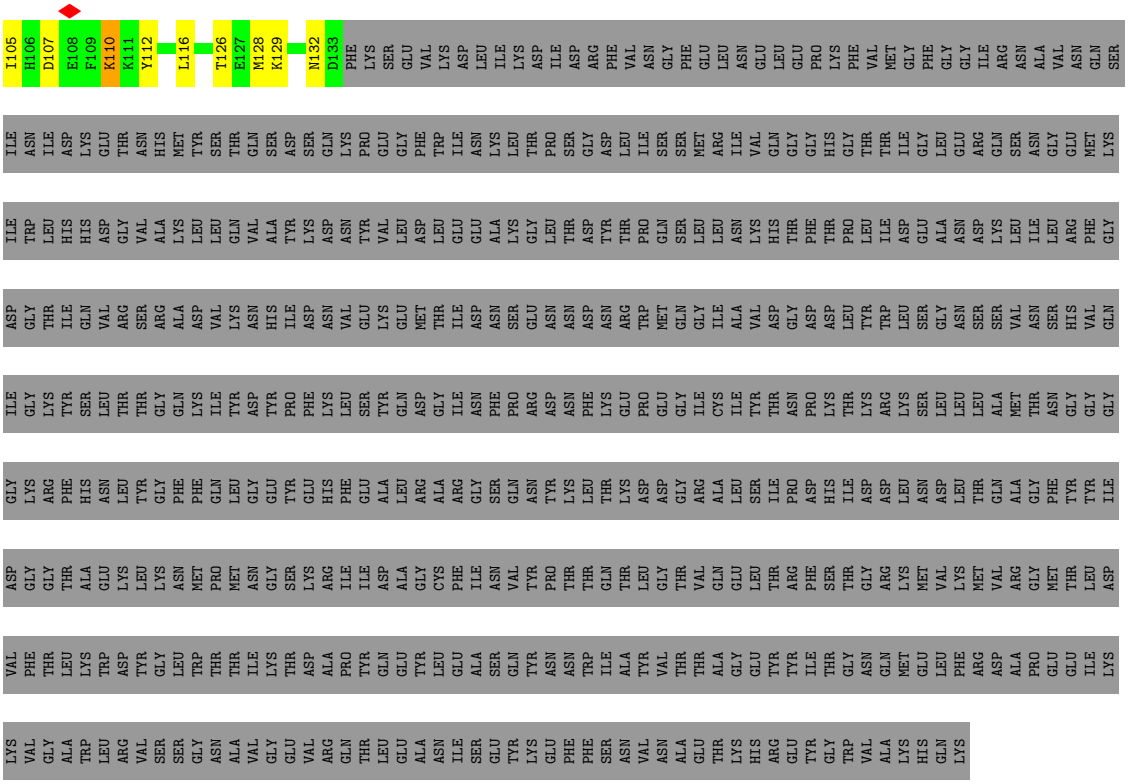
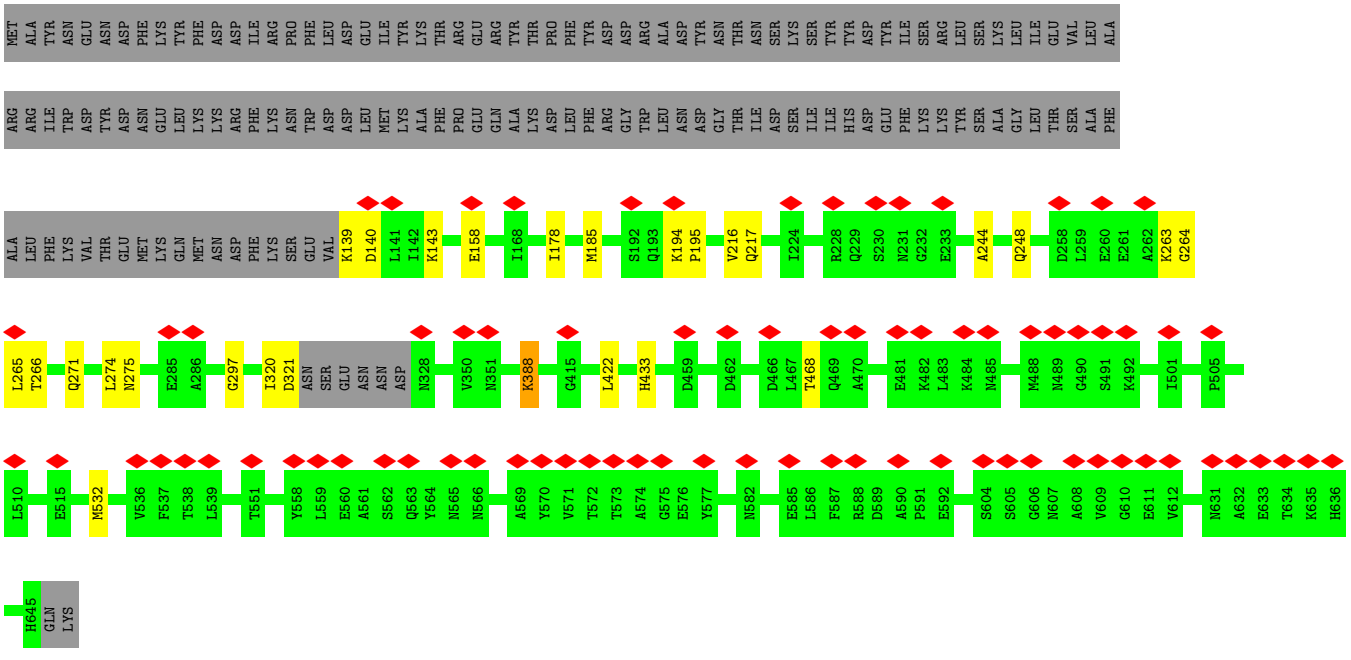




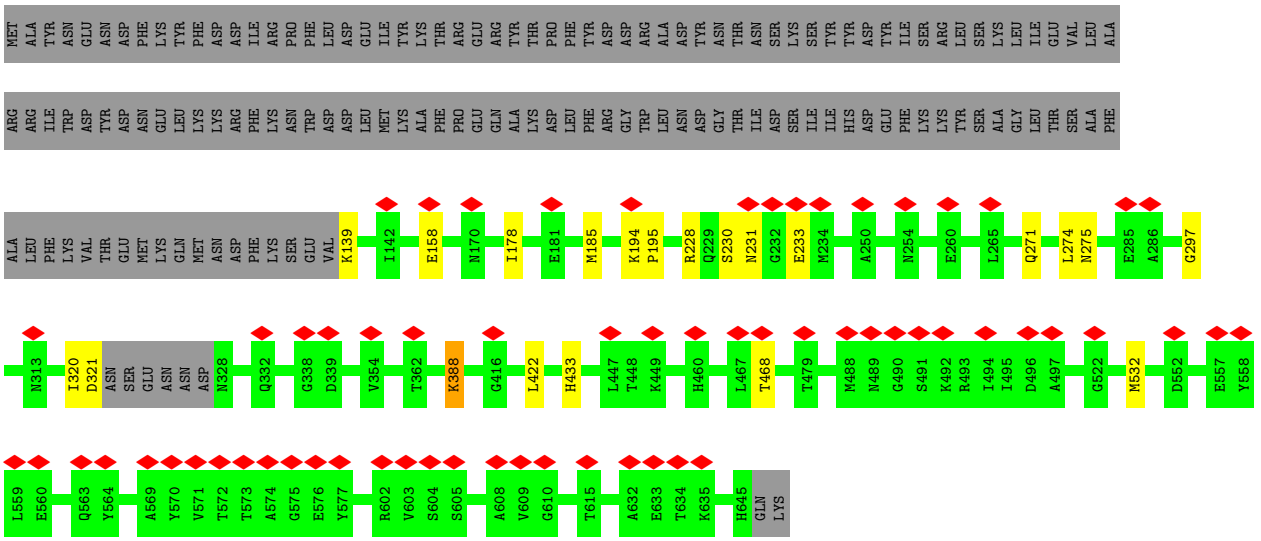
• Molecule 5: Minor structural protein

Chain CB:



• Molecule 5: Minor structural protein

Chain NB:



• Molecule 5: Minor structural protein

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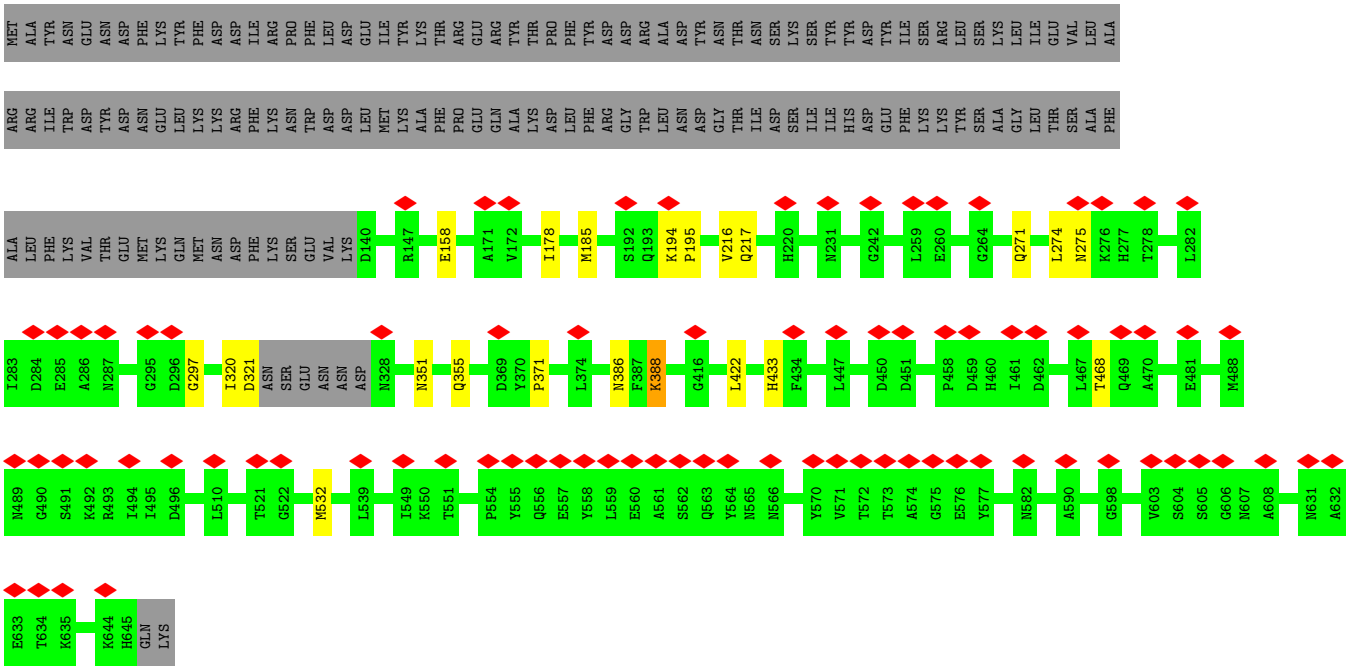

• Molecule 5: Minor structural protein

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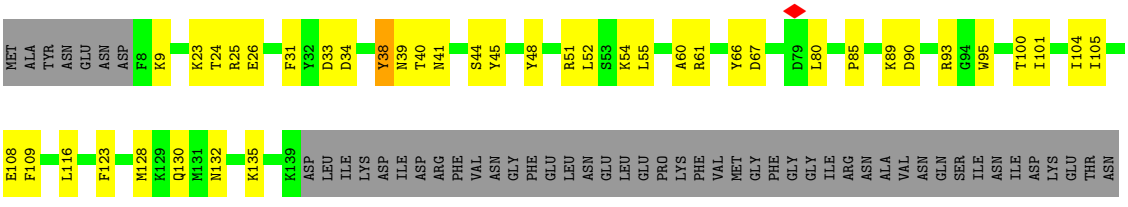

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ALA LYS LEU LEU GLN VAL ALA TYR LYS ASP ASN TYR VAL LEU ASP LEU GLU GLU ALA LYS GLY LEU THR ASP TYR THR PRO GLN SER LEU LEU ASN LYS HIS THR PHE THR PRO LEU ILE ASP GLU ALA ASN ASP LYS LEU ILE LEU ARG PHE GLY ASP GLY THR ILE GLN VAL ARG SER

ARG ALA ASP VAL LYS ASN HIS ILE ASP ASN VAL GLU LYS GLU MET THR ILE ASP ASN SER GLU ASN ASN ASP ASN ARG TRP MET GLN GLY ILE ALA VAL ASP GLY ASP ASP LEU TYR TRP LEU SER GLY ASN SER SER VAL ASN SER HIS VAL GLN ILE GLY LYS TYR SER LEU THR THR

GLY GLN LYS ILE TYR ASP TYR PRO PHE LYS LEU SER TYR GLN ASP GLY ILE ASN PHE PRO ARG ASP ASN PHE LYS GLU PRO GLU GLY ILE CYS ILE TYR THR ASN PRO LYS THR LYS ARG LYS SER LEU LEU LEU ALA MET THR ASN GLY GLY GLY GLY LYS ARG PHE HIS ASN LEU TYR

GLY PHE PHE GLN LEU GLY GLU TYR GLU HIS PHE GLU ALA LEU ARG ALA ARG GLY SER GLN ASN TYR LYS LEU THR LYS ASP ASP GLY ARG ALA LEU SER ILE PRO ASP HIS ILE ASP ASP LEU ASN ASP LEU THR GLN ALA GLY PHE TYR TYR ILE ASP GLY GLY THR ALA GLU LYS LEU

LYS ASN MET PRO MET ASN GLY SER LYS ARG ILE ILE ASP ALA GLY CYS PHE ILE ASN VAL TYR PRO THR THR GLN THR LEU GLY THR VAL GLN GLU LEU THR ARG PHE SER THR GLY ARG LYS MET VAL LYS MET VAL ARG GLY MET THR LEU ASP VAL PHE THR LEU LYS TRP ASP TYR

GLY LEU TRP THR THR ILE LYS THR ASP ALA PRO TYR GLN GLU TYR LEU GLU ALA SER GLN TYR ASN ASN TRP ILE ALA TYR VAL THR THR ALA GLY GLU TYR TYR ILE THR GLY ASN GLN MET GLU LEU PHE ARG ASP ALA PRO GLU GLU ILE LYS LYS VAL GLY ALA TRP LEU ARG VAL

SER SER GLY ASN ALA VAL GLY GLU VAL ARG GLN THR LEU GLU ALA ASN ILE SER GLU TYR LYS GLU PHE PHE SER ASN VAL ASN ALA GLU THR LYS HIS ARG GLU TYR GLY TRP VAL ALA LYS HIS GLN LYS

• Molecule 5: Minor structural protein

Chain EC: 16% 5% 79%

MET ALA TYR ASN E5 Y10 F11 D12 D13 I14 F17 L18 D19 E20 I21 R25 E26 R27 A36 D37 Y38 N39 T40 N41 S44 Y45 Y46 D47 L55 I56 E57 R62 I63 W64 D65 Y66 L91 L96 I101 I104 I105 H106 D107 E108 L116 S136

D140 LEU ILE LYS ASP ILE ASP ARG PHE VAL ASN GLY PHE GLU LEU ASN GLU LEU GLU PRO LYS PHE VAL MET GLY PHE GLY GLY ILE ARG ASN ALA VAL ASN GLN SER ILE ASN ILE ASP LYS GLU THR ASN HIS MET TYR SER THR GLN SER ASP SER GLN LYS PRO GLU GLY PHE TRP

ILE ASN LYS LEU THR PRO SER GLY ASP LEU ILE SER SER MET ARG ILE VAL GLN GLY GLY HIS GLY THR THR ILE GLY LEU GLU ARG GLN SER ASN GLY GLU MET LYS ILE TRP LEU HIS HIS ASP GLY VAL ALA LYS LEU LEU GLN VAL ALA TYR LYS ASP ASN TYR VAL LEU ASP LEU

GLU GLU ALA LYS GLY LEU THR ASP TYR THR PRO GLN SER LEU LEU ASN LYS HIS THR PHE THR PRO LEU ILE ASP GLU ALA ASN ASP LYS LEU ILE LEU ARG PHE GLY ASP GLY THR ILE GLN VAL ARG SER ARG ALA ASP VAL LYS ASN HIS ILE ASP ASN VAL GLU LYS GLU MET THR

ILE ASP ASN SER GLU ASN ASN ASP ASN ARG TRP MET GLN GLY ILE ALA VAL ASP GLY ASP ASP LEU TYR TRP LEU SER GLY ASN SER SER VAL ASN SER HIS VAL GLN ILE GLY LYS TYR SER LEU THR THR GLY GLN LYS ILE TYR ASP TYR PRO PHE LYS LEU SER TYR GLN ASP GLY

ILE ASN PHE PRO ARG ASP ASN PHE LYS GLU PRO GLU GLY ILE CYS ILE TYR THR ASN PRO LYS THR LYS ARG LYS SER LEU LEU LEU ALA MET THR ASN GLY GLY GLY GLY LYS ARG PHE HIS ASN LEU TYR GLY PHE PHE GLN LEU GLY GLU TYR GLU HIS PHE GLU ALA LEU ARG ALA

ARG GLY SER GLN ASN TYR LYS LEU THR LYS ASP ASP GLY ARG ALA LEU SER ILE PRO ASP HIS ILE ASP ASP LEU ASN ASP LEU THR GLN ALA GLY PHE TYR TYR ILE ASP GLY GLY THR ALA GLU LYS LEU LYS ASN MET PRO MET ASN GLY SER LYS ARG ILE ILE ASP ALA GLY CYS

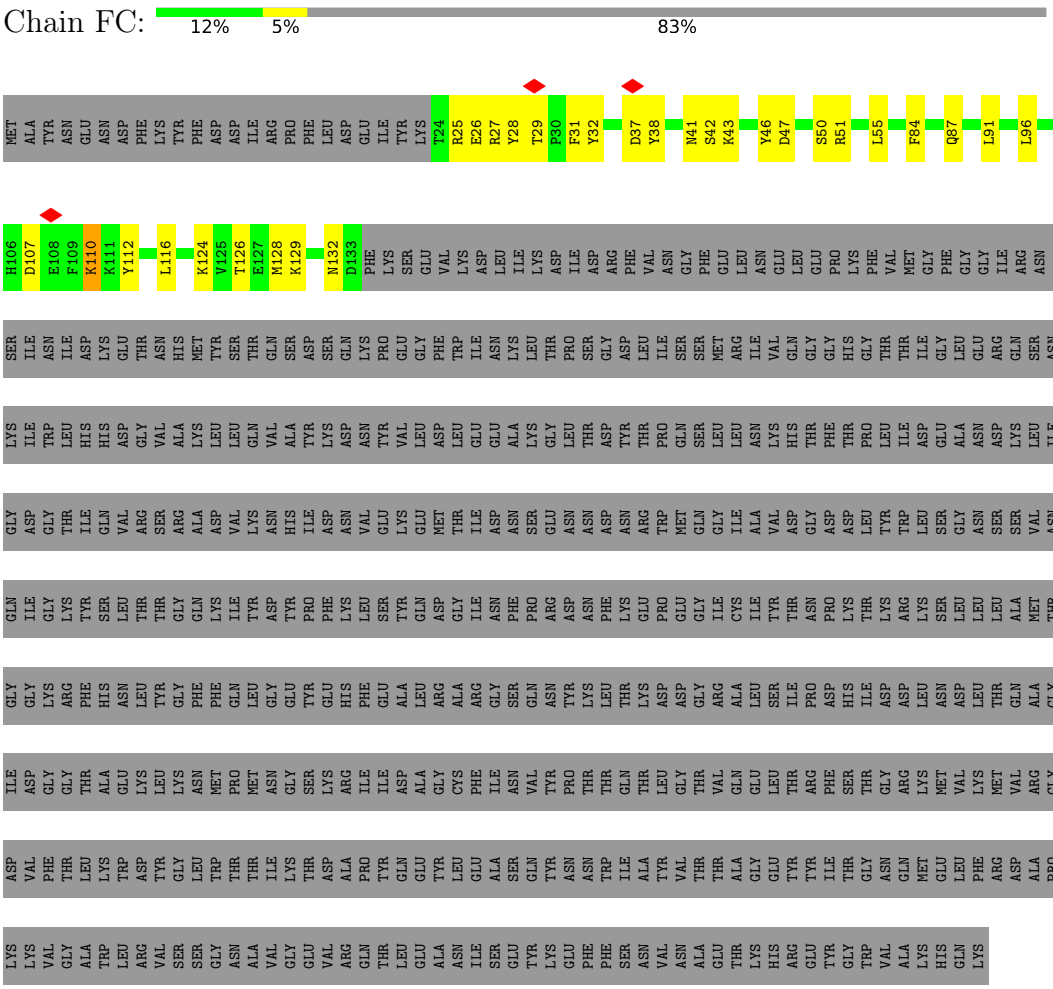
PHE ILE ASN VAL TYR PRO THR THR GLN THR LEU GLY THR VAL GLN GLU LEU THR ARG PHE SER THR GLY ARG LYS MET VAL LYS MET VAL ARG GLY MET THR LEU ASP VAL PHE THR LEU LYS TRP ASP TYR GLY LEU TRP THR THR ILE LYS THR ASP ALA PRO TYR GLN GLU TYR LEU

GLU ALA SER GLN TYR ASN ASN TRP ILE ALA TYR VAL THR THR ALA GLY GLU TYR TYR ILE THR GLY ASN GLN MET GLU LEU PHE ARG ASP ALA PRO GLU GLU ILE LYS LYS VAL GLY ALA TRP LEU ARG VAL SER SER GLY ASN ALA VAL GLY GLU VAL ARG GLN THR LEU GLU ALA ASN

ILE SER GLU TYR LYS GLU PHE PHE SER ASN VAL ASN ALA GLU THR LYS HIS ARG GLU TYR GLY TRP VAL ALA LYS HIS GLN LYS

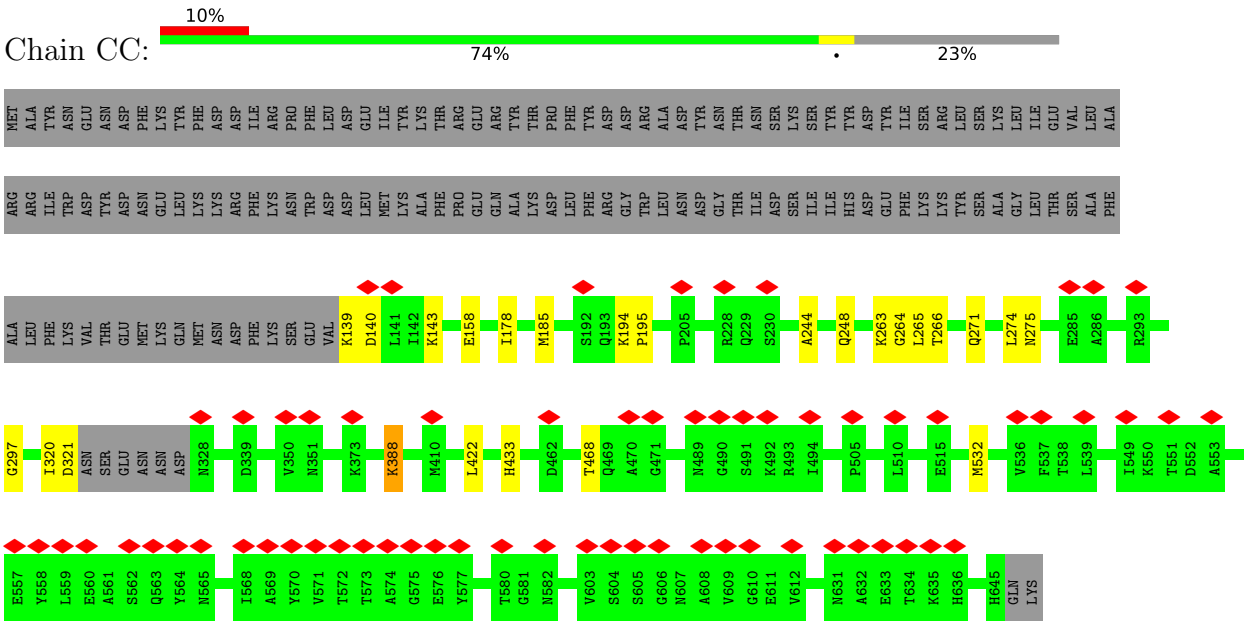
• Molecule 5: Minor structural protein

Chain FC:



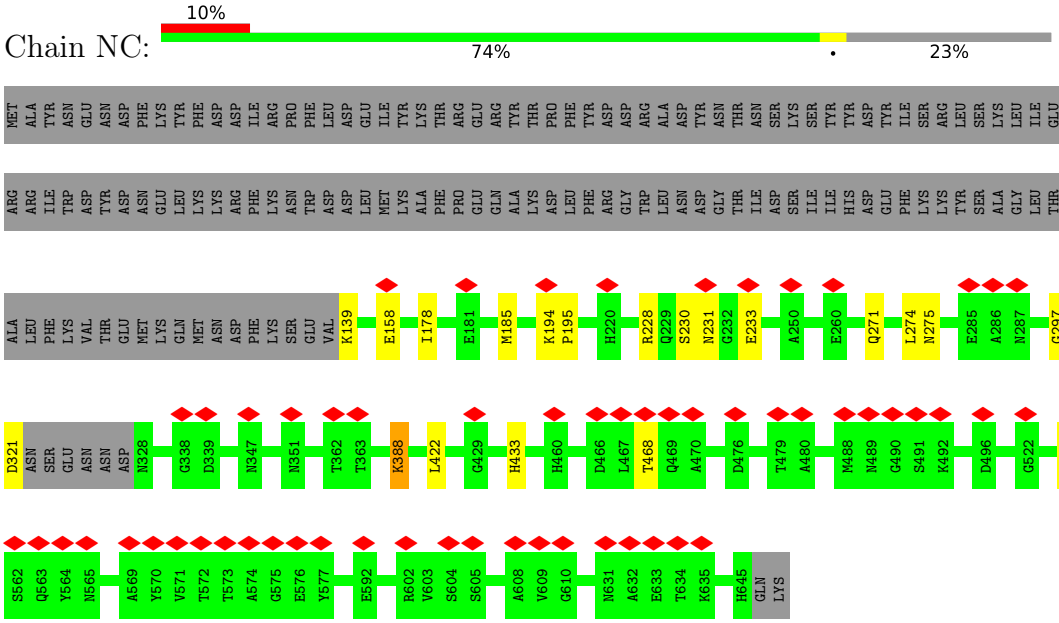
• Molecule 5: Minor structural protein

Chain CC:



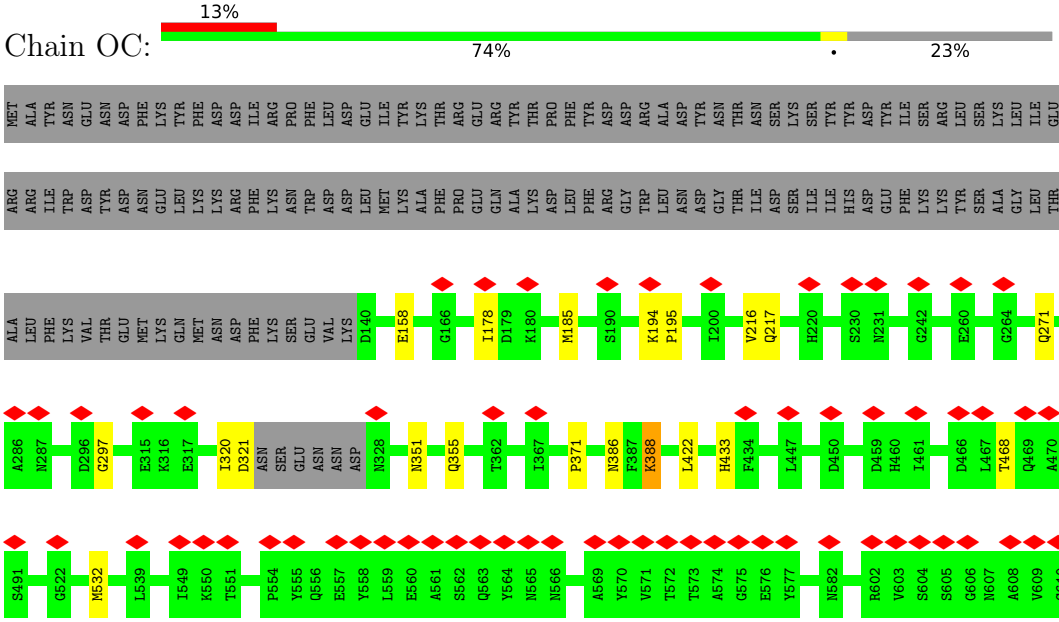
• Molecule 5: Minor structural protein

Chain NC:



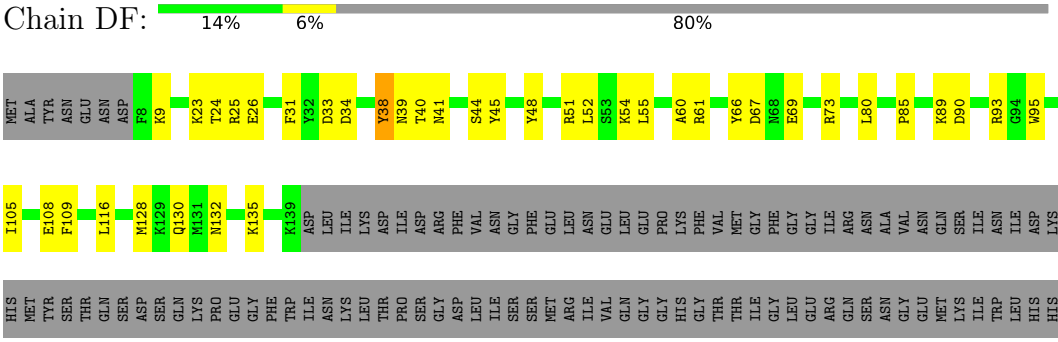
• Molecule 5: Minor structural protein

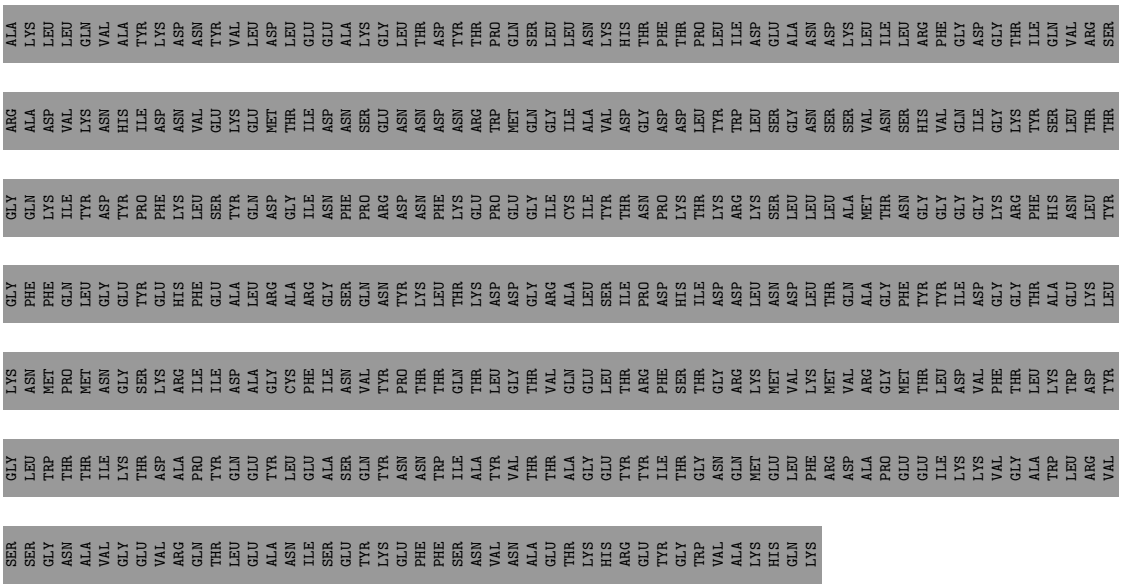
Chain OC:



• Molecule 5: Minor structural protein

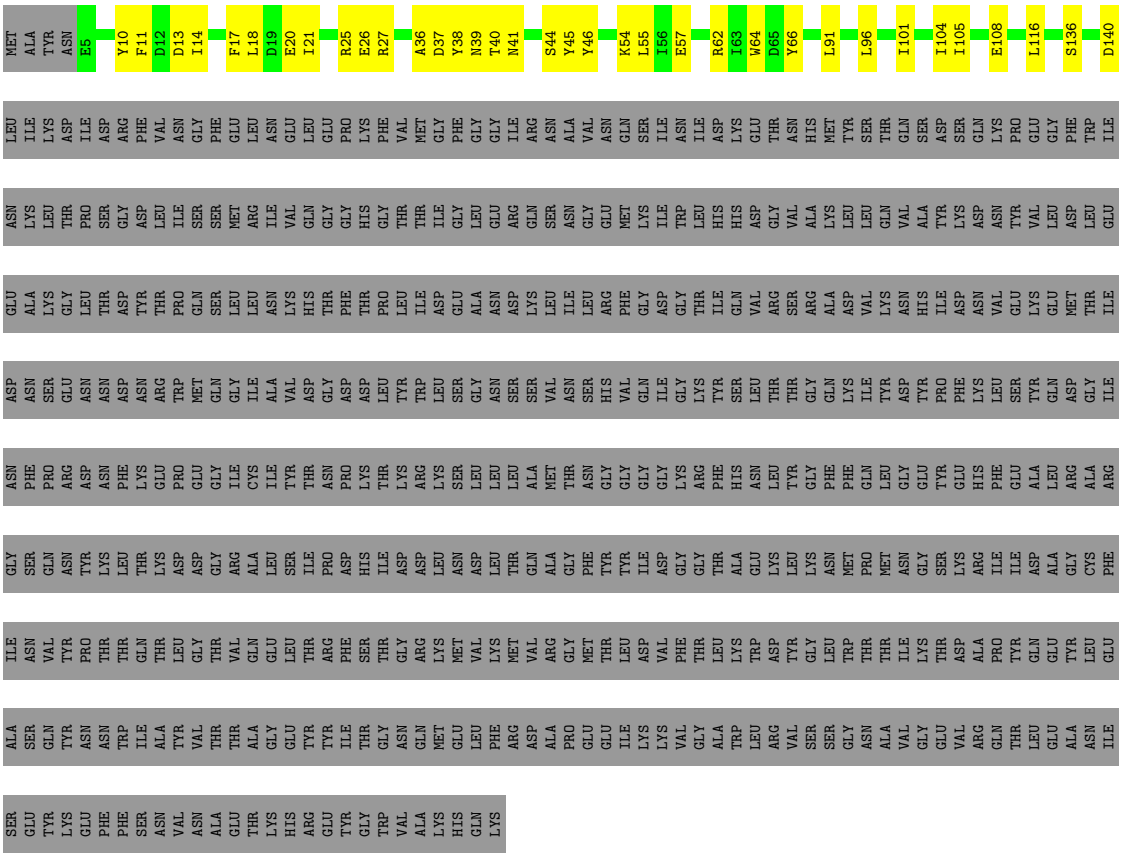
Chain DF:





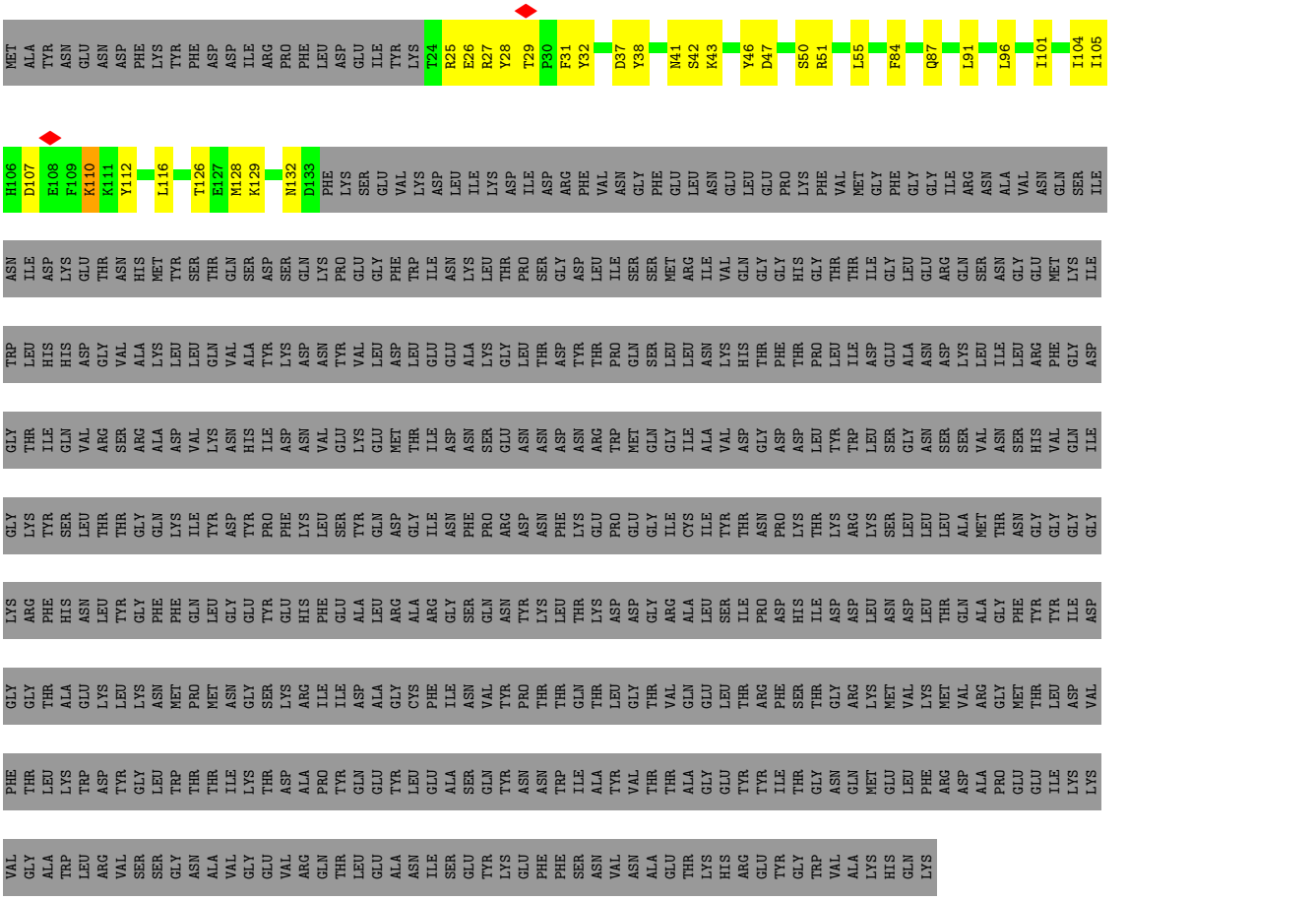
• Molecule 5: Minor structural protein

Chain EF:



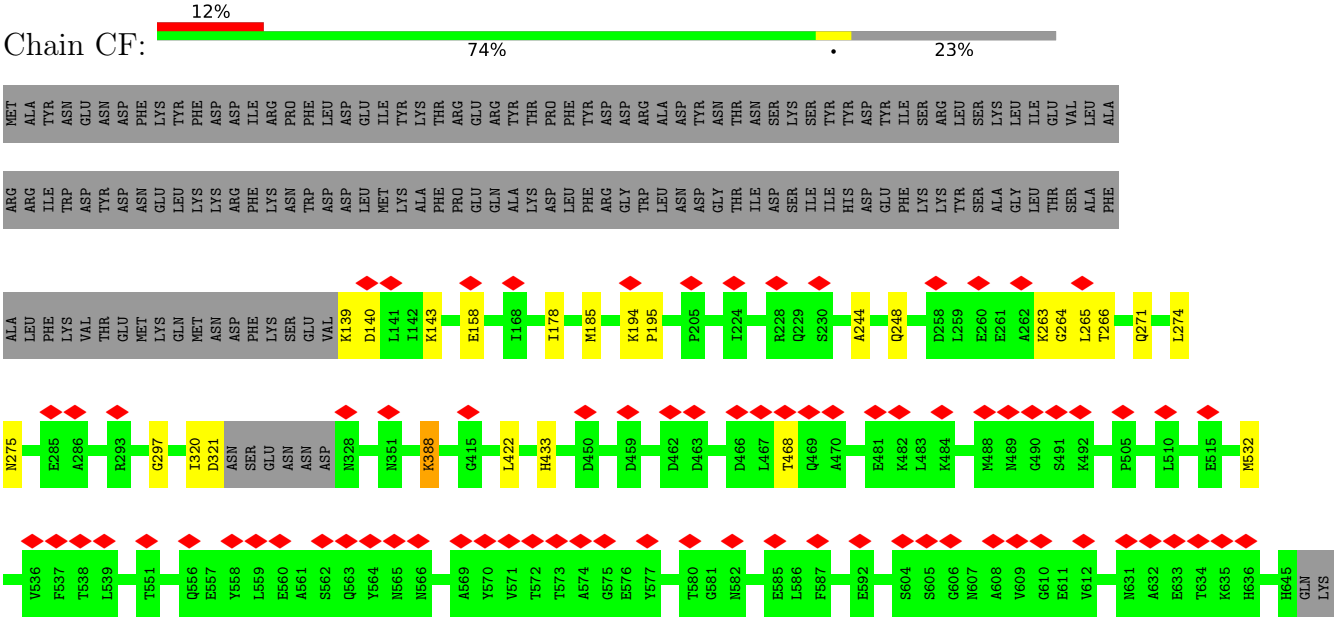
• Molecule 5: Minor structural protein

Chain FF:



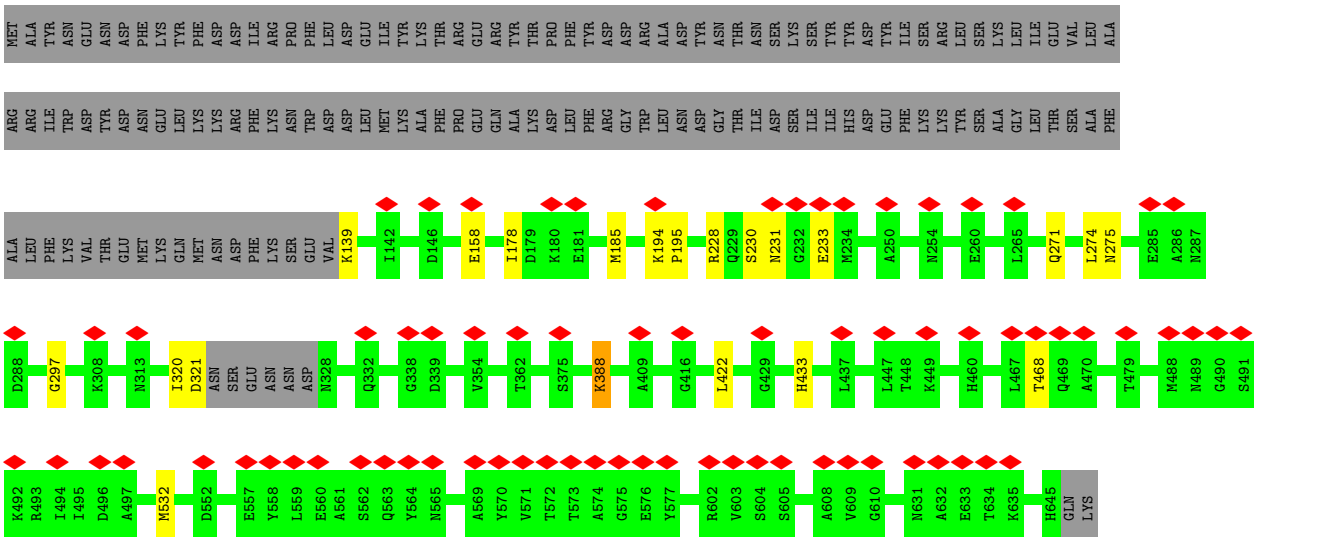
• Molecule 5: Minor structural protein

Chain CF:



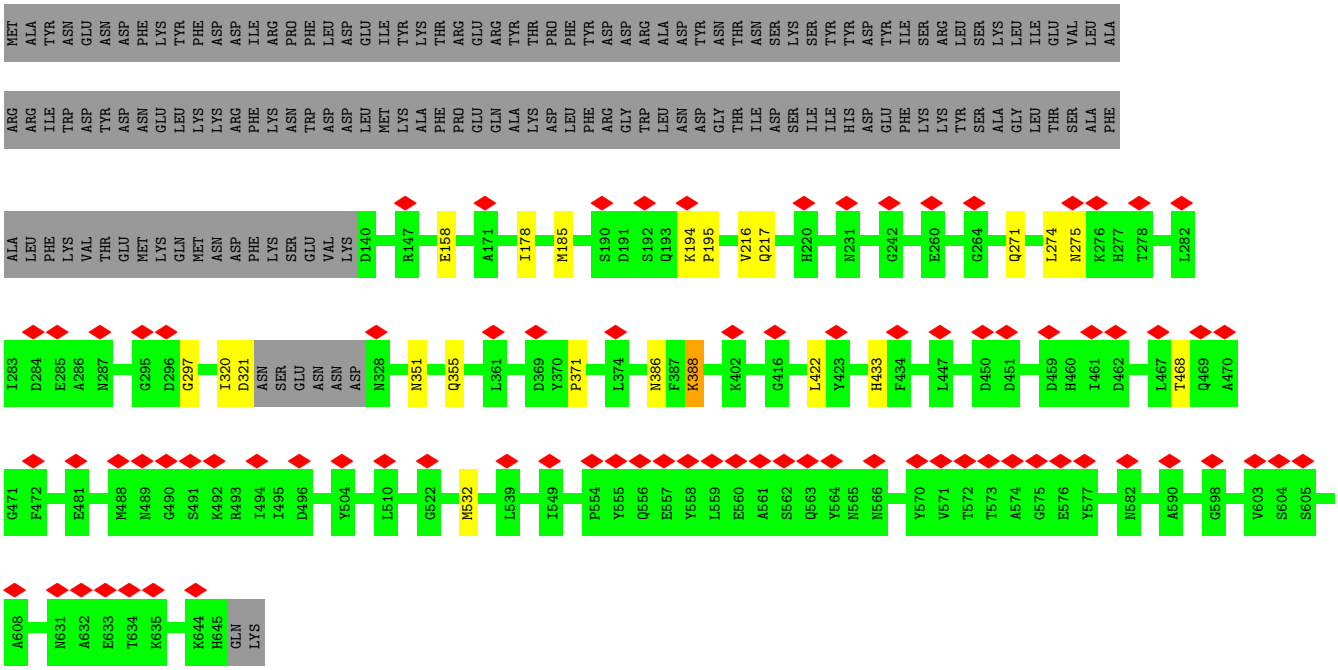
• Molecule 5: Minor structural protein

Chain NF:



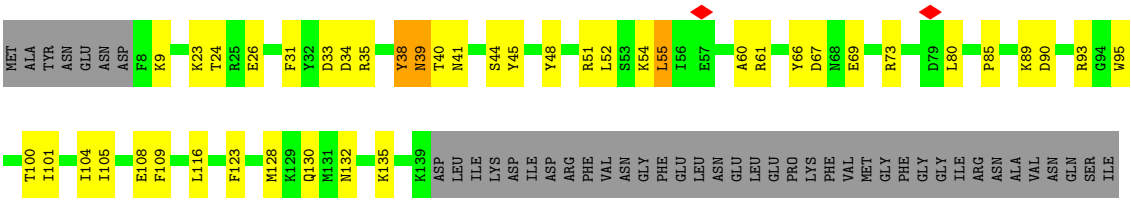
• Molecule 5: Minor structural protein

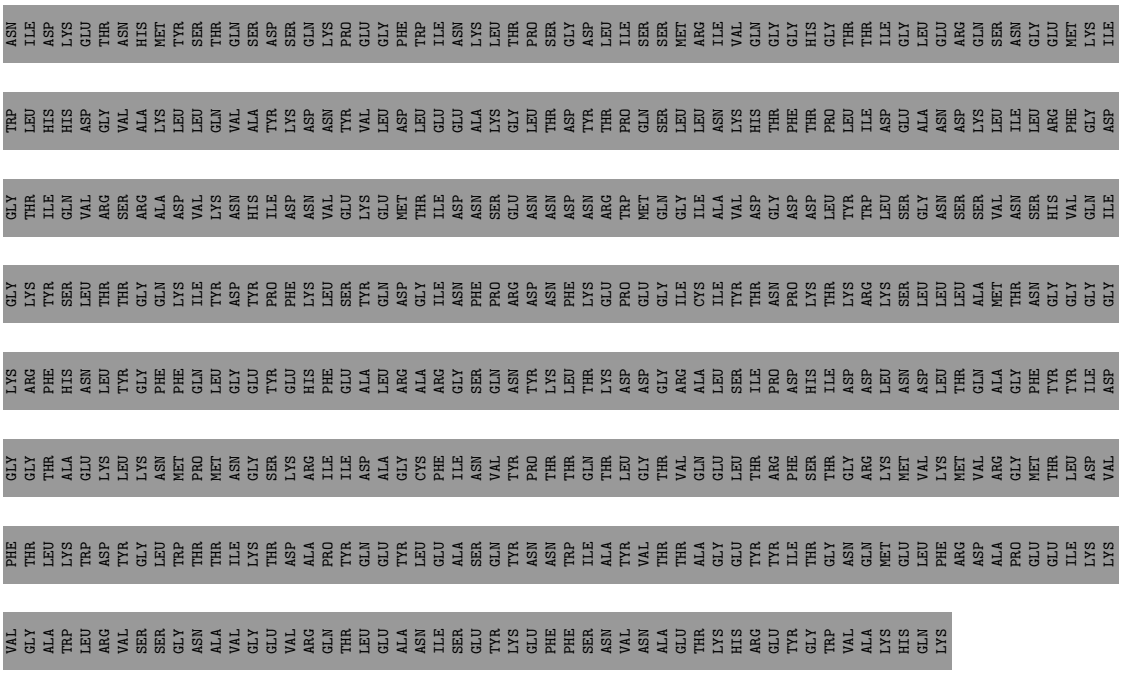
Chain OF:



• Molecule 5: Minor structural protein

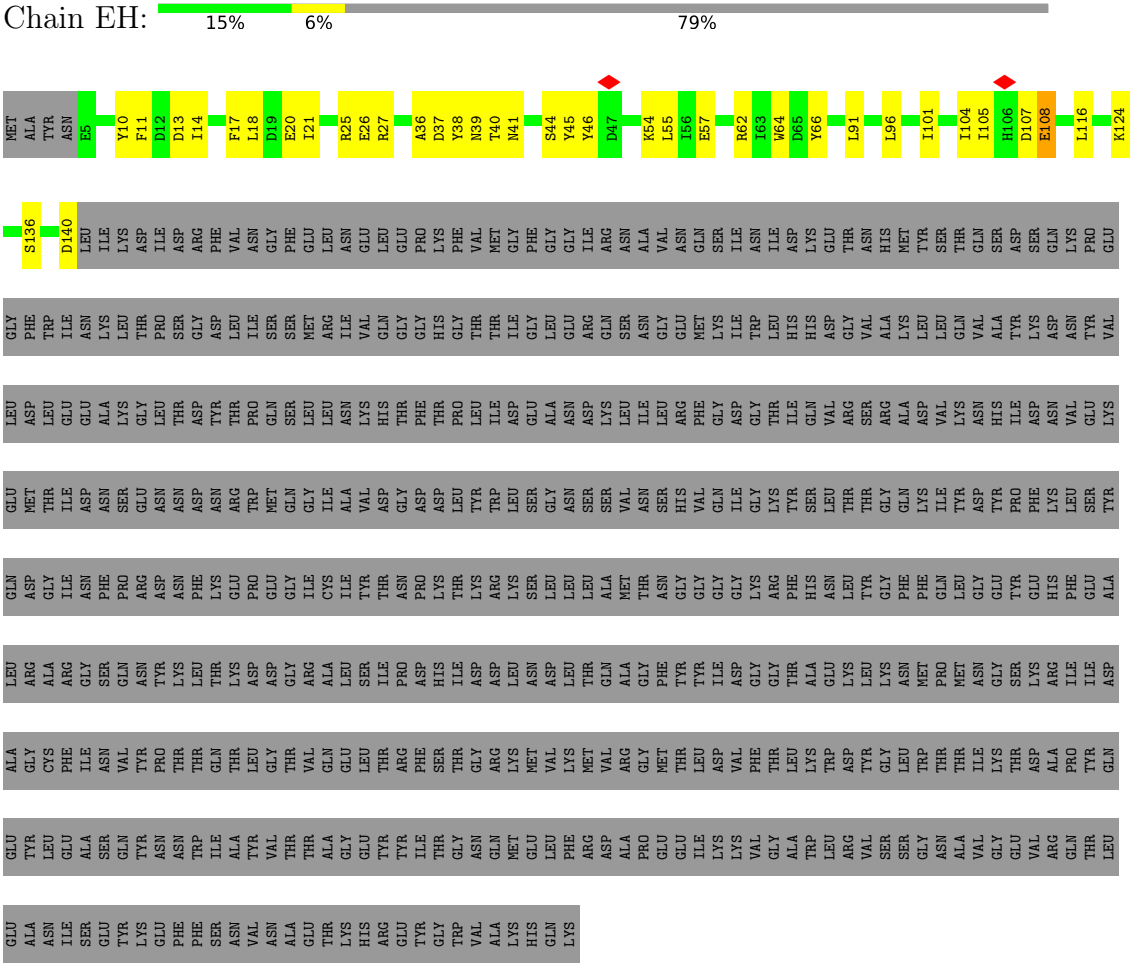
Chain DH:





• Molecule 5: Minor structural protein

Chain EH:

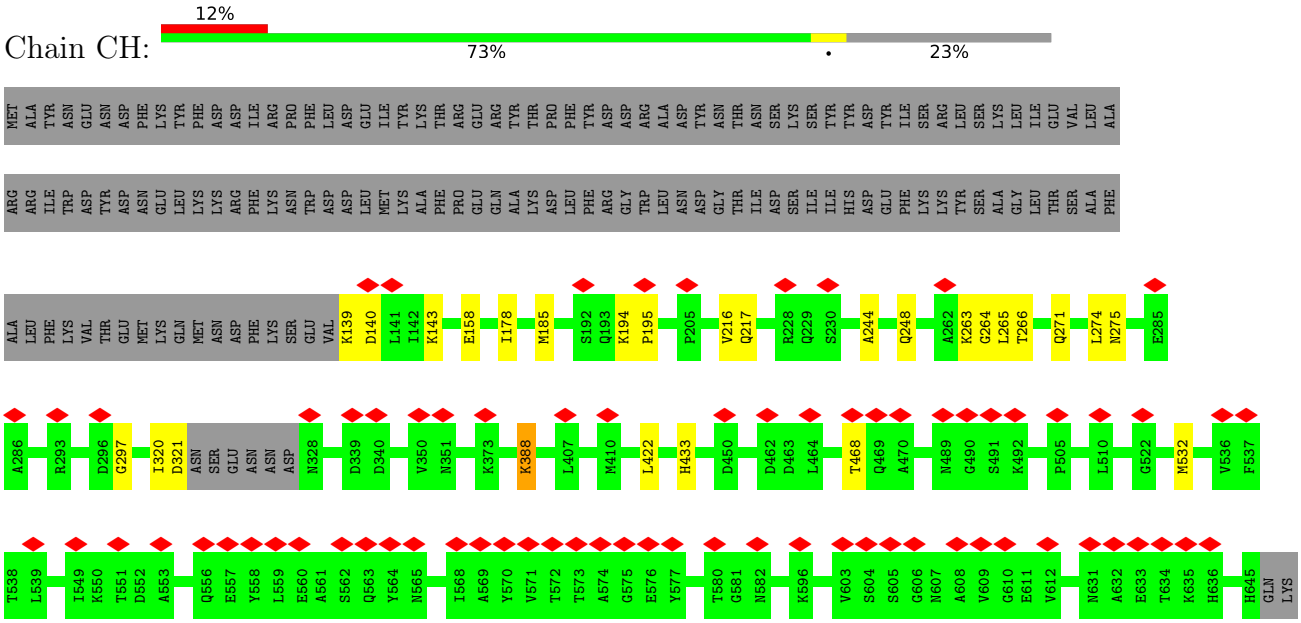


• Molecule 5: Minor structural protein

Chain FH:

• Molecule 5: Minor structural protein

Chain CH:



• Molecule 5: Minor structural protein

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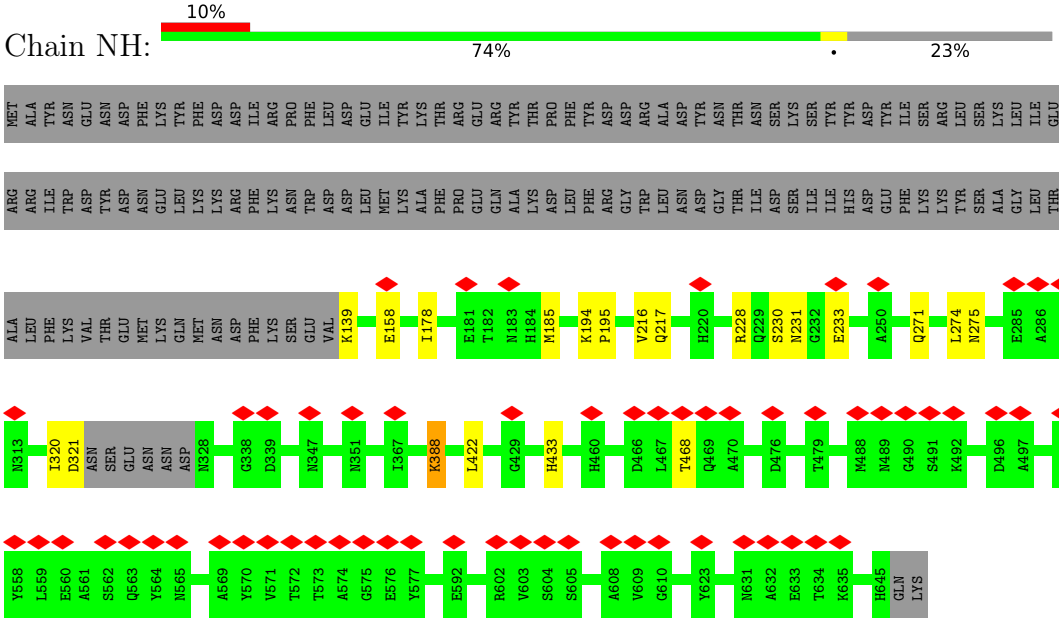
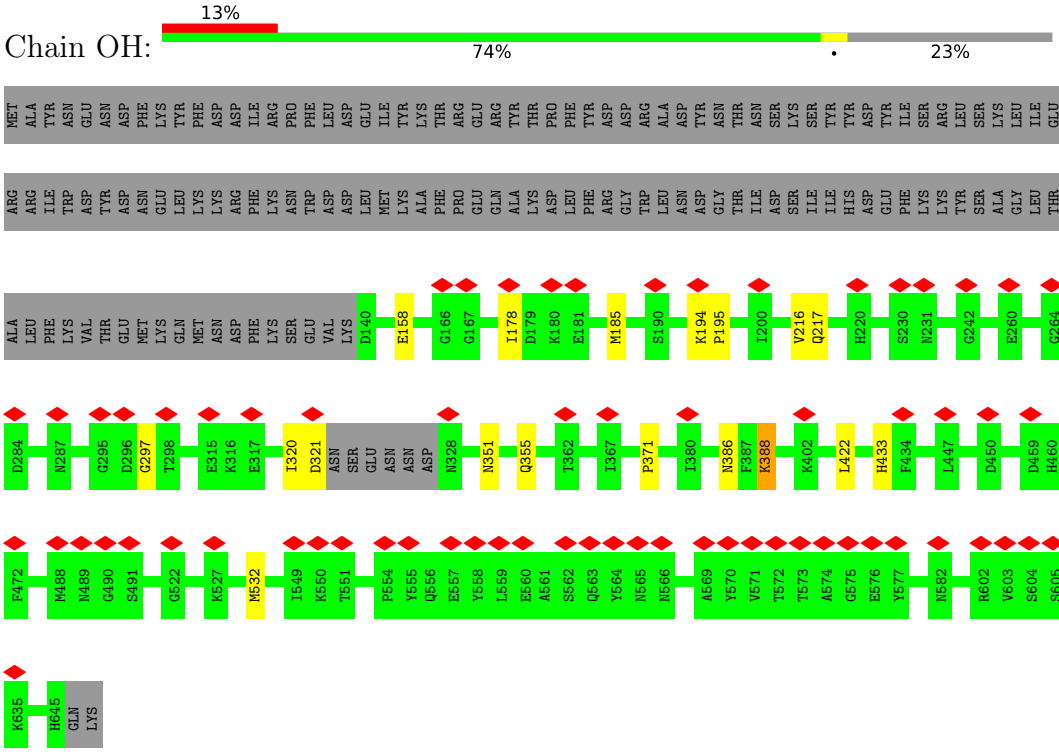


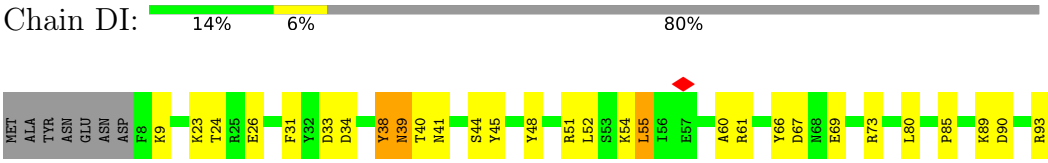
• Molecule 5: Minor structural protein

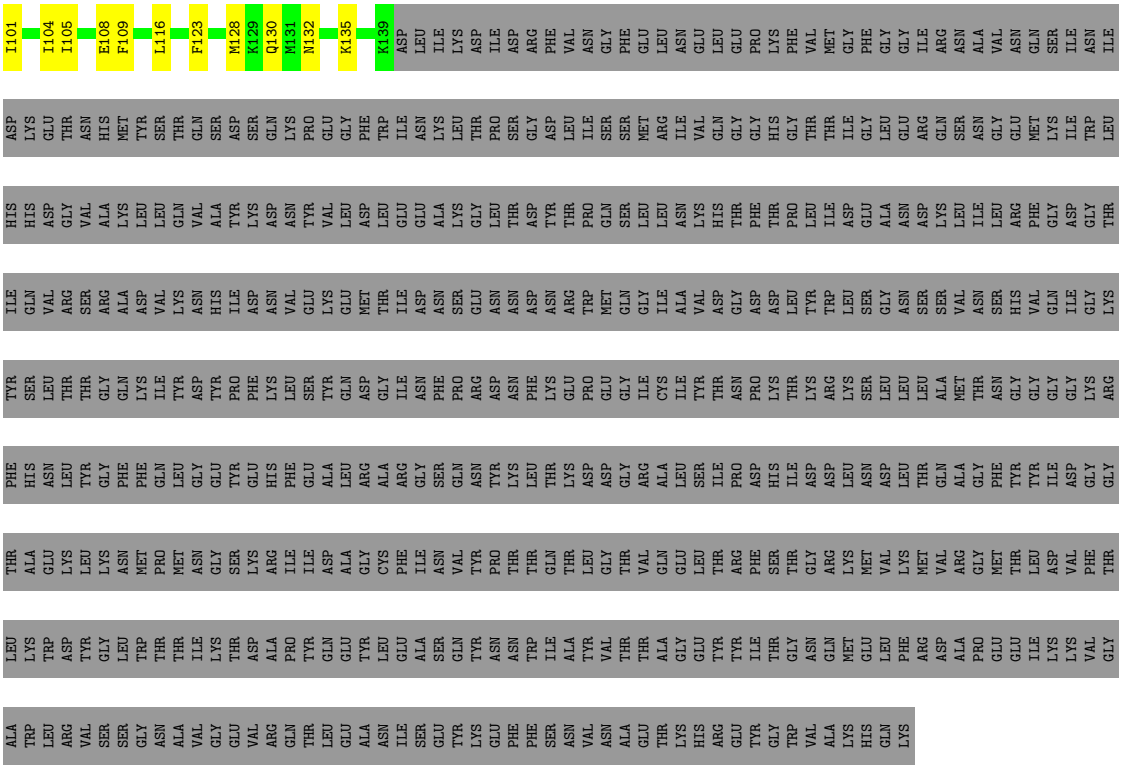
Chain OH:



• Molecule 5: Minor structural protein

Chain DI:





• Molecule 5: Minor structural protein

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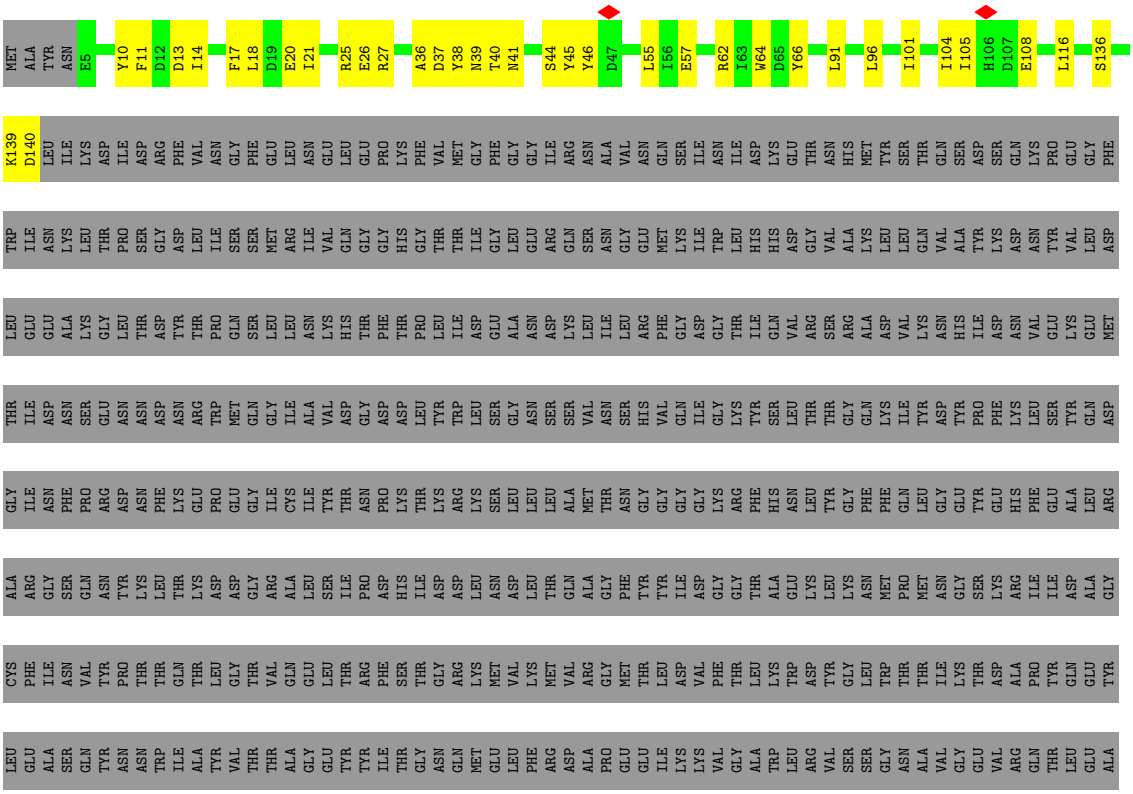
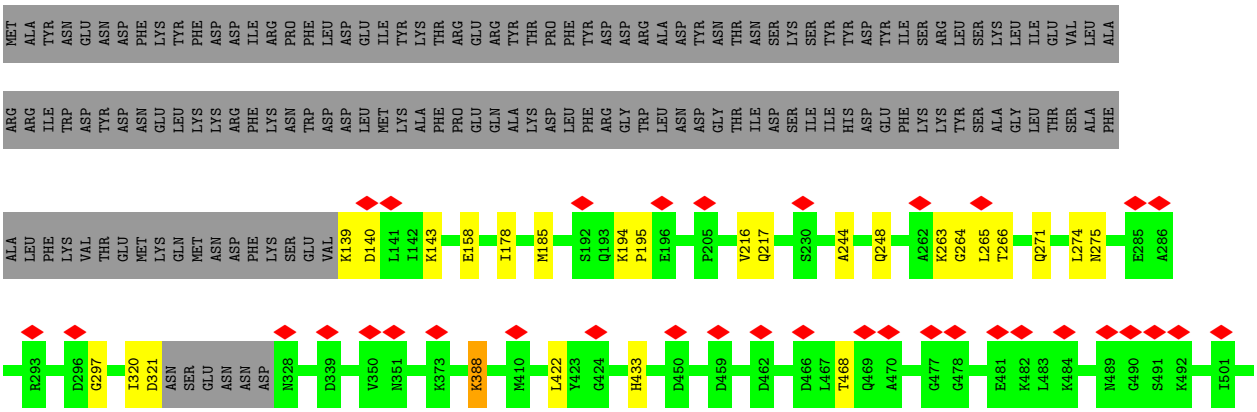


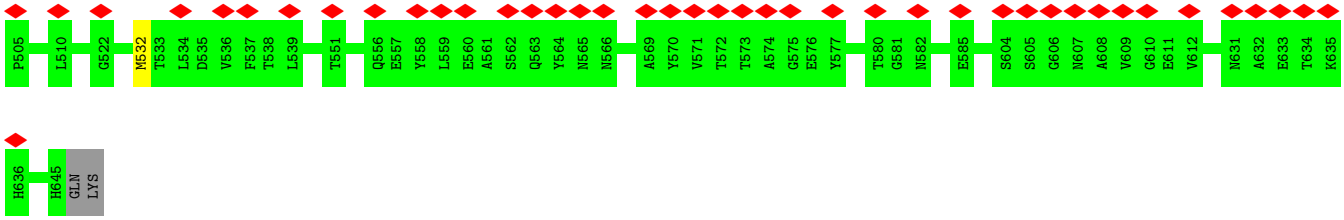
• Molecule 5: Minor structural protein

Chain FI:

• Molecule 5: Minor structural protein

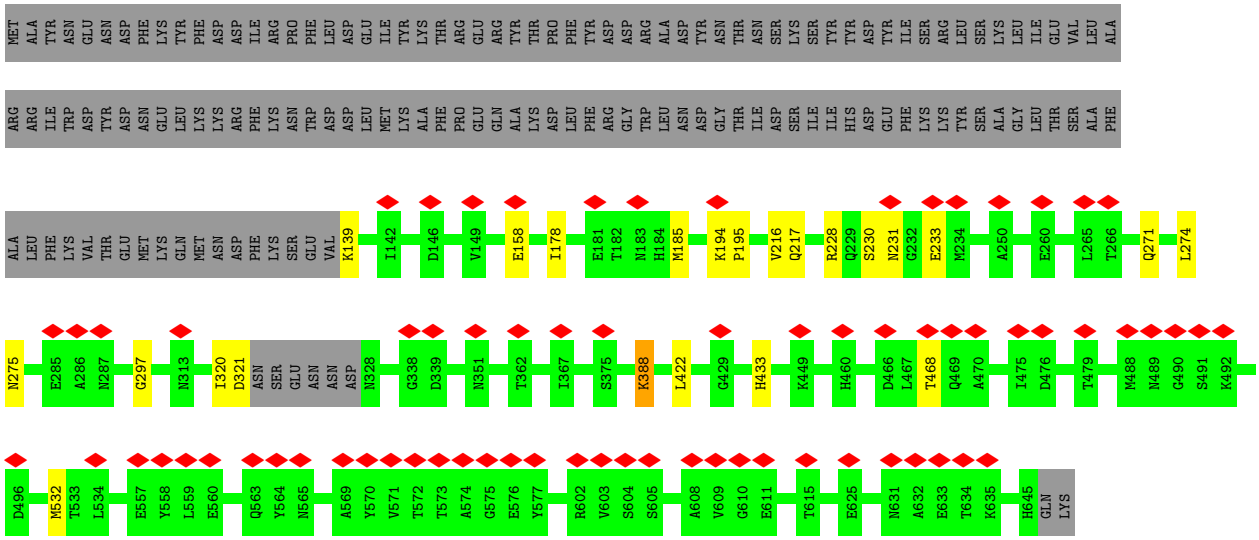
Chain CI:





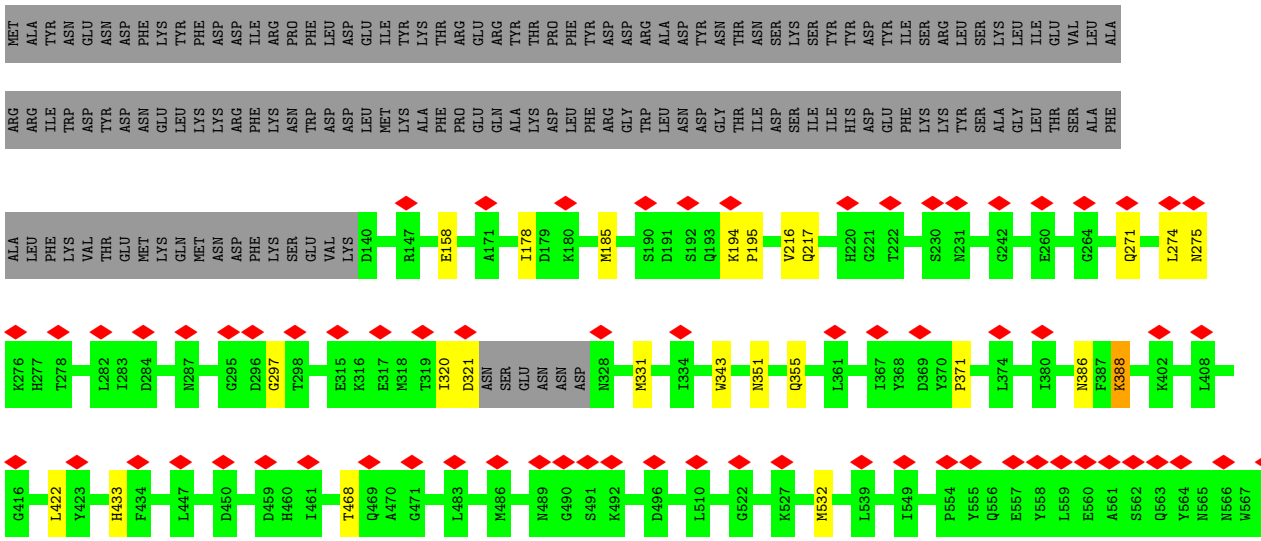
• Molecule 5: Minor structural protein

Chain NI:



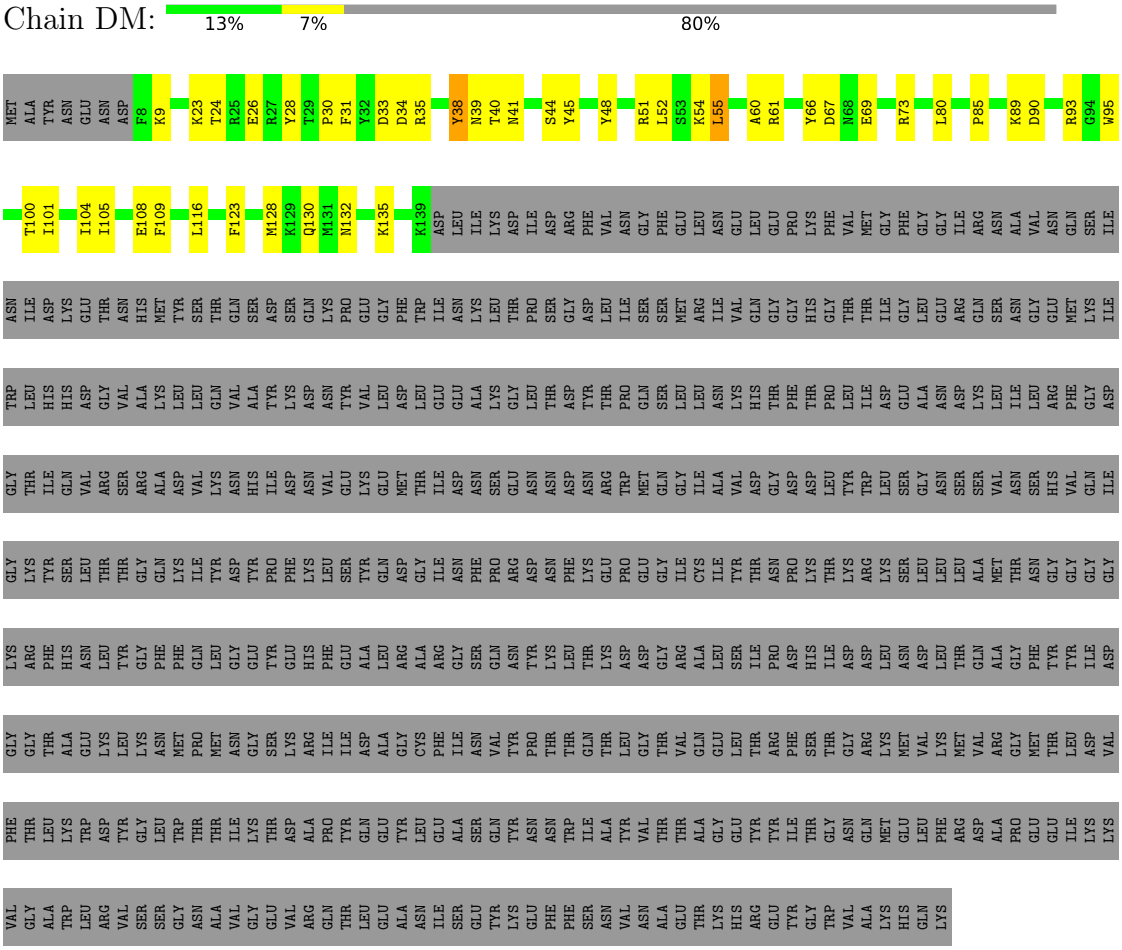
• Molecule 5: Minor structural protein

Chain OI:



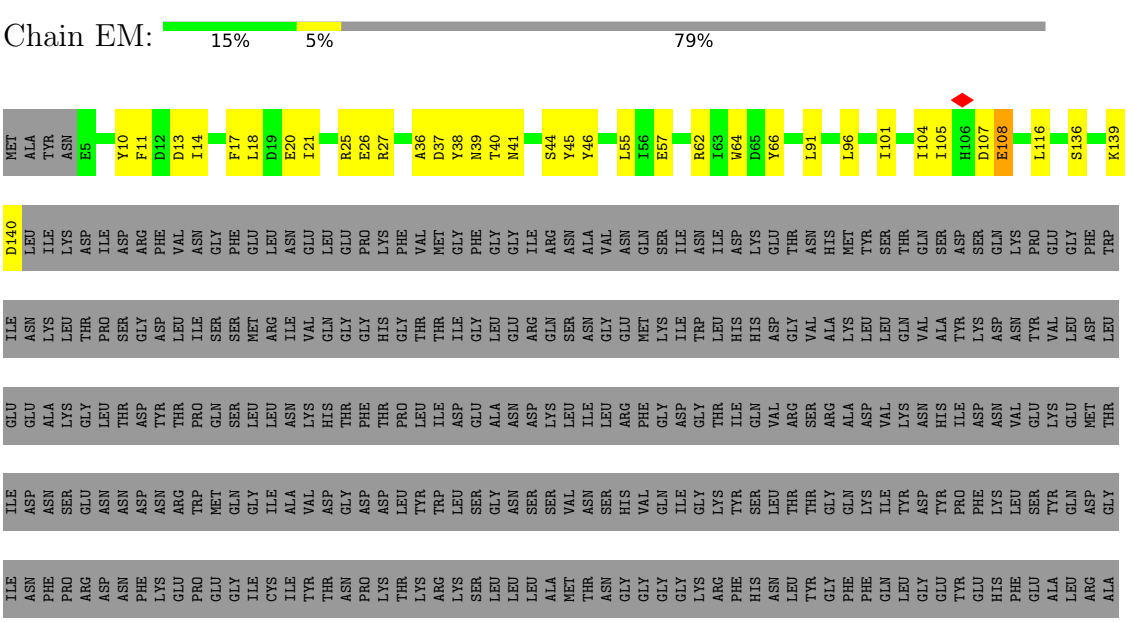
• Molecule 5: Minor structural protein

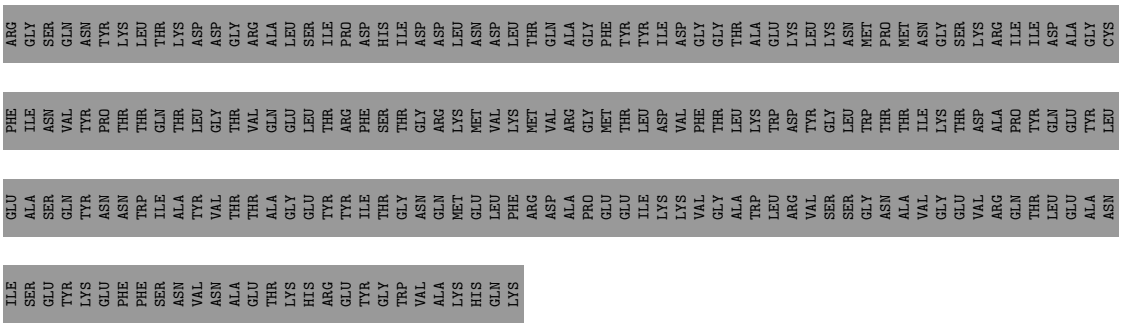
Chain DM:



• Molecule 5: Minor structural protein

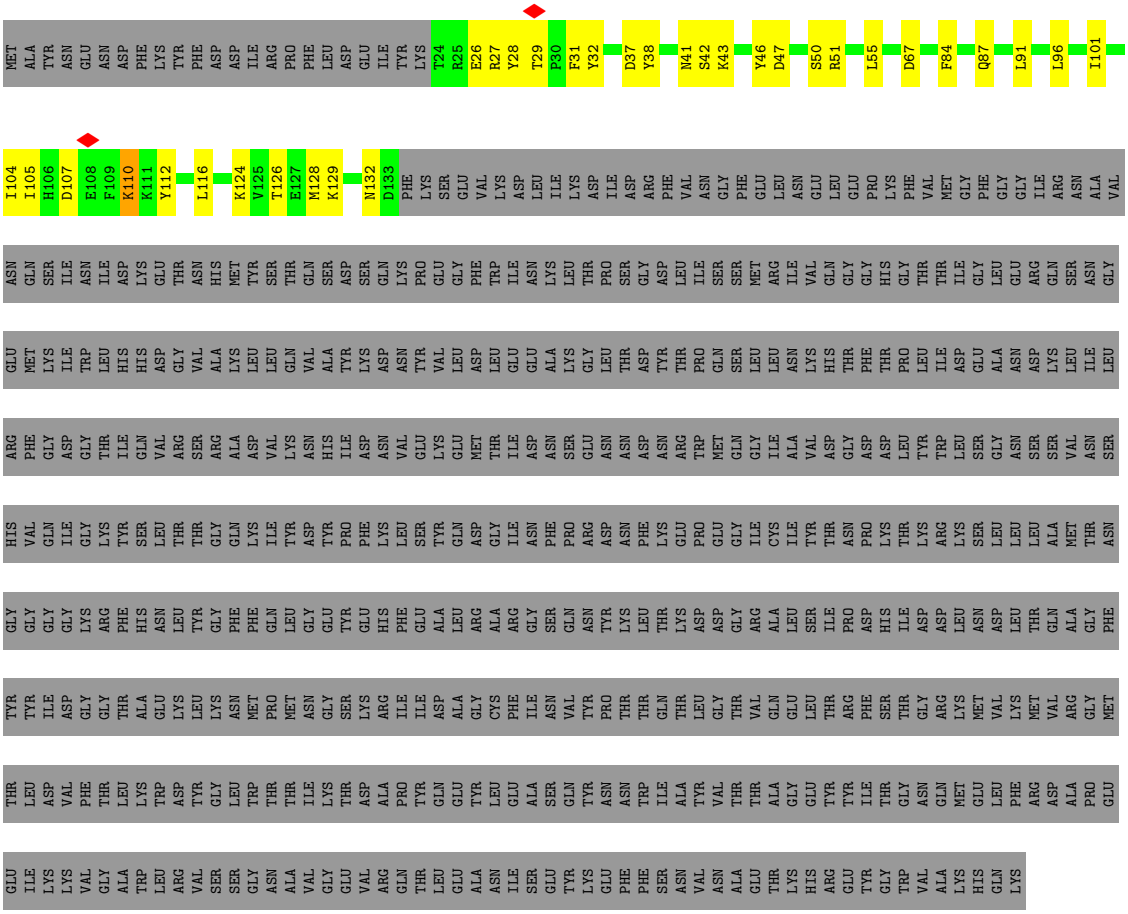
Chain EM:





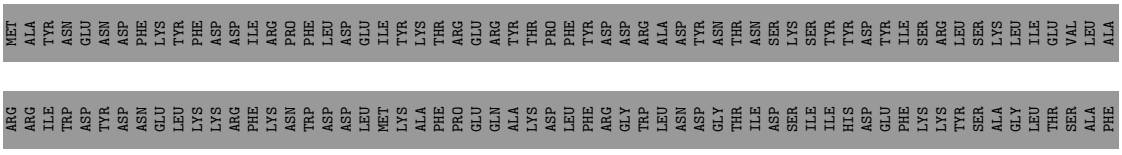
• Molecule 5: Minor structural protein

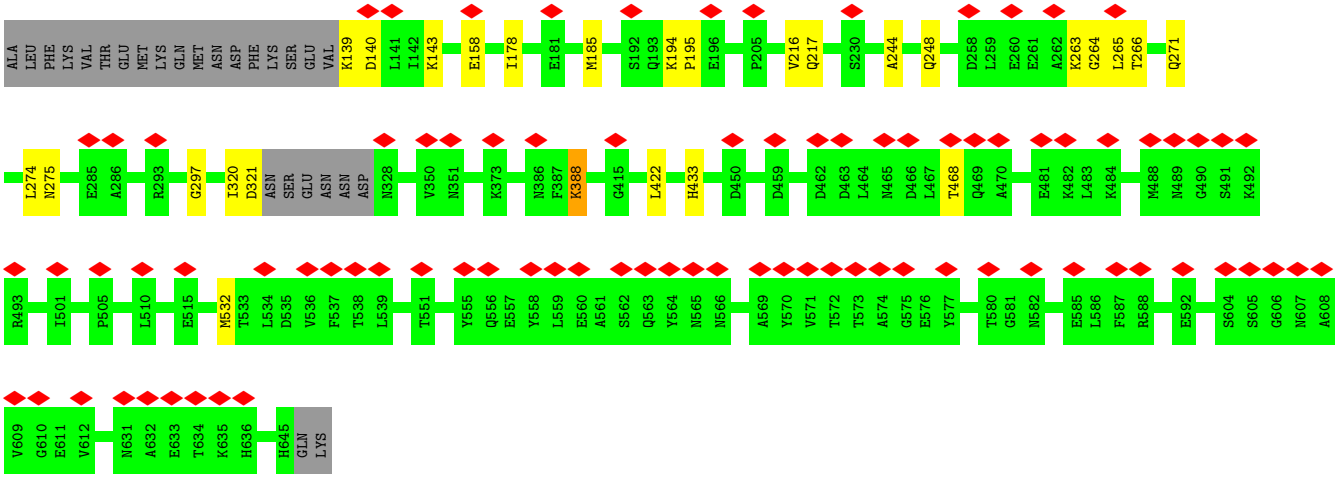
Chain FM:



• Molecule 5: Minor structural protein

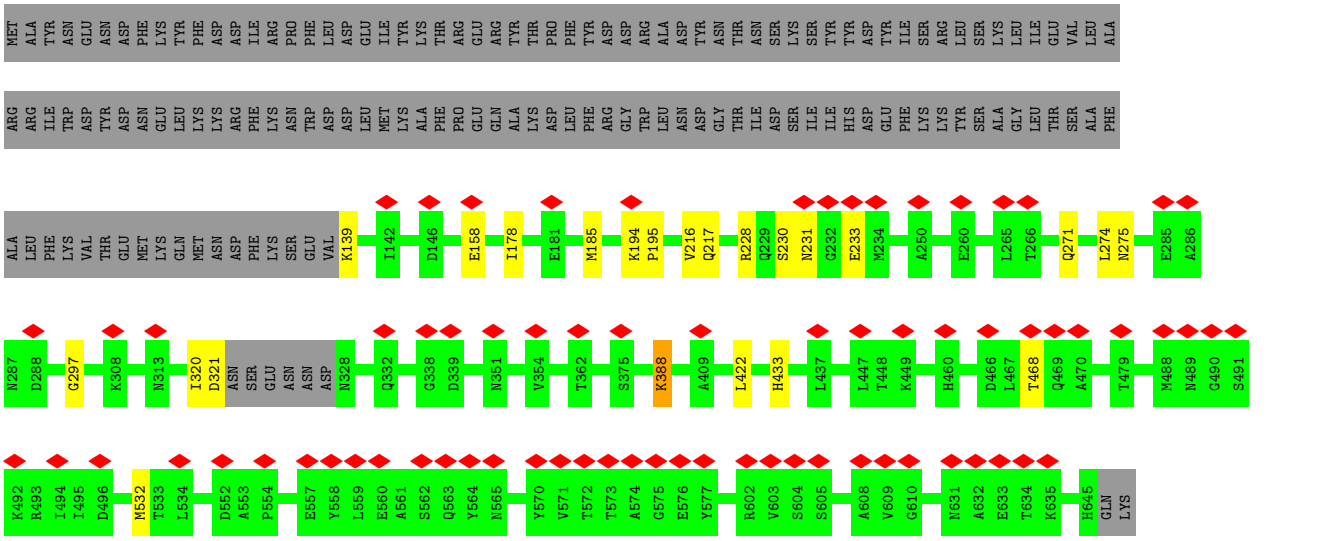
Chain CM:





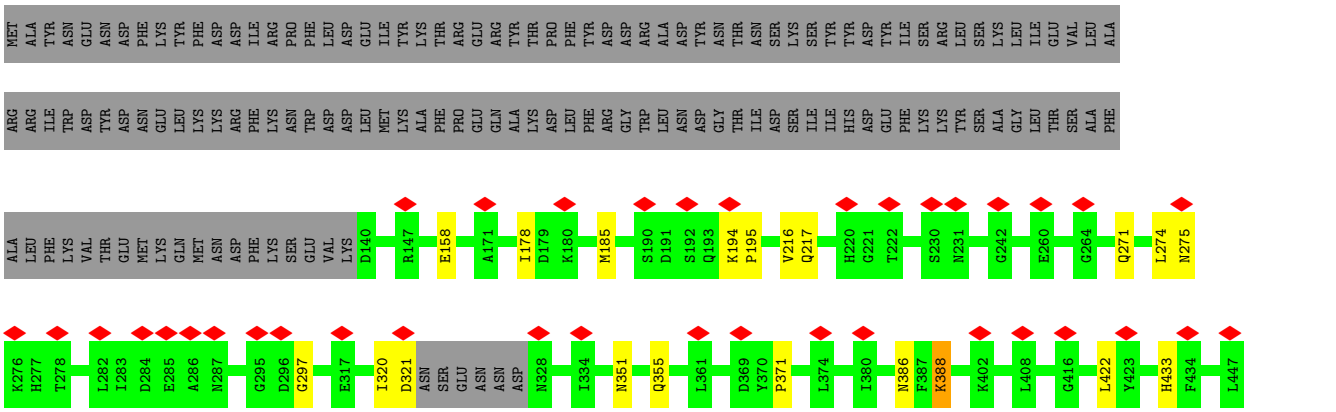
• Molecule 5: Minor structural protein

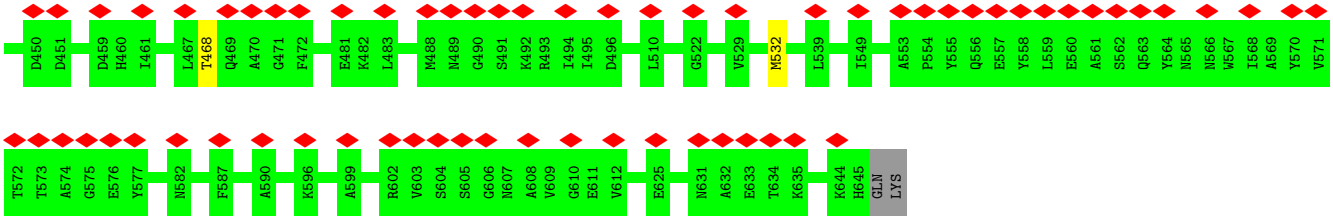
Chain NM:



• Molecule 5: Minor structural protein

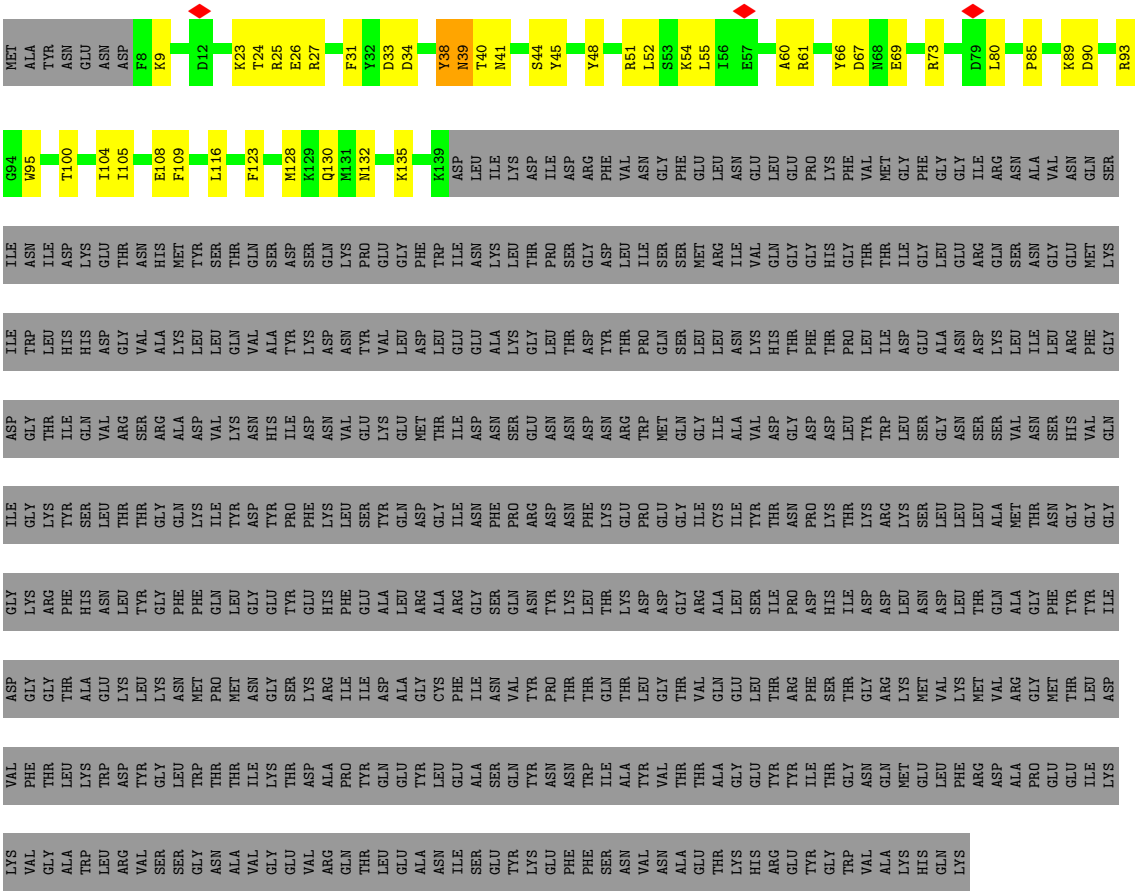
Chain OM:





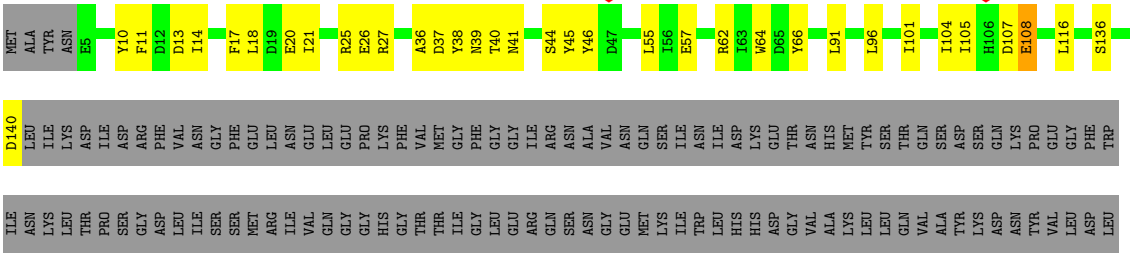
• Molecule 5: Minor structural protein

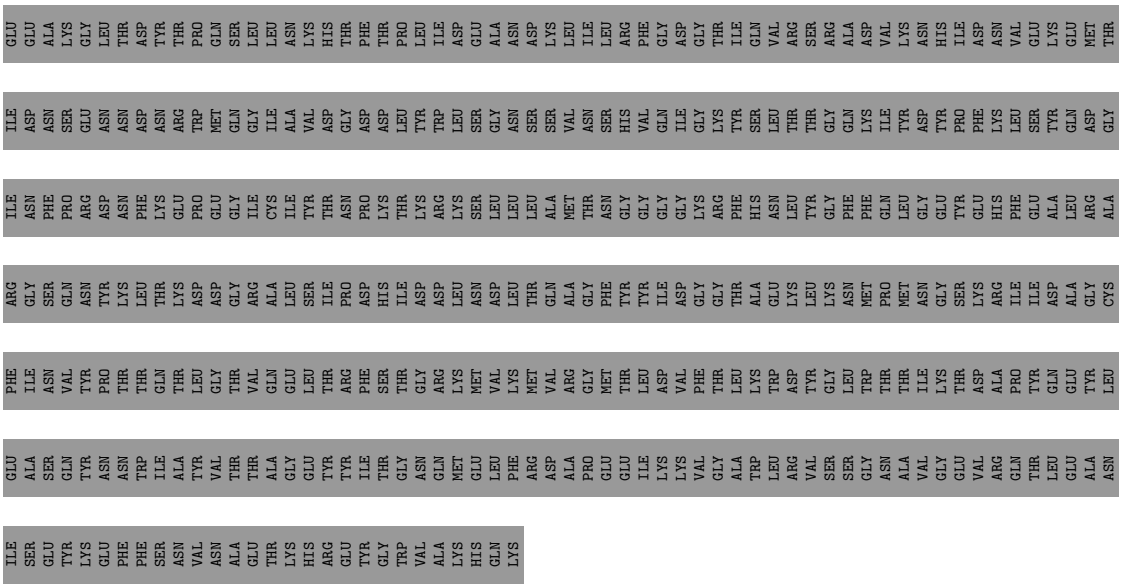
Chain DN:



• Molecule 5: Minor structural protein

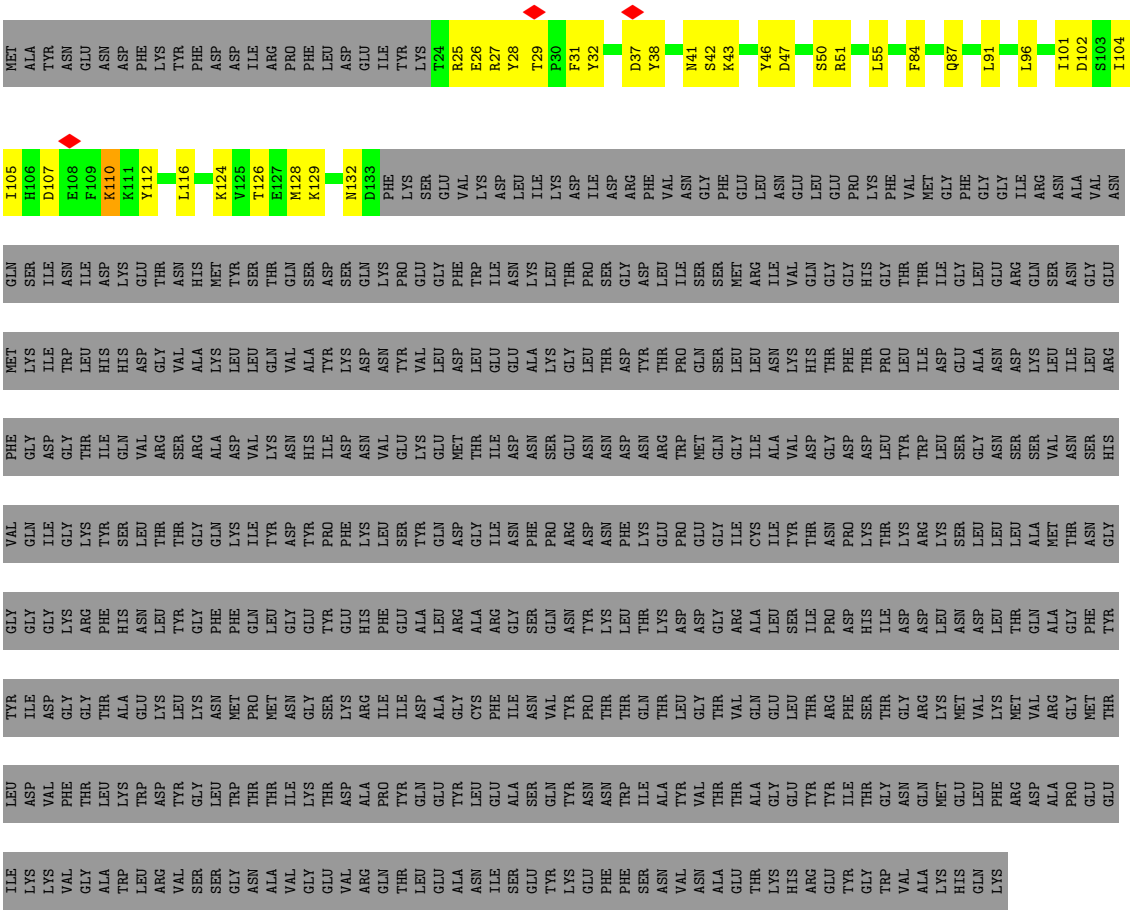
Chain EN:





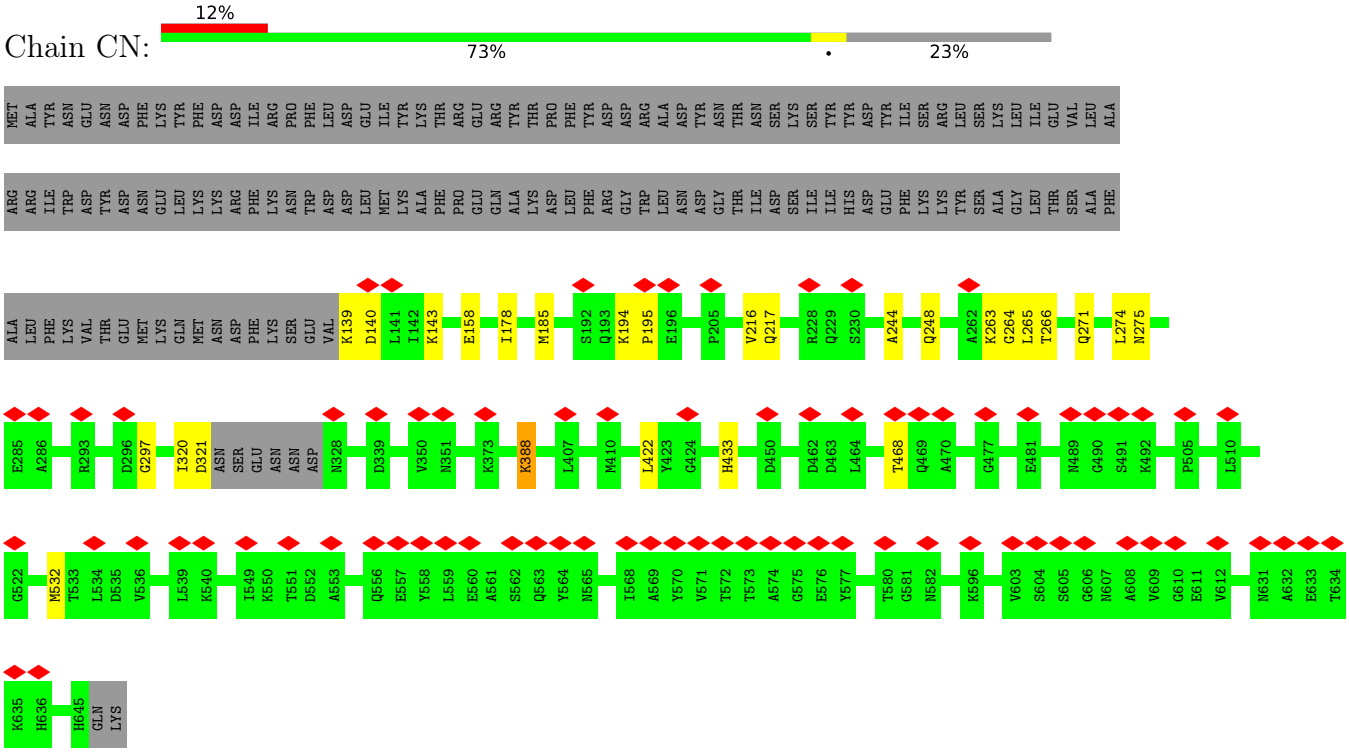
• Molecule 5: Minor structural protein

Chain FN: 12% 5% 83%



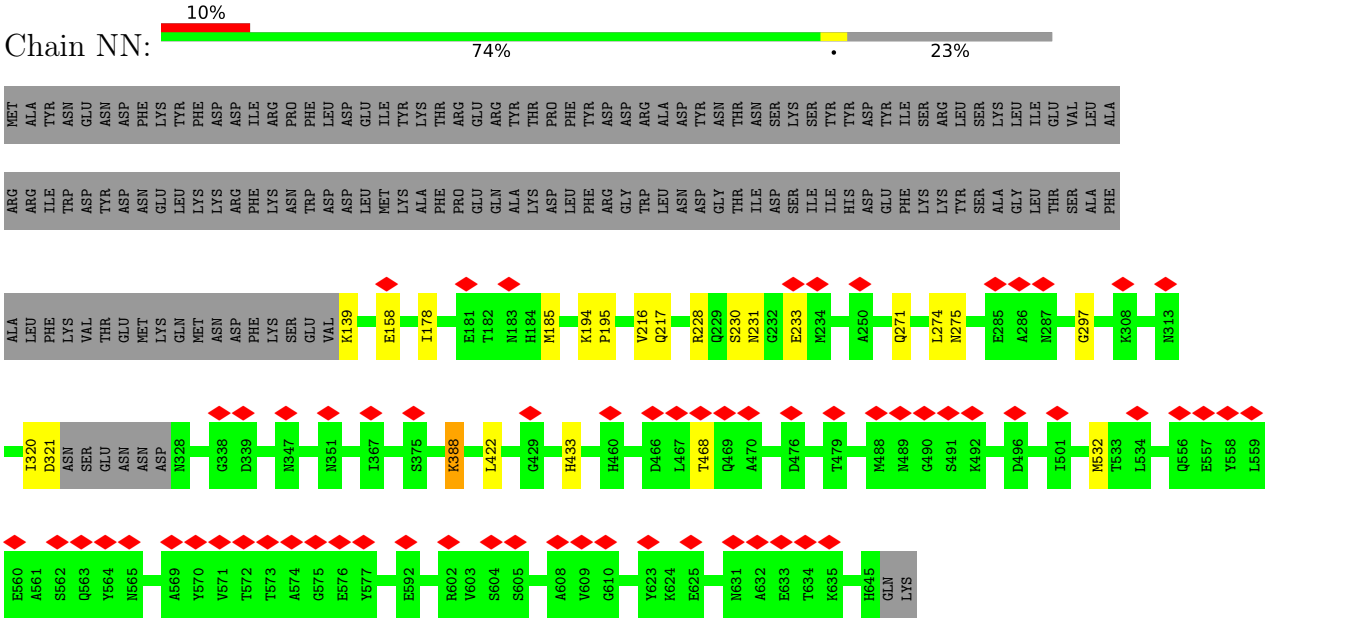
• Molecule 5: Minor structural protein

Chain CN:



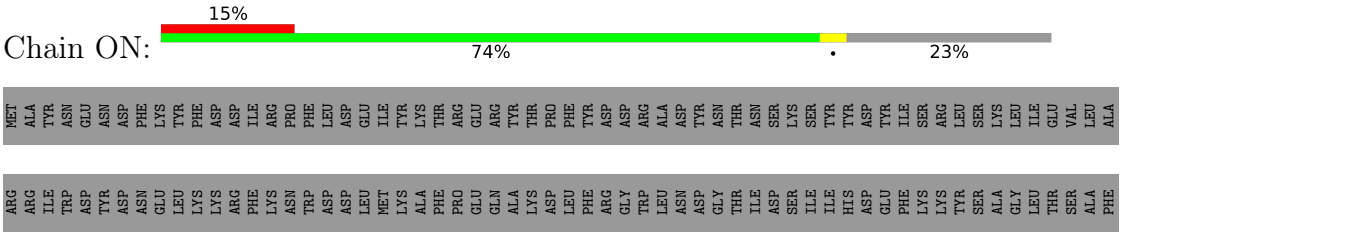
• Molecule 5: Minor structural protein

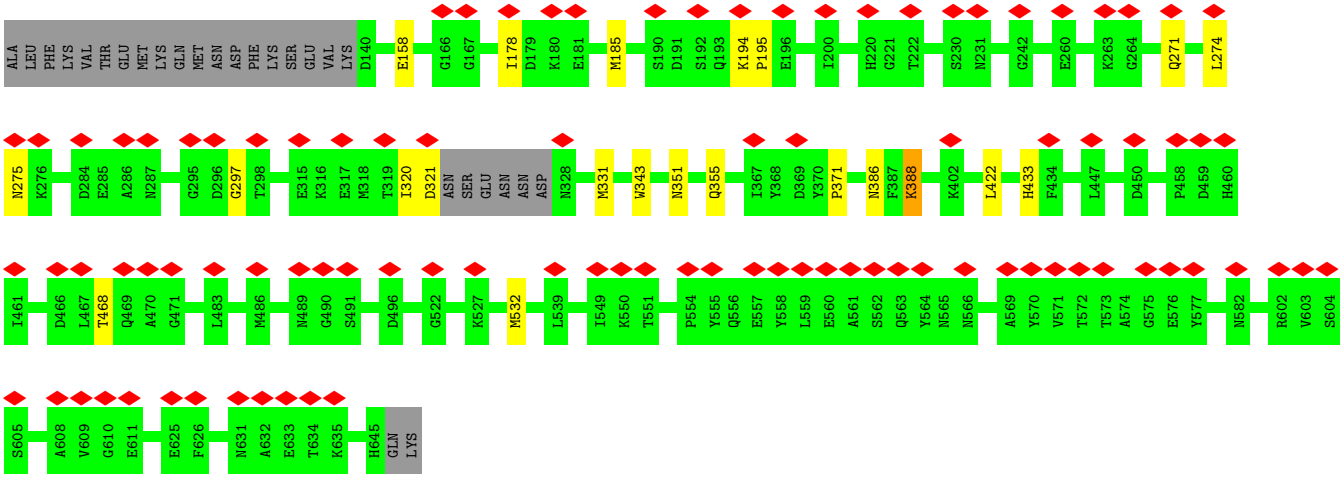
Chain NN:



• Molecule 5: Minor structural protein

Chain ON:





• Molecule 5: Minor structural protein

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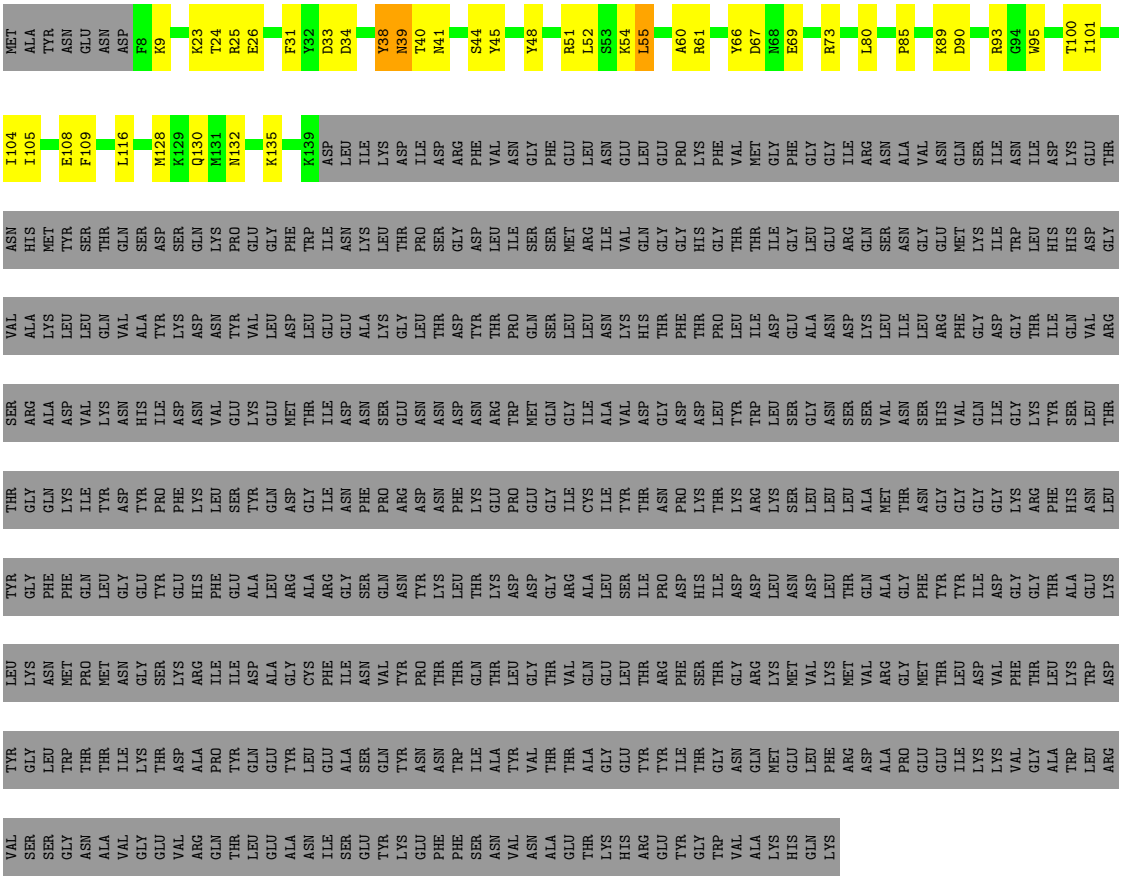
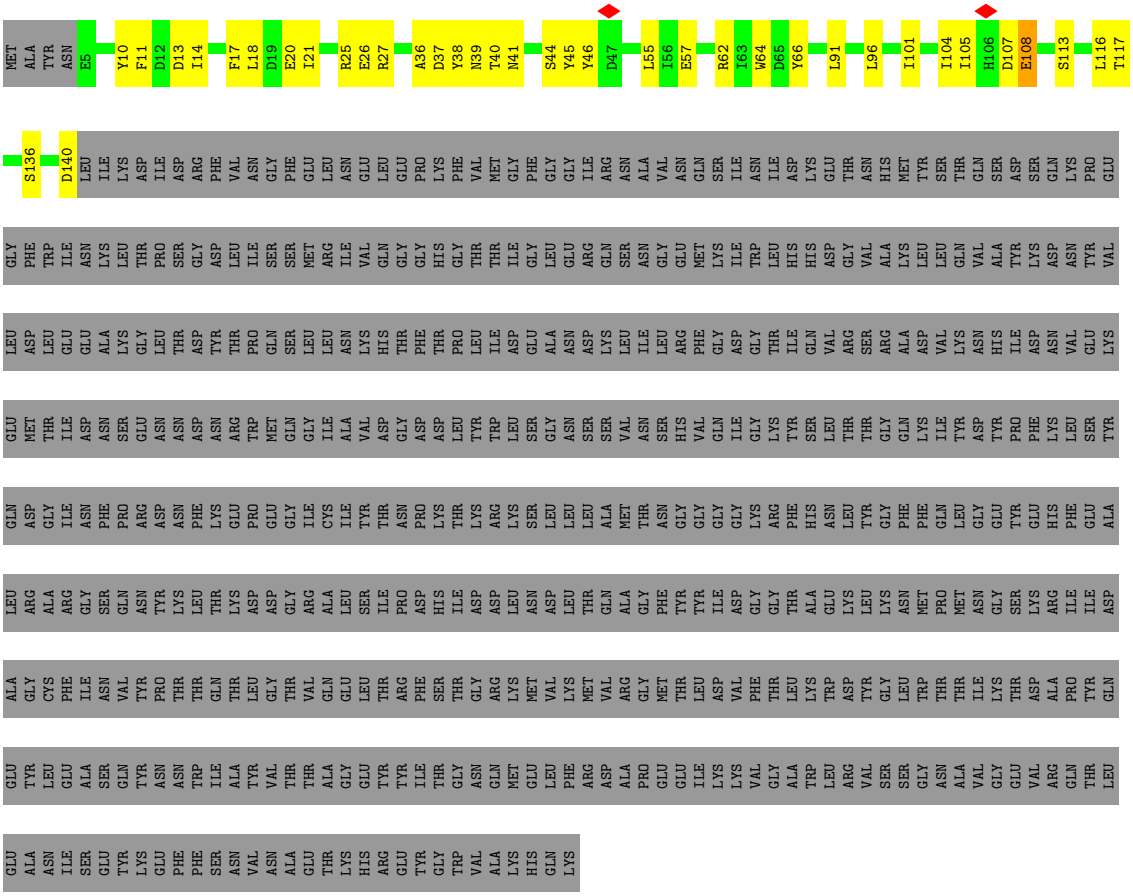


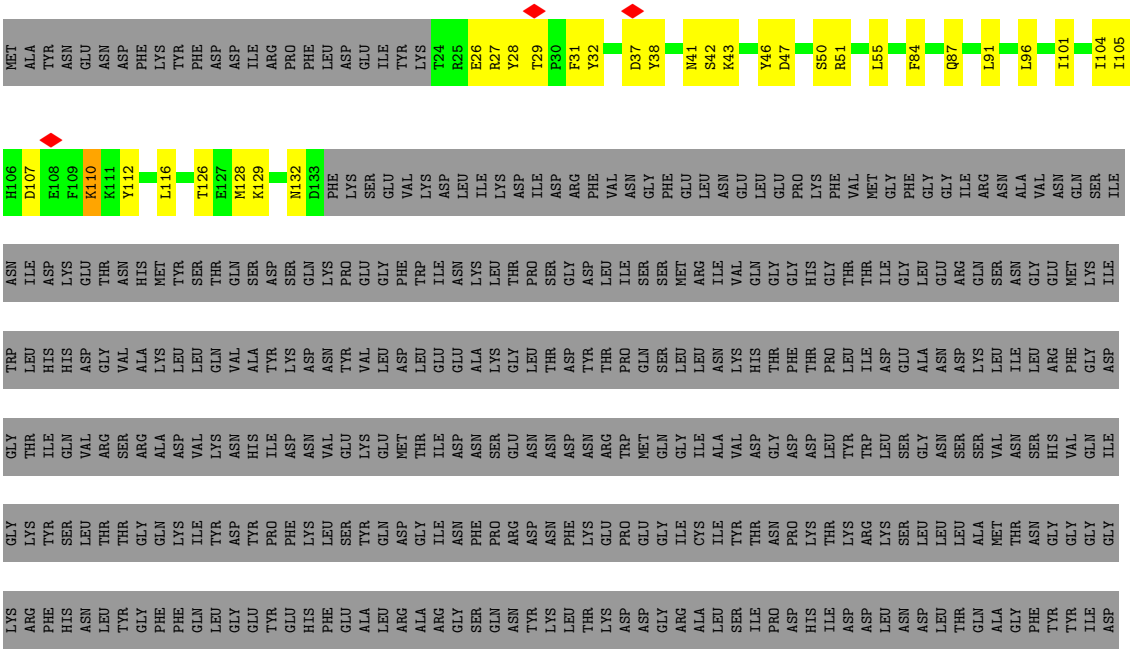
• Molecule 5: Minor structural protein

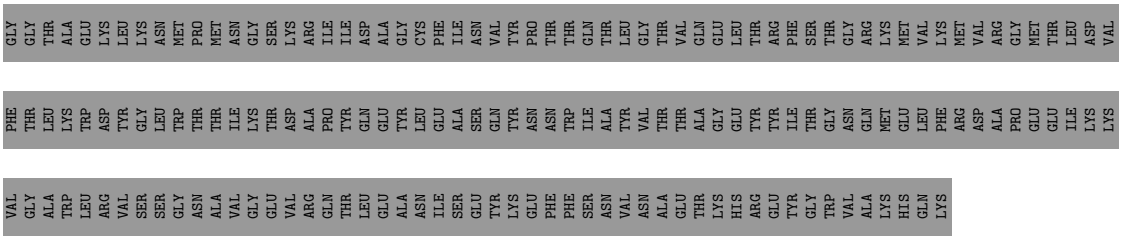
Chain EO:



• Molecule 5: Minor structural protein

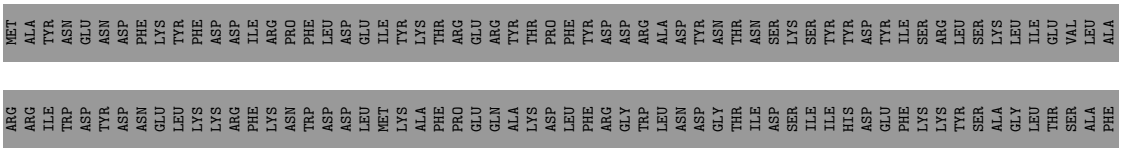
Chain FO:

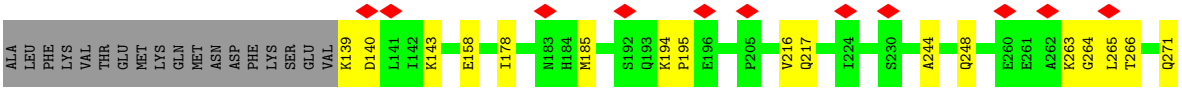


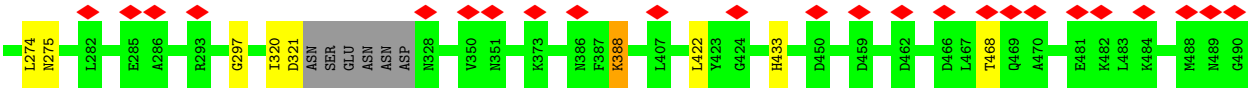


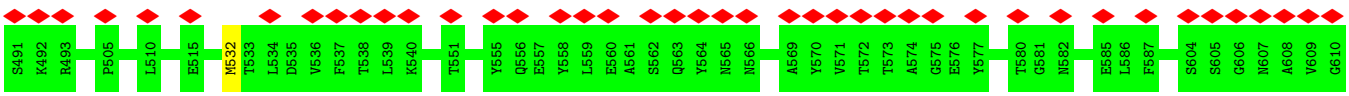
• Molecule 5: Minor structural protein

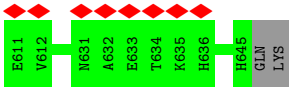
Chain CO:





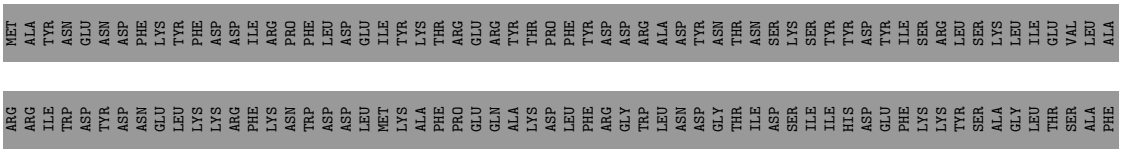


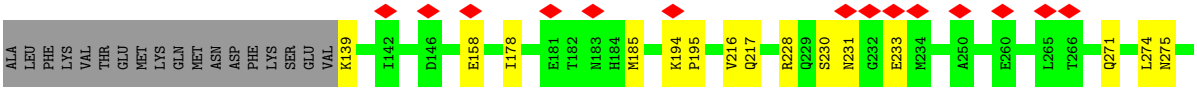


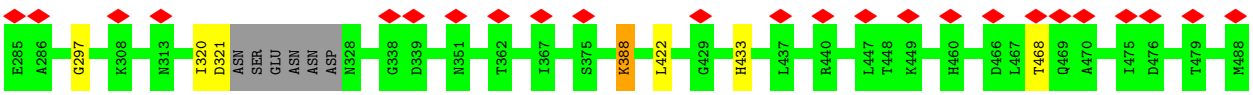


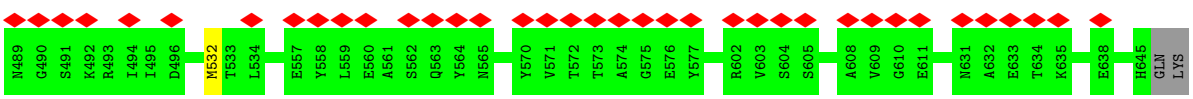
• Molecule 5: Minor structural protein

Chain NO:



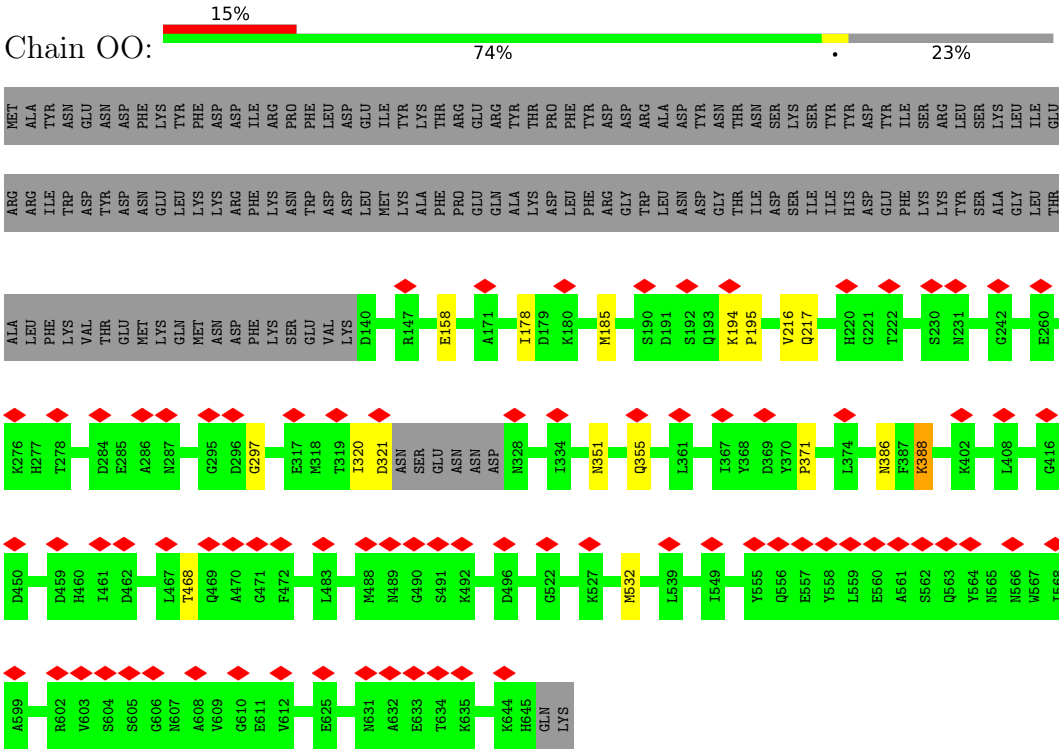






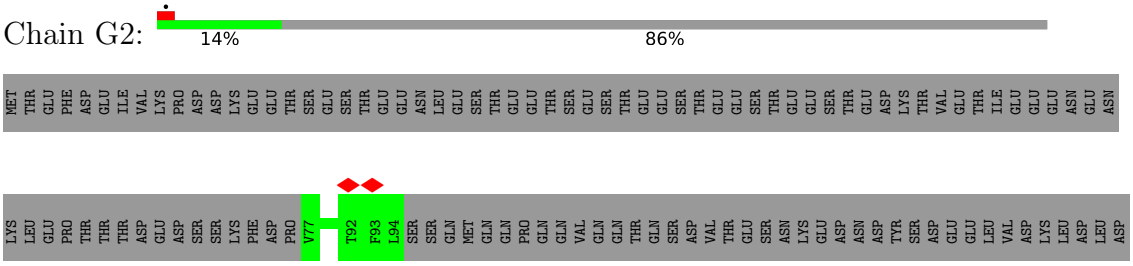
• Molecule 5: Minor structural protein

Chain OO:



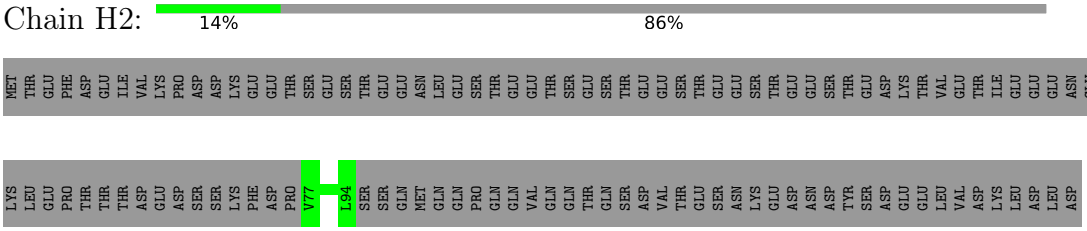
• Molecule 6: Tail fibre protein

Chain G2:



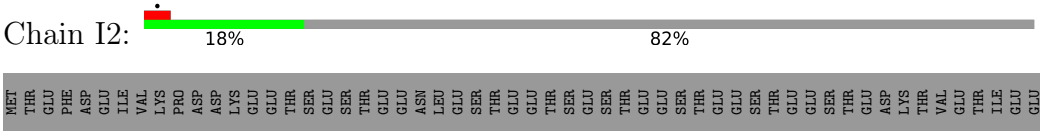
• Molecule 6: Tail fibre protein

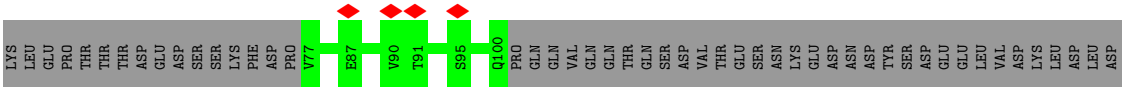
Chain H2:



• Molecule 6: Tail fibre protein

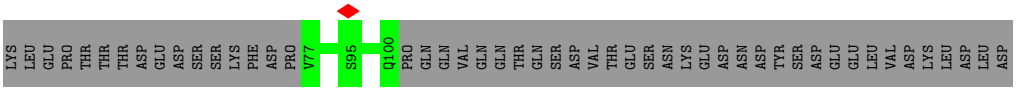
Chain I2:





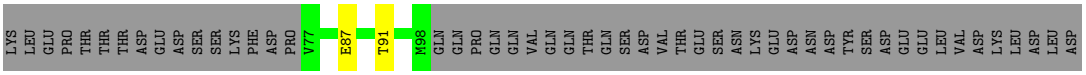
• Molecule 6: Tail fibre protein

Chain J2:



• Molecule 6: Tail fibre protein

Chain K2:

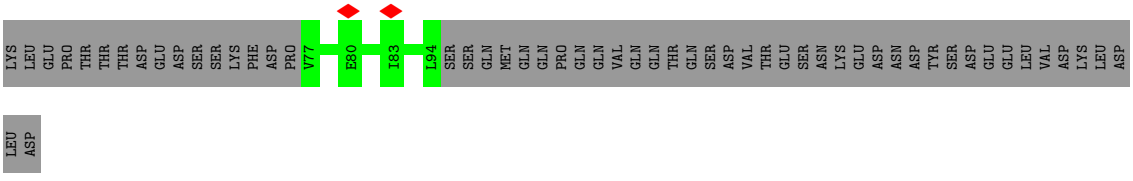


• Molecule 6: Tail fibre protein

Chain L2:

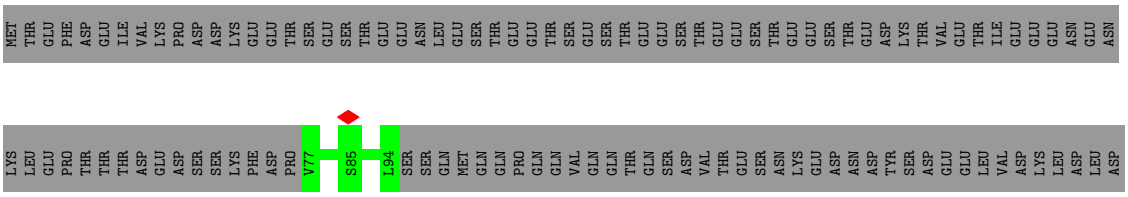
• Molecule 6: Tail fibre protein

Chain G5:



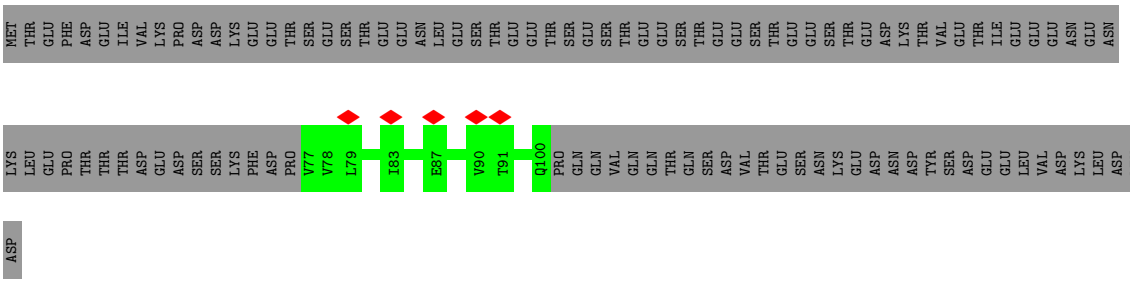
• Molecule 6: Tail fibre protein

Chain H5:



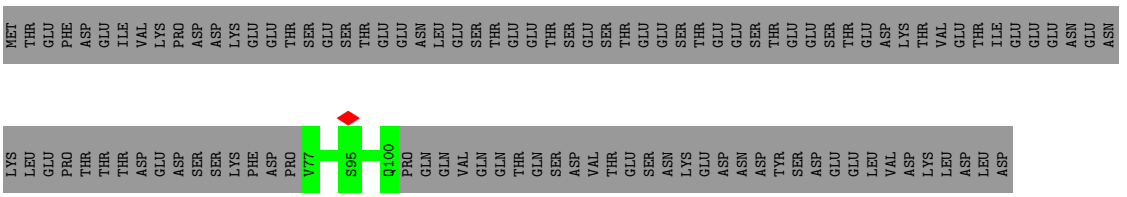
• Molecule 6: Tail fibre protein

Chain I5:



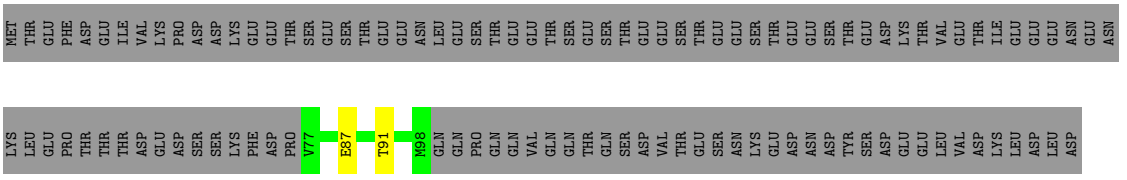
• Molecule 6: Tail fibre protein

Chain J5:



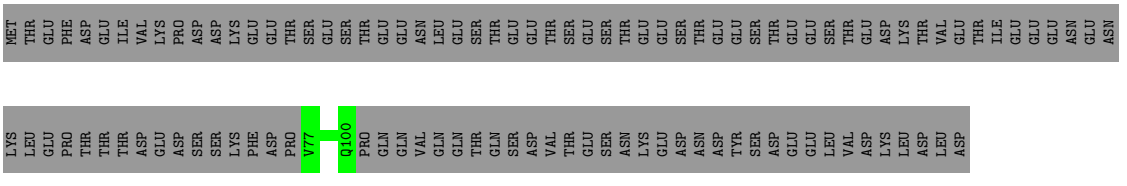
• Molecule 6: Tail fibre protein

Chain K5:



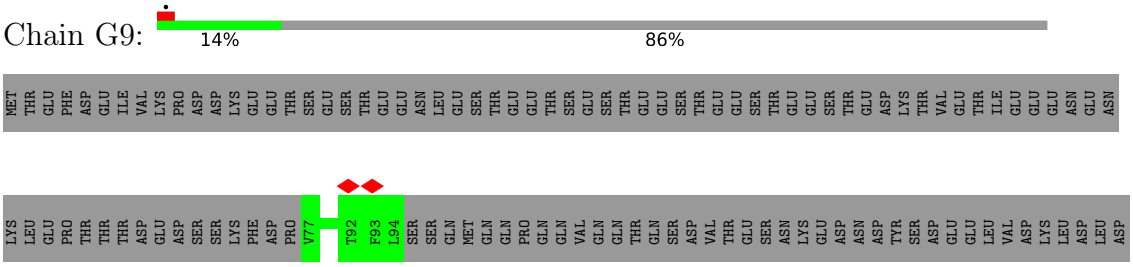
• Molecule 6: Tail fibre protein

Chain L5:



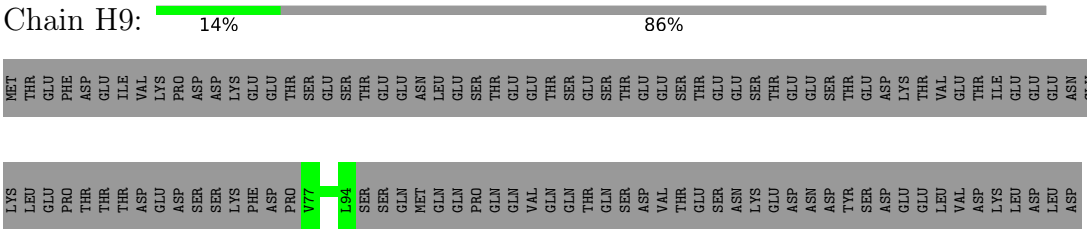
• Molecule 6: Tail fibre protein

Chain G9:



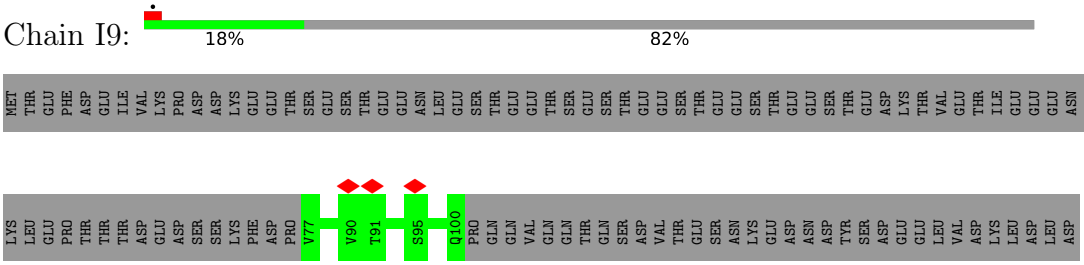
• Molecule 6: Tail fibre protein

Chain H9:



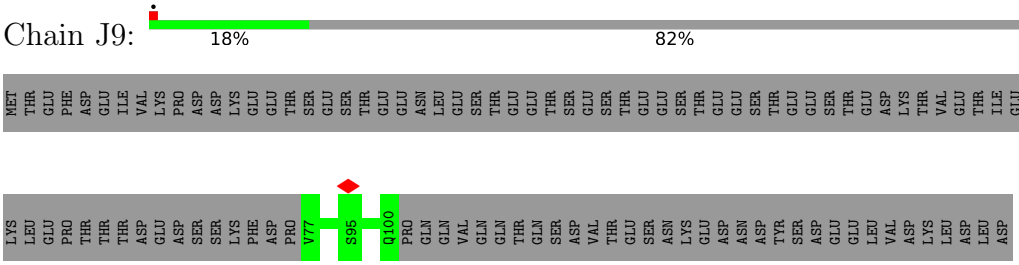
• Molecule 6: Tail fibre protein

Chain I9:



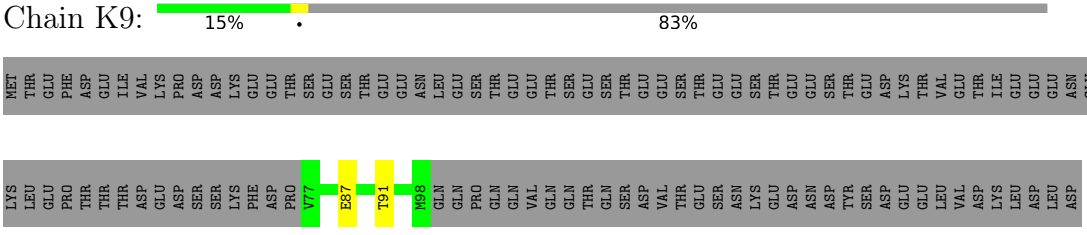
• Molecule 6: Tail fibre protein

Chain J9:



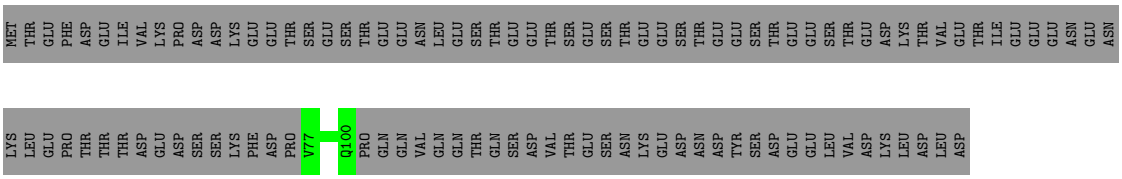
• Molecule 6: Tail fibre protein

Chain K9:



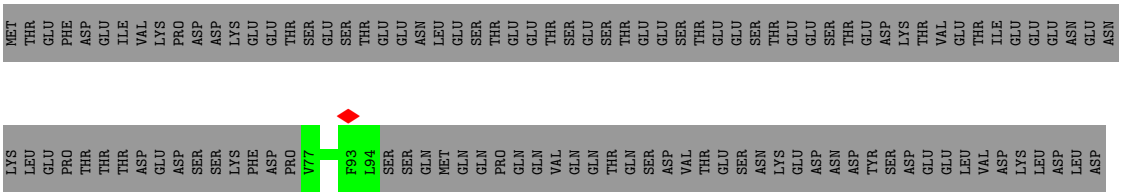
• Molecule 6: Tail fibre protein

Chain L9:



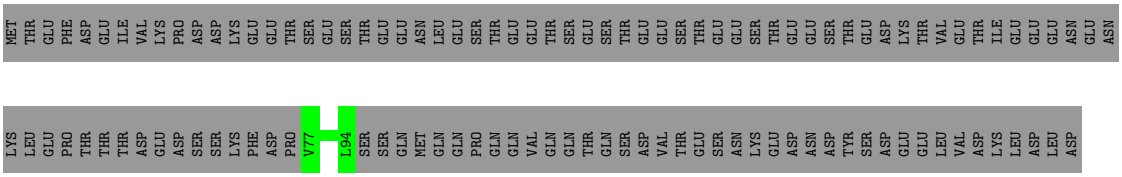
• Molecule 6: Tail fibre protein

Chain GA:



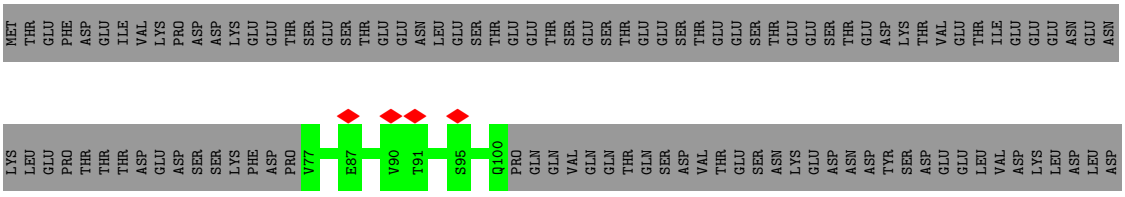
• Molecule 6: Tail fibre protein

Chain HA:



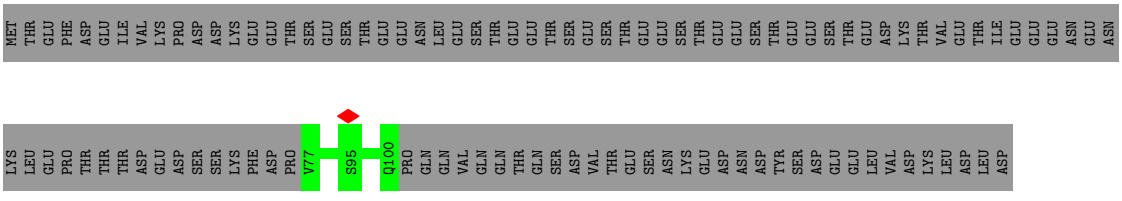
• Molecule 6: Tail fibre protein

Chain IA:



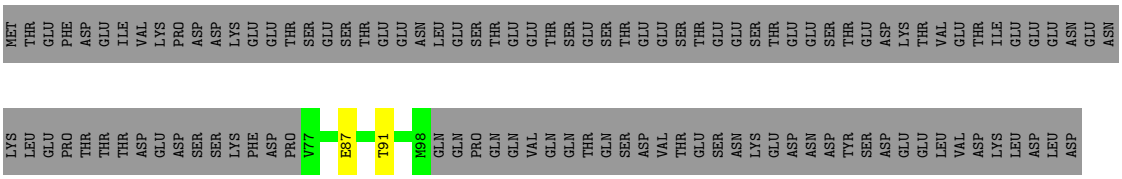
• Molecule 6: Tail fibre protein

Chain JA:



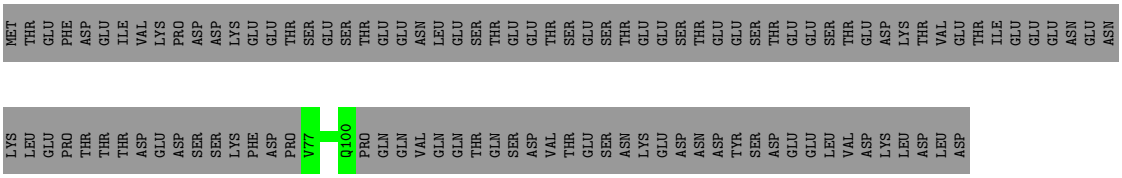
• Molecule 6: Tail fibre protein

Chain KA:



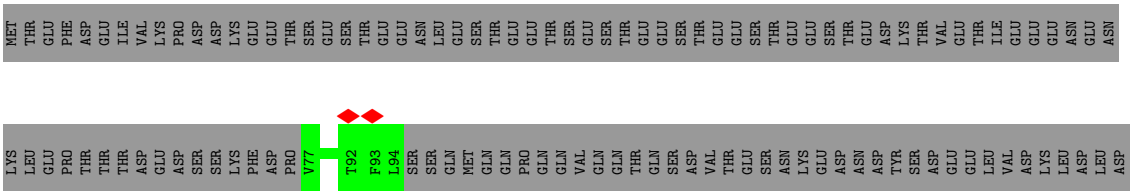
• Molecule 6: Tail fibre protein

Chain LA:



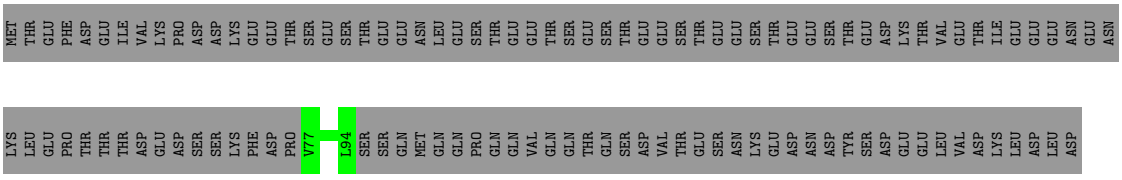
• Molecule 6: Tail fibre protein

Chain GB:



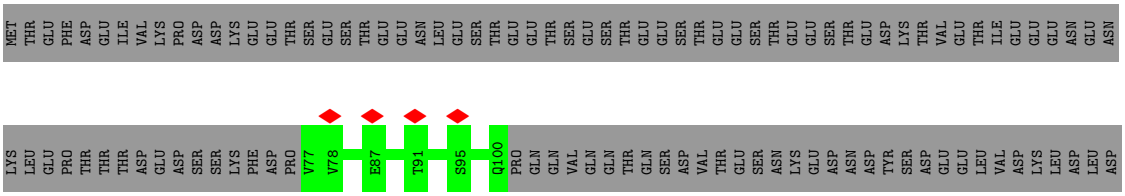
• Molecule 6: Tail fibre protein

Chain HB:



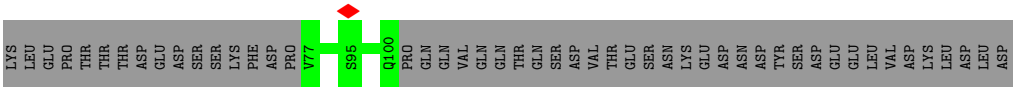
• Molecule 6: Tail fibre protein

Chain IB:



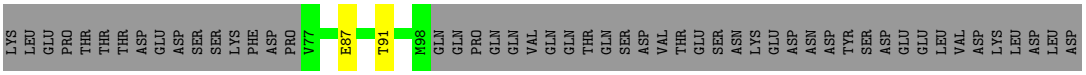
• Molecule 6: Tail fibre protein

Chain JB:



• Molecule 6: Tail fibre protein

Chain KB:



• Molecule 6: Tail fibre protein

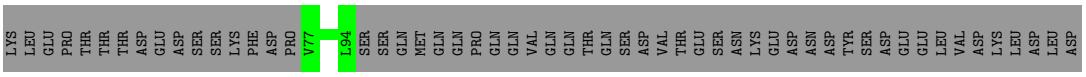
Chain LB:

• Molecule 6: Tail fibre protein

Chain GC:

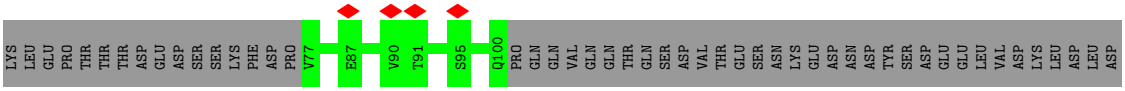
• Molecule 6: Tail fibre protein

Chain HC:



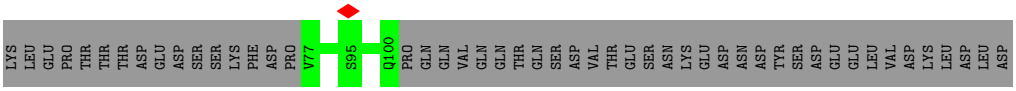
• Molecule 6: Tail fibre protein

Chain IC:



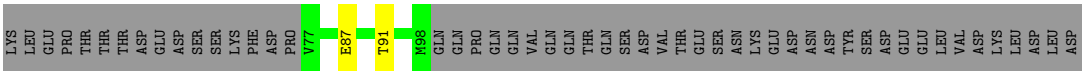
• Molecule 6: Tail fibre protein

Chain JC:



• Molecule 6: Tail fibre protein

Chain KC:

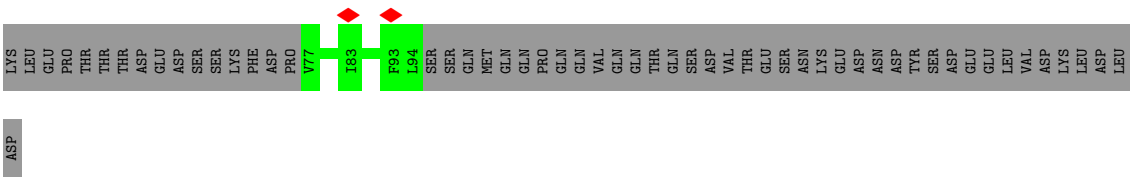


• Molecule 6: Tail fibre protein

Chain LC:

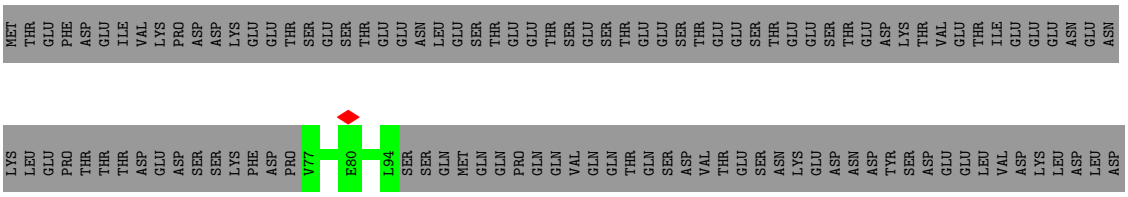
• Molecule 6: Tail fibre protein

Chain GF:



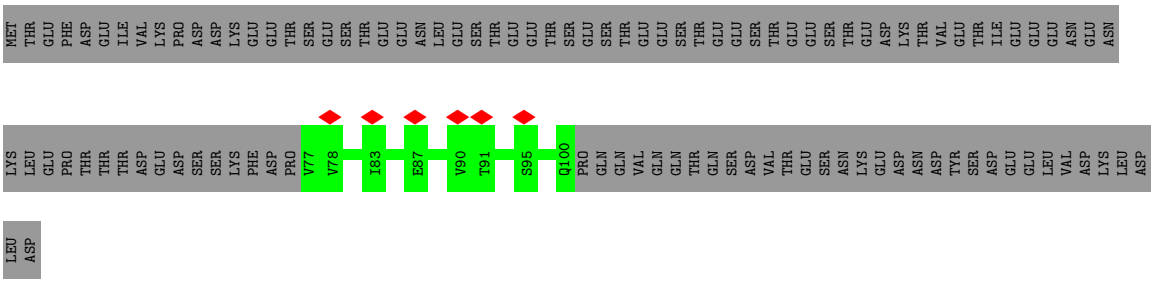
• Molecule 6: Tail fibre protein

Chain HF:



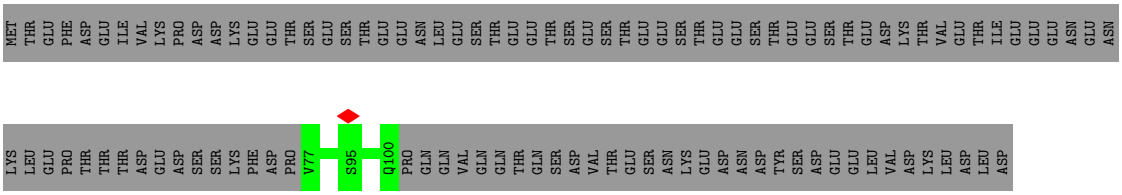
• Molecule 6: Tail fibre protein

Chain IF:



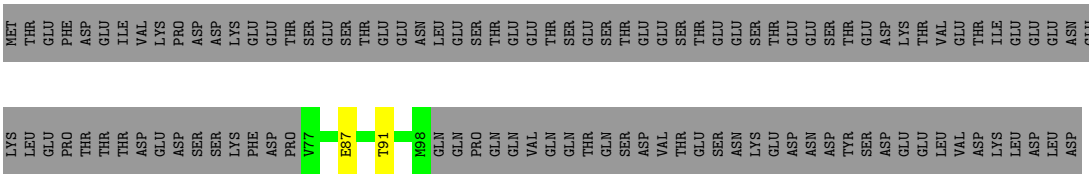
• Molecule 6: Tail fibre protein

Chain JF:



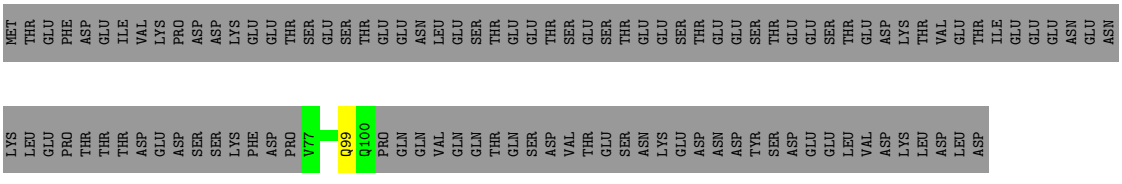
• Molecule 6: Tail fibre protein

Chain KF:



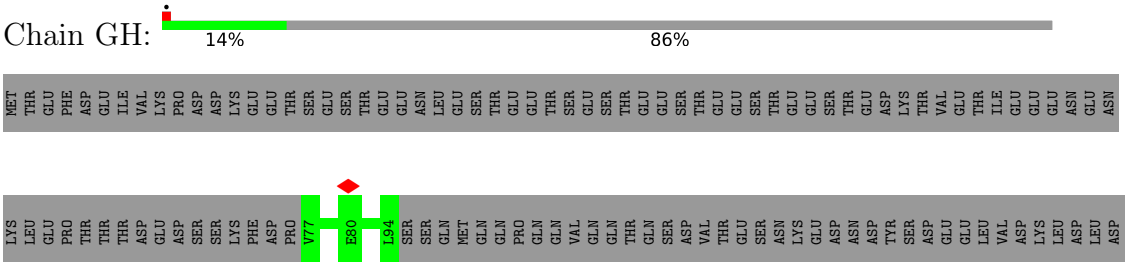
• Molecule 6: Tail fibre protein

Chain LF:



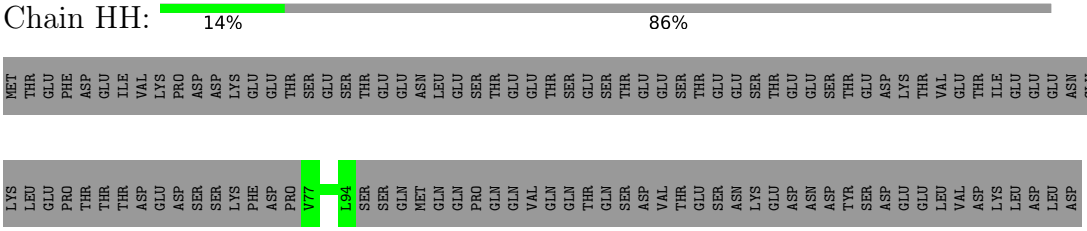
• Molecule 6: Tail fibre protein

Chain GH:



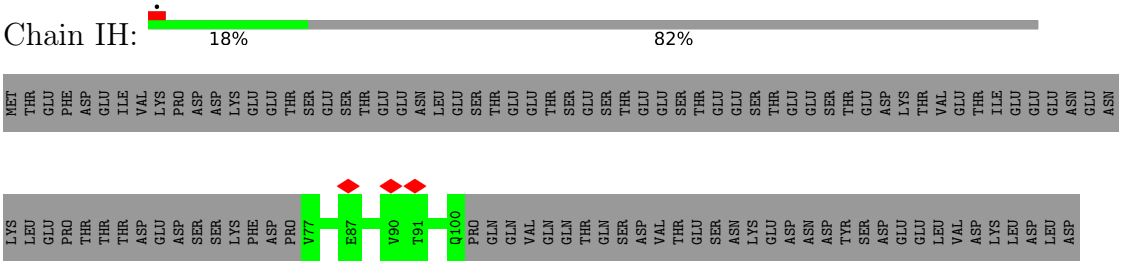
• Molecule 6: Tail fibre protein

Chain HH:



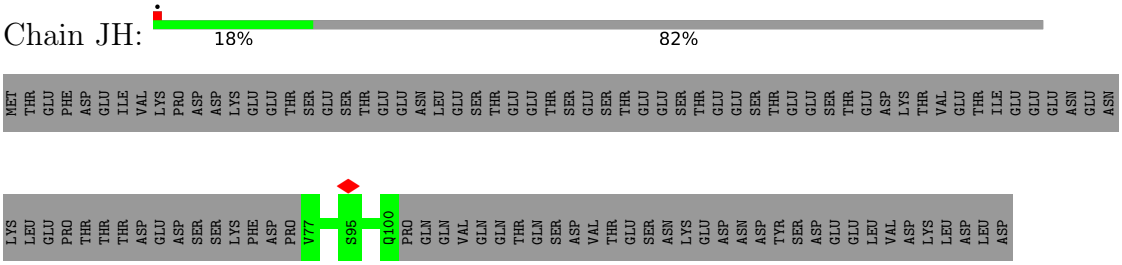
• Molecule 6: Tail fibre protein

Chain IH:



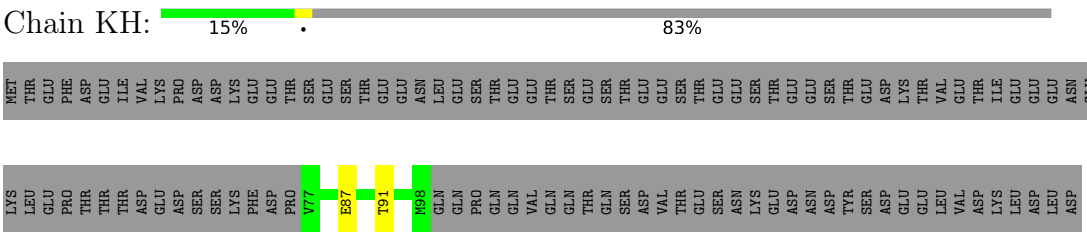
• Molecule 6: Tail fibre protein

Chain JH:



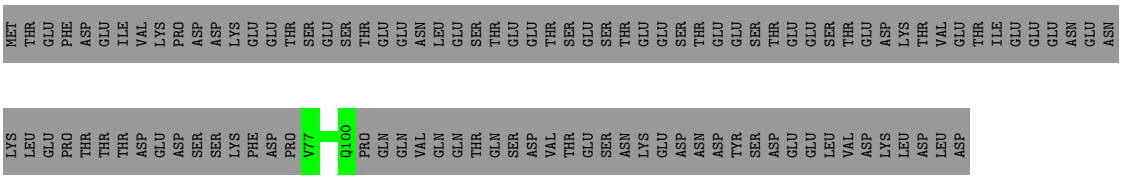
• Molecule 6: Tail fibre protein

Chain KH:



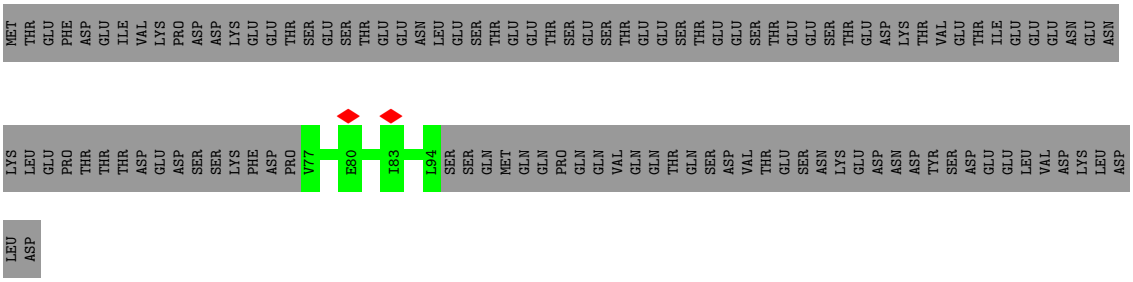
• Molecule 6: Tail fibre protein

Chain LH:



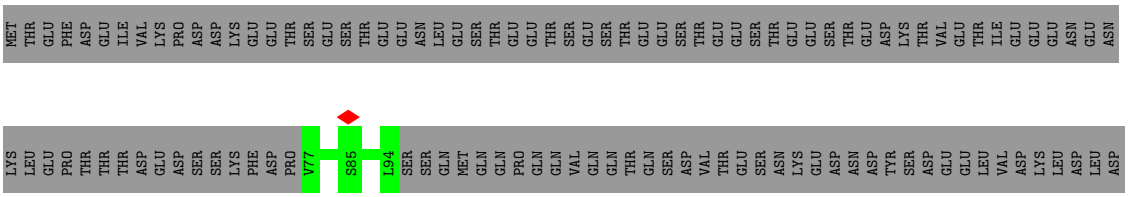
• Molecule 6: Tail fibre protein

Chain GI:



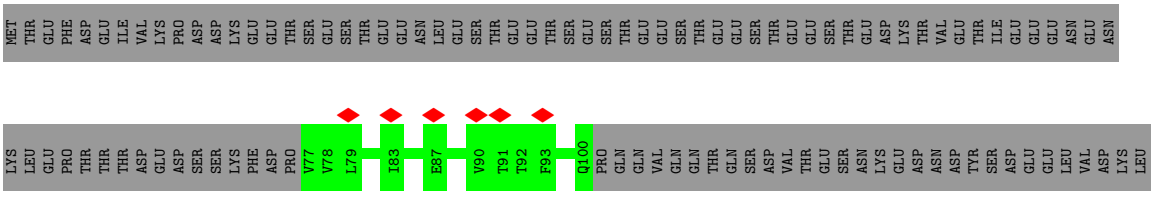
• Molecule 6: Tail fibre protein

Chain HI:



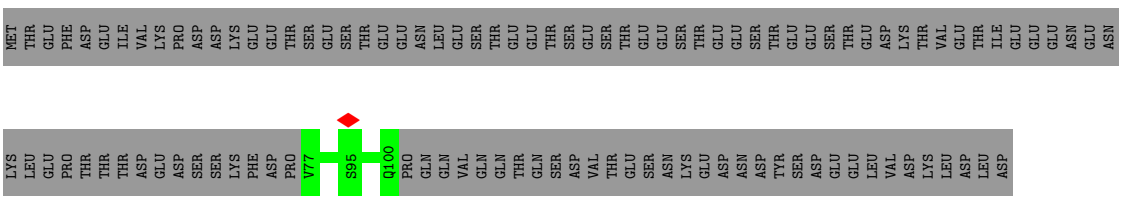
• Molecule 6: Tail fibre protein

Chain II:



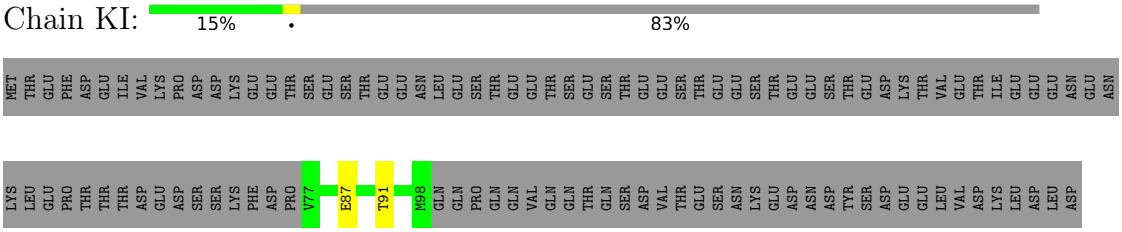
• Molecule 6: Tail fibre protein

Chain JI:



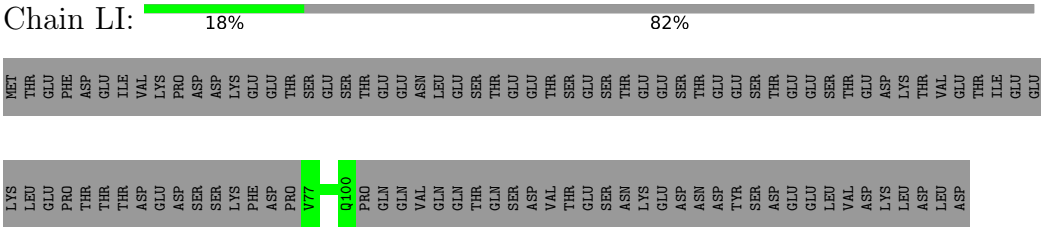
• Molecule 6: Tail fibre protein

Chain KI:



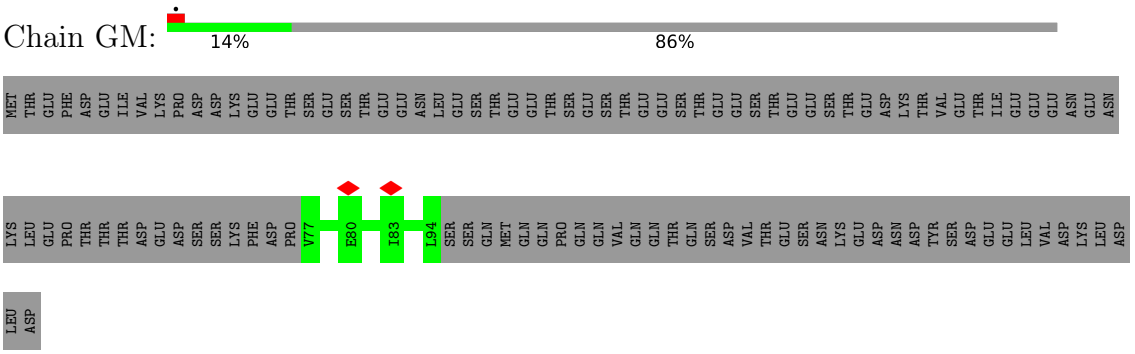
• Molecule 6: Tail fibre protein

Chain LI:



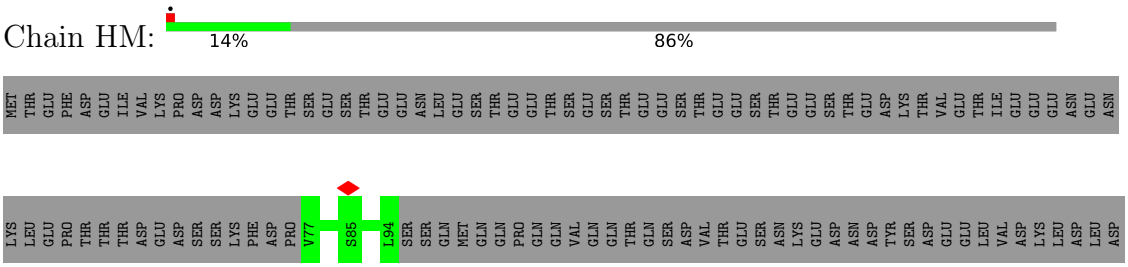
• Molecule 6: Tail fibre protein

Chain GM:



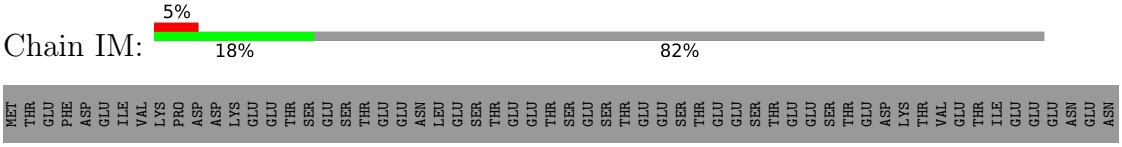
• Molecule 6: Tail fibre protein

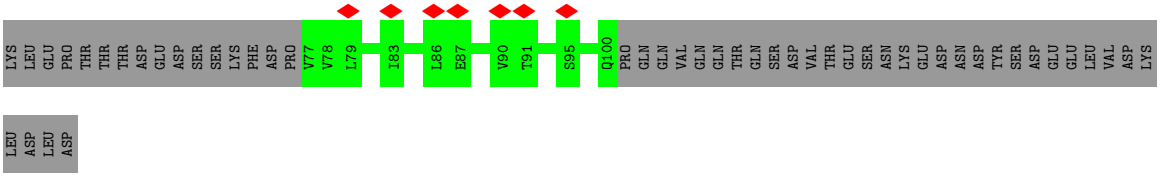
Chain HM:



• Molecule 6: Tail fibre protein

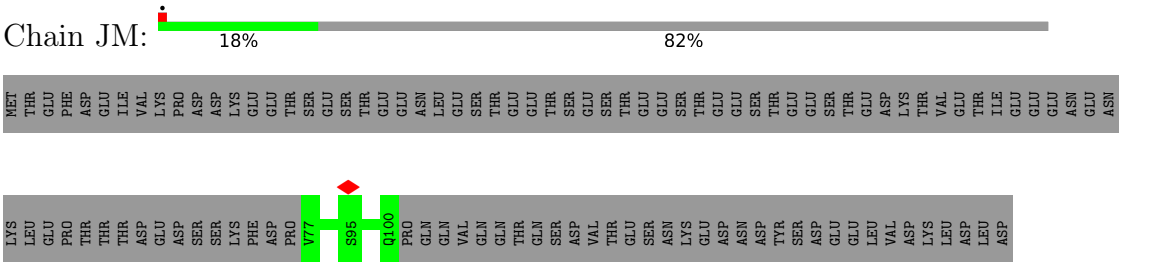
Chain IM:





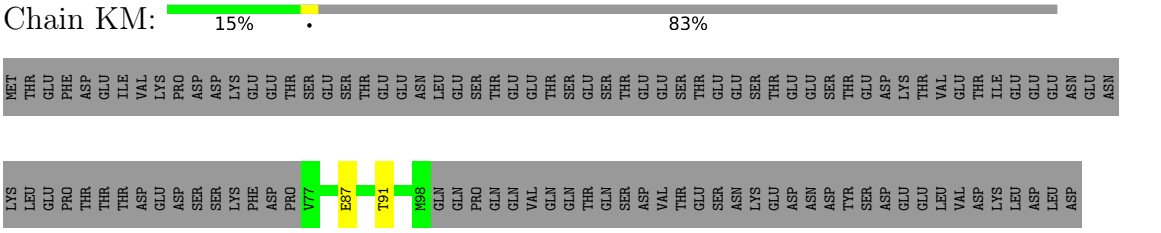
• Molecule 6: Tail fibre protein

Chain JM:



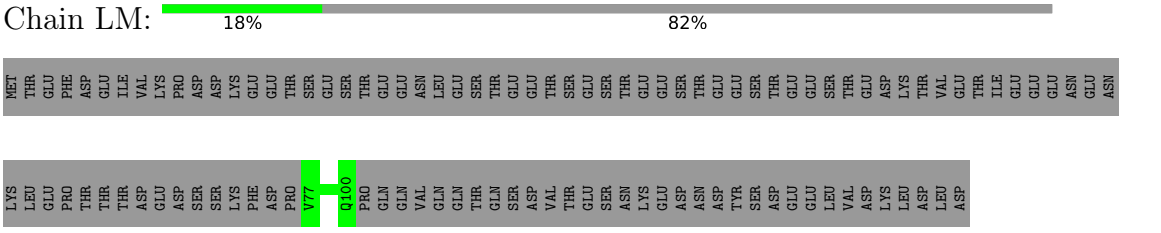
• Molecule 6: Tail fibre protein

Chain KM:



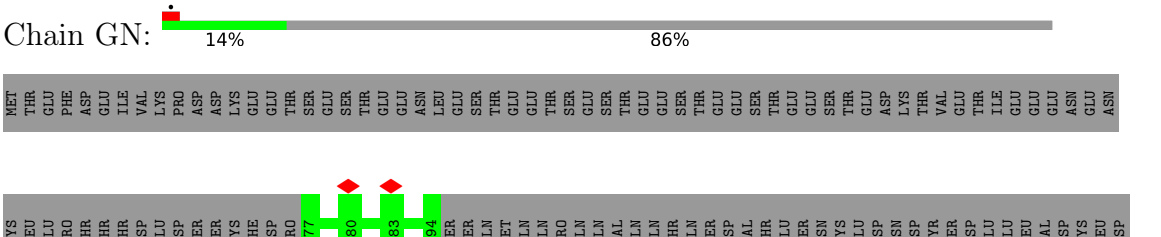
• Molecule 6: Tail fibre protein

Chain LM:



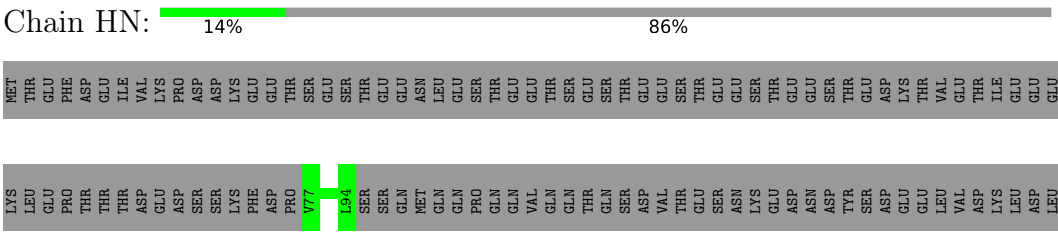
• Molecule 6: Tail fibre protein

Chain GN:



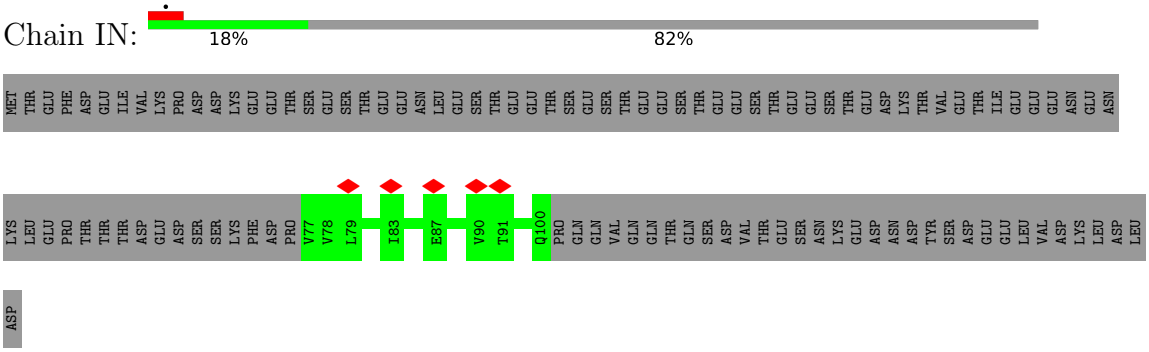
• Molecule 6: Tail fibre protein

Chain HN:



• Molecule 6: Tail fibre protein

Chain IN:



• Molecule 6: Tail fibre protein

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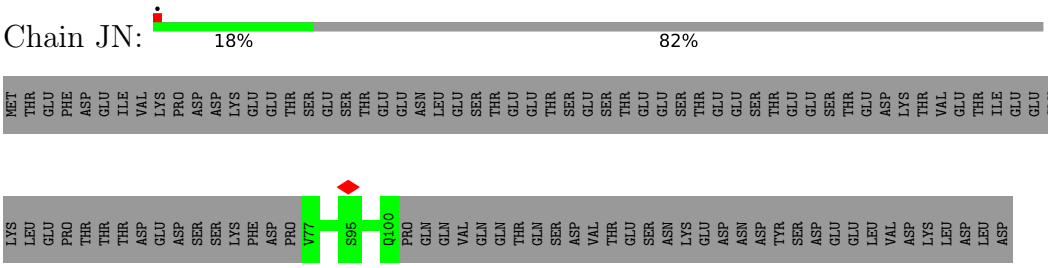
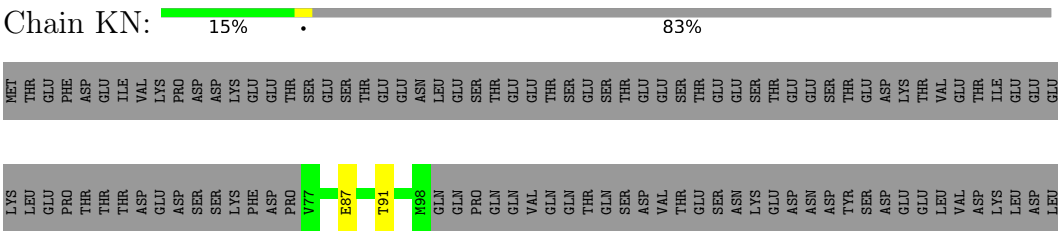


• Molecule 6: Tail fibre protein

Chain KN:



• Molecule 6: Tail fibre protein

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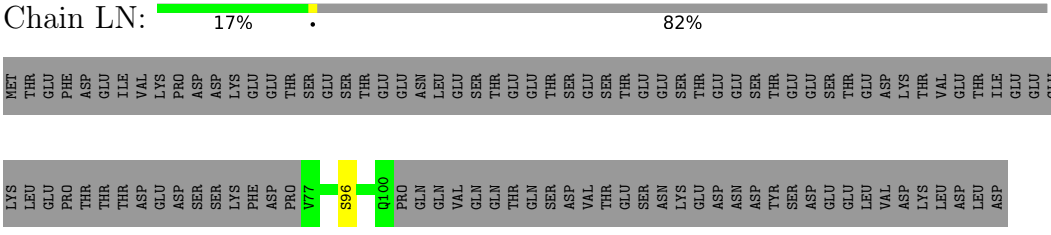
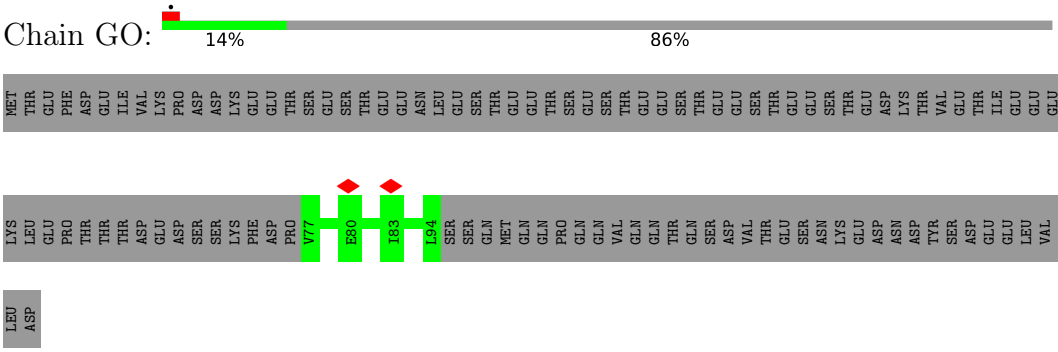


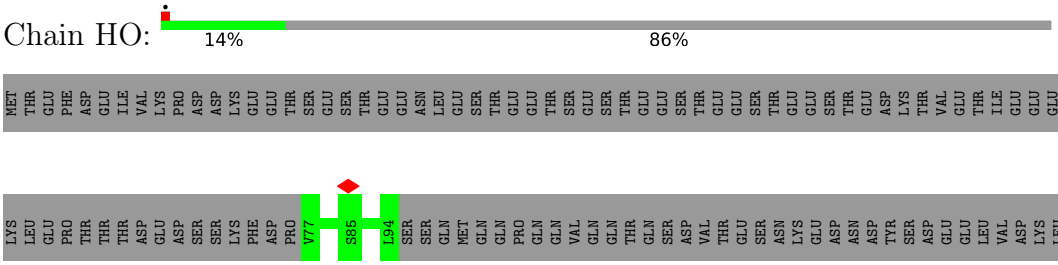
• Molecule 6: Tail fibre protein

Chain GO:



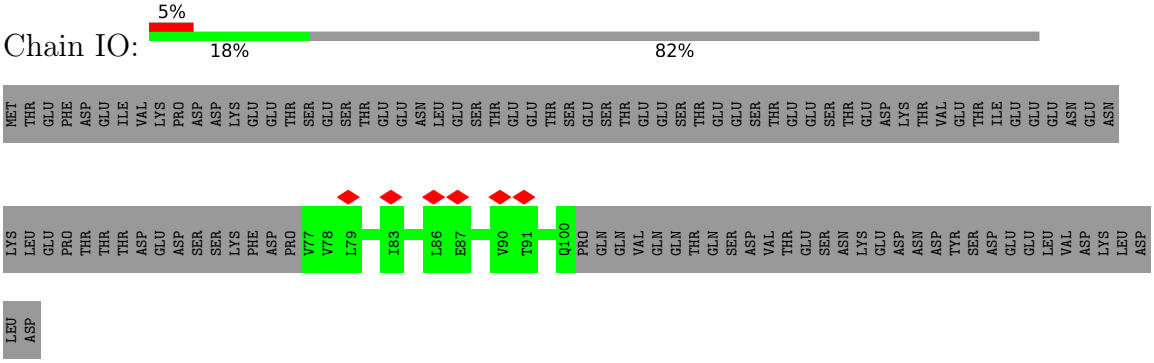
• Molecule 6: Tail fibre protein

Chain HO:



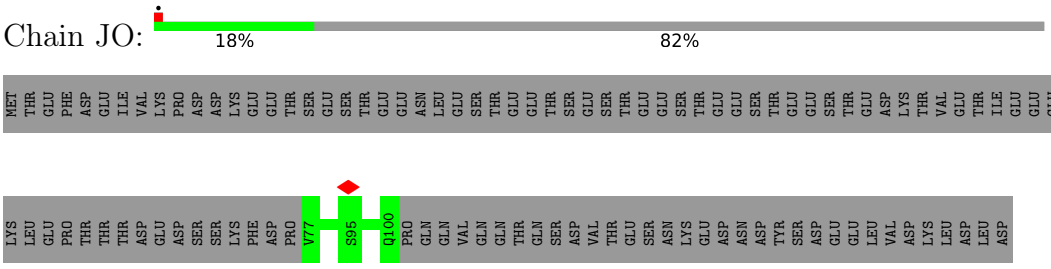
• Molecule 6: Tail fibre protein

Chain IO:



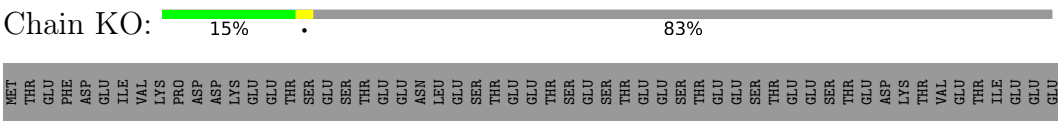
• Molecule 6: Tail fibre protein

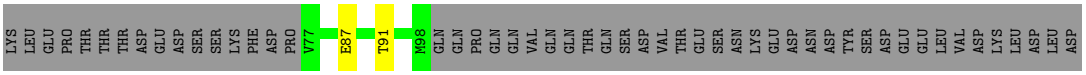
Chain JO:



• Molecule 6: Tail fibre protein

Chain KO:



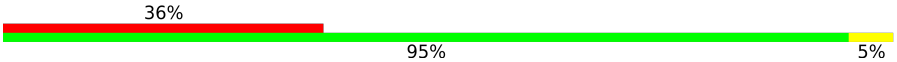


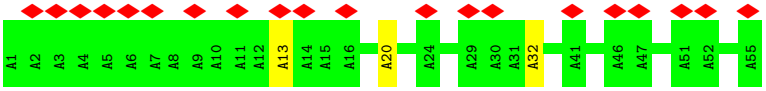
• Molecule 6: Tail fibre protein

Chain LO:

• Molecule 7: Head fiber protein

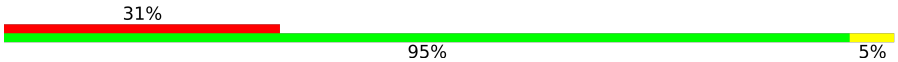
Chain ID:

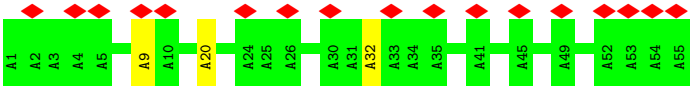




• Molecule 7: Head fiber protein

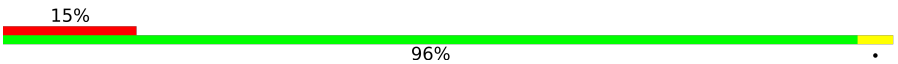
Chain OD:

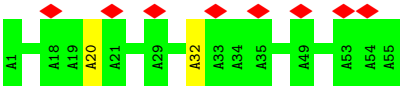




• Molecule 7: Head fiber protein

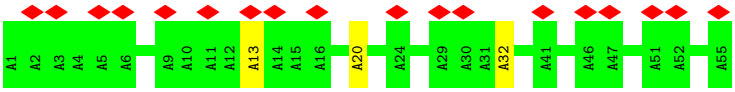
Chain SD:





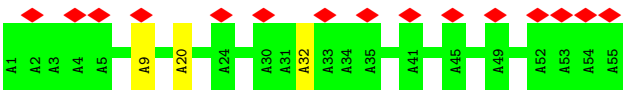
• Molecule 7: Head fiber protein

Chain IJ:



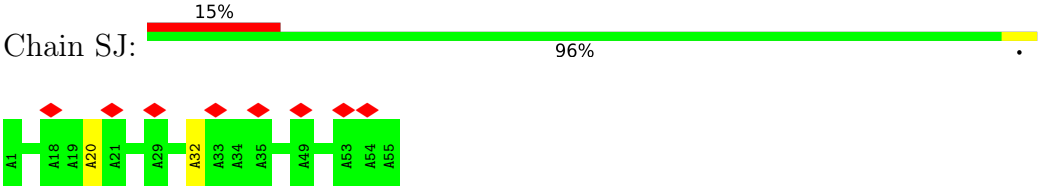
• Molecule 7: Head fiber protein

Chain OJ:



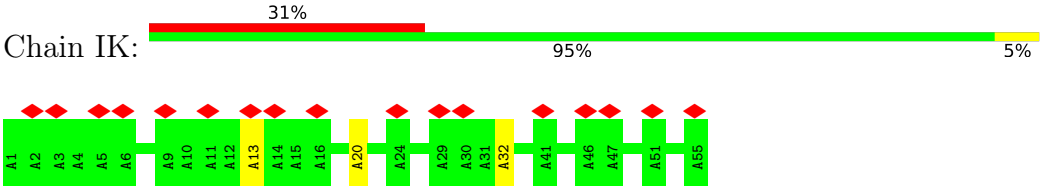
• Molecule 7: Head fiber protein

Chain SJ:



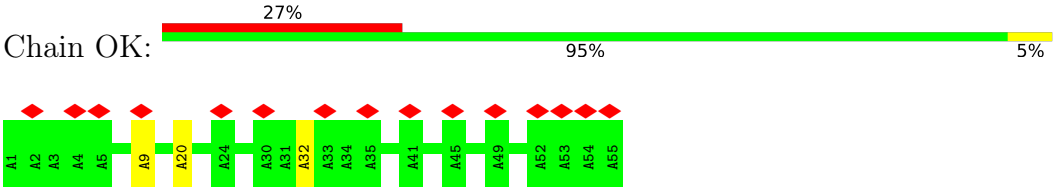
• Molecule 7: Head fiber protein

Chain IK:



• Molecule 7: Head fiber protein

Chain OK:



• Molecule 7: Head fiber protein

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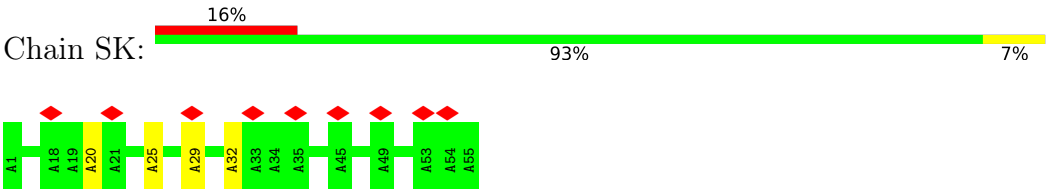
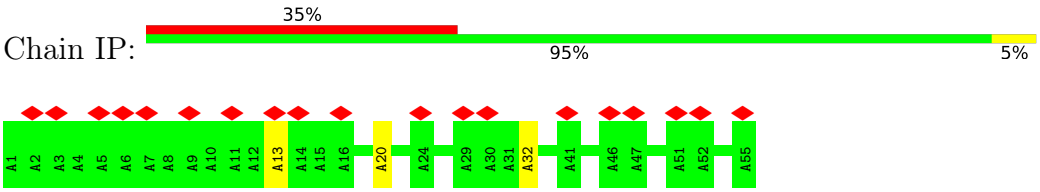


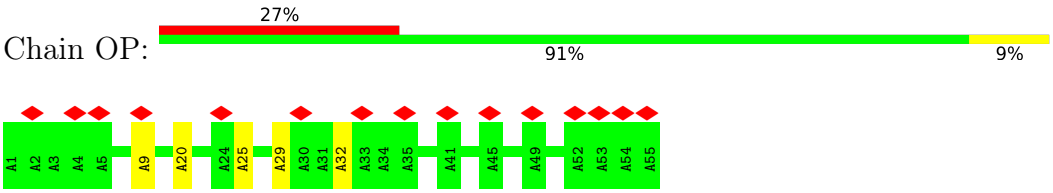
• Molecule 7: Head fiber protein

Chain IP:



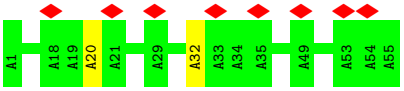
• Molecule 7: Head fiber protein

Chain OP:



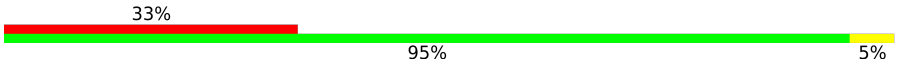
• Molecule 7: Head fiber protein

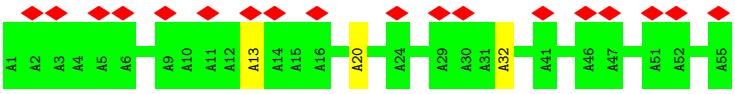
Chain SP:



• Molecule 7: Head fiber protein

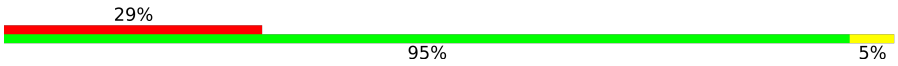
Chain HS:

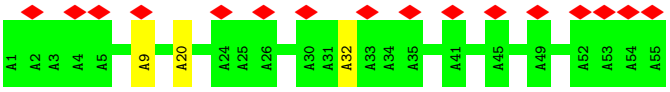




• Molecule 7: Head fiber protein

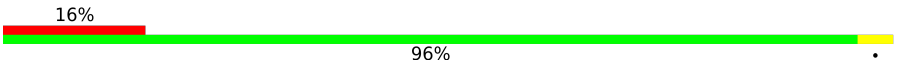
Chain NS:

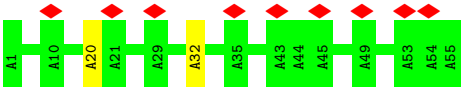




• Molecule 7: Head fiber protein

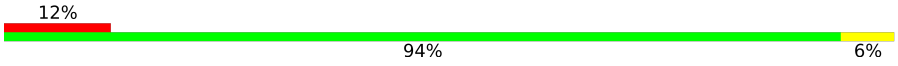
Chain SS:

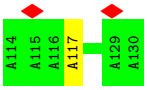




• Molecule 8: Inner core protein

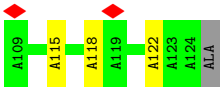
Chain PD:





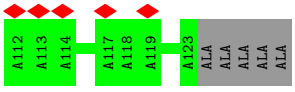
• Molecule 8: Inner core protein

Chain QD:



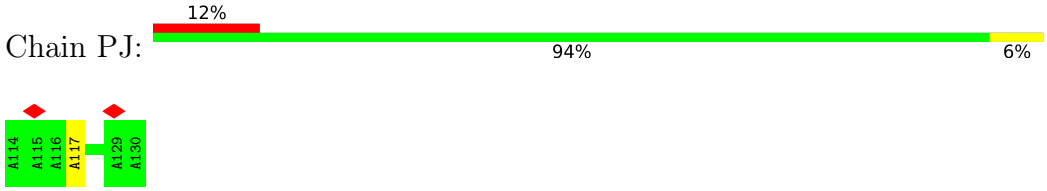
• Molecule 8: Inner core protein

Chain RD:



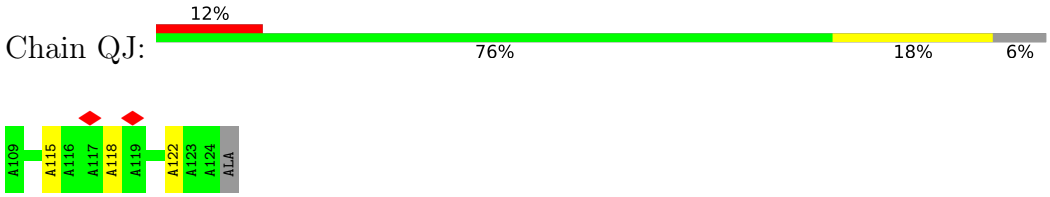
• Molecule 8: Inner core protein

Chain PJ:



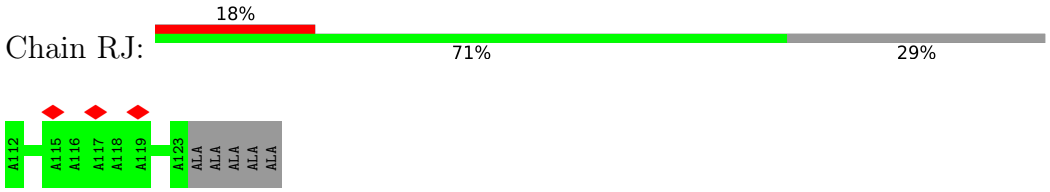
• Molecule 8: Inner core protein

Chain QJ:



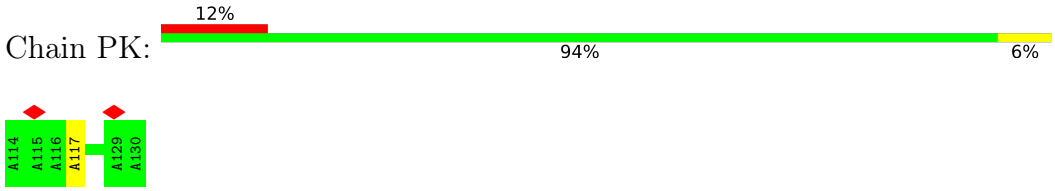
• Molecule 8: Inner core protein

Chain RJ:



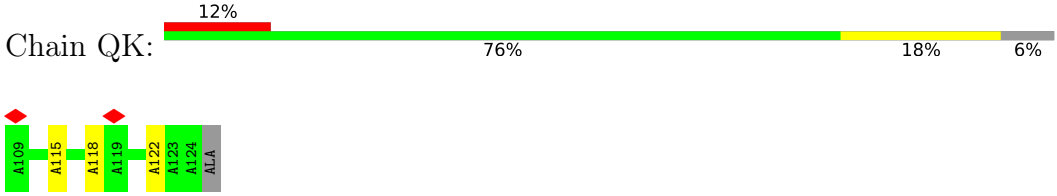
• Molecule 8: Inner core protein

Chain PK:



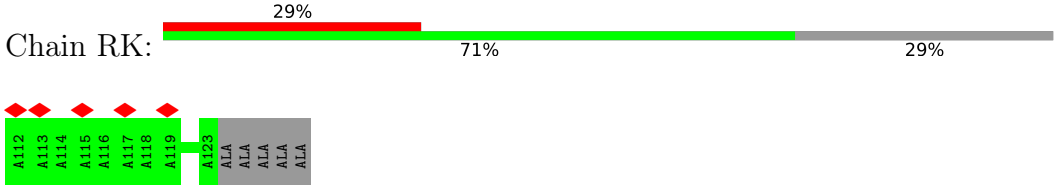
• Molecule 8: Inner core protein

Chain QK:



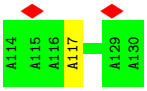
• Molecule 8: Inner core protein

Chain RK:



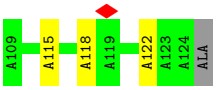
• Molecule 8: Inner core protein

Chain PP:



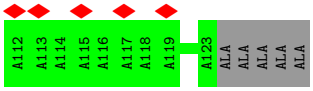
• Molecule 8: Inner core protein

Chain QP:



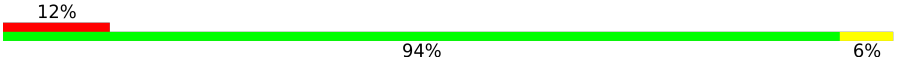
• Molecule 8: Inner core protein

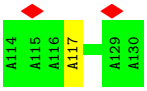
Chain RP:



• Molecule 8: Inner core protein

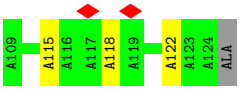
Chain PS:





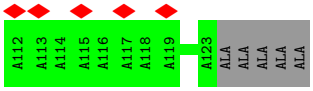
• Molecule 8: Inner core protein

Chain QS:



• Molecule 8: Inner core protein

Chain RS:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	33612	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	21	Depositor
Minimum defocus (nm)	1.0	Depositor
Maximum defocus (nm)	3.0	Depositor
Magnification	75000	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.415	Depositor
Minimum map value	-0.194	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.009	Depositor
Recommended contour level	0.025	Depositor
Map size (Å)	1063.0, 1063.0, 1063.0	wwPDB
Map dimensions	1000, 1000, 1000	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.063, 1.063, 1.063	Depositor

5 Model quality

5.1 Standard geometry

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	A1	0.41	0/3244	0.72	5/4381 (0.1%)
1	A3	0.41	0/3244	0.72	5/4381 (0.1%)
1	A4	0.41	0/3244	0.72	5/4381 (0.1%)
1	A6	0.41	0/3244	0.72	5/4381 (0.1%)
1	A7	0.41	0/3244	0.72	5/4381 (0.1%)
1	A8	0.41	0/3244	0.72	5/4381 (0.1%)
1	AD	0.66	10/2875 (0.3%)	0.98	16/3887 (0.4%)
1	AE	0.46	0/3190	0.71	8/4310 (0.2%)
1	AG	0.41	0/3244	0.72	5/4381 (0.1%)
1	AJ	0.66	10/2875 (0.3%)	0.98	16/3887 (0.4%)
1	AK	0.66	11/2875 (0.4%)	0.98	16/3887 (0.4%)
1	AL	0.41	0/3244	0.72	5/4381 (0.1%)
1	AP	0.66	11/2875 (0.4%)	0.98	16/3887 (0.4%)
1	AQ	0.41	0/3244	0.72	5/4381 (0.1%)
1	AR	0.41	0/3244	0.72	5/4381 (0.1%)
1	AS	0.39	0/3257	0.71	0/4400
1	B1	0.41	0/3190	0.63	5/4310 (0.1%)
1	B3	0.41	0/3190	0.63	4/4310 (0.1%)
1	B4	0.41	0/3190	0.63	5/4310 (0.1%)
1	B6	0.41	0/3190	0.63	5/4310 (0.1%)
1	B7	0.41	0/3190	0.63	4/4310 (0.1%)
1	B8	0.41	0/3190	0.63	5/4310 (0.1%)
1	BD	0.39	0/3257	0.71	0/4400
1	BE	0.41	0/3244	0.72	5/4381 (0.1%)
1	BG	0.41	0/3190	0.63	4/4310 (0.1%)
1	BJ	0.39	0/3257	0.70	0/4400
1	BK	0.39	0/3257	0.71	0/4400
1	BL	0.41	0/3190	0.63	5/4310 (0.1%)
1	BP	0.39	0/3257	0.71	0/4400
1	BQ	0.41	0/3190	0.63	5/4310 (0.1%)
1	BR	0.41	0/3190	0.63	5/4310 (0.1%)
1	BS	0.37	0/3202	0.67	1/4326 (0.0%)
1	C1	0.46	0/3190	0.71	8/4310 (0.2%)
1	C3	0.46	0/3190	0.71	8/4310 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	C4	0.46	0/3190	0.71	8/4310 (0.2%)
1	C6	0.46	0/3190	0.71	8/4310 (0.2%)
1	C7	0.46	0/3190	0.71	8/4310 (0.2%)
1	C8	0.46	0/3190	0.71	8/4310 (0.2%)
1	CD	0.37	0/3202	0.67	1/4326 (0.0%)
1	CE	0.41	0/3190	0.63	5/4310 (0.1%)
1	CG	0.46	0/3190	0.71	8/4310 (0.2%)
1	CJ	0.37	0/3202	0.67	1/4326 (0.0%)
1	CK	0.37	0/3202	0.67	1/4326 (0.0%)
1	CL	0.46	0/3190	0.71	8/4310 (0.2%)
1	CP	0.37	0/3202	0.67	1/4326 (0.0%)
1	CQ	0.46	0/3190	0.71	8/4310 (0.2%)
1	CR	0.46	0/3190	0.71	8/4310 (0.2%)
1	CS	0.39	0/3198	0.70	1/4321 (0.0%)
1	D1	0.34	0/3257	0.59	1/4400 (0.0%)
1	D3	0.34	0/3257	0.59	1/4400 (0.0%)
1	D4	0.34	0/3257	0.59	1/4400 (0.0%)
1	D6	0.34	0/3257	0.59	1/4400 (0.0%)
1	D7	0.34	0/3257	0.59	1/4400 (0.0%)
1	D8	0.34	0/3257	0.59	1/4400 (0.0%)
1	DD	0.39	0/3198	0.69	1/4321 (0.0%)
1	DE	0.34	0/3257	0.59	1/4400 (0.0%)
1	DG	0.34	0/3257	0.59	1/4400 (0.0%)
1	DJ	0.39	0/3198	0.69	1/4321 (0.0%)
1	DK	0.39	0/3198	0.69	1/4321 (0.0%)
1	DL	0.34	0/3257	0.59	1/4400 (0.0%)
1	DP	0.39	0/3198	0.69	1/4321 (0.0%)
1	DQ	0.34	0/3257	0.59	1/4400 (0.0%)
1	DR	0.34	0/3257	0.59	1/4400 (0.0%)
1	FE	0.34	0/3257	0.59	1/4400 (0.0%)
1	I1	0.46	0/3190	0.71	8/4310 (0.2%)
1	I3	0.46	0/3190	0.71	8/4310 (0.2%)
1	I4	0.46	0/3190	0.71	8/4310 (0.2%)
1	I6	0.46	0/3190	0.71	8/4310 (0.2%)
1	I7	0.46	0/3190	0.71	8/4310 (0.2%)
1	I8	0.46	0/3190	0.71	8/4310 (0.2%)
1	IG	0.46	0/3190	0.71	8/4310 (0.2%)
1	IL	0.46	0/3190	0.71	8/4310 (0.2%)
1	IQ	0.46	0/3190	0.71	8/4310 (0.2%)
1	IR	0.46	0/3190	0.71	8/4310 (0.2%)
1	IS	0.66	10/2875 (0.3%)	0.98	16/3887 (0.4%)
1	J1	0.41	0/3244	0.72	5/4381 (0.1%)
1	J3	0.41	0/3244	0.72	5/4381 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	J4	0.41	0/3244	0.72	5/4381 (0.1%)
1	J6	0.41	0/3244	0.72	5/4381 (0.1%)
1	J7	0.41	0/3244	0.72	5/4381 (0.1%)
1	J8	0.41	0/3244	0.72	5/4381 (0.1%)
1	JG	0.41	0/3244	0.72	5/4381 (0.1%)
1	JL	0.41	0/3244	0.72	5/4381 (0.1%)
1	JQ	0.41	0/3244	0.72	5/4381 (0.1%)
1	JR	0.41	0/3244	0.72	5/4381 (0.1%)
1	JS	0.37	0/3168	0.71	0/4279
1	K1	0.41	0/3190	0.63	5/4310 (0.1%)
1	K3	0.41	0/3190	0.63	5/4310 (0.1%)
1	K4	0.41	0/3190	0.63	4/4310 (0.1%)
1	K6	0.41	0/3190	0.63	5/4310 (0.1%)
1	K7	0.41	0/3190	0.63	5/4310 (0.1%)
1	K8	0.41	0/3190	0.63	4/4310 (0.1%)
1	KD	0.37	0/3168	0.71	0/4279
1	KE	0.46	0/3190	0.71	8/4310 (0.2%)
1	KG	0.41	0/3190	0.63	4/4310 (0.1%)
1	KJ	0.37	0/3168	0.71	0/4279
1	KK	0.37	0/3168	0.71	0/4279
1	KL	0.41	0/3190	0.63	4/4310 (0.1%)
1	KP	0.37	0/3168	0.71	0/4279
1	KQ	0.41	0/3190	0.63	4/4310 (0.1%)
1	KR	0.41	0/3190	0.63	5/4310 (0.1%)
1	KS	0.38	0/3202	0.68	0/4326
1	L1	0.34	0/3257	0.59	1/4400 (0.0%)
1	L3	0.34	0/3257	0.59	1/4400 (0.0%)
1	L4	0.34	0/3257	0.59	1/4400 (0.0%)
1	L6	0.34	0/3257	0.59	1/4400 (0.0%)
1	L7	0.34	0/3257	0.59	1/4400 (0.0%)
1	L8	0.34	0/3257	0.59	1/4400 (0.0%)
1	LD	0.38	0/3202	0.68	0/4326
1	LE	0.41	0/3244	0.72	5/4381 (0.1%)
1	LG	0.34	0/3257	0.59	1/4400 (0.0%)
1	LJ	0.38	0/3202	0.68	0/4326
1	LK	0.38	0/3202	0.68	0/4326
1	LL	0.34	0/3257	0.59	1/4400 (0.0%)
1	LP	0.38	0/3202	0.68	0/4326
1	LQ	0.34	0/3257	0.59	1/4400 (0.0%)
1	LR	0.34	0/3257	0.59	1/4400 (0.0%)
1	ME	0.41	0/3190	0.63	4/4310 (0.1%)
1	NE	0.34	0/3257	0.59	1/4400 (0.0%)
1	Q1	0.46	0/3190	0.71	8/4310 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Q3	0.46	0/3190	0.71	8/4310 (0.2%)
1	Q4	0.46	0/3190	0.71	8/4310 (0.2%)
1	Q6	0.46	0/3190	0.71	8/4310 (0.2%)
1	Q7	0.46	0/3190	0.71	8/4310 (0.2%)
1	Q8	0.46	0/3190	0.71	8/4310 (0.2%)
1	QG	0.46	0/3190	0.71	8/4310 (0.2%)
1	QL	0.46	0/3190	0.71	8/4310 (0.2%)
1	QQ	0.46	0/3190	0.71	8/4310 (0.2%)
1	QR	0.46	0/3190	0.71	8/4310 (0.2%)
1	R1	0.41	0/3244	0.72	5/4381 (0.1%)
1	R3	0.41	0/3244	0.72	5/4381 (0.1%)
1	R4	0.41	0/3244	0.72	5/4381 (0.1%)
1	R6	0.41	0/3244	0.72	5/4381 (0.1%)
1	R7	0.41	0/3244	0.72	5/4381 (0.1%)
1	R8	0.41	0/3244	0.72	5/4381 (0.1%)
1	RG	0.41	0/3244	0.72	5/4381 (0.1%)
1	RL	0.41	0/3244	0.72	5/4381 (0.1%)
1	RQ	0.41	0/3244	0.72	5/4381 (0.1%)
1	RR	0.41	0/3244	0.72	5/4381 (0.1%)
1	S1	0.41	0/3190	0.63	4/4310 (0.1%)
1	S3	0.41	0/3190	0.63	5/4310 (0.1%)
1	S4	0.41	0/3190	0.63	5/4310 (0.1%)
1	S6	0.41	0/3190	0.63	5/4310 (0.1%)
1	S7	0.41	0/3190	0.63	5/4310 (0.1%)
1	S8	0.41	0/3190	0.63	5/4310 (0.1%)
1	SE	0.46	0/3190	0.71	8/4310 (0.2%)
1	SG	0.41	0/3190	0.63	5/4310 (0.1%)
1	SL	0.41	0/3190	0.63	4/4310 (0.1%)
1	SQ	0.41	0/3190	0.63	4/4310 (0.1%)
1	SR	0.41	0/3190	0.63	5/4310 (0.1%)
1	T1	0.34	0/3257	0.59	1/4400 (0.0%)
1	T3	0.34	0/3257	0.59	1/4400 (0.0%)
1	T4	0.34	0/3257	0.59	1/4400 (0.0%)
1	T6	0.34	0/3257	0.59	1/4400 (0.0%)
1	T7	0.34	0/3257	0.59	1/4400 (0.0%)
1	T8	0.34	0/3257	0.59	1/4400 (0.0%)
1	TE	0.41	0/3244	0.72	5/4381 (0.1%)
1	TG	0.34	0/3257	0.59	1/4400 (0.0%)
1	TL	0.34	0/3257	0.59	1/4400 (0.0%)
1	TQ	0.34	0/3257	0.59	1/4400 (0.0%)
1	TR	0.34	0/3257	0.59	1/4400 (0.0%)
1	UE	0.41	0/3190	0.63	5/4310 (0.1%)
1	VE	0.34	0/3257	0.59	1/4400 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	X1	0.46	0/3190	0.71	8/4310 (0.2%)
1	X4	0.46	0/3190	0.71	8/4310 (0.2%)
1	Y1	0.41	0/3244	0.72	5/4381 (0.1%)
1	Y3	0.34	0/3257	0.59	1/4400 (0.0%)
1	Y4	0.41	0/3244	0.72	5/4381 (0.1%)
1	Y6	0.46	0/3190	0.71	8/4310 (0.2%)
1	Y7	0.46	0/3190	0.71	8/4310 (0.2%)
1	Y8	0.46	0/3190	0.71	8/4310 (0.2%)
1	YG	0.46	0/3190	0.71	8/4310 (0.2%)
1	YL	0.46	0/3190	0.71	8/4310 (0.2%)
1	YQ	0.34	0/3257	0.59	1/4400 (0.0%)
1	YR	0.46	0/3190	0.71	8/4310 (0.2%)
1	Z1	0.41	0/3190	0.63	4/4310 (0.1%)
1	Z4	0.41	0/3190	0.63	5/4310 (0.1%)
1	Z6	0.41	0/3244	0.72	5/4381 (0.1%)
1	Z7	0.41	0/3244	0.72	5/4381 (0.1%)
1	Z8	0.41	0/3244	0.72	5/4381 (0.1%)
1	ZG	0.41	0/3244	0.72	5/4381 (0.1%)
1	ZL	0.41	0/3244	0.72	5/4381 (0.1%)
1	ZR	0.41	0/3244	0.72	5/4381 (0.1%)
1	a1	0.34	0/3257	0.59	1/4400 (0.0%)
1	a4	0.34	0/3257	0.59	1/4400 (0.0%)
1	a6	0.41	0/3190	0.63	5/4310 (0.1%)
1	a7	0.41	0/3190	0.63	5/4310 (0.1%)
1	a8	0.41	0/3190	0.63	4/4310 (0.1%)
1	aE	0.46	0/3190	0.71	8/4310 (0.2%)
1	aG	0.41	0/3190	0.63	5/4310 (0.1%)
1	aL	0.41	0/3190	0.63	5/4310 (0.1%)
1	aR	0.41	0/3190	0.63	5/4310 (0.1%)
1	b3	0.34	0/3257	0.59	1/4400 (0.0%)
1	b6	0.34	0/3257	0.59	1/4400 (0.0%)
1	b7	0.34	0/3257	0.59	1/4400 (0.0%)
1	b8	0.34	0/3257	0.59	1/4400 (0.0%)
1	bE	0.41	0/3244	0.72	5/4381 (0.1%)
1	bG	0.34	0/3257	0.59	1/4400 (0.0%)
1	bL	0.34	0/3257	0.59	1/4400 (0.0%)
1	bQ	0.46	0/3190	0.71	8/4310 (0.2%)
1	bR	0.34	0/3257	0.59	1/4400 (0.0%)
1	cE	0.41	0/3190	0.63	4/4310 (0.1%)
1	cQ	0.41	0/3244	0.72	5/4381 (0.1%)
1	dE	0.34	0/3257	0.59	1/4400 (0.0%)
1	dQ	0.41	0/3190	0.63	4/4310 (0.1%)
1	eQ	0.34	0/3257	0.59	1/4400 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	f1	0.46	0/3190	0.71	8/4310 (0.2%)
1	f4	0.46	0/3190	0.71	8/4310 (0.2%)
1	g1	0.41	0/3244	0.72	5/4381 (0.1%)
1	g4	0.41	0/3244	0.72	5/4381 (0.1%)
1	g6	0.46	0/3190	0.71	8/4310 (0.2%)
1	g7	0.46	0/3190	0.71	8/4310 (0.2%)
1	g8	0.46	0/3190	0.71	8/4310 (0.2%)
1	gG	0.46	0/3190	0.71	8/4310 (0.2%)
1	gL	0.34	0/3257	0.59	1/4400 (0.0%)
1	gR	0.46	0/3190	0.71	8/4310 (0.2%)
1	h1	0.41	0/3190	0.63	4/4310 (0.1%)
1	h4	0.41	0/3190	0.63	4/4310 (0.1%)
1	h6	0.41	0/3244	0.72	5/4381 (0.1%)
1	h7	0.41	0/3244	0.72	5/4381 (0.1%)
1	h8	0.41	0/3244	0.72	5/4381 (0.1%)
1	hG	0.41	0/3244	0.72	5/4381 (0.1%)
1	hR	0.41	0/3244	0.72	5/4381 (0.1%)
1	i1	0.34	0/3257	0.59	1/4400 (0.0%)
1	i4	0.34	0/3257	0.59	1/4400 (0.0%)
1	i6	0.41	0/3190	0.63	4/4310 (0.1%)
1	i7	0.41	0/3190	0.63	5/4310 (0.1%)
1	i8	0.41	0/3190	0.63	5/4310 (0.1%)
1	iG	0.41	0/3190	0.63	4/4310 (0.1%)
1	iR	0.41	0/3190	0.63	5/4310 (0.1%)
1	j6	0.34	0/3257	0.59	1/4400 (0.0%)
1	j7	0.34	0/3257	0.59	1/4400 (0.0%)
1	j8	0.34	0/3257	0.59	1/4400 (0.0%)
1	jG	0.34	0/3257	0.59	1/4400 (0.0%)
1	jR	0.34	0/3257	0.59	1/4400 (0.0%)
2	DS	0.35	0/441	0.82	0/587
2	E1	0.60	0/436	1.52	12/581 (2.1%)
2	E3	0.60	0/436	1.53	12/581 (2.1%)
2	E4	0.60	0/436	1.52	12/581 (2.1%)
2	E6	0.60	0/436	1.52	12/581 (2.1%)
2	E7	0.60	0/436	1.52	12/581 (2.1%)
2	E8	0.60	0/436	1.52	12/581 (2.1%)
2	ED	0.35	0/441	0.83	0/587
2	EE	0.60	0/436	1.52	12/581 (2.1%)
2	EG	0.60	0/436	1.52	12/581 (2.1%)
2	EJ	0.35	0/441	0.82	0/587
2	EK	0.34	0/441	0.82	0/587
2	EL	0.60	0/436	1.52	12/581 (2.1%)
2	EP	0.35	0/441	0.82	0/587

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	EQ	0.60	0/436	1.52	12/581 (2.1%)
2	ER	0.60	0/436	1.52	12/581 (2.1%)
2	ES	0.39	0/441	1.06	3/587 (0.5%)
2	F1	0.39	0/440	0.98	2/586 (0.3%)
2	F3	0.39	0/440	0.98	2/586 (0.3%)
2	F4	0.39	0/440	0.98	2/586 (0.3%)
2	F6	0.39	0/440	0.98	2/586 (0.3%)
2	F7	0.39	0/440	0.99	2/586 (0.3%)
2	F8	0.39	0/440	0.98	2/586 (0.3%)
2	FD	0.39	0/441	1.06	3/587 (0.5%)
2	FG	0.39	0/440	0.99	2/586 (0.3%)
2	FJ	0.39	0/441	1.06	3/587 (0.5%)
2	FK	0.39	0/441	1.06	3/587 (0.5%)
2	FL	0.39	0/440	0.98	2/586 (0.3%)
2	FP	0.39	0/441	1.06	1/587 (0.2%)
2	FQ	0.39	0/440	0.98	2/586 (0.3%)
2	FR	0.39	0/440	0.98	2/586 (0.3%)
2	FS	0.39	0/239	0.97	0/320
2	G1	0.28	0/222	0.76	0/293
2	G3	0.28	0/222	0.76	0/293
2	G4	0.28	0/222	0.76	0/293
2	G6	0.28	0/222	0.76	0/293
2	G7	0.29	0/222	0.76	0/293
2	G8	0.28	0/222	0.76	0/293
2	GD	0.39	0/239	0.97	0/320
2	GE	0.28	0/222	0.76	0/293
2	GG	0.29	0/222	0.76	0/293
2	GJ	0.39	0/239	0.97	0/320
2	GK	0.39	0/239	0.96	0/320
2	GL	0.29	0/222	0.76	0/293
2	GP	0.39	0/239	0.97	0/320
2	GQ	0.29	0/222	0.76	0/293
2	GR	0.28	0/222	0.76	0/293
2	GS	0.36	0/437	0.97	1/582 (0.2%)
2	H1	0.42	0/439	0.87	0/585
2	H3	0.42	0/439	0.87	0/585
2	H4	0.42	0/439	0.87	0/585
2	H6	0.42	0/439	0.87	0/585
2	H7	0.42	0/439	0.87	0/585
2	H8	0.42	0/439	0.87	0/585
2	HD	0.36	0/437	0.97	1/582 (0.2%)
2	HE	0.39	0/440	0.98	2/586 (0.3%)
2	HG	0.42	0/439	0.87	0/585

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	HJ	0.36	0/437	0.97	1/582 (0.2%)
2	HK	0.36	0/437	0.97	1/582 (0.2%)
2	HL	0.42	0/439	0.87	0/585
2	HP	0.36	0/437	0.98	1/582 (0.2%)
2	HQ	0.42	0/439	0.87	0/585
2	HR	0.42	0/439	0.87	0/585
2	IE	0.28	0/222	0.76	0/293
2	JE	0.42	0/439	0.87	0/585
2	LS	0.34	0/441	0.86	0/587
2	M1	0.60	0/436	1.52	12/581 (2.1%)
2	M3	0.60	0/436	1.52	12/581 (2.1%)
2	M4	0.60	0/436	1.53	12/581 (2.1%)
2	M6	0.60	0/436	1.52	12/581 (2.1%)
2	M7	0.60	0/436	1.52	12/581 (2.1%)
2	M8	0.60	0/436	1.53	12/581 (2.1%)
2	MD	0.34	0/441	0.86	0/587
2	MG	0.60	0/436	1.53	12/581 (2.1%)
2	MJ	0.34	0/441	0.86	0/587
2	MK	0.34	0/441	0.86	0/587
2	ML	0.60	0/436	1.52	12/581 (2.1%)
2	MP	0.34	0/441	0.86	0/587
2	MQ	0.60	0/436	1.53	12/581 (2.1%)
2	MR	0.60	0/436	1.52	12/581 (2.1%)
2	MS	0.42	0/441	1.05	2/587 (0.3%)
2	N1	0.39	0/440	0.98	2/586 (0.3%)
2	N3	0.39	0/440	0.98	2/586 (0.3%)
2	N4	0.39	0/440	0.98	2/586 (0.3%)
2	N6	0.39	0/440	0.98	2/586 (0.3%)
2	N7	0.39	0/440	0.98	2/586 (0.3%)
2	N8	0.39	0/440	0.98	2/586 (0.3%)
2	ND	0.42	0/441	1.05	2/587 (0.3%)
2	NG	0.39	0/440	0.98	2/586 (0.3%)
2	NJ	0.42	0/441	1.05	2/587 (0.3%)
2	NK	0.42	0/441	1.05	2/587 (0.3%)
2	NL	0.39	0/440	0.99	2/586 (0.3%)
2	NP	0.42	0/441	1.05	2/587 (0.3%)
2	NQ	0.39	0/440	0.98	2/586 (0.3%)
2	NR	0.39	0/440	0.98	2/586 (0.3%)
2	O1	0.28	0/222	0.76	0/293
2	O3	0.28	0/222	0.76	0/293
2	O4	0.28	0/222	0.76	0/293
2	O6	0.29	0/222	0.76	0/293
2	O7	0.29	0/222	0.76	0/293

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	O8	0.28	0/222	0.76	0/293
2	OE	0.60	0/436	1.53	12/581 (2.1%)
2	OG	0.28	0/222	0.76	0/293
2	OL	0.29	0/222	0.76	0/293
2	OQ	0.28	0/222	0.76	0/293
2	OR	0.28	0/222	0.76	0/293
2	P1	0.42	0/439	0.87	0/585
2	P3	0.42	0/439	0.87	0/585
2	P4	0.42	0/439	0.87	0/585
2	P6	0.42	0/439	0.87	0/585
2	P7	0.42	0/439	0.87	0/585
2	P8	0.42	0/439	0.87	0/585
2	PE	0.39	0/440	0.98	2/586 (0.3%)
2	PG	0.42	0/439	0.87	0/585
2	PL	0.42	0/439	0.87	0/585
2	PQ	0.42	0/439	0.87	0/585
2	PR	0.42	0/439	0.87	0/585
2	QE	0.28	0/222	0.76	0/293
2	RE	0.42	0/439	0.87	0/585
2	U1	0.39	0/440	0.99	2/586 (0.3%)
2	U3	0.60	0/436	1.52	12/581 (2.1%)
2	U4	0.39	0/440	0.98	2/586 (0.3%)
2	U6	0.60	0/436	1.52	12/581 (2.1%)
2	U7	0.60	0/436	1.52	12/581 (2.1%)
2	U8	0.60	0/436	1.52	12/581 (2.1%)
2	UG	0.60	0/436	1.52	12/581 (2.1%)
2	UL	0.60	0/436	1.52	12/581 (2.1%)
2	UQ	0.60	0/436	1.52	12/581 (2.1%)
2	UR	0.60	0/436	1.52	12/581 (2.1%)
2	V1	0.29	0/222	0.76	0/293
2	V3	0.39	0/440	0.98	2/586 (0.3%)
2	V4	0.28	0/222	0.76	0/293
2	V6	0.39	0/440	0.98	2/586 (0.3%)
2	V7	0.39	0/440	0.98	2/586 (0.3%)
2	V8	0.39	0/440	0.98	2/586 (0.3%)
2	VG	0.39	0/440	0.98	2/586 (0.3%)
2	VL	0.39	0/440	0.99	2/586 (0.3%)
2	VQ	0.39	0/440	0.99	2/586 (0.3%)
2	VR	0.39	0/440	0.98	2/586 (0.3%)
2	W1	0.42	0/439	0.87	0/585
2	W3	0.28	0/222	0.76	0/293
2	W4	0.42	0/439	0.87	0/585
2	W6	0.29	0/222	0.76	0/293

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	W7	0.29	0/222	0.76	0/293
2	W8	0.28	0/222	0.76	0/293
2	WE	0.60	0/436	1.52	12/581 (2.1%)
2	WG	0.28	0/222	0.76	0/293
2	WL	0.29	0/222	0.76	0/293
2	WQ	0.29	0/222	0.76	0/293
2	WR	0.29	0/222	0.76	0/293
2	X3	0.42	0/439	0.87	0/585
2	X6	0.42	0/439	0.87	0/585
2	X7	0.42	0/439	0.87	0/585
2	X8	0.42	0/439	0.87	0/585
2	XE	0.39	0/440	0.98	2/586 (0.3%)
2	XG	0.42	0/439	0.87	0/585
2	XL	0.42	0/439	0.87	0/585
2	XQ	0.42	0/439	0.87	0/585
2	XR	0.42	0/439	0.87	0/585
2	YE	0.28	0/222	0.76	0/293
2	Z3	0.60	0/436	1.53	12/581 (2.1%)
2	ZE	0.42	0/439	0.87	0/585
2	ZQ	0.60	0/436	1.52	12/581 (2.1%)
2	a3	0.28	0/222	0.76	0/293
2	aQ	0.29	0/222	0.76	0/293
2	b1	0.60	0/436	1.52	12/581 (2.1%)
2	b4	0.60	0/436	1.52	12/581 (2.1%)
2	c1	0.39	0/440	0.99	2/586 (0.3%)
2	c3	0.60	0/436	1.52	12/581 (2.1%)
2	c4	0.39	0/440	0.98	2/586 (0.3%)
2	c6	0.60	0/436	1.52	12/581 (2.1%)
2	c7	0.60	0/436	1.52	12/581 (2.1%)
2	c8	0.60	0/436	1.53	12/581 (2.1%)
2	cG	0.60	0/436	1.52	12/581 (2.1%)
2	cL	0.60	0/436	1.52	12/581 (2.1%)
2	cR	0.60	0/436	1.52	12/581 (2.1%)
2	d1	0.29	0/222	0.76	0/293
2	d3	0.28	0/222	0.76	0/293
2	d4	0.28	0/222	0.76	0/293
2	d6	0.39	0/440	0.98	2/586 (0.3%)
2	d7	0.39	0/440	0.98	2/586 (0.3%)
2	d8	0.39	0/440	0.98	2/586 (0.3%)
2	dG	0.39	0/440	0.98	2/586 (0.3%)
2	dL	0.39	0/440	0.98	2/586 (0.3%)
2	dR	0.39	0/440	0.98	2/586 (0.3%)
2	e1	0.42	0/439	0.87	0/585

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	e4	0.42	0/439	0.87	0/585
2	e6	0.28	0/222	0.76	0/293
2	e7	0.28	0/222	0.76	0/293
2	e8	0.28	0/222	0.76	0/293
2	eE	0.60	0/436	1.53	12/581 (2.1%)
2	eG	0.28	0/222	0.76	0/293
2	eL	0.29	0/222	0.76	0/293
2	eR	0.29	0/222	0.76	0/293
2	f6	0.42	0/439	0.87	0/585
2	f7	0.42	0/439	0.87	0/585
2	f8	0.42	0/439	0.87	0/585
2	fE	0.39	0/440	0.98	2/586 (0.3%)
2	fG	0.42	0/439	0.87	0/585
2	fL	0.42	0/439	0.87	0/585
2	fQ	0.60	0/436	1.52	12/581 (2.1%)
2	fR	0.42	0/439	0.87	0/585
2	gE	0.28	0/222	0.76	0/293
2	gQ	0.39	0/440	0.99	2/586 (0.3%)
2	hE	0.42	0/439	0.87	0/585
2	hL	0.60	0/436	1.52	12/581 (2.1%)
2	hQ	0.29	0/222	0.76	0/293
2	iL	0.29	0/222	0.76	0/293
2	iQ	0.42	0/439	0.87	0/585
2	j1	0.60	0/436	1.52	12/581 (2.1%)
2	j4	0.39	0/440	0.98	2/586 (0.3%)
2	k1	0.39	0/440	0.99	2/586 (0.3%)
2	k4	0.28	0/222	0.76	0/293
2	k6	0.60	0/436	1.53	12/581 (2.1%)
2	k7	0.60	0/436	1.52	12/581 (2.1%)
2	k8	0.60	0/436	1.52	12/581 (2.1%)
2	kG	0.60	0/436	1.52	12/581 (2.1%)
2	kR	0.39	0/440	0.98	2/586 (0.3%)
2	l1	0.29	0/222	0.76	0/293
2	l4	0.42	0/439	0.87	0/585
2	l6	0.39	0/440	0.98	2/586 (0.3%)
2	l7	0.39	0/440	0.98	2/586 (0.3%)
2	l8	0.39	0/440	0.98	2/586 (0.3%)
2	lG	0.39	0/440	0.99	2/586 (0.3%)
2	lR	0.29	0/222	0.76	0/293
2	m1	0.42	0/439	0.87	0/585
2	m6	0.28	0/222	0.76	0/293
2	m7	0.28	0/222	0.76	0/293
2	m8	0.28	0/222	0.76	0/293

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	mG	0.29	0/222	0.76	0/293
2	mR	0.42	0/439	0.87	0/585
2	n6	0.42	0/439	0.87	0/585
2	n7	0.42	0/439	0.87	0/585
2	n8	0.42	0/439	0.87	0/585
2	nG	0.42	0/439	0.87	0/585
3	A2	0.51	0/2386	0.91	6/3223 (0.2%)
3	A5	0.51	0/2386	0.91	6/3223 (0.2%)
3	A9	0.51	0/2386	0.91	8/3223 (0.2%)
3	AA	0.51	0/2386	0.91	7/3223 (0.2%)
3	AB	0.51	0/2386	0.91	6/3223 (0.2%)
3	AC	0.51	0/2386	0.91	6/3223 (0.2%)
3	AF	0.51	0/2386	0.91	6/3223 (0.2%)
3	AH	0.51	0/2386	0.91	6/3223 (0.2%)
3	AI	0.51	0/2386	0.91	6/3223 (0.2%)
3	AM	0.51	0/2386	0.91	6/3223 (0.2%)
3	AN	0.51	0/2386	0.91	6/3223 (0.2%)
3	AO	0.51	0/2386	0.91	6/3223 (0.2%)
4	B2	0.43	0/1791	0.73	1/2411 (0.0%)
4	B5	0.43	0/1791	0.73	1/2411 (0.0%)
4	B9	0.43	0/1791	0.73	1/2411 (0.0%)
4	BA	0.43	0/1791	0.73	1/2411 (0.0%)
4	BB	0.43	0/1791	0.73	1/2411 (0.0%)
4	BC	0.43	0/1791	0.73	1/2411 (0.0%)
4	BF	0.43	0/1791	0.73	1/2411 (0.0%)
4	BH	0.43	0/1791	0.73	1/2411 (0.0%)
4	BI	0.43	0/1791	0.73	1/2411 (0.0%)
4	BM	0.43	0/1791	0.73	1/2411 (0.0%)
4	BN	0.43	0/1791	0.73	1/2411 (0.0%)
4	BO	0.43	0/1791	0.73	1/2411 (0.0%)
5	C2	0.14	0/4109	0.34	0/5550
5	C5	0.14	0/4109	0.34	0/5550
5	C9	0.14	0/4109	0.34	0/5550
5	CA	0.14	0/4109	0.34	0/5550
5	CB	0.14	0/4109	0.34	0/5550
5	CC	0.14	0/4109	0.34	0/5550
5	CF	0.14	0/4109	0.34	0/5550
5	CH	0.14	0/4109	0.34	0/5550
5	CI	0.14	0/4109	0.34	0/5550
5	CM	0.14	0/4109	0.34	0/5550
5	CN	0.14	0/4109	0.34	0/5550
5	CO	0.14	0/4109	0.34	0/5550
5	D2	0.39	0/1135	0.70	4/1529 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	D5	0.39	0/1135	0.70	4/1529 (0.3%)
5	D9	0.39	0/1135	0.70	4/1529 (0.3%)
5	DA	0.39	0/1135	0.70	4/1529 (0.3%)
5	DB	0.39	0/1135	0.70	4/1529 (0.3%)
5	DC	0.39	0/1135	0.70	4/1529 (0.3%)
5	DF	0.39	0/1135	0.70	4/1529 (0.3%)
5	DH	0.39	0/1135	0.70	4/1529 (0.3%)
5	DI	0.39	0/1135	0.70	4/1529 (0.3%)
5	DM	0.39	0/1135	0.70	4/1529 (0.3%)
5	DN	0.39	0/1135	0.70	4/1529 (0.3%)
5	DO	0.39	0/1135	0.70	4/1529 (0.3%)
5	E2	0.39	0/1203	0.76	0/1617
5	E5	0.39	0/1203	0.76	0/1617
5	E9	0.39	0/1203	0.76	0/1617
5	EA	0.39	0/1203	0.76	0/1617
5	EB	0.39	0/1203	0.76	0/1617
5	EC	0.39	0/1203	0.76	0/1617
5	EF	0.39	0/1203	0.76	0/1617
5	EH	0.39	0/1203	0.76	0/1617
5	EI	0.39	0/1203	0.76	0/1617
5	EM	0.39	0/1203	0.76	0/1617
5	EN	0.39	0/1203	0.76	0/1617
5	EO	0.39	0/1203	0.76	0/1617
5	F2	0.42	0/950	0.74	0/1279
5	F5	0.42	0/950	0.74	0/1279
5	F9	0.42	0/950	0.74	0/1279
5	FA	0.42	0/950	0.74	0/1279
5	FB	0.43	0/950	0.74	0/1279
5	FC	0.42	0/950	0.74	0/1279
5	FF	0.42	0/950	0.74	0/1279
5	FH	0.42	0/950	0.74	0/1279
5	FI	0.42	0/950	0.74	0/1279
5	FM	0.42	0/950	0.74	0/1279
5	FN	0.42	0/950	0.74	0/1279
5	FO	0.42	0/950	0.74	0/1279
5	N2	0.14	0/4109	0.34	0/5550
5	N5	0.14	0/4109	0.34	0/5550
5	N9	0.14	0/4109	0.34	0/5550
5	NA	0.14	0/4109	0.34	0/5550
5	NB	0.14	0/4109	0.34	0/5550
5	NC	0.14	0/4109	0.34	0/5550
5	NF	0.14	0/4109	0.34	0/5550
5	NH	0.15	0/4109	0.34	0/5550

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	NI	0.14	0/4109	0.34	0/5550
5	NM	0.14	0/4109	0.34	0/5550
5	NN	0.14	0/4109	0.34	0/5550
5	NO	0.14	0/4109	0.34	0/5550
5	O2	0.15	0/4100	0.34	0/5539
5	O5	0.15	0/4100	0.34	0/5539
5	O9	0.14	0/4100	0.34	0/5539
5	OA	0.14	0/4100	0.34	0/5539
5	OB	0.14	0/4100	0.34	0/5539
5	OC	0.14	0/4100	0.34	0/5539
5	OF	0.14	0/4100	0.34	0/5539
5	OH	0.14	0/4100	0.34	0/5539
5	OI	0.15	0/4100	0.34	0/5539
5	OM	0.14	0/4100	0.34	0/5539
5	ON	0.14	0/4100	0.34	0/5539
5	OO	0.14	0/4100	0.34	0/5539
6	G2	0.21	0/89	0.47	0/123
6	G5	0.20	0/89	0.47	0/123
6	G9	0.21	0/89	0.47	0/123
6	GA	0.20	0/89	0.47	0/123
6	GB	0.19	0/89	0.47	0/123
6	GC	0.20	0/89	0.47	0/123
6	GF	0.20	0/89	0.47	0/123
6	GH	0.21	0/89	0.47	0/123
6	GI	0.20	0/89	0.47	0/123
6	GM	0.20	0/89	0.47	0/123
6	GN	0.19	0/89	0.47	0/123
6	GO	0.19	0/89	0.47	0/123
6	H2	0.21	0/89	0.48	0/123
6	H5	0.21	0/89	0.48	0/123
6	H9	0.21	0/89	0.47	0/123
6	HA	0.21	0/89	0.48	0/123
6	HB	0.21	0/89	0.48	0/123
6	HC	0.21	0/89	0.48	0/123
6	HF	0.21	0/89	0.48	0/123
6	HH	0.21	0/89	0.48	0/123
6	HI	0.21	0/89	0.48	0/123
6	HM	0.20	0/89	0.48	0/123
6	HN	0.21	0/89	0.48	0/123
6	HO	0.21	0/89	0.48	0/123
6	I2	0.21	0/119	0.62	0/165
6	I5	0.20	0/119	0.62	0/165
6	I9	0.21	0/119	0.63	0/165

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
6	IA	0.21	0/119	0.63	0/165
6	IB	0.21	0/119	0.63	0/165
6	IC	0.20	0/119	0.62	0/165
6	IF	0.21	0/119	0.63	0/165
6	IH	0.20	0/119	0.63	0/165
6	II	0.21	0/119	0.62	0/165
6	IM	0.21	0/119	0.62	0/165
6	IN	0.21	0/119	0.62	0/165
6	IO	0.21	0/119	0.63	0/165
6	J2	0.26	0/119	0.55	0/165
6	J5	0.25	0/119	0.55	0/165
6	J9	0.25	0/119	0.55	0/165
6	JA	0.25	0/119	0.55	0/165
6	JB	0.25	0/119	0.55	0/165
6	JC	0.25	0/119	0.55	0/165
6	JF	0.26	0/119	0.55	0/165
6	JH	0.26	0/119	0.55	0/165
6	JI	0.25	0/119	0.56	0/165
6	JM	0.25	0/119	0.56	0/165
6	JN	0.25	0/119	0.56	0/165
6	JO	0.25	0/119	0.55	0/165
6	K2	0.31	0/111	0.75	0/154
6	K5	0.32	0/111	0.75	0/154
6	K9	0.31	0/111	0.75	0/154
6	KA	0.32	0/111	0.75	0/154
6	KB	0.32	0/111	0.75	0/154
6	KC	0.32	0/111	0.75	0/154
6	KF	0.31	0/111	0.75	0/154
6	KH	0.31	0/111	0.75	0/154
6	KI	0.31	0/111	0.75	0/154
6	KM	0.32	0/111	0.75	0/154
6	KN	0.32	0/111	0.75	0/154
6	KO	0.32	0/111	0.75	0/154
6	L2	0.28	0/119	0.67	0/165
6	L5	0.28	0/119	0.67	0/165
6	L9	0.28	0/119	0.67	0/165
6	LA	0.27	0/119	0.66	0/165
6	LB	0.28	0/119	0.67	0/165
6	LC	0.28	0/119	0.66	0/165
6	LF	0.28	0/119	0.66	0/165
6	LH	0.28	0/119	0.66	0/165
6	LI	0.27	0/119	0.67	0/165
6	LM	0.28	0/119	0.67	0/165

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
6	LN	0.28	0/119	0.66	0/165
6	LO	0.28	0/119	0.66	0/165
7	HS	0.24	0/274	0.67	0/382
7	ID	0.23	0/274	0.67	0/382
7	IJ	0.24	0/274	0.66	0/382
7	IK	0.23	0/274	0.67	0/382
7	IP	0.24	0/274	0.67	0/382
7	NS	0.24	0/274	0.67	0/382
7	OD	0.23	0/274	0.67	0/382
7	OJ	0.23	0/274	0.67	0/382
7	OK	0.24	0/274	0.67	0/382
7	OP	0.23	0/274	0.67	0/382
7	SD	0.24	0/274	0.66	0/382
7	SJ	0.24	0/274	0.66	0/382
7	SK	0.24	0/274	0.67	0/382
7	SP	0.24	0/274	0.66	0/382
7	SS	0.24	0/274	0.66	0/382
8	PD	0.15	0/84	0.45	0/116
8	PJ	0.16	0/84	0.45	0/116
8	PK	0.15	0/84	0.46	0/116
8	PP	0.16	0/84	0.45	0/116
8	PS	0.16	0/84	0.45	0/116
8	QD	0.18	0/78	0.42	0/107
8	QJ	0.18	0/78	0.42	0/107
8	QK	0.18	0/78	0.43	0/107
8	QP	0.18	0/78	0.42	0/107
8	QS	0.17	0/78	0.42	0/107
8	RD	0.22	0/53	0.44	0/69
8	RJ	0.23	0/53	0.44	0/69
8	RK	0.22	0/53	0.45	0/69
8	RP	0.22	0/53	0.44	0/69
8	RS	0.22	0/53	0.45	0/69
All	All	0.39	52/1095338 (0.0%)	0.69	1888/1478016 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A1	0	2
1	A3	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A4	0	2
1	A6	0	2
1	A7	0	2
1	A8	0	2
1	AD	0	1
1	AE	0	1
1	AG	0	2
1	AJ	0	1
1	AK	0	1
1	AL	0	2
1	AP	0	1
1	AQ	0	2
1	AR	0	2
1	AS	0	2
1	B1	0	1
1	B3	0	1
1	B4	0	1
1	B6	0	1
1	B7	0	1
1	B8	0	1
1	BD	0	2
1	BE	0	2
1	BG	0	1
1	BJ	0	2
1	BK	0	2
1	BL	0	1
1	BP	0	2
1	BQ	0	1
1	BR	0	1
1	C1	0	1
1	C3	0	1
1	C4	0	1
1	C6	0	1
1	C7	0	1
1	C8	0	1
1	CE	0	1
1	CG	0	1
1	CL	0	1
1	CQ	0	1
1	CR	0	1
1	CS	0	2
1	DD	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	DJ	0	2
1	DK	0	2
1	DP	0	2
1	I1	0	1
1	I3	0	1
1	I4	0	1
1	I6	0	1
1	I7	0	1
1	I8	0	1
1	IG	0	1
1	IL	0	1
1	IQ	0	1
1	IR	0	1
1	IS	0	1
1	J1	0	2
1	J3	0	2
1	J4	0	2
1	J6	0	2
1	J7	0	2
1	J8	0	2
1	JG	0	2
1	JL	0	2
1	JQ	0	2
1	JR	0	2
1	JS	0	1
1	K1	0	1
1	K3	0	1
1	K4	0	1
1	K6	0	1
1	K7	0	1
1	K8	0	1
1	KD	0	1
1	KE	0	1
1	KG	0	1
1	KJ	0	2
1	KK	0	1
1	KL	0	1
1	KP	0	1
1	KQ	0	1
1	KR	0	1
1	KS	0	1
1	LD	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	LE	0	2
1	LJ	0	1
1	LK	0	1
1	LP	0	1
1	ME	0	1
1	Q1	0	1
1	Q3	0	1
1	Q4	0	1
1	Q6	0	1
1	Q7	0	1
1	Q8	0	1
1	QG	0	1
1	QL	0	1
1	QQ	0	1
1	QR	0	1
1	R1	0	2
1	R3	0	2
1	R4	0	2
1	R6	0	2
1	R7	0	2
1	R8	0	2
1	RG	0	2
1	RL	0	2
1	RQ	0	2
1	RR	0	2
1	S1	0	1
1	S3	0	1
1	S4	0	1
1	S6	0	1
1	S7	0	1
1	S8	0	1
1	SE	0	1
1	SG	0	1
1	SL	0	1
1	SQ	0	1
1	SR	0	1
1	TE	0	2
1	UE	0	1
1	X1	0	1
1	X4	0	1
1	Y1	0	2
1	Y4	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	Y6	0	1
1	Y7	0	1
1	Y8	0	1
1	YG	0	1
1	YL	0	1
1	YR	0	1
1	Z1	0	1
1	Z4	0	1
1	Z6	0	2
1	Z7	0	2
1	Z8	0	2
1	ZG	0	2
1	ZL	0	2
1	ZR	0	2
1	a6	0	1
1	a7	0	1
1	a8	0	1
1	aE	0	1
1	aG	0	1
1	aL	0	1
1	aR	0	1
1	bE	0	2
1	bQ	0	1
1	cE	0	1
1	cQ	0	2
1	dQ	0	1
1	f1	0	1
1	f4	0	1
1	g1	0	2
1	g4	0	2
1	g6	0	1
1	g7	0	1
1	g8	0	1
1	gG	0	1
1	gR	0	1
1	h1	0	1
1	h4	0	1
1	h6	0	2
1	h7	0	2
1	h8	0	2
1	hG	0	2
1	hR	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	i6	0	1
1	i7	0	1
1	i8	0	1
1	iG	0	1
1	iR	0	1
2	DS	0	3
2	E1	0	1
2	E3	0	1
2	E4	0	1
2	E6	0	1
2	E7	0	1
2	E8	0	1
2	ED	0	3
2	EE	0	1
2	EG	0	1
2	EJ	0	3
2	EK	0	3
2	EL	0	1
2	EP	0	3
2	EQ	0	1
2	ER	0	1
2	ES	0	2
2	F1	0	2
2	F3	0	2
2	F4	0	2
2	F6	0	2
2	F7	0	2
2	F8	0	2
2	FD	0	2
2	FG	0	2
2	FJ	0	2
2	FK	0	2
2	FL	0	2
2	FP	0	2
2	FQ	0	2
2	FR	0	2
2	G1	0	3
2	G3	0	3
2	G4	0	3
2	G6	0	3
2	G7	0	3
2	G8	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	GE	0	3
2	GG	0	3
2	GL	0	3
2	GQ	0	3
2	GR	0	3
2	H1	0	1
2	H3	0	1
2	H4	0	1
2	H6	0	1
2	H7	0	1
2	H8	0	1
2	HE	0	2
2	HG	0	1
2	HL	0	1
2	HQ	0	1
2	HR	0	1
2	IE	0	3
2	JE	0	1
2	LS	0	1
2	M1	0	1
2	M3	0	1
2	M4	0	1
2	M6	0	1
2	M7	0	1
2	M8	0	1
2	MD	0	1
2	MG	0	1
2	MJ	0	1
2	MK	0	1
2	ML	0	1
2	MP	0	1
2	MQ	0	1
2	MR	0	1
2	MS	0	1
2	N1	0	2
2	N3	0	2
2	N4	0	2
2	N6	0	2
2	N7	0	2
2	N8	0	2
2	ND	0	1
2	NG	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	NJ	0	1
2	NK	0	1
2	NL	0	2
2	NP	0	1
2	NQ	0	2
2	NR	0	2
2	O1	0	3
2	O3	0	3
2	O4	0	3
2	O6	0	3
2	O7	0	3
2	O8	0	3
2	OE	0	1
2	OG	0	3
2	OL	0	3
2	OQ	0	3
2	OR	0	3
2	P1	0	1
2	P3	0	1
2	P4	0	1
2	P6	0	1
2	P7	0	1
2	P8	0	1
2	PE	0	2
2	PG	0	1
2	PL	0	1
2	PQ	0	1
2	PR	0	1
2	QE	0	3
2	RE	0	1
2	U1	0	2
2	U3	0	1
2	U4	0	2
2	U6	0	1
2	U7	0	1
2	U8	0	1
2	UG	0	1
2	UL	0	1
2	UQ	0	1
2	UR	0	1
2	V1	0	3
2	V3	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	V4	0	3
2	V6	0	2
2	V7	0	2
2	V8	0	2
2	VG	0	2
2	VL	0	2
2	VQ	0	2
2	VR	0	2
2	W1	0	1
2	W3	0	3
2	W4	0	1
2	W6	0	3
2	W7	0	3
2	W8	0	3
2	WE	0	1
2	WG	0	3
2	WL	0	3
2	WQ	0	3
2	WR	0	3
2	X3	0	1
2	X6	0	1
2	X7	0	1
2	X8	0	1
2	XE	0	2
2	XG	0	1
2	XL	0	1
2	XQ	0	1
2	XR	0	1
2	YE	0	3
2	Z3	0	1
2	ZE	0	1
2	ZQ	0	1
2	a3	0	3
2	aQ	0	3
2	b1	0	1
2	b4	0	1
2	c1	0	2
2	c3	0	1
2	c4	0	2
2	c6	0	1
2	c7	0	1
2	c8	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	cG	0	1
2	cL	0	1
2	cR	0	1
2	d1	0	3
2	d3	0	3
2	d4	0	3
2	d6	0	2
2	d7	0	2
2	d8	0	2
2	dG	0	2
2	dL	0	2
2	dR	0	2
2	e1	0	1
2	e4	0	1
2	e6	0	3
2	e7	0	3
2	e8	0	3
2	eE	0	1
2	eG	0	3
2	eL	0	3
2	eR	0	3
2	f6	0	1
2	f7	0	1
2	f8	0	1
2	fE	0	2
2	fG	0	1
2	fL	0	1
2	fQ	0	1
2	fR	0	1
2	gE	0	3
2	gQ	0	2
2	hE	0	1
2	hL	0	1
2	hQ	0	3
2	iL	0	3
2	iQ	0	1
2	j1	0	1
2	j4	0	2
2	k1	0	2
2	k4	0	3
2	k6	0	1
2	k7	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	k8	0	1
2	kG	0	1
2	kR	0	2
2	l1	0	3
2	l4	0	1
2	l6	0	2
2	l7	0	2
2	l8	0	2
2	lG	0	2
2	lR	0	3
2	m1	0	1
2	m6	0	3
2	m7	0	3
2	m8	0	3
2	mG	0	3
2	mR	0	1
2	n6	0	1
2	n7	0	1
2	n8	0	1
2	nG	0	1
3	A2	0	5
3	A5	0	5
3	A9	0	5
3	AA	0	5
3	AB	0	5
3	AC	0	5
3	AF	0	5
3	AH	0	5
3	AI	0	5
3	AM	0	5
3	AN	0	5
3	AO	0	5
4	B2	0	2
4	B5	0	2
4	B9	0	2
4	BA	0	2
4	BB	0	2
4	BC	0	2
4	BF	0	2
4	BH	0	2
4	BI	0	2
4	BM	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
4	BN	0	2
4	BO	0	2
5	F2	0	1
5	F5	0	1
5	F9	0	1
5	FA	0	1
5	FB	0	1
5	FC	0	1
5	FF	0	1
5	FH	0	1
5	FI	0	1
5	FM	0	1
5	FN	0	1
5	FO	0	1
All	All	0	732

All (52) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AD	49	PHE	CA-C	-15.05	1.32	1.52
1	AJ	49	PHE	CA-C	-15.04	1.32	1.52
1	IS	49	PHE	CA-C	-15.02	1.32	1.52
1	AP	49	PHE	CA-C	-15.02	1.32	1.52
1	AK	49	PHE	CA-C	-14.97	1.32	1.52
1	AD	47	GLU	CA-C	-10.48	1.38	1.52
1	AP	47	GLU	CA-C	-10.44	1.38	1.52
1	IS	47	GLU	CA-C	-10.43	1.38	1.52
1	AJ	47	GLU	CA-C	-10.42	1.38	1.52
1	AK	47	GLU	CA-C	-10.40	1.38	1.52
1	AD	49	PHE	C-N	-8.03	1.22	1.33
1	IS	49	PHE	C-N	-8.01	1.22	1.33
1	AK	49	PHE	C-N	-7.98	1.22	1.33
1	AP	49	PHE	C-N	-7.98	1.22	1.33
1	AJ	49	PHE	C-N	-7.98	1.22	1.33
1	AK	47	GLU	C-O	-7.14	1.15	1.24
1	AP	47	GLU	C-O	-7.13	1.15	1.24
1	AJ	47	GLU	C-O	-7.13	1.15	1.24
1	AD	47	GLU	C-O	-7.13	1.15	1.24
1	IS	47	GLU	C-O	-7.06	1.15	1.24
1	AD	44	THR	CA-C	6.86	1.61	1.52
1	AK	44	THR	CA-C	6.83	1.61	1.52
1	AP	44	THR	CA-C	6.83	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AJ	44	THR	CA-C	6.82	1.61	1.52
1	IS	44	THR	CA-C	6.81	1.61	1.52
1	IS	49	PHE	C-O	-6.79	1.15	1.24
1	AK	49	PHE	C-O	-6.78	1.15	1.24
1	AJ	49	PHE	C-O	-6.75	1.15	1.24
1	AP	49	PHE	C-O	-6.72	1.15	1.24
1	AD	49	PHE	C-O	-6.69	1.15	1.24
1	IS	46	PHE	CA-C	-6.66	1.43	1.52
1	AP	46	PHE	CA-C	-6.64	1.43	1.52
1	AJ	46	PHE	CA-C	-6.63	1.43	1.52
1	AD	46	PHE	CA-C	-6.63	1.43	1.52
1	AK	46	PHE	CA-C	-6.61	1.44	1.52
1	IS	48	THR	CA-C	-6.37	1.44	1.52
1	AP	48	THR	CA-C	-6.35	1.44	1.52
1	AJ	48	THR	CA-C	-6.33	1.44	1.52
1	AD	48	THR	CA-C	-6.33	1.44	1.52
1	AK	48	THR	CA-C	-6.30	1.44	1.52
1	AK	48	THR	C-O	-5.37	1.17	1.24
1	AJ	48	THR	C-O	-5.36	1.17	1.24
1	AD	48	THR	C-O	-5.35	1.17	1.24
1	IS	48	THR	C-O	-5.32	1.17	1.24
1	AP	48	THR	C-O	-5.29	1.17	1.24
1	AD	44	THR	N-CA	5.23	1.53	1.46
1	AP	44	THR	N-CA	5.22	1.53	1.46
1	AK	44	THR	N-CA	5.21	1.53	1.46
1	IS	44	THR	N-CA	5.21	1.53	1.46
1	AJ	44	THR	N-CA	5.20	1.53	1.46
1	AP	49	PHE	N-CA	-5.02	1.39	1.46
1	AK	49	PHE	N-CA	-5.01	1.39	1.46

All (1888) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A1	62	LEU	N-CA-C	21.97	135.31	111.36
1	J3	62	LEU	N-CA-C	21.97	135.31	111.36
1	A4	62	LEU	N-CA-C	21.97	135.31	111.36
1	R4	62	LEU	N-CA-C	21.97	135.31	111.36
1	A6	62	LEU	N-CA-C	21.97	135.31	111.36
1	Z7	62	LEU	N-CA-C	21.97	135.31	111.36
1	R8	62	LEU	N-CA-C	21.97	135.31	111.36
1	h8	62	LEU	N-CA-C	21.97	135.31	111.36
1	RG	62	LEU	N-CA-C	21.97	135.31	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	JR	62	LEU	N-CA-C	21.97	135.31	111.36
1	J6	62	LEU	N-CA-C	21.96	135.29	111.36
1	R6	62	LEU	N-CA-C	21.96	135.29	111.36
1	J7	62	LEU	N-CA-C	21.96	135.29	111.36
1	R7	62	LEU	N-CA-C	21.96	135.29	111.36
1	AL	62	LEU	N-CA-C	21.96	135.29	111.36
1	ZL	62	LEU	N-CA-C	21.96	135.29	111.36
1	AQ	62	LEU	N-CA-C	21.96	135.29	111.36
1	RR	62	LEU	N-CA-C	21.96	135.29	111.36
1	ZR	62	LEU	N-CA-C	21.96	135.29	111.36
1	hR	62	LEU	N-CA-C	21.96	135.29	111.36
1	A3	62	LEU	N-CA-C	21.95	135.29	111.36
1	J4	62	LEU	N-CA-C	21.95	135.29	111.36
1	g4	62	LEU	N-CA-C	21.95	135.29	111.36
1	h6	62	LEU	N-CA-C	21.95	135.29	111.36
1	J8	62	LEU	N-CA-C	21.95	135.29	111.36
1	Z8	62	LEU	N-CA-C	21.95	135.29	111.36
1	LE	62	LEU	N-CA-C	21.95	135.29	111.36
1	bE	62	LEU	N-CA-C	21.95	135.29	111.36
1	JG	62	LEU	N-CA-C	21.95	135.29	111.36
1	JQ	62	LEU	N-CA-C	21.95	135.29	111.36
1	J1	62	LEU	N-CA-C	21.94	135.27	111.36
1	R3	62	LEU	N-CA-C	21.94	135.27	111.36
1	Y4	62	LEU	N-CA-C	21.94	135.27	111.36
1	Z6	62	LEU	N-CA-C	21.94	135.27	111.36
1	h7	62	LEU	N-CA-C	21.94	135.27	111.36
1	A8	62	LEU	N-CA-C	21.94	135.27	111.36
1	BE	62	LEU	N-CA-C	21.94	135.27	111.36
1	TE	62	LEU	N-CA-C	21.94	135.27	111.36
1	ZG	62	LEU	N-CA-C	21.94	135.27	111.36
1	AR	62	LEU	N-CA-C	21.94	135.27	111.36
1	R1	62	LEU	N-CA-C	21.92	135.25	111.36
1	Y1	62	LEU	N-CA-C	21.92	135.25	111.36
1	g1	62	LEU	N-CA-C	21.92	135.25	111.36
1	A7	62	LEU	N-CA-C	21.92	135.25	111.36
1	AG	62	LEU	N-CA-C	21.92	135.25	111.36
1	hG	62	LEU	N-CA-C	21.92	135.25	111.36
1	JL	62	LEU	N-CA-C	21.92	135.25	111.36
1	RL	62	LEU	N-CA-C	21.92	135.25	111.36
1	RQ	62	LEU	N-CA-C	21.92	135.25	111.36
1	cQ	62	LEU	N-CA-C	21.92	135.25	111.36
1	AP	55	PHE	CA-C-N	16.55	140.53	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AP	55	PHE	C-N-CA	16.55	140.53	119.84
1	IS	55	PHE	CA-C-N	16.51	140.48	119.84
1	IS	55	PHE	C-N-CA	16.51	140.48	119.84
1	AD	55	PHE	CA-C-N	16.51	140.47	119.84
1	AD	55	PHE	C-N-CA	16.51	140.47	119.84
1	AJ	55	PHE	CA-C-N	16.49	140.46	119.84
1	AJ	55	PHE	C-N-CA	16.49	140.46	119.84
1	AK	55	PHE	CA-C-N	16.47	140.43	119.84
1	AK	55	PHE	C-N-CA	16.47	140.43	119.84
1	I6	317	PHE	N-CA-C	13.58	125.81	111.14
1	Q6	317	PHE	N-CA-C	13.58	125.81	111.14
1	I7	317	PHE	N-CA-C	13.58	125.81	111.14
1	Q7	317	PHE	N-CA-C	13.58	125.81	111.14
1	CL	317	PHE	N-CA-C	13.58	125.81	111.14
1	YL	317	PHE	N-CA-C	13.58	125.81	111.14
1	CQ	317	PHE	N-CA-C	13.58	125.81	111.14
1	QR	317	PHE	N-CA-C	13.58	125.81	111.14
1	YR	317	PHE	N-CA-C	13.58	125.81	111.14
1	gR	317	PHE	N-CA-C	13.58	125.81	111.14
1	I1	317	PHE	N-CA-C	13.56	125.79	111.14
1	Q3	317	PHE	N-CA-C	13.56	125.79	111.14
1	X4	317	PHE	N-CA-C	13.56	125.79	111.14
1	Y6	317	PHE	N-CA-C	13.56	125.79	111.14
1	g7	317	PHE	N-CA-C	13.56	125.79	111.14
1	C8	317	PHE	N-CA-C	13.56	125.79	111.14
1	AE	317	PHE	N-CA-C	13.56	125.79	111.14
1	SE	317	PHE	N-CA-C	13.56	125.79	111.14
1	YG	317	PHE	N-CA-C	13.56	125.79	111.14
1	CR	317	PHE	N-CA-C	13.56	125.79	111.14
1	C3	317	PHE	N-CA-C	13.56	125.79	111.14
1	I4	317	PHE	N-CA-C	13.56	125.79	111.14
1	f4	317	PHE	N-CA-C	13.56	125.79	111.14
1	g6	317	PHE	N-CA-C	13.56	125.79	111.14
1	I8	317	PHE	N-CA-C	13.56	125.79	111.14
1	Y8	317	PHE	N-CA-C	13.56	125.79	111.14
1	KE	317	PHE	N-CA-C	13.56	125.79	111.14
1	aE	317	PHE	N-CA-C	13.56	125.79	111.14
1	IG	317	PHE	N-CA-C	13.56	125.79	111.14
1	IQ	317	PHE	N-CA-C	13.56	125.79	111.14
1	Q1	317	PHE	N-CA-C	13.56	125.78	111.14
1	X1	317	PHE	N-CA-C	13.56	125.78	111.14
1	f1	317	PHE	N-CA-C	13.56	125.78	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C7	317	PHE	N-CA-C	13.56	125.78	111.14
1	CG	317	PHE	N-CA-C	13.56	125.78	111.14
1	gG	317	PHE	N-CA-C	13.56	125.78	111.14
1	IL	317	PHE	N-CA-C	13.56	125.78	111.14
1	QL	317	PHE	N-CA-C	13.56	125.78	111.14
1	QQ	317	PHE	N-CA-C	13.56	125.78	111.14
1	bQ	317	PHE	N-CA-C	13.56	125.78	111.14
1	C1	317	PHE	N-CA-C	13.55	125.78	111.14
1	I3	317	PHE	N-CA-C	13.55	125.78	111.14
1	C4	317	PHE	N-CA-C	13.55	125.78	111.14
1	Q4	317	PHE	N-CA-C	13.55	125.78	111.14
1	C6	317	PHE	N-CA-C	13.55	125.78	111.14
1	Y7	317	PHE	N-CA-C	13.55	125.78	111.14
1	Q8	317	PHE	N-CA-C	13.55	125.78	111.14
1	g8	317	PHE	N-CA-C	13.55	125.78	111.14
1	QG	317	PHE	N-CA-C	13.55	125.78	111.14
1	IR	317	PHE	N-CA-C	13.55	125.78	111.14
2	M6	43	VAL	N-CA-C	12.79	123.67	110.62
2	U6	43	VAL	N-CA-C	12.79	123.67	110.62
2	M7	43	VAL	N-CA-C	12.79	123.67	110.62
2	U7	43	VAL	N-CA-C	12.79	123.67	110.62
2	EL	43	VAL	N-CA-C	12.79	123.67	110.62
2	cL	43	VAL	N-CA-C	12.79	123.67	110.62
2	hL	43	VAL	N-CA-C	12.79	123.67	110.62
2	EQ	43	VAL	N-CA-C	12.79	123.67	110.62
2	UR	43	VAL	N-CA-C	12.79	123.67	110.62
2	cR	43	VAL	N-CA-C	12.79	123.67	110.62
2	E3	43	VAL	N-CA-C	12.76	123.63	110.62
2	Z3	43	VAL	N-CA-C	12.76	123.63	110.62
2	M4	43	VAL	N-CA-C	12.76	123.63	110.62
2	k6	43	VAL	N-CA-C	12.76	123.63	110.62
2	M8	43	VAL	N-CA-C	12.76	123.63	110.62
2	c8	43	VAL	N-CA-C	12.76	123.63	110.62
2	OE	43	VAL	N-CA-C	12.76	123.63	110.62
2	eE	43	VAL	N-CA-C	12.76	123.63	110.62
2	MG	43	VAL	N-CA-C	12.76	123.63	110.62
2	MQ	43	VAL	N-CA-C	12.76	123.63	110.62
2	M1	43	VAL	N-CA-C	12.76	123.63	110.62
2	U3	43	VAL	N-CA-C	12.76	123.63	110.62
2	c3	43	VAL	N-CA-C	12.76	123.63	110.62
2	b4	43	VAL	N-CA-C	12.76	123.63	110.62
2	c6	43	VAL	N-CA-C	12.76	123.63	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	k7	43	VAL	N-CA-C	12.76	123.63	110.62
2	E8	43	VAL	N-CA-C	12.76	123.63	110.62
2	WE	43	VAL	N-CA-C	12.76	123.63	110.62
2	cG	43	VAL	N-CA-C	12.76	123.63	110.62
2	ER	43	VAL	N-CA-C	12.76	123.63	110.62
2	b1	43	VAL	N-CA-C	12.75	123.62	110.62
2	j1	43	VAL	N-CA-C	12.75	123.62	110.62
2	E7	43	VAL	N-CA-C	12.75	123.62	110.62
2	EG	43	VAL	N-CA-C	12.75	123.62	110.62
2	kG	43	VAL	N-CA-C	12.75	123.62	110.62
2	ML	43	VAL	N-CA-C	12.75	123.62	110.62
2	UL	43	VAL	N-CA-C	12.75	123.62	110.62
2	UQ	43	VAL	N-CA-C	12.75	123.62	110.62
2	ZQ	43	VAL	N-CA-C	12.75	123.62	110.62
2	fQ	43	VAL	N-CA-C	12.75	123.62	110.62
2	E1	43	VAL	N-CA-C	12.73	123.61	110.62
2	M3	43	VAL	N-CA-C	12.73	123.61	110.62
2	E4	43	VAL	N-CA-C	12.73	123.61	110.62
2	E6	43	VAL	N-CA-C	12.73	123.61	110.62
2	c7	43	VAL	N-CA-C	12.73	123.61	110.62
2	U8	43	VAL	N-CA-C	12.73	123.61	110.62
2	k8	43	VAL	N-CA-C	12.73	123.61	110.62
2	EE	43	VAL	N-CA-C	12.73	123.61	110.62
2	UG	43	VAL	N-CA-C	12.73	123.61	110.62
2	MR	43	VAL	N-CA-C	12.73	123.61	110.62
1	AP	44	THR	N-CA-C	11.29	127.66	108.23
1	AJ	44	THR	N-CA-C	11.29	127.65	108.23
1	IS	44	THR	N-CA-C	11.29	127.64	108.23
1	AK	44	THR	N-CA-C	11.28	127.62	108.23
1	AD	44	THR	N-CA-C	11.26	127.59	108.23
2	E3	42	GLY	CA-C-N	10.38	134.68	120.46
2	E3	42	GLY	C-N-CA	10.38	134.68	120.46
2	Z3	42	GLY	CA-C-N	10.38	134.68	120.46
2	Z3	42	GLY	C-N-CA	10.38	134.68	120.46
2	M4	42	GLY	CA-C-N	10.38	134.68	120.46
2	M4	42	GLY	C-N-CA	10.38	134.68	120.46
2	k6	42	GLY	CA-C-N	10.38	134.68	120.46
2	k6	42	GLY	C-N-CA	10.38	134.68	120.46
2	M8	42	GLY	CA-C-N	10.38	134.68	120.46
2	M8	42	GLY	C-N-CA	10.38	134.68	120.46
2	c8	42	GLY	CA-C-N	10.38	134.68	120.46
2	c8	42	GLY	C-N-CA	10.38	134.68	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	OE	42	GLY	CA-C-N	10.38	134.68	120.46
2	OE	42	GLY	C-N-CA	10.38	134.68	120.46
2	eE	42	GLY	CA-C-N	10.38	134.68	120.46
2	eE	42	GLY	C-N-CA	10.38	134.68	120.46
2	MG	42	GLY	CA-C-N	10.38	134.68	120.46
2	MG	42	GLY	C-N-CA	10.38	134.68	120.46
2	MQ	42	GLY	CA-C-N	10.38	134.68	120.46
2	MQ	42	GLY	C-N-CA	10.38	134.68	120.46
2	E1	42	GLY	CA-C-N	10.37	134.66	120.46
2	E1	42	GLY	C-N-CA	10.37	134.66	120.46
2	M3	42	GLY	CA-C-N	10.37	134.66	120.46
2	M3	42	GLY	C-N-CA	10.37	134.66	120.46
2	E4	42	GLY	CA-C-N	10.37	134.66	120.46
2	E4	42	GLY	C-N-CA	10.37	134.66	120.46
2	E6	42	GLY	CA-C-N	10.37	134.66	120.46
2	E6	42	GLY	C-N-CA	10.37	134.66	120.46
2	c7	42	GLY	CA-C-N	10.37	134.66	120.46
2	c7	42	GLY	C-N-CA	10.37	134.66	120.46
2	U8	42	GLY	CA-C-N	10.37	134.66	120.46
2	U8	42	GLY	C-N-CA	10.37	134.66	120.46
2	k8	42	GLY	CA-C-N	10.37	134.66	120.46
2	k8	42	GLY	C-N-CA	10.37	134.66	120.46
2	EE	42	GLY	CA-C-N	10.37	134.66	120.46
2	EE	42	GLY	C-N-CA	10.37	134.66	120.46
2	UG	42	GLY	CA-C-N	10.37	134.66	120.46
2	UG	42	GLY	C-N-CA	10.37	134.66	120.46
2	MR	42	GLY	CA-C-N	10.37	134.66	120.46
2	MR	42	GLY	C-N-CA	10.37	134.66	120.46
2	b1	42	GLY	CA-C-N	10.36	134.66	120.46
2	b1	42	GLY	C-N-CA	10.36	134.66	120.46
2	j1	42	GLY	CA-C-N	10.36	134.66	120.46
2	j1	42	GLY	C-N-CA	10.36	134.66	120.46
2	E7	42	GLY	CA-C-N	10.36	134.66	120.46
2	E7	42	GLY	C-N-CA	10.36	134.66	120.46
2	EG	42	GLY	CA-C-N	10.36	134.66	120.46
2	EG	42	GLY	C-N-CA	10.36	134.66	120.46
2	kG	42	GLY	CA-C-N	10.36	134.66	120.46
2	kG	42	GLY	C-N-CA	10.36	134.66	120.46
2	ML	42	GLY	CA-C-N	10.36	134.66	120.46
2	ML	42	GLY	C-N-CA	10.36	134.66	120.46
2	UL	42	GLY	CA-C-N	10.36	134.66	120.46
2	UL	42	GLY	C-N-CA	10.36	134.66	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	UQ	42	GLY	CA-C-N	10.36	134.66	120.46
2	UQ	42	GLY	C-N-CA	10.36	134.66	120.46
2	ZQ	42	GLY	CA-C-N	10.36	134.66	120.46
2	ZQ	42	GLY	C-N-CA	10.36	134.66	120.46
2	fQ	42	GLY	CA-C-N	10.36	134.66	120.46
2	fQ	42	GLY	C-N-CA	10.36	134.66	120.46
2	M6	42	GLY	CA-C-N	10.35	134.64	120.46
2	M6	42	GLY	C-N-CA	10.35	134.64	120.46
2	U6	42	GLY	CA-C-N	10.35	134.64	120.46
2	U6	42	GLY	C-N-CA	10.35	134.64	120.46
2	M7	42	GLY	CA-C-N	10.35	134.64	120.46
2	M7	42	GLY	C-N-CA	10.35	134.64	120.46
2	U7	42	GLY	CA-C-N	10.35	134.64	120.46
2	U7	42	GLY	C-N-CA	10.35	134.64	120.46
2	EL	42	GLY	CA-C-N	10.35	134.64	120.46
2	EL	42	GLY	C-N-CA	10.35	134.64	120.46
2	cL	42	GLY	CA-C-N	10.35	134.64	120.46
2	cL	42	GLY	C-N-CA	10.35	134.64	120.46
2	hL	42	GLY	CA-C-N	10.35	134.64	120.46
2	hL	42	GLY	C-N-CA	10.35	134.64	120.46
2	EQ	42	GLY	CA-C-N	10.35	134.64	120.46
2	EQ	42	GLY	C-N-CA	10.35	134.64	120.46
2	UR	42	GLY	CA-C-N	10.35	134.64	120.46
2	UR	42	GLY	C-N-CA	10.35	134.64	120.46
2	cR	42	GLY	CA-C-N	10.35	134.64	120.46
2	cR	42	GLY	C-N-CA	10.35	134.64	120.46
2	M1	42	GLY	CA-C-N	10.35	134.63	120.46
2	M1	42	GLY	C-N-CA	10.35	134.63	120.46
2	U3	42	GLY	CA-C-N	10.35	134.63	120.46
2	U3	42	GLY	C-N-CA	10.35	134.63	120.46
2	c3	42	GLY	CA-C-N	10.35	134.63	120.46
2	c3	42	GLY	C-N-CA	10.35	134.63	120.46
2	b4	42	GLY	CA-C-N	10.35	134.63	120.46
2	b4	42	GLY	C-N-CA	10.35	134.63	120.46
2	c6	42	GLY	CA-C-N	10.35	134.63	120.46
2	c6	42	GLY	C-N-CA	10.35	134.63	120.46
2	k7	42	GLY	CA-C-N	10.35	134.63	120.46
2	k7	42	GLY	C-N-CA	10.35	134.63	120.46
2	E8	42	GLY	CA-C-N	10.35	134.63	120.46
2	E8	42	GLY	C-N-CA	10.35	134.63	120.46
2	WE	42	GLY	CA-C-N	10.35	134.63	120.46
2	WE	42	GLY	C-N-CA	10.35	134.63	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	cG	42	GLY	CA-C-N	10.35	134.63	120.46
2	cG	42	GLY	C-N-CA	10.35	134.63	120.46
2	ER	42	GLY	CA-C-N	10.35	134.63	120.46
2	ER	42	GLY	C-N-CA	10.35	134.63	120.46
2	E1	40	SER	N-CA-C	9.98	124.66	108.99
2	E3	40	SER	N-CA-C	9.98	124.65	108.99
2	M3	40	SER	N-CA-C	9.98	124.66	108.99
2	Z3	40	SER	N-CA-C	9.98	124.65	108.99
2	E4	40	SER	N-CA-C	9.98	124.66	108.99
2	M4	40	SER	N-CA-C	9.98	124.65	108.99
2	E6	40	SER	N-CA-C	9.98	124.66	108.99
2	k6	40	SER	N-CA-C	9.98	124.65	108.99
2	c7	40	SER	N-CA-C	9.98	124.66	108.99
2	M8	40	SER	N-CA-C	9.98	124.65	108.99
2	U8	40	SER	N-CA-C	9.98	124.66	108.99
2	c8	40	SER	N-CA-C	9.98	124.65	108.99
2	k8	40	SER	N-CA-C	9.98	124.66	108.99
2	EE	40	SER	N-CA-C	9.98	124.66	108.99
2	OE	40	SER	N-CA-C	9.98	124.65	108.99
2	eE	40	SER	N-CA-C	9.98	124.65	108.99
2	MG	40	SER	N-CA-C	9.98	124.65	108.99
2	UG	40	SER	N-CA-C	9.98	124.66	108.99
2	MQ	40	SER	N-CA-C	9.98	124.65	108.99
2	MR	40	SER	N-CA-C	9.98	124.66	108.99
2	b1	40	SER	N-CA-C	9.96	124.63	108.99
2	j1	40	SER	N-CA-C	9.96	124.63	108.99
2	M6	40	SER	N-CA-C	9.96	124.63	108.99
2	U6	40	SER	N-CA-C	9.96	124.63	108.99
2	E7	40	SER	N-CA-C	9.96	124.63	108.99
2	M7	40	SER	N-CA-C	9.96	124.63	108.99
2	U7	40	SER	N-CA-C	9.96	124.63	108.99
2	EG	40	SER	N-CA-C	9.96	124.63	108.99
2	kG	40	SER	N-CA-C	9.96	124.63	108.99
2	EL	40	SER	N-CA-C	9.96	124.63	108.99
2	ML	40	SER	N-CA-C	9.96	124.63	108.99
2	UL	40	SER	N-CA-C	9.96	124.63	108.99
2	cL	40	SER	N-CA-C	9.96	124.63	108.99
2	hL	40	SER	N-CA-C	9.96	124.63	108.99
2	EQ	40	SER	N-CA-C	9.96	124.63	108.99
2	UQ	40	SER	N-CA-C	9.96	124.63	108.99
2	ZQ	40	SER	N-CA-C	9.96	124.63	108.99
2	fQ	40	SER	N-CA-C	9.96	124.63	108.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	UR	40	SER	N-CA-C	9.96	124.63	108.99
2	cR	40	SER	N-CA-C	9.96	124.63	108.99
2	M1	40	SER	N-CA-C	9.96	124.62	108.99
2	U3	40	SER	N-CA-C	9.96	124.62	108.99
2	c3	40	SER	N-CA-C	9.96	124.62	108.99
2	b4	40	SER	N-CA-C	9.96	124.62	108.99
2	c6	40	SER	N-CA-C	9.96	124.62	108.99
2	k7	40	SER	N-CA-C	9.96	124.62	108.99
2	E8	40	SER	N-CA-C	9.96	124.62	108.99
2	WE	40	SER	N-CA-C	9.96	124.62	108.99
2	cG	40	SER	N-CA-C	9.96	124.62	108.99
2	ER	40	SER	N-CA-C	9.96	124.62	108.99
1	Q1	326	GLU	N-CA-C	9.79	123.18	111.82
1	X1	326	GLU	N-CA-C	9.79	123.18	111.82
1	f1	326	GLU	N-CA-C	9.79	123.18	111.82
1	C7	326	GLU	N-CA-C	9.79	123.18	111.82
1	CG	326	GLU	N-CA-C	9.79	123.18	111.82
1	gG	326	GLU	N-CA-C	9.79	123.18	111.82
1	IL	326	GLU	N-CA-C	9.79	123.18	111.82
1	QL	326	GLU	N-CA-C	9.79	123.18	111.82
1	QQ	326	GLU	N-CA-C	9.79	123.18	111.82
1	bQ	326	GLU	N-CA-C	9.79	123.18	111.82
1	I1	326	GLU	N-CA-C	9.78	123.17	111.82
1	Q3	326	GLU	N-CA-C	9.78	123.17	111.82
1	X4	326	GLU	N-CA-C	9.78	123.17	111.82
1	Y6	326	GLU	N-CA-C	9.78	123.17	111.82
1	g7	326	GLU	N-CA-C	9.78	123.17	111.82
1	C8	326	GLU	N-CA-C	9.78	123.17	111.82
1	AE	326	GLU	N-CA-C	9.78	123.17	111.82
1	SE	326	GLU	N-CA-C	9.78	123.17	111.82
1	YG	326	GLU	N-CA-C	9.78	123.17	111.82
1	CR	326	GLU	N-CA-C	9.78	123.17	111.82
1	C3	326	GLU	N-CA-C	9.76	123.14	111.82
1	I4	326	GLU	N-CA-C	9.76	123.14	111.82
1	f4	326	GLU	N-CA-C	9.76	123.14	111.82
1	g6	326	GLU	N-CA-C	9.76	123.14	111.82
1	I8	326	GLU	N-CA-C	9.76	123.14	111.82
1	Y8	326	GLU	N-CA-C	9.76	123.14	111.82
1	KE	326	GLU	N-CA-C	9.76	123.14	111.82
1	aE	326	GLU	N-CA-C	9.76	123.14	111.82
1	IG	326	GLU	N-CA-C	9.76	123.14	111.82
1	IQ	326	GLU	N-CA-C	9.76	123.14	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I6	326	GLU	N-CA-C	9.74	123.12	111.82
1	Q6	326	GLU	N-CA-C	9.74	123.12	111.82
1	I7	326	GLU	N-CA-C	9.74	123.12	111.82
1	Q7	326	GLU	N-CA-C	9.74	123.12	111.82
1	CL	326	GLU	N-CA-C	9.74	123.12	111.82
1	YL	326	GLU	N-CA-C	9.74	123.12	111.82
1	CQ	326	GLU	N-CA-C	9.74	123.12	111.82
1	QR	326	GLU	N-CA-C	9.74	123.12	111.82
1	YR	326	GLU	N-CA-C	9.74	123.12	111.82
1	gR	326	GLU	N-CA-C	9.74	123.12	111.82
1	C1	326	GLU	N-CA-C	9.73	123.10	111.82
1	I3	326	GLU	N-CA-C	9.73	123.10	111.82
1	C4	326	GLU	N-CA-C	9.73	123.10	111.82
1	Q4	326	GLU	N-CA-C	9.73	123.10	111.82
1	C6	326	GLU	N-CA-C	9.73	123.10	111.82
1	Y7	326	GLU	N-CA-C	9.73	123.10	111.82
1	Q8	326	GLU	N-CA-C	9.73	123.10	111.82
1	g8	326	GLU	N-CA-C	9.73	123.10	111.82
1	QG	326	GLU	N-CA-C	9.73	123.10	111.82
1	IR	326	GLU	N-CA-C	9.73	123.10	111.82
1	AD	45	MET	CA-C-N	9.33	139.36	121.54
1	AD	45	MET	C-N-CA	9.33	139.36	121.54
1	IS	45	MET	CA-C-N	9.33	139.36	121.54
1	IS	45	MET	C-N-CA	9.33	139.36	121.54
1	AJ	45	MET	CA-C-N	9.33	139.36	121.54
1	AJ	45	MET	C-N-CA	9.33	139.36	121.54
1	AP	45	MET	CA-C-N	9.32	139.35	121.54
1	AP	45	MET	C-N-CA	9.32	139.35	121.54
1	AK	45	MET	CA-C-N	9.31	139.32	121.54
1	AK	45	MET	C-N-CA	9.31	139.32	121.54
1	B1	259	PHE	N-CA-C	-8.93	95.12	109.76
1	K3	259	PHE	N-CA-C	-8.93	95.12	109.76
1	B4	259	PHE	N-CA-C	-8.93	95.12	109.76
1	S4	259	PHE	N-CA-C	-8.93	95.12	109.76
1	B6	259	PHE	N-CA-C	-8.93	95.12	109.76
1	a7	259	PHE	N-CA-C	-8.93	95.12	109.76
1	S8	259	PHE	N-CA-C	-8.93	95.12	109.76
1	i8	259	PHE	N-CA-C	-8.93	95.12	109.76
1	SG	259	PHE	N-CA-C	-8.93	95.12	109.76
1	KR	259	PHE	N-CA-C	-8.93	95.12	109.76
1	B3	259	PHE	N-CA-C	-8.92	95.13	109.76
1	K4	259	PHE	N-CA-C	-8.92	95.13	109.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h4	259	PHE	N-CA-C	-8.92	95.13	109.76
1	i6	259	PHE	N-CA-C	-8.92	95.13	109.76
1	K8	259	PHE	N-CA-C	-8.92	95.13	109.76
1	a8	259	PHE	N-CA-C	-8.92	95.13	109.76
1	ME	259	PHE	N-CA-C	-8.92	95.13	109.76
1	cE	259	PHE	N-CA-C	-8.92	95.13	109.76
1	KG	259	PHE	N-CA-C	-8.92	95.13	109.76
1	KQ	259	PHE	N-CA-C	-8.92	95.13	109.76
1	K1	259	PHE	N-CA-C	-8.91	95.14	109.76
1	S1	259	PHE	N-CA-C	-8.91	95.14	109.76
1	Z1	259	PHE	N-CA-C	-8.91	95.14	109.76
1	h1	259	PHE	N-CA-C	-8.91	95.14	109.76
1	S3	259	PHE	N-CA-C	-8.91	95.14	109.76
1	Z4	259	PHE	N-CA-C	-8.91	95.14	109.76
1	a6	259	PHE	N-CA-C	-8.91	95.14	109.76
1	i7	259	PHE	N-CA-C	-8.91	95.14	109.76
1	B8	259	PHE	N-CA-C	-8.91	95.14	109.76
1	CE	259	PHE	N-CA-C	-8.91	95.14	109.76
1	UE	259	PHE	N-CA-C	-8.91	95.14	109.76
1	aG	259	PHE	N-CA-C	-8.91	95.14	109.76
1	K6	259	PHE	N-CA-C	-8.91	95.14	109.76
1	S6	259	PHE	N-CA-C	-8.91	95.14	109.76
1	B7	259	PHE	N-CA-C	-8.91	95.14	109.76
1	K7	259	PHE	N-CA-C	-8.91	95.14	109.76
1	S7	259	PHE	N-CA-C	-8.91	95.14	109.76
1	BG	259	PHE	N-CA-C	-8.91	95.14	109.76
1	iG	259	PHE	N-CA-C	-8.91	95.14	109.76
1	BL	259	PHE	N-CA-C	-8.91	95.14	109.76
1	KL	259	PHE	N-CA-C	-8.91	95.14	109.76
1	SL	259	PHE	N-CA-C	-8.91	95.14	109.76
1	BR	259	PHE	N-CA-C	-8.91	95.14	109.76
1	aL	259	PHE	N-CA-C	-8.91	95.14	109.76
1	BQ	259	PHE	N-CA-C	-8.91	95.14	109.76
1	SQ	259	PHE	N-CA-C	-8.91	95.14	109.76
1	dQ	259	PHE	N-CA-C	-8.91	95.14	109.76
1	SR	259	PHE	N-CA-C	-8.91	95.14	109.76
1	aR	259	PHE	N-CA-C	-8.91	95.14	109.76
1	iR	259	PHE	N-CA-C	-8.91	95.14	109.76
1	AJ	46	PHE	N-CA-C	8.01	127.86	110.80
1	AP	46	PHE	N-CA-C	8.00	127.84	110.80
1	IS	46	PHE	N-CA-C	8.00	127.84	110.80
1	AK	46	PHE	N-CA-C	8.00	127.83	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AD	46	PHE	N-CA-C	7.99	127.82	110.80
2	b1	45	ILE	N-CA-C	7.84	125.65	109.34
2	j1	45	ILE	N-CA-C	7.84	125.65	109.34
2	E7	45	ILE	N-CA-C	7.84	125.65	109.34
2	EG	45	ILE	N-CA-C	7.84	125.65	109.34
2	kG	45	ILE	N-CA-C	7.84	125.65	109.34
2	ML	45	ILE	N-CA-C	7.84	125.65	109.34
2	UL	45	ILE	N-CA-C	7.84	125.65	109.34
2	UQ	45	ILE	N-CA-C	7.84	125.65	109.34
2	ZQ	45	ILE	N-CA-C	7.84	125.65	109.34
2	fQ	45	ILE	N-CA-C	7.84	125.65	109.34
2	E1	45	ILE	N-CA-C	7.83	125.62	109.34
2	M3	45	ILE	N-CA-C	7.83	125.62	109.34
2	E4	45	ILE	N-CA-C	7.83	125.62	109.34
2	E6	45	ILE	N-CA-C	7.83	125.62	109.34
2	c7	45	ILE	N-CA-C	7.83	125.62	109.34
2	U8	45	ILE	N-CA-C	7.83	125.62	109.34
2	k8	45	ILE	N-CA-C	7.83	125.62	109.34
2	HD	40	SER	N-CA-C	7.83	120.30	107.23
2	EE	45	ILE	N-CA-C	7.83	125.62	109.34
2	UG	45	ILE	N-CA-C	7.83	125.62	109.34
2	HP	40	SER	N-CA-C	7.83	120.30	107.23
2	MR	45	ILE	N-CA-C	7.83	125.62	109.34
2	GS	40	SER	N-CA-C	7.82	120.30	107.23
2	HJ	40	SER	N-CA-C	7.82	120.29	107.23
2	E3	45	ILE	N-CA-C	7.82	125.60	109.34
2	Z3	45	ILE	N-CA-C	7.82	125.60	109.34
2	M4	45	ILE	N-CA-C	7.82	125.60	109.34
2	k6	45	ILE	N-CA-C	7.82	125.60	109.34
2	M8	45	ILE	N-CA-C	7.82	125.60	109.34
2	c8	45	ILE	N-CA-C	7.82	125.60	109.34
2	OE	45	ILE	N-CA-C	7.82	125.60	109.34
2	eE	45	ILE	N-CA-C	7.82	125.60	109.34
2	MG	45	ILE	N-CA-C	7.82	125.60	109.34
2	MQ	45	ILE	N-CA-C	7.82	125.60	109.34
2	HK	40	SER	N-CA-C	7.81	120.27	107.23
2	M1	45	ILE	N-CA-C	7.81	125.58	109.34
2	U3	45	ILE	N-CA-C	7.81	125.58	109.34
2	c3	45	ILE	N-CA-C	7.81	125.58	109.34
2	b4	45	ILE	N-CA-C	7.81	125.58	109.34
2	M6	45	ILE	N-CA-C	7.81	125.58	109.34
2	U6	45	ILE	N-CA-C	7.81	125.58	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	c6	45	ILE	N-CA-C	7.81	125.58	109.34
2	M7	45	ILE	N-CA-C	7.81	125.58	109.34
2	U7	45	ILE	N-CA-C	7.81	125.58	109.34
2	k7	45	ILE	N-CA-C	7.81	125.58	109.34
2	E8	45	ILE	N-CA-C	7.81	125.58	109.34
2	WE	45	ILE	N-CA-C	7.81	125.58	109.34
2	cG	45	ILE	N-CA-C	7.81	125.58	109.34
2	EL	45	ILE	N-CA-C	7.81	125.58	109.34
2	cL	45	ILE	N-CA-C	7.81	125.58	109.34
2	hL	45	ILE	N-CA-C	7.81	125.58	109.34
2	EQ	45	ILE	N-CA-C	7.81	125.58	109.34
2	ER	45	ILE	N-CA-C	7.81	125.58	109.34
2	UR	45	ILE	N-CA-C	7.81	125.58	109.34
2	cR	45	ILE	N-CA-C	7.81	125.58	109.34
1	C1	207	ASN	N-CA-C	-7.71	102.93	113.18
1	I3	207	ASN	N-CA-C	-7.71	102.93	113.18
1	C4	207	ASN	N-CA-C	-7.71	102.93	113.18
1	Q4	207	ASN	N-CA-C	-7.71	102.93	113.18
1	C6	207	ASN	N-CA-C	-7.71	102.93	113.18
1	Y7	207	ASN	N-CA-C	-7.71	102.93	113.18
1	Q8	207	ASN	N-CA-C	-7.71	102.93	113.18
1	g8	207	ASN	N-CA-C	-7.71	102.93	113.18
1	QG	207	ASN	N-CA-C	-7.71	102.93	113.18
1	IR	207	ASN	N-CA-C	-7.71	102.93	113.18
1	C3	207	ASN	N-CA-C	-7.68	102.96	113.18
1	I4	207	ASN	N-CA-C	-7.68	102.96	113.18
1	f4	207	ASN	N-CA-C	-7.68	102.96	113.18
1	g6	207	ASN	N-CA-C	-7.68	102.96	113.18
1	I8	207	ASN	N-CA-C	-7.68	102.96	113.18
1	Y8	207	ASN	N-CA-C	-7.68	102.96	113.18
1	KE	207	ASN	N-CA-C	-7.68	102.96	113.18
1	aE	207	ASN	N-CA-C	-7.68	102.96	113.18
1	IG	207	ASN	N-CA-C	-7.68	102.96	113.18
1	IQ	207	ASN	N-CA-C	-7.68	102.96	113.18
1	Q1	207	ASN	N-CA-C	-7.68	102.96	113.18
1	X1	207	ASN	N-CA-C	-7.68	102.96	113.18
1	f1	207	ASN	N-CA-C	-7.68	102.96	113.18
1	C7	207	ASN	N-CA-C	-7.68	102.96	113.18
1	CG	207	ASN	N-CA-C	-7.68	102.96	113.18
1	gG	207	ASN	N-CA-C	-7.68	102.96	113.18
1	IL	207	ASN	N-CA-C	-7.68	102.96	113.18
1	QL	207	ASN	N-CA-C	-7.68	102.96	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	QQ	207	ASN	N-CA-C	-7.68	102.96	113.18
1	bQ	207	ASN	N-CA-C	-7.68	102.96	113.18
1	I6	207	ASN	N-CA-C	-7.67	102.98	113.18
1	Q6	207	ASN	N-CA-C	-7.67	102.98	113.18
1	I7	207	ASN	N-CA-C	-7.67	102.98	113.18
1	Q7	207	ASN	N-CA-C	-7.67	102.98	113.18
1	CL	207	ASN	N-CA-C	-7.67	102.98	113.18
1	YL	207	ASN	N-CA-C	-7.67	102.98	113.18
1	CQ	207	ASN	N-CA-C	-7.67	102.98	113.18
1	QR	207	ASN	N-CA-C	-7.67	102.98	113.18
1	YR	207	ASN	N-CA-C	-7.67	102.98	113.18
1	gR	207	ASN	N-CA-C	-7.67	102.98	113.18
1	I1	207	ASN	N-CA-C	-7.67	102.98	113.18
1	Q3	207	ASN	N-CA-C	-7.67	102.98	113.18
1	X4	207	ASN	N-CA-C	-7.67	102.98	113.18
1	Y6	207	ASN	N-CA-C	-7.67	102.98	113.18
1	g7	207	ASN	N-CA-C	-7.67	102.98	113.18
1	C8	207	ASN	N-CA-C	-7.67	102.98	113.18
1	AE	207	ASN	N-CA-C	-7.67	102.98	113.18
1	SE	207	ASN	N-CA-C	-7.67	102.98	113.18
1	YG	207	ASN	N-CA-C	-7.67	102.98	113.18
1	CR	207	ASN	N-CA-C	-7.67	102.98	113.18
1	AK	49	PHE	CA-C-N	-7.57	108.35	121.97
1	AK	49	PHE	C-N-CA	-7.57	108.35	121.97
1	AD	49	PHE	CA-C-N	-7.57	108.35	121.97
1	AD	49	PHE	C-N-CA	-7.57	108.35	121.97
1	AP	49	PHE	CA-C-N	-7.55	108.38	121.97
1	AP	49	PHE	C-N-CA	-7.55	108.38	121.97
1	IS	49	PHE	CA-C-N	-7.55	108.39	121.97
1	IS	49	PHE	C-N-CA	-7.55	108.39	121.97
1	AJ	49	PHE	CA-C-N	-7.54	108.40	121.97
1	AJ	49	PHE	C-N-CA	-7.54	108.40	121.97
1	Q1	259	PHE	N-CA-C	7.43	119.17	111.14
1	X1	259	PHE	N-CA-C	7.43	119.17	111.14
1	f1	259	PHE	N-CA-C	7.43	119.17	111.14
1	C7	259	PHE	N-CA-C	7.43	119.17	111.14
1	CG	259	PHE	N-CA-C	7.43	119.17	111.14
1	gG	259	PHE	N-CA-C	7.43	119.17	111.14
1	IL	259	PHE	N-CA-C	7.43	119.17	111.14
1	QL	259	PHE	N-CA-C	7.43	119.17	111.14
1	QQ	259	PHE	N-CA-C	7.43	119.17	111.14
1	bQ	259	PHE	N-CA-C	7.43	119.17	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C3	259	PHE	N-CA-C	7.43	119.16	111.14
1	I4	259	PHE	N-CA-C	7.43	119.16	111.14
1	f4	259	PHE	N-CA-C	7.43	119.16	111.14
1	g6	259	PHE	N-CA-C	7.43	119.16	111.14
1	I8	259	PHE	N-CA-C	7.43	119.16	111.14
1	Y8	259	PHE	N-CA-C	7.43	119.16	111.14
1	KE	259	PHE	N-CA-C	7.43	119.16	111.14
1	aE	259	PHE	N-CA-C	7.43	119.16	111.14
1	IG	259	PHE	N-CA-C	7.43	119.16	111.14
1	IQ	259	PHE	N-CA-C	7.43	119.16	111.14
1	I1	259	PHE	N-CA-C	7.42	119.16	111.14
1	Q3	259	PHE	N-CA-C	7.42	119.16	111.14
1	X4	259	PHE	N-CA-C	7.42	119.16	111.14
1	Y6	259	PHE	N-CA-C	7.42	119.16	111.14
1	g7	259	PHE	N-CA-C	7.42	119.16	111.14
1	C8	259	PHE	N-CA-C	7.42	119.16	111.14
1	AE	259	PHE	N-CA-C	7.42	119.16	111.14
1	SE	259	PHE	N-CA-C	7.42	119.16	111.14
1	YG	259	PHE	N-CA-C	7.42	119.16	111.14
1	CR	259	PHE	N-CA-C	7.42	119.16	111.14
1	C1	259	PHE	N-CA-C	7.41	119.14	111.14
1	I3	259	PHE	N-CA-C	7.41	119.14	111.14
1	C4	259	PHE	N-CA-C	7.41	119.14	111.14
1	Q4	259	PHE	N-CA-C	7.41	119.14	111.14
1	C6	259	PHE	N-CA-C	7.41	119.14	111.14
1	Y7	259	PHE	N-CA-C	7.41	119.14	111.14
1	Q8	259	PHE	N-CA-C	7.41	119.14	111.14
1	g8	259	PHE	N-CA-C	7.41	119.14	111.14
1	QG	259	PHE	N-CA-C	7.41	119.14	111.14
1	IR	259	PHE	N-CA-C	7.41	119.14	111.14
1	I6	259	PHE	N-CA-C	7.41	119.14	111.14
1	Q6	259	PHE	N-CA-C	7.41	119.14	111.14
1	I7	259	PHE	N-CA-C	7.41	119.14	111.14
1	Q7	259	PHE	N-CA-C	7.41	119.14	111.14
1	CL	259	PHE	N-CA-C	7.41	119.14	111.14
1	YL	259	PHE	N-CA-C	7.41	119.14	111.14
1	CQ	259	PHE	N-CA-C	7.41	119.14	111.14
1	QR	259	PHE	N-CA-C	7.41	119.14	111.14
1	YR	259	PHE	N-CA-C	7.41	119.14	111.14
1	gR	259	PHE	N-CA-C	7.41	119.14	111.14
1	AP	49	PHE	CA-C-O	7.40	131.09	120.51
1	AJ	49	PHE	CA-C-O	7.39	131.07	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	IS	49	PHE	CA-C-O	7.38	131.06	120.51
1	AD	49	PHE	CA-C-O	7.36	131.03	120.51
1	AK	49	PHE	CA-C-O	7.34	131.00	120.51
1	AK	43	ASN	CA-C-N	7.13	133.72	122.17
1	AK	43	ASN	C-N-CA	7.13	133.72	122.17
1	AD	43	ASN	CA-C-N	7.12	133.71	122.17
1	AD	43	ASN	C-N-CA	7.12	133.71	122.17
1	AJ	43	ASN	CA-C-N	7.12	133.71	122.17
1	AJ	43	ASN	C-N-CA	7.12	133.71	122.17
1	IS	43	ASN	CA-C-N	7.11	133.69	122.17
1	IS	43	ASN	C-N-CA	7.11	133.69	122.17
1	AP	43	ASN	CA-C-N	7.09	133.66	122.17
1	AP	43	ASN	C-N-CA	7.09	133.66	122.17
1	B3	326	GLU	N-CA-C	7.05	121.97	113.23
1	K4	326	GLU	N-CA-C	7.05	121.97	113.23
1	h4	326	GLU	N-CA-C	7.05	121.97	113.23
1	i6	326	GLU	N-CA-C	7.05	121.97	113.23
1	K8	326	GLU	N-CA-C	7.05	121.97	113.23
1	a8	326	GLU	N-CA-C	7.05	121.97	113.23
1	ME	326	GLU	N-CA-C	7.05	121.97	113.23
1	cE	326	GLU	N-CA-C	7.05	121.97	113.23
1	KG	326	GLU	N-CA-C	7.05	121.97	113.23
1	KQ	326	GLU	N-CA-C	7.05	121.97	113.23
1	B1	326	GLU	N-CA-C	7.04	121.96	113.23
1	K3	326	GLU	N-CA-C	7.04	121.96	113.23
1	B4	326	GLU	N-CA-C	7.04	121.96	113.23
1	S4	326	GLU	N-CA-C	7.04	121.96	113.23
1	B6	326	GLU	N-CA-C	7.04	121.96	113.23
1	a7	326	GLU	N-CA-C	7.04	121.96	113.23
1	S8	326	GLU	N-CA-C	7.04	121.96	113.23
1	i8	326	GLU	N-CA-C	7.04	121.96	113.23
1	SG	326	GLU	N-CA-C	7.04	121.96	113.23
1	KR	326	GLU	N-CA-C	7.04	121.96	113.23
1	K6	326	GLU	N-CA-C	7.04	121.96	113.23
1	S6	326	GLU	N-CA-C	7.04	121.96	113.23
1	K7	326	GLU	N-CA-C	7.04	121.96	113.23
1	S7	326	GLU	N-CA-C	7.04	121.96	113.23
1	BL	326	GLU	N-CA-C	7.04	121.96	113.23
1	aL	326	GLU	N-CA-C	7.04	121.96	113.23
1	BQ	326	GLU	N-CA-C	7.04	121.96	113.23
1	SR	326	GLU	N-CA-C	7.04	121.96	113.23
1	aR	326	GLU	N-CA-C	7.04	121.96	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iR	326	GLU	N-CA-C	7.04	121.96	113.23
1	S1	326	GLU	N-CA-C	7.02	121.94	113.23
1	Z1	326	GLU	N-CA-C	7.02	121.94	113.23
1	h1	326	GLU	N-CA-C	7.02	121.94	113.23
1	B7	326	GLU	N-CA-C	7.02	121.94	113.23
1	BG	326	GLU	N-CA-C	7.02	121.94	113.23
1	iG	326	GLU	N-CA-C	7.02	121.94	113.23
1	KL	326	GLU	N-CA-C	7.02	121.94	113.23
1	SL	326	GLU	N-CA-C	7.02	121.94	113.23
1	SQ	326	GLU	N-CA-C	7.02	121.94	113.23
1	dQ	326	GLU	N-CA-C	7.02	121.94	113.23
1	K1	326	GLU	N-CA-C	7.01	121.93	113.23
1	S3	326	GLU	N-CA-C	7.01	121.93	113.23
1	Z4	326	GLU	N-CA-C	7.01	121.93	113.23
1	a6	326	GLU	N-CA-C	7.01	121.93	113.23
1	i7	326	GLU	N-CA-C	7.01	121.93	113.23
1	B8	326	GLU	N-CA-C	7.01	121.93	113.23
1	CE	326	GLU	N-CA-C	7.01	121.93	113.23
1	UE	326	GLU	N-CA-C	7.01	121.93	113.23
1	aG	326	GLU	N-CA-C	7.01	121.93	113.23
1	BR	326	GLU	N-CA-C	7.01	121.93	113.23
2	N6	45	ILE	CA-C-N	6.93	134.78	121.54
2	N6	45	ILE	C-N-CA	6.93	134.78	121.54
2	V6	45	ILE	CA-C-N	6.93	134.78	121.54
2	V6	45	ILE	C-N-CA	6.93	134.78	121.54
2	N7	45	ILE	CA-C-N	6.93	134.78	121.54
2	N7	45	ILE	C-N-CA	6.93	134.78	121.54
2	V7	45	ILE	CA-C-N	6.93	134.78	121.54
2	V7	45	ILE	C-N-CA	6.93	134.78	121.54
2	FL	45	ILE	CA-C-N	6.93	134.78	121.54
2	FL	45	ILE	C-N-CA	6.93	134.78	121.54
2	dL	45	ILE	CA-C-N	6.93	134.78	121.54
2	dL	45	ILE	C-N-CA	6.93	134.78	121.54
2	FQ	45	ILE	CA-C-N	6.93	134.78	121.54
2	FQ	45	ILE	C-N-CA	6.93	134.78	121.54
2	VR	45	ILE	CA-C-N	6.93	134.78	121.54
2	VR	45	ILE	C-N-CA	6.93	134.78	121.54
2	dR	45	ILE	CA-C-N	6.93	134.78	121.54
2	dR	45	ILE	C-N-CA	6.93	134.78	121.54
2	kR	45	ILE	CA-C-N	6.93	134.78	121.54
2	kR	45	ILE	C-N-CA	6.93	134.78	121.54
2	U1	45	ILE	CA-C-N	6.92	134.76	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	U1	45	ILE	C-N-CA	6.92	134.76	121.54
2	c1	45	ILE	CA-C-N	6.92	134.76	121.54
2	c1	45	ILE	C-N-CA	6.92	134.76	121.54
2	k1	45	ILE	CA-C-N	6.92	134.76	121.54
2	k1	45	ILE	C-N-CA	6.92	134.76	121.54
2	F7	45	ILE	CA-C-N	6.92	134.76	121.54
2	F7	45	ILE	C-N-CA	6.92	134.76	121.54
2	FG	45	ILE	CA-C-N	6.92	134.76	121.54
2	FG	45	ILE	C-N-CA	6.92	134.76	121.54
2	lG	45	ILE	CA-C-N	6.92	134.76	121.54
2	lG	45	ILE	C-N-CA	6.92	134.76	121.54
2	NL	45	ILE	CA-C-N	6.92	134.76	121.54
2	NL	45	ILE	C-N-CA	6.92	134.76	121.54
2	VL	45	ILE	CA-C-N	6.92	134.76	121.54
2	VL	45	ILE	C-N-CA	6.92	134.76	121.54
2	VQ	45	ILE	CA-C-N	6.92	134.76	121.54
2	VQ	45	ILE	C-N-CA	6.92	134.76	121.54
2	gQ	45	ILE	CA-C-N	6.92	134.76	121.54
2	gQ	45	ILE	C-N-CA	6.92	134.76	121.54
2	F3	45	ILE	CA-C-N	6.92	134.75	121.54
2	F3	45	ILE	C-N-CA	6.92	134.75	121.54
2	N4	45	ILE	CA-C-N	6.92	134.75	121.54
2	N4	45	ILE	C-N-CA	6.92	134.75	121.54
2	j4	45	ILE	CA-C-N	6.92	134.75	121.54
2	j4	45	ILE	C-N-CA	6.92	134.75	121.54
2	l6	45	ILE	CA-C-N	6.92	134.75	121.54
2	l6	45	ILE	C-N-CA	6.92	134.75	121.54
2	N8	45	ILE	CA-C-N	6.92	134.75	121.54
2	N8	45	ILE	C-N-CA	6.92	134.75	121.54
2	d8	45	ILE	CA-C-N	6.92	134.75	121.54
2	d8	45	ILE	C-N-CA	6.92	134.75	121.54
2	PE	45	ILE	CA-C-N	6.92	134.75	121.54
2	PE	45	ILE	C-N-CA	6.92	134.75	121.54
2	fE	45	ILE	CA-C-N	6.92	134.75	121.54
2	fE	45	ILE	C-N-CA	6.92	134.75	121.54
2	NG	45	ILE	CA-C-N	6.92	134.75	121.54
2	NG	45	ILE	C-N-CA	6.92	134.75	121.54
2	NQ	45	ILE	CA-C-N	6.92	134.75	121.54
2	NQ	45	ILE	C-N-CA	6.92	134.75	121.54
2	N1	45	ILE	CA-C-N	6.91	134.73	121.54
2	N1	45	ILE	C-N-CA	6.91	134.73	121.54
2	V3	45	ILE	CA-C-N	6.91	134.73	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	V3	45	ILE	C-N-CA	6.91	134.73	121.54
2	c4	45	ILE	CA-C-N	6.91	134.73	121.54
2	c4	45	ILE	C-N-CA	6.91	134.73	121.54
2	d6	45	ILE	CA-C-N	6.91	134.73	121.54
2	d6	45	ILE	C-N-CA	6.91	134.73	121.54
2	l7	45	ILE	CA-C-N	6.91	134.73	121.54
2	l7	45	ILE	C-N-CA	6.91	134.73	121.54
2	F8	45	ILE	CA-C-N	6.91	134.73	121.54
2	F8	45	ILE	C-N-CA	6.91	134.73	121.54
2	HE	45	ILE	CA-C-N	6.91	134.73	121.54
2	HE	45	ILE	C-N-CA	6.91	134.73	121.54
2	XE	45	ILE	CA-C-N	6.91	134.73	121.54
2	XE	45	ILE	C-N-CA	6.91	134.73	121.54
2	dG	45	ILE	CA-C-N	6.91	134.73	121.54
2	dG	45	ILE	C-N-CA	6.91	134.73	121.54
2	FR	45	ILE	CA-C-N	6.91	134.73	121.54
2	FR	45	ILE	C-N-CA	6.91	134.73	121.54
2	F1	45	ILE	CA-C-N	6.90	134.72	121.54
2	F1	45	ILE	C-N-CA	6.90	134.72	121.54
2	N3	45	ILE	CA-C-N	6.90	134.72	121.54
2	N3	45	ILE	C-N-CA	6.90	134.72	121.54
2	F4	45	ILE	CA-C-N	6.90	134.72	121.54
2	F4	45	ILE	C-N-CA	6.90	134.72	121.54
2	U4	45	ILE	CA-C-N	6.90	134.72	121.54
2	U4	45	ILE	C-N-CA	6.90	134.72	121.54
2	F6	45	ILE	CA-C-N	6.90	134.72	121.54
2	F6	45	ILE	C-N-CA	6.90	134.72	121.54
2	d7	45	ILE	CA-C-N	6.90	134.72	121.54
2	d7	45	ILE	C-N-CA	6.90	134.72	121.54
2	V8	45	ILE	CA-C-N	6.90	134.72	121.54
2	V8	45	ILE	C-N-CA	6.90	134.72	121.54
2	l8	45	ILE	CA-C-N	6.90	134.72	121.54
2	l8	45	ILE	C-N-CA	6.90	134.72	121.54
2	VG	45	ILE	CA-C-N	6.90	134.72	121.54
2	VG	45	ILE	C-N-CA	6.90	134.72	121.54
2	NR	45	ILE	CA-C-N	6.90	134.72	121.54
2	NR	45	ILE	C-N-CA	6.90	134.72	121.54
1	A3	74	TRP	N-CA-C	-6.79	103.67	112.23
1	J4	74	TRP	N-CA-C	-6.79	103.67	112.23
1	g4	74	TRP	N-CA-C	-6.79	103.67	112.23
1	h6	74	TRP	N-CA-C	-6.79	103.67	112.23
1	J8	74	TRP	N-CA-C	-6.79	103.67	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z8	74	TRP	N-CA-C	-6.79	103.67	112.23
1	LE	74	TRP	N-CA-C	-6.79	103.67	112.23
1	bE	74	TRP	N-CA-C	-6.79	103.67	112.23
1	JG	74	TRP	N-CA-C	-6.79	103.67	112.23
1	JQ	74	TRP	N-CA-C	-6.79	103.67	112.23
1	J1	74	TRP	N-CA-C	-6.79	103.68	112.23
1	R3	74	TRP	N-CA-C	-6.79	103.68	112.23
1	Y4	74	TRP	N-CA-C	-6.79	103.68	112.23
1	Z6	74	TRP	N-CA-C	-6.79	103.68	112.23
1	h7	74	TRP	N-CA-C	-6.79	103.68	112.23
1	A8	74	TRP	N-CA-C	-6.79	103.68	112.23
1	BE	74	TRP	N-CA-C	-6.79	103.68	112.23
1	TE	74	TRP	N-CA-C	-6.79	103.68	112.23
1	ZG	74	TRP	N-CA-C	-6.79	103.68	112.23
1	AR	74	TRP	N-CA-C	-6.79	103.68	112.23
1	R1	74	TRP	N-CA-C	-6.78	103.69	112.23
1	Y1	74	TRP	N-CA-C	-6.78	103.69	112.23
1	g1	74	TRP	N-CA-C	-6.78	103.69	112.23
1	A7	74	TRP	N-CA-C	-6.78	103.69	112.23
1	AG	74	TRP	N-CA-C	-6.78	103.69	112.23
1	hG	74	TRP	N-CA-C	-6.78	103.69	112.23
1	JL	74	TRP	N-CA-C	-6.78	103.69	112.23
1	RL	74	TRP	N-CA-C	-6.78	103.69	112.23
1	RQ	74	TRP	N-CA-C	-6.78	103.69	112.23
1	cQ	74	TRP	N-CA-C	-6.78	103.69	112.23
1	J6	74	TRP	N-CA-C	-6.76	103.71	112.23
1	R6	74	TRP	N-CA-C	-6.76	103.71	112.23
1	J7	74	TRP	N-CA-C	-6.76	103.71	112.23
1	R7	74	TRP	N-CA-C	-6.76	103.71	112.23
1	AL	74	TRP	N-CA-C	-6.76	103.71	112.23
1	ZL	74	TRP	N-CA-C	-6.76	103.71	112.23
1	AQ	74	TRP	N-CA-C	-6.76	103.71	112.23
1	RR	74	TRP	N-CA-C	-6.76	103.71	112.23
1	ZR	74	TRP	N-CA-C	-6.76	103.71	112.23
1	hR	74	TRP	N-CA-C	-6.76	103.71	112.23
1	A1	74	TRP	N-CA-C	-6.76	103.71	112.23
1	J3	74	TRP	N-CA-C	-6.76	103.71	112.23
1	A4	74	TRP	N-CA-C	-6.76	103.71	112.23
1	R4	74	TRP	N-CA-C	-6.76	103.71	112.23
1	A6	74	TRP	N-CA-C	-6.76	103.71	112.23
1	Z7	74	TRP	N-CA-C	-6.76	103.71	112.23
1	R8	74	TRP	N-CA-C	-6.76	103.71	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h8	74	TRP	N-CA-C	-6.76	103.71	112.23
1	RG	74	TRP	N-CA-C	-6.76	103.71	112.23
1	JR	74	TRP	N-CA-C	-6.76	103.71	112.23
1	Q1	205	ILE	N-CA-C	-6.61	99.33	109.78
1	X1	205	ILE	N-CA-C	-6.61	99.33	109.78
1	f1	205	ILE	N-CA-C	-6.61	99.33	109.78
1	C7	205	ILE	N-CA-C	-6.61	99.33	109.78
1	CG	205	ILE	N-CA-C	-6.61	99.33	109.78
1	gG	205	ILE	N-CA-C	-6.61	99.33	109.78
1	IL	205	ILE	N-CA-C	-6.61	99.33	109.78
1	QL	205	ILE	N-CA-C	-6.61	99.33	109.78
1	QQ	205	ILE	N-CA-C	-6.61	99.33	109.78
1	bQ	205	ILE	N-CA-C	-6.61	99.33	109.78
1	I6	205	ILE	N-CA-C	-6.60	99.36	109.78
1	Q6	205	ILE	N-CA-C	-6.60	99.36	109.78
1	I7	205	ILE	N-CA-C	-6.60	99.36	109.78
1	Q7	205	ILE	N-CA-C	-6.60	99.36	109.78
1	CL	205	ILE	N-CA-C	-6.60	99.36	109.78
1	YL	205	ILE	N-CA-C	-6.60	99.36	109.78
1	CQ	205	ILE	N-CA-C	-6.60	99.36	109.78
1	QR	205	ILE	N-CA-C	-6.60	99.36	109.78
1	YR	205	ILE	N-CA-C	-6.60	99.36	109.78
1	gR	205	ILE	N-CA-C	-6.60	99.36	109.78
1	I1	205	ILE	N-CA-C	-6.59	99.36	109.78
1	C3	205	ILE	N-CA-C	-6.59	99.36	109.78
1	Q3	205	ILE	N-CA-C	-6.59	99.36	109.78
1	I4	205	ILE	N-CA-C	-6.59	99.36	109.78
1	X4	205	ILE	N-CA-C	-6.59	99.36	109.78
1	f4	205	ILE	N-CA-C	-6.59	99.36	109.78
1	Y6	205	ILE	N-CA-C	-6.59	99.36	109.78
1	g6	205	ILE	N-CA-C	-6.59	99.36	109.78
1	g7	205	ILE	N-CA-C	-6.59	99.36	109.78
1	C8	205	ILE	N-CA-C	-6.59	99.36	109.78
1	I8	205	ILE	N-CA-C	-6.59	99.36	109.78
1	Y8	205	ILE	N-CA-C	-6.59	99.36	109.78
1	AE	205	ILE	N-CA-C	-6.59	99.36	109.78
1	KE	205	ILE	N-CA-C	-6.59	99.36	109.78
1	SE	205	ILE	N-CA-C	-6.59	99.36	109.78
1	aE	205	ILE	N-CA-C	-6.59	99.36	109.78
1	IG	205	ILE	N-CA-C	-6.59	99.36	109.78
1	YG	205	ILE	N-CA-C	-6.59	99.36	109.78
1	IQ	205	ILE	N-CA-C	-6.59	99.36	109.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CR	205	ILE	N-CA-C	-6.59	99.36	109.78
1	C1	205	ILE	N-CA-C	-6.57	99.40	109.78
1	I3	205	ILE	N-CA-C	-6.57	99.40	109.78
1	C4	205	ILE	N-CA-C	-6.57	99.40	109.78
1	Q4	205	ILE	N-CA-C	-6.57	99.40	109.78
1	C6	205	ILE	N-CA-C	-6.57	99.40	109.78
1	Y7	205	ILE	N-CA-C	-6.57	99.40	109.78
1	Q8	205	ILE	N-CA-C	-6.57	99.40	109.78
1	g8	205	ILE	N-CA-C	-6.57	99.40	109.78
1	QG	205	ILE	N-CA-C	-6.57	99.40	109.78
1	IR	205	ILE	N-CA-C	-6.57	99.40	109.78
1	K6	264	ILE	N-CA-C	6.34	118.36	111.77
1	S6	264	ILE	N-CA-C	6.34	118.36	111.77
1	K7	264	ILE	N-CA-C	6.34	118.36	111.77
1	S7	264	ILE	N-CA-C	6.34	118.36	111.77
1	BL	264	ILE	N-CA-C	6.34	118.36	111.77
1	aL	264	ILE	N-CA-C	6.34	118.36	111.77
1	BQ	264	ILE	N-CA-C	6.34	118.36	111.77
1	SR	264	ILE	N-CA-C	6.34	118.36	111.77
1	aR	264	ILE	N-CA-C	6.34	118.36	111.77
1	iR	264	ILE	N-CA-C	6.34	118.36	111.77
1	S1	264	ILE	N-CA-C	6.33	118.36	111.77
1	Z1	264	ILE	N-CA-C	6.33	118.36	111.77
1	h1	264	ILE	N-CA-C	6.33	118.36	111.77
1	B7	264	ILE	N-CA-C	6.33	118.36	111.77
1	BG	264	ILE	N-CA-C	6.33	118.36	111.77
1	iG	264	ILE	N-CA-C	6.33	118.36	111.77
1	KL	264	ILE	N-CA-C	6.33	118.36	111.77
1	SL	264	ILE	N-CA-C	6.33	118.36	111.77
1	SQ	264	ILE	N-CA-C	6.33	118.36	111.77
1	dQ	264	ILE	N-CA-C	6.33	118.36	111.77
1	B1	264	ILE	N-CA-C	6.33	118.35	111.77
1	K3	264	ILE	N-CA-C	6.33	118.35	111.77
1	B4	264	ILE	N-CA-C	6.33	118.35	111.77
1	S4	264	ILE	N-CA-C	6.33	118.35	111.77
1	B6	264	ILE	N-CA-C	6.33	118.35	111.77
1	a7	264	ILE	N-CA-C	6.33	118.35	111.77
1	S8	264	ILE	N-CA-C	6.33	118.35	111.77
1	i8	264	ILE	N-CA-C	6.33	118.35	111.77
1	SG	264	ILE	N-CA-C	6.33	118.35	111.77
1	KR	264	ILE	N-CA-C	6.33	118.35	111.77
1	K1	264	ILE	N-CA-C	6.31	118.33	111.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	M1	43	VAL	CB-CA-C	-6.31	103.62	112.14
1	S3	264	ILE	N-CA-C	6.31	118.33	111.77
2	U3	43	VAL	CB-CA-C	-6.31	103.62	112.14
2	c3	43	VAL	CB-CA-C	-6.31	103.62	112.14
1	Z4	264	ILE	N-CA-C	6.31	118.33	111.77
2	b4	43	VAL	CB-CA-C	-6.31	103.62	112.14
1	a6	264	ILE	N-CA-C	6.31	118.33	111.77
2	c6	43	VAL	CB-CA-C	-6.31	103.62	112.14
1	i7	264	ILE	N-CA-C	6.31	118.33	111.77
2	k7	43	VAL	CB-CA-C	-6.31	103.62	112.14
1	B8	264	ILE	N-CA-C	6.31	118.33	111.77
2	E8	43	VAL	CB-CA-C	-6.31	103.62	112.14
1	CE	264	ILE	N-CA-C	6.31	118.33	111.77
1	UE	264	ILE	N-CA-C	6.31	118.33	111.77
2	WE	43	VAL	CB-CA-C	-6.31	103.62	112.14
1	aG	264	ILE	N-CA-C	6.31	118.33	111.77
2	cG	43	VAL	CB-CA-C	-6.31	103.62	112.14
1	BR	264	ILE	N-CA-C	6.31	118.33	111.77
2	ER	43	VAL	CB-CA-C	-6.31	103.62	112.14
1	B3	264	ILE	N-CA-C	6.30	118.32	111.77
1	K4	264	ILE	N-CA-C	6.30	118.32	111.77
1	h4	264	ILE	N-CA-C	6.30	118.32	111.77
1	i6	264	ILE	N-CA-C	6.30	118.32	111.77
1	K8	264	ILE	N-CA-C	6.30	118.32	111.77
1	a8	264	ILE	N-CA-C	6.30	118.32	111.77
1	ME	264	ILE	N-CA-C	6.30	118.32	111.77
1	cE	264	ILE	N-CA-C	6.30	118.32	111.77
1	KG	264	ILE	N-CA-C	6.30	118.32	111.77
1	KQ	264	ILE	N-CA-C	6.30	118.32	111.77
2	M6	43	VAL	CB-CA-C	-6.29	103.65	112.14
2	U6	43	VAL	CB-CA-C	-6.29	103.65	112.14
2	M7	43	VAL	CB-CA-C	-6.29	103.65	112.14
2	U7	43	VAL	CB-CA-C	-6.29	103.65	112.14
2	EL	43	VAL	CB-CA-C	-6.29	103.65	112.14
2	cL	43	VAL	CB-CA-C	-6.29	103.65	112.14
2	hL	43	VAL	CB-CA-C	-6.29	103.65	112.14
2	EQ	43	VAL	CB-CA-C	-6.29	103.65	112.14
2	UR	43	VAL	CB-CA-C	-6.29	103.65	112.14
2	cR	43	VAL	CB-CA-C	-6.29	103.65	112.14
2	E1	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	M3	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	E4	43	VAL	CB-CA-C	-6.28	103.66	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E6	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	c7	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	U8	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	k8	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	EE	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	UG	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	MR	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	E3	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	Z3	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	M4	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	k6	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	M8	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	c8	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	OE	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	eE	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	MG	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	MQ	43	VAL	CB-CA-C	-6.28	103.66	112.14
2	b1	43	VAL	CB-CA-C	-6.26	103.69	112.14
2	j1	43	VAL	CB-CA-C	-6.26	103.69	112.14
2	E7	43	VAL	CB-CA-C	-6.26	103.69	112.14
2	EG	43	VAL	CB-CA-C	-6.26	103.69	112.14
2	kG	43	VAL	CB-CA-C	-6.26	103.69	112.14
2	ML	43	VAL	CB-CA-C	-6.26	103.69	112.14
2	UL	43	VAL	CB-CA-C	-6.26	103.69	112.14
2	UQ	43	VAL	CB-CA-C	-6.26	103.69	112.14
2	ZQ	43	VAL	CB-CA-C	-6.26	103.69	112.14
2	fQ	43	VAL	CB-CA-C	-6.26	103.69	112.14
1	J6	61	THR	CA-C-N	6.26	129.18	120.29
1	J6	61	THR	C-N-CA	6.26	129.18	120.29
1	R6	61	THR	CA-C-N	6.26	129.18	120.29
1	R6	61	THR	C-N-CA	6.26	129.18	120.29
1	J7	61	THR	CA-C-N	6.26	129.18	120.29
1	J7	61	THR	C-N-CA	6.26	129.18	120.29
1	R7	61	THR	CA-C-N	6.26	129.18	120.29
1	R7	61	THR	C-N-CA	6.26	129.18	120.29
1	AL	61	THR	CA-C-N	6.26	129.18	120.29
1	AL	61	THR	C-N-CA	6.26	129.18	120.29
1	ZL	61	THR	CA-C-N	6.26	129.18	120.29
1	ZL	61	THR	C-N-CA	6.26	129.18	120.29
1	AQ	61	THR	CA-C-N	6.26	129.18	120.29
1	AQ	61	THR	C-N-CA	6.26	129.18	120.29
1	RR	61	THR	CA-C-N	6.26	129.18	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	RR	61	THR	C-N-CA	6.26	129.18	120.29
1	ZR	61	THR	CA-C-N	6.26	129.18	120.29
1	ZR	61	THR	C-N-CA	6.26	129.18	120.29
1	hR	61	THR	CA-C-N	6.26	129.18	120.29
1	hR	61	THR	C-N-CA	6.26	129.18	120.29
1	R1	61	THR	CA-C-N	6.24	129.16	120.29
1	R1	61	THR	C-N-CA	6.24	129.16	120.29
1	Y1	61	THR	CA-C-N	6.24	129.16	120.29
1	Y1	61	THR	C-N-CA	6.24	129.16	120.29
1	g1	61	THR	CA-C-N	6.24	129.16	120.29
1	g1	61	THR	C-N-CA	6.24	129.16	120.29
1	A7	61	THR	CA-C-N	6.24	129.16	120.29
1	A7	61	THR	C-N-CA	6.24	129.16	120.29
1	AG	61	THR	CA-C-N	6.24	129.16	120.29
1	AG	61	THR	C-N-CA	6.24	129.16	120.29
1	hG	61	THR	CA-C-N	6.24	129.16	120.29
1	hG	61	THR	C-N-CA	6.24	129.16	120.29
1	JL	61	THR	CA-C-N	6.24	129.16	120.29
1	JL	61	THR	C-N-CA	6.24	129.16	120.29
1	RL	61	THR	CA-C-N	6.24	129.16	120.29
1	RL	61	THR	C-N-CA	6.24	129.16	120.29
1	RQ	61	THR	CA-C-N	6.24	129.16	120.29
1	RQ	61	THR	C-N-CA	6.24	129.16	120.29
1	cQ	61	THR	CA-C-N	6.24	129.16	120.29
1	cQ	61	THR	C-N-CA	6.24	129.16	120.29
1	J1	61	THR	CA-C-N	6.24	129.15	120.29
1	J1	61	THR	C-N-CA	6.24	129.15	120.29
1	R3	61	THR	CA-C-N	6.24	129.15	120.29
1	R3	61	THR	C-N-CA	6.24	129.15	120.29
1	Y4	61	THR	CA-C-N	6.24	129.15	120.29
1	Y4	61	THR	C-N-CA	6.24	129.15	120.29
1	Z6	61	THR	CA-C-N	6.24	129.15	120.29
1	Z6	61	THR	C-N-CA	6.24	129.15	120.29
1	h7	61	THR	CA-C-N	6.24	129.15	120.29
1	h7	61	THR	C-N-CA	6.24	129.15	120.29
1	A8	61	THR	CA-C-N	6.24	129.15	120.29
1	A8	61	THR	C-N-CA	6.24	129.15	120.29
1	BE	61	THR	CA-C-N	6.24	129.15	120.29
1	BE	61	THR	C-N-CA	6.24	129.15	120.29
1	TE	61	THR	CA-C-N	6.24	129.15	120.29
1	TE	61	THR	C-N-CA	6.24	129.15	120.29
1	ZG	61	THR	CA-C-N	6.24	129.15	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ZG	61	THR	C-N-CA	6.24	129.15	120.29
1	AR	61	THR	CA-C-N	6.24	129.15	120.29
1	AR	61	THR	C-N-CA	6.24	129.15	120.29
1	A3	61	THR	CA-C-N	6.22	129.13	120.29
1	A3	61	THR	C-N-CA	6.22	129.13	120.29
1	J4	61	THR	CA-C-N	6.22	129.13	120.29
1	J4	61	THR	C-N-CA	6.22	129.13	120.29
1	g4	61	THR	CA-C-N	6.22	129.13	120.29
1	g4	61	THR	C-N-CA	6.22	129.13	120.29
1	h6	61	THR	CA-C-N	6.22	129.13	120.29
1	h6	61	THR	C-N-CA	6.22	129.13	120.29
1	J8	61	THR	CA-C-N	6.22	129.13	120.29
1	J8	61	THR	C-N-CA	6.22	129.13	120.29
1	Z8	61	THR	CA-C-N	6.22	129.13	120.29
1	Z8	61	THR	C-N-CA	6.22	129.13	120.29
1	LE	61	THR	CA-C-N	6.22	129.13	120.29
1	LE	61	THR	C-N-CA	6.22	129.13	120.29
1	bE	61	THR	CA-C-N	6.22	129.13	120.29
1	bE	61	THR	C-N-CA	6.22	129.13	120.29
1	JG	61	THR	CA-C-N	6.22	129.13	120.29
1	JG	61	THR	C-N-CA	6.22	129.13	120.29
1	JQ	61	THR	CA-C-N	6.22	129.13	120.29
1	JQ	61	THR	C-N-CA	6.22	129.13	120.29
1	A1	61	THR	CA-C-N	6.22	129.12	120.29
1	A1	61	THR	C-N-CA	6.22	129.12	120.29
1	J3	61	THR	CA-C-N	6.22	129.12	120.29
1	J3	61	THR	C-N-CA	6.22	129.12	120.29
1	A4	61	THR	CA-C-N	6.22	129.12	120.29
1	A4	61	THR	C-N-CA	6.22	129.12	120.29
1	R4	61	THR	CA-C-N	6.22	129.12	120.29
1	R4	61	THR	C-N-CA	6.22	129.12	120.29
1	A6	61	THR	CA-C-N	6.22	129.12	120.29
1	A6	61	THR	C-N-CA	6.22	129.12	120.29
1	Z7	61	THR	CA-C-N	6.22	129.12	120.29
1	Z7	61	THR	C-N-CA	6.22	129.12	120.29
1	R8	61	THR	CA-C-N	6.22	129.12	120.29
1	R8	61	THR	C-N-CA	6.22	129.12	120.29
1	h8	61	THR	CA-C-N	6.22	129.12	120.29
1	h8	61	THR	C-N-CA	6.22	129.12	120.29
1	RG	61	THR	CA-C-N	6.22	129.12	120.29
1	RG	61	THR	C-N-CA	6.22	129.12	120.29
1	JR	61	THR	CA-C-N	6.22	129.12	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	JR	61	THR	C-N-CA	6.22	129.12	120.29
2	M6	43	VAL	CA-C-N	6.15	133.28	121.54
2	M6	43	VAL	C-N-CA	6.15	133.28	121.54
2	U6	43	VAL	CA-C-N	6.15	133.28	121.54
2	U6	43	VAL	C-N-CA	6.15	133.28	121.54
2	M7	43	VAL	CA-C-N	6.15	133.28	121.54
2	M7	43	VAL	C-N-CA	6.15	133.28	121.54
2	U7	43	VAL	CA-C-N	6.15	133.28	121.54
2	U7	43	VAL	C-N-CA	6.15	133.28	121.54
2	EL	43	VAL	CA-C-N	6.15	133.28	121.54
2	EL	43	VAL	C-N-CA	6.15	133.28	121.54
2	cL	43	VAL	CA-C-N	6.15	133.28	121.54
2	cL	43	VAL	C-N-CA	6.15	133.28	121.54
2	hL	43	VAL	CA-C-N	6.15	133.28	121.54
2	hL	43	VAL	C-N-CA	6.15	133.28	121.54
2	EQ	43	VAL	CA-C-N	6.15	133.28	121.54
2	EQ	43	VAL	C-N-CA	6.15	133.28	121.54
2	UR	43	VAL	CA-C-N	6.15	133.28	121.54
2	UR	43	VAL	C-N-CA	6.15	133.28	121.54
2	cR	43	VAL	CA-C-N	6.15	133.28	121.54
2	cR	43	VAL	C-N-CA	6.15	133.28	121.54
2	E1	43	VAL	CA-C-N	6.14	133.27	121.54
2	E1	43	VAL	C-N-CA	6.14	133.27	121.54
2	b1	43	VAL	CA-C-N	6.14	133.27	121.54
2	b1	43	VAL	C-N-CA	6.14	133.27	121.54
2	j1	43	VAL	CA-C-N	6.14	133.27	121.54
2	j1	43	VAL	C-N-CA	6.14	133.27	121.54
2	M3	43	VAL	CA-C-N	6.14	133.27	121.54
2	M3	43	VAL	C-N-CA	6.14	133.27	121.54
2	E4	43	VAL	CA-C-N	6.14	133.27	121.54
2	E4	43	VAL	C-N-CA	6.14	133.27	121.54
2	E6	43	VAL	CA-C-N	6.14	133.27	121.54
2	E6	43	VAL	C-N-CA	6.14	133.27	121.54
2	E7	43	VAL	CA-C-N	6.14	133.27	121.54
2	E7	43	VAL	C-N-CA	6.14	133.27	121.54
2	c7	43	VAL	CA-C-N	6.14	133.27	121.54
2	c7	43	VAL	C-N-CA	6.14	133.27	121.54
2	U8	43	VAL	CA-C-N	6.14	133.27	121.54
2	U8	43	VAL	C-N-CA	6.14	133.27	121.54
2	k8	43	VAL	CA-C-N	6.14	133.27	121.54
2	k8	43	VAL	C-N-CA	6.14	133.27	121.54
2	EE	43	VAL	CA-C-N	6.14	133.27	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	EE	43	VAL	C-N-CA	6.14	133.27	121.54
2	EG	43	VAL	CA-C-N	6.14	133.27	121.54
2	EG	43	VAL	C-N-CA	6.14	133.27	121.54
2	UG	43	VAL	CA-C-N	6.14	133.27	121.54
2	UG	43	VAL	C-N-CA	6.14	133.27	121.54
2	kG	43	VAL	CA-C-N	6.14	133.27	121.54
2	kG	43	VAL	C-N-CA	6.14	133.27	121.54
2	ML	43	VAL	CA-C-N	6.14	133.27	121.54
2	ML	43	VAL	C-N-CA	6.14	133.27	121.54
2	UL	43	VAL	CA-C-N	6.14	133.27	121.54
2	UL	43	VAL	C-N-CA	6.14	133.27	121.54
2	UQ	43	VAL	CA-C-N	6.14	133.27	121.54
2	UQ	43	VAL	C-N-CA	6.14	133.27	121.54
2	ZQ	43	VAL	CA-C-N	6.14	133.27	121.54
2	ZQ	43	VAL	C-N-CA	6.14	133.27	121.54
2	fQ	43	VAL	CA-C-N	6.14	133.27	121.54
2	fQ	43	VAL	C-N-CA	6.14	133.27	121.54
2	MR	43	VAL	CA-C-N	6.14	133.27	121.54
2	MR	43	VAL	C-N-CA	6.14	133.27	121.54
2	E3	43	VAL	CA-C-N	6.14	133.27	121.54
2	E3	43	VAL	C-N-CA	6.14	133.27	121.54
2	Z3	43	VAL	CA-C-N	6.14	133.27	121.54
2	Z3	43	VAL	C-N-CA	6.14	133.27	121.54
2	M4	43	VAL	CA-C-N	6.14	133.27	121.54
2	M4	43	VAL	C-N-CA	6.14	133.27	121.54
2	k6	43	VAL	CA-C-N	6.14	133.27	121.54
2	k6	43	VAL	C-N-CA	6.14	133.27	121.54
2	M8	43	VAL	CA-C-N	6.14	133.27	121.54
2	M8	43	VAL	C-N-CA	6.14	133.27	121.54
2	c8	43	VAL	CA-C-N	6.14	133.27	121.54
2	c8	43	VAL	C-N-CA	6.14	133.27	121.54
2	OE	43	VAL	CA-C-N	6.14	133.27	121.54
2	OE	43	VAL	C-N-CA	6.14	133.27	121.54
2	eE	43	VAL	CA-C-N	6.14	133.27	121.54
2	eE	43	VAL	C-N-CA	6.14	133.27	121.54
2	MG	43	VAL	CA-C-N	6.14	133.27	121.54
2	MG	43	VAL	C-N-CA	6.14	133.27	121.54
2	MQ	43	VAL	CA-C-N	6.14	133.27	121.54
2	MQ	43	VAL	C-N-CA	6.14	133.27	121.54
2	M1	43	VAL	CA-C-N	6.14	133.26	121.54
2	M1	43	VAL	C-N-CA	6.14	133.26	121.54
2	U3	43	VAL	CA-C-N	6.14	133.26	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	U3	43	VAL	C-N-CA	6.14	133.26	121.54
2	c3	43	VAL	CA-C-N	6.14	133.26	121.54
2	c3	43	VAL	C-N-CA	6.14	133.26	121.54
2	b4	43	VAL	CA-C-N	6.14	133.26	121.54
2	b4	43	VAL	C-N-CA	6.14	133.26	121.54
2	c6	43	VAL	CA-C-N	6.14	133.26	121.54
2	c6	43	VAL	C-N-CA	6.14	133.26	121.54
2	k7	43	VAL	CA-C-N	6.14	133.26	121.54
2	k7	43	VAL	C-N-CA	6.14	133.26	121.54
2	E8	43	VAL	CA-C-N	6.14	133.26	121.54
2	E8	43	VAL	C-N-CA	6.14	133.26	121.54
2	WE	43	VAL	CA-C-N	6.14	133.26	121.54
2	WE	43	VAL	C-N-CA	6.14	133.26	121.54
2	cG	43	VAL	CA-C-N	6.14	133.26	121.54
2	cG	43	VAL	C-N-CA	6.14	133.26	121.54
2	ER	43	VAL	CA-C-N	6.14	133.26	121.54
2	ER	43	VAL	C-N-CA	6.14	133.26	121.54
2	E1	41	TYR	N-CA-C	6.02	119.73	111.54
2	M3	41	TYR	N-CA-C	6.02	119.73	111.54
2	E4	41	TYR	N-CA-C	6.02	119.73	111.54
2	E6	41	TYR	N-CA-C	6.02	119.73	111.54
2	c7	41	TYR	N-CA-C	6.02	119.73	111.54
2	U8	41	TYR	N-CA-C	6.02	119.73	111.54
2	k8	41	TYR	N-CA-C	6.02	119.73	111.54
2	EE	41	TYR	N-CA-C	6.02	119.73	111.54
2	UG	41	TYR	N-CA-C	6.02	119.73	111.54
2	MR	41	TYR	N-CA-C	6.02	119.73	111.54
2	b1	41	TYR	N-CA-C	6.01	119.71	111.54
2	j1	41	TYR	N-CA-C	6.01	119.71	111.54
2	E7	41	TYR	N-CA-C	6.01	119.71	111.54
2	EG	41	TYR	N-CA-C	6.01	119.71	111.54
2	kG	41	TYR	N-CA-C	6.01	119.71	111.54
2	ML	41	TYR	N-CA-C	6.01	119.71	111.54
2	UL	41	TYR	N-CA-C	6.01	119.71	111.54
2	UQ	41	TYR	N-CA-C	6.01	119.71	111.54
2	ZQ	41	TYR	N-CA-C	6.01	119.71	111.54
2	fQ	41	TYR	N-CA-C	6.01	119.71	111.54
2	E3	41	TYR	N-CA-C	5.99	119.69	111.54
2	Z3	41	TYR	N-CA-C	5.99	119.69	111.54
2	M4	41	TYR	N-CA-C	5.99	119.69	111.54
2	k6	41	TYR	N-CA-C	5.99	119.69	111.54
2	M8	41	TYR	N-CA-C	5.99	119.69	111.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	c8	41	TYR	N-CA-C	5.99	119.69	111.54
2	OE	41	TYR	N-CA-C	5.99	119.69	111.54
2	eE	41	TYR	N-CA-C	5.99	119.69	111.54
2	MG	41	TYR	N-CA-C	5.99	119.69	111.54
2	MQ	41	TYR	N-CA-C	5.99	119.69	111.54
2	M1	41	TYR	N-CA-C	5.98	119.68	111.54
2	U3	41	TYR	N-CA-C	5.98	119.68	111.54
2	c3	41	TYR	N-CA-C	5.98	119.68	111.54
2	b4	41	TYR	N-CA-C	5.98	119.68	111.54
2	c6	41	TYR	N-CA-C	5.98	119.68	111.54
2	k7	41	TYR	N-CA-C	5.98	119.68	111.54
2	E8	41	TYR	N-CA-C	5.98	119.68	111.54
2	WE	41	TYR	N-CA-C	5.98	119.68	111.54
2	cG	41	TYR	N-CA-C	5.98	119.68	111.54
2	ER	41	TYR	N-CA-C	5.98	119.68	111.54
2	M6	41	TYR	N-CA-C	5.98	119.67	111.54
2	U6	41	TYR	N-CA-C	5.98	119.67	111.54
2	M7	41	TYR	N-CA-C	5.98	119.67	111.54
2	U7	41	TYR	N-CA-C	5.98	119.67	111.54
2	EL	41	TYR	N-CA-C	5.98	119.67	111.54
2	cL	41	TYR	N-CA-C	5.98	119.67	111.54
2	hL	41	TYR	N-CA-C	5.98	119.67	111.54
2	EQ	41	TYR	N-CA-C	5.98	119.67	111.54
2	UR	41	TYR	N-CA-C	5.98	119.67	111.54
2	cR	41	TYR	N-CA-C	5.98	119.67	111.54
1	AK	53	TYR	N-CA-C	5.85	115.73	108.19
1	IS	53	TYR	N-CA-C	5.83	115.72	108.19
1	Q1	324	LEU	N-CA-C	5.80	119.41	110.42
1	X1	324	LEU	N-CA-C	5.80	119.41	110.42
1	f1	324	LEU	N-CA-C	5.80	119.41	110.42
1	C7	324	LEU	N-CA-C	5.80	119.41	110.42
1	CG	324	LEU	N-CA-C	5.80	119.41	110.42
1	gG	324	LEU	N-CA-C	5.80	119.41	110.42
1	IL	324	LEU	N-CA-C	5.80	119.41	110.42
1	QL	324	LEU	N-CA-C	5.80	119.41	110.42
1	QQ	324	LEU	N-CA-C	5.80	119.41	110.42
1	bQ	324	LEU	N-CA-C	5.80	119.41	110.42
1	AP	53	TYR	N-CA-C	5.80	115.67	108.19
1	C3	324	LEU	N-CA-C	5.80	119.41	110.42
1	I4	324	LEU	N-CA-C	5.80	119.41	110.42
1	f4	324	LEU	N-CA-C	5.80	119.41	110.42
1	g6	324	LEU	N-CA-C	5.80	119.41	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I8	324	LEU	N-CA-C	5.80	119.41	110.42
1	Y8	324	LEU	N-CA-C	5.80	119.41	110.42
1	KE	324	LEU	N-CA-C	5.80	119.41	110.42
1	aE	324	LEU	N-CA-C	5.80	119.41	110.42
1	IG	324	LEU	N-CA-C	5.80	119.41	110.42
1	IQ	324	LEU	N-CA-C	5.80	119.41	110.42
1	AJ	53	TYR	N-CA-C	5.79	115.66	108.19
1	AD	53	TYR	N-CA-C	5.79	115.65	108.19
1	C1	324	LEU	N-CA-C	5.78	119.38	110.42
1	I3	324	LEU	N-CA-C	5.78	119.38	110.42
1	C4	324	LEU	N-CA-C	5.78	119.38	110.42
1	Q4	324	LEU	N-CA-C	5.78	119.38	110.42
1	C6	324	LEU	N-CA-C	5.78	119.38	110.42
1	Y7	324	LEU	N-CA-C	5.78	119.38	110.42
1	Q8	324	LEU	N-CA-C	5.78	119.38	110.42
1	g8	324	LEU	N-CA-C	5.78	119.38	110.42
1	QG	324	LEU	N-CA-C	5.78	119.38	110.42
1	IR	324	LEU	N-CA-C	5.78	119.38	110.42
1	AJ	58	ILE	N-CA-C	5.78	116.74	110.21
1	I6	324	LEU	N-CA-C	5.78	119.37	110.42
1	Q6	324	LEU	N-CA-C	5.78	119.37	110.42
1	I7	324	LEU	N-CA-C	5.78	119.37	110.42
1	Q7	324	LEU	N-CA-C	5.78	119.37	110.42
1	CL	324	LEU	N-CA-C	5.78	119.37	110.42
1	YL	324	LEU	N-CA-C	5.78	119.37	110.42
1	CQ	324	LEU	N-CA-C	5.78	119.37	110.42
1	QR	324	LEU	N-CA-C	5.78	119.37	110.42
1	YR	324	LEU	N-CA-C	5.78	119.37	110.42
1	gR	324	LEU	N-CA-C	5.78	119.37	110.42
1	I1	324	LEU	N-CA-C	5.77	119.36	110.42
1	Q3	324	LEU	N-CA-C	5.77	119.36	110.42
1	X4	324	LEU	N-CA-C	5.77	119.36	110.42
1	Y6	324	LEU	N-CA-C	5.77	119.36	110.42
1	g7	324	LEU	N-CA-C	5.77	119.36	110.42
1	C8	324	LEU	N-CA-C	5.77	119.36	110.42
1	AE	324	LEU	N-CA-C	5.77	119.36	110.42
1	SE	324	LEU	N-CA-C	5.77	119.36	110.42
1	YG	324	LEU	N-CA-C	5.77	119.36	110.42
1	CR	324	LEU	N-CA-C	5.77	119.36	110.42
1	AP	58	ILE	N-CA-C	5.76	116.72	110.21
1	IS	58	ILE	N-CA-C	5.76	116.72	110.21
1	AD	58	ILE	N-CA-C	5.74	116.70	110.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	T1	325	LYS	N-CA-C	5.74	117.53	111.28
1	a1	325	LYS	N-CA-C	5.74	117.53	111.28
1	i1	325	LYS	N-CA-C	5.74	117.53	111.28
1	D7	325	LYS	N-CA-C	5.74	117.53	111.28
1	DG	325	LYS	N-CA-C	5.74	117.53	111.28
1	jG	325	LYS	N-CA-C	5.74	117.53	111.28
1	LL	325	LYS	N-CA-C	5.74	117.53	111.28
1	TL	325	LYS	N-CA-C	5.74	117.53	111.28
1	TQ	325	LYS	N-CA-C	5.74	117.53	111.28
1	YQ	325	LYS	N-CA-C	5.74	117.53	111.28
1	eQ	325	LYS	N-CA-C	5.74	117.53	111.28
1	D1	325	LYS	N-CA-C	5.73	117.52	111.28
1	L3	325	LYS	N-CA-C	5.73	117.52	111.28
1	D4	325	LYS	N-CA-C	5.73	117.52	111.28
1	T4	325	LYS	N-CA-C	5.73	117.52	111.28
1	D6	325	LYS	N-CA-C	5.73	117.52	111.28
1	b7	325	LYS	N-CA-C	5.73	117.52	111.28
1	T8	325	LYS	N-CA-C	5.73	117.52	111.28
1	j8	325	LYS	N-CA-C	5.73	117.52	111.28
1	DE	325	LYS	N-CA-C	5.73	117.52	111.28
1	TG	325	LYS	N-CA-C	5.73	117.52	111.28
1	LR	325	LYS	N-CA-C	5.73	117.52	111.28
1	AK	58	ILE	N-CA-C	5.72	116.67	110.21
3	A5	308	THR	CA-C-N	5.71	132.45	121.54
3	A5	308	THR	C-N-CA	5.71	132.45	121.54
3	AC	308	THR	CA-C-N	5.70	132.43	121.54
3	AC	308	THR	C-N-CA	5.70	132.43	121.54
3	A2	308	THR	CA-C-N	5.70	132.43	121.54
3	A2	308	THR	C-N-CA	5.70	132.43	121.54
1	L6	325	LYS	N-CA-C	5.70	117.49	111.28
1	T6	325	LYS	N-CA-C	5.70	117.49	111.28
1	L7	325	LYS	N-CA-C	5.70	117.49	111.28
1	T7	325	LYS	N-CA-C	5.70	117.49	111.28
1	DL	325	LYS	N-CA-C	5.70	117.49	111.28
1	bL	325	LYS	N-CA-C	5.70	117.49	111.28
1	gL	325	LYS	N-CA-C	5.70	117.49	111.28
1	DQ	325	LYS	N-CA-C	5.70	117.49	111.28
1	TR	325	LYS	N-CA-C	5.70	117.49	111.28
1	bR	325	LYS	N-CA-C	5.70	117.49	111.28
1	jR	325	LYS	N-CA-C	5.70	117.49	111.28
3	AN	308	THR	CA-C-N	5.70	132.42	121.54
3	AN	308	THR	C-N-CA	5.70	132.42	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L1	325	LYS	N-CA-C	5.69	117.48	111.28
1	T3	325	LYS	N-CA-C	5.69	117.48	111.28
1	b3	325	LYS	N-CA-C	5.69	117.48	111.28
1	a4	325	LYS	N-CA-C	5.69	117.48	111.28
1	b6	325	LYS	N-CA-C	5.69	117.48	111.28
1	j7	325	LYS	N-CA-C	5.69	117.48	111.28
1	D8	325	LYS	N-CA-C	5.69	117.48	111.28
1	FE	325	LYS	N-CA-C	5.69	117.48	111.28
1	VE	325	LYS	N-CA-C	5.69	117.48	111.28
1	bG	325	LYS	N-CA-C	5.69	117.48	111.28
1	DR	325	LYS	N-CA-C	5.69	117.48	111.28
3	AA	308	THR	CA-C-N	5.69	132.40	121.54
3	AA	308	THR	C-N-CA	5.69	132.40	121.54
3	AF	308	THR	CA-C-N	5.69	132.40	121.54
3	AF	308	THR	C-N-CA	5.69	132.40	121.54
1	D3	325	LYS	N-CA-C	5.68	117.48	111.28
1	Y3	325	LYS	N-CA-C	5.68	117.48	111.28
1	L4	325	LYS	N-CA-C	5.68	117.48	111.28
1	i4	325	LYS	N-CA-C	5.68	117.48	111.28
1	j6	325	LYS	N-CA-C	5.68	117.48	111.28
1	L8	325	LYS	N-CA-C	5.68	117.48	111.28
1	b8	325	LYS	N-CA-C	5.68	117.48	111.28
1	NE	325	LYS	N-CA-C	5.68	117.48	111.28
1	dE	325	LYS	N-CA-C	5.68	117.48	111.28
1	LG	325	LYS	N-CA-C	5.68	117.48	111.28
1	LQ	325	LYS	N-CA-C	5.68	117.48	111.28
1	I1	326	GLU	N-CA-CB	-5.68	101.47	110.28
1	Q3	326	GLU	N-CA-CB	-5.68	101.47	110.28
1	X4	326	GLU	N-CA-CB	-5.68	101.47	110.28
1	Y6	326	GLU	N-CA-CB	-5.68	101.47	110.28
1	g7	326	GLU	N-CA-CB	-5.68	101.47	110.28
1	C8	326	GLU	N-CA-CB	-5.68	101.47	110.28
3	A9	308	THR	CA-C-N	5.68	132.39	121.54
3	A9	308	THR	C-N-CA	5.68	132.39	121.54
1	AE	326	GLU	N-CA-CB	-5.68	101.47	110.28
1	SE	326	GLU	N-CA-CB	-5.68	101.47	110.28
1	YG	326	GLU	N-CA-CB	-5.68	101.47	110.28
3	AI	308	THR	CA-C-N	5.68	132.39	121.54
3	AI	308	THR	C-N-CA	5.68	132.39	121.54
1	CR	326	GLU	N-CA-CB	-5.68	101.47	110.28
3	AB	308	THR	CA-C-N	5.68	132.39	121.54
3	AB	308	THR	C-N-CA	5.68	132.39	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AM	308	THR	CA-C-N	5.68	132.39	121.54
3	AM	308	THR	C-N-CA	5.68	132.39	121.54
3	AH	308	THR	CA-C-N	5.67	132.37	121.54
3	AH	308	THR	C-N-CA	5.67	132.37	121.54
1	J1	63	LEU	N-CA-C	5.67	119.06	111.24
1	R3	63	LEU	N-CA-C	5.67	119.06	111.24
1	Y4	63	LEU	N-CA-C	5.67	119.06	111.24
1	Z6	63	LEU	N-CA-C	5.67	119.06	111.24
1	h7	63	LEU	N-CA-C	5.67	119.06	111.24
1	A8	63	LEU	N-CA-C	5.67	119.06	111.24
1	BE	63	LEU	N-CA-C	5.67	119.06	111.24
1	TE	63	LEU	N-CA-C	5.67	119.06	111.24
1	ZG	63	LEU	N-CA-C	5.67	119.06	111.24
1	AR	63	LEU	N-CA-C	5.67	119.06	111.24
1	I6	326	GLU	N-CA-CB	-5.66	101.50	110.28
1	Q6	326	GLU	N-CA-CB	-5.66	101.50	110.28
1	I7	326	GLU	N-CA-CB	-5.66	101.50	110.28
1	Q7	326	GLU	N-CA-CB	-5.66	101.50	110.28
1	CL	326	GLU	N-CA-CB	-5.66	101.50	110.28
1	YL	326	GLU	N-CA-CB	-5.66	101.50	110.28
1	CQ	326	GLU	N-CA-CB	-5.66	101.50	110.28
1	QR	326	GLU	N-CA-CB	-5.66	101.50	110.28
1	YR	326	GLU	N-CA-CB	-5.66	101.50	110.28
1	gR	326	GLU	N-CA-CB	-5.66	101.50	110.28
1	Q1	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	X1	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	f1	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	C3	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	I4	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	f4	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	g6	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	C7	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	I8	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	Y8	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	KE	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	aE	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	CG	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	IG	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	gG	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	IL	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	QL	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	IQ	326	GLU	N-CA-CB	-5.66	101.51	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	QQ	326	GLU	N-CA-CB	-5.66	101.51	110.28
1	bQ	326	GLU	N-CA-CB	-5.66	101.51	110.28
3	AO	308	THR	CA-C-N	5.66	132.34	121.54
3	AO	308	THR	C-N-CA	5.66	132.34	121.54
1	A3	63	LEU	N-CA-C	5.65	119.04	111.24
1	J4	63	LEU	N-CA-C	5.65	119.04	111.24
1	g4	63	LEU	N-CA-C	5.65	119.04	111.24
1	h6	63	LEU	N-CA-C	5.65	119.04	111.24
1	J8	63	LEU	N-CA-C	5.65	119.04	111.24
1	Z8	63	LEU	N-CA-C	5.65	119.04	111.24
1	LE	63	LEU	N-CA-C	5.65	119.04	111.24
1	bE	63	LEU	N-CA-C	5.65	119.04	111.24
1	JG	63	LEU	N-CA-C	5.65	119.04	111.24
1	JQ	63	LEU	N-CA-C	5.65	119.04	111.24
5	DF	89	LYS	CA-C-N	5.64	132.32	121.54
5	DF	89	LYS	C-N-CA	5.64	132.32	121.54
1	C1	326	GLU	N-CA-CB	-5.64	101.54	110.28
1	I3	326	GLU	N-CA-CB	-5.64	101.54	110.28
1	C4	326	GLU	N-CA-CB	-5.64	101.54	110.28
1	Q4	326	GLU	N-CA-CB	-5.64	101.54	110.28
1	C6	326	GLU	N-CA-CB	-5.64	101.54	110.28
1	Y7	326	GLU	N-CA-CB	-5.64	101.54	110.28
1	Q8	326	GLU	N-CA-CB	-5.64	101.54	110.28
1	g8	326	GLU	N-CA-CB	-5.64	101.54	110.28
1	QG	326	GLU	N-CA-CB	-5.64	101.54	110.28
1	IR	326	GLU	N-CA-CB	-5.64	101.54	110.28
1	R1	63	LEU	N-CA-C	5.64	119.02	111.24
1	Y1	63	LEU	N-CA-C	5.64	119.02	111.24
1	g1	63	LEU	N-CA-C	5.64	119.02	111.24
1	A7	63	LEU	N-CA-C	5.64	119.02	111.24
1	AG	63	LEU	N-CA-C	5.64	119.02	111.24
1	hG	63	LEU	N-CA-C	5.64	119.02	111.24
5	DH	89	LYS	CA-C-N	5.64	132.31	121.54
5	DH	89	LYS	C-N-CA	5.64	132.31	121.54
1	JL	63	LEU	N-CA-C	5.64	119.02	111.24
1	RL	63	LEU	N-CA-C	5.64	119.02	111.24
5	DN	89	LYS	CA-C-N	5.64	132.31	121.54
5	DN	89	LYS	C-N-CA	5.64	132.31	121.54
1	RQ	63	LEU	N-CA-C	5.64	119.02	111.24
1	cQ	63	LEU	N-CA-C	5.64	119.02	111.24
5	DA	89	LYS	CA-C-N	5.63	132.30	121.54
5	DA	89	LYS	C-N-CA	5.63	132.30	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J6	63	LEU	N-CA-C	5.63	119.01	111.24
1	R6	63	LEU	N-CA-C	5.63	119.01	111.24
1	J7	63	LEU	N-CA-C	5.63	119.01	111.24
1	R7	63	LEU	N-CA-C	5.63	119.01	111.24
5	DC	89	LYS	CA-C-N	5.63	132.29	121.54
5	DC	89	LYS	C-N-CA	5.63	132.29	121.54
1	AL	63	LEU	N-CA-C	5.63	119.01	111.24
1	ZL	63	LEU	N-CA-C	5.63	119.01	111.24
1	AQ	63	LEU	N-CA-C	5.63	119.01	111.24
1	RR	63	LEU	N-CA-C	5.63	119.01	111.24
1	ZR	63	LEU	N-CA-C	5.63	119.01	111.24
1	hR	63	LEU	N-CA-C	5.63	119.01	111.24
1	A1	63	LEU	N-CA-C	5.62	119.00	111.24
1	J3	63	LEU	N-CA-C	5.62	119.00	111.24
1	A4	63	LEU	N-CA-C	5.62	119.00	111.24
1	R4	63	LEU	N-CA-C	5.62	119.00	111.24
1	A6	63	LEU	N-CA-C	5.62	119.00	111.24
1	Z7	63	LEU	N-CA-C	5.62	119.00	111.24
1	R8	63	LEU	N-CA-C	5.62	119.00	111.24
1	h8	63	LEU	N-CA-C	5.62	119.00	111.24
1	RG	63	LEU	N-CA-C	5.62	119.00	111.24
1	JR	63	LEU	N-CA-C	5.62	119.00	111.24
5	DI	89	LYS	CA-C-N	5.62	132.27	121.54
5	DI	89	LYS	C-N-CA	5.62	132.27	121.54
5	D2	89	LYS	CA-C-N	5.61	132.26	121.54
5	D2	89	LYS	C-N-CA	5.61	132.26	121.54
5	D9	89	LYS	CA-C-N	5.61	132.26	121.54
5	D9	89	LYS	C-N-CA	5.61	132.26	121.54
5	DB	89	LYS	CA-C-N	5.61	132.25	121.54
5	DB	89	LYS	C-N-CA	5.61	132.25	121.54
5	DO	89	LYS	CA-C-N	5.61	132.25	121.54
5	DO	89	LYS	C-N-CA	5.61	132.25	121.54
5	D5	89	LYS	CA-C-N	5.60	132.24	121.54
5	D5	89	LYS	C-N-CA	5.60	132.24	121.54
5	DM	89	LYS	CA-C-N	5.60	132.23	121.54
5	DM	89	LYS	C-N-CA	5.60	132.23	121.54
3	A5	45	TYR	CA-CB-CG	5.57	123.93	113.90
3	AB	45	TYR	CA-CB-CG	5.55	123.90	113.90
3	AN	45	TYR	CA-CB-CG	5.55	123.89	113.90
3	A9	45	TYR	CA-CB-CG	5.55	123.88	113.90
3	A2	45	TYR	CA-CB-CG	5.54	123.88	113.90
3	AA	45	TYR	CA-CB-CG	5.54	123.88	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AC	45	TYR	CA-CB-CG	5.54	123.87	113.90
3	AM	45	TYR	CA-CB-CG	5.53	123.86	113.90
1	S1	326	GLU	N-CA-CB	-5.53	101.81	110.44
1	Z1	326	GLU	N-CA-CB	-5.53	101.81	110.44
1	h1	326	GLU	N-CA-CB	-5.53	101.81	110.44
1	B7	326	GLU	N-CA-CB	-5.53	101.81	110.44
1	BG	326	GLU	N-CA-CB	-5.53	101.81	110.44
1	iG	326	GLU	N-CA-CB	-5.53	101.81	110.44
1	KL	326	GLU	N-CA-CB	-5.53	101.81	110.44
1	SL	326	GLU	N-CA-CB	-5.53	101.81	110.44
1	SQ	326	GLU	N-CA-CB	-5.53	101.81	110.44
1	dQ	326	GLU	N-CA-CB	-5.53	101.81	110.44
1	B3	326	GLU	N-CA-CB	-5.52	101.82	110.44
1	K4	326	GLU	N-CA-CB	-5.52	101.82	110.44
1	h4	326	GLU	N-CA-CB	-5.52	101.82	110.44
1	i6	326	GLU	N-CA-CB	-5.52	101.82	110.44
1	K8	326	GLU	N-CA-CB	-5.52	101.82	110.44
1	a8	326	GLU	N-CA-CB	-5.52	101.82	110.44
1	ME	326	GLU	N-CA-CB	-5.52	101.82	110.44
1	cE	326	GLU	N-CA-CB	-5.52	101.82	110.44
1	KG	326	GLU	N-CA-CB	-5.52	101.82	110.44
1	KQ	326	GLU	N-CA-CB	-5.52	101.82	110.44
3	AH	45	TYR	CA-CB-CG	5.52	123.83	113.90
1	K1	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	S3	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	Z4	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	a6	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	i7	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	B8	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	CE	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	UE	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	aG	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	BR	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	B1	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	K3	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	B4	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	S4	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	B6	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	a7	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	S8	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	i8	326	GLU	N-CA-CB	-5.51	101.84	110.44
1	SG	326	GLU	N-CA-CB	-5.51	101.84	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	KR	326	GLU	N-CA-CB	-5.51	101.84	110.44
3	AF	45	TYR	CA-CB-CG	5.51	123.82	113.90
3	AI	45	TYR	CA-CB-CG	5.51	123.82	113.90
1	AD	44	THR	CA-C-O	-5.51	115.03	120.98
1	I1	205	ILE	CB-CA-C	-5.51	102.98	111.08
1	Q3	205	ILE	CB-CA-C	-5.51	102.98	111.08
1	X4	205	ILE	CB-CA-C	-5.51	102.98	111.08
1	Y6	205	ILE	CB-CA-C	-5.51	102.98	111.08
1	g7	205	ILE	CB-CA-C	-5.51	102.98	111.08
1	C8	205	ILE	CB-CA-C	-5.51	102.98	111.08
1	AE	205	ILE	CB-CA-C	-5.51	102.98	111.08
1	SE	205	ILE	CB-CA-C	-5.51	102.98	111.08
1	YG	205	ILE	CB-CA-C	-5.51	102.98	111.08
3	AO	45	TYR	CA-CB-CG	5.51	123.81	113.90
1	CR	205	ILE	CB-CA-C	-5.51	102.98	111.08
1	K6	326	GLU	N-CA-CB	-5.51	101.85	110.44
1	S6	326	GLU	N-CA-CB	-5.51	101.85	110.44
1	K7	326	GLU	N-CA-CB	-5.51	101.85	110.44
1	S7	326	GLU	N-CA-CB	-5.51	101.85	110.44
1	BL	326	GLU	N-CA-CB	-5.51	101.85	110.44
1	aL	326	GLU	N-CA-CB	-5.51	101.85	110.44
1	BQ	326	GLU	N-CA-CB	-5.51	101.85	110.44
1	SR	326	GLU	N-CA-CB	-5.51	101.85	110.44
1	aR	326	GLU	N-CA-CB	-5.51	101.85	110.44
1	iR	326	GLU	N-CA-CB	-5.51	101.85	110.44
1	Q1	205	ILE	CB-CA-C	-5.50	102.99	111.08
1	X1	205	ILE	CB-CA-C	-5.50	102.99	111.08
1	f1	205	ILE	CB-CA-C	-5.50	102.99	111.08
1	C7	205	ILE	CB-CA-C	-5.50	102.99	111.08
1	CG	205	ILE	CB-CA-C	-5.50	102.99	111.08
1	gG	205	ILE	CB-CA-C	-5.50	102.99	111.08
1	IL	205	ILE	CB-CA-C	-5.50	102.99	111.08
1	QL	205	ILE	CB-CA-C	-5.50	102.99	111.08
1	QQ	205	ILE	CB-CA-C	-5.50	102.99	111.08
1	bQ	205	ILE	CB-CA-C	-5.50	102.99	111.08
1	IS	44	THR	CA-C-O	-5.50	115.04	120.98
1	C3	205	ILE	CB-CA-C	-5.50	103.00	111.08
1	I4	205	ILE	CB-CA-C	-5.50	103.00	111.08
1	f4	205	ILE	CB-CA-C	-5.50	103.00	111.08
1	g6	205	ILE	CB-CA-C	-5.50	103.00	111.08
1	I8	205	ILE	CB-CA-C	-5.50	103.00	111.08
1	Y8	205	ILE	CB-CA-C	-5.50	103.00	111.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	KE	205	ILE	CB-CA-C	-5.50	103.00	111.08
1	aE	205	ILE	CB-CA-C	-5.50	103.00	111.08
1	IG	205	ILE	CB-CA-C	-5.50	103.00	111.08
1	IQ	205	ILE	CB-CA-C	-5.50	103.00	111.08
1	I6	205	ILE	CB-CA-C	-5.49	103.01	111.08
1	Q6	205	ILE	CB-CA-C	-5.49	103.01	111.08
1	I7	205	ILE	CB-CA-C	-5.49	103.01	111.08
1	Q7	205	ILE	CB-CA-C	-5.49	103.01	111.08
1	CL	205	ILE	CB-CA-C	-5.49	103.01	111.08
1	YL	205	ILE	CB-CA-C	-5.49	103.01	111.08
1	CQ	205	ILE	CB-CA-C	-5.49	103.01	111.08
1	QR	205	ILE	CB-CA-C	-5.49	103.01	111.08
1	YR	205	ILE	CB-CA-C	-5.49	103.01	111.08
1	gR	205	ILE	CB-CA-C	-5.49	103.01	111.08
1	C1	205	ILE	CB-CA-C	-5.48	103.02	111.08
1	I3	205	ILE	CB-CA-C	-5.48	103.02	111.08
1	C4	205	ILE	CB-CA-C	-5.48	103.02	111.08
1	Q4	205	ILE	CB-CA-C	-5.48	103.02	111.08
1	C6	205	ILE	CB-CA-C	-5.48	103.02	111.08
1	Y7	205	ILE	CB-CA-C	-5.48	103.02	111.08
1	Q8	205	ILE	CB-CA-C	-5.48	103.02	111.08
1	g8	205	ILE	CB-CA-C	-5.48	103.02	111.08
1	QG	205	ILE	CB-CA-C	-5.48	103.02	111.08
1	IR	205	ILE	CB-CA-C	-5.48	103.02	111.08
1	AP	44	THR	CA-C-O	-5.46	115.08	120.98
1	AJ	44	THR	CA-C-O	-5.46	115.08	120.98
1	CS	326	GLU	N-CA-C	5.46	117.99	111.71
1	AK	44	THR	CA-C-O	-5.46	115.09	120.98
1	DJ	326	GLU	N-CA-C	5.45	117.98	111.71
1	DP	326	GLU	N-CA-C	5.45	117.98	111.71
1	DD	326	GLU	N-CA-C	5.43	117.96	111.71
1	DK	326	GLU	N-CA-C	5.43	117.95	111.71
2	NK	44	GLN	CA-C-N	5.43	131.74	121.97
2	NK	44	GLN	C-N-CA	5.43	131.74	121.97
2	FP	45	ILE	CG1-CB-CG2	-5.42	94.46	110.70
2	ES	45	ILE	CG1-CB-CG2	-5.41	94.46	110.70
3	AB	153	ASP	CB-CA-C	-5.41	100.35	110.36
3	AF	153	ASP	CB-CA-C	-5.41	100.35	110.36
1	IS	55	PHE	N-CA-C	5.41	121.76	109.81
3	AA	153	ASP	CB-CA-C	-5.41	100.36	110.36
2	FJ	45	ILE	CG1-CB-CG2	-5.41	94.48	110.70
2	FD	45	ILE	CG1-CB-CG2	-5.41	94.48	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AK	55	PHE	N-CA-C	5.40	121.75	109.81
1	AP	55	PHE	N-CA-C	5.40	121.75	109.81
3	AO	153	ASP	CB-CA-C	-5.40	100.37	110.36
2	NP	44	GLN	CA-C-N	5.40	131.69	121.97
2	NP	44	GLN	C-N-CA	5.40	131.69	121.97
1	AD	55	PHE	N-CA-C	5.40	121.74	109.81
3	AI	264	ASP	CA-C-N	5.40	131.85	121.54
3	AI	264	ASP	C-N-CA	5.40	131.85	121.54
1	AJ	55	PHE	N-CA-C	5.40	121.73	109.81
2	FK	45	ILE	CG1-CB-CG2	-5.39	94.52	110.70
3	A5	153	ASP	CB-CA-C	-5.39	100.39	110.36
3	A9	153	ASP	CB-CA-C	-5.39	100.39	110.36
2	b1	44	GLN	N-CA-CB	5.39	119.59	110.49
2	j1	44	GLN	N-CA-CB	5.39	119.59	110.49
3	A2	153	ASP	CB-CA-C	-5.39	100.39	110.36
2	E7	44	GLN	N-CA-CB	5.39	119.59	110.49
2	EG	44	GLN	N-CA-CB	5.39	119.59	110.49
2	kG	44	GLN	N-CA-CB	5.39	119.59	110.49
2	ML	44	GLN	N-CA-CB	5.39	119.59	110.49
2	UL	44	GLN	N-CA-CB	5.39	119.59	110.49
2	UQ	44	GLN	N-CA-CB	5.39	119.59	110.49
2	ZQ	44	GLN	N-CA-CB	5.39	119.59	110.49
2	fQ	44	GLN	N-CA-CB	5.39	119.59	110.49
3	AM	153	ASP	CB-CA-C	-5.38	100.40	110.36
3	AH	264	ASP	CA-C-N	5.38	131.82	121.54
3	AH	264	ASP	C-N-CA	5.38	131.82	121.54
3	AC	153	ASP	CB-CA-C	-5.38	100.41	110.36
2	NJ	44	GLN	CA-C-N	5.38	131.65	121.97
2	NJ	44	GLN	C-N-CA	5.38	131.65	121.97
3	AH	153	ASP	CB-CA-C	-5.38	100.41	110.36
3	AN	153	ASP	CB-CA-C	-5.38	100.41	110.36
2	E1	44	GLN	N-CA-CB	5.37	119.57	110.49
2	M3	44	GLN	N-CA-CB	5.37	119.57	110.49
2	E4	44	GLN	N-CA-CB	5.37	119.57	110.49
3	A5	264	ASP	CA-C-N	5.37	131.80	121.54
3	A5	264	ASP	C-N-CA	5.37	131.80	121.54
2	E6	44	GLN	N-CA-CB	5.37	119.57	110.49
2	c7	44	GLN	N-CA-CB	5.37	119.57	110.49
2	U8	44	GLN	N-CA-CB	5.37	119.57	110.49
2	k8	44	GLN	N-CA-CB	5.37	119.57	110.49
2	EE	44	GLN	N-CA-CB	5.37	119.57	110.49
2	UG	44	GLN	N-CA-CB	5.37	119.57	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	MR	44	GLN	N-CA-CB	5.37	119.57	110.49
2	M1	44	GLN	N-CA-CB	5.37	119.57	110.49
2	U3	44	GLN	N-CA-CB	5.37	119.57	110.49
2	c3	44	GLN	N-CA-CB	5.37	119.57	110.49
2	b4	44	GLN	N-CA-CB	5.37	119.57	110.49
2	c6	44	GLN	N-CA-CB	5.37	119.57	110.49
2	k7	44	GLN	N-CA-CB	5.37	119.57	110.49
2	E8	44	GLN	N-CA-CB	5.37	119.57	110.49
2	WE	44	GLN	N-CA-CB	5.37	119.57	110.49
2	cG	44	GLN	N-CA-CB	5.37	119.57	110.49
2	ER	44	GLN	N-CA-CB	5.37	119.57	110.49
2	ND	44	GLN	CA-C-N	5.37	131.63	121.97
2	ND	44	GLN	C-N-CA	5.37	131.63	121.97
3	AF	264	ASP	CA-C-N	5.37	131.79	121.54
3	AF	264	ASP	C-N-CA	5.37	131.79	121.54
5	DM	38	TYR	CA-C-N	5.37	131.79	121.54
5	DM	38	TYR	C-N-CA	5.37	131.79	121.54
3	AO	264	ASP	CA-C-N	5.37	131.79	121.54
3	AO	264	ASP	C-N-CA	5.37	131.79	121.54
3	AI	153	ASP	CB-CA-C	-5.36	100.44	110.36
3	AM	264	ASP	CA-C-N	5.36	131.78	121.54
3	AM	264	ASP	C-N-CA	5.36	131.78	121.54
2	E3	44	GLN	N-CA-CB	5.36	119.55	110.49
2	Z3	44	GLN	N-CA-CB	5.36	119.55	110.49
2	M4	44	GLN	N-CA-CB	5.36	119.55	110.49
2	k6	44	GLN	N-CA-CB	5.36	119.55	110.49
2	M8	44	GLN	N-CA-CB	5.36	119.55	110.49
2	c8	44	GLN	N-CA-CB	5.36	119.55	110.49
3	AB	264	ASP	CA-C-N	5.36	131.78	121.54
3	AB	264	ASP	C-N-CA	5.36	131.78	121.54
2	OE	44	GLN	N-CA-CB	5.36	119.55	110.49
2	eE	44	GLN	N-CA-CB	5.36	119.55	110.49
2	MG	44	GLN	N-CA-CB	5.36	119.55	110.49
2	MQ	44	GLN	N-CA-CB	5.36	119.55	110.49
2	M6	44	GLN	N-CA-CB	5.36	119.55	110.49
2	U6	44	GLN	N-CA-CB	5.36	119.55	110.49
2	M7	44	GLN	N-CA-CB	5.36	119.55	110.49
2	U7	44	GLN	N-CA-CB	5.36	119.55	110.49
2	EL	44	GLN	N-CA-CB	5.36	119.55	110.49
2	cL	44	GLN	N-CA-CB	5.36	119.55	110.49
2	hL	44	GLN	N-CA-CB	5.36	119.55	110.49
3	AN	264	ASP	CA-C-N	5.36	131.78	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	AN	264	ASP	C-N-CA	5.36	131.78	121.54
2	EQ	44	GLN	N-CA-CB	5.36	119.55	110.49
2	UR	44	GLN	N-CA-CB	5.36	119.55	110.49
2	cR	44	GLN	N-CA-CB	5.36	119.55	110.49
3	AC	264	ASP	CA-C-N	5.36	131.78	121.54
3	AC	264	ASP	C-N-CA	5.36	131.78	121.54
3	A9	264	ASP	CA-C-N	5.35	131.76	121.54
3	A9	264	ASP	C-N-CA	5.35	131.76	121.54
5	D2	38	TYR	CA-C-N	5.35	131.76	121.54
5	D2	38	TYR	C-N-CA	5.35	131.76	121.54
5	DH	38	TYR	CA-C-N	5.35	131.76	121.54
5	DH	38	TYR	C-N-CA	5.35	131.76	121.54
2	MS	44	GLN	CA-C-N	5.35	131.59	121.97
2	MS	44	GLN	C-N-CA	5.35	131.59	121.97
3	A2	264	ASP	CA-C-N	5.34	131.73	121.54
3	A2	264	ASP	C-N-CA	5.34	131.73	121.54
5	D9	38	TYR	CA-C-N	5.34	131.73	121.54
5	D9	38	TYR	C-N-CA	5.34	131.73	121.54
5	DB	38	TYR	CA-C-N	5.33	131.73	121.54
5	DB	38	TYR	C-N-CA	5.33	131.73	121.54
5	DI	38	TYR	CA-C-N	5.33	131.73	121.54
5	DI	38	TYR	C-N-CA	5.33	131.73	121.54
5	DN	38	TYR	CA-C-N	5.33	131.73	121.54
5	DN	38	TYR	C-N-CA	5.33	131.73	121.54
5	DC	38	TYR	CA-C-N	5.33	131.72	121.54
5	DC	38	TYR	C-N-CA	5.33	131.72	121.54
5	DF	38	TYR	CA-C-N	5.33	131.72	121.54
5	DF	38	TYR	C-N-CA	5.33	131.72	121.54
5	D5	38	TYR	CA-C-N	5.33	131.72	121.54
5	D5	38	TYR	C-N-CA	5.33	131.72	121.54
5	DA	38	TYR	CA-C-N	5.32	131.71	121.54
5	DA	38	TYR	C-N-CA	5.32	131.71	121.54
5	DO	38	TYR	CA-C-N	5.32	131.71	121.54
5	DO	38	TYR	C-N-CA	5.32	131.71	121.54
3	AA	264	ASP	CA-C-N	5.32	131.69	121.54
3	AA	264	ASP	C-N-CA	5.32	131.69	121.54
1	CP	183	LEU	CA-CB-CG	5.32	134.90	116.30
1	CJ	183	LEU	CA-CB-CG	5.31	134.90	116.30
1	CK	183	LEU	CA-CB-CG	5.30	134.87	116.30
1	BS	183	LEU	CA-CB-CG	5.30	134.87	116.30
1	CD	183	LEU	CA-CB-CG	5.30	134.85	116.30
2	E1	44	GLN	N-CA-C	5.19	121.86	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	M3	44	GLN	N-CA-C	5.19	121.86	110.80
2	E4	44	GLN	N-CA-C	5.19	121.86	110.80
2	E6	44	GLN	N-CA-C	5.19	121.86	110.80
2	M6	39	ASP	N-CA-C	-5.19	99.98	108.76
2	U6	39	ASP	N-CA-C	-5.19	99.98	108.76
2	M7	39	ASP	N-CA-C	-5.19	99.98	108.76
2	U7	39	ASP	N-CA-C	-5.19	99.98	108.76
2	c7	44	GLN	N-CA-C	5.19	121.86	110.80
2	U8	44	GLN	N-CA-C	5.19	121.86	110.80
2	k8	44	GLN	N-CA-C	5.19	121.86	110.80
2	EE	44	GLN	N-CA-C	5.19	121.86	110.80
2	UG	44	GLN	N-CA-C	5.19	121.86	110.80
2	EL	39	ASP	N-CA-C	-5.19	99.98	108.76
2	cL	39	ASP	N-CA-C	-5.19	99.98	108.76
2	hL	39	ASP	N-CA-C	-5.19	99.98	108.76
2	EQ	39	ASP	N-CA-C	-5.19	99.98	108.76
2	MR	44	GLN	N-CA-C	5.19	121.86	110.80
2	UR	39	ASP	N-CA-C	-5.19	99.98	108.76
2	cR	39	ASP	N-CA-C	-5.19	99.98	108.76
2	M6	44	GLN	N-CA-C	5.19	121.86	110.80
2	U6	44	GLN	N-CA-C	5.19	121.86	110.80
2	M7	44	GLN	N-CA-C	5.19	121.86	110.80
2	U7	44	GLN	N-CA-C	5.19	121.86	110.80
2	EL	44	GLN	N-CA-C	5.19	121.86	110.80
2	cL	44	GLN	N-CA-C	5.19	121.86	110.80
2	hL	44	GLN	N-CA-C	5.19	121.86	110.80
2	EQ	44	GLN	N-CA-C	5.19	121.86	110.80
2	UR	44	GLN	N-CA-C	5.19	121.86	110.80
2	cR	44	GLN	N-CA-C	5.19	121.86	110.80
2	M1	39	ASP	N-CA-C	-5.19	99.99	108.76
2	U3	39	ASP	N-CA-C	-5.19	99.99	108.76
2	c3	39	ASP	N-CA-C	-5.19	99.99	108.76
2	b4	39	ASP	N-CA-C	-5.19	99.99	108.76
2	c6	39	ASP	N-CA-C	-5.19	99.99	108.76
2	k7	39	ASP	N-CA-C	-5.19	99.99	108.76
2	E8	39	ASP	N-CA-C	-5.19	99.99	108.76
2	WE	39	ASP	N-CA-C	-5.19	99.99	108.76
2	cG	39	ASP	N-CA-C	-5.19	99.99	108.76
1	AJ	45	MET	O-C-N	5.19	129.72	122.36
1	AK	45	MET	O-C-N	5.19	129.73	122.36
2	ER	39	ASP	N-CA-C	-5.19	99.99	108.76
2	b1	39	ASP	N-CA-C	-5.18	100.00	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	j1	39	ASP	N-CA-C	-5.18	100.00	108.76
2	E7	39	ASP	N-CA-C	-5.18	100.00	108.76
2	EG	39	ASP	N-CA-C	-5.18	100.00	108.76
2	kG	39	ASP	N-CA-C	-5.18	100.00	108.76
2	ML	39	ASP	N-CA-C	-5.18	100.00	108.76
2	UL	39	ASP	N-CA-C	-5.18	100.00	108.76
2	UQ	39	ASP	N-CA-C	-5.18	100.00	108.76
2	ZQ	39	ASP	N-CA-C	-5.18	100.00	108.76
2	fQ	39	ASP	N-CA-C	-5.18	100.00	108.76
2	E3	44	GLN	N-CA-C	5.18	121.83	110.80
2	Z3	44	GLN	N-CA-C	5.18	121.83	110.80
2	M4	44	GLN	N-CA-C	5.18	121.83	110.80
2	k6	44	GLN	N-CA-C	5.18	121.83	110.80
2	M8	44	GLN	N-CA-C	5.18	121.83	110.80
2	c8	44	GLN	N-CA-C	5.18	121.83	110.80
2	OE	44	GLN	N-CA-C	5.18	121.83	110.80
2	eE	44	GLN	N-CA-C	5.18	121.83	110.80
2	MG	44	GLN	N-CA-C	5.18	121.83	110.80
2	MQ	44	GLN	N-CA-C	5.18	121.83	110.80
2	M1	44	GLN	N-CA-C	5.18	121.83	110.80
2	U3	44	GLN	N-CA-C	5.18	121.83	110.80
2	c3	44	GLN	N-CA-C	5.18	121.83	110.80
2	b4	44	GLN	N-CA-C	5.18	121.83	110.80
2	c6	44	GLN	N-CA-C	5.18	121.83	110.80
2	k7	44	GLN	N-CA-C	5.18	121.83	110.80
2	E8	44	GLN	N-CA-C	5.18	121.83	110.80
2	WE	44	GLN	N-CA-C	5.18	121.83	110.80
2	cG	44	GLN	N-CA-C	5.18	121.83	110.80
2	ER	44	GLN	N-CA-C	5.18	121.83	110.80
2	b1	44	GLN	N-CA-C	5.17	121.82	110.80
2	j1	44	GLN	N-CA-C	5.17	121.82	110.80
2	E7	44	GLN	N-CA-C	5.17	121.82	110.80
2	EG	44	GLN	N-CA-C	5.17	121.82	110.80
2	kG	44	GLN	N-CA-C	5.17	121.82	110.80
2	ML	44	GLN	N-CA-C	5.17	121.82	110.80
2	UL	44	GLN	N-CA-C	5.17	121.82	110.80
2	UQ	44	GLN	N-CA-C	5.17	121.82	110.80
2	ZQ	44	GLN	N-CA-C	5.17	121.82	110.80
2	fQ	44	GLN	N-CA-C	5.17	121.82	110.80
2	E1	39	ASP	N-CA-C	-5.17	100.02	108.76
2	M3	39	ASP	N-CA-C	-5.17	100.02	108.76
2	E4	39	ASP	N-CA-C	-5.17	100.02	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E6	39	ASP	N-CA-C	-5.17	100.02	108.76
2	c7	39	ASP	N-CA-C	-5.17	100.02	108.76
2	U8	39	ASP	N-CA-C	-5.17	100.02	108.76
2	k8	39	ASP	N-CA-C	-5.17	100.02	108.76
2	EE	39	ASP	N-CA-C	-5.17	100.02	108.76
2	UG	39	ASP	N-CA-C	-5.17	100.02	108.76
2	MR	39	ASP	N-CA-C	-5.17	100.02	108.76
1	AD	45	MET	O-C-N	5.17	129.70	122.36
2	E3	39	ASP	N-CA-C	-5.16	100.03	108.76
2	Z3	39	ASP	N-CA-C	-5.16	100.03	108.76
2	M4	39	ASP	N-CA-C	-5.16	100.03	108.76
2	k6	39	ASP	N-CA-C	-5.16	100.03	108.76
2	M8	39	ASP	N-CA-C	-5.16	100.03	108.76
2	c8	39	ASP	N-CA-C	-5.16	100.03	108.76
2	OE	39	ASP	N-CA-C	-5.16	100.03	108.76
2	eE	39	ASP	N-CA-C	-5.16	100.03	108.76
2	MG	39	ASP	N-CA-C	-5.16	100.03	108.76
2	MQ	39	ASP	N-CA-C	-5.16	100.03	108.76
1	IS	45	MET	O-C-N	5.15	129.68	122.36
1	AP	45	MET	O-C-N	5.15	129.67	122.36
4	BC	224	LEU	CA-CB-CG	5.14	134.29	116.30
4	BF	224	LEU	CA-CB-CG	5.13	134.25	116.30
4	BO	224	LEU	CA-CB-CG	5.13	134.25	116.30
4	B5	224	LEU	CA-CB-CG	5.13	134.24	116.30
4	BI	224	LEU	CA-CB-CG	5.12	134.24	116.30
4	BM	224	LEU	CA-CB-CG	5.12	134.23	116.30
4	B9	224	LEU	CA-CB-CG	5.12	134.23	116.30
4	BA	224	LEU	CA-CB-CG	5.12	134.22	116.30
4	BH	224	LEU	CA-CB-CG	5.12	134.22	116.30
4	BN	224	LEU	CA-CB-CG	5.12	134.22	116.30
4	B2	224	LEU	CA-CB-CG	5.12	134.22	116.30
4	BB	224	LEU	CA-CB-CG	5.11	134.19	116.30
2	FK	44	GLN	CA-C-N	5.04	131.05	121.97
2	FK	44	GLN	C-N-CA	5.04	131.05	121.97
1	B1	324	LEU	N-CA-C	5.02	117.58	110.50
1	K3	324	LEU	N-CA-C	5.02	117.58	110.50
1	B4	324	LEU	N-CA-C	5.02	117.58	110.50
1	S4	324	LEU	N-CA-C	5.02	117.58	110.50
1	B6	324	LEU	N-CA-C	5.02	117.58	110.50
1	a7	324	LEU	N-CA-C	5.02	117.58	110.50
1	S8	324	LEU	N-CA-C	5.02	117.58	110.50
1	i8	324	LEU	N-CA-C	5.02	117.58	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	FD	44	GLN	CA-C-N	5.02	131.00	121.97
2	FD	44	GLN	C-N-CA	5.02	131.00	121.97
1	SG	324	LEU	N-CA-C	5.02	117.58	110.50
1	KR	324	LEU	N-CA-C	5.02	117.58	110.50
3	A9	216	ASP	CA-C-N	5.02	131.12	121.54
3	A9	216	ASP	C-N-CA	5.02	131.12	121.54
1	K6	324	LEU	N-CA-C	5.01	117.57	110.50
1	S6	324	LEU	N-CA-C	5.01	117.57	110.50
1	K7	324	LEU	N-CA-C	5.01	117.57	110.50
1	S7	324	LEU	N-CA-C	5.01	117.57	110.50
1	BL	324	LEU	N-CA-C	5.01	117.57	110.50
1	aL	324	LEU	N-CA-C	5.01	117.57	110.50
1	BQ	324	LEU	N-CA-C	5.01	117.57	110.50
1	SR	324	LEU	N-CA-C	5.01	117.57	110.50
1	aR	324	LEU	N-CA-C	5.01	117.57	110.50
1	iR	324	LEU	N-CA-C	5.01	117.57	110.50
1	K1	324	LEU	N-CA-C	5.01	117.56	110.50
1	S3	324	LEU	N-CA-C	5.01	117.56	110.50
1	Z4	324	LEU	N-CA-C	5.01	117.56	110.50
1	a6	324	LEU	N-CA-C	5.01	117.56	110.50
1	i7	324	LEU	N-CA-C	5.01	117.56	110.50
1	B8	324	LEU	N-CA-C	5.01	117.56	110.50
1	CE	324	LEU	N-CA-C	5.01	117.56	110.50
1	UE	324	LEU	N-CA-C	5.01	117.56	110.50
1	aG	324	LEU	N-CA-C	5.01	117.56	110.50
1	BR	324	LEU	N-CA-C	5.01	117.56	110.50
3	AA	153	ASP	N-CA-C	5.01	119.11	113.15
2	FJ	44	GLN	CA-C-N	5.01	130.98	121.97
2	FJ	44	GLN	C-N-CA	5.01	130.98	121.97
2	ES	44	GLN	CA-C-N	5.00	130.97	121.97
2	ES	44	GLN	C-N-CA	5.00	130.97	121.97

There are no chirality outliers.

All (732) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A1	204	ALA	Peptide
1	A1	61	THR	Mainchain
3	A2	13	SER	Peptide
3	A2	179	LYS	Peptide
3	A2	187	GLU	Peptide
3	A2	188	ILE	Peptide

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Mol	Chain	Res	Type	Group
3	A2	307	THR	Peptide
1	A3	204	ALA	Peptide
1	A3	61	THR	Mainchain
1	A4	204	ALA	Peptide
1	A4	61	THR	Mainchain
3	A5	13	SER	Peptide
3	A5	179	LYS	Peptide
3	A5	187	GLU	Peptide
3	A5	188	ILE	Peptide
3	A5	307	THR	Peptide
1	A6	204	ALA	Peptide
1	A6	61	THR	Mainchain
1	A7	204	ALA	Peptide
1	A7	61	THR	Mainchain
1	A8	204	ALA	Peptide
1	A8	61	THR	Mainchain
3	A9	13	SER	Peptide
3	A9	179	LYS	Peptide
3	A9	187	GLU	Peptide
3	A9	188	ILE	Peptide
3	A9	307	THR	Peptide
3	AA	13	SER	Peptide
3	AA	179	LYS	Peptide
3	AA	187	GLU	Peptide
3	AA	188	ILE	Peptide
3	AA	307	THR	Peptide
3	AB	13	SER	Peptide
3	AB	179	LYS	Peptide
3	AB	187	GLU	Peptide
3	AB	188	ILE	Peptide
3	AB	307	THR	Peptide
3	AC	13	SER	Peptide
3	AC	179	LYS	Peptide
3	AC	187	GLU	Peptide
3	AC	188	ILE	Peptide
3	AC	307	THR	Peptide
1	AD	70	ASN	Peptide
1	AE	347	ILE	Peptide
3	AF	13	SER	Peptide
3	AF	179	LYS	Peptide
3	AF	187	GLU	Peptide
3	AF	188	ILE	Peptide

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Mol	Chain	Res	Type	Group
3	AF	307	THR	Peptide
1	AG	204	ALA	Peptide
1	AG	61	THR	Mainchain
3	AH	13	SER	Peptide
3	AH	179	LYS	Peptide
3	AH	187	GLU	Peptide
3	AH	188	ILE	Peptide
3	AH	307	THR	Peptide
3	AI	13	SER	Peptide
3	AI	179	LYS	Peptide
3	AI	187	GLU	Peptide
3	AI	188	ILE	Peptide
3	AI	307	THR	Peptide
1	AJ	70	ASN	Peptide
1	AK	70	ASN	Peptide
1	AL	204	ALA	Peptide
1	AL	61	THR	Mainchain
3	AM	13	SER	Peptide
3	AM	179	LYS	Peptide
3	AM	187	GLU	Peptide
3	AM	188	ILE	Peptide
3	AM	307	THR	Peptide
3	AN	13	SER	Peptide
3	AN	179	LYS	Peptide
3	AN	187	GLU	Peptide
3	AN	188	ILE	Peptide
3	AN	307	THR	Peptide
3	AO	13	SER	Peptide
3	AO	179	LYS	Peptide
3	AO	187	GLU	Peptide
3	AO	188	ILE	Peptide
3	AO	307	THR	Peptide
1	AP	70	ASN	Peptide
1	AQ	204	ALA	Peptide
1	AQ	61	THR	Mainchain
1	AR	204	ALA	Peptide
1	AR	61	THR	Mainchain
1	AS	183	LEU	Peptide
1	AS	202	PHE	Peptide
1	B1	61	THR	Peptide
4	B2	113	TYR	Peptide
4	B2	114	SER	Peptide

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Mol	Chain	Res	Type	Group
1	B3	61	THR	Peptide
1	B4	61	THR	Peptide
4	B5	113	TYR	Peptide
4	B5	114	SER	Peptide
1	B6	61	THR	Peptide
1	B7	61	THR	Peptide
1	B8	61	THR	Peptide
4	B9	113	TYR	Peptide
4	B9	114	SER	Peptide
4	BA	113	TYR	Peptide
4	BA	114	SER	Peptide
4	BB	113	TYR	Peptide
4	BB	114	SER	Peptide
4	BC	113	TYR	Peptide
4	BC	114	SER	Peptide
1	BD	183	LEU	Peptide
1	BD	202	PHE	Peptide
1	BE	204	ALA	Peptide
1	BE	61	THR	Mainchain
4	BF	113	TYR	Peptide
4	BF	114	SER	Peptide
1	BG	61	THR	Peptide
4	BH	113	TYR	Peptide
4	BH	114	SER	Peptide
4	BI	113	TYR	Peptide
4	BI	114	SER	Peptide
1	BJ	183	LEU	Peptide
1	BJ	202	PHE	Peptide
1	BK	183	LEU	Peptide
1	BK	202	PHE	Peptide
1	BL	61	THR	Peptide
4	BM	113	TYR	Peptide
4	BM	114	SER	Peptide
4	BN	113	TYR	Peptide
4	BN	114	SER	Peptide
4	BO	113	TYR	Peptide
4	BO	114	SER	Peptide
1	BP	183	LEU	Peptide
1	BP	202	PHE	Peptide
1	BQ	61	THR	Peptide
1	BR	61	THR	Peptide
1	C1	347	ILE	Peptide

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Mol	Chain	Res	Type	Group
1	C3	347	ILE	Peptide
1	C4	347	ILE	Peptide
1	C6	347	ILE	Peptide
1	C7	347	ILE	Peptide
1	C8	347	ILE	Peptide
1	CE	61	THR	Peptide
1	CG	347	ILE	Peptide
1	CL	347	ILE	Peptide
1	CQ	347	ILE	Peptide
1	CR	347	ILE	Peptide
1	CS	206	LEU	Peptide
1	CS	347	ILE	Peptide
1	DD	206	LEU	Peptide
1	DD	347	ILE	Peptide
1	DJ	206	LEU	Peptide
1	DJ	347	ILE	Peptide
1	DK	206	LEU	Peptide
1	DK	347	ILE	Peptide
1	DP	206	LEU	Peptide
1	DP	347	ILE	Peptide
2	DS	24	THR	Peptide
2	DS	25	GLU	Peptide
2	DS	45	ILE	Peptide
2	E1	9	SER	Peptide
2	E3	9	SER	Peptide
2	E4	9	SER	Peptide
2	E6	9	SER	Peptide
2	E7	9	SER	Peptide
2	E8	9	SER	Peptide
2	ED	24	THR	Peptide
2	ED	25	GLU	Peptide
2	ED	45	ILE	Peptide
2	EE	9	SER	Peptide
2	EG	9	SER	Peptide
2	EJ	24	THR	Peptide
2	EJ	25	GLU	Peptide
2	EJ	45	ILE	Peptide
2	EK	24	THR	Peptide
2	EK	25	GLU	Peptide
2	EK	45	ILE	Peptide
2	EL	9	SER	Peptide
2	EP	24	THR	Peptide

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Mol	Chain	Res	Type	Group
2	EP	25	GLU	Peptide
2	EP	45	ILE	Peptide
2	EQ	9	SER	Peptide
2	ER	9	SER	Peptide
2	ES	11	MET	Peptide
2	ES	44	GLN	Peptide
2	F1	24	THR	Peptide
2	F1	43	VAL	Peptide
5	F2	110	LYS	Peptide
2	F3	24	THR	Peptide
2	F3	43	VAL	Peptide
2	F4	24	THR	Peptide
2	F4	43	VAL	Peptide
5	F5	110	LYS	Peptide
2	F6	24	THR	Peptide
2	F6	43	VAL	Peptide
2	F7	24	THR	Peptide
2	F7	43	VAL	Peptide
2	F8	24	THR	Peptide
2	F8	43	VAL	Peptide
5	F9	110	LYS	Peptide
5	FA	110	LYS	Peptide
5	FB	110	LYS	Peptide
5	FC	110	LYS	Peptide
2	FD	11	MET	Peptide
2	FD	44	GLN	Peptide
5	FF	110	LYS	Peptide
2	FG	24	THR	Peptide
2	FG	43	VAL	Peptide
5	FH	110	LYS	Peptide
5	FI	110	LYS	Peptide
2	FJ	11	MET	Peptide
2	FJ	44	GLN	Peptide
2	FK	11	MET	Peptide
2	FK	44	GLN	Peptide
2	FL	24	THR	Peptide
2	FL	43	VAL	Peptide
5	FM	110	LYS	Peptide
5	FN	110	LYS	Peptide
5	FO	110	LYS	Peptide
2	FP	11	MET	Peptide
2	FP	44	GLN	Peptide

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Mol	Chain	Res	Type	Group
2	FQ	24	THR	Peptide
2	FQ	43	VAL	Peptide
2	FR	24	THR	Peptide
2	FR	43	VAL	Peptide
2	G1	16	GLU	Peptide
2	G1	24	THR	Peptide
2	G1	9	SER	Peptide
2	G3	16	GLU	Peptide
2	G3	24	THR	Peptide
2	G3	9	SER	Peptide
2	G4	16	GLU	Peptide
2	G4	24	THR	Peptide
2	G4	9	SER	Peptide
2	G6	16	GLU	Peptide
2	G6	24	THR	Peptide
2	G6	9	SER	Peptide
2	G7	16	GLU	Peptide
2	G7	24	THR	Peptide
2	G7	9	SER	Peptide
2	G8	16	GLU	Peptide
2	G8	24	THR	Peptide
2	G8	9	SER	Peptide
2	GE	16	GLU	Peptide
2	GE	24	THR	Peptide
2	GE	9	SER	Peptide
2	GG	16	GLU	Peptide
2	GG	24	THR	Peptide
2	GG	9	SER	Peptide
2	GL	16	GLU	Peptide
2	GL	24	THR	Peptide
2	GL	9	SER	Peptide
2	GQ	16	GLU	Peptide
2	GQ	24	THR	Peptide
2	GQ	9	SER	Peptide
2	GR	16	GLU	Peptide
2	GR	24	THR	Peptide
2	GR	9	SER	Peptide
2	H1	44	GLN	Peptide
2	H3	44	GLN	Peptide
2	H4	44	GLN	Peptide
2	H6	44	GLN	Peptide
2	H7	44	GLN	Peptide

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Mol	Chain	Res	Type	Group
2	H8	44	GLN	Peptide
2	HE	24	THR	Peptide
2	HE	43	VAL	Peptide
2	HG	44	GLN	Peptide
2	HL	44	GLN	Peptide
2	HQ	44	GLN	Peptide
2	HR	44	GLN	Peptide
1	I1	347	ILE	Peptide
1	I3	347	ILE	Peptide
1	I4	347	ILE	Peptide
1	I6	347	ILE	Peptide
1	I7	347	ILE	Peptide
1	I8	347	ILE	Peptide
2	IE	16	GLU	Peptide
2	IE	24	THR	Peptide
2	IE	9	SER	Peptide
1	IG	347	ILE	Peptide
1	IL	347	ILE	Peptide
1	IQ	347	ILE	Peptide
1	IR	347	ILE	Peptide
1	IS	70	ASN	Peptide
1	J1	204	ALA	Peptide
1	J1	61	THR	Mainchain
1	J3	204	ALA	Peptide
1	J3	61	THR	Mainchain
1	J4	204	ALA	Peptide
1	J4	61	THR	Mainchain
1	J6	204	ALA	Peptide
1	J6	61	THR	Mainchain
1	J7	204	ALA	Peptide
1	J7	61	THR	Mainchain
1	J8	204	ALA	Peptide
1	J8	61	THR	Mainchain
2	JE	44	GLN	Peptide
1	JG	204	ALA	Peptide
1	JG	61	THR	Mainchain
1	JL	204	ALA	Peptide
1	JL	61	THR	Mainchain
1	JQ	204	ALA	Peptide
1	JQ	61	THR	Mainchain
1	JR	204	ALA	Peptide
1	JR	61	THR	Mainchain

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Mol	Chain	Res	Type	Group
1	JS	345	LEU	Peptide
1	K1	61	THR	Peptide
1	K3	61	THR	Peptide
1	K4	61	THR	Peptide
1	K6	61	THR	Peptide
1	K7	61	THR	Peptide
1	K8	61	THR	Peptide
1	KD	345	LEU	Peptide
1	KE	347	ILE	Peptide
1	KG	61	THR	Peptide
1	KJ	159	LYS	Peptide
1	KJ	345	LEU	Peptide
1	KK	345	LEU	Peptide
1	KL	61	THR	Peptide
1	KP	345	LEU	Peptide
1	KQ	61	THR	Peptide
1	KR	61	THR	Peptide
1	KS	206	LEU	Peptide
1	LD	206	LEU	Peptide
1	LE	204	ALA	Peptide
1	LE	61	THR	Mainchain
1	LJ	206	LEU	Peptide
1	LK	206	LEU	Peptide
1	LP	206	LEU	Peptide
2	LS	45	ILE	Peptide
2	M1	9	SER	Peptide
2	M3	9	SER	Peptide
2	M4	9	SER	Peptide
2	M6	9	SER	Peptide
2	M7	9	SER	Peptide
2	M8	9	SER	Peptide
2	MD	45	ILE	Peptide
1	ME	61	THR	Peptide
2	MG	9	SER	Peptide
2	MJ	45	ILE	Peptide
2	MK	45	ILE	Peptide
2	ML	9	SER	Peptide
2	MP	45	ILE	Peptide
2	MQ	9	SER	Peptide
2	MR	9	SER	Peptide
2	MS	44	GLN	Peptide
2	N1	24	THR	Peptide

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Mol	Chain	Res	Type	Group
2	N1	43	VAL	Peptide
2	N3	24	THR	Peptide
2	N3	43	VAL	Peptide
2	N4	24	THR	Peptide
2	N4	43	VAL	Peptide
2	N6	24	THR	Peptide
2	N6	43	VAL	Peptide
2	N7	24	THR	Peptide
2	N7	43	VAL	Peptide
2	N8	24	THR	Peptide
2	N8	43	VAL	Peptide
2	ND	44	GLN	Peptide
2	NG	24	THR	Peptide
2	NG	43	VAL	Peptide
2	NJ	44	GLN	Peptide
2	NK	44	GLN	Peptide
2	NL	24	THR	Peptide
2	NL	43	VAL	Peptide
2	NP	44	GLN	Peptide
2	NQ	24	THR	Peptide
2	NQ	43	VAL	Peptide
2	NR	24	THR	Peptide
2	NR	43	VAL	Peptide
2	O1	16	GLU	Peptide
2	O1	24	THR	Peptide
2	O1	9	SER	Peptide
2	O3	16	GLU	Peptide
2	O3	24	THR	Peptide
2	O3	9	SER	Peptide
2	O4	16	GLU	Peptide
2	O4	24	THR	Peptide
2	O4	9	SER	Peptide
2	O6	16	GLU	Peptide
2	O6	24	THR	Peptide
2	O6	9	SER	Peptide
2	O7	16	GLU	Peptide
2	O7	24	THR	Peptide
2	O7	9	SER	Peptide
2	O8	16	GLU	Peptide
2	O8	24	THR	Peptide
2	O8	9	SER	Peptide
2	OE	9	SER	Peptide

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Mol	Chain	Res	Type	Group
2	OG	16	GLU	Peptide
2	OG	24	THR	Peptide
2	OG	9	SER	Peptide
2	OL	16	GLU	Peptide
2	OL	24	THR	Peptide
2	OL	9	SER	Peptide
2	OQ	16	GLU	Peptide
2	OQ	24	THR	Peptide
2	OQ	9	SER	Peptide
2	OR	16	GLU	Peptide
2	OR	24	THR	Peptide
2	OR	9	SER	Peptide
2	P1	44	GLN	Peptide
2	P3	44	GLN	Peptide
2	P4	44	GLN	Peptide
2	P6	44	GLN	Peptide
2	P7	44	GLN	Peptide
2	P8	44	GLN	Peptide
2	PE	24	THR	Peptide
2	PE	43	VAL	Peptide
2	PG	44	GLN	Peptide
2	PL	44	GLN	Peptide
2	PQ	44	GLN	Peptide
2	PR	44	GLN	Peptide
1	Q1	347	ILE	Peptide
1	Q3	347	ILE	Peptide
1	Q4	347	ILE	Peptide
1	Q6	347	ILE	Peptide
1	Q7	347	ILE	Peptide
1	Q8	347	ILE	Peptide
2	QE	16	GLU	Peptide
2	QE	24	THR	Peptide
2	QE	9	SER	Peptide
1	QG	347	ILE	Peptide
1	QL	347	ILE	Peptide
1	QQ	347	ILE	Peptide
1	QR	347	ILE	Peptide
1	R1	204	ALA	Peptide
1	R1	61	THR	Mainchain
1	R3	204	ALA	Peptide
1	R3	61	THR	Mainchain
1	R4	204	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	R4	61	THR	Mainchain
1	R6	204	ALA	Peptide
1	R6	61	THR	Mainchain
1	R7	204	ALA	Peptide
1	R7	61	THR	Mainchain
1	R8	204	ALA	Peptide
1	R8	61	THR	Mainchain
2	RE	44	GLN	Peptide
1	RG	204	ALA	Peptide
1	RG	61	THR	Mainchain
1	RL	204	ALA	Peptide
1	RL	61	THR	Mainchain
1	RQ	204	ALA	Peptide
1	RQ	61	THR	Mainchain
1	RR	204	ALA	Peptide
1	RR	61	THR	Mainchain
1	S1	61	THR	Peptide
1	S3	61	THR	Peptide
1	S4	61	THR	Peptide
1	S6	61	THR	Peptide
1	S7	61	THR	Peptide
1	S8	61	THR	Peptide
1	SE	347	ILE	Peptide
1	SG	61	THR	Peptide
1	SL	61	THR	Peptide
1	SQ	61	THR	Peptide
1	SR	61	THR	Peptide
1	TE	204	ALA	Peptide
1	TE	61	THR	Mainchain
2	U1	24	THR	Peptide
2	U1	43	VAL	Peptide
2	U3	9	SER	Peptide
2	U4	24	THR	Peptide
2	U4	43	VAL	Peptide
2	U6	9	SER	Peptide
2	U7	9	SER	Peptide
2	U8	9	SER	Peptide
1	UE	61	THR	Peptide
2	UG	9	SER	Peptide
2	UL	9	SER	Peptide
2	UQ	9	SER	Peptide
2	UR	9	SER	Peptide

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Mol	Chain	Res	Type	Group
2	V1	16	GLU	Peptide
2	V1	24	THR	Peptide
2	V1	9	SER	Peptide
2	V3	24	THR	Peptide
2	V3	43	VAL	Peptide
2	V4	16	GLU	Peptide
2	V4	24	THR	Peptide
2	V4	9	SER	Peptide
2	V6	24	THR	Peptide
2	V6	43	VAL	Peptide
2	V7	24	THR	Peptide
2	V7	43	VAL	Peptide
2	V8	24	THR	Peptide
2	V8	43	VAL	Peptide
2	VG	24	THR	Peptide
2	VG	43	VAL	Peptide
2	VL	24	THR	Peptide
2	VL	43	VAL	Peptide
2	VQ	24	THR	Peptide
2	VQ	43	VAL	Peptide
2	VR	24	THR	Peptide
2	VR	43	VAL	Peptide
2	W1	44	GLN	Peptide
2	W3	16	GLU	Peptide
2	W3	24	THR	Peptide
2	W3	9	SER	Peptide
2	W4	44	GLN	Peptide
2	W6	16	GLU	Peptide
2	W6	24	THR	Peptide
2	W6	9	SER	Peptide
2	W7	16	GLU	Peptide
2	W7	24	THR	Peptide
2	W7	9	SER	Peptide
2	W8	16	GLU	Peptide
2	W8	24	THR	Peptide
2	W8	9	SER	Peptide
2	WE	9	SER	Peptide
2	WG	16	GLU	Peptide
2	WG	24	THR	Peptide
2	WG	9	SER	Peptide
2	WL	16	GLU	Peptide
2	WL	24	THR	Peptide

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Mol	Chain	Res	Type	Group
2	WL	9	SER	Peptide
2	WQ	16	GLU	Peptide
2	WQ	24	THR	Peptide
2	WQ	9	SER	Peptide
2	WR	16	GLU	Peptide
2	WR	24	THR	Peptide
2	WR	9	SER	Peptide
1	X1	347	ILE	Peptide
2	X3	44	GLN	Peptide
1	X4	347	ILE	Peptide
2	X6	44	GLN	Peptide
2	X7	44	GLN	Peptide
2	X8	44	GLN	Peptide
2	XE	24	THR	Peptide
2	XE	43	VAL	Peptide
2	XG	44	GLN	Peptide
2	XL	44	GLN	Peptide
2	XQ	44	GLN	Peptide
2	XR	44	GLN	Peptide
1	Y1	204	ALA	Peptide
1	Y1	61	THR	Mainchain
1	Y4	204	ALA	Peptide
1	Y4	61	THR	Mainchain
1	Y6	347	ILE	Peptide
1	Y7	347	ILE	Peptide
1	Y8	347	ILE	Peptide
2	YE	16	GLU	Peptide
2	YE	24	THR	Peptide
2	YE	9	SER	Peptide
1	YG	347	ILE	Peptide
1	YL	347	ILE	Peptide
1	YR	347	ILE	Peptide
1	Z1	61	THR	Peptide
2	Z3	9	SER	Peptide
1	Z4	61	THR	Peptide
1	Z6	204	ALA	Peptide
1	Z6	61	THR	Mainchain
1	Z7	204	ALA	Peptide
1	Z7	61	THR	Mainchain
1	Z8	204	ALA	Peptide
1	Z8	61	THR	Mainchain
2	ZE	44	GLN	Peptide

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Mol	Chain	Res	Type	Group
1	ZG	204	ALA	Peptide
1	ZG	61	THR	Mainchain
1	ZL	204	ALA	Peptide
1	ZL	61	THR	Mainchain
2	ZQ	9	SER	Peptide
1	ZR	204	ALA	Peptide
1	ZR	61	THR	Mainchain
2	a3	16	GLU	Peptide
2	a3	24	THR	Peptide
2	a3	9	SER	Peptide
1	a6	61	THR	Peptide
1	a7	61	THR	Peptide
1	a8	61	THR	Peptide
1	aE	347	ILE	Peptide
1	aG	61	THR	Peptide
1	aL	61	THR	Peptide
2	aQ	16	GLU	Peptide
2	aQ	24	THR	Peptide
2	aQ	9	SER	Peptide
1	aR	61	THR	Peptide
2	b1	9	SER	Peptide
2	b4	9	SER	Peptide
1	bE	204	ALA	Peptide
1	bE	61	THR	Mainchain
1	bQ	347	ILE	Peptide
2	c1	24	THR	Peptide
2	c1	43	VAL	Peptide
2	c3	9	SER	Peptide
2	c4	24	THR	Peptide
2	c4	43	VAL	Peptide
2	c6	9	SER	Peptide
2	c7	9	SER	Peptide
2	c8	9	SER	Peptide
1	cE	61	THR	Peptide
2	cG	9	SER	Peptide
2	cL	9	SER	Peptide
1	cQ	204	ALA	Peptide
1	cQ	61	THR	Mainchain
2	cR	9	SER	Peptide
2	d1	16	GLU	Peptide
2	d1	24	THR	Peptide
2	d1	9	SER	Peptide

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Mol	Chain	Res	Type	Group
2	d3	16	GLU	Peptide
2	d3	24	THR	Peptide
2	d3	9	SER	Peptide
2	d4	16	GLU	Peptide
2	d4	24	THR	Peptide
2	d4	9	SER	Peptide
2	d6	24	THR	Peptide
2	d6	43	VAL	Peptide
2	d7	24	THR	Peptide
2	d7	43	VAL	Peptide
2	d8	24	THR	Peptide
2	d8	43	VAL	Peptide
2	dG	24	THR	Peptide
2	dG	43	VAL	Peptide
2	dL	24	THR	Peptide
2	dL	43	VAL	Peptide
1	dQ	61	THR	Peptide
2	dR	24	THR	Peptide
2	dR	43	VAL	Peptide
2	e1	44	GLN	Peptide
2	e4	44	GLN	Peptide
2	e6	16	GLU	Peptide
2	e6	24	THR	Peptide
2	e6	9	SER	Peptide
2	e7	16	GLU	Peptide
2	e7	24	THR	Peptide
2	e7	9	SER	Peptide
2	e8	16	GLU	Peptide
2	e8	24	THR	Peptide
2	e8	9	SER	Peptide
2	eE	9	SER	Peptide
2	eG	16	GLU	Peptide
2	eG	24	THR	Peptide
2	eG	9	SER	Peptide
2	eL	16	GLU	Peptide
2	eL	24	THR	Peptide
2	eL	9	SER	Peptide
2	eR	16	GLU	Peptide
2	eR	24	THR	Peptide
2	eR	9	SER	Peptide
1	f1	347	ILE	Peptide
1	f4	347	ILE	Peptide

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Mol	Chain	Res	Type	Group
2	f6	44	GLN	Peptide
2	f7	44	GLN	Peptide
2	f8	44	GLN	Peptide
2	fE	24	THR	Peptide
2	fE	43	VAL	Peptide
2	fG	44	GLN	Peptide
2	fL	44	GLN	Peptide
2	fQ	9	SER	Peptide
2	fR	44	GLN	Peptide
1	g1	204	ALA	Peptide
1	g1	61	THR	Mainchain
1	g4	204	ALA	Peptide
1	g4	61	THR	Mainchain
1	g6	347	ILE	Peptide
1	g7	347	ILE	Peptide
1	g8	347	ILE	Peptide
2	gE	16	GLU	Peptide
2	gE	24	THR	Peptide
2	gE	9	SER	Peptide
1	gG	347	ILE	Peptide
2	gQ	24	THR	Peptide
2	gQ	43	VAL	Peptide
1	gR	347	ILE	Peptide
1	h1	61	THR	Peptide
1	h4	61	THR	Peptide
1	h6	204	ALA	Peptide
1	h6	61	THR	Mainchain
1	h7	204	ALA	Peptide
1	h7	61	THR	Mainchain
1	h8	204	ALA	Peptide
1	h8	61	THR	Mainchain
2	hE	44	GLN	Peptide
1	hG	204	ALA	Peptide
1	hG	61	THR	Mainchain
2	hL	9	SER	Peptide
2	hQ	16	GLU	Peptide
2	hQ	24	THR	Peptide
2	hQ	9	SER	Peptide
1	hR	204	ALA	Peptide
1	hR	61	THR	Mainchain
1	i6	61	THR	Peptide
1	i7	61	THR	Peptide

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Mol	Chain	Res	Type	Group
1	i8	61	THR	Peptide
1	iG	61	THR	Peptide
2	iL	16	GLU	Peptide
2	iL	24	THR	Peptide
2	iL	9	SER	Peptide
2	iQ	44	GLN	Peptide
1	iR	61	THR	Peptide
2	j1	9	SER	Peptide
2	j4	24	THR	Peptide
2	j4	43	VAL	Peptide
2	k1	24	THR	Peptide
2	k1	43	VAL	Peptide
2	k4	16	GLU	Peptide
2	k4	24	THR	Peptide
2	k4	9	SER	Peptide
2	k6	9	SER	Peptide
2	k7	9	SER	Peptide
2	k8	9	SER	Peptide
2	kG	9	SER	Peptide
2	kR	24	THR	Peptide
2	kR	43	VAL	Peptide
2	l1	16	GLU	Peptide
2	l1	24	THR	Peptide
2	l1	9	SER	Peptide
2	l4	44	GLN	Peptide
2	l6	24	THR	Peptide
2	l6	43	VAL	Peptide
2	l7	24	THR	Peptide
2	l7	43	VAL	Peptide
2	l8	24	THR	Peptide
2	l8	43	VAL	Peptide
2	lG	24	THR	Peptide
2	lG	43	VAL	Peptide
2	lR	16	GLU	Peptide
2	lR	24	THR	Peptide
2	lR	9	SER	Peptide
2	m1	44	GLN	Peptide
2	m6	16	GLU	Peptide
2	m6	24	THR	Peptide
2	m6	9	SER	Peptide
2	m7	16	GLU	Peptide
2	m7	24	THR	Peptide

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Mol	Chain	Res	Type	Group
2	m7	9	SER	Peptide
2	m8	16	GLU	Peptide
2	m8	24	THR	Peptide
2	m8	9	SER	Peptide
2	mG	16	GLU	Peptide
2	mG	24	THR	Peptide
2	mG	9	SER	Peptide
2	mR	44	GLN	Peptide
2	n6	44	GLN	Peptide
2	n7	44	GLN	Peptide
2	n8	44	GLN	Peptide
2	nG	44	GLN	Peptide

5.2 Too-close contacts (i)

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	A1	3178	0	3145	150	0
1	A3	3178	0	3145	144	0
1	A4	3178	0	3145	151	0
1	A6	3178	0	3145	147	0
1	A7	3178	0	3145	147	0
1	A8	3178	0	3145	150	0
1	AD	2821	0	2762	527	0
1	AE	3123	0	3094	354	0
1	AG	3178	0	3145	144	0
1	AJ	2821	0	2760	434	0
1	AK	2821	0	2761	481	0
1	AL	3178	0	3145	150	0
1	AP	2821	0	2761	415	0
1	AQ	3178	0	3145	146	0
1	AR	3178	0	3145	146	0
1	AS	3190	0	3156	339	0
1	B1	3123	0	3099	120	0
1	B3	3123	0	3099	118	0
1	B4	3123	0	3099	116	0
1	B6	3123	0	3099	118	0
1	B7	3123	0	3091	224	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B8	3123	0	3099	116	0
1	BD	3190	0	3156	336	0
1	BE	3178	0	3145	342	0
1	BG	3123	0	3099	118	0
1	BJ	3190	0	3156	339	0
1	BK	3190	0	3156	337	0
1	BL	3123	0	3099	122	0
1	BP	3190	0	3156	334	0
1	BQ	3123	0	3099	119	0
1	BR	3123	0	3099	117	0
1	BS	3135	0	3097	484	0
1	C1	3123	0	3094	355	0
1	C3	3123	0	3094	347	0
1	C4	3123	0	3094	351	0
1	C6	3123	0	3094	356	0
1	C7	3123	0	3091	520	0
1	C8	3123	0	3094	354	0
1	CD	3135	0	3097	487	0
1	CE	3123	0	3099	157	0
1	CG	3123	0	3094	356	0
1	CJ	3135	0	3097	487	0
1	CK	3135	0	3096	492	0
1	CL	3123	0	3094	358	0
1	CP	3135	0	3097	484	0
1	CQ	3123	0	3094	357	0
1	CR	3123	0	3094	355	0
1	CS	3131	0	3096	515	0
1	D1	3190	0	3161	51	0
1	D3	3190	0	3161	58	0
1	D4	3190	0	3161	54	0
1	D6	3190	0	3161	51	0
1	D7	3190	0	3161	64	0
1	D8	3190	0	3161	53	0
1	DD	3131	0	3096	501	0
1	DE	3190	0	3161	106	0
1	DG	3190	0	3161	55	0
1	DJ	3131	0	3096	510	0
1	DK	3131	0	3096	501	0
1	DL	3190	0	3161	53	0
1	DP	3131	0	3097	514	0
1	DQ	3190	0	3161	55	0
1	DR	3190	0	3161	56	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	FE	3190	0	3160	234	0
1	I1	3123	0	3094	356	0
1	I3	3123	0	3094	355	0
1	I4	3123	0	3094	358	0
1	I6	3123	0	3094	356	0
1	I7	3123	0	3094	357	0
1	I8	3123	0	3094	354	0
1	IG	3123	0	3094	356	0
1	IL	3123	0	3094	351	0
1	IQ	3123	0	3094	346	0
1	IR	3123	0	3094	358	0
1	IS	2821	0	2759	495	0
1	J1	3178	0	3145	146	0
1	J3	3178	0	3145	152	0
1	J4	3178	0	3145	148	0
1	J6	3178	0	3145	150	0
1	J7	3178	0	3145	150	0
1	J8	3178	0	3145	148	0
1	JG	3178	0	3145	150	0
1	JL	3178	0	3145	150	0
1	JQ	3178	0	3145	144	0
1	JR	3178	0	3145	147	0
1	JS	3103	0	3070	606	0
1	K1	3123	0	3099	116	0
1	K3	3123	0	3099	123	0
1	K4	3123	0	3099	118	0
1	K6	3123	0	3099	119	0
1	K7	3123	0	3099	122	0
1	K8	3123	0	3099	118	0
1	KD	3103	0	3070	603	0
1	KE	3123	0	3094	354	0
1	KG	3123	0	3099	119	0
1	KJ	3103	0	3067	636	0
1	KK	3103	0	3070	610	0
1	KL	3123	0	3099	117	0
1	KP	3103	0	3070	603	0
1	KQ	3123	0	3099	117	0
1	KR	3123	0	3099	122	0
1	KS	3135	0	3093	714	0
1	L1	3190	0	3161	53	0
1	L3	3190	0	3161	54	0
1	L4	3190	0	3161	56	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L6	3190	0	3161	49	0
1	L7	3190	0	3161	53	0
1	L8	3190	0	3161	52	0
1	LD	3135	0	3092	719	0
1	LE	3178	0	3145	151	0
1	LG	3190	0	3161	57	0
1	LJ	3135	0	3092	717	0
1	LK	3135	0	3092	714	0
1	LL	3190	0	3161	54	0
1	LP	3135	0	3093	720	0
1	LQ	3190	0	3161	57	0
1	LR	3190	0	3161	53	0
1	ME	3123	0	3099	121	0
1	NE	3190	0	3161	57	0
1	Q1	3123	0	3094	346	0
1	Q3	3123	0	3094	354	0
1	Q4	3123	0	3094	349	0
1	Q6	3123	0	3091	520	0
1	Q7	3123	0	3094	351	0
1	Q8	3123	0	3094	355	0
1	QG	3123	0	3094	353	0
1	QL	3123	0	3094	348	0
1	QQ	3123	0	3094	358	0
1	QR	3123	0	3094	357	0
1	R1	3178	0	3145	339	0
1	R3	3178	0	3145	146	0
1	R4	3178	0	3145	338	0
1	R6	3178	0	3145	146	0
1	R7	3178	0	3145	152	0
1	R8	3178	0	3145	151	0
1	RG	3178	0	3145	147	0
1	RL	3178	0	3145	147	0
1	RQ	3178	0	3145	146	0
1	RR	3178	0	3145	148	0
1	S1	3123	0	3099	159	0
1	S3	3123	0	3099	122	0
1	S4	3123	0	3099	162	0
1	S6	3123	0	3091	228	0
1	S7	3123	0	3099	120	0
1	S8	3123	0	3099	122	0
1	SE	3123	0	3094	346	0
1	SG	3123	0	3099	120	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	SL	3123	0	3099	119	0
1	SQ	3123	0	3099	119	0
1	SR	3123	0	3099	117	0
1	T1	3190	0	3160	237	0
1	T3	3190	0	3161	53	0
1	T4	3190	0	3160	240	0
1	T6	3190	0	3161	71	0
1	T7	3190	0	3161	55	0
1	T8	3190	0	3161	54	0
1	TE	3178	0	3145	149	0
1	TG	3190	0	3161	54	0
1	TL	3190	0	3161	54	0
1	TQ	3190	0	3161	55	0
1	TR	3190	0	3161	57	0
1	UE	3123	0	3099	122	0
1	VE	3190	0	3161	55	0
1	X1	3123	0	3094	353	0
1	X4	3123	0	3094	351	0
1	Y1	3178	0	3145	148	0
1	Y3	3190	0	3161	105	0
1	Y4	3178	0	3145	151	0
1	Y6	3123	0	3094	354	0
1	Y7	3123	0	3094	357	0
1	Y8	3123	0	3094	350	0
1	YG	3123	0	3091	515	0
1	YL	3123	0	3094	351	0
1	YQ	3190	0	3161	104	0
1	YR	3123	0	3094	357	0
1	Z1	3123	0	3099	115	0
1	Z4	3123	0	3099	120	0
1	Z6	3178	0	3145	150	0
1	Z7	3178	0	3145	144	0
1	Z8	3178	0	3145	145	0
1	ZG	3178	0	3145	151	0
1	ZL	3178	0	3145	142	0
1	ZR	3178	0	3145	149	0
1	a1	3190	0	3161	50	0
1	a4	3190	0	3161	52	0
1	a6	3123	0	3099	116	0
1	a7	3123	0	3099	121	0
1	a8	3123	0	3099	119	0
1	aE	3123	0	3094	354	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	aG	3123	0	3091	227	0
1	aL	3123	0	3099	119	0
1	aR	3123	0	3099	119	0
1	b3	3190	0	3161	106	0
1	b6	3190	0	3161	57	0
1	b7	3190	0	3161	52	0
1	b8	3190	0	3161	57	0
1	bE	3178	0	3145	151	0
1	bG	3190	0	3161	68	0
1	bL	3190	0	3161	53	0
1	bQ	3123	0	3094	354	0
1	bR	3190	0	3161	55	0
1	cE	3123	0	3099	124	0
1	cQ	3178	0	3145	147	0
1	dE	3190	0	3161	55	0
1	dQ	3123	0	3099	119	0
1	eQ	3190	0	3161	53	0
1	f1	3123	0	3094	350	0
1	f4	3123	0	3094	350	0
1	g1	3178	0	3145	149	0
1	g4	3178	0	3145	336	0
1	g6	3123	0	3091	518	0
1	g7	3123	0	3094	347	0
1	g8	3123	0	3091	510	0
1	gG	3123	0	3094	356	0
1	gL	3190	0	3161	109	0
1	gR	3123	0	3094	360	0
1	h1	3123	0	3099	118	0
1	h4	3123	0	3099	162	0
1	h6	3178	0	3145	150	0
1	h7	3178	0	3145	149	0
1	h8	3178	0	3145	150	0
1	hG	3178	0	3145	148	0
1	hR	3178	0	3145	336	0
1	i1	3190	0	3161	53	0
1	i4	3190	0	3160	236	0
1	i6	3123	0	3091	225	0
1	i7	3123	0	3099	124	0
1	i8	3123	0	3091	222	0
1	iG	3123	0	3099	118	0
1	iR	3123	0	3099	161	0
1	j6	3190	0	3161	70	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j7	3190	0	3161	57	0
1	j8	3190	0	3161	68	0
1	jG	3190	0	3161	55	0
1	jR	3190	0	3160	228	0
2	DS	437	0	408	22	0
2	E1	432	0	404	21	0
2	E3	432	0	404	24	0
2	E4	432	0	404	23	0
2	E6	432	0	404	20	0
2	E7	432	0	404	22	0
2	E8	432	0	404	22	0
2	ED	437	0	408	22	0
2	EE	432	0	404	24	0
2	EG	432	0	404	24	0
2	EJ	437	0	408	21	0
2	EK	437	0	408	21	0
2	EL	432	0	404	23	0
2	EP	437	0	408	22	0
2	EQ	432	0	404	22	0
2	ER	432	0	404	21	0
2	ES	437	0	407	73	0
2	F1	436	0	408	15	0
2	F3	436	0	408	20	0
2	F4	436	0	408	18	0
2	F6	436	0	408	17	0
2	F7	436	0	408	16	0
2	F8	436	0	408	18	0
2	FD	437	0	407	78	0
2	FG	436	0	408	21	0
2	FJ	437	0	407	75	0
2	FK	437	0	407	78	0
2	FL	436	0	408	19	0
2	FP	437	0	407	77	0
2	FQ	436	0	408	17	0
2	FR	436	0	408	17	0
2	FS	237	0	219	28	0
2	G1	221	0	211	5	0
2	G3	221	0	211	5	0
2	G4	221	0	211	5	0
2	G6	221	0	211	5	0
2	G7	221	0	211	5	0
2	G8	221	0	211	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	GD	237	0	219	24	0
2	GE	221	0	211	33	0
2	GG	221	0	211	5	0
2	GJ	237	0	219	23	0
2	GK	237	0	219	34	0
2	GL	221	0	211	5	0
2	GP	237	0	219	24	0
2	GQ	221	0	211	5	0
2	GR	221	0	211	5	0
2	GS	433	0	407	49	0
2	H1	435	0	396	63	0
2	H3	435	0	396	64	0
2	H4	435	0	396	63	0
2	H6	435	0	396	64	0
2	H7	435	0	396	62	0
2	H8	435	0	396	63	0
2	HD	433	0	407	47	0
2	HE	436	0	408	66	0
2	HG	435	0	396	64	0
2	HJ	433	0	407	48	0
2	HK	433	0	407	44	0
2	HL	435	0	396	64	0
2	HP	433	0	407	46	0
2	HQ	435	0	396	61	0
2	HR	435	0	396	63	0
2	IE	221	0	211	6	0
2	JE	435	0	397	82	0
2	LS	437	0	407	177	0
2	M1	432	0	404	23	0
2	M3	432	0	404	22	0
2	M4	432	0	404	23	0
2	M6	432	0	404	22	0
2	M7	432	0	404	23	0
2	M8	432	0	404	22	0
2	MD	437	0	407	203	0
2	MG	432	0	404	23	0
2	MJ	437	0	408	161	0
2	MK	437	0	407	182	0
2	ML	432	0	404	23	0
2	MP	437	0	407	168	0
2	MQ	432	0	404	24	0
2	MR	432	0	404	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	MS	437	0	408	62	0
2	N1	436	0	408	18	0
2	N3	436	0	408	17	0
2	N4	436	0	408	19	0
2	N6	436	0	408	19	0
2	N7	436	0	408	19	0
2	N8	436	0	408	20	0
2	ND	437	0	408	59	0
2	NG	436	0	408	20	0
2	NJ	437	0	408	60	0
2	NK	437	0	408	60	0
2	NL	436	0	408	18	0
2	NP	437	0	408	59	0
2	NQ	436	0	408	20	0
2	NR	436	0	408	19	0
2	O1	221	0	211	5	0
2	O3	221	0	211	5	0
2	O4	221	0	211	5	0
2	O6	221	0	211	5	0
2	O7	221	0	211	5	0
2	O8	221	0	211	5	0
2	OE	432	0	404	22	0
2	OG	221	0	211	5	0
2	OL	221	0	211	5	0
2	OQ	221	0	211	5	0
2	OR	221	0	211	5	0
2	P1	435	0	396	62	0
2	P3	435	0	396	62	0
2	P4	435	0	396	63	0
2	P6	435	0	396	62	0
2	P7	435	0	396	62	0
2	P8	435	0	396	63	0
2	PE	436	0	408	15	0
2	PG	435	0	396	62	0
2	PL	435	0	396	64	0
2	PQ	435	0	396	64	0
2	PR	435	0	396	63	0
2	QE	221	0	211	5	0
2	RE	435	0	396	64	0
2	U1	436	0	408	67	0
2	U3	432	0	404	22	0
2	U4	436	0	408	66	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	U6	432	0	404	22	0
2	U7	432	0	404	23	0
2	U8	432	0	404	23	0
2	UG	432	0	404	22	0
2	UL	432	0	404	22	0
2	UQ	432	0	404	22	0
2	UR	432	0	404	23	0
2	V1	221	0	211	5	0
2	V3	436	0	408	19	0
2	V4	221	0	211	6	0
2	V6	436	0	408	17	0
2	V7	436	0	408	18	0
2	V8	436	0	408	16	0
2	VG	436	0	408	19	0
2	VL	436	0	408	16	0
2	VQ	436	0	408	17	0
2	VR	436	0	408	18	0
2	W1	435	0	397	80	0
2	W3	221	0	211	5	0
2	W4	435	0	397	80	0
2	W6	221	0	211	5	0
2	W7	221	0	211	5	0
2	W8	221	0	211	5	0
2	WE	432	0	404	22	0
2	WG	221	0	211	5	0
2	WL	221	0	211	5	0
2	WQ	221	0	211	5	0
2	WR	221	0	211	5	0
2	X3	435	0	396	64	0
2	X6	435	0	396	62	0
2	X7	435	0	396	62	0
2	X8	435	0	396	62	0
2	XE	436	0	408	16	0
2	XG	435	0	396	62	0
2	XL	435	0	396	62	0
2	XQ	435	0	396	62	0
2	XR	435	0	396	61	0
2	YE	221	0	211	5	0
2	Z3	432	0	404	22	0
2	ZE	435	0	396	61	0
2	ZQ	432	0	404	25	0
2	a3	221	0	211	34	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	aQ	221	0	211	34	0
2	b1	432	0	404	22	0
2	b4	432	0	404	22	0
2	c1	436	0	408	17	0
2	c3	432	0	404	22	0
2	c4	436	0	408	17	0
2	c6	432	0	404	24	0
2	c7	432	0	404	23	0
2	c8	432	0	404	21	0
2	cG	432	0	404	21	0
2	cL	432	0	404	23	0
2	cR	432	0	404	23	0
2	d1	221	0	211	5	0
2	d3	221	0	211	33	0
2	d4	221	0	211	5	0
2	d6	436	0	408	18	0
2	d7	436	0	408	16	0
2	d8	436	0	408	17	0
2	dG	436	0	408	18	0
2	dL	436	0	408	18	0
2	dR	436	0	408	16	0
2	e1	435	0	396	64	0
2	e4	435	0	396	62	0
2	e6	221	0	211	5	0
2	e7	221	0	211	5	0
2	e8	221	0	211	5	0
2	eE	432	0	404	23	0
2	eG	221	0	211	5	0
2	eL	221	0	211	5	0
2	eR	221	0	211	5	0
2	f6	435	0	396	62	0
2	f7	435	0	396	63	0
2	f8	435	0	396	64	0
2	fE	436	0	408	20	0
2	fG	435	0	396	62	0
2	fL	435	0	396	63	0
2	fQ	432	0	404	23	0
2	fR	435	0	396	61	0
2	gE	221	0	211	5	0
2	gQ	436	0	408	17	0
2	hE	435	0	396	63	0
2	hL	432	0	404	24	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	hQ	221	0	211	5	0
2	iL	221	0	211	33	0
2	iQ	435	0	396	63	0
2	j1	432	0	404	22	0
2	j4	436	0	408	70	0
2	k1	436	0	408	18	0
2	k4	221	0	211	5	0
2	k6	432	0	404	22	0
2	k7	432	0	404	22	0
2	k8	432	0	404	23	0
2	kG	432	0	404	23	0
2	kR	436	0	408	69	0
2	l1	221	0	211	5	0
2	l4	435	0	397	83	0
2	l6	436	0	408	15	0
2	l7	436	0	408	17	0
2	l8	436	0	408	18	0
2	lG	436	0	408	17	0
2	lR	221	0	211	5	0
2	m1	435	0	396	65	0
2	m6	221	0	211	5	0
2	m7	221	0	211	5	0
2	m8	221	0	211	5	0
2	mG	221	0	211	5	0
2	mR	435	0	397	81	0
2	n6	435	0	396	65	0
2	n7	435	0	396	60	0
2	n8	435	0	396	63	0
2	nG	435	0	396	63	0
3	A2	2353	0	2299	307	0
3	A5	2353	0	2297	320	0
3	A9	2353	0	2297	327	0
3	AA	2353	0	2297	325	0
3	AB	2353	0	2299	335	0
3	AC	2353	0	2294	281	0
3	AF	2353	0	2297	340	0
3	AH	2353	0	2297	288	0
3	AI	2353	0	2300	287	0
3	AM	2353	0	2299	287	0
3	AN	2353	0	2299	293	0
3	AO	2353	0	2294	360	0
4	B2	1763	0	1667	182	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B5	1763	0	1667	181	0
4	B9	1763	0	1667	182	0
4	BA	1763	0	1667	180	0
4	BB	1763	0	1667	179	0
4	BC	1763	0	1667	183	0
4	BF	1763	0	1667	182	0
4	BH	1763	0	1667	180	0
4	BI	1763	0	1667	185	0
4	BM	1763	0	1667	177	0
4	BN	1763	0	1667	177	0
4	BO	1763	0	1667	180	0
5	C2	4021	0	3909	91	0
5	C5	4021	0	3909	90	0
5	C9	4021	0	3909	88	0
5	CA	4021	0	3909	90	0
5	CB	4021	0	3909	89	0
5	CC	4021	0	3909	89	0
5	CF	4021	0	3909	89	0
5	CH	4021	0	3909	90	0
5	CI	4021	0	3909	89	0
5	CM	4021	0	3909	91	0
5	CN	4021	0	3909	92	0
5	CO	4021	0	3909	91	0
5	D2	1107	0	1049	80	0
5	D5	1107	0	1049	71	0
5	D9	1107	0	1049	73	0
5	DA	1107	0	1048	85	0
5	DB	1107	0	1049	75	0
5	DC	1107	0	1049	84	0
5	DF	1107	0	1049	84	0
5	DH	1107	0	1049	80	0
5	DI	1107	0	1049	78	0
5	DM	1107	0	1049	95	0
5	DN	1107	0	1049	83	0
5	DO	1107	0	1049	79	0
5	E2	1173	0	1118	180	0
5	E5	1173	0	1118	174	0
5	E9	1173	0	1118	177	0
5	EA	1173	0	1118	177	0
5	EB	1173	0	1118	174	0
5	EC	1173	0	1118	177	0
5	EF	1173	0	1118	172	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	EH	1173	0	1118	177	0
5	EI	1173	0	1118	170	0
5	EM	1173	0	1118	178	0
5	EN	1173	0	1118	176	0
5	EO	1173	0	1118	177	0
5	F2	927	0	877	75	0
5	F5	927	0	877	73	0
5	F9	927	0	877	72	0
5	FA	927	0	877	71	0
5	FB	927	0	877	71	0
5	FC	927	0	877	74	0
5	FF	927	0	877	69	0
5	FH	927	0	877	77	0
5	FI	927	0	877	75	0
5	FM	927	0	877	71	0
5	FN	927	0	877	74	0
5	FO	927	0	877	71	0
5	N2	4021	0	3908	50	0
5	N5	4021	0	3908	49	0
5	N9	4021	0	3908	49	0
5	NA	4021	0	3908	46	0
5	NB	4021	0	3908	48	0
5	NC	4021	0	3908	48	0
5	NF	4021	0	3908	48	0
5	NH	4021	0	3908	49	0
5	NI	4021	0	3908	49	0
5	NM	4021	0	3908	49	0
5	NN	4021	0	3908	49	0
5	NO	4021	0	3908	49	0
5	O2	4012	0	3896	23	0
5	O5	4012	0	3896	22	0
5	O9	4012	0	3896	21	0
5	OA	4012	0	3896	24	0
5	OB	4012	0	3896	22	0
5	OC	4012	0	3896	22	0
5	OF	4012	0	3896	23	0
5	OH	4012	0	3896	23	0
5	OI	4012	0	3896	24	0
5	OM	4012	0	3896	23	0
5	ON	4012	0	3896	23	0
5	OO	4012	0	3896	23	0
6	G2	90	0	38	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	G5	90	0	38	0	0
6	G9	90	0	38	0	0
6	GA	90	0	38	0	0
6	GB	90	0	38	0	0
6	GC	90	0	38	0	0
6	GF	90	0	38	0	0
6	GH	90	0	38	0	0
6	GI	90	0	38	0	0
6	GM	90	0	38	0	0
6	GN	90	0	38	0	0
6	GO	90	0	38	0	0
6	H2	90	0	38	0	0
6	H5	90	0	38	0	0
6	H9	90	0	38	0	0
6	HA	90	0	38	0	0
6	HB	90	0	38	0	0
6	HC	90	0	38	0	0
6	HF	90	0	38	0	0
6	HH	90	0	38	0	0
6	HI	90	0	38	0	0
6	HM	90	0	38	0	0
6	HN	90	0	38	0	0
6	HO	90	0	38	0	0
6	I2	120	0	50	0	0
6	I5	120	0	50	0	0
6	I9	120	0	50	0	0
6	IA	120	0	50	0	0
6	IB	120	0	50	0	0
6	IC	120	0	50	0	0
6	IF	120	0	50	0	0
6	IH	120	0	50	0	0
6	II	120	0	50	0	0
6	IM	120	0	50	0	0
6	IN	120	0	50	0	0
6	IO	120	0	50	0	0
6	J2	120	0	50	0	0
6	J5	120	0	50	0	0
6	J9	120	0	50	0	0
6	JA	120	0	50	0	0
6	JB	120	0	50	0	0
6	JC	120	0	50	0	0
6	JF	120	0	50	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	JH	120	0	50	0	0
6	JI	120	0	50	0	0
6	JM	120	0	50	0	0
6	JN	120	0	50	0	0
6	JO	120	0	50	0	0
6	K2	112	0	51	1	0
6	K5	112	0	51	1	0
6	K9	112	0	51	1	0
6	KA	112	0	51	1	0
6	KB	112	0	51	1	0
6	KC	112	0	51	1	0
6	KF	112	0	51	1	0
6	KH	112	0	51	1	0
6	KI	112	0	51	1	0
6	KM	112	0	51	1	0
6	KN	112	0	51	1	0
6	KO	112	0	51	1	0
6	L2	120	0	50	0	0
6	L5	120	0	50	0	0
6	L9	120	0	50	0	0
6	LA	120	0	50	0	0
6	LB	120	0	50	0	0
6	LC	120	0	50	0	0
6	LF	120	0	50	3	0
6	LH	120	0	50	0	0
6	LI	120	0	50	0	0
6	LM	120	0	50	0	0
6	LN	120	0	50	4	0
6	LO	120	0	50	0	0
7	HS	275	0	277	2	0
7	ID	275	0	277	2	0
7	IJ	275	0	277	2	0
7	IK	275	0	277	2	0
7	IP	275	0	277	2	0
7	NS	275	0	277	2	0
7	OD	275	0	277	2	0
7	OJ	275	0	277	2	0
7	OK	275	0	277	2	0
7	OP	275	0	277	3	0
7	SD	275	0	277	1	0
7	SJ	275	0	277	1	0
7	SK	275	0	277	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	SP	275	0	277	1	0
7	SS	275	0	277	1	0
8	PD	85	0	84	1	0
8	PJ	85	0	84	1	0
8	PK	85	0	84	1	0
8	PP	85	0	84	1	0
8	PS	85	0	84	1	0
8	QD	79	0	75	2	0
8	QJ	79	0	75	2	0
8	QK	79	0	75	2	0
8	QP	79	0	75	2	0
8	QS	79	0	75	2	0
8	RD	54	0	35	0	0
8	RJ	54	0	35	0	0
8	RK	54	0	35	0	0
8	RP	54	0	35	0	0
8	RS	54	0	35	0	0
All	All	1074183	0	1048448	42116	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 20.

All (42116) 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:CA:265:LEU:CD1	5:NC:231:ASN:HB2	1.23	1.69
1:AK:310:THR:HG23	1:KP:27:HIS:CE1	1.15	1.67
1:C7:367:PRO:CG	1:LK:375:TRP:CE3	1.77	1.67
1:AD:58:ILE:HD13	3:AF:32:PHE:CZ	1.29	1.66
1:AK:310:THR:CG2	1:KP:27:HIS:HE1	1.08	1.66
1:AD:310:THR:HG23	1:KK:27:HIS:CE1	1.15	1.65
1:KJ:27:HIS:HE1	1:AP:310:THR:CG2	1.08	1.65
5:N5:231:ASN:HB2	5:CN:265:LEU:CD1	1.23	1.65
1:g6:57:LYS:CD	1:CP:143:GLN:HE22	1.08	1.65
5:C5:265:LEU:CD1	5:NI:231:ASN:HB2	1.23	1.64
5:NF:231:ASN:HB2	5:CM:265:LEU:CD1	1.23	1.64
1:KJ:27:HIS:CE1	1:AP:310:THR:HG23	1.15	1.64
1:Q6:57:LYS:CD	1:CJ:143:GLN:HE22	1.08	1.64
5:C2:265:LEU:CD1	5:N9:231:ASN:HB2	1.23	1.63
5:E9:140:ASP:CB	5:C9:139:LYS:HE2	1.15	1.63
5:EA:140:ASP:CB	5:CA:139:LYS:HE2	1.15	1.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:154:ILE:CG2	1:AK:54:LEU:CB	1.75	1.63
5:C9:265:LEU:HD13	5:NA:231:ASN:CB	1.28	1.63
5:EF:140:ASP:CB	5:CF:139:LYS:HE2	1.15	1.62
3:AC:155:GLU:HB2	1:AP:58:ILE:CD1	1.15	1.62
1:LK:47:GLU:HG2	1:KP:20:SER:CB	1.16	1.62
5:CC:265:LEU:CD1	5:NH:231:ASN:HB2	1.23	1.62
1:AD:140:PHE:HA	3:AF:29:ARG:CD	1.30	1.62
1:AD:57:LYS:CB	3:AF:154:ILE:HD12	1.22	1.61
1:Q6:367:PRO:CG	1:LJ:375:TRP:CE3	1.77	1.61
1:g8:367:PRO:CG	1:KS:375:TRP:CE3	1.77	1.61
5:NB:231:ASN:HB2	5:CF:265:LEU:CD1	1.23	1.61
5:EB:140:ASP:CB	5:CB:139:LYS:HE2	1.15	1.60
1:LD:47:GLU:HG2	1:KK:20:SER:CB	1.16	1.60
1:AJ:310:THR:CG2	1:JS:27:HIS:HE1	1.08	1.60
1:AJ:310:THR:HG23	1:JS:27:HIS:CE1	1.15	1.60
1:LD:375:TRP:CE3	1:YG:367:PRO:CG	1.77	1.60
1:AD:310:THR:CG2	1:KK:27:HIS:HE1	1.08	1.60
1:CD:143:GLN:HE22	1:YG:57:LYS:CD	1.08	1.60
1:KD:20:SER:CB	1:KS:47:GLU:HG2	1.16	1.60
1:g6:367:PRO:CG	1:LP:375:TRP:CE3	1.77	1.59
1:KD:27:HIS:CE1	1:IS:310:THR:HG23	1.15	1.59
1:LJ:47:GLU:HG2	1:JS:20:SER:CB	1.16	1.59
5:CH:265:LEU:CD1	5:NN:231:ASN:HB2	1.23	1.59
5:EM:140:ASP:CB	5:CM:139:LYS:HE2	1.15	1.59
5:NM:231:ASN:HB2	5:CO:265:LEU:CD1	1.23	1.59
5:CC:265:LEU:HD13	5:NH:231:ASN:CB	1.29	1.58
3:AA:197:VAL:HG21	5:EH:37:ASP:CG	1.16	1.58
5:E9:140:ASP:CB	5:C9:139:LYS:HB2	1.34	1.58
4:BA:33:TYR:CE1	5:EH:57:GLU:CB	1.87	1.58
1:KD:27:HIS:HE1	1:IS:310:THR:CG2	1.08	1.58
5:CI:265:LEU:HD13	5:NO:231:ASN:CB	1.28	1.58
1:KJ:20:SER:CB	1:LP:47:GLU:HG2	1.16	1.58
5:E2:37:ASP:CG	3:AF:197:VAL:HG21	1.16	1.58
5:E2:57:GLU:CB	4:BF:33:TYR:CE1	1.87	1.58
5:EI:64:TRP:CD2	4:BN:30:LEU:HB2	1.39	1.58
3:AN:104:GLN:HG3	2:MP:9:SER:CA	1.22	1.58
1:Q6:81:PHE:CD2	1:CS:139:ARG:HD2	1.39	1.57
5:E9:64:TRP:CD2	4:BB:30:LEU:HB2	1.39	1.57
5:NB:231:ASN:CB	5:CF:265:LEU:HD13	1.29	1.57
4:BC:33:TYR:CE1	5:EN:57:GLU:CB	1.87	1.57
1:g8:57:LYS:CD	1:BS:143:GLN:HE22	1.08	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A9:81:LEU:HD11	1:AK:153:LEU:CD1	1.33	1.57
4:B9:33:TYR:CE1	5:EC:57:GLU:CB	1.87	1.57
5:EI:140:ASP:CB	5:CI:139:LYS:HE2	1.15	1.57
5:EM:140:ASP:CB	5:CM:139:LYS:HB2	1.34	1.57
4:B9:30:LEU:HB2	5:EC:64:TRP:CD2	1.39	1.57
2:MJ:8:ARG:HH12	1:JS:374:HIS:CE1	1.21	1.57
1:S1:105:GLU:CB	1:LJ:109:LEU:HD23	1.35	1.57
5:CI:265:LEU:CD1	5:NO:231:ASN:HB2	1.23	1.57
5:N2:231:ASN:HB2	5:CB:265:LEU:CD1	1.23	1.56
1:i4:144:THR:C	1:CD:82:ILE:CD1	1.77	1.56
5:E5:57:GLU:CB	4:BH:33:TYR:CE1	1.87	1.56
5:C5:265:LEU:HD13	5:NI:231:ASN:CB	1.28	1.56
5:E9:57:GLU:CB	4:BB:33:TYR:CE1	1.87	1.56
3:A2:107:LEU:C	2:MD:7:MET:HE2	1.18	1.56
4:B2:30:LEU:HB2	5:EA:64:TRP:CD2	1.39	1.56
5:E5:140:ASP:CB	5:C5:139:LYS:HE2	1.15	1.56
5:C9:265:LEU:CD1	5:NA:231:ASN:HB2	1.23	1.56
5:E2:140:ASP:CB	5:C2:139:LYS:HE2	1.15	1.56
5:EI:140:ASP:CB	5:CI:139:LYS:HB2	1.34	1.56
5:CA:265:LEU:HD13	5:NC:231:ASN:CB	1.28	1.56
5:CH:265:LEU:HD13	5:NN:231:ASN:CB	1.28	1.56
5:EN:140:ASP:CB	5:CN:139:LYS:HB2	1.34	1.56
1:T1:144:THR:C	1:CJ:82:ILE:CD1	1.77	1.56
5:C2:265:LEU:HD13	5:N9:231:ASN:CB	1.28	1.56
5:EB:37:ASP:CG	3:AM:197:VAL:HG21	1.16	1.56
4:BI:33:TYR:CE1	5:EM:57:GLU:CB	1.87	1.56
2:MK:8:ARG:HH12	1:KP:374:HIS:CE1	1.21	1.56
5:EO:140:ASP:CB	5:CO:139:LYS:HE2	1.15	1.56
4:B2:33:TYR:CE1	5:EA:57:GLU:CB	1.87	1.55
1:Q6:367:PRO:HG3	1:LJ:375:TRP:CZ3	1.41	1.55
5:EH:140:ASP:CB	5:CH:139:LYS:HB2	1.34	1.55
5:EC:140:ASP:CB	5:CC:139:LYS:HB2	1.34	1.55
5:EC:140:ASP:CB	5:CC:139:LYS:HE2	1.15	1.55
3:A2:197:VAL:HG21	5:EA:37:ASP:CG	1.16	1.55
3:A5:112:ILE:HG23	2:MJ:27:ASN:CG	1.17	1.55
1:LD:375:TRP:CZ3	1:YG:367:PRO:HG3	1.41	1.55
4:B5:30:LEU:HB2	5:EO:64:TRP:CD2	1.39	1.55
5:EB:64:TRP:CD2	4:BM:30:LEU:HB2	1.39	1.55
1:KD:374:HIS:CE1	2:LS:8:ARG:HH12	1.21	1.55
5:EF:57:GLU:CB	4:BO:33:TYR:CE1	1.87	1.55
5:EF:64:TRP:CD2	4:BO:30:LEU:HB2	1.39	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EF:140:ASP:CA	5:CF:139:LYS:HB2	1.14	1.55
5:EH:140:ASP:CB	5:CH:139:LYS:HE2	1.15	1.55
2:MJ:2:TYR:CE2	1:JS:153:LEU:HD11	1.41	1.55
5:N5:231:ASN:CB	5:CN:265:LEU:HD13	1.28	1.55
1:LD:47:GLU:CG	1:KK:20:SER:HB2	1.09	1.55
5:EI:57:GLU:CB	4:BN:33:TYR:CE1	1.87	1.55
1:CK:82:ILE:HD11	1:jR:144:THR:C	1.31	1.55
5:N2:231:ASN:CB	5:CB:265:LEU:HD13	1.28	1.54
1:S4:105:GLU:CB	1:KS:109:LEU:HD23	1.35	1.54
4:B5:33:TYR:CE1	5:EO:57:GLU:CB	1.87	1.54
5:E9:140:ASP:CA	5:C9:139:LYS:HB2	1.14	1.54
5:EF:140:ASP:CB	5:CF:139:LYS:HB2	1.34	1.54
1:g6:81:PHE:CD2	1:DJ:139:ARG:HD2	1.39	1.54
5:NM:231:ASN:CB	5:CO:265:LEU:HD13	1.28	1.54
5:E2:64:TRP:CD2	4:BF:30:LEU:HB2	1.39	1.54
1:B7:57:LYS:CE	1:DP:143:GLN:HE22	1.20	1.54
4:BC:30:LEU:HB2	5:EN:64:TRP:CD2	1.39	1.54
1:CE:105:GLU:CB	1:LP:109:LEU:HD23	1.35	1.54
5:NF:231:ASN:CB	5:CM:265:LEU:HD13	1.29	1.54
1:C7:57:LYS:CD	1:CK:143:GLN:HE22	1.08	1.54
1:C7:367:PRO:HG3	1:LK:375:TRP:CZ3	1.41	1.54
1:g8:367:PRO:HG3	1:KS:375:TRP:CZ3	1.41	1.54
4:BA:30:LEU:HB2	5:EH:64:TRP:CD2	1.39	1.54
1:YG:81:PHE:CD2	1:DK:139:ARG:HD2	1.39	1.54
5:EA:140:ASP:CA	5:CA:139:LYS:HB2	1.14	1.54
5:EB:57:GLU:CB	4:BM:33:TYR:CE1	1.87	1.54
4:BC:33:TYR:CZ	5:EN:57:GLU:CB	1.91	1.54
1:C7:81:PHE:CD2	1:DP:139:ARG:HD2	1.39	1.53
1:BP:109:LEU:HD11	1:hR:105:GLU:C	1.28	1.53
5:E2:140:ASP:CA	5:C2:139:LYS:HB2	1.14	1.53
1:KD:20:SER:HB2	1:KS:47:GLU:CG	1.09	1.53
5:E2:140:ASP:CB	5:C2:139:LYS:HB2	1.34	1.53
5:E5:37:ASP:CG	3:AH:197:VAL:HG21	1.16	1.53
1:LD:375:TRP:CZ3	1:YG:367:PRO:CG	1.91	1.53
1:KJ:153:LEU:HD11	2:MP:2:TYR:CE2	1.41	1.53
1:LK:47:GLU:CG	1:KP:20:SER:HB2	1.09	1.53
2:MK:2:TYR:CE2	1:KP:153:LEU:HD11	1.41	1.53
5:EN:140:ASP:CB	5:CN:139:LYS:HE2	1.15	1.53
5:E2:57:GLU:CB	4:BF:33:TYR:CZ	1.91	1.53
1:i6:57:LYS:CE	1:DJ:143:GLN:HE22	1.20	1.53
3:AC:155:GLU:CB	1:AP:58:ILE:HD11	1.08	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:47:GLU:CG	1:JS:20:SER:HB2	1.09	1.53
2:MD:8:ARG:HH12	1:KK:374:HIS:CE1	1.21	1.53
3:AO:154:ILE:HA	1:IS:145:LEU:CD2	1.10	1.53
1:Q6:367:PRO:CG	1:LJ:375:TRP:CZ3	1.91	1.52
3:A9:154:ILE:HG13	1:AK:145:LEU:CD1	1.39	1.52
3:A9:154:ILE:CA	1:AK:145:LEU:HD11	1.27	1.52
3:AI:197:VAL:HG21	5:EM:37:ASP:CG	1.16	1.52
3:AO:36:LEU:HD22	1:IS:145:LEU:CD1	1.36	1.52
3:AO:154:ILE:CA	1:IS:145:LEU:HD22	1.37	1.52
5:EA:140:ASP:CB	5:CA:139:LYS:HB2	1.34	1.52
1:CK:82:ILE:CD1	1:jR:144:THR:C	1.77	1.52
1:LK:109:LEU:HD21	1:iR:105:GLU:C	1.10	1.52
1:AP:62:LEU:CB	1:KP:88:GLU:CB	1.87	1.52
1:h4:105:GLU:C	1:LD:109:LEU:HD21	1.10	1.52
3:A5:197:VAL:HG21	5:EO:37:ASP:CG	1.16	1.52
1:FE:144:THR:C	1:CP:82:ILE:CD1	1.77	1.52
5:EF:57:GLU:CB	4:BO:33:TYR:CZ	1.91	1.52
5:EI:140:ASP:CA	5:CI:139:LYS:HB2	1.14	1.52
3:A9:197:VAL:HG21	5:EC:37:ASP:CG	1.16	1.52
4:BA:33:TYR:CZ	5:EH:57:GLU:CB	1.91	1.52
5:EB:140:ASP:CB	5:CB:139:LYS:HB2	1.34	1.52
3:AC:197:VAL:HG21	5:EN:37:ASP:CG	1.16	1.52
1:g6:367:PRO:CG	1:LP:375:TRP:CZ3	1.91	1.52
5:EB:57:GLU:CB	4:BM:33:TYR:CZ	1.91	1.52
1:KJ:20:SER:HB2	1:LP:47:GLU:CG	1.09	1.52
1:h4:105:GLU:CB	1:LD:109:LEU:HD23	1.35	1.51
1:i4:374:HIS:CD2	2:HD:8:ARG:HH12	1.27	1.51
5:E5:57:GLU:CB	4:BH:33:TYR:CZ	1.91	1.51
1:g8:81:PHE:CD2	1:DD:139:ARG:HD2	1.39	1.51
1:KJ:374:HIS:CE1	2:MP:8:ARG:HH12	1.21	1.51
3:AM:112:ILE:HD12	2:LS:17:ASP:CB	1.10	1.51
4:B5:33:TYR:CZ	5:EO:57:GLU:CB	1.91	1.51
5:E5:64:TRP:CD2	4:BH:30:LEU:HB2	1.39	1.51
5:E5:140:ASP:CB	5:C5:139:LYS:HB2	1.34	1.51
1:i8:144:THR:N	1:BD:82:ILE:CD1	1.72	1.51
1:KD:80:ASP:CG	3:AF:65:ASN:ND2	1.67	1.51
5:EH:140:ASP:CA	5:CH:139:LYS:HB2	1.14	1.51
5:EO:140:ASP:CB	5:CO:139:LYS:HB2	1.34	1.51
1:KD:153:LEU:HD11	2:LS:2:TYR:CE2	1.41	1.51
1:AK:62:LEU:CB	1:KK:88:GLU:CB	1.87	1.51
5:EF:37:ASP:CG	3:AO:197:VAL:HG21	1.16	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AI:112:ILE:CG2	2:MJ:5:ASN:C	1.83	1.51
5:EI:57:GLU:HB2	4:BN:33:TYR:CZ	1.45	1.51
1:R1:105:GLU:C	1:AS:109:LEU:HD11	1.28	1.51
5:E5:57:GLU:HB2	4:BH:33:TYR:CE1	1.45	1.51
1:AD:62:LEU:CB	1:KD:88:GLU:CB	1.87	1.51
1:FE:374:HIS:CD2	2:HP:8:ARG:HH12	1.27	1.51
1:aG:57:LYS:CE	1:DK:143:GLN:HE22	1.20	1.51
4:BI:33:TYR:CZ	5:EM:57:GLU:CB	1.91	1.51
1:DJ:82:ILE:CD1	1:LP:144:THR:N	1.73	1.51
1:YQ:81:PHE:CE2	1:AS:139:ARG:HD3	1.45	1.51
4:B9:33:TYR:CZ	5:EC:57:GLU:HB2	1.45	1.50
4:B9:33:TYR:CZ	5:EC:57:GLU:CB	1.91	1.50
1:DD:82:ILE:CD1	1:KS:144:THR:N	1.73	1.50
5:DO:25:ARG:HH21	1:CS:100:ASP:CG	1.15	1.50
1:DE:81:PHE:CE2	1:BP:139:ARG:HD3	1.45	1.50
5:EI:37:ASP:CG	3:AN:197:VAL:HG21	1.16	1.50
1:Y3:81:PHE:CE2	1:BK:139:ARG:HD3	1.45	1.50
1:g6:20:SER:CB	1:CP:47:GLU:HG2	1.42	1.50
1:g6:367:PRO:HG3	1:LP:375:TRP:CZ3	1.41	1.50
1:CD:265:ASP:OD2	2:ED:41:TYR:CD1	1.65	1.50
1:KD:27:HIS:CG	1:IS:312:PRO:HD3	1.47	1.50
3:AH:151:ASN:CA	1:AP:135:ASN:ND2	1.70	1.50
5:EI:57:GLU:CB	4:BN:33:TYR:CZ	1.91	1.50
1:LJ:144:THR:N	1:CS:82:ILE:CD1	1.73	1.50
1:IS:62:LEU:CB	1:JS:88:GLU:CB	1.87	1.50
1:R4:105:GLU:C	1:BD:109:LEU:HD11	1.28	1.50
5:E5:140:ASP:HB3	5:C5:139:LYS:CE	1.41	1.50
1:LK:144:THR:N	1:DP:82:ILE:CD1	1.73	1.50
1:CE:105:GLU:C	1:LP:109:LEU:HD21	1.10	1.50
1:KJ:80:ASP:HB3	3:AN:64:GLN:C	1.30	1.50
2:HK:8:ARG:HH12	1:jR:374:HIS:CD2	1.27	1.50
1:LK:109:LEU:HD23	1:iR:105:GLU:CB	1.35	1.50
4:B2:33:TYR:CZ	5:EA:57:GLU:CB	1.91	1.50
5:EH:140:ASP:HB3	5:CH:139:LYS:CE	1.41	1.50
4:BI:30:LEU:HB2	5:EM:64:TRP:CD2	1.39	1.50
1:AK:312:PRO:HD3	1:KP:27:HIS:CG	1.47	1.50
3:AM:112:ILE:CD1	2:LS:17:ASP:HB3	1.39	1.50
1:R1:116:MET:CE	1:CJ:54:LEU:HD21	1.43	1.49
1:S6:144:THR:N	1:AS:82:ILE:CD1	1.72	1.49
1:i6:57:LYS:HD2	1:DJ:143:GLN:CD	1.07	1.49
1:C7:20:SER:CB	1:CK:47:GLU:HG2	1.42	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i8:57:LYS:HD2	1:DD:143:GLN:CD	1.07	1.49
5:E9:57:GLU:CB	4:BB:33:TYR:CZ	1.91	1.49
3:AA:113:TYR:CD2	2:MK:7:MET:HE2	1.40	1.49
5:EB:140:ASP:HB3	5:CB:139:LYS:CE	1.41	1.49
2:MD:2:TYR:CE2	1:KK:153:LEU:HD11	1.41	1.49
1:S1:105:GLU:C	1:LJ:109:LEU:HD21	1.10	1.49
1:T1:374:HIS:CD2	2:HJ:8:ARG:HH12	1.27	1.49
1:i6:144:THR:N	1:BJ:82:ILE:CD1	1.72	1.49
5:E9:57:GLU:HB2	4:BB:33:TYR:CZ	1.46	1.49
1:aG:144:THR:N	1:BK:82:ILE:CD1	1.73	1.49
3:AO:154:ILE:CA	1:IS:145:LEU:CD2	1.88	1.49
5:E2:57:GLU:HB2	4:BF:33:TYR:CE1	1.44	1.49
5:E2:140:ASP:HB3	5:C2:139:LYS:CE	1.41	1.49
1:b3:81:PHE:CE2	1:BD:139:ARG:HD3	1.45	1.49
1:S4:105:GLU:C	1:KS:109:LEU:HD21	1.10	1.49
1:CJ:265:ASP:OD2	2:EJ:41:TYR:CD1	1.65	1.49
1:CP:265:ASP:OD2	2:EP:41:TYR:CD1	1.65	1.49
1:T4:144:THR:C	1:BS:82:ILE:CD1	1.77	1.49
4:B9:33:TYR:CE1	5:EC:57:GLU:HB2	1.45	1.49
3:AB:151:ASN:N	1:AD:145:LEU:CD1	1.73	1.49
4:B2:33:TYR:CZ	5:EA:57:GLU:HB2	1.45	1.49
5:E2:57:GLU:HB2	4:BF:33:TYR:CZ	1.45	1.49
1:T4:374:HIS:CD2	2:GS:8:ARG:HH12	1.27	1.49
1:BE:105:GLU:C	1:BJ:109:LEU:HD11	1.28	1.49
3:A9:154:ILE:N	1:AK:145:LEU:CD1	1.74	1.48
2:ND:15:TYR:CE2	1:YG:148:ALA:HB1	1.47	1.48
1:Q6:148:ALA:HB1	2:NJ:15:TYR:CE2	1.47	1.48
3:A9:154:ILE:N	1:AK:145:LEU:HD11	1.16	1.48
1:AD:312:PRO:HD3	1:KK:27:HIS:CG	1.47	1.48
1:S6:57:LYS:CE	1:CS:143:GLN:HE22	1.20	1.48
5:E9:37:ASP:CG	3:AB:197:VAL:HG21	1.16	1.48
5:EF:140:ASP:HB3	5:CF:139:LYS:CE	1.41	1.48
1:AJ:62:LEU:CB	1:KJ:88:GLU:CB	1.87	1.48
3:AM:112:ILE:CB	2:LS:19:ARG:H	1.25	1.48
1:f1:208:LEU:HD11	1:f1:391:ILE:CD1	1.44	1.48
1:Q6:208:LEU:HD11	1:Q6:391:ILE:CD1	1.44	1.48
1:S6:57:LYS:HD2	1:CS:143:GLN:CD	1.07	1.48
1:g6:20:SER:HB2	1:CP:47:GLU:CG	1.43	1.48
1:B7:57:LYS:HD2	1:DP:143:GLN:CD	1.07	1.48
1:g8:20:SER:CB	1:BS:47:GLU:HG2	1.42	1.48
1:BJ:139:ARG:HD3	1:gL:81:PHE:CE2	1.45	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IL:208:LEU:HD11	1:IL:391:ILE:CD1	1.44	1.48
1:QR:208:LEU:HD11	1:QR:391:ILE:CD1	1.44	1.48
3:A5:112:ILE:CB	2:MJ:27:ASN:HD21	1.25	1.48
1:I8:208:LEU:HD11	1:I8:391:ILE:CD1	1.44	1.48
1:i8:57:LYS:CE	1:DD:143:GLN:HE22	1.20	1.48
5:E9:57:GLU:HB2	4:BB:33:TYR:CE1	1.45	1.48
1:CD:47:GLU:CG	1:YG:20:SER:HB2	1.43	1.48
4:B5:33:TYR:CZ	5:EO:57:GLU:HB2	1.45	1.47
1:Y6:208:LEU:HD11	1:Y6:391:ILE:CD1	1.44	1.47
1:gG:208:LEU:HD11	1:gG:391:ILE:CD1	1.44	1.47
1:YL:208:LEU:HD11	1:YL:391:ILE:CD1	1.44	1.47
5:EO:140:ASP:CA	5:CO:139:LYS:HB2	1.14	1.47
1:CR:208:LEU:HD11	1:CR:391:ILE:CD1	1.44	1.47
3:A2:33:ASN:HD22	1:AK:58:ILE:CG1	1.28	1.47
3:A2:108:THR:N	2:MD:7:MET:CE	1.72	1.47
1:C7:148:ALA:HB1	2:NK:15:TYR:CE2	1.47	1.47
5:EC:140:ASP:CA	5:CC:139:LYS:HB2	1.14	1.47
1:DD:304:GLN:HE21	1:KS:28:ASP:CB	1.28	1.47
1:AE:208:LEU:HD11	1:AE:391:ILE:CD1	1.44	1.47
1:AK:62:LEU:HB2	1:KK:88:GLU:CB	1.00	1.47
1:bQ:208:LEU:HD11	1:bQ:391:ILE:CD1	1.44	1.47
1:g6:148:ALA:HB1	2:NP:15:TYR:CE2	1.47	1.47
1:g8:367:PRO:CG	1:KS:375:TRP:CZ3	1.91	1.47
5:EC:140:ASP:HB3	5:CC:139:LYS:CE	1.41	1.47
1:LJ:28:ASP:CB	1:CS:304:GLN:HE21	1.28	1.47
5:EO:140:ASP:HB3	5:CO:139:LYS:CE	1.41	1.47
1:AP:62:LEU:HB2	1:KP:88:GLU:CB	1.00	1.47
3:A2:33:ASN:CG	1:AK:58:ILE:HD11	1.34	1.47
1:T4:144:THR:C	1:BS:82:ILE:HD11	1.32	1.47
1:B7:144:THR:N	1:BP:82:ILE:CD1	1.73	1.47
1:Q8:208:LEU:HD11	1:Q8:391:ILE:CD1	1.44	1.47
1:g8:20:SER:HB2	1:BS:47:GLU:CG	1.43	1.47
1:g8:148:ALA:HB1	2:MS:15:TYR:CE2	1.47	1.47
5:EM:140:ASP:HB3	5:CM:139:LYS:CE	1.41	1.47
5:EN:140:ASP:HB3	5:CN:139:LYS:CE	1.41	1.47
1:BS:265:ASP:OD2	2:DS:41:TYR:CD1	1.65	1.47
1:I3:208:LEU:HD11	1:I3:391:ILE:CD1	1.44	1.47
1:AD:62:LEU:HB2	1:KD:88:GLU:CB	1.00	1.47
1:AD:120:LEU:HD11	1:KK:55:PHE:CD1	1.50	1.47
1:aG:57:LYS:HD2	1:DK:143:GLN:CD	1.07	1.47
1:AD:58:ILE:CD1	3:AF:32:PHE:HZ	1.28	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:144:THR:N	1:DK:82:ILE:CD1	1.73	1.46
5:EI:140:ASP:HB3	5:CI:139:LYS:CE	1.41	1.46
1:CK:265:ASP:OD2	2:EK:41:TYR:CD1	1.65	1.46
1:Q3:208:LEU:HD11	1:Q3:391:ILE:CD1	1.44	1.46
1:g6:208:LEU:HD11	1:g6:391:ILE:CD1	1.44	1.46
1:Y7:208:LEU:HD11	1:Y7:391:ILE:CD1	1.44	1.46
1:KD:55:PHE:CD1	1:IS:120:LEU:HD11	1.50	1.46
1:KE:208:LEU:HD11	1:KE:391:ILE:CD1	1.44	1.46
3:AH:112:ILE:N	2:MP:19:ARG:HH21	1.00	1.46
3:AH:151:ASN:CB	1:AP:135:ASN:ND2	1.76	1.46
1:KJ:27:HIS:CG	1:AP:312:PRO:HD3	1.47	1.46
1:Q1:208:LEU:HD11	1:Q1:391:ILE:CD1	1.44	1.46
1:X1:208:LEU:HD11	1:X1:391:ILE:CD1	1.44	1.46
1:C6:208:LEU:HD11	1:C6:391:ILE:CD1	1.44	1.46
1:Q6:20:SER:CB	1:CJ:47:GLU:HG2	1.42	1.46
1:S6:144:THR:CA	1:AS:82:ILE:CD1	1.93	1.46
1:C7:208:LEU:HD11	1:C7:391:ILE:CD1	1.44	1.46
3:AA:106:ARG:CB	2:MK:19:ARG:HG3	1.24	1.46
5:EB:57:GLU:HB2	4:BM:33:TYR:CZ	1.46	1.46
4:BI:33:TYR:CZ	5:EM:57:GLU:HB2	1.45	1.46
1:CK:150:ASN:ND2	2:kR:1:MET:H3	0.97	1.46
1:IS:62:LEU:HB2	1:JS:88:GLU:CB	1.00	1.46
3:A2:112:ILE:HG13	2:MD:5:ASN:CB	1.45	1.46
1:f4:208:LEU:HD11	1:f4:391:ILE:CD1	1.44	1.46
1:i6:144:THR:CA	1:BJ:82:ILE:CD1	1.93	1.46
5:E9:140:ASP:HB3	5:C9:139:LYS:CE	1.41	1.46
1:QG:208:LEU:HD11	1:QG:391:ILE:CD1	1.44	1.46
1:QL:208:LEU:HD11	1:QL:391:ILE:CD1	1.44	1.46
5:EN:140:ASP:CA	5:CN:139:LYS:HB2	1.14	1.46
1:C1:208:LEU:HD11	1:C1:391:ILE:CD1	1.44	1.46
1:R4:116:MET:CE	1:BS:54:LEU:HD21	1.43	1.46
1:g4:105:GLU:C	1:BK:109:LEU:HD11	1.28	1.46
1:Y8:208:LEU:HD11	1:Y8:391:ILE:CD1	1.44	1.46
4:BC:33:TYR:CZ	5:EN:57:GLU:HB2	1.45	1.46
5:EC:140:ASP:CB	5:CC:139:LYS:CB	1.94	1.46
2:HE:1:MET:H3	1:CP:150:ASN:ND2	0.96	1.46
1:LK:28:ASP:CB	1:DP:304:GLN:HE21	1.28	1.46
1:Q4:208:LEU:HD11	1:Q4:391:ILE:CD1	1.44	1.45
1:i8:144:THR:CA	1:BD:82:ILE:CD1	1.93	1.45
1:AJ:312:PRO:HD3	1:JS:27:HIS:CG	1.47	1.45
1:KJ:78:GLU:CD	3:AN:81:LEU:HD11	1.05	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QQ:208:LEU:HD11	1:QQ:391:ILE:CD1	1.44	1.45
1:IR:208:LEU:HD11	1:IR:391:ILE:CD1	1.44	1.45
5:E5:140:ASP:CA	5:C5:139:LYS:HB2	1.14	1.45
1:g8:45:MET:HB2	1:BS:19:LYS:CG	1.29	1.45
4:BC:33:TYR:CE1	5:EN:57:GLU:HB2	1.45	1.45
1:BE:116:MET:CE	1:CP:54:LEU:HD21	1.43	1.45
5:EF:57:GLU:HB2	4:BO:33:TYR:CE1	1.45	1.45
3:AI:113:TYR:C	2:MJ:5:ASN:HD22	1.25	1.45
1:IQ:208:LEU:HD11	1:IQ:391:ILE:CD1	1.44	1.45
5:E2:140:ASP:CB	5:C2:139:LYS:CB	1.94	1.45
5:E5:57:GLU:HB2	4:BH:33:TYR:CZ	1.45	1.45
1:CD:47:GLU:HG2	1:YG:20:SER:CB	1.42	1.45
4:BI:33:TYR:CE1	5:EM:57:GLU:HB2	1.45	1.45
1:C3:208:LEU:HD11	1:C3:391:ILE:CD1	1.44	1.45
1:C7:367:PRO:CG	1:LK:375:TRP:CZ3	1.91	1.45
3:AA:115:ILE:CG1	2:MK:7:MET:HE3	1.46	1.45
1:KD:372:VAL:CA	2:LS:11:MET:HE1	1.20	1.45
1:DJ:304:GLN:HE21	1:LP:28:ASP:CB	1.28	1.45
1:AK:120:LEU:HD11	1:KP:55:PHE:CD1	1.50	1.45
1:I1:208:LEU:HD11	1:I1:391:ILE:CD1	1.44	1.45
1:C7:20:SER:HB2	1:CK:47:GLU:CG	1.43	1.45
1:Q7:208:LEU:HD11	1:Q7:391:ILE:CD1	1.44	1.45
3:AA:114:PHE:HD1	2:MK:8:ARG:CB	1.29	1.45
5:EA:140:ASP:CB	5:CA:139:LYS:CB	1.94	1.45
5:EA:140:ASP:HB3	5:CA:139:LYS:CE	1.41	1.45
1:AJ:62:LEU:HB2	1:KJ:88:GLU:CB	1.00	1.45
1:LJ:45:MET:CB	1:JS:14:VAL:HG23	1.37	1.45
1:Q6:31:LYS:HG3	1:LJ:314:GLY:CA	1.47	1.44
1:C8:208:LEU:HD11	1:C8:391:ILE:CD1	1.44	1.44
1:C4:208:LEU:HD11	1:C4:391:ILE:CD1	1.44	1.44
5:EH:140:ASP:CB	5:CH:139:LYS:CB	1.94	1.44
4:B2:33:TYR:CE1	5:EA:57:GLU:HB2	1.45	1.44
1:X4:208:LEU:HD11	1:X4:391:ILE:CD1	1.44	1.44
1:g4:116:MET:CE	1:CD:54:LEU:HD21	1.43	1.44
1:g8:208:LEU:HD11	1:g8:391:ILE:CD1	1.44	1.44
1:SE:208:LEU:HD11	1:SE:391:ILE:CD1	1.44	1.44
5:EM:140:ASP:CB	5:CM:139:LYS:CB	1.94	1.44
1:g7:208:LEU:HD11	1:g7:391:ILE:CD1	1.44	1.44
4:BA:33:TYR:CZ	5:EH:57:GLU:HB2	1.45	1.44
1:YG:208:LEU:HD11	1:YG:391:ILE:CD1	1.44	1.44
3:AI:104:GLN:HE21	2:MJ:19:ARG:CB	1.29	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:55:PHE:CD1	1:AP:120:LEU:HD11	1.50	1.44
1:LJ:25:PHE:CA	1:AS:99:MET:O	1.66	1.44
1:CQ:208:LEU:HD11	1:CQ:391:ILE:CD1	1.44	1.44
1:Q6:20:SER:HB2	1:CJ:47:GLU:CG	1.43	1.44
1:C7:31:LYS:HG3	1:LK:314:GLY:CA	1.47	1.44
1:DJ:82:ILE:HD13	1:LP:144:THR:N	1.12	1.44
1:CK:54:LEU:HD21	1:hR:116:MET:CE	1.43	1.44
1:B7:144:THR:CA	1:BP:82:ILE:CD1	1.93	1.43
1:LD:25:PHE:CA	1:BK:99:MET:O	1.66	1.43
1:LD:144:THR:N	1:DK:82:ILE:HD13	1.12	1.43
5:EF:140:ASP:CB	5:CF:139:LYS:CB	1.94	1.43
1:aG:144:THR:CA	1:BK:82:ILE:CD1	1.93	1.43
1:CL:208:LEU:HD11	1:CL:391:ILE:CD1	1.44	1.43
1:YR:208:LEU:HD11	1:YR:391:ILE:CD1	1.44	1.43
1:I4:208:LEU:HD11	1:I4:391:ILE:CD1	1.44	1.43
1:LD:28:ASP:CB	1:DK:304:GLN:HE21	1.28	1.43
1:aE:208:LEU:HD11	1:aE:391:ILE:CD1	1.44	1.43
1:IG:208:LEU:HD11	1:IG:391:ILE:CD1	1.44	1.43
3:A2:154:ILE:CB	1:AK:54:LEU:CB	1.97	1.43
1:T4:365:HIS:NE2	2:GS:10:MET:CE	1.82	1.43
1:I7:208:LEU:HD11	1:I7:391:ILE:CD1	1.44	1.43
4:BA:33:TYR:CE1	5:EH:57:GLU:HB2	1.45	1.43
1:KD:45:MET:CB	1:KS:14:VAL:O	1.66	1.43
1:LD:14:VAL:O	1:KK:45:MET:CB	1.66	1.43
5:EI:140:ASP:CB	5:CI:139:LYS:CB	1.94	1.43
5:EO:140:ASP:CB	5:CO:139:LYS:CB	1.94	1.43
1:T1:144:THR:C	1:CJ:82:ILE:HD11	1.32	1.43
1:T1:365:HIS:NE2	2:HJ:10:MET:CE	1.82	1.43
5:E2:55:LEU:HD22	5:EB:21:ILE:CG2	1.49	1.43
5:E9:140:ASP:CB	5:C9:139:LYS:CB	1.94	1.43
5:EB:55:LEU:HD22	5:EF:21:ILE:CG2	1.49	1.43
3:AH:112:ILE:HD12	2:MP:20:LEU:CD2	1.45	1.43
1:LD:45:MET:H	1:KK:14:VAL:CG2	1.32	1.43
1:g6:31:LYS:HG3	1:LP:314:GLY:CA	1.47	1.42
1:i6:57:LYS:CG	1:DJ:143:GLN:NE2	1.83	1.42
1:B7:57:LYS:CG	1:DP:143:GLN:NE2	1.82	1.42
1:i8:57:LYS:CG	1:DD:143:GLN:NE2	1.83	1.42
1:CG:208:LEU:HD11	1:CG:391:ILE:CD1	1.44	1.42
3:AM:112:ILE:HD12	2:LS:17:ASP:CG	1.42	1.42
1:gR:208:LEU:HD11	1:gR:391:ILE:CD1	1.44	1.42
1:i4:144:THR:C	1:CD:82:ILE:HD11	1.32	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EA:21:ILE:CG2	5:EC:55:LEU:HD22	1.49	1.42
5:CA:265:LEU:HD22	5:NC:231:ASN:CG	1.44	1.42
5:EB:57:GLU:HB2	4:BM:33:TYR:CE1	1.45	1.42
5:EB:140:ASP:CB	5:CB:139:LYS:CB	1.94	1.42
1:AJ:120:LEU:HD11	1:JS:55:PHE:CD1	1.50	1.42
1:LK:14:VAL:O	1:KP:45:MET:CB	1.66	1.42
3:AO:64:GLN:HG2	1:IS:150:ASN:N	1.33	1.42
3:A2:210:SER:OG	4:BA:249:GLN:CB	1.67	1.42
4:B2:249:GLN:CB	3:AF:210:SER:OG	1.67	1.42
1:i4:365:HIS:NE2	2:HD:10:MET:CE	1.82	1.42
1:I6:208:LEU:HD11	1:I6:391:ILE:CD1	1.44	1.42
1:Q6:57:LYS:HD2	1:CJ:143:GLN:NE2	1.11	1.42
3:A9:154:ILE:CG1	1:AK:145:LEU:HD12	1.47	1.42
3:A9:210:SER:OG	4:BC:249:GLN:CB	1.67	1.42
1:KD:133:LEU:HB2	2:LS:11:MET:SD	1.60	1.42
1:AK:223:GLY:HA2	1:KP:53:TYR:CE1	1.55	1.42
5:E2:21:ILE:CG2	5:E9:55:LEU:HD22	1.49	1.42
1:g6:45:MET:HB2	1:CP:19:LYS:CG	1.29	1.42
3:AA:114:PHE:HB2	2:MK:8:ARG:C	1.44	1.42
1:DD:82:ILE:HD13	1:KS:144:THR:N	1.12	1.42
5:EF:57:GLU:HB2	4:BO:33:TYR:CZ	1.46	1.42
1:LJ:144:THR:N	1:CS:82:ILE:HD13	1.12	1.42
1:KK:105:GLU:O	1:DP:109:LEU:CD1	1.67	1.42
1:LK:25:PHE:CA	1:BP:99:MET:O	1.66	1.42
3:AN:104:GLN:CG	2:MP:9:SER:HA	0.96	1.42
3:AA:210:SER:OG	4:BH:249:GLN:CB	1.67	1.42
3:AC:210:SER:OG	4:BN:249:GLN:CB	1.67	1.42
2:HE:1:MET:N	1:CP:150:ASN:HD21	1.17	1.42
2:HK:10:MET:CE	1:jR:365:HIS:NE2	1.82	1.42
5:EN:140:ASP:CB	5:CN:139:LYS:CB	1.94	1.42
3:A2:108:THR:N	2:MD:7:MET:HE2	1.17	1.41
5:E2:140:ASP:CB	5:C2:139:LYS:CE	1.97	1.41
2:U4:1:MET:N	1:BS:150:ASN:HD21	1.17	1.41
3:A5:210:SER:OG	4:BO:249:GLN:CB	1.67	1.41
5:E5:140:ASP:CB	5:C5:139:LYS:CB	1.94	1.41
1:DD:109:LEU:CD1	1:JS:105:GLU:O	1.67	1.41
3:A2:107:LEU:C	2:MD:7:MET:CE	1.91	1.41
1:C7:366:ASN:HA	1:AK:108:MET:SD	1.61	1.41
3:A9:154:ILE:CG1	1:AK:145:LEU:CD1	1.94	1.41
5:E9:21:ILE:CG2	5:EA:55:LEU:HD22	1.49	1.41
5:NF:231:ASN:CG	5:CM:265:LEU:HD22	1.44	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aG:57:LYS:CG	1:DK:143:GLN:NE2	1.83	1.41
1:LJ:14:VAL:O	1:JS:45:MET:CB	1.66	1.41
1:LJ:45:MET:H	1:JS:14:VAL:CG2	1.32	1.41
5:EM:55:LEU:HD22	5:EO:21:ILE:CG2	1.49	1.41
1:AD:223:GLY:HA2	1:KK:53:TYR:CE1	1.55	1.41
1:KD:105:GLU:O	1:DK:109:LEU:CD1	1.67	1.41
1:LD:314:GLY:CA	1:YG:31:LYS:HG3	1.47	1.41
5:EH:21:ILE:CG2	5:EN:55:LEU:HD22	1.49	1.41
5:CI:265:LEU:HD22	5:NO:231:ASN:CG	1.44	1.41
1:KJ:14:VAL:CG2	1:LP:45:MET:H	1.32	1.41
2:MJ:11:MET:SD	1:JS:133:LEU:HB2	1.60	1.41
5:EM:140:ASP:CA	5:CM:139:LYS:HB2	1.14	1.41
2:U1:1:MET:N	1:CJ:150:ASN:HD21	1.17	1.41
2:U1:1:MET:H3	1:CJ:150:ASN:ND2	0.94	1.41
5:C2:265:LEU:HD22	5:N9:231:ASN:CG	1.44	1.41
1:S6:367:PRO:HG2	1:AS:375:TRP:CZ3	1.56	1.41
1:g6:366:ASN:HA	1:AP:108:MET:SD	1.61	1.41
1:g8:31:LYS:HG3	1:KS:314:GLY:CA	1.47	1.41
1:AK:82:ILE:HG12	1:KP:143:GLN:C	1.46	1.41
5:C9:265:LEU:HD22	5:NA:231:ASN:CG	1.44	1.41
5:EC:21:ILE:CG2	5:EH:55:LEU:HD22	1.49	1.41
1:BD:99:MET:O	1:KS:25:PHE:CA	1.66	1.41
1:KD:143:GLN:C	1:IS:82:ILE:HG12	1.46	1.41
1:R4:109:LEU:O	1:IS:105:GLU:CB	1.69	1.40
1:g8:366:ASN:HA	1:IS:108:MET:SD	1.60	1.40
1:FE:365:HIS:NE2	2:HP:10:MET:CE	1.82	1.40
1:DJ:109:LEU:CD1	1:KP:105:GLU:O	1.67	1.40
2:FJ:2:TYR:HB2	2:NP:55:GLY:CA	1.50	1.40
3:AO:66:ILE:CG2	2:LS:54:THR:HG22	1.49	1.40
1:C1:139:ARG:HD2	1:bQ:81:PHE:CD2	1.57	1.40
1:C4:81:PHE:CD2	1:aE:139:ARG:HD2	1.57	1.40
4:B5:249:GLN:CB	3:AH:210:SER:OG	1.67	1.40
5:E5:55:LEU:HD22	5:EN:21:ILE:CG2	1.49	1.40
1:C6:139:ARG:HD2	1:gG:81:PHE:CD2	1.57	1.40
2:ND:55:GLY:CA	2:FK:2:TYR:HB2	1.51	1.40
1:KJ:53:TYR:CE1	1:AP:223:GLY:HA2	1.55	1.40
2:NJ:55:GLY:CA	2:ES:2:TYR:HB2	1.51	1.40
1:AK:314:GLY:O	1:KP:31:LYS:CB	1.69	1.40
1:X1:81:PHE:CD2	1:IR:139:ARG:HD2	1.57	1.40
5:E5:21:ILE:CG2	5:EI:55:LEU:HD22	1.49	1.40
1:S6:57:LYS:CG	1:CS:143:GLN:NE2	1.82	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I7:81:PHE:CD2	1:CQ:139:ARG:HD2	1.57	1.40
3:A9:154:ILE:H	1:AK:145:LEU:CG	1.34	1.40
2:MD:11:MET:SD	1:KK:133:LEU:HB2	1.60	1.40
1:KJ:45:MET:CB	1:LP:14:VAL:O	1.66	1.40
1:CL:81:PHE:CD2	1:YR:139:ARG:HD2	1.57	1.40
1:T1:374:HIS:CE1	2:HJ:9:SER:OG	1.75	1.40
4:B5:3:ARG:CB	3:AH:194:ASN:ND2	1.85	1.40
4:B5:33:TYR:CE1	5:EO:57:GLU:HB2	1.45	1.40
5:N5:231:ASN:CG	5:CN:265:LEU:HD22	1.44	1.40
1:Y6:81:PHE:CD2	1:SE:139:ARG:HD2	1.57	1.40
1:C7:45:MET:CB	1:CK:19:LYS:HG2	1.48	1.40
5:NB:231:ASN:CG	5:CF:265:LEU:HD22	1.44	1.40
4:BF:249:GLN:CB	3:AO:210:SER:OG	1.67	1.40
5:EF:55:LEU:HD22	5:EM:21:ILE:CG2	1.49	1.40
3:AI:210:SER:OG	4:BM:249:GLN:CB	1.67	1.40
5:EI:21:ILE:CG2	5:EO:55:LEU:HD22	1.49	1.40
1:LK:31:LYS:HD3	1:DP:316:VAL:CG1	0.97	1.40
1:Q3:139:ARG:HD2	1:X4:81:PHE:CD2	1.57	1.40
1:f4:81:PHE:CD2	1:gG:139:ARG:HD2	1.57	1.40
1:g6:57:LYS:HD2	1:CP:143:GLN:NE2	1.11	1.40
1:I7:139:ARG:HD2	1:gR:81:PHE:CD2	1.57	1.40
1:g7:81:PHE:CD2	1:C8:139:ARG:HD2	1.57	1.40
1:g7:139:ARG:HD2	1:AE:81:PHE:CD2	1.57	1.40
1:LD:31:LYS:HD3	1:DK:316:VAL:CG1	0.97	1.40
1:aE:81:PHE:CD2	1:CG:139:ARG:HD2	1.57	1.40
5:NM:231:ASN:CG	5:CO:265:LEU:HD22	1.44	1.40
1:I1:139:ARG:HD2	1:SE:81:PHE:CD2	1.57	1.39
1:R1:109:LEU:O	1:AJ:105:GLU:CB	1.69	1.39
1:I6:81:PHE:CD2	1:CL:139:ARG:HD2	1.57	1.39
1:i6:367:PRO:HG2	1:BJ:375:TRP:CZ3	1.56	1.39
1:C7:148:ALA:CB	2:NK:15:TYR:CE2	2.06	1.39
1:Y8:81:PHE:CD2	1:bQ:139:ARG:HD2	1.57	1.39
4:B9:3:ARG:CB	3:AB:194:ASN:ND2	1.85	1.39
1:AD:108:MET:SD	1:YG:366:ASN:HA	1.61	1.39
1:AD:145:LEU:CD2	3:AF:33:ASN:C	1.94	1.39
1:KD:14:VAL:CG2	1:KS:45:MET:H	1.32	1.39
1:KD:53:TYR:CE1	1:IS:223:GLY:HA2	1.55	1.39
3:AH:151:ASN:HA	1:AP:135:ASN:ND2	1.23	1.39
3:AI:194:ASN:ND2	4:BM:3:ARG:CB	1.85	1.39
5:EI:57:GLU:HB2	4:BN:33:TYR:CE1	1.45	1.39
1:AJ:223:GLY:HA2	1:JS:53:TYR:CE1	1.55	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:143:GLN:C	1:AP:82:ILE:HG12	1.46	1.39
2:HK:9:SER:OG	1:jR:374:HIS:CE1	1.75	1.39
1:LK:144:THR:N	1:DP:82:ILE:HD13	1.12	1.39
1:C1:81:PHE:CD2	1:Y8:139:ARG:HD2	1.57	1.39
2:U4:1:MET:H3	1:BS:150:ASN:ND2	0.94	1.39
4:B9:249:GLN:CB	3:AB:210:SER:OG	1.67	1.39
1:BE:109:LEU:O	1:AP:105:GLU:CB	1.69	1.39
4:BI:3:ARG:CB	3:AN:194:ASN:ND2	1.85	1.39
1:BJ:99:MET:O	1:LP:25:PHE:CA	1.66	1.39
2:NK:55:GLY:CA	2:FP:2:TYR:HB2	1.50	1.39
1:R1:105:GLU:C	1:AS:109:LEU:CD1	1.95	1.39
4:B2:3:ARG:CB	3:AF:194:ASN:ND2	1.85	1.39
5:N2:231:ASN:CG	5:CB:265:LEU:HD22	1.44	1.39
1:Q4:139:ARG:HD2	1:IL:81:PHE:CD2	1.57	1.39
1:f4:139:ARG:HD2	1:C6:81:PHE:CD2	1.57	1.39
1:Q6:366:ASN:HA	1:AJ:108:MET:SD	1.60	1.39
3:A9:154:ILE:CB	1:AK:145:LEU:CD1	2.00	1.39
3:A9:194:ASN:ND2	4:BC:3:ARG:CB	1.85	1.39
4:BB:249:GLN:CB	3:AM:210:SER:OG	1.67	1.39
2:MK:11:MET:SD	1:KP:133:LEU:HB2	1.60	1.39
1:X1:139:ARG:HD2	1:I8:81:PHE:CD2	1.57	1.39
1:f1:81:PHE:CD2	1:QG:139:ARG:HD2	1.57	1.39
2:j4:1:MET:N	1:CD:150:ASN:ND2	1.70	1.39
3:A5:194:ASN:ND2	4:BO:3:ARG:CB	1.85	1.39
5:E5:140:ASP:CB	5:C5:139:LYS:CE	1.97	1.39
1:g6:148:ALA:CB	2:NP:15:TYR:CE2	2.06	1.39
1:CD:143:GLN:NE2	1:YG:57:LYS:HD2	1.11	1.39
4:BI:249:GLN:CB	3:AN:210:SER:OG	1.67	1.39
1:AJ:314:GLY:O	1:JS:31:LYS:CB	1.69	1.39
1:CK:150:ASN:HD21	2:kR:1:MET:N	1.17	1.39
5:EO:140:ASP:HB2	5:CO:139:LYS:CB	1.52	1.39
3:A2:194:ASN:ND2	4:BA:3:ARG:CB	1.85	1.39
1:R4:105:GLU:C	1:BD:109:LEU:CD1	1.95	1.39
1:X4:139:ARG:HD2	1:CR:81:PHE:CD2	1.57	1.39
5:C5:265:LEU:HD22	5:NI:231:ASN:CG	1.44	1.39
1:C7:45:MET:HB2	1:CK:19:LYS:CG	1.29	1.39
1:Q7:81:PHE:CD2	1:QR:139:ARG:HD2	1.57	1.39
1:g8:57:LYS:HD2	1:BS:143:GLN:NE2	1.10	1.39
3:AA:194:ASN:ND2	4:BH:3:ARG:CB	1.85	1.39
3:AC:194:ASN:ND2	4:BN:3:ARG:CB	1.85	1.39
2:MD:8:ARG:NH1	1:KK:374:HIS:CE1	1.90	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ND:15:TYR:CE2	1:YG:148:ALA:CB	2.06	1.39
4:BF:3:ARG:CB	3:AO:194:ASN:ND2	1.85	1.39
1:KJ:133:LEU:HB2	2:MP:11:MET:SD	1.60	1.39
1:AK:105:GLU:CB	1:hR:109:LEU:O	1.69	1.39
1:IL:139:ARG:HD2	1:IQ:81:PHE:CD2	1.57	1.39
1:f1:139:ARG:HD2	1:C3:81:PHE:CD2	1.57	1.38
1:Q3:81:PHE:CD2	1:CR:139:ARG:HD2	1.57	1.38
3:A5:112:ILE:CB	2:MJ:27:ASN:ND2	1.82	1.38
1:Q6:148:ALA:CB	2:NJ:15:TYR:CE2	2.06	1.38
1:LD:31:LYS:CD	1:DK:316:VAL:CG1	1.93	1.38
1:KE:81:PHE:CD2	1:QQ:139:ARG:HD2	1.57	1.38
5:CH:265:LEU:HD22	5:NN:231:ASN:CG	1.44	1.38
1:KJ:31:LYS:CB	1:AP:314:GLY:O	1.69	1.38
1:YL:139:ARG:HD2	1:QR:81:PHE:CD2	1.57	1.38
1:CQ:81:PHE:CD2	1:gR:139:ARG:HD2	1.57	1.38
1:C4:139:ARG:HD2	1:CG:81:PHE:CD2	1.57	1.38
1:S4:105:GLU:CB	1:KS:109:LEU:CD2	2.00	1.38
5:D5:40:THR:HG22	3:AC:197:VAL:CG1	1.54	1.38
1:I6:139:ARG:HD2	1:YR:81:PHE:CD2	1.57	1.38
1:g8:27:HIS:C	1:IS:100:ASP:OD2	1.66	1.38
1:KJ:105:GLU:O	1:CS:109:LEU:CD1	1.67	1.38
1:KJ:374:HIS:CE1	2:MP:8:ARG:NH1	1.90	1.38
1:CK:38:LYS:HD3	1:hR:221:ALA:CA	1.47	1.38
1:R4:221:ALA:CA	1:BS:38:LYS:HD3	1.47	1.38
1:g4:109:LEU:O	1:AD:105:GLU:CB	1.69	1.38
5:EB:140:ASP:CB	5:CB:139:LYS:CE	1.97	1.38
1:AD:145:LEU:HD23	3:AF:33:ASN:C	1.46	1.38
1:FE:374:HIS:CE1	2:HP:9:SER:OG	1.75	1.38
1:LK:25:PHE:CE1	1:DP:126:VAL:CG1	2.07	1.38
1:LK:109:LEU:CD2	1:iR:105:GLU:CB	2.00	1.38
5:EN:140:ASP:CB	5:CN:139:LYS:CE	1.97	1.38
3:AO:66:ILE:HA	2:LS:54:THR:CG2	1.53	1.38
1:IS:62:LEU:CB	1:JS:88:GLU:HB2	1.50	1.38
1:S1:105:GLU:CB	1:LJ:109:LEU:CD2	2.00	1.38
3:A2:197:VAL:CG1	5:DC:40:THR:HG22	1.54	1.38
1:I3:81:PHE:CD2	1:I4:139:ARG:HD2	1.57	1.38
1:Q6:27:HIS:C	1:AJ:100:ASP:OD2	1.66	1.38
1:Y7:81:PHE:CD2	1:KE:139:ARG:HD2	1.57	1.38
1:C8:81:PHE:CD2	1:AE:139:ARG:HD2	1.57	1.38
1:Q8:81:PHE:CD2	1:IG:139:ARG:HD2	1.57	1.38
3:A9:154:ILE:H	1:AK:145:LEU:CD1	1.28	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DA:40:THR:HG22	3:AB:197:VAL:CG1	1.54	1.38
5:EA:140:ASP:HB2	5:CA:139:LYS:CB	1.52	1.38
1:CD:19:LYS:CG	1:YG:45:MET:HB2	1.29	1.38
5:DF:40:THR:HG22	3:AI:197:VAL:CG1	1.54	1.38
3:AH:112:ILE:N	2:MP:19:ARG:NH2	1.70	1.38
1:Q4:81:PHE:CD2	1:IQ:139:ARG:HD2	1.57	1.38
1:Q6:45:MET:CB	1:CJ:19:LYS:HG2	1.48	1.38
1:g6:27:HIS:C	1:AP:100:ASP:OD2	1.66	1.38
5:CC:265:LEU:HD22	5:NH:231:ASN:CG	1.44	1.38
1:BE:105:GLU:C	1:BJ:109:LEU:CD1	1.95	1.38
1:BP:109:LEU:CD1	1:hR:105:GLU:C	1.95	1.38
1:I1:81:PHE:CD2	1:Y6:139:ARG:HD2	1.57	1.37
1:C3:139:ARG:HD2	1:QG:81:PHE:CD2	1.57	1.37
1:C3:158:LYS:CE	1:h7:93:ASP:OD1	1.72	1.37
1:g6:367:PRO:HG2	1:LP:375:TRP:CD2	1.60	1.37
1:I8:139:ARG:HD2	1:IR:81:PHE:CD2	1.57	1.37
1:g8:45:MET:CB	1:BS:19:LYS:HG2	1.48	1.37
1:TE:93:ASP:OD1	1:IQ:158:LYS:CE	1.72	1.37
1:LJ:25:PHE:CE1	1:CS:126:VAL:CG1	2.07	1.37
1:LK:45:MET:H	1:KP:14:VAL:CG2	1.32	1.37
1:i4:374:HIS:CE1	2:HD:9:SER:OG	1.75	1.37
1:i6:20:SER:CB	1:DJ:47:GLU:CB	2.02	1.37
1:I7:158:LYS:CE	1:cQ:93:ASP:OD1	1.72	1.37
3:AB:112:ILE:CA	2:MD:23:ARG:NH2	1.87	1.37
5:DB:40:THR:HG22	3:AO:197:VAL:CG1	1.54	1.37
1:hG:93:ASP:OD1	1:CL:158:LYS:CE	1.72	1.37
1:AJ:123:ASN:ND2	1:JS:21:ALA:HB2	1.04	1.37
1:g4:105:GLU:C	1:BK:109:LEU:CD1	1.95	1.37
3:A5:197:VAL:CG1	5:DM:40:THR:HG22	1.54	1.37
1:Q6:367:PRO:HG2	1:LJ:375:TRP:CD2	1.59	1.37
1:A7:93:ASP:OD1	1:gR:158:LYS:CE	1.72	1.37
1:Y7:139:ARG:HD2	1:QQ:81:PHE:CD2	1.57	1.37
5:E9:140:ASP:CB	5:C9:139:LYS:CE	1.97	1.37
5:E9:140:ASP:HB2	5:C9:139:LYS:CB	1.52	1.37
1:DD:126:VAL:CG1	1:KS:25:PHE:CE1	2.07	1.37
1:KD:33:TRP:CE3	1:IS:170:GLU:OE2	1.77	1.37
1:aG:367:PRO:HG2	1:BK:375:TRP:CZ3	1.56	1.37
1:I1:158:LYS:CE	1:JG:93:ASP:OD1	1.72	1.37
1:Y1:93:ASP:OD1	1:I6:158:LYS:CE	1.72	1.37
1:f1:158:LYS:CE	1:AQ:93:ASP:OD1	1.72	1.37
1:Q7:139:ARG:HD2	1:YL:81:PHE:CD2	1.57	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z7:93:ASP:OD1	1:IR:158:LYS:CE	1.72	1.37
3:AA:197:VAL:CG1	5:DN:40:THR:HG22	1.54	1.37
1:KD:21:ALA:CB	1:IS:123:ASN:ND2	1.88	1.37
1:FE:144:THR:C	1:CP:82:ILE:HD11	1.32	1.37
1:KJ:33:TRP:CE3	1:AP:170:GLU:OE2	1.77	1.37
1:AK:62:LEU:CB	1:KK:88:GLU:HB2	1.50	1.37
1:X1:158:LYS:CE	1:J6:93:ASP:OD1	1.72	1.37
3:A2:33:ASN:CG	1:AK:58:ILE:CD1	1.89	1.37
5:D2:28:TYR:CD2	1:AD:369:PHE:HE1	1.43	1.37
1:J4:93:ASP:OD1	1:C8:158:LYS:CE	1.72	1.37
1:C7:158:LYS:CE	1:hR:93:ASP:OD1	1.72	1.37
1:i8:367:PRO:HG2	1:BD:375:TRP:CZ3	1.56	1.37
5:EC:140:ASP:CG	5:CC:139:LYS:HE2	1.49	1.37
1:AD:123:ASN:ND2	1:KK:21:ALA:CB	1.88	1.37
1:LD:25:PHE:CE1	1:DK:126:VAL:CG1	2.07	1.37
2:MD:11:MET:HE1	1:KK:372:VAL:CA	1.20	1.37
1:CG:158:LYS:CE	1:ZL:93:ASP:OD1	1.72	1.37
5:EH:140:ASP:CB	5:CH:139:LYS:CE	1.97	1.37
5:EH:140:ASP:CG	5:CH:139:LYS:HE2	1.49	1.37
1:AJ:82:ILE:HG12	1:JS:143:GLN:C	1.46	1.37
1:DJ:126:VAL:CG1	1:LP:25:PHE:CE1	2.07	1.37
1:AK:170:GLU:OE2	1:KP:33:TRP:CE3	1.77	1.37
1:IL:158:LYS:CE	1:ZR:93:ASP:OD1	1.72	1.37
1:Q1:139:ARG:HD2	1:IG:81:PHE:CD2	1.57	1.36
1:R1:221:ALA:CA	1:CJ:38:LYS:HD3	1.47	1.36
1:I3:139:ARG:HD2	1:QL:81:PHE:CD2	1.57	1.36
1:T4:144:THR:CA	1:BS:82:ILE:CD1	2.03	1.36
1:T4:374:HIS:CE1	2:GS:9:SER:OG	1.75	1.36
5:D9:40:THR:HG22	3:AF:197:VAL:CG1	1.54	1.36
1:AD:170:GLU:OE2	1:KK:33:TRP:CE3	1.77	1.36
2:FD:2:TYR:HB2	2:MS:55:GLY:CA	1.51	1.36
1:KD:31:LYS:CB	1:IS:314:GLY:O	1.69	1.36
1:LD:31:LYS:CD	1:DK:316:VAL:HG13	1.46	1.36
1:CE:105:GLU:CB	1:LP:109:LEU:CD2	2.00	1.36
1:KJ:372:VAL:CA	2:MP:11:MET:HE1	1.20	1.36
1:CK:82:ILE:CD1	1:jR:144:THR:CA	2.03	1.36
2:MK:8:ARG:NH1	1:KP:374:HIS:CE1	1.90	1.36
1:Q1:81:PHE:CD2	1:Q8:139:ARG:HD2	1.57	1.36
1:I4:81:PHE:CD2	1:QL:139:ARG:HD2	1.57	1.36
1:h4:105:GLU:CB	1:LD:109:LEU:CD2	2.00	1.36
2:j4:1:MET:H3	1:CD:150:ASN:ND2	0.93	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:367:PRO:HG2	1:LK:375:TRP:CD2	1.60	1.36
1:B7:367:PRO:HG2	1:BP:375:TRP:CZ3	1.56	1.36
3:AA:114:PHE:HA	2:MK:7:MET:C	1.49	1.36
3:AB:112:ILE:CA	2:MD:23:ARG:HH21	1.35	1.36
1:LD:317:PHE:CE1	1:YG:29:TYR:CD2	2.14	1.36
2:ND:15:TYR:HE2	1:YG:148:ALA:CB	1.38	1.36
5:EI:140:ASP:CB	5:CI:139:LYS:CE	1.97	1.36
1:LK:45:MET:CB	1:KP:14:VAL:HG23	1.37	1.36
5:D2:40:THR:HG22	3:AM:197:VAL:CG1	1.54	1.36
1:I3:158:LYS:CE	1:R8:93:ASP:OD1	1.72	1.36
1:R3:93:ASP:OD1	1:I8:158:LYS:CE	1.72	1.36
1:I4:158:LYS:CE	1:A8:93:ASP:OD1	1.72	1.36
1:S6:13:LEU:O	1:CS:45:MET:CG	1.74	1.36
1:i6:13:LEU:O	1:DJ:45:MET:CG	1.74	1.36
1:B7:20:SER:CB	1:DP:47:GLU:CB	2.02	1.36
4:BB:3:ARG:CB	3:AM:194:ASN:ND2	1.85	1.36
1:AJ:82:ILE:HG12	1:JS:144:THR:N	1.04	1.36
3:AM:112:ILE:CD1	2:LS:17:ASP:CB	1.99	1.36
1:A1:93:ASP:OD1	1:C6:158:LYS:CE	1.72	1.36
1:J3:93:ASP:OD1	1:Q8:158:LYS:CE	1.72	1.36
1:Q4:158:LYS:CE	1:h8:93:ASP:OD1	1.72	1.36
1:g8:148:ALA:CB	2:MS:15:TYR:CE2	2.06	1.36
3:A9:154:ILE:CB	1:AK:145:LEU:HD11	1.55	1.36
3:AA:114:PHE:CD1	2:MK:8:ARG:HA	1.61	1.36
1:AD:314:GLY:O	1:KK:31:LYS:CB	1.69	1.36
5:EF:140:ASP:CB	5:CF:139:LYS:CE	1.97	1.36
5:EF:140:ASP:CG	5:CF:139:LYS:HE2	1.49	1.36
1:DJ:316:VAL:HG13	1:LP:31:LYS:CD	1.47	1.36
1:KJ:21:ALA:HB2	1:AP:123:ASN:ND2	1.04	1.36
1:KJ:144:THR:N	1:AP:82:ILE:HG12	1.04	1.36
1:LJ:31:LYS:CD	1:CS:316:VAL:HG13	1.46	1.36
2:MJ:8:ARG:NH1	1:JS:374:HIS:CE1	1.90	1.36
1:AK:123:ASN:ND2	1:KP:21:ALA:CB	1.88	1.36
1:C1:158:LYS:CE	1:A6:93:ASP:OD1	1.72	1.36
1:J1:93:ASP:OD1	1:IG:158:LYS:CE	1.72	1.36
1:A4:93:ASP:OD1	1:QG:158:LYS:CE	1.72	1.36
5:E5:140:ASP:CG	5:C5:139:LYS:HE2	1.49	1.36
1:C7:57:LYS:HD2	1:CK:143:GLN:NE2	1.11	1.36
3:A9:197:VAL:CG1	5:DH:40:THR:HG22	1.54	1.36
5:E9:140:ASP:CG	5:C9:139:LYS:HE2	1.49	1.36
5:EB:140:ASP:HB2	5:CB:139:LYS:CB	1.52	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:14:VAL:HG23	1:KS:45:MET:CB	1.37	1.36
1:KJ:14:VAL:HG23	1:LP:45:MET:CB	1.37	1.36
5:EM:140:ASP:CG	5:CM:139:LYS:HE2	1.49	1.36
5:E5:140:ASP:HB2	5:C5:139:LYS:CB	1.52	1.35
1:S6:20:SER:OG	1:CS:47:GLU:CB	1.74	1.35
1:g8:148:ALA:HB1	2:MS:15:TYR:CZ	1.61	1.35
1:AD:123:ASN:ND2	1:KK:21:ALA:HB2	1.04	1.35
1:CD:49:PHE:HB3	1:YG:137:ASP:OD2	1.24	1.35
3:AM:117:PRO:N	2:LS:7:MET:CE	1.80	1.35
5:E2:140:ASP:CG	5:C2:139:LYS:HE2	1.49	1.35
1:A3:93:ASP:OD1	1:g7:158:LYS:CE	1.72	1.35
1:S6:20:SER:CB	1:CS:47:GLU:CB	2.02	1.35
1:i8:20:SER:CB	1:DD:47:GLU:CB	2.02	1.35
1:AD:100:ASP:OD2	1:YG:27:HIS:C	1.66	1.35
5:EF:140:ASP:HB2	5:CF:139:LYS:CB	1.52	1.35
1:aG:20:SER:CB	1:DK:47:GLU:CB	2.02	1.35
1:LJ:31:LYS:CD	1:CS:316:VAL:CG1	1.93	1.35
1:C4:158:LYS:CE	1:RG:93:ASP:OD1	1.72	1.35
1:g6:29:TYR:CD2	1:LP:317:PHE:CE1	2.14	1.35
1:i8:13:LEU:O	1:DD:45:MET:CG	1.74	1.35
1:DD:81:PHE:CE2	1:KS:139:ARG:CB	1.99	1.35
3:AN:197:VAL:CG1	5:DO:40:THR:HG22	1.54	1.35
5:EO:140:ASP:CG	5:CO:139:LYS:HE2	1.49	1.35
1:T1:144:THR:CA	1:CJ:82:ILE:CD1	2.03	1.35
1:R4:93:ASP:OD1	1:g8:158:LYS:CE	1.72	1.35
1:f4:158:LYS:CE	1:ZG:93:ASP:OD1	1.72	1.35
1:J7:93:ASP:OD1	1:bQ:158:LYS:CE	1.72	1.35
1:Y7:158:LYS:CE	1:JR:93:ASP:OD1	1.72	1.35
5:EA:140:ASP:CG	5:CA:139:LYS:HE2	1.49	1.35
5:EB:140:ASP:CA	5:CB:139:LYS:HB2	1.14	1.35
1:KD:374:HIS:CE1	2:LS:8:ARG:NH1	1.90	1.35
1:SE:158:LYS:CE	1:JQ:93:ASP:OD1	1.72	1.35
3:AH:197:VAL:CG1	5:DI:40:THR:HG22	1.54	1.35
5:EH:140:ASP:HB2	5:CH:139:LYS:CB	1.52	1.35
1:AJ:170:GLU:OE2	1:JS:33:TRP:CE3	1.77	1.35
5:EN:140:ASP:HB2	5:CN:139:LYS:CB	1.52	1.35
5:EO:140:ASP:CB	5:CO:139:LYS:CE	1.97	1.35
3:A5:112:ILE:HD12	2:MJ:27:ASN:OD1	1.21	1.35
1:C7:29:TYR:CD2	1:LK:317:PHE:CE1	2.14	1.35
1:g8:29:TYR:CD2	1:KS:317:PHE:CE1	2.14	1.35
3:AB:115:ILE:O	2:MD:19:ARG:CA	1.75	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ND:15:TYR:CZ	1:YG:148:ALA:HB1	1.60	1.35
1:FE:144:THR:CA	1:CP:82:ILE:CD1	2.03	1.35
2:HE:1:MET:N	1:CP:150:ASN:ND2	1.70	1.35
1:gG:158:LYS:CE	1:AL:93:ASP:OD1	1.72	1.35
1:LJ:139:ARG:HB2	1:CS:81:PHE:CE2	1.37	1.35
1:LJ:143:GLN:C	1:CS:82:ILE:HD13	1.51	1.35
1:Q3:158:LYS:CE	1:J8:93:ASP:OD1	1.72	1.34
1:Q4:118:THR:HG21	1:IQ:53:TYR:O	1.27	1.34
1:R4:116:MET:CE	1:BS:54:LEU:CD2	2.05	1.34
1:Y4:93:ASP:OD1	1:Y8:158:LYS:CE	1.72	1.34
5:F5:55:LEU:CD1	4:BH:32:PHE:CD2	2.10	1.34
1:g6:148:ALA:HB1	2:NP:15:TYR:CZ	1.61	1.34
1:g6:158:LYS:CE	1:BE:93:ASP:OD1	1.72	1.34
1:h6:93:ASP:OD1	1:AE:158:LYS:CE	1.72	1.34
1:C7:148:ALA:HB1	2:NK:15:TYR:CZ	1.60	1.34
5:EA:140:ASP:CB	5:CA:139:LYS:CE	1.97	1.34
1:AD:82:ILE:HG12	1:KK:143:GLN:C	1.46	1.34
1:aE:158:LYS:CE	1:AR:93:ASP:OD1	1.72	1.34
1:DJ:123:ASN:ND2	1:LP:21:ALA:CB	1.90	1.34
1:g1:93:ASP:OD1	1:CQ:158:LYS:CE	1.72	1.34
1:Q3:53:TYR:O	1:X4:118:THR:HG21	1.27	1.34
1:Z6:93:ASP:OD1	1:KE:158:LYS:CE	1.72	1.34
1:g8:81:PHE:CD2	1:DD:139:ARG:CD	2.10	1.34
3:AA:114:PHE:HA	2:MK:7:MET:O	1.25	1.34
3:AA:114:PHE:CB	2:MK:8:ARG:HA	1.58	1.34
4:BA:32:PHE:CD2	5:FH:55:LEU:CD1	2.10	1.34
5:DA:35:ARG:NH2	1:AK:369:PHE:CZ	1.96	1.34
5:CC:266:THR:HB	5:NH:230:SER:CA	1.53	1.34
1:AD:54:LEU:CB	3:AF:151:ASN:HB3	1.56	1.34
1:KD:21:ALA:HB2	1:IS:123:ASN:ND2	1.04	1.34
3:AH:114:PHE:HD1	2:MP:18:SER:OG	1.02	1.34
5:F2:55:LEU:CD1	4:BF:32:PHE:CD2	2.11	1.34
1:Q6:148:ALA:HB1	2:NJ:15:TYR:CZ	1.60	1.34
1:Y6:158:LYS:CE	1:LE:93:ASP:OD1	1.72	1.34
4:B9:32:PHE:CD2	5:FC:55:LEU:CD1	2.10	1.34
5:EB:140:ASP:CG	5:CB:139:LYS:HE2	1.49	1.34
4:BC:32:PHE:CD2	5:FN:55:LEU:CD1	2.10	1.34
1:DD:123:ASN:ND2	1:KS:21:ALA:CB	1.91	1.34
1:KD:98:ASN:ND2	1:KK:30:SER:HB3	1.43	1.34
1:LD:29:TYR:OH	1:DK:302:ASP:CB	1.75	1.34
5:FI:55:LEU:CD1	4:BN:32:PHE:CD2	2.10	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:25:PHE:O	1:iR:100:ASP:HA	1.27	1.34
1:RL:93:ASP:OD1	1:QR:158:LYS:CE	1.72	1.34
1:R1:93:ASP:OD1	1:Q6:158:LYS:CE	1.72	1.34
1:R1:222:SER:CA	1:CJ:38:LYS:HE2	0.86	1.34
1:C3:53:TYR:O	1:QG:118:THR:HG21	1.27	1.34
2:P4:11:MET:HG2	1:AE:372:VAL:CG1	1.58	1.34
4:B5:32:PHE:CD2	5:FO:55:LEU:CD1	2.10	1.34
1:Y6:372:VAL:CG1	2:PG:11:MET:HG2	1.58	1.34
1:g6:81:PHE:CD2	1:DJ:139:ARG:CD	2.10	1.34
1:g6:137:ASP:OD2	1:CP:49:PHE:HB3	1.24	1.34
1:Q7:158:LYS:CE	1:RQ:93:ASP:OD1	1.72	1.34
1:g8:30:SER:C	1:KS:315:ALA:HA	1.53	1.34
5:F9:55:LEU:CD1	4:BB:32:PHE:CD2	2.10	1.34
5:FB:55:LEU:CD1	4:BM:32:PHE:CD2	2.10	1.34
2:ZE:11:MET:HG2	1:IL:372:VAL:CG1	1.58	1.34
1:CK:38:LYS:HE2	1:hR:222:SER:CA	0.86	1.34
2:MK:11:MET:HE1	1:KP:372:VAL:CA	1.20	1.34
1:JL:93:ASP:OD1	1:YR:158:LYS:CE	1.72	1.34
5:DM:30:PRO:CB	1:IS:140:PHE:CD2	2.11	1.34
5:EM:140:ASP:HB2	5:CM:139:LYS:CB	1.52	1.34
5:EN:140:ASP:CG	5:CN:139:LYS:HE2	1.49	1.34
1:Q1:158:LYS:CE	1:R6:93:ASP:OD1	1.72	1.34
1:f1:372:VAL:CG1	2:n7:11:MET:HG2	1.58	1.34
5:E2:140:ASP:HB2	5:C2:139:LYS:CB	1.52	1.34
1:S4:105:GLU:C	1:KS:109:LEU:CD2	2.01	1.34
1:X4:158:LYS:CE	1:Z8:93:ASP:OD1	1.72	1.34
1:B7:20:SER:OG	1:DP:47:GLU:CB	1.74	1.34
1:R7:93:ASP:OD1	1:QQ:158:LYS:CE	1.72	1.34
1:Y7:208:LEU:CD1	1:Y7:391:ILE:CD1	2.06	1.34
1:g8:137:ASP:OD2	1:BS:49:PHE:HB3	1.24	1.34
1:g8:367:PRO:HG3	1:KS:375:TRP:CE3	1.51	1.34
1:i8:14:VAL:HG21	1:DD:14:VAL:CG1	1.58	1.34
1:i8:20:SER:OG	1:DD:47:GLU:CB	1.74	1.34
3:A9:152:SER:N	1:AK:144:THR:CA	1.80	1.34
3:AB:112:ILE:HA	2:MD:23:ARG:NH2	1.40	1.34
3:AC:114:PHE:HA	2:MP:51:GLN:NE2	1.40	1.34
1:AD:62:LEU:CB	1:KD:88:GLU:HB2	1.50	1.34
1:LD:375:TRP:CD2	1:YG:367:PRO:HG2	1.59	1.34
1:bE:93:ASP:OD1	1:CR:158:LYS:CE	1.72	1.34
5:FF:55:LEU:CD1	4:BO:32:PHE:CD2	2.10	1.34
1:AJ:123:ASN:ND2	1:JS:21:ALA:CB	1.88	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:82:ILE:HG12	1:KP:144:THR:N	1.04	1.34
1:CK:54:LEU:CD2	1:hR:116:MET:CE	2.04	1.34
1:CK:116:MET:HE3	1:jR:51:ASN:ND2	1.41	1.34
1:LK:29:TYR:OH	1:DP:302:ASP:CB	1.75	1.34
1:CQ:208:LEU:CD1	1:CQ:391:ILE:CD1	2.06	1.34
1:CR:208:LEU:CD1	1:CR:391:ILE:CD1	2.06	1.34
1:YR:208:LEU:CD1	1:YR:391:ILE:CD1	2.06	1.34
1:g4:93:ASP:OD1	1:YG:158:LYS:CE	1.72	1.33
2:j4:1:MET:N	1:CD:150:ASN:HD21	1.17	1.33
1:Q6:29:TYR:CD2	1:LJ:317:PHE:CE1	2.14	1.33
2:H7:11:MET:HG2	1:I7:372:VAL:CG1	1.58	1.33
1:g8:367:PRO:HG2	1:KS:375:TRP:CD2	1.59	1.33
1:gG:208:LEU:CD1	1:gG:391:ILE:CD1	2.06	1.33
1:KJ:153:LEU:CD1	2:MP:2:TYR:HE2	1.40	1.33
1:QL:158:LYS:CE	1:RR:93:ASP:OD1	1.72	1.33
1:bQ:208:LEU:CD1	1:bQ:391:ILE:CD1	2.06	1.33
1:C1:208:LEU:CD1	1:C1:391:ILE:CD1	2.06	1.33
2:e1:11:MET:HG2	1:CL:372:VAL:CG1	1.58	1.33
1:C6:208:LEU:CD1	1:C6:391:ILE:CD1	2.06	1.33
1:Q6:30:SER:C	1:LJ:315:ALA:HA	1.53	1.33
1:Q6:45:MET:HB2	1:CJ:19:LYS:CG	1.29	1.33
1:Y6:208:LEU:CD1	1:Y6:391:ILE:CD1	2.06	1.33
2:X7:11:MET:HG2	1:Y7:372:VAL:CG1	1.58	1.33
3:AB:151:ASN:N	1:AD:145:LEU:HD12	1.27	1.33
2:MD:2:TYR:HE2	1:KK:153:LEU:CD1	1.40	1.33
1:AE:208:LEU:CD1	1:AE:391:ILE:CD1	2.06	1.33
1:DJ:82:ILE:HD13	1:LP:143:GLN:C	1.51	1.33
1:LJ:33:TRP:CH2	1:CS:173:ALA:CB	2.12	1.33
1:LJ:37:ASP:O	1:CS:119:LYS:CG	1.76	1.33
1:IQ:208:LEU:CD1	1:IQ:391:ILE:CD1	2.06	1.33
2:m1:11:MET:HG2	1:gR:372:VAL:CG1	1.58	1.33
1:C3:208:LEU:CD1	1:C3:391:ILE:CD1	2.06	1.33
5:C5:265:LEU:HD22	5:NI:231:ASN:OD1	1.28	1.33
1:I6:372:VAL:CG1	2:PL:11:MET:HG2	1.58	1.33
1:Q6:148:ALA:CB	2:NJ:15:TYR:HE2	1.39	1.33
1:C7:38:LYS:CD	1:LK:222:SER:HA	1.59	1.33
1:I7:118:THR:HG21	1:CQ:53:TYR:O	1.27	1.33
1:KD:144:THR:N	1:IS:82:ILE:HG12	1.04	1.33
1:AG:93:ASP:OD1	1:YL:158:LYS:CE	1.72	1.33
1:YG:81:PHE:CD2	1:DK:139:ARG:CD	2.10	1.33
1:LJ:29:TYR:OH	1:CS:302:ASP:CB	1.75	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:123:ASN:ND2	1:KP:21:ALA:HB2	1.04	1.33
1:LK:143:GLN:C	1:DP:82:ILE:HD13	1.51	1.33
1:CL:118:THR:HG21	1:YR:53:TYR:O	1.27	1.33
2:P1:11:MET:HG2	1:Q1:372:VAL:CG1	1.58	1.33
1:Q3:208:LEU:CD1	1:Q3:391:ILE:CD1	2.06	1.33
1:R4:222:SER:CA	1:BS:38:LYS:HE2	0.86	1.33
5:N5:230:SER:CA	5:CN:266:THR:HB	1.53	1.33
1:g6:38:LYS:CD	1:LP:222:SER:HA	1.59	1.33
2:H8:11:MET:HG2	1:QL:372:VAL:CG1	1.58	1.33
5:DA:35:ARG:NH2	1:AK:369:PHE:CE1	1.95	1.33
3:AB:116:VAL:CA	2:MD:19:ARG:HD2	1.31	1.33
1:AD:304:GLN:NE2	1:KK:28:ASP:CB	1.92	1.33
1:DD:316:VAL:HG13	1:KS:31:LYS:CD	1.47	1.33
4:BI:32:PHE:CD2	5:FM:55:LEU:CD1	2.10	1.33
5:EI:140:ASP:CG	5:CI:139:LYS:HE2	1.49	1.33
1:AJ:297:LEU:HD11	1:JS:29:TYR:OH	1.17	1.33
1:KJ:28:ASP:CB	1:AP:304:GLN:NE2	1.92	1.33
1:LK:33:TRP:CH2	1:DP:173:ALA:CB	2.12	1.33
1:LK:109:LEU:CD2	1:iR:105:GLU:C	2.01	1.33
1:C3:372:VAL:CG1	2:H4:11:MET:HG2	1.58	1.33
1:g4:116:MET:CE	1:CD:54:LEU:CD2	2.05	1.33
1:i4:144:THR:CA	1:CD:82:ILE:CD1	2.03	1.33
1:C6:372:VAL:CG1	2:HL:11:MET:HG2	1.58	1.33
1:i6:20:SER:OG	1:DJ:47:GLU:CB	1.74	1.33
1:C7:27:HIS:C	1:AK:100:ASP:OD2	1.66	1.33
1:B7:13:LEU:O	1:DP:45:MET:CG	1.74	1.33
1:Y7:53:TYR:O	1:QQ:118:THR:HG21	1.27	1.33
1:Y7:118:THR:HG21	1:KE:53:TYR:O	1.27	1.33
3:A9:154:ILE:N	1:AK:145:LEU:CD2	1.89	1.33
3:AA:114:PHE:CD1	2:MK:8:ARG:CB	2.11	1.33
5:EC:140:ASP:HB2	5:CC:139:LYS:CB	1.52	1.33
1:DD:82:ILE:HD13	1:KS:143:GLN:C	1.51	1.33
1:DD:104:ASN:ND2	5:DF:25:ARG:NH2	1.72	1.33
2:FD:10:MET:HE2	1:KS:365:HIS:CD2	1.64	1.33
1:LD:22:LEU:N	1:KK:47:GLU:OE1	1.59	1.33
1:KE:118:THR:HG21	1:QQ:53:TYR:O	1.27	1.33
2:RE:11:MET:HG2	1:SE:372:VAL:CG1	1.58	1.33
1:aE:118:THR:HG21	1:CG:53:TYR:O	1.27	1.33
1:aG:144:THR:N	1:BK:82:ILE:HD11	1.00	1.33
1:AJ:304:GLN:NE2	1:JS:28:ASP:CB	1.92	1.33
1:DJ:81:PHE:CE2	1:LP:139:ARG:CB	1.99	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:316:VAL:CG1	1:LP:31:LYS:HD3	0.97	1.33
1:KJ:21:ALA:CB	1:AP:123:ASN:ND2	1.88	1.33
1:LK:365:HIS:CD2	2:FP:10:MET:HE2	1.64	1.33
1:C1:372:VAL:CG1	2:P7:11:MET:HG2	1.58	1.32
1:Y3:221:ALA:O	1:BK:38:LYS:HE3	1.24	1.32
1:h4:100:ASP:HA	1:CD:25:PHE:O	1.27	1.32
1:g6:148:ALA:CB	2:NP:15:TYR:HE2	1.38	1.32
1:i6:14:VAL:HG21	1:DJ:14:VAL:CG1	1.58	1.32
2:n6:11:MET:HG2	1:g7:372:VAL:CG1	1.58	1.32
2:n8:11:MET:HG2	1:IQ:372:VAL:CG1	1.58	1.32
3:AA:113:TYR:CE2	2:MK:7:MET:HE2	1.63	1.32
3:AC:66:ILE:CD1	2:MP:54:THR:HG21	1.59	1.32
1:AD:82:ILE:HG12	1:KK:144:THR:N	1.04	1.32
1:CD:19:LYS:HG2	1:YG:45:MET:CB	1.48	1.32
1:LD:143:GLN:C	1:DK:82:ILE:HD13	1.51	1.32
1:LD:365:HIS:CD2	2:FK:10:MET:HE2	1.64	1.32
1:BE:116:MET:CE	1:CP:54:LEU:CD2	2.05	1.32
1:CE:105:GLU:C	1:LP:109:LEU:CD2	2.01	1.32
1:KE:372:VAL:CG1	2:PR:11:MET:HG2	1.58	1.32
1:aG:13:LEU:O	1:DK:45:MET:CG	1.74	1.32
1:aG:14:VAL:HG21	1:DK:14:VAL:CG1	1.58	1.32
5:DM:30:PRO:HB2	1:IS:140:PHE:CE2	1.64	1.32
1:CQ:118:THR:HG21	1:gR:53:TYR:O	1.27	1.32
1:YQ:221:ALA:O	1:AS:38:LYS:HE3	1.24	1.32
1:gR:208:LEU:CD1	1:gR:391:ILE:CD1	2.06	1.32
2:H1:11:MET:HG2	1:f4:372:VAL:CG1	1.58	1.32
1:R1:116:MET:CE	1:CJ:54:LEU:CD2	2.05	1.32
1:T1:51:ASN:ND2	1:CJ:116:MET:HE3	1.42	1.32
1:X1:53:TYR:O	1:I8:118:THR:HG21	1.27	1.32
1:f1:53:TYR:O	1:C3:118:THR:HG21	1.27	1.32
1:f1:208:LEU:CD1	1:f1:391:ILE:CD1	2.06	1.32
1:I3:53:TYR:O	1:QL:118:THR:HG21	1.27	1.32
1:I4:208:LEU:CD1	1:I4:391:ILE:CD1	2.06	1.32
2:P6:11:MET:HG2	1:IR:372:VAL:CG1	1.58	1.32
2:f6:11:MET:HG2	1:QQ:372:VAL:CG1	1.58	1.32
1:C7:30:SER:C	1:LK:315:ALA:HA	1.53	1.32
1:Q8:208:LEU:CD1	1:Q8:391:ILE:CD1	2.06	1.32
1:i8:144:THR:N	1:BD:82:ILE:HD11	1.00	1.32
1:DD:173:ALA:CB	1:KS:33:TRP:CH2	2.12	1.32
1:DD:316:VAL:CG1	1:KS:31:LYS:CD	1.93	1.32
1:KD:50:VAL:HG23	1:KS:137:ASP:OD2	1.28	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:222:SER:CA	1:CP:38:LYS:HE2	0.86	1.32
1:IG:208:LEU:CD1	1:IG:391:ILE:CD1	2.06	1.32
3:AI:29:ARG:HH12	1:IS:58:ILE:CG1	1.42	1.32
3:AI:112:ILE:CG2	2:MJ:5:ASN:O	1.70	1.32
1:DJ:173:ALA:CB	1:LP:33:TRP:CH2	2.12	1.32
1:LJ:21:ALA:CB	1:CS:123:ASN:ND2	1.91	1.32
2:MJ:2:TYR:HE2	1:JS:153:LEU:CD1	1.40	1.32
1:LK:22:LEU:N	1:KP:47:GLU:OE1	1.60	1.32
1:I1:372:VAL:CG1	2:PQ:11:MET:HG2	1.58	1.32
1:X1:208:LEU:CD1	1:X1:391:ILE:CD1	2.06	1.32
5:C2:266:THR:HB	5:N9:230:SER:CA	1.53	1.32
1:I3:372:VAL:CG1	2:XR:11:MET:HG2	1.58	1.32
1:Q3:372:VAL:CG1	2:f8:11:MET:HG2	1.58	1.32
1:C4:208:LEU:CD1	1:C4:391:ILE:CD1	2.06	1.32
1:C4:372:VAL:CG1	2:fL:11:MET:HG2	1.58	1.32
1:i4:51:ASN:ND2	1:CD:116:MET:HE3	1.41	1.32
1:I6:53:TYR:O	1:YR:118:THR:HG21	1.27	1.32
1:I6:208:LEU:CD1	1:I6:391:ILE:CD1	2.06	1.32
1:Q6:208:LEU:CD1	1:Q6:391:ILE:CD1	2.06	1.32
2:X6:11:MET:HG2	1:Q8:372:VAL:CG1	1.58	1.32
1:C7:81:PHE:CD2	1:DP:139:ARG:CD	2.10	1.32
1:C7:208:LEU:CD1	1:C7:391:ILE:CD1	2.06	1.32
1:B7:14:VAL:HG21	1:DP:14:VAL:CG1	1.58	1.32
1:g7:208:LEU:CD1	1:g7:391:ILE:CD1	2.06	1.32
1:DD:302:ASP:CB	1:KS:29:TYR:OH	1.75	1.32
1:SE:208:LEU:CD1	1:SE:391:ILE:CD1	2.06	1.32
1:BJ:99:MET:O	1:LP:25:PHE:HA	1.14	1.32
1:LJ:365:HIS:CD2	2:ES:10:MET:HE2	1.64	1.32
1:LK:21:ALA:CB	1:DP:123:ASN:ND2	1.91	1.32
1:IL:208:LEU:CD1	1:IL:391:ILE:CD1	2.06	1.32
1:QL:208:LEU:CD1	1:QL:391:ILE:CD1	2.06	1.32
1:Q1:208:LEU:CD1	1:Q1:391:ILE:CD1	2.06	1.32
4:B2:32:PHE:CD2	5:FA:55:LEU:CD1	2.10	1.32
2:H3:11:MET:HG2	1:C8:372:VAL:CG1	1.58	1.32
1:I3:208:LEU:CD1	1:I3:391:ILE:CD1	2.06	1.32
1:g4:221:ALA:CA	1:CD:38:LYS:HD3	1.47	1.32
1:g4:222:SER:CA	1:CD:38:LYS:HE2	0.86	1.32
1:h4:105:GLU:C	1:LD:109:LEU:CD2	2.01	1.32
2:H6:11:MET:HG2	1:Y8:372:VAL:CG1	1.58	1.32
1:Q6:81:PHE:CD2	1:CS:139:ARG:CD	2.10	1.32
1:g6:30:SER:C	1:LP:315:ALA:HA	1.53	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f7:11:MET:HG2	1:I8:372:VAL:CG1	1.58	1.32
1:g8:208:LEU:CD1	1:g8:391:ILE:CD1	2.06	1.32
5:EC:140:ASP:CB	5:CC:139:LYS:CE	1.97	1.32
1:DJ:84:GLN:HG3	1:LP:140:PHE:O	1.17	1.32
1:DJ:302:ASP:CB	1:LP:29:TYR:OH	1.75	1.32
1:KJ:14:VAL:HG22	1:LP:45:MET:N	1.45	1.32
1:KJ:50:VAL:HG23	1:LP:137:ASP:OD2	1.28	1.32
2:MJ:2:TYR:CE2	1:JS:153:LEU:CD1	2.13	1.32
1:IL:53:TYR:O	1:IQ:118:THR:HG21	1.27	1.32
1:QR:208:LEU:CD1	1:QR:391:ILE:CD1	2.06	1.32
1:Q1:118:THR:HG21	1:Q8:53:TYR:O	1.27	1.32
3:A2:154:ILE:HB	1:AK:54:LEU:CB	1.56	1.32
1:X4:53:TYR:O	1:CR:118:THR:HG21	1.27	1.32
3:A5:116:VAL:CG1	2:MJ:21:ASN:ND2	1.90	1.32
1:C8:208:LEU:CD1	1:C8:391:ILE:CD1	2.06	1.32
3:AA:194:ASN:OD1	5:EH:36:ALA:HA	1.29	1.32
3:AC:194:ASN:OD1	5:EN:36:ALA:HA	1.28	1.32
1:KD:153:LEU:CD1	2:LS:2:TYR:HE2	1.40	1.32
1:LD:45:MET:CB	1:KK:14:VAL:HG23	1.37	1.32
1:aE:208:LEU:CD1	1:aE:391:ILE:CD1	2.06	1.32
1:AK:304:GLN:NE2	1:KP:28:ASP:CB	1.92	1.32
5:N2:231:ASN:OD1	5:CB:265:LEU:HD22	1.28	1.31
2:P3:11:MET:HG2	1:IG:372:VAL:CG1	1.58	1.31
1:I4:372:VAL:CG1	2:X8:11:MET:HG2	1.58	1.31
1:f4:208:LEU:CD1	1:f4:391:ILE:CD1	2.06	1.31
1:Q6:367:PRO:HG3	1:LJ:375:TRP:CE3	1.51	1.31
2:P8:11:MET:HG2	1:CR:372:VAL:CG1	1.58	1.31
1:Y8:208:LEU:CD1	1:Y8:391:ILE:CD1	2.06	1.31
1:aG:20:SER:OG	1:DK:47:GLU:CB	1.74	1.31
1:KK:98:ASN:ND2	1:KP:30:SER:HB3	1.43	1.31
2:MK:2:TYR:HE2	1:KP:153:LEU:CD1	1.40	1.31
1:YL:208:LEU:CD1	1:YL:391:ILE:CD1	2.06	1.31
1:AP:62:LEU:CB	1:KP:88:GLU:HB2	1.50	1.31
1:I1:208:LEU:CD1	1:I1:391:ILE:CD1	2.06	1.31
3:A2:194:ASN:OD1	5:EA:36:ALA:HA	1.28	1.31
1:Q6:38:LYS:CD	1:LJ:222:SER:HA	1.59	1.31
1:I8:53:TYR:O	1:IR:118:THR:HG21	1.27	1.31
3:AA:106:ARG:CB	2:MK:19:ARG:CG	2.01	1.31
1:DD:119:LYS:CG	1:KS:37:ASP:O	1.76	1.31
1:KD:153:LEU:CD1	2:LS:2:TYR:CE2	2.13	1.31
1:KJ:47:GLU:OE1	1:LP:22:LEU:N	1.59	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IR:208:LEU:CD1	1:IR:391:ILE:CD1	2.06	1.31
1:X1:372:VAL:CG1	2:X3:11:MET:HG2	1.58	1.31
1:Q4:372:VAL:CG1	2:fR:11:MET:HG2	1.58	1.31
1:I7:208:LEU:CD1	1:I7:391:ILE:CD1	2.06	1.31
1:Q7:372:VAL:CG1	2:HG:11:MET:HG2	1.58	1.31
5:CA:266:THR:HB	5:NC:230:SER:CA	1.53	1.31
3:AB:155:GLU:CD	1:AD:136:ASN:HB3	1.52	1.31
1:LD:25:PHE:HA	1:BK:99:MET:O	1.14	1.31
1:LD:33:TRP:CH2	1:DK:173:ALA:CB	2.12	1.31
1:aE:372:VAL:CG1	2:XG:11:MET:HG2	1.58	1.31
1:CG:372:VAL:CG1	2:HR:11:MET:HG2	1.58	1.31
2:FJ:10:MET:HE2	1:LP:365:HIS:CD2	1.64	1.31
1:KJ:98:ASN:ND2	1:JS:30:SER:HB3	1.43	1.31
1:LK:139:ARG:CB	1:DP:81:PHE:CE2	1.99	1.31
1:CL:208:LEU:CD1	1:CL:391:ILE:CD1	2.06	1.31
1:CQ:372:VAL:CG1	2:iQ:11:MET:HG2	1.58	1.31
1:Q4:208:LEU:CD1	1:Q4:391:ILE:CD1	2.06	1.31
1:X4:372:VAL:CG1	2:hE:11:MET:HG2	1.58	1.31
1:i6:144:THR:N	1:BJ:82:ILE:HD11	1.00	1.31
1:LD:25:PHE:CZ	1:DK:126:VAL:HG12	1.66	1.31
1:FE:365:HIS:CD2	2:HP:10:MET:SD	2.24	1.31
1:KE:208:LEU:CD1	1:KE:391:ILE:CD1	2.06	1.31
1:CG:208:LEU:CD1	1:CG:391:ILE:CD1	2.06	1.31
1:QG:372:VAL:CG1	2:HQ:11:MET:HG2	1.58	1.31
2:nG:11:MET:HG2	1:YR:372:VAL:CG1	1.58	1.31
2:FJ:3:GLU:O	1:LP:153:LEU:HD22	1.19	1.31
1:KJ:25:PHE:CD1	1:KP:99:MET:O	1.84	1.31
3:A2:112:ILE:CG1	2:MD:5:ASN:HB3	1.58	1.31
1:S6:14:VAL:HG21	1:CS:14:VAL:CG1	1.58	1.31
1:S6:144:THR:N	1:AS:82:ILE:HD11	1.00	1.31
1:g6:208:LEU:CD1	1:g6:391:ILE:CD1	2.06	1.31
1:Q7:208:LEU:CD1	1:Q7:391:ILE:CD1	2.06	1.31
5:CA:265:LEU:HD22	5:NC:231:ASN:OD1	1.28	1.31
1:LK:37:ASP:O	1:DP:119:LYS:CG	1.76	1.31
1:LK:137:ASP:OD2	1:KP:50:VAL:HG23	1.28	1.31
1:BP:109:LEU:HD13	1:hR:105:GLU:CB	1.61	1.31
1:S1:105:GLU:C	1:LJ:109:LEU:CD2	2.01	1.30
1:i4:30:SER:CA	1:CD:315:ALA:HB2	1.62	1.30
1:C7:148:ALA:CB	2:NK:15:TYR:HE2	1.38	1.30
1:LD:21:ALA:CB	1:DK:123:ASN:ND2	1.91	1.30
1:LD:22:LEU:N	1:KK:47:GLU:CD	1.80	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QG:208:LEU:CD1	1:QG:391:ILE:CD1	2.06	1.30
5:EI:36:ALA:HA	3:AN:194:ASN:OD1	1.28	1.30
1:KJ:29:TYR:OH	1:AP:297:LEU:HD11	1.17	1.30
1:DP:369:PHE:CE2	1:hR:105:GLU:HA	1.65	1.30
1:T1:365:HIS:CD2	2:HJ:10:MET:SD	2.24	1.30
1:T4:51:ASN:ND2	1:BS:116:MET:HE3	1.41	1.30
1:I8:208:LEU:CD1	1:I8:391:ILE:CD1	2.06	1.30
5:C9:265:LEU:HD22	5:NA:231:ASN:OD1	1.28	1.30
1:DD:316:VAL:CG1	1:KS:31:LYS:HD3	0.97	1.30
1:LD:315:ALA:HA	1:YG:30:SER:C	1.53	1.30
1:BE:105:GLU:HA	1:DJ:369:PHE:CE2	1.65	1.30
1:FE:30:SER:CA	1:CP:315:ALA:HB2	1.61	1.30
1:FE:51:ASN:ND2	1:CP:116:MET:HE3	1.42	1.30
1:KJ:78:GLU:OE2	3:AN:81:LEU:CG	1.78	1.30
1:LK:31:LYS:CD	1:DP:316:VAL:CG1	1.93	1.30
2:XQ:11:MET:HG2	1:QR:372:VAL:CG1	1.58	1.30
1:X1:118:THR:HG21	1:IR:53:TYR:O	1.27	1.30
1:Q3:118:THR:HG21	1:CR:53:TYR:O	1.27	1.30
1:X4:208:LEU:CD1	1:X4:391:ILE:CD1	2.06	1.30
1:B7:144:THR:N	1:BP:82:ILE:HD11	1.00	1.30
1:g8:38:LYS:CD	1:KS:222:SER:HA	1.59	1.30
1:KD:99:MET:O	1:KK:25:PHE:CD1	1.84	1.30
1:LD:37:ASP:O	1:DK:119:LYS:CG	1.76	1.30
1:YG:208:LEU:CD1	1:YG:391:ILE:CD1	2.06	1.30
2:fG:11:MET:HG2	1:gG:372:VAL:CG1	1.58	1.30
5:EI:140:ASP:HB2	5:CI:139:LYS:CB	1.52	1.30
1:AJ:56:PRO:O	3:AN:154:ILE:HG21	1.31	1.30
1:KJ:28:ASP:HB3	1:AP:304:GLN:NE2	1.46	1.30
1:LJ:139:ARG:CB	1:CS:81:PHE:CE2	1.99	1.30
1:AK:297:LEU:HD11	1:KP:29:TYR:OH	1.17	1.30
1:KK:99:MET:O	1:KP:25:PHE:CD1	1.84	1.30
1:QQ:208:LEU:CD1	1:QQ:391:ILE:CD1	2.06	1.30
1:T4:365:HIS:CD2	2:GS:10:MET:SD	2.24	1.30
1:Q6:367:PRO:HG2	1:LJ:375:TRP:CE3	1.50	1.30
1:g6:367:PRO:HG2	1:LP:375:TRP:CE3	1.50	1.30
1:i6:13:LEU:O	1:DJ:45:MET:HG2	1.29	1.30
1:C7:367:PRO:HG3	1:LK:375:TRP:CE3	1.51	1.30
1:g8:148:ALA:CB	2:MS:15:TYR:HE2	1.38	1.30
3:A9:154:ILE:H	1:AK:145:LEU:CD2	1.44	1.30
3:AB:152:SER:HB2	1:AD:135:ASN:OD1	1.29	1.30
1:LD:139:ARG:CB	1:DK:81:PHE:CE2	1.99	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CI:265:LEU:HD22	5:NO:231:ASN:OD1	1.28	1.30
1:I1:45:MET:SD	1:UE:13:LEU:HD13	1.72	1.30
1:R1:105:GLU:HA	1:CS:369:PHE:CE2	1.65	1.30
2:e4:11:MET:HG2	1:bQ:372:VAL:CG1	1.58	1.30
1:K7:13:LEU:HD13	1:CQ:45:MET:SD	1.72	1.30
1:i7:13:LEU:HD13	1:C8:45:MET:SD	1.72	1.30
3:AA:113:TYR:CD2	2:MK:7:MET:CE	2.13	1.30
1:DD:173:ALA:HB1	1:KS:33:TRP:CH2	1.66	1.30
1:KD:28:ASP:CB	1:IS:304:GLN:NE2	1.92	1.30
2:MD:2:TYR:CE2	1:KK:153:LEU:CD1	2.13	1.30
1:DJ:81:PHE:CE2	1:LP:139:ARG:HB2	1.37	1.30
1:DJ:119:LYS:CG	1:LP:37:ASP:O	1.76	1.30
1:DJ:126:VAL:HG12	1:LP:25:PHE:CZ	1.66	1.30
1:LK:45:MET:N	1:KP:14:VAL:HG22	1.45	1.30
2:XL:11:MET:HG2	1:YL:372:VAL:CG1	1.58	1.30
2:U1:1:MET:N	1:CJ:150:ASN:ND2	1.70	1.29
1:Z1:13:LEU:HD13	1:IR:45:MET:SD	1.72	1.29
1:Q3:45:MET:SD	1:Z4:13:LEU:HD13	1.72	1.29
1:f4:45:MET:SD	1:B6:13:LEU:HD13	1.72	1.29
1:i4:365:HIS:CD2	2:HD:10:MET:SD	2.24	1.29
1:I8:45:MET:SD	1:KR:13:LEU:HD13	1.72	1.29
3:A9:104:GLN:N	1:KK:78:GLU:CD	1.89	1.29
5:NB:230:SER:CA	5:CF:266:THR:HB	1.53	1.29
1:AD:304:GLN:NE2	1:KK:28:ASP:HB3	1.46	1.29
1:KD:47:GLU:OE1	1:KS:22:LEU:N	1.59	1.29
3:AI:112:ILE:HG22	2:MJ:5:ASN:O	1.15	1.29
1:KJ:99:MET:O	1:JS:25:PHE:CD1	1.84	1.29
1:LJ:25:PHE:CZ	1:CS:126:VAL:HG12	1.66	1.29
1:BL:13:LEU:HD13	1:YR:45:MET:SD	1.72	1.29
1:C1:45:MET:SD	1:dQ:13:LEU:HD13	1.72	1.29
1:B1:13:LEU:HD13	1:Y8:45:MET:SD	1.72	1.29
1:I1:118:THR:HG21	1:Y6:53:TYR:O	1.27	1.29
1:R4:105:GLU:HA	1:DD:369:PHE:CE2	1.65	1.29
1:g4:105:GLU:HA	1:DK:369:PHE:CE2	1.65	1.29
1:g8:367:PRO:HG2	1:KS:375:TRP:CE3	1.50	1.29
3:AA:114:PHE:CG	2:MK:8:ARG:HA	1.67	1.29
1:AD:297:LEU:HD11	1:KK:29:TYR:OH	1.17	1.29
1:DD:126:VAL:HG12	1:KS:25:PHE:CZ	1.66	1.29
1:LD:45:MET:N	1:KK:14:VAL:HG22	1.45	1.29
1:LD:222:SER:HA	1:YG:38:LYS:CD	1.59	1.29
1:BE:105:GLU:CB	1:BJ:109:LEU:HD13	1.61	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:100:ASP:HA	1:CP:25:PHE:O	1.27	1.29
1:AJ:62:LEU:CB	1:KJ:88:GLU:HB2	1.51	1.29
1:KJ:47:GLU:CD	1:LP:22:LEU:N	1.80	1.29
5:N2:230:SER:CA	5:CB:266:THR:HB	1.53	1.29
1:C4:45:MET:SD	1:BG:13:LEU:HD13	1.72	1.29
1:C6:45:MET:SD	1:iG:13:LEU:HD13	1.72	1.29
3:A9:158:GLU:OE2	1:AK:140:PHE:CE1	1.83	1.29
3:AA:112:ILE:O	2:MK:13:THR:HB	1.27	1.29
1:AD:140:PHE:CA	3:AF:29:ARG:CD	1.96	1.29
1:KD:25:PHE:CD1	1:JS:99:MET:O	1.84	1.29
1:KD:29:TYR:OH	1:IS:297:LEU:HD11	1.17	1.29
1:LD:33:TRP:CZ3	1:DK:173:ALA:HB3	1.67	1.29
1:LD:58:ILE:HG21	1:KK:55:PHE:CD2	1.68	1.29
1:BE:221:ALA:CA	1:CP:38:LYS:HD3	1.47	1.29
5:CI:266:THR:HB	5:NO:230:SER:CA	1.53	1.29
1:AJ:297:LEU:CD1	1:JS:29:TYR:OH	1.79	1.29
1:KJ:30:SER:HB3	1:KP:98:ASN:ND2	1.43	1.29
1:KJ:80:ASP:HB3	3:AN:64:GLN:CA	1.61	1.29
1:LK:25:PHE:CZ	1:DP:126:VAL:HG12	1.66	1.29
5:EM:140:ASP:CB	5:CM:139:LYS:CE	1.97	1.29
3:AO:33:ASN:CB	1:IS:135:ASN:OD1	1.72	1.29
1:T1:30:SER:CA	1:CJ:315:ALA:HB2	1.61	1.29
1:f1:45:MET:SD	1:B3:13:LEU:CD1	2.21	1.29
1:B4:13:LEU:CD1	1:aE:45:MET:SD	2.21	1.29
1:h4:13:LEU:HD13	1:gG:45:MET:SD	1.72	1.29
1:i4:144:THR:CA	1:CD:82:ILE:HD11	1.63	1.29
1:I7:45:MET:SD	1:iR:13:LEU:HD13	1.72	1.29
1:K7:13:LEU:CD1	1:CQ:45:MET:SD	2.21	1.29
1:Q7:45:MET:SD	1:aL:13:LEU:CD1	2.21	1.29
1:a7:13:LEU:HD13	1:KE:45:MET:SD	1.72	1.29
1:a8:13:LEU:HD13	1:bQ:45:MET:SD	1.72	1.29
1:LD:375:TRP:CE3	1:YG:367:PRO:HG2	1.50	1.29
1:KJ:365:HIS:CD2	1:AP:361:LYS:CE	2.16	1.29
1:AK:297:LEU:CD1	1:KP:29:TYR:OH	1.79	1.29
2:HK:10:MET:SD	1:jR:365:HIS:CD2	2.24	1.29
1:LK:31:LYS:CD	1:DP:316:VAL:HG13	1.47	1.29
1:LK:58:ILE:HG21	1:KP:55:PHE:CD2	1.68	1.29
1:IL:45:MET:SD	1:KQ:13:LEU:CD1	2.21	1.29
1:h1:13:LEU:HD13	1:QG:45:MET:SD	1.72	1.29
3:A2:112:ILE:HG21	2:MD:5:ASN:CG	1.57	1.29
3:A2:154:ILE:HG22	1:AK:54:LEU:CB	1.46	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B4:13:LEU:HD13	1:aE:45:MET:SD	1.72	1.29
1:Q4:45:MET:SD	1:KL:13:LEU:HD13	1.72	1.29
1:R4:105:GLU:CB	1:BD:109:LEU:HD13	1.61	1.29
1:K6:13:LEU:HD13	1:CL:45:MET:SD	1.72	1.29
1:C8:118:THR:HG21	1:AE:53:TYR:O	1.27	1.29
1:a8:13:LEU:CD1	1:bQ:45:MET:SD	2.21	1.29
1:DD:104:ASN:HD21	5:DF:25:ARG:NH2	1.28	1.29
1:KD:30:SER:HB3	1:JS:98:ASN:ND2	1.43	1.29
1:LD:140:PHE:O	1:DK:84:GLN:HG3	1.17	1.29
1:FE:144:THR:CA	1:CP:82:ILE:HD11	1.63	1.29
1:AJ:304:GLN:NE2	1:JS:28:ASP:HB3	1.46	1.29
1:BL:13:LEU:CD1	1:YR:45:MET:SD	2.21	1.29
1:B1:13:LEU:CD1	1:Y8:45:MET:SD	2.21	1.28
1:R1:221:ALA:HA	1:CJ:38:LYS:CD	1.59	1.28
1:S1:13:LEU:CD1	1:Q8:45:MET:SD	2.21	1.28
1:I3:45:MET:SD	1:SL:13:LEU:CD1	2.21	1.28
1:K4:13:LEU:HD13	1:QL:45:MET:SD	1.72	1.28
1:f4:45:MET:SD	1:B6:13:LEU:CD1	2.21	1.28
1:h4:13:LEU:CD1	1:gG:45:MET:SD	2.21	1.28
1:K6:13:LEU:CD1	1:CL:45:MET:SD	2.21	1.28
1:I7:45:MET:SD	1:iR:13:LEU:CD1	2.21	1.28
1:I8:45:MET:SD	1:KR:13:LEU:CD1	2.21	1.28
1:ME:13:LEU:CD1	1:QQ:45:MET:SD	2.21	1.28
5:NF:231:ASN:OD1	5:CM:265:LEU:HD22	1.28	1.28
1:BJ:38:LYS:HE3	1:gL:221:ALA:O	1.24	1.28
1:KJ:55:PHE:CD2	1:LP:58:ILE:HG21	1.68	1.28
1:AK:312:PRO:HD3	1:KP:27:HIS:CD2	1.68	1.28
1:AK:361:LYS:CE	1:KP:365:HIS:CD2	2.16	1.28
1:LK:33:TRP:CZ3	1:DP:173:ALA:HB3	1.67	1.28
1:LK:140:PHE:O	1:DP:84:GLN:HG3	1.17	1.28
1:Q1:45:MET:SD	1:KG:13:LEU:HD13	1.72	1.28
1:Q1:45:MET:SD	1:KG:13:LEU:CD1	2.21	1.28
1:Z1:13:LEU:CD1	1:IR:45:MET:SD	2.21	1.28
1:K3:13:LEU:CD1	1:I4:45:MET:SD	2.21	1.28
1:Y3:81:PHE:CD2	1:BK:139:ARG:HD3	1.67	1.28
1:C4:53:TYR:O	1:CG:118:THR:HG21	1.27	1.28
1:I4:118:THR:HG21	1:QL:53:TYR:O	1.27	1.28
1:X4:45:MET:SD	1:BR:13:LEU:CD1	2.21	1.28
1:a6:13:LEU:CD1	1:SE:45:MET:SD	2.21	1.28
1:a6:13:LEU:HD13	1:SE:45:MET:SD	1.72	1.28
1:g6:33:TRP:N	1:LP:174:MET:HE3	1.29	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a7:13:LEU:CD1	1:KE:45:MET:SD	2.21	1.28
1:g7:45:MET:SD	1:CE:13:LEU:CD1	2.21	1.28
1:S8:13:LEU:CD1	1:IG:45:MET:SD	2.21	1.28
1:AD:145:LEU:HG	3:AF:37:GLU:OE1	1.30	1.28
1:DD:81:PHE:CE2	1:KS:139:ARG:HB2	1.37	1.28
1:DJ:316:VAL:CG1	1:LP:31:LYS:CD	1.93	1.28
1:KJ:29:TYR:OH	1:AP:297:LEU:CD1	1.79	1.28
1:LJ:31:LYS:HD3	1:CS:316:VAL:CG1	0.97	1.28
1:LJ:33:TRP:CZ3	1:CS:173:ALA:HB3	1.67	1.28
1:Q1:53:TYR:O	1:IG:118:THR:HG21	1.27	1.28
1:R1:105:GLU:CB	1:AS:109:LEU:HD13	1.61	1.28
1:C4:45:MET:SD	1:BG:13:LEU:CD1	2.21	1.28
1:K4:13:LEU:CD1	1:QL:45:MET:SD	2.21	1.28
1:X4:45:MET:SD	1:BR:13:LEU:HD13	1.72	1.28
1:f4:118:THR:HG21	1:gG:53:TYR:O	1.27	1.28
1:S6:14:VAL:CG2	1:CS:14:VAL:HG12	1.63	1.28
1:g6:45:MET:CB	1:CP:19:LYS:HG2	1.48	1.28
1:S7:13:LEU:HD13	1:QR:45:MET:SD	1.72	1.28
1:Y7:45:MET:SD	1:SQ:13:LEU:CD1	2.21	1.28
1:g7:45:MET:SD	1:CE:13:LEU:HD13	1.72	1.28
3:AB:152:SER:HB2	1:AD:135:ASN:CG	1.57	1.28
1:AD:297:LEU:CD1	1:KK:29:TYR:OH	1.79	1.28
1:DD:173:ALA:HB3	1:KS:33:TRP:CZ3	1.67	1.28
1:KJ:153:LEU:CD1	2:MP:2:TYR:CE2	2.13	1.28
3:AN:104:GLN:CD	2:MP:9:SER:HA	1.58	1.28
1:YQ:81:PHE:CD2	1:AS:139:ARG:HD3	1.67	1.28
1:g4:105:GLU:CB	1:BK:109:LEU:HD13	1.61	1.28
4:B9:30:LEU:H	5:EC:64:TRP:NE1	1.32	1.28
1:DD:82:ILE:HD12	1:KS:144:THR:O	1.11	1.28
1:BE:221:ALA:HA	1:CP:38:LYS:CD	1.59	1.28
1:cE:13:LEU:HD13	1:CG:45:MET:SD	1.72	1.28
1:AJ:312:PRO:HD3	1:JS:27:HIS:CD2	1.68	1.28
1:LJ:22:LEU:N	1:JS:47:GLU:CD	1.80	1.28
1:LJ:33:TRP:CH2	1:CS:173:ALA:HB1	1.66	1.28
1:LJ:58:ILE:HG21	1:JS:55:PHE:CD2	1.68	1.28
1:LJ:153:LEU:HD22	2:ES:3:GLU:O	1.19	1.28
2:MJ:11:MET:HE1	1:JS:372:VAL:CA	1.20	1.28
1:YL:45:MET:SD	1:SR:13:LEU:CD1	2.21	1.28
1:f1:45:MET:SD	1:B3:13:LEU:HD13	1.72	1.28
1:I3:45:MET:SD	1:SL:13:LEU:HD13	1.72	1.28
1:S3:13:LEU:CD1	1:CR:45:MET:SD	2.21	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I6:45:MET:SD	1:aR:13:LEU:CD1	2.21	1.28
1:I6:45:MET:SD	1:aR:13:LEU:HD13	1.72	1.28
1:i6:20:SER:CB	1:DJ:47:GLU:HB3	1.61	1.28
1:i8:14:VAL:CG2	1:DD:14:VAL:HG12	1.64	1.28
1:KD:27:HIS:CD2	1:IS:312:PRO:HD3	1.68	1.28
1:KD:28:ASP:HB3	1:IS:304:GLN:NE2	1.46	1.28
1:KD:30:SER:C	1:IS:315:ALA:HA	1.59	1.28
1:DE:81:PHE:CD2	1:BP:139:ARG:HD3	1.67	1.28
1:AJ:82:ILE:CG1	1:JS:143:GLN:C	2.07	1.28
1:DJ:173:ALA:HB1	1:LP:33:TRP:CH2	1.66	1.28
2:MK:2:TYR:CE2	1:KP:153:LEU:CD1	2.13	1.28
1:BQ:13:LEU:CD1	1:gR:45:MET:SD	2.21	1.28
1:BQ:13:LEU:HD13	1:gR:45:MET:SD	1.72	1.28
1:S1:13:LEU:HD13	1:Q8:45:MET:SD	1.72	1.27
3:A2:33:ASN:ND2	1:AK:58:ILE:CG1	1.89	1.27
1:Q3:45:MET:SD	1:Z4:13:LEU:CD1	2.21	1.27
1:S3:13:LEU:HD13	1:CR:45:MET:SD	1.72	1.27
1:b3:221:ALA:O	1:BD:38:LYS:HE3	1.24	1.27
1:S4:13:LEU:CD1	1:IQ:45:MET:SD	2.21	1.27
1:Y6:118:THR:HG21	1:SE:53:TYR:O	1.27	1.27
1:B7:14:VAL:CG2	1:DP:14:VAL:HG12	1.64	1.27
1:Q7:45:MET:SD	1:aL:13:LEU:HD13	1.72	1.27
1:B8:13:LEU:CD1	1:AE:45:MET:SD	2.21	1.27
1:AD:315:ALA:HA	1:KK:30:SER:C	1.59	1.27
2:FD:3:GLU:O	1:KS:153:LEU:HD22	1.19	1.27
1:KD:55:PHE:CD2	1:KS:58:ILE:HG21	1.68	1.27
1:ME:13:LEU:HD13	1:QQ:45:MET:SD	1.72	1.27
1:AJ:361:LYS:CE	1:JS:365:HIS:CD2	2.16	1.27
1:CK:315:ALA:HB2	1:jR:30:SER:CA	1.61	1.27
1:LK:22:LEU:N	1:KP:47:GLU:CD	1.80	1.27
1:LK:33:TRP:CH2	1:DP:173:ALA:HB1	1.66	1.27
1:IL:45:MET:SD	1:KQ:13:LEU:HD13	1.72	1.27
3:AO:36:LEU:CD2	1:IS:145:LEU:HD11	1.63	1.27
1:X1:45:MET:SD	1:K8:13:LEU:CD1	2.21	1.27
5:C2:265:LEU:HD22	5:N9:231:ASN:OD1	1.28	1.27
1:C3:45:MET:SD	1:SG:13:LEU:CD1	2.21	1.27
1:R4:221:ALA:HA	1:BS:38:LYS:CD	1.59	1.27
1:Q6:142:PHE:O	1:LJ:82:ILE:HG13	1.33	1.27
1:i7:13:LEU:CD1	1:C8:45:MET:SD	2.21	1.27
1:S8:13:LEU:HD13	1:IG:45:MET:SD	1.72	1.27
1:Y8:118:THR:HG21	1:bQ:53:TYR:O	1.27	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:33:TRP:N	1:KS:174:MET:HE3	1.29	1.27
4:BA:30:LEU:H	5:EH:64:TRP:NE1	1.32	1.27
1:AD:361:LYS:CE	1:KK:365:HIS:CD2	2.16	1.27
1:CD:49:PHE:CB	1:YG:137:ASP:OD2	1.83	1.27
1:KD:14:VAL:HG22	1:KS:45:MET:N	1.45	1.27
1:cE:13:LEU:CD1	1:CG:45:MET:SD	2.21	1.27
1:AJ:82:ILE:CG1	1:JS:144:THR:N	1.98	1.27
1:DJ:82:ILE:HD12	1:LP:144:THR:O	1.11	1.27
1:LK:153:LEU:HD22	2:FP:3:GLU:O	1.19	1.27
1:I1:45:MET:SD	1:UE:13:LEU:CD1	2.21	1.27
1:K1:13:LEU:CD1	1:Y6:45:MET:SD	2.21	1.27
1:R1:105:GLU:H	1:AS:110:LYS:NZ	1.33	1.27
5:E2:36:ALA:HA	3:AF:194:ASN:OD1	1.28	1.27
5:E2:66:TYR:CA	5:EB:10:TYR:OH	1.83	1.27
1:K3:13:LEU:HD13	1:I4:45:MET:SD	1.72	1.27
3:A5:149:GLN:OE1	1:AJ:145:LEU:HB3	1.26	1.27
5:N5:231:ASN:OD1	5:CN:265:LEU:HD22	1.28	1.27
1:C7:137:ASP:OD2	1:CK:49:PHE:HB3	1.24	1.27
1:C7:142:PHE:O	1:LK:82:ILE:HG13	1.33	1.27
1:g7:53:TYR:O	1:AE:118:THR:HG21	1.27	1.27
5:C9:266:THR:HB	5:NA:230:SER:CA	1.53	1.27
1:KD:29:TYR:OH	1:IS:297:LEU:CD1	1.79	1.27
1:FE:50:VAL:N	1:BP:137:ASP:OD2	1.68	1.27
1:aG:20:SER:CB	1:DK:47:GLU:HB3	1.61	1.27
5:EH:10:TYR:OH	5:EN:66:TYR:CA	1.83	1.27
1:DJ:173:ALA:HB3	1:LP:33:TRP:CZ3	1.67	1.27
1:KJ:28:ASP:CB	1:AP:304:GLN:HE22	1.46	1.27
1:LJ:25:PHE:HE1	1:CS:126:VAL:CG1	1.43	1.27
1:LJ:45:MET:N	1:JS:14:VAL:HG22	1.45	1.27
1:YL:45:MET:SD	1:SR:13:LEU:HD13	1.72	1.27
5:DO:25:ARG:CZ	1:CS:100:ASP:OD2	1.82	1.27
1:i4:31:LYS:CA	1:CD:314:GLY:O	1.83	1.27
1:C7:367:PRO:HG2	1:LK:375:TRP:CE3	1.50	1.27
1:Y7:45:MET:SD	1:SQ:13:LEU:HD13	1.72	1.27
1:B8:13:LEU:HD13	1:AE:45:MET:SD	1.72	1.27
5:EA:10:TYR:OH	5:EC:66:TYR:CA	1.83	1.27
1:KD:25:PHE:HD1	1:JS:99:MET:O	1.13	1.27
1:KJ:144:THR:N	1:AP:82:ILE:CG1	1.98	1.27
1:LJ:22:LEU:CD2	1:JS:47:GLU:OE1	1.83	1.27
1:LK:143:GLN:C	1:DP:82:ILE:CD1	2.07	1.27
1:K1:13:LEU:HD13	1:Y6:45:MET:SD	1.72	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X1:45:MET:SD	1:K8:13:LEU:HD13	1.72	1.27
5:E2:64:TRP:NE1	4:BF:30:LEU:H	1.32	1.27
1:Q4:45:MET:SD	1:KL:13:LEU:CD1	2.21	1.27
1:S4:13:LEU:HD13	1:IQ:45:MET:SD	1.72	1.27
1:S4:100:ASP:HA	1:BS:25:PHE:O	1.27	1.27
1:T4:30:SER:CA	1:BS:315:ALA:HB2	1.62	1.27
1:T4:50:VAL:N	1:AS:137:ASP:OD2	1.68	1.27
5:E5:66:TYR:CA	5:EN:10:TYR:OH	1.83	1.27
1:S6:20:SER:CB	1:CS:47:GLU:HB3	1.61	1.27
1:Q7:118:THR:HG21	1:QR:53:TYR:O	1.27	1.27
1:g8:137:ASP:OD2	1:BS:49:PHE:CB	1.83	1.27
1:LD:314:GLY:HA3	1:YG:31:LYS:CG	1.65	1.27
1:FE:31:LYS:CA	1:CP:314:GLY:O	1.83	1.27
1:KJ:365:HIS:NE2	1:AP:361:LYS:HE3	1.50	1.27
1:AK:304:GLN:HE22	1:KP:28:ASP:CB	1.46	1.27
1:I1:53:TYR:O	1:SE:118:THR:HG21	1.27	1.26
1:C3:45:MET:SD	1:SG:13:LEU:HD13	1.72	1.26
1:AD:312:PRO:HD3	1:KK:27:HIS:CD2	1.68	1.26
1:KD:365:HIS:CD2	1:IS:361:LYS:CE	2.16	1.26
1:KJ:27:HIS:CD2	1:AP:312:PRO:HD3	1.68	1.26
1:LJ:140:PHE:O	1:CS:84:GLN:HG3	1.17	1.26
1:AK:304:GLN:NE2	1:KP:28:ASP:HB3	1.46	1.26
1:CK:82:ILE:HD11	1:jR:144:THR:CA	1.63	1.26
1:h1:13:LEU:CD1	1:QG:45:MET:SD	2.21	1.26
1:C4:118:THR:HG21	1:aE:53:TYR:O	1.27	1.26
1:g4:223:GLY:HA2	1:CD:53:TYR:CZ	1.71	1.26
1:B7:20:SER:CB	1:DP:47:GLU:HB3	1.61	1.26
1:g8:81:PHE:HD2	1:DD:139:ARG:CD	1.47	1.26
3:A9:104:GLN:HB2	1:KK:78:GLU:OE1	1.20	1.26
3:A9:194:ASN:OD1	5:EC:36:ALA:HA	1.28	1.26
5:EC:10:TYR:OH	5:EH:66:TYR:CA	1.83	1.26
1:AD:57:LYS:CB	3:AF:154:ILE:CD1	2.12	1.26
1:KD:144:THR:N	1:IS:82:ILE:CG1	1.98	1.26
1:LD:33:TRP:CH2	1:DK:173:ALA:HB1	1.66	1.26
1:KJ:153:LEU:HD11	2:MP:2:TYR:CD2	1.69	1.26
1:LJ:137:ASP:OD2	1:JS:50:VAL:HG23	1.28	1.26
1:LK:25:PHE:HA	1:BP:99:MET:O	1.14	1.26
3:AO:154:ILE:CB	1:IS:145:LEU:HD22	1.41	1.26
1:C1:53:TYR:O	1:bQ:118:THR:HG21	1.27	1.26
1:T1:31:LYS:CA	1:CJ:314:GLY:O	1.83	1.26
1:T1:50:VAL:N	1:BJ:137:ASP:OD2	1.68	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f1:62:LEU:HD11	2:HQ:53:PHE:C	1.61	1.26
1:I3:62:LEU:HD11	2:X8:53:PHE:C	1.61	1.26
2:P3:53:PHE:C	1:Q8:62:LEU:HD11	1.61	1.26
1:Q3:62:LEU:HD11	2:P8:53:PHE:C	1.61	1.26
3:A5:155:GLU:OE1	1:AJ:136:ASN:HA	1.32	1.26
5:E5:36:ALA:HA	3:AH:194:ASN:OD1	1.28	1.26
1:C6:53:TYR:O	1:gG:118:THR:HG21	1.27	1.26
1:Q6:137:ASP:OD2	1:CJ:49:PHE:CB	1.83	1.26
1:i6:14:VAL:CG2	1:DJ:14:VAL:HG12	1.64	1.26
1:g7:118:THR:HG21	1:C8:53:TYR:O	1.27	1.26
4:BC:30:LEU:H	5:EN:64:TRP:NE1	1.32	1.26
1:KD:143:GLN:C	1:IS:82:ILE:CG1	2.07	1.26
5:NF:230:SER:CA	5:CM:266:THR:HB	1.53	1.26
1:AK:82:ILE:CG1	1:KP:143:GLN:C	2.07	1.26
1:CP:265:ASP:OD2	2:EP:41:TYR:HD1	0.97	1.26
1:C1:45:MET:SD	1:dQ:13:LEU:CD1	2.21	1.26
3:A2:208:LYS:O	4:BA:250:ILE:CD1	1.84	1.26
5:E2:10:TYR:OH	5:E9:66:TYR:CA	1.83	1.26
1:R4:105:GLU:H	1:BD:110:LYS:NZ	1.33	1.26
1:C6:45:MET:SD	1:iG:13:LEU:CD1	2.21	1.26
1:I6:118:THR:HG21	1:CL:53:TYR:O	1.27	1.26
1:I7:62:LEU:HD11	2:iQ:53:PHE:C	1.61	1.26
1:S7:13:LEU:CD1	1:QR:45:MET:SD	2.21	1.26
1:i8:20:SER:CB	1:DD:47:GLU:HB3	1.61	1.26
1:KD:365:HIS:NE2	1:IS:361:LYS:HE3	1.50	1.26
2:ND:55:GLY:C	2:FK:2:TYR:CG	2.14	1.26
2:hE:53:PHE:C	1:CR:62:LEU:HD11	1.61	1.26
5:EF:66:TYR:CA	5:EM:10:TYR:OH	1.83	1.26
2:nG:53:PHE:C	1:CL:62:LEU:HD11	1.61	1.26
1:IL:62:LEU:HD11	2:fR:53:PHE:C	1.61	1.26
1:C1:62:LEU:HD11	2:H6:53:PHE:C	1.61	1.26
2:H1:53:PHE:C	1:C6:62:LEU:HD11	1.61	1.26
2:e1:53:PHE:C	1:I6:62:LEU:HD11	1.61	1.26
2:U4:1:MET:N	1:BS:150:ASN:ND2	1.70	1.26
5:E5:10:TYR:OH	5:EI:66:TYR:CA	1.83	1.26
2:H7:53:PHE:C	1:gR:62:LEU:HD11	1.61	1.26
3:A9:208:LYS:O	4:BC:250:ILE:CD1	1.84	1.26
5:EB:66:TYR:CA	5:EF:10:TYR:OH	1.83	1.26
1:AD:82:ILE:CG1	1:KK:143:GLN:C	2.07	1.26
1:KD:47:GLU:OE1	1:KS:22:LEU:CD2	1.83	1.26
3:AI:194:ASN:OD1	5:EM:36:ALA:HA	1.28	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:99:MET:O	1:JS:25:PHE:HD1	1.13	1.26
2:MJ:2:TYR:CD2	1:JS:153:LEU:HD11	1.69	1.26
3:AM:114:PHE:CA	2:LS:13:THR:OG1	1.84	1.26
5:NM:231:ASN:OD1	5:CO:265:LEU:HD22	1.28	1.26
1:I1:62:LEU:HD11	2:PG:53:PHE:C	1.61	1.25
2:P4:53:PHE:C	1:C8:62:LEU:HD11	1.61	1.25
3:A5:208:LYS:O	4:BO:250:ILE:CD1	1.84	1.25
1:g6:137:ASP:OD2	1:CP:49:PHE:CB	1.83	1.25
2:P7:53:PHE:C	1:bQ:62:LEU:HD11	1.61	1.25
1:Q7:53:TYR:O	1:YL:118:THR:HG21	1.27	1.25
5:EB:64:TRP:NE1	4:BM:30:LEU:H	1.32	1.25
2:FD:2:TYR:CG	2:MS:55:GLY:C	2.13	1.25
1:gG:62:LEU:HD11	2:HL:53:PHE:C	1.61	1.25
4:BI:250:ILE:CD1	3:AN:208:LYS:O	1.84	1.25
1:KJ:47:GLU:OE1	1:LP:22:LEU:CD2	1.83	1.25
1:CK:314:GLY:O	1:jR:31:LYS:CA	1.83	1.25
2:MK:2:TYR:CD2	1:KP:153:LEU:HD11	1.69	1.25
2:PL:53:PHE:C	1:YR:62:LEU:HD11	1.61	1.25
1:YL:53:TYR:O	1:QR:118:THR:HG21	1.27	1.25
5:DO:25:ARG:NH2	1:CS:100:ASP:CG	1.80	1.25
2:m1:53:PHE:C	1:CQ:62:LEU:HD11	1.61	1.25
1:Q4:53:TYR:O	1:IL:118:THR:HG21	1.27	1.25
1:T4:31:LYS:O	1:BS:125:ILE:HD11	1.35	1.25
2:W4:53:PHE:C	1:g8:62:LEU:HD11	1.61	1.25
1:Q6:33:TRP:N	1:LJ:174:MET:HE3	1.29	1.25
1:Q6:137:ASP:OD2	1:CJ:49:PHE:HB3	1.24	1.25
1:g6:31:LYS:CG	1:LP:314:GLY:HA3	1.65	1.25
1:g8:142:PHE:O	1:KS:82:ILE:HG13	1.33	1.25
4:B9:250:ILE:CD1	3:AB:208:LYS:O	1.84	1.25
3:AA:208:LYS:O	4:BH:250:ILE:CD1	1.84	1.25
1:DD:126:VAL:CG1	1:KS:25:PHE:HE1	1.44	1.25
1:KD:100:ASP:HA	1:KK:25:PHE:CA	1.67	1.25
1:LD:153:LEU:HD22	2:FK:3:GLU:O	1.19	1.25
4:BF:250:ILE:CD1	3:AO:208:LYS:O	1.84	1.25
1:aG:14:VAL:CG2	1:DK:14:VAL:HG12	1.64	1.25
5:CH:265:LEU:HD22	5:NN:231:ASN:OD1	1.28	1.25
3:AI:208:LYS:O	4:BM:250:ILE:CD1	1.84	1.25
1:KJ:30:SER:C	1:AP:315:ALA:HA	1.59	1.25
1:LJ:58:ILE:CG2	1:JS:55:PHE:CE2	2.19	1.25
1:AK:315:ALA:HA	1:KP:30:SER:C	1.59	1.25
1:LK:28:ASP:CB	1:DP:304:GLN:NE2	2.00	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EM:66:TYR:CA	5:EO:10:TYR:OH	1.83	1.25
3:AN:104:GLN:CG	2:MP:9:SER:CA	1.92	1.25
1:C4:62:LEU:HD11	2:XG:53:PHE:C	1.61	1.25
1:R4:223:GLY:HA2	1:BS:53:TYR:CZ	1.71	1.25
4:B5:250:ILE:CD1	3:AH:208:LYS:O	1.84	1.25
1:C7:137:ASP:OD2	1:CK:49:PHE:CB	1.83	1.25
1:I7:53:TYR:O	1:gR:118:THR:HG21	1.27	1.25
2:X7:53:PHE:C	1:QQ:62:LEU:HD11	1.61	1.25
5:NB:231:ASN:OD1	5:CF:265:LEU:HD22	1.28	1.25
1:BD:99:MET:O	1:KS:25:PHE:HA	1.14	1.25
1:DD:304:GLN:NE2	1:KS:28:ASP:CB	2.00	1.25
1:KD:153:LEU:HD11	2:LS:2:TYR:CD2	1.69	1.25
1:LD:37:ASP:O	1:DK:119:LYS:HG3	1.09	1.25
1:BE:105:GLU:H	1:BJ:110:LYS:NZ	1.33	1.25
1:AJ:315:ALA:HA	1:JS:30:SER:C	1.59	1.25
1:AJ:361:LYS:HE3	1:JS:365:HIS:NE2	1.50	1.25
1:DJ:302:ASP:HB2	1:LP:29:TYR:OH	1.08	1.25
1:KD:28:ASP:CB	1:IS:304:GLN:HE22	1.45	1.25
5:EF:36:ALA:HA	3:AO:194:ASN:OD1	1.28	1.25
1:KJ:25:PHE:HD1	1:KP:99:MET:O	1.13	1.25
1:KJ:55:PHE:CE2	1:LP:58:ILE:CG2	2.19	1.25
1:KJ:143:GLN:C	1:AP:82:ILE:CG1	2.07	1.25
2:NK:55:GLY:C	2:FP:2:TYR:CG	2.14	1.25
1:T1:31:LYS:O	1:CJ:125:ILE:HD11	1.35	1.25
1:X1:62:LEU:HD11	2:P6:53:PHE:C	1.61	1.25
1:I3:118:THR:HG21	1:I4:53:TYR:O	1.27	1.25
1:g4:105:GLU:H	1:BK:110:LYS:NZ	1.33	1.25
3:A5:158:GLU:OE1	1:AJ:136:ASN:HB3	1.07	1.25
1:AD:82:ILE:CG1	1:KK:144:THR:N	1.98	1.25
1:KD:55:PHE:CE2	1:KS:58:ILE:CG2	2.19	1.25
1:KD:365:HIS:CD2	1:IS:361:LYS:HE2	1.71	1.25
1:DE:221:ALA:O	1:BP:38:LYS:HE3	1.24	1.25
1:BE:223:GLY:HA2	1:CP:53:TYR:CZ	1.71	1.25
2:HG:53:PHE:C	1:YL:62:LEU:HD11	1.61	1.25
1:LJ:144:THR:O	1:CS:82:ILE:HD12	1.11	1.25
3:AM:112:ILE:HB	2:LS:19:ARG:N	1.48	1.25
1:BP:110:LYS:NZ	1:hR:105:GLU:H	1.33	1.25
2:P1:53:PHE:C	1:IG:62:LEU:HD11	1.61	1.25
1:R1:223:GLY:HA2	1:CJ:53:TYR:CZ	1.71	1.25
1:S1:100:ASP:HA	1:CJ:25:PHE:O	1.27	1.25
1:f1:118:THR:HG21	1:QG:53:TYR:O	1.27	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H4:53:PHE:C	1:QG:62:LEU:HD11	1.61	1.25
1:Q4:62:LEU:HD11	2:n8:53:PHE:C	1.61	1.25
2:l4:53:PHE:C	1:YG:62:LEU:HD11	1.61	1.25
5:E5:64:TRP:NE1	4:BH:30:LEU:H	1.32	1.25
1:S6:20:SER:HB2	1:CS:47:GLU:CB	1.64	1.25
1:C7:62:LEU:HD11	2:mR:53:PHE:C	1.61	1.25
1:Q8:118:THR:HG21	1:IG:53:TYR:O	1.27	1.25
5:EB:36:ALA:HA	3:AM:194:ASN:OD1	1.28	1.25
2:MD:2:TYR:CD2	1:KK:153:LEU:HD11	1.69	1.25
5:EI:10:TYR:OH	5:EO:66:TYR:CA	1.82	1.25
1:AJ:43:ASN:O	5:DN:25:ARG:NH1	1.70	1.25
2:FJ:2:TYR:CG	2:NP:55:GLY:C	2.13	1.25
1:KJ:149:THR:CG2	2:MP:15:TYR:HB2	1.67	1.25
1:AK:82:ILE:CG1	1:KP:144:THR:N	1.98	1.25
1:LK:22:LEU:CD2	1:KP:47:GLU:OE1	1.83	1.25
1:I4:62:LEU:HD11	2:H8:53:PHE:C	1.61	1.24
1:X4:62:LEU:HD11	2:f8:53:PHE:C	1.61	1.24
3:A5:194:ASN:OD1	5:EO:36:ALA:HA	1.28	1.24
2:n6:53:PHE:C	1:AE:62:LEU:HD11	1.61	1.24
1:g8:31:LYS:CG	1:KS:314:GLY:HA3	1.65	1.24
3:A9:33:ASN:ND2	1:AK:370:ASP:OD1	1.68	1.24
3:A9:104:GLN:CA	1:KK:78:GLU:OE2	1.83	1.24
5:E9:10:TYR:OH	5:EA:66:TYR:CA	1.83	1.24
1:LD:139:ARG:HB2	1:DK:81:PHE:CE2	1.37	1.24
1:aE:62:LEU:HD11	2:HR:53:PHE:C	1.61	1.24
3:AI:208:LYS:CB	4:BM:251:TRP:HD1	1.50	1.24
4:BI:30:LEU:H	5:EM:64:TRP:NE1	1.32	1.24
1:AJ:304:GLN:HE22	1:JS:28:ASP:CB	1.46	1.24
1:DJ:121:TYR:CE1	1:LP:36:GLY:HA3	1.72	1.24
1:KJ:25:PHE:CA	1:KP:100:ASP:HA	1.67	1.24
2:MJ:15:TYR:HB2	1:JS:149:THR:CG2	1.67	1.24
2:MJ:15:TYR:O	1:JS:145:LEU:HD23	1.33	1.24
1:CK:150:ASN:ND2	2:kR:1:MET:N	1.71	1.24
3:AM:109:LYS:N	2:LS:19:ARG:HH22	1.35	1.24
1:R1:123:ASN:ND2	1:CJ:21:ALA:HB2	1.52	1.24
3:A2:208:LYS:CB	4:BA:251:TRP:HD1	1.50	1.24
4:B2:30:LEU:H	5:EA:64:TRP:NE1	1.32	1.24
1:Y6:62:LEU:HD11	2:RE:53:PHE:C	1.61	1.24
2:f7:53:PHE:C	1:IR:62:LEU:HD11	1.61	1.24
5:E9:36:ALA:HA	3:AB:194:ASN:OD1	1.28	1.24
3:AC:208:LYS:O	4:BN:250:ILE:CD1	1.84	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:58:ILE:CG2	1:KK:55:PHE:CE2	2.19	1.24
2:MD:15:TYR:O	1:KK:145:LEU:HD23	1.33	1.24
1:DJ:119:LYS:HG3	1:LP:37:ASP:O	1.09	1.24
1:KJ:145:LEU:HD23	2:MP:15:TYR:O	1.33	1.24
2:NJ:55:GLY:C	2:ES:2:TYR:CG	2.14	1.24
3:AO:36:LEU:CD2	1:IS:145:LEU:CD1	2.12	1.24
3:AO:64:GLN:CA	1:IS:146:ALA:HB1	1.62	1.24
1:S4:105:GLU:HB2	1:KS:109:LEU:CD2	1.64	1.24
1:C7:32:SER:OG	1:LK:316:VAL:HG21	1.36	1.24
4:B9:251:TRP:HD1	3:AB:208:LYS:CB	1.50	1.24
3:AA:208:LYS:CB	4:BH:251:TRP:HD1	1.50	1.24
4:BB:250:ILE:CD1	3:AM:208:LYS:O	1.84	1.24
5:CC:265:LEU:HD22	5:NH:231:ASN:OD1	1.28	1.24
1:AD:361:LYS:HE3	1:KK:365:HIS:NE2	1.50	1.24
5:EI:64:TRP:NE1	4:BN:30:LEU:H	1.32	1.24
1:LJ:36:GLY:HA3	1:CS:121:TYR:CE1	1.72	1.24
1:LJ:47:GLU:CD	1:JS:22:LEU:N	1.85	1.24
1:AK:170:GLU:OE2	1:KP:33:TRP:HE3	0.91	1.24
1:LK:36:GLY:HA3	1:DP:121:TYR:CE1	1.72	1.24
2:XL:53:PHE:C	1:QR:62:LEU:HD11	1.61	1.24
2:W1:53:PHE:C	1:Q6:62:LEU:HD11	1.61	1.24
1:T4:31:LYS:CA	1:BS:314:GLY:O	1.83	1.24
1:g4:116:MET:HE1	1:CD:54:LEU:CD2	1.66	1.24
1:g6:62:LEU:HD11	2:JE:53:PHE:C	1.61	1.24
1:C7:31:LYS:CG	1:LK:314:GLY:HA3	1.65	1.24
1:C7:33:TRP:N	1:LK:174:MET:HE3	1.29	1.24
1:Q7:62:LEU:HD11	2:XQ:53:PHE:C	1.61	1.24
1:Y7:62:LEU:HD11	2:PR:53:PHE:C	1.61	1.24
1:g8:57:LYS:CD	1:BS:143:GLN:NE2	1.76	1.24
3:A9:208:LYS:CB	4:BC:251:TRP:HD1	1.50	1.24
1:LD:36:GLY:HA3	1:DK:121:TYR:CE1	1.72	1.24
1:CE:108:MET:HG3	1:CP:366:ASN:OD1	1.37	1.24
5:EF:64:TRP:NE1	4:BO:30:LEU:H	1.32	1.24
1:LJ:22:LEU:N	1:JS:47:GLU:OE1	1.60	1.24
1:AK:361:LYS:HE3	1:KP:365:HIS:NE2	1.50	1.24
1:BK:137:ASP:OD2	1:jR:50:VAL:N	1.68	1.24
1:CK:53:TYR:CZ	1:hR:223:GLY:HA2	1.71	1.24
1:LK:47:GLU:CD	1:KP:22:LEU:N	1.85	1.24
1:LK:58:ILE:CG2	1:KP:55:PHE:CE2	2.19	1.24
1:QL:62:LEU:HD11	2:XR:53:PHE:C	1.61	1.24
3:AM:116:VAL:O	2:LS:7:MET:HE3	1.22	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q1:62:LEU:HD11	2:X6:53:PHE:C	1.61	1.24
1:C3:62:LEU:HD11	2:n7:53:PHE:C	1.61	1.24
1:b3:81:PHE:CD2	1:BD:139:ARG:HD3	1.67	1.24
1:f4:62:LEU:HD11	2:fG:53:PHE:C	1.61	1.24
1:Q6:31:LYS:CG	1:LJ:314:GLY:HA3	1.65	1.24
1:g6:142:PHE:O	1:LP:82:ILE:HG13	1.33	1.24
5:E9:37:ASP:CG	3:AB:197:VAL:CG2	2.11	1.24
3:AA:112:ILE:HG22	2:MK:13:THR:OG1	1.32	1.24
3:AC:197:VAL:CG2	5:EN:37:ASP:CG	2.11	1.24
1:AD:170:GLU:OE2	1:KK:33:TRP:HE3	0.91	1.24
1:DD:84:GLN:HG3	1:KS:140:PHE:O	1.17	1.24
1:LD:29:TYR:OH	1:DK:302:ASP:HB2	1.08	1.24
3:AH:114:PHE:CD1	2:MP:18:SER:OG	1.75	1.24
4:BI:251:TRP:HD1	3:AN:208:LYS:CB	1.50	1.24
1:KJ:33:TRP:HE3	1:AP:170:GLU:OE2	0.91	1.24
4:B2:250:ILE:CD1	3:AF:208:LYS:O	1.84	1.23
2:e4:53:PHE:C	1:Y8:62:LEU:HD11	1.61	1.23
1:g4:123:ASN:ND2	1:CD:21:ALA:HB2	1.52	1.23
1:Q6:27:HIS:CB	1:LJ:312:PRO:HD3	1.69	1.23
2:f6:53:PHE:C	1:KE:62:LEU:HD11	1.61	1.23
1:g6:81:PHE:HD2	1:DJ:139:ARG:CD	1.47	1.23
1:LD:22:LEU:CD2	1:KK:47:GLU:OE1	1.83	1.23
1:LD:144:THR:O	1:DK:82:ILE:HD12	1.11	1.23
1:SE:62:LEU:HD11	2:PQ:53:PHE:C	1.61	1.23
2:ZE:53:PHE:C	1:IQ:62:LEU:HD11	1.61	1.23
4:BF:251:TRP:HD1	3:AO:208:LYS:CB	1.50	1.23
1:CG:62:LEU:HD11	2:fL:53:PHE:C	1.61	1.23
1:AJ:361:LYS:HE2	1:JS:365:HIS:CD2	1.71	1.23
1:KJ:365:HIS:CD2	1:AP:361:LYS:HE2	1.71	1.23
1:KK:100:ASP:HA	1:KP:25:PHE:CA	1.67	1.23
2:H3:53:PHE:C	1:g7:62:LEU:HD11	1.61	1.23
2:X3:53:PHE:C	1:I8:62:LEU:HD11	1.61	1.23
1:h4:108:MET:HG3	1:CD:366:ASN:OD1	1.37	1.23
5:E5:37:ASP:CG	3:AH:197:VAL:CG2	2.11	1.23
1:i6:20:SER:HB2	1:DJ:47:GLU:CB	1.64	1.23
1:C7:81:PHE:HD2	1:DP:139:ARG:CD	1.47	1.23
1:B7:50:VAL:HG23	1:DP:137:ASP:OD2	1.06	1.23
5:DC:25:ARG:NH2	1:DP:103:LYS:HA	1.48	1.23
1:LD:312:PRO:HD3	1:YG:27:HIS:CB	1.69	1.23
1:DJ:304:GLN:NE2	1:LP:28:ASP:CB	2.00	1.23
1:KJ:100:ASP:HA	1:JS:25:PHE:CA	1.67	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:25:PHE:HA	1:AS:99:MET:O	1.14	1.23
2:MK:15:TYR:O	1:KP:145:LEU:HD23	1.33	1.23
3:AO:66:ILE:HG22	2:LS:54:THR:CG2	1.66	1.23
1:C1:118:THR:HG21	1:Y8:53:TYR:O	1.27	1.23
5:E2:37:ASP:CG	3:AF:197:VAL:CG2	2.11	1.23
1:Q6:57:LYS:CD	1:CJ:143:GLN:NE2	1.77	1.23
1:C7:29:TYR:CD2	1:LK:317:PHE:HE1	1.52	1.23
3:A9:197:VAL:CG2	5:EC:37:ASP:CG	2.11	1.23
1:KD:149:THR:CG2	2:LS:15:TYR:HB2	1.67	1.23
3:AH:111:ASP:HA	2:MP:19:ARG:NH2	1.53	1.23
5:CH:266:THR:HB	5:NN:230:SER:CA	1.53	1.23
3:AI:197:VAL:CG2	5:EM:37:ASP:CG	2.11	1.23
1:C1:54:LEU:CD1	1:bQ:116:MET:HE1	1.69	1.23
1:T1:144:THR:CA	1:CJ:82:ILE:HD11	1.63	1.23
1:i4:50:VAL:N	1:BD:137:ASP:OD2	1.68	1.23
5:C5:266:THR:HB	5:NI:230:SER:CA	1.53	1.23
1:Y6:116:MET:HE1	1:SE:54:LEU:CD1	1.69	1.23
1:g6:31:LYS:CG	1:LP:314:GLY:CA	2.17	1.23
1:C7:31:LYS:CG	1:LK:314:GLY:CA	2.17	1.23
1:g7:54:LEU:CD1	1:AE:116:MET:HE1	1.69	1.23
1:g8:31:LYS:CG	1:KS:314:GLY:CA	2.17	1.23
3:AC:208:LYS:CB	4:BN:251:TRP:HD1	1.50	1.23
1:AD:304:GLN:HE22	1:KK:28:ASP:CB	1.45	1.23
1:KD:107:LEU:HB3	1:KK:369:PHE:CZ	1.74	1.23
1:KD:369:PHE:CZ	1:JS:107:LEU:HB3	1.74	1.23
1:LD:28:ASP:CB	1:DK:304:GLN:NE2	2.00	1.23
1:LD:137:ASP:OD2	1:KK:50:VAL:HG23	1.28	1.23
1:LD:375:TRP:CE3	1:YG:367:PRO:HG3	1.50	1.23
2:MD:15:TYR:HB2	1:KK:149:THR:CG2	1.67	1.23
1:KJ:107:LEU:HB3	1:JS:369:PHE:CZ	1.74	1.23
1:LJ:143:GLN:C	1:CS:82:ILE:CD1	2.07	1.23
1:AK:361:LYS:HE2	1:KP:365:HIS:CD2	1.71	1.23
1:KK:107:LEU:HB3	1:KP:369:PHE:CZ	1.74	1.23
1:S1:108:MET:HG3	1:CJ:366:ASN:OD1	1.37	1.23
1:f1:54:LEU:CD1	1:C3:116:MET:HE1	1.69	1.23
3:A2:208:LYS:CB	4:BA:251:TRP:CD1	2.22	1.23
3:A5:115:ILE:O	2:MJ:21:ASN:OD1	1.57	1.23
1:C6:54:LEU:CD1	1:gG:116:MET:HE1	1.69	1.23
1:DD:82:ILE:CD1	1:KS:143:GLN:C	2.07	1.23
1:DD:121:TYR:CE1	1:KS:36:GLY:HA3	1.72	1.23
1:KD:25:PHE:CA	1:JS:100:ASP:HA	1.67	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:145:LEU:HD23	2:LS:15:TYR:O	1.33	1.23
1:LD:174:MET:CE	1:YG:33:TRP:H	1.52	1.23
1:FE:374:HIS:HE1	2:HP:9:SER:OG	0.91	1.23
1:CJ:265:ASP:OD2	2:EJ:41:TYR:HD1	0.97	1.23
1:KJ:105:GLU:O	1:CS:109:LEU:HD11	1.05	1.23
1:CK:125:ILE:HD11	1:jR:31:LYS:O	1.35	1.23
1:LK:144:THR:O	1:DP:82:ILE:HD12	1.11	1.23
2:MK:15:TYR:HB2	1:KP:149:THR:CG2	1.67	1.23
1:IL:54:LEU:CD1	1:IQ:116:MET:HE1	1.69	1.23
5:NM:230:SER:CA	5:CO:266:THR:HB	1.53	1.23
1:C1:116:MET:HE1	1:Y8:54:LEU:CD1	1.69	1.22
3:A2:108:THR:CA	2:MD:7:MET:CE	2.16	1.22
1:C4:54:LEU:CD1	1:CG:116:MET:HE1	1.69	1.22
1:T4:144:THR:CA	1:BS:82:ILE:HD11	1.63	1.22
1:f4:53:TYR:O	1:C6:118:THR:HG21	1.27	1.22
1:f4:54:LEU:CD1	1:C6:116:MET:HE1	1.69	1.22
1:C7:27:HIS:CB	1:LK:312:PRO:HD3	1.69	1.22
1:C7:33:TRP:H	1:LK:174:MET:CE	1.52	1.22
1:i8:50:VAL:HG23	1:DD:137:ASP:OD2	1.06	1.22
3:AB:115:ILE:O	2:MD:19:ARG:CB	1.85	1.22
1:YG:81:PHE:CE2	1:DK:139:ARG:HD2	1.74	1.22
1:LJ:28:ASP:CB	1:CS:304:GLN:NE2	2.00	1.22
1:LJ:37:ASP:O	1:CS:119:LYS:HG3	1.09	1.22
1:CK:54:LEU:CD2	1:hR:116:MET:HE1	1.66	1.22
1:LK:25:PHE:HE1	1:DP:126:VAL:CG1	1.44	1.22
1:LK:139:ARG:HB2	1:DP:81:PHE:CE2	1.37	1.22
1:Q1:54:LEU:HD11	1:IG:116:MET:CE	1.70	1.22
1:I4:116:MET:CE	1:QL:54:LEU:HD11	1.70	1.22
4:B5:30:LEU:H	5:EO:64:TRP:NE1	1.32	1.22
1:Q6:32:SER:OG	1:LJ:316:VAL:HG21	1.36	1.22
1:g6:81:PHE:CE2	1:DJ:139:ARG:HD2	1.74	1.22
1:I7:116:MET:HE1	1:CQ:54:LEU:CD1	1.69	1.22
1:Q7:54:LEU:CD1	1:YL:116:MET:HE1	1.69	1.22
1:Y7:54:LEU:CD1	1:QQ:116:MET:HE1	1.69	1.22
3:A9:153:ASP:OD1	1:AK:145:LEU:HG	1.07	1.22
5:DC:25:ARG:HH21	1:DP:103:LYS:CA	1.51	1.22
1:KD:368:GLU:OE1	1:IS:130:LYS:HD3	1.05	1.22
1:FE:31:LYS:HA	1:CP:314:GLY:O	1.39	1.22
1:aG:13:LEU:O	1:DK:45:MET:HG2	1.29	1.22
3:AH:112:ILE:HG13	2:MP:23:ARG:NH1	1.50	1.22
1:DJ:109:LEU:HD11	1:KP:105:GLU:O	1.05	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:368:GLU:OE1	1:AP:130:LYS:HD3	1.05	1.22
1:AK:60:GLU:HB2	1:KK:87:GLU:O	1.40	1.22
1:LK:37:ASP:O	1:DP:119:LYS:HG3	1.09	1.22
1:YL:54:LEU:HD11	1:QR:116:MET:CE	1.70	1.22
1:Q1:116:MET:CE	1:Q8:54:LEU:HD11	1.70	1.22
1:X1:54:LEU:CD1	1:I8:116:MET:HE1	1.69	1.22
3:A2:108:THR:CA	2:MD:7:MET:HE3	1.70	1.22
1:I3:54:LEU:HD11	1:QL:116:MET:CE	1.70	1.22
1:i4:30:SER:N	1:CD:315:ALA:HB2	1.55	1.22
3:A5:208:LYS:CB	4:BO:251:TRP:HD1	1.50	1.22
1:I6:54:LEU:CD1	1:YR:116:MET:HE1	1.69	1.22
1:S6:13:LEU:O	1:CS:45:MET:HG2	1.29	1.22
1:S6:50:VAL:HG23	1:CS:137:ASP:OD2	1.06	1.22
1:S6:367:PRO:HG2	1:AS:375:TRP:CE3	1.75	1.22
1:g6:27:HIS:CB	1:LP:312:PRO:HD3	1.69	1.22
1:Q7:54:LEU:HD11	1:YL:116:MET:CE	1.70	1.22
1:C8:116:MET:HE1	1:AE:54:LEU:CD1	1.69	1.22
3:A9:151:ASN:CA	1:AK:144:THR:HG22	1.69	1.22
1:DD:302:ASP:HB2	1:KS:29:TYR:OH	1.08	1.22
1:LD:82:ILE:HG13	1:YG:142:PHE:O	1.33	1.22
4:BF:251:TRP:CD1	3:AO:208:LYS:CB	2.23	1.22
1:aG:367:PRO:HG2	1:BK:375:TRP:CE3	1.75	1.22
1:BJ:139:ARG:HD3	1:gL:81:PHE:CD2	1.67	1.22
1:CK:21:ALA:HB2	1:hR:123:ASN:ND2	1.52	1.22
1:CL:116:MET:HE1	1:YR:54:LEU:CD1	1.69	1.22
1:I1:116:MET:HE1	1:Y6:54:LEU:CD1	1.69	1.22
3:A2:197:VAL:CG2	5:EA:37:ASP:CG	2.11	1.22
1:Q6:58:ILE:HD12	1:CJ:55:PHE:CD2	1.75	1.22
1:g6:367:PRO:HG3	1:LP:375:TRP:CE3	1.51	1.22
1:i6:50:VAL:HG23	1:DJ:137:ASP:OD2	1.06	1.22
1:i6:367:PRO:HG2	1:BJ:375:TRP:CE3	1.75	1.22
1:I7:116:MET:CE	1:CQ:54:LEU:HD11	1.70	1.22
1:i8:367:PRO:HG2	1:BD:375:TRP:CE3	1.75	1.22
3:AA:197:VAL:CG2	5:EH:37:ASP:CG	2.11	1.22
1:AD:130:LYS:HD3	1:KK:368:GLU:OE1	1.05	1.22
1:AD:223:GLY:HA2	1:KK:53:TYR:CZ	1.75	1.22
1:DD:119:LYS:HG3	1:KS:37:ASP:O	1.09	1.22
1:FE:30:SER:N	1:CP:315:ALA:HB2	1.55	1.22
4:BI:251:TRP:CD1	3:AN:208:LYS:CB	2.22	1.22
1:KJ:47:GLU:CD	1:LP:22:LEU:H	1.40	1.22
1:LK:22:LEU:H	1:KP:47:GLU:CD	1.40	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CQ:116:MET:HE1	1:gR:54:LEU:CD1	1.69	1.22
1:I1:54:LEU:CD1	1:SE:116:MET:HE1	1.69	1.22
1:S1:105:GLU:HB2	1:LJ:109:LEU:CD2	1.64	1.22
1:T1:374:HIS:HE1	2:HJ:9:SER:OG	0.91	1.22
1:f1:54:LEU:HD11	1:C3:116:MET:CE	1.70	1.22
4:B2:251:TRP:HD1	3:AF:208:LYS:CB	1.50	1.22
1:Q3:54:LEU:CD1	1:X4:116:MET:HE1	1.69	1.22
1:Q3:116:MET:CE	1:CR:54:LEU:HD11	1.70	1.22
1:C4:54:LEU:HD11	1:CG:116:MET:CE	1.70	1.22
1:S4:98:ASN:HB3	1:BS:28:ASP:O	1.38	1.22
1:T4:30:SER:N	1:BS:315:ALA:HB2	1.55	1.22
1:T4:31:LYS:HA	1:BS:314:GLY:O	1.39	1.22
1:T4:374:HIS:HE1	2:GS:9:SER:OG	0.91	1.22
3:A5:208:LYS:CB	4:BO:251:TRP:CD1	2.22	1.22
4:B5:249:GLN:CA	3:AH:210:SER:OG	1.88	1.22
4:B5:251:TRP:CD1	3:AH:208:LYS:CB	2.23	1.22
1:g6:33:TRP:H	1:LP:174:MET:CE	1.52	1.22
1:g6:58:ILE:HD12	1:CP:55:PHE:CD2	1.75	1.22
1:g6:118:THR:HG21	1:DJ:53:TYR:O	1.39	1.22
1:C7:58:ILE:HD12	1:CK:55:PHE:CD2	1.75	1.22
1:C7:81:PHE:CE2	1:DP:139:ARG:HD2	1.74	1.22
1:Y7:54:LEU:HD11	1:QQ:116:MET:CE	1.70	1.22
1:Q8:116:MET:HE1	1:IG:54:LEU:CD1	1.69	1.22
3:A9:150:TYR:O	1:AK:144:THR:CG2	1.88	1.22
5:E9:64:TRP:NE1	4:BB:30:LEU:H	1.32	1.22
3:AC:208:LYS:CB	4:BN:251:TRP:CD1	2.22	1.22
1:CE:98:ASN:HB3	1:CP:28:ASP:O	1.38	1.22
1:aG:50:VAL:HG23	1:DK:137:ASP:OD2	1.06	1.22
3:AH:111:ASP:CA	2:MP:19:ARG:NH2	2.03	1.22
1:DJ:82:ILE:CD1	1:LP:143:GLN:C	2.07	1.22
1:CL:116:MET:CE	1:YR:54:LEU:HD11	1.70	1.22
1:Q1:54:LEU:CD1	1:IG:116:MET:HE1	1.69	1.21
4:B2:249:GLN:CA	3:AF:210:SER:OG	1.88	1.21
1:C3:54:LEU:CD1	1:QG:116:MET:HE1	1.69	1.21
1:I3:116:MET:HE1	1:I4:54:LEU:CD1	1.69	1.21
1:Q3:54:LEU:HD11	1:X4:116:MET:CE	1.70	1.21
1:C4:116:MET:CE	1:aE:54:LEU:HD11	1.70	1.21
1:R4:123:ASN:ND2	1:BS:21:ALA:HB2	1.52	1.21
1:I7:54:LEU:CD1	1:gR:116:MET:HE1	1.69	1.21
1:I7:158:LYS:HE3	1:cQ:93:ASP:OD1	1.04	1.21
1:J7:93:ASP:OD1	1:bQ:158:LYS:HE3	1.03	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g7:116:MET:HE1	1:C8:54:LEU:CD1	1.69	1.21
1:g8:21:ALA:N	1:BS:47:GLU:CG	2.01	1.21
4:BB:251:TRP:HD1	3:AM:208:LYS:CB	1.50	1.21
4:BB:251:TRP:CD1	3:AM:208:LYS:CB	2.22	1.21
3:AC:210:SER:OG	4:BN:249:GLN:CA	1.88	1.21
1:AD:361:LYS:HE2	1:KK:365:HIS:CD2	1.71	1.21
1:CD:143:GLN:NE2	1:YG:57:LYS:CD	1.77	1.21
5:EF:37:ASP:CG	3:AO:197:VAL:CG2	2.11	1.21
1:gG:158:LYS:HE3	1:AL:93:ASP:OD1	1.03	1.21
1:hG:93:ASP:OD1	1:CL:158:LYS:HE3	1.04	1.21
3:AI:29:ARG:NH1	1:IS:58:ILE:HG12	1.54	1.21
3:AI:208:LYS:CB	4:BM:251:TRP:CD1	2.23	1.21
1:KJ:369:PHE:CZ	1:KP:107:LEU:HB3	1.74	1.21
1:BK:261:ILE:CG2	1:BK:265:ASP:OD1	1.89	1.21
1:BK:261:ILE:HG22	1:BK:265:ASP:CG	1.65	1.21
1:CK:28:ASP:O	1:iR:98:ASN:HB3	1.38	1.21
1:CK:265:ASP:OD2	2:EK:41:TYR:HD1	0.97	1.21
1:KK:99:MET:O	1:KP:25:PHE:HD1	1.13	1.21
1:KK:105:GLU:O	1:DP:109:LEU:HD11	1.05	1.21
1:IL:54:LEU:HD11	1:IQ:116:MET:CE	1.70	1.21
1:YL:54:LEU:CD1	1:QR:116:MET:HE1	1.69	1.21
1:I1:116:MET:CE	1:Y6:54:LEU:HD11	1.70	1.21
2:U1:1:MET:N	1:CJ:150:ASN:CG	1.99	1.21
4:B2:251:TRP:CD1	3:AF:208:LYS:CB	2.23	1.21
1:A4:93:ASP:OD1	1:QG:158:LYS:HE3	1.04	1.21
1:Q4:116:MET:HE1	1:IQ:54:LEU:CD1	1.69	1.21
1:Q4:158:LYS:HE3	1:h8:93:ASP:OD1	1.04	1.21
3:A5:210:SER:OG	4:BO:249:GLN:CA	1.88	1.21
1:Q6:33:TRP:H	1:LJ:174:MET:CE	1.52	1.21
1:g8:81:PHE:CE2	1:DD:139:ARG:HD2	1.74	1.21
3:AA:112:ILE:HD12	2:MK:16:GLU:CD	1.65	1.21
1:KD:22:LEU:N	1:KS:47:GLU:CD	1.85	1.21
1:KD:33:TRP:HE3	1:IS:170:GLU:OE2	0.91	1.21
1:KD:105:GLU:O	1:DK:109:LEU:HD11	1.05	1.21
1:LD:316:VAL:HG21	1:YG:32:SER:OG	1.36	1.21
1:bE:93:ASP:OD1	1:CR:158:LYS:HE3	1.04	1.21
1:aG:20:SER:HB2	1:DK:47:GLU:CB	1.64	1.21
1:AJ:223:GLY:HA2	1:JS:53:TYR:CZ	1.75	1.21
1:C1:54:LEU:HD11	1:bQ:116:MET:CE	1.70	1.21
1:Q1:116:MET:HE1	1:Q8:54:LEU:CD1	1.69	1.21
1:X1:116:MET:HE1	1:IR:54:LEU:CD1	1.69	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C3:158:LYS:HE3	1:h7:93:ASP:OD1	1.04	1.21
1:I3:116:MET:CE	1:I4:54:LEU:HD11	1.70	1.21
1:I4:116:MET:HE1	1:QL:54:LEU:CD1	1.69	1.21
1:f4:116:MET:CE	1:gG:54:LEU:HD11	1.70	1.21
1:h4:105:GLU:HB2	1:LD:109:LEU:CD2	1.64	1.21
1:i4:31:LYS:O	1:CD:125:ILE:HD11	1.35	1.21
1:C6:54:LEU:HD11	1:gG:116:MET:CE	1.70	1.21
1:I6:116:MET:HE1	1:CL:54:LEU:CD1	1.69	1.21
1:g6:111:ARG:CZ	1:CJ:105:GLU:OE2	1.88	1.21
1:B7:13:LEU:O	1:DP:45:MET:HG2	1.29	1.21
1:C8:116:MET:CE	1:AE:54:LEU:HD11	1.70	1.21
1:I8:54:LEU:CD1	1:IR:116:MET:HE1	1.69	1.21
1:Y8:116:MET:CE	1:bQ:54:LEU:HD11	1.70	1.21
3:A9:210:SER:OG	4:BC:249:GLN:CA	1.88	1.21
3:AA:210:SER:OG	4:BH:249:GLN:CA	1.88	1.21
1:TE:93:ASP:OD1	1:IQ:158:LYS:HE3	1.04	1.21
3:AI:112:ILE:HD12	2:MJ:6:ASN:N	1.52	1.21
4:BI:249:GLN:CA	3:AN:210:SER:OG	1.88	1.21
1:LJ:29:TYR:OH	1:CS:302:ASP:HB2	1.08	1.21
1:LJ:45:MET:HB2	1:JS:14:VAL:CG2	1.69	1.21
1:LK:29:TYR:OH	1:DP:302:ASP:HB2	1.08	1.21
1:AP:60:GLU:HB2	1:KP:87:GLU:O	1.40	1.21
1:AS:261:ILE:HG22	1:AS:265:ASP:CG	1.65	1.21
1:X1:54:LEU:HD11	1:I8:116:MET:CE	1.70	1.21
1:f1:158:LYS:HE3	1:AQ:93:ASP:OD1	1.03	1.21
1:I3:54:LEU:CD1	1:QL:116:MET:HE1	1.69	1.21
1:Q7:116:MET:CE	1:QR:54:LEU:HD11	1.70	1.21
1:Y7:116:MET:HE1	1:KE:54:LEU:CD1	1.69	1.21
1:I8:54:LEU:HD11	1:IR:116:MET:CE	1.70	1.21
1:Q8:116:MET:CE	1:IG:54:LEU:HD11	1.70	1.21
1:KD:99:MET:O	1:KK:25:PHE:HD1	1.13	1.21
1:AJ:170:GLU:OE2	1:JS:33:TRP:HE3	0.91	1.21
1:KJ:53:TYR:CZ	1:AP:223:GLY:HA2	1.75	1.21
1:AK:223:GLY:HA2	1:KP:53:TYR:CZ	1.75	1.21
2:HK:9:SER:OG	1:jR:374:HIS:HE1	0.90	1.21
1:A3:93:ASP:OD1	1:g7:158:LYS:HE3	1.04	1.21
1:Q3:81:PHE:CE2	1:CR:139:ARG:HD2	1.76	1.21
1:C4:81:PHE:CE2	1:aE:139:ARG:HD2	1.76	1.21
3:A5:197:VAL:CG2	5:EO:37:ASP:CG	2.11	1.21
1:Q6:118:THR:HG21	1:CS:53:TYR:O	1.39	1.21
1:B7:143:GLN:C	1:BP:82:ILE:CD1	2.14	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:33:TRP:H	1:KS:174:MET:CE	1.52	1.21
1:i8:143:GLN:C	1:BD:82:ILE:CD1	2.14	1.21
3:AA:208:LYS:CB	4:BH:251:TRP:CD1	2.22	1.21
4:BB:249:GLN:CA	3:AM:210:SER:OG	1.88	1.21
1:KD:100:ASP:CA	1:KK:25:PHE:O	1.78	1.21
1:BE:123:ASN:ND2	1:CP:21:ALA:HB2	1.52	1.21
1:FE:144:THR:O	1:CP:82:ILE:HD11	1.41	1.21
1:SE:158:LYS:HE3	1:JQ:93:ASP:OD1	1.04	1.21
1:aG:20:SER:OG	1:DK:47:GLU:HB2	1.40	1.21
5:FI:55:LEU:HD11	4:BN:32:PHE:CD2	1.76	1.21
1:DJ:82:ILE:CD1	1:LP:144:THR:O	1.89	1.21
1:CK:82:ILE:HD11	1:jR:144:THR:O	1.41	1.21
1:IL:158:LYS:HE3	1:ZR:93:ASP:OD1	1.03	1.21
1:C4:116:MET:HE1	1:aE:54:LEU:CD1	1.69	1.20
1:X4:54:LEU:CD1	1:CR:116:MET:HE1	1.69	1.20
4:B5:251:TRP:HD1	3:AH:208:LYS:CB	1.50	1.20
1:g7:139:ARG:HD2	1:AE:81:PHE:CE2	1.76	1.20
1:g8:27:HIS:CB	1:KS:312:PRO:HD3	1.69	1.20
5:EB:37:ASP:CG	3:AM:197:VAL:CG2	2.11	1.20
5:EC:21:ILE:HG23	5:EH:55:LEU:CD2	1.71	1.20
1:AD:145:LEU:CD2	3:AF:33:ASN:O	1.83	1.20
1:LD:143:GLN:C	1:DK:82:ILE:CD1	2.07	1.20
1:KE:116:MET:CE	1:QQ:54:LEU:HD11	1.70	1.20
1:aE:116:MET:HE1	1:CG:54:LEU:CD1	1.69	1.20
1:YG:111:ARG:CZ	1:CK:105:GLU:OE2	1.88	1.20
3:AH:111:ASP:C	2:MP:19:ARG:NH2	1.99	1.20
1:AJ:130:LYS:HD3	1:JS:368:GLU:OE1	1.05	1.20
1:BJ:261:ILE:CG2	1:BJ:265:ASP:OD1	1.89	1.20
1:KJ:100:ASP:CA	1:JS:25:PHE:O	1.78	1.20
3:AO:64:GLN:C	1:IS:146:ALA:HB1	1.66	1.20
1:S4:108:MET:HG3	1:BS:366:ASN:OD1	1.37	1.20
1:Y4:93:ASP:OD1	1:Y8:158:LYS:HE3	1.04	1.20
5:E5:55:LEU:CD2	5:EN:21:ILE:HG23	1.71	1.20
1:I6:116:MET:CE	1:CL:54:LEU:HD11	1.70	1.20
1:Q6:111:ARG:CZ	1:BS:105:GLU:OE2	1.88	1.20
1:Y6:81:PHE:CE2	1:SE:139:ARG:HD2	1.76	1.20
1:g6:158:LYS:HE3	1:BE:93:ASP:OD1	1.04	1.20
1:B7:367:PRO:HG2	1:BP:375:TRP:CE3	1.75	1.20
1:Y7:116:MET:CE	1:KE:54:LEU:HD11	1.70	1.20
1:g7:116:MET:CE	1:C8:54:LEU:HD11	1.70	1.20
1:g8:29:TYR:CD2	1:KS:317:PHE:HE1	1.53	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:32:SER:OG	1:KS:316:VAL:HG21	1.36	1.20
1:g8:111:ARG:CZ	1:CD:105:GLU:OE2	1.88	1.20
1:g8:118:THR:HG21	1:DD:53:TYR:O	1.39	1.20
4:B9:251:TRP:CD1	3:AB:208:LYS:CB	2.23	1.20
3:AA:114:PHE:CD1	2:MK:8:ARG:CA	2.24	1.20
1:BD:261:ILE:CG2	1:BD:265:ASP:OD1	1.89	1.20
1:CD:265:ASP:OD2	2:ED:41:TYR:HD1	0.97	1.20
1:FE:31:LYS:O	1:CP:125:ILE:HD11	1.35	1.20
1:KE:116:MET:HE1	1:QQ:54:LEU:CD1	1.69	1.20
1:aE:81:PHE:CE2	1:CG:139:ARG:HD2	1.76	1.20
5:EI:21:ILE:HG23	5:EO:55:LEU:CD2	1.71	1.20
5:EI:37:ASP:CG	3:AN:197:VAL:CG2	2.11	1.20
1:BJ:261:ILE:HG22	1:BJ:265:ASP:CG	1.65	1.20
1:DJ:126:VAL:CG1	1:LP:25:PHE:HE1	1.44	1.20
1:LJ:143:GLN:CA	1:CS:82:ILE:HG12	1.68	1.20
1:CK:53:TYR:CE1	1:hR:223:GLY:HA2	1.77	1.20
1:LK:53:TYR:HD1	1:DP:222:SER:CB	1.50	1.20
1:AS:261:ILE:CG2	1:AS:265:ASP:OD1	1.89	1.20
1:I1:54:LEU:HD11	1:SE:116:MET:CE	1.70	1.20
1:R1:116:MET:HE1	1:CJ:54:LEU:CD2	1.66	1.20
1:Q3:116:MET:HE1	1:CR:54:LEU:CD1	1.69	1.20
1:Q4:54:LEU:HD11	1:IL:116:MET:CE	1.70	1.20
2:j4:1:MET:N	1:CD:150:ASN:CG	1.99	1.20
1:Q6:81:PHE:CE2	1:CS:139:ARG:HD2	1.74	1.20
1:Z6:93:ASP:OD1	1:KE:158:LYS:HE3	1.04	1.20
1:i6:143:GLN:C	1:BJ:82:ILE:CD1	2.14	1.20
1:C7:118:THR:HG21	1:DP:53:TYR:O	1.39	1.20
1:R7:93:ASP:OD1	1:QQ:158:LYS:HE3	1.03	1.20
3:AA:113:TYR:HD2	2:MK:7:MET:CE	1.48	1.20
1:KD:47:GLU:CD	1:KS:22:LEU:N	1.80	1.20
1:KD:53:TYR:CZ	1:IS:223:GLY:HA2	1.75	1.20
1:KJ:357:LYS:HE3	3:AN:67:ASN:CG	1.66	1.20
1:LJ:144:THR:O	1:CS:82:ILE:CD1	1.89	1.20
1:AK:123:ASN:HD21	1:KP:21:ALA:CB	1.52	1.20
1:CK:38:LYS:CD	1:hR:221:ALA:HA	1.59	1.20
1:CK:366:ASN:OD1	1:iR:108:MET:HG3	1.37	1.20
1:CQ:116:MET:CE	1:gR:54:LEU:HD11	1.70	1.20
1:Q1:81:PHE:CE2	1:Q8:139:ARG:HD2	1.76	1.20
1:S1:98:ASN:HB3	1:CJ:28:ASP:O	1.38	1.20
1:T1:30:SER:N	1:CJ:315:ALA:HB2	1.55	1.20
1:X1:116:MET:CE	1:IR:54:LEU:HD11	1.70	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X1:139:ARG:HD2	1:I8:81:PHE:CE2	1.76	1.20
1:X1:158:LYS:HE3	1:J6:93:ASP:OD1	1.03	1.20
1:f1:364:PHE:CZ	1:h7:108:MET:HE1	1.77	1.20
3:A2:210:SER:OG	4:BA:249:GLN:CA	1.88	1.20
1:I3:139:ARG:HD2	1:QL:81:PHE:CE2	1.76	1.20
1:Q3:139:ARG:HD2	1:X4:81:PHE:CE2	1.76	1.20
1:R3:93:ASP:OD1	1:I8:158:LYS:HE3	1.04	1.20
1:f4:116:MET:HE1	1:gG:54:LEU:CD1	1.69	1.20
1:f4:158:LYS:HE3	1:ZG:93:ASP:OD1	1.04	1.20
1:I6:54:LEU:HD11	1:YR:116:MET:CE	1.70	1.20
1:C7:158:LYS:HE3	1:hR:93:ASP:OD1	1.03	1.20
1:I7:54:LEU:HD11	1:gR:116:MET:CE	1.70	1.20
1:Q7:139:ARG:HD2	1:YL:81:PHE:CE2	1.76	1.20
1:Q7:364:PHE:CZ	1:AG:108:MET:HE1	1.77	1.20
1:R7:108:MET:HE1	1:Y7:364:PHE:CZ	1.77	1.20
1:Y8:116:MET:HE1	1:bQ:54:LEU:CD1	1.69	1.20
3:A9:208:LYS:CB	4:BC:251:TRP:CD1	2.23	1.20
4:B9:249:GLN:CA	3:AB:210:SER:OG	1.88	1.20
1:LD:47:GLU:CD	1:KK:22:LEU:N	1.85	1.20
1:CE:105:GLU:HB2	1:LP:109:LEU:CD2	1.64	1.20
1:TE:108:MET:HE1	1:IL:364:PHE:CZ	1.77	1.20
3:AH:112:ILE:CG1	2:MP:23:ARG:NH1	2.05	1.20
3:AI:210:SER:OG	4:BM:249:GLN:CA	1.88	1.20
1:BJ:133:LEU:CB	2:iL:11:MET:HG2	1.72	1.20
1:f1:116:MET:CE	1:QG:54:LEU:HD11	1.70	1.20
5:D2:28:TYR:CD2	1:AD:369:PHE:CE1	2.28	1.20
1:J4:108:MET:HE1	1:AE:364:PHE:CZ	1.77	1.20
1:f4:54:LEU:HD11	1:C6:116:MET:CE	1.70	1.20
1:i4:374:HIS:HE1	2:HD:9:SER:OG	0.90	1.20
3:A5:149:GLN:CG	1:AJ:145:LEU:O	1.89	1.20
1:I6:139:ARG:HD2	1:YR:81:PHE:CE2	1.76	1.20
1:Y6:364:PHE:CZ	1:JG:108:MET:HE1	1.77	1.20
1:g6:302:ASP:OD2	1:DJ:29:TYR:OH	1.60	1.20
1:C7:111:ARG:CZ	1:CP:105:GLU:OE2	1.88	1.20
1:B7:20:SER:HB2	1:DP:47:GLU:CB	1.64	1.20
1:CD:55:PHE:CD2	1:YG:58:ILE:HD12	1.75	1.20
2:HE:1:MET:N	1:CP:150:ASN:CG	1.99	1.20
2:WE:45:ILE:HG13	2:WE:46:HIS:N	1.55	1.20
1:aE:116:MET:CE	1:CG:54:LEU:HD11	1.70	1.20
1:aG:143:GLN:C	1:BK:82:ILE:CD1	2.14	1.20
5:EH:21:ILE:HG23	5:EN:55:LEU:CD2	1.71	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:99:MET:O	1:LP:25:PHE:CB	1.90	1.20
1:CQ:81:PHE:CE2	1:gR:139:ARG:HD2	1.76	1.20
1:C1:116:MET:CE	1:Y8:54:LEU:HD11	1.70	1.19
1:f1:116:MET:HE1	1:QG:54:LEU:CD1	1.69	1.19
1:g1:93:ASP:OD1	1:CQ:158:LYS:HE3	1.04	1.19
5:E2:55:LEU:CD2	5:EB:21:ILE:HG23	1.71	1.19
5:F2:55:LEU:HD11	4:BF:32:PHE:CD2	1.76	1.19
1:Q3:364:PHE:CZ	1:Z8:108:MET:HE1	1.77	1.19
2:a3:11:MET:HG2	1:BK:133:LEU:CB	1.72	1.19
2:d3:11:MET:HG2	1:BD:133:LEU:CB	1.72	1.19
1:I4:364:PHE:CZ	1:R8:108:MET:HE1	1.77	1.19
2:P4:11:MET:HG2	1:AE:372:VAL:HG11	1.20	1.19
1:Q4:364:PHE:CZ	1:ZR:108:MET:HE1	1.77	1.19
2:U4:1:MET:N	1:BS:150:ASN:CG	1.99	1.19
1:X4:54:LEU:HD11	1:CR:116:MET:CE	1.70	1.19
1:g7:54:LEU:HD11	1:AE:116:MET:CE	1.70	1.19
1:AD:60:GLU:HB2	1:KD:87:GLU:O	1.40	1.19
1:KD:14:VAL:CG2	1:KS:45:MET:HB2	1.69	1.19
1:LD:314:GLY:CA	1:YG:31:LYS:CG	2.17	1.19
4:BF:249:GLN:CA	3:AO:210:SER:OG	1.88	1.19
1:QG:364:PHE:CZ	1:AQ:108:MET:HE1	1.77	1.19
1:AK:130:LYS:HD3	1:KP:368:GLU:OE1	1.05	1.19
1:LK:144:THR:O	1:DP:82:ILE:CD1	1.89	1.19
1:JL:93:ASP:OD1	1:YR:158:LYS:HE3	1.04	1.19
1:RQ:108:MET:HE1	1:QR:364:PHE:CZ	1.77	1.19
1:Y1:108:MET:HE1	1:CL:364:PHE:CZ	1.77	1.19
1:C3:139:ARG:HD2	1:QG:81:PHE:CE2	1.76	1.19
1:I3:81:PHE:CE2	1:I4:139:ARG:HD2	1.76	1.19
1:J3:108:MET:HE1	1:IG:364:PHE:CZ	1.77	1.19
1:Q4:54:LEU:CD1	1:IL:116:MET:HE1	1.69	1.19
1:Q4:81:PHE:CE2	1:IQ:139:ARG:HD2	1.76	1.19
1:R4:223:GLY:HA2	1:BS:53:TYR:CE1	1.77	1.19
1:T4:367:PRO:HG2	1:BS:375:TRP:CZ3	1.78	1.19
1:X4:364:PHE:CZ	1:bE:108:MET:HE1	1.77	1.19
1:Q6:31:LYS:CG	1:LJ:314:GLY:CA	2.17	1.19
1:Q6:81:PHE:HD2	1:CS:139:ARG:CD	1.47	1.19
1:C7:57:LYS:CD	1:CK:143:GLN:NE2	1.76	1.19
1:D7:100:ASP:HB2	1:BP:25:PHE:O	1.43	1.19
1:Y7:158:LYS:HE3	1:JR:93:ASP:OD1	1.04	1.19
2:k7:45:ILE:HG13	2:k7:46:HIS:N	1.55	1.19
1:A8:108:MET:HE1	1:QL:364:PHE:CZ	1.77	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:81:PHE:CE2	1:IG:139:ARG:HD2	1.76	1.19
1:g8:58:ILE:HD12	1:BS:55:PHE:CD2	1.75	1.19
1:h8:108:MET:HE1	1:IQ:364:PHE:CZ	1.77	1.19
3:AB:115:ILE:O	2:MD:19:ARG:HA	1.26	1.19
5:EB:55:LEU:CD2	5:EF:21:ILE:HG23	1.71	1.19
1:DD:82:ILE:CD1	1:KS:144:THR:O	1.89	1.19
1:LD:25:PHE:CD1	1:BK:99:MET:HB2	1.77	1.19
1:LD:25:PHE:HE1	1:DK:126:VAL:CG1	1.43	1.19
1:BE:223:GLY:HA2	1:CP:53:TYR:CE1	1.77	1.19
1:YG:302:ASP:OD2	1:DK:29:TYR:OH	1.60	1.19
1:AJ:60:GLU:HB2	1:KJ:87:GLU:O	1.40	1.19
2:FJ:2:TYR:CB	2:NP:55:GLY:HA3	1.73	1.19
1:KJ:80:ASP:HB3	3:AN:64:GLN:O	1.38	1.19
1:LK:45:MET:HB2	1:KP:14:VAL:CG2	1.69	1.19
1:BS:265:ASP:OD2	2:DS:41:TYR:HD1	0.97	1.19
1:A1:93:ASP:OD1	1:C6:158:LYS:HE3	1.04	1.19
1:J1:108:MET:HE1	1:Q1:364:PHE:CZ	1.77	1.19
1:X1:81:PHE:CE2	1:IR:139:ARG:HD2	1.76	1.19
1:C3:364:PHE:CZ	1:A4:108:MET:HE1	1.77	1.19
2:E3:45:ILE:HG13	2:E3:46:HIS:N	1.55	1.19
1:Y4:108:MET:HE1	1:bQ:364:PHE:CZ	1.77	1.19
1:g4:221:ALA:HA	1:CD:38:LYS:CD	1.59	1.19
1:Y6:116:MET:CE	1:SE:54:LEU:HD11	1.70	1.19
1:Y6:372:VAL:HG11	2:PG:11:MET:HG2	1.20	1.19
1:A7:108:MET:HE1	1:I7:364:PHE:CZ	1.77	1.19
1:I7:81:PHE:CE2	1:CQ:139:ARG:HD2	1.76	1.19
1:Q7:116:MET:HE1	1:QR:54:LEU:CD1	1.69	1.19
2:U7:45:ILE:HG13	2:U7:46:HIS:N	1.55	1.19
1:I8:139:ARG:HD2	1:IR:81:PHE:CE2	1.76	1.19
3:AB:155:GLU:OE2	1:AD:136:ASN:HB3	1.40	1.19
1:BD:261:ILE:HG22	1:BD:265:ASP:CG	1.65	1.19
1:LD:22:LEU:H	1:KK:47:GLU:CD	1.40	1.19
1:FE:367:PRO:HG2	1:CP:375:TRP:CZ3	1.78	1.19
1:KJ:14:VAL:CG2	1:LP:45:MET:HB2	1.69	1.19
1:CL:81:PHE:CE2	1:YR:139:ARG:HD2	1.76	1.19
1:QL:158:LYS:HE3	1:RR:93:ASP:OD1	1.03	1.19
3:AO:64:GLN:CA	1:IS:146:ALA:CB	2.21	1.19
1:BP:261:ILE:CG2	1:BP:265:ASP:OD1	1.89	1.19
1:C1:158:LYS:HE3	1:A6:93:ASP:OD1	1.04	1.19
1:Q1:139:ARG:HD2	1:IG:81:PHE:CE2	1.76	1.19
1:Q1:158:LYS:HE3	1:R6:93:ASP:OD1	1.03	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f4:81:PHE:CE2	1:gG:139:ARG:HD2	1.76	1.19
1:g4:223:GLY:HA2	1:CD:53:TYR:CE1	1.77	1.19
5:E5:21:ILE:HG23	5:EI:55:LEU:CD2	1.71	1.19
1:Z6:108:MET:HE1	1:QQ:364:PHE:CZ	1.77	1.19
1:g6:32:SER:OG	1:LP:316:VAL:HG21	1.36	1.19
1:h6:108:MET:HE1	1:g7:364:PHE:CZ	1.77	1.19
1:C7:57:LYS:CG	1:CK:143:GLN:NE2	2.06	1.19
1:Y8:81:PHE:CE2	1:bQ:139:ARG:HD2	1.76	1.19
1:DD:109:LEU:HD11	1:JS:105:GLU:O	1.05	1.19
1:LD:144:THR:O	1:DK:82:ILE:CD1	1.89	1.19
1:YG:118:THR:HG21	1:DK:53:TYR:O	1.39	1.19
1:ZG:108:MET:HE1	1:gG:364:PHE:CZ	1.77	1.19
1:bG:100:ASP:HB2	1:BK:25:PHE:O	1.43	1.19
1:LJ:53:TYR:HD1	1:CS:222:SER:CB	1.50	1.19
1:CK:150:ASN:CG	2:kR:1:MET:N	1.99	1.19
1:CK:315:ALA:HB2	1:jR:30:SER:N	1.55	1.19
3:AO:29:ARG:HD3	1:IS:136:ASN:ND2	1.57	1.19
2:MQ:45:ILE:HG13	2:MQ:46:HIS:N	1.55	1.19
1:T1:367:PRO:HG2	1:CJ:375:TRP:CZ3	1.78	1.19
3:A2:112:ILE:HD11	2:MD:4:GLY:O	1.43	1.19
1:C3:54:LEU:HD11	1:QG:116:MET:CE	1.70	1.19
1:J3:93:ASP:OD1	1:Q8:158:LYS:HE3	1.04	1.19
1:C4:139:ARG:HD2	1:CG:81:PHE:CE2	1.76	1.19
1:I4:81:PHE:CE2	1:QL:139:ARG:HD2	1.76	1.19
1:Q4:116:MET:CE	1:IQ:54:LEU:HD11	1.70	1.19
1:X4:139:ARG:HD2	1:CR:81:PHE:CE2	1.76	1.19
1:i4:144:THR:O	1:CD:82:ILE:HD11	1.41	1.19
5:F5:55:LEU:HD11	4:BH:32:PHE:CD2	1.76	1.19
1:h6:93:ASP:OD1	1:AE:158:LYS:HE3	1.04	1.19
1:Y7:81:PHE:CE2	1:KE:139:ARG:HD2	1.76	1.19
1:Z7:93:ASP:OD1	1:IR:158:LYS:HE3	1.04	1.19
5:DA:28:TYR:CE2	1:AK:140:PHE:CD2	2.01	1.19
5:EA:21:ILE:HG23	5:EC:55:LEU:CD2	1.71	1.19
1:BD:99:MET:O	1:KS:25:PHE:CB	1.90	1.19
1:BD:99:MET:HB2	1:KS:25:PHE:CD1	1.78	1.19
1:LD:143:GLN:CA	1:DK:82:ILE:HG12	1.68	1.19
2:GE:11:MET:HG2	1:BP:133:LEU:CB	1.72	1.19
1:BE:116:MET:HE1	1:CP:54:LEU:CD2	1.66	1.19
1:LE:108:MET:HE1	1:SE:364:PHE:CZ	1.77	1.19
5:FF:55:LEU:HD11	4:BO:32:PHE:CD2	1.76	1.19
1:LK:21:ALA:HB2	1:DP:123:ASN:ND2	1.51	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:31:LYS:HA	1:DP:316:VAL:HG22	1.24	1.19
1:I1:81:PHE:CE2	1:Y6:139:ARG:HD2	1.76	1.18
1:C6:364:PHE:CZ	1:AL:108:MET:HE1	1.77	1.18
1:A6:108:MET:HE1	1:Y8:364:PHE:CZ	1.77	1.18
1:Q6:57:LYS:CG	1:CJ:143:GLN:NE2	2.06	1.18
1:S6:143:GLN:C	1:AS:82:ILE:CD1	2.14	1.18
1:Y6:158:LYS:HE3	1:LE:93:ASP:OD1	1.04	1.18
1:I7:139:ARG:HD2	1:gR:81:PHE:CE2	1.76	1.18
1:Y7:139:ARG:HD2	1:QQ:81:PHE:CE2	1.76	1.18
1:Z7:108:MET:HE1	1:I8:364:PHE:CZ	1.77	1.18
1:C8:81:PHE:CE2	1:AE:139:ARG:HD2	1.76	1.18
1:i8:20:SER:HB2	1:DD:47:GLU:CB	1.64	1.18
2:FD:2:TYR:CB	2:MS:55:GLY:HA3	1.73	1.18
1:KD:47:GLU:CD	1:KS:22:LEU:H	1.40	1.18
1:LD:25:PHE:CB	1:BK:99:MET:O	1.90	1.18
1:KE:364:PHE:CZ	1:JR:108:MET:HE1	1.77	1.18
1:LK:25:PHE:CD1	1:BP:99:MET:HB2	1.77	1.18
2:hL:45:ILE:HG13	2:hL:46:HIS:N	1.55	1.18
1:BP:261:ILE:HG22	1:BP:265:ASP:CG	1.65	1.18
1:IS:60:GLU:HB2	1:JS:87:GLU:O	1.40	1.18
1:C1:81:PHE:CE2	1:Y8:139:ARG:HD2	1.76	1.18
1:C1:364:PHE:CZ	1:J7:108:MET:HE1	1.77	1.18
1:A1:108:MET:HE1	1:f4:364:PHE:CZ	1.77	1.18
1:I1:139:ARG:HD2	1:SE:81:PHE:CE2	1.76	1.18
5:E2:21:ILE:HG23	5:E9:55:LEU:CD2	1.71	1.18
5:E2:57:GLU:CB	4:BF:33:TYR:OH	1.92	1.18
1:I3:158:LYS:HE3	1:R8:93:ASP:OD1	1.04	1.18
1:i6:13:LEU:O	1:DJ:45:MET:SD	2.01	1.18
1:C7:14:VAL:CB	1:CK:45:MET:HE1	1.28	1.18
1:J8:108:MET:HE1	1:CR:364:PHE:CZ	1.77	1.18
5:E9:21:ILE:HG23	5:EA:55:LEU:CD2	1.71	1.18
5:E9:57:GLU:CB	4:BB:33:TYR:OH	1.92	1.18
1:DD:123:ASN:ND2	1:KS:21:ALA:HB2	1.52	1.18
2:ND:55:GLY:HA3	2:FK:2:TYR:CB	1.73	1.18
1:aE:158:LYS:HE3	1:AR:93:ASP:OD1	1.04	1.18
1:CG:364:PHE:CZ	1:AR:108:MET:HE1	1.77	1.18
1:YG:81:PHE:HD2	1:DK:139:ARG:CD	1.47	1.18
1:LJ:25:PHE:CD1	1:AS:99:MET:HB2	1.78	1.18
2:aQ:11:MET:HG2	1:AS:133:LEU:CB	1.72	1.18
1:C1:139:ARG:HD2	1:bQ:81:PHE:CE2	1.76	1.18
1:I1:158:LYS:HE3	1:JG:93:ASP:OD1	1.04	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:364:PHE:CZ	1:JQ:108:MET:HE1	1.77	1.18
1:f1:139:ARG:HD2	1:C3:81:PHE:CE2	1.76	1.18
1:A3:108:MET:HE1	1:C8:364:PHE:CZ	1.77	1.18
1:Q3:158:LYS:HE3	1:J8:93:ASP:OD1	1.04	1.18
1:C4:158:LYS:HE3	1:RG:93:ASP:OD1	1.04	1.18
1:C4:364:PHE:CZ	1:ZL:108:MET:HE1	1.77	1.18
1:J4:93:ASP:OD1	1:C8:158:LYS:HE3	1.04	1.18
1:f4:139:ARG:HD2	1:C6:81:PHE:CE2	1.76	1.18
3:A5:112:ILE:CG2	2:MJ:27:ASN:CG	1.88	1.18
1:I6:81:PHE:CE2	1:CL:139:ARG:HD2	1.76	1.18
1:J6:108:MET:HE1	1:IR:364:PHE:CZ	1.77	1.18
1:S6:13:LEU:O	1:CS:45:MET:SD	2.01	1.18
1:C7:26:ASN:C	1:AK:100:ASP:OD1	1.87	1.18
1:Q7:81:PHE:CE2	1:QR:139:ARG:HD2	1.76	1.18
1:g7:81:PHE:CE2	1:C8:139:ARG:HD2	1.76	1.18
3:A9:33:ASN:ND2	1:AK:370:ASP:CG	2.00	1.18
3:AA:114:PHE:HD1	2:MK:8:ARG:CA	1.54	1.18
4:BC:32:PHE:CD2	5:FN:55:LEU:HD11	1.76	1.18
1:LD:31:LYS:HA	1:DK:316:VAL:HG22	1.24	1.18
1:aE:364:PHE:CZ	1:RG:108:MET:HE1	1.77	1.18
1:CG:158:LYS:HE3	1:ZL:93:ASP:OD1	1.03	1.18
1:AJ:82:ILE:HG13	1:JS:143:GLN:CA	1.65	1.18
1:IL:139:ARG:HD2	1:IQ:81:PHE:CE2	1.76	1.18
1:JR:261:ILE:CG2	1:KR:260:GLN:OE1	1.92	1.18
1:R1:223:GLY:HA2	1:CJ:53:TYR:CE1	1.77	1.18
1:Y1:261:ILE:CG2	1:Z1:260:GLN:OE1	1.92	1.18
1:f1:372:VAL:HG11	2:n7:11:MET:HG2	1.20	1.18
1:R4:93:ASP:OD1	1:g8:158:LYS:HE3	1.04	1.18
1:R4:261:ILE:CG2	1:S4:260:GLN:OE1	1.92	1.18
1:X4:158:LYS:HE3	1:Z8:93:ASP:OD1	1.04	1.18
2:f6:11:MET:HG2	1:QQ:372:VAL:HG11	1.20	1.18
1:g6:29:TYR:CD2	1:LP:317:PHE:HE1	1.53	1.18
1:g6:57:LYS:CD	1:CP:143:GLN:NE2	1.77	1.18
2:X7:54:THR:CA	1:QQ:62:LEU:HD12	1.74	1.18
1:Z7:261:ILE:CG2	1:a7:260:GLN:OE1	1.92	1.18
1:J8:261:ILE:CG2	1:K8:260:GLN:OE1	1.92	1.18
1:CD:47:GLU:HG3	1:YG:21:ALA:H	1.06	1.18
1:KD:50:VAL:CG2	1:KS:137:ASP:OD2	1.92	1.18
1:LD:35:PHE:HZ	1:DK:174:MET:O	1.27	1.18
1:LD:53:TYR:HD1	1:DK:222:SER:CB	1.50	1.18
1:KE:81:PHE:CE2	1:QQ:139:ARG:HD2	1.76	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZE:11:MET:HG2	1:IL:372:VAL:HG11	1.20	1.18
1:aG:13:LEU:O	1:DK:45:MET:SD	2.01	1.18
2:NJ:55:GLY:HA3	2:ES:2:TYR:CB	1.73	1.18
1:LK:25:PHE:CB	1:BP:99:MET:O	1.90	1.18
1:LK:137:ASP:OD2	1:KP:50:VAL:CG2	1.92	1.18
1:RL:93:ASP:OD1	1:QR:158:LYS:HE3	1.04	1.18
1:RL:108:MET:HE1	1:YL:364:PHE:CZ	1.77	1.18
5:EM:55:LEU:CD2	5:EO:21:ILE:HG23	1.71	1.18
1:X1:364:PHE:CZ	1:R3:108:MET:HE1	1.77	1.18
1:Y1:93:ASP:OD1	1:I6:158:LYS:HE3	1.04	1.18
1:g1:108:MET:HE1	1:gR:364:PHE:CZ	1.77	1.18
2:m1:54:THR:CA	1:CQ:62:LEU:HD12	1.74	1.18
1:X4:62:LEU:HD12	2:f8:54:THR:CA	1.74	1.18
1:i4:374:HIS:CD2	2:HD:8:ARG:NH1	2.12	1.18
2:l4:54:THR:CA	1:YG:62:LEU:HD12	1.74	1.18
1:C6:139:ARG:HD2	1:gG:81:PHE:CE2	1.76	1.18
1:I6:364:PHE:CZ	1:JL:108:MET:HE1	1.77	1.18
1:Q6:57:LYS:CG	1:CJ:143:GLN:HE22	1.57	1.18
1:C7:21:ALA:N	1:CK:47:GLU:CG	2.01	1.18
1:A7:93:ASP:OD1	1:gR:158:LYS:HE3	1.04	1.18
1:A7:261:ILE:CG2	1:B7:260:GLN:OE1	1.92	1.18
1:Q7:158:LYS:HE3	1:RQ:93:ASP:OD1	1.04	1.18
1:g8:57:LYS:CG	1:BS:143:GLN:HE22	1.57	1.18
3:AA:114:PHE:HB2	2:MK:9:SER:N	1.57	1.18
1:AD:123:ASN:HD21	1:KK:21:ALA:CB	1.52	1.18
1:DD:304:GLN:HE21	1:KS:28:ASP:HB2	1.03	1.18
1:KD:25:PHE:O	1:JS:100:ASP:CA	1.78	1.18
1:RG:261:ILE:CG2	1:SG:260:GLN:OE1	1.92	1.18
1:hG:108:MET:HE1	1:YR:364:PHE:CZ	1.77	1.18
1:DJ:222:SER:CB	1:LP:53:TYR:HD1	1.50	1.18
1:AK:82:ILE:HG13	1:KP:143:GLN:CA	1.64	1.18
1:CK:375:TRP:CZ3	1:jR:367:PRO:HG2	1.78	1.18
2:EL:45:ILE:HG13	2:EL:46:HIS:N	1.55	1.18
2:PL:54:THR:CA	1:YR:62:LEU:HD12	1.74	1.18
1:YL:139:ARG:HD2	1:QR:81:PHE:CE2	1.76	1.18
1:I1:81:PHE:CD2	1:Y6:139:ARG:CD	2.27	1.17
1:J1:261:ILE:CG2	1:K1:260:GLN:OE1	1.92	1.17
1:R1:93:ASP:OD1	1:Q6:158:LYS:HE3	1.04	1.17
1:R1:261:ILE:CG2	1:S1:260:GLN:OE1	1.92	1.17
1:X1:372:VAL:HG11	2:X3:11:MET:HG2	1.20	1.17
1:I3:81:PHE:CD2	1:I4:139:ARG:CD	2.27	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C4:62:LEU:HD12	2:XG:54:THR:CA	1.74	1.17
1:C4:81:PHE:CD2	1:aE:139:ARG:CD	2.27	1.17
1:Q4:139:ARG:HD2	1:IL:81:PHE:CE2	1.76	1.17
1:S4:100:ASP:CA	1:BS:25:PHE:O	1.92	1.17
2:W4:54:THR:CA	1:g8:62:LEU:HD12	1.74	1.17
1:g4:93:ASP:OD1	1:YG:158:LYS:HE3	1.04	1.17
1:h4:98:ASN:HB3	1:CD:28:ASP:O	1.38	1.17
1:i4:367:PRO:HG2	1:CD:375:TRP:CZ3	1.78	1.17
1:C6:139:ARG:CD	1:gG:81:PHE:CD2	2.27	1.17
1:I6:81:PHE:CD2	1:CL:139:ARG:CD	2.28	1.17
1:Q6:29:TYR:CD2	1:LJ:317:PHE:HE1	1.52	1.17
1:Q6:302:ASP:OD2	1:CS:29:TYR:OH	1.60	1.17
1:Z6:261:ILE:CG2	1:a6:260:GLN:OE1	1.92	1.17
1:h6:261:ILE:CG2	1:i6:260:GLN:OE1	1.92	1.17
1:C7:302:ASP:OD2	1:DP:29:TYR:OH	1.60	1.17
1:I7:139:ARG:CD	1:gR:81:PHE:CD2	2.28	1.17
1:R7:261:ILE:CG2	1:S7:260:GLN:OE1	1.92	1.17
1:Y7:81:PHE:CD2	1:KE:139:ARG:CD	2.27	1.17
1:h7:261:ILE:CG2	1:i7:260:GLN:OE1	1.92	1.17
1:Q8:81:PHE:CD2	1:IG:139:ARG:CD	2.27	1.17
3:A9:154:ILE:N	1:AK:145:LEU:CG	1.93	1.17
3:AA:112:ILE:CG2	2:MK:13:THR:OG1	1.92	1.17
3:AB:112:ILE:C	2:MD:23:ARG:NH2	2.03	1.17
4:BC:33:TYR:OH	5:EN:57:GLU:CB	1.92	1.17
1:CD:143:GLN:NE2	1:YG:57:LYS:CG	2.06	1.17
1:LD:153:LEU:CD2	2:FK:3:GLU:O	1.92	1.17
1:LE:261:ILE:CG2	1:ME:260:GLN:OE1	1.92	1.17
1:TE:261:ILE:CG2	1:UE:260:GLN:OE1	1.92	1.17
2:hE:54:THR:CA	1:CR:62:LEU:HD12	1.74	1.17
1:AG:93:ASP:OD1	1:YL:158:LYS:HE3	1.04	1.17
1:LJ:137:ASP:OD2	1:JS:50:VAL:CG2	1.92	1.17
2:HK:8:ARG:NH1	1:jR:374:HIS:CD2	2.12	1.17
1:JL:261:ILE:CG2	1:KL:260:GLN:OE1	1.92	1.17
1:RL:261:ILE:CG2	1:SL:260:GLN:OE1	1.92	1.17
3:AM:114:PHE:CD2	2:LS:9:SER:O	1.98	1.17
1:CQ:364:PHE:CZ	1:cQ:108:MET:HE1	1.77	1.17
1:C1:139:ARG:CD	1:bQ:81:PHE:CD2	2.27	1.17
1:X1:139:ARG:CD	1:I8:81:PHE:CD2	2.27	1.17
1:f1:81:PHE:CE2	1:QG:139:ARG:HD2	1.76	1.17
1:g1:261:ILE:CG2	1:h1:260:GLN:OE1	1.92	1.17
1:C3:62:LEU:HD12	2:n7:54:THR:CA	1.74	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:62:LEU:HD12	2:H8:54:THR:CA	1.74	1.17
1:R6:108:MET:HE1	1:Q8:364:PHE:CZ	1.77	1.17
1:R6:261:ILE:CG2	1:S6:260:GLN:OE1	1.92	1.17
1:g6:57:LYS:CG	1:CP:143:GLN:NE2	2.06	1.17
1:C7:62:LEU:HD12	2:mR:54:THR:CA	1.74	1.17
1:B7:13:LEU:O	1:DP:45:MET:SD	2.01	1.17
1:C8:81:PHE:CD2	1:AE:139:ARG:CD	2.27	1.17
1:A8:261:ILE:CG2	1:B8:260:GLN:OE1	1.92	1.17
1:g8:26:ASN:C	1:IS:100:ASP:OD1	1.87	1.17
1:j8:100:ASP:HB2	1:BD:25:PHE:O	1.43	1.17
3:AB:150:TYR:C	1:AD:145:LEU:HD13	1.60	1.17
1:LD:45:MET:HB2	1:KK:14:VAL:CG2	1.69	1.17
1:LD:137:ASP:OD2	1:KK:50:VAL:CG2	1.92	1.17
1:BE:261:ILE:CG2	1:CE:260:GLN:OE1	1.92	1.17
2:ZE:54:THR:CA	1:IQ:62:LEU:HD12	1.74	1.17
3:AI:113:TYR:C	2:MJ:5:ASN:ND2	2.01	1.17
3:AI:208:LYS:HB2	4:BM:251:TRP:CD1	1.80	1.17
1:KJ:143:GLN:CA	1:AP:82:ILE:HG13	1.65	1.17
1:LK:109:LEU:CD2	1:iR:105:GLU:HB2	1.64	1.17
2:NK:55:GLY:HA3	2:FP:2:TYR:CB	1.73	1.17
1:AQ:261:ILE:CG2	1:BQ:260:GLN:OE1	1.92	1.17
1:JQ:261:ILE:CG2	1:KQ:260:GLN:OE1	1.92	1.17
1:RR:261:ILE:CG2	1:SR:260:GLN:OE1	1.92	1.17
1:ZR:261:ILE:CG2	1:aR:260:GLN:OE1	1.92	1.17
1:hR:261:ILE:CG2	1:iR:260:GLN:OE1	1.92	1.17
2:P1:54:THR:CA	1:IG:62:LEU:HD12	1.74	1.17
1:X1:62:LEU:HD12	2:P6:54:THR:CA	1.74	1.17
5:D2:40:THR:HG22	3:AM:197:VAL:HG12	1.20	1.17
1:A3:261:ILE:CG2	1:B3:260:GLN:OE1	1.92	1.17
1:I3:62:LEU:HD12	2:X8:54:THR:CA	1.74	1.17
1:I3:364:PHE:CZ	1:RR:108:MET:HE1	1.77	1.17
2:P3:54:THR:CA	1:Q8:62:LEU:HD12	1.74	1.17
1:Q3:62:LEU:HD12	2:P8:54:THR:CA	1.74	1.17
1:Q3:139:ARG:CD	1:X4:81:PHE:CD2	2.27	1.17
1:J6:261:ILE:CG2	1:K6:260:GLN:OE1	1.92	1.17
1:g8:14:VAL:CB	1:BS:45:MET:HE1	1.28	1.17
3:AB:150:TYR:C	1:AD:145:LEU:CD1	2.11	1.17
1:DD:82:ILE:HG12	1:KS:143:GLN:CA	1.68	1.17
5:EF:55:LEU:CD2	5:EM:21:ILE:HG23	1.71	1.17
1:AG:261:ILE:CG2	1:BG:260:GLN:OE1	1.92	1.17
4:BI:33:TYR:OH	5:EM:57:GLU:CB	1.92	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:139:ARG:O	3:AN:29:ARG:NH2	1.73	1.17
1:KJ:368:GLU:OE1	1:AP:130:LYS:CD	1.93	1.17
1:LJ:25:PHE:CB	1:AS:99:MET:O	1.90	1.17
1:LK:153:LEU:CD2	2:FP:3:GLU:O	1.92	1.17
1:YL:139:ARG:CD	1:QR:81:PHE:CD2	2.28	1.17
1:CQ:81:PHE:CD2	1:gR:139:ARG:CD	2.28	1.17
2:EQ:45:ILE:HG13	2:EQ:46:HIS:N	1.55	1.17
1:C1:62:LEU:HD12	2:H6:54:THR:CA	1.74	1.17
3:A2:108:THR:HA	2:MD:7:MET:HE3	1.24	1.17
3:A2:208:LYS:HB2	4:BA:251:TRP:CD1	1.80	1.17
1:T4:30:SER:N	1:BS:315:ALA:CB	2.08	1.17
3:A5:208:LYS:HB2	4:BO:251:TRP:CD1	1.80	1.17
4:B5:251:TRP:CD1	3:AH:208:LYS:HB2	1.80	1.17
1:A6:261:ILE:CG2	1:B6:260:GLN:OE1	1.92	1.17
1:I6:139:ARG:CD	1:YR:81:PHE:CD2	2.28	1.17
1:Q6:26:ASN:C	1:AJ:100:ASP:OD1	1.87	1.17
1:g6:26:ASN:C	1:AP:100:ASP:OD1	1.87	1.17
2:H7:54:THR:CA	1:gR:62:LEU:HD12	1.74	1.17
2:M7:45:ILE:HG13	2:M7:46:HIS:N	1.55	1.17
1:Y7:139:ARG:CD	1:QQ:81:PHE:CD2	2.27	1.17
1:Z8:261:ILE:CG2	1:a8:260:GLN:OE1	1.92	1.17
3:A9:152:SER:H	1:AK:144:THR:CA	1.43	1.17
3:AC:150:TYR:O	1:AP:55:PHE:O	1.62	1.17
2:MD:2:TYR:HB3	2:GK:54:THR:OG1	1.45	1.17
5:EF:66:TYR:CB	5:EM:10:TYR:OH	1.93	1.17
1:aG:50:VAL:CG2	1:DK:137:ASP:OD2	1.93	1.17
5:EI:10:TYR:OH	5:EO:66:TYR:CB	1.93	1.17
1:BJ:99:MET:HB2	1:LP:25:PHE:CD1	1.78	1.17
1:LJ:14:VAL:O	1:JS:45:MET:HB3	1.30	1.17
1:CK:25:PHE:O	1:iR:100:ASP:CA	1.92	1.17
2:HK:10:MET:HE1	1:jR:365:HIS:NE2	1.58	1.17
3:AM:112:ILE:CG2	2:LS:19:ARG:N	2.06	1.17
1:A1:261:ILE:CG2	1:B1:260:GLN:OE1	1.92	1.17
2:H1:54:THR:CA	1:C6:62:LEU:HD12	1.74	1.17
1:I1:139:ARG:CD	1:SE:81:PHE:CD2	2.27	1.17
1:J1:93:ASP:OD1	1:IG:158:LYS:HE3	1.04	1.17
1:T1:30:SER:N	1:CJ:315:ALA:CB	2.08	1.17
1:T1:374:HIS:CD2	2:HJ:8:ARG:NH1	2.12	1.17
1:X1:81:PHE:CD2	1:IR:139:ARG:CD	2.27	1.17
2:e1:54:THR:CA	1:I6:62:LEU:HD12	1.74	1.17
1:X4:139:ARG:CD	1:CR:81:PHE:CD2	2.27	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e4:54:THR:CA	1:Y8:62:LEU:HD12	1.74	1.17
1:g4:261:ILE:CG2	1:h4:260:GLN:OE1	1.92	1.17
4:B5:251:TRP:HD1	3:AH:208:LYS:HB2	1.02	1.17
1:S6:50:VAL:CG2	1:CS:137:ASP:OD2	1.93	1.17
1:g7:81:PHE:CD2	1:C8:139:ARG:CD	2.27	1.17
1:i8:13:LEU:O	1:DD:45:MET:SD	2.01	1.17
1:KD:143:GLN:CA	1:IS:82:ILE:HG13	1.65	1.17
1:FE:30:SER:N	1:CP:315:ALA:CB	2.08	1.17
1:FE:33:TRP:CE3	1:CP:174:MET:HB3	1.80	1.17
1:KE:81:PHE:CD2	1:QQ:139:ARG:CD	2.27	1.17
1:SE:62:LEU:HD12	2:PQ:54:THR:CA	1.74	1.17
1:aE:62:LEU:HD12	2:HR:54:THR:CA	1.74	1.17
1:bE:261:ILE:CG2	1:cE:260:GLN:OE1	1.92	1.17
1:LJ:144:THR:CA	1:CS:82:ILE:HD13	1.75	1.17
1:LJ:367:PRO:HG2	1:CS:375:TRP:CE3	1.80	1.17
1:LJ:369:PHE:HZ	1:AS:107:LEU:HG	1.05	1.17
1:CK:314:GLY:O	1:jR:31:LYS:HA	1.39	1.17
1:CK:315:ALA:CB	1:jR:30:SER:N	2.08	1.17
1:LK:22:LEU:CB	1:KP:47:GLU:OE1	1.93	1.17
1:LK:27:HIS:CE1	1:DP:310:THR:O	1.98	1.17
1:AL:261:ILE:CG2	1:BL:260:GLN:OE1	1.92	1.17
1:Q1:62:LEU:HD12	2:X6:54:THR:CA	1.74	1.16
2:H3:54:THR:CA	1:g7:62:LEU:HD12	1.74	1.16
1:J3:261:ILE:CG2	1:K3:260:GLN:OE1	1.92	1.16
2:X3:54:THR:CA	1:I8:62:LEU:HD12	1.74	1.16
1:I4:158:LYS:HE3	1:A8:93:ASP:OD1	1.04	1.16
1:f4:62:LEU:HD12	2:fG:54:THR:CA	1.74	1.16
3:A5:228:ILE:HD13	3:AI:233:GLU:OE1	1.46	1.16
1:g6:21:ALA:N	1:CP:47:GLU:CG	2.01	1.16
1:J7:261:ILE:CG2	1:K7:260:GLN:OE1	1.92	1.16
1:Z7:259:PHE:CE1	1:IR:259:PHE:CE1	2.34	1.16
2:f7:54:THR:CA	1:IR:62:LEU:HD12	1.74	1.16
1:I8:139:ARG:CD	1:IR:81:PHE:CD2	2.27	1.16
1:R8:261:ILE:CG2	1:S8:260:GLN:OE1	1.92	1.16
1:g8:57:LYS:CG	1:BS:143:GLN:NE2	2.06	1.16
3:A9:29:ARG:NH1	1:AK:367:PRO:O	1.77	1.16
3:AA:208:LYS:HB2	4:BH:251:TRP:HD1	1.02	1.16
3:AA:208:LYS:HB2	4:BH:251:TRP:CD1	1.80	1.16
4:BA:32:PHE:CD2	5:FH:55:LEU:HD11	1.76	1.16
5:EA:10:TYR:OH	5:EC:66:TYR:CB	1.93	1.16
1:DD:310:THR:O	1:KS:27:HIS:CE1	1.98	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:149:THR:HG22	2:LS:15:TYR:HB2	1.17	1.16
1:LD:45:MET:HG3	1:KK:19:LYS:HE2	1.26	1.16
2:GJ:54:THR:OG1	2:MP:2:TYR:HB3	1.45	1.16
1:LJ:153:LEU:CD2	2:ES:3:GLU:O	1.92	1.16
1:CK:174:MET:HB3	1:jR:33:TRP:CD2	1.80	1.16
1:LK:35:PHE:HZ	1:DP:174:MET:O	1.27	1.16
3:AN:104:GLN:HG3	2:MP:9:SER:C	1.69	1.16
1:BP:111:ARG:HH21	1:hR:105:GLU:HG3	1.08	1.16
1:cQ:261:ILE:CG2	1:dQ:260:GLN:OE1	1.92	1.16
2:cR:45:ILE:HG13	2:cR:46:HIS:N	1.55	1.16
1:J3:259:PHE:CE1	1:Q8:259:PHE:CE1	2.34	1.16
1:Q3:259:PHE:CE1	1:J8:259:PHE:CE1	2.34	1.16
1:A4:259:PHE:CE1	1:QG:259:PHE:CE1	2.34	1.16
1:Q4:139:ARG:CD	1:IL:81:PHE:CD2	2.27	1.16
1:Q4:259:PHE:CE1	1:h8:259:PHE:CE1	2.34	1.16
1:Y4:261:ILE:CG2	1:Z4:260:GLN:OE1	1.92	1.16
1:f4:81:PHE:CD2	1:gG:139:ARG:CD	2.27	1.16
1:i4:30:SER:N	1:CD:315:ALA:CB	2.08	1.16
3:A5:233:GLU:OE1	3:AN:228:ILE:HD13	1.46	1.16
5:E5:10:TYR:OH	5:EI:66:TYR:CB	1.93	1.16
5:E5:66:TYR:CB	5:EN:10:TYR:OH	1.93	1.16
1:Y6:259:PHE:CE1	1:LE:259:PHE:CE1	2.34	1.16
1:h6:259:PHE:CE1	1:AE:259:PHE:CE1	2.34	1.16
1:Q7:259:PHE:CE1	1:RQ:259:PHE:CE1	2.34	1.16
1:R7:259:PHE:CE1	1:QQ:259:PHE:CE1	2.34	1.16
2:E8:45:ILE:HG13	2:E8:46:HIS:N	1.55	1.16
1:i8:50:VAL:CG2	1:DD:137:ASP:OD2	1.93	1.16
4:B9:251:TRP:CD1	3:AB:208:LYS:HB2	1.80	1.16
1:LD:317:PHE:HE1	1:YG:29:TYR:CD2	1.53	1.16
1:LD:367:PRO:HG2	1:DK:375:TRP:CE3	1.80	1.16
1:BE:82:ILE:HD11	1:CP:142:PHE:HB2	1.17	1.16
1:FE:33:TRP:CD2	1:CP:174:MET:HB3	1.80	1.16
1:aE:259:PHE:CE1	1:AR:259:PHE:CE1	2.34	1.16
1:ZG:261:ILE:CG2	1:aG:260:GLN:OE1	1.92	1.16
1:hG:261:ILE:CG2	1:iG:260:GLN:OE1	1.92	1.16
3:AI:104:GLN:NE2	2:MJ:19:ARG:CB	2.07	1.16
1:DJ:123:ASN:HD21	1:LP:21:ALA:CB	1.54	1.16
1:DJ:310:THR:O	1:LP:27:HIS:CE1	1.98	1.16
1:KJ:50:VAL:CG2	1:LP:137:ASP:OD2	1.92	1.16
1:LK:25:PHE:HA	1:BP:99:MET:C	1.71	1.16
1:QL:62:LEU:HD12	2:XR:54:THR:CA	1.74	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZL:261:ILE:CG2	1:aL:260:GLN:OE1	1.92	1.16
1:I1:259:PHE:CE1	1:JG:259:PHE:CE1	2.34	1.16
1:T1:33:TRP:CD2	1:CJ:174:MET:HB3	1.80	1.16
1:f1:81:PHE:CD2	1:QG:139:ARG:CD	2.27	1.16
1:g1:259:PHE:CE1	1:CQ:259:PHE:CE1	2.34	1.16
3:A2:233:GLU:OE1	3:AB:228:ILE:HD13	1.45	1.16
5:E2:66:TYR:CB	5:EB:10:TYR:OH	1.93	1.16
1:I3:259:PHE:CE1	1:R8:259:PHE:CE1	2.34	1.16
1:i4:33:TRP:CE3	1:CD:174:MET:HB3	1.80	1.16
1:j6:100:ASP:HB2	1:BJ:25:PHE:O	1.43	1.16
1:Y8:81:PHE:CD2	1:bQ:139:ARG:CD	2.27	1.16
1:g8:21:ALA:H	1:BS:47:GLU:HG3	1.06	1.16
5:E9:10:TYR:OH	5:EA:66:TYR:CB	1.93	1.16
3:AA:114:PHE:CB	2:MK:8:ARG:CA	2.24	1.16
1:CD:143:GLN:HE22	1:YG:57:LYS:CG	1.57	1.16
2:FD:3:GLU:O	1:KS:153:LEU:CD2	1.92	1.16
1:KD:25:PHE:C	1:JS:100:ASP:HA	1.64	1.16
1:LD:25:PHE:HA	1:BK:99:MET:C	1.71	1.16
1:CE:100:ASP:CA	1:CP:25:PHE:O	1.92	1.16
2:HG:54:THR:CA	1:YL:62:LEU:HD12	1.74	1.16
1:JG:261:ILE:CG2	1:KG:260:GLN:OE1	1.92	1.16
1:BJ:99:MET:C	1:LP:25:PHE:HA	1.71	1.16
1:DJ:304:GLN:HE21	1:LP:28:ASP:HB2	1.03	1.16
2:FJ:3:GLU:O	1:LP:153:LEU:CD2	1.92	1.16
1:KJ:25:PHE:O	1:KP:100:ASP:CA	1.78	1.16
1:KK:100:ASP:CA	1:KP:25:PHE:O	1.78	1.16
1:JL:259:PHE:CE1	1:YR:259:PHE:CE1	2.34	1.16
1:RQ:261:ILE:CG2	1:SQ:260:GLN:OE1	1.92	1.16
1:AR:261:ILE:CG2	1:BR:260:GLN:OE1	1.92	1.16
2:M1:45:ILE:HG13	2:M1:46:HIS:N	1.55	1.16
1:Q1:139:ARG:CD	1:IG:81:PHE:CD2	2.27	1.16
1:S1:100:ASP:CA	1:CJ:25:PHE:O	1.92	1.16
1:T1:31:LYS:HA	1:CJ:314:GLY:O	1.39	1.16
2:b1:45:ILE:HG13	2:b1:46:HIS:N	1.55	1.16
3:A2:228:ILE:HD13	3:A9:233:GLU:OE1	1.45	1.16
4:B2:251:TRP:HD1	3:AF:208:LYS:HB2	1.02	1.16
5:E2:10:TYR:OH	5:E9:66:TYR:CB	1.93	1.16
1:R3:261:ILE:CG2	1:S3:260:GLN:OE1	1.92	1.16
1:C4:139:ARG:CD	1:CG:81:PHE:CD2	2.27	1.16
1:C4:259:PHE:CE1	1:RG:259:PHE:CE1	2.34	1.16
1:A4:261:ILE:CG2	1:B4:260:GLN:OE1	1.92	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:81:PHE:CD2	1:QL:139:ARG:CD	2.27	1.16
1:J4:259:PHE:CE1	1:C8:259:PHE:CE1	2.34	1.16
1:J4:261:ILE:CG2	1:K4:260:GLN:OE1	1.92	1.16
1:R4:116:MET:HE1	1:BS:54:LEU:CD2	1.66	1.16
1:R4:259:PHE:CE1	1:g8:259:PHE:CE1	2.34	1.16
1:X4:259:PHE:CE1	1:Z8:259:PHE:CE1	2.34	1.16
1:g4:259:PHE:CE1	1:YG:259:PHE:CE1	2.34	1.16
1:h4:100:ASP:CA	1:CD:25:PHE:O	1.92	1.16
1:Q6:21:ALA:H	1:CJ:47:GLU:HG3	1.06	1.16
1:I7:81:PHE:CD2	1:CQ:139:ARG:CD	2.28	1.16
1:I7:259:PHE:CE1	1:cQ:259:PHE:CE1	2.34	1.16
1:h8:261:ILE:CG2	1:i8:260:GLN:OE1	1.92	1.16
3:AB:111:ASP:O	2:MD:23:ARG:NH2	1.77	1.16
1:DD:82:ILE:HD13	1:KS:144:THR:CA	1.75	1.16
1:LD:144:THR:CA	1:DK:82:ILE:HD13	1.75	1.16
1:FE:374:HIS:CD2	2:HP:8:ARG:NH1	2.12	1.16
1:CG:62:LEU:HD12	2:fL:54:THR:CA	1.74	1.16
1:CG:259:PHE:CE1	1:ZL:259:PHE:CE1	2.34	1.16
1:hG:259:PHE:CE1	1:CL:259:PHE:CE1	2.34	1.16
1:DJ:82:ILE:HD13	1:LP:144:THR:CA	1.75	1.16
1:LJ:25:PHE:HA	1:AS:99:MET:C	1.71	1.16
1:LJ:31:LYS:HA	1:CS:316:VAL:HG22	1.24	1.16
1:CK:142:PHE:HB2	1:hR:82:ILE:HD11	1.17	1.16
1:LK:369:PHE:HZ	1:BP:107:LEU:HG	1.05	1.16
1:C1:259:PHE:CE1	1:A6:259:PHE:CE1	2.34	1.16
1:A1:259:PHE:CE1	1:C6:259:PHE:CE1	2.34	1.16
1:X1:259:PHE:CE1	1:J6:259:PHE:CE1	2.34	1.16
1:f1:139:ARG:CD	1:C3:81:PHE:CD2	2.27	1.16
2:E4:45:ILE:HG13	2:E4:46:HIS:N	1.55	1.16
1:T4:144:THR:O	1:BS:82:ILE:HD11	1.41	1.16
1:T4:374:HIS:CD2	2:GS:8:ARG:NH1	2.12	1.16
1:f4:139:ARG:CD	1:C6:81:PHE:CD2	2.27	1.16
1:i4:33:TRP:CD2	1:CD:174:MET:HB3	1.80	1.16
1:Q6:21:ALA:N	1:CJ:47:GLU:CG	2.01	1.16
1:i6:50:VAL:CG2	1:DJ:137:ASP:OD2	1.93	1.16
1:C7:259:PHE:CE1	1:hR:259:PHE:CE1	2.34	1.16
1:Q7:62:LEU:HD12	2:XQ:54:THR:CA	1.74	1.16
1:g7:139:ARG:CD	1:AE:81:PHE:CD2	2.27	1.16
3:AA:228:ILE:HD13	3:AC:233:GLU:OE1	1.46	1.16
1:AD:130:LYS:CD	1:KK:368:GLU:OE1	1.93	1.16
1:DD:375:TRP:CE3	1:KS:367:PRO:HG2	1.80	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EH:10:TYR:OH	5:EN:66:TYR:CB	1.93	1.16
1:LK:144:THR:CA	1:DP:82:ILE:HD13	1.75	1.16
1:CL:81:PHE:CD2	1:YR:139:ARG:CD	2.28	1.16
1:IL:139:ARG:CD	1:IQ:81:PHE:CD2	2.27	1.16
1:C1:81:PHE:CD2	1:Y8:139:ARG:CD	2.27	1.15
1:J1:259:PHE:CE1	1:IG:259:PHE:CE1	2.34	1.15
1:T1:144:THR:O	1:CJ:82:ILE:HD11	1.41	1.15
4:B2:251:TRP:CD1	3:AF:208:LYS:HB2	1.80	1.15
1:R3:259:PHE:CE1	1:I8:259:PHE:CE1	2.34	1.15
1:I4:259:PHE:CE1	1:A8:259:PHE:CE1	2.34	1.15
5:E5:57:GLU:CB	4:BH:33:TYR:OH	1.91	1.15
1:Y6:81:PHE:CD2	1:SE:139:ARG:CD	2.27	1.15
1:g6:57:LYS:CG	1:CP:143:GLN:HE22	1.57	1.15
2:E7:45:ILE:HG13	2:E7:46:HIS:N	1.55	1.15
1:Z7:347:ILE:O	1:Z7:348:ASN:ND2	1.79	1.15
5:EB:140:ASP:CA	5:CB:139:LYS:CB	2.00	1.15
5:DC:25:ARG:NH2	1:DP:103:LYS:CA	2.07	1.15
1:AD:100:ASP:OD1	1:YG:26:ASN:C	1.87	1.15
1:DJ:384:ILE:HD13	1:LP:35:PHE:CE1	1.82	1.15
1:LJ:27:HIS:CE1	1:CS:310:THR:O	1.98	1.15
1:LK:35:PHE:CE1	1:DP:384:ILE:HD13	1.82	1.15
1:LK:367:PRO:HG2	1:DP:375:TRP:CE3	1.79	1.15
1:R1:105:GLU:O	1:AS:109:LEU:HD11	0.97	1.15
1:T1:33:TRP:CE3	1:CJ:174:MET:HB3	1.80	1.15
1:Q4:81:PHE:CD2	1:IQ:139:ARG:CD	2.27	1.15
1:T4:33:TRP:CE3	1:BS:174:MET:HB3	1.80	1.15
1:g4:109:LEU:HD13	1:AD:106:GLU:HA	1.23	1.15
5:E5:140:ASP:HB2	5:C5:139:LYS:HB3	1.28	1.15
1:Y6:62:LEU:HD12	2:RE:54:THR:CA	1.74	1.15
2:f6:54:THR:CA	1:KE:62:LEU:HD12	1.74	1.15
1:g6:62:LEU:HD12	2:JE:54:THR:CA	1.74	1.15
1:i6:14:VAL:CG2	1:DJ:14:VAL:CG1	2.22	1.15
1:J7:347:ILE:O	1:J7:348:ASN:ND2	1.79	1.15
1:Q7:81:PHE:CD2	1:QR:139:ARG:CD	2.28	1.15
1:Q7:139:ARG:CD	1:YL:81:PHE:CD2	2.28	1.15
1:Y7:166:LEU:HG	1:JR:96:PRO:HD2	1.29	1.15
2:f7:11:MET:HG2	1:I8:372:VAL:HG11	1.20	1.15
3:AA:193:ILE:HG13	5:EH:37:ASP:OD2	1.47	1.15
3:AB:114:PHE:O	2:MD:21:ASN:ND2	1.57	1.15
1:DD:375:TRP:CG	1:KS:368:GLU:HA	1.72	1.15
1:KD:47:GLU:OE1	1:KS:22:LEU:CB	1.93	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:22:LEU:CB	1:KK:47:GLU:OE1	1.93	1.15
1:LD:35:PHE:CE1	1:DK:384:ILE:HD13	1.82	1.15
4:BF:251:TRP:CD1	3:AO:208:LYS:HB2	1.80	1.15
5:DF:40:THR:HG22	3:AI:197:VAL:HG12	1.20	1.15
5:EF:57:GLU:CB	4:BO:33:TYR:OH	1.92	1.15
2:kG:45:ILE:HG13	2:kG:46:HIS:N	1.55	1.15
3:AH:111:ASP:CA	2:MP:19:ARG:HH22	1.58	1.15
1:DJ:120:LEU:HD11	1:LP:55:PHE:HD1	0.99	1.15
1:DJ:375:TRP:CE3	1:LP:367:PRO:HG2	1.80	1.15
1:KJ:55:PHE:CD1	1:AP:120:LEU:CD1	2.29	1.15
1:AL:347:ILE:O	1:AL:348:ASN:ND2	1.79	1.15
3:AM:233:GLU:OE1	3:AO:228:ILE:HD13	1.45	1.15
5:EM:66:TYR:CB	5:EO:10:TYR:OH	1.93	1.15
2:XQ:11:MET:HG2	1:QR:372:VAL:HG11	1.20	1.15
2:W1:54:THR:CA	1:Q6:62:LEU:HD12	1.74	1.15
1:Y1:259:PHE:CE1	1:I6:259:PHE:CE1	2.34	1.15
1:f1:259:PHE:CE1	1:AQ:259:PHE:CE1	2.34	1.15
4:B2:30:LEU:HB2	5:EA:64:TRP:CE2	1.82	1.15
1:C3:139:ARG:CD	1:QG:81:PHE:CD2	2.27	1.15
1:C3:259:PHE:CE1	1:h7:259:PHE:CE1	2.34	1.15
1:T4:33:TRP:CD2	1:BS:174:MET:HB3	1.80	1.15
4:B5:30:LEU:HB2	5:EO:64:TRP:CE2	1.82	1.15
1:Z6:96:PRO:HD2	1:KE:166:LEU:HG	1.29	1.15
1:Z6:259:PHE:CE1	1:KE:259:PHE:CE1	2.34	1.15
1:g6:259:PHE:CE1	1:BE:259:PHE:CE1	2.34	1.15
2:n6:54:THR:CA	1:AE:62:LEU:HD12	1.74	1.15
1:C7:57:LYS:CG	1:CK:143:GLN:HE22	1.57	1.15
1:A7:259:PHE:CE1	1:gR:259:PHE:CE1	2.34	1.15
1:Y7:62:LEU:HD12	2:PR:54:THR:CA	1.74	1.15
1:Y7:259:PHE:CE1	1:JR:259:PHE:CE1	2.34	1.15
1:g8:302:ASP:OD2	1:DD:29:TYR:OH	1.60	1.15
2:k8:45:ILE:HG13	2:k8:46:HIS:N	1.55	1.15
3:A9:208:LYS:HB2	4:BC:251:TRP:CD1	1.80	1.15
3:A9:228:ILE:HD13	3:AA:233:GLU:OE1	1.46	1.15
4:B9:251:TRP:HD1	3:AB:208:LYS:HB2	1.02	1.15
1:DD:222:SER:CB	1:KS:53:TYR:HD1	1.50	1.15
2:GD:54:THR:OG1	2:LS:2:TYR:HB3	1.45	1.15
1:TE:259:PHE:CE1	1:IQ:259:PHE:CE1	2.34	1.15
1:aE:81:PHE:CD2	1:CG:139:ARG:CD	2.27	1.15
1:AG:259:PHE:CE1	1:YL:259:PHE:CE1	2.34	1.15
3:AH:228:ILE:HD13	3:AN:233:GLU:OE1	1.45	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:22:LEU:CB	1:JS:47:GLU:OE1	1.93	1.15
1:IL:259:PHE:CE1	1:ZR:259:PHE:CE1	2.34	1.15
2:XL:54:THR:CA	1:QR:62:LEU:HD12	1.74	1.15
1:Q1:81:PHE:CD2	1:Q8:139:ARG:CD	2.27	1.15
1:R1:259:PHE:CE1	1:Q6:259:PHE:CE1	2.34	1.15
1:f1:62:LEU:HD12	2:HQ:54:THR:CA	1.74	1.15
3:A2:193:ILE:HG13	5:EA:37:ASP:OD2	1.47	1.15
5:E2:64:TRP:CE2	4:BF:30:LEU:HB2	1.82	1.15
2:P4:54:THR:CA	1:C8:62:LEU:HD12	1.74	1.15
1:T4:366:ASN:HA	1:KS:108:MET:HE1	1.28	1.15
1:g4:105:GLU:O	1:BK:109:LEU:HD11	0.97	1.15
1:g6:166:LEU:HG	1:BE:96:PRO:HD2	1.29	1.15
1:I7:62:LEU:HD12	2:iQ:54:THR:CA	1.74	1.15
1:h8:347:ILE:O	1:h8:348:ASN:ND2	1.79	1.15
4:BA:33:TYR:OH	5:EH:57:GLU:CB	1.92	1.15
3:AB:233:GLU:OE1	3:AF:228:ILE:HD13	1.45	1.15
5:EC:10:TYR:OH	5:EH:66:TYR:CB	1.93	1.15
1:LD:368:GLU:OE2	1:DK:375:TRP:N	1.80	1.15
2:JE:54:THR:CG2	2:NP:1:MET:SD	2.35	1.15
2:nG:54:THR:CA	1:CL:62:LEU:HD12	1.74	1.15
1:AK:130:LYS:CD	1:KP:368:GLU:OE1	1.93	1.15
1:LK:21:ALA:CB	1:DP:123:ASN:HD21	1.54	1.15
1:IL:62:LEU:HD12	2:fR:54:THR:CA	1.74	1.15
1:QL:259:PHE:CE1	1:RR:259:PHE:CE1	2.34	1.15
1:A1:347:ILE:O	1:A1:348:ASN:ND2	1.79	1.15
1:Q1:259:PHE:CE1	1:R6:259:PHE:CE1	2.34	1.15
1:C3:372:VAL:HG11	2:H4:11:MET:HG2	1.20	1.15
1:A3:259:PHE:CE1	1:g7:259:PHE:CE1	2.34	1.15
1:I3:139:ARG:CD	1:QL:81:PHE:CD2	2.27	1.15
1:Q3:81:PHE:CD2	1:CR:139:ARG:CD	2.27	1.15
1:C4:372:VAL:HG11	2:fL:11:MET:HG2	1.20	1.15
1:A4:347:ILE:O	1:A4:348:ASN:ND2	1.79	1.15
2:W4:54:THR:CG2	2:MS:1:MET:SD	2.35	1.15
3:A5:193:ILE:HG13	5:EO:37:ASP:OD2	1.47	1.15
1:A6:347:ILE:O	1:A6:348:ASN:ND2	1.79	1.15
1:T6:100:ASP:HB2	1:AS:25:PHE:O	1.43	1.15
1:i6:143:GLN:C	1:BJ:82:ILE:HD11	1.72	1.15
1:B7:50:VAL:CG2	1:DP:137:ASP:OD2	1.93	1.15
2:P7:54:THR:CA	1:bQ:62:LEU:HD12	1.74	1.15
2:n8:11:MET:HG2	1:IQ:372:VAL:HG11	1.20	1.15
5:E9:64:TRP:CE2	4:BB:30:LEU:HB2	1.82	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:114:PHE:HD1	2:MK:8:ARG:HB3	1.08	1.15
5:DA:40:THR:HG22	3:AB:197:VAL:HG12	1.20	1.15
5:EB:66:TYR:CB	5:EF:10:TYR:OH	1.93	1.15
1:BD:99:MET:C	1:KS:25:PHE:HA	1.71	1.15
1:LD:27:HIS:CE1	1:DK:310:THR:O	1.98	1.15
1:bE:259:PHE:CE1	1:CR:259:PHE:CE1	2.34	1.15
5:EF:37:ASP:OD2	3:AO:193:ILE:HG13	1.47	1.15
1:gG:62:LEU:HD12	2:HL:54:THR:CA	1.74	1.15
3:AI:228:ILE:HD13	3:AO:233:GLU:OE1	1.46	1.15
5:EI:64:TRP:CE2	4:BN:30:LEU:HB2	1.82	1.15
1:AJ:120:LEU:CD1	1:JS:55:PHE:CD1	2.29	1.15
1:AJ:361:LYS:HE2	1:JS:365:HIS:HD2	1.00	1.15
1:KJ:78:GLU:OE2	3:AN:81:LEU:HD12	1.35	1.15
1:LJ:35:PHE:HZ	1:CS:174:MET:O	1.27	1.15
1:RL:259:PHE:CE1	1:QR:259:PHE:CE1	2.34	1.15
5:EO:140:ASP:HB2	5:CO:139:LYS:HB3	1.28	1.15
1:BP:109:LEU:HD11	1:hR:105:GLU:O	0.97	1.15
1:I1:62:LEU:HD12	2:PG:54:THR:CA	1.74	1.14
2:m1:54:THR:HA	1:CQ:62:LEU:CD1	1.78	1.14
1:J3:347:ILE:O	1:J3:348:ASN:ND2	1.79	1.14
1:R4:109:LEU:HD13	1:IS:106:GLU:HA	1.23	1.14
1:g4:82:ILE:HD11	1:CD:142:PHE:HB2	1.17	1.14
3:A5:117:PRO:CA	2:MJ:19:ARG:NH1	2.07	1.14
5:E5:37:ASP:OD2	3:AH:193:ILE:HG13	1.47	1.14
1:g6:50:VAL:HG23	1:CP:137:ASP:OD2	1.48	1.14
1:A8:347:ILE:O	1:A8:348:ASN:ND2	1.79	1.14
1:R8:347:ILE:O	1:R8:348:ASN:ND2	1.79	1.14
1:i8:143:GLN:C	1:BD:82:ILE:HD11	1.72	1.14
4:B9:33:TYR:OH	5:EC:57:GLU:CB	1.92	1.14
4:BB:251:TRP:CD1	3:AM:208:LYS:HB2	1.80	1.14
5:DB:40:THR:HG22	3:AO:197:VAL:HG12	1.20	1.14
3:AC:208:LYS:HB2	4:BN:251:TRP:CD1	1.80	1.14
1:CD:55:PHE:CE2	1:YG:58:ILE:HB	1.82	1.14
1:DD:375:TRP:N	1:KS:368:GLU:OE2	1.80	1.14
1:SE:259:PHE:CE1	1:JQ:259:PHE:CE1	2.34	1.14
1:CG:62:LEU:CD1	2:fL:54:THR:HA	1.78	1.14
3:AH:112:ILE:CD1	2:MP:23:ARG:NH1	2.10	1.14
5:EI:57:GLU:CB	4:BN:33:TYR:OH	1.92	1.14
1:KJ:45:MET:HB3	1:LP:14:VAL:O	1.30	1.14
1:KJ:47:GLU:OE1	1:LP:22:LEU:CB	1.93	1.14
1:KJ:78:GLU:CD	3:AN:81:LEU:CD1	1.76	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:120:LEU:CD1	1:KP:55:PHE:CD1	2.29	1.14
2:PL:54:THR:HA	1:YR:62:LEU:CD1	1.78	1.14
2:fQ:45:ILE:HG13	2:fQ:46:HIS:N	1.55	1.14
1:J1:347:ILE:O	1:J1:348:ASN:ND2	1.79	1.14
1:R1:82:ILE:HD11	1:CJ:142:PHE:HB2	1.17	1.14
1:R3:347:ILE:O	1:R3:348:ASN:ND2	1.79	1.14
2:H4:54:THR:CA	1:QG:62:LEU:HD12	1.74	1.14
1:I4:62:LEU:CD1	2:H8:54:THR:HA	1.78	1.14
1:S6:144:THR:HA	1:AS:82:ILE:HD13	1.16	1.14
1:i6:20:SER:OG	1:DJ:47:GLU:HB2	1.40	1.14
1:B7:14:VAL:CG2	1:DP:14:VAL:CG1	2.22	1.14
1:J7:259:PHE:CE1	1:bQ:259:PHE:CE1	2.34	1.14
1:Q7:372:VAL:HG11	2:HG:11:MET:HG2	1.20	1.14
3:A9:193:ILE:HG13	5:EC:37:ASP:OD2	1.47	1.14
4:B9:33:TYR:CE1	5:EC:57:GLU:HB3	1.67	1.14
1:DD:82:ILE:HG12	1:KS:143:GLN:HA	1.15	1.14
1:DD:126:VAL:HG13	1:KS:25:PHE:HE1	1.11	1.14
1:DD:384:ILE:HD13	1:KS:35:PHE:CE1	1.82	1.14
1:KD:55:PHE:CD1	1:IS:120:LEU:CD1	2.29	1.14
1:BE:261:ILE:HG22	1:CE:260:GLN:OE1	1.48	1.14
1:gG:259:PHE:CE1	1:AL:259:PHE:CE1	2.34	1.14
1:AJ:130:LYS:CD	1:JS:368:GLU:OE1	1.93	1.14
3:AO:157:ILE:HG21	1:IS:145:LEU:HD21	1.28	1.14
1:CQ:372:VAL:HG11	2:iQ:11:MET:HG2	1.20	1.14
2:P1:54:THR:HA	1:IG:62:LEU:CD1	1.78	1.14
1:X1:62:LEU:CD1	2:P6:54:THR:HA	1.78	1.14
4:B2:33:TYR:OH	5:EA:57:GLU:CB	1.92	1.14
2:c3:45:ILE:HG13	2:c3:46:HIS:N	1.55	1.14
1:A4:261:ILE:HG22	1:B4:260:GLN:OE1	1.48	1.14
1:Q4:62:LEU:HD12	2:n8:54:THR:CA	1.74	1.14
1:R4:105:GLU:HG3	1:BD:111:ARG:HH21	1.08	1.14
1:X4:62:LEU:CD1	2:f8:54:THR:HA	1.78	1.14
2:l4:54:THR:HA	1:YG:62:LEU:CD1	1.78	1.14
3:A5:116:VAL:HG12	2:MJ:21:ASN:ND2	1.54	1.14
4:B5:33:TYR:OH	5:EO:57:GLU:CB	1.92	1.14
1:Z6:261:ILE:HG22	1:a6:260:GLN:OE1	1.48	1.14
1:g6:14:VAL:CB	1:CP:45:MET:HE1	1.28	1.14
1:C7:62:LEU:CD1	2:mR:54:THR:HA	1.78	1.14
1:Z7:261:ILE:HG22	1:a7:260:GLN:OE1	1.48	1.14
1:g8:27:HIS:HB3	1:KS:312:PRO:CD	1.78	1.14
1:h8:261:ILE:HG22	1:i8:260:GLN:OE1	1.48	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A9:151:ASN:C	1:AK:144:THR:HA	1.71	1.14
4:BA:30:LEU:HB2	5:EH:64:TRP:CE2	1.82	1.14
5:EA:140:ASP:HB2	5:CA:139:LYS:HB3	1.28	1.14
1:AD:120:LEU:CD1	1:KK:55:PHE:CD1	2.29	1.14
1:CD:47:GLU:CG	1:YG:21:ALA:N	2.01	1.14
1:KD:368:GLU:OE1	1:IS:130:LYS:CD	1.93	1.14
1:LD:174:MET:HE3	1:YG:33:TRP:N	1.29	1.14
1:BE:109:LEU:HD13	1:AP:106:GLU:HA	1.24	1.14
2:nG:11:MET:HG2	1:YR:372:VAL:HG11	1.20	1.14
1:DJ:109:LEU:HG	1:KP:105:GLU:C	1.73	1.14
1:CK:174:MET:HB3	1:jR:33:TRP:CE3	1.80	1.14
1:LK:368:GLU:OE2	1:DP:375:TRP:N	1.80	1.14
1:JR:261:ILE:HG22	1:KR:260:GLN:OE1	1.48	1.14
2:W1:54:THR:CG2	2:NJ:1:MET:SD	2.35	1.14
2:e1:54:THR:HA	1:I6:62:LEU:CD1	1.78	1.14
2:X3:54:THR:HA	1:I8:62:LEU:CD1	1.78	1.14
2:H4:54:THR:HA	1:QG:62:LEU:CD1	1.78	1.14
1:Q4:62:LEU:CD1	2:n8:54:THR:HA	1.78	1.14
2:W4:54:THR:HA	1:g8:62:LEU:CD1	1.78	1.14
4:B5:32:PHE:CD2	5:FO:55:LEU:HD11	1.76	1.14
1:i6:27:HIS:O	1:CJ:100:ASP:HB2	1.48	1.14
1:C7:58:ILE:HB	1:CK:55:PHE:CE2	1.82	1.14
2:H7:54:THR:HA	1:gR:62:LEU:CD1	1.78	1.14
1:Y7:62:LEU:CD1	2:PR:54:THR:HA	1.78	1.14
1:g8:50:VAL:HG23	1:BS:137:ASP:OD2	1.48	1.14
4:B9:32:PHE:CD2	5:FC:55:LEU:HD11	1.76	1.14
3:AA:112:ILE:O	2:MK:13:THR:CB	1.95	1.14
3:AA:112:ILE:HG22	2:MK:13:THR:CA	1.75	1.14
3:AB:83:TYR:O	1:AD:156:TYR:CE2	2.00	1.14
5:EB:64:TRP:CE2	4:BM:30:LEU:HB2	1.82	1.14
4:BC:30:LEU:HB2	5:EN:64:TRP:CE2	1.82	1.14
1:AD:82:ILE:HG13	1:KK:143:GLN:CA	1.65	1.14
5:EF:64:TRP:CE2	4:BO:30:LEU:HB2	1.82	1.14
1:LJ:35:PHE:CE1	1:CS:384:ILE:HD13	1.82	1.14
1:CK:82:ILE:HD11	1:jR:144:THR:N	1.62	1.14
1:LK:45:MET:HG3	1:KP:19:LYS:HE2	1.26	1.14
2:MK:2:TYR:HB3	2:GP:54:THR:OG1	1.45	1.14
2:NK:1:MET:SD	2:mR:54:THR:CG2	2.35	1.14
1:IL:62:LEU:CD1	2:fR:54:THR:HA	1.78	1.14
1:RQ:347:ILE:O	1:RQ:348:ASN:ND2	1.79	1.14
1:R1:109:LEU:O	1:AJ:105:GLU:HB3	1.36	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W1:54:THR:HA	1:Q6:62:LEU:CD1	1.78	1.14
1:f1:62:LEU:CD1	2:HQ:54:THR:HA	1.78	1.14
5:E2:37:ASP:OD2	3:AF:193:ILE:HG13	1.47	1.14
1:A3:347:ILE:O	1:A3:348:ASN:ND2	1.79	1.14
1:C4:62:LEU:CD1	2:XG:54:THR:HA	1.78	1.14
1:J4:347:ILE:O	1:J4:348:ASN:ND2	1.79	1.14
2:M4:45:ILE:HG13	2:M4:46:HIS:N	1.55	1.14
1:R4:105:GLU:O	1:BD:109:LEU:HD11	0.97	1.14
1:Y4:259:PHE:CE1	1:Y8:259:PHE:CE1	2.34	1.14
2:l4:54:THR:CG2	2:ND:1:MET:SD	2.35	1.14
2:H6:11:MET:HG2	1:Y8:372:VAL:HG11	1.20	1.14
1:J6:347:ILE:O	1:J6:348:ASN:ND2	1.79	1.14
4:B9:30:LEU:HB2	5:EC:64:TRP:CE2	1.82	1.14
3:AA:112:ILE:CG2	2:MK:13:THR:O	1.96	1.14
3:AC:104:GLN:HB3	1:KP:359:MET:HE2	1.28	1.14
3:AC:228:ILE:HD13	3:AH:233:GLU:OE1	1.45	1.14
1:DD:174:MET:O	1:KS:35:PHE:HZ	1.27	1.14
1:CG:166:LEU:HG	1:ZL:96:PRO:HD2	1.29	1.14
1:JG:347:ILE:O	1:JG:348:ASN:ND2	1.79	1.14
1:hG:347:ILE:O	1:hG:348:ASN:ND2	1.79	1.14
5:EI:57:GLU:HB3	4:BN:33:TYR:CE1	1.67	1.14
1:AJ:62:LEU:HG	1:KJ:88:GLU:HG2	1.17	1.14
1:AJ:315:ALA:HA	1:JS:31:LYS:N	1.63	1.14
1:DJ:82:ILE:HG12	1:LP:143:GLN:CA	1.68	1.14
1:DJ:375:TRP:N	1:LP:368:GLU:OE2	1.80	1.14
1:KJ:100:ASP:HA	1:JS:25:PHE:C	1.64	1.14
1:KJ:105:GLU:C	1:CS:109:LEU:HG	1.73	1.14
1:LJ:22:LEU:H	1:JS:47:GLU:CD	1.40	1.14
1:QL:62:LEU:CD1	2:XR:54:THR:HA	1.78	1.14
1:cQ:347:ILE:O	1:cQ:348:ASN:ND2	1.79	1.14
1:AR:261:ILE:HG22	1:BR:260:GLN:OE1	1.48	1.14
1:JR:347:ILE:O	1:JR:348:ASN:ND2	1.79	1.14
1:I1:372:VAL:HG11	2:PQ:11:MET:HG2	1.20	1.13
1:Q1:62:LEU:CD1	2:X6:54:THR:HA	1.78	1.13
1:g1:347:ILE:O	1:g1:348:ASN:ND2	1.79	1.13
3:A2:208:LYS:HB2	4:BA:251:TRP:HD1	1.02	1.13
2:H3:54:THR:HA	1:g7:62:LEU:CD1	1.78	1.13
1:T4:144:THR:N	1:BS:82:ILE:HD11	1.62	1.13
1:f4:259:PHE:CE1	1:ZG:259:PHE:CE1	2.34	1.13
1:g4:108:MET:HE1	1:DK:364:PHE:HZ	1.09	1.13
1:g4:223:GLY:CA	1:CD:53:TYR:CE1	2.31	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i4:31:LYS:HA	1:CD:314:GLY:O	1.39	1.13
1:i4:144:THR:N	1:CD:82:ILE:HD11	1.62	1.13
2:f6:54:THR:HA	1:KE:62:LEU:CD1	1.78	1.13
1:g6:62:LEU:CD1	2:JE:54:THR:HA	1.78	1.13
1:C7:166:LEU:HG	1:hR:96:PRO:HD2	1.29	1.13
2:X7:54:THR:HA	1:QQ:62:LEU:CD1	1.78	1.13
4:BB:251:TRP:HD1	3:AM:208:LYS:HB2	1.02	1.13
5:EB:57:GLU:HB3	4:BM:33:TYR:CE1	1.67	1.13
1:AD:314:GLY:O	1:KK:31:LYS:HB2	0.96	1.13
1:BE:105:GLU:HG3	1:BJ:111:ARG:HH21	1.08	1.13
1:FE:144:THR:N	1:CP:82:ILE:HD11	1.62	1.13
1:TE:347:ILE:O	1:TE:348:ASN:ND2	1.79	1.13
1:bE:210:ASN:ND2	1:CR:71:ARG:HH22	1.47	1.13
1:bE:347:ILE:O	1:bE:348:ASN:ND2	1.79	1.13
1:KJ:25:PHE:C	1:KP:100:ASP:HA	1.64	1.13
1:LJ:368:GLU:OE2	1:CS:375:TRP:N	1.80	1.13
1:CK:53:TYR:CE1	1:hR:223:GLY:CA	2.31	1.13
2:XL:54:THR:HA	1:QR:62:LEU:CD1	1.78	1.13
1:AQ:261:ILE:HG22	1:BQ:260:GLN:OE1	1.48	1.13
2:ER:45:ILE:HG13	2:ER:46:HIS:N	1.55	1.13
1:hR:347:ILE:O	1:hR:348:ASN:ND2	1.79	1.13
2:H1:11:MET:HG2	1:f4:372:VAL:HG11	1.20	1.13
1:R1:96:PRO:HD2	1:Q6:166:LEU:HG	1.29	1.13
1:A3:261:ILE:HG22	1:B3:260:GLN:OE1	1.48	1.13
1:Q3:62:LEU:CD1	2:P8:54:THR:HA	1.78	1.13
3:A5:150:TYR:HA	1:AJ:144:THR:HB	1.28	1.13
4:B5:250:ILE:HD12	3:AH:208:LYS:O	1.45	1.13
1:g6:58:ILE:HB	1:CP:55:PHE:CE2	1.82	1.13
1:Q7:71:ARG:HH22	1:RQ:210:ASN:ND2	1.47	1.13
1:R7:261:ILE:HG22	1:S7:260:GLN:OE1	1.48	1.13
1:h7:347:ILE:O	1:h7:348:ASN:ND2	1.79	1.13
1:i8:14:VAL:CG2	1:DD:14:VAL:CG1	2.22	1.13
3:AB:148:ILE:HB	1:AD:146:ALA:HB2	1.26	1.13
5:EB:37:ASP:OD2	3:AM:193:ILE:HG13	1.47	1.13
1:KD:368:GLU:CD	1:IS:130:LYS:HD3	1.74	1.13
1:SE:62:LEU:CD1	2:PQ:54:THR:HA	1.78	1.13
1:AG:210:ASN:ND2	1:YL:71:ARG:HH22	1.47	1.13
2:MG:45:ILE:HG13	2:MG:46:HIS:N	1.55	1.13
1:gG:62:LEU:CD1	2:HL:54:THR:HA	1.78	1.13
1:RL:96:PRO:HD2	1:QR:166:LEU:HG	1.29	1.13
1:JQ:347:ILE:O	1:JQ:348:ASN:ND2	1.79	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZR:261:ILE:HG22	1:aR:260:GLN:OE1	1.48	1.13
2:H3:11:MET:HG2	1:C8:372:VAL:HG11	1.20	1.13
1:g4:347:ILE:O	1:g4:348:ASN:ND2	1.79	1.13
1:i4:365:HIS:NE2	2:HD:10:MET:HE1	1.58	1.13
1:R6:347:ILE:O	1:R6:348:ASN:ND2	1.79	1.13
1:S6:20:SER:OG	1:CS:47:GLU:HB2	1.40	1.13
2:P7:54:THR:HA	1:bQ:62:LEU:CD1	1.78	1.13
1:Q7:62:LEU:CD1	2:XQ:54:THR:HA	1.78	1.13
1:J8:347:ILE:O	1:J8:348:ASN:ND2	1.79	1.13
1:i8:20:SER:OG	1:DD:47:GLU:HB2	1.40	1.13
1:i8:27:HIS:O	1:CD:100:ASP:HB2	1.48	1.13
3:A9:208:LYS:O	4:BC:250:ILE:HD12	1.45	1.13
3:AB:112:ILE:O	2:MD:22:LYS:CA	1.95	1.13
5:EB:57:GLU:CB	4:BM:33:TYR:OH	1.92	1.13
1:BD:107:LEU:HG	1:KS:369:PHE:HZ	1.05	1.13
1:KD:31:LYS:N	1:IS:315:ALA:HA	1.63	1.13
1:aG:27:HIS:O	1:CK:100:ASP:HB2	1.48	1.13
1:aG:143:GLN:C	1:BK:82:ILE:HD11	1.72	1.13
2:MJ:15:TYR:HB2	1:JS:149:THR:HG22	1.17	1.13
1:JL:347:ILE:O	1:JL:348:ASN:ND2	1.79	1.13
1:ZL:347:ILE:O	1:ZL:348:ASN:ND2	1.79	1.13
1:DP:364:PHE:HZ	1:hR:108:MET:HE1	1.09	1.13
1:RQ:261:ILE:HG22	1:SQ:260:GLN:OE1	1.48	1.13
1:C1:166:LEU:HG	1:A6:96:PRO:HD2	1.29	1.13
2:P1:11:MET:HG2	1:Q1:372:VAL:HG11	1.20	1.13
1:X1:166:LEU:HG	1:J6:96:PRO:HD2	1.29	1.13
1:C3:62:LEU:CD1	2:n7:54:THR:HA	1.78	1.13
1:I3:71:ARG:HH22	1:R8:210:ASN:ND2	1.47	1.13
1:J3:210:ASN:ND2	1:Q8:71:ARG:HH22	1.47	1.13
1:T4:38:LYS:HD3	1:BS:220:ARG:O	1.49	1.13
1:Y6:71:ARG:HH22	1:LE:210:ASN:ND2	1.47	1.13
1:h6:210:ASN:ND2	1:AE:71:ARG:HH22	1.47	1.13
1:Q7:208:LEU:CD1	1:Q7:391:ILE:HD13	1.79	1.13
2:P8:11:MET:HG2	1:CR:372:VAL:HG11	1.20	1.13
5:E9:37:ASP:OD2	3:AB:193:ILE:HG13	1.47	1.13
3:AB:116:VAL:HA	2:MD:19:ARG:HB2	1.29	1.13
4:BB:250:ILE:HD12	3:AM:208:LYS:O	1.45	1.13
1:KD:58:ILE:HB	1:KS:55:PHE:CE2	1.71	1.13
1:CE:105:GLU:CA	1:LP:109:LEU:HD21	1.79	1.13
3:AF:233:GLU:OE1	3:AM:228:ILE:HD13	1.45	1.13
1:AG:347:ILE:O	1:AG:348:ASN:ND2	1.79	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gG:71:ARG:HH22	1:AL:210:ASN:ND2	1.47	1.13
4:BI:251:TRP:CD1	3:AN:208:LYS:HB2	1.80	1.13
1:LJ:14:VAL:O	1:JS:45:MET:N	1.81	1.13
1:LJ:369:PHE:CZ	1:AS:107:LEU:HG	1.83	1.13
1:LK:14:VAL:O	1:KP:45:MET:N	1.81	1.13
1:JQ:261:ILE:HG22	1:KQ:260:GLN:OE1	1.48	1.13
1:AR:347:ILE:O	1:AR:348:ASN:ND2	1.79	1.13
1:RR:347:ILE:O	1:RR:348:ASN:ND2	1.79	1.13
1:A1:96:PRO:HD2	1:C6:166:LEU:HG	1.29	1.12
2:H1:54:THR:HA	1:C6:62:LEU:CD1	1.78	1.12
1:T1:144:THR:N	1:CJ:82:ILE:HD11	1.62	1.13
1:g1:261:ILE:HG22	1:h1:260:GLN:OE1	1.48	1.13
3:A2:208:LYS:O	4:BA:250:ILE:HD12	1.45	1.13
1:Q3:71:ARG:HH22	1:J8:210:ASN:ND2	1.47	1.13
1:R4:109:LEU:O	1:IS:105:GLU:HB2	1.49	1.12
1:f4:62:LEU:CD1	2:fG:54:THR:HA	1.78	1.13
1:h4:105:GLU:O	1:LD:109:LEU:HD21	1.49	1.12
1:Q6:58:ILE:HB	1:CJ:55:PHE:CE2	1.82	1.12
1:J7:210:ASN:ND2	1:bQ:71:ARG:HH22	1.47	1.13
2:f7:54:THR:HA	1:IR:62:LEU:CD1	1.78	1.12
1:Z8:347:ILE:O	1:Z8:348:ASN:ND2	1.79	1.13
3:A9:150:TYR:C	1:AK:144:THR:HG22	1.74	1.13
4:B9:250:ILE:HD12	3:AB:208:LYS:O	1.45	1.12
3:AB:112:ILE:O	2:MD:22:LYS:HA	1.46	1.12
3:AC:66:ILE:HD13	2:MP:54:THR:CG2	1.79	1.13
3:AC:208:LYS:O	4:BN:250:ILE:HD12	1.45	1.12
1:BD:107:LEU:HG	1:KS:369:PHE:CZ	1.83	1.13
1:DD:316:VAL:HG22	1:KS:31:LYS:HA	1.24	1.13
1:R4:223:GLY:CA	1:BS:53:TYR:CE1	2.31	1.12
1:R4:347:ILE:O	1:R4:348:ASN:ND2	1.79	1.12
2:X6:11:MET:HG2	1:Q8:372:VAL:HG11	1.20	1.12
1:I7:62:LEU:CD1	2:iQ:54:THR:HA	1.78	1.12
1:KD:19:LYS:HE2	1:KS:45:MET:HG3	1.26	1.12
2:MD:50:LYS:O	3:AF:114:PHE:CE1	2.01	1.12
2:EE:45:ILE:HG13	2:EE:46:HIS:N	1.55	1.12
1:BE:347:ILE:O	1:BE:348:ASN:ND2	1.79	1.12
2:ZE:54:THR:HA	1:IQ:62:LEU:CD1	1.78	1.13
2:nG:54:THR:HA	1:CL:62:LEU:CD1	1.78	1.13
1:AJ:130:LYS:HD3	1:JS:368:GLU:CD	1.74	1.13
1:KJ:149:THR:HG22	2:MP:15:TYR:HB2	1.17	1.12
1:KJ:368:GLU:CD	1:AP:130:LYS:HD3	1.74	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:369:PHE:CE2	1:KP:107:LEU:HB3	1.84	1.13
1:LJ:55:PHE:HD1	1:CS:120:LEU:HD11	0.98	1.13
1:LJ:38:LYS:CG	1:CS:119:LYS:NZ	2.12	1.12
1:LJ:45:MET:N	1:JS:14:VAL:CG2	2.07	1.12
1:LJ:55:PHE:CE2	1:JS:58:ILE:HB	1.71	1.13
1:KJ:25:PHE:HA	1:KP:100:ASP:HA	1.31	1.12
1:LJ:145:LEU:HD21	1:CS:80:ASP:HB3	1.31	1.12
1:AK:314:GLY:O	1:KP:31:LYS:HB2	0.96	1.12
1:KK:107:LEU:HB3	1:KP:369:PHE:CE2	1.84	1.13
3:AO:64:GLN:HA	1:IS:146:ALA:CB	1.77	1.13
1:TE:210:ASN:ND2	1:IQ:71:ARG:HH22	1.47	1.12
1:hG:96:PRO:HD2	1:CL:166:LEU:HG	1.29	1.12
3:AH:112:ILE:CG1	2:MP:23:ARG:HH12	1.60	1.12
1:LK:14:VAL:O	1:KP:45:MET:HB3	1.30	1.12
2:aQ:2:TYR:CE2	1:AS:157:LYS:NZ	2.17	1.12
1:C1:62:LEU:CD1	2:H6:54:THR:HA	1.78	1.12
1:I1:62:LEU:CD1	2:PG:54:THR:HA	1.78	1.12
1:R1:223:GLY:CA	1:CJ:53:TYR:CE1	2.31	1.12
1:S1:105:GLU:O	1:LJ:109:LEU:HD21	1.49	1.12
1:C3:71:ARG:HH22	1:h7:210:ASN:ND2	1.47	1.12
1:Q3:166:LEU:HG	1:J8:96:PRO:HD2	1.29	1.12
1:R3:96:PRO:HD2	1:I8:166:LEU:HG	1.29	1.12
2:d3:2:TYR:CE2	1:BD:157:LYS:NZ	2.17	1.12
1:J4:210:ASN:ND2	1:C8:71:ARG:HH22	1.47	1.12
1:S4:105:GLU:CA	1:KS:109:LEU:HD21	1.79	1.12
2:e4:54:THR:HA	1:Y8:62:LEU:CD1	1.78	1.12
1:Z6:347:ILE:O	1:Z6:348:ASN:ND2	1.79	1.12
1:h6:96:PRO:HD2	1:AE:166:LEU:HG	1.29	1.12
1:J7:96:PRO:HD2	1:bQ:166:LEU:HG	1.29	1.12
2:H8:11:MET:HG2	1:QL:372:VAL:HG11	1.20	1.12
1:g8:58:ILE:HB	1:BS:55:PHE:CE2	1.82	1.12
5:F9:55:LEU:HD11	4:BB:32:PHE:CD2	1.76	1.12
1:CD:137:ASP:OD2	1:YG:50:VAL:HG23	1.48	1.12
1:DD:119:LYS:NZ	1:KS:38:LYS:CG	2.12	1.12
1:LD:312:PRO:CD	1:YG:27:HIS:HB3	1.78	1.12
1:LD:369:PHE:CZ	1:BK:107:LEU:HG	1.83	1.12
1:BE:105:GLU:O	1:BJ:109:LEU:HD11	0.97	1.12
1:aE:71:ARG:HH22	1:AR:210:ASN:ND2	1.47	1.12
4:BI:30:LEU:HB2	5:EM:64:TRP:CE2	1.82	1.12
1:DJ:80:ASP:HB3	1:LP:145:LEU:CD2	1.80	1.12
1:KJ:19:LYS:HE2	1:LP:45:MET:HG3	1.26	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:145:LEU:CD2	1:CS:80:ASP:HB3	1.79	1.12
2:MJ:2:TYR:HB3	2:FS:54:THR:OG1	1.45	1.12
1:IL:166:LEU:HG	1:ZR:96:PRO:HD2	1.29	1.12
1:C1:71:ARG:HH22	1:A6:210:ASN:ND2	1.47	1.12
1:A1:210:ASN:ND2	1:C6:71:ARG:HH22	1.47	1.12
1:I1:71:ARG:HH22	1:JG:210:ASN:ND2	1.47	1.12
1:T1:366:ASN:HA	1:LJ:108:MET:HE1	1.28	1.12
1:f1:166:LEU:HG	1:AQ:96:PRO:HD2	1.29	1.12
2:P3:54:THR:HA	1:Q8:62:LEU:CD1	1.78	1.12
2:U3:45:ILE:HG13	2:U3:46:HIS:N	1.55	1.12
1:C4:71:ARG:HH22	1:RG:210:ASN:ND2	1.47	1.12
2:P4:54:THR:HA	1:C8:62:LEU:CD1	1.78	1.12
1:R4:210:ASN:ND2	1:g8:71:ARG:HH22	1.47	1.12
1:X4:372:VAL:HG11	2:hE:11:MET:HG2	1.20	1.12
1:J6:261:ILE:HG22	1:K6:260:GLN:OE1	1.48	1.12
1:Y6:62:LEU:CD1	2:RE:54:THR:HA	1.78	1.12
1:Y6:166:LEU:HG	1:LE:96:PRO:HD2	1.29	1.12
1:g6:45:MET:SD	1:CP:14:VAL:HA	1.90	1.12
1:h6:347:ILE:O	1:h6:348:ASN:ND2	1.79	1.12
2:n6:54:THR:HA	1:AE:62:LEU:CD1	1.78	1.12
1:Z7:96:PRO:HD2	1:IR:166:LEU:HG	1.29	1.12
1:h7:261:ILE:HG22	1:i7:260:GLN:OE1	1.48	1.12
1:KD:45:MET:N	1:KS:14:VAL:O	1.81	1.12
1:LD:14:VAL:O	1:KK:45:MET:HB3	1.30	1.12
1:LD:47:GLU:HB2	1:KK:22:LEU:HD23	1.13	1.12
1:RG:347:ILE:O	1:RG:348:ASN:ND2	1.79	1.12
3:AH:197:VAL:HG12	5:DI:40:THR:HG22	1.20	1.12
3:AI:193:ILE:HG13	5:EM:37:ASP:OD2	1.47	1.12
1:AJ:123:ASN:HD21	1:JS:21:ALA:CB	1.51	1.12
1:BJ:107:LEU:HG	1:LP:369:PHE:CZ	1.83	1.12
1:BJ:157:LYS:NZ	2:iL:2:TYR:CE2	2.18	1.12
1:DJ:119:LYS:NZ	1:LP:38:LYS:CG	2.12	1.12
1:DJ:174:MET:O	1:LP:35:PHE:HZ	1.27	1.12
1:KJ:22:LEU:N	1:LP:47:GLU:CD	1.85	1.12
1:AK:130:LYS:HD3	1:KP:368:GLU:CD	1.74	1.12
1:JL:261:ILE:HG22	1:KL:260:GLN:OE1	1.48	1.12
1:RL:108:MET:HE1	1:YL:364:PHE:HZ	0.96	1.12
3:AO:151:ASN:HB2	1:IS:58:ILE:HD12	1.27	1.12
1:Q1:71:ARG:HH22	1:R6:210:ASN:ND2	1.47	1.12
1:R1:105:GLU:HG3	1:AS:111:ARG:HH21	1.08	1.12
1:X1:364:PHE:HZ	1:R3:108:MET:HE1	0.96	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y1:108:MET:HE1	1:CL:364:PHE:HZ	0.96	1.12
1:I3:62:LEU:CD1	2:X8:54:THR:HA	1.78	1.12
1:I3:372:VAL:HG11	2:XR:11:MET:HG2	1.20	1.12
2:P3:11:MET:HG2	1:IG:372:VAL:HG11	1.20	1.12
1:A4:210:ASN:ND2	1:QG:71:ARG:HH22	1.47	1.12
1:R4:261:ILE:HG22	1:S4:260:GLN:OE1	1.48	1.12
1:Y4:347:ILE:O	1:Y4:348:ASN:ND2	1.79	1.12
5:E5:64:TRP:CE2	4:BH:30:LEU:HB2	1.82	1.12
1:C6:372:VAL:HG11	2:HL:11:MET:HG2	1.20	1.12
1:C7:50:VAL:HG23	1:CK:137:ASP:OD2	1.48	1.12
1:I7:166:LEU:HG	1:cQ:96:PRO:HD2	1.29	1.12
1:R7:210:ASN:ND2	1:QQ:71:ARG:HH22	1.47	1.12
2:c7:45:ILE:HG13	2:c7:46:HIS:N	1.55	1.12
1:h8:108:MET:HE1	1:IQ:364:PHE:HZ	0.96	1.12
1:j8:105:GLU:O	1:CD:109:LEU:HD13	1.49	1.12
5:EA:10:TYR:OH	5:EC:66:TYR:HA	1.49	1.12
1:AD:315:ALA:HA	1:KK:31:LYS:N	1.63	1.12
1:DD:109:LEU:HG	1:JS:105:GLU:C	1.73	1.12
1:KD:14:VAL:CG2	1:KS:45:MET:N	2.07	1.12
1:KD:369:PHE:CE2	1:JS:107:LEU:HB3	1.84	1.12
1:BE:108:MET:HE1	1:DJ:364:PHE:HZ	1.08	1.12
1:LE:347:ILE:O	1:LE:348:ASN:ND2	1.79	1.12
1:aE:372:VAL:HG11	2:XG:11:MET:HG2	1.20	1.12
2:hE:54:THR:HA	1:CR:62:LEU:CD1	1.78	1.12
1:AG:261:ILE:HG22	1:BG:260:GLN:OE1	1.48	1.12
1:gG:166:LEU:HG	1:AL:96:PRO:HD2	1.29	1.12
4:BI:32:PHE:CD2	5:FM:55:LEU:HD11	1.76	1.12
4:BI:250:ILE:HD12	3:AN:208:LYS:O	1.45	1.12
1:BJ:107:LEU:HG	1:LP:369:PHE:HZ	1.05	1.12
1:KJ:22:LEU:HD23	1:LP:47:GLU:HB2	1.13	1.12
1:KJ:61:THR:CG2	1:LP:57:LYS:CE	2.28	1.12
1:LJ:21:ALA:HB2	1:CS:123:ASN:ND2	1.52	1.12
1:KK:100:ASP:HA	1:KP:25:PHE:C	1.64	1.12
1:KK:105:GLU:C	1:DP:109:LEU:HG	1.73	1.12
1:LK:143:GLN:CA	1:DP:82:ILE:HG12	1.68	1.12
1:LK:145:LEU:CD2	1:DP:80:ASP:HB3	1.80	1.12
1:RL:210:ASN:ND2	1:QR:71:ARG:HH22	1.47	1.12
1:RL:347:ILE:O	1:RL:348:ASN:ND2	1.79	1.12
1:hR:261:ILE:HG22	1:iR:260:GLN:OE1	1.48	1.12
1:IS:62:LEU:HG	1:JS:88:GLU:HG2	1.17	1.12
1:R1:210:ASN:ND2	1:Q6:71:ARG:HH22	1.47	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R1:347:ILE:O	1:R1:348:ASN:ND2	1.79	1.12
1:S1:105:GLU:CA	1:LJ:109:LEU:HD21	1.79	1.12
1:Y1:261:ILE:HG22	1:Z1:260:GLN:OE1	1.48	1.12
5:E2:57:GLU:HB3	4:BF:33:TYR:CE1	1.67	1.12
1:C3:364:PHE:HZ	1:A4:108:MET:HE1	0.96	1.12
1:Q4:71:ARG:HH22	1:h8:210:ASN:ND2	1.47	1.12
1:g4:261:ILE:HG22	1:h4:260:GLN:OE1	1.48	1.12
1:Q6:29:TYR:HD2	1:LJ:317:PHE:CE1	1.61	1.12
1:g6:27:HIS:HB3	1:LP:312:PRO:CD	1.78	1.12
1:C7:27:HIS:HB3	1:LK:312:PRO:CD	1.78	1.12
1:C7:45:MET:SD	1:CK:14:VAL:HA	1.90	1.12
1:A7:108:MET:HE1	1:I7:364:PHE:HZ	0.96	1.12
1:A7:261:ILE:HG22	1:B7:260:GLN:OE1	1.48	1.12
1:A7:347:ILE:O	1:A7:348:ASN:ND2	1.79	1.12
1:B7:20:SER:CB	1:DP:47:GLU:HB2	1.76	1.12
2:H7:11:MET:HG2	1:I7:372:VAL:HG11	1.20	1.12
1:R7:347:ILE:O	1:R7:348:ASN:ND2	1.79	1.12
1:Y7:71:ARG:HH22	1:JR:210:ASN:ND2	1.47	1.12
1:Z8:261:ILE:HG22	1:a8:260:GLN:OE1	1.48	1.12
5:E9:10:TYR:OH	5:EA:66:TYR:HB2	1.50	1.12
3:AC:208:LYS:HB2	4:BN:251:TRP:HD1	1.02	1.12
1:AD:58:ILE:HD12	3:AF:154:ILE:HG23	1.31	1.12
1:KD:31:LYS:HB2	1:IS:314:GLY:O	0.96	1.12
1:LD:47:GLU:HG3	1:KK:20:SER:HB2	1.28	1.12
1:LD:363:PRO:HG2	2:FK:9:SER:CB	1.80	1.12
1:ZG:347:ILE:O	1:ZG:348:ASN:ND2	1.79	1.12
1:aG:14:VAL:CG2	1:DK:14:VAL:CG1	2.22	1.12
3:AI:104:GLN:HG2	2:MJ:19:ARG:HG2	1.27	1.12
4:BI:33:TYR:CE1	5:EM:57:GLU:HB3	1.67	1.12
5:EI:37:ASP:OD2	3:AN:193:ILE:HG13	1.47	1.12
1:AJ:314:GLY:O	1:JS:31:LYS:HB2	0.96	1.12
1:DJ:316:VAL:HG22	1:LP:31:LYS:HA	1.24	1.12
1:LJ:143:GLN:HA	1:CS:82:ILE:HG12	1.15	1.12
1:AK:105:GLU:HB3	1:hR:109:LEU:O	1.36	1.12
2:NK:55:GLY:C	2:FP:2:TYR:HB2	1.75	1.12
1:QL:71:ARG:HH22	1:RR:210:ASN:ND2	1.47	1.12
1:ZR:347:ILE:O	1:ZR:348:ASN:ND2	1.79	1.12
1:Y1:347:ILE:O	1:Y1:348:ASN:ND2	1.79	1.11
1:I4:372:VAL:HG11	2:X8:11:MET:HG2	1.20	1.11
1:i4:366:ASN:HA	1:LD:108:MET:HE1	1.28	1.11
3:A5:112:ILE:HD12	2:MJ:27:ASN:CG	1.75	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P6:11:MET:HG2	1:IR:372:VAL:HG11	1.20	1.11
1:S6:14:VAL:CG2	1:CS:14:VAL:CG1	2.22	1.11
1:h6:108:MET:HE1	1:g7:364:PHE:HZ	0.96	1.11
1:B7:27:HIS:O	1:CP:100:ASP:HB2	1.48	1.11
1:J7:261:ILE:HG22	1:K7:260:GLN:OE1	1.48	1.11
5:EB:140:ASP:HB2	5:CB:139:LYS:HB3	1.28	1.11
5:FB:55:LEU:HD11	4:BM:32:PHE:CD2	1.76	1.11
1:KD:100:ASP:HA	1:KK:25:PHE:C	1.64	1.11
1:KD:107:LEU:HB3	1:KK:369:PHE:CE2	1.84	1.11
1:LD:21:ALA:HB2	1:DK:123:ASN:ND2	1.52	1.11
1:LD:47:GLU:OE1	1:KK:22:LEU:N	1.83	1.11
1:FE:38:LYS:HD3	1:CP:220:ARG:O	1.49	1.11
1:FE:366:ASN:HA	1:LP:108:MET:HE1	1.28	1.11
1:TE:261:ILE:HG22	1:UE:260:GLN:OE1	1.48	1.11
1:aE:62:LEU:CD1	2:HR:54:THR:HA	1.78	1.11
1:aG:144:THR:HA	1:BK:82:ILE:HD13	1.16	1.11
3:AH:151:ASN:HA	1:AP:135:ASN:CG	1.73	1.11
3:AI:208:LYS:HB2	4:BM:251:TRP:HD1	1.02	1.11
4:BI:251:TRP:HD1	3:AN:208:LYS:HB2	1.02	1.11
1:KJ:31:LYS:N	1:AP:315:ALA:HA	1.63	1.11
1:KJ:80:ASP:CB	3:AN:64:GLN:C	2.21	1.11
1:LJ:25:PHE:HE1	1:CS:126:VAL:HG13	1.11	1.11
1:CK:220:ARG:O	1:jR:38:LYS:HD3	1.49	1.11
1:LK:58:ILE:CG2	1:KP:55:PHE:CD2	2.33	1.11
1:LK:369:PHE:CZ	1:BP:107:LEU:HG	1.83	1.11
3:AM:116:VAL:CB	2:LS:7:MET:HE1	1.47	1.11
5:EN:140:ASP:HB2	5:CN:139:LYS:HB3	1.28	1.11
1:AQ:347:ILE:O	1:AQ:348:ASN:ND2	1.79	1.11
1:CR:208:LEU:CD1	1:CR:391:ILE:HD13	1.79	1.11
1:C1:372:VAL:HG11	2:P7:11:MET:HG2	1.20	1.11
1:J1:210:ASN:ND2	1:IG:71:ARG:HH22	1.47	1.11
1:f1:71:ARG:HH22	1:AQ:210:ASN:ND2	1.47	1.11
1:A3:210:ASN:ND2	1:g7:71:ARG:HH22	1.47	1.11
1:R4:82:ILE:HD11	1:BS:142:PHE:HB2	1.17	1.11
1:Y4:261:ILE:HG22	1:Z4:260:GLN:OE1	1.48	1.11
3:A5:117:PRO:HA	2:MJ:19:ARG:NH1	1.14	1.11
3:A5:149:GLN:OE1	1:AJ:145:LEU:CB	1.99	1.11
5:D5:40:THR:HG22	3:AC:197:VAL:HG12	1.20	1.11
5:E5:66:TYR:HB2	5:EN:10:TYR:OH	1.50	1.11
1:Q6:27:HIS:HB3	1:LJ:312:PRO:CD	1.78	1.11
1:Q6:310:THR:CG2	1:CS:27:HIS:HE1	1.63	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i6:20:SER:CB	1:DJ:47:GLU:HB2	1.76	1.11
1:C7:310:THR:CG2	1:DP:27:HIS:HE1	1.63	1.11
1:Q7:166:LEU:HG	1:RQ:96:PRO:HD2	1.29	1.11
1:Z7:210:ASN:ND2	1:IR:71:ARG:HH22	1.47	1.11
1:A8:108:MET:HE1	1:QL:364:PHE:HZ	0.96	1.11
3:AC:193:ILE:HG13	5:EN:37:ASP:OD2	1.47	1.11
5:EC:10:TYR:OH	5:EH:66:TYR:HB2	1.50	1.11
1:KD:105:GLU:C	1:DK:109:LEU:HG	1.73	1.11
1:LD:14:VAL:O	1:KK:45:MET:N	1.81	1.11
1:FE:30:SER:HA	1:CP:315:ALA:HB2	1.33	1.11
1:KE:364:PHE:HZ	1:JR:108:MET:HE1	0.96	1.11
1:SE:71:ARG:HH22	1:JQ:210:ASN:ND2	1.47	1.11
1:RG:261:ILE:HG22	1:SG:260:GLN:OE1	1.48	1.11
1:DJ:123:ASN:ND2	1:LP:21:ALA:HB2	1.51	1.11
2:FJ:2:TYR:HB2	2:NP:55:GLY:C	1.75	1.11
2:FJ:9:SER:CB	1:LP:363:PRO:HG2	1.80	1.11
1:KJ:22:LEU:N	1:LP:47:GLU:OE1	1.83	1.11
1:KJ:45:MET:N	1:LP:14:VAL:O	1.81	1.11
1:AK:315:ALA:HA	1:KP:31:LYS:N	1.63	1.11
1:LK:57:LYS:CE	1:KP:61:THR:CG2	2.28	1.11
2:ML:45:ILE:HG13	2:ML:46:HIS:N	1.55	1.11
1:J1:108:MET:HE1	1:Q1:364:PHE:HZ	0.96	1.11
1:T1:365:HIS:NE2	2:HJ:10:MET:SD	2.24	1.11
2:U1:17:ASP:OD2	1:CJ:145:LEU:HD11	1.50	1.11
1:I4:71:ARG:HH22	1:A8:210:ASN:ND2	1.47	1.11
1:S4:105:GLU:O	1:KS:109:LEU:HD21	1.49	1.11
2:U4:1:MET:N	1:BS:150:ASN:OD1	1.84	1.11
1:g4:109:LEU:O	1:AD:105:GLU:HB3	1.36	1.11
3:A5:150:TYR:HB3	1:AJ:144:THR:HA	1.20	1.11
5:E5:10:TYR:OH	5:EI:66:TYR:HA	1.49	1.11
1:Q6:45:MET:SD	1:CJ:14:VAL:HA	1.90	1.11
2:U6:45:ILE:HG13	2:U6:46:HIS:N	1.55	1.11
1:B7:144:THR:HA	1:BP:82:ILE:HD13	1.16	1.11
1:I7:71:ARG:HH22	1:cQ:210:ASN:ND2	1.47	1.11
1:i8:13:LEU:O	1:DD:45:MET:HG2	1.29	1.11
3:A9:153:ASP:OD1	1:AK:145:LEU:CG	1.99	1.11
5:EC:140:ASP:CA	5:CC:139:LYS:CB	2.00	1.11
1:AD:130:LYS:HD3	1:KK:368:GLU:CD	1.74	1.11
1:DD:80:ASP:HB3	1:KS:145:LEU:CD2	1.80	1.11
1:KD:22:LEU:HD23	1:KS:47:GLU:HB2	1.13	1.11
1:LD:28:ASP:HB2	1:DK:304:GLN:HE21	1.03	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:57:LYS:CE	1:KK:61:THR:CG2	2.28	1.11
1:LD:369:PHE:HZ	1:BK:107:LEU:HG	1.05	1.11
1:BE:223:GLY:CA	1:CP:53:TYR:CE1	2.31	1.11
1:LE:108:MET:HE1	1:SE:364:PHE:HZ	0.96	1.11
2:RE:11:MET:HG2	1:SE:372:VAL:HG11	1.20	1.11
1:cE:47:GLU:HB3	1:CG:20:SER:HB2	1.33	1.11
1:ZG:261:ILE:HG22	1:aG:260:GLN:OE1	1.48	1.11
2:cG:45:ILE:HG13	2:cG:46:HIS:N	1.55	1.11
1:LK:21:ALA:HB1	1:DP:123:ASN:ND2	1.65	1.11
1:LK:38:LYS:CG	1:DP:119:LYS:NZ	2.12	1.11
1:LK:55:PHE:HD1	1:DP:120:LEU:HD11	0.98	1.11
1:IL:71:ARG:HH22	1:ZR:210:ASN:ND2	1.47	1.11
2:UL:45:ILE:HG13	2:UL:46:HIS:N	1.55	1.11
1:QR:208:LEU:CD1	1:QR:391:ILE:HD13	1.79	1.11
1:A1:261:ILE:HG22	1:B1:260:GLN:OE1	1.48	1.11
1:I1:20:SER:HB2	1:UE:47:GLU:HB3	1.33	1.11
1:T1:38:LYS:HD3	1:CJ:220:ARG:O	1.49	1.11
2:e1:11:MET:HG2	1:CL:372:VAL:HG11	1.20	1.11
2:j1:45:ILE:HG13	2:j1:46:HIS:N	1.55	1.11
2:m1:11:MET:HG2	1:gR:372:VAL:HG11	1.20	1.11
4:B2:32:PHE:CD2	5:FA:55:LEU:HD11	1.76	1.11
5:E2:10:TYR:OH	5:E9:66:TYR:HA	1.49	1.11
1:g4:105:GLU:HG3	1:BK:111:ARG:HH21	1.08	1.11
2:j4:1:MET:N	1:CD:150:ASN:OD1	1.84	1.11
2:E6:45:ILE:HG13	2:E6:46:HIS:N	1.55	1.11
1:K6:47:GLU:HB3	1:CL:20:SER:HB2	1.33	1.11
1:Q6:50:VAL:HG23	1:CJ:137:ASP:OD2	1.48	1.11
1:Z6:210:ASN:ND2	1:KE:71:ARG:HH22	1.47	1.11
1:I7:20:SER:HB2	1:iR:47:GLU:HB3	1.33	1.11
1:a7:47:GLU:HB3	1:KE:20:SER:HB2	1.33	1.11
1:i7:47:GLU:HB3	1:C8:20:SER:HB2	1.33	1.11
1:J8:108:MET:HE1	1:CR:364:PHE:HZ	0.96	1.11
1:g8:45:MET:SD	1:BS:14:VAL:HA	1.90	1.11
1:i8:144:THR:CA	1:BD:82:ILE:HD13	1.70	1.11
1:AD:116:MET:HG3	1:KK:51:ASN:ND2	1.65	1.11
1:KD:22:LEU:N	1:KS:47:GLU:OE1	1.83	1.11
1:LD:145:LEU:CD2	1:DK:80:ASP:HB3	1.79	1.11
1:KE:372:VAL:HG11	2:PR:11:MET:HG2	1.20	1.11
1:KJ:31:LYS:HB2	1:AP:314:GLY:O	0.96	1.11
1:AK:105:GLU:HB2	1:hR:109:LEU:O	1.49	1.11
1:AK:361:LYS:HE3	1:KP:365:HIS:CD2	1.83	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:109:LEU:HD21	1:iR:105:GLU:CA	1.79	1.11
1:AL:261:ILE:HG22	1:BL:260:GLN:OE1	1.48	1.11
2:XL:11:MET:HG2	1:YL:372:VAL:HG11	1.20	1.11
3:AO:64:GLN:HA	1:IS:146:ALA:CA	1.29	1.11
1:RR:261:ILE:HG22	1:SR:260:GLN:OE1	1.48	1.11
1:IS:60:GLU:CB	1:JS:87:GLU:O	1.99	1.11
1:C1:20:SER:HB2	1:dQ:47:GLU:HB3	1.33	1.11
1:Y1:96:PRO:HD2	1:I6:166:LEU:HG	1.29	1.11
1:g1:210:ASN:ND2	1:CQ:71:ARG:HH22	1.47	1.11
1:Q3:364:PHE:HZ	1:Z8:108:MET:HE1	0.96	1.11
2:a3:2:TYR:CE2	1:BK:157:LYS:NZ	2.18	1.11
1:S4:105:GLU:HB3	1:KS:109:LEU:HD23	1.33	1.11
1:h4:105:GLU:CA	1:LD:109:LEU:HD21	1.79	1.11
1:C6:20:SER:HB2	1:iG:47:GLU:HB3	1.33	1.11
1:A6:261:ILE:HG22	1:B6:260:GLN:OE1	1.48	1.11
2:M6:45:ILE:HG13	2:M6:46:HIS:N	1.55	1.11
1:Q6:208:LEU:CD1	1:Q6:391:ILE:HD13	1.79	1.11
1:g6:71:ARG:HH22	1:BE:210:ASN:ND2	1.47	1.11
1:A7:96:PRO:HD2	1:gR:166:LEU:HG	1.29	1.11
1:D7:105:GLU:O	1:CP:109:LEU:HD13	1.49	1.11
5:EB:66:TYR:HB2	5:EF:10:TYR:OH	1.50	1.11
1:AD:361:LYS:HE2	1:KK:365:HIS:HD2	1.00	1.11
1:LD:38:LYS:CG	1:DK:119:LYS:NZ	2.12	1.11
1:DE:81:PHE:CE2	1:BP:139:ARG:CD	2.34	1.11
1:TE:96:PRO:HD2	1:IQ:166:LEU:HG	1.29	1.11
2:HG:54:THR:HA	1:YL:62:LEU:CD1	1.78	1.11
1:hG:108:MET:HE1	1:YR:364:PHE:HZ	0.96	1.11
1:hG:210:ASN:ND2	1:CL:71:ARG:HH22	1.47	1.11
1:AJ:116:MET:HG3	1:JS:51:ASN:ND2	1.65	1.11
1:KJ:107:LEU:HB3	1:JS:369:PHE:CE2	1.84	1.11
1:LJ:363:PRO:HG2	2:ES:9:SER:CB	1.80	1.11
1:AK:60:GLU:CB	1:KK:87:GLU:O	1.99	1.11
1:AK:62:LEU:HG	1:KK:88:GLU:HG2	1.17	1.11
1:AK:106:GLU:HA	1:hR:109:LEU:HD13	1.24	1.11
3:AO:33:ASN:HB2	1:IS:135:ASN:OD1	1.32	1.11
2:MR:45:ILE:HG13	2:MR:46:HIS:N	1.55	1.11
1:C3:166:LEU:HG	1:h7:96:PRO:HD2	1.29	1.10
1:A3:96:PRO:HD2	1:g7:166:LEU:HG	1.29	1.10
1:Q3:208:LEU:CD1	1:Q3:391:ILE:HD13	1.79	1.10
1:X4:71:ARG:HH22	1:Z8:210:ASN:ND2	1.47	1.10
1:R6:261:ILE:HG22	1:S6:260:GLN:OE1	1.48	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:21:ALA:H	1:CP:47:GLU:HG3	1.06	1.10
1:j6:105:GLU:O	1:CJ:109:LEU:HD13	1.49	1.10
5:E9:57:GLU:HB3	4:BB:33:TYR:CE1	1.67	1.10
3:AA:114:PHE:HB2	2:MK:8:ARG:CA	1.81	1.10
1:AD:58:ILE:CD1	3:AF:32:PHE:CZ	2.14	1.10
1:AD:60:GLU:CB	1:KD:87:GLU:O	1.99	1.10
1:CD:14:VAL:HA	1:YG:45:MET:SD	1.90	1.10
1:KD:55:PHE:HE2	1:KS:58:ILE:HG23	1.16	1.10
1:KD:61:THR:CG2	1:KS:57:LYS:CE	2.28	1.10
1:LD:55:PHE:CD1	1:DK:120:LEU:HD11	1.86	1.10
1:CE:105:GLU:O	1:LP:109:LEU:HD21	1.49	1.10
2:fG:11:MET:HG2	1:gG:372:VAL:HG11	1.20	1.10
1:LJ:55:PHE:CD1	1:CS:120:LEU:HD11	1.86	1.10
1:LK:47:GLU:OE1	1:KP:22:LEU:N	1.83	1.10
2:E1:45:ILE:HG13	2:E1:46:HIS:N	1.55	1.10
1:R1:105:GLU:CB	1:AS:109:LEU:CD1	2.29	1.10
3:A2:106:ARG:O	2:MD:7:MET:SD	2.10	1.10
2:b4:45:ILE:HG13	2:b4:46:HIS:N	1.55	1.10
1:g4:210:ASN:ND2	1:YG:71:ARG:HH22	1.47	1.10
4:B5:33:TYR:CE1	5:EO:57:GLU:HB3	1.67	1.10
1:S6:27:HIS:O	1:BS:100:ASP:HB2	1.48	1.10
2:n6:11:MET:HG2	1:g7:372:VAL:HG11	1.20	1.10
1:a8:47:GLU:HB3	1:bQ:20:SER:HB2	1.33	1.10
3:AA:197:VAL:HG12	5:DN:40:THR:HG22	1.20	1.10
3:AC:104:GLN:CB	1:KP:359:MET:HE2	1.79	1.10
1:KD:261:ILE:CG2	1:KD:265:ASP:OD1	2.00	1.10
1:LD:47:GLU:CB	1:KK:22:LEU:HD23	1.82	1.10
1:LD:55:PHE:HD1	1:DK:120:LEU:HD11	0.98	1.10
1:LD:261:ILE:HD13	1:LD:265:ASP:OD2	1.51	1.10
2:GE:2:TYR:CE2	1:BP:157:LYS:NZ	2.18	1.10
1:bG:105:GLU:O	1:CK:109:LEU:HD13	1.49	1.10
5:EI:10:TYR:OH	5:EO:66:TYR:HB2	1.50	1.10
1:CK:145:LEU:HD11	2:kR:17:ASP:OD2	1.50	1.10
1:LK:57:LYS:HA	1:KP:58:ILE:HG21	1.32	1.10
1:LK:363:PRO:HG2	2:FP:9:SER:CB	1.80	1.10
1:JL:210:ASN:ND2	1:YR:71:ARG:HH22	1.47	1.10
1:AP:62:LEU:HG	1:KP:88:GLU:HG2	1.17	1.10
2:UR:45:ILE:HG13	2:UR:46:HIS:N	1.55	1.10
1:T1:144:THR:CA	1:CJ:82:ILE:HD13	1.75	1.10
2:U1:1:MET:N	1:CJ:150:ASN:OD1	1.84	1.10
2:Z3:45:ILE:HG13	2:Z3:46:HIS:N	1.55	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:166:LEU:HG	1:Z8:96:PRO:HD2	1.29	1.10
1:g4:96:PRO:HD2	1:YG:166:LEU:HG	1.29	1.10
1:g4:109:LEU:O	1:AD:105:GLU:HB2	1.49	1.10
1:h4:47:GLU:HB3	1:gG:20:SER:HB2	1.33	1.10
1:I6:372:VAL:HG11	2:PL:11:MET:HG2	1.20	1.10
1:g6:208:LEU:CD1	1:g6:391:ILE:HD13	1.79	1.10
1:i6:144:THR:HA	1:BJ:82:ILE:HD13	1.16	1.10
1:A7:210:ASN:ND2	1:gR:71:ARG:HH22	1.47	1.10
1:KD:21:ALA:CB	1:IS:123:ASN:HD21	1.51	1.10
1:SE:166:LEU:HG	1:JQ:96:PRO:HD2	1.29	1.10
1:aE:208:LEU:CD1	1:aE:391:ILE:HD13	1.79	1.10
5:EH:10:TYR:OH	5:EN:66:TYR:HB2	1.50	1.10
5:EI:140:ASP:HB2	5:CI:139:LYS:HB3	1.28	1.10
1:LJ:38:LYS:CG	1:CS:119:LYS:HZ1	1.63	1.10
1:LJ:45:MET:CB	1:JS:14:VAL:CG2	2.27	1.10
1:LJ:57:LYS:CE	1:JS:61:THR:CG2	2.28	1.10
1:LK:25:PHE:HE1	1:DP:126:VAL:HG13	1.11	1.10
1:LK:28:ASP:HB2	1:DP:304:GLN:HE21	1.03	1.10
1:LK:55:PHE:CE2	1:KP:58:ILE:HB	1.71	1.10
1:IL:20:SER:HB2	1:KQ:47:GLU:HB3	1.33	1.10
1:YL:208:LEU:CD1	1:YL:391:ILE:HD13	1.79	1.10
3:AM:112:ILE:CB	2:LS:19:ARG:N	2.07	1.10
1:CQ:364:PHE:HZ	1:cQ:108:MET:HE1	0.96	1.10
1:Y1:210:ASN:ND2	1:I6:71:ARG:HH22	1.47	1.10
1:g1:108:MET:HE1	1:gR:364:PHE:HZ	0.96	1.10
1:C3:208:LEU:CD1	1:C3:391:ILE:HD13	1.79	1.10
1:Q3:20:SER:HB2	1:Z4:47:GLU:HB3	1.33	1.10
1:X4:364:PHE:HZ	1:bE:108:MET:HE1	0.96	1.10
1:Y4:210:ASN:ND2	1:Y8:71:ARG:HH22	1.47	1.10
1:g4:105:GLU:CB	1:BK:109:LEU:CD1	2.29	1.10
2:c6:45:ILE:HG13	2:c6:46:HIS:N	1.55	1.10
5:D9:40:THR:HG22	3:AF:197:VAL:HG12	1.20	1.10
1:AD:145:LEU:HG	3:AF:37:GLU:CD	1.76	1.10
1:KD:104:ASN:O	1:KK:369:PHE:CZ	2.05	1.10
1:KD:369:PHE:CZ	1:JS:104:ASN:O	2.05	1.10
1:LD:57:LYS:CE	1:KK:61:THR:HG23	1.82	1.10
2:ND:55:GLY:C	2:FK:2:TYR:HB2	1.75	1.10
1:FE:144:THR:C	1:CP:82:ILE:HD12	1.76	1.10
2:HE:17:ASP:OD2	1:CP:145:LEU:HD11	1.50	1.10
1:QG:364:PHE:HZ	1:AQ:108:MET:HE1	0.96	1.10
1:BJ:139:ARG:CD	1:gL:81:PHE:CD2	2.31	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:51:ASN:ND2	1:AP:116:MET:HG3	1.65	1.10
1:LJ:28:ASP:HB2	1:CS:304:GLN:HE21	1.03	1.10
1:LJ:47:GLU:CB	1:JS:22:LEU:HD23	1.82	1.10
1:LJ:57:LYS:CE	1:JS:61:THR:HG23	1.82	1.10
5:EM:140:ASP:HB2	5:CM:139:LYS:HB3	1.28	1.10
1:IQ:208:LEU:CD1	1:IQ:391:ILE:HD13	1.79	1.10
1:R1:105:GLU:HB3	1:AS:109:LEU:HD13	1.11	1.10
1:f1:20:SER:HB2	1:B3:47:GLU:HB3	1.33	1.10
1:Q3:372:VAL:HG11	2:f8:11:MET:HG2	1.20	1.10
2:e4:11:MET:HG2	1:bQ:372:VAL:HG11	1.20	1.10
1:f4:71:ARG:HH22	1:ZG:210:ASN:ND2	1.47	1.10
3:A5:116:VAL:HG13	2:MJ:21:ASN:HD21	1.03	1.10
3:A5:208:LYS:HB2	4:BO:251:TRP:HD1	1.02	1.10
4:B5:30:LEU:CB	5:EO:64:TRP:CD2	2.35	1.10
1:g6:38:LYS:HD3	1:LP:222:SER:CA	1.82	1.10
1:B7:143:GLN:C	1:BP:82:ILE:HD11	1.72	1.10
1:I8:20:SER:HB2	1:KR:47:GLU:HB3	1.33	1.10
1:g8:310:THR:CG2	1:DD:27:HIS:HE1	1.63	1.10
1:i8:144:THR:HA	1:BD:82:ILE:HD13	1.16	1.10
3:AA:112:ILE:HG22	2:MK:13:THR:CB	1.81	1.10
2:FD:2:TYR:HB2	2:MS:55:GLY:C	1.75	1.10
2:FD:9:SER:CB	1:KS:363:PRO:HG2	1.80	1.10
1:KD:51:ASN:ND2	1:IS:116:MET:HG3	1.65	1.10
1:LD:55:PHE:CE2	1:KK:58:ILE:HB	1.71	1.10
1:LD:58:ILE:CG2	1:KK:55:PHE:CD2	2.33	1.10
1:bE:261:ILE:HG22	1:cE:260:GLN:OE1	1.48	1.10
1:YG:310:THR:CG2	1:DK:27:HIS:HE1	1.63	1.10
1:gG:208:LEU:CD1	1:gG:391:ILE:HD13	1.79	1.10
5:EH:140:ASP:HB2	5:CH:139:LYS:HB3	1.28	1.10
1:DJ:120:LEU:HD11	1:LP:55:PHE:CD1	1.86	1.10
1:KJ:14:VAL:CG2	1:LP:45:MET:CB	2.27	1.10
1:KJ:14:VAL:CG2	1:LP:45:MET:N	2.07	1.10
1:LJ:45:MET:HG3	1:JS:19:LYS:HE2	1.26	1.10
1:LJ:47:GLU:HB2	1:JS:22:LEU:HD23	1.13	1.10
1:QL:208:LEU:CD1	1:QL:391:ILE:HD13	1.79	1.10
1:Q1:208:LEU:CD1	1:Q1:391:ILE:HD13	1.79	1.09
1:R1:108:MET:HE1	1:CS:364:PHE:HZ	1.08	1.09
1:X1:71:ARG:HH22	1:J6:210:ASN:ND2	1.47	1.09
3:A2:197:VAL:HG12	5:DC:40:THR:HG22	1.20	1.09
1:R3:210:ASN:ND2	1:I8:71:ARG:HH22	1.47	1.09
1:R4:108:MET:HE1	1:DD:364:PHE:HZ	1.08	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U4:17:ASP:OD2	1:BS:145:LEU:HD11	1.50	1.09
1:i4:365:HIS:NE2	2:HD:10:MET:SD	2.24	1.09
1:T6:105:GLU:O	1:BS:109:LEU:HD13	1.49	1.09
1:g6:310:THR:CG2	1:DJ:27:HIS:HE1	1.63	1.09
1:C7:21:ALA:H	1:CK:47:GLU:HG3	1.06	1.09
1:LD:21:ALA:CB	1:DK:123:ASN:HD21	1.54	1.09
1:KE:208:LEU:CD1	1:KE:391:ILE:HD13	1.79	1.09
1:CG:71:ARG:HH22	1:ZL:210:ASN:ND2	1.47	1.09
3:AI:208:LYS:O	4:BM:250:ILE:HD12	1.45	1.09
1:BJ:139:ARG:CD	1:gL:81:PHE:CE2	2.34	1.09
1:KJ:104:ASN:O	1:JS:369:PHE:CZ	2.05	1.09
1:KJ:368:GLU:CD	1:AP:130:LYS:CD	2.25	1.09
1:KJ:369:PHE:CZ	1:KP:104:ASN:O	2.05	1.09
2:NJ:55:GLY:C	2:ES:2:TYR:HB2	1.75	1.09
1:AK:116:MET:HG3	1:KP:51:ASN:ND2	1.65	1.09
1:CK:82:ILE:HD13	1:jR:144:THR:CA	1.75	1.09
3:AM:112:ILE:CD1	2:LS:17:ASP:CG	2.23	1.09
3:AO:81:LEU:HD11	2:LS:55:GLY:HA3	1.22	1.09
1:QQ:208:LEU:CD1	1:QQ:391:ILE:HD13	1.79	1.09
1:YQ:81:PHE:CE2	1:AS:139:ARG:CD	2.34	1.09
1:JS:261:ILE:HG21	1:JS:265:ASP:OD1	1.52	1.09
1:R1:109:LEU:HD13	1:AJ:106:GLU:HA	1.24	1.09
2:d3:11:MET:HG2	1:BD:133:LEU:HB3	1.33	1.09
1:I4:364:PHE:HZ	1:R8:108:MET:HE1	0.96	1.09
1:Q4:364:PHE:HZ	1:ZR:108:MET:HE1	0.96	1.09
1:T4:367:PRO:HG2	1:BS:375:TRP:CE3	1.87	1.09
2:W4:11:MET:HE3	1:DD:372:VAL:CG2	1.83	1.09
1:g4:123:ASN:ND2	1:CD:21:ALA:CB	2.15	1.09
1:I6:364:PHE:HZ	1:JL:108:MET:HE1	0.96	1.09
1:S6:20:SER:CB	1:CS:47:GLU:HB2	1.75	1.09
2:M8:45:ILE:HG13	2:M8:46:HIS:N	1.55	1.09
1:R8:261:ILE:HG22	1:S8:260:GLN:OE1	1.48	1.09
2:c8:45:ILE:HG13	2:c8:46:HIS:N	1.55	1.09
3:A9:81:LEU:HD11	1:AK:153:LEU:HD13	1.19	1.09
3:A9:151:ASN:HA	1:AK:144:THR:HG22	1.28	1.09
1:AD:58:ILE:HD12	3:AF:154:ILE:CG2	1.80	1.09
1:AD:62:LEU:HG	1:KD:88:GLU:HG2	1.17	1.09
1:DD:123:ASN:HD21	1:KS:21:ALA:CB	1.54	1.09
2:eE:45:ILE:HG13	2:eE:46:HIS:N	1.55	1.09
5:EF:140:ASP:HB2	5:CF:139:LYS:HB3	1.28	1.09
1:CK:21:ALA:CB	1:hR:123:ASN:ND2	2.15	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EM:66:TYR:HB2	5:EO:10:TYR:OH	1.50	1.09
3:AO:65:ASN:N	1:IS:146:ALA:HB1	1.67	1.09
1:BP:109:LEU:CD1	1:hR:105:GLU:O	1.94	1.09
1:KP:261:ILE:CG2	1:KP:265:ASP:OD1	1.99	1.09
1:B1:47:GLU:HB3	1:Y8:20:SER:HB2	1.33	1.09
1:T1:144:THR:C	1:CJ:82:ILE:HD12	1.76	1.09
5:D2:28:TYR:HD2	1:AD:369:PHE:CE1	1.67	1.09
1:R4:123:ASN:ND2	1:BS:21:ALA:CB	2.15	1.09
1:Y4:96:PRO:HD2	1:Y8:166:LEU:HG	1.29	1.09
3:A5:65:ASN:CG	1:AJ:149:THR:HG22	1.74	1.09
1:C7:71:ARG:HH22	1:hR:210:ASN:ND2	1.47	1.09
1:Y7:208:LEU:CD1	1:Y7:391:ILE:HD13	1.79	1.09
3:A9:81:LEU:CD1	1:AK:153:LEU:CD1	2.30	1.09
3:A9:197:VAL:HG12	5:DH:40:THR:HG22	1.20	1.09
5:E9:36:ALA:CA	3:AB:194:ASN:OD1	2.01	1.09
3:AA:208:LYS:O	4:BH:250:ILE:HD12	1.45	1.09
3:AB:150:TYR:CZ	1:AD:144:THR:HB	1.79	1.09
1:AD:361:LYS:HE3	1:KK:365:HIS:CD2	1.83	1.09
1:KD:20:SER:HB2	1:KS:47:GLU:HG3	1.28	1.09
1:KD:55:PHE:CD2	1:KS:58:ILE:CG2	2.33	1.09
1:LD:45:MET:N	1:KK:14:VAL:CG2	2.07	1.09
1:BE:105:GLU:CB	1:BJ:109:LEU:CD1	2.29	1.09
4:BF:250:ILE:HD12	3:AO:208:LYS:O	1.45	1.09
3:AI:112:ILE:HD12	2:MJ:6:ASN:CA	1.80	1.09
2:HK:10:MET:SD	1:jR:365:HIS:NE2	2.24	1.09
1:LP:261:ILE:HD13	1:LP:265:ASP:OD2	1.51	1.09
1:BQ:47:GLU:HB3	1:gR:20:SER:HB2	1.33	1.09
1:bQ:208:LEU:CD1	1:bQ:391:ILE:HD13	1.79	1.09
1:J1:261:ILE:HG22	1:K1:260:GLN:OE1	1.48	1.09
2:W1:11:MET:HE3	1:CS:372:VAL:CG2	1.82	1.09
1:J3:108:MET:HE1	1:IG:364:PHE:HZ	0.96	1.09
1:J3:261:ILE:HG22	1:K3:260:GLN:OE1	1.48	1.09
1:Q3:47:GLU:OE2	1:Z4:22:LEU:HD22	1.53	1.09
1:C4:302:ASP:OD2	1:aE:29:TYR:OH	1.71	1.09
1:J4:96:PRO:HD2	1:C8:166:LEU:HG	1.29	1.09
1:S4:47:GLU:HB3	1:IQ:20:SER:HB2	1.33	1.09
1:T4:144:THR:C	1:BS:82:ILE:HD12	1.76	1.09
1:f4:20:SER:HB2	1:B6:47:GLU:HB3	1.33	1.09
1:i4:144:THR:CA	1:CD:82:ILE:HD13	1.75	1.09
1:I6:20:SER:HB2	1:aR:47:GLU:HB3	1.33	1.09
1:Y6:364:PHE:HZ	1:JG:108:MET:HE1	0.96	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k6:45:ILE:HG13	2:k6:46:HIS:N	1.55	1.09
1:Q7:20:SER:HB2	1:aL:47:GLU:HB3	1.33	1.09
1:A8:261:ILE:HG22	1:B8:260:GLN:OE1	1.48	1.09
3:AA:112:ILE:C	2:MK:13:THR:OG1	1.96	1.09
3:AB:117:PRO:HD2	2:MD:19:ARG:HH11	0.99	1.09
1:AD:58:ILE:H	3:AF:154:ILE:HG21	1.11	1.09
1:AD:130:LYS:CD	1:KK:368:GLU:CD	2.25	1.09
1:AD:144:THR:HA	3:AF:36:LEU:HD11	1.28	1.09
1:AD:145:LEU:HD23	3:AF:33:ASN:O	0.91	1.09
1:LD:145:LEU:HD21	1:DK:80:ASP:HB3	1.31	1.09
1:hG:261:ILE:HG22	1:iG:260:GLN:OE1	1.48	1.09
4:BI:30:LEU:CB	5:EM:64:TRP:CD2	2.35	1.09
5:EI:64:TRP:CD2	4:BN:30:LEU:CB	2.35	1.09
1:LJ:47:GLU:OE1	1:JS:22:LEU:N	1.83	1.09
1:LJ:58:ILE:CG2	1:JS:55:PHE:CD2	2.33	1.09
1:CK:150:ASN:OD1	2:kR:1:MET:N	1.84	1.09
1:KK:108:MET:HB2	1:KP:366:ASN:OD1	1.53	1.09
1:LK:57:LYS:CE	1:KP:61:THR:HG23	1.82	1.09
1:AP:60:GLU:CB	1:KP:87:GLU:O	1.99	1.09
1:BP:109:LEU:HD13	1:hR:105:GLU:HB3	1.11	1.09
1:Q1:166:LEU:HG	1:R6:96:PRO:HD2	1.29	1.09
1:T1:365:HIS:NE2	2:HJ:10:MET:HE1	1.58	1.09
4:B2:250:ILE:HD12	3:AF:208:LYS:O	1.45	1.09
1:Q3:302:ASP:OD2	1:CR:29:TYR:OH	1.71	1.09
1:R3:261:ILE:HG22	1:S3:260:GLN:OE1	1.48	1.09
1:S3:47:GLU:HB3	1:CR:20:SER:HB2	1.33	1.09
1:C4:166:LEU:HG	1:RG:96:PRO:HD2	1.29	1.09
1:Q4:208:LEU:CD1	1:Q4:391:ILE:HD13	1.79	1.09
1:R4:96:PRO:HD2	1:g8:166:LEU:HG	1.29	1.09
1:i4:30:SER:HA	1:CD:315:ALA:HB2	1.33	1.09
1:I6:302:ASP:OD2	1:CL:29:TYR:OH	1.71	1.09
1:Q6:21:ALA:H	1:CJ:47:GLU:CG	1.63	1.09
1:S6:144:THR:CA	1:AS:82:ILE:HD13	1.70	1.09
1:C7:208:LEU:CD1	1:C7:391:ILE:HD13	1.79	1.09
1:B7:53:TYR:CD1	1:BP:222:SER:OG	2.06	1.09
1:I7:29:TYR:OH	1:gR:302:ASP:OD2	1.71	1.09
2:U8:45:ILE:HG13	2:U8:46:HIS:N	1.55	1.09
4:BA:30:LEU:CB	5:EH:64:TRP:CD2	2.35	1.09
1:KD:100:ASP:HA	1:KK:25:PHE:HA	1.31	1.09
1:KD:261:ILE:HG21	1:KD:265:ASP:OD1	1.52	1.09
1:LD:25:PHE:HE1	1:DK:126:VAL:HG13	1.11	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:222:SER:CA	1:YG:38:LYS:HD3	1.82	1.09
1:BE:105:GLU:HB3	1:BJ:109:LEU:HD13	1.11	1.09
4:BF:251:TRP:HD1	3:AO:208:LYS:HB2	1.02	1.09
1:AG:96:PRO:HD2	1:YL:166:LEU:HG	1.29	1.09
3:AH:112:ILE:HD12	2:MP:20:LEU:HD22	1.28	1.09
3:AI:112:ILE:CD1	2:MJ:6:ASN:N	2.16	1.09
1:AJ:361:LYS:HE3	1:JS:365:HIS:CD2	1.83	1.09
1:DJ:82:ILE:HG12	1:LP:143:GLN:HA	1.14	1.09
2:NJ:55:GLY:C	2:ES:2:TYR:CB	2.26	1.09
1:AK:130:LYS:CD	1:KP:368:GLU:CD	2.25	1.09
1:CK:54:LEU:CD2	1:hR:116:MET:HE2	1.82	1.09
1:KK:104:ASN:O	1:KP:369:PHE:CZ	2.05	1.09
1:KK:261:ILE:CG2	1:KK:265:ASP:OD1	2.00	1.09
1:LK:55:PHE:CD1	1:DP:120:LEU:HD11	1.86	1.09
1:LK:109:LEU:HD21	1:iR:105:GLU:O	1.49	1.09
1:QL:166:LEU:HG	1:RR:96:PRO:HD2	1.29	1.09
3:AO:29:ARG:HG3	1:IS:136:ASN:HB3	1.12	1.09
1:BP:109:LEU:CD1	1:hR:105:GLU:CB	2.29	1.09
1:cQ:261:ILE:HG22	1:dQ:260:GLN:OE1	1.48	1.09
1:I1:166:LEU:HG	1:JG:96:PRO:HD2	1.29	1.08
1:X1:208:LEU:CD1	1:X1:391:ILE:HD13	1.79	1.08
1:Y1:103:LYS:HE3	1:I6:304:GLN:HB3	1.36	1.08
4:B2:30:LEU:CB	5:EA:64:TRP:CD2	2.35	1.08
5:N2:230:SER:HA	5:CB:266:THR:HB	1.09	1.08
1:C3:20:SER:HB2	1:SG:47:GLU:HB3	1.33	1.08
1:Y3:81:PHE:CE2	1:BK:139:ARG:CD	2.34	1.08
1:J4:108:MET:HE1	1:AE:364:PHE:HZ	0.96	1.08
1:R4:109:LEU:O	1:IS:105:GLU:HB3	1.36	1.08
1:T4:365:HIS:NE2	2:GS:10:MET:HE1	1.58	1.08
1:f4:166:LEU:HG	1:ZG:96:PRO:HD2	1.29	1.08
5:E5:57:GLU:HB3	4:BH:33:TYR:CE1	1.67	1.08
1:C6:208:LEU:CD1	1:C6:391:ILE:HD13	1.79	1.08
1:S6:31:LYS:HA	1:AS:314:GLY:O	1.53	1.08
1:g6:29:TYR:HD2	1:LP:317:PHE:CE1	1.61	1.08
1:B7:31:LYS:HA	1:BP:314:GLY:O	1.53	1.08
1:K7:22:LEU:HD22	1:CQ:47:GLU:OE2	1.53	1.08
1:a7:22:LEU:HD22	1:KE:47:GLU:OE2	1.53	1.08
1:J8:261:ILE:HG22	1:K8:260:GLN:OE1	1.48	1.08
4:B9:30:LEU:CB	5:EC:64:TRP:CD2	2.35	1.08
5:E9:64:TRP:CD2	4:BB:30:LEU:CB	2.35	1.08
5:CA:275:ASN:ND2	5:OC:371:PRO:HB3	1.69	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EB:64:TRP:CD2	4:BM:30:LEU:CB	2.35	1.08
5:OB:371:PRO:HB3	5:CF:275:ASN:ND2	1.69	1.08
3:AC:194:ASN:OD1	5:EN:36:ALA:CA	2.01	1.08
4:BC:33:TYR:OH	5:EN:57:GLU:CA	2.02	1.08
1:DD:120:LEU:HD11	1:KS:55:PHE:CD1	1.86	1.08
1:KD:45:MET:HB3	1:KS:14:VAL:O	1.30	1.08
1:KD:365:HIS:CD2	1:IS:361:LYS:HE3	1.83	1.08
2:ND:55:GLY:C	2:FK:2:TYR:CB	2.26	1.08
2:JE:11:MET:HE3	1:DJ:372:VAL:CG2	1.83	1.08
2:UG:45:ILE:HG13	2:UG:46:HIS:N	1.55	1.08
1:LJ:58:ILE:HG23	1:JS:55:PHE:HE2	1.16	1.08
2:MJ:11:MET:HE1	1:JS:372:VAL:N	1.68	1.08
1:AK:361:LYS:HE2	1:KP:365:HIS:HD2	1.00	1.08
1:BL:22:LEU:HD22	1:YR:47:GLU:OE2	1.53	1.08
5:EM:66:TYR:HA	5:EO:10:TYR:OH	1.48	1.08
1:IR:208:LEU:CD1	1:IR:391:ILE:HD13	1.79	1.08
1:JS:261:ILE:CG2	1:JS:265:ASP:OD1	2.00	1.08
1:C1:208:LEU:CD1	1:C1:391:ILE:HD13	1.79	1.08
1:C1:302:ASP:OD2	1:Y8:29:TYR:OH	1.71	1.08
1:R1:105:GLU:O	1:AS:109:LEU:CD1	1.94	1.08
1:R1:123:ASN:ND2	1:CJ:21:ALA:CB	2.15	1.08
1:g1:103:LYS:HE3	1:CQ:304:GLN:HB3	1.36	1.08
5:E2:64:TRP:CD2	4:BF:30:LEU:CB	2.35	1.08
1:I3:166:LEU:HG	1:R8:96:PRO:HD2	1.29	1.08
1:I3:364:PHE:HZ	1:RR:108:MET:HE1	0.96	1.08
1:Q3:304:GLN:HB3	1:J8:103:LYS:HE3	1.36	1.08
1:Q4:372:VAL:HG11	2:fR:11:MET:HG2	1.20	1.08
1:i4:38:LYS:HD3	1:CD:220:ARG:O	1.49	1.08
3:A5:155:GLU:HG2	1:AJ:139:ARG:HB3	1.35	1.08
5:E5:36:ALA:CA	3:AH:194:ASN:OD1	2.01	1.08
1:R6:108:MET:HE1	1:Q8:364:PHE:HZ	0.96	1.08
1:S6:143:GLN:C	1:AS:82:ILE:HD11	1.72	1.08
1:C7:21:ALA:H	1:CK:47:GLU:CG	1.63	1.08
1:C7:38:LYS:HD3	1:LK:222:SER:CA	1.82	1.08
1:A7:103:LYS:HE3	1:gR:304:GLN:HB3	1.36	1.08
1:g8:38:LYS:HD3	1:KS:222:SER:CA	1.82	1.08
5:CC:275:ASN:ND2	5:OH:371:PRO:HB3	1.69	1.08
1:AD:304:GLN:HE22	1:KK:28:ASP:HB3	1.01	1.08
1:DD:80:ASP:HB3	1:KS:145:LEU:HD21	1.31	1.08
1:CE:105:GLU:HB3	1:LP:109:LEU:HD23	1.32	1.08
1:LE:261:ILE:HG22	1:ME:260:GLN:OE1	1.48	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aE:166:LEU:HG	1:AR:96:PRO:HD2	1.29	1.08
1:CG:208:LEU:CD1	1:CG:391:ILE:HD13	1.79	1.08
5:CI:275:ASN:ND2	5:OO:371:PRO:HB3	1.69	1.08
1:AJ:60:GLU:CB	1:KJ:87:GLU:O	1.99	1.08
1:KJ:61:THR:HG23	1:LP:57:LYS:CE	1.82	1.08
1:KJ:108:MET:HB2	1:JS:366:ASN:OD1	1.53	1.08
1:KJ:261:ILE:CG2	1:KJ:265:ASP:OD1	2.00	1.08
1:LJ:21:ALA:CB	1:CS:123:ASN:HD21	1.54	1.08
1:JL:103:LYS:HE3	1:YR:304:GLN:HB3	1.36	1.08
1:YL:29:TYR:OH	1:QR:302:ASP:OD2	1.71	1.08
1:ZL:261:ILE:HG22	1:aL:260:GLN:OE1	1.48	1.08
1:DP:372:VAL:CG2	2:mR:11:MET:HE3	1.83	1.08
2:ZQ:45:ILE:HG13	2:ZQ:46:HIS:N	1.55	1.08
3:A2:194:ASN:OD1	5:EA:36:ALA:CA	2.01	1.08
1:C3:29:TYR:OH	1:QG:302:ASP:OD2	1.71	1.08
1:J3:96:PRO:HD2	1:Q8:166:LEU:HG	1.29	1.08
1:C4:364:PHE:HZ	1:ZL:108:MET:HE1	0.96	1.08
1:Q4:302:ASP:OD2	1:IQ:29:TYR:OH	1.71	1.08
1:R4:105:GLU:HB3	1:BD:109:LEU:HD13	1.11	1.08
1:X4:208:LEU:CD1	1:X4:391:ILE:HD13	1.79	1.08
1:h4:105:GLU:HB3	1:LD:109:LEU:HD23	1.33	1.08
1:i4:144:THR:C	1:CD:82:ILE:HD12	1.76	1.08
2:l4:11:MET:HE3	1:DK:372:VAL:CG2	1.83	1.08
4:B5:33:TYR:OH	5:EO:57:GLU:CA	2.01	1.08
1:J6:108:MET:HE1	1:IR:364:PHE:HZ	0.96	1.08
1:K7:47:GLU:HB3	1:CQ:20:SER:HB2	1.33	1.08
1:Q7:302:ASP:OD2	1:QR:29:TYR:OH	1.71	1.08
1:Q7:304:GLN:HB3	1:RQ:103:LYS:HE3	1.36	1.08
1:Y7:20:SER:HB2	1:SQ:47:GLU:HB3	1.33	1.08
1:Y7:29:TYR:OH	1:QQ:302:ASP:OD2	1.71	1.08
1:Y7:304:GLN:HB3	1:JR:103:LYS:HE3	1.36	1.08
3:A9:208:LYS:HB2	4:BC:251:TRP:HD1	1.02	1.08
4:BA:33:TYR:OH	5:EH:57:GLU:CA	2.01	1.08
5:EB:36:ALA:CA	3:AM:194:ASN:OD1	2.01	1.08
4:BC:30:LEU:CB	5:EN:64:TRP:CD2	2.35	1.08
5:EC:10:TYR:OH	5:EH:66:TYR:HA	1.48	1.08
1:AD:140:PHE:CA	3:AF:29:ARG:HD3	1.68	1.08
1:AD:144:THR:HG22	3:AF:36:LEU:CD1	1.84	1.08
1:CD:47:GLU:CG	1:YG:21:ALA:H	1.63	1.08
2:FD:2:TYR:CB	2:MS:55:GLY:C	2.26	1.08
1:KD:22:LEU:HD23	1:KS:47:GLU:CB	1.82	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:61:THR:HG23	1:KS:57:LYS:CE	1.82	1.08
1:KD:61:THR:HG23	1:KS:57:LYS:HE3	1.34	1.08
1:KD:108:MET:HB2	1:KK:366:ASN:OD1	1.53	1.08
1:KD:368:GLU:CD	1:IS:130:LYS:CD	2.25	1.08
1:LD:21:ALA:HB1	1:DK:123:ASN:ND2	1.65	1.08
1:LD:22:LEU:HD22	1:KK:47:GLU:OE1	1.53	1.08
2:OE:45:ILE:HG13	2:OE:46:HIS:N	1.55	1.08
1:QG:208:LEU:CD1	1:QG:391:ILE:HD13	1.79	1.08
3:AH:112:ILE:HD11	2:MP:23:ARG:HH11	1.16	1.08
4:BI:33:TYR:OH	5:EM:57:GLU:CA	2.01	1.08
1:KJ:55:PHE:HE2	1:LP:58:ILE:HG23	1.16	1.08
1:KJ:58:ILE:HG21	1:LP:57:LYS:HA	1.32	1.08
1:KJ:365:HIS:HD2	1:AP:361:LYS:HE2	1.00	1.08
1:LJ:22:LEU:HD22	1:JS:47:GLU:OE1	1.53	1.08
1:LJ:57:LYS:HA	1:JS:58:ILE:HG21	1.32	1.08
1:IL:29:TYR:OH	1:IQ:302:ASP:OD2	1.71	1.08
1:C1:53:TYR:O	1:bQ:118:THR:CG2	2.02	1.08
1:A1:108:MET:HE1	1:f4:364:PHE:HZ	0.96	1.08
1:I1:29:TYR:OH	1:SE:302:ASP:OD2	1.71	1.08
1:I1:47:GLU:OE2	1:UE:22:LEU:HD22	1.53	1.08
1:R1:261:ILE:HG22	1:S1:260:GLN:OE1	1.48	1.08
1:T1:367:PRO:HG2	1:CJ:375:TRP:CE3	1.87	1.08
1:T1:374:HIS:NE2	2:HJ:8:ARG:NH1	2.02	1.08
1:X1:302:ASP:OD2	1:IR:29:TYR:OH	1.71	1.08
1:f1:29:TYR:OH	1:C3:302:ASP:OD2	1.71	1.08
1:f1:47:GLU:OE2	1:B3:22:LEU:HD22	1.53	1.08
2:M3:45:ILE:HG13	2:M3:46:HIS:N	1.55	1.08
1:Q3:53:TYR:O	1:X4:118:THR:CG2	2.02	1.08
1:S3:22:LEU:HD22	1:CR:47:GLU:OE2	1.53	1.08
1:b3:81:PHE:CE2	1:BD:139:ARG:CD	2.34	1.08
1:R4:105:GLU:CB	1:BD:109:LEU:CD1	2.29	1.08
1:T4:144:THR:CA	1:BS:82:ILE:HD13	1.75	1.08
1:f4:29:TYR:OH	1:C6:302:ASP:OD2	1.71	1.08
1:f4:118:THR:CG2	1:gG:53:TYR:O	2.02	1.08
1:f4:208:LEU:CD1	1:f4:391:ILE:HD13	1.79	1.08
5:O5:371:PRO:HB3	5:CN:275:ASN:ND2	1.69	1.08
1:C6:53:TYR:O	1:gG:118:THR:CG2	2.02	1.08
1:I6:118:THR:CG2	1:CL:53:TYR:O	2.02	1.08
1:Q6:38:LYS:HD3	1:LJ:222:SER:CA	1.82	1.08
1:Y6:118:THR:CG2	1:SE:53:TYR:O	2.02	1.08
1:I7:53:TYR:O	1:gR:118:THR:CG2	2.02	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q7:29:TYR:OH	1:YL:302:ASP:OD2	1.71	1.08
1:g7:53:TYR:O	1:AE:118:THR:CG2	2.02	1.08
1:B8:47:GLU:HB3	1:AE:20:SER:HB2	1.33	1.08
1:Y8:118:THR:CG2	1:bQ:53:TYR:O	2.02	1.08
1:Y8:208:LEU:CD1	1:Y8:391:ILE:HD13	1.79	1.08
1:Y8:302:ASP:OD2	1:bQ:29:TYR:OH	1.71	1.08
3:A9:194:ASN:OD1	5:EC:36:ALA:CA	2.01	1.08
5:E9:57:GLU:CA	4:BB:33:TYR:OH	2.01	1.08
5:EC:140:ASP:HB2	5:CC:139:LYS:HB3	1.28	1.08
2:FD:2:TYR:CB	2:MS:55:GLY:CA	2.30	1.08
2:MD:15:TYR:HB2	1:KK:149:THR:HG22	1.17	1.08
1:FE:365:HIS:NE2	2:HP:10:MET:HE1	1.58	1.08
1:FE:367:PRO:HG2	1:CP:375:TRP:CE3	1.87	1.08
1:FE:374:HIS:NE2	2:HP:8:ARG:NH1	2.02	1.08
1:KE:302:ASP:OD2	1:QQ:29:TYR:OH	1.71	1.08
1:IG:208:LEU:CD1	1:IG:391:ILE:HD13	1.79	1.08
5:EI:36:ALA:CA	3:AN:194:ASN:OD1	2.01	1.08
1:AJ:130:LYS:CD	1:JS:368:GLU:CD	2.25	1.08
1:KJ:28:ASP:OD2	1:AP:305:SER:CB	2.02	1.08
2:NJ:55:GLY:CA	2:ES:2:TYR:CB	2.30	1.08
1:KK:261:ILE:HG21	1:KK:265:ASP:OD1	1.52	1.08
1:LK:109:LEU:HD23	1:iR:105:GLU:HB3	1.32	1.08
1:IL:47:GLU:OE2	1:KQ:22:LEU:HD22	1.53	1.08
1:JL:96:PRO:HD2	1:YR:166:LEU:HG	1.29	1.08
1:RL:261:ILE:HG22	1:SL:260:GLN:OE1	1.48	1.08
1:YL:20:SER:HB2	1:SR:47:GLU:HB3	1.33	1.08
1:YL:137:ASP:OD2	1:SR:49:PHE:HB3	1.54	1.08
3:AM:114:PHE:CE2	2:LS:9:SER:C	2.31	1.08
1:I1:302:ASP:OD2	1:Y6:29:TYR:OH	1.71	1.08
1:K1:22:LEU:HD22	1:Y6:47:GLU:OE2	1.53	1.08
1:S1:49:PHE:HB3	1:Q8:137:ASP:OD2	1.54	1.08
1:X1:47:GLU:OE2	1:K8:22:LEU:HD22	1.53	1.08
5:E2:10:TYR:OH	5:E9:66:TYR:HB2	1.50	1.08
1:I3:137:ASP:OD2	1:SL:49:PHE:HB3	1.54	1.08
1:S3:49:PHE:HB3	1:CR:137:ASP:OD2	1.54	1.08
1:C4:53:TYR:O	1:CG:118:THR:CG2	2.02	1.08
1:B4:22:LEU:HD22	1:aE:47:GLU:OE2	1.53	1.08
1:X4:29:TYR:OH	1:CR:302:ASP:OD2	1.71	1.08
1:X4:137:ASP:OD2	1:BR:49:PHE:HB3	1.54	1.08
1:Y4:103:LYS:HE3	1:Y8:304:GLN:HB3	1.36	1.08
1:f4:302:ASP:OD2	1:gG:29:TYR:OH	1.71	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g4:223:GLY:CA	1:CD:53:TYR:CZ	2.37	1.08
1:h4:49:PHE:HB3	1:gG:137:ASP:OD2	1.54	1.08
1:i4:367:PRO:HG2	1:CD:375:TRP:CE3	1.87	1.08
3:A5:197:VAL:HG12	5:DM:40:THR:HG22	1.20	1.08
1:C6:137:ASP:OD2	1:iG:49:PHE:HB3	1.54	1.08
1:C6:364:PHE:HZ	1:AL:108:MET:HE1	0.96	1.08
1:A6:108:MET:HE1	1:Y8:364:PHE:HZ	0.96	1.08
1:Q7:118:THR:CG2	1:QR:53:TYR:O	2.02	1.08
1:Y7:118:THR:CG2	1:KE:53:TYR:O	2.02	1.08
1:i7:22:LEU:HD22	1:C8:47:GLU:OE2	1.53	1.08
1:B8:22:LEU:HD22	1:AE:47:GLU:OE2	1.53	1.08
4:B9:33:TYR:OH	5:EC:57:GLU:CA	2.01	1.08
3:AA:112:ILE:CB	2:MK:13:THR:OG1	2.02	1.08
3:AB:117:PRO:HD2	2:MD:19:ARG:NH1	1.66	1.08
4:BC:33:TYR:CE1	5:EN:57:GLU:HB3	1.67	1.08
1:FE:144:THR:CA	1:CP:82:ILE:HD13	1.75	1.08
1:aE:302:ASP:OD2	1:CG:29:TYR:OH	1.71	1.08
5:EF:57:GLU:HB3	4:BO:33:TYR:CE1	1.67	1.08
5:EF:64:TRP:CD2	4:BO:30:LEU:CB	2.35	1.08
3:AH:111:ASP:HA	2:MP:19:ARG:HH22	0.98	1.08
5:EI:57:GLU:CA	4:BN:33:TYR:OH	2.01	1.08
1:DJ:84:GLN:HG3	1:LP:140:PHE:C	1.72	1.08
2:FJ:2:TYR:CB	2:NP:55:GLY:C	2.26	1.08
1:LJ:261:ILE:HD13	1:LJ:265:ASP:OD2	1.51	1.08
1:CK:315:ALA:HB2	1:jR:30:SER:HA	1.32	1.08
2:MK:11:MET:HE1	1:KP:372:VAL:N	1.68	1.08
2:MK:11:MET:HE3	1:KP:372:VAL:CG2	1.40	1.08
1:YL:53:TYR:O	1:QR:118:THR:CG2	2.02	1.08
5:DM:30:PRO:HB3	1:IS:140:PHE:CD2	1.79	1.08
3:AO:33:ASN:HB3	1:IS:135:ASN:OD1	1.46	1.08
1:RQ:108:MET:HE1	1:QR:364:PHE:HZ	0.96	1.08
1:KS:261:ILE:HD13	1:KS:265:ASP:OD2	1.51	1.08
1:C1:118:THR:CG2	1:Y8:53:TYR:O	2.02	1.07
1:C1:137:ASP:OD2	1:dQ:49:PHE:HB3	1.54	1.07
1:R1:223:GLY:CA	1:CJ:53:TYR:CZ	2.37	1.07
1:X1:53:TYR:O	1:I8:118:THR:CG2	2.02	1.07
1:X1:137:ASP:OD2	1:K8:49:PHE:HB3	1.54	1.07
1:Z1:22:LEU:HD22	1:IR:47:GLU:OE2	1.53	1.07
1:Z1:47:GLU:HB3	1:IR:20:SER:HB2	1.33	1.07
1:f1:208:LEU:CD1	1:f1:391:ILE:HD13	1.79	1.07
1:f1:364:PHE:HZ	1:h7:108:MET:HE1	0.96	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g1:96:PRO:HD2	1:CQ:166:LEU:HG	1.29	1.07
3:A2:114:PHE:HD1	2:GK:25:GLU:OE1	1.35	1.07
5:E2:57:GLU:CA	4:BF:33:TYR:OH	2.01	1.07
5:E2:66:TYR:HA	5:EB:10:TYR:OH	1.48	1.07
1:I3:118:THR:CG2	1:I4:53:TYR:O	2.02	1.07
2:a3:11:MET:HG2	1:BK:133:LEU:HB3	1.33	1.07
1:I4:208:LEU:CD1	1:I4:391:ILE:HD13	1.79	1.07
1:Q4:166:LEU:HG	1:h8:96:PRO:HD2	1.29	1.07
1:f4:53:TYR:O	1:C6:118:THR:CG2	2.02	1.07
3:A5:115:ILE:C	2:MJ:21:ASN:OD1	1.97	1.07
5:E5:64:TRP:CD2	4:BH:30:LEU:CB	2.35	1.07
1:I6:47:GLU:OE2	1:aR:22:LEU:HD22	1.53	1.07
1:Y6:208:LEU:CD1	1:Y6:391:ILE:HD13	1.79	1.07
1:a6:49:PHE:HB3	1:SE:137:ASP:OD2	1.54	1.07
1:h6:261:ILE:HG22	1:i6:260:GLN:OE1	1.48	1.07
1:S7:22:LEU:HD22	1:QR:47:GLU:OE2	1.53	1.07
1:Y7:137:ASP:OD2	1:SQ:49:PHE:HB3	1.54	1.07
1:g7:137:ASP:OD2	1:CE:49:PHE:HB3	1.54	1.07
1:g7:302:ASP:OD2	1:C8:29:TYR:OH	1.71	1.07
1:C8:302:ASP:OD2	1:AE:29:TYR:OH	1.71	1.07
1:I8:208:LEU:CD1	1:I8:391:ILE:HD13	1.79	1.07
1:Q8:118:THR:CG2	1:IG:53:TYR:O	2.02	1.07
1:a8:49:PHE:HB3	1:bQ:137:ASP:OD2	1.54	1.07
5:C9:266:THR:HB	5:NA:230:SER:HA	1.09	1.07
1:AD:54:LEU:HA	3:AM:29:ARG:NH1	1.69	1.07
1:AD:58:ILE:H	3:AF:154:ILE:CG2	1.67	1.07
1:KD:28:ASP:OD2	1:IS:305:SER:CB	2.02	1.07
1:aE:304:GLN:HB3	1:AR:103:LYS:HE3	1.36	1.07
1:cE:49:PHE:HB3	1:CG:137:ASP:OD2	1.54	1.07
1:CG:372:VAL:HG11	2:HR:11:MET:HG2	1.20	1.07
2:EG:45:ILE:HG13	2:EG:46:HIS:N	1.55	1.07
1:QG:372:VAL:HG11	2:HQ:11:MET:HG2	1.20	1.07
1:YG:208:LEU:CD1	1:YG:391:ILE:HD13	1.79	1.07
1:KJ:100:ASP:HA	1:JS:25:PHE:HA	1.31	1.07
1:CK:150:ASN:CG	2:kR:1:MET:H3	1.58	1.07
1:LK:140:PHE:C	1:DP:84:GLN:HG3	1.72	1.07
2:MK:15:TYR:HB2	1:KP:149:THR:HG22	1.17	1.07
1:BL:47:GLU:HB3	1:YR:20:SER:HB2	1.33	1.07
2:cL:45:ILE:HG13	2:cL:46:HIS:N	1.55	1.07
3:AM:116:VAL:HB	2:LS:7:MET:HE1	1.31	1.07
1:C1:364:PHE:HZ	1:J7:108:MET:HE1	0.96	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K1:47:GLU:HB3	1:Y6:20:SER:HB2	1.33	1.07
1:Q1:47:GLU:OE2	1:KG:22:LEU:HD22	1.53	1.07
1:Q1:302:ASP:OD2	1:Q8:29:TYR:OH	1.71	1.07
1:X1:20:SER:HB2	1:K8:47:GLU:HB3	1.33	1.07
1:h1:49:PHE:HB3	1:QG:137:ASP:OD2	1.54	1.07
4:B2:33:TYR:OH	5:EA:57:GLU:CA	2.02	1.07
5:E2:140:ASP:HB2	5:C2:139:LYS:HB3	1.28	1.07
5:F2:55:LEU:HD12	4:BF:32:PHE:CG	1.90	1.07
1:I3:29:TYR:OH	1:QL:302:ASP:OD2	1.71	1.07
1:C4:118:THR:CG2	1:aE:53:TYR:O	2.02	1.07
1:I4:166:LEU:HG	1:A8:96:PRO:HD2	1.29	1.07
1:f4:304:GLN:HB3	1:ZG:103:LYS:HE3	1.36	1.07
2:j4:17:ASP:OD2	1:CD:145:LEU:HD11	1.50	1.07
4:B5:32:PHE:CG	5:FO:55:LEU:HD12	1.89	1.07
5:E5:57:GLU:CA	4:BH:33:TYR:OH	2.01	1.07
5:E5:66:TYR:HA	5:EN:10:TYR:OH	1.48	1.07
1:B7:20:SER:OG	1:DP:47:GLU:HB2	1.40	1.07
2:X7:11:MET:HG2	1:Y7:372:VAL:HG11	1.20	1.07
1:Z7:108:MET:HE1	1:I8:364:PHE:HZ	0.96	1.07
3:AB:115:ILE:O	2:MD:19:ARG:CG	1.85	1.07
5:EB:57:GLU:CA	4:BM:33:TYR:OH	2.02	1.07
1:DD:123:ASN:ND2	1:KS:21:ALA:HB1	1.65	1.07
2:FD:2:TYR:CD2	1:KS:153:LEU:HD11	1.89	1.07
1:KD:49:PHE:HB2	1:KS:22:LEU:CD1	1.84	1.07
1:BE:109:LEU:O	1:AP:105:GLU:HB3	1.36	1.07
1:BE:123:ASN:ND2	1:CP:21:ALA:CB	2.15	1.07
5:EF:66:TYR:HA	5:EM:10:TYR:OH	1.49	1.07
5:CH:275:ASN:ND2	5:ON:371:PRO:HB3	1.69	1.07
3:AI:194:ASN:OD1	5:EM:36:ALA:CA	2.01	1.07
1:KJ:58:ILE:HB	1:LP:55:PHE:CE2	1.71	1.07
1:LK:261:ILE:HD13	1:LK:265:ASP:OD2	1.51	1.07
1:YL:47:GLU:OE2	1:SR:22:LEU:HD22	1.53	1.07
5:OM:371:PRO:HB3	5:CO:275:ASN:ND2	1.69	1.07
3:AO:154:ILE:HA	1:IS:145:LEU:HD23	1.13	1.07
1:AP:62:LEU:CB	1:KP:88:GLU:HB3	1.67	1.07
1:BQ:22:LEU:HD22	1:gR:47:GLU:OE2	1.53	1.07
1:I1:208:LEU:CD1	1:I1:391:ILE:HD13	1.79	1.07
1:Q1:29:TYR:OH	1:IG:302:ASP:OD2	1.71	1.07
1:X1:29:TYR:OH	1:I8:302:ASP:OD2	1.71	1.07
1:Z1:49:PHE:HB3	1:IR:137:ASP:OD2	1.54	1.07
4:B2:33:TYR:OH	5:EA:57:GLU:HB3	1.52	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E2:57:GLU:HB3	4:BF:33:TYR:CZ	1.73	1.07
5:C2:275:ASN:ND2	5:O9:371:PRO:HB3	1.69	1.07
1:C3:137:ASP:OD2	1:SG:49:PHE:HB3	1.54	1.07
1:I3:47:GLU:OE2	1:SL:22:LEU:HD22	1.53	1.07
1:K3:22:LEU:HD22	1:I4:47:GLU:OE2	1.53	1.07
1:Q3:29:TYR:OH	1:X4:302:ASP:OD2	1.71	1.07
1:C4:29:TYR:OH	1:CG:302:ASP:OD2	1.71	1.07
1:A4:96:PRO:HD2	1:QG:166:LEU:HG	1.29	1.07
1:J4:261:ILE:HG22	1:K4:260:GLN:OE1	1.48	1.07
1:Q4:137:ASP:OD2	1:KL:49:PHE:HB3	1.54	1.07
1:R4:221:ALA:CA	1:BS:38:LYS:CD	2.05	1.07
1:K6:22:LEU:HD22	1:CL:47:GLU:OE2	1.53	1.07
1:C7:367:PRO:HG2	1:LK:375:TRP:CZ3	1.74	1.07
1:I7:47:GLU:OE2	1:iR:22:LEU:HD22	1.53	1.07
1:Q7:53:TYR:O	1:YL:118:THR:CG2	2.02	1.07
1:Q7:364:PHE:HZ	1:AG:108:MET:HE1	0.96	1.07
1:Y7:53:TYR:O	1:QQ:118:THR:CG2	2.02	1.07
1:C8:208:LEU:CD1	1:C8:391:ILE:HD13	1.79	1.07
1:S8:22:LEU:HD22	1:IG:47:GLU:OE2	1.53	1.07
1:g8:14:VAL:CB	1:BS:45:MET:CE	1.81	1.07
1:g8:29:TYR:HD2	1:KS:317:PHE:CE1	1.61	1.07
5:C9:275:ASN:ND2	5:OA:371:PRO:HB3	1.69	1.07
3:AA:114:PHE:CB	2:MK:8:ARG:C	2.28	1.07
3:AA:194:ASN:OD1	5:EH:36:ALA:CA	2.01	1.07
1:AD:305:SER:CB	1:KK:28:ASP:OD2	2.02	1.07
1:KD:372:VAL:N	2:LS:11:MET:HE1	1.68	1.07
1:LD:31:LYS:CG	1:DK:314:GLY:O	2.03	1.07
1:LD:153:LEU:HD11	2:FK:2:TYR:CD2	1.89	1.07
5:EF:36:ALA:CA	3:AO:194:ASN:OD1	2.01	1.07
1:JG:261:ILE:HG22	1:KG:260:GLN:OE1	1.48	1.07
1:KJ:20:SER:HB2	1:LP:47:GLU:HG3	1.28	1.07
1:LJ:21:ALA:HB1	1:CS:123:ASN:ND2	1.65	1.07
1:AK:305:SER:CB	1:KP:28:ASP:OD2	2.02	1.07
1:CK:82:ILE:HD12	1:jR:144:THR:C	1.76	1.07
1:LK:22:LEU:CD1	1:KP:49:PHE:HB2	1.84	1.07
1:LK:153:LEU:HD11	2:FP:2:TYR:CD2	1.88	1.07
2:NK:55:GLY:C	2:FP:2:TYR:CB	2.26	1.07
1:CL:208:LEU:CD1	1:CL:391:ILE:HD13	1.79	1.07
1:BL:49:PHE:HB3	1:YR:137:ASP:OD2	1.54	1.07
5:DM:30:PRO:CB	1:IS:140:PHE:CE2	2.32	1.07
3:AO:64:GLN:CG	1:IS:150:ASN:N	2.18	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J1:96:PRO:HD2	1:IG:166:LEU:HG	1.29	1.07
1:S1:22:LEU:HD22	1:Q8:47:GLU:OE2	1.53	1.07
1:T1:30:SER:HA	1:CJ:315:ALA:HB2	1.33	1.07
5:E2:36:ALA:CA	3:AF:194:ASN:OD1	2.01	1.07
1:R3:103:LYS:HE3	1:I8:304:GLN:HB3	1.36	1.07
1:K4:22:LEU:HD22	1:QL:47:GLU:OE2	1.53	1.07
1:S4:49:PHE:HB3	1:IQ:137:ASP:OD2	1.54	1.07
1:X4:53:TYR:O	1:CR:118:THR:CG2	2.02	1.07
3:A5:194:ASN:OD1	5:EO:36:ALA:CA	2.01	1.07
1:I6:29:TYR:OH	1:YR:302:ASP:OD2	1.71	1.07
1:I6:53:TYR:O	1:YR:118:THR:CG2	2.02	1.07
1:S6:367:PRO:CG	1:AS:375:TRP:CZ3	2.37	1.07
1:i6:144:THR:CA	1:BJ:82:ILE:HD13	1.70	1.07
1:B7:144:THR:C	1:BP:82:ILE:HD12	1.80	1.07
1:I8:29:TYR:OH	1:IR:302:ASP:OD2	1.71	1.07
1:Q8:208:LEU:CD1	1:Q8:391:ILE:HD13	1.79	1.07
1:Q8:302:ASP:OD2	1:IG:29:TYR:OH	1.71	1.07
4:B9:32:PHE:CG	5:FC:55:LEU:HD12	1.90	1.07
4:BA:32:PHE:CG	5:FH:55:LEU:HD12	1.90	1.07
1:LD:143:GLN:HA	1:DK:82:ILE:HG12	1.15	1.07
1:AE:208:LEU:CD1	1:AE:391:ILE:HD13	1.79	1.07
1:ME:22:LEU:HD22	1:QQ:47:GLU:OE2	1.53	1.07
1:TE:108:MET:HE1	1:IL:364:PHE:HZ	0.96	1.07
1:aE:364:PHE:HZ	1:RG:108:MET:HE1	0.96	1.07
5:EF:57:GLU:CA	4:BO:33:TYR:OH	2.01	1.07
4:BI:33:TYR:CZ	5:EM:57:GLU:HB3	1.73	1.07
1:DJ:126:VAL:HG13	1:LP:25:PHE:HE1	1.11	1.07
1:LJ:25:PHE:CZ	1:CS:126:VAL:CG1	2.34	1.07
1:LJ:33:TRP:CH2	1:CS:173:ALA:HB3	1.84	1.07
1:CK:375:TRP:CE3	1:jR:367:PRO:HG2	1.87	1.07
1:IL:208:LEU:CD1	1:IL:391:ILE:HD13	1.79	1.07
2:UQ:45:ILE:HG13	2:UQ:46:HIS:N	1.55	1.07
1:B1:22:LEU:HD22	1:Y8:47:GLU:OE2	1.53	1.07
1:I1:364:PHE:HZ	1:JQ:108:MET:HE1	0.96	1.07
1:Q1:118:THR:CG2	1:Q8:53:TYR:O	2.02	1.07
1:R1:118:THR:HG21	1:CJ:53:TYR:O	1.55	1.07
1:f1:118:THR:CG2	1:QG:53:TYR:O	2.02	1.07
1:I3:208:LEU:CD1	1:I3:391:ILE:HD13	1.79	1.07
1:I3:302:ASP:OD2	1:I4:29:TYR:OH	1.71	1.07
1:I4:302:ASP:OD2	1:QL:29:TYR:OH	1.71	1.07
1:Q4:53:TYR:O	1:IL:118:THR:CG2	2.02	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R4:118:THR:HG21	1:BS:53:TYR:O	1.55	1.07
1:h4:22:LEU:HD22	1:gG:47:GLU:OE2	1.53	1.07
1:Q6:14:VAL:CB	1:CJ:45:MET:HE1	1.28	1.07
1:Q6:148:ALA:C	2:NJ:15:TYR:CE2	2.33	1.07
1:C7:148:ALA:C	2:NK:15:TYR:CE2	2.33	1.07
1:I7:118:THR:CG2	1:CQ:53:TYR:O	2.02	1.07
1:K7:49:PHE:HB3	1:CQ:137:ASP:OD2	1.54	1.07
1:Q7:47:GLU:OE2	1:aL:22:LEU:HD22	1.53	1.07
1:R7:96:PRO:HD2	1:QQ:166:LEU:HG	1.29	1.07
1:R7:108:MET:HE1	1:Y7:364:PHE:HZ	0.96	1.07
1:a7:49:PHE:HB3	1:KE:137:ASP:OD2	1.54	1.07
5:EB:66:TYR:HA	5:EF:10:TYR:OH	1.48	1.07
1:LD:368:GLU:HA	1:DK:375:TRP:CG	1.72	1.07
1:BE:109:LEU:O	1:AP:105:GLU:HB2	1.49	1.07
1:BE:116:MET:HE2	1:CP:54:LEU:CD2	1.82	1.07
1:FE:365:HIS:NE2	2:HP:10:MET:SD	2.24	1.07
5:OF:371:PRO:HB3	5:CM:275:ASN:ND2	1.69	1.07
1:CG:364:PHE:HZ	1:AR:108:MET:HE1	0.96	1.07
1:aG:53:TYR:CD1	1:BK:222:SER:OG	2.06	1.07
1:aG:144:THR:C	1:BK:82:ILE:HD12	1.80	1.07
1:gG:304:GLN:HB3	1:AL:103:LYS:HE3	1.36	1.07
5:EH:10:TYR:OH	5:EN:66:TYR:HA	1.49	1.07
4:BI:32:PHE:CG	5:FM:55:LEU:HD12	1.90	1.07
5:FI:55:LEU:HD12	4:BN:32:PHE:CG	1.90	1.07
2:HK:8:ARG:NH1	1:jR:374:HIS:NE2	2.02	1.07
1:CL:118:THR:CG2	1:YR:53:TYR:O	2.02	1.07
1:CL:302:ASP:OD2	1:YR:29:TYR:OH	1.71	1.07
3:AM:117:PRO:N	2:LS:7:MET:HE3	1.56	1.07
3:AN:197:VAL:HG12	5:DO:40:THR:HG22	1.20	1.07
1:CQ:118:THR:CG2	1:gR:53:TYR:O	2.02	1.07
1:T1:144:THR:HA	1:CJ:82:ILE:HD13	1.37	1.06
5:E2:66:TYR:HB2	5:EB:10:TYR:OH	1.50	1.06
1:C3:47:GLU:OE2	1:SG:22:LEU:HD22	1.53	1.06
1:I3:53:TYR:O	1:QL:118:THR:CG2	2.02	1.06
1:R4:223:GLY:CA	1:BS:53:TYR:CZ	2.37	1.06
1:g4:105:GLU:HB3	1:BK:109:LEU:HD13	1.11	1.06
5:F5:55:LEU:HD12	4:BH:32:PHE:CG	1.90	1.06
1:S6:144:THR:C	1:AS:82:ILE:HD12	1.80	1.06
1:a6:47:GLU:HB3	1:SE:20:SER:HB2	1.33	1.06
1:i6:53:TYR:CD1	1:BJ:222:SER:OG	2.06	1.06
1:i6:367:PRO:CG	1:BJ:375:TRP:CZ3	2.37	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I7:208:LEU:CD1	1:I7:391:ILE:HD13	1.79	1.06
1:I7:302:ASP:OD2	1:CQ:29:TYR:OH	1.71	1.06
1:J7:103:LYS:HE3	1:bQ:304:GLN:HB3	1.36	1.06
1:S7:49:PHE:HB3	1:QR:137:ASP:OD2	1.54	1.06
1:Y7:302:ASP:OD2	1:KE:29:TYR:OH	1.71	1.06
1:a8:22:LEU:HD22	1:bQ:47:GLU:OE2	1.53	1.06
1:i8:367:PRO:CG	1:BD:375:TRP:CZ3	2.37	1.06
5:FB:55:LEU:HD12	4:BM:32:PHE:CG	1.90	1.06
4:BC:33:TYR:OH	5:EN:57:GLU:HB3	1.52	1.06
1:DD:314:GLY:O	1:KS:31:LYS:CG	2.02	1.06
1:KD:366:ASN:OD1	1:JS:108:MET:HB2	1.53	1.06
2:MD:50:LYS:O	3:AF:114:PHE:CZ	2.06	1.06
1:DE:81:PHE:CD2	1:BP:139:ARG:CD	2.31	1.06
1:BE:223:GLY:CA	1:CP:53:TYR:CZ	2.37	1.06
2:HE:1:MET:N	1:CP:150:ASN:OD1	1.84	1.06
1:ME:47:GLU:HB3	1:QQ:20:SER:HB2	1.33	1.06
3:AH:112:ILE:CD1	2:MP:23:ARG:HH11	1.65	1.06
1:AJ:305:SER:CB	1:JS:28:ASP:OD2	2.02	1.06
1:DJ:80:ASP:HB3	1:LP:145:LEU:HD21	1.31	1.06
1:KJ:47:GLU:OE1	1:LP:22:LEU:HD22	1.53	1.06
1:KJ:61:THR:HG23	1:LP:57:LYS:HE3	1.34	1.06
1:LJ:47:GLU:HG3	1:JS:20:SER:HB2	1.28	1.06
1:CK:53:TYR:CZ	1:hR:223:GLY:CA	2.37	1.06
3:AO:29:ARG:NH2	1:IS:370:ASP:OD2	1.87	1.06
1:KP:261:ILE:HG21	1:KP:265:ASP:OD1	1.52	1.06
1:CQ:208:LEU:CD1	1:CQ:391:ILE:HD13	1.79	1.06
1:CQ:302:ASP:OD2	1:gR:29:TYR:OH	1.71	1.06
1:Q1:137:ASP:OD2	1:KG:49:PHE:HB3	1.54	1.06
1:C4:20:SER:HB2	1:BG:47:GLU:HB3	1.33	1.06
1:C4:137:ASP:OD2	1:BG:49:PHE:HB3	1.54	1.06
1:A4:103:LYS:HE3	1:QG:304:GLN:HB3	1.36	1.06
1:S4:22:LEU:HD22	1:IQ:47:GLU:OE2	1.53	1.06
1:f4:47:GLU:OE2	1:B6:22:LEU:HD22	1.53	1.06
3:A5:116:VAL:CG1	2:MJ:21:ASN:HD21	1.57	1.06
5:E5:57:GLU:HB3	4:BH:33:TYR:CZ	1.73	1.06
1:Z6:108:MET:HE1	1:QQ:364:PHE:HZ	0.96	1.06
1:g6:148:ALA:C	2:NP:15:TYR:CE2	2.33	1.06
1:Q7:137:ASP:OD2	1:aL:49:PHE:HB3	1.54	1.06
1:i7:49:PHE:HB3	1:C8:137:ASP:OD2	1.54	1.06
1:i8:31:LYS:HA	1:BD:314:GLY:O	1.53	1.06
1:i8:53:TYR:CD1	1:BD:222:SER:OG	2.06	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i8:144:THR:C	1:BD:82:ILE:HD12	1.80	1.06
5:E9:140:ASP:HB2	5:C9:139:LYS:HB3	1.28	1.06
1:DD:222:SER:HB3	1:KS:53:TYR:HD1	1.19	1.06
1:KD:47:GLU:OE1	1:KS:22:LEU:HD22	1.53	1.06
1:LD:22:LEU:CA	1:KK:47:GLU:OE1	2.04	1.06
5:NF:230:SER:HA	5:CM:266:THR:HB	1.09	1.06
1:KJ:21:ALA:CB	1:AP:123:ASN:HD21	1.51	1.06
1:KJ:372:VAL:N	2:MP:11:MET:HE1	1.68	1.06
1:LK:108:MET:HE1	1:jR:366:ASN:HA	1.28	1.06
1:LK:133:LEU:HG	2:FP:11:MET:CB	1.74	1.06
2:aQ:2:TYR:HE2	1:AS:157:LYS:NZ	1.52	1.06
1:AS:261:ILE:HG22	1:AS:265:ASP:OD2	1.55	1.06
1:I1:118:THR:CG2	1:Y6:53:TYR:O	2.02	1.06
1:I1:137:ASP:OD2	1:UE:49:PHE:HB3	1.54	1.06
5:O2:355:GLN:OE1	5:CB:275:ASN:ND2	1.89	1.06
5:O2:371:PRO:HB3	5:CB:275:ASN:ND2	1.69	1.06
1:A3:108:MET:HE1	1:C8:364:PHE:HZ	0.96	1.06
1:Q3:118:THR:CG2	1:CR:53:TYR:O	2.02	1.06
1:Q4:47:GLU:OE2	1:KL:22:LEU:HD22	1.53	1.06
1:Q4:304:GLN:HB3	1:h8:103:LYS:HE3	1.36	1.06
1:X4:47:GLU:OE2	1:BR:22:LEU:HD22	1.53	1.06
3:A5:112:ILE:CG1	2:MJ:27:ASN:HD21	1.69	1.06
3:A5:208:LYS:O	4:BO:250:ILE:HD12	1.45	1.06
5:E5:10:TYR:OH	5:EI:66:TYR:HB2	1.50	1.06
1:i6:31:LYS:HA	1:BJ:314:GLY:O	1.53	1.06
1:B7:367:PRO:CG	1:BP:375:TRP:CZ3	2.37	1.06
1:g7:20:SER:HB2	1:CE:47:GLU:HB3	1.33	1.06
1:C8:118:THR:CG2	1:AE:53:TYR:O	2.02	1.06
1:g8:148:ALA:C	2:MS:15:TYR:CE2	2.33	1.06
1:i8:20:SER:CB	1:DD:47:GLU:HB2	1.76	1.06
5:E9:10:TYR:OH	5:EA:66:TYR:HA	1.48	1.06
5:F9:55:LEU:HD12	4:BB:32:PHE:CG	1.89	1.06
3:AB:113:TYR:O	2:MD:21:ASN:HA	1.53	1.06
2:MD:11:MET:HE1	1:KK:372:VAL:N	1.68	1.06
1:KE:118:THR:CG2	1:QQ:53:TYR:O	2.02	1.06
1:aE:118:THR:CG2	1:CG:53:TYR:O	2.02	1.06
5:FF:55:LEU:HD12	4:BO:32:PHE:CG	1.90	1.06
3:AI:112:ILE:CD1	2:MJ:6:ASN:H	1.65	1.06
1:DJ:126:VAL:CG1	1:LP:25:PHE:CZ	2.34	1.06
1:DJ:314:GLY:O	1:LP:31:LYS:CG	2.02	1.06
1:LJ:31:LYS:CG	1:CS:314:GLY:O	2.02	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:53:TYR:O	1:hR:118:THR:HG21	1.55	1.06
1:CK:82:ILE:CD1	1:jR:144:THR:N	2.18	1.06
1:LK:22:LEU:CA	1:KP:47:GLU:OE1	2.04	1.06
1:LK:57:LYS:HE3	1:KP:61:THR:HG23	1.35	1.06
1:LK:145:LEU:HD21	1:DP:80:ASP:HB3	1.31	1.06
3:AO:66:ILE:CB	2:LS:54:THR:HG22	1.86	1.06
1:AP:62:LEU:CG	1:KP:88:GLU:HG2	1.85	1.06
1:IS:62:LEU:CG	1:JS:88:GLU:HG2	1.85	1.06
1:A1:103:LYS:HE3	1:C6:304:GLN:HB3	1.36	1.06
1:K1:49:PHE:HB3	1:Y6:137:ASP:OD2	1.54	1.06
1:R1:109:LEU:O	1:AJ:105:GLU:HB2	1.49	1.06
1:C3:53:TYR:O	1:QG:118:THR:CG2	2.02	1.06
1:I3:304:GLN:HB3	1:R8:103:LYS:HE3	1.36	1.06
1:J3:103:LYS:HE3	1:Q8:304:GLN:HB3	1.36	1.06
1:C4:47:GLU:OE2	1:BG:22:LEU:HD22	1.53	1.06
1:B4:49:PHE:HB3	1:aE:137:ASP:OD2	1.54	1.06
1:K4:49:PHE:HB3	1:QL:137:ASP:OD2	1.54	1.06
1:C6:47:GLU:OE2	1:iG:22:LEU:HD22	1.53	1.06
1:S6:20:SER:HB2	1:CS:47:GLU:H	1.20	1.06
1:i6:144:THR:C	1:BJ:82:ILE:HD12	1.80	1.06
5:E9:57:GLU:HB3	4:BB:33:TYR:OH	1.52	1.06
3:AA:115:ILE:CG1	2:MK:7:MET:CE	2.33	1.06
5:OB:355:GLN:OE1	5:CF:275:ASN:ND2	1.89	1.06
4:BC:33:TYR:CZ	5:EN:57:GLU:HB3	1.73	1.06
1:AD:62:LEU:CG	1:KD:88:GLU:HG2	1.85	1.06
1:DD:120:LEU:HD11	1:KS:55:PHE:HD1	0.98	1.06
1:LD:35:PHE:CZ	1:DK:174:MET:O	2.08	1.06
1:BE:105:GLU:O	1:BJ:109:LEU:CD1	1.94	1.06
1:ZG:108:MET:HE1	1:gG:364:PHE:HZ	0.96	1.06
1:aG:27:HIS:C	1:CK:100:ASP:HB2	1.80	1.06
3:AH:151:ASN:HB2	1:AP:135:ASN:ND2	1.65	1.06
2:FJ:2:TYR:CB	2:NP:55:GLY:CA	2.30	1.06
1:KJ:366:ASN:OD1	1:KP:108:MET:HB2	1.53	1.06
1:LJ:35:PHE:CZ	1:CS:174:MET:O	2.08	1.06
1:LJ:153:LEU:HD11	2:ES:2:TYR:CD2	1.89	1.06
1:AK:62:LEU:CB	1:KK:88:GLU:HB3	1.67	1.06
1:LK:28:ASP:HB3	1:DP:304:GLN:NE2	1.69	1.06
1:LK:47:GLU:HB2	1:KP:22:LEU:HD23	1.13	1.06
1:IL:137:ASP:OD2	1:KQ:49:PHE:HB3	1.54	1.06
3:AO:157:ILE:CG2	1:IS:145:LEU:HD21	1.85	1.06
1:YR:208:LEU:CD1	1:YR:391:ILE:HD13	1.79	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gR:208:LEU:CD1	1:gR:391:ILE:HD13	1.79	1.06
1:C1:304:GLN:HB3	1:A6:103:LYS:HE3	1.36	1.06
1:X1:118:THR:CG2	1:IR:53:TYR:O	2.02	1.06
1:f1:53:TYR:O	1:C3:118:THR:CG2	2.02	1.06
1:f1:137:ASP:OD2	1:B3:49:PHE:HB3	1.54	1.06
1:f1:302:ASP:OD2	1:QG:29:TYR:OH	1.71	1.06
1:h1:22:LEU:HD22	1:QG:47:GLU:OE2	1.53	1.06
1:K3:49:PHE:HB3	1:I4:137:ASP:OD2	1.54	1.06
1:C4:208:LEU:CD1	1:C4:391:ILE:HD13	1.79	1.06
1:Q4:118:THR:CG2	1:IQ:53:TYR:O	2.02	1.06
1:T4:27:HIS:ND1	1:BS:312:PRO:HD3	1.71	1.06
1:X4:20:SER:HB2	1:BR:47:GLU:HB3	1.33	1.06
1:X4:304:GLN:HB3	1:Z8:103:LYS:HE3	1.36	1.06
1:Y4:108:MET:HE1	1:bQ:364:PHE:HZ	0.96	1.06
1:g4:103:LYS:HE3	1:YG:304:GLN:HB3	1.36	1.06
1:g4:221:ALA:CA	1:CD:38:LYS:CD	2.05	1.06
1:I6:137:ASP:OD2	1:aR:49:PHE:HB3	1.54	1.06
1:I6:208:LEU:CD1	1:I6:391:ILE:HD13	1.79	1.06
1:i6:20:SER:HB2	1:DJ:47:GLU:N	1.71	1.06
1:B8:49:PHE:HB3	1:AE:137:ASP:OD2	1.54	1.06
1:S8:49:PHE:HB3	1:IG:137:ASP:OD2	1.54	1.06
1:DD:310:THR:O	1:KS:27:HIS:ND1	1.89	1.06
2:GE:11:MET:HG2	1:BP:133:LEU:HB3	1.33	1.06
1:SE:304:GLN:HB3	1:JQ:103:LYS:HE3	1.36	1.06
1:bE:96:PRO:HD2	1:CR:166:LEU:HG	1.29	1.06
5:OF:355:GLN:OE1	5:CM:275:ASN:ND2	1.89	1.06
1:CG:304:GLN:HB3	1:ZL:103:LYS:HE3	1.36	1.06
1:aG:144:THR:CA	1:BK:82:ILE:HD13	1.70	1.06
1:aG:367:PRO:CG	1:BK:375:TRP:CZ3	2.37	1.06
5:EI:10:TYR:OH	5:EO:66:TYR:HA	1.48	1.06
2:FJ:2:TYR:CD2	1:LP:153:LEU:HD11	1.89	1.06
1:KJ:49:PHE:HB2	1:LP:22:LEU:CD1	1.84	1.06
1:KJ:261:ILE:HG21	1:KJ:265:ASP:OD1	1.52	1.06
1:KJ:365:HIS:CD2	1:AP:361:LYS:HE3	1.84	1.06
1:BK:261:ILE:HG22	1:BK:265:ASP:OD2	1.55	1.06
1:LK:31:LYS:CG	1:DP:314:GLY:O	2.02	1.06
1:LK:143:GLN:HA	1:DP:82:ILE:HG12	1.15	1.06
1:IL:53:TYR:O	1:IQ:118:THR:CG2	2.02	1.06
1:C1:29:TYR:OH	1:bQ:302:ASP:OD2	1.71	1.05
1:C1:47:GLU:OE2	1:dQ:22:LEU:HD22	1.53	1.05
1:I1:304:GLN:HB3	1:JG:103:LYS:HE3	1.36	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B2:32:PHE:CG	5:FA:55:LEU:HD12	1.90	1.05
1:R4:116:MET:HE2	1:BS:54:LEU:CD2	1.82	1.05
1:g4:222:SER:O	1:CD:53:TYR:HE1	1.39	1.05
1:S6:20:SER:HB2	1:CS:47:GLU:N	1.71	1.05
1:Y6:302:ASP:OD2	1:SE:29:TYR:OH	1.71	1.05
1:I7:137:ASP:OD2	1:iR:49:PHE:HB3	1.54	1.05
1:I8:47:GLU:OE2	1:KR:22:LEU:HD22	1.53	1.05
1:g8:208:LEU:CD1	1:g8:391:ILE:HD13	1.79	1.05
5:CA:275:ASN:ND2	5:OC:355:GLN:OE1	1.89	1.05
4:BC:32:PHE:CG	5:FN:55:LEU:HD12	1.90	1.05
1:DD:109:LEU:HG	1:JS:106:GLU:N	1.71	1.05
1:KD:14:VAL:CG2	1:KS:45:MET:CB	2.27	1.05
1:KD:47:GLU:OE1	1:KS:22:LEU:CA	2.04	1.05
1:KD:100:ASP:C	1:KK:25:PHE:O	1.99	1.05
1:ME:49:PHE:HB3	1:QQ:137:ASP:OD2	1.54	1.05
1:DJ:174:MET:O	1:LP:35:PHE:CZ	2.08	1.05
1:DJ:304:GLN:NE2	1:LP:28:ASP:HB3	1.70	1.05
1:KJ:55:PHE:CD2	1:LP:58:ILE:CG2	2.33	1.05
1:LJ:22:LEU:CD1	1:JS:49:PHE:HB2	1.84	1.05
1:KK:100:ASP:C	1:KP:25:PHE:O	1.99	1.05
1:LK:35:PHE:CZ	1:DP:174:MET:O	2.08	1.05
1:BQ:49:PHE:HB3	1:gR:137:ASP:OD2	1.54	1.05
2:W1:54:THR:HG21	2:NJ:1:MET:SD	1.96	1.05
1:h1:47:GLU:HB3	1:QG:20:SER:HB2	1.33	1.05
1:C3:304:GLN:HB3	1:h7:103:LYS:HE3	1.36	1.05
1:A3:103:LYS:HE3	1:g7:304:GLN:HB3	1.36	1.05
2:d3:2:TYR:HE2	1:BD:157:LYS:NZ	1.52	1.05
1:J4:103:LYS:HE3	1:C8:304:GLN:HB3	1.36	1.05
1:Q4:20:SER:HB2	1:KL:47:GLU:HB3	1.33	1.05
1:Q4:29:TYR:OH	1:IL:302:ASP:OD2	1.71	1.05
1:R4:222:SER:O	1:BS:53:TYR:HE1	1.39	1.05
1:T4:144:THR:N	1:BS:82:ILE:CD1	2.17	1.05
3:A5:150:TYR:HA	1:AJ:144:THR:CB	1.78	1.05
5:C5:275:ASN:ND2	5:OI:371:PRO:HB3	1.69	1.05
5:N5:230:SER:HA	5:CN:266:THR:HB	1.09	1.05
5:O5:355:GLN:OE1	5:CN:275:ASN:ND2	1.89	1.05
1:C6:29:TYR:OH	1:gG:302:ASP:OD2	1.71	1.05
1:S6:53:TYR:CD1	1:AS:222:SER:OG	2.06	1.05
1:g6:367:PRO:HG2	1:LP:375:TRP:CE2	1.92	1.05
1:C7:80:ASP:OD2	1:DP:145:LEU:HD23	1.57	1.05
1:Z7:103:LYS:HE3	1:IR:304:GLN:HB3	1.36	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I8:53:TYR:O	1:IR:118:THR:CG2	2.02	1.05
1:I8:137:ASP:OD2	1:KR:49:PHE:HB3	1.54	1.05
5:CC:275:ASN:ND2	5:OH:355:GLN:OE1	1.89	1.05
1:KD:25:PHE:O	1:JS:100:ASP:C	1.99	1.05
1:KD:58:ILE:HG21	1:KS:57:LYS:HA	1.32	1.05
1:LD:22:LEU:CD1	1:KK:49:PHE:HB2	1.84	1.05
1:LD:33:TRP:CH2	1:DK:173:ALA:HB3	1.84	1.05
2:ND:15:TYR:CE2	1:YG:148:ALA:C	2.33	1.05
1:BE:118:THR:HG21	1:CP:53:TYR:O	1.55	1.05
1:FE:27:HIS:ND1	1:CP:312:PRO:HD3	1.71	1.05
2:HE:11:MET:CE	1:CP:372:VAL:HG12	1.87	1.05
1:AG:103:LYS:HE3	1:YL:304:GLN:HB3	1.36	1.05
1:aG:20:SER:HB2	1:DK:47:GLU:N	1.71	1.05
5:CH:275:ASN:ND2	5:ON:355:GLN:OE1	1.89	1.05
4:BI:33:TYR:OH	5:EM:57:GLU:HB3	1.52	1.05
1:DJ:119:LYS:HZ1	1:LP:38:LYS:CG	1.68	1.05
1:DJ:375:TRP:CG	1:LP:368:GLU:HA	1.72	1.05
1:KJ:100:ASP:C	1:JS:25:PHE:O	1.99	1.05
1:KJ:372:VAL:CG2	2:MP:11:MET:HE3	1.40	1.05
1:LJ:27:HIS:ND1	1:CS:310:THR:O	1.89	1.05
1:CK:312:PRO:HD3	1:jR:27:HIS:ND1	1.71	1.05
1:LK:98:ASN:HD21	1:jR:29:TYR:CA	1.70	1.05
5:NM:230:SER:HA	5:CO:266:THR:HB	1.09	1.05
1:I1:53:TYR:O	1:SE:118:THR:CG2	2.02	1.05
1:Q1:20:SER:HB2	1:KG:47:GLU:HB3	1.33	1.05
1:R1:103:LYS:HE3	1:Q6:304:GLN:HB3	1.36	1.05
1:R1:116:MET:HE2	1:CJ:54:LEU:CD2	1.82	1.05
4:B2:30:LEU:HB2	5:EA:64:TRP:CG	1.92	1.05
5:C2:275:ASN:ND2	5:O9:355:GLN:OE1	1.89	1.05
1:Q3:137:ASP:OD2	1:Z4:49:PHE:HB3	1.54	1.05
1:K4:47:GLU:HB3	1:QL:20:SER:HB2	1.33	1.05
1:Z6:103:LYS:HE3	1:KE:304:GLN:HB3	1.36	1.05
1:a6:22:LEU:HD22	1:SE:47:GLU:OE2	1.53	1.05
1:C7:367:PRO:HG2	1:LK:375:TRP:CE2	1.92	1.05
1:g7:29:TYR:OH	1:AE:302:ASP:OD2	1.71	1.05
1:g7:47:GLU:OE2	1:CE:22:LEU:HD22	1.53	1.05
4:B9:33:TYR:CZ	5:EC:57:GLU:HB3	1.73	1.05
1:DD:174:MET:O	1:KS:35:PHE:CZ	2.08	1.05
2:FD:11:MET:CB	1:KS:133:LEU:HG	1.74	1.05
1:KD:80:ASP:OD2	3:AF:65:ASN:CG	2.00	1.05
1:LD:28:ASP:HB3	1:DK:304:GLN:NE2	1.69	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FE:29:TYR:CA	1:LP:98:ASN:HD21	1.70	1.05
1:TE:103:LYS:HE3	1:IQ:304:GLN:HB3	1.36	1.05
1:cE:22:LEU:HD22	1:CG:47:GLU:OE2	1.53	1.05
1:aG:31:LYS:HA	1:BK:314:GLY:O	1.53	1.05
3:AH:112:ILE:HD12	2:MP:20:LEU:HD23	1.10	1.05
1:AJ:56:PRO:O	3:AN:154:ILE:CG2	2.04	1.05
1:AK:62:LEU:CG	1:KK:88:GLU:HG2	1.85	1.05
1:CK:372:VAL:HG12	2:kR:11:MET:CE	1.87	1.05
3:AO:36:LEU:HD22	1:IS:145:LEU:HD12	1.35	1.05
1:J1:103:LYS:HE3	1:IG:304:GLN:HB3	1.36	1.05
1:Q1:53:TYR:O	1:IG:118:THR:CG2	2.02	1.05
4:B2:33:TYR:CE1	5:EA:57:GLU:HB3	1.67	1.05
5:E2:64:TRP:CG	4:BF:30:LEU:HB2	1.92	1.05
1:I4:304:GLN:HB3	1:A8:103:LYS:HE3	1.36	1.05
1:g4:116:MET:HE2	1:CD:54:LEU:CD2	1.82	1.05
3:A5:152:SER:O	1:AJ:139:ARG:CZ	2.04	1.05
3:A5:156:ILE:N	1:AJ:139:ARG:NH2	2.03	1.05
1:K6:49:PHE:HB3	1:CL:137:ASP:OD2	1.54	1.05
1:h6:103:LYS:HE3	1:AE:304:GLN:HB3	1.36	1.05
1:S7:47:GLU:HB3	1:QR:20:SER:HB2	1.33	1.05
1:g7:118:THR:CG2	1:C8:53:TYR:O	2.02	1.05
1:g7:208:LEU:CD1	1:g7:391:ILE:HD13	1.79	1.05
1:AD:116:MET:CG	1:KK:51:ASN:ND2	2.20	1.05
1:DD:84:GLN:HG3	1:KS:140:PHE:C	1.72	1.05
1:KD:51:ASN:ND2	1:IS:116:MET:CG	2.20	1.05
1:AJ:62:LEU:CG	1:KJ:88:GLU:HG2	1.85	1.05
1:LJ:22:LEU:CA	1:JS:47:GLU:OE1	2.04	1.05
1:CK:315:ALA:HA	1:jR:30:SER:O	1.56	1.05
1:LK:58:ILE:HG23	1:KP:55:PHE:HE2	1.16	1.05
1:RL:103:LYS:HE3	1:QR:304:GLN:HB3	1.36	1.05
5:OM:355:GLN:OE1	5:CO:275:ASN:ND2	1.89	1.05
1:S1:47:GLU:HB3	1:Q8:20:SER:HB2	1.33	1.05
1:T1:30:SER:O	1:CJ:315:ALA:HA	1.56	1.05
3:A2:6:ARG:HE	5:DA:51:ARG:CB	1.70	1.05
5:C2:266:THR:HB	5:N9:230:SER:HA	1.08	1.05
1:I3:20:SER:HB2	1:SL:47:GLU:HB3	1.33	1.05
1:I4:118:THR:CG2	1:QL:53:TYR:O	2.02	1.05
1:f4:137:ASP:OD2	1:B6:49:PHE:HB3	1.54	1.05
1:Y6:304:GLN:HB3	1:LE:103:LYS:HE3	1.36	1.05
1:g6:304:GLN:HB3	1:BE:103:LYS:HE3	1.36	1.05
5:E9:64:TRP:CG	4:BB:30:LEU:HB2	1.92	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C9:275:ASN:ND2	5:OA:355:GLN:OE1	1.89	1.05
5:EA:10:TYR:OH	5:EC:66:TYR:HB2	1.50	1.05
5:EA:21:ILE:HG23	5:EC:55:LEU:HD22	1.05	1.05
3:AB:112:ILE:O	2:MD:22:LYS:N	1.89	1.05
3:AB:150:TYR:OH	1:AD:144:THR:HB	1.55	1.05
4:BC:30:LEU:HB2	5:EN:64:TRP:CG	1.92	1.05
1:LD:140:PHE:C	1:DK:84:GLN:HG3	1.72	1.05
1:SE:208:LEU:CD1	1:SE:391:ILE:HD13	1.79	1.05
1:bE:103:LYS:HE3	1:CR:304:GLN:HB3	1.36	1.05
5:EF:66:TYR:HB2	5:EM:10:TYR:OH	1.50	1.05
3:AI:208:LYS:HB3	4:BM:251:TRP:CD1	1.92	1.05
5:EI:64:TRP:CG	4:BN:30:LEU:HB2	1.92	1.05
1:AJ:116:MET:CG	1:JS:51:ASN:ND2	2.20	1.05
1:DJ:310:THR:O	1:LP:27:HIS:ND1	1.89	1.05
1:KJ:47:GLU:OE1	1:LP:22:LEU:CA	2.04	1.05
1:KJ:51:ASN:ND2	1:AP:116:MET:CG	2.20	1.05
1:AK:305:SER:HB3	1:KP:28:ASP:OD2	1.57	1.05
1:LK:47:GLU:HG3	1:KP:20:SER:HB2	1.28	1.05
1:LK:53:TYR:CD1	1:DP:222:SER:CB	2.38	1.05
2:aQ:11:MET:HG2	1:AS:133:LEU:HB3	1.33	1.05
1:T1:27:HIS:ND1	1:CJ:312:PRO:HD3	1.71	1.04
1:C4:208:LEU:HD11	1:C4:391:ILE:HD12	1.05	1.04
1:T4:29:TYR:CA	1:KS:98:ASN:HD21	1.70	1.04
1:T4:30:SER:HA	1:BS:315:ALA:HB2	1.33	1.04
5:E5:57:GLU:HB3	4:BH:33:TYR:OH	1.52	1.04
1:Q6:80:ASP:OD2	1:CS:145:LEU:HD23	1.57	1.04
1:C7:29:TYR:HD2	1:LK:317:PHE:CE1	1.61	1.04
1:Y7:47:GLU:OE2	1:SQ:22:LEU:HD22	1.53	1.04
1:g8:32:SER:OG	1:KS:316:VAL:CG2	2.06	1.04
1:g8:208:LEU:HD11	1:g8:391:ILE:HD12	1.05	1.04
3:AA:6:ARG:HE	5:DH:51:ARG:CB	1.71	1.04
4:BA:30:LEU:HB2	5:EH:64:TRP:CG	1.92	1.04
4:BA:33:TYR:CE1	5:EH:57:GLU:HB3	1.67	1.04
4:BB:251:TRP:CD1	3:AM:208:LYS:HB3	1.92	1.04
5:EB:64:TRP:NE1	4:BM:30:LEU:N	2.05	1.04
5:EC:21:ILE:HG23	5:EH:55:LEU:HD22	1.05	1.04
1:LD:38:LYS:HG2	1:DK:119:LYS:NZ	1.71	1.04
1:aG:20:SER:CB	1:DK:47:GLU:HB2	1.76	1.04
5:DI:51:ARG:CB	3:AN:6:ARG:HE	1.71	1.04
1:BJ:133:LEU:HB3	2:iL:11:MET:HG2	1.33	1.04
1:DJ:173:ALA:HB3	1:LP:33:TRP:CH2	1.84	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FJ:2:TYR:CD1	2:NP:55:GLY:C	2.34	1.04
1:KJ:25:PHE:O	1:KP:100:ASP:C	1.99	1.04
1:AK:223:GLY:CA	1:KP:53:TYR:CE1	2.40	1.04
1:LK:33:TRP:CH2	1:DP:173:ALA:HB3	1.84	1.04
1:LK:38:LYS:HG2	1:DP:119:LYS:NZ	1.71	1.04
1:DP:372:VAL:HG23	2:mR:11:MET:HE3	1.39	1.04
3:A5:158:GLU:OE1	1:AJ:136:ASN:CB	2.04	1.04
5:D5:51:ARG:CB	3:AH:6:ARG:HE	1.70	1.04
1:Q6:57:LYS:HB3	1:CJ:143:GLN:HE21	1.21	1.04
1:C7:14:VAL:CB	1:CK:45:MET:CE	1.81	1.04
1:R7:103:LYS:HE3	1:QQ:304:GLN:HB3	1.36	1.04
3:A9:81:LEU:HD11	1:AK:153:LEU:HD12	1.35	1.04
3:A9:154:ILE:C	1:AK:139:ARG:HH21	1.62	1.04
3:AA:112:ILE:HG21	2:MK:13:THR:O	1.52	1.04
1:BD:106:GLU:OE1	1:IS:110:LYS:NZ	1.89	1.04
1:LD:27:HIS:ND1	1:DK:310:THR:O	1.89	1.04
1:YG:80:ASP:OD2	1:DK:145:LEU:HD23	1.57	1.04
1:bG:100:ASP:CB	1:BK:25:PHE:O	2.05	1.04
3:AI:104:GLN:HE21	2:MJ:19:ARG:HB3	1.18	1.04
5:CI:275:ASN:ND2	5:OO:355:GLN:OE1	1.89	1.04
1:DJ:123:ASN:ND2	1:LP:21:ALA:HB1	1.65	1.04
1:CK:53:TYR:HE1	1:hR:222:SER:O	1.39	1.04
1:LK:27:HIS:ND1	1:DP:310:THR:O	1.89	1.04
3:AO:155:GLU:OE1	1:IS:143:GLN:HG3	1.57	1.04
1:B1:49:PHE:HB3	1:Y8:137:ASP:OD2	1.54	1.04
1:S1:105:GLU:HB3	1:LJ:109:LEU:HD23	1.33	1.04
1:f1:304:GLN:HB3	1:AQ:103:LYS:HE3	1.36	1.04
1:C3:208:LEU:HD11	1:C3:391:ILE:HD12	1.04	1.04
1:T4:365:HIS:NE2	2:GS:10:MET:SD	2.24	1.04
1:T4:374:HIS:NE2	2:GS:8:ARG:NH1	2.02	1.04
1:i8:20:SER:HB2	1:DD:47:GLU:N	1.71	1.04
5:C9:265:LEU:CD2	5:NA:231:ASN:CG	2.30	1.04
5:CA:265:LEU:CD2	5:NC:231:ASN:CG	2.31	1.04
5:NB:230:SER:HA	5:CF:266:THR:HB	1.09	1.04
3:AC:6:ARG:HE	5:DN:51:ARG:CB	1.70	1.04
1:AD:110:LYS:NZ	1:BK:106:GLU:OE1	1.89	1.04
1:KD:25:PHE:HA	1:JS:100:ASP:HA	1.31	1.04
1:KD:58:ILE:CG2	1:KS:57:LYS:HA	1.88	1.04
1:LD:25:PHE:CZ	1:DK:126:VAL:CG1	2.34	1.04
5:EI:64:TRP:NE1	4:BN:30:LEU:N	2.05	1.04
1:DJ:119:LYS:NZ	1:LP:38:LYS:HG2	1.71	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:222:SER:CB	1:LP:53:TYR:CD1	2.38	1.04
1:KJ:22:LEU:HD23	1:LP:47:GLU:CB	1.82	1.04
1:KJ:28:ASP:OD2	1:AP:305:SER:HB3	1.57	1.04
1:LJ:38:LYS:HG2	1:CS:119:LYS:HZ1	1.18	1.04
1:LJ:53:TYR:HD1	1:CS:222:SER:HB3	1.20	1.04
1:AK:110:LYS:NZ	1:BP:106:GLU:OE1	1.89	1.04
1:LK:53:TYR:HD1	1:DP:222:SER:HB3	1.20	1.04
3:AO:32:PHE:CD1	1:IS:139:ARG:NH2	2.26	1.04
3:AO:36:LEU:HD23	1:IS:145:LEU:HD11	1.39	1.04
1:BP:261:ILE:HG22	1:BP:265:ASP:OD2	1.55	1.04
1:IQ:208:LEU:HD11	1:IQ:391:ILE:HD12	1.04	1.04
1:R1:108:MET:HE1	1:CS:364:PHE:CZ	1.93	1.04
1:I3:208:LEU:HD11	1:I3:391:ILE:HD12	1.05	1.04
1:T4:30:SER:O	1:BS:315:ALA:HA	1.56	1.04
2:U4:11:MET:CE	1:BS:372:VAL:HG12	1.87	1.04
1:g4:108:MET:HE1	1:DK:364:PHE:CZ	1.93	1.04
1:g4:118:THR:HG21	1:CD:53:TYR:O	1.55	1.04
1:i4:144:THR:N	1:CD:82:ILE:CD1	2.18	1.04
5:N5:231:ASN:CG	5:CN:265:LEU:CD2	2.30	1.04
1:g6:80:ASP:OD2	1:DJ:145:LEU:HD23	1.57	1.04
1:i6:27:HIS:C	1:CJ:100:ASP:HB2	1.79	1.04
1:j6:100:ASP:CB	1:BJ:25:PHE:O	2.05	1.04
1:C7:302:ASP:CG	1:DP:29:TYR:OH	2.01	1.04
3:A9:104:GLN:CB	1:KK:78:GLU:OE1	2.06	1.04
4:B9:30:LEU:HB2	5:EC:64:TRP:CG	1.92	1.04
3:AA:106:ARG:CB	2:MK:21:ASN:HB2	1.88	1.04
2:FD:2:TYR:CD1	2:MS:55:GLY:C	2.35	1.04
1:KD:28:ASP:OD2	1:IS:305:SER:HB3	1.57	1.04
1:KD:53:TYR:CE1	1:IS:223:GLY:CA	2.40	1.04
1:LD:375:TRP:CE2	1:YG:367:PRO:HG2	1.92	1.04
1:DJ:222:SER:HB3	1:LP:53:TYR:HD1	1.20	1.04
2:NJ:55:GLY:C	2:ES:2:TYR:CD1	2.35	1.04
1:CK:82:ILE:HD13	1:jR:144:THR:HA	1.37	1.04
2:NK:1:MET:SD	2:mR:54:THR:HG21	1.96	1.04
3:AM:116:VAL:O	2:LS:7:MET:CE	1.85	1.04
5:EM:55:LEU:HD22	5:EO:21:ILE:HG23	1.05	1.04
1:IS:62:LEU:CB	1:JS:88:GLU:HB3	1.67	1.04
2:U1:11:MET:CE	1:CJ:372:VAL:HG12	1.86	1.04
3:A2:112:ILE:CD1	2:MD:4:GLY:O	2.05	1.04
5:N2:231:ASN:CG	5:CB:265:LEU:CD2	2.30	1.04
1:K3:47:GLU:HB3	1:I4:20:SER:HB2	1.33	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i4:27:HIS:ND1	1:CD:312:PRO:HD3	1.71	1.04
1:i4:30:SER:O	1:CD:315:ALA:HA	1.56	1.04
3:A5:6:ARG:HE	5:DO:51:ARG:CB	1.70	1.04
3:A5:116:VAL:HA	2:MJ:21:ASN:ND2	1.72	1.04
4:B5:30:LEU:HB2	5:EO:64:TRP:CG	1.92	1.04
5:C5:275:ASN:ND2	5:OI:355:GLN:OE1	1.89	1.04
1:Q8:208:LEU:HD11	1:Q8:391:ILE:HD12	1.05	1.04
1:S8:47:GLU:HB3	1:IG:20:SER:HB2	1.33	1.04
3:AB:151:ASN:H	1:AD:145:LEU:CD1	1.47	1.04
5:NB:231:ASN:CG	5:CF:265:LEU:CD2	2.31	1.04
1:CD:45:MET:HE1	1:YG:14:VAL:CB	1.28	1.04
1:KD:27:HIS:CG	1:IS:312:PRO:CD	2.41	1.04
1:LD:57:LYS:HA	1:KK:58:ILE:CG2	1.88	1.04
1:BE:108:MET:HE1	1:DJ:364:PHE:CZ	1.92	1.04
5:DF:51:ARG:CB	3:AO:6:ARG:HE	1.71	1.04
5:EF:55:LEU:HD22	5:EM:21:ILE:HG23	1.05	1.04
5:EF:64:TRP:CG	4:BO:30:LEU:HB2	1.92	1.04
5:NF:231:ASN:CG	5:CM:265:LEU:CD2	2.30	1.04
5:CH:265:LEU:CD2	5:NN:231:ASN:CG	2.31	1.04
1:LJ:57:LYS:HE3	1:JS:61:THR:HG23	1.34	1.04
1:KK:100:ASP:HA	1:KP:25:PHE:HA	1.31	1.04
1:IL:304:GLN:HB3	1:ZR:103:LYS:HE3	1.36	1.04
1:CR:208:LEU:HD11	1:CR:391:ILE:HD12	1.04	1.04
1:f1:81:PHE:HD2	1:QG:139:ARG:CD	1.70	1.03
4:B2:249:GLN:CB	3:AF:210:SER:CB	2.37	1.03
1:B4:47:GLU:HB3	1:aE:20:SER:HB2	1.33	1.03
1:R4:108:MET:HE1	1:DD:364:PHE:CZ	1.93	1.03
1:i4:30:SER:C	1:CD:315:ALA:HA	1.83	1.03
2:l4:11:MET:HE3	1:DK:372:VAL:HG23	1.38	1.03
3:A5:158:GLU:CD	1:AJ:136:ASN:HB3	1.83	1.03
4:B5:30:LEU:N	5:EO:64:TRP:NE1	2.05	1.03
1:g6:142:PHE:O	1:LP:82:ILE:CG1	2.06	1.03
1:i6:368:GLU:OE2	1:CJ:107:LEU:CD2	2.06	1.03
1:B7:20:SER:HB2	1:DP:47:GLU:H	1.20	1.03
1:B7:27:HIS:C	1:CP:100:ASP:HB2	1.80	1.03
1:g8:142:PHE:O	1:KS:82:ILE:CG1	2.06	1.03
1:g8:302:ASP:CG	1:DD:29:TYR:OH	2.01	1.03
1:g8:367:PRO:HG2	1:KS:375:TRP:CE2	1.92	1.03
1:j8:100:ASP:CB	1:BD:25:PHE:O	2.05	1.03
3:A9:6:ARG:HE	5:DC:51:ARG:CB	1.70	1.03
3:A9:33:ASN:HD22	1:AK:370:ASP:CG	1.59	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B9:30:LEU:N	5:EC:64:TRP:NE1	2.05	1.03
5:E9:64:TRP:NE1	4:BB:30:LEU:N	2.05	1.03
3:AA:210:SER:CB	4:BH:249:GLN:CB	2.37	1.03
5:EB:64:TRP:CG	4:BM:30:LEU:HB2	1.92	1.03
1:DD:119:LYS:NZ	1:KS:38:LYS:HG2	1.71	1.03
1:LD:57:LYS:HA	1:KK:58:ILE:HG21	1.32	1.03
1:LD:317:PHE:CE1	1:YG:29:TYR:HD2	1.61	1.03
1:LD:365:HIS:HD2	2:FK:10:MET:CE	1.71	1.03
2:ND:55:GLY:C	2:FK:2:TYR:CD1	2.35	1.03
1:BE:222:SER:O	1:CP:53:TYR:HE1	1.39	1.03
2:HE:11:MET:HE2	1:CP:372:VAL:CG1	1.88	1.03
4:BF:249:GLN:CB	3:AO:210:SER:CB	2.37	1.03
1:gG:208:LEU:HD11	1:gG:391:ILE:HD12	1.04	1.03
5:CI:265:LEU:CD2	5:NO:231:ASN:CG	2.30	1.03
1:KJ:27:HIS:CG	1:AP:312:PRO:CD	2.41	1.03
1:KJ:53:TYR:CE1	1:AP:223:GLY:CA	2.40	1.03
1:LJ:31:LYS:HD3	1:CS:316:VAL:HG12	1.36	1.03
1:LK:47:GLU:CB	1:KP:22:LEU:HD23	1.82	1.03
3:AO:64:GLN:CG	1:IS:150:ASN:H	1.71	1.03
1:bQ:208:LEU:HD11	1:bQ:391:ILE:HD12	1.04	1.03
3:A2:210:SER:CB	4:BA:249:GLN:CB	2.37	1.03
5:E2:64:TRP:NE1	4:BF:30:LEU:N	2.05	1.03
1:T4:144:THR:HA	1:BS:82:ILE:HD13	1.37	1.03
1:i4:29:TYR:CA	1:LD:98:ASN:HD21	1.70	1.03
3:A5:210:SER:CB	4:BO:249:GLN:CB	2.37	1.03
5:E5:64:TRP:NE1	4:BH:30:LEU:N	2.05	1.03
5:C5:265:LEU:CD2	5:NI:231:ASN:CG	2.30	1.03
1:Q6:302:ASP:CG	1:CS:29:TYR:OH	2.01	1.03
1:Q6:367:PRO:HG2	1:LJ:375:TRP:CE2	1.92	1.03
1:g6:32:SER:OG	1:LP:316:VAL:CG2	2.06	1.03
3:A9:154:ILE:HB	1:AK:145:LEU:HD13	1.39	1.03
4:B9:33:TYR:OH	5:EC:57:GLU:HB3	1.52	1.03
5:D9:51:ARG:CB	3:AB:6:ARG:HE	1.71	1.03
5:E9:21:ILE:HG23	5:EA:55:LEU:HD22	1.05	1.03
4:BC:30:LEU:N	5:EN:64:TRP:NE1	2.05	1.03
1:AD:58:ILE:N	3:AF:154:ILE:HG21	1.73	1.03
1:DD:82:ILE:HD11	1:KS:144:THR:N	1.72	1.03
2:FD:10:MET:CE	1:KS:365:HIS:HD2	1.71	1.03
1:LD:57:LYS:HE3	1:KK:61:THR:HG23	1.34	1.03
1:LD:315:ALA:HB2	1:YG:29:TYR:O	1.59	1.03
1:LD:363:PRO:HG2	2:FK:9:SER:HB3	1.40	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ND:55:GLY:CA	2:FK:2:TYR:CB	2.30	1.03
5:CI:266:THR:HB	5:NO:230:SER:HA	1.08	1.03
1:DJ:316:VAL:HG12	1:LP:31:LYS:HD3	1.36	1.03
1:KJ:58:ILE:CG2	1:LP:57:LYS:HA	1.88	1.03
5:NM:231:ASN:CG	5:CO:265:LEU:CD2	2.30	1.03
3:AO:154:ILE:HA	1:IS:145:LEU:HD21	1.40	1.03
3:A2:112:ILE:HG21	2:MD:5:ASN:OD1	1.58	1.03
2:W4:54:THR:HG21	2:MS:1:MET:SD	1.96	1.03
2:j4:11:MET:CE	1:CD:372:VAL:HG12	1.87	1.03
3:A5:83:TYR:CB	1:AJ:153:LEU:HD12	1.89	1.03
1:g6:57:LYS:HB3	1:CP:143:GLN:HE21	1.21	1.03
3:A9:208:LYS:HB3	4:BC:251:TRP:CD1	1.92	1.03
4:B9:249:GLN:CB	3:AB:210:SER:CB	2.37	1.03
5:DB:51:ARG:CB	3:AM:6:ARG:HE	1.70	1.03
3:AC:208:LYS:HB3	4:BN:251:TRP:CD1	1.92	1.03
5:CC:266:THR:HB	5:NH:230:SER:HA	1.08	1.03
1:BD:261:ILE:HG22	1:BD:265:ASP:OD2	1.55	1.03
1:CD:143:GLN:HE21	1:YG:57:LYS:HB3	1.21	1.03
1:DD:119:LYS:HZ1	1:KS:38:LYS:CG	1.71	1.03
1:LD:31:LYS:HD3	1:DK:316:VAL:HG12	1.36	1.03
1:LD:133:LEU:HG	2:FK:11:MET:CB	1.74	1.03
1:aE:208:LEU:HD11	1:aE:391:ILE:HD12	1.04	1.03
5:CH:266:THR:HB	5:NN:230:SER:HA	1.09	1.03
4:BI:30:LEU:HB2	5:EM:64:TRP:CG	1.92	1.03
1:AJ:110:LYS:NZ	1:AS:106:GLU:OE1	1.89	1.03
1:BJ:106:GLU:OE1	1:AP:110:LYS:NZ	1.89	1.03
1:KJ:80:ASP:CB	3:AN:64:GLN:O	2.05	1.03
1:LK:25:PHE:CZ	1:DP:126:VAL:CG1	2.34	1.03
1:R1:222:SER:O	1:CJ:53:TYR:HE1	1.39	1.03
5:D2:51:ARG:CB	3:AF:6:ARG:HE	1.70	1.03
5:E2:55:LEU:HD22	5:EB:21:ILE:HG23	1.05	1.03
1:Q4:139:ARG:CD	1:IL:81:PHE:HD2	1.70	1.03
1:g4:105:GLU:O	1:BK:109:LEU:CD1	1.94	1.03
1:g4:105:GLU:CA	1:DK:369:PHE:HE2	1.71	1.03
3:A5:149:GLN:OE1	1:AJ:145:LEU:C	2.02	1.03
5:E5:64:TRP:CG	4:BH:30:LEU:HB2	1.92	1.03
1:Q6:32:SER:OG	1:LJ:316:VAL:CG2	2.06	1.03
1:C7:26:ASN:C	1:AK:100:ASP:CG	2.27	1.03
1:C7:304:GLN:HB3	1:hR:103:LYS:HE3	1.36	1.03
1:i8:368:GLU:OE2	1:CD:107:LEU:CD2	2.06	1.03
1:DD:126:VAL:CG1	1:KS:25:PHE:CZ	2.34	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:105:GLU:C	1:DK:109:LEU:CG	2.31	1.03
2:JE:11:MET:HE3	1:DJ:372:VAL:HG23	1.38	1.03
3:AH:150:TYR:O	1:AP:135:ASN:OD1	1.76	1.03
4:BI:30:LEU:N	5:EM:64:TRP:NE1	2.05	1.03
4:BI:249:GLN:CB	3:AN:210:SER:CB	2.37	1.03
1:AJ:223:GLY:CA	1:JS:53:TYR:CE1	2.40	1.03
1:AJ:305:SER:HB3	1:JS:28:ASP:OD2	1.57	1.03
1:AJ:312:PRO:CD	1:JS:27:HIS:CG	2.41	1.03
1:LJ:53:TYR:CD1	1:CS:222:SER:CB	2.38	1.03
1:AK:116:MET:CG	1:KP:51:ASN:ND2	2.20	1.03
1:AK:312:PRO:CD	1:KP:27:HIS:CG	2.41	1.03
2:NK:55:GLY:C	2:FP:2:TYR:CD1	2.35	1.03
1:QL:304:GLN:HB3	1:RR:103:LYS:HE3	1.36	1.03
1:CQ:208:LEU:HD11	1:CQ:391:ILE:HD12	1.04	1.03
1:Q1:304:GLN:HB3	1:R6:103:LYS:HE3	1.36	1.03
1:T1:29:TYR:CA	1:LJ:98:ASN:HD21	1.70	1.03
1:T1:144:THR:N	1:CJ:82:ILE:CD1	2.17	1.03
1:X1:304:GLN:HB3	1:J6:103:LYS:HE3	1.36	1.03
1:Y3:81:PHE:CD2	1:BK:139:ARG:CD	2.31	1.03
5:E5:55:LEU:HD22	5:EN:21:ILE:HG23	1.05	1.03
5:C5:266:THR:HB	5:NI:230:SER:HA	1.08	1.03
1:Q6:208:LEU:HD11	1:Q6:391:ILE:HD12	1.04	1.03
1:T6:100:ASP:CB	1:AS:25:PHE:O	2.05	1.03
1:Y6:208:LEU:HD11	1:Y6:391:ILE:HD12	1.04	1.03
1:g6:21:ALA:H	1:CP:47:GLU:CG	1.63	1.03
1:B7:20:SER:HB2	1:DP:47:GLU:N	1.71	1.03
1:g8:80:ASP:OD2	1:DD:145:LEU:HD23	1.57	1.03
3:AA:112:ILE:HD12	2:MK:16:GLU:CG	1.89	1.03
1:DD:109:LEU:CG	1:JS:105:GLU:C	2.31	1.03
1:LD:58:ILE:HG23	1:KK:55:PHE:HE2	1.16	1.03
2:GE:2:TYR:HE2	1:BP:157:LYS:NZ	1.52	1.03
1:AE:208:LEU:HD11	1:AE:391:ILE:HD12	1.04	1.03
2:JE:54:THR:HG21	2:NP:1:MET:SD	1.96	1.03
1:YG:302:ASP:CG	1:DK:29:TYR:OH	2.01	1.03
1:aG:368:GLU:OE2	1:CK:107:LEU:CD2	2.06	1.03
3:AI:6:ARG:HE	5:DM:51:ARG:CB	1.70	1.03
1:BJ:261:ILE:HG22	1:BJ:265:ASP:OD2	1.55	1.03
1:DJ:109:LEU:CG	1:KP:105:GLU:C	2.31	1.03
1:LJ:28:ASP:HB3	1:CS:304:GLN:NE2	1.70	1.03
1:LJ:57:LYS:HA	1:JS:58:ILE:CG2	1.88	1.03
1:LJ:368:GLU:HA	1:CS:375:TRP:CG	1.72	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:82:ILE:CG1	1:KP:143:GLN:CA	2.35	1.03
1:B1:255:ILE:HG23	1:B1:261:ILE:HD12	1.41	1.02
1:I1:372:VAL:CG1	2:PQ:11:MET:CG	2.37	1.02
3:A2:154:ILE:HG21	1:AK:54:LEU:CB	1.87	1.02
4:B2:30:LEU:N	5:EA:64:TRP:NE1	2.05	1.02
2:H3:11:MET:CG	1:C8:372:VAL:CG1	2.37	1.02
2:e4:11:MET:CG	1:bQ:372:VAL:CG1	2.38	1.02
1:B6:255:ILE:HG23	1:B6:261:ILE:HD12	1.41	1.02
1:D7:100:ASP:CB	1:BP:25:PHE:O	2.05	1.02
1:I8:208:LEU:HD11	1:I8:391:ILE:HD12	1.04	1.02
1:g8:29:TYR:O	1:KS:315:ALA:HB2	1.59	1.02
5:CC:265:LEU:CD2	5:NH:231:ASN:CG	2.30	1.02
1:AD:305:SER:HB3	1:KK:28:ASP:OD2	1.57	1.02
1:KD:45:MET:CA	1:KS:14:VAL:O	2.07	1.02
1:LD:14:VAL:O	1:KK:45:MET:CA	2.07	1.02
1:aE:81:PHE:HD2	1:CG:139:ARG:CD	1.70	1.02
5:EF:57:GLU:HB3	4:BO:33:TYR:OH	1.52	1.02
5:EF:64:TRP:NE1	4:BO:30:LEU:N	2.05	1.02
1:YG:208:LEU:HD11	1:YG:391:ILE:HD12	1.04	1.02
2:fG:11:MET:CG	1:gG:372:VAL:CG1	2.38	1.02
4:BI:251:TRP:CD1	3:AN:208:LYS:HB3	1.92	1.02
1:CK:372:VAL:CG1	2:kR:11:MET:HE2	1.88	1.02
1:LK:22:LEU:HD22	1:KP:47:GLU:OE1	1.53	1.02
1:LK:31:LYS:HD3	1:DP:316:VAL:HG12	1.36	1.02
1:YL:208:LEU:HD11	1:YL:391:ILE:HD12	1.04	1.02
2:XQ:11:MET:CG	1:QR:372:VAL:CG1	2.37	1.02
1:QR:208:LEU:HD11	1:QR:391:ILE:HD12	1.04	1.02
1:YR:208:LEU:HD11	1:YR:391:ILE:HD12	1.04	1.02
1:C1:38:LYS:CD	1:bQ:222:SER:HA	1.90	1.02
1:I3:63:LEU:HD13	1:R8:89:TYR:CE2	1.95	1.02
1:J3:89:TYR:CE2	1:Q8:63:LEU:HD13	1.95	1.02
1:C4:81:PHE:HD2	1:aE:139:ARG:CD	1.70	1.02
1:R4:103:LYS:HE3	1:g8:304:GLN:HB3	1.36	1.02
1:R4:105:GLU:CA	1:DD:369:PHE:HE2	1.71	1.02
1:X4:208:LEU:HD11	1:X4:391:ILE:HD12	1.04	1.02
2:l4:54:THR:HG21	2:ND:1:MET:SD	1.96	1.02
1:C6:38:LYS:CD	1:gG:222:SER:HA	1.90	1.02
1:C7:142:PHE:O	1:LK:82:ILE:CG1	2.06	1.02
1:I7:63:LEU:HD13	1:cQ:89:TYR:CE2	1.95	1.02
1:Q7:208:LEU:HD11	1:Q7:391:ILE:HD12	1.04	1.02
1:Y7:38:LYS:CD	1:QQ:222:SER:HA	1.90	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P8:11:MET:CG	1:CR:372:VAL:CG1	2.37	1.02
1:g8:26:ASN:C	1:IS:100:ASP:CG	2.27	1.02
1:g8:57:LYS:HB3	1:BS:143:GLN:HE21	1.21	1.02
3:AA:115:ILE:HG13	2:MK:7:MET:CE	1.89	1.02
5:CA:266:THR:HB	5:NC:230:SER:HA	1.09	1.02
5:EB:55:LEU:HD22	5:EF:21:ILE:HG23	1.05	1.02
5:EB:57:GLU:HB3	4:BM:33:TYR:CZ	1.73	1.02
1:AD:223:GLY:CA	1:KK:53:TYR:CE1	2.40	1.02
1:AD:312:PRO:CD	1:KK:27:HIS:CG	2.41	1.02
1:KD:365:HIS:HD2	1:IS:361:LYS:HE2	1.00	1.02
1:LD:316:VAL:CG2	1:YG:32:SER:OG	2.06	1.02
1:LD:368:GLU:CA	1:DK:375:TRP:CG	2.40	1.02
1:bE:89:TYR:CE2	1:CR:63:LEU:HD13	1.95	1.02
1:hG:89:TYR:CE2	1:CL:63:LEU:HD13	1.95	1.02
5:EI:57:GLU:HB3	4:BN:33:TYR:OH	1.52	1.02
2:FJ:9:SER:HB3	1:LP:363:PRO:HG2	1.40	1.02
1:LJ:14:VAL:O	1:JS:45:MET:CA	2.07	1.02
1:KK:105:GLU:C	1:DP:109:LEU:CG	2.31	1.02
1:LK:45:MET:N	1:KP:14:VAL:CG2	2.07	1.02
1:DP:364:PHE:CZ	1:hR:108:MET:HE1	1.93	1.02
1:DP:369:PHE:HE2	1:hR:105:GLU:CA	1.71	1.02
1:SQ:255:ILE:HG23	1:SQ:261:ILE:HD12	1.41	1.02
1:I1:38:LYS:CD	1:SE:222:SER:HA	1.90	1.02
1:I1:63:LEU:HD13	1:JG:89:TYR:CE2	1.95	1.02
1:J1:89:TYR:CE2	1:IG:63:LEU:HD13	1.95	1.02
1:T1:30:SER:C	1:CJ:315:ALA:HA	1.83	1.02
1:g1:89:TYR:CE2	1:CQ:63:LEU:HD13	1.95	1.02
1:C3:372:VAL:CG1	2:H4:11:MET:CG	2.37	1.02
1:I3:372:VAL:CG1	2:XR:11:MET:CG	2.38	1.02
1:Q3:63:LEU:HD13	1:J8:89:TYR:CE2	1.95	1.02
1:I4:63:LEU:HD13	1:A8:89:TYR:CE2	1.95	1.02
1:J4:89:TYR:CE2	1:C8:63:LEU:HD13	1.95	1.02
2:P4:11:MET:CG	1:AE:372:VAL:CG1	2.37	1.02
1:Q4:372:VAL:CG1	2:fR:11:MET:CG	2.38	1.02
2:j4:11:MET:HE2	1:CD:372:VAL:CG1	1.88	1.02
3:A5:116:VAL:HG12	2:MJ:21:ASN:HD22	1.00	1.02
1:I6:38:LYS:CD	1:YR:222:SER:HA	1.90	1.02
1:Q6:14:VAL:CB	1:CJ:45:MET:CE	1.81	1.02
2:X6:11:MET:CG	1:Q8:372:VAL:CG1	2.38	1.02
1:Y6:372:VAL:CG1	2:PG:11:MET:CG	2.37	1.02
1:g6:26:ASN:C	1:AP:100:ASP:CG	2.27	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:89:TYR:CE2	1:gR:63:LEU:HD13	1.95	1.02
1:g7:222:SER:HA	1:C8:38:LYS:CD	1.90	1.02
2:n8:11:MET:CG	1:IQ:372:VAL:CG1	2.37	1.02
4:BA:30:LEU:N	5:EH:64:TRP:NE1	2.05	1.02
3:AC:210:SER:CB	4:BN:249:GLN:CB	2.37	1.02
1:LD:53:TYR:CD1	1:DK:222:SER:CB	2.38	1.02
1:KE:208:LEU:HD11	1:KE:391:ILE:HD12	1.04	1.02
3:AI:7:GLY:N	5:DM:24:THR:HA	1.60	1.02
4:BI:33:TYR:HE1	5:EM:57:GLU:CB	1.73	1.02
1:KJ:78:GLU:CG	3:AN:81:LEU:HD11	1.89	1.02
1:LK:365:HIS:HD2	2:FP:10:MET:CE	1.71	1.02
3:AM:114:PHE:CE1	2:LS:13:THR:N	2.23	1.02
1:CQ:222:SER:HA	1:gR:38:LYS:CD	1.90	1.02
1:C1:372:VAL:CG1	2:P7:11:MET:CG	2.38	1.02
2:H1:11:MET:CG	1:f4:372:VAL:CG1	2.37	1.02
1:I1:208:LEU:HD11	1:I1:391:ILE:HD12	1.04	1.02
1:I1:222:SER:HA	1:Y6:38:LYS:CD	1.90	1.02
1:R1:105:GLU:CA	1:CS:369:PHE:HE2	1.71	1.02
1:Y1:89:TYR:CE2	1:I6:63:LEU:HD13	1.95	1.02
1:f1:208:LEU:HD11	1:f1:391:ILE:HD12	1.04	1.02
1:f1:372:VAL:CG1	2:n7:11:MET:CG	2.38	1.02
1:C4:304:GLN:HB3	1:RG:103:LYS:HE3	1.36	1.02
1:C4:372:VAL:CG1	2:fL:11:MET:CG	2.38	1.02
1:A4:89:TYR:CE2	1:QG:63:LEU:HD13	1.95	1.02
1:R4:105:GLU:O	1:BD:109:LEU:CD1	1.94	1.02
1:R4:222:SER:HA	1:BS:38:LYS:HE2	1.02	1.02
2:U4:11:MET:HE2	1:BS:372:VAL:CG1	1.88	1.02
1:X4:38:LYS:CD	1:CR:222:SER:HA	1.90	1.02
1:i4:374:HIS:NE2	2:HD:8:ARG:NH1	2.02	1.02
5:C5:266:THR:CB	5:NI:230:SER:HA	1.90	1.02
1:C6:372:VAL:CG1	2:HL:11:MET:CG	2.38	1.02
2:H6:11:MET:CG	1:Y8:372:VAL:CG1	2.37	1.02
1:I6:222:SER:HA	1:CL:38:LYS:CD	1.90	1.02
1:Q6:302:ASP:OD2	1:CS:29:TYR:CZ	2.12	1.02
1:C7:302:ASP:OD2	1:DP:29:TYR:CZ	2.12	1.02
1:B7:368:GLU:OE2	1:CP:107:LEU:CD2	2.06	1.02
1:I7:38:LYS:CD	1:gR:222:SER:HA	1.90	1.02
1:Q7:63:LEU:HD13	1:RQ:89:TYR:CE2	1.95	1.02
1:R7:89:TYR:CE2	1:QQ:63:LEU:HD13	1.95	1.02
2:X7:11:MET:CG	1:Y7:372:VAL:CG1	2.38	1.02
1:Y7:208:LEU:HD11	1:Y7:391:ILE:HD12	1.05	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C8:222:SER:HA	1:AE:38:LYS:CD	1.90	1.02
1:Y8:222:SER:HA	1:bQ:38:LYS:CD	1.90	1.02
3:A9:151:ASN:N	1:AK:144:THR:HG22	1.73	1.02
3:AA:208:LYS:HB3	4:BH:251:TRP:CD1	1.92	1.02
3:AB:116:VAL:HA	2:MD:19:ARG:CB	1.90	1.02
5:CC:266:THR:CB	5:NH:230:SER:HA	1.90	1.02
2:FD:2:TYR:HD2	1:KS:153:LEU:HD11	1.25	1.02
1:LD:82:ILE:CG1	1:YG:142:PHE:O	2.06	1.02
1:CE:255:ILE:HG23	1:CE:261:ILE:HD12	1.41	1.02
2:ZE:11:MET:CG	1:IL:372:VAL:CG1	2.38	1.02
1:CG:63:LEU:HD13	1:ZL:89:TYR:CE2	1.95	1.02
1:QG:372:VAL:CG1	2:HQ:11:MET:CG	2.38	1.02
1:YG:302:ASP:OD2	1:DK:29:TYR:CZ	2.12	1.02
1:aG:14:VAL:HB	1:DK:14:VAL:HG11	1.42	1.02
3:AI:210:SER:CB	4:BM:249:GLN:CB	2.37	1.02
2:FJ:10:MET:CE	1:LP:365:HIS:HD2	1.71	1.02
1:KJ:143:GLN:CA	1:AP:82:ILE:CG1	2.35	1.02
1:LJ:365:HIS:HD2	2:ES:10:MET:HE2	0.85	1.02
1:CK:315:ALA:HA	1:jR:30:SER:C	1.84	1.02
1:JL:89:TYR:CE2	1:YR:63:LEU:HD13	1.95	1.02
1:C1:208:LEU:HD11	1:C1:391:ILE:HD12	1.05	1.02
2:U1:11:MET:HE2	1:CJ:372:VAL:CG1	1.88	1.02
1:X1:81:PHE:HD2	1:IR:139:ARG:CD	1.70	1.02
2:e1:11:MET:CG	1:CL:372:VAL:CG1	2.37	1.02
5:C2:265:LEU:CD2	5:N9:231:ASN:CG	2.31	1.02
1:Q3:208:LEU:HD11	1:Q3:391:ILE:HD12	1.04	1.02
1:C4:63:LEU:HD13	1:RG:89:TYR:CE2	1.95	1.02
1:Q4:63:LEU:HD13	1:h8:89:TYR:CE2	1.95	1.02
1:R4:89:TYR:CE2	1:g8:63:LEU:HD13	1.95	1.02
1:f4:222:SER:HA	1:gG:38:LYS:CD	1.90	1.02
1:a6:255:ILE:HG23	1:a6:261:ILE:HD12	1.41	1.02
2:f6:11:MET:CG	1:QQ:372:VAL:CG1	2.38	1.02
1:g6:208:LEU:HD11	1:g6:391:ILE:HD12	1.04	1.02
1:g6:367:PRO:HG2	1:LP:375:TRP:CZ3	1.74	1.02
1:C7:32:SER:OG	1:LK:316:VAL:CG2	2.06	1.02
2:H7:11:MET:CG	1:I7:372:VAL:CG1	2.37	1.02
1:Q7:371:GLU:OE1	1:RQ:111:ARG:HD3	1.60	1.02
1:Y7:139:ARG:CD	1:QQ:81:PHE:HD2	1.70	1.02
1:C8:208:LEU:HD11	1:C8:391:ILE:HD12	1.04	1.02
4:BA:33:TYR:OH	5:EH:57:GLU:HB3	1.52	1.02
5:EB:57:GLU:HB3	4:BM:33:TYR:OH	1.52	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:82:ILE:HD13	1:KK:144:THR:O	1.59	1.02
1:aE:372:VAL:CG1	2:XG:11:MET:CG	2.37	1.02
1:hG:103:LYS:HE3	1:CL:304:GLN:HB3	1.36	1.02
5:EI:21:ILE:HG23	5:EO:55:LEU:HD22	1.05	1.02
5:CI:266:THR:CB	5:NO:230:SER:HA	1.90	1.02
1:AJ:82:ILE:HD13	1:JS:144:THR:O	1.59	1.02
1:DJ:82:ILE:HD11	1:LP:144:THR:N	1.72	1.02
1:DJ:174:MET:HA	1:LP:33:TRP:CE2	1.94	1.02
1:KJ:105:GLU:C	1:CS:109:LEU:CG	2.31	1.02
1:LJ:133:LEU:HG	2:ES:11:MET:CB	1.74	1.02
1:LK:45:MET:CB	1:KP:14:VAL:CG2	2.27	1.02
1:LK:57:LYS:HA	1:KP:58:ILE:CG2	1.88	1.02
1:LK:363:PRO:HG2	2:FP:9:SER:HB3	1.40	1.02
1:BL:255:ILE:HG23	1:BL:261:ILE:HD12	1.41	1.02
1:IL:208:LEU:HD11	1:IL:391:ILE:HD12	1.04	1.02
5:NM:230:SER:HA	5:CO:266:THR:CB	1.90	1.02
1:KQ:255:ILE:HG23	1:KQ:261:ILE:HD12	1.41	1.02
1:C1:46:PHE:HD1	1:A6:85:TYR:HH	1.05	1.01
1:f1:222:SER:HA	1:QG:38:LYS:CD	1.90	1.01
3:A2:233:GLU:OE1	3:AB:228:ILE:CD1	2.08	1.01
4:B2:33:TYR:OH	5:EA:57:GLU:HA	1.60	1.01
5:E2:57:GLU:HA	4:BF:33:TYR:OH	1.60	1.01
1:C3:38:LYS:CD	1:QG:222:SER:HA	1.90	1.01
1:B3:255:ILE:HG23	1:B3:261:ILE:HD12	1.41	1.01
1:Q4:38:LYS:CD	1:IL:222:SER:HA	1.90	1.01
1:Y4:111:ARG:HD3	1:Y8:371:GLU:OE1	1.60	1.01
1:f4:63:LEU:HD13	1:ZG:89:TYR:CE2	1.95	1.01
4:B5:249:GLN:CB	3:AH:210:SER:CB	2.37	1.01
1:C6:208:LEU:HD11	1:C6:391:ILE:HD12	1.05	1.01
1:Q6:25:PHE:O	1:AJ:100:ASP:HA	1.60	1.01
1:g6:30:SER:CA	1:LP:315:ALA:HA	1.90	1.01
1:g6:302:ASP:CG	1:DJ:29:TYR:OH	2.01	1.01
1:i6:20:SER:HB2	1:DJ:47:GLU:H	1.20	1.01
1:K7:255:ILE:HG23	1:K7:261:ILE:HD12	1.41	1.01
1:Y7:63:LEU:HD13	1:JR:89:TYR:CE2	1.95	1.01
2:f7:11:MET:CG	1:I8:372:VAL:CG1	2.37	1.01
1:g8:21:ALA:H	1:BS:47:GLU:CG	1.63	1.01
5:C9:266:THR:CB	5:NA:230:SER:HA	1.90	1.01
3:AB:83:TYR:O	1:AD:156:TYR:OH	1.78	1.01
3:AC:114:PHE:HA	2:MP:51:GLN:CD	1.85	1.01
3:AC:114:PHE:CD1	2:MP:51:GLN:CB	2.36	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:228:ILE:CD1	3:AH:233:GLU:OE1	2.08	1.01
1:AD:59:ASN:ND2	1:AD:143:GLN:OE1	1.93	1.01
1:DD:304:GLN:NE2	1:KS:28:ASP:HB3	1.70	1.01
1:LD:45:MET:CB	1:KK:14:VAL:CG2	2.27	1.01
1:BE:105:GLU:CA	1:DJ:369:PHE:HE2	1.71	1.01
1:BE:222:SER:HA	1:CP:38:LYS:HE2	1.02	1.01
1:FE:144:THR:N	1:CP:82:ILE:CD1	2.17	1.01
1:SG:255:ILE:HG23	1:SG:261:ILE:HD12	1.41	1.01
5:EH:21:ILE:HG23	5:EN:55:LEU:HD22	1.05	1.01
5:CH:266:THR:CB	5:NN:230:SER:HA	1.90	1.01
1:DJ:222:SER:OG	1:LP:39:TRP:O	1.77	1.01
1:DJ:375:TRP:CG	1:LP:368:GLU:CA	2.40	1.01
1:LJ:45:MET:CG	1:JS:19:LYS:HE2	1.87	1.01
1:AK:59:ASN:ND2	1:AK:143:GLN:OE1	1.93	1.01
1:LK:14:VAL:O	1:KP:45:MET:CA	2.07	1.01
1:LK:33:TRP:CE2	1:DP:174:MET:HA	1.94	1.01
1:QL:63:LEU:HD13	1:RR:89:TYR:CE2	1.95	1.01
1:C1:222:SER:HA	1:Y8:38:LYS:CD	1.90	1.01
1:Q1:63:LEU:HD13	1:R6:89:TYR:CE2	1.95	1.01
1:Q1:371:GLU:OE1	1:R6:111:ARG:HD3	1.60	1.01
1:R1:105:GLU:HB3	1:AS:109:LEU:CD1	1.90	1.01
1:X1:38:LYS:CD	1:I8:222:SER:HA	1.90	1.01
1:X1:208:LEU:HD11	1:X1:391:ILE:HD12	1.04	1.01
1:X1:222:SER:HA	1:IR:38:LYS:CD	1.90	1.01
4:B2:251:TRP:CD1	3:AF:208:LYS:HB3	1.92	1.01
1:A3:111:ARG:HD3	1:g7:371:GLU:OE1	1.60	1.01
2:P3:11:MET:CG	1:IG:372:VAL:CG1	2.37	1.01
1:Q3:38:LYS:CD	1:X4:222:SER:HA	1.90	1.01
1:R3:89:TYR:CE2	1:I8:63:LEU:HD13	1.95	1.01
1:Q4:222:SER:HA	1:IQ:38:LYS:CD	1.90	1.01
1:S4:255:ILE:HG23	1:S4:261:ILE:HD12	1.41	1.01
1:Y4:89:TYR:CE2	1:Y8:63:LEU:HD13	1.95	1.01
1:f4:38:LYS:CD	1:C6:222:SER:HA	1.90	1.01
1:f4:371:GLU:OE1	1:ZG:111:ARG:HD3	1.60	1.01
4:B5:33:TYR:OH	5:EO:57:GLU:HB3	1.52	1.01
5:N5:230:SER:HA	5:CN:266:THR:CB	1.90	1.01
1:Q6:27:HIS:CD2	1:LJ:312:PRO:HB3	1.95	1.01
1:Z6:89:TYR:CE2	1:KE:63:LEU:HD13	1.95	1.01
1:g6:27:HIS:CD2	1:LP:312:PRO:HB3	1.96	1.01
1:g6:63:LEU:HD13	1:BE:89:TYR:CE2	1.95	1.01
1:B7:14:VAL:HB	1:DP:14:VAL:HG11	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I7:222:SER:HA	1:CQ:38:LYS:CD	1.90	1.01
1:I7:304:GLN:HB3	1:cQ:103:LYS:HE3	1.36	1.01
1:I8:139:ARG:CD	1:IR:81:PHE:HD2	1.70	1.01
3:A9:210:SER:CB	4:BC:249:GLN:CB	2.37	1.01
3:AA:113:TYR:CD2	2:MK:7:MET:SD	2.54	1.01
1:AD:140:PHE:HD1	3:AF:29:ARG:HE	1.02	1.01
1:AD:223:GLY:CA	1:KK:53:TYR:CD1	2.43	1.01
1:KD:49:PHE:CA	1:KS:22:LEU:HD11	1.90	1.01
1:SE:63:LEU:HD13	1:JQ:89:TYR:CE2	1.95	1.01
1:SE:371:GLU:OE1	1:JQ:111:ARG:HD3	1.60	1.01
1:AG:89:TYR:CE2	1:YL:63:LEU:HD13	1.95	1.01
3:AH:228:ILE:CD1	3:AN:233:GLU:OE1	2.08	1.01
1:DJ:109:LEU:HG	1:KP:106:GLU:N	1.71	1.01
1:KJ:133:LEU:CB	2:MP:11:MET:SD	2.48	1.01
1:LJ:365:HIS:HD2	2:ES:10:MET:CE	1.72	1.01
1:LK:108:MET:CE	1:jR:366:ASN:HA	1.91	1.01
1:IL:38:LYS:CD	1:IQ:222:SER:HA	1.90	1.01
1:QL:371:GLU:OE1	1:RR:111:ARG:HD3	1.60	1.01
1:KR:255:ILE:HG23	1:KR:261:ILE:HD12	1.41	1.01
1:C1:38:LYS:HD2	1:bQ:222:SER:HA	1.43	1.01
1:C1:81:PHE:HD2	1:Y8:139:ARG:CD	1.70	1.01
1:C1:371:GLU:OE1	1:A6:111:ARG:HD3	1.60	1.01
1:A1:111:ARG:HD3	1:C6:371:GLU:OE1	1.60	1.01
1:f1:38:LYS:CD	1:C3:222:SER:HA	1.90	1.01
1:f1:38:LYS:HD2	1:C3:222:SER:HA	1.43	1.01
1:g1:111:ARG:HD3	1:CQ:371:GLU:OE1	1.60	1.01
3:A2:228:ILE:CD1	3:A9:233:GLU:OE1	2.08	1.01
1:A3:89:TYR:CE2	1:g7:63:LEU:HD13	1.95	1.01
1:Q3:372:VAL:CG1	2:f8:11:MET:CG	2.37	1.01
1:C4:38:LYS:CD	1:CG:222:SER:HA	1.90	1.01
1:C4:222:SER:HA	1:aE:38:LYS:CD	1.90	1.01
1:I4:372:VAL:CG1	2:X8:11:MET:CG	2.37	1.01
1:h4:255:ILE:HG23	1:h4:261:ILE:HD12	1.41	1.01
5:D5:24:THR:HA	3:AH:7:GLY:N	1.61	1.01
1:C6:38:LYS:HD2	1:gG:222:SER:HA	1.43	1.01
1:g6:302:ASP:OD2	1:DJ:29:TYR:CZ	2.12	1.01
2:n6:11:MET:CG	1:g7:372:VAL:CG1	2.37	1.01
1:C7:208:LEU:HD11	1:C7:391:ILE:HD12	1.04	1.01
1:S7:255:ILE:HG23	1:S7:261:ILE:HD12	1.41	1.01
1:a8:255:ILE:HG23	1:a8:261:ILE:HD12	1.41	1.01
1:i8:27:HIS:C	1:CD:100:ASP:HB2	1.80	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i8:255:ILE:HG23	1:i8:261:ILE:HD12	1.41	1.01
4:B9:33:TYR:OH	5:EC:57:GLU:HA	1.60	1.01
3:AA:228:ILE:CD1	3:AC:233:GLU:OE1	2.08	1.01
1:AD:120:LEU:HD11	1:KK:55:PHE:HD1	1.23	1.01
1:KD:144:THR:O	1:IS:82:ILE:HD13	1.59	1.01
1:LD:58:ILE:HG23	1:KK:55:PHE:CE2	1.92	1.01
1:FE:30:SER:C	1:CP:315:ALA:HA	1.84	1.01
2:RE:11:MET:CG	1:SE:372:VAL:CG1	2.37	1.01
5:NF:230:SER:HA	5:CM:266:THR:CB	1.90	1.01
1:IG:208:LEU:HD11	1:IG:391:ILE:HD12	1.04	1.01
2:nG:11:MET:CG	1:YR:372:VAL:CG1	2.37	1.01
2:FJ:10:MET:HE2	1:LP:365:HIS:HD2	0.85	1.01
1:KJ:45:MET:CA	1:LP:14:VAL:O	2.07	1.01
1:KJ:144:THR:O	1:AP:82:ILE:HD13	1.59	1.01
1:LJ:38:LYS:HG2	1:CS:119:LYS:NZ	1.71	1.01
1:LJ:47:GLU:CD	1:JS:22:LEU:H	1.57	1.01
1:CL:222:SER:HA	1:YR:38:LYS:CD	1.90	1.01
1:IL:38:LYS:HD2	1:IQ:222:SER:HA	1.43	1.01
3:AO:66:ILE:CA	2:LS:54:THR:CG2	2.38	1.01
1:R1:316:VAL:HG23	1:CJ:31:LYS:CE	1.90	1.01
1:S1:255:ILE:HG23	1:S1:261:ILE:HD12	1.41	1.01
5:N2:230:SER:HA	5:CB:266:THR:CB	1.90	1.01
1:C3:63:LEU:HD13	1:h7:89:TYR:CE2	1.95	1.01
1:S3:255:ILE:HG23	1:S3:261:ILE:HD12	1.41	1.01
1:A4:111:ARG:HD3	1:QG:371:GLU:OE1	1.60	1.01
1:B4:255:ILE:HG23	1:B4:261:ILE:HD12	1.41	1.01
1:I4:208:LEU:HD11	1:I4:391:ILE:HD12	1.04	1.01
1:I4:222:SER:HA	1:QL:38:LYS:CD	1.90	1.01
1:Q4:371:GLU:OE1	1:h8:111:ARG:HD3	1.60	1.01
1:X4:63:LEU:HD13	1:Z8:89:TYR:CE2	1.95	1.01
1:X4:139:ARG:CD	1:CR:81:PHE:HD2	1.70	1.01
1:f4:139:ARG:CD	1:C6:81:PHE:HD2	1.70	1.01
1:g4:89:TYR:CE2	1:YG:63:LEU:HD13	1.95	1.01
1:I6:222:SER:HA	1:CL:38:LYS:HD2	1.43	1.01
1:Q6:29:TYR:O	1:LJ:315:ALA:HB2	1.59	1.01
1:Q6:58:ILE:HD12	1:CJ:55:PHE:CG	1.96	1.01
1:Q6:142:PHE:O	1:LJ:82:ILE:CG1	2.07	1.01
1:C7:29:TYR:O	1:LK:315:ALA:HB2	1.59	1.01
1:C7:54:LEU:HA	1:LK:118:THR:CG2	1.91	1.01
1:I7:38:LYS:HD2	1:gR:222:SER:HA	1.43	1.01
1:I7:208:LEU:HD11	1:I7:391:ILE:HD12	1.04	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J7:111:ARG:HD3	1:bQ:371:GLU:OE1	1.60	1.01
1:Q7:372:VAL:CG1	2:HG:11:MET:CG	2.37	1.01
1:Y7:38:LYS:HD2	1:QQ:222:SER:HA	1.43	1.01
1:Y7:222:SER:HA	1:KE:38:LYS:CD	1.90	1.01
1:Q8:222:SER:HA	1:IG:38:LYS:CD	1.90	1.01
3:A9:151:ASN:HA	1:AK:144:THR:CG2	1.89	1.01
3:AA:114:PHE:CD1	2:MK:8:ARG:HB3	1.81	1.01
3:AB:233:GLU:OE1	3:AF:228:ILE:CD1	2.08	1.01
4:BB:249:GLN:CB	3:AM:210:SER:CB	2.37	1.01
5:NB:230:SER:HA	5:CF:266:THR:CB	1.90	1.01
1:DD:174:MET:HA	1:KS:33:TRP:CE2	1.94	1.01
1:LD:315:ALA:HA	1:YG:30:SER:CA	1.90	1.01
1:LD:369:PHE:CE2	1:BK:105:GLU:HA	1.96	1.01
1:aE:222:SER:HA	1:CG:38:LYS:CD	1.90	1.01
1:CG:371:GLU:OE1	1:ZL:111:ARG:HD3	1.60	1.01
1:gG:371:GLU:OE1	1:AL:111:ARG:HD3	1.60	1.01
1:iG:255:ILE:HG23	1:iG:261:ILE:HD12	1.41	1.01
1:KJ:53:TYR:CD1	1:AP:223:GLY:CA	2.43	1.01
1:AK:82:ILE:HD13	1:KP:144:THR:O	1.59	1.01
1:LK:22:LEU:HD11	1:KP:49:PHE:CA	1.90	1.01
1:JL:111:ARG:HD3	1:YR:371:GLU:OE1	1.60	1.01
2:XL:11:MET:CG	1:YL:372:VAL:CG1	2.37	1.01
1:BP:109:LEU:CD1	1:hR:105:GLU:HB3	1.90	1.01
1:CQ:372:VAL:CG1	2:iQ:11:MET:CG	2.37	1.01
1:dQ:255:ILE:HG23	1:dQ:261:ILE:HD12	1.41	1.01
1:A1:89:TYR:CE2	1:C6:63:LEU:HD13	1.95	1.01
1:Q1:139:ARG:CD	1:IG:81:PHE:HD2	1.70	1.01
1:T1:51:ASN:CG	1:CJ:116:MET:HE3	1.86	1.01
1:X1:38:LYS:HD2	1:I8:222:SER:HA	1.43	1.01
1:Y1:111:ARG:HD3	1:I6:371:GLU:OE1	1.60	1.01
1:Z1:255:ILE:HG23	1:Z1:261:ILE:HD12	1.41	1.01
5:E2:21:ILE:HG23	5:E9:55:LEU:HD22	1.05	1.01
5:C2:266:THR:CB	5:N9:230:SER:HA	1.90	1.01
1:I3:222:SER:HA	1:I4:38:LYS:CD	1.90	1.01
1:Q3:222:SER:HA	1:CR:38:LYS:CD	1.90	1.01
1:I4:371:GLU:OE1	1:A8:111:ARG:HD3	1.60	1.01
1:X4:38:LYS:HD2	1:CR:222:SER:HA	1.43	1.01
1:f4:81:PHE:HD2	1:gG:139:ARG:CD	1.70	1.01
1:f4:208:LEU:HD11	1:f4:391:ILE:HD12	1.04	1.01
1:i4:51:ASN:CG	1:CD:116:MET:HE3	1.86	1.01
1:i4:366:ASN:HA	1:LD:108:MET:CE	1.91	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P6:11:MET:CG	1:IR:372:VAL:CG1	2.38	1.01
1:Q6:26:ASN:C	1:AJ:100:ASP:CG	2.27	1.01
1:S6:368:GLU:OE2	1:BS:107:LEU:CD2	2.07	1.01
1:g6:29:TYR:O	1:LP:315:ALA:HB2	1.59	1.01
1:B7:144:THR:CA	1:BP:82:ILE:HD13	1.70	1.01
1:Y8:81:PHE:HD2	1:bQ:139:ARG:CD	1.70	1.01
1:g8:27:HIS:CD2	1:KS:312:PRO:HB3	1.96	1.01
1:g8:54:LEU:HA	1:KS:118:THR:CG2	1.91	1.01
3:AA:107:LEU:HG	2:MK:19:ARG:NH2	1.46	1.01
5:EB:57:GLU:HA	4:BM:33:TYR:OH	1.60	1.01
1:CD:55:PHE:CD2	1:YG:58:ILE:CD1	2.44	1.01
1:DD:375:TRP:CG	1:KS:368:GLU:CA	2.40	1.01
2:FD:9:SER:HB3	1:KS:363:PRO:HG2	1.40	1.01
2:MD:51:GLN:CG	3:AF:114:PHE:HZ	1.74	1.01
1:BE:316:VAL:HG23	1:CP:31:LYS:CE	1.90	1.01
1:FE:30:SER:O	1:CP:315:ALA:HA	1.56	1.01
1:TE:89:TYR:CE2	1:IQ:63:LEU:HD13	1.95	1.01
5:EF:57:GLU:HA	4:BO:33:TYR:OH	1.60	1.01
1:CG:372:VAL:CG1	2:HR:11:MET:CG	2.38	1.01
1:YG:310:THR:CG2	1:DK:27:HIS:CE1	2.44	1.01
1:AJ:82:ILE:CG1	1:JS:143:GLN:CA	2.35	1.01
1:KJ:55:PHE:CE2	1:LP:58:ILE:HG23	1.92	1.01
1:LJ:39:TRP:O	1:CS:222:SER:OG	1.78	1.01
1:KK:106:GLU:N	1:DP:109:LEU:HG	1.71	1.01
1:IL:63:LEU:HD13	1:ZR:89:TYR:CE2	1.95	1.01
1:SL:255:ILE:HG23	1:SL:261:ILE:HD12	1.41	1.01
1:AP:59:ASN:ND2	1:AP:143:GLN:OE1	1.93	1.01
1:IR:208:LEU:HD11	1:IR:391:ILE:HD12	1.05	1.01
1:C1:63:LEU:HD13	1:A6:89:TYR:CE2	1.95	1.00
1:A1:85:TYR:HH	1:C6:46:PHE:HD1	1.06	1.00
1:J1:111:ARG:HD3	1:IG:371:GLU:OE1	1.60	1.00
1:Q1:38:LYS:CD	1:IG:222:SER:HA	1.90	1.00
1:X1:372:VAL:CG1	2:X3:11:MET:CG	2.38	1.00
2:m1:11:MET:CG	1:gR:372:VAL:CG1	2.37	1.00
3:A2:208:LYS:HB3	4:BA:251:TRP:CD1	1.92	1.00
1:C4:371:GLU:OE1	1:RG:111:ARG:HD3	1.60	1.00
1:I4:81:PHE:HD2	1:QL:139:ARG:CD	1.70	1.00
1:X4:372:VAL:CG1	2:hE:11:MET:CG	2.37	1.00
5:E5:21:ILE:HG23	5:EI:55:LEU:HD22	1.05	1.00
1:I6:208:LEU:HD11	1:I6:391:ILE:HD12	1.04	1.00
1:Q6:30:SER:CA	1:LJ:315:ALA:HA	1.90	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:30:SER:CA	1:LK:315:ALA:HA	1.90	1.00
1:A7:111:ARG:HD3	1:gR:371:GLU:OE1	1.60	1.00
1:Y8:208:LEU:HD11	1:Y8:391:ILE:HD12	1.04	1.00
1:g8:30:SER:CA	1:KS:315:ALA:HA	1.90	1.00
4:B9:251:TRP:CD1	3:AB:208:LYS:HB3	1.92	1.00
1:AD:100:ASP:CG	1:YG:26:ASN:C	2.27	1.00
1:DD:316:VAL:HG12	1:KS:31:LYS:HD3	1.36	1.00
1:KD:53:TYR:CD1	1:IS:223:GLY:CA	2.43	1.00
1:LD:53:TYR:HD1	1:DK:222:SER:HB3	1.20	1.00
2:HE:1:MET:H3	1:CP:150:ASN:CG	1.60	1.00
1:KE:222:SER:HA	1:QQ:38:LYS:CD	1.90	1.00
1:ME:255:ILE:HG23	1:ME:261:ILE:HD12	1.41	1.00
4:BF:251:TRP:CD1	3:AO:208:LYS:HB3	1.92	1.00
1:AJ:59:ASN:ND2	1:AJ:143:GLN:OE1	1.93	1.00
2:MJ:11:MET:SD	1:JS:133:LEU:CB	2.48	1.00
1:AK:223:GLY:CA	1:KP:53:TYR:CD1	2.43	1.00
1:CK:31:LYS:CE	1:hR:316:VAL:HG23	1.91	1.00
1:CK:153:LEU:HD11	2:kR:5:ASN:N	1.77	1.00
1:LK:47:GLU:CD	1:KP:22:LEU:H	1.57	1.00
1:LK:55:PHE:CE2	1:KP:58:ILE:CB	2.42	1.00
1:CL:208:LEU:HD11	1:CL:391:ILE:HD12	1.04	1.00
1:QL:208:LEU:HD11	1:QL:391:ILE:HD12	1.04	1.00
1:YL:38:LYS:CD	1:QR:222:SER:HA	1.90	1.00
1:QQ:208:LEU:HD11	1:QQ:391:ILE:HD12	1.04	1.00
1:YQ:82:ILE:HD11	1:AS:145:LEU:HD23	1.43	1.00
1:I1:38:LYS:HD2	1:SE:222:SER:HA	1.43	1.00
1:f1:63:LEU:HD13	1:AQ:89:TYR:CE2	1.95	1.00
1:f1:371:GLU:OE1	1:AQ:111:ARG:HD3	1.60	1.00
1:C3:139:ARG:CD	1:QG:81:PHE:HD2	1.70	1.00
1:b3:82:ILE:HD11	1:BD:145:LEU:HD23	1.43	1.00
1:Q4:38:LYS:HD2	1:IL:222:SER:HA	1.43	1.00
1:R4:111:ARG:HD3	1:g8:371:GLU:OE1	1.60	1.00
2:U4:5:ASN:N	1:BS:153:LEU:HD11	1.76	1.00
1:i4:144:THR:HA	1:CD:82:ILE:HD13	1.38	1.00
3:A5:233:GLU:OE1	3:AN:228:ILE:CD1	2.08	1.00
1:I6:372:VAL:CG1	2:PL:11:MET:CG	2.37	1.00
1:Q6:54:LEU:HA	1:LJ:118:THR:CG2	1.91	1.00
1:Q6:58:ILE:CD1	1:CJ:55:PHE:CD2	2.44	1.00
1:i6:255:ILE:HG23	1:i6:261:ILE:HD12	1.41	1.00
1:B7:255:ILE:HG23	1:B7:261:ILE:HD12	1.41	1.00
1:J7:89:TYR:CE2	1:bQ:63:LEU:HD13	1.95	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q7:139:ARG:CD	1:YL:81:PHE:HD2	1.70	1.00
1:Y7:371:GLU:OE1	1:JR:111:ARG:HD3	1.60	1.00
1:g7:38:LYS:HD2	1:AE:222:SER:HA	1.43	1.00
1:I8:38:LYS:CD	1:IR:222:SER:HA	1.90	1.00
1:Q8:81:PHE:HD2	1:IG:139:ARG:CD	1.70	1.00
1:g8:302:ASP:OD2	1:DD:29:TYR:CZ	2.12	1.00
1:g8:367:PRO:HG2	1:KS:375:TRP:CZ3	1.74	1.00
5:CA:266:THR:CB	5:NC:230:SER:HA	1.90	1.00
4:BC:33:TYR:OH	5:EN:57:GLU:HA	1.60	1.00
1:AD:314:GLY:O	1:KK:31:LYS:CA	2.10	1.00
1:KD:133:LEU:CB	2:LS:11:MET:SD	2.48	1.00
1:LD:118:THR:CG2	1:YG:54:LEU:HA	1.91	1.00
1:LD:365:HIS:HD2	2:FK:10:MET:HE2	0.85	1.00
1:AG:111:ARG:HD3	1:YL:371:GLU:OE1	1.60	1.00
1:BG:255:ILE:HG23	1:BG:261:ILE:HD12	1.41	1.00
1:AJ:223:GLY:CA	1:JS:53:TYR:CD1	2.43	1.00
1:LJ:22:LEU:HD11	1:JS:49:PHE:CA	1.91	1.00
1:LJ:369:PHE:CE2	1:AS:105:GLU:HA	1.96	1.00
1:IL:371:GLU:OE1	1:ZR:111:ARG:HD3	1.60	1.00
1:RL:111:ARG:HD3	1:QR:371:GLU:OE1	1.60	1.00
1:gR:208:LEU:HD11	1:gR:391:ILE:HD12	1.04	1.00
1:Q1:208:LEU:HD11	1:Q1:391:ILE:HD12	1.04	1.00
1:R1:89:TYR:CE2	1:Q6:63:LEU:HD13	1.95	1.00
1:R1:111:ARG:HD3	1:Q6:371:GLU:OE1	1.60	1.00
1:X1:63:LEU:HD13	1:J6:89:TYR:CE2	1.95	1.00
1:f1:222:SER:HA	1:QG:38:LYS:HD2	1.43	1.00
1:I3:38:LYS:CD	1:QL:222:SER:HA	1.90	1.00
1:I3:371:GLU:OE1	1:R8:111:ARG:HD3	1.60	1.00
1:J3:111:ARG:HD3	1:Q8:371:GLU:OE1	1.60	1.00
1:K4:255:ILE:HG23	1:K4:261:ILE:HD12	1.41	1.00
1:X4:371:GLU:OE1	1:Z8:111:ARG:HD3	1.60	1.00
3:A5:228:ILE:CD1	3:AI:233:GLU:OE1	2.08	1.00
1:Y6:63:LEU:HD13	1:LE:89:TYR:CE2	1.95	1.00
1:Y6:222:SER:HA	1:SE:38:LYS:HD2	1.43	1.00
1:g6:14:VAL:CB	1:CP:45:MET:CE	1.81	1.00
1:g6:25:PHE:O	1:AP:100:ASP:HA	1.60	1.00
1:g6:54:LEU:HA	1:LP:118:THR:CG2	1.91	1.00
1:g6:310:THR:CG2	1:DJ:27:HIS:CE1	2.44	1.00
1:g6:371:GLU:OE1	1:BE:111:ARG:HD3	1.60	1.00
1:h6:89:TYR:CE2	1:AE:63:LEU:HD13	1.95	1.00
1:Q7:38:LYS:CD	1:YL:222:SER:HA	1.90	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q7:222:SER:HA	1:QR:38:LYS:CD	1.90	1.00
1:g7:81:PHE:HD2	1:C8:139:ARG:CD	1.70	1.00
1:g7:222:SER:HA	1:C8:38:LYS:HD2	1.43	1.00
1:i7:255:ILE:HG23	1:i7:261:ILE:HD12	1.41	1.00
1:g8:58:ILE:CD1	1:BS:55:PHE:CD2	2.44	1.00
1:g8:310:THR:CG2	1:DD:27:HIS:CE1	2.44	1.00
3:A9:228:ILE:CD1	3:AA:233:GLU:OE1	2.08	1.00
3:AB:113:TYR:C	2:MD:22:LYS:H	1.68	1.00
5:DC:25:ARG:CZ	1:DP:102:SER:O	2.09	1.00
1:DD:222:SER:OG	1:KS:39:TRP:O	1.78	1.00
1:LD:368:GLU:OE2	1:DK:374:HIS:C	2.05	1.00
2:MD:11:MET:SD	1:KK:133:LEU:CB	2.48	1.00
1:FE:366:ASN:HA	1:LP:108:MET:CE	1.91	1.00
1:KE:222:SER:HA	1:QQ:38:LYS:HD2	1.43	1.00
1:KE:372:VAL:CG1	2:PR:11:MET:CG	2.37	1.00
1:TE:111:ARG:HD3	1:IQ:371:GLU:OE1	1.60	1.00
1:CG:208:LEU:HD11	1:CG:391:ILE:HD12	1.04	1.00
1:QG:208:LEU:HD11	1:QG:391:ILE:HD12	1.05	1.00
1:aG:53:TYR:HD1	1:BK:222:SER:OG	1.43	1.00
1:gG:63:LEU:HD13	1:AL:89:TYR:CE2	1.95	1.00
3:AI:228:ILE:CD1	3:AO:233:GLU:OE1	2.08	1.00
1:LJ:363:PRO:HG2	2:ES:9:SER:HB3	1.40	1.00
1:LJ:368:GLU:OE2	1:CS:374:HIS:C	2.05	1.00
1:LK:39:TRP:O	1:DP:222:SER:OG	1.78	1.00
2:MK:11:MET:SD	1:KP:133:LEU:CB	2.48	1.00
1:RL:89:TYR:CE2	1:QR:63:LEU:HD13	1.95	1.00
3:AM:117:PRO:CD	2:LS:7:MET:HE2	1.92	1.00
5:EO:140:ASP:CA	5:CO:139:LYS:CB	2.00	1.00
1:Q1:222:SER:HA	1:Q8:38:LYS:CD	1.90	1.00
1:I3:81:PHE:HD2	1:I4:139:ARG:CD	1.70	1.00
1:b3:81:PHE:CD2	1:BD:139:ARG:CD	2.31	1.00
1:Q4:81:PHE:HD2	1:IQ:139:ARG:CD	1.70	1.00
1:X4:259:PHE:CE1	1:Z8:259:PHE:HE1	1.80	1.00
1:g4:111:ARG:HD3	1:YG:371:GLU:OE1	1.60	1.00
1:g6:111:ARG:NH1	1:CJ:105:GLU:OE2	1.95	1.00
1:C7:63:LEU:HD13	1:hR:89:TYR:CE2	1.95	1.00
1:Z7:89:TYR:CE2	1:IR:63:LEU:HD13	1.95	1.00
1:g7:208:LEU:HD11	1:g7:391:ILE:HD12	1.04	1.00
1:g8:111:ARG:NH1	1:CD:105:GLU:OE2	1.95	1.00
1:CD:47:GLU:CB	1:YG:20:SER:HB2	1.91	1.00
3:AF:233:GLU:OE1	3:AM:228:ILE:CD1	2.08	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:105:GLU:HA	1:LP:369:PHE:CE2	1.96	1.00
1:DJ:121:TYR:HE1	1:LP:36:GLY:HA3	1.22	1.00
1:LK:369:PHE:CE2	1:BP:105:GLU:HA	1.96	1.00
2:W1:11:MET:HE3	1:CS:372:VAL:HG23	1.39	1.00
1:C3:371:GLU:OE1	1:h7:111:ARG:HD3	1.60	1.00
1:Q3:38:LYS:HD2	1:X4:222:SER:HA	1.43	1.00
2:a3:2:TYR:HE2	1:BK:157:LYS:NZ	1.52	1.00
1:Q4:208:LEU:HD11	1:Q4:391:ILE:HD12	1.05	1.00
1:T4:30:SER:C	1:BS:315:ALA:HA	1.84	1.00
1:g4:259:PHE:HE1	1:YG:259:PHE:CE1	1.80	1.00
1:C6:139:ARG:CD	1:gG:81:PHE:HD2	1.70	1.00
1:I6:38:LYS:HD2	1:YR:222:SER:HA	1.43	1.00
1:C7:58:ILE:CD1	1:CK:55:PHE:CD2	2.44	1.00
1:I7:259:PHE:CE1	1:cQ:259:PHE:HE1	1.79	1.00
1:AD:100:ASP:HA	1:YG:25:PHE:O	1.60	1.00
1:LD:22:LEU:HD11	1:KK:49:PHE:CA	1.90	1.00
1:aG:16:LYS:O	1:DK:45:MET:HE3	1.49	1.00
1:aG:144:THR:H	1:BK:82:ILE:HD11	1.21	1.00
1:hG:259:PHE:HE1	1:CL:259:PHE:CE1	1.79	1.00
4:BI:33:TYR:OH	5:EM:57:GLU:HA	1.60	1.00
1:KJ:47:GLU:HB2	1:LP:22:LEU:HD23	1.44	1.00
1:CK:116:MET:HE3	1:jR:51:ASN:CG	1.86	1.00
1:R1:105:GLU:OE1	1:AS:110:LYS:NZ	1.95	1.00
1:T1:29:TYR:C	1:CJ:315:ALA:CB	2.35	1.00
3:A2:114:PHE:CD1	2:GK:25:GLU:OE1	2.15	1.00
1:S6:144:THR:C	1:AS:82:ILE:CD1	2.35	1.00
1:Z6:111:ARG:HD3	1:KE:371:GLU:OE1	1.60	1.00
1:C7:310:THR:CG2	1:DP:27:HIS:CE1	2.44	1.00
1:I7:81:PHE:HD2	1:CQ:139:ARG:CD	1.70	1.00
1:I7:371:GLU:OE1	1:cQ:111:ARG:HD3	1.60	1.00
2:H8:11:MET:CG	1:QL:372:VAL:CG1	2.38	1.00
4:BC:33:TYR:HE1	5:EN:57:GLU:CB	1.73	1.00
1:DD:374:HIS:C	1:KS:368:GLU:OE2	2.05	1.00
1:FE:29:TYR:C	1:CP:315:ALA:CB	2.35	1.00
1:KG:255:ILE:HG23	1:KG:261:ILE:HD12	1.41	1.00
1:KJ:150:ASN:ND2	2:MP:2:TYR:CD1	2.24	1.00
3:AN:104:GLN:NE2	2:MP:7:MET:SD	2.33	1.00
1:I1:139:ARG:CD	1:SE:81:PHE:HD2	1.70	1.00
2:P1:11:MET:CG	1:Q1:372:VAL:CG1	2.38	1.00
1:R3:111:ARG:HD3	1:I8:371:GLU:OE1	1.60	1.00
1:T4:29:TYR:C	1:BS:315:ALA:CB	2.35	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z4:255:ILE:HG23	1:Z4:261:ILE:HD12	1.41	1.00
1:g6:58:ILE:HD12	1:CP:55:PHE:CG	1.96	1.00
1:C7:57:LYS:HB3	1:CK:143:GLN:HE21	1.21	1.00
1:a7:255:ILE:HG23	1:a7:261:ILE:HD12	1.41	1.00
1:BD:105:GLU:HA	1:KS:369:PHE:CE2	1.96	1.00
1:UE:255:ILE:HG23	1:UE:261:ILE:HD12	1.41	1.00
1:bE:111:ARG:HD3	1:CR:371:GLU:OE1	1.60	1.00
1:YG:111:ARG:NH1	1:CK:105:GLU:OE2	1.95	1.00
1:hG:111:ARG:HD3	1:CL:371:GLU:OE1	1.60	1.00
1:KJ:49:PHE:CA	1:LP:22:LEU:HD11	1.90	1.00
1:AK:120:LEU:CD1	1:KP:55:PHE:HD1	1.72	1.00
1:LK:144:THR:N	1:DP:82:ILE:HD11	1.72	1.00
3:AM:117:PRO:N	2:LS:7:MET:HE2	1.60	1.00
1:BP:110:LYS:NZ	1:hR:105:GLU:OE1	1.95	1.00
1:X1:222:SER:HA	1:IR:38:LYS:HD2	1.43	0.99
1:R4:105:GLU:H	1:BD:110:LYS:HZ3	1.09	0.99
1:R4:316:VAL:HG23	1:BS:31:LYS:CE	1.91	0.99
2:j4:5:ASN:N	1:CD:153:LEU:HD11	1.77	0.99
1:S6:14:VAL:HB	1:CS:14:VAL:HG11	1.42	0.99
1:C7:111:ARG:NH1	1:CP:105:GLU:OE2	1.95	0.99
1:C7:371:GLU:OE1	1:hR:111:ARG:HD3	1.60	0.99
1:Y8:222:SER:HA	1:bQ:38:LYS:HD2	1.43	0.99
3:AA:7:GLY:N	5:DH:24:THR:HA	1.61	0.99
1:DD:170:GLU:O	1:KS:33:TRP:CE3	2.15	0.99
1:LD:33:TRP:CE3	1:DK:170:GLU:O	2.15	0.99
1:SE:208:LEU:HD11	1:SE:391:ILE:HD12	1.04	0.99
3:AH:112:ILE:CD1	2:MP:20:LEU:CD2	2.39	0.99
1:LK:33:TRP:CE3	1:DP:170:GLU:O	2.15	0.99
1:aL:255:ILE:HG23	1:aL:261:ILE:HD12	1.41	0.99
1:CQ:222:SER:HA	1:gR:38:LYS:HD2	1.43	0.99
1:C1:139:ARG:CD	1:bQ:81:PHE:HD2	1.70	0.99
1:T1:366:ASN:HA	1:LJ:108:MET:CE	1.91	0.99
5:E2:57:GLU:HB3	4:BF:33:TYR:OH	1.52	0.99
1:A3:85:TYR:HH	1:g7:46:PHE:HD1	1.04	0.99
1:T4:366:ASN:HA	1:KS:108:MET:CE	1.91	0.99
1:f4:222:SER:HA	1:gG:38:LYS:HD2	1.43	0.99
1:g4:105:GLU:OE1	1:BK:110:LYS:NZ	1.95	0.99
3:A5:65:ASN:ND2	1:AJ:149:THR:HG22	1.76	0.99
1:S6:27:HIS:C	1:BS:100:ASP:HB2	1.79	0.99
1:KD:372:VAL:CG2	2:LS:11:MET:HE3	1.40	0.99
1:aE:63:LEU:HD13	1:AR:89:TYR:CE2	1.95	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:315:ALA:CB	1:jR:29:TYR:C	2.35	0.99
1:CL:81:PHE:HD2	1:YR:139:ARG:CD	1.70	0.99
2:W4:11:MET:HE3	1:DD:372:VAL:HG23	1.39	0.99
1:Q6:310:THR:CG2	1:CS:27:HIS:CE1	2.44	0.99
1:C7:58:ILE:HD12	1:CK:55:PHE:CG	1.96	0.99
1:R7:111:ARG:HD3	1:QQ:371:GLU:OE1	1.60	0.99
1:g7:38:LYS:CD	1:AE:222:SER:HA	1.90	0.99
1:g8:20:SER:HB2	1:BS:47:GLU:CB	1.92	0.99
1:g8:58:ILE:HD12	1:BS:55:PHE:CG	1.96	0.99
1:AD:375:TRP:CD1	1:KK:368:GLU:HA	1.97	0.99
1:LD:312:PRO:HB3	1:YG:27:HIS:CD2	1.96	0.99
1:SE:46:PHE:HD1	1:JQ:85:TYR:HH	1.04	0.99
1:AJ:81:PHE:CD2	1:JS:139:ARG:NH1	2.08	0.99
1:AJ:143:GLN:HG3	3:AN:29:ARG:HD2	1.42	0.99
1:LJ:140:PHE:C	1:CS:84:GLN:HG3	1.72	0.99
2:MJ:11:MET:HE3	1:JS:372:VAL:CG2	1.40	0.99
1:IS:59:ASN:ND2	1:IS:143:GLN:OE1	1.93	0.99
1:X1:371:GLU:OE1	1:J6:111:ARG:HD3	1.60	0.99
1:Y6:371:GLU:OE1	1:LE:111:ARG:HD3	1.60	0.99
1:h6:111:ARG:HD3	1:AE:371:GLU:OE1	1.60	0.99
1:Q8:222:SER:HA	1:IG:38:LYS:HD2	1.43	0.99
1:g8:25:PHE:O	1:IS:100:ASP:HA	1.60	0.99
4:BA:30:LEU:N	5:EH:64:TRP:CE2	2.31	0.99
1:LD:39:TRP:O	1:DK:222:SER:OG	1.78	0.99
1:BE:105:GLU:HB3	1:BJ:109:LEU:CD1	1.90	0.99
1:aG:255:ILE:HG23	1:aG:261:ILE:HD12	1.41	0.99
1:LJ:33:TRP:CE2	1:CS:174:MET:HA	1.94	0.99
3:AM:233:GLU:OE1	3:AO:228:ILE:CD1	2.08	0.99
1:h1:255:ILE:HG23	1:h1:261:ILE:HD12	1.41	0.99
5:E2:64:TRP:CE2	4:BF:30:LEU:N	2.31	0.99
1:R4:105:GLU:OE1	1:BD:110:LYS:NZ	1.95	0.99
5:E5:57:GLU:HA	4:BH:33:TYR:OH	1.60	0.99
1:K6:255:ILE:HG23	1:K6:261:ILE:HD12	1.41	0.99
1:Y6:222:SER:HA	1:SE:38:LYS:CD	1.90	0.99
1:g6:58:ILE:CD1	1:CP:55:PHE:CD2	2.44	0.99
1:Q7:222:SER:HA	1:QR:38:LYS:HD2	1.43	0.99
4:B9:33:TYR:HE1	5:EC:57:GLU:CB	1.73	0.99
4:BC:30:LEU:N	5:EN:64:TRP:CE2	2.31	0.99
1:AD:139:ARG:NH2	3:AF:30:LEU:HG	1.78	0.99
1:DD:126:VAL:HG12	1:KS:25:PHE:HZ	1.18	0.99
1:KD:19:LYS:HE2	1:KS:45:MET:CG	1.87	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MD:11:MET:HE3	1:KK:372:VAL:CG2	1.40	0.99
5:EI:64:TRP:CE2	4:BN:30:LEU:N	2.31	0.99
1:AJ:314:GLY:O	1:JS:31:LYS:CA	2.10	0.99
1:AK:104:ASN:HB2	1:hR:110:LYS:HZ1	1.27	0.99
1:LK:45:MET:CG	1:KP:19:LYS:HE2	1.87	0.99
1:KL:255:ILE:HG23	1:KL:261:ILE:HD12	1.41	0.99
1:iR:255:ILE:HG23	1:iR:261:ILE:HD12	1.41	0.99
1:Q1:38:LYS:HD2	1:IG:222:SER:HA	1.43	0.99
1:g4:316:VAL:HG23	1:CD:31:LYS:CE	1.90	0.99
1:i4:29:TYR:C	1:CD:315:ALA:CB	2.35	0.99
4:B9:30:LEU:N	5:EC:64:TRP:CE2	2.31	0.99
3:AB:114:PHE:CG	1:AD:360:LEU:HD21	1.97	0.99
2:FD:10:MET:HE2	1:KS:365:HIS:HD2	0.85	0.99
1:KJ:19:LYS:HE2	1:LP:45:MET:CG	1.87	0.99
1:LJ:144:THR:N	1:CS:82:ILE:HD11	1.72	0.99
3:AN:104:GLN:CD	2:MP:9:SER:CA	2.29	0.99
1:Q3:222:SER:HA	1:CR:38:LYS:HD2	1.43	0.99
1:R3:85:TYR:HH	1:I8:46:PHE:HD1	1.05	0.99
5:E5:64:TRP:CE2	4:BH:30:LEU:N	2.31	0.99
1:Q6:20:SER:HB2	1:CJ:47:GLU:CB	1.92	0.99
3:AA:114:PHE:CA	2:MK:7:MET:O	2.10	0.99
1:DD:222:SER:CB	1:KS:53:TYR:CD1	2.38	0.99
1:LK:38:LYS:CG	1:DP:119:LYS:HZ1	1.71	0.99
1:IL:139:ARG:CD	1:IQ:81:PHE:HD2	1.70	0.99
2:U1:11:MET:HE3	1:CJ:372:VAL:HG12	1.44	0.99
1:I3:222:SER:HA	1:I4:38:LYS:HD2	1.43	0.99
1:I4:222:SER:HA	1:QL:38:LYS:HD2	1.43	0.99
1:C7:20:SER:HB2	1:CK:47:GLU:CB	1.91	0.99
1:C7:25:PHE:O	1:AK:100:ASP:HA	1.60	0.99
1:C7:27:HIS:CD2	1:LK:312:PRO:HB3	1.96	0.99
4:BA:33:TYR:OH	5:EH:57:GLU:HA	1.60	0.99
1:DE:82:ILE:HD11	1:BP:145:LEU:HD23	1.43	0.99
1:aE:371:GLU:OE1	1:AR:111:ARG:HD3	1.60	0.99
1:BJ:145:LEU:HD23	1:gL:82:ILE:HD11	1.43	0.99
1:DJ:170:GLU:O	1:LP:33:TRP:CE3	2.15	0.99
1:CL:222:SER:HA	1:YR:38:LYS:HD2	1.43	0.99
1:K3:255:ILE:HG23	1:K3:261:ILE:HD12	1.41	0.99
3:A5:117:PRO:CA	2:MJ:19:ARG:HH12	1.68	0.99
3:A5:156:ILE:N	1:AJ:139:ARG:CZ	2.25	0.99
1:S8:255:ILE:HG23	1:S8:261:ILE:HD12	1.41	0.99
1:i8:144:THR:C	1:BD:82:ILE:CD1	2.34	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:66:ILE:HD13	2:MP:54:THR:HG21	0.99	0.99
1:aG:20:SER:HB2	1:DK:47:GLU:H	1.20	0.99
5:EI:57:GLU:HA	4:BN:33:TYR:OH	1.60	0.99
1:DJ:374:HIS:C	1:LP:368:GLU:OE2	2.05	0.99
1:KJ:55:PHE:HD1	1:AP:120:LEU:CD1	1.72	0.99
1:KJ:80:ASP:CB	3:AN:64:GLN:CA	2.39	0.99
1:KJ:368:GLU:HA	1:AP:375:TRP:CD1	1.97	0.99
1:BR:255:ILE:HG23	1:BR:261:ILE:HD12	1.41	0.99
1:Q3:46:PHE:HD1	1:J8:85:TYR:HH	1.04	0.99
1:Q3:371:GLU:OE1	1:J8:111:ARG:HD3	1.60	0.99
1:T4:51:ASN:CG	1:BS:116:MET:HE3	1.86	0.99
4:B5:33:TYR:OH	5:EO:57:GLU:HA	1.60	0.99
1:Z6:259:PHE:HE1	1:KE:259:PHE:CE1	1.80	0.99
1:g6:259:PHE:CE1	1:BE:259:PHE:HE1	1.80	0.99
5:OB:371:PRO:HB3	5:CF:275:ASN:HD22	1.28	0.99
1:CD:55:PHE:CG	1:YG:58:ILE:HD12	1.96	0.99
1:KD:27:HIS:ND1	1:IS:310:THR:O	1.96	0.99
1:LD:144:THR:N	1:DK:82:ILE:HD11	1.72	0.99
1:KJ:27:HIS:ND1	1:AP:310:THR:O	1.96	0.99
1:f1:139:ARG:CD	1:C3:81:PHE:HD2	1.70	0.98
4:B2:30:LEU:N	5:EA:64:TRP:CE2	2.31	0.98
3:A5:208:LYS:HB3	4:BO:251:TRP:CD1	1.92	0.98
4:B5:33:TYR:CZ	5:EO:57:GLU:HB3	1.73	0.98
4:B5:251:TRP:CD1	3:AH:208:LYS:HB3	1.92	0.98
1:S6:144:THR:H	1:AS:82:ILE:HD11	1.21	0.98
1:I7:222:SER:HA	1:CQ:38:LYS:HD2	1.43	0.98
1:I8:38:LYS:HD2	1:IR:222:SER:HA	1.43	0.98
2:MD:51:GLN:HG2	3:AF:114:PHE:CZ	1.97	0.98
1:FE:144:THR:HA	1:CP:82:ILE:HD13	1.37	0.98
5:CI:275:ASN:HD22	5:OO:371:PRO:HB3	1.28	0.98
1:AK:310:THR:O	1:KP:27:HIS:ND1	1.96	0.98
3:AM:114:PHE:CD2	2:LS:9:SER:C	2.41	0.98
3:AO:64:GLN:HG2	1:IS:149:THR:C	1.76	0.98
1:X1:139:ARG:CD	1:I8:81:PHE:HD2	1.70	0.98
3:A2:7:GLY:N	5:DA:24:THR:HA	1.60	0.98
2:l4:3:GLU:O	1:DK:153:LEU:CD2	2.11	0.98
1:S6:57:LYS:CE	1:CS:143:GLN:NE2	1.95	0.98
1:Y6:81:PHE:HD2	1:SE:139:ARG:CD	1.70	0.98
1:i6:14:VAL:HB	1:DJ:14:VAL:HG11	1.42	0.98
1:Z7:111:ARG:HD3	1:IR:371:GLU:OE1	1.60	0.98
3:AA:115:ILE:HG13	2:MK:7:MET:HE3	1.00	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:83:TYR:O	1:AD:156:TYR:CZ	2.15	0.98
1:KD:31:LYS:CA	1:IS:314:GLY:O	2.10	0.98
5:EH:140:ASP:HB2	5:CH:139:LYS:CD	1.93	0.98
4:BI:30:LEU:N	5:EM:64:TRP:CE2	2.31	0.98
1:LK:365:HIS:HD2	2:FP:10:MET:HE2	0.85	0.98
1:YQ:81:PHE:CD2	1:AS:139:ARG:CD	2.31	0.98
1:SR:255:ILE:HG23	1:SR:261:ILE:HD12	1.41	0.98
1:X1:62:LEU:CD1	2:P6:54:THR:CA	2.39	0.98
4:B2:33:TYR:CZ	5:EA:57:GLU:HB3	1.73	0.98
1:J4:111:ARG:HD3	1:C8:371:GLU:OE1	1.60	0.98
2:W4:3:GLU:O	1:DD:153:LEU:CD2	2.12	0.98
4:B5:30:LEU:N	5:EO:64:TRP:CE2	2.31	0.98
1:g6:20:SER:HB2	1:CP:47:GLU:CB	1.92	0.98
1:C7:62:LEU:CD1	2:mR:54:THR:CA	2.39	0.98
1:i8:57:LYS:CE	1:DD:143:GLN:NE2	1.95	0.98
3:A9:150:TYR:C	1:AK:144:THR:CG2	2.35	0.98
5:E9:64:TRP:CE2	4:BB:30:LEU:N	2.31	0.98
3:AA:197:VAL:HG12	5:DN:40:THR:CG2	1.94	0.98
1:DD:121:TYR:CD1	1:KS:36:GLY:CA	2.47	0.98
1:KD:28:ASP:CA	1:IS:304:GLN:HE22	1.76	0.98
1:KD:55:PHE:HD1	1:IS:120:LEU:HD11	1.23	0.98
2:HE:5:ASN:N	1:CP:153:LEU:HD11	1.77	0.98
5:DF:40:THR:CG2	3:AI:197:VAL:HG12	1.93	0.98
2:nG:54:THR:CA	1:CL:62:LEU:CD1	2.39	0.98
1:KJ:28:ASP:CA	1:AP:304:GLN:HE22	1.76	0.98
1:KJ:31:LYS:CA	1:AP:314:GLY:O	2.10	0.98
1:KJ:106:GLU:N	1:CS:109:LEU:HG	1.71	0.98
1:LJ:33:TRP:CE3	1:CS:170:GLU:O	2.15	0.98
1:AK:297:LEU:HD11	1:KP:29:TYR:HH	1.28	0.98
1:AK:304:GLN:HE22	1:KP:28:ASP:CA	1.76	0.98
1:LK:368:GLU:CA	1:DP:375:TRP:CG	2.40	0.98
3:AN:197:VAL:HG12	5:DO:40:THR:CG2	1.93	0.98
2:m1:54:THR:CA	1:CQ:62:LEU:CD1	2.39	0.98
3:A5:156:ILE:H	1:AJ:139:ARG:NH2	1.60	0.98
4:B5:244:LYS:HB2	3:AH:212:MET:HE2	1.45	0.98
1:S6:255:ILE:HG23	1:S6:261:ILE:HD12	1.41	0.98
5:EB:64:TRP:CE2	4:BM:30:LEU:N	2.31	0.98
1:FE:51:ASN:CG	1:CP:116:MET:HE3	1.86	0.98
2:JE:3:GLU:O	1:DJ:153:LEU:CD2	2.12	0.98
1:AJ:43:ASN:C	5:DN:25:ARG:NH1	2.20	0.98
1:AJ:62:LEU:CB	1:KJ:88:GLU:HB3	1.67	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:120:LEU:HD11	1:JS:55:PHE:HD1	1.23	0.98
1:LK:153:LEU:HD11	2:FP:2:TYR:HD2	1.25	0.98
3:A2:112:ILE:HB	2:MD:5:ASN:ND2	1.78	0.98
1:T4:29:TYR:C	1:BS:315:ALA:HB2	1.88	0.98
1:I7:62:LEU:CD1	2:iQ:54:THR:CA	2.39	0.98
1:i8:20:SER:HB2	1:DD:47:GLU:H	1.20	0.98
5:EC:140:ASP:HB2	5:CC:139:LYS:CD	1.94	0.98
1:KD:47:GLU:HB2	1:KS:22:LEU:HD23	1.44	0.98
1:KD:80:ASP:HB3	3:AF:65:ASN:HB3	1.45	0.98
1:KD:368:GLU:HA	1:IS:375:TRP:CD1	1.97	0.98
1:cE:255:ILE:HG23	1:cE:261:ILE:HD12	1.41	0.98
3:AI:209:MET:HA	4:BM:250:ILE:HD12	1.46	0.98
5:EI:140:ASP:HB2	5:CI:139:LYS:CD	1.93	0.98
1:KJ:48:THR:CA	1:LP:22:LEU:HD21	1.94	0.98
1:LK:22:LEU:HD23	1:KP:47:GLU:HB2	1.44	0.98
1:DP:153:LEU:CD2	2:mR:3:GLU:O	2.11	0.98
1:BQ:255:ILE:HG23	1:BQ:261:ILE:HD12	1.41	0.98
1:aR:255:ILE:HG23	1:aR:261:ILE:HD12	1.41	0.98
1:I1:371:GLU:OE1	1:JG:111:ARG:HD3	1.60	0.98
2:U1:5:ASN:N	1:CJ:153:LEU:HD11	1.77	0.98
1:C4:139:ARG:CD	1:CG:81:PHE:HD2	1.70	0.98
1:B7:144:THR:C	1:BP:82:ILE:CD1	2.35	0.98
1:g7:139:ARG:CD	1:AE:81:PHE:HD2	1.70	0.98
3:AB:111:ASP:O	2:MD:23:ARG:CZ	2.10	0.98
5:DC:25:ARG:NH2	1:DP:102:SER:C	2.22	0.98
1:AD:144:THR:CA	3:AF:36:LEU:HD11	1.93	0.98
1:AD:310:THR:O	1:KK:27:HIS:ND1	1.96	0.98
1:LD:153:LEU:HD11	2:FK:2:TYR:HD2	1.25	0.98
2:MD:2:TYR:CD1	1:KK:150:ASN:ND2	2.24	0.98
1:FE:363:PRO:HG3	2:HP:9:SER:HB2	1.45	0.98
5:EF:64:TRP:CE2	4:BO:30:LEU:N	2.31	0.98
1:CK:38:LYS:HE2	1:hR:222:SER:HA	1.02	0.98
2:PL:54:THR:CA	1:YR:62:LEU:CD1	2.39	0.98
5:EM:140:ASP:HB2	5:CM:139:LYS:CD	1.94	0.98
2:W1:3:GLU:O	1:CS:153:LEU:CD2	2.11	0.98
4:B2:32:PHE:CE2	5:FA:55:LEU:HD13	1.99	0.98
1:b3:81:PHE:HE2	1:BD:139:ARG:HD3	1.26	0.98
1:i4:29:TYR:C	1:LD:98:ASN:HD21	1.71	0.98
1:B7:57:LYS:CE	1:DP:143:GLN:NE2	1.95	0.98
1:B7:57:LYS:HD3	1:DP:143:GLN:NE2	1.32	0.98
5:F9:55:LEU:HD13	4:BB:32:PHE:CE2	1.99	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EA:140:ASP:HB2	5:CA:139:LYS:CD	1.94	0.98
1:AD:304:GLN:HE22	1:KK:28:ASP:CA	1.76	0.98
1:KD:100:ASP:HA	1:KK:25:PHE:O	1.54	0.98
1:LD:33:TRP:CE2	1:DK:174:MET:HA	1.94	0.98
1:FE:29:TYR:C	1:CP:315:ALA:HB2	1.88	0.98
1:AG:85:TYR:HH	1:YL:46:PHE:HD1	1.05	0.98
1:aG:30:SER:OG	1:CK:98:ASN:ND2	1.97	0.98
4:BI:32:PHE:CE2	5:FM:55:LEU:HD13	1.99	0.98
1:CK:372:VAL:HG12	2:kR:11:MET:HE3	1.44	0.98
1:K1:255:ILE:HG23	1:K1:261:ILE:HD12	1.41	0.98
1:C4:62:LEU:CD1	2:XG:54:THR:CA	2.39	0.98
2:W4:54:THR:CA	1:g8:62:LEU:CD1	2.39	0.98
1:i4:29:TYR:C	1:CD:315:ALA:HB2	1.88	0.98
5:E5:140:ASP:HB2	5:C5:139:LYS:CD	1.94	0.98
1:Q6:111:ARG:NH1	1:BS:105:GLU:OE2	1.95	0.98
1:K8:255:ILE:HG23	1:K8:261:ILE:HD12	1.41	0.98
3:AA:113:TYR:HD2	2:MK:7:MET:SD	1.85	0.98
5:DA:40:THR:CG2	3:AB:197:VAL:HG12	1.94	0.98
3:AB:152:SER:CB	1:AD:135:ASN:OD1	2.11	0.98
1:LD:45:MET:CG	1:KK:19:LYS:HE2	1.87	0.98
1:BE:105:GLU:OE1	1:BJ:110:LYS:NZ	1.95	0.98
1:KE:81:PHE:HD2	1:QQ:139:ARG:CD	1.70	0.98
3:AH:197:VAL:HG12	5:DI:40:THR:CG2	1.94	0.98
1:AK:314:GLY:O	1:KP:31:LYS:CA	2.10	0.98
1:LK:25:PHE:HZ	1:DP:126:VAL:HG12	1.18	0.98
1:YL:38:LYS:HD2	1:QR:222:SER:HA	1.43	0.98
1:R1:110:LYS:HZ1	1:AJ:104:ASN:HB2	1.29	0.98
1:T1:363:PRO:HG3	2:HJ:9:SER:HB2	1.45	0.98
1:C4:222:SER:HA	1:aE:38:LYS:HD2	1.43	0.98
1:g4:105:GLU:HB2	1:BK:110:LYS:HE2	1.46	0.98
1:Q7:38:LYS:HD2	1:YL:222:SER:HA	1.43	0.98
1:i8:14:VAL:HB	1:DD:14:VAL:HG11	1.42	0.98
4:BB:250:ILE:HD12	3:AM:209:MET:HA	1.46	0.98
3:AC:209:MET:HA	4:BN:250:ILE:HD12	1.46	0.98
3:AH:112:ILE:HG13	2:MP:23:ARG:HH12	1.11	0.98
1:R1:222:SER:HA	1:CJ:38:LYS:HE2	1.02	0.98
5:E2:37:ASP:OD2	3:AF:197:VAL:HG21	1.64	0.98
1:R4:259:PHE:HE1	1:g8:259:PHE:CE1	1.79	0.98
4:B5:250:ILE:HD12	3:AH:209:MET:HA	1.46	0.98
1:B8:255:ILE:HG23	1:B8:261:ILE:HD12	1.41	0.98
5:FB:55:LEU:HD13	4:BM:32:PHE:CE2	1.99	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:143:GLN:CA	1:DK:82:ILE:CG1	2.42	0.98
1:TE:85:TYR:HH	1:IQ:46:PHE:HD1	1.07	0.98
5:EF:37:ASP:OD2	3:AO:197:VAL:HG21	1.64	0.98
1:BJ:99:MET:CB	1:LP:25:PHE:HD1	1.77	0.98
1:LJ:22:LEU:HD21	1:JS:48:THR:CA	1.94	0.98
1:KK:100:ASP:HA	1:KP:25:PHE:O	1.55	0.98
1:LK:98:ASN:HD21	1:jR:29:TYR:C	1.71	0.98
1:LK:368:GLU:OE2	1:DP:374:HIS:C	2.05	0.98
1:T1:29:TYR:C	1:LJ:98:ASN:HD21	1.71	0.97
2:X3:54:THR:CA	1:I8:62:LEU:CD1	2.39	0.97
1:C4:259:PHE:CE1	1:RG:259:PHE:HE1	1.79	0.97
4:B5:32:PHE:CE2	5:FO:55:LEU:HD13	1.99	0.97
1:i6:30:SER:OG	1:CJ:98:ASN:ND2	1.97	0.97
1:i6:144:THR:C	1:BJ:82:ILE:CD1	2.35	0.97
4:B9:32:PHE:CE2	5:FC:55:LEU:HD13	1.99	0.97
1:LD:47:GLU:CD	1:KK:22:LEU:H	1.57	0.97
1:AJ:304:GLN:HE22	1:JS:28:ASP:CA	1.76	0.97
1:LK:22:LEU:HD23	1:KP:47:GLU:C	1.90	0.97
1:LK:372:VAL:HG21	2:FP:10:MET:HB2	1.46	0.97
2:H1:54:THR:CA	1:C6:62:LEU:CD1	2.39	0.97
3:A2:197:VAL:HG21	5:EA:37:ASP:OD2	1.64	0.97
4:B2:244:LYS:HB2	3:AF:212:MET:HE2	1.45	0.97
5:D5:40:THR:CG2	3:AC:197:VAL:HG12	1.94	0.97
1:i8:57:LYS:HD3	1:DD:143:GLN:NE2	1.32	0.97
5:E9:57:GLU:HA	4:BB:33:TYR:OH	1.59	0.97
1:KD:143:GLN:CA	1:IS:82:ILE:CG1	2.35	0.97
2:FJ:11:MET:CB	1:LP:133:LEU:HG	1.74	0.97
1:LJ:36:GLY:CA	1:CS:121:TYR:CD1	2.47	0.97
1:LK:140:PHE:O	1:DP:84:GLN:CG	2.12	0.97
3:AO:64:GLN:HB3	1:IS:150:ASN:OD1	1.64	0.97
1:C1:222:SER:HA	1:Y8:38:LYS:HD2	1.43	0.97
1:I1:81:PHE:HD2	1:Y6:139:ARG:HD2	1.25	0.97
3:A2:197:VAL:HG12	5:DC:40:THR:CG2	1.94	0.97
4:B2:32:PHE:CE2	5:FA:55:LEU:CD1	2.48	0.97
1:Q4:222:SER:HA	1:IQ:38:LYS:HD2	1.43	0.97
1:g4:105:GLU:HB3	1:BK:109:LEU:CD1	1.90	0.97
1:Q6:367:PRO:HG2	1:LJ:375:TRP:CZ3	1.74	0.97
1:i6:16:LYS:O	1:DJ:45:MET:CE	2.04	0.97
1:i6:31:LYS:CA	1:BJ:314:GLY:O	2.12	0.97
1:i8:31:LYS:CA	1:BD:314:GLY:O	2.12	0.97
5:D9:40:THR:CG2	3:AF:197:VAL:HG12	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:107:LEU:HG	2:MK:19:ARG:HH22	1.16	0.97
4:BB:244:LYS:HB2	3:AM:212:MET:HE2	1.46	0.97
4:BC:32:PHE:CE2	5:FN:55:LEU:CD1	2.48	0.97
1:KD:48:THR:N	1:KS:22:LEU:HD21	1.80	0.97
1:LD:140:PHE:O	1:DK:84:GLN:CG	2.12	0.97
1:aE:62:LEU:CD1	2:HR:54:THR:CA	2.39	0.97
1:AJ:310:THR:O	1:JS:27:HIS:ND1	1.96	0.97
1:DJ:121:TYR:CD1	1:LP:36:GLY:CA	2.47	0.97
1:KJ:48:THR:N	1:LP:22:LEU:HD21	1.79	0.97
1:LK:22:LEU:HD21	1:KP:48:THR:N	1.79	0.97
2:NK:55:GLY:CA	2:FP:2:TYR:CB	2.30	0.97
1:C1:62:LEU:CD1	2:H6:54:THR:CA	2.39	0.97
1:R3:210:ASN:HD22	1:I8:71:ARG:HH22	1.12	0.97
1:Q4:62:LEU:CD1	2:n8:54:THR:CA	2.39	0.97
1:R4:105:GLU:HB3	1:BD:109:LEU:CD1	1.90	0.97
1:Q6:148:ALA:HB1	2:NJ:15:TYR:OH	1.65	0.97
1:g6:45:MET:CB	1:CP:19:LYS:CG	2.14	0.97
3:AA:114:PHE:CA	2:MK:7:MET:C	2.37	0.97
5:DB:40:THR:CG2	3:AO:197:VAL:HG12	1.94	0.97
3:AC:155:GLU:CA	1:AP:58:ILE:CD1	2.42	0.97
1:BD:99:MET:CB	1:KS:25:PHE:HD1	1.77	0.97
4:BI:32:PHE:CE2	5:FM:55:LEU:CD1	2.48	0.97
1:CK:315:ALA:HB2	1:jR:29:TYR:C	1.88	0.97
1:CK:372:VAL:HG11	2:kR:11:MET:HB2	1.46	0.97
5:EN:140:ASP:HB2	5:CN:139:LYS:CD	1.94	0.97
1:Q1:62:LEU:CD1	2:X6:54:THR:CA	2.39	0.97
1:Y1:259:PHE:HE1	1:I6:259:PHE:CE1	1.79	0.97
2:e1:54:THR:CA	1:I6:62:LEU:CD1	2.39	0.97
1:S4:105:GLU:CA	1:KS:109:LEU:CD2	2.41	0.97
2:H7:54:THR:CA	1:gR:62:LEU:CD1	2.39	0.97
1:i8:30:SER:OG	1:CD:98:ASN:ND2	1.97	0.97
3:AA:212:MET:HE2	4:BH:244:LYS:HB2	1.46	0.97
3:AB:150:TYR:HA	1:AD:145:LEU:O	1.63	0.97
5:DC:25:ARG:NH2	1:DP:103:LYS:N	2.12	0.97
2:FD:10:MET:HB2	1:KS:372:VAL:HG21	1.46	0.97
1:LD:22:LEU:HD23	1:KK:47:GLU:C	1.90	0.97
1:LD:22:LEU:HD21	1:KK:48:THR:N	1.79	0.97
2:HG:54:THR:CA	1:YL:62:LEU:CD1	2.39	0.97
1:BJ:157:LYS:NZ	2:iL:2:TYR:HE2	1.52	0.97
1:LJ:140:PHE:O	1:CS:84:GLN:CG	2.12	0.97
1:LK:22:LEU:HD21	1:KP:48:THR:CA	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:35:PHE:CD1	1:DP:384:ILE:HD13	2.00	0.97
3:AO:151:ASN:CB	1:IS:58:ILE:HD12	1.94	0.97
2:U1:11:MET:HB2	1:CJ:372:VAL:HG11	1.46	0.97
5:E2:140:ASP:HB2	5:C2:139:LYS:CD	1.94	0.97
1:C3:46:PHE:HD1	1:h7:85:TYR:HH	1.07	0.97
2:H4:54:THR:CA	1:QG:62:LEU:CD1	2.39	0.97
1:S4:259:PHE:O	1:S4:260:GLN:HB2	1.65	0.97
1:Z4:259:PHE:O	1:Z4:260:GLN:HB2	1.65	0.97
1:g4:222:SER:HA	1:CD:38:LYS:HE2	1.02	0.97
2:j4:1:MET:H3	1:CD:150:ASN:CG	1.68	0.97
5:E5:37:ASP:OD2	3:AH:197:VAL:HG21	1.64	0.97
1:Y6:62:LEU:CD1	2:RE:54:THR:CA	2.39	0.97
1:K7:259:PHE:O	1:K7:260:GLN:HB2	1.65	0.97
1:a7:259:PHE:O	1:a7:260:GLN:HB2	1.65	0.97
5:EB:37:ASP:OD2	3:AM:197:VAL:HG21	1.64	0.97
1:KD:48:THR:CA	1:KS:22:LEU:HD21	1.94	0.97
1:KD:98:ASN:ND2	1:KK:30:SER:CB	2.28	0.97
1:BE:110:LYS:HZ1	1:AP:104:ASN:HB2	1.29	0.97
5:DF:24:THR:HA	3:AO:7:GLY:N	1.61	0.97
5:EF:140:ASP:HB2	5:CF:139:LYS:CD	1.94	0.97
1:aG:20:SER:HB2	1:DK:47:GLU:CA	1.95	0.97
1:aG:259:PHE:O	1:aG:260:GLN:HB2	1.65	0.97
1:BL:259:PHE:O	1:BL:260:GLN:HB2	1.65	0.97
1:f1:62:LEU:CD1	2:HQ:54:THR:CA	2.39	0.97
5:D2:40:THR:CG2	3:AM:197:VAL:HG12	1.94	0.97
1:C3:38:LYS:HD2	1:QG:222:SER:HA	1.43	0.97
2:e4:54:THR:CA	1:Y8:62:LEU:CD1	2.39	0.97
1:g4:110:LYS:HZ1	1:AD:104:ASN:HB2	1.27	0.97
5:F5:55:LEU:HD13	4:BH:32:PHE:CE2	1.99	0.97
1:i6:53:TYR:HD1	1:BJ:222:SER:OG	1.43	0.97
1:B7:31:LYS:CA	1:BP:314:GLY:O	2.12	0.97
1:Q7:62:LEU:CD1	2:XQ:54:THR:CA	2.39	0.97
5:E9:140:ASP:HB2	5:C9:139:LYS:CD	1.94	0.97
3:AC:197:VAL:HG21	5:EN:37:ASP:OD2	1.64	0.97
1:KD:55:PHE:HD2	1:KS:58:ILE:HG21	1.15	0.97
5:FF:55:LEU:HD13	4:BO:32:PHE:CE2	1.99	0.97
1:AJ:60:GLU:HG2	1:KJ:87:GLU:N	1.80	0.97
1:KJ:98:ASN:ND2	1:JS:30:SER:CB	2.28	0.97
1:IS:60:GLU:HG2	1:JS:87:GLU:N	1.80	0.97
2:H1:2:TYR:HB3	1:f4:150:ASN:OD1	1.65	0.97
2:e4:2:TYR:HB3	1:bQ:150:ASN:OD1	1.65	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f4:38:LYS:HD2	1:C6:222:SER:HA	1.43	0.97
2:H6:2:TYR:HB3	1:Y8:150:ASN:OD1	1.65	0.97
1:S6:57:LYS:HD3	1:CS:143:GLN:NE2	1.32	0.97
1:Y6:71:ARG:HH22	1:LE:210:ASN:HD22	1.12	0.97
2:f6:54:THR:CA	1:KE:62:LEU:CD1	2.39	0.97
1:g6:62:LEU:CD1	2:JE:54:THR:CA	2.39	0.97
1:i8:53:TYR:HD1	1:BD:222:SER:OG	1.43	0.97
5:C9:275:ASN:HD22	5:OA:371:PRO:HB3	1.28	0.97
1:DD:84:GLN:CG	1:KS:140:PHE:O	2.12	0.97
1:KD:58:ILE:HB	1:KS:55:PHE:HE2	1.18	0.97
2:hE:54:THR:CA	1:CR:62:LEU:CD1	2.39	0.97
5:EF:57:GLU:HB3	4:BO:33:TYR:CZ	1.73	0.97
1:SG:259:PHE:O	1:SG:260:GLN:HB2	1.65	0.97
2:fG:2:TYR:HB3	1:gG:150:ASN:OD1	1.65	0.97
5:FI:55:LEU:HD13	4:BN:32:PHE:CE2	1.99	0.97
1:AJ:123:ASN:HD22	1:JS:21:ALA:CB	1.74	0.97
1:KJ:21:ALA:CB	1:AP:123:ASN:HD22	1.74	0.97
1:LJ:25:PHE:HD1	1:AS:99:MET:CB	1.77	0.97
1:AK:375:TRP:CD1	1:KP:368:GLU:HA	1.97	0.97
1:QL:62:LEU:CD1	2:XR:54:THR:CA	2.39	0.97
3:AM:109:LYS:H	2:LS:19:ARG:NH2	1.62	0.97
1:Y3:81:PHE:HE2	1:BK:139:ARG:HD3	1.26	0.97
1:Q4:150:ASN:OD1	2:fR:2:TYR:HB3	1.65	0.97
5:F5:55:LEU:CD1	4:BH:32:PHE:CE2	2.48	0.97
1:Q6:118:THR:CG2	1:CS:53:TYR:O	2.13	0.97
1:g6:367:PRO:CB	1:LP:375:TRP:CE3	2.48	0.97
1:h6:210:ASN:HD22	1:AE:71:ARG:HH22	1.12	0.97
1:i7:259:PHE:O	1:i7:260:GLN:HB2	1.65	0.97
3:AA:112:ILE:CD1	2:MK:16:GLU:HG3	1.94	0.97
5:DB:51:ARG:CB	3:AM:6:ARG:NE	2.28	0.97
3:AC:114:PHE:HB2	2:MP:51:GLN:CG	1.93	0.97
1:LD:25:PHE:HD1	1:BK:99:MET:CB	1.77	0.97
1:LD:35:PHE:CD1	1:DK:384:ILE:HD13	2.00	0.97
2:ND:55:GLY:HA3	2:FK:2:TYR:HB2	0.97	0.97
1:UE:259:PHE:O	1:UE:260:GLN:HB2	1.65	0.97
1:KJ:22:LEU:H	1:LP:47:GLU:CD	1.57	0.97
1:IL:62:LEU:CD1	2:fR:54:THR:CA	2.39	0.97
1:C1:150:ASN:OD1	2:P7:2:TYR:HB3	1.65	0.97
1:R1:105:GLU:HB2	1:AS:110:LYS:HE2	1.46	0.97
3:A2:209:MET:HA	4:BA:250:ILE:HD12	1.46	0.97
1:C3:62:LEU:CD1	2:n7:54:THR:CA	2.39	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f4:62:LEU:CD1	2:fG:54:THR:CA	2.39	0.97
1:i4:31:LYS:N	1:CD:314:GLY:O	1.97	0.97
5:E5:37:ASP:HB2	3:AH:197:VAL:HG11	1.47	0.97
1:S6:20:SER:HB2	1:CS:47:GLU:CA	1.95	0.97
1:C8:81:PHE:HD2	1:AE:139:ARG:HD2	1.25	0.97
1:g8:148:ALA:HB1	2:MS:15:TYR:OH	1.65	0.97
3:A9:197:VAL:HG12	5:DH:40:THR:CG2	1.94	0.97
3:A9:202:ASN:ND2	5:DH:38:TYR:HB3	1.80	0.97
4:BA:32:PHE:CE2	5:FH:55:LEU:CD1	2.48	0.97
4:BA:33:TYR:CZ	5:EH:57:GLU:HB3	1.73	0.97
4:BC:32:PHE:CE2	5:FN:55:LEU:HD13	1.99	0.97
1:AD:57:LYS:HA	3:AF:154:ILE:HB	1.43	0.97
1:AD:81:PHE:CD2	1:KK:139:ARG:NH1	2.08	0.97
1:DD:173:ALA:HB3	1:KS:33:TRP:CH2	1.84	0.97
1:FE:29:TYR:C	1:LP:98:ASN:HD21	1.71	0.97
5:EF:37:ASP:HB2	3:AO:197:VAL:HG11	1.47	0.97
1:CG:62:LEU:CD1	2:fL:54:THR:CA	2.39	0.97
1:QG:150:ASN:OD1	2:HQ:2:TYR:HB3	1.65	0.97
1:aG:57:LYS:HD3	1:DK:143:GLN:NE2	1.32	0.97
1:AK:60:GLU:HG2	1:KK:87:GLU:N	1.80	0.97
1:KK:98:ASN:ND2	1:KP:30:SER:CB	2.28	0.97
1:AP:60:GLU:HG2	1:KP:87:GLU:N	1.80	0.97
1:R1:210:ASN:HD22	1:Q6:71:ARG:HH22	1.12	0.96
1:K3:259:PHE:O	1:K3:260:GLN:HB2	1.65	0.96
1:Q3:142:PHE:O	1:X4:82:ILE:HD11	1.65	0.96
1:Y3:82:ILE:HD11	1:BK:145:LEU:HD23	1.43	0.96
2:j4:11:MET:HE3	1:CD:372:VAL:HG12	1.44	0.96
3:A5:197:VAL:HG12	5:DM:40:THR:CG2	1.94	0.96
3:A5:202:ASN:ND2	5:DM:38:TYR:HB3	1.80	0.96
3:A5:212:MET:HE2	4:BO:244:LYS:HB2	1.46	0.96
1:C6:150:ASN:OD1	2:HL:2:TYR:HB3	1.65	0.96
1:S6:16:LYS:O	1:CS:45:MET:CE	2.04	0.96
1:A7:259:PHE:HE1	1:gR:259:PHE:CE1	1.79	0.96
1:Q7:82:ILE:HD11	1:QR:142:PHE:O	1.65	0.96
2:f7:2:TYR:HB3	1:I8:150:ASN:OD1	1.65	0.96
1:S8:259:PHE:O	1:S8:260:GLN:HB2	1.65	0.96
5:FB:55:LEU:CD1	4:BM:32:PHE:CE2	2.48	0.96
1:LD:22:LEU:HD21	1:KK:48:THR:CA	1.94	0.96
1:LD:314:GLY:C	1:YG:31:LYS:HG3	1.90	0.96
1:LD:375:TRP:CE3	1:YG:367:PRO:CB	2.48	0.96
4:BF:3:ARG:CB	3:AO:194:ASN:CG	2.38	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DF:51:ARG:CB	3:AO:6:ARG:NE	2.28	0.96
3:AH:112:ILE:HD11	2:MP:23:ARG:NH1	1.77	0.96
3:AH:202:ASN:ND2	5:DI:38:TYR:HB3	1.80	0.96
1:KJ:58:ILE:CB	1:LP:55:PHE:CE2	2.42	0.96
1:LJ:22:LEU:HD23	1:JS:47:GLU:HB2	1.44	0.96
1:CK:38:LYS:HB3	1:hR:222:SER:HA	1.46	0.96
1:CK:314:GLY:O	1:jR:31:LYS:N	1.97	0.96
1:LK:25:PHE:HD1	1:BP:99:MET:CB	1.77	0.96
2:XL:11:MET:HG2	1:YL:372:VAL:HG12	1.47	0.96
5:EM:55:LEU:CD2	5:EO:21:ILE:CG2	2.38	0.96
3:AO:66:ILE:CA	2:LS:54:THR:HG21	1.93	0.96
1:BQ:259:PHE:O	1:BQ:260:GLN:HB2	1.65	0.96
2:XQ:2:TYR:HB3	1:QR:150:ASN:OD1	1.65	0.96
1:aR:259:PHE:O	1:aR:260:GLN:HB2	1.65	0.96
1:T1:29:TYR:C	1:CJ:315:ALA:HB2	1.88	0.96
3:A2:6:ARG:NE	5:DA:51:ARG:CB	2.28	0.96
3:A2:112:ILE:CG2	2:MD:5:ASN:CG	2.37	0.96
5:F2:55:LEU:CD1	4:BF:32:PHE:CE2	2.48	0.96
1:C3:372:VAL:HG12	2:H4:11:MET:HG2	1.47	0.96
1:C4:142:PHE:O	1:CG:82:ILE:HD11	1.66	0.96
1:Q4:82:ILE:HD11	1:IQ:142:PHE:O	1.65	0.96
5:D5:51:ARG:CB	3:AH:6:ARG:NE	2.28	0.96
1:C6:139:ARG:HD2	1:gG:81:PHE:HD2	1.25	0.96
1:S6:31:LYS:CA	1:AS:314:GLY:O	2.12	0.96
1:C7:31:LYS:HG3	1:LK:314:GLY:C	1.90	0.96
1:Y7:62:LEU:CD1	2:PR:54:THR:CA	2.39	0.96
2:n8:11:MET:HG2	1:IQ:372:VAL:HG12	1.47	0.96
3:A9:194:ASN:CG	4:BC:3:ARG:CB	2.38	0.96
5:DB:38:TYR:HB3	3:AO:202:ASN:ND2	1.80	0.96
5:EB:37:ASP:HB2	3:AM:197:VAL:HG11	1.47	0.96
3:AC:194:ASN:CG	4:BN:3:ARG:CB	2.38	0.96
3:AC:212:MET:HE2	4:BN:244:LYS:HB2	1.46	0.96
1:AD:60:GLU:HG2	1:KD:87:GLU:N	1.80	0.96
1:AD:82:ILE:CG1	1:KK:143:GLN:CA	2.35	0.96
1:LD:36:GLY:CA	1:DK:121:TYR:CD1	2.47	0.96
2:ND:15:TYR:OH	1:YG:148:ALA:HB1	1.65	0.96
5:EI:21:ILE:CG2	5:EO:55:LEU:CD2	2.38	0.96
1:BJ:99:MET:HB2	1:LP:25:PHE:CE1	2.00	0.96
1:LK:36:GLY:CA	1:DP:121:TYR:CD1	2.47	0.96
2:MK:2:TYR:CD1	1:KP:150:ASN:ND2	2.24	0.96
2:NK:55:GLY:HA3	2:FP:2:TYR:HB2	0.97	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:150:ASN:OD1	2:PQ:2:TYR:HB3	1.65	0.96
2:W1:54:THR:CA	1:Q6:62:LEU:CD1	2.39	0.96
1:C3:142:PHE:O	1:QG:82:ILE:HD11	1.65	0.96
1:R4:210:ASN:HD22	1:g8:71:ARG:HH22	1.12	0.96
2:U4:11:MET:HE3	1:BS:372:VAL:HG12	1.44	0.96
1:i4:153:LEU:HD23	2:HD:2:TYR:HD2	1.31	0.96
4:B5:32:PHE:CE2	5:FO:55:LEU:CD1	2.48	0.96
5:E5:36:ALA:HA	3:AH:194:ASN:CG	1.90	0.96
1:B7:30:SER:OG	1:CP:98:ASN:ND2	1.97	0.96
1:C8:82:ILE:HD11	1:AE:142:PHE:O	1.65	0.96
5:EB:140:ASP:HB2	5:CB:139:LYS:CD	1.94	0.96
3:AC:197:VAL:HG11	5:EN:37:ASP:HB2	1.47	0.96
1:LD:38:LYS:CG	1:DK:119:LYS:HZ3	1.75	0.96
2:ZE:2:TYR:HB3	1:IL:150:ASN:OD1	1.65	0.96
5:EF:36:ALA:HA	3:AO:194:ASN:CG	1.90	0.96
1:CG:150:ASN:OD1	2:HR:2:TYR:HB3	1.65	0.96
3:AI:112:ILE:HG23	2:MJ:5:ASN:C	1.26	0.96
5:FI:55:LEU:CD1	4:BN:32:PHE:CE2	2.48	0.96
1:DJ:126:VAL:HG12	1:LP:25:PHE:HZ	1.18	0.96
1:LJ:35:PHE:CD1	1:CS:384:ILE:HD13	2.00	0.96
5:EN:140:ASP:CB	5:CN:139:LYS:CD	2.44	0.96
1:I1:82:ILE:HD11	1:Y6:142:PHE:O	1.65	0.96
2:P1:11:MET:HG2	1:Q1:372:VAL:HG12	1.47	0.96
1:f1:150:ASN:OD1	2:n7:2:TYR:HB3	1.65	0.96
1:g1:85:TYR:HH	1:CQ:46:PHE:HD1	1.04	0.96
5:F2:55:LEU:HD13	4:BF:32:PHE:CE2	1.99	0.96
2:H3:2:TYR:HB3	1:C8:150:ASN:OD1	1.65	0.96
1:Q3:82:ILE:HD11	1:CR:142:PHE:O	1.65	0.96
1:T4:29:TYR:C	1:KS:98:ASN:HD21	1.71	0.96
1:T4:31:LYS:N	1:BS:314:GLY:O	1.97	0.96
1:X4:150:ASN:OD1	2:hE:2:TYR:HB3	1.65	0.96
1:g4:222:SER:HA	1:CD:38:LYS:HB3	1.46	0.96
1:S6:30:SER:OG	1:BS:98:ASN:ND2	1.97	0.96
1:g6:31:LYS:HG3	1:LP:314:GLY:C	1.90	0.96
2:n6:2:TYR:HB3	1:g7:150:ASN:OD1	1.65	0.96
1:B7:144:THR:H	1:BP:82:ILE:HD11	1.21	0.96
1:C8:81:PHE:HD2	1:AE:139:ARG:CD	1.70	0.96
2:H8:11:MET:HG2	1:QL:372:VAL:HG12	1.47	0.96
5:D9:51:ARG:CB	3:AB:6:ARG:NE	2.28	0.96
5:DA:35:ARG:NH2	1:AK:369:PHE:HE1	1.54	0.96
3:AC:6:ARG:NE	5:DN:51:ARG:CB	2.28	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:149:GLN:HB3	1:KP:80:ASP:CB	1.92	0.96
1:BD:261:ILE:CG2	1:BD:265:ASP:CG	2.35	0.96
2:FD:2:TYR:HB2	2:MS:55:GLY:HA3	0.97	0.96
1:LD:54:LEU:HD11	1:DK:116:MET:SD	2.06	0.96
2:ZE:54:THR:CA	1:IQ:62:LEU:CD1	2.39	0.96
5:DF:38:TYR:HB3	3:AI:202:ASN:ND2	1.80	0.96
3:AI:112:ILE:CA	2:MJ:5:ASN:C	2.36	0.96
5:EI:37:ASP:HB2	3:AN:197:VAL:HG11	1.47	0.96
5:EI:57:GLU:HB3	4:BN:33:TYR:CZ	1.73	0.96
2:FJ:10:MET:HB2	1:LP:372:VAL:HG21	1.46	0.96
1:RL:210:ASN:HD22	1:QR:71:ARG:HH22	1.12	0.96
2:XL:54:THR:CA	1:QR:62:LEU:CD1	2.39	0.96
3:AM:114:PHE:HA	2:LS:13:THR:OG1	0.91	0.96
1:I1:81:PHE:HD2	1:Y6:139:ARG:CD	1.70	0.96
1:S1:100:ASP:CB	1:CJ:25:PHE:O	2.14	0.96
1:b3:221:ALA:O	1:BD:38:LYS:CE	2.14	0.96
1:C4:150:ASN:OD1	2:fL:2:TYR:HB3	1.65	0.96
1:R4:105:GLU:HB2	1:BD:110:LYS:HE2	1.46	0.96
3:A5:6:ARG:NE	5:DO:51:ARG:CB	2.28	0.96
3:A5:150:TYR:CA	1:AJ:144:THR:HB	1.94	0.96
1:Y6:82:ILE:HD11	1:SE:142:PHE:O	1.65	0.96
1:C7:118:THR:CG2	1:DP:53:TYR:O	2.13	0.96
1:g8:38:LYS:HD3	1:KS:222:SER:HA	0.97	0.96
4:BA:32:PHE:CE2	5:FH:55:LEU:HD13	1.99	0.96
1:AD:108:MET:SD	1:YG:366:ASN:CA	2.54	0.96
1:KD:55:PHE:CE2	1:KS:58:ILE:HG23	1.92	0.96
1:KD:98:ASN:HD21	1:KK:30:SER:HB3	1.14	0.96
1:LD:222:SER:HA	1:YG:38:LYS:HD3	0.97	0.96
2:RE:2:TYR:HB3	1:SE:150:ASN:OD1	1.65	0.96
1:cE:259:PHE:O	1:cE:260:GLN:HB2	1.65	0.96
5:EH:140:ASP:CB	5:CH:139:LYS:CD	2.43	0.96
4:BI:250:ILE:HD12	3:AN:209:MET:HA	1.46	0.96
1:KJ:30:SER:CB	1:KP:98:ASN:ND2	2.28	0.96
1:LK:25:PHE:CE1	1:BP:99:MET:HB2	2.00	0.96
3:AN:202:ASN:ND2	5:DO:38:TYR:HB3	1.80	0.96
5:EO:140:ASP:HB2	5:CO:139:LYS:CD	1.94	0.96
1:AS:261:ILE:CG2	1:AS:265:ASP:CG	2.35	0.96
1:I3:142:PHE:O	1:QL:82:ILE:HD11	1.66	0.96
2:U4:11:MET:CG	1:BS:133:LEU:HD22	1.96	0.96
2:l4:54:THR:CA	1:YG:62:LEU:CD1	2.39	0.96
2:P6:11:MET:HG2	1:IR:372:VAL:HG12	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y6:372:VAL:HG12	2:PG:11:MET:HG2	1.48	0.96
1:i6:20:SER:HB2	1:DJ:47:GLU:CA	1.95	0.96
1:g7:142:PHE:O	1:AE:82:ILE:HD11	1.65	0.96
5:F9:55:LEU:CD1	4:BB:32:PHE:CE2	2.48	0.96
5:DA:38:TYR:HB3	3:AB:202:ASN:ND2	1.80	0.96
3:AC:194:ASN:CG	5:EN:36:ALA:HA	1.90	0.96
1:AD:58:ILE:CD1	3:AF:154:ILE:CG2	2.44	0.96
1:KD:30:SER:CB	1:JS:98:ASN:ND2	2.28	0.96
1:BE:222:SER:HA	1:CP:38:LYS:HB3	1.46	0.96
2:fG:11:MET:HG2	1:gG:372:VAL:HG12	1.47	0.96
2:nG:2:TYR:HB3	1:YR:150:ASN:OD1	1.65	0.96
1:LJ:36:GLY:HA3	1:CS:121:TYR:HE1	1.22	0.96
2:XL:2:TYR:HB3	1:YL:150:ASN:OD1	1.65	0.96
3:AO:154:ILE:HB	1:IS:144:THR:CA	1.88	0.96
1:C1:259:PHE:CE1	1:A6:259:PHE:HE1	1.79	0.96
1:I1:222:SER:HA	1:Y6:38:LYS:HD2	1.43	0.96
1:Q1:82:ILE:HD11	1:Q8:142:PHE:O	1.66	0.96
1:C4:71:ARG:HH22	1:RG:210:ASN:HD22	1.12	0.96
2:P4:2:TYR:HB3	1:AE:150:ASN:OD1	1.65	0.96
2:e4:11:MET:HG2	1:bQ:372:VAL:HG12	1.47	0.96
1:i4:366:ASN:OD1	1:LD:108:MET:SD	2.24	0.96
2:j4:11:MET:CG	1:CD:133:LEU:HD22	1.96	0.96
3:A5:197:VAL:HG21	5:EO:37:ASP:OD2	1.64	0.96
1:Q6:31:LYS:HG3	1:LJ:314:GLY:C	1.90	0.96
1:C7:148:ALA:HB1	2:NK:15:TYR:OH	1.65	0.96
2:H7:2:TYR:HB3	1:I7:150:ASN:OD1	1.65	0.96
2:f7:54:THR:CA	1:IR:62:LEU:CD1	2.39	0.96
3:A9:209:MET:HA	4:BC:250:ILE:HD12	1.46	0.96
4:B9:3:ARG:CB	3:AB:194:ASN:CG	2.38	0.96
5:EC:140:ASP:CB	5:CC:139:LYS:CD	2.44	0.96
2:HE:11:MET:HE3	1:CP:372:VAL:HG12	1.44	0.96
5:EF:140:ASP:CB	5:CF:139:LYS:CD	2.43	0.96
3:AI:194:ASN:CG	4:BM:3:ARG:CB	2.38	0.96
3:AI:197:VAL:HG11	5:EM:37:ASP:HB2	1.47	0.96
1:BJ:261:ILE:CG2	1:BJ:265:ASP:CG	2.35	0.96
1:DJ:82:ILE:CG1	1:LP:143:GLN:CA	2.42	0.96
1:aL:259:PHE:O	1:aL:260:GLN:HB2	1.65	0.96
1:A1:259:PHE:HE1	1:C6:259:PHE:CE1	1.79	0.96
1:Q1:222:SER:HA	1:Q8:38:LYS:HD2	1.43	0.96
1:X1:150:ASN:OD1	2:X3:2:TYR:HB3	1.65	0.96
2:e1:2:TYR:HB3	1:CL:150:ASN:OD1	1.65	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:194:ASN:CG	4:BA:3:ARG:CB	2.38	0.96
5:E2:36:ALA:HA	3:AF:194:ASN:CG	1.90	0.96
1:C4:372:VAL:HG12	2:fL:11:MET:HG2	1.47	0.96
2:P4:11:MET:HG2	1:AE:372:VAL:HG12	1.48	0.96
1:T4:363:PRO:HG3	2:GS:9:SER:HB2	1.45	0.96
1:X4:142:PHE:O	1:CR:82:ILE:HD11	1.65	0.96
1:f4:82:ILE:HD11	1:gG:142:PHE:O	1.65	0.96
3:A5:112:ILE:CD1	2:MJ:27:ASN:OD1	2.12	0.96
2:P6:2:TYR:HB3	1:IR:150:ASN:OD1	1.65	0.96
1:a6:259:PHE:O	1:a6:260:GLN:HB2	1.65	0.96
2:P8:2:TYR:HB3	1:CR:150:ASN:OD1	1.65	0.96
1:g8:366:ASN:CA	1:IS:108:MET:SD	2.54	0.96
1:i8:20:SER:HB2	1:DD:47:GLU:CA	1.95	0.96
3:A9:212:MET:HE2	4:BC:244:LYS:HB2	1.46	0.96
5:E9:37:ASP:OD2	3:AB:197:VAL:HG21	1.64	0.96
5:EB:140:ASP:CB	5:CB:139:LYS:CD	2.44	0.96
5:EC:21:ILE:CG2	5:EH:55:LEU:CD2	2.38	0.96
1:DD:121:TYR:CD1	1:KS:36:GLY:HA3	2.01	0.96
1:KD:108:MET:CB	1:KK:366:ASN:OD1	2.11	0.96
1:BG:259:PHE:O	1:BG:260:GLN:HB2	1.65	0.96
1:aG:31:LYS:CA	1:BK:314:GLY:O	2.12	0.96
1:LJ:45:MET:CA	1:JS:14:VAL:HG23	1.96	0.96
3:AO:64:GLN:HG2	1:IS:150:ASN:H	0.91	0.96
1:CQ:82:ILE:HD11	1:gR:142:PHE:O	1.65	0.96
1:CQ:150:ASN:OD1	2:iQ:2:TYR:HB3	1.65	0.96
1:C1:139:ARG:HD2	1:bQ:81:PHE:HD2	1.25	0.96
1:I1:142:PHE:O	1:SE:82:ILE:HD11	1.65	0.96
1:T1:366:ASN:OD1	1:LJ:108:MET:SD	2.24	0.96
1:Z1:259:PHE:O	1:Z1:260:GLN:HB2	1.65	0.96
2:W4:5:ASN:H	1:DD:153:LEU:HD11	1.31	0.96
2:j4:11:MET:HB2	1:CD:372:VAL:HG11	1.46	0.96
1:Q6:38:LYS:HD3	1:LJ:222:SER:HA	0.97	0.96
1:Y6:259:PHE:CE1	1:LE:259:PHE:HE1	1.80	0.96
2:n6:54:THR:CA	1:AE:62:LEU:CD1	2.39	0.96
1:C7:366:ASN:CA	1:AK:108:MET:SD	2.54	0.96
1:Q7:81:PHE:HD2	1:QR:139:ARG:HD2	1.25	0.96
1:g7:82:ILE:HD11	1:C8:142:PHE:O	1.65	0.96
3:A9:152:SER:N	1:AK:144:THR:HA	0.91	0.96
4:B9:32:PHE:CE2	5:FC:55:LEU:CD1	2.48	0.96
5:EA:140:ASP:CB	5:CA:139:LYS:CD	2.44	0.96
2:HE:11:MET:HB2	1:CP:372:VAL:HG11	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SE:62:LEU:CD1	2:PQ:54:THR:CA	2.39	0.96
1:aE:222:SER:HA	1:CG:38:LYS:HD2	1.43	0.96
5:EF:57:GLU:CB	4:BO:33:TYR:HE1	1.73	0.96
3:AI:194:ASN:CG	5:EM:36:ALA:HA	1.90	0.96
5:EI:37:ASP:OD2	3:AN:197:VAL:HG21	1.64	0.96
1:BJ:38:LYS:CE	1:gL:221:ALA:O	2.14	0.96
1:KJ:47:GLU:C	1:LP:22:LEU:HD23	1.90	0.96
1:KJ:108:MET:CB	1:JS:366:ASN:OD1	2.11	0.96
1:LJ:22:LEU:HD23	1:JS:47:GLU:C	1.90	0.96
1:LJ:368:GLU:CA	1:CS:375:TRP:CG	2.40	0.96
1:AK:375:TRP:HB2	1:KP:367:PRO:HB2	1.48	0.96
2:HK:2:TYR:HD2	1:jR:153:LEU:HD23	1.31	0.96
1:KK:98:ASN:HB3	1:KP:28:ASP:O	1.66	0.96
1:LK:108:MET:SD	1:jR:366:ASN:OD1	2.23	0.96
3:AM:112:ILE:HD13	2:LS:17:ASP:HB3	1.46	0.96
3:AO:66:ILE:HA	2:LS:54:THR:HG21	0.97	0.96
5:EO:140:ASP:CB	5:CO:139:LYS:CD	2.44	0.96
1:SQ:259:PHE:O	1:SQ:260:GLN:HB2	1.65	0.96
2:U1:11:MET:CG	1:CJ:133:LEU:HD22	1.96	0.96
2:m1:2:TYR:HB3	1:gR:150:ASN:OD1	1.65	0.96
5:E2:37:ASP:HB2	3:AF:197:VAL:HG11	1.47	0.96
1:Q4:142:PHE:O	1:IL:82:ILE:HD11	1.66	0.96
1:T4:30:SER:CA	1:BS:315:ALA:CB	2.43	0.96
1:X4:62:LEU:CD1	2:f8:54:THR:CA	2.39	0.96
1:X4:372:VAL:HG12	2:hE:11:MET:HG2	1.48	0.96
5:F5:55:LEU:CD1	4:BH:32:PHE:CG	2.48	0.96
1:I6:142:PHE:O	1:YR:82:ILE:HD11	1.65	0.96
1:Y6:150:ASN:OD1	2:PG:2:TYR:HB3	1.65	0.96
2:f6:2:TYR:HB3	1:QQ:150:ASN:OD1	1.65	0.96
1:C7:13:LEU:O	1:CK:45:MET:SD	2.24	0.96
1:B7:259:PHE:O	1:B7:260:GLN:HB2	1.65	0.96
1:Q7:372:VAL:HG12	2:HG:11:MET:HG2	1.47	0.96
2:X7:2:TYR:HB3	1:Y7:150:ASN:OD1	1.65	0.96
1:Y8:82:ILE:HD11	1:bQ:142:PHE:O	1.65	0.96
3:AA:194:ASN:CG	4:BH:3:ARG:CB	2.38	0.96
3:AA:194:ASN:CG	5:EH:36:ALA:HA	1.90	0.96
5:EB:36:ALA:HA	3:AM:194:ASN:CG	1.90	0.96
1:AD:118:THR:HG21	1:KK:53:TYR:O	1.66	0.96
1:FE:366:ASN:OD1	1:LP:108:MET:SD	2.24	0.96
1:DJ:84:GLN:CG	1:LP:140:PHE:O	2.12	0.96
1:KJ:367:PRO:HB2	1:AP:375:TRP:HB2	1.48	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:22:LEU:HD21	1:JS:48:THR:N	1.79	0.96
1:CK:133:LEU:HD22	2:kR:11:MET:CG	1.96	0.96
1:SL:259:PHE:O	1:SL:260:GLN:HB2	1.65	0.96
5:EM:140:ASP:CB	5:CM:139:LYS:CD	2.44	0.96
1:C1:82:ILE:HD11	1:Y8:142:PHE:O	1.65	0.95
1:Q1:142:PHE:O	1:IG:82:ILE:HD11	1.65	0.95
1:R1:259:PHE:HE1	1:Q6:259:PHE:CE1	1.79	0.95
2:W1:5:ASN:H	1:CS:153:LEU:HD11	1.31	0.95
1:f1:82:ILE:HD11	1:QG:142:PHE:O	1.66	0.95
3:A2:202:ASN:ND2	5:DC:38:TYR:HB3	1.80	0.95
2:U4:11:MET:HG2	1:BS:133:LEU:CD2	1.96	0.95
1:C6:142:PHE:O	1:gG:82:ILE:HD11	1.66	0.95
1:I6:139:ARG:CD	1:YR:81:PHE:HD2	1.70	0.95
1:g6:148:ALA:HB1	2:NP:15:TYR:OH	1.65	0.95
1:B7:20:SER:HB2	1:DP:47:GLU:CA	1.95	0.95
1:C8:222:SER:HA	1:AE:38:LYS:HD2	1.43	0.95
1:g8:118:THR:CG2	1:DD:53:TYR:O	2.13	0.95
1:i8:49:PHE:HD1	1:DD:22:LEU:CD1	1.79	0.95
5:EA:21:ILE:CG2	5:EC:55:LEU:CD2	2.38	0.95
1:AD:62:LEU:CB	1:KD:88:GLU:HB3	1.67	0.95
1:DD:104:ASN:ND2	5:DF:25:ARG:HH21	1.44	0.95
1:LD:369:PHE:HE2	1:BK:105:GLU:C	1.74	0.95
1:BE:105:GLU:HB2	1:BJ:110:LYS:HE2	1.46	0.95
1:CE:259:PHE:O	1:CE:260:GLN:HB2	1.65	0.95
1:FE:153:LEU:HD23	2:HP:2:TYR:HD2	1.31	0.95
1:aE:82:ILE:HD11	1:CG:142:PHE:O	1.65	0.95
5:FF:55:LEU:CD1	4:BO:32:PHE:CG	2.48	0.95
1:aG:49:PHE:HD1	1:DK:22:LEU:CD1	1.79	0.95
3:AI:6:ARG:NE	5:DM:51:ARG:CB	2.28	0.95
3:AI:104:GLN:HE21	2:MJ:19:ARG:HB2	1.27	0.95
1:AJ:118:THR:HG21	1:JS:53:TYR:O	1.66	0.95
1:DJ:384:ILE:HD13	1:LP:35:PHE:CD1	2.00	0.95
1:CK:25:PHE:O	1:iR:100:ASP:CB	2.14	0.95
1:CK:133:LEU:CD2	2:kR:11:MET:HG2	1.96	0.95
1:CL:82:ILE:HD11	1:YR:142:PHE:O	1.65	0.95
1:RL:259:PHE:HE1	1:QR:259:PHE:CE1	1.79	0.95
1:S1:259:PHE:O	1:S1:260:GLN:HB2	1.65	0.95
1:T1:31:LYS:N	1:CJ:314:GLY:O	1.97	0.95
1:f1:142:PHE:O	1:C3:82:ILE:HD11	1.65	0.95
3:A2:194:ASN:CG	5:EA:36:ALA:HA	1.90	0.95
4:B2:3:ARG:CB	3:AF:194:ASN:CG	2.38	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B2:32:PHE:CG	5:FA:55:LEU:CD1	2.48	0.95
1:I3:38:LYS:HD2	1:QL:222:SER:HA	1.43	0.95
1:C4:38:LYS:HD2	1:CG:222:SER:HA	1.43	0.95
2:j4:5:ASN:H	1:CD:153:LEU:HD11	1.31	0.95
3:A5:194:ASN:CG	4:BO:3:ARG:CB	2.38	0.95
1:h6:259:PHE:HE1	1:AE:259:PHE:CE1	1.80	0.95
1:S7:259:PHE:O	1:S7:260:GLN:HB2	1.65	0.95
1:I8:142:PHE:O	1:IR:82:ILE:HD11	1.65	0.95
1:g8:31:LYS:HG3	1:KS:314:GLY:C	1.90	0.95
3:A9:197:VAL:HG21	5:EC:37:ASP:OD2	1.64	0.95
5:D9:40:THR:CG2	3:AF:197:VAL:CG1	2.44	0.95
5:DB:24:THR:HA	3:AM:7:GLY:N	1.61	0.95
1:CE:100:ASP:CB	1:CP:25:PHE:O	2.14	0.95
5:FF:55:LEU:CD1	4:BO:32:PHE:CE2	2.48	0.95
2:nG:11:MET:CG	1:YR:372:VAL:HG12	1.97	0.95
1:BJ:108:MET:CE	1:LP:369:PHE:CD2	2.49	0.95
1:BK:261:ILE:CG2	1:BK:265:ASP:CG	2.35	0.95
1:C1:142:PHE:O	1:bQ:82:ILE:HD11	1.66	0.95
2:U1:1:MET:H3	1:CJ:150:ASN:CG	1.67	0.95
2:H3:54:THR:CA	1:g7:62:LEU:CD1	2.39	0.95
1:I4:82:ILE:HD11	1:QL:142:PHE:O	1.65	0.95
1:Q4:139:ARG:HD2	1:IL:81:PHE:HD2	1.25	0.95
1:S4:100:ASP:CB	1:BS:25:PHE:O	2.14	0.95
1:f4:142:PHE:O	1:C6:82:ILE:HD11	1.65	0.95
1:f4:259:PHE:CE1	1:ZG:259:PHE:HE1	1.80	0.95
3:A5:197:VAL:HG11	5:EO:37:ASP:HB2	1.47	0.95
3:A5:209:MET:HA	4:BO:250:ILE:HD12	1.46	0.95
1:I6:150:ASN:OD1	2:PL:2:TYR:HB3	1.65	0.95
1:Q6:367:PRO:CB	1:LJ:375:TRP:CE3	2.48	0.95
1:C7:367:PRO:CB	1:LK:375:TRP:CE3	2.48	0.95
2:H7:11:MET:CG	1:I7:372:VAL:HG12	1.97	0.95
3:A9:197:VAL:CG1	5:DH:40:THR:CG2	2.45	0.95
4:B9:244:LYS:HB2	3:AB:212:MET:HE2	1.46	0.95
5:E9:36:ALA:HA	3:AB:194:ASN:CG	1.90	0.95
5:E9:140:ASP:CB	5:C9:139:LYS:CD	2.44	0.95
3:AA:112:ILE:HG22	2:MK:13:THR:C	1.89	0.95
3:AA:202:ASN:ND2	5:DN:38:TYR:HB3	1.80	0.95
3:AA:209:MET:HA	4:BH:250:ILE:HD12	1.46	0.95
1:KD:47:GLU:C	1:KS:22:LEU:HD23	1.90	0.95
2:FJ:2:TYR:HD2	1:LP:153:LEU:HD11	1.25	0.95
1:LJ:25:PHE:CE1	1:AS:99:MET:HB2	2.00	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IL:142:PHE:O	1:IQ:82:ILE:HD11	1.65	0.95
5:OM:371:PRO:HB3	5:CO:275:ASN:HD22	1.28	0.95
1:CQ:372:VAL:HG12	2:iQ:11:MET:CG	1.97	0.95
1:YQ:221:ALA:O	1:AS:38:LYS:CE	2.14	0.95
2:H1:11:MET:CG	1:f4:372:VAL:HG12	1.97	0.95
1:R1:222:SER:HA	1:CJ:38:LYS:HB3	1.46	0.95
2:W1:3:GLU:O	1:CS:153:LEU:HD22	1.66	0.95
2:e1:11:MET:CG	1:CL:372:VAL:HG12	1.97	0.95
3:A2:106:ARG:CB	2:MD:13:THR:HG21	1.96	0.95
1:C3:71:ARG:HH22	1:h7:210:ASN:HD22	1.12	0.95
1:Q3:150:ASN:OD1	2:f8:2:TYR:HB3	1.65	0.95
3:A5:116:VAL:HA	2:MJ:21:ASN:CG	1.91	0.95
3:A5:194:ASN:CG	5:EO:36:ALA:HA	1.90	0.95
2:H6:11:MET:CG	1:Y8:372:VAL:HG12	1.97	0.95
1:g6:13:LEU:O	1:CP:45:MET:SD	2.24	0.95
1:C7:310:THR:HG22	1:DP:27:HIS:CE1	2.02	0.95
1:I7:82:ILE:HD11	1:CQ:142:PHE:O	1.65	0.95
1:Q7:150:ASN:OD1	2:HG:2:TYR:HB3	1.65	0.95
1:g8:367:PRO:CB	1:KS:375:TRP:CE3	2.48	0.95
1:i8:259:PHE:O	1:i8:260:GLN:HB2	1.65	0.95
3:A9:6:ARG:NE	5:DC:51:ARG:CB	2.28	0.95
4:B9:250:ILE:HD12	3:AB:209:MET:HA	1.46	0.95
1:CD:45:MET:SD	1:YG:13:LEU:O	2.24	0.95
1:KD:106:GLU:N	1:DK:109:LEU:HG	1.71	0.95
1:LD:22:LEU:HD23	1:KK:47:GLU:HB2	1.44	0.95
1:LD:58:ILE:HG21	1:KK:55:PHE:HD2	1.14	0.95
1:LD:174:MET:CE	1:YG:33:TRP:N	2.20	0.95
1:CE:105:GLU:HB3	1:LP:109:LEU:CD2	1.90	0.95
1:bE:65:ASP:O	1:bE:66:ILE:HD13	1.67	0.95
1:BJ:105:GLU:C	1:LP:369:PHE:HE2	1.74	0.95
1:LK:55:PHE:HE2	1:KP:58:ILE:HB	1.17	0.95
1:C1:372:VAL:HG12	2:P7:11:MET:CG	1.97	0.95
1:A1:65:ASP:O	1:A1:66:ILE:HD13	1.67	0.95
1:R1:222:SER:O	1:CJ:53:TYR:CE1	2.20	0.95
1:Y1:210:ASN:HD22	1:I6:71:ARG:HH22	1.12	0.95
1:Q3:139:ARG:CD	1:X4:81:PHE:HD2	1.70	0.95
1:Y3:221:ALA:O	1:BK:38:LYS:CE	2.14	0.95
1:B4:259:PHE:O	1:B4:260:GLN:HB2	1.65	0.95
1:g4:98:ASN:HB3	1:DK:28:ASP:O	1.66	0.95
1:i4:363:PRO:HG3	2:HD:9:SER:HB2	1.45	0.95
1:C6:372:VAL:HG12	2:HL:11:MET:CG	1.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X6:2:TYR:HB3	1:Q8:150:ASN:OD1	1.65	0.95
1:g6:38:LYS:HD3	1:LP:222:SER:HA	0.97	0.95
1:i6:57:LYS:HD3	1:DJ:143:GLN:NE2	1.32	0.95
1:J7:65:ASP:O	1:J7:66:ILE:HD13	1.67	0.95
1:Y7:222:SER:HA	1:KE:38:LYS:HD2	1.43	0.95
3:A9:153:ASP:CG	1:AK:145:LEU:HG	1.92	0.95
3:AA:197:VAL:HG11	5:EH:37:ASP:HB2	1.47	0.95
4:BA:32:PHE:CG	5:FH:55:LEU:CD1	2.48	0.95
1:AD:145:LEU:CG	3:AF:37:GLU:CD	2.38	0.95
1:KD:58:ILE:CB	1:KS:55:PHE:CE2	2.42	0.95
1:DE:221:ALA:O	1:BP:38:LYS:CE	2.14	0.95
1:aE:150:ASN:OD1	2:XG:2:TYR:HB3	1.65	0.95
3:AI:197:VAL:HG21	5:EM:37:ASP:OD2	1.64	0.95
2:FJ:2:TYR:HB2	2:NP:55:GLY:HA3	0.97	0.95
1:LJ:54:LEU:HD11	1:CS:116:MET:SD	2.06	0.95
1:LK:369:PHE:CD2	1:BP:108:MET:CE	2.49	0.95
1:AL:65:ASP:O	1:AL:66:ILE:HD13	1.67	0.95
1:f1:81:PHE:HD2	1:QG:139:ARG:HD2	1.25	0.95
1:I3:139:ARG:CD	1:QL:81:PHE:HD2	1.70	0.95
2:P3:2:TYR:HB3	1:IG:150:ASN:OD1	1.65	0.95
1:C4:82:ILE:HD11	1:aE:142:PHE:O	1.65	0.95
2:U4:11:MET:HB2	1:BS:372:VAL:HG11	1.46	0.95
1:g4:222:SER:O	1:CD:53:TYR:CE1	2.20	0.95
5:D5:38:TYR:HB3	3:AC:202:ASN:ND2	1.80	0.95
5:E5:140:ASP:CA	5:C5:139:LYS:CB	2.00	0.95
1:A6:65:ASP:O	1:A6:66:ILE:HD13	1.67	0.95
2:f7:11:MET:HG2	1:I8:372:VAL:HG12	1.47	0.95
3:A9:194:ASN:CG	5:EC:36:ALA:HA	1.90	0.95
1:KD:28:ASP:O	1:JS:98:ASN:HB3	1.66	0.95
1:CG:372:VAL:HG12	2:HR:11:MET:CG	1.97	0.95
1:YG:118:THR:CG2	1:DK:53:TYR:O	2.13	0.95
1:aG:144:THR:C	1:BK:82:ILE:CD1	2.35	0.95
3:AI:212:MET:HE2	4:BM:244:LYS:HB2	1.45	0.95
5:DI:51:ARG:CB	3:AN:6:ARG:NE	2.28	0.95
5:EI:140:ASP:CB	5:CI:139:LYS:CD	2.44	0.95
1:KJ:28:ASP:HB3	1:AP:304:GLN:HE22	1.02	0.95
1:LJ:143:GLN:CA	1:CS:82:ILE:CG1	2.42	0.95
2:NJ:55:GLY:HA3	2:ES:2:TYR:HB2	0.97	0.95
1:AK:118:THR:HG21	1:KP:53:TYR:O	1.66	0.95
2:XL:11:MET:CG	1:YL:372:VAL:HG12	1.97	0.95
1:DP:153:LEU:HD22	2:mR:3:GLU:O	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CQ:81:PHE:HD2	1:gR:139:ARG:CD	1.70	0.95
1:CQ:372:VAL:HG12	2:iQ:11:MET:HG2	1.47	0.95
1:R1:65:ASP:O	1:R1:66:ILE:HD13	1.67	0.95
1:T1:153:LEU:HD21	2:HJ:4:GLY:HA3	1.48	0.95
1:X1:82:ILE:HD11	1:IR:142:PHE:O	1.66	0.95
4:B2:33:TYR:HE1	5:EA:57:GLU:CB	1.73	0.95
1:R4:222:SER:O	1:BS:53:TYR:CE1	2.20	0.95
1:i4:153:LEU:HD21	2:HD:4:GLY:HA3	1.48	0.95
2:X7:11:MET:CG	1:Y7:372:VAL:HG12	1.97	0.95
3:AA:105:LYS:C	2:MK:21:ASN:ND2	2.24	0.95
4:BB:3:ARG:CB	3:AM:194:ASN:CG	2.38	0.95
5:EB:57:GLU:CB	4:BM:33:TYR:HE1	1.73	0.95
1:BD:99:MET:HB2	1:KS:25:PHE:CE1	2.00	0.95
1:KD:98:ASN:HB3	1:KK:28:ASP:O	1.66	0.95
1:FE:31:LYS:N	1:CP:314:GLY:O	1.97	0.95
1:KE:150:ASN:OD1	2:PR:2:TYR:HB3	1.65	0.95
1:LE:65:ASP:O	1:LE:66:ILE:HD13	1.67	0.95
1:TE:210:ASN:HD22	1:IQ:71:ARG:HH22	1.12	0.95
4:BF:250:ILE:HD12	3:AO:209:MET:HA	1.46	0.95
1:AJ:304:GLN:HE22	1:JS:28:ASP:HB3	1.02	0.95
2:HK:9:SER:HB2	1:jR:363:PRO:HG3	1.45	0.95
1:RL:65:ASP:O	1:RL:66:ILE:HD13	1.67	0.95
2:XQ:11:MET:HG2	1:QR:372:VAL:HG12	1.47	0.95
1:I1:372:VAL:HG12	2:PQ:11:MET:CG	1.97	0.95
2:P1:54:THR:CA	1:IG:62:LEU:CD1	2.39	0.95
4:B2:250:ILE:HD12	3:AF:209:MET:HA	1.46	0.95
5:D2:38:TYR:HB3	3:AM:202:ASN:ND2	1.80	0.95
2:H3:11:MET:CG	1:C8:372:VAL:HG12	1.97	0.95
1:I3:150:ASN:OD1	2:XR:2:TYR:HB3	1.65	0.95
1:I4:62:LEU:CD1	2:H8:54:THR:CA	2.39	0.95
1:I4:150:ASN:OD1	2:X8:2:TYR:HB3	1.65	0.95
1:R4:222:SER:HA	1:BS:38:LYS:HB3	1.46	0.95
4:B5:3:ARG:CB	3:AH:194:ASN:CG	2.38	0.95
1:I6:82:ILE:HD11	1:CL:142:PHE:O	1.65	0.95
1:S6:53:TYR:HD1	1:AS:222:SER:OG	1.43	0.95
1:g6:310:THR:HG22	1:DJ:27:HIS:CE1	2.02	0.95
1:h6:65:ASP:O	1:h6:66:ILE:HD13	1.67	0.95
1:I7:142:PHE:O	1:gR:82:ILE:HD11	1.65	0.95
2:P7:54:THR:CA	1:bQ:62:LEU:CD1	2.39	0.95
1:J8:65:ASP:O	1:J8:66:ILE:HD13	1.67	0.95
2:n8:2:TYR:HB3	1:IQ:150:ASN:OD1	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E9:57:GLU:HB3	4:BB:33:TYR:CZ	1.73	0.95
5:EA:21:ILE:O	5:EA:25:ARG:HB2	1.67	0.95
1:BD:105:GLU:C	1:KS:369:PHE:HE2	1.74	0.95
1:AJ:375:TRP:CD1	1:JS:368:GLU:HA	1.97	0.95
1:DJ:116:MET:SD	1:LP:54:LEU:HD11	2.06	0.95
1:DJ:121:TYR:CD1	1:LP:36:GLY:HA3	2.01	0.95
1:LJ:58:ILE:HG23	1:JS:55:PHE:CE2	1.92	0.95
1:LK:45:MET:CA	1:KP:14:VAL:HG23	1.96	0.95
1:LK:369:PHE:HE2	1:BP:105:GLU:C	1.74	0.95
3:AM:109:LYS:H	2:LS:19:ARG:HH22	1.05	0.95
3:AO:154:ILE:CG2	1:IS:145:LEU:HD22	1.95	0.95
1:DP:28:ASP:O	1:hR:98:ASN:HB3	1.66	0.95
1:RQ:65:ASP:O	1:RQ:66:ILE:HD13	1.67	0.95
1:C1:372:VAL:HG12	2:P7:11:MET:HG2	1.47	0.95
5:D2:51:ARG:CB	3:AF:6:ARG:NE	2.28	0.95
5:E2:21:ILE:CG2	5:E9:55:LEU:CD2	2.38	0.95
5:C2:275:ASN:HD22	5:O9:371:PRO:HB3	1.28	0.95
1:A3:65:ASP:O	1:A3:66:ILE:HD13	1.67	0.95
5:E5:140:ASP:CB	5:C5:139:LYS:CD	2.44	0.95
1:Q6:148:ALA:CA	2:NJ:15:TYR:HE2	1.80	0.95
1:Z6:65:ASP:O	1:Z6:66:ILE:HD13	1.67	0.95
1:g6:118:THR:CG2	1:DJ:53:TYR:O	2.13	0.95
1:g8:13:LEU:O	1:BS:45:MET:SD	2.24	0.95
3:AA:6:ARG:NE	5:DH:51:ARG:CB	2.28	0.95
3:AA:6:ARG:HH22	5:DH:52:LEU:HA	1.32	0.95
3:AC:114:PHE:HB2	2:MP:51:GLN:HG2	1.44	0.95
1:CD:47:GLU:CG	1:YG:20:SER:CB	2.20	0.95
1:KD:53:TYR:O	1:IS:118:THR:HG21	1.66	0.95
1:KD:99:MET:SD	1:KK:136:ASN:ND2	2.40	0.95
1:LD:55:PHE:CE2	1:KK:58:ILE:CB	2.42	0.95
1:LD:372:VAL:HG21	2:FK:10:MET:HB2	1.46	0.95
1:BE:65:ASP:O	1:BE:66:ILE:HD13	1.67	0.95
1:CG:372:VAL:HG12	2:HR:11:MET:HG2	1.47	0.95
1:LJ:36:GLY:HA3	1:CS:121:TYR:CD1	2.01	0.95
1:BP:110:LYS:HE2	1:hR:105:GLU:HB2	1.46	0.95
2:H1:11:MET:HG2	1:f4:372:VAL:HG12	1.47	0.95
2:P1:2:TYR:HB3	1:Q1:150:ASN:OD1	1.65	0.95
1:h1:259:PHE:O	1:h1:260:GLN:HB2	1.65	0.95
3:A2:212:MET:HE2	4:BA:244:LYS:HB2	1.46	0.95
1:Y4:259:PHE:HE1	1:Y8:259:PHE:CE1	1.80	0.95
3:A5:197:VAL:CG1	5:DM:40:THR:CG2	2.44	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H6:11:MET:HG2	1:Y8:372:VAL:HG12	1.47	0.95
1:g6:366:ASN:CA	1:AP:108:MET:SD	2.54	0.95
1:A7:210:ASN:HD22	1:gR:71:ARG:HH22	1.12	0.95
1:I7:139:ARG:CD	1:gR:81:PHE:HD2	1.70	0.95
1:Y7:142:PHE:O	1:QQ:82:ILE:HD11	1.66	0.95
2:H8:2:TYR:HB3	1:QL:150:ASN:OD1	1.65	0.95
5:DA:40:THR:CG2	3:AB:197:VAL:CG1	2.44	0.95
5:DB:52:LEU:HA	3:AM:6:ARG:HH22	1.32	0.95
4:BC:32:PHE:CG	5:FN:55:LEU:CD1	2.48	0.95
1:BD:105:GLU:O	1:KS:369:PHE:HE2	1.50	0.95
1:LD:36:GLY:HA3	1:DK:121:TYR:CD1	2.01	0.95
1:LD:47:GLU:HG2	1:KK:20:SER:OG	1.67	0.95
1:BE:375:TRP:CE3	1:CP:367:PRO:HG2	2.02	0.95
2:HE:11:MET:CG	1:CP:133:LEU:HD22	1.96	0.95
1:bE:85:TYR:HH	1:CR:46:PHE:HD1	1.10	0.95
5:EF:21:ILE:O	5:EF:25:ARG:HB2	1.67	0.95
1:aG:57:LYS:CE	1:DK:143:GLN:NE2	1.95	0.95
1:AJ:223:GLY:HA2	1:JS:53:TYR:CD1	2.02	0.95
1:AJ:312:PRO:CD	1:JS:27:HIS:CD2	2.50	0.95
1:AJ:375:TRP:HB2	1:JS:367:PRO:HB2	1.48	0.95
1:BJ:105:GLU:O	1:LP:369:PHE:HE2	1.50	0.95
1:KJ:99:MET:CE	1:JS:136:ASN:ND2	2.30	0.95
5:EM:21:ILE:O	5:EM:25:ARG:HB2	1.67	0.95
1:JQ:65:ASP:O	1:JQ:66:ILE:HD13	1.67	0.95
1:J1:259:PHE:HE1	1:IG:259:PHE:CE1	1.80	0.94
1:Q1:81:PHE:HD2	1:Q8:139:ARG:CD	1.70	0.94
1:R1:105:GLU:H	1:AS:110:LYS:HZ3	1.06	0.94
1:C3:150:ASN:OD1	2:H4:2:TYR:HB3	1.65	0.94
1:T4:366:ASN:OD1	1:KS:108:MET:SD	2.24	0.94
5:E5:57:GLU:CB	4:BH:33:TYR:HE1	1.73	0.94
1:Y7:81:PHE:HD2	1:KE:139:ARG:CD	1.70	0.94
2:f7:11:MET:CG	1:I8:372:VAL:HG12	1.97	0.94
5:D9:38:TYR:HB3	3:AF:202:ASN:ND2	1.80	0.94
3:AA:114:PHE:CA	2:MK:8:ARG:CA	2.45	0.94
3:AA:197:VAL:HG21	5:EH:37:ASP:OD2	1.64	0.94
1:AD:297:LEU:HD11	1:KK:29:TYR:CZ	2.02	0.94
1:DD:116:MET:SD	1:KS:54:LEU:HD11	2.06	0.94
1:DD:384:ILE:HD13	1:KS:35:PHE:CD1	2.00	0.94
1:KD:14:VAL:HG23	1:KS:45:MET:CA	1.96	0.94
1:KD:136:ASN:ND2	1:JS:99:MET:SD	2.40	0.94
1:LD:25:PHE:CE1	1:BK:99:MET:HB2	2.00	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:11:MET:HG2	1:CP:133:LEU:CD2	1.96	0.94
2:JE:5:ASN:H	1:DJ:153:LEU:HD11	1.31	0.94
3:AH:197:VAL:HG22	3:AN:13:SER:HB3	1.49	0.94
4:BI:3:ARG:CB	3:AN:194:ASN:CG	2.38	0.94
5:EI:36:ALA:HA	3:AN:194:ASN:CG	1.90	0.94
1:KJ:53:TYR:CD1	1:AP:223:GLY:HA2	2.02	0.94
1:LK:54:LEU:HD11	1:DP:116:MET:SD	2.06	0.94
1:LK:369:PHE:HE2	1:BP:105:GLU:O	1.50	0.94
3:AN:197:VAL:CG1	5:DO:40:THR:CG2	2.44	0.94
3:AO:29:ARG:CZ	1:IS:370:ASP:OD2	1.96	0.94
1:T1:30:SER:CA	1:CJ:315:ALA:CB	2.43	0.94
1:f1:372:VAL:HG12	2:n7:11:MET:CG	1.97	0.94
1:I4:46:PHE:HD1	1:A8:85:TYR:HH	1.07	0.94
3:A5:7:GLY:N	5:DO:24:THR:HA	1.60	0.94
5:D5:40:THR:CG2	3:AC:197:VAL:CG1	2.44	0.94
1:C6:372:VAL:HG12	2:HL:11:MET:HG2	1.47	0.94
1:C7:148:ALA:CA	2:NK:15:TYR:HE2	1.80	0.94
1:g8:148:ALA:CA	2:MS:15:TYR:HE2	1.80	0.94
1:g8:310:THR:HG22	1:DD:27:HIS:CE1	2.02	0.94
3:AA:112:ILE:HD12	2:MK:16:GLU:OE2	1.57	0.94
3:AA:114:PHE:CA	2:MK:8:ARG:HA	1.96	0.94
3:AB:13:SER:HB3	3:AF:197:VAL:HG22	1.49	0.94
5:EC:21:ILE:O	5:EC:25:ARG:HB2	1.67	0.94
1:KD:27:HIS:CD2	1:IS:312:PRO:CD	2.50	0.94
1:AG:65:ASP:O	1:AG:66:ILE:HD13	1.67	0.94
1:gG:62:LEU:CD1	2:HL:54:THR:CA	2.39	0.94
1:gG:259:PHE:CE1	1:AL:259:PHE:HE1	1.80	0.94
1:LK:29:TYR:C	1:BP:98:ASN:ND2	2.25	0.94
1:LK:143:GLN:CA	1:DP:82:ILE:CG1	2.42	0.94
1:R1:98:ASN:HB3	1:CS:28:ASP:O	1.66	0.94
2:U1:11:MET:HG2	1:CJ:133:LEU:CD2	1.96	0.94
1:X1:142:PHE:O	1:I8:82:ILE:HD11	1.65	0.94
1:C3:372:VAL:HG12	2:H4:11:MET:CG	1.97	0.94
1:Q3:259:PHE:CE1	1:J8:259:PHE:HE1	1.80	0.94
2:j4:11:MET:HG2	1:CD:133:LEU:CD2	1.96	0.94
1:Q6:13:LEU:O	1:CJ:45:MET:SD	2.24	0.94
1:i6:57:LYS:CE	1:DJ:143:GLN:NE2	1.95	0.94
1:Q7:372:VAL:HG12	2:HG:11:MET:CG	1.97	0.94
1:Y7:82:ILE:HD11	1:KE:142:PHE:O	1.65	0.94
5:E9:37:ASP:HB2	3:AB:197:VAL:HG11	1.47	0.94
3:AC:29:ARG:NH1	1:AP:135:ASN:C	2.24	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:29:TYR:CZ	1:IS:297:LEU:HD11	2.02	0.94
2:ZE:11:MET:CG	1:IL:372:VAL:HG12	1.97	0.94
1:aE:259:PHE:CE1	1:AR:259:PHE:HE1	1.80	0.94
5:DF:40:THR:CG2	3:AI:197:VAL:CG1	2.44	0.94
1:KG:259:PHE:O	1:KG:260:GLN:HB2	1.65	0.94
1:aG:16:LYS:O	1:DK:45:MET:CE	2.04	0.94
4:BI:32:PHE:CG	5:FM:55:LEU:CD1	2.48	0.94
5:EI:21:ILE:O	5:EI:25:ARG:HB2	1.67	0.94
1:KJ:14:VAL:HG23	1:LP:45:MET:CA	1.96	0.94
1:KJ:27:HIS:CD2	1:AP:312:PRO:CD	2.50	0.94
1:KJ:29:TYR:CZ	1:AP:297:LEU:HD11	2.02	0.94
1:LJ:22:LEU:HD23	1:JS:47:GLU:CB	1.98	0.94
1:LJ:31:LYS:CG	1:CS:316:VAL:HG13	1.97	0.94
4:BM:144:GLN:HE22	4:BO:193:VAL:HG12	1.32	0.94
1:BP:110:LYS:CE	1:hR:105:GLU:OE1	2.15	0.94
2:P1:11:MET:CG	1:Q1:372:VAL:HG12	1.97	0.94
5:D2:52:LEU:HA	3:AF:6:ARG:HH22	1.32	0.94
5:E2:140:ASP:CB	5:C2:139:LYS:CD	2.44	0.94
1:I4:259:PHE:CE1	1:A8:259:PHE:HE1	1.80	0.94
1:K4:259:PHE:O	1:K4:260:GLN:HB2	1.65	0.94
1:R4:105:GLU:OE1	1:BD:110:LYS:CE	2.15	0.94
1:T4:153:LEU:HD23	2:GS:2:TYR:HD2	1.31	0.94
1:X4:372:VAL:HG12	2:hE:11:MET:CG	1.97	0.94
1:g4:105:GLU:OE1	1:BK:110:LYS:CE	2.15	0.94
4:B5:193:VAL:HG12	4:BI:144:GLN:HE22	1.32	0.94
2:P6:11:MET:CG	1:IR:372:VAL:HG12	1.97	0.94
1:g6:20:SER:CB	1:CP:47:GLU:CG	2.20	0.94
1:C7:38:LYS:HD3	1:LK:222:SER:HA	0.97	0.94
1:Z7:65:ASP:O	1:Z7:66:ILE:HD13	1.67	0.94
1:i8:16:LYS:O	1:DD:45:MET:HE3	1.49	0.94
1:BE:222:SER:O	1:CP:53:TYR:CE1	2.20	0.94
1:KE:82:ILE:HD11	1:QQ:142:PHE:O	1.65	0.94
1:BJ:150:ASN:OD1	2:iL:1:MET:N	2.01	0.94
1:KJ:136:ASN:ND2	1:KP:99:MET:CE	2.30	0.94
1:AK:312:PRO:CD	1:KP:27:HIS:CD2	2.50	0.94
1:LK:58:ILE:HG23	1:KP:55:PHE:CE2	1.92	0.94
1:KL:259:PHE:O	1:KL:260:GLN:HB2	1.65	0.94
3:AM:13:SER:HB3	3:AO:197:VAL:HG22	1.49	0.94
1:BP:261:ILE:CG2	1:BP:265:ASP:CG	2.35	0.94
1:RR:65:ASP:O	1:RR:66:ILE:HD13	1.67	0.94
1:J3:65:ASP:O	1:J3:66:ILE:HD13	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R4:375:TRP:CE3	1:BS:367:PRO:HG2	2.02	0.94
1:X4:46:PHE:HD1	1:Z8:85:TYR:HH	1.08	0.94
1:Y4:65:ASP:O	1:Y4:66:ILE:HD13	1.67	0.94
1:I6:81:PHE:HD2	1:CL:139:ARG:CD	1.70	0.94
1:R6:65:ASP:O	1:R6:66:ILE:HD13	1.67	0.94
1:B7:49:PHE:HD1	1:DP:22:LEU:CD1	1.79	0.94
1:R8:65:ASP:O	1:R8:66:ILE:HD13	1.67	0.94
4:B9:32:PHE:CG	5:FC:55:LEU:CD1	2.48	0.94
1:KD:28:ASP:HB3	1:IS:304:GLN:HE22	1.02	0.94
1:BE:98:ASN:HB3	1:DJ:28:ASP:O	1.66	0.94
2:HE:5:ASN:H	1:CP:153:LEU:HD11	1.31	0.94
1:aG:49:PHE:HD1	1:DK:22:LEU:HD11	1.33	0.94
5:EH:21:ILE:O	5:EH:25:ARG:HB2	1.67	0.94
4:BI:244:LYS:HB2	3:AN:212:MET:HE2	1.46	0.94
1:KJ:98:ASN:HB3	1:JS:28:ASP:O	1.66	0.94
1:LJ:369:PHE:HE2	1:AS:105:GLU:C	1.74	0.94
1:YL:142:PHE:O	1:QR:82:ILE:HD11	1.65	0.94
1:ZL:65:ASP:O	1:ZL:66:ILE:HD13	1.67	0.94
2:U1:5:ASN:H	1:CJ:153:LEU:HD11	1.31	0.94
1:I3:82:ILE:HD11	1:I4:142:PHE:O	1.65	0.94
2:P3:11:MET:CG	1:IG:372:VAL:HG12	1.97	0.94
1:S3:259:PHE:O	1:S3:260:GLN:HB2	1.65	0.94
1:R4:98:ASN:HB3	1:DD:28:ASP:O	1.66	0.94
1:h4:100:ASP:CB	1:CD:25:PHE:O	2.14	0.94
2:f6:11:MET:CG	1:QQ:372:VAL:HG12	1.97	0.94
1:g6:367:PRO:CG	1:LP:375:TRP:CD2	2.34	0.94
1:B7:49:PHE:HD1	1:DP:22:LEU:HD11	1.32	0.94
1:J7:259:PHE:HE1	1:bQ:259:PHE:CE1	1.80	0.94
1:Q7:142:PHE:O	1:YL:82:ILE:HD11	1.65	0.94
2:H8:11:MET:CG	1:QL:372:VAL:HG12	1.97	0.94
1:I8:139:ARG:HD2	1:IR:81:PHE:HD2	1.25	0.94
2:n8:11:MET:CG	1:IQ:372:VAL:HG12	1.97	0.94
3:A9:154:ILE:HB	1:AK:145:LEU:CD1	1.90	0.94
1:BD:108:MET:CE	1:KS:369:PHE:CD2	2.49	0.94
1:LD:369:PHE:CD2	1:BK:108:MET:CE	2.49	0.94
1:TE:65:ASP:O	1:TE:66:ILE:HD13	1.67	0.94
1:ZG:65:ASP:O	1:ZG:66:ILE:HD13	1.67	0.94
1:AJ:82:ILE:HG13	1:JS:143:GLN:HA	1.48	0.94
1:KJ:136:ASN:ND2	1:KP:99:MET:SD	2.40	0.94
1:LJ:369:PHE:CD2	1:AS:108:MET:CE	2.49	0.94
1:CK:174:MET:CB	1:jR:33:TRP:CD2	2.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EN:21:ILE:O	5:EN:25:ARG:HB2	1.67	0.94
1:AQ:65:ASP:O	1:AQ:66:ILE:HD13	1.67	0.94
1:ZR:65:ASP:O	1:ZR:66:ILE:HD13	1.67	0.94
1:Q3:81:PHE:HD2	1:CR:139:ARG:CD	1.70	0.94
1:T4:365:HIS:NE2	2:GS:10:MET:HE3	1.83	0.94
3:A5:13:SER:HB3	3:AN:197:VAL:HG22	1.49	0.94
1:g6:71:ARG:HH22	1:BE:210:ASN:HD22	1.12	0.94
1:a8:259:PHE:O	1:a8:260:GLN:HB2	1.65	0.94
3:A9:197:VAL:HG11	5:EC:37:ASP:HB2	1.47	0.94
1:CD:45:MET:CE	1:YG:14:VAL:CB	1.81	0.94
1:KD:99:MET:CE	1:KK:136:ASN:ND2	2.30	0.94
1:KD:136:ASN:ND2	1:JS:99:MET:CE	2.30	0.94
1:KD:367:PRO:HB2	1:IS:375:TRP:HB2	1.48	0.94
1:LD:22:LEU:HD23	1:KK:47:GLU:CB	1.98	0.94
2:GE:1:MET:N	1:BP:150:ASN:OD1	2.01	0.94
4:BF:244:LYS:HB2	3:AO:212:MET:HE2	1.46	0.94
5:DF:52:LEU:HA	3:AO:6:ARG:HH22	1.32	0.94
3:AH:112:ILE:CD1	2:MP:20:LEU:HD22	1.97	0.94
5:FI:55:LEU:CD1	4:BN:32:PHE:CG	2.48	0.94
1:KJ:53:TYR:O	1:AP:118:THR:HG21	1.66	0.94
1:KK:99:MET:SD	1:KP:136:ASN:ND2	2.40	0.94
1:KK:99:MET:CE	1:KP:136:ASN:ND2	2.30	0.94
1:LK:28:ASP:OD2	1:DP:305:SER:HB3	1.67	0.94
3:AO:36:LEU:HD22	1:IS:145:LEU:HD13	1.49	0.94
1:I1:372:VAL:HG12	2:PQ:11:MET:HG2	1.48	0.94
2:W1:54:THR:CG2	2:NJ:1:MET:CE	2.46	0.94
4:B2:193:VAL:HG12	4:B9:144:GLN:HE22	1.32	0.94
1:Q3:372:VAL:HG12	2:f8:11:MET:HG2	1.48	0.94
1:C4:372:VAL:HG12	2:fL:11:MET:CG	1.97	0.94
1:I4:372:VAL:HG12	2:X8:11:MET:CG	1.97	0.94
2:P4:54:THR:CA	1:C8:62:LEU:CD1	2.39	0.94
1:R4:110:LYS:HZ1	1:IS:104:ASN:HB2	1.31	0.94
2:W4:3:GLU:O	1:DD:153:LEU:HD22	1.66	0.94
1:g4:65:ASP:O	1:g4:66:ILE:HD13	1.67	0.94
1:h4:259:PHE:O	1:h4:260:GLN:HB2	1.65	0.94
4:B5:144:GLN:HE22	4:BN:193:VAL:HG12	1.32	0.94
1:B7:16:LYS:O	1:DP:45:MET:CE	2.04	0.94
1:R7:65:ASP:O	1:R7:66:ILE:HD13	1.67	0.94
1:h7:65:ASP:O	1:h7:66:ILE:HD13	1.67	0.94
1:K8:259:PHE:O	1:K8:260:GLN:HB2	1.65	0.94
1:Q8:82:ILE:HD11	1:IG:142:PHE:O	1.65	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z8:65:ASP:O	1:Z8:66:ILE:HD13	1.67	0.94
1:i8:20:SER:OG	1:DD:47:GLU:HB3	1.51	0.94
4:BA:193:VAL:HG12	4:BC:144:GLN:HE22	1.32	0.94
5:DA:35:ARG:NH2	1:AK:369:PHE:HZ	1.55	0.94
5:EB:21:ILE:O	5:EB:25:ARG:HB2	1.67	0.94
1:AD:223:GLY:HA2	1:KK:53:TYR:CD1	2.02	0.94
1:KD:20:SER:OG	1:KS:47:GLU:HG2	1.67	0.94
1:LD:45:MET:CA	1:KK:14:VAL:HG23	1.96	0.94
1:BE:105:GLU:OE1	1:BJ:110:LYS:CE	2.15	0.94
1:FE:33:TRP:CD2	1:CP:174:MET:CB	2.50	0.94
1:hG:65:ASP:O	1:hG:66:ILE:HD13	1.67	0.94
1:DJ:316:VAL:HG13	1:LP:31:LYS:CG	1.97	0.94
1:KJ:28:ASP:O	1:KP:98:ASN:HB3	1.66	0.94
1:LJ:28:ASP:OD2	1:CS:305:SER:HB3	1.67	0.94
1:LJ:372:VAL:HG21	2:ES:10:MET:HB2	1.46	0.94
1:CK:367:PRO:HG2	1:hR:375:TRP:CE3	2.03	0.94
2:HK:4:GLY:HA3	1:jR:153:LEU:HD21	1.48	0.94
1:LK:368:GLU:HA	1:DP:375:TRP:CG	1.72	0.94
1:JL:210:ASN:HD22	1:YR:71:ARG:HH22	1.12	0.94
1:YL:139:ARG:CD	1:QR:81:PHE:HD2	1.70	0.94
5:EN:140:ASP:CA	5:CN:139:LYS:CB	2.00	0.94
2:aQ:1:MET:N	1:AS:150:ASN:OD1	2.01	0.94
1:JR:65:ASP:O	1:JR:66:ILE:HD13	1.67	0.94
1:R1:105:GLU:OE1	1:AS:110:LYS:CE	2.15	0.94
1:X1:372:VAL:HG12	2:X3:11:MET:CG	1.97	0.94
1:g1:210:ASN:HD22	1:CQ:71:ARG:HH22	1.12	0.94
2:H3:11:MET:HG2	1:C8:372:VAL:HG12	1.48	0.94
1:h4:106:GLU:OE2	1:LD:110:LYS:NZ	2.01	0.94
1:Q6:14:VAL:HB	1:CJ:45:MET:HE1	1.50	0.94
1:S6:49:PHE:HD1	1:CS:22:LEU:CD1	1.79	0.94
1:Y7:259:PHE:CE1	1:JR:259:PHE:HE1	1.79	0.94
1:AD:375:TRP:HB2	1:KK:367:PRO:HB2	1.48	0.94
1:KD:32:SER:OG	1:IS:170:GLU:CD	2.11	0.94
1:LD:31:LYS:CG	1:DK:316:VAL:HG13	1.97	0.94
1:LD:33:TRP:CE2	1:DK:174:MET:CA	2.46	0.94
2:RE:11:MET:CG	1:SE:372:VAL:HG12	1.97	0.94
1:AJ:297:LEU:HD11	1:JS:29:TYR:CZ	2.02	0.94
1:AK:297:LEU:HD11	1:KP:29:TYR:CZ	2.02	0.94
2:NK:1:MET:CE	2:mR:54:THR:CG2	2.46	0.94
3:AO:29:ARG:CG	1:IS:136:ASN:HB3	1.98	0.94
1:cQ:65:ASP:O	1:cQ:66:ILE:HD13	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R3:65:ASP:O	1:R3:66:ILE:HD13	1.67	0.94
1:i4:33:TRP:CD2	1:CD:174:MET:CB	2.50	0.94
2:l4:54:THR:CG2	2:ND:1:MET:CE	2.46	0.94
5:E5:21:ILE:O	5:E5:25:ARG:HB2	1.67	0.94
1:i6:20:SER:HB2	1:DJ:47:GLU:HB3	1.33	0.94
2:n6:11:MET:CG	1:g7:372:VAL:HG12	1.97	0.94
5:E9:57:GLU:CB	4:BB:33:TYR:HE1	1.73	0.94
1:DD:305:SER:HB3	1:KS:28:ASP:OD2	1.67	0.94
1:DD:316:VAL:HG13	1:KS:31:LYS:CG	1.97	0.94
1:KD:25:PHE:O	1:JS:100:ASP:HA	1.55	0.94
1:FE:153:LEU:HD21	2:HP:4:GLY:HA3	1.48	0.94
2:JE:54:THR:CG2	2:NP:1:MET:CE	2.46	0.94
1:aE:372:VAL:HG12	2:XG:11:MET:HG2	1.47	0.94
1:YG:310:THR:HG22	1:DK:27:HIS:CE1	2.02	0.94
1:BJ:98:ASN:ND2	1:LP:29:TYR:C	2.25	0.94
1:LK:109:LEU:CD2	1:iR:105:GLU:CA	2.41	0.94
5:EO:21:ILE:O	5:EO:25:ARG:HB2	1.67	0.94
1:I1:62:LEU:CD1	2:PG:54:THR:CA	2.39	0.93
1:Q1:259:PHE:CE1	1:R6:259:PHE:HE1	1.80	0.93
1:R1:105:GLU:N	1:AS:110:LYS:NZ	2.17	0.93
1:S1:105:GLU:CA	1:LJ:109:LEU:CD2	2.41	0.93
1:T1:33:TRP:CD2	1:CJ:174:MET:CB	2.50	0.93
1:X1:372:VAL:HG12	2:X3:11:MET:HG2	1.47	0.93
1:i4:30:SER:CA	1:CD:315:ALA:CB	2.43	0.93
2:l4:5:ASN:H	1:DK:153:LEU:HD11	1.31	0.93
5:O5:371:PRO:HB3	5:CN:275:ASN:HD22	1.28	0.93
1:Q6:54:LEU:HA	1:LJ:118:THR:HG21	1.49	0.93
1:Q6:310:THR:HG22	1:CS:27:HIS:CE1	2.02	0.93
1:i6:49:PHE:HD1	1:DJ:22:LEU:CD1	1.79	0.93
5:FB:55:LEU:CD1	4:BM:32:PHE:CG	2.48	0.93
3:AC:6:ARG:HH22	5:DN:52:LEU:HA	1.32	0.93
1:AD:312:PRO:CD	1:KK:27:HIS:CD2	2.50	0.93
1:DD:82:ILE:CG1	1:KS:143:GLN:CA	2.42	0.93
1:KE:372:VAL:HG12	2:PR:11:MET:CG	1.97	0.93
3:AH:197:VAL:CG1	5:DI:40:THR:CG2	2.45	0.93
3:AI:104:GLN:HE21	2:MJ:19:ARG:CG	1.81	0.93
1:LK:58:ILE:HG21	1:KP:55:PHE:HD2	1.15	0.93
1:g1:259:PHE:HE1	1:CQ:259:PHE:CE1	1.79	0.93
1:Q3:372:VAL:HG12	2:f8:11:MET:CG	1.97	0.93
1:J6:65:ASP:O	1:J6:66:ILE:HD13	1.67	0.93
1:C7:222:SER:OG	1:DP:53:TYR:HD1	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X7:11:MET:HG2	1:Y7:372:VAL:HG12	1.47	0.93
5:D9:52:LEU:HA	3:AB:6:ARG:HH22	1.32	0.93
3:AA:197:VAL:HG21	5:EH:37:ASP:OD1	1.69	0.93
3:AA:197:VAL:HG22	3:AC:13:SER:HB3	1.49	0.93
5:EB:37:ASP:OD1	3:AM:197:VAL:HG21	1.69	0.93
5:EB:55:LEU:CD2	5:EF:21:ILE:CG2	2.38	0.93
2:FD:11:MET:HB2	1:KS:133:LEU:HG	1.51	0.93
1:LD:29:TYR:C	1:BK:98:ASN:ND2	2.25	0.93
5:EI:37:ASP:OD1	3:AN:197:VAL:HG21	1.69	0.93
1:KJ:47:GLU:CB	1:LP:22:LEU:HD23	1.97	0.93
1:LJ:25:PHE:CD1	1:AS:99:MET:CB	2.50	0.93
1:AK:123:ASN:HD22	1:KP:21:ALA:CB	1.74	0.93
1:LK:38:LYS:HG3	1:DP:119:LYS:NZ	1.83	0.93
1:IL:71:ARG:HH22	1:ZR:210:ASN:HD22	1.12	0.93
1:AR:65:ASP:O	1:AR:66:ILE:HD13	1.67	0.93
1:KR:259:PHE:O	1:KR:260:GLN:HB2	1.65	0.93
1:SR:259:PHE:O	1:SR:260:GLN:HB2	1.65	0.93
1:IS:62:LEU:HB3	1:JS:88:GLU:HB2	1.51	0.93
3:A2:112:ILE:CG2	2:MD:5:ASN:ND2	2.31	0.93
5:D2:40:THR:CG2	3:AM:197:VAL:CG1	2.45	0.93
2:d3:1:MET:N	1:BD:150:ASN:OD1	2.01	0.93
1:S4:106:GLU:OE2	1:KS:110:LYS:NZ	2.01	0.93
1:T4:33:TRP:CD2	1:BS:174:MET:CB	2.50	0.93
3:A5:197:VAL:HG22	3:AI:13:SER:HB3	1.49	0.93
1:Q6:366:ASN:CA	1:AJ:108:MET:SD	2.54	0.93
1:Z6:210:ASN:HD22	1:KE:71:ARG:HH22	1.12	0.93
1:A8:65:ASP:O	1:A8:66:ILE:HD13	1.67	0.93
1:KD:47:GLU:C	1:KS:22:LEU:CD2	2.42	0.93
1:LD:25:PHE:CD1	1:BK:99:MET:CB	2.50	0.93
1:bE:259:PHE:HE1	1:CR:259:PHE:CE1	1.80	0.93
3:AH:112:ILE:HG23	2:MP:20:LEU:HD23	1.47	0.93
1:LJ:369:PHE:HE2	1:AS:105:GLU:O	1.50	0.93
1:CK:53:TYR:CE1	1:hR:222:SER:O	2.20	0.93
1:LK:22:LEU:HD23	1:KP:47:GLU:CB	1.97	0.93
1:LK:36:GLY:HA3	1:DP:121:TYR:CD1	2.01	0.93
3:AM:112:ILE:HG13	2:LS:17:ASP:OD2	1.69	0.93
1:BR:259:PHE:O	1:BR:260:GLN:HB2	1.65	0.93
1:X1:259:PHE:CE1	1:J6:259:PHE:HE1	1.80	0.93
1:Y1:65:ASP:O	1:Y1:66:ILE:HD13	1.67	0.93
5:E2:21:ILE:O	5:E2:25:ARG:HB2	1.67	0.93
1:B3:259:PHE:O	1:B3:260:GLN:HB2	1.65	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J4:65:ASP:O	1:J4:66:ILE:HD13	1.67	0.93
2:W4:54:THR:CG2	2:MS:1:MET:CE	2.46	0.93
4:B5:33:TYR:HE1	5:EO:57:GLU:CB	1.73	0.93
2:P8:11:MET:HG2	1:CR:372:VAL:HG12	1.48	0.93
5:DB:40:THR:CG2	3:AO:197:VAL:CG1	2.44	0.93
2:JE:3:GLU:O	1:DJ:153:LEU:HD22	1.66	0.93
1:ME:259:PHE:O	1:ME:260:GLN:HB2	1.65	0.93
1:JG:65:ASP:O	1:JG:66:ILE:HD13	1.67	0.93
4:BH:193:VAL:HG12	4:BN:144:GLN:HE22	1.32	0.93
1:KJ:55:PHE:HD2	1:LP:58:ILE:HG21	1.14	0.93
1:LJ:29:TYR:C	1:AS:98:ASN:ND2	2.25	0.93
1:CK:315:ALA:CB	1:jR:30:SER:CA	2.43	0.93
3:AO:64:GLN:HB3	1:IS:150:ASN:CG	1.94	0.93
1:hR:65:ASP:O	1:hR:66:ILE:HD13	1.67	0.93
1:C1:71:ARG:HH22	1:A6:210:ASN:HD22	1.12	0.93
1:A1:210:ASN:HD22	1:C6:71:ARG:HH22	1.12	0.93
1:B1:259:PHE:O	1:B1:260:GLN:HB2	1.65	0.93
1:R1:110:LYS:NZ	1:AJ:104:ASN:HB2	1.84	0.93
1:g1:65:ASP:O	1:g1:66:ILE:HD13	1.67	0.93
1:g4:375:TRP:CE3	1:CD:367:PRO:HG2	2.02	0.93
5:E5:55:LEU:CD2	5:EN:21:ILE:CG2	2.38	0.93
1:I6:367:PRO:HG2	1:YR:375:TRP:CZ3	2.04	0.93
2:X6:11:MET:CG	1:Q8:372:VAL:HG12	1.97	0.93
1:g6:222:SER:OG	1:DJ:53:TYR:HD1	1.51	0.93
1:i6:259:PHE:O	1:i6:260:GLN:HB2	1.65	0.93
3:AA:197:VAL:CG1	5:DN:40:THR:CG2	2.44	0.93
3:AC:197:VAL:HG22	3:AH:13:SER:HB3	1.49	0.93
1:BD:98:ASN:ND2	1:KS:29:TYR:C	2.25	0.93
1:CE:106:GLU:OE2	1:LP:110:LYS:NZ	2.01	0.93
1:KE:372:VAL:HG12	2:PR:11:MET:HG2	1.47	0.93
5:OF:371:PRO:HB3	5:CM:275:ASN:HD22	1.28	0.93
1:QG:372:VAL:HG12	2:HQ:11:MET:CG	1.97	0.93
1:DJ:82:ILE:CD1	1:LP:144:THR:H	1.82	0.93
1:LJ:38:LYS:HG3	1:CS:119:LYS:NZ	1.83	0.93
1:LJ:372:VAL:CB	2:ES:10:MET:HB2	1.99	0.93
1:CQ:375:TRP:CZ3	1:gR:367:PRO:HG2	2.04	0.93
1:I1:375:TRP:CZ3	1:Y6:367:PRO:HG2	2.04	0.93
1:J1:65:ASP:O	1:J1:66:ILE:HD13	1.67	0.93
3:A2:197:VAL:HG11	5:EA:37:ASP:HB2	1.48	0.93
1:T4:153:LEU:HD21	2:GS:4:GLY:HA3	1.48	0.93
2:U4:1:MET:H3	1:BS:150:ASN:CG	1.67	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:150:TYR:CB	1:AJ:144:THR:HA	1.87	0.93
1:I6:372:VAL:HG12	2:PL:11:MET:CG	1.97	0.93
1:S6:259:PHE:O	1:S6:260:GLN:HB2	1.65	0.93
2:X7:54:THR:CA	1:QQ:62:LEU:CD1	2.39	0.93
1:I8:367:PRO:HG2	1:IR:375:TRP:CZ3	2.04	0.93
1:i8:49:PHE:HD1	1:DD:22:LEU:HD11	1.33	0.93
1:iG:259:PHE:O	1:iG:260:GLN:HB2	1.65	0.93
1:AK:82:ILE:HG13	1:KP:143:GLN:HA	1.48	0.93
1:LK:31:LYS:CG	1:DP:316:VAL:HG13	1.97	0.93
1:YL:367:PRO:HG2	1:QR:375:TRP:CZ3	2.04	0.93
1:J1:210:ASN:HD22	1:IG:71:ARG:HH22	1.12	0.93
1:R4:65:ASP:O	1:R4:66:ILE:HD13	1.67	0.93
2:W4:54:THR:HG23	2:MS:1:MET:SD	2.09	0.93
1:g4:110:LYS:NZ	1:AD:104:ASN:HB2	1.84	0.93
1:K6:259:PHE:O	1:K6:260:GLN:HB2	1.65	0.93
1:A7:65:ASP:O	1:A7:66:ILE:HD13	1.67	0.93
1:C8:375:TRP:CZ3	1:AE:367:PRO:HG2	2.04	0.93
3:AB:148:ILE:HB	1:AD:146:ALA:CB	1.98	0.93
1:DD:178:TYR:HB2	1:KS:35:PHE:CZ	2.04	0.93
1:LD:22:LEU:CD2	1:KK:47:GLU:C	2.42	0.93
1:LD:28:ASP:OD2	1:DK:305:SER:HB3	1.67	0.93
1:KE:375:TRP:CZ3	1:QQ:367:PRO:HG2	2.04	0.93
1:LJ:47:GLU:HG2	1:JS:20:SER:OG	1.67	0.93
1:AK:170:GLU:CD	1:KP:32:SER:OG	2.11	0.93
1:CK:372:VAL:CG1	2:kR:11:MET:CE	2.46	0.93
1:LK:35:PHE:CZ	1:DP:178:TYR:HB2	2.04	0.93
1:QL:259:PHE:CE1	1:RR:259:PHE:HE1	1.80	0.93
1:KQ:259:PHE:O	1:KQ:260:GLN:HB2	1.65	0.93
1:R1:222:SER:HB2	1:CJ:38:LYS:HA	1.51	0.93
1:R1:375:TRP:CE3	1:CJ:367:PRO:HG2	2.02	0.93
1:S1:106:GLU:OE2	1:LJ:110:LYS:NZ	2.01	0.93
1:X1:375:TRP:CZ3	1:IR:367:PRO:HG2	2.04	0.93
2:m1:11:MET:CG	1:gR:372:VAL:HG12	1.97	0.93
3:A2:197:VAL:HG21	5:EA:37:ASP:OD1	1.69	0.93
1:I3:372:VAL:HG12	2:XR:11:MET:CG	1.97	0.93
2:a3:1:MET:N	1:BK:150:ASN:OD1	2.01	0.93
1:Q4:372:VAL:HG12	2:fR:11:MET:CG	1.97	0.93
1:Q4:375:TRP:CZ3	1:IQ:367:PRO:HG2	2.04	0.93
2:U4:11:MET:CE	1:BS:372:VAL:CG1	2.46	0.93
5:E5:37:ASP:OD1	3:AH:197:VAL:HG21	1.69	0.93
1:B6:259:PHE:O	1:B6:260:GLN:HB2	1.65	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:14:VAL:HB	1:CP:45:MET:HE1	1.50	0.93
1:C7:259:PHE:CE1	1:hR:259:PHE:HE1	1.80	0.93
1:Y7:367:PRO:HG2	1:QQ:375:TRP:CZ3	2.04	0.93
2:P8:11:MET:CG	1:CR:372:VAL:HG12	1.97	0.93
3:A9:29:ARG:CG	1:AK:370:ASP:OD2	2.16	0.93
5:F9:55:LEU:CD1	4:BB:32:PHE:CG	2.48	0.93
1:AD:170:GLU:CD	1:KK:32:SER:OG	2.11	0.93
1:KD:47:GLU:CB	1:KS:22:LEU:HD23	1.98	0.93
2:ND:15:TYR:HE2	1:YG:148:ALA:CA	1.80	0.93
1:SE:259:PHE:CE1	1:JQ:259:PHE:HE1	1.80	0.93
1:RG:65:ASP:O	1:RG:66:ILE:HD13	1.67	0.93
4:BI:250:ILE:HD11	3:AN:208:LYS:O	1.69	0.93
1:KJ:20:SER:OG	1:LP:47:GLU:HG2	1.67	0.93
1:KJ:49:PHE:HB2	1:LP:22:LEU:HD11	1.51	0.93
1:CK:53:TYR:O	1:hR:118:THR:CG2	2.17	0.93
2:NK:1:MET:SD	2:mR:54:THR:HG23	2.09	0.93
1:JL:65:ASP:O	1:JL:66:ILE:HD13	1.67	0.93
1:dQ:259:PHE:O	1:dQ:260:GLN:HB2	1.65	0.93
1:T1:365:HIS:NE2	2:HJ:10:MET:HE3	1.83	0.93
1:X1:367:PRO:HG2	1:I8:375:TRP:CZ3	2.04	0.93
1:f1:71:ARG:HH22	1:AQ:210:ASN:HD22	1.12	0.93
1:C3:367:PRO:HG2	1:QG:375:TRP:CZ3	2.04	0.93
1:I3:375:TRP:CZ3	1:I4:367:PRO:HG2	2.04	0.93
1:C4:375:TRP:CZ3	1:aE:367:PRO:HG2	2.04	0.93
2:l4:54:THR:HG23	2:ND:1:MET:SD	2.09	0.93
1:i6:49:PHE:HD1	1:DJ:22:LEU:HD11	1.33	0.93
1:I7:367:PRO:HG2	1:gR:375:TRP:CZ3	2.04	0.93
1:J7:210:ASN:HD22	1:bQ:71:ARG:HH22	1.12	0.93
1:Q8:375:TRP:CZ3	1:IG:367:PRO:HG2	2.04	0.93
3:A9:154:ILE:C	1:AK:139:ARG:NH2	2.19	0.93
3:AB:114:PHE:CG	1:AD:360:LEU:CD2	2.51	0.93
3:AB:116:VAL:HA	2:MD:19:ARG:CG	1.98	0.93
1:KD:55:PHE:HD1	1:IS:120:LEU:CD1	1.72	0.93
1:CG:71:ARG:HH22	1:ZL:210:ASN:HD22	1.12	0.93
1:LJ:55:PHE:CE2	1:JS:58:ILE:CB	2.42	0.93
1:AK:81:PHE:CD2	1:KP:139:ARG:NH1	2.08	0.93
1:iR:259:PHE:O	1:iR:260:GLN:HB2	1.65	0.93
1:X1:71:ARG:HH22	1:J6:210:ASN:HD22	1.12	0.93
1:f1:372:VAL:HG12	2:n7:11:MET:HG2	1.47	0.93
1:I3:62:LEU:CD1	2:X8:54:THR:CA	2.39	0.93
1:Q3:62:LEU:CD1	2:P8:54:THR:CA	2.39	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g4:105:GLU:N	1:BK:110:LYS:NZ	2.17	0.93
5:C5:275:ASN:HD22	5:OI:371:PRO:HB3	1.28	0.93
1:I6:375:TRP:CZ3	1:CL:367:PRO:HG2	2.04	0.93
1:Q6:45:MET:CG	1:CJ:14:VAL:HA	1.99	0.93
1:S6:49:PHE:HD1	1:CS:22:LEU:HD11	1.32	0.93
1:C7:148:ALA:C	2:NK:15:TYR:HE2	1.73	0.93
1:LD:375:TRP:CZ3	1:YG:367:PRO:HG2	1.74	0.93
1:BE:105:GLU:H	1:BJ:110:LYS:HZ3	1.02	0.93
1:TE:259:PHE:HE1	1:IQ:259:PHE:CE1	1.80	0.93
1:aE:375:TRP:CZ3	1:CG:367:PRO:HG2	2.04	0.93
1:BJ:99:MET:CB	1:LP:25:PHE:CD1	2.50	0.93
1:DJ:305:SER:HB3	1:LP:28:ASP:OD2	1.67	0.93
3:AM:108:THR:C	2:LS:19:ARG:HH22	1.63	0.93
3:A2:208:LYS:O	4:BA:250:ILE:HD11	1.69	0.92
2:e4:11:MET:CG	1:bQ:372:VAL:HG12	1.97	0.92
1:g6:148:ALA:CA	2:NP:15:TYR:HE2	1.80	0.92
1:C7:71:ARG:HH22	1:hR:210:ASN:HD22	1.12	0.92
1:R7:210:ASN:HD22	1:QQ:71:ARG:HH22	1.12	0.92
1:Z7:259:PHE:HE1	1:IR:259:PHE:CE1	1.79	0.92
1:h8:65:ASP:O	1:h8:66:ILE:HD13	1.67	0.92
3:A9:154:ILE:HA	1:AK:139:ARG:NH2	1.84	0.92
3:A9:197:VAL:HG22	3:AA:13:SER:HB3	1.49	0.92
1:KD:22:LEU:H	1:KS:47:GLU:CD	1.57	0.92
1:LD:369:PHE:HE2	1:BK:105:GLU:O	1.50	0.92
1:LD:372:VAL:CB	2:FK:10:MET:HB2	1.99	0.92
1:CE:105:GLU:CA	1:LP:109:LEU:CD2	2.41	0.92
1:AJ:120:LEU:CD1	1:JS:55:PHE:HD1	1.72	0.92
1:AJ:297:LEU:HD11	1:JS:29:TYR:HH	1.24	0.92
1:KK:107:LEU:CB	1:KP:369:PHE:CZ	2.53	0.92
1:LK:25:PHE:CD1	1:BP:99:MET:CB	2.50	0.92
1:LK:47:GLU:HG2	1:KP:20:SER:OG	1.67	0.92
3:A2:197:VAL:CG1	5:DC:40:THR:CG2	2.44	0.92
5:D2:28:TYR:HD2	1:AD:369:PHE:HE1	0.98	0.92
1:A3:259:PHE:HE1	1:g7:259:PHE:CE1	1.80	0.92
1:I4:71:ARG:HH22	1:A8:210:ASN:HD22	1.12	0.92
1:R4:222:SER:HB2	1:BS:38:LYS:HA	1.51	0.92
5:E5:21:ILE:CG2	5:EI:55:LEU:CD2	2.38	0.92
1:C7:45:MET:CG	1:CK:14:VAL:HA	1.99	0.92
1:Q7:259:PHE:CE1	1:RQ:259:PHE:HE1	1.79	0.92
1:Q7:367:PRO:HG2	1:YL:375:TRP:CZ3	2.04	0.92
1:Q7:375:TRP:CZ3	1:QR:367:PRO:HG2	2.04	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F9:41:ASN:OD1	4:BB:38:GLN:NE2	2.02	0.92
5:FB:41:ASN:OD1	4:BM:38:GLN:NE2	2.02	0.92
2:fG:11:MET:CG	1:gG:372:VAL:HG12	1.97	0.92
5:CH:275:ASN:HD22	5:ON:371:PRO:HB3	1.28	0.92
1:DJ:178:TYR:HB2	1:LP:35:PHE:CZ	2.04	0.92
1:KJ:80:ASP:CB	3:AN:64:GLN:HA	2.00	0.92
1:KJ:99:MET:SD	1:JS:136:ASN:ND2	2.40	0.92
1:LJ:261:ILE:HD13	1:LJ:265:ASP:CG	1.94	0.92
1:LK:22:LEU:CD2	1:KP:47:GLU:C	2.42	0.92
1:LK:144:THR:H	1:DP:82:ILE:CD1	1.81	0.92
1:BP:110:LYS:NZ	1:hR:105:GLU:N	2.16	0.92
2:XQ:11:MET:CG	1:QR:372:VAL:HG12	1.97	0.92
5:O2:371:PRO:HB3	5:CB:275:ASN:HD22	1.28	0.92
1:I3:46:PHE:HD1	1:R8:85:TYR:HH	1.15	0.92
1:R3:259:PHE:HE1	1:I8:259:PHE:CE1	1.80	0.92
1:A4:65:ASP:O	1:A4:66:ILE:HD13	1.67	0.92
1:f4:375:TRP:CZ3	1:gG:367:PRO:HG2	2.04	0.92
1:h4:105:GLU:CA	1:LD:109:LEU:CD2	2.41	0.92
1:g7:375:TRP:CZ3	1:C8:367:PRO:HG2	2.04	0.92
1:A8:261:ILE:HG21	1:B8:260:GLN:OE1	1.70	0.92
3:A9:6:ARG:HH22	5:DC:52:LEU:HA	1.32	0.92
4:BA:38:GLN:NE2	5:FH:41:ASN:OD1	2.02	0.92
3:AB:151:ASN:OD1	1:AD:145:LEU:HD11	1.69	0.92
5:CC:275:ASN:HD22	5:OH:371:PRO:HB3	1.28	0.92
1:LD:261:ILE:HD13	1:LD:265:ASP:CG	1.94	0.92
5:FF:41:ASN:OD1	4:BO:38:GLN:NE2	2.02	0.92
1:RG:261:ILE:HG21	1:SG:260:GLN:OE1	1.70	0.92
1:gG:71:ARG:HH22	1:AL:210:ASN:HD22	1.12	0.92
1:KJ:143:GLN:HA	1:AP:82:ILE:HG13	1.48	0.92
1:AK:62:LEU:HB2	1:KK:88:GLU:HB2	0.93	0.92
1:LK:372:VAL:CB	2:FP:10:MET:HB2	1.99	0.92
1:I1:367:PRO:HG2	1:SE:375:TRP:CZ3	2.04	0.92
1:J1:261:ILE:HG21	1:K1:260:GLN:OE1	1.70	0.92
2:U1:11:MET:CE	1:CJ:372:VAL:CG1	2.46	0.92
3:A2:33:ASN:HD22	1:AK:58:ILE:HG13	1.34	0.92
4:B2:144:GLN:HE22	4:BB:193:VAL:HG12	1.32	0.92
1:C3:259:PHE:CE1	1:h7:259:PHE:HE1	1.80	0.92
1:I3:367:PRO:HG2	1:QL:375:TRP:CZ3	2.04	0.92
1:J3:210:ASN:HD22	1:Q8:71:ARG:HH22	1.12	0.92
1:Q4:259:PHE:CE1	1:h8:259:PHE:HE1	1.79	0.92
1:Q6:222:SER:OG	1:CS:53:TYR:HD1	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B7:16:LYS:O	1:DP:45:MET:HE3	1.49	0.92
1:R7:261:ILE:HG21	1:S7:260:GLN:OE1	1.70	0.92
1:Z7:261:ILE:HG21	1:a7:260:GLN:OE1	1.70	0.92
1:g7:367:PRO:HG2	1:AE:375:TRP:CZ3	2.04	0.92
1:AD:120:LEU:CD1	1:KK:55:PHE:HD1	1.72	0.92
1:DD:121:TYR:HE1	1:KS:36:GLY:HA3	1.22	0.92
2:MD:15:TYR:O	1:KK:145:LEU:CD2	2.18	0.92
2:ZE:11:MET:HG2	1:IL:372:VAL:HG12	1.47	0.92
3:AF:13:SER:HB3	3:AM:197:VAL:HG22	1.49	0.92
1:AG:261:ILE:HG21	1:BG:260:GLN:OE1	1.70	0.92
3:AI:197:VAL:HG21	5:EM:37:ASP:OD1	1.68	0.92
4:BI:38:GLN:NE2	5:FM:41:ASN:OD1	2.02	0.92
5:FI:41:ASN:OD1	4:BN:38:GLN:NE2	2.03	0.92
1:KJ:32:SER:OG	1:AP:170:GLU:CD	2.11	0.92
1:KJ:47:GLU:C	1:LP:22:LEU:CD2	2.42	0.92
1:LJ:35:PHE:CZ	1:CS:178:TYR:HB2	2.04	0.92
1:AK:104:ASN:HB2	1:hR:110:LYS:NZ	1.84	0.92
2:HK:10:MET:HE3	1:jR:365:HIS:NE2	1.83	0.92
1:Q1:367:PRO:HG2	1:IG:375:TRP:CZ3	2.04	0.92
1:Q1:375:TRP:CZ3	1:Q8:367:PRO:HG2	2.04	0.92
4:B2:38:GLN:NE2	5:FA:41:ASN:OD1	2.02	0.92
5:F2:41:ASN:OD1	4:BF:38:GLN:NE2	2.02	0.92
5:F2:55:LEU:CD1	4:BF:32:PHE:CG	2.48	0.92
2:P3:11:MET:HG2	1:IG:372:VAL:HG12	1.47	0.92
2:P3:54:THR:CA	1:Q8:62:LEU:CD1	2.39	0.92
1:Q4:71:ARG:HH22	1:h8:210:ASN:HD22	1.12	0.92
1:R4:118:THR:CG2	1:BS:53:TYR:O	2.17	0.92
1:R4:261:ILE:HG21	1:S4:260:GLN:OE1	1.70	0.92
1:g4:261:ILE:HG21	1:h4:260:GLN:OE1	1.70	0.92
1:S6:20:SER:OG	1:CS:47:GLU:HB3	1.51	0.92
2:H7:11:MET:HG2	1:I7:372:VAL:HG12	1.47	0.92
1:Y8:375:TRP:CZ3	1:bQ:367:PRO:HG2	2.04	0.92
1:AD:54:LEU:CB	3:AF:151:ASN:CB	2.45	0.92
2:JE:54:THR:HG23	2:NP:1:MET:SD	2.09	0.92
3:AI:6:ARG:HH22	5:DM:52:LEU:HA	1.32	0.92
5:EI:57:GLU:CB	4:BN:33:TYR:HE1	1.73	0.92
1:AJ:170:GLU:CD	1:JS:32:SER:OG	2.11	0.92
1:AJ:174:MET:HA	1:JS:33:TRP:CE2	2.05	0.92
2:FJ:10:MET:HB2	1:LP:372:VAL:CB	1.99	0.92
1:KJ:145:LEU:CD2	2:MP:15:TYR:O	2.18	0.92
1:LJ:153:LEU:HD11	2:ES:2:TYR:HD2	1.25	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:62:LEU:HB3	1:KK:88:GLU:HB2	1.50	0.92
1:LK:36:GLY:HA3	1:DP:121:TYR:HE1	1.23	0.92
1:LK:57:LYS:NZ	1:DP:87:GLU:OE2	2.03	0.92
1:LK:110:LYS:NZ	1:iR:106:GLU:OE2	2.01	0.92
3:A2:6:ARG:HH22	5:DA:52:LEU:HA	1.32	0.92
5:E2:37:ASP:OD1	3:AF:197:VAL:HG21	1.68	0.92
1:R4:105:GLU:H	1:BD:110:LYS:HZ1	1.10	0.92
1:g4:105:GLU:H	1:BK:110:LYS:HZ1	1.10	0.92
2:j4:11:MET:CE	1:CD:372:VAL:CG1	2.46	0.92
1:Y6:375:TRP:CZ3	1:SE:367:PRO:HG2	2.04	0.92
2:f6:11:MET:HG2	1:QQ:372:VAL:HG12	1.47	0.92
1:B7:53:TYR:HD1	1:BP:222:SER:OG	1.43	0.92
1:Z8:261:ILE:HG21	1:a8:260:GLN:OE1	1.70	0.92
1:DD:87:GLU:OE2	1:KS:57:LYS:NZ	2.03	0.92
1:DD:119:LYS:NZ	1:KS:38:LYS:HG3	1.83	0.92
1:KD:152:ALA:HB2	2:LS:15:TYR:CE2	2.05	0.92
1:LD:36:GLY:HA3	1:DK:121:TYR:HE1	1.23	0.92
1:LD:55:PHE:HE2	1:KK:58:ILE:HB	1.18	0.92
1:LD:57:LYS:NZ	1:DK:87:GLU:OE2	2.03	0.92
1:LD:369:PHE:CD2	1:BK:108:MET:HE3	2.05	0.92
2:MD:15:TYR:CE2	1:KK:152:ALA:HB2	2.05	0.92
3:AI:112:ILE:HD12	2:MJ:6:ASN:H	1.15	0.92
5:DI:52:LEU:HA	3:AN:6:ARG:HH22	1.32	0.92
1:KJ:45:MET:CG	1:LP:14:VAL:O	2.10	0.92
1:AK:174:MET:HA	1:KP:33:TRP:CE2	2.05	0.92
1:JR:261:ILE:HG21	1:KR:260:GLN:OE1	1.70	0.92
1:C1:375:TRP:CZ3	1:Y8:367:PRO:HG2	2.04	0.92
1:Y1:261:ILE:HG21	1:Z1:260:GLN:OE1	1.70	0.92
1:f1:375:TRP:CZ3	1:QG:367:PRO:HG2	2.04	0.92
5:E2:37:ASP:CB	3:AF:197:VAL:HG21	1.99	0.92
1:I4:375:TRP:CZ3	1:QL:367:PRO:HG2	2.04	0.92
1:g4:118:THR:CG2	1:CD:53:TYR:O	2.17	0.92
1:S6:16:LYS:O	1:CS:45:MET:HE3	1.49	0.92
1:i6:16:LYS:O	1:DJ:45:MET:HE3	1.49	0.92
1:A7:261:ILE:HG21	1:B7:260:GLN:OE1	1.70	0.92
1:Q7:81:PHE:HD2	1:QR:139:ARG:CD	1.70	0.92
4:B9:38:GLN:NE2	5:FC:41:ASN:OD1	2.02	0.92
3:AA:115:ILE:HG12	2:MK:7:MET:HE3	1.49	0.92
1:DD:81:PHE:HE2	1:KS:139:ARG:HB2	1.32	0.92
1:KD:139:ARG:NH1	1:IS:81:PHE:CD2	2.08	0.92
1:BE:105:GLU:H	1:BJ:110:LYS:HZ1	1.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:105:GLU:N	1:BJ:110:LYS:NZ	2.17	0.92
1:KJ:49:PHE:CB	1:LP:22:LEU:HD11	2.00	0.92
2:MJ:15:TYR:O	1:JS:145:LEU:CD2	2.18	0.92
1:AK:223:GLY:HA2	1:KP:53:TYR:CD1	2.02	0.92
1:CK:372:VAL:HG11	2:kR:11:MET:HE2	1.52	0.92
1:LK:22:LEU:CG	1:KP:47:GLU:OE1	2.18	0.92
2:MK:15:TYR:CE2	1:KP:152:ALA:HB2	2.05	0.92
3:AM:112:ILE:C	2:LS:18:SER:HA	1.95	0.92
1:AR:261:ILE:HG21	1:BR:260:GLN:OE1	1.70	0.92
1:K1:259:PHE:O	1:K1:260:GLN:HB2	1.65	0.92
2:e1:11:MET:HG2	1:CL:372:VAL:HG12	1.47	0.92
1:f1:367:PRO:HG2	1:C3:375:TRP:CZ3	2.04	0.92
2:m1:11:MET:HG2	1:gR:372:VAL:HG12	1.47	0.92
3:A2:13:SER:HB3	3:AB:197:VAL:HG22	1.49	0.92
1:A4:210:ASN:HD22	1:QG:71:ARG:HH22	1.12	0.92
1:I4:372:VAL:HG12	2:X8:11:MET:HG2	1.47	0.92
1:Q4:367:PRO:HG2	1:IL:375:TRP:CZ3	2.04	0.92
2:U4:5:ASN:H	1:BS:153:LEU:HD11	1.31	0.92
2:l4:3:GLU:O	1:DK:153:LEU:HD22	1.66	0.92
5:D5:52:LEU:HA	3:AH:6:ARG:HH22	1.32	0.92
1:C7:57:LYS:CB	1:CK:143:GLN:NE2	2.33	0.92
1:Y7:375:TRP:CZ3	1:KE:367:PRO:HG2	2.04	0.92
5:E9:37:ASP:CB	3:AB:197:VAL:HG21	1.99	0.92
1:LD:25:PHE:HZ	1:DK:126:VAL:HG12	1.18	0.92
1:aE:372:VAL:HG12	2:XG:11:MET:CG	1.97	0.92
1:KJ:33:TRP:CE2	1:AP:174:MET:HA	2.05	0.92
1:IL:367:PRO:HG2	1:IQ:375:TRP:CZ3	2.04	0.92
3:AM:106:ARG:CB	2:LS:21:ASN:OD1	2.18	0.92
1:C1:360:LEU:CD2	2:H6:22:LYS:HG2	2.00	0.92
2:H1:22:LYS:HG2	1:C6:360:LEU:CD2	2.00	0.92
1:A4:259:PHE:HE1	1:QG:259:PHE:CE1	1.79	0.92
1:g4:105:GLU:H	1:BK:110:LYS:HZ3	1.09	0.92
3:A5:197:VAL:HG21	5:EO:37:ASP:CB	1.99	0.92
1:g6:45:MET:CG	1:CP:14:VAL:HA	1.99	0.92
1:I7:360:LEU:CD2	2:iQ:22:LYS:HG2	2.00	0.92
1:g8:222:SER:OG	1:DD:53:TYR:HD1	1.51	0.92
3:A9:197:VAL:HG21	5:EC:37:ASP:CB	1.99	0.92
5:E9:37:ASP:OD1	3:AB:197:VAL:HG21	1.69	0.92
3:AA:208:LYS:O	4:BH:250:ILE:HD11	1.69	0.92
4:BA:33:TYR:HE1	5:EH:57:GLU:CB	1.73	0.92
1:CD:143:GLN:NE2	1:YG:57:LYS:CB	2.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FD:10:MET:HB2	1:KS:372:VAL:CB	1.99	0.92
1:KD:33:TRP:CE2	1:IS:174:MET:HA	2.05	0.92
5:EF:37:ASP:OD1	3:AO:197:VAL:HG21	1.68	0.92
2:nG:22:LYS:HG2	1:CL:360:LEU:CD2	2.00	0.92
3:AI:197:VAL:HG21	5:EM:37:ASP:CB	1.99	0.92
2:FJ:11:MET:HB2	1:LP:133:LEU:HG	1.51	0.92
1:KJ:45:MET:HB3	1:LP:14:VAL:C	1.85	0.92
1:LK:139:ARG:HB2	1:DP:81:PHE:HE2	1.32	0.92
2:MK:15:TYR:O	1:KP:145:LEU:CD2	2.18	0.92
1:AP:62:LEU:HB3	1:KP:88:GLU:HB2	1.50	0.92
1:BP:110:LYS:HZ3	1:hR:105:GLU:H	1.05	0.92
1:R1:118:THR:CG2	1:CJ:53:TYR:O	2.17	0.92
1:f4:367:PRO:HG2	1:C6:375:TRP:CZ3	2.04	0.92
1:g4:100:ASP:HA	1:DK:25:PHE:O	1.70	0.92
5:F5:41:ASN:OD1	4:BH:38:GLN:NE2	2.02	0.92
1:C7:54:LEU:HA	1:LK:118:THR:HG21	1.49	0.92
1:g8:27:HIS:O	1:IS:100:ASP:OD2	1.88	0.92
1:g8:57:LYS:HB3	1:BS:143:GLN:NE2	1.85	0.92
1:g8:148:ALA:C	2:MS:15:TYR:HE2	1.73	0.92
5:E9:21:ILE:O	5:E9:25:ARG:HB2	1.67	0.92
1:BE:110:LYS:NZ	1:AP:104:ASN:HB2	1.84	0.92
1:aE:81:PHE:HD2	1:CG:139:ARG:HD2	1.25	0.92
1:aE:360:LEU:CD2	2:HR:22:LYS:HG2	2.00	0.92
4:BI:193:VAL:HG12	4:BO:144:GLN:HE22	1.32	0.92
2:FJ:10:MET:HB2	1:LP:372:VAL:CG2	2.00	0.92
1:LJ:22:LEU:CD2	1:JS:47:GLU:C	2.42	0.92
1:LJ:22:LEU:HD11	1:JS:49:PHE:HB2	1.51	0.92
2:XL:22:LYS:HG2	1:QR:360:LEU:CD2	2.00	0.92
3:AO:81:LEU:CD1	2:LS:55:GLY:HA3	1.98	0.92
3:AO:155:GLU:OE1	1:IS:143:GLN:CG	2.17	0.92
1:DP:153:LEU:HD11	2:mR:5:ASN:H	1.31	0.92
1:LP:261:ILE:HD13	1:LP:265:ASP:CG	1.94	0.92
2:W1:22:LYS:HG2	1:Q6:360:LEU:CD2	2.00	0.91
1:X1:62:LEU:HD11	2:P6:54:THR:N	1.86	0.91
1:I3:71:ARG:HH22	1:R8:210:ASN:HD22	1.12	0.91
1:J3:261:ILE:HG21	1:K3:260:GLN:OE1	1.70	0.91
2:P4:22:LYS:HG2	1:C8:360:LEU:CD2	2.00	0.91
2:e4:54:THR:N	1:Y8:62:LEU:HD11	1.86	0.91
1:f4:62:LEU:HD11	2:fG:54:THR:N	1.86	0.91
4:B5:38:GLN:NE2	5:FO:41:ASN:OD1	2.02	0.91
4:B5:250:ILE:HD11	3:AH:208:LYS:O	1.69	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C6:367:PRO:HG2	1:gG:375:TRP:CZ3	2.04	0.91
1:I6:372:VAL:HG12	2:PL:11:MET:HG2	1.47	0.91
1:S6:137:ASP:OD2	1:CS:49:PHE:HB3	1.71	0.91
1:S6:144:THR:HA	1:AS:82:ILE:CD1	1.80	0.91
1:i6:137:ASP:OD2	1:DJ:49:PHE:HB3	1.71	0.91
1:C7:62:LEU:HD11	2:mR:54:THR:N	1.86	0.91
1:B7:137:ASP:OD2	1:DP:49:PHE:HB3	1.71	0.91
1:I7:375:TRP:CZ3	1:CQ:367:PRO:HG2	2.04	0.91
2:P7:22:LYS:HG2	1:bQ:360:LEU:CD2	2.00	0.91
2:X7:22:LYS:HG2	1:QQ:360:LEU:CD2	2.00	0.91
1:B8:259:PHE:O	1:B8:260:GLN:HB2	1.65	0.91
4:BB:144:GLN:HE22	4:BF:193:VAL:HG12	1.32	0.91
1:AD:82:ILE:HG13	1:KK:143:GLN:HA	1.48	0.91
1:CD:14:VAL:HA	1:YG:45:MET:CG	1.99	0.91
1:DD:362:PRO:O	1:KS:367:PRO:HG3	1.70	0.91
1:LD:372:VAL:CG2	2:FK:10:MET:HB2	2.00	0.91
1:bE:261:ILE:HG21	1:cE:260:GLN:OE1	1.70	0.91
1:gG:360:LEU:CD2	2:HL:22:LYS:HG2	2.00	0.91
2:MJ:15:TYR:CE2	1:JS:152:ALA:HB2	2.05	0.91
1:AK:60:GLU:HG2	1:KK:87:GLU:H	1.35	0.91
1:JL:259:PHE:HE1	1:YR:259:PHE:CE1	1.79	0.91
1:R1:100:ASP:HA	1:CS:25:PHE:O	1.70	0.91
2:H3:54:THR:N	1:g7:62:LEU:HD11	1.86	0.91
1:Q3:375:TRP:CZ3	1:CR:367:PRO:HG2	2.04	0.91
1:J4:210:ASN:HD22	1:C8:71:ARG:HH22	1.12	0.91
1:R4:110:LYS:NZ	1:IS:104:ASN:HB2	1.84	0.91
1:X4:367:PRO:HG2	1:CR:375:TRP:CZ3	2.04	0.91
1:f4:71:ARG:HH22	1:ZG:210:ASN:HD22	1.12	0.91
3:A5:6:ARG:HH22	5:DO:52:LEU:HA	1.32	0.91
1:g6:57:LYS:CB	1:CP:143:GLN:NE2	2.33	0.91
1:I7:71:ARG:HH22	1:cQ:210:ASN:HD22	1.12	0.91
1:Q7:360:LEU:CD2	2:XQ:22:LYS:HG2	2.00	0.91
1:Y7:360:LEU:CD2	2:PR:22:LYS:HG2	2.00	0.91
2:f7:54:THR:N	1:IR:62:LEU:HD11	1.86	0.91
1:g8:14:VAL:HB	1:BS:45:MET:HE1	1.50	0.91
3:A9:7:GLY:N	5:DC:24:THR:HA	1.61	0.91
3:A9:29:ARG:HG3	1:AK:370:ASP:OD2	1.70	0.91
4:BC:38:GLN:NE2	5:FN:41:ASN:OD1	2.02	0.91
1:AD:62:LEU:HB3	1:KD:88:GLU:HB2	1.51	0.91
1:AD:80:ASP:O	1:KK:145:LEU:HD11	1.71	0.91
1:BE:118:THR:CG2	1:CP:53:TYR:O	2.17	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SE:62:LEU:HD11	2:PQ:54:THR:N	1.86	0.91
3:AI:29:ARG:HH12	1:IS:58:ILE:HG12	0.76	0.91
3:AI:197:VAL:HG22	3:AO:13:SER:HB3	1.49	0.91
1:LK:369:PHE:CD2	1:BP:108:MET:HE3	2.05	0.91
1:CL:375:TRP:CZ3	1:YR:367:PRO:HG2	2.04	0.91
1:RQ:261:ILE:HG21	1:SQ:260:GLN:OE1	1.70	0.91
1:C1:367:PRO:HG2	1:bQ:375:TRP:CZ3	2.04	0.91
1:I1:360:LEU:CD2	2:PG:22:LYS:HG2	2.00	0.91
3:A2:197:VAL:HG21	5:EA:37:ASP:CB	1.99	0.91
3:A2:197:VAL:HG22	3:A9:13:SER:HB3	1.49	0.91
1:Q3:71:ARG:HH22	1:J8:210:ASN:HD22	1.12	0.91
1:C4:62:LEU:HD11	2:XG:54:THR:N	1.86	0.91
2:W4:54:THR:N	1:g8:62:LEU:HD11	1.86	0.91
1:f4:360:LEU:CD2	2:fG:22:LYS:HG2	2.00	0.91
2:j4:1:MET:H2	1:CD:150:ASN:CG	1.68	0.91
1:R8:261:ILE:HG21	1:S8:260:GLN:OE1	1.70	0.91
1:h8:261:ILE:HG21	1:i8:260:GLN:OE1	1.70	0.91
5:CA:275:ASN:HD22	5:OC:371:PRO:HB3	1.28	0.91
5:FB:41:ASN:CG	4:BM:38:GLN:HE21	1.79	0.91
4:BC:193:VAL:HG12	4:BH:144:GLN:HE22	1.32	0.91
1:AD:62:LEU:HB2	1:KD:88:GLU:HB2	0.92	0.91
1:CD:143:GLN:NE2	1:YG:57:LYS:HB3	1.85	0.91
1:DD:173:ALA:HB1	1:KS:33:TRP:HH2	1.11	0.91
1:KD:107:LEU:CB	1:KK:369:PHE:CZ	2.53	0.91
1:LD:14:VAL:O	1:KK:45:MET:CG	2.10	0.91
3:AI:81:LEU:HD11	1:JS:359:MET:CE	2.00	0.91
5:DI:24:THR:HA	3:AN:7:GLY:N	1.61	0.91
1:KJ:107:LEU:CB	1:JS:369:PHE:CZ	2.53	0.91
1:LJ:133:LEU:HG	2:ES:11:MET:HB2	1.51	0.91
1:R1:222:SER:C	1:CJ:53:TYR:CE1	2.49	0.91
1:T1:153:LEU:HD23	2:HJ:2:TYR:HD2	1.31	0.91
2:H3:22:LYS:HG2	1:g7:360:LEU:CD2	2.00	0.91
1:T4:370:ASP:OD2	1:BS:361:LYS:NZ	2.04	0.91
2:e4:22:LYS:HG2	1:Y8:360:LEU:CD2	2.00	0.91
1:Q6:148:ALA:C	2:NJ:15:TYR:HE2	1.73	0.91
3:A9:197:VAL:HG21	5:EC:37:ASP:OD1	1.68	0.91
5:D9:24:THR:HA	3:AB:7:GLY:N	1.61	0.91
3:AB:151:ASN:CG	1:AD:145:LEU:HD11	1.96	0.91
1:AD:82:ILE:HG12	1:KK:144:THR:H	1.34	0.91
1:AD:174:MET:HA	1:KK:33:TRP:CE2	2.05	0.91
1:BD:108:MET:HE3	1:KS:369:PHE:CD2	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:30:SER:HB3	1:JS:98:ASN:HD21	1.14	0.91
1:BE:100:ASP:HA	1:DJ:25:PHE:O	1.70	0.91
1:SE:360:LEU:CD2	2:PQ:22:LYS:HG2	2.00	0.91
5:EF:140:ASP:CG	5:CF:139:LYS:CE	2.37	0.91
3:AI:104:GLN:NE2	2:MJ:19:ARG:HB3	1.75	0.91
1:LK:22:LEU:HD11	1:KP:49:PHE:CB	2.00	0.91
1:BP:110:LYS:HZ1	1:hR:105:GLU:H	1.15	0.91
1:Q1:360:LEU:CD2	2:X6:22:LYS:HG2	2.00	0.91
1:A3:210:ASN:HD22	1:g7:71:ARG:HH22	1.12	0.91
1:C4:158:LYS:NZ	1:RG:93:ASP:OD1	2.04	0.91
1:C4:360:LEU:CD2	2:XG:22:LYS:HG2	2.00	0.91
1:A4:261:ILE:HG21	1:B4:260:GLN:OE1	1.70	0.91
1:J4:259:PHE:HE1	1:C8:259:PHE:CE1	1.80	0.91
1:R4:93:ASP:OD1	1:g8:158:LYS:NZ	2.04	0.91
1:R4:222:SER:C	1:BS:53:TYR:CE1	2.49	0.91
1:Y4:210:ASN:HD22	1:Y8:71:ARG:HH22	1.12	0.91
1:i4:370:ASP:OD2	1:CD:361:LYS:NZ	2.04	0.91
1:R6:261:ILE:HG21	1:S6:260:GLN:OE1	1.70	0.91
1:Y6:158:LYS:NZ	1:LE:93:ASP:OD1	2.04	0.91
1:h6:93:ASP:OD1	1:AE:158:LYS:NZ	2.04	0.91
1:R7:93:ASP:OD1	1:QQ:158:LYS:NZ	2.04	0.91
1:Y7:158:LYS:NZ	1:JR:93:ASP:OD1	2.04	0.91
5:EB:37:ASP:CB	3:AM:197:VAL:HG21	1.99	0.91
1:KD:49:PHE:CB	1:KS:22:LEU:HD11	2.00	0.91
1:BE:222:SER:C	1:CP:53:TYR:CE1	2.49	0.91
1:FE:370:ASP:OD2	1:CP:361:LYS:NZ	2.04	0.91
1:QG:372:VAL:HG12	2:HQ:11:MET:HG2	1.47	0.91
1:gG:158:LYS:NZ	1:AL:93:ASP:OD1	2.04	0.91
3:AI:208:LYS:O	4:BM:250:ILE:HD11	1.69	0.91
5:EI:37:ASP:CB	3:AN:197:VAL:HG21	1.99	0.91
1:AJ:62:LEU:HB3	1:KJ:88:GLU:HB2	1.51	0.91
1:DJ:119:LYS:NZ	1:LP:38:LYS:HG3	1.83	0.91
1:DJ:119:LYS:HZ1	1:LP:38:LYS:HG2	1.27	0.91
1:KJ:47:GLU:OE1	1:LP:22:LEU:CG	2.18	0.91
1:KJ:369:PHE:CZ	1:KP:107:LEU:CB	2.53	0.91
1:LJ:25:PHE:HZ	1:CS:126:VAL:HG12	1.18	0.91
1:CK:145:LEU:CD1	2:kR:17:ASP:OD2	2.19	0.91
1:DK:261:ILE:HG13	1:DK:265:ASP:OD1	1.71	0.91
1:QL:360:LEU:CD2	2:XR:22:LYS:HG2	2.00	0.91
1:RL:261:ILE:HG21	1:SL:260:GLN:OE1	1.70	0.91
1:CS:261:ILE:HG13	1:CS:265:ASP:OD1	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R1:261:ILE:HG21	1:S1:260:GLN:OE1	1.70	0.91
1:I3:360:LEU:CD2	2:X8:22:LYS:HG2	2.00	0.91
2:P3:22:LYS:HG2	1:Q8:360:LEU:CD2	2.00	0.91
1:R4:105:GLU:N	1:BD:110:LYS:NZ	2.17	0.91
2:W4:22:LYS:HG2	1:g8:360:LEU:CD2	2.00	0.91
1:X4:62:LEU:HD11	2:f8:54:THR:N	1.86	0.91
1:g4:210:ASN:HD22	1:YG:71:ARG:HH22	1.12	0.91
2:f6:22:LYS:HG2	1:KE:360:LEU:CD2	2.00	0.91
1:g6:148:ALA:C	2:NP:15:TYR:HE2	1.73	0.91
2:n6:22:LYS:HG2	1:AE:360:LEU:CD2	2.00	0.91
1:J7:93:ASP:OD1	1:bQ:158:LYS:NZ	2.04	0.91
4:BA:38:GLN:HE21	5:FH:41:ASN:CG	1.79	0.91
1:AD:145:LEU:CB	3:AF:37:GLU:CG	2.49	0.91
1:DD:222:SER:HB2	1:KS:38:LYS:C	1.96	0.91
1:LD:25:PHE:CE1	1:DK:126:VAL:HG13	1.91	0.91
1:CG:62:LEU:HD11	2:fL:54:THR:N	1.86	0.91
1:YG:222:SER:OG	1:DK:53:TYR:HD1	1.51	0.91
1:DJ:261:ILE:HG13	1:DJ:265:ASP:OD1	1.71	0.91
1:KJ:31:LYS:HB2	1:AP:314:GLY:C	1.96	0.91
1:KJ:152:ALA:HB2	2:MP:15:TYR:CE2	2.05	0.91
1:LJ:22:LEU:CG	1:JS:47:GLU:OE1	2.18	0.91
1:LJ:372:VAL:CG2	2:ES:10:MET:HB2	2.00	0.91
1:LK:367:PRO:HG3	1:DP:362:PRO:O	1.71	0.91
1:I1:46:PHE:HD1	1:JG:85:TYR:HH	1.16	0.91
1:I1:259:PHE:CE1	1:JG:259:PHE:HE1	1.80	0.91
2:P1:22:LYS:HG2	1:IG:360:LEU:CD2	2.00	0.91
5:D2:24:THR:HA	3:AF:7:GLY:N	1.61	0.91
5:F2:41:ASN:CG	4:BF:38:GLN:HE21	1.79	0.91
1:I4:360:LEU:CD2	2:H8:22:LYS:HG2	2.00	0.91
2:P4:54:THR:N	1:C8:62:LEU:HD11	1.86	0.91
1:Q4:360:LEU:CD2	2:n8:22:LYS:HG2	2.00	0.91
1:Q4:372:VAL:HG12	2:fR:11:MET:HG2	1.47	0.91
1:g4:222:SER:HB2	1:CD:38:LYS:HA	1.51	0.91
2:l4:54:THR:N	1:YG:62:LEU:HD11	1.86	0.91
3:A5:156:ILE:H	1:AJ:139:ARG:HH22	1.17	0.91
1:Q6:20:SER:CB	1:CJ:47:GLU:CG	2.20	0.91
1:Q6:81:PHE:CD2	1:CS:139:ARG:HD3	2.05	0.91
1:g6:367:PRO:HG2	1:LP:375:TRP:CH2	2.06	0.91
1:I7:62:LEU:HD11	2:iQ:54:THR:N	1.86	0.91
1:i8:144:THR:H	1:BD:82:ILE:HD11	1.21	0.91
1:KD:143:GLN:HA	1:IS:82:ILE:HG13	1.48	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:145:LEU:HD11	1:IS:80:ASP:O	1.71	0.91
1:LD:35:PHE:CZ	1:DK:178:TYR:HB2	2.04	0.91
1:LD:38:LYS:CG	1:DK:119:LYS:HZ1	1.82	0.91
1:LD:375:TRP:CH2	1:YG:367:PRO:HG2	2.06	0.91
1:AG:259:PHE:HE1	1:YL:259:PHE:CE1	1.79	0.91
2:nG:54:THR:N	1:CL:62:LEU:HD11	1.86	0.91
1:LJ:14:VAL:C	1:JS:45:MET:HB3	1.85	0.91
1:LJ:22:LEU:HD11	1:JS:49:PHE:CB	2.00	0.91
1:LJ:31:LYS:CG	1:CS:314:GLY:C	2.44	0.91
1:LJ:369:PHE:HE1	1:AS:107:LEU:HD11	1.36	0.91
1:LK:369:PHE:HE1	1:BP:107:LEU:HD11	1.36	0.91
2:XL:54:THR:N	1:QR:62:LEU:HD11	1.86	0.91
1:DP:25:PHE:O	1:hR:100:ASP:HA	1.70	0.91
1:DP:261:ILE:HG13	1:DP:265:ASP:OD1	1.71	0.91
1:RR:261:ILE:HG21	1:SR:260:GLN:OE1	1.70	0.91
1:I1:62:LEU:HD11	2:PG:54:THR:N	1.86	0.91
1:g1:93:ASP:OD1	1:CQ:158:LYS:NZ	2.04	0.91
4:B2:38:GLN:HE21	5:FA:41:ASN:CG	1.79	0.91
1:C4:367:PRO:HG2	1:CG:375:TRP:CZ3	2.04	0.91
1:R4:100:ASP:HA	1:DD:25:PHE:O	1.70	0.91
3:A5:150:TYR:CB	1:AJ:144:THR:CA	2.43	0.91
1:Y6:360:LEU:CD2	2:RE:22:LYS:HG2	2.00	0.91
1:g6:360:LEU:CD2	2:JE:22:LYS:HG2	2.00	0.91
1:g8:81:PHE:CD2	1:DD:139:ARG:HD3	2.05	0.91
1:LD:22:LEU:HD11	1:KK:49:PHE:CB	2.00	0.91
1:LD:22:LEU:CG	1:KK:47:GLU:OE1	2.18	0.91
1:LD:38:LYS:C	1:DK:222:SER:HB2	1.96	0.91
1:SE:71:ARG:HH22	1:JQ:210:ASN:HD22	1.12	0.91
5:EF:37:ASP:CB	3:AO:197:VAL:HG21	1.99	0.91
1:AG:93:ASP:OD1	1:YL:158:LYS:NZ	2.04	0.91
1:YG:81:PHE:CD2	1:DK:139:ARG:HD3	2.05	0.91
1:aG:14:VAL:CB	1:DK:14:VAL:HG11	2.01	0.91
1:aG:20:SER:OG	1:DK:47:GLU:HB3	1.51	0.91
5:EH:21:ILE:CG2	5:EN:55:LEU:CD2	2.38	0.91
1:AJ:80:ASP:O	1:JS:145:LEU:HD11	1.71	0.91
1:LJ:33:TRP:NE1	1:CS:174:MET:HA	1.83	0.91
1:CK:53:TYR:CE1	1:hR:222:SER:C	2.49	0.91
1:LK:261:ILE:HD13	1:LK:265:ASP:CG	1.94	0.91
1:RL:93:ASP:OD1	1:QR:158:LYS:NZ	2.04	0.91
1:CR:208:LEU:HD11	1:CR:391:ILE:HD13	1.45	0.91
1:C1:158:LYS:NZ	1:A6:93:ASP:OD1	2.04	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:71:ARG:HH22	1:JG:210:ASN:HD22	1.12	0.91
1:R1:93:ASP:OD1	1:Q6:158:LYS:NZ	2.04	0.91
2:W1:54:THR:N	1:Q6:62:LEU:HD11	1.86	0.91
2:e1:53:PHE:C	1:I6:62:LEU:CD1	2.44	0.91
1:R3:93:ASP:OD1	1:I8:158:LYS:NZ	2.04	0.91
2:H4:22:LYS:HG2	1:QG:360:LEU:CD2	2.00	0.91
1:Q6:57:LYS:CB	1:CJ:143:GLN:NE2	2.33	0.91
2:H7:53:PHE:C	1:gR:62:LEU:CD1	2.44	0.91
2:H7:54:THR:N	1:gR:62:LEU:HD11	1.86	0.91
1:Q7:62:LEU:HD11	2:XQ:54:THR:N	1.86	0.91
2:X7:54:THR:N	1:QQ:62:LEU:HD11	1.86	0.91
2:f7:22:LYS:HG2	1:IR:360:LEU:CD2	2.00	0.91
4:B9:38:GLN:HE21	5:FC:41:ASN:CG	1.79	0.91
3:AA:197:VAL:HG21	5:EH:37:ASP:CB	1.99	0.91
3:AC:197:VAL:HG21	5:EN:37:ASP:CB	1.99	0.91
3:AC:197:VAL:HG21	5:EN:37:ASP:OD1	1.69	0.91
1:DD:261:ILE:HG13	1:DD:265:ASP:OD1	1.71	0.91
2:FD:10:MET:HB2	1:KS:372:VAL:CG2	2.00	0.91
1:KD:145:LEU:CD2	2:LS:15:TYR:O	2.18	0.91
2:hE:54:THR:N	1:CR:62:LEU:HD11	1.86	0.91
4:BF:250:ILE:HD11	3:AO:208:LYS:O	1.69	0.91
1:aG:137:ASP:OD2	1:DK:49:PHE:HB3	1.71	0.91
1:hG:210:ASN:HD22	1:CL:71:ARG:HH22	1.12	0.91
1:DJ:314:GLY:C	1:LP:31:LYS:CG	2.44	0.91
1:IL:259:PHE:CE1	1:ZR:259:PHE:HE1	1.80	0.91
1:JL:93:ASP:OD1	1:YR:158:LYS:NZ	2.04	0.91
1:RL:202:PHE:HD2	1:QR:248:SER:HG	1.14	0.91
1:IR:208:LEU:HD11	1:IR:391:ILE:HD13	1.46	0.91
1:A1:93:ASP:OD1	1:C6:158:LYS:NZ	2.04	0.91
1:X1:62:LEU:CD1	2:P6:53:PHE:C	2.44	0.91
1:A3:93:ASP:OD1	1:g7:158:LYS:NZ	2.04	0.91
1:I4:62:LEU:HD11	2:H8:54:THR:N	1.86	0.91
2:P4:11:MET:CG	1:AE:372:VAL:HG12	1.97	0.91
1:g4:222:SER:C	1:CD:53:TYR:CE1	2.49	0.91
5:E5:37:ASP:CB	3:AH:197:VAL:HG21	1.99	0.91
1:C7:62:LEU:CD1	2:mR:53:PHE:C	2.44	0.91
1:Q7:71:ARG:HH22	1:RQ:210:ASN:HD22	1.12	0.91
1:i8:137:ASP:OD2	1:DD:49:PHE:HB3	1.71	0.91
4:B9:250:ILE:HD11	3:AB:208:LYS:O	1.69	0.91
1:KD:47:GLU:OE1	1:KS:22:LEU:CG	2.18	0.91
1:KD:150:ASN:ND2	2:LS:2:TYR:CD1	2.24	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:38:LYS:HG3	1:DK:119:LYS:NZ	1.83	0.91
1:LD:133:LEU:HG	2:FK:11:MET:HB2	1.50	0.91
1:FE:30:SER:CA	1:CP:315:ALA:CB	2.43	0.91
4:BF:144:GLN:HE22	4:BM:193:VAL:HG12	1.32	0.91
1:DJ:87:GLU:OE2	1:LP:57:LYS:NZ	2.03	0.91
1:LJ:369:PHE:CD2	1:AS:108:MET:HE3	2.05	0.91
1:LK:25:PHE:CE1	1:DP:126:VAL:HG11	2.06	0.91
1:LK:372:VAL:CG2	2:FP:10:MET:HB2	2.00	0.91
2:W1:54:THR:HA	1:Q6:62:LEU:HD12	0.91	0.90
2:e1:54:THR:N	1:I6:62:LEU:HD11	1.86	0.90
2:m1:22:LYS:HG2	1:CQ:360:LEU:CD2	2.00	0.90
2:m1:53:PHE:C	1:CQ:62:LEU:CD1	2.44	0.90
3:A2:112:ILE:CB	2:MD:5:ASN:ND2	2.32	0.90
1:C3:158:LYS:NZ	1:h7:93:ASP:OD1	2.04	0.90
1:Q3:367:PRO:HG2	1:X4:375:TRP:CZ3	2.04	0.90
2:U4:11:MET:HE2	1:BS:372:VAL:HG11	1.52	0.90
3:A5:156:ILE:H	1:AJ:139:ARG:NH1	1.69	0.90
4:B5:38:GLN:HE21	5:FO:41:ASN:CG	1.79	0.90
2:H7:22:LYS:HG2	1:gR:360:LEU:CD2	2.00	0.90
1:g8:45:MET:CG	1:BS:14:VAL:HA	1.99	0.90
3:A9:208:LYS:O	4:BC:250:ILE:HD11	1.69	0.90
3:AB:83:TYR:O	1:AD:156:TYR:HE2	1.50	0.90
1:AD:314:GLY:C	1:KK:31:LYS:HB2	1.96	0.90
1:LD:31:LYS:CG	1:DK:314:GLY:C	2.44	0.90
1:BE:222:SER:HB2	1:CP:38:LYS:HA	1.51	0.90
1:SE:158:LYS:NZ	1:JQ:93:ASP:OD1	2.04	0.90
1:bE:93:ASP:OD1	1:CR:158:LYS:NZ	2.04	0.90
5:FF:41:ASN:CG	4:BO:38:GLN:HE21	1.79	0.90
1:AG:210:ASN:HD22	1:YL:71:ARG:HH22	1.12	0.90
1:KJ:374:HIS:HE1	2:MP:8:ARG:HH12	0.91	0.90
1:LJ:25:PHE:CE1	1:CS:126:VAL:HG11	2.06	0.90
1:LK:38:LYS:C	1:DP:222:SER:HB2	1.96	0.90
1:LK:133:LEU:HG	2:FP:11:MET:HB2	1.50	0.90
2:PL:54:THR:N	1:YR:62:LEU:HD11	1.86	0.90
2:XL:54:THR:HA	1:QR:62:LEU:HD12	0.91	0.90
1:KS:261:ILE:HD13	1:KS:265:ASP:CG	1.94	0.90
2:P1:54:THR:N	1:IG:62:LEU:HD11	1.86	0.90
1:f1:259:PHE:CE1	1:AQ:259:PHE:HE1	1.80	0.90
2:m1:54:THR:N	1:CQ:62:LEU:HD11	1.86	0.90
2:H3:53:PHE:C	1:g7:62:LEU:CD1	2.44	0.90
1:S4:105:GLU:HB3	1:KS:109:LEU:CD2	1.90	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l4:22:LYS:HG2	1:YG:360:LEU:CD2	2.00	0.90
1:Q6:27:HIS:O	1:AJ:100:ASP:OD2	1.88	0.90
1:Q6:57:LYS:HB3	1:CJ:143:GLN:NE2	1.85	0.90
2:f6:54:THR:N	1:KE:62:LEU:HD11	1.86	0.90
2:P7:54:THR:N	1:bQ:62:LEU:HD11	1.86	0.90
2:X7:53:PHE:C	1:QQ:62:LEU:CD1	2.44	0.90
1:g8:57:LYS:CB	1:BS:143:GLN:NE2	2.33	0.90
3:AB:112:ILE:HA	2:MD:23:ARG:HH21	0.75	0.90
3:AB:150:TYR:CZ	1:AD:144:THR:CB	2.51	0.90
1:AD:82:ILE:HG12	1:KK:144:THR:CA	2.01	0.90
1:KD:53:TYR:CD1	1:IS:223:GLY:HA2	2.02	0.90
1:SE:62:LEU:CD1	2:PQ:53:PHE:C	2.44	0.90
1:TE:93:ASP:OD1	1:IQ:158:LYS:NZ	2.04	0.90
1:aE:62:LEU:CD1	2:HR:53:PHE:C	2.44	0.90
1:CG:360:LEU:CD2	2:fL:22:LYS:HG2	2.00	0.90
1:gG:208:LEU:HD11	1:gG:391:ILE:HD13	1.46	0.90
5:EH:140:ASP:CG	5:CH:139:LYS:CE	2.37	0.90
1:LK:33:TRP:CE2	1:DP:174:MET:CA	2.46	0.90
2:PL:22:LYS:HG2	1:YR:360:LEU:CD2	2.00	0.90
3:AN:104:GLN:CB	2:MP:9:SER:HA	2.01	0.90
1:IS:60:GLU:HG2	1:JS:87:GLU:H	1.35	0.90
1:Q1:158:LYS:NZ	1:R6:93:ASP:OD1	2.04	0.90
2:e1:22:LYS:HG2	1:I6:360:LEU:CD2	2.00	0.90
1:C3:360:LEU:CD2	2:n7:22:LYS:HG2	2.00	0.90
1:J3:259:PHE:HE1	1:Q8:259:PHE:CE1	1.79	0.90
2:P3:53:PHE:C	1:Q8:62:LEU:CD1	2.44	0.90
2:X3:54:THR:N	1:I8:62:LEU:HD11	1.86	0.90
1:X4:62:LEU:HD12	2:f8:54:THR:HA	0.91	0.90
1:X4:62:LEU:CD1	2:f8:53:PHE:C	2.44	0.90
1:X4:71:ARG:HH22	1:Z8:210:ASN:HD22	1.12	0.90
1:i4:365:HIS:NE2	2:HD:10:MET:HE3	1.83	0.90
2:l4:54:THR:HA	1:YG:62:LEU:HD12	0.91	0.90
1:Y6:372:VAL:HG12	2:PG:11:MET:CG	1.97	0.90
1:C7:33:TRP:N	1:LK:174:MET:CE	2.20	0.90
4:B9:193:VAL:HG12	4:BA:144:GLN:HE22	1.32	0.90
3:AC:155:GLU:CA	1:AP:58:ILE:HD11	2.01	0.90
4:BC:38:GLN:HE21	5:FN:41:ASN:CG	1.79	0.90
1:AD:58:ILE:CD1	3:AF:154:ILE:HG22	2.01	0.90
1:DD:174:MET:HA	1:KS:33:TRP:NE1	1.83	0.90
2:HE:11:MET:HE2	1:CP:372:VAL:HG11	1.52	0.90
2:HE:11:MET:CG	1:CP:133:LEU:CD2	2.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:17:ASP:OD2	1:CP:145:LEU:CD1	2.19	0.90
1:CG:158:LYS:NZ	1:ZL:93:ASP:OD1	2.04	0.90
4:BI:38:GLN:HE21	5:FM:41:ASN:CG	1.79	0.90
1:AK:80:ASP:O	1:KP:145:LEU:HD11	1.71	0.90
1:AK:82:ILE:HG12	1:KP:144:THR:CA	2.01	0.90
1:LK:31:LYS:CG	1:DP:314:GLY:C	2.44	0.90
2:PL:53:PHE:C	1:YR:62:LEU:CD1	2.44	0.90
1:QL:158:LYS:NZ	1:RR:93:ASP:OD1	2.04	0.90
5:DM:30:PRO:HB2	1:IS:140:PHE:CD2	1.91	0.90
5:EM:140:ASP:CG	5:CM:139:LYS:CE	2.37	0.90
1:AP:62:LEU:HB2	1:KP:88:GLU:HB2	0.93	0.90
1:X4:360:LEU:CD2	2:f8:22:LYS:HG2	2.00	0.90
2:f6:53:PHE:C	1:KE:62:LEU:CD1	2.44	0.90
1:g6:57:LYS:HB3	1:CP:143:GLN:NE2	1.85	0.90
1:g6:62:LEU:HD11	2:JE:54:THR:N	1.86	0.90
2:n6:11:MET:HG2	1:g7:372:VAL:HG12	1.48	0.90
1:C7:367:PRO:HG2	1:LK:375:TRP:CH2	2.06	0.90
3:AB:113:TYR:C	2:MD:22:LYS:N	2.29	0.90
3:AB:114:PHE:CD1	1:AD:360:LEU:HD23	2.06	0.90
3:AC:208:LYS:O	4:BN:250:ILE:HD11	1.69	0.90
1:KD:369:PHE:CZ	1:JS:107:LEU:CB	2.53	0.90
2:ZE:22:LYS:HG2	1:IQ:360:LEU:CD2	2.00	0.90
1:JG:261:ILE:HG21	1:KG:260:GLN:OE1	1.70	0.90
1:gG:62:LEU:HD11	2:HL:54:THR:N	1.86	0.90
1:KJ:58:ILE:HB	1:LP:55:PHE:HE2	1.17	0.90
1:KJ:98:ASN:HD21	1:JS:30:SER:HB3	1.14	0.90
1:AK:304:GLN:HE22	1:KP:28:ASP:HB3	1.02	0.90
1:LK:25:PHE:CE1	1:DP:126:VAL:HG13	1.91	0.90
1:AP:60:GLU:HG2	1:KP:87:GLU:H	1.35	0.90
1:BP:261:ILE:HG22	1:BP:265:ASP:OD1	1.62	0.90
1:bQ:208:LEU:HD11	1:bQ:391:ILE:HD13	1.46	0.90
3:A2:108:THR:HB	2:MD:7:MET:HE1	1.51	0.90
1:I3:62:LEU:CD1	2:X8:53:PHE:C	2.44	0.90
1:R3:261:ILE:HG21	1:S3:260:GLN:OE1	1.70	0.90
2:X3:22:LYS:HG2	1:I8:360:LEU:CD2	2.00	0.90
2:X3:53:PHE:C	1:I8:62:LEU:CD1	2.44	0.90
2:j4:11:MET:HE2	1:CD:372:VAL:HG11	1.52	0.90
2:l4:53:PHE:C	1:YG:62:LEU:CD1	2.44	0.90
3:A5:156:ILE:H	1:AJ:139:ARG:CZ	1.82	0.90
3:A5:197:VAL:HG11	5:DM:40:THR:HG22	1.54	0.90
1:g6:20:SER:HB2	1:CP:47:GLU:HG2	1.04	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y7:71:ARG:HH22	1:JR:210:ASN:HD22	1.12	0.90
1:BD:99:MET:CB	1:KS:25:PHE:CD1	2.51	0.90
1:LD:369:PHE:HE1	1:BK:107:LEU:HD11	1.36	0.90
1:CE:105:GLU:HB2	1:LP:109:LEU:HD23	0.90	0.90
2:JE:15:TYR:OH	1:DJ:133:LEU:HD12	1.72	0.90
2:hE:22:LYS:HG2	1:CR:360:LEU:CD2	2.00	0.90
1:AJ:82:ILE:HG12	1:JS:144:THR:H	1.34	0.90
1:DJ:302:ASP:HB2	1:LP:29:TYR:HH	1.07	0.90
1:KJ:144:THR:CA	1:AP:82:ILE:HG12	2.01	0.90
1:LJ:55:PHE:HE2	1:JS:58:ILE:HB	1.17	0.90
1:LJ:57:LYS:NZ	1:CS:87:GLU:OE2	2.03	0.90
1:AK:314:GLY:C	1:KP:31:LYS:HB2	1.96	0.90
5:DM:54:LYS:HD3	5:EO:25:ARG:NH1	1.87	0.90
2:U1:17:ASP:OD2	1:CJ:145:LEU:CD1	2.19	0.90
2:W1:15:TYR:OH	1:CS:133:LEU:HD12	1.72	0.90
1:I3:259:PHE:CE1	1:R8:259:PHE:HE1	1.79	0.90
1:J4:261:ILE:HG21	1:K4:260:GLN:OE1	1.70	0.90
2:U4:17:ASP:OD2	1:BS:145:LEU:CD1	2.19	0.90
4:B5:32:PHE:CG	5:FO:55:LEU:CD1	2.48	0.90
1:g6:62:LEU:CD1	2:JE:53:PHE:C	2.44	0.90
1:i6:20:SER:OG	1:DJ:47:GLU:HB3	1.51	0.90
1:C7:27:HIS:O	1:AK:100:ASP:OD2	1.88	0.90
2:X7:54:THR:HA	1:QQ:62:LEU:HD12	0.90	0.90
3:A9:154:ILE:CA	1:AK:139:ARG:NH2	2.34	0.90
3:AB:114:PHE:CE1	2:MD:19:ARG:O	2.25	0.90
3:AB:158:GLU:OE1	1:AD:370:ASP:OD2	1.88	0.90
1:KD:49:PHE:HB2	1:KS:22:LEU:HD11	1.51	0.90
1:KD:80:ASP:OD2	3:AF:65:ASN:ND2	0.75	0.90
1:LD:33:TRP:HH2	1:DK:173:ALA:HB1	1.12	0.90
1:aE:62:LEU:HD11	2:HR:54:THR:N	1.86	0.90
2:HG:53:PHE:C	1:YL:62:LEU:CD1	2.44	0.90
3:AH:112:ILE:CD1	2:MP:20:LEU:HD23	2.01	0.90
1:BJ:107:LEU:HD11	1:LP:369:PHE:HE1	1.36	0.90
1:KJ:145:LEU:HD11	1:AP:80:ASP:O	1.71	0.90
3:AO:32:PHE:CZ	1:IS:139:ARG:HB3	1.65	0.90
2:P1:53:PHE:C	1:IG:62:LEU:CD1	2.44	0.90
1:Q1:62:LEU:CD1	2:X6:53:PHE:C	2.44	0.90
1:Q3:360:LEU:CD2	2:P8:22:LYS:HG2	2.00	0.90
2:H4:53:PHE:C	1:QG:62:LEU:CD1	2.44	0.90
1:I4:62:LEU:CD1	2:H8:53:PHE:C	2.44	0.90
1:Q4:62:LEU:CD1	2:n8:53:PHE:C	2.44	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U4:1:MET:H2	1:BS:150:ASN:CG	1.70	0.90
1:Y4:93:ASP:OD1	1:Y8:158:LYS:NZ	2.04	0.90
3:A5:197:VAL:HG21	5:EO:37:ASP:OD1	1.69	0.90
3:A5:208:LYS:O	4:BO:250:ILE:HD11	1.69	0.90
1:Q6:367:PRO:HG2	1:LJ:375:TRP:CH2	2.06	0.90
1:Q6:367:PRO:O	1:LJ:377:HIS:HE1	1.55	0.90
1:g6:367:PRO:O	1:LP:377:HIS:HE1	1.55	0.90
1:B7:57:LYS:CD	1:DP:143:GLN:CD	1.90	0.90
1:R7:259:PHE:HE1	1:QQ:259:PHE:CE1	1.80	0.90
2:ND:15:TYR:HE2	1:YG:148:ALA:C	1.73	0.90
1:FE:365:HIS:NE2	2:HP:10:MET:HE3	1.83	0.90
1:CG:62:LEU:HD12	2:fL:54:THR:HA	0.90	0.90
1:CG:259:PHE:CE1	1:ZL:259:PHE:HE1	1.80	0.90
1:hG:261:ILE:HG21	1:iG:260:GLN:OE1	1.70	0.90
1:LJ:38:LYS:C	1:CS:222:SER:HB2	1.96	0.90
2:MJ:2:TYR:CD1	1:JS:150:ASN:ND2	2.24	0.90
1:CK:133:LEU:CD2	2:kR:11:MET:CG	2.49	0.90
1:KP:261:ILE:HG21	1:KP:265:ASP:CG	1.97	0.90
1:g1:261:ILE:HG21	1:h1:260:GLN:OE1	1.70	0.90
1:A4:93:ASP:OD1	1:QG:158:LYS:NZ	2.04	0.90
1:h4:105:GLU:HB2	1:LD:109:LEU:HD23	0.90	0.90
5:E5:25:ARG:NH1	5:DI:54:LYS:HD3	1.87	0.90
1:Z6:261:ILE:HG21	1:a6:260:GLN:OE1	1.70	0.90
1:C7:360:LEU:CD2	2:mR:22:LYS:HG2	2.00	0.90
1:A7:93:ASP:OD1	1:gR:158:LYS:NZ	2.04	0.90
1:R7:99:MET:SD	1:QQ:128:LYS:HD3	2.12	0.90
1:AD:145:LEU:HD21	3:AF:33:ASN:C	1.96	0.90
1:DD:316:VAL:HG13	1:KS:31:LYS:CB	2.01	0.90
2:nG:11:MET:HG2	1:YR:372:VAL:HG12	1.47	0.90
1:AJ:82:ILE:HG12	1:JS:144:THR:CA	2.01	0.90
1:BJ:108:MET:HE3	1:LP:369:PHE:CD2	2.05	0.90
2:P1:54:THR:HA	1:IG:62:LEU:HD12	0.91	0.90
1:X1:360:LEU:CD2	2:P6:22:LYS:HG2	2.00	0.90
1:Y1:93:ASP:OD1	1:I6:158:LYS:NZ	2.04	0.90
1:f1:158:LYS:NZ	1:AQ:93:ASP:OD1	2.04	0.90
2:P3:54:THR:N	1:Q8:62:LEU:HD11	1.86	0.90
1:Q3:62:LEU:HD11	2:P8:54:THR:N	1.86	0.90
2:H4:54:THR:N	1:QG:62:LEU:HD11	1.86	0.90
1:Q4:158:LYS:NZ	1:h8:93:ASP:OD1	2.04	0.90
2:U4:11:MET:CG	1:BS:133:LEU:CD2	2.50	0.90
1:f4:158:LYS:NZ	1:ZG:93:ASP:OD1	2.04	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:158:LYS:NZ	1:BE:93:ASP:OD1	2.04	0.90
2:n6:54:THR:N	1:AE:62:LEU:HD11	1.86	0.90
1:J7:261:ILE:HG21	1:K7:260:GLN:OE1	1.70	0.90
1:g8:367:PRO:HG2	1:KS:375:TRP:CH2	2.06	0.90
1:DD:314:GLY:C	1:KS:31:LYS:CG	2.44	0.90
2:MD:1:MET:HB3	2:GK:54:THR:O	1.72	0.90
1:DE:377:HIS:CD2	1:BP:370:ASP:OD2	2.25	0.90
2:HE:11:MET:CE	1:CP:372:VAL:CG1	2.46	0.90
2:RE:11:MET:HG2	1:SE:372:VAL:HG12	1.48	0.90
1:bE:210:ASN:HD22	1:CR:71:ARG:HH22	1.12	0.90
1:gG:62:LEU:CD1	2:HL:53:PHE:C	2.44	0.90
1:CK:38:LYS:HA	1:hR:222:SER:HB2	1.51	0.90
1:KK:98:ASN:HD21	1:KP:30:SER:HB3	1.14	0.90
1:AL:261:ILE:HG21	1:BL:260:GLN:OE1	1.70	0.90
1:IL:360:LEU:CD2	2:fR:22:LYS:HG2	2.00	0.90
1:I1:128:LYS:HD3	1:JG:99:MET:SD	2.12	0.90
3:A2:112:ILE:HG21	2:MD:5:ASN:ND2	1.87	0.90
1:C4:62:LEU:CD1	2:XG:53:PHE:C	2.44	0.90
1:I4:62:LEU:HD12	2:H8:54:THR:HA	0.91	0.90
1:J4:99:MET:SD	1:C8:128:LYS:HD3	2.12	0.90
1:f4:128:LYS:HD3	1:ZG:99:MET:SD	2.12	0.90
1:S6:14:VAL:CB	1:CS:14:VAL:HG11	2.01	0.90
1:h6:261:ILE:HG21	1:i6:260:GLN:OE1	1.70	0.90
1:C7:57:LYS:HB3	1:CK:143:GLN:NE2	1.85	0.90
1:C7:158:LYS:NZ	1:hR:93:ASP:OD1	2.04	0.90
2:f7:53:PHE:C	1:IR:62:LEU:CD1	2.44	0.90
1:DE:81:PHE:HE2	1:BP:139:ARG:HD3	1.26	0.90
1:bE:99:MET:SD	1:CR:128:LYS:HD3	2.12	0.90
2:HG:22:LYS:HG2	1:YL:360:LEU:CD2	2.00	0.90
5:EI:25:ARG:NH1	5:DO:54:LYS:HD3	1.87	0.90
1:KJ:13:LEU:O	1:LP:45:MET:HE2	1.72	0.90
1:LK:45:MET:HE2	1:KP:13:LEU:O	1.72	0.90
1:QL:62:LEU:CD1	2:XR:53:PHE:C	2.44	0.90
1:cQ:261:ILE:HG21	1:dQ:260:GLN:OE1	1.70	0.90
1:C1:62:LEU:CD1	2:H6:53:PHE:C	2.44	0.89
1:f1:62:LEU:HD11	2:HQ:54:THR:N	1.86	0.89
1:f1:360:LEU:CD2	2:HQ:22:LYS:HG2	2.00	0.89
5:E2:25:ARG:NH1	5:D9:54:LYS:HD3	1.87	0.89
1:I3:62:LEU:HD11	2:X8:54:THR:N	1.86	0.89
1:Q4:62:LEU:HD11	2:n8:54:THR:N	1.86	0.89
1:Y4:99:MET:SD	1:Y8:128:LYS:HD3	2.12	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y6:62:LEU:HD11	2:RE:54:THR:N	1.86	0.89
1:Z6:93:ASP:OD1	1:KE:158:LYS:NZ	2.04	0.89
2:P7:53:PHE:C	1:bQ:62:LEU:CD1	2.44	0.89
1:Y7:128:LYS:HD3	1:JR:99:MET:SD	2.12	0.89
1:g8:367:PRO:CG	1:KS:375:TRP:CD2	2.34	0.89
5:E9:25:ARG:NH1	5:DA:54:LYS:HD3	1.87	0.89
5:F9:41:ASN:CG	4:BB:38:GLN:HE21	1.79	0.89
1:SE:62:LEU:HD12	2:PQ:54:THR:HA	0.91	0.89
2:ZE:54:THR:N	1:IQ:62:LEU:HD11	1.86	0.89
1:AG:99:MET:SD	1:YL:128:LYS:HD3	2.12	0.89
3:AH:151:ASN:HB3	1:AP:135:ASN:ND2	1.86	0.89
5:EI:140:ASP:HB3	5:CI:139:LYS:HE2	0.91	0.89
1:CK:153:LEU:HD11	2:kR:5:ASN:H	1.31	0.89
1:IL:62:LEU:HD11	2:fR:54:THR:N	1.86	0.89
1:IL:158:LYS:NZ	1:ZR:93:ASP:OD1	2.04	0.89
1:IS:62:LEU:HB2	1:JS:88:GLU:HB2	0.92	0.89
1:A1:261:ILE:HG21	1:B1:260:GLN:OE1	1.70	0.89
1:I1:158:LYS:NZ	1:JG:93:ASP:OD1	2.04	0.89
1:T1:370:ASP:OD2	1:CJ:361:LYS:NZ	2.04	0.89
2:U1:11:MET:HG2	1:CJ:133:LEU:HD22	1.54	0.89
1:Y1:99:MET:SD	1:I6:128:LYS:HD3	2.12	0.89
5:E2:57:GLU:CB	4:BF:33:TYR:HE1	1.73	0.89
2:W4:53:PHE:C	1:g8:62:LEU:CD1	2.44	0.89
2:j4:11:MET:CG	1:CD:133:LEU:CD2	2.50	0.89
2:l4:15:TYR:OH	1:DK:133:LEU:HD12	1.72	0.89
1:A7:99:MET:SD	1:gR:128:LYS:HD3	2.12	0.89
1:B7:14:VAL:CB	1:DP:14:VAL:HG11	2.01	0.89
2:f7:54:THR:HA	1:IR:62:LEU:HD12	0.91	0.89
1:g8:367:PRO:O	1:KS:377:HIS:HE1	1.55	0.89
1:i8:14:VAL:CB	1:DD:14:VAL:HG11	2.01	0.89
1:BE:261:ILE:HG21	1:CE:260:GLN:OE1	1.70	0.89
5:EF:140:ASP:CA	5:CF:139:LYS:CB	2.00	0.89
1:LJ:367:PRO:HG3	1:CS:362:PRO:O	1.71	0.89
1:CK:361:LYS:NZ	1:jR:370:ASP:OD2	2.04	0.89
1:JL:261:ILE:HG21	1:KL:260:GLN:OE1	1.70	0.89
3:AM:112:ILE:O	2:LS:18:SER:HA	1.71	0.89
3:AM:116:VAL:CG1	2:LS:7:MET:SD	2.36	0.89
1:Q1:62:LEU:HD11	2:X6:54:THR:N	1.86	0.89
2:U1:11:MET:CG	1:CJ:133:LEU:CD2	2.50	0.89
1:X1:158:LYS:NZ	1:J6:93:ASP:OD1	2.04	0.89
1:C3:62:LEU:HD11	2:n7:54:THR:N	1.86	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H3:54:THR:HA	1:g7:62:LEU:HD12	0.91	0.89
1:J4:93:ASP:OD1	1:C8:158:LYS:NZ	2.04	0.89
1:X4:158:LYS:NZ	1:Z8:93:ASP:OD1	2.04	0.89
3:A5:149:GLN:HE21	1:AJ:149:THR:HG21	1.37	0.89
1:Y6:62:LEU:CD1	2:RE:53:PHE:C	2.44	0.89
1:I7:158:LYS:NZ	1:cQ:93:ASP:OD1	2.04	0.89
1:Z7:210:ASN:HD22	1:IR:71:ARG:HH22	1.12	0.89
1:AD:100:ASP:CG	1:YG:26:ASN:O	2.16	0.89
1:LD:25:PHE:CE1	1:DK:126:VAL:HG11	2.06	0.89
1:LD:45:MET:HE2	1:KK:13:LEU:O	1.72	0.89
1:LE:261:ILE:HG21	1:ME:260:GLN:OE1	1.70	0.89
1:aE:158:LYS:NZ	1:AR:93:ASP:OD1	2.04	0.89
5:FI:41:ASN:CG	4:BN:38:GLN:HE21	1.79	0.89
1:AJ:314:GLY:C	1:JS:31:LYS:HB2	1.96	0.89
1:DJ:121:TYR:CD1	1:LP:36:GLY:HA2	2.08	0.89
1:IL:58:ILE:HG13	1:ZR:85:TYR:O	1.73	0.89
2:H1:53:PHE:C	1:C6:62:LEU:CD1	2.44	0.89
1:f1:58:ILE:HG13	1:AQ:85:TYR:O	1.73	0.89
1:R3:85:TYR:O	1:I8:58:ILE:HG13	1.73	0.89
5:F5:41:ASN:CG	4:BH:38:GLN:HE21	1.79	0.89
1:A6:261:ILE:HG21	1:B6:260:GLN:OE1	1.70	0.89
1:Q6:28:ASP:O	1:AJ:98:ASN:HB2	1.72	0.89
1:g6:28:ASP:O	1:AP:98:ASN:HB2	1.72	0.89
2:n6:53:PHE:C	1:AE:62:LEU:CD1	2.44	0.89
1:Y7:62:LEU:HD11	2:PR:54:THR:N	1.86	0.89
5:DB:54:LYS:HD3	5:EF:25:ARG:NH1	1.87	0.89
3:AC:210:SER:OG	4:BN:249:GLN:HA	1.73	0.89
1:AD:98:ASN:HB2	1:YG:28:ASP:O	1.72	0.89
1:KD:31:LYS:HB2	1:IS:314:GLY:C	1.96	0.89
1:KD:144:THR:CA	1:IS:82:ILE:HG12	2.01	0.89
1:KD:366:ASN:OD1	1:JS:108:MET:CB	2.11	0.89
1:LD:367:PRO:HG3	1:DK:362:PRO:O	1.71	0.89
1:aE:58:ILE:HG13	1:AR:85:TYR:O	1.73	0.89
1:CG:58:ILE:HG13	1:ZL:85:TYR:O	1.73	0.89
1:hG:93:ASP:OD1	1:CL:158:LYS:NZ	2.04	0.89
3:AH:151:ASN:CB	1:AP:135:ASN:CG	2.46	0.89
3:AI:104:GLN:NE2	2:MJ:19:ARG:HB2	1.81	0.89
1:AJ:62:LEU:HB2	1:KJ:88:GLU:HB2	0.92	0.89
1:KJ:80:ASP:CA	3:AN:64:GLN:O	2.21	0.89
1:KJ:139:ARG:NH1	1:AP:81:PHE:CD2	2.08	0.89
1:QL:62:LEU:HD11	2:XR:54:THR:N	1.86	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZR:261:ILE:HG21	1:aR:260:GLN:OE1	1.70	0.89
1:I4:158:LYS:NZ	1:A8:93:ASP:OD1	2.04	0.89
1:i6:47:GLU:HB3	1:DJ:20:SER:HB2	1.55	0.89
2:GD:54:THR:O	2:LS:1:MET:HB3	1.72	0.89
1:LD:28:ASP:CA	1:DK:304:GLN:NE2	2.36	0.89
2:hE:54:THR:HA	1:CR:62:LEU:HD12	0.91	0.89
1:CG:62:LEU:CD1	2:fL:53:PHE:C	2.44	0.89
1:AG:85:TYR:O	1:YL:58:ILE:HG13	1.73	0.89
2:nG:53:PHE:C	1:CL:62:LEU:CD1	2.44	0.89
3:AI:32:PHE:CZ	1:IS:54:LEU:CB	2.55	0.89
1:DJ:362:PRO:O	1:LP:367:PRO:HG3	1.71	0.89
2:FJ:2:TYR:CD2	1:LP:153:LEU:CD1	2.56	0.89
1:LK:261:ILE:CD1	1:LK:265:ASP:OD2	2.21	0.89
1:C1:58:ILE:HG13	1:A6:85:TYR:O	1.73	0.89
1:A1:85:TYR:O	1:C6:58:ILE:HG13	1.73	0.89
1:J1:93:ASP:OD1	1:IG:158:LYS:NZ	2.04	0.89
1:Q1:58:ILE:HG13	1:R6:85:TYR:O	1.73	0.89
1:Q1:71:ARG:HH22	1:R6:210:ASN:HD22	1.12	0.89
1:R1:105:GLU:H	1:AS:110:LYS:HZ1	1.13	0.89
2:W1:53:PHE:C	1:Q6:62:LEU:CD1	2.44	0.89
2:W1:54:THR:HG23	2:NJ:1:MET:SD	2.09	0.89
2:e1:54:THR:HA	1:I6:62:LEU:HD12	0.91	0.89
5:D2:40:THR:HG22	3:AM:197:VAL:HG11	1.54	0.89
1:Q3:158:LYS:NZ	1:J8:93:ASP:OD1	2.04	0.89
1:R4:99:MET:SD	1:g8:128:LYS:HD3	2.12	0.89
1:X4:58:ILE:HG13	1:Z8:85:TYR:O	1.73	0.89
1:g4:93:ASP:OD1	1:YG:158:LYS:NZ	2.04	0.89
3:A5:210:SER:OG	4:BO:249:GLN:HA	1.73	0.89
1:g6:27:HIS:O	1:AP:100:ASP:OD2	1.88	0.89
1:C7:62:LEU:HD12	2:mR:54:THR:HA	0.90	0.89
2:H7:54:THR:HA	1:gR:62:LEU:HD12	0.91	0.89
1:Q7:58:ILE:HG13	1:RQ:85:TYR:O	1.73	0.89
1:Q7:62:LEU:HD12	2:XQ:54:THR:HA	0.91	0.89
1:Y7:62:LEU:CD1	2:PR:53:PHE:C	2.44	0.89
1:Z7:85:TYR:O	1:IR:58:ILE:HG13	1.73	0.89
3:AB:155:GLU:OE2	1:AD:136:ASN:CB	2.20	0.89
4:BB:250:ILE:HD11	3:AM:208:LYS:O	1.69	0.89
5:EB:140:ASP:HB3	5:CB:139:LYS:HE2	0.91	0.89
1:KD:261:ILE:HG21	1:KD:265:ASP:CG	1.97	0.89
1:LD:31:LYS:CB	1:DK:316:VAL:HG13	2.02	0.89
5:EI:140:ASP:CA	5:CI:139:LYS:CB	2.00	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:261:ILE:CG2	1:BJ:265:ASP:OD2	2.21	0.89
1:BJ:370:ASP:OD2	1:gL:377:HIS:CD2	2.25	0.89
1:KJ:261:ILE:HG21	1:KJ:265:ASP:CG	1.97	0.89
1:LJ:144:THR:H	1:CS:82:ILE:CD1	1.81	0.89
1:LJ:261:ILE:CD1	1:LJ:265:ASP:OD2	2.21	0.89
1:QL:58:ILE:HG13	1:RR:85:TYR:O	1.73	0.89
2:XL:53:PHE:C	1:QR:62:LEU:CD1	2.44	0.89
1:AQ:261:ILE:HG21	1:BQ:260:GLN:OE1	1.70	0.89
1:C1:128:LYS:HD3	1:A6:99:MET:SD	2.12	0.89
2:H1:54:THR:N	1:C6:62:LEU:HD11	1.86	0.89
1:I1:62:LEU:HD12	2:PG:54:THR:HA	0.91	0.89
1:X1:62:LEU:HD12	2:P6:54:THR:HA	0.90	0.89
1:f1:128:LYS:HD3	1:AQ:99:MET:SD	2.12	0.89
1:g1:99:MET:SD	1:CQ:128:LYS:HD3	2.12	0.89
3:A2:194:ASN:CG	5:EA:36:ALA:O	2.16	0.89
1:Q3:128:LYS:HD3	1:J8:99:MET:SD	2.12	0.89
1:C4:128:LYS:HD3	1:RG:99:MET:SD	2.12	0.89
2:P4:54:THR:HA	1:C8:62:LEU:HD12	0.91	0.89
1:T4:365:HIS:HD2	2:GS:10:MET:SD	1.95	0.89
1:g4:85:TYR:O	1:YG:58:ILE:HG13	1.73	0.89
1:Z6:99:MET:SD	1:KE:128:LYS:HD3	2.12	0.89
1:g6:128:LYS:HD3	1:BE:99:MET:SD	2.12	0.89
1:C7:21:ALA:N	1:CK:47:GLU:HG3	1.77	0.89
1:I7:128:LYS:HD3	1:cQ:99:MET:SD	2.12	0.89
1:Y7:58:ILE:HG13	1:JR:85:TYR:O	1.73	0.89
1:Z7:93:ASP:OD1	1:IR:158:LYS:NZ	2.04	0.89
1:g8:26:ASN:O	1:IS:100:ASP:CG	2.16	0.89
5:EC:25:ARG:NH1	5:DH:54:LYS:HD3	1.87	0.89
1:BD:107:LEU:HD11	1:KS:369:PHE:HE1	1.36	0.89
1:BD:261:ILE:CG2	1:BD:265:ASP:OD2	2.21	0.89
1:DD:304:GLN:NE2	1:KS:28:ASP:CA	2.36	0.89
1:DD:384:ILE:HD13	1:KS:35:PHE:HE1	1.38	0.89
1:LD:139:ARG:HB2	1:DK:81:PHE:HE2	1.32	0.89
1:gG:62:LEU:HD12	2:HL:54:THR:HA	0.90	0.89
1:hG:99:MET:SD	1:CL:128:LYS:HD3	2.12	0.89
2:nG:54:THR:HA	1:CL:62:LEU:HD12	0.91	0.89
1:DJ:222:SER:HB2	1:LP:38:LYS:C	1.96	0.89
1:DJ:316:VAL:HG13	1:LP:31:LYS:CB	2.01	0.89
1:LJ:31:LYS:CB	1:CS:316:VAL:HG13	2.01	0.89
1:IL:128:LYS:HD3	1:ZR:99:MET:SD	2.12	0.89
3:AM:112:ILE:CG1	2:LS:17:ASP:OD2	2.19	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YQ:377:HIS:CD2	1:AS:370:ASP:OD2	2.25	0.89
1:C1:62:LEU:HD11	2:H6:54:THR:N	1.86	0.89
1:Y1:85:TYR:O	1:I6:58:ILE:HG13	1.73	0.89
5:E2:36:ALA:O	3:AF:194:ASN:CG	2.16	0.89
1:I3:158:LYS:NZ	1:R8:93:ASP:OD1	2.04	0.89
1:J3:93:ASP:OD1	1:Q8:158:LYS:NZ	2.04	0.89
3:A5:116:VAL:HG13	2:MJ:21:ASN:ND2	1.72	0.89
1:i6:14:VAL:CB	1:DJ:14:VAL:HG11	2.01	0.89
1:I7:62:LEU:CD1	2:iQ:53:PHE:C	2.44	0.89
5:EA:25:ARG:NH1	5:DC:54:LYS:HD3	1.87	0.89
1:SE:128:LYS:HD3	1:JQ:99:MET:SD	2.12	0.89
1:gG:128:LYS:HD3	1:AL:99:MET:SD	2.12	0.89
1:LJ:140:PHE:C	1:CS:84:GLN:CG	2.46	0.89
1:LK:31:LYS:CB	1:DP:316:VAL:HG13	2.01	0.89
1:JL:99:MET:SD	1:YR:128:LYS:HD3	2.12	0.89
1:JQ:261:ILE:HG21	1:KQ:260:GLN:OE1	1.70	0.89
1:J1:99:MET:SD	1:IG:128:LYS:HD3	2.12	0.89
3:A2:64:GLN:HG2	1:KK:80:ASP:HA	1.55	0.89
1:A3:99:MET:SD	1:g7:128:LYS:HD3	2.12	0.89
1:I3:128:LYS:HD3	1:R8:99:MET:SD	2.12	0.89
1:Y3:377:HIS:CD2	1:BK:370:ASP:OD2	2.25	0.89
2:j4:17:ASP:OD2	1:CD:145:LEU:CD1	2.19	0.89
1:g6:81:PHE:CD2	1:DJ:139:ARG:HD3	2.05	0.89
1:A7:85:TYR:O	1:gR:58:ILE:HG13	1.73	0.89
1:J7:99:MET:SD	1:bQ:128:LYS:HD3	2.12	0.89
2:f7:54:THR:N	1:IR:62:LEU:CD1	2.36	0.89
1:g8:54:LEU:HA	1:KS:118:THR:HG21	1.48	0.89
1:AD:100:ASP:OD2	1:YG:27:HIS:O	1.88	0.89
1:KD:374:HIS:HE1	2:LS:8:ARG:HH12	0.91	0.89
1:LD:33:TRP:CZ3	1:DK:173:ALA:CB	2.47	0.89
1:DJ:174:MET:CA	1:LP:33:TRP:CE2	2.46	0.89
3:AN:104:GLN:OE1	2:MP:9:SER:OG	1.90	0.89
1:JS:261:ILE:HG21	1:JS:265:ASP:CG	1.97	0.89
1:S1:98:ASN:CB	1:CJ:28:ASP:O	2.21	0.89
1:X1:62:LEU:CD1	2:P6:54:THR:N	2.36	0.89
1:X1:128:LYS:HD3	1:J6:99:MET:SD	2.12	0.89
1:f1:46:PHE:HD1	1:AQ:85:TYR:HH	1.20	0.89
1:f1:62:LEU:CD1	2:HQ:53:PHE:C	2.44	0.89
1:J3:99:MET:SD	1:Q8:128:LYS:HD3	2.12	0.89
1:Q3:58:ILE:HG13	1:J8:85:TYR:O	1.73	0.89
1:b3:377:HIS:CD2	1:BD:370:ASP:OD2	2.25	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H4:54:THR:N	1:QG:62:LEU:CD1	2.36	0.89
1:I4:128:LYS:HD3	1:A8:99:MET:SD	2.12	0.89
1:Q4:62:LEU:CD1	2:n8:54:THR:N	2.36	0.89
1:T4:44:THR:CA	1:AS:17:SER:HB3	2.03	0.89
1:g4:82:ILE:HG13	1:CD:142:PHE:O	1.73	0.89
3:A5:156:ILE:N	1:AJ:139:ARG:HH22	1.67	0.89
5:D5:54:LYS:HD3	5:EN:25:ARG:NH1	1.87	0.89
1:g6:62:LEU:CD1	2:JE:54:THR:N	2.36	0.89
1:C7:62:LEU:CD1	2:mR:54:THR:N	2.36	0.89
1:C7:128:LYS:HD3	1:hR:99:MET:SD	2.12	0.89
1:I7:62:LEU:HD12	2:iQ:54:THR:HA	0.91	0.89
2:P7:54:THR:N	1:bQ:62:LEU:CD1	2.36	0.89
3:A9:194:ASN:CG	5:EC:36:ALA:O	2.16	0.89
3:AA:194:ASN:CG	5:EH:36:ALA:O	2.16	0.89
1:KD:370:ASP:HB2	1:IS:377:HIS:CE1	2.08	0.89
1:LD:36:GLY:HA2	1:DK:121:TYR:CD1	2.08	0.89
2:GE:1:MET:HE3	2:EP:54:THR:HB	1.55	0.89
2:HE:11:MET:HG2	1:CP:133:LEU:HD22	1.54	0.89
1:TE:99:MET:SD	1:IQ:128:LYS:HD3	2.12	0.89
5:DF:40:THR:HG22	3:AI:197:VAL:HG11	1.54	0.89
2:HG:54:THR:HA	1:YL:62:LEU:HD12	0.91	0.89
2:HG:54:THR:N	1:YL:62:LEU:HD11	1.86	0.89
1:gG:62:LEU:CD1	2:HL:54:THR:N	2.36	0.89
1:hG:85:TYR:O	1:CL:58:ILE:HG13	1.73	0.89
1:KJ:25:PHE:O	1:KP:100:ASP:HA	1.55	0.89
1:LJ:14:VAL:O	1:JS:45:MET:CG	2.10	0.89
2:MK:8:ARG:HH12	1:KP:374:HIS:HE1	0.91	0.89
1:IL:62:LEU:CD1	2:fR:53:PHE:C	2.44	0.89
1:hR:261:ILE:HG21	1:iR:260:GLN:OE1	1.70	0.89
1:I1:62:LEU:CD1	2:PG:54:THR:N	2.36	0.88
2:m1:11:MET:HG3	1:gR:133:LEU:HB2	1.56	0.88
5:E2:55:LEU:CD2	5:EB:21:ILE:CG2	2.38	0.88
1:C3:128:LYS:HD3	1:h7:99:MET:SD	2.12	0.88
1:A3:261:ILE:HG21	1:B3:260:GLN:OE1	1.70	0.88
2:H3:54:THR:N	1:g7:62:LEU:CD1	2.36	0.88
1:I3:58:ILE:HG13	1:R8:85:TYR:O	1.73	0.88
1:I3:372:VAL:HG12	2:XR:11:MET:HG2	1.47	0.88
1:J3:85:TYR:O	1:Q8:58:ILE:HG13	1.73	0.88
1:C4:62:LEU:HD12	2:XG:54:THR:HA	0.91	0.88
2:P4:54:THR:N	1:C8:62:LEU:CD1	2.36	0.88
1:S4:105:GLU:HB2	1:KS:109:LEU:HD23	0.90	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:128:LYS:HD3	1:Z8:99:MET:SD	2.12	0.88
1:Y4:261:ILE:HG21	1:Z4:260:GLN:OE1	1.70	0.88
1:f4:58:ILE:HG13	1:ZG:85:TYR:O	1.73	0.88
1:f4:62:LEU:CD1	2:fG:53:PHE:C	2.44	0.88
1:g4:99:MET:SD	1:YG:128:LYS:HD3	2.12	0.88
1:i4:365:HIS:HD2	2:HD:10:MET:SD	1.95	0.88
5:D5:40:THR:HG22	3:AC:197:VAL:HG11	1.54	0.88
1:I6:133:LEU:HB2	2:PL:11:MET:HG3	1.56	0.88
1:Q6:33:TRP:N	1:LJ:174:MET:CE	2.20	0.88
1:Q6:57:LYS:CB	1:CJ:143:GLN:HE21	1.86	0.88
2:f6:54:THR:N	1:KE:62:LEU:CD1	2.36	0.88
2:n6:11:MET:HG3	1:g7:133:LEU:HB2	1.56	0.88
1:I7:58:ILE:HG13	1:cQ:85:TYR:O	1.73	0.88
1:Q7:158:LYS:NZ	1:RQ:93:ASP:OD1	2.04	0.88
1:R7:85:TYR:O	1:QQ:58:ILE:HG13	1.73	0.88
2:X7:54:THR:N	1:QQ:62:LEU:CD1	2.36	0.88
1:J8:261:ILE:HG21	1:K8:260:GLN:OE1	1.70	0.88
3:AA:107:LEU:CG	2:MK:19:ARG:HH22	1.86	0.88
3:AA:115:ILE:HG12	2:MK:7:MET:CE	2.02	0.88
5:EA:140:ASP:CG	5:CA:139:LYS:CE	2.37	0.88
4:BB:250:ILE:HD13	3:AM:209:MET:HG2	1.56	0.88
1:AD:140:PHE:HA	3:AF:29:ARG:NE	1.87	0.88
1:KD:30:SER:C	1:IS:315:ALA:CA	2.46	0.88
1:BE:82:ILE:HG13	1:CP:142:PHE:O	1.73	0.88
1:CE:98:ASN:CB	1:CP:28:ASP:O	2.21	0.88
2:RE:11:MET:HG3	1:SE:133:LEU:HB2	1.56	0.88
1:SE:62:LEU:CD1	2:PQ:54:THR:N	2.36	0.88
1:TE:85:TYR:O	1:IQ:58:ILE:HG13	1.73	0.88
1:aE:128:LYS:HD3	1:AR:99:MET:SD	2.12	0.88
5:EF:140:ASP:HB3	5:CF:139:LYS:HE2	0.91	0.88
3:AH:114:PHE:CE1	2:MP:18:SER:OG	2.26	0.88
3:AH:197:VAL:HG11	5:DI:40:THR:HG22	1.54	0.88
5:EH:140:ASP:HB2	5:CH:139:LYS:CG	2.04	0.88
1:DJ:173:ALA:HB1	1:LP:33:TRP:HH2	1.11	0.88
1:KK:261:ILE:HG21	1:KK:265:ASP:CG	1.97	0.88
1:LK:28:ASP:CA	1:DP:304:GLN:NE2	2.36	0.88
1:LK:153:LEU:CD1	2:FP:2:TYR:CD2	2.56	0.88
1:JL:85:TYR:HH	1:YR:46:PHE:HD1	1.14	0.88
1:QL:71:ARG:HH22	1:RR:210:ASN:HD22	1.12	0.88
5:EN:140:ASP:CB	5:CN:139:LYS:CG	2.52	0.88
1:CQ:375:TRP:CE3	1:gR:367:PRO:HG2	2.09	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:99:MET:SD	1:C6:128:LYS:HD3	2.12	0.88
1:I1:62:LEU:CD1	2:PG:53:PHE:C	2.44	0.88
1:X1:375:TRP:CE3	1:IR:367:PRO:HG2	2.09	0.88
1:C3:58:ILE:HG13	1:h7:85:TYR:O	1.73	0.88
1:Q3:62:LEU:CD1	2:P8:53:PHE:C	2.44	0.88
1:Q3:375:TRP:CE3	1:CR:367:PRO:HG2	2.09	0.88
1:R3:99:MET:SD	1:I8:128:LYS:HD3	2.12	0.88
2:X3:54:THR:N	1:I8:62:LEU:CD1	2.36	0.88
1:A4:99:MET:SD	1:QG:128:LYS:HD3	2.12	0.88
2:P4:53:PHE:C	1:C8:62:LEU:CD1	2.44	0.88
1:Q4:128:LYS:HD3	1:h8:99:MET:SD	2.12	0.88
2:W4:54:THR:HA	1:g8:62:LEU:HD12	0.91	0.88
1:Y4:85:TYR:O	1:Y8:58:ILE:HG13	1.73	0.88
2:b4:45:ILE:CG1	2:b4:46:HIS:N	2.36	0.88
1:i4:44:THR:CA	1:BD:17:SER:HB3	2.03	0.88
1:I6:367:PRO:HG2	1:YR:375:TRP:CE3	2.09	0.88
1:J6:261:ILE:HG21	1:K6:260:GLN:OE1	1.70	0.88
1:i6:144:THR:H	1:BJ:82:ILE:HD11	1.21	0.88
1:Y7:62:LEU:CD1	2:PR:54:THR:N	2.36	0.88
3:AA:112:ILE:C	2:MK:13:THR:CB	2.43	0.88
1:LD:118:THR:HG21	1:YG:54:LEU:HA	1.49	0.88
5:EF:140:ASP:HB2	5:CF:139:LYS:CG	2.04	0.88
1:CG:62:LEU:CD1	2:fL:54:THR:N	2.36	0.88
4:BI:250:ILE:HD13	3:AN:209:MET:HG2	1.56	0.88
5:EI:36:ALA:O	3:AN:194:ASN:CG	2.16	0.88
1:DJ:304:GLN:NE2	1:LP:28:ASP:CA	2.36	0.88
1:LJ:58:ILE:HG21	1:JS:55:PHE:HD2	1.14	0.88
2:cL:45:ILE:CG1	2:cL:46:HIS:N	2.36	0.88
1:AS:261:ILE:CG2	1:AS:265:ASP:OD2	2.21	0.88
1:Q1:128:LYS:HD3	1:R6:99:MET:SD	2.12	0.88
1:X1:58:ILE:HG13	1:J6:85:TYR:O	1.73	0.88
1:X1:367:PRO:HG2	1:I8:375:TRP:CE3	2.09	0.88
3:A2:210:SER:OG	4:BA:249:GLN:HA	1.73	0.88
5:D2:54:LYS:HD3	5:EB:25:ARG:NH1	1.87	0.88
1:Q3:367:PRO:HG2	1:X4:375:TRP:CE3	2.09	0.88
1:h4:98:ASN:CB	1:CD:28:ASP:O	2.21	0.88
2:H6:11:MET:HG3	1:Y8:133:LEU:HB2	1.55	0.88
1:Q6:33:TRP:H	1:LJ:174:MET:HE3	0.76	0.88
1:C7:26:ASN:O	1:AK:100:ASP:CG	2.16	0.88
1:C7:81:PHE:CD2	1:DP:139:ARG:HD3	2.05	0.88
4:BB:249:GLN:HA	3:AM:210:SER:OG	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EB:140:ASP:CB	5:CB:139:LYS:CG	2.52	0.88
1:AD:59:ASN:OD1	1:AD:143:GLN:N	2.07	0.88
1:AD:377:HIS:CE1	1:KK:370:ASP:HB2	2.08	0.88
1:BD:105:GLU:O	1:KS:369:PHE:CE2	2.26	0.88
1:KD:21:ALA:CB	1:IS:123:ASN:HD22	1.74	0.88
1:LD:153:LEU:CD1	2:FK:2:TYR:CD2	2.56	0.88
1:LD:369:PHE:CE2	1:BK:105:GLU:O	2.26	0.88
1:LD:377:HIS:HE1	1:YG:367:PRO:O	1.55	0.88
5:EF:36:ALA:O	3:AO:194:ASN:CG	2.16	0.88
2:cG:45:ILE:CG1	2:cG:46:HIS:N	2.36	0.88
5:EH:25:ARG:NH1	5:DN:54:LYS:HD3	1.87	0.88
3:AI:194:ASN:CG	5:EM:36:ALA:O	2.16	0.88
4:BI:249:GLN:HA	3:AN:210:SER:OG	1.73	0.88
1:KJ:357:LYS:HE3	3:AN:67:ASN:ND2	1.89	0.88
2:MJ:8:ARG:HH12	1:JS:374:HIS:HE1	0.91	0.88
1:QL:128:LYS:HD3	1:RR:99:MET:SD	2.12	0.88
1:ZL:261:ILE:HG21	1:aL:260:GLN:OE1	1.70	0.88
1:DP:133:LEU:HD12	2:mR:15:TYR:OH	1.72	0.88
1:C1:375:TRP:CE3	1:Y8:367:PRO:HG2	2.09	0.88
2:H1:11:MET:HG3	1:f4:133:LEU:HB2	1.55	0.88
1:I1:58:ILE:HG13	1:JG:85:TYR:O	1.73	0.88
2:e1:54:THR:N	1:I6:62:LEU:CD1	2.36	0.88
1:C3:62:LEU:CD1	2:n7:53:PHE:C	2.44	0.88
2:X3:54:THR:HA	1:I8:62:LEU:HD12	0.91	0.88
1:C4:62:LEU:CD1	2:XG:54:THR:N	2.36	0.88
1:C4:375:TRP:CE3	1:aE:367:PRO:HG2	2.09	0.88
1:J4:85:TYR:O	1:C8:58:ILE:HG13	1.73	0.88
1:Q4:58:ILE:HG13	1:h8:85:TYR:O	1.73	0.88
2:W4:54:THR:N	1:g8:62:LEU:CD1	2.36	0.88
1:f4:367:PRO:HG2	1:C6:375:TRP:CE3	2.09	0.88
2:l4:4:GLY:HA3	1:DK:153:LEU:HD21	1.56	0.88
3:A5:194:ASN:CG	5:EO:36:ALA:O	2.16	0.88
1:g6:222:SER:OG	1:DJ:53:TYR:CD1	2.26	0.88
1:C7:14:VAL:HB	1:CK:45:MET:HE1	1.50	0.88
1:C7:58:ILE:HG13	1:hR:85:TYR:O	1.73	0.88
2:P7:54:THR:HA	1:bQ:62:LEU:HD12	0.90	0.88
1:Z7:99:MET:SD	1:IR:128:LYS:HD3	2.12	0.88
5:E9:140:ASP:HB2	5:C9:139:LYS:CG	2.04	0.88
3:AA:107:LEU:C	2:MK:19:ARG:HD2	1.98	0.88
5:EB:36:ALA:O	3:AM:194:ASN:CG	2.16	0.88
1:DD:82:ILE:CD1	1:KS:144:THR:H	1.81	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:55:PHE:HB2	1:IS:120:LEU:HD12	1.56	0.88
2:MD:51:GLN:CG	3:AF:114:PHE:CZ	2.53	0.88
1:TE:261:ILE:HG21	1:UE:260:GLN:OE1	1.70	0.88
2:ZE:53:PHE:C	1:IQ:62:LEU:CD1	2.44	0.88
1:ZG:261:ILE:HG21	1:aG:260:GLN:OE1	1.70	0.88
3:AH:202:ASN:ND2	5:DI:38:TYR:CB	2.37	0.88
1:AJ:59:ASN:OD1	1:AJ:143:GLN:N	2.07	0.88
2:MJ:1:MET:HB3	2:FS:54:THR:O	1.72	0.88
3:AN:202:ASN:ND2	5:DO:38:TYR:CB	2.37	0.88
5:EO:140:ASP:CB	5:CO:139:LYS:CG	2.51	0.88
1:KS:261:ILE:CD1	1:KS:265:ASP:OD2	2.21	0.88
1:T1:51:ASN:ND2	1:CJ:116:MET:CE	2.34	0.88
1:f1:62:LEU:CD1	2:HQ:54:THR:N	2.36	0.88
1:f1:375:TRP:CE3	1:QG:367:PRO:HG2	2.09	0.88
2:e4:53:PHE:C	1:Y8:62:LEU:CD1	2.44	0.88
1:g6:26:ASN:O	1:AP:100:ASP:CG	2.16	0.88
1:g6:28:ASP:N	1:AP:100:ASP:OD2	2.07	0.88
1:C7:367:PRO:CG	1:LK:375:TRP:CH2	2.57	0.88
2:H7:54:THR:N	1:gR:62:LEU:CD1	2.36	0.88
1:g7:367:PRO:HG2	1:AE:375:TRP:CE3	2.09	0.88
1:i8:47:GLU:HB3	1:DD:20:SER:HB2	1.55	0.88
1:AD:100:ASP:OD2	1:YG:28:ASP:N	2.07	0.88
1:AD:120:LEU:HD12	1:KK:55:PHE:HB2	1.56	0.88
1:AD:144:THR:CB	3:AF:36:LEU:HD11	2.04	0.88
1:AD:315:ALA:CA	1:KK:30:SER:C	2.46	0.88
1:DD:375:TRP:CZ3	1:KS:367:PRO:HG2	2.08	0.88
1:LD:140:PHE:C	1:DK:84:GLN:CG	2.46	0.88
5:EF:140:ASP:CB	5:CF:139:LYS:CG	2.51	0.88
1:BK:17:SER:HB3	1:jR:44:THR:CA	2.03	0.88
1:CK:54:LEU:HD22	1:hR:116:MET:HE2	1.56	0.88
1:LK:109:LEU:HD23	1:iR:105:GLU:HB2	0.90	0.88
1:IL:62:LEU:CD1	2:fR:54:THR:N	2.36	0.88
1:IL:367:PRO:HG2	1:IQ:375:TRP:CE3	2.09	0.88
5:EN:140:ASP:HB2	5:CN:139:LYS:CG	2.04	0.88
1:f1:367:PRO:HG2	1:C3:375:TRP:CE3	2.09	0.88
1:C3:62:LEU:CD1	2:n7:54:THR:N	2.36	0.88
1:A4:85:TYR:O	1:QG:58:ILE:HG13	1.73	0.88
2:W4:15:TYR:OH	1:DD:133:LEU:HD12	1.72	0.88
1:X4:62:LEU:CD1	2:f8:54:THR:N	2.36	0.88
2:l4:54:THR:N	1:YG:62:LEU:CD1	2.36	0.88
3:A5:116:VAL:CA	2:MJ:21:ASN:ND2	2.35	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q6:367:PRO:CG	1:LJ:375:TRP:CH2	2.57	0.88
1:Y6:375:TRP:CE3	1:SE:367:PRO:HG2	2.09	0.88
1:Z6:85:TYR:O	1:KE:58:ILE:HG13	1.73	0.88
1:g6:58:ILE:HG13	1:BE:85:TYR:O	1.73	0.88
1:I8:367:PRO:HG2	1:IR:375:TRP:CE3	2.09	0.88
1:g8:57:LYS:CB	1:BS:143:GLN:HE21	1.86	0.88
3:A9:104:GLN:HB2	1:KK:78:GLU:CD	1.98	0.88
3:AA:197:VAL:HG11	5:DN:40:THR:HG22	1.54	0.88
3:AA:209:MET:HG2	4:BH:250:ILE:HD13	1.56	0.88
1:CD:45:MET:HE1	1:YG:14:VAL:HB	1.50	0.88
1:LD:22:LEU:HD11	1:KK:49:PHE:HB2	1.51	0.88
2:ZE:54:THR:N	1:IQ:62:LEU:CD1	2.36	0.88
2:HG:54:THR:N	1:YL:62:LEU:CD1	2.36	0.88
2:EJ:54:THR:HB	2:iL:1:MET:HE3	1.55	0.88
2:GJ:54:THR:O	2:MP:1:MET:HB3	1.72	0.88
1:KJ:78:GLU:OE2	3:AN:81:LEU:HD13	1.06	0.88
1:LJ:36:GLY:HA2	1:CS:121:TYR:CD1	2.08	0.88
1:LK:22:LEU:HD11	1:KP:49:PHE:HB2	1.51	0.88
1:LK:45:MET:HG3	1:KP:19:LYS:CE	2.04	0.88
3:AO:66:ILE:HG22	2:LS:54:THR:HG22	0.88	0.88
3:A2:197:VAL:HG11	5:DC:40:THR:HG22	1.54	0.88
1:b3:109:LEU:O	1:LD:105:GLU:CD	2.13	0.88
1:Q4:367:PRO:HG2	1:IL:375:TRP:CE3	2.09	0.88
1:Q6:26:ASN:O	1:AJ:100:ASP:CG	2.16	0.88
1:g6:54:LEU:HA	1:LP:118:THR:HG21	1.49	0.88
1:g6:367:PRO:CG	1:LP:375:TRP:CH2	2.57	0.88
2:n6:54:THR:N	1:AE:62:LEU:CD1	2.36	0.88
1:Q7:133:LEU:HB2	2:HG:11:MET:HG3	1.56	0.88
1:h7:261:ILE:HG21	1:i7:260:GLN:OE1	1.70	0.88
1:g8:28:ASP:O	1:IS:98:ASN:HB2	1.72	0.88
1:g8:367:PRO:CG	1:KS:375:TRP:CH2	2.57	0.88
1:i8:20:SER:CB	1:DD:47:GLU:H	1.87	0.88
3:A9:81:LEU:HD11	1:AK:153:LEU:HD11	1.55	0.88
3:AC:194:ASN:CG	5:EN:36:ALA:O	2.16	0.88
3:AC:209:MET:HG2	4:BN:250:ILE:HD13	1.56	0.88
1:AD:144:THR:HG22	3:AF:36:LEU:HD11	1.55	0.88
1:aE:71:ARG:HH22	1:AR:210:ASN:HD22	1.12	0.88
1:bE:85:TYR:O	1:CR:58:ILE:HG13	1.73	0.88
5:EH:140:ASP:CB	5:CH:139:LYS:CG	2.51	0.88
3:AI:210:SER:OG	4:BM:249:GLN:HA	1.73	0.88
1:AJ:145:LEU:HB2	3:AN:37:GLU:OE2	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:375:TRP:CZ3	1:LP:367:PRO:HG2	2.08	0.88
1:AK:170:GLU:OE2	1:KP:32:SER:HB3	1.74	0.88
1:CK:32:SER:O	1:hR:382:LYS:CG	2.22	0.88
2:XL:11:MET:HG3	1:YL:133:LEU:HB2	1.56	0.88
2:XL:54:THR:N	1:QR:62:LEU:CD1	2.36	0.88
1:BP:261:ILE:CG2	1:BP:265:ASP:OD2	2.21	0.88
1:RQ:64:ILE:HG13	2:VQ:53:PHE:CD2	2.09	0.88
1:YQ:81:PHE:HE2	1:AS:139:ARG:HD3	1.26	0.88
2:H1:54:THR:N	1:C6:62:LEU:CD1	2.36	0.88
2:P1:11:MET:HG3	1:Q1:133:LEU:HB2	1.56	0.88
2:P1:54:THR:N	1:IG:62:LEU:CD1	2.36	0.88
1:Q1:367:PRO:HG2	1:IG:375:TRP:CE3	2.09	0.88
1:R1:82:ILE:HG13	1:CJ:142:PHE:O	1.73	0.88
1:T1:44:THR:CA	1:BJ:17:SER:HB3	2.03	0.88
1:I4:62:LEU:CD1	2:H8:54:THR:N	2.36	0.88
1:R4:82:ILE:HG13	1:BS:142:PHE:O	1.73	0.88
3:A5:155:GLU:CD	1:AJ:139:ARG:HB2	1.98	0.88
4:B5:249:GLN:HA	3:AH:210:SER:OG	1.73	0.88
1:I6:375:TRP:CE3	1:CL:367:PRO:HG2	2.09	0.88
1:Y6:62:LEU:CD1	2:RE:54:THR:N	2.36	0.88
1:g6:58:ILE:HB	1:CP:55:PHE:CD2	2.09	0.88
1:I7:367:PRO:HG2	1:gR:375:TRP:CE3	2.09	0.88
1:Y7:80:ASP:OD2	1:KE:145:LEU:HD11	1.74	0.88
2:H8:11:MET:HG3	1:QL:133:LEU:HB2	1.56	0.88
1:g8:21:ALA:N	1:BS:47:GLU:HG3	1.77	0.88
1:i8:143:GLN:C	1:BD:82:ILE:HD13	1.98	0.88
5:E9:21:ILE:CG2	5:EA:55:LEU:CD2	2.38	0.88
5:E9:140:ASP:CB	5:C9:139:LYS:CG	2.52	0.88
1:KD:32:SER:HB3	1:IS:170:GLU:OE2	1.73	0.88
1:aE:62:LEU:CD1	2:HR:54:THR:N	2.36	0.88
2:hE:53:PHE:C	1:CR:62:LEU:CD1	2.44	0.88
5:FF:55:LEU:HD12	4:BO:32:PHE:CD2	2.06	0.88
1:CG:133:LEU:HB2	2:HR:11:MET:HG3	1.56	0.88
1:RG:64:ILE:HG13	2:VG:53:PHE:CD2	2.09	0.88
1:gG:58:ILE:HG13	1:AL:85:TYR:O	1.73	0.88
3:AI:209:MET:HG2	4:BM:250:ILE:HD13	1.56	0.88
1:AJ:377:HIS:CE1	1:JS:370:ASP:HB2	2.09	0.88
1:BJ:139:ARG:HD3	1:gL:81:PHE:HE2	1.26	0.88
1:DJ:84:GLN:CG	1:LP:140:PHE:C	2.46	0.88
1:KJ:30:SER:HB3	1:KP:98:ASN:HD21	1.14	0.88
1:KJ:39:TRP:O	1:AP:222:SER:OG	1.92	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:55:PHE:HB2	1:AP:120:LEU:HD12	1.56	0.88
6:LN:96:SER:O	2:MP:3:GLU:OE2	1.92	0.88
1:AP:59:ASN:OD1	1:AP:143:GLN:N	2.07	0.88
1:AQ:64:ILE:HG13	2:FQ:53:PHE:CD2	2.09	0.88
1:AR:64:ILE:HG13	2:FR:53:PHE:CD2	2.09	0.88
1:ZR:64:ILE:HG13	2:dR:53:PHE:CD2	2.09	0.88
1:C1:62:LEU:CD1	2:H6:54:THR:N	2.36	0.88
2:U1:11:MET:HE2	1:CJ:372:VAL:HG11	1.52	0.88
2:W1:54:THR:N	1:Q6:62:LEU:CD1	2.36	0.88
3:A2:107:LEU:N	2:MD:7:MET:HG3	1.89	0.88
4:B2:250:ILE:HD11	3:AF:208:LYS:O	1.69	0.88
1:I4:375:TRP:CE3	1:QL:367:PRO:HG2	2.09	0.88
1:R4:64:ILE:HG13	2:U4:53:PHE:CD2	2.09	0.88
1:g4:64:ILE:HG13	2:j4:53:PHE:CD2	2.09	0.88
5:D5:38:TYR:CB	3:AC:202:ASN:ND2	2.37	0.88
1:g6:33:TRP:N	1:LP:174:MET:CE	2.20	0.88
1:C7:367:PRO:O	1:LK:377:HIS:HE1	1.55	0.88
1:I7:375:TRP:CE3	1:CQ:367:PRO:HG2	2.09	0.88
1:Q7:62:LEU:CD1	2:XQ:53:PHE:C	2.44	0.88
1:Q7:128:LYS:HD3	1:RQ:99:MET:SD	2.12	0.88
2:c7:45:ILE:CG1	2:c7:46:HIS:N	2.36	0.88
1:Z8:64:ILE:HG13	2:d8:53:PHE:CD2	2.09	0.88
4:B9:249:GLN:HA	3:AB:210:SER:OG	1.73	0.88
5:E9:140:ASP:CG	5:C9:139:LYS:CE	2.37	0.88
1:AD:81:PHE:CG	1:KK:139:ARG:HB3	2.03	0.88
1:AD:123:ASN:HD22	1:KK:21:ALA:CB	1.74	0.88
1:AD:222:SER:OG	1:KK:39:TRP:O	1.92	0.88
1:DD:84:GLN:CG	1:KS:140:PHE:C	2.46	0.88
1:FE:44:THR:CA	1:BP:17:SER:HB3	2.03	0.88
1:SE:58:ILE:HG13	1:JQ:85:TYR:O	1.73	0.88
1:aE:133:LEU:HB2	2:XG:11:MET:HG3	1.55	0.88
1:aE:375:TRP:CE3	1:CG:367:PRO:HG2	2.09	0.88
2:hE:54:THR:N	1:CR:62:LEU:CD1	2.36	0.88
1:hG:64:ILE:HG13	2:lG:53:PHE:CD2	2.09	0.88
1:KJ:370:ASP:HB2	1:AP:377:HIS:CE1	2.08	0.88
1:LJ:28:ASP:CA	1:CS:304:GLN:NE2	2.36	0.88
1:AK:377:HIS:CE1	1:KP:370:ASP:HB2	2.08	0.88
1:CK:28:ASP:O	1:iR:98:ASN:CB	2.21	0.88
1:RL:99:MET:SD	1:QR:128:LYS:HD3	2.12	0.88
1:AP:62:LEU:HG	1:KP:88:GLU:CG	2.04	0.88
1:cQ:64:ILE:HG13	2:gQ:53:PHE:CD2	2.09	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q1:145:LEU:HD11	1:IG:80:ASP:OD2	1.74	0.88
1:A3:64:ILE:HG13	2:F3:53:PHE:CD2	2.09	0.88
1:A3:85:TYR:O	1:g7:58:ILE:HG13	1.73	0.88
2:e4:54:THR:HA	1:Y8:62:LEU:HD12	0.91	0.88
1:S6:20:SER:CB	1:CS:47:GLU:H	1.87	0.88
1:Y6:80:ASP:OD2	1:SE:145:LEU:HD11	1.74	0.88
1:J7:85:TYR:O	1:bQ:58:ILE:HG13	1.73	0.88
1:Q7:62:LEU:CD1	2:XQ:54:THR:N	2.36	0.88
1:g7:145:LEU:HD11	1:AE:80:ASP:OD2	1.74	0.88
3:A9:202:ASN:ND2	5:DH:38:TYR:CB	2.37	0.88
5:E9:36:ALA:O	3:AB:194:ASN:CG	2.16	0.88
5:EA:140:ASP:HB2	5:CA:139:LYS:CG	2.04	0.88
1:AD:62:LEU:CB	1:KD:88:GLU:CG	2.52	0.88
1:DD:121:TYR:CD1	1:KS:36:GLY:HA2	2.08	0.88
1:KD:45:MET:HB3	1:KS:14:VAL:C	1.85	0.88
1:KD:80:ASP:HB3	3:AF:65:ASN:CB	2.04	0.88
1:KD:368:GLU:CD	1:IS:130:LYS:HD2	1.99	0.88
1:LD:375:TRP:CD2	1:YG:367:PRO:CG	2.34	0.88
1:BE:382:LYS:CG	1:CP:32:SER:O	2.22	0.88
1:LE:64:ILE:HG13	2:PE:53:PHE:CD2	2.09	0.88
4:BF:249:GLN:HA	3:AO:210:SER:OG	1.73	0.88
3:AH:151:ASN:HB3	1:AP:135:ASN:CG	1.99	0.88
1:AJ:170:GLU:OE2	1:JS:32:SER:HB3	1.74	0.88
1:LJ:139:ARG:HB2	1:CS:81:PHE:HE2	1.32	0.88
1:LK:38:LYS:HG2	1:DP:119:LYS:HZ1	1.31	0.88
1:IL:46:PHE:HD1	1:ZR:85:TYR:HH	1.21	0.88
2:PL:54:THR:HA	1:YR:62:LEU:HD12	0.91	0.88
5:EM:140:ASP:CB	5:CM:139:LYS:CG	2.51	0.88
5:EM:140:ASP:HB2	5:CM:139:LYS:CG	2.04	0.88
1:AP:60:GLU:CG	1:KP:86:SER:HB2	2.04	0.88
1:R1:99:MET:SD	1:Q6:128:LYS:HD3	2.12	0.87
1:R1:382:LYS:CG	1:CJ:32:SER:O	2.22	0.87
1:Q3:62:LEU:HD12	2:P8:54:THR:HA	0.91	0.87
1:R3:64:ILE:HG13	2:V3:53:PHE:CD2	2.09	0.87
1:I4:80:ASP:OD2	1:QL:145:LEU:HD11	1.74	0.87
1:f4:62:LEU:HD12	2:fG:54:THR:HA	0.91	0.87
1:g4:382:LYS:CG	1:CD:32:SER:O	2.22	0.87
1:i4:367:PRO:CG	1:CD:375:TRP:CZ3	2.57	0.87
5:E5:140:ASP:HB2	5:C5:139:LYS:CG	2.04	0.87
1:Y6:62:LEU:HD12	2:RE:54:THR:HA	0.91	0.87
1:g6:14:VAL:HB	1:CP:45:MET:CE	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:31:LYS:HG3	1:LP:314:GLY:HA3	0.87	0.87
1:h6:64:ILE:HG13	2:l6:53:PHE:CD2	2.09	0.87
1:B7:144:THR:HA	1:BP:82:ILE:CD1	1.80	0.87
2:H7:11:MET:HG3	1:I7:133:LEU:HB2	1.56	0.87
1:I7:80:ASP:OD2	1:CQ:145:LEU:HD11	1.74	0.87
1:J7:64:ILE:HG13	2:N7:53:PHE:CD2	2.09	0.87
1:Y7:375:TRP:CE3	1:KE:367:PRO:HG2	2.09	0.87
1:g8:30:SER:O	1:KS:315:ALA:HA	1.74	0.87
3:AA:33:ASN:HD22	1:AP:55:PHE:H	1.22	0.87
3:AA:112:ILE:CG2	2:MK:13:THR:C	2.46	0.87
3:AA:114:PHE:HA	2:MK:8:ARG:CA	2.05	0.87
5:EC:140:ASP:CB	5:CC:139:LYS:CG	2.51	0.87
1:KD:144:THR:H	1:IS:82:ILE:HG12	1.34	0.87
5:DF:54:LYS:HD3	5:EM:25:ARG:NH1	1.87	0.87
1:CG:128:LYS:HD3	1:ZL:99:MET:SD	2.12	0.87
5:EI:140:ASP:HB2	5:CI:139:LYS:CG	2.04	0.87
2:FJ:4:GLY:HA3	1:LP:153:LEU:HD13	1.56	0.87
1:AK:59:ASN:OD1	1:AK:143:GLN:N	2.07	0.87
1:CL:80:ASP:OD2	1:YR:145:LEU:HD11	1.74	0.87
1:AL:64:ILE:HG13	2:FL:53:PHE:CD2	2.09	0.87
1:IL:62:LEU:HD12	2:fR:54:THR:HA	0.90	0.87
1:QL:62:LEU:CD1	2:XR:54:THR:N	2.36	0.87
1:RL:64:ILE:HG13	2:VL:53:PHE:CD2	2.09	0.87
1:AP:62:LEU:CB	1:KP:88:GLU:CG	2.52	0.87
1:DP:153:LEU:HD21	2:mR:4:GLY:HA3	1.56	0.87
1:JQ:64:ILE:HG13	2:NQ:53:PHE:CD2	2.09	0.87
2:UQ:45:ILE:CG1	2:UQ:46:HIS:N	2.36	0.87
1:Q1:62:LEU:CD1	2:X6:54:THR:N	2.36	0.87
1:S1:105:GLU:HB2	1:LJ:109:LEU:HD23	0.90	0.87
2:W1:4:GLY:HA3	1:CS:153:LEU:HD21	1.56	0.87
1:X1:145:LEU:HD11	1:I8:80:ASP:OD2	1.74	0.87
2:e1:11:MET:HG3	1:CL:133:LEU:HB2	1.56	0.87
2:m1:54:THR:N	1:CQ:62:LEU:CD1	2.36	0.87
1:I3:375:TRP:CE3	1:I4:367:PRO:HG2	2.09	0.87
1:Q3:139:ARG:HD2	1:X4:81:PHE:HD2	1.25	0.87
1:S4:98:ASN:CB	1:BS:28:ASP:O	2.21	0.87
2:U4:11:MET:HG2	1:BS:133:LEU:HD22	1.54	0.87
2:e4:54:THR:N	1:Y8:62:LEU:CD1	2.36	0.87
1:f4:62:LEU:CD1	2:fG:54:THR:N	2.36	0.87
5:E5:140:ASP:HB3	5:C5:139:LYS:HE2	0.91	0.87
1:h6:99:MET:SD	1:AE:128:LYS:HD3	2.12	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I7:62:LEU:CD1	2:iQ:54:THR:N	2.36	0.87
1:Q7:145:LEU:HD11	1:YL:80:ASP:OD2	1.74	0.87
1:Q7:375:TRP:CE3	1:QR:367:PRO:HG2	2.09	0.87
5:DA:38:TYR:CB	3:AB:202:ASN:ND2	2.37	0.87
5:DB:40:THR:HG22	3:AO:197:VAL:HG11	1.54	0.87
1:AD:140:PHE:HD1	3:AF:29:ARG:NE	1.71	0.87
1:CD:55:PHE:CD2	1:YG:58:ILE:HB	2.09	0.87
2:FD:2:TYR:CD2	1:KS:153:LEU:CD1	2.56	0.87
1:BE:116:MET:HE2	1:CP:54:LEU:HD22	1.56	0.87
1:AG:64:ILE:HG13	2:FG:53:PHE:CD2	2.09	0.87
3:AI:33:ASN:ND2	1:IS:56:PRO:O	2.08	0.87
1:KJ:99:MET:CE	1:JS:136:ASN:HD21	1.88	0.87
1:LJ:150:ASN:ND2	2:ES:2:TYR:O	2.08	0.87
1:AK:120:LEU:HD12	1:KP:55:PHE:HB2	1.56	0.87
1:LK:33:TRP:HH2	1:DP:173:ALA:HB1	1.11	0.87
1:LK:153:LEU:HD13	2:FP:4:GLY:HA3	1.56	0.87
1:YL:367:PRO:HG2	1:QR:375:TRP:CE3	2.09	0.87
3:AM:109:LYS:N	2:LS:19:ARG:NH2	2.10	0.87
5:EO:140:ASP:HB2	5:CO:139:LYS:CG	2.04	0.87
1:SQ:259:PHE:O	1:SQ:260:GLN:CB	2.23	0.87
1:IS:62:LEU:CB	1:JS:88:GLU:CG	2.52	0.87
1:A1:64:ILE:HG13	2:F1:53:PHE:CD2	2.09	0.87
1:B1:259:PHE:O	1:B1:260:GLN:CB	2.23	0.87
1:R1:64:ILE:HG13	2:U1:53:PHE:CD2	2.09	0.87
1:f1:62:LEU:HD12	2:HQ:54:THR:HA	0.90	0.87
1:g1:85:TYR:O	1:CQ:58:ILE:HG13	1.73	0.87
2:m1:54:THR:HA	1:CQ:62:LEU:HD12	0.91	0.87
1:I3:62:LEU:HD12	2:X8:54:THR:HA	0.91	0.87
1:Q3:62:LEU:CD1	2:P8:54:THR:N	2.36	0.87
1:C4:133:LEU:HB2	2:fL:11:MET:HG3	1.56	0.87
1:R4:105:GLU:HB2	1:BD:109:LEU:HD13	1.57	0.87
1:Q6:367:PRO:CG	1:LJ:375:TRP:CD2	2.34	0.87
2:n6:54:THR:HA	1:AE:62:LEU:HD12	0.91	0.87
1:Y7:145:LEU:HD11	1:QQ:80:ASP:OD2	1.74	0.87
1:Q8:80:ASP:OD2	1:IG:145:LEU:HD11	1.74	0.87
3:AA:33:ASN:HB3	1:AP:54:LEU:CB	2.04	0.87
3:AA:210:SER:OG	4:BH:249:GLN:HA	1.73	0.87
3:AB:151:ASN:H	1:AD:145:LEU:HD12	0.74	0.87
2:FD:4:GLY:HA3	1:KS:153:LEU:HD13	1.56	0.87
1:BE:64:ILE:HG13	2:HE:53:PHE:CD2	2.09	0.87
1:AJ:60:GLU:HG2	1:KJ:87:GLU:H	1.35	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:367:PRO:HG2	1:DP:375:TRP:CZ3	2.08	0.87
2:PL:54:THR:N	1:YR:62:LEU:CD1	2.36	0.87
1:YL:145:LEU:HD11	1:QR:80:ASP:OD2	1.74	0.87
3:AO:29:ARG:HG3	1:IS:136:ASN:CB	2.03	0.87
1:BP:109:LEU:HD13	1:hR:105:GLU:HB2	1.57	0.87
1:CQ:80:ASP:OD2	1:gR:145:LEU:HD11	1.74	0.87
2:aQ:1:MET:HE3	2:DS:54:THR:HB	1.55	0.87
1:R1:116:MET:HE2	1:CJ:54:LEU:HD22	1.56	0.87
1:T1:30:SER:N	1:CJ:315:ALA:HB1	1.89	0.87
3:A2:33:ASN:CG	1:AK:58:ILE:HD12	1.77	0.87
3:A2:209:MET:HG2	4:BA:250:ILE:HD13	1.56	0.87
1:I3:367:PRO:HG2	1:QL:375:TRP:CE3	2.09	0.87
1:Q4:133:LEU:HB2	2:fR:11:MET:HG3	1.56	0.87
1:R4:116:MET:HE2	1:BS:54:LEU:HD22	1.56	0.87
3:A5:149:GLN:NE2	1:AJ:149:THR:HG21	1.89	0.87
1:A6:64:ILE:HG13	2:F6:53:PHE:CD2	2.09	0.87
1:B6:259:PHE:O	1:B6:260:GLN:CB	2.23	0.87
1:I6:145:LEU:HD11	1:YR:80:ASP:OD2	1.74	0.87
1:Y6:58:ILE:HG13	1:LE:85:TYR:O	1.73	0.87
1:Y6:128:LYS:HD3	1:LE:99:MET:SD	2.12	0.87
1:Z6:64:ILE:HG13	2:d6:53:PHE:CD2	2.09	0.87
1:h6:85:TYR:O	1:AE:58:ILE:HG13	1.73	0.87
1:i6:20:SER:CB	1:DJ:47:GLU:H	1.87	0.87
1:C7:30:SER:C	1:LK:315:ALA:CA	2.46	0.87
1:B7:20:SER:HB2	1:DP:47:GLU:HB3	1.32	0.87
1:Y7:367:PRO:HG2	1:QQ:375:TRP:CE3	2.09	0.87
1:Q8:375:TRP:CE3	1:IG:367:PRO:HG2	2.09	0.87
1:g8:28:ASP:N	1:IS:100:ASP:OD2	2.07	0.87
1:g8:58:ILE:HB	1:BS:55:PHE:CD2	2.09	0.87
3:A9:154:ILE:N	1:AK:145:LEU:HD21	1.38	0.87
4:B9:250:ILE:HD13	3:AB:209:MET:HG2	1.56	0.87
5:EA:140:ASP:HB3	5:CA:139:LYS:HE2	0.91	0.87
5:DB:38:TYR:CB	3:AO:202:ASN:ND2	2.37	0.87
1:AD:60:GLU:HG2	1:KD:87:GLU:H	1.35	0.87
1:AD:62:LEU:HG	1:KD:88:GLU:CG	2.04	0.87
2:FD:2:TYR:O	1:KS:150:ASN:ND2	2.08	0.87
1:KD:13:LEU:O	1:KS:45:MET:HE2	1.72	0.87
1:KD:19:LYS:CE	1:KS:45:MET:HG3	2.04	0.87
1:LD:315:ALA:CB	1:YG:29:TYR:C	2.48	0.87
5:DF:38:TYR:CB	3:AI:202:ASN:ND2	2.37	0.87
2:nG:54:THR:N	1:CL:62:LEU:CD1	2.36	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:130:LYS:HD2	1:JS:368:GLU:CD	1.99	0.87
1:AJ:361:LYS:CE	1:JS:365:HIS:NE2	2.32	0.87
1:LJ:36:GLY:CA	1:CS:121:TYR:CE1	2.58	0.87
1:LJ:153:LEU:CD1	2:ES:2:TYR:CD2	2.56	0.87
5:DM:35:ARG:NH2	1:JS:111:ARG:HH12	1.71	0.87
1:Q1:375:TRP:CE3	1:Q8:367:PRO:HG2	2.09	0.87
1:R1:259:PHE:CE1	1:Q6:259:PHE:CZ	2.63	0.87
5:E2:140:ASP:HB2	5:C2:139:LYS:CG	2.04	0.87
1:I3:80:ASP:OD2	1:I4:145:LEU:HD11	1.74	0.87
2:P3:54:THR:HA	1:Q8:62:LEU:HD12	0.91	0.87
2:a3:1:MET:HE3	2:EK:54:THR:HB	1.55	0.87
1:C4:58:ILE:HG13	1:RG:85:TYR:O	1.73	0.87
1:J4:64:ILE:HG13	2:N4:53:PHE:CD2	2.09	0.87
1:Q4:375:TRP:CE3	1:IQ:367:PRO:HG2	2.09	0.87
1:R4:259:PHE:CE1	1:g8:259:PHE:CZ	2.63	0.87
2:W4:4:GLY:HA3	1:DD:153:LEU:HD21	1.56	0.87
1:X4:367:PRO:HG2	1:CR:375:TRP:CE3	2.09	0.87
3:A5:202:ASN:ND2	5:DM:38:TYR:CB	2.37	0.87
5:E5:36:ALA:O	3:AH:194:ASN:CG	2.16	0.87
1:g6:259:PHE:CZ	1:BE:259:PHE:CE1	2.63	0.87
1:R7:259:PHE:CE1	1:QQ:259:PHE:CZ	2.63	0.87
1:Z7:64:ILE:HG13	2:d7:53:PHE:CD2	2.09	0.87
3:A9:66:ILE:HD13	1:AK:153:LEU:HD22	1.53	0.87
5:D9:38:TYR:CB	3:AF:202:ASN:ND2	2.37	0.87
5:D9:40:THR:HG22	3:AF:197:VAL:HG11	1.54	0.87
1:CD:143:GLN:HE21	1:YG:57:LYS:CB	1.86	0.87
1:KD:21:ALA:HB2	1:IS:123:ASN:HD22	1.31	0.87
1:LD:261:ILE:CD1	1:LD:265:ASP:OD2	2.21	0.87
5:NF:231:ASN:OD1	5:CM:265:LEU:CD2	2.21	0.87
1:JG:64:ILE:HG13	2:NG:53:PHE:CD2	2.09	0.87
1:QG:133:LEU:HB2	2:HQ:11:MET:HG3	1.56	0.87
1:LJ:367:PRO:HG2	1:CS:375:TRP:CZ3	2.08	0.87
1:LJ:369:PHE:CE2	1:AS:105:GLU:O	2.26	0.87
1:AK:62:LEU:CB	1:KK:88:GLU:CG	2.52	0.87
1:CK:315:ALA:HB1	1:jR:30:SER:N	1.89	0.87
1:CL:375:TRP:CE3	1:YR:367:PRO:HG2	2.09	0.87
1:RL:259:PHE:CE1	1:QR:259:PHE:CZ	2.63	0.87
1:IS:59:ASN:OD1	1:IS:143:GLN:N	2.07	0.87
1:J1:85:TYR:O	1:IG:58:ILE:HG13	1.73	0.87
2:W1:9:SER:HB2	1:CS:363:PRO:HG2	1.56	0.87
3:A2:202:ASN:ND2	5:DC:38:TYR:CB	2.37	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D2:38:TYR:CB	3:AM:202:ASN:ND2	2.37	0.87
1:C3:367:PRO:HG2	1:QG:375:TRP:CE3	2.09	0.87
1:A3:259:PHE:CE1	1:g7:259:PHE:CZ	2.63	0.87
2:H3:11:MET:HG3	1:C8:133:LEU:HB2	1.56	0.87
1:I3:145:LEU:HD11	1:QL:80:ASP:OD2	1.74	0.87
2:M3:45:ILE:CG1	2:M3:46:HIS:N	2.36	0.87
1:C4:259:PHE:CZ	1:RG:259:PHE:CE1	2.63	0.87
1:Y4:259:PHE:CE1	1:Y8:259:PHE:CZ	2.63	0.87
1:f4:259:PHE:CZ	1:ZG:259:PHE:CE1	2.63	0.87
3:A5:209:MET:HG2	4:BO:250:ILE:HD13	1.55	0.87
5:E5:140:ASP:CG	5:C5:139:LYS:CE	2.37	0.87
1:Z6:259:PHE:CE1	1:KE:259:PHE:CZ	2.63	0.87
1:g6:29:TYR:C	1:LP:315:ALA:CB	2.48	0.87
1:g6:208:LEU:HD13	1:g6:391:ILE:HD13	1.57	0.87
1:i6:143:GLN:C	1:BJ:82:ILE:HD13	1.98	0.87
2:k6:45:ILE:CG1	2:k6:46:HIS:N	2.36	0.87
1:A7:85:TYR:HH	1:gR:46:PHE:HD1	1.22	0.87
1:g8:31:LYS:HG3	1:KS:314:GLY:HA3	0.87	0.87
5:C9:265:LEU:CD2	5:NA:231:ASN:OD1	2.20	0.87
5:EB:140:ASP:HB2	5:CB:139:LYS:CG	2.04	0.87
1:DD:126:VAL:HG11	1:KS:25:PHE:CE1	2.06	0.87
1:KD:39:TRP:O	1:IS:222:SER:OG	1.92	0.87
1:KE:208:LEU:HD13	1:KE:391:ILE:HD13	1.57	0.87
2:OE:45:ILE:CG1	2:OE:46:HIS:N	2.36	0.87
1:SE:259:PHE:CZ	1:JQ:259:PHE:CE1	2.63	0.87
1:KJ:32:SER:HB3	1:AP:170:GLU:OE2	1.74	0.87
1:KJ:366:ASN:OD1	1:KP:108:MET:CB	2.11	0.87
1:LJ:153:LEU:HD13	2:ES:4:GLY:HA3	1.56	0.87
1:LK:36:GLY:HA2	1:DP:121:TYR:CD1	2.08	0.87
1:LK:369:PHE:CE2	1:BP:105:GLU:O	2.26	0.87
1:JL:85:TYR:O	1:YR:58:ILE:HG13	1.73	0.87
3:AO:29:ARG:HD3	1:IS:136:ASN:HD22	1.38	0.87
1:LP:261:ILE:CD1	1:LP:265:ASP:OD2	2.21	0.87
1:JR:64:ILE:HG13	2:NR:53:PHE:CD2	2.09	0.87
1:IS:49:PHE:O	1:IS:50:VAL:C	2.16	0.87
1:I1:133:LEU:HB2	2:PQ:11:MET:HG3	1.56	0.87
1:Q1:80:ASP:OD2	1:Q8:145:LEU:HD11	1.74	0.87
1:R1:85:TYR:O	1:Q6:58:ILE:HG13	1.73	0.87
1:I3:62:LEU:CD1	2:X8:54:THR:N	2.36	0.87
1:Q4:145:LEU:HD11	1:IL:80:ASP:OD2	1.74	0.87
1:Q4:259:PHE:CZ	1:h8:259:PHE:CE1	2.63	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:194:ASN:HD21	4:BO:3:ARG:CB	1.87	0.87
1:g6:375:TRP:CE3	1:DJ:367:PRO:HG2	2.10	0.87
1:C7:31:LYS:HG3	1:LK:314:GLY:HA3	0.88	0.87
1:h7:64:ILE:HG13	2:l7:53:PHE:CD2	2.09	0.87
1:C8:375:TRP:CE3	1:AE:367:PRO:HG2	2.09	0.87
3:A9:210:SER:OG	4:BC:249:GLN:HA	1.73	0.87
3:AA:202:ASN:ND2	5:DN:38:TYR:CB	2.37	0.87
1:LD:45:MET:HG3	1:KK:19:LYS:CE	2.04	0.87
1:LD:367:PRO:HG2	1:DK:375:TRP:CZ3	2.08	0.87
1:aE:80:ASP:OD2	1:CG:145:LEU:HD11	1.74	0.87
1:CG:259:PHE:CZ	1:ZL:259:PHE:CE1	2.63	0.87
2:FJ:2:TYR:O	1:LP:150:ASN:ND2	2.08	0.87
1:KJ:30:SER:C	1:AP:315:ALA:CA	2.46	0.87
1:AK:315:ALA:CA	1:KP:30:SER:C	2.46	0.87
3:AM:114:PHE:HE1	2:LS:13:THR:N	1.70	0.87
1:RR:64:ILE:HG13	2:VR:53:PHE:CD2	2.09	0.87
1:I1:375:TRP:CE3	1:Y6:367:PRO:HG2	2.09	0.87
1:f1:80:ASP:OD2	1:QG:145:LEU:HD11	1.74	0.87
1:Q3:80:ASP:OD2	1:CR:145:LEU:HD11	1.74	0.87
1:C4:145:LEU:HD11	1:CG:80:ASP:OD2	1.74	0.87
1:A4:259:PHE:CE1	1:QG:259:PHE:CZ	2.63	0.87
1:I4:58:ILE:HG13	1:A8:85:TYR:O	1.73	0.87
1:R4:85:TYR:O	1:g8:58:ILE:HG13	1.73	0.87
1:T4:53:TYR:CD1	1:BS:222:SER:OG	2.28	0.87
4:B5:250:ILE:HD13	3:AH:209:MET:HG2	1.56	0.87
5:E5:140:ASP:CB	5:C5:139:LYS:CG	2.52	0.87
1:R6:64:ILE:HG13	2:V6:53:PHE:CD2	2.09	0.87
1:C7:28:ASP:O	1:AK:98:ASN:HB2	1.72	0.87
1:A7:259:PHE:CE1	1:gR:259:PHE:CZ	2.63	0.87
1:Q7:80:ASP:OD2	1:QR:145:LEU:HD11	1.74	0.87
1:R7:64:ILE:HG13	2:V7:53:PHE:CD2	2.09	0.87
1:I8:45:MET:SD	1:KR:13:LEU:HD12	2.15	0.87
1:g8:222:SER:OG	1:DD:53:TYR:CD1	2.26	0.87
1:i8:14:VAL:CG2	1:DD:14:VAL:HG11	2.05	0.87
3:AC:114:PHE:CD1	2:MP:51:GLN:HB3	2.08	0.87
3:AC:209:MET:HG2	4:BN:250:ILE:CD1	2.05	0.87
1:DD:116:MET:SD	1:KS:54:LEU:CD1	2.63	0.87
1:KD:80:ASP:CG	3:AF:65:ASN:CG	2.42	0.87
1:KD:261:ILE:CG2	1:KD:265:ASP:CG	2.48	0.87
1:LD:33:TRP:NE1	1:DK:174:MET:HA	1.83	0.87
1:LD:150:ASN:ND2	2:FK:2:TYR:O	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TE:64:ILE:HG13	2:XE:53:PHE:CD2	2.09	0.87
5:CH:265:LEU:CD2	5:NN:231:ASN:OD1	2.20	0.87
5:EI:140:ASP:CB	5:CI:139:LYS:CG	2.52	0.87
1:KJ:27:HIS:O	1:KP:100:ASP:HB2	1.75	0.87
1:LJ:54:LEU:CD1	1:CS:116:MET:SD	2.63	0.87
1:CK:375:TRP:CZ3	1:jR:367:PRO:CG	2.57	0.87
1:KK:99:MET:CE	1:KP:136:ASN:HD21	1.88	0.87
1:LK:150:ASN:ND2	2:FP:2:TYR:O	2.08	0.87
1:BR:259:PHE:O	1:BR:260:GLN:CB	2.23	0.87
1:T1:367:PRO:CG	1:CJ:375:TRP:CZ3	2.57	0.87
1:Y1:259:PHE:CE1	1:I6:259:PHE:CZ	2.63	0.87
1:f1:259:PHE:CZ	1:AQ:259:PHE:CE1	2.63	0.87
3:A2:209:MET:HG2	4:BA:250:ILE:CD1	2.05	0.87
1:C3:62:LEU:HD12	2:n7:54:THR:HA	0.91	0.87
2:P3:54:THR:N	1:Q8:62:LEU:CD1	2.36	0.87
1:Q3:208:LEU:HD13	1:Q3:391:ILE:HD13	1.57	0.87
1:C4:80:ASP:OD2	1:aE:145:LEU:HD11	1.74	0.87
1:g6:14:VAL:N	1:CP:45:MET:HE3	1.38	0.87
1:A7:64:ILE:HG13	2:F7:53:PHE:CD2	2.09	0.87
1:Q7:367:PRO:HG2	1:YL:375:TRP:CE3	2.09	0.87
1:Y7:62:LEU:HD12	2:PR:54:THR:HA	0.91	0.87
1:R8:64:ILE:HG13	2:V8:53:PHE:CD2	2.09	0.87
1:Y8:375:TRP:CE3	1:bQ:367:PRO:HG2	2.09	0.87
5:EC:140:ASP:HB2	5:CC:139:LYS:CG	2.04	0.87
1:AD:170:GLU:OE2	1:KK:32:SER:HB3	1.73	0.87
1:DD:121:TYR:CE1	1:KS:36:GLY:CA	2.58	0.87
1:DD:121:TYR:HD1	1:KS:36:GLY:HA2	1.40	0.87
1:LD:36:GLY:CA	1:DK:121:TYR:CE1	2.58	0.87
1:LD:47:GLU:CG	1:KK:20:SER:CB	2.01	0.87
1:LD:375:TRP:CH2	1:YG:367:PRO:CG	2.57	0.87
1:KE:375:TRP:CE3	1:QQ:367:PRO:HG2	2.09	0.87
2:ZE:54:THR:HA	1:IQ:62:LEU:HD12	0.91	0.87
1:YG:375:TRP:CE3	1:DK:367:PRO:HG2	2.10	0.87
1:BJ:105:GLU:O	1:LP:369:PHE:CE2	2.26	0.87
1:DJ:116:MET:SD	1:LP:54:LEU:CD1	2.63	0.87
1:KJ:100:ASP:HB2	1:JS:27:HIS:O	1.75	0.87
1:LJ:45:MET:HE2	1:JS:13:LEU:O	1.72	0.87
1:AK:222:SER:OG	1:KP:39:TRP:O	1.92	0.87
1:CK:142:PHE:O	1:hR:82:ILE:HG13	1.73	0.87
1:LK:47:GLU:HB2	1:KP:22:LEU:CD2	2.03	0.87
1:IL:259:PHE:CZ	1:ZR:259:PHE:CE1	2.63	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RL:85:TYR:O	1:QR:58:ILE:HG13	1.73	0.87
1:X1:133:LEU:HB2	2:X3:11:MET:HG3	1.56	0.86
1:Y1:64:ILE:HG13	2:c1:53:PHE:CD2	2.09	0.86
4:B2:33:TYR:HE1	5:EA:57:GLU:HB3	1.34	0.86
5:E2:140:ASP:CB	5:C2:139:LYS:CG	2.51	0.86
5:N2:231:ASN:OD1	5:CB:265:LEU:CD2	2.21	0.86
1:C3:145:LEU:HD11	1:QG:80:ASP:OD2	1.74	0.86
1:I3:133:LEU:HB2	2:XR:11:MET:HG3	1.56	0.86
1:C4:367:PRO:HG2	1:CG:375:TRP:CE3	2.09	0.86
1:J4:259:PHE:CE1	1:C8:259:PHE:CZ	2.63	0.86
1:Q4:80:ASP:OD2	1:IQ:145:LEU:HD11	1.74	0.86
1:T4:30:SER:N	1:BS:315:ALA:HB1	1.89	0.86
1:f4:80:ASP:OD2	1:gG:145:LEU:HD11	1.74	0.86
1:i4:51:ASN:ND2	1:CD:116:MET:CE	2.34	0.86
3:A5:114:PHE:CZ	2:MJ:21:ASN:C	2.53	0.86
1:Q6:30:SER:C	1:LJ:315:ALA:CA	2.46	0.86
2:X6:11:MET:HG3	1:Q8:133:LEU:HB2	1.56	0.86
1:B7:143:GLN:C	1:BP:82:ILE:HD13	1.98	0.86
1:Y7:208:LEU:HD13	1:Y7:391:ILE:HD13	1.57	0.86
1:g7:375:TRP:CE3	1:C8:367:PRO:HG2	2.09	0.86
1:I8:145:LEU:HD11	1:IR:80:ASP:OD2	1.74	0.86
1:J8:64:ILE:HG13	2:N8:53:PHE:CD2	2.09	0.86
3:AA:114:PHE:CD1	2:MK:8:ARG:HB2	2.06	0.86
5:DA:40:THR:HG22	3:AB:197:VAL:HG11	1.54	0.86
1:KD:27:HIS:O	1:JS:100:ASP:HB2	1.75	0.86
1:LD:35:PHE:HE1	1:DK:384:ILE:HD13	1.38	0.86
1:aE:259:PHE:CZ	1:AR:259:PHE:CE1	2.63	0.86
1:bE:64:ILE:HG13	2:fE:53:PHE:CD2	2.09	0.86
3:AI:209:MET:HG2	4:BM:250:ILE:CD1	2.05	0.86
1:LJ:25:PHE:CE1	1:CS:126:VAL:HG13	1.91	0.86
1:AK:62:LEU:HG	1:KK:88:GLU:CG	2.04	0.86
1:CL:208:LEU:HD13	1:CL:391:ILE:HD13	1.57	0.86
1:ZL:64:ILE:HG13	2:dL:53:PHE:CD2	2.09	0.86
1:CR:208:LEU:HD13	1:CR:391:ILE:HD13	1.57	0.86
1:I1:259:PHE:CZ	1:JG:259:PHE:CE1	2.63	0.86
1:K1:13:LEU:HD12	1:Y6:45:MET:SD	2.15	0.86
1:Z1:13:LEU:HD12	1:IR:45:MET:SD	2.15	0.86
1:J3:64:ILE:HG13	2:N3:53:PHE:CD2	2.09	0.86
1:Q3:145:LEU:HD11	1:X4:80:ASP:OD2	1.74	0.86
2:c6:45:ILE:CG1	2:c6:46:HIS:N	2.36	0.86
1:C7:58:ILE:HB	1:CK:55:PHE:CD2	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I7:145:LEU:HD11	1:gR:80:ASP:OD2	1.74	0.86
1:I7:208:LEU:HD13	1:I7:391:ILE:HD13	1.57	0.86
1:B8:13:LEU:HD12	1:AE:45:MET:SD	2.15	0.86
1:Q8:208:LEU:HD13	1:Q8:391:ILE:HD13	1.57	0.86
1:Y8:80:ASP:OD2	1:bQ:145:LEU:HD11	1.74	0.86
3:A9:197:VAL:HG11	5:DH:40:THR:HG22	1.54	0.86
3:AA:107:LEU:CG	2:MK:19:ARG:NH2	2.35	0.86
1:AD:62:LEU:HB2	1:KD:88:GLU:HB3	0.87	0.86
2:JE:4:GLY:HA3	1:DJ:153:LEU:HD21	1.56	0.86
1:AG:259:PHE:CE1	1:YL:259:PHE:CZ	2.63	0.86
1:KJ:28:ASP:HB2	1:AP:304:GLN:NE2	1.90	0.86
1:KK:105:GLU:C	1:DP:109:LEU:CD1	2.48	0.86
5:DM:30:PRO:CG	1:IS:140:PHE:CD2	2.58	0.86
1:KP:261:ILE:CG2	1:KP:265:ASP:CG	2.48	0.86
1:KR:259:PHE:O	1:KR:260:GLN:CB	2.23	0.86
1:I1:367:PRO:HG2	1:SE:375:TRP:CE3	2.09	0.86
1:Q1:259:PHE:CZ	1:R6:259:PHE:CE1	2.63	0.86
5:D2:38:TYR:HB3	3:AM:202:ASN:HD21	1.40	0.86
1:I3:208:LEU:HD13	1:I3:391:ILE:HD13	1.57	0.86
2:d3:1:MET:HE3	2:ED:54:THR:HB	1.55	0.86
1:f4:375:TRP:CE3	1:gG:367:PRO:HG2	2.09	0.86
1:C6:367:PRO:HG2	1:gG:375:TRP:CE3	2.09	0.86
1:S6:47:GLU:HB3	1:CS:20:SER:HB2	1.55	0.86
1:g6:30:SER:O	1:LP:315:ALA:HA	1.74	0.86
1:g6:32:SER:O	1:LP:382:LYS:HG2	1.76	0.86
1:C7:28:ASP:N	1:AK:100:ASP:OD2	2.07	0.86
1:C7:29:TYR:C	1:LK:315:ALA:CB	2.48	0.86
1:B7:47:GLU:HB3	1:DP:20:SER:HB2	1.55	0.86
3:AC:7:GLY:N	5:DN:24:THR:HA	1.60	0.86
1:AD:54:LEU:HA	3:AM:29:ARG:HH12	1.31	0.86
1:AD:145:LEU:HD22	3:AF:33:ASN:HB2	1.56	0.86
1:DD:126:VAL:HG13	1:KS:25:PHE:CE1	1.91	0.86
2:FD:2:TYR:CE2	1:KS:153:LEU:CD1	2.59	0.86
1:IG:208:LEU:HD13	1:IG:391:ILE:HD13	1.57	0.86
1:aG:143:GLN:C	1:BK:82:ILE:HD13	1.98	0.86
1:DJ:126:VAL:HG11	1:LP:25:PHE:CE1	2.06	0.86
1:LK:55:PHE:HE2	1:KP:58:ILE:CB	1.85	0.86
1:LK:109:LEU:CD2	1:iR:105:GLU:HB3	1.90	0.86
1:JL:64:ILE:HG13	2:NL:53:PHE:CD2	2.09	0.86
1:QL:208:LEU:HD13	1:QL:391:ILE:HD13	1.57	0.86
3:AN:106:ARG:HA	2:MP:7:MET:CE	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bQ:208:LEU:HD13	1:bQ:391:ILE:HD13	1.57	0.86
1:IS:62:LEU:HG	1:JS:88:GLU:CG	2.04	0.86
1:C1:367:PRO:HG2	1:bQ:375:TRP:CE3	2.09	0.86
1:J1:259:PHE:CE1	1:IG:259:PHE:CZ	2.63	0.86
1:g1:64:ILE:HG13	2:k1:53:PHE:CD2	2.09	0.86
3:A2:107:LEU:O	2:MD:7:MET:CE	2.23	0.86
1:I4:208:LEU:HD13	1:I4:391:ILE:HD13	1.57	0.86
1:I4:259:PHE:CZ	1:A8:259:PHE:CE1	2.63	0.86
1:Z4:259:PHE:O	1:Z4:260:GLN:CB	2.23	0.86
3:A5:149:GLN:CD	1:AJ:145:LEU:C	2.25	0.86
2:U7:45:ILE:CG1	2:U7:46:HIS:N	2.36	0.86
1:g8:32:SER:O	1:KS:382:LYS:HG2	1.76	0.86
3:AB:116:VAL:CA	2:MD:19:ARG:CG	2.46	0.86
1:AD:60:GLU:CG	1:KD:86:SER:HB2	2.04	0.86
1:KD:45:MET:CG	1:KS:14:VAL:O	2.10	0.86
1:TE:259:PHE:CE1	1:IQ:259:PHE:CZ	2.63	0.86
1:ZG:64:ILE:HG13	2:dG:53:PHE:CD2	2.09	0.86
1:AJ:222:SER:OG	1:JS:39:TRP:O	1.92	0.86
1:KJ:19:LYS:CE	1:LP:45:MET:HG3	2.04	0.86
1:LJ:153:LEU:CD1	2:ES:2:TYR:CE2	2.59	0.86
1:AK:130:LYS:HD2	1:KP:368:GLU:CD	1.99	0.86
1:QL:259:PHE:CZ	1:RR:259:PHE:CE1	2.63	0.86
5:EM:140:ASP:CA	5:CM:139:LYS:CB	2.00	0.86
1:AS:261:ILE:HG22	1:AS:265:ASP:OD1	1.62	0.86
1:B1:13:LEU:HD12	1:Y8:45:MET:SD	2.15	0.86
1:Q1:208:LEU:HD13	1:Q1:391:ILE:HD13	1.57	0.86
4:B2:250:ILE:HD13	3:AF:209:MET:HG2	1.56	0.86
1:C3:259:PHE:CZ	1:h7:259:PHE:CE1	2.63	0.86
1:Q3:133:LEU:HB2	2:f8:11:MET:HG3	1.56	0.86
1:C4:208:LEU:HD13	1:C4:391:ILE:HD13	1.57	0.86
1:T4:367:PRO:CG	1:BS:375:TRP:CZ3	2.57	0.86
1:X4:145:LEU:HD11	1:CR:80:ASP:OD2	1.74	0.86
1:Y4:64:ILE:HG13	2:c4:53:PHE:CD2	2.09	0.86
1:g4:105:GLU:C	1:BK:109:LEU:HD12	2.01	0.86
1:h4:105:GLU:HB3	1:LD:109:LEU:CD2	1.90	0.86
1:I6:80:ASP:OD2	1:CL:145:LEU:HD11	1.74	0.86
1:Q6:28:ASP:N	1:AJ:100:ASP:OD2	2.07	0.86
1:g6:143:GLN:O	1:LP:82:ILE:CG1	2.20	0.86
1:i6:259:PHE:O	1:i6:260:GLN:CB	2.23	0.86
1:C7:57:LYS:CB	1:CK:143:GLN:HE21	1.86	0.86
1:g8:29:TYR:C	1:KS:315:ALA:CB	2.48	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:375:TRP:CE3	1:DD:367:PRO:HG2	2.10	0.86
5:DA:38:TYR:HB3	3:AB:202:ASN:HD21	1.40	0.86
5:FB:55:LEU:HD12	4:BM:32:PHE:CD2	2.06	0.86
5:EF:55:LEU:CD2	5:EM:21:ILE:CG2	2.38	0.86
1:aG:20:SER:CB	1:DK:47:GLU:H	1.87	0.86
1:aG:259:PHE:O	1:aG:260:GLN:CB	2.23	0.86
1:gG:208:LEU:HD13	1:gG:391:ILE:HD13	1.57	0.86
1:gG:259:PHE:CZ	1:AL:259:PHE:CE1	2.63	0.86
5:FH:27:ARG:HD2	5:DN:26:GLU:HG2	1.58	0.86
1:AJ:62:LEU:HB2	1:KJ:88:GLU:HB3	0.87	0.86
1:AJ:120:LEU:HD12	1:JS:55:PHE:HB2	1.56	0.86
1:AJ:140:PHE:HE1	3:AN:26:ARG:HH21	1.23	0.86
1:AJ:170:GLU:CD	1:JS:33:TRP:HE3	1.84	0.86
1:AK:60:GLU:CG	1:KK:86:SER:HB2	2.04	0.86
1:IL:208:LEU:HD13	1:IL:391:ILE:HD13	1.57	0.86
1:IS:60:GLU:CG	1:JS:86:SER:HB2	2.04	0.86
1:A1:259:PHE:CE1	1:C6:259:PHE:CZ	2.63	0.86
1:I1:145:LEU:HD11	1:SE:80:ASP:OD2	1.74	0.86
1:X1:259:PHE:CZ	1:J6:259:PHE:CE1	2.63	0.86
2:l4:9:SER:HB2	1:DK:363:PRO:HG2	1.56	0.86
4:B5:250:ILE:CD1	3:AH:209:MET:HG2	2.05	0.86
1:Q6:29:TYR:C	1:LJ:315:ALA:CB	2.48	0.86
1:Q6:31:LYS:HG3	1:LJ:314:GLY:HA3	0.87	0.86
1:Q6:58:ILE:HB	1:CJ:55:PHE:CD2	2.09	0.86
1:B7:20:SER:CB	1:DP:47:GLU:H	1.87	0.86
1:g8:208:LEU:HD13	1:g8:391:ILE:HD13	1.57	0.86
1:i8:57:LYS:CD	1:DD:143:GLN:CD	1.90	0.86
1:KD:27:HIS:CE1	1:IS:310:THR:CG2	2.01	0.86
4:BF:250:ILE:HD13	3:AO:209:MET:HG2	1.56	0.86
3:AI:32:PHE:CE2	1:IS:54:LEU:HA	2.11	0.86
2:FJ:2:TYR:CE2	1:LP:153:LEU:CD1	2.59	0.86
1:LJ:22:LEU:CD2	1:JS:48:THR:N	2.39	0.86
1:KK:261:ILE:CG2	1:KK:265:ASP:CG	2.48	0.86
2:MK:1:MET:HB3	2:GP:54:THR:O	1.72	0.86
1:SL:259:PHE:O	1:SL:260:GLN:CB	2.23	0.86
2:hL:45:ILE:CG1	2:hL:46:HIS:N	2.36	0.86
1:C1:80:ASP:OD2	1:Y8:145:LEU:HD11	1.74	0.86
1:C1:259:PHE:CZ	1:A6:259:PHE:CE1	2.63	0.86
1:J1:64:ILE:HG13	2:N1:53:PHE:CD2	2.09	0.86
1:R1:123:ASN:HD21	1:CJ:21:ALA:CB	1.87	0.86
1:S1:259:PHE:O	1:S1:260:GLN:CB	2.23	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T1:53:TYR:CD1	1:CJ:222:SER:OG	2.28	0.86
1:X1:80:ASP:OD2	1:IR:145:LEU:HD11	1.74	0.86
1:g1:259:PHE:CE1	1:CQ:259:PHE:CZ	2.63	0.86
4:B2:249:GLN:HA	3:AF:210:SER:OG	1.73	0.86
1:R3:259:PHE:CE1	1:I8:259:PHE:CZ	2.63	0.86
1:R4:123:ASN:HD21	1:BS:21:ALA:CB	1.87	0.86
1:R4:382:LYS:CG	1:BS:32:SER:O	2.22	0.86
3:A5:209:MET:HG2	4:BO:250:ILE:CD1	2.05	0.86
1:J7:259:PHE:CE1	1:bQ:259:PHE:CZ	2.63	0.86
1:Y7:259:PHE:CZ	1:JR:259:PHE:CE1	2.63	0.86
2:P8:11:MET:HG3	1:CR:133:LEU:HB2	1.56	0.86
3:AA:209:MET:HG2	4:BH:250:ILE:CD1	2.05	0.86
1:ME:259:PHE:O	1:ME:260:GLN:CB	2.23	0.86
5:DF:26:GLU:HG2	5:FM:27:ARG:HD2	1.58	0.86
1:hG:259:PHE:CE1	1:CL:259:PHE:CZ	2.63	0.86
1:AJ:60:GLU:CG	1:KJ:86:SER:HB2	2.04	0.86
1:AJ:62:LEU:CB	1:KJ:88:GLU:CG	2.52	0.86
1:DJ:109:LEU:CD1	1:KP:105:GLU:C	2.48	0.86
1:LJ:45:MET:HG3	1:JS:19:LYS:CE	2.04	0.86
1:JL:259:PHE:CE1	1:YR:259:PHE:CZ	2.63	0.86
5:EO:140:ASP:HB3	5:CO:139:LYS:HE2	0.91	0.86
1:AP:62:LEU:HB2	1:KP:88:GLU:HB3	0.87	0.86
1:BQ:13:LEU:HD12	1:gR:45:MET:SD	2.15	0.86
1:YR:208:LEU:HD11	1:YR:391:ILE:HD13	1.46	0.86
1:f1:208:LEU:HD13	1:f1:391:ILE:HD13	1.57	0.86
1:I3:259:PHE:CZ	1:R8:259:PHE:CE1	2.63	0.86
2:P3:11:MET:HG3	1:IG:133:LEU:HB2	1.55	0.86
1:Y3:109:LEU:O	1:LK:105:GLU:CD	2.13	0.86
3:A5:155:GLU:HG2	1:AJ:139:ARG:CB	2.05	0.86
5:D5:26:GLU:HG2	5:FN:27:ARG:HD2	1.58	0.86
1:J6:64:ILE:HG13	2:N6:53:PHE:CD2	2.09	0.86
1:Q6:32:SER:O	1:LJ:382:LYS:HG2	1.76	0.86
1:Q6:375:TRP:CZ3	1:CS:367:PRO:HG2	2.11	0.86
1:C7:259:PHE:CZ	1:hR:259:PHE:CE1	2.63	0.86
1:I7:259:PHE:CZ	1:cQ:259:PHE:CE1	2.63	0.86
1:g7:80:ASP:OD2	1:C8:145:LEU:HD11	1.74	0.86
1:i7:13:LEU:HD12	1:C8:45:MET:SD	2.15	0.86
3:AA:114:PHE:N	2:MK:8:ARG:O	2.09	0.86
1:LD:54:LEU:CD1	1:DK:116:MET:SD	2.63	0.86
1:LD:144:THR:H	1:DK:82:ILE:CD1	1.81	0.86
2:ZE:11:MET:HG3	1:IL:133:LEU:HB2	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cE:13:LEU:HD12	1:CG:45:MET:SD	2.15	0.86
4:BF:3:ARG:CB	3:AO:194:ASN:HD21	1.88	0.86
4:BF:250:ILE:CD1	3:AO:209:MET:HG2	2.05	0.86
3:AI:112:ILE:CB	2:MJ:5:ASN:C	2.49	0.86
5:CI:265:LEU:CD2	5:NO:231:ASN:OD1	2.20	0.86
1:KJ:261:ILE:CG2	1:KJ:265:ASP:CG	2.48	0.86
1:LK:54:LEU:CD1	1:DP:116:MET:SD	2.63	0.86
1:LK:144:THR:C	1:DP:82:ILE:CD1	2.49	0.86
1:hR:64:ILE:HG13	2:kR:53:PHE:CD2	2.09	0.86
1:S1:13:LEU:HD12	1:Q8:45:MET:SD	2.15	0.86
1:f1:133:LEU:HB2	2:n7:11:MET:HG3	1.56	0.86
4:B2:250:ILE:CD1	3:AF:209:MET:HG2	2.05	0.86
1:I3:45:MET:SD	1:SL:13:LEU:HD12	2.15	0.86
1:J3:259:PHE:CE1	1:Q8:259:PHE:CZ	2.63	0.86
1:Q3:259:PHE:CZ	1:J8:259:PHE:CE1	2.63	0.86
2:H4:54:THR:HA	1:QG:62:LEU:HD12	0.91	0.86
1:K4:13:LEU:HD12	1:QL:45:MET:SD	2.15	0.86
2:P4:11:MET:HG3	1:AE:133:LEU:HB2	1.56	0.86
1:Q4:62:LEU:HD12	2:n8:54:THR:HA	0.91	0.86
1:R4:222:SER:HB2	1:BS:38:LYS:CA	2.06	0.86
2:e4:11:MET:HG3	1:bQ:133:LEU:HB2	1.56	0.86
1:f4:45:MET:SD	1:B6:13:LEU:HD12	2.15	0.86
1:i4:53:TYR:CD1	1:CD:222:SER:OG	2.28	0.86
1:I6:45:MET:SD	1:aR:13:LEU:HD12	2.15	0.86
1:C7:53:TYR:CE1	1:LK:223:GLY:HA2	2.11	0.86
1:Q7:259:PHE:CZ	1:RQ:259:PHE:CE1	2.63	0.86
1:A8:64:ILE:HG13	2:F8:53:PHE:CD2	2.09	0.86
3:A9:209:MET:HG2	4:BC:250:ILE:HD13	1.56	0.86
3:AA:112:ILE:HG22	2:MK:13:THR:O	1.70	0.86
5:EA:140:ASP:CB	5:CA:139:LYS:CG	2.52	0.86
5:DB:38:TYR:HB3	3:AO:202:ASN:HD21	1.40	0.86
1:KD:99:MET:CE	1:KK:136:ASN:HD21	1.87	0.86
1:KD:105:GLU:C	1:DK:109:LEU:CD1	2.48	0.86
1:LD:314:GLY:HA3	1:YG:31:LYS:HG3	0.87	0.86
1:aE:62:LEU:HD12	2:HR:54:THR:HA	0.91	0.86
4:BI:250:ILE:CD1	3:AN:209:MET:HG2	2.05	0.86
1:KJ:144:THR:H	1:AP:82:ILE:HG12	1.34	0.86
1:IL:145:LEU:HD11	1:IQ:80:ASP:OD2	1.74	0.86
5:EM:140:ASP:HB3	5:CM:139:LYS:HE2	0.91	0.86
3:AN:197:VAL:HG11	5:DO:40:THR:HG22	1.54	0.86
1:I1:45:MET:SD	1:UE:13:LEU:HD12	2.15	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:80:ASP:OD2	1:Y6:145:LEU:HD11	1.74	0.86
1:I1:208:LEU:HD13	1:I1:391:ILE:HD13	1.57	0.86
1:Q1:45:MET:SD	1:KG:13:LEU:HD12	2.15	0.86
1:I4:133:LEU:HB2	2:X8:11:MET:HG3	1.55	0.86
1:f4:145:LEU:HD11	1:C6:80:ASP:OD2	1.74	0.86
1:Q6:375:TRP:CE3	1:CS:367:PRO:HG2	2.10	0.86
1:Y6:133:LEU:HB2	2:PG:11:MET:HG3	1.56	0.86
2:f6:54:THR:HA	1:KE:62:LEU:HD12	0.91	0.86
1:g6:50:VAL:CG2	1:CP:137:ASP:OD2	2.24	0.86
1:g6:62:LEU:HD12	2:JE:54:THR:HA	0.91	0.86
1:h6:259:PHE:CE1	1:AE:259:PHE:CZ	2.63	0.86
2:X7:11:MET:HG3	1:Y7:133:LEU:HB2	1.56	0.86
2:f7:11:MET:HG3	1:I8:133:LEU:HB2	1.55	0.86
1:C8:80:ASP:OD2	1:AE:145:LEU:HD11	1.74	0.86
3:A9:154:ILE:HA	1:AK:139:ARG:CZ	2.05	0.86
4:B9:250:ILE:CD1	3:AB:209:MET:HG2	2.05	0.86
3:AC:29:ARG:NH1	1:AP:135:ASN:O	2.09	0.86
1:AD:145:LEU:CG	3:AF:37:GLU:OE1	2.20	0.86
1:KD:136:ASN:HD21	1:JS:99:MET:CE	1.88	0.86
1:LD:153:LEU:HD13	2:FK:4:GLY:HA3	1.56	0.86
2:MD:8:ARG:HH12	1:KK:374:HIS:HE1	0.91	0.86
1:KE:133:LEU:HB2	2:PR:11:MET:HG3	1.55	0.86
2:fG:11:MET:HG3	1:gG:133:LEU:HB2	1.56	0.86
1:DJ:121:TYR:CE1	1:LP:36:GLY:CA	2.58	0.86
1:AK:62:LEU:HB2	1:KK:88:GLU:HB3	0.87	0.86
1:AK:304:GLN:NE2	1:KP:28:ASP:HB2	1.90	0.86
1:BK:261:ILE:CG2	1:BK:265:ASP:OD2	2.21	0.86
1:f1:145:LEU:HD11	1:C3:80:ASP:OD2	1.74	0.85
3:A2:108:THR:CB	2:MD:7:MET:HE1	2.05	0.85
1:A4:64:ILE:HG13	2:F4:53:PHE:CD2	2.09	0.85
3:A5:112:ILE:HG23	2:MJ:27:ASN:CB	2.06	0.85
1:C6:133:LEU:HB2	2:HL:11:MET:HG3	1.56	0.85
1:Y6:259:PHE:CZ	1:LE:259:PHE:CE1	2.63	0.85
1:C7:375:TRP:CE3	1:DP:367:PRO:HG2	2.10	0.85
1:i7:259:PHE:O	1:i7:260:GLN:CB	2.23	0.85
5:DA:28:TYR:CD2	1:AK:137:ASP:OD1	2.29	0.85
3:AB:32:PHE:HZ	1:AD:370:ASP:OD1	1.58	0.85
1:DD:119:LYS:HZ3	1:KS:38:LYS:CG	1.86	0.85
1:KD:48:THR:N	1:KS:22:LEU:CD2	2.39	0.85
1:LD:14:VAL:C	1:KK:45:MET:HB3	1.85	0.85
1:LD:47:GLU:HB2	1:KK:22:LEU:CD2	2.03	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:382:LYS:HG2	1:YG:32:SER:O	1.76	0.85
5:EF:57:GLU:HA	4:BO:33:TYR:HH	1.41	0.85
1:YG:375:TRP:CZ3	1:DK:367:PRO:HG2	2.10	0.85
2:nG:11:MET:HG3	1:YR:133:LEU:HB2	1.56	0.85
5:EI:57:GLU:CG	4:BN:33:TYR:CE1	2.59	0.85
1:DJ:174:MET:HA	1:LP:33:TRP:NE1	1.83	0.85
1:LJ:33:TRP:HH2	1:CS:173:ALA:HB1	1.11	0.85
1:LJ:37:ASP:O	1:CS:119:LYS:HG2	1.76	0.85
1:CK:21:ALA:CB	1:hR:123:ASN:HD21	1.87	0.85
1:LK:22:LEU:CD2	1:KP:48:THR:N	2.39	0.85
1:BP:111:ARG:HH21	1:hR:105:GLU:CG	1.89	0.85
1:DP:363:PRO:HG2	2:mR:9:SER:HB2	1.56	0.85
2:XQ:11:MET:HG3	1:QR:133:LEU:HB2	1.56	0.85
1:QR:208:LEU:HD13	1:QR:391:ILE:HD13	1.57	0.85
1:JS:261:ILE:CG2	1:JS:265:ASP:CG	2.48	0.85
1:C1:133:LEU:HB2	2:P7:11:MET:HG3	1.56	0.85
1:Q1:62:LEU:HD12	2:X6:54:THR:HA	0.90	0.85
1:B4:259:PHE:O	1:B4:260:GLN:CB	2.23	0.85
1:X4:133:LEU:HB2	2:hE:11:MET:HG3	1.56	0.85
1:g4:105:GLU:HB2	1:BK:109:LEU:HD13	1.57	0.85
1:Q6:21:ALA:N	1:CJ:47:GLU:HG3	1.77	0.85
1:Q6:50:VAL:CG2	1:CJ:137:ASP:OD2	2.24	0.85
1:g6:33:TRP:H	1:LP:174:MET:HE3	0.75	0.85
1:g6:57:LYS:CB	1:CP:143:GLN:HE21	1.86	0.85
1:Q7:208:LEU:HD13	1:Q7:391:ILE:HD13	1.57	0.85
1:C8:208:LEU:HD13	1:C8:391:ILE:HD13	1.57	0.85
1:LD:153:LEU:CD1	2:FK:2:TYR:CE2	2.59	0.85
1:BE:105:GLU:HB2	1:BJ:109:LEU:HD13	1.57	0.85
1:UE:259:PHE:O	1:UE:260:GLN:CB	2.23	0.85
1:AJ:62:LEU:HG	1:KJ:88:GLU:CG	2.04	0.85
1:BJ:261:ILE:HG22	1:BJ:265:ASP:OD1	1.62	0.85
1:AK:82:ILE:HG12	1:KP:144:THR:H	1.34	0.85
3:AO:64:GLN:HA	1:IS:146:ALA:HA	1.52	0.85
5:DO:25:ARG:NH2	1:CS:100:ASP:OD2	0.71	0.85
3:A2:106:ARG:C	2:MD:7:MET:HG3	2.02	0.85
5:E2:57:GLU:CG	4:BF:33:TYR:CE1	2.59	0.85
1:S6:143:GLN:C	1:AS:82:ILE:HD13	1.98	0.85
1:h8:64:ILE:HG13	2:l8:53:PHE:CD2	2.09	0.85
1:i8:259:PHE:O	1:i8:260:GLN:CB	2.23	0.85
1:AD:130:LYS:HD2	1:KK:368:GLU:CD	1.99	0.85
1:DD:104:ASN:HD21	5:DF:25:ARG:HH21	0.93	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:109:LEU:CD1	1:JS:105:GLU:C	2.48	0.85
1:LD:368:GLU:OE1	1:DK:130:LYS:HB3	1.77	0.85
1:FE:53:TYR:CD1	1:CP:222:SER:OG	2.28	0.85
1:ME:13:LEU:HD12	1:QQ:45:MET:SD	2.15	0.85
1:bE:259:PHE:CE1	1:CR:259:PHE:CZ	2.63	0.85
1:YG:208:LEU:HD13	1:YG:391:ILE:HD13	1.57	0.85
5:FI:27:ARG:HD2	5:DO:26:GLU:HG2	1.58	0.85
1:DJ:384:ILE:HD13	1:LP:35:PHE:HE1	1.38	0.85
1:CK:38:LYS:CA	1:hR:222:SER:HB2	2.06	0.85
1:CQ:208:LEU:HD11	1:CQ:391:ILE:HD13	1.46	0.85
1:IQ:208:LEU:HD13	1:IQ:391:ILE:HD13	1.57	0.85
1:YR:208:LEU:HD13	1:YR:391:ILE:HD13	1.57	0.85
1:R1:222:SER:HB2	1:CJ:38:LYS:CA	2.06	0.85
1:Q6:30:SER:O	1:LJ:315:ALA:HA	1.74	0.85
1:Q6:208:LEU:HD13	1:Q6:391:ILE:HD13	1.57	0.85
2:f6:11:MET:HG3	1:QQ:133:LEU:HB2	1.56	0.85
1:Z7:259:PHE:CE1	1:IR:259:PHE:CZ	2.63	0.85
1:S8:259:PHE:O	1:S8:260:GLN:CB	2.23	0.85
1:g8:137:ASP:OD2	1:BS:49:PHE:HB2	1.76	0.85
1:g8:375:TRP:CZ3	1:DD:367:PRO:HG2	2.11	0.85
4:BA:33:TYR:CE1	5:EH:57:GLU:CG	2.59	0.85
1:DD:119:LYS:HG2	1:KS:37:ASP:O	1.77	0.85
1:KD:100:ASP:HB2	1:KK:27:HIS:O	1.75	0.85
1:LD:315:ALA:HA	1:YG:30:SER:O	1.74	0.85
1:FE:30:SER:N	1:CP:315:ALA:HB1	1.89	0.85
1:LJ:144:THR:C	1:CS:82:ILE:CD1	2.49	0.85
1:LK:153:LEU:CD1	2:FP:2:TYR:CE2	2.58	0.85
3:AM:112:ILE:CG2	2:LS:19:ARG:H	1.75	0.85
1:CQ:133:LEU:HB2	2:iQ:11:MET:HG3	1.56	0.85
1:IS:62:LEU:HB2	1:JS:88:GLU:HB3	0.87	0.85
1:C3:208:LEU:HD13	1:C3:391:ILE:HD13	1.57	0.85
1:Q4:208:LEU:HD13	1:Q4:391:ILE:HD13	1.57	0.85
1:f4:71:ARG:NH2	1:ZG:210:ASN:HD22	1.75	0.85
1:g4:116:MET:HE2	1:CD:54:LEU:HD22	1.56	0.85
1:g4:259:PHE:CE1	1:YG:259:PHE:CZ	2.63	0.85
1:S6:57:LYS:CD	1:CS:143:GLN:CD	1.90	0.85
1:g6:53:TYR:CE1	1:LP:223:GLY:HA2	2.11	0.85
1:g6:139:ARG:HH11	1:LP:81:PHE:HD2	1.22	0.85
1:C7:50:VAL:CG2	1:CK:137:ASP:OD2	2.24	0.85
1:I7:71:ARG:NH2	1:cQ:210:ASN:HD22	1.75	0.85
3:A9:202:ASN:HD21	5:DH:38:TYR:HB3	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A9:209:MET:HG2	4:BC:250:ILE:CD1	2.05	0.85
5:E9:57:GLU:CG	4:BB:33:TYR:CE1	2.59	0.85
1:KD:22:LEU:CD2	1:KS:47:GLU:HB2	2.03	0.85
1:LD:81:PHE:HD2	1:YG:139:ARG:HH11	1.22	0.85
6:LF:99:GLN:O	2:LS:3:GLU:CD	2.18	0.85
1:hG:210:ASN:HD22	1:CL:71:ARG:NH2	1.75	0.85
4:BI:33:TYR:CE1	5:EM:57:GLU:CG	2.59	0.85
1:AJ:83:GLY:N	1:JS:142:PHE:O	2.10	0.85
1:AJ:315:ALA:CA	1:JS:30:SER:C	2.46	0.85
1:KJ:105:GLU:C	1:CS:109:LEU:CD1	2.48	0.85
1:CK:222:SER:OG	1:jR:53:TYR:CD1	2.28	0.85
1:KK:100:ASP:HB2	1:KP:27:HIS:O	1.75	0.85
1:LK:369:PHE:HD2	1:BP:108:MET:HE3	1.41	0.85
1:aL:259:PHE:O	1:aL:260:GLN:CB	2.23	0.85
1:CQ:208:LEU:HD13	1:CQ:391:ILE:HD13	1.57	0.85
1:A3:210:ASN:HD22	1:g7:71:ARG:NH2	1.75	0.85
1:K3:259:PHE:O	1:K3:260:GLN:CB	2.23	0.85
1:X4:208:LEU:HD13	1:X4:391:ILE:HD13	1.57	0.85
1:Y4:210:ASN:HD22	1:Y8:71:ARG:NH2	1.75	0.85
1:C6:145:LEU:HD11	1:gG:80:ASP:OD2	1.74	0.85
1:C7:367:PRO:CG	1:LK:375:TRP:CD2	2.34	0.85
1:g8:38:LYS:HD2	1:KS:222:SER:HA	1.58	0.85
1:g8:50:VAL:CG2	1:BS:137:ASP:OD2	2.24	0.85
5:NB:231:ASN:OD1	5:CF:265:LEU:CD2	2.20	0.85
1:AD:145:LEU:HB3	3:AF:37:GLU:CD	2.00	0.85
1:DD:130:LYS:HB3	1:KS:368:GLU:OE1	1.77	0.85
1:DD:174:MET:CA	1:KS:33:TRP:CE2	2.46	0.85
1:DD:304:GLN:NE2	1:KS:28:ASP:HA	1.92	0.85
1:KD:33:TRP:HE3	1:IS:170:GLU:CD	1.84	0.85
1:LD:144:THR:C	1:DK:82:ILE:CD1	2.49	0.85
1:LD:223:GLY:HA2	1:YG:53:TYR:CE1	2.11	0.85
1:AE:208:LEU:HD13	1:AE:391:ILE:HD13	1.57	0.85
1:SE:71:ARG:NH2	1:JQ:210:ASN:HD22	1.75	0.85
1:QG:208:LEU:HD13	1:QG:391:ILE:HD13	1.57	0.85
3:AI:194:ASN:HD21	4:BM:3:ARG:CB	1.88	0.85
1:DJ:126:VAL:HG13	1:LP:25:PHE:CE1	1.91	0.85
1:CK:133:LEU:HD22	2:kR:11:MET:HG2	1.54	0.85
1:LK:57:LYS:HD3	1:KP:58:ILE:HG21	1.59	0.85
1:QL:62:LEU:HD12	2:XR:54:THR:HA	0.90	0.85
5:EN:140:ASP:CG	5:CN:139:LYS:CE	2.37	0.85
1:dQ:259:PHE:O	1:dQ:260:GLN:CB	2.23	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:45:MET:SD	1:dQ:13:LEU:HD12	2.15	0.85
1:J1:210:ASN:HD22	1:IG:71:ARG:NH2	1.75	0.85
1:X4:259:PHE:CZ	1:Z8:259:PHE:CE1	2.63	0.85
3:A5:202:ASN:HD21	5:DM:38:TYR:HB3	1.40	0.85
5:E5:57:GLU:CG	4:BH:33:TYR:CE1	2.59	0.85
1:Q6:153:LEU:HD21	2:NJ:4:GLY:HA3	1.58	0.85
1:S6:14:VAL:CG2	1:CS:14:VAL:HG11	2.05	0.85
2:X6:11:MET:HG2	1:Q8:372:VAL:HG12	1.47	0.85
1:a7:13:LEU:HD12	1:KE:45:MET:SD	2.15	0.85
4:BB:3:ARG:CB	3:AM:194:ASN:HD21	1.88	0.85
1:LD:22:LEU:CD2	1:KK:48:THR:N	2.39	0.85
2:MD:2:TYR:CB	2:GK:54:THR:OG1	2.25	0.85
1:FE:365:HIS:HD2	2:HP:10:MET:SD	1.95	0.85
1:iG:259:PHE:O	1:iG:260:GLN:CB	2.23	0.85
3:AH:202:ASN:HD21	5:DI:38:TYR:HB3	1.40	0.85
1:AJ:304:GLN:NE2	1:JS:28:ASP:HB2	1.90	0.85
1:KJ:136:ASN:HD21	1:KP:99:MET:CE	1.88	0.85
1:LK:57:LYS:HE2	1:KP:61:THR:CG2	2.07	0.85
1:C1:145:LEU:HD11	1:bQ:80:ASP:OD2	1.74	0.85
1:R1:210:ASN:HD22	1:Q6:71:ARG:NH2	1.75	0.85
1:R3:210:ASN:HD22	1:I8:71:ARG:NH2	1.75	0.85
1:I4:71:ARG:NH2	1:A8:210:ASN:HD22	1.75	0.85
1:i4:30:SER:N	1:CD:315:ALA:HB1	1.89	0.85
5:F5:27:ARG:HD2	5:DI:26:GLU:HG2	1.58	0.85
5:N5:231:ASN:OD1	5:CN:265:LEU:CD2	2.21	0.85
1:K6:13:LEU:HD12	1:CL:45:MET:SD	2.15	0.85
1:Q6:53:TYR:CE1	1:LJ:223:GLY:HA2	2.11	0.85
1:C7:32:SER:O	1:LK:382:LYS:HG2	1.76	0.85
1:C7:375:TRP:CZ3	1:DP:367:PRO:HG2	2.11	0.85
1:I7:45:MET:SD	1:iR:13:LEU:HD12	2.15	0.85
1:g8:139:ARG:HH11	1:KS:81:PHE:HD2	1.22	0.85
3:AC:29:ARG:HD2	1:AP:136:ASN:O	1.75	0.85
1:KD:61:THR:CG2	1:KS:57:LYS:HE2	2.07	0.85
1:FE:367:PRO:CG	1:CP:375:TRP:CZ3	2.57	0.85
5:EF:57:GLU:CG	4:BO:33:TYR:CE1	2.59	0.85
1:DJ:119:LYS:HG2	1:LP:37:ASP:O	1.77	0.85
1:AK:83:GLY:N	1:KP:142:PHE:O	2.10	0.85
1:K1:259:PHE:O	1:K1:260:GLN:CB	2.23	0.85
1:Q1:71:ARG:NH2	1:R6:210:ASN:HD22	1.75	0.85
5:F2:27:ARG:HD2	5:D9:26:GLU:HG2	1.58	0.85
1:C3:45:MET:SD	1:SG:13:LEU:HD12	2.15	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C4:29:TYR:HH	1:CG:302:ASP:CG	1.85	0.85
1:S4:13:LEU:HD12	1:IQ:45:MET:SD	2.15	0.85
4:B5:33:TYR:CE1	5:EO:57:GLU:CG	2.59	0.85
2:P6:11:MET:HG3	1:IR:133:LEU:HB2	1.56	0.85
1:Q6:38:LYS:HD2	1:LJ:222:SER:HA	1.58	0.85
1:Y6:208:LEU:HD13	1:Y6:391:ILE:HD13	1.57	0.85
1:C7:30:SER:O	1:LK:315:ALA:HA	1.74	0.85
1:S7:259:PHE:O	1:S7:260:GLN:CB	2.23	0.85
1:g7:45:MET:SD	1:CE:13:LEU:HD12	2.15	0.85
1:I8:208:LEU:HD13	1:I8:391:ILE:HD13	1.57	0.85
2:n8:11:MET:HG3	1:IQ:133:LEU:HB2	1.55	0.85
4:BB:250:ILE:CD1	3:AM:209:MET:HG2	2.05	0.85
1:LD:57:LYS:HD3	1:KK:58:ILE:HG21	1.59	0.85
1:BE:105:GLU:C	1:BJ:109:LEU:HD12	2.01	0.85
1:AG:210:ASN:HD22	1:YL:71:ARG:NH2	1.75	0.85
1:aG:47:GLU:HB3	1:DK:20:SER:HB2	1.55	0.85
1:KJ:368:GLU:CD	1:AP:130:LYS:HD2	1.99	0.85
1:LK:368:GLU:OE1	1:DP:130:LYS:HB3	1.77	0.85
1:RL:210:ASN:HD22	1:QR:71:ARG:NH2	1.75	0.85
1:R1:316:VAL:HG23	1:CJ:31:LYS:CD	2.07	0.85
5:D2:26:GLU:HG2	5:FB:27:ARG:HD2	1.58	0.85
2:j4:3:GLU:O	1:CD:153:LEU:HD13	1.77	0.85
1:a6:13:LEU:HD12	1:SE:45:MET:SD	2.15	0.85
1:g6:375:TRP:CZ3	1:DJ:367:PRO:HG2	2.11	0.85
1:g8:153:LEU:HD21	2:MS:4:GLY:HA3	1.58	0.85
1:i8:144:THR:CA	1:BD:82:ILE:HD11	1.83	0.85
4:B9:33:TYR:CE1	5:EC:57:GLU:CG	2.59	0.85
5:EB:140:ASP:CG	5:CB:139:LYS:CE	2.37	0.85
1:AD:145:LEU:CB	3:AF:37:GLU:CD	2.50	0.85
5:EH:140:ASP:CA	5:CH:139:LYS:CB	2.00	0.85
5:EH:140:ASP:HB3	5:CH:139:LYS:HE2	0.91	0.85
1:BJ:108:MET:HE3	1:LP:369:PHE:HD2	1.41	0.85
1:DJ:121:TYR:HD1	1:LP:36:GLY:HA2	1.40	0.85
1:KJ:33:TRP:HE3	1:AP:170:GLU:CD	1.84	0.85
1:LJ:25:PHE:CD1	1:AS:99:MET:O	2.30	0.85
1:LJ:368:GLU:OE1	1:CS:130:LYS:HB3	1.77	0.85
1:CK:153:LEU:HD13	2:kR:3:GLU:O	1.77	0.85
1:LK:38:LYS:CG	1:DP:119:LYS:HZ3	1.87	0.85
1:QL:71:ARG:NH2	1:RR:210:ASN:HD22	1.75	0.85
1:YL:45:MET:SD	1:SR:13:LEU:HD12	2.15	0.85
1:IR:208:LEU:HD13	1:IR:391:ILE:HD13	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h1:13:LEU:HD12	1:QG:45:MET:SD	2.15	0.84
1:h1:259:PHE:O	1:h1:260:GLN:CB	2.23	0.84
4:B2:33:TYR:CE1	5:EA:57:GLU:CG	2.59	0.84
1:Q3:47:GLU:OE2	1:Z4:22:LEU:CD2	2.25	0.84
1:R4:316:VAL:HG23	1:BS:31:LYS:CD	2.07	0.84
1:g4:222:SER:HB2	1:CD:38:LYS:CA	2.06	0.84
1:C6:45:MET:SD	1:iG:13:LEU:HD12	2.15	0.84
5:EB:57:GLU:CG	4:BM:33:TYR:CE1	2.59	0.84
1:AD:170:GLU:CD	1:KK:33:TRP:HE3	1.84	0.84
2:JE:2:TYR:HB3	1:DJ:150:ASN:OD1	1.77	0.84
1:YG:222:SER:OG	1:DK:53:TYR:CD1	2.26	0.84
4:BI:3:ARG:CB	3:AN:194:ASN:HD21	1.88	0.84
1:DJ:82:ILE:CD1	1:LP:144:THR:C	2.49	0.84
1:LJ:28:ASP:HA	1:CS:304:GLN:NE2	1.92	0.84
2:MJ:2:TYR:CB	2:FS:54:THR:OG1	2.25	0.84
1:AK:170:GLU:CD	1:KP:33:TRP:HE3	1.84	0.84
1:LK:28:ASP:HA	1:DP:304:GLN:NE2	1.92	0.84
1:LK:33:TRP:NE1	1:DP:174:MET:HA	1.83	0.84
3:AO:155:GLU:N	1:IS:143:GLN:O	2.10	0.84
1:C3:133:LEU:HB2	2:H4:11:MET:HG3	1.55	0.84
1:K3:22:LEU:CD2	1:I4:47:GLU:OE2	2.25	0.84
1:B4:13:LEU:HD12	1:aE:45:MET:SD	2.15	0.84
1:J4:210:ASN:HD22	1:C8:71:ARG:NH2	1.75	0.84
1:Q4:71:ARG:NH2	1:h8:210:ASN:HD22	1.75	0.84
1:X4:71:ARG:NH2	1:Z8:210:ASN:HD22	1.75	0.84
1:B8:259:PHE:O	1:B8:260:GLN:CB	2.23	0.84
1:S8:22:LEU:CD2	1:IG:47:GLU:OE2	2.25	0.84
4:BC:33:TYR:CE1	5:EN:57:GLU:CG	2.59	0.84
1:AD:140:PHE:CA	3:AF:29:ARG:NE	2.40	0.84
2:GD:54:THR:OG1	2:LS:2:TYR:CB	2.25	0.84
1:BE:316:VAL:HG23	1:CP:31:LYS:CD	2.07	0.84
1:FE:153:LEU:HD23	2:HP:2:TYR:CD2	2.12	0.84
1:ME:22:LEU:CD2	1:QQ:47:GLU:OE2	2.25	0.84
1:CG:208:LEU:HD13	1:CG:391:ILE:HD13	1.57	0.84
1:DJ:130:LYS:HB3	1:LP:368:GLU:OE1	1.77	0.84
1:DJ:304:GLN:NE2	1:LP:28:ASP:HA	1.92	0.84
1:KJ:100:ASP:HA	1:JS:25:PHE:O	1.54	0.84
1:KJ:142:PHE:O	1:AP:83:GLY:N	2.10	0.84
1:BL:13:LEU:HD12	1:YR:45:MET:SD	2.15	0.84
1:YL:208:LEU:HD13	1:YL:391:ILE:HD13	1.57	0.84
1:I1:71:ARG:NH2	1:JG:210:ASN:HD22	1.75	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U1:3:GLU:O	1:CJ:153:LEU:HD13	1.77	0.84
1:B3:259:PHE:O	1:B3:260:GLN:CB	2.23	0.84
1:A4:210:ASN:HD22	1:QG:71:ARG:NH2	1.75	0.84
1:S4:22:LEU:CD2	1:IQ:47:GLU:OE2	2.25	0.84
1:g4:316:VAL:HG23	1:CD:31:LYS:CD	2.07	0.84
1:g6:20:SER:OG	1:CP:47:GLU:HG2	1.77	0.84
1:R7:210:ASN:HD22	1:QQ:71:ARG:NH2	1.75	0.84
5:F9:27:ARG:HD2	5:DA:26:GLU:HG2	1.58	0.84
3:AC:114:PHE:CB	2:MP:51:GLN:CG	2.55	0.84
1:AD:49:PHE:O	1:AD:50:VAL:C	2.16	0.84
1:AD:145:LEU:HB2	3:AF:37:GLU:HB2	1.57	0.84
1:CD:47:GLU:HG3	1:YG:21:ALA:N	1.77	0.84
1:KE:80:ASP:OD2	1:QQ:145:LEU:HD11	1.74	0.84
1:KJ:48:THR:N	1:LP:22:LEU:CD2	2.39	0.84
1:KQ:259:PHE:O	1:KQ:260:GLN:CB	2.23	0.84
2:U1:1:MET:H2	1:CJ:150:ASN:CG	1.70	0.84
1:X1:45:MET:SD	1:K8:13:LEU:HD12	2.15	0.84
1:C3:47:GLU:OE2	1:SG:22:LEU:CD2	2.25	0.84
1:S3:22:LEU:CD2	1:CR:47:GLU:OE2	2.25	0.84
1:T4:363:PRO:HG3	2:GS:9:SER:CB	2.08	0.84
2:W4:2:TYR:HB3	1:DD:150:ASN:OD1	1.77	0.84
1:g4:210:ASN:HD22	1:YG:71:ARG:NH2	1.75	0.84
1:C6:208:LEU:HD13	1:C6:391:ILE:HD13	1.57	0.84
1:C7:29:TYR:CZ	1:LK:302:ASP:OD2	2.30	0.84
1:C7:222:SER:OG	1:DP:53:TYR:CD1	2.26	0.84
1:BD:261:ILE:HG22	1:BD:265:ASP:OD1	1.62	0.84
1:CD:47:GLU:HG2	1:YG:20:SER:OG	1.77	0.84
1:CD:137:ASP:OD2	1:YG:50:VAL:CG2	2.24	0.84
1:BE:105:GLU:HA	1:DJ:369:PHE:HE2	0.76	0.84
3:AI:32:PHE:CE2	1:IS:54:LEU:CB	2.61	0.84
1:CK:38:LYS:CD	1:hR:221:ALA:CA	2.05	0.84
1:LK:35:PHE:HE1	1:DP:384:ILE:HD13	1.38	0.84
1:KL:259:PHE:O	1:KL:260:GLN:CB	2.23	0.84
1:DP:150:ASN:OD1	2:mR:2:TYR:HB3	1.77	0.84
1:T1:363:PRO:HG3	2:HJ:9:SER:CB	2.08	0.84
1:Q4:45:MET:SD	1:KL:13:LEU:HD12	2.15	0.84
1:R4:105:GLU:CG	1:BD:111:ARG:HH21	1.89	0.84
2:W4:9:SER:HB2	1:DD:363:PRO:HG2	1.56	0.84
3:A5:155:GLU:CG	1:AJ:139:ARG:CB	2.55	0.84
5:C5:265:LEU:CD2	5:NI:231:ASN:OD1	2.21	0.84
1:I6:208:LEU:HD13	1:I6:391:ILE:HD13	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q6:14:VAL:HB	1:CJ:45:MET:CE	2.03	0.84
1:a6:259:PHE:O	1:a6:260:GLN:CB	2.23	0.84
1:i6:14:VAL:CG2	1:DJ:14:VAL:HG11	2.05	0.84
1:C7:38:LYS:HD2	1:LK:222:SER:HA	1.58	0.84
1:B7:20:SER:HG	1:DP:47:GLU:HB2	1.42	0.84
1:J7:210:ASN:HD22	1:bQ:71:ARG:NH2	1.75	0.84
1:Q7:47:GLU:OE2	1:aL:22:LEU:CD2	2.25	0.84
1:a7:259:PHE:O	1:a7:260:GLN:CB	2.23	0.84
1:g8:53:TYR:CD1	1:KS:223:GLY:HA2	2.13	0.84
3:A9:81:LEU:CD1	1:AK:153:LEU:HD13	2.02	0.84
5:DB:26:GLU:HG2	5:FF:27:ARG:HD2	1.58	0.84
1:AD:145:LEU:HB2	3:AF:37:GLU:CB	2.07	0.84
1:CD:49:PHE:HB2	1:YG:137:ASP:OD2	1.76	0.84
1:KD:55:PHE:HE2	1:KS:58:ILE:CG2	1.75	0.84
1:KD:149:THR:CG2	2:LS:15:TYR:CB	2.54	0.84
1:LD:302:ASP:OD2	1:YG:29:TYR:CZ	2.30	0.84
1:bE:210:ASN:HD22	1:CR:71:ARG:NH2	1.75	0.84
1:AJ:49:PHE:O	1:AJ:50:VAL:C	2.16	0.84
1:BJ:99:MET:O	1:LP:25:PHE:CD1	2.30	0.84
1:BJ:107:LEU:HD11	1:LP:369:PHE:CE1	2.13	0.84
2:MK:2:TYR:CB	2:GP:54:THR:OG1	2.25	0.84
1:QQ:208:LEU:HD13	1:QQ:391:ILE:HD13	1.57	0.84
1:C1:62:LEU:HD12	2:H6:54:THR:HA	0.91	0.84
1:C1:208:LEU:HD13	1:C1:391:ILE:HD13	1.57	0.84
1:X1:71:ARG:NH2	1:J6:210:ASN:HD22	1.75	0.84
5:C2:265:LEU:CD2	5:N9:231:ASN:OD1	2.21	0.84
1:X4:45:MET:SD	1:BR:13:LEU:HD12	2.15	0.84
1:I6:47:GLU:OE2	1:aR:22:LEU:CD2	2.25	0.84
1:a6:22:LEU:CD2	1:SE:47:GLU:OE2	2.25	0.84
1:g6:29:TYR:CZ	1:LP:302:ASP:OD2	2.31	0.84
1:g6:153:LEU:HD21	2:NP:4:GLY:HA3	1.58	0.84
1:C7:71:ARG:NH2	1:hR:210:ASN:HD22	1.75	0.84
1:Z7:210:ASN:HD22	1:IR:71:ARG:NH2	1.75	0.84
5:E9:140:ASP:HB3	5:C9:139:LYS:HE2	0.91	0.84
3:AC:29:ARG:CD	1:AP:136:ASN:C	2.44	0.84
1:AD:62:LEU:CG	1:KD:88:GLU:CG	2.56	0.84
1:KD:364:PHE:CE2	1:JS:108:MET:SD	2.71	0.84
1:LD:223:GLY:HA2	1:YG:53:TYR:CD1	2.13	0.84
2:JE:9:SER:HB2	1:DJ:363:PRO:HG2	1.56	0.84
1:TE:210:ASN:HD22	1:IQ:71:ARG:NH2	1.75	0.84
1:CG:71:ARG:NH2	1:ZL:210:ASN:HD22	1.75	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:259:PHE:O	1:BG:260:GLN:CB	2.23	0.84
1:gG:71:ARG:NH2	1:AL:210:ASN:HD22	1.75	0.84
1:DJ:81:PHE:HE2	1:LP:139:ARG:HB2	1.32	0.84
1:DJ:82:ILE:HD11	1:LP:144:THR:H	1.38	0.84
1:KJ:149:THR:CG2	2:MP:15:TYR:CB	2.54	0.84
1:LJ:33:TRP:CE2	1:CS:174:MET:CA	2.46	0.84
2:MJ:15:TYR:CB	1:JS:149:THR:CG2	2.54	0.84
1:BL:22:LEU:CD2	1:YR:47:GLU:OE2	2.25	0.84
1:C3:71:ARG:NH2	1:h7:210:ASN:HD22	1.75	0.84
1:X4:48:THR:HG23	1:BR:137:ASP:OD1	1.78	0.84
1:i4:153:LEU:HD23	2:HD:2:TYR:CD2	2.12	0.84
1:Q6:29:TYR:CZ	1:LJ:302:ASP:OD2	2.31	0.84
1:K7:22:LEU:CD2	1:CQ:47:GLU:OE2	2.25	0.84
1:K7:137:ASP:OD1	1:CQ:48:THR:HG23	1.78	0.84
1:a7:22:LEU:CD2	1:KE:47:GLU:OE2	2.25	0.84
1:K8:259:PHE:O	1:K8:260:GLN:CB	2.23	0.84
1:g8:53:TYR:CE1	1:KS:223:GLY:HA2	2.11	0.84
3:AB:116:VAL:HA	2:MD:19:ARG:CD	2.07	0.84
1:AD:140:PHE:CD1	3:AF:29:ARG:NE	2.45	0.84
1:BD:107:LEU:HD11	1:KS:369:PHE:CE1	2.13	0.84
1:BD:108:MET:HE3	1:KS:369:PHE:HD2	1.41	0.84
1:LD:36:GLY:HA2	1:DK:121:TYR:HD1	1.40	0.84
1:CE:259:PHE:O	1:CE:260:GLN:CB	2.23	0.84
1:KJ:58:ILE:HG21	1:LP:57:LYS:HD3	1.59	0.84
1:AK:49:PHE:O	1:AK:50:VAL:C	2.16	0.84
1:BL:137:ASP:OD1	1:YR:48:THR:HG23	1.78	0.84
5:EN:140:ASP:HB3	5:CN:139:LYS:HE2	0.91	0.84
1:BQ:22:LEU:CD2	1:gR:47:GLU:OE2	2.25	0.84
1:R1:221:ALA:CA	1:CJ:38:LYS:CD	2.05	0.84
1:T1:153:LEU:HD23	2:HJ:2:TYR:CD2	2.12	0.84
1:h4:13:LEU:HD12	1:gG:45:MET:SD	2.15	0.84
1:I6:48:THR:HG23	1:aR:137:ASP:OD1	1.78	0.84
1:Q6:53:TYR:CD1	1:LJ:223:GLY:HA2	2.13	0.84
1:S6:20:SER:HB2	1:CS:47:GLU:HB3	1.32	0.84
1:C7:139:ARG:HH11	1:LK:81:PHE:HD2	1.22	0.84
1:K7:13:LEU:HD12	1:CQ:45:MET:SD	2.15	0.84
1:S7:22:LEU:CD2	1:QR:47:GLU:OE2	2.25	0.84
1:Y7:47:GLU:OE2	1:SQ:22:LEU:CD2	2.25	0.84
1:a7:137:ASP:OD1	1:KE:48:THR:HG23	1.78	0.84
1:g7:47:GLU:OE2	1:CE:22:LEU:CD2	2.25	0.84
1:a8:13:LEU:HD12	1:bQ:45:MET:SD	2.15	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:145:LEU:HD22	3:AF:33:ASN:CB	2.06	0.84
1:KD:28:ASP:HB2	1:IS:304:GLN:NE2	1.90	0.84
1:KD:108:MET:SD	1:KK:364:PHE:CE2	2.71	0.84
1:LD:30:SER:HB3	1:BK:98:ASN:HD22	1.43	0.84
1:BE:222:SER:HB2	1:CP:38:LYS:CA	2.06	0.84
2:HE:3:GLU:O	1:CP:153:LEU:HD13	1.77	0.84
1:KJ:21:ALA:HB2	1:AP:123:ASN:HD22	1.31	0.84
1:KJ:108:MET:SD	1:JS:364:PHE:CE2	2.71	0.84
1:AP:49:PHE:O	1:AP:50:VAL:C	2.16	0.84
1:AP:62:LEU:CG	1:KP:88:GLU:CG	2.56	0.84
1:gR:208:LEU:HD13	1:gR:391:ILE:HD13	1.57	0.84
1:C1:48:THR:HG23	1:dQ:137:ASP:OD1	1.78	0.84
1:I1:47:GLU:OE2	1:UE:22:LEU:CD2	2.25	0.84
1:Y1:210:ASN:HD22	1:I6:71:ARG:NH2	1.75	0.84
1:f1:45:MET:SD	1:B3:13:LEU:HD12	2.15	0.84
1:f4:208:LEU:HD13	1:f4:391:ILE:HD13	1.57	0.84
1:h4:137:ASP:OD1	1:gG:48:THR:HG23	1.78	0.84
1:C6:48:THR:HG23	1:iG:137:ASP:OD1	1.78	0.84
1:Q6:20:SER:OG	1:CJ:47:GLU:HG2	1.77	0.84
1:A7:210:ASN:HD22	1:gR:71:ARG:NH2	1.75	0.84
1:i7:137:ASP:OD1	1:C8:48:THR:HG23	1.78	0.84
1:g8:148:ALA:HB3	2:MS:15:TYR:CE2	2.13	0.84
5:FA:27:ARG:HD2	5:DC:26:GLU:HG2	1.58	0.84
1:KD:53:TYR:CD1	1:IS:223:GLY:N	2.46	0.84
1:LD:369:PHE:CE1	1:BK:107:LEU:HD11	2.13	0.84
1:aE:71:ARG:NH2	1:AR:210:ASN:HD22	1.75	0.84
1:cE:137:ASP:OD1	1:CG:48:THR:HG23	1.78	0.84
1:LK:36:GLY:HA2	1:DP:121:TYR:HD1	1.40	0.84
1:JL:210:ASN:HD22	1:YR:71:ARG:NH2	1.75	0.84
5:DM:26:GLU:HG2	5:FO:27:ARG:HD2	1.58	0.84
1:BP:109:LEU:HD12	1:hR:105:GLU:C	2.01	0.84
1:BQ:137:ASP:OD1	1:gR:48:THR:HG23	1.78	0.84
2:H1:54:THR:HA	1:C6:62:LEU:HD12	0.91	0.84
1:I1:48:THR:HG23	1:UE:137:ASP:OD1	1.78	0.84
1:Q1:47:GLU:OE2	1:KG:22:LEU:CD2	2.25	0.84
1:S1:22:LEU:CD2	1:Q8:47:GLU:OE2	2.25	0.84
1:S1:137:ASP:OD1	1:Q8:48:THR:HG23	1.78	0.84
1:g1:210:ASN:HD22	1:CQ:71:ARG:NH2	1.75	0.84
1:I3:47:GLU:OE2	1:SL:22:LEU:CD2	2.25	0.84
1:I3:71:ARG:NH2	1:R8:210:ASN:HD22	1.75	0.84
1:I3:280:PHE:CE2	1:I3:320:ASP:HA	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C4:47:GLU:OE2	1:BG:22:LEU:CD2	2.25	0.84
1:C4:280:PHE:CE2	1:C4:320:ASP:HA	2.13	0.84
1:I4:280:PHE:CE2	1:I4:320:ASP:HA	2.13	0.84
1:Q4:280:PHE:CE2	1:Q4:320:ASP:HA	2.13	0.84
1:g4:105:GLU:HA	1:DK:369:PHE:HE2	0.75	0.84
1:g4:105:GLU:HG3	1:BK:111:ARG:NH2	1.93	0.84
1:Q6:148:ALA:HB3	2:NJ:15:TYR:CE2	2.13	0.84
1:S7:13:LEU:HD12	1:QR:45:MET:SD	2.15	0.84
1:S7:137:ASP:OD1	1:QR:48:THR:HG23	1.78	0.84
1:Y7:71:ARG:NH2	1:JR:210:ASN:HD22	1.75	0.84
1:i7:22:LEU:CD2	1:C8:47:GLU:OE2	2.25	0.84
1:I8:47:GLU:OE2	1:KR:22:LEU:CD2	2.25	0.84
1:Q8:280:PHE:CE2	1:Q8:320:ASP:HA	2.13	0.84
1:a8:137:ASP:OD1	1:bQ:48:THR:HG23	1.78	0.84
1:g8:280:PHE:CE2	1:g8:320:ASP:HA	2.13	0.84
5:EB:36:ALA:C	3:AM:194:ASN:OD1	2.21	0.84
5:FC:27:ARG:HD2	5:DH:26:GLU:HG2	1.58	0.84
1:AD:83:GLY:N	1:KK:142:PHE:O	2.10	0.84
1:DD:82:ILE:CD1	1:KS:144:THR:C	2.49	0.84
1:KD:58:ILE:HG21	1:KS:57:LYS:HD3	1.59	0.84
1:LD:28:ASP:HA	1:DK:304:GLN:NE2	1.92	0.84
1:LD:57:LYS:HE2	1:KK:61:THR:CG2	2.07	0.84
1:LD:139:ARG:HB2	1:DK:81:PHE:CZ	2.12	0.84
1:SE:208:LEU:HD13	1:SE:391:ILE:HD13	1.57	0.84
1:IG:280:PHE:CE2	1:IG:320:ASP:HA	2.13	0.84
1:QG:280:PHE:CE2	1:QG:320:ASP:HA	2.13	0.84
1:LK:25:PHE:CD1	1:BP:99:MET:O	2.30	0.84
1:LK:29:TYR:HH	1:DP:302:ASP:CB	1.71	0.84
1:YL:47:GLU:OE2	1:SR:22:LEU:CD2	2.25	0.84
1:R1:105:GLU:HB2	1:AS:109:LEU:HD13	1.57	0.83
1:I3:48:THR:HG23	1:SL:137:ASP:OD1	1.78	0.83
1:J3:210:ASN:HD22	1:Q8:71:ARG:NH2	1.75	0.83
1:C4:45:MET:SD	1:BG:13:LEU:HD12	2.15	0.83
1:B4:22:LEU:CD2	1:aE:47:GLU:OE2	2.25	0.83
1:K4:22:LEU:CD2	1:QL:47:GLU:OE2	2.25	0.83
1:X4:280:PHE:CE2	1:X4:320:ASP:HA	2.13	0.83
1:g4:123:ASN:HD21	1:CD:21:ALA:CB	1.87	0.83
1:h4:22:LEU:CD2	1:gG:47:GLU:OE2	2.25	0.83
1:C6:47:GLU:OE2	1:iG:22:LEU:CD2	2.25	0.83
1:Q6:137:ASP:OD2	1:CJ:49:PHE:HB2	1.76	0.83
1:C7:137:ASP:OD2	1:CK:49:PHE:HB2	1.76	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:148:ALA:HB3	2:NK:15:TYR:CE2	2.13	0.83
1:g8:29:TYR:CZ	1:KS:302:ASP:OD2	2.30	0.83
3:AC:36:LEU:C	1:AP:145:LEU:HG	1.99	0.83
1:YG:280:PHE:CE2	1:YG:320:ASP:HA	2.13	0.83
1:KJ:364:PHE:CE2	1:KP:108:MET:SD	2.71	0.83
1:LJ:36:GLY:HA2	1:CS:121:TYR:HD1	1.40	0.83
1:AK:310:THR:CG2	1:KP:27:HIS:CE1	2.01	0.83
1:X1:280:PHE:CE2	1:X1:320:ASP:HA	2.13	0.83
1:Q3:45:MET:SD	1:Z4:13:LEU:HD12	2.15	0.83
1:K6:22:LEU:CD2	1:CL:47:GLU:OE2	2.25	0.83
1:Q6:222:SER:OG	1:CS:53:TYR:CD1	2.26	0.83
1:g6:38:LYS:HD2	1:LP:222:SER:HA	1.58	0.83
1:C7:280:PHE:CE2	1:C7:320:ASP:HA	2.13	0.83
1:S8:13:LEU:HD12	1:IG:45:MET:SD	2.15	0.83
1:Y8:208:LEU:HD13	1:Y8:391:ILE:HD13	1.57	0.83
1:a8:22:LEU:CD2	1:bQ:47:GLU:OE2	2.25	0.83
1:g8:20:SER:OG	1:BS:47:GLU:HG2	1.77	0.83
5:E9:36:ALA:C	3:AB:194:ASN:OD1	2.21	0.83
5:CC:265:LEU:CD2	5:NH:231:ASN:OD1	2.20	0.83
5:EI:36:ALA:C	3:AN:194:ASN:OD1	2.21	0.83
1:C1:47:GLU:OE2	1:dQ:22:LEU:CD2	2.25	0.83
1:Z1:22:LEU:CD2	1:IR:47:GLU:OE2	2.25	0.83
1:h1:22:LEU:CD2	1:QG:47:GLU:OE2	2.25	0.83
3:A2:194:ASN:HD21	4:BA:3:ARG:CB	1.88	0.83
1:C3:280:PHE:CE2	1:C3:320:ASP:HA	2.13	0.83
1:S3:13:LEU:HD12	1:CR:45:MET:SD	2.15	0.83
1:C4:48:THR:HG23	1:BG:137:ASP:OD1	1.78	0.83
1:T4:153:LEU:HD23	2:GS:2:TYR:CD2	2.12	0.83
1:Q6:27:HIS:HB3	1:LJ:312:PRO:HD3	0.86	0.83
1:I7:47:GLU:OE2	1:iR:22:LEU:CD2	2.25	0.83
1:Q7:71:ARG:NH2	1:RQ:210:ASN:HD22	1.75	0.83
1:g7:208:LEU:HD13	1:g7:391:ILE:HD13	1.57	0.83
3:AA:112:ILE:CD1	2:MK:16:GLU:OE2	2.11	0.83
3:AC:29:ARG:NH1	1:AP:136:ASN:N	2.18	0.83
3:AC:194:ASN:HD21	4:BN:3:ARG:CB	1.88	0.83
1:AD:144:THR:HG22	3:AF:36:LEU:HD13	1.56	0.83
1:aE:208:LEU:HD13	1:aE:391:ILE:HD13	1.57	0.83
1:aE:280:PHE:CE2	1:aE:320:ASP:HA	2.13	0.83
1:KJ:137:ASP:OD2	1:LP:50:VAL:HG13	1.79	0.83
1:LJ:47:GLU:HB2	1:JS:22:LEU:CD2	2.03	0.83
2:MK:15:TYR:HB2	1:KP:149:THR:HG23	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IQ:280:PHE:CE2	1:IQ:320:ASP:HA	2.13	0.83
1:I1:248:SER:HG	1:JG:202:PHE:HD2	1.21	0.83
1:I1:280:PHE:CE2	1:I1:320:ASP:HA	2.13	0.83
2:M1:45:ILE:CG1	2:M1:46:HIS:N	2.36	0.83
2:W1:2:TYR:HB3	1:CS:150:ASN:OD1	1.77	0.83
1:Q4:47:GLU:OE2	1:KL:22:LEU:CD2	2.25	0.83
1:R4:105:GLU:N	1:BD:110:LYS:HZ1	1.74	0.83
1:g6:71:ARG:NH2	1:BE:210:ASN:HD22	1.75	0.83
1:C8:280:PHE:CE2	1:C8:320:ASP:HA	2.13	0.83
1:I8:280:PHE:CE2	1:I8:320:ASP:HA	2.13	0.83
3:A9:154:ILE:CA	1:AK:139:ARG:CZ	2.45	0.83
5:CA:265:LEU:CD2	5:NC:231:ASN:OD1	2.21	0.83
1:AD:144:THR:CG2	3:AF:36:LEU:CD1	2.56	0.83
1:BD:98:ASN:HD22	1:KS:30:SER:HB3	1.43	0.83
1:BD:99:MET:O	1:KS:25:PHE:CD1	2.30	0.83
1:DD:304:GLN:HE21	1:KS:28:ASP:CA	1.92	0.83
1:KD:142:PHE:O	1:IS:83:GLY:N	2.10	0.83
1:FE:48:THR:HB	1:BP:137:ASP:OD1	1.78	0.83
5:EF:140:ASP:HB3	5:CF:139:LYS:NZ	1.94	0.83
1:aR:259:PHE:O	1:aR:260:GLN:CB	2.23	0.83
1:X1:47:GLU:OE2	1:K8:22:LEU:CD2	2.25	0.83
1:f1:48:THR:HG23	1:B3:137:ASP:OD1	1.78	0.83
5:E2:25:ARG:HH12	5:D9:54:LYS:HD3	1.44	0.83
1:Q3:71:ARG:NH2	1:J8:210:ASN:HD22	1.75	0.83
2:l4:2:TYR:HB3	1:DK:150:ASN:OD1	1.77	0.83
3:A5:114:PHE:CE2	2:MJ:21:ASN:CG	2.57	0.83
5:D5:38:TYR:HB3	3:AC:202:ASN:HD21	1.40	0.83
1:Z6:210:ASN:HD22	1:KE:71:ARG:NH2	1.75	0.83
1:g6:280:PHE:CE2	1:g6:320:ASP:HA	2.13	0.83
1:C7:53:TYR:CD1	1:LK:223:GLY:HA2	2.13	0.83
2:E8:45:ILE:CG1	2:E8:46:HIS:N	2.36	0.83
5:DA:28:TYR:CE2	1:AK:140:PHE:HD2	1.56	0.83
1:AD:304:GLN:NE2	1:KK:28:ASP:HB2	1.90	0.83
1:LD:222:SER:HA	1:YG:38:LYS:HD2	1.58	0.83
1:FE:363:PRO:HG3	2:HP:9:SER:CB	2.08	0.83
1:ME:137:ASP:OD1	1:QQ:48:THR:HG23	1.78	0.83
5:NF:233:GLU:N	5:CM:265:LEU:HD23	1.94	0.83
5:EI:25:ARG:HH12	5:DO:54:LYS:HD3	1.44	0.83
1:KJ:20:SER:CB	1:LP:47:GLU:CG	2.01	0.83
1:LK:53:TYR:CD1	1:DP:222:SER:HB3	2.09	0.83
1:IL:45:MET:SD	1:KQ:13:LEU:HD12	2.15	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AM:112:ILE:HB	2:LS:19:ARG:H	0.66	0.83
1:QQ:280:PHE:CE2	1:QQ:320:ASP:HA	2.13	0.83
1:K1:137:ASP:OD1	1:Y6:48:THR:HG23	1.78	0.83
2:j1:45:ILE:CG1	2:j1:46:HIS:N	2.36	0.83
5:E2:64:TRP:CE3	4:BF:30:LEU:HB2	2.13	0.83
5:E2:140:ASP:HB3	5:C2:139:LYS:NZ	1.94	0.83
2:j4:11:MET:HG2	1:CD:133:LEU:HD22	1.54	0.83
5:E5:37:ASP:OD2	3:AH:197:VAL:CG2	2.25	0.83
1:Q6:14:VAL:N	1:CJ:45:MET:HE3	1.38	0.83
1:C7:57:LYS:CE	1:CK:143:GLN:HE22	1.92	0.83
1:Q7:45:MET:SD	1:aL:13:LEU:HD12	2.15	0.83
1:Y7:48:THR:HG23	1:SQ:137:ASP:OD1	1.78	0.83
1:B8:137:ASP:OD1	1:AE:48:THR:HG23	1.78	0.83
1:g8:13:LEU:O	1:BS:45:MET:CG	2.27	0.83
1:g8:27:HIS:HB3	1:KS:312:PRO:HD3	0.86	0.83
3:AC:194:ASN:OD1	5:EN:36:ALA:C	2.21	0.83
1:KD:137:ASP:OD2	1:KS:50:VAL:HG13	1.79	0.83
1:BE:105:GLU:CG	1:BJ:111:ARG:HH21	1.89	0.83
1:KE:280:PHE:CE2	1:KE:320:ASP:HA	2.13	0.83
1:aG:14:VAL:CG2	1:DK:14:VAL:HG11	2.05	0.83
1:aG:47:GLU:HB3	1:DK:20:SER:CB	2.09	0.83
3:AI:6:ARG:NH2	5:DM:52:LEU:HA	1.94	0.83
2:GJ:54:THR:OG1	2:MP:2:TYR:CB	2.25	0.83
1:KJ:22:LEU:CD2	1:LP:47:GLU:HB2	2.03	0.83
1:KJ:61:THR:CG2	1:LP:57:LYS:HE2	2.07	0.83
1:CK:31:LYS:CD	1:hR:316:VAL:HG23	2.07	0.83
1:LK:31:LYS:HG3	1:DP:314:GLY:C	2.02	0.83
1:IL:48:THR:HG23	1:KQ:137:ASP:OD1	1.78	0.83
1:YL:48:THR:HG23	1:SR:137:ASP:OD1	1.78	0.83
5:NM:233:GLU:N	5:CO:265:LEU:HD23	1.94	0.83
1:CR:280:PHE:CE2	1:CR:320:ASP:HA	2.13	0.83
1:IS:62:LEU:CG	1:JS:88:GLU:CG	2.56	0.83
1:R1:105:GLU:N	1:AS:110:LYS:HZ1	1.76	0.83
5:C2:265:LEU:HD23	5:N9:233:GLU:N	1.94	0.83
1:K3:13:LEU:HD12	1:I4:45:MET:SD	2.15	0.83
1:S3:137:ASP:OD1	1:CR:48:THR:HG23	1.78	0.83
3:A5:149:GLN:CD	1:AJ:145:LEU:O	2.21	0.83
5:C5:265:LEU:HD23	5:NI:233:GLU:N	1.94	0.83
1:Q6:139:ARG:HH11	1:LJ:81:PHE:HD2	1.22	0.83
1:g6:368:GLU:OE1	1:LP:130:LYS:HD2	1.79	0.83
1:i6:57:LYS:CD	1:DJ:143:GLN:CD	1.90	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:153:LEU:HD21	2:NK:4:GLY:HA3	1.58	0.83
1:g7:280:PHE:CE2	1:g7:320:ASP:HA	2.13	0.83
1:B8:22:LEU:CD2	1:AE:47:GLU:OE2	2.25	0.83
4:B9:3:ARG:CB	3:AB:194:ASN:HD21	1.88	0.83
3:AA:202:ASN:HD21	5:DN:38:TYR:HB3	1.40	0.83
3:AB:113:TYR:O	2:MD:21:ASN:CA	2.26	0.83
3:AB:114:PHE:CB	1:AD:360:LEU:HD21	2.08	0.83
5:EB:140:ASP:HB3	5:CB:139:LYS:NZ	1.94	0.83
1:DD:314:GLY:C	1:KS:31:LYS:HG3	2.02	0.83
1:SE:280:PHE:CE2	1:SE:320:ASP:HA	2.13	0.83
5:EF:36:ALA:C	3:AO:194:ASN:OD1	2.21	0.83
3:AH:112:ILE:H	2:MP:19:ARG:NH2	1.44	0.83
1:LJ:139:ARG:HB2	1:CS:81:PHE:CZ	2.12	0.83
1:KK:108:MET:SD	1:KP:364:PHE:CE2	2.71	0.83
1:IL:71:ARG:NH2	1:ZR:210:ASN:HD22	1.75	0.83
1:BQ:259:PHE:O	1:BQ:260:GLN:CB	2.23	0.83
1:X1:208:LEU:HD13	1:X1:391:ILE:HD13	1.57	0.83
1:f1:71:ARG:NH2	1:AQ:210:ASN:HD22	1.75	0.83
1:Q3:48:THR:HG23	1:Z4:137:ASP:OD1	1.78	0.83
5:E5:64:TRP:CE3	4:BH:30:LEU:HB2	2.13	0.83
1:S6:47:GLU:HB3	1:CS:20:SER:CB	2.09	0.83
1:g6:53:TYR:CD1	1:LP:223:GLY:HA2	2.13	0.83
1:C7:13:LEU:O	1:CK:45:MET:CG	2.27	0.83
2:M7:45:ILE:CG1	2:M7:46:HIS:N	2.36	0.83
1:Q7:280:PHE:CE2	1:Q7:320:ASP:HA	2.13	0.83
1:Y7:280:PHE:CE2	1:Y7:320:ASP:HA	2.13	0.83
3:A9:190:ASP:H	4:BA:251:TRP:HH2	1.27	0.83
5:EA:140:ASP:O	5:CA:143:LYS:HD3	1.79	0.83
5:CA:265:LEU:HD23	5:NC:233:GLU:N	1.94	0.83
1:KD:20:SER:CB	1:KS:47:GLU:CG	2.01	0.83
2:MD:15:TYR:CB	1:KK:149:THR:CG2	2.54	0.83
1:AJ:62:LEU:CG	1:KJ:88:GLU:CG	2.56	0.83
1:BJ:98:ASN:HD22	1:LP:30:SER:HB3	1.43	0.83
1:LJ:369:PHE:CE1	1:AS:107:LEU:HD11	2.13	0.83
1:LK:37:ASP:O	1:DP:119:LYS:HG2	1.77	0.83
5:DM:35:ARG:NH2	1:JS:111:ARG:NH1	2.26	0.83
5:EN:140:ASP:HB3	5:CN:139:LYS:NZ	1.94	0.83
1:QR:280:PHE:CE2	1:QR:320:ASP:HA	2.13	0.83
1:K1:22:LEU:CD2	1:Y6:47:GLU:OE2	2.25	0.83
1:Q1:280:PHE:CE2	1:Q1:320:ASP:HA	2.13	0.83
1:f1:47:GLU:OE2	1:B3:22:LEU:CD2	2.25	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T4:51:ASN:ND2	1:BS:116:MET:CE	2.34	0.83
5:E5:140:ASP:O	5:C5:143:LYS:HD3	1.79	0.83
5:N5:233:GLU:N	5:CN:265:LEU:HD23	1.94	0.83
1:Q6:280:PHE:CE2	1:Q6:320:ASP:HA	2.13	0.83
1:Y6:280:PHE:CE2	1:Y6:320:ASP:HA	2.13	0.83
5:D9:38:TYR:HB3	3:AF:202:ASN:HD21	1.40	0.83
1:LD:25:PHE:CD1	1:BK:99:MET:O	2.30	0.83
2:ND:4:GLY:HA3	1:YG:153:LEU:HD21	1.58	0.83
1:BE:123:ASN:HD21	1:CP:21:ALA:CB	1.87	0.83
5:EI:140:ASP:HB3	5:CI:139:LYS:NZ	1.94	0.83
1:DJ:314:GLY:C	1:LP:31:LYS:HG3	2.02	0.83
1:LJ:50:VAL:HG13	1:JS:137:ASP:OD2	1.79	0.83
1:LJ:57:LYS:HE2	1:JS:61:THR:CG2	2.07	0.83
1:BK:137:ASP:OD1	1:jR:48:THR:HB	1.78	0.83
1:LK:369:PHE:CE1	1:BP:107:LEU:HD11	2.13	0.83
3:AM:112:ILE:HG21	2:LS:19:ARG:N	1.92	0.83
6:LN:96:SER:O	2:MP:3:GLU:CD	2.21	0.83
5:EO:140:ASP:HB3	5:CO:139:LYS:NZ	1.94	0.83
2:W1:54:THR:HG22	2:NJ:1:MET:CE	2.09	0.83
1:Z1:137:ASP:OD1	1:IR:48:THR:HG23	1.78	0.83
1:C4:71:ARG:NH2	1:RG:210:ASN:HD22	1.75	0.83
2:U4:3:GLU:O	1:BS:153:LEU:HD13	1.77	0.83
3:A5:112:ILE:HG22	2:MJ:27:ASN:HD22	0.67	0.83
1:i6:47:GLU:HB3	1:DJ:20:SER:CB	2.09	0.83
1:Q8:302:ASP:CG	1:IG:29:TYR:OH	2.22	0.83
1:g8:33:TRP:N	1:KS:174:MET:CE	2.20	0.83
3:A9:63:ARG:O	1:AK:149:THR:CG2	2.11	0.83
3:AA:112:ILE:HD12	2:MK:16:GLU:HG3	1.56	0.83
3:AC:6:ARG:NH2	5:DN:52:LEU:HA	1.94	0.83
5:DC:25:ARG:HH21	1:DP:103:LYS:HA	0.69	0.83
1:AD:118:THR:HG22	1:KK:53:TYR:HB3	1.61	0.83
1:AD:223:GLY:N	1:KK:53:TYR:CD1	2.46	0.83
1:cE:22:LEU:CD2	1:CG:47:GLU:OE2	2.25	0.83
1:KJ:53:TYR:CD1	1:AP:223:GLY:N	2.46	0.83
1:LJ:31:LYS:HG3	1:CS:314:GLY:C	2.02	0.83
1:DK:261:ILE:HG13	1:DK:265:ASP:CG	2.04	0.83
1:IL:47:GLU:OE2	1:KQ:22:LEU:CD2	2.25	0.83
2:ML:45:ILE:CG1	2:ML:46:HIS:N	2.36	0.83
1:QL:280:PHE:CE2	1:QL:320:ASP:HA	2.13	0.83
1:R1:105:GLU:C	1:AS:109:LEU:HD12	2.01	0.82
3:A2:37:GLU:HG3	3:A9:150:TYR:HD2	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:302:ASP:CG	1:I4:29:TYR:OH	2.22	0.82
1:R4:210:ASN:HD22	1:g8:71:ARG:NH2	1.75	0.82
1:f4:48:THR:HG23	1:B6:137:ASP:OD1	1.78	0.82
1:i4:363:PRO:HG3	2:HD:9:SER:CB	2.08	0.82
5:D5:52:LEU:HA	3:AH:6:ARG:NH2	1.94	0.82
5:E5:36:ALA:C	3:AH:194:ASN:OD1	2.21	0.82
1:g6:372:VAL:HG21	2:NP:10:MET:HB2	1.61	0.82
1:C7:208:LEU:HD13	1:C7:391:ILE:HD13	1.57	0.82
1:i8:153:LEU:HB3	2:ED:2:TYR:HE2	1.44	0.82
3:AA:194:ASN:HD21	4:BH:3:ARG:CB	1.88	0.82
3:AC:114:PHE:CA	2:MP:51:GLN:CD	2.51	0.82
1:LD:34:THR:HG22	1:DK:382:LYS:O	1.79	0.82
1:LD:315:ALA:CA	1:YG:30:SER:C	2.46	0.82
2:MD:15:TYR:HB2	1:KK:149:THR:HG23	1.60	0.82
1:AE:280:PHE:CE2	1:AE:320:ASP:HA	2.13	0.82
1:BE:316:VAL:HG23	1:CP:31:LYS:HD3	1.61	0.82
5:EF:140:ASP:O	5:CF:143:LYS:HD3	1.79	0.82
1:aG:20:SER:HB2	1:DK:47:GLU:HB3	1.33	0.82
5:CI:265:LEU:HD23	5:NO:233:GLU:N	1.94	0.82
1:KJ:78:GLU:OE2	3:AN:81:LEU:CD1	0.53	0.82
1:LJ:369:PHE:HE2	1:AS:105:GLU:CA	1.92	0.82
1:LK:50:VAL:HG13	1:KP:137:ASP:OD2	1.79	0.82
2:EL:45:ILE:CG1	2:EL:46:HIS:N	2.36	0.82
1:YL:280:PHE:CE2	1:YL:320:ASP:HA	2.13	0.82
3:AO:29:ARG:CD	1:IS:136:ASN:ND2	2.42	0.82
1:IR:280:PHE:CE2	1:IR:320:ASP:HA	2.13	0.82
1:I1:29:TYR:OH	1:SE:302:ASP:CG	2.22	0.82
1:h1:137:ASP:OD1	1:QG:48:THR:HG23	1.78	0.82
3:A2:6:ARG:NH2	5:DA:52:LEU:HA	1.94	0.82
3:A2:150:TYR:HD2	3:AB:37:GLU:HG3	1.44	0.82
5:N2:233:GLU:N	5:CB:265:LEU:HD23	1.94	0.82
1:Q3:280:PHE:CE2	1:Q3:320:ASP:HA	2.13	0.82
1:S3:259:PHE:O	1:S3:260:GLN:CB	2.23	0.82
4:B5:3:ARG:CB	3:AH:194:ASN:HD21	1.88	0.82
1:h6:210:ASN:HD22	1:AE:71:ARG:NH2	1.75	0.82
1:Q7:29:TYR:OH	1:YL:302:ASP:CG	2.22	0.82
1:I8:48:THR:HG23	1:KR:137:ASP:OD1	1.78	0.82
3:A9:194:ASN:OD1	5:EC:36:ALA:C	2.21	0.82
5:EC:140:ASP:CG	5:CC:139:LYS:CE	2.37	0.82
1:BD:105:GLU:CA	1:KS:369:PHE:HE2	1.92	0.82
1:CD:143:GLN:HE22	1:YG:57:LYS:CE	1.92	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:377:HIS:CG	1:BP:370:ASP:OD2	2.33	0.82
5:DF:52:LEU:HA	3:AO:6:ARG:NH2	1.94	0.82
1:CG:280:PHE:CE2	1:CG:320:ASP:HA	2.13	0.82
3:AI:37:GLU:HG3	3:AO:150:TYR:HD2	1.44	0.82
1:AJ:223:GLY:N	1:JS:53:TYR:CD1	2.46	0.82
1:AJ:310:THR:CG2	1:JS:27:HIS:CE1	2.01	0.82
1:DJ:261:ILE:HG13	1:DJ:265:ASP:CG	2.04	0.82
1:AK:118:THR:HG22	1:KP:53:TYR:HB3	1.61	0.82
1:AK:223:GLY:N	1:KP:53:TYR:CD1	2.46	0.82
1:CK:116:MET:CE	1:jR:51:ASN:ND2	2.34	0.82
2:HK:2:TYR:CD2	1:jR:153:LEU:HD23	2.12	0.82
3:AN:202:ASN:HD21	5:DO:38:TYR:HB3	1.40	0.82
1:C1:29:TYR:OH	1:bQ:302:ASP:CG	2.22	0.82
1:B1:137:ASP:OD1	1:Y8:48:THR:HG23	1.78	0.82
1:Q1:29:TYR:OH	1:IG:302:ASP:CG	2.22	0.82
2:U1:3:GLU:O	1:CJ:153:LEU:CD1	2.27	0.82
1:f1:280:PHE:CE2	1:f1:320:ASP:HA	2.13	0.82
3:A2:194:ASN:OD1	5:EA:36:ALA:C	2.21	0.82
1:B4:137:ASP:OD1	1:aE:48:THR:HG23	1.78	0.82
1:Q4:48:THR:HG23	1:KL:137:ASP:OD1	1.78	0.82
1:Q4:302:ASP:CG	1:IQ:29:TYR:OH	2.22	0.82
1:R4:105:GLU:HG3	1:BD:111:ARG:NH2	1.93	0.82
1:C6:280:PHE:CE2	1:C6:320:ASP:HA	2.13	0.82
1:K6:137:ASP:OD1	1:CL:48:THR:HG23	1.78	0.82
1:Q6:57:LYS:HD2	1:CJ:143:GLN:HE21	1.45	0.82
1:S6:259:PHE:O	1:S6:260:GLN:CB	2.23	0.82
1:g6:30:SER:C	1:LP:315:ALA:CA	2.46	0.82
1:C7:27:HIS:N	1:AK:100:ASP:OD1	2.12	0.82
1:Q7:48:THR:HG23	1:aL:137:ASP:OD1	1.78	0.82
1:g7:29:TYR:HH	1:AE:302:ASP:CG	1.86	0.82
1:g7:302:ASP:CG	1:C8:29:TYR:OH	2.22	0.82
1:C8:302:ASP:CG	1:AE:29:TYR:OH	2.22	0.82
3:A9:37:GLU:HG3	3:AA:150:TYR:HD2	1.44	0.82
5:E9:25:ARG:HH12	5:DA:54:LYS:HD3	1.44	0.82
3:AA:190:ASP:H	4:BC:251:TRP:HH2	1.27	0.82
3:AA:194:ASN:OD1	5:EH:36:ALA:C	2.21	0.82
5:EA:10:TYR:CZ	5:EC:66:TYR:HA	2.15	0.82
5:DB:52:LEU:HA	3:AM:6:ARG:NH2	1.94	0.82
1:DD:362:PRO:HD2	1:KS:365:HIS:CE1	2.15	0.82
1:LD:31:LYS:HG3	1:DK:314:GLY:C	2.02	0.82
1:LD:130:LYS:HD2	1:YG:368:GLU:OE1	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CH:265:LEU:HD23	5:NN:233:GLU:N	1.94	0.82
4:BI:30:LEU:HB2	5:EM:64:TRP:CE3	2.14	0.82
1:LJ:55:PHE:HE2	1:JS:58:ILE:CB	1.85	0.82
1:LJ:57:LYS:HD3	1:JS:58:ILE:HG21	1.59	0.82
1:CK:153:LEU:CD1	2:kR:3:GLU:O	2.27	0.82
1:LK:34:THR:HG22	1:DP:382:LYS:O	1.79	0.82
5:EM:140:ASP:O	5:CM:143:LYS:HD3	1.79	0.82
5:EN:140:ASP:O	5:CN:143:LYS:HD3	1.79	0.82
1:DP:261:ILE:HG13	1:DP:265:ASP:CG	2.04	0.82
1:CQ:280:PHE:CE2	1:CQ:320:ASP:HA	2.13	0.82
1:YR:280:PHE:CE2	1:YR:320:ASP:HA	2.13	0.82
1:B1:22:LEU:CD2	1:Y8:47:GLU:OE2	2.25	0.82
1:I1:302:ASP:CG	1:Y6:29:TYR:OH	2.22	0.82
3:A2:202:ASN:HD21	5:DC:38:TYR:HB3	1.40	0.82
5:E2:66:TYR:HA	5:EB:10:TYR:CZ	2.15	0.82
1:C3:29:TYR:OH	1:QG:302:ASP:CG	2.22	0.82
1:Y3:377:HIS:CG	1:BK:370:ASP:OD2	2.33	0.82
1:I4:302:ASP:CG	1:QL:29:TYR:OH	2.22	0.82
1:h4:259:PHE:O	1:h4:260:GLN:CB	2.23	0.82
2:j4:3:GLU:O	1:CD:153:LEU:CD1	2.27	0.82
3:A5:65:ASN:CG	1:AJ:149:THR:CG2	2.52	0.82
1:C6:29:TYR:OH	1:gG:302:ASP:CG	2.22	0.82
1:Y6:71:ARG:NH2	1:LE:210:ASN:HD22	1.75	0.82
2:k7:45:ILE:CG1	2:k7:46:HIS:N	2.36	0.82
1:i8:20:SER:HB2	1:DD:47:GLU:HB3	1.33	0.82
1:j8:325:LYS:HB2	1:j8:325:LYS:NZ	1.95	0.82
3:A9:194:ASN:HD21	4:BC:3:ARG:CB	1.88	0.82
5:NB:233:GLU:N	5:CF:265:LEU:HD23	1.94	0.82
1:DD:222:SER:HB3	1:KS:53:TYR:CD1	2.09	0.82
1:KD:86:SER:O	1:KD:121:TYR:HB2	1.79	0.82
1:LD:37:ASP:O	1:DK:119:LYS:HG2	1.76	0.82
5:EH:140:ASP:O	5:CH:143:LYS:HD3	1.79	0.82
5:DI:52:LEU:HA	3:AN:6:ARG:NH2	1.94	0.82
1:DJ:261:ILE:CG1	1:DJ:265:ASP:OD1	2.27	0.82
1:LJ:143:GLN:C	1:CS:82:ILE:CG1	2.53	0.82
2:HK:9:SER:CB	1:jR:363:PRO:HG3	2.08	0.82
1:IL:280:PHE:CE2	1:IL:320:ASP:HA	2.13	0.82
1:YL:29:TYR:OH	1:QR:302:ASP:CG	2.22	0.82
1:KP:86:SER:O	1:KP:121:TYR:HB2	1.79	0.82
1:C1:71:ARG:NH2	1:A6:210:ASN:HD22	1.75	0.82
1:C1:280:PHE:CE2	1:C1:320:ASP:HA	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X1:48:THR:HG23	1:K8:137:ASP:OD1	1.78	0.82
3:A2:107:LEU:O	2:MD:7:MET:CG	2.27	0.82
5:E2:140:ASP:O	5:C2:143:LYS:HD3	1.79	0.82
1:D4:325:LYS:HB2	1:D4:325:LYS:NZ	1.95	0.82
1:S4:137:ASP:OD1	1:IQ:48:THR:HG23	1.78	0.82
1:f4:47:GLU:OE2	1:B6:22:LEU:CD2	2.25	0.82
1:a6:137:ASP:OD1	1:SE:48:THR:HG23	1.78	0.82
1:I7:280:PHE:CE2	1:I7:320:ASP:HA	2.13	0.82
1:Y7:29:TYR:OH	1:QQ:302:ASP:CG	2.22	0.82
1:Y8:280:PHE:CE2	1:Y8:320:ASP:HA	2.13	0.82
5:E9:140:ASP:CA	5:C9:139:LYS:CB	2.00	0.82
3:AC:37:GLU:HG3	3:AH:150:TYR:HD2	1.44	0.82
5:EC:25:ARG:HH12	5:DH:54:LYS:HD3	1.44	0.82
1:DD:82:ILE:HD11	1:KS:144:THR:H	1.37	0.82
2:ND:10:MET:HB2	1:YG:372:VAL:HG21	1.61	0.82
2:ND:15:TYR:CE2	1:YG:148:ALA:HB3	2.13	0.82
1:TG:325:LYS:HB2	1:TG:325:LYS:NZ	1.95	0.82
5:EH:10:TYR:CZ	5:EN:66:TYR:HA	2.14	0.82
1:LJ:30:SER:HB3	1:AS:98:ASN:HD22	1.43	0.82
1:LJ:365:HIS:CE1	1:CS:362:PRO:HD2	2.15	0.82
1:CK:31:LYS:HD3	1:hR:316:VAL:HG23	1.61	0.82
1:LK:144:THR:H	1:DP:82:ILE:HD11	1.38	0.82
2:UL:45:ILE:CG1	2:UL:46:HIS:N	2.36	0.82
3:AM:114:PHE:HA	2:LS:13:THR:HG1	1.00	0.82
1:gR:280:PHE:CE2	1:gR:320:ASP:HA	2.13	0.82
1:D1:325:LYS:HB2	1:D1:325:LYS:NZ	1.95	0.82
1:Z1:259:PHE:O	1:Z1:260:GLN:CB	2.23	0.82
1:C4:29:TYR:OH	1:CG:302:ASP:CG	2.22	0.82
1:L4:325:LYS:HB2	1:L4:325:LYS:NZ	1.95	0.82
1:X4:47:GLU:OE2	1:BR:22:LEU:CD2	2.25	0.82
1:a4:325:LYS:HB2	1:a4:325:LYS:NZ	1.95	0.82
1:I6:280:PHE:CE2	1:I6:320:ASP:HA	2.13	0.82
1:T6:325:LYS:HB2	1:T6:325:LYS:NZ	1.95	0.82
1:I7:29:TYR:OH	1:gR:302:ASP:CG	2.22	0.82
1:I7:48:THR:HG23	1:iR:137:ASP:OD1	1.78	0.82
1:Y7:302:ASP:CG	1:KE:29:TYR:OH	2.22	0.82
1:g8:27:HIS:N	1:IS:100:ASP:OD1	2.12	0.82
1:g8:30:SER:C	1:KS:315:ALA:CA	2.46	0.82
1:i8:16:LYS:O	1:DD:45:MET:CE	2.04	0.82
1:i8:144:THR:HA	1:BD:82:ILE:CD1	1.80	0.82
5:C9:265:LEU:HD23	5:NA:233:GLU:N	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:116:VAL:HA	2:MD:19:ARG:HD2	1.59	0.82
1:AD:43:ASN:C	5:DF:25:ARG:HE	1.82	0.82
1:AD:310:THR:CG2	1:KK:27:HIS:CE1	2.01	0.82
1:CD:45:MET:CE	1:YG:14:VAL:HB	2.03	0.82
1:KD:28:ASP:O	1:JS:98:ASN:CB	2.28	0.82
1:KD:98:ASN:CB	1:KK:28:ASP:O	2.28	0.82
1:LD:82:ILE:CG1	1:YG:143:GLN:O	2.20	0.82
1:bG:325:LYS:HB2	1:bG:325:LYS:NZ	1.95	0.82
1:gG:280:PHE:CE2	1:gG:320:ASP:HA	2.13	0.82
3:AI:190:ASP:H	4:BO:251:TRP:HH2	1.27	0.82
3:AI:194:ASN:OD1	5:EM:36:ALA:C	2.21	0.82
4:BI:33:TYR:HE1	5:EM:57:GLU:HB3	1.34	0.82
5:EI:10:TYR:CZ	5:EO:66:TYR:HA	2.14	0.82
1:LJ:28:ASP:CA	1:CS:304:GLN:HE21	1.92	0.82
2:HK:10:MET:SD	1:jR:365:HIS:HD2	1.95	0.82
1:KK:98:ASN:CB	1:KP:28:ASP:O	2.28	0.82
1:LK:14:VAL:C	1:KP:45:MET:HB3	1.85	0.82
4:BM:251:TRP:HH2	3:AO:190:ASP:H	1.27	0.82
5:EM:140:ASP:HB3	5:CM:139:LYS:NZ	1.94	0.82
1:YQ:377:HIS:CG	1:AS:370:ASP:OD2	2.33	0.82
2:ZQ:45:ILE:CG1	2:ZQ:46:HIS:N	2.36	0.82
1:bQ:280:PHE:CE2	1:bQ:320:ASP:HA	2.13	0.82
1:A1:210:ASN:HD22	1:C6:71:ARG:NH2	1.75	0.82
1:Q1:48:THR:HG23	1:KG:137:ASP:OD1	1.78	0.82
5:E2:140:ASP:CG	5:C2:139:LYS:CE	2.37	0.82
1:T4:325:LYS:HB2	1:T4:325:LYS:NZ	1.95	0.82
1:g4:105:GLU:CG	1:BK:111:ARG:HH21	1.89	0.82
3:A5:150:TYR:HD2	3:AN:37:GLU:HG3	1.44	0.82
1:D6:325:LYS:HB2	1:D6:325:LYS:NZ	1.95	0.82
1:I6:302:ASP:CG	1:CL:29:TYR:OH	2.22	0.82
1:Q6:54:LEU:CA	1:LJ:118:THR:HG21	2.02	0.82
1:Q6:372:VAL:HG21	2:NJ:10:MET:HB2	1.61	0.82
1:S6:153:LEU:HB3	2:DS:2:TYR:HE2	1.45	0.82
1:i6:144:THR:CA	1:BJ:82:ILE:HD11	1.83	0.82
1:g7:48:THR:HG23	1:CE:137:ASP:OD1	1.78	0.82
1:a8:259:PHE:O	1:a8:260:GLN:CB	2.23	0.82
1:i8:57:LYS:CD	1:DD:143:GLN:NE2	0.71	0.82
5:E9:10:TYR:CZ	5:EA:66:TYR:HA	2.14	0.82
3:AA:6:ARG:NH2	5:DH:52:LEU:HA	1.94	0.82
3:AB:150:TYR:CA	1:AD:145:LEU:O	2.17	0.82
5:CC:265:LEU:HD23	5:NH:233:GLU:N	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:143:GLN:HE21	1:YG:57:LYS:HD2	1.45	0.82
1:DD:382:LYS:O	1:KS:34:THR:HG22	1.79	0.82
1:FE:51:ASN:ND2	1:CP:116:MET:CE	2.34	0.82
2:WE:45:ILE:CG1	2:WE:46:HIS:N	2.36	0.82
1:LG:325:LYS:HB2	1:LG:325:LYS:NZ	1.95	0.82
1:AK:62:LEU:CG	1:KK:88:GLU:CG	2.56	0.82
1:CL:280:PHE:CE2	1:CL:320:ASP:HA	2.13	0.82
1:DP:261:ILE:CG1	1:DP:265:ASP:OD1	2.27	0.82
1:SR:259:PHE:O	1:SR:260:GLN:CB	2.23	0.82
1:TR:325:LYS:HB2	1:TR:325:LYS:NZ	1.95	0.82
1:CS:261:ILE:CG1	1:CS:265:ASP:OD1	2.27	0.82
5:E2:57:GLU:HA	4:BF:33:TYR:HH	1.44	0.82
1:C3:48:THR:HG23	1:SG:137:ASP:OD1	1.78	0.82
2:M4:45:ILE:CG1	2:M4:46:HIS:N	2.36	0.82
1:S4:259:PHE:O	1:S4:260:GLN:CB	2.23	0.82
1:T4:374:HIS:CE1	2:GS:9:SER:HG	1.96	0.82
1:f4:280:PHE:CE2	1:f4:320:ASP:HA	2.13	0.82
2:M6:45:ILE:CG1	2:M6:46:HIS:N	2.36	0.82
1:Q6:57:LYS:CE	1:CJ:143:GLN:HE22	1.92	0.82
1:g6:13:LEU:O	1:CP:45:MET:CG	2.27	0.82
1:C7:20:SER:OG	1:CK:47:GLU:HG2	1.77	0.82
1:B7:259:PHE:O	1:B7:260:GLN:CB	2.23	0.82
1:Y7:45:MET:SD	1:SQ:13:LEU:HD12	2.15	0.82
5:E9:64:TRP:CG	4:BB:30:LEU:CB	2.62	0.82
5:EA:140:ASP:HB3	5:CA:139:LYS:NZ	1.94	0.82
1:CD:45:MET:CG	1:YG:13:LEU:O	2.27	0.82
1:LD:45:MET:H	1:KK:14:VAL:HG22	0.66	0.82
1:FE:44:THR:HA	1:BP:17:SER:HB3	1.62	0.82
1:SG:259:PHE:O	1:SG:260:GLN:CB	2.23	0.82
1:aG:57:LYS:CD	1:DK:143:GLN:NE2	0.71	0.82
3:AH:37:GLU:HG3	3:AN:150:TYR:HD2	1.44	0.82
1:KJ:80:ASP:CG	3:AN:64:GLN:HA	2.04	0.82
1:KJ:152:ALA:HB2	2:MP:15:TYR:HE2	1.45	0.82
1:TL:325:LYS:HB2	1:TL:325:LYS:NZ	1.95	0.82
3:AM:112:ILE:HG23	2:LS:17:ASP:CB	1.90	0.82
1:T1:325:LYS:HB2	1:T1:325:LYS:NZ	1.95	0.82
5:E2:10:TYR:CZ	5:E9:66:TYR:HA	2.15	0.82
5:E2:64:TRP:CG	4:BF:30:LEU:CB	2.62	0.82
1:K4:137:ASP:OD1	1:QL:48:THR:HG23	1.78	0.82
1:K4:259:PHE:O	1:K4:260:GLN:CB	2.23	0.82
1:Q4:29:TYR:OH	1:IL:302:ASP:CG	2.22	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l4:55:GLY:HA3	2:ND:2:TYR:HB2	1.62	0.82
4:B5:251:TRP:HH2	3:AN:190:ASP:H	1.27	0.82
5:E5:64:TRP:CE2	4:BH:30:LEU:CB	2.62	0.82
1:Y6:302:ASP:CG	1:SE:29:TYR:OH	2.22	0.82
1:i6:144:THR:HA	1:BJ:82:ILE:CD1	1.80	0.82
1:I7:302:ASP:CG	1:CQ:29:TYR:OH	2.22	0.82
1:g8:54:LEU:CA	1:KS:118:THR:HG21	2.02	0.82
4:BC:30:LEU:CB	5:EN:64:TRP:CE2	2.62	0.82
1:AD:100:ASP:OD1	1:YG:27:HIS:N	2.12	0.82
1:KD:139:ARG:HB3	1:IS:81:PHE:CG	2.03	0.82
2:MD:2:TYR:HE2	1:KK:153:LEU:HD12	1.45	0.82
5:EH:25:ARG:HH12	5:DN:54:LYS:HD3	1.44	0.82
1:KJ:357:LYS:CE	3:AN:67:ASN:CG	2.51	0.82
2:MJ:15:TYR:HB2	1:JS:149:THR:HG23	1.60	0.82
1:AK:81:PHE:CG	1:KP:139:ARG:HB3	2.03	0.82
1:DK:261:ILE:CG1	1:DK:265:ASP:OD1	2.27	0.82
1:KK:86:SER:O	1:KK:121:TYR:HB2	1.79	0.82
1:LK:30:SER:HB3	1:BP:98:ASN:HD22	1.43	0.82
1:LK:45:MET:H	1:KP:14:VAL:HG22	0.66	0.82
1:T1:44:THR:HA	1:BJ:17:SER:HB3	1.62	0.82
1:f1:302:ASP:CG	1:QG:29:TYR:OH	2.22	0.82
2:U4:3:GLU:O	1:BS:153:LEU:CD1	2.27	0.82
4:B5:30:LEU:CB	5:EO:64:TRP:CG	2.62	0.82
1:L6:325:LYS:HB2	1:L6:325:LYS:NZ	1.95	0.82
1:g6:57:LYS:CE	1:CP:143:GLN:HE22	1.92	0.82
1:g6:137:ASP:OD2	1:CP:49:PHE:HB2	1.77	0.82
1:C7:368:GLU:OE1	1:LK:130:LYS:HD2	1.79	0.82
1:g7:29:TYR:OH	1:AE:302:ASP:CG	2.22	0.82
3:A9:158:GLU:OE2	1:AK:140:PHE:CD1	2.32	0.82
4:BC:32:PHE:CD2	5:FN:55:LEU:HD12	2.06	0.82
1:AD:43:ASN:CB	5:DF:25:ARG:CA	2.57	0.82
1:LD:365:HIS:CE1	1:DK:362:PRO:HD2	2.15	0.82
1:LD:369:PHE:HD2	1:BK:108:MET:HE3	1.41	0.82
1:LD:377:HIS:CE1	1:YG:367:PRO:O	2.33	0.82
2:EG:45:ILE:CG1	2:EG:46:HIS:N	2.36	0.82
2:MG:45:ILE:CG1	2:MG:46:HIS:N	2.36	0.82
1:BJ:105:GLU:CA	1:LP:369:PHE:HE2	1.92	0.82
1:KJ:86:SER:O	1:KJ:121:TYR:HB2	1.79	0.82
1:KJ:139:ARG:HB3	1:AP:81:PHE:CG	2.03	0.82
2:MJ:8:ARG:CZ	1:JS:374:HIS:CE1	2.63	0.82
5:DM:54:LYS:HD3	5:EO:25:ARG:HH12	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DP:369:PHE:HE2	1:hR:105:GLU:HA	0.76	0.82
1:R1:316:VAL:HG23	1:CJ:31:LYS:HD3	1.61	0.81
2:W1:55:GLY:HA3	2:NJ:2:TYR:HB2	1.62	0.81
4:B2:251:TRP:HH2	3:AB:190:ASP:H	1.27	0.81
1:K3:137:ASP:OD1	1:I4:48:THR:HG23	1.78	0.81
1:Q3:29:TYR:OH	1:X4:302:ASP:CG	2.22	0.81
1:b3:82:ILE:HD11	1:BD:145:LEU:CD2	2.10	0.81
1:T4:48:THR:HB	1:AS:137:ASP:OD1	1.78	0.81
2:l4:54:THR:HG22	2:ND:1:MET:CE	2.09	0.81
3:A5:194:ASN:OD1	5:EO:36:ALA:C	2.21	0.81
1:i6:153:LEU:HB3	2:EJ:2:TYR:HE2	1.44	0.81
1:Q7:302:ASP:CG	1:QR:29:TYR:OH	2.22	0.81
1:g8:57:LYS:HD2	1:BS:143:GLN:HE21	1.44	0.81
1:i8:47:GLU:HB3	1:DD:20:SER:CB	2.09	0.81
3:A9:6:ARG:NH2	5:DC:52:LEU:HA	1.94	0.81
3:A9:32:PHE:HZ	1:AK:139:ARG:HD3	1.44	0.81
3:A9:104:GLN:CB	1:KK:78:GLU:CD	2.53	0.81
4:B9:30:LEU:HB2	5:EC:64:TRP:CE3	2.13	0.81
1:DD:261:ILE:CG1	1:DD:265:ASP:OD1	2.28	0.81
1:KD:149:THR:HG23	2:LS:15:TYR:HB2	1.60	0.81
1:KD:365:HIS:NE2	1:IS:361:LYS:CE	2.32	0.81
1:LD:143:GLN:C	1:DK:82:ILE:CG1	2.53	0.81
1:LD:369:PHE:HE2	1:BK:105:GLU:CA	1.92	0.81
1:KE:302:ASP:CG	1:QQ:29:TYR:OH	2.22	0.81
1:dE:325:LYS:HB2	1:dE:325:LYS:NZ	1.95	0.81
1:KJ:53:TYR:HB3	1:AP:118:THR:HG22	1.61	0.81
1:LJ:34:THR:HG22	1:CS:382:LYS:O	1.79	0.81
1:LJ:45:MET:H	1:JS:14:VAL:HG22	0.66	0.81
1:LK:139:ARG:HB2	1:DP:81:PHE:CZ	2.12	0.81
1:CL:302:ASP:CG	1:YR:29:TYR:OH	2.22	0.81
5:EO:140:ASP:O	5:CO:143:LYS:HD3	1.79	0.81
1:jR:325:LYS:HB2	1:jR:325:LYS:NZ	1.95	0.81
5:E2:55:LEU:HD22	5:EB:21:ILE:HG22	1.62	0.81
1:Q3:302:ASP:CG	1:CR:29:TYR:OH	2.22	0.81
1:i4:48:THR:HB	1:BD:137:ASP:OD1	1.78	0.81
4:B5:33:TYR:HH	5:EO:57:GLU:HA	1.44	0.81
5:E5:10:TYR:CZ	5:EI:66:TYR:HA	2.15	0.81
1:B7:57:LYS:CD	1:DP:143:GLN:HE22	0.40	0.81
1:B7:153:LEU:HB3	2:EP:2:TYR:HE2	1.45	0.81
1:Y7:61:THR:HG22	1:JR:89:TYR:HE1	1.46	0.81
1:D8:325:LYS:HB2	1:D8:325:LYS:NZ	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b8:325:LYS:HB2	1:b8:325:LYS:NZ	1.95	0.81
5:E9:140:ASP:HB3	5:C9:139:LYS:NZ	1.94	0.81
3:AA:37:GLU:HG3	3:AC:150:TYR:HD2	1.44	0.81
5:DA:28:TYR:HD2	1:AK:137:ASP:OD1	1.62	0.81
5:EA:140:ASP:CA	5:CA:139:LYS:CB	2.00	0.81
3:AB:112:ILE:C	2:MD:23:ARG:HH22	1.87	0.81
5:EB:57:GLU:HB3	4:BM:33:TYR:HE1	1.34	0.81
1:KG:259:PHE:O	1:KG:260:GLN:CB	2.23	0.81
1:DJ:304:GLN:HE21	1:LP:28:ASP:CA	1.92	0.81
1:KJ:28:ASP:O	1:KP:98:ASN:CB	2.28	0.81
1:LJ:35:PHE:HE1	1:CS:384:ILE:HD13	1.38	0.81
3:AM:150:TYR:HD2	3:AO:37:GLU:HG3	1.44	0.81
5:NM:231:ASN:OD1	5:CO:265:LEU:CD2	2.21	0.81
3:AO:64:GLN:CA	1:IS:146:ALA:HA	2.09	0.81
1:L1:325:LYS:HB2	1:L1:325:LYS:NZ	1.95	0.81
1:R1:105:GLU:CG	1:AS:111:ARG:HH21	1.89	0.81
1:R1:202:PHE:HD2	1:Q6:248:SER:HG	1.25	0.81
1:f1:29:TYR:OH	1:C3:302:ASP:CG	2.22	0.81
5:D2:52:LEU:HA	3:AF:6:ARG:NH2	1.94	0.81
1:b3:377:HIS:CG	1:BD:370:ASP:OD2	2.33	0.81
1:Y4:89:TYR:HE1	1:Y8:61:THR:HG22	1.46	0.81
1:f4:61:THR:HG22	1:ZG:89:TYR:HE1	1.46	0.81
1:g4:310:THR:HG23	1:CD:27:HIS:HE1	1.45	0.81
1:g4:316:VAL:HG23	1:CD:31:LYS:HD3	1.61	0.81
1:i4:325:LYS:NZ	1:i4:325:LYS:HB2	1.95	0.81
3:A5:6:ARG:NH2	5:DO:52:LEU:HA	1.94	0.81
1:Q6:13:LEU:O	1:CJ:45:MET:CG	2.27	0.81
1:Q6:27:HIS:N	1:AJ:100:ASP:OD1	2.12	0.81
1:Q6:367:PRO:O	1:LJ:377:HIS:CE1	2.33	0.81
1:Q6:368:GLU:OE1	1:LJ:130:LYS:HD2	1.79	0.81
1:g6:27:HIS:N	1:AP:100:ASP:OD1	2.12	0.81
1:j6:325:LYS:HB2	1:j6:325:LYS:NZ	1.95	0.81
1:B7:20:SER:OG	1:DP:47:GLU:HB3	1.51	0.81
1:B7:47:GLU:HB3	1:DP:20:SER:CB	2.09	0.81
1:I7:81:PHE:HD2	1:CQ:139:ARG:HD2	1.25	0.81
1:S8:137:ASP:OD1	1:IG:48:THR:HG23	1.78	0.81
5:D9:52:LEU:HA	3:AB:6:ARG:NH2	1.94	0.81
5:E9:64:TRP:CE2	4:BB:30:LEU:CB	2.62	0.81
3:AA:113:TYR:CG	2:MK:7:MET:HG3	2.15	0.81
5:EA:21:ILE:HG22	5:EC:55:LEU:HD22	1.62	0.81
3:AB:150:TYR:HD2	3:AF:37:GLU:HG3	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:54:LYS:HD3	5:EF:25:ARG:HH12	1.44	0.81
4:BC:30:LEU:CB	5:EN:64:TRP:CG	2.62	0.81
1:AD:144:THR:CG2	3:AF:36:LEU:HD11	2.09	0.81
1:CD:47:GLU:HG2	1:YG:20:SER:CA	2.10	0.81
1:DD:81:PHE:CZ	1:KS:139:ARG:HB2	2.12	0.81
1:KD:374:HIS:NE2	2:LS:8:ARG:NH1	2.28	0.81
1:LD:25:PHE:CE1	1:DK:126:VAL:HG12	1.93	0.81
1:LD:50:VAL:HG13	1:KK:137:ASP:OD2	1.79	0.81
2:ND:11:MET:HB3	1:YG:133:LEU:HD13	1.62	0.81
1:BE:310:THR:HG23	1:CP:27:HIS:HE1	1.45	0.81
1:NE:325:LYS:NZ	1:NE:325:LYS:HB2	1.95	0.81
3:AF:150:TYR:HD2	3:AM:37:GLU:HG3	1.45	0.81
5:DF:38:TYR:HB3	3:AI:202:ASN:HD21	1.40	0.81
1:aG:57:LYS:CD	1:DK:143:GLN:CD	1.90	0.81
1:aG:144:THR:CA	1:BK:82:ILE:HD12	2.03	0.81
1:aG:153:LEU:HB3	2:EK:2:TYR:HE2	1.45	0.81
3:AH:150:TYR:HE1	1:AP:148:ALA:HB3	1.44	0.81
5:EH:140:ASP:HB3	5:CH:139:LYS:NZ	1.94	0.81
5:EI:140:ASP:CG	5:CI:139:LYS:CE	2.37	0.81
1:BJ:370:ASP:OD2	1:gL:377:HIS:CG	2.33	0.81
1:BK:17:SER:HB3	1:jR:44:THR:HA	1.62	0.81
1:CK:27:HIS:HE1	1:hR:310:THR:HG23	1.45	0.81
1:LK:369:PHE:HE2	1:BP:105:GLU:CA	1.92	0.81
2:MK:15:TYR:HE2	1:KP:152:ALA:HB2	1.45	0.81
1:CL:81:PHE:HD2	1:YR:139:ARG:HD2	1.25	0.81
1:IL:29:TYR:OH	1:IQ:302:ASP:CG	2.22	0.81
5:EM:66:TYR:HA	5:EO:10:TYR:CZ	2.14	0.81
1:X1:29:TYR:OH	1:I8:302:ASP:CG	2.22	0.81
4:B2:186:THR:HG22	4:B9:153:THR:HA	1.63	0.81
5:E2:36:ALA:C	3:AF:194:ASN:OD1	2.21	0.81
5:E2:64:TRP:CE2	4:BF:30:LEU:CB	2.62	0.81
1:Y3:82:ILE:HD11	1:BK:145:LEU:CD2	2.10	0.81
1:g6:27:HIS:HB3	1:LP:312:PRO:HD3	0.86	0.81
1:g6:148:ALA:HB3	2:NP:15:TYR:CE2	2.13	0.81
5:C9:266:THR:CB	5:NA:230:SER:CA	2.49	0.81
4:BB:153:THR:HA	4:BF:186:THR:HG22	1.63	0.81
5:EB:64:TRP:CG	4:BM:30:LEU:CB	2.62	0.81
5:EB:66:TYR:HA	5:EF:10:TYR:CZ	2.14	0.81
5:EC:140:ASP:O	5:CC:143:LYS:HD3	1.79	0.81
1:KD:53:TYR:HB3	1:IS:118:THR:HG22	1.61	0.81
1:cE:259:PHE:O	1:cE:260:GLN:CB	2.23	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EF:64:TRP:CG	4:BO:30:LEU:CB	2.62	0.81
5:EF:66:TYR:HA	5:EM:10:TYR:CZ	2.15	0.81
1:AG:89:TYR:HE1	1:YL:61:THR:HG22	1.46	0.81
1:jG:325:LYS:HB2	1:jG:325:LYS:NZ	1.95	0.81
1:AJ:118:THR:HG22	1:JS:53:TYR:HB3	1.61	0.81
1:LJ:369:PHE:HD2	1:AS:108:MET:HE3	1.41	0.81
1:BL:259:PHE:O	1:BL:260:GLN:CB	2.23	0.81
1:LL:325:LYS:HB2	1:LL:325:LYS:NZ	1.95	0.81
1:bR:325:LYS:HB2	1:bR:325:LYS:NZ	1.95	0.81
5:E5:140:ASP:HB3	5:C5:139:LYS:NZ	1.94	0.81
1:I6:29:TYR:OH	1:YR:302:ASP:CG	2.22	0.81
1:Q6:20:SER:CA	1:CJ:47:GLU:HG2	2.10	0.81
1:Z6:89:TYR:HE1	1:KE:61:THR:HG22	1.46	0.81
1:C7:14:VAL:HB	1:CK:45:MET:CE	2.03	0.81
1:K7:259:PHE:O	1:K7:260:GLN:CB	2.23	0.81
1:g8:20:SER:CA	1:BS:47:GLU:HG2	2.10	0.81
3:AC:29:ARG:HD2	1:AP:136:ASN:C	1.61	0.81
1:DD:261:ILE:HG13	1:DD:265:ASP:CG	2.04	0.81
1:LD:53:TYR:CD1	1:DK:222:SER:HB3	2.09	0.81
2:HE:3:GLU:O	1:CP:153:LEU:CD1	2.27	0.81
4:BI:186:THR:HG22	4:BO:153:THR:HA	1.63	0.81
1:BJ:145:LEU:CD2	1:gL:82:ILE:HD11	2.10	0.81
1:DJ:81:PHE:CZ	1:LP:139:ARG:HB2	2.12	0.81
1:DJ:82:ILE:CG1	1:LP:143:GLN:C	2.53	0.81
1:DJ:382:LYS:O	1:LP:34:THR:HG22	1.79	0.81
1:LK:14:VAL:O	1:KP:45:MET:CG	2.10	0.81
1:LK:365:HIS:CE1	1:DP:362:PRO:HD2	2.15	0.81
1:DQ:325:LYS:HB2	1:DQ:325:LYS:NZ	1.95	0.81
1:eQ:325:LYS:HB2	1:eQ:325:LYS:NZ	1.95	0.81
1:J1:89:TYR:HE1	1:IG:61:THR:HG22	1.46	0.81
1:T1:48:THR:HB	1:BJ:137:ASP:OD1	1.78	0.81
1:T1:365:HIS:HD2	2:HJ:10:MET:SD	1.95	0.81
4:B2:153:THR:HA	4:BB:186:THR:HG22	1.63	0.81
2:c3:38:GLU:N	2:c3:38:GLU:OE2	2.14	0.81
1:R4:310:THR:HG23	1:BS:27:HIS:HE1	1.45	0.81
1:f4:29:TYR:OH	1:C6:302:ASP:CG	2.22	0.81
5:E5:66:TYR:HA	5:EN:10:TYR:CZ	2.15	0.81
1:Q6:133:LEU:HD13	2:NJ:11:MET:HB3	1.62	0.81
1:C7:133:LEU:HD13	2:NK:11:MET:HB3	1.62	0.81
1:D7:325:LYS:HB2	1:D7:325:LYS:NZ	1.95	0.81
1:Q7:61:THR:HG22	1:RQ:89:TYR:HE1	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k7:38:GLU:N	2:k7:38:GLU:OE2	2.14	0.81
1:Y8:302:ASP:CG	1:bQ:29:TYR:OH	2.22	0.81
5:E9:57:GLU:HB3	4:BB:33:TYR:HE1	1.34	0.81
5:EC:140:ASP:HB3	5:CC:139:LYS:NZ	1.94	0.81
1:DD:82:ILE:CG1	1:KS:143:GLN:C	2.53	0.81
1:DE:109:LEU:O	1:LP:105:GLU:CD	2.13	0.81
1:BE:105:GLU:HG3	1:BJ:111:ARG:NH2	1.93	0.81
1:FE:374:HIS:HE1	2:HP:9:SER:CB	1.94	0.81
1:aE:302:ASP:CG	1:CG:29:TYR:OH	2.22	0.81
2:eE:38:GLU:N	2:eE:38:GLU:OE2	2.14	0.81
1:DG:325:LYS:HB2	1:DG:325:LYS:NZ	1.95	0.81
2:UG:38:GLU:N	2:UG:38:GLU:OE2	2.14	0.81
5:EI:140:ASP:O	5:CI:143:LYS:HD3	1.79	0.81
1:DJ:314:GLY:O	1:LP:31:LYS:HG2	1.80	0.81
1:DJ:362:PRO:HD2	1:LP:365:HIS:CE1	2.15	0.81
1:KJ:98:ASN:CB	1:JS:28:ASP:O	2.28	0.81
1:LK:143:GLN:CA	1:DP:82:ILE:CD1	2.55	0.81
2:MK:15:TYR:CB	1:KP:149:THR:CG2	2.54	0.81
1:CQ:302:ASP:CG	1:gR:29:TYR:OH	2.22	0.81
1:JS:86:SER:O	1:JS:121:TYR:HB2	1.79	0.81
1:C1:302:ASP:CG	1:Y8:29:TYR:OH	2.22	0.81
1:X1:302:ASP:CG	1:IR:29:TYR:OH	2.22	0.81
1:i1:325:LYS:HB2	1:i1:325:LYS:NZ	1.95	0.81
4:B2:3:ARG:CB	3:AF:194:ASN:HD21	1.88	0.81
2:c3:45:ILE:CG1	2:c3:46:HIS:N	2.36	0.81
1:A4:89:TYR:HE1	1:QG:61:THR:HG22	1.46	0.81
2:W4:54:THR:HG22	2:MS:1:MET:CE	2.09	0.81
3:A5:6:ARG:O	5:DO:23:LYS:O	1.99	0.81
1:g6:61:THR:HG22	1:BE:89:TYR:HE1	1.46	0.81
1:g6:143:GLN:O	1:LP:82:ILE:HG12	1.63	0.81
2:E7:45:ILE:CG1	2:E7:46:HIS:N	2.36	0.81
1:I8:29:TYR:OH	1:IR:302:ASP:CG	2.22	0.81
1:g8:57:LYS:CE	1:BS:143:GLN:HE22	1.92	0.81
1:i8:57:LYS:CD	1:DD:143:GLN:HE22	0.40	0.81
4:BA:186:THR:HG22	4:BC:153:THR:HA	1.63	0.81
4:BC:186:THR:HG22	4:BH:153:THR:HA	1.63	0.81
1:KD:374:HIS:CE1	2:LS:8:ARG:CZ	2.63	0.81
2:MD:8:ARG:CZ	1:KK:374:HIS:CE1	2.63	0.81
2:WE:38:GLU:N	2:WE:38:GLU:OE2	2.14	0.81
1:aE:71:ARG:NH2	1:AR:210:ASN:ND2	2.29	0.81
3:AH:112:ILE:HG23	2:MP:20:LEU:CD2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AI:81:LEU:CD1	1:JS:359:MET:CE	2.58	0.81
1:BK:265:ASP:OD2	2:FK:41:TYR:CD1	2.34	0.81
1:JL:89:TYR:HE1	1:YR:61:THR:HG22	1.46	0.81
3:AO:32:PHE:CG	1:IS:139:ARG:NH2	2.40	0.81
1:YQ:325:LYS:HB2	1:YQ:325:LYS:NZ	1.95	0.81
2:ER:38:GLU:N	2:ER:38:GLU:OE2	2.14	0.81
2:b1:45:ILE:CG1	2:b1:46:HIS:N	2.36	0.81
1:g1:89:TYR:HE1	1:CQ:61:THR:HG22	1.46	0.81
3:A2:197:VAL:CG2	5:EA:37:ASP:OD2	2.25	0.81
1:I4:61:THR:HG22	1:A8:89:TYR:HE1	1.46	0.81
1:f4:302:ASP:CG	1:gG:29:TYR:OH	2.22	0.81
4:B5:30:LEU:HB2	5:EO:64:TRP:CE3	2.14	0.81
1:Y6:302:ASP:CG	1:SE:29:TYR:HH	1.87	0.81
2:c6:38:GLU:N	2:c6:38:GLU:OE2	2.14	0.81
2:k6:38:GLU:OE2	2:k6:38:GLU:N	2.14	0.81
1:C7:53:TYR:CG	1:LK:223:GLY:HA3	2.16	0.81
1:C7:372:VAL:HG21	2:NK:10:MET:HB2	1.61	0.81
2:M7:38:GLU:N	2:M7:38:GLU:OE2	2.14	0.81
2:E8:38:GLU:N	2:E8:38:GLU:OE2	2.14	0.81
1:g8:367:PRO:O	1:KS:377:HIS:CE1	2.33	0.81
1:g8:372:VAL:HG21	2:MS:10:MET:HB2	1.61	0.81
3:AA:33:ASN:CB	1:AP:54:LEU:CB	2.59	0.81
1:LD:223:GLY:HA3	1:YG:53:TYR:CG	2.16	0.81
2:OE:38:GLU:OE2	2:OE:38:GLU:N	2.14	0.81
4:BF:153:THR:HA	4:BM:186:THR:HG22	1.63	0.81
1:DJ:119:LYS:HZ3	1:LP:38:LYS:CG	1.90	0.81
2:MJ:8:ARG:NH1	1:JS:374:HIS:NE2	2.28	0.81
2:EL:38:GLU:OE2	2:EL:38:GLU:N	2.14	0.81
1:IL:61:THR:HG22	1:ZR:89:TYR:HE1	1.46	0.81
3:AO:66:ILE:CG2	2:LS:54:THR:CG2	2.40	0.81
2:M1:38:GLU:N	2:M1:38:GLU:OE2	2.14	0.81
1:Q1:302:ASP:CG	1:Q8:29:TYR:OH	2.22	0.81
1:X1:61:THR:HG22	1:J6:89:TYR:HE1	1.46	0.81
1:a1:325:LYS:HB2	1:a1:325:LYS:NZ	1.95	0.81
1:T3:325:LYS:NZ	1:T3:325:LYS:HB2	1.95	0.81
1:Q4:61:THR:HG22	1:h8:89:TYR:HE1	1.46	0.81
2:W4:55:GLY:HA3	2:MS:2:TYR:HB2	1.62	0.81
1:Y4:85:TYR:HH	1:Y8:46:PHE:HD1	1.27	0.81
1:g4:89:TYR:HE1	1:YG:61:THR:HG22	1.46	0.81
5:D5:54:LYS:HD3	5:EN:25:ARG:HH12	1.44	0.81
2:M6:38:GLU:N	2:M6:38:GLU:OE2	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b6:325:LYS:HB2	1:b6:325:LYS:NZ	1.95	0.81
1:R7:89:TYR:HE1	1:QQ:61:THR:HG22	1.46	0.81
1:g8:368:GLU:OE1	1:KS:130:LYS:HD2	1.79	0.81
3:A9:6:ARG:O	5:DC:23:LYS:O	1.99	0.81
3:A9:104:GLN:N	1:KK:78:GLU:OE2	0.66	0.81
5:E9:140:ASP:O	5:C9:143:LYS:HD3	1.79	0.81
3:AC:155:GLU:HB2	1:AP:58:ILE:CG1	2.10	0.81
3:AC:190:ASP:H	4:BH:251:TRP:HH2	1.27	0.81
1:DE:82:ILE:HD11	1:BP:145:LEU:CD2	2.10	0.81
1:SE:61:THR:HG22	1:JQ:89:TYR:HE1	1.46	0.81
5:DF:23:LYS:O	3:AO:6:ARG:O	1.99	0.81
3:AH:151:ASN:CA	1:AP:135:ASN:CG	2.41	0.81
2:MJ:15:TYR:HE2	1:JS:152:ALA:HB2	1.45	0.81
1:CK:81:PHE:HZ	1:jR:136:ASN:O	1.64	0.81
1:YQ:82:ILE:HD11	1:AS:145:LEU:CD2	2.10	0.81
2:MR:38:GLU:N	2:MR:38:GLU:OE2	2.14	0.81
1:A3:89:TYR:HE1	1:g7:61:THR:HG22	1.46	0.81
2:U3:38:GLU:OE2	2:U3:38:GLU:N	2.14	0.81
1:X4:61:THR:HG22	1:Z8:89:TYR:HE1	1.46	0.81
1:g6:53:TYR:CG	1:LP:223:GLY:HA3	2.16	0.81
1:C7:61:THR:HG22	1:hR:89:TYR:HE1	1.46	0.81
1:C7:367:PRO:O	1:LK:377:HIS:CE1	2.33	0.81
1:B7:57:LYS:CD	1:DP:143:GLN:NE2	0.71	0.81
1:B7:367:PRO:CG	1:BP:375:TRP:CE3	2.62	0.81
5:D9:23:LYS:O	3:AB:6:ARG:O	1.99	0.81
4:BA:30:LEU:HB2	5:EH:64:TRP:CE3	2.13	0.81
5:EC:10:TYR:CZ	5:EH:66:TYR:HA	2.15	0.81
1:KD:14:VAL:HG22	1:KS:45:MET:H	0.66	0.81
5:EI:64:TRP:CE3	4:BN:30:LEU:HB2	2.13	0.81
1:KJ:14:VAL:HG22	1:LP:45:MET:H	0.66	0.81
2:MK:2:TYR:CD2	1:KP:153:LEU:CD1	2.55	0.81
2:NK:2:TYR:HB2	2:mR:55:GLY:HA3	1.62	0.81
2:cL:38:GLU:N	2:cL:38:GLU:OE2	2.14	0.81
1:C1:71:ARG:NH2	1:A6:210:ASN:ND2	2.29	0.80
1:A1:210:ASN:ND2	1:C6:71:ARG:NH2	2.29	0.80
2:b1:38:GLU:OE2	2:b1:38:GLU:N	2.14	0.80
1:f1:61:THR:HG22	1:AQ:89:TYR:HE1	1.46	0.80
1:I3:29:TYR:OH	1:QL:302:ASP:CG	2.22	0.80
1:X4:29:TYR:OH	1:CR:302:ASP:CG	2.22	0.80
1:f4:46:PHE:HD1	1:ZG:85:TYR:HH	1.27	0.80
2:U6:38:GLU:N	2:U6:38:GLU:OE2	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y6:208:LEU:HD11	1:Y6:391:ILE:HD13	1.45	0.80
1:g6:367:PRO:O	1:LP:377:HIS:CE1	2.33	0.80
2:E7:38:GLU:OE2	2:E7:38:GLU:N	2.14	0.80
2:M8:38:GLU:N	2:M8:38:GLU:OE2	2.14	0.80
1:g8:368:GLU:CD	1:KS:130:LYS:HD2	2.06	0.80
2:k8:38:GLU:N	2:k8:38:GLU:OE2	2.14	0.80
5:EB:140:ASP:O	5:CB:143:LYS:HD3	1.79	0.80
3:AC:6:ARG:O	5:DN:23:LYS:O	1.99	0.80
1:AD:58:ILE:HG13	3:AF:154:ILE:HG22	1.62	0.80
2:MD:51:GLN:HG3	3:AF:114:PHE:HZ	1.46	0.80
1:aG:21:ALA:HB3	1:DK:47:GLU:O	1.81	0.80
1:hG:89:TYR:HE1	1:CL:61:THR:HG22	1.46	0.80
5:CH:265:LEU:CG	5:NN:231:ASN:HB2	2.11	0.80
3:AI:81:LEU:HD11	1:JS:359:MET:SD	2.20	0.80
3:AI:112:ILE:HD12	2:MJ:6:ASN:CB	1.77	0.80
1:LK:31:LYS:HG2	1:DP:314:GLY:O	1.80	0.80
2:ER:45:ILE:CG1	2:ER:46:HIS:N	2.36	0.80
2:cR:38:GLU:OE2	2:cR:38:GLU:N	2.14	0.80
1:T1:136:ASN:O	1:CJ:81:PHE:HZ	1.64	0.80
1:X1:302:ASP:CG	1:IR:29:TYR:HH	1.89	0.80
3:A2:107:LEU:C	2:MD:7:MET:HE3	2.02	0.80
5:E2:37:ASP:OD2	3:AF:197:VAL:CG2	2.25	0.80
5:E2:140:ASP:CA	5:C2:139:LYS:CB	2.00	0.80
5:E2:140:ASP:HB3	5:C2:139:LYS:HE2	0.91	0.80
5:C2:265:LEU:CG	5:N9:231:ASN:HB2	2.11	0.80
2:E3:38:GLU:N	2:E3:38:GLU:OE2	2.14	0.80
2:Z3:38:GLU:N	2:Z3:38:GLU:OE2	2.14	0.80
1:C4:302:ASP:CG	1:aE:29:TYR:OH	2.22	0.80
2:E4:38:GLU:OE2	2:E4:38:GLU:N	2.14	0.80
1:R4:109:LEU:HD13	1:IS:106:GLU:CA	2.10	0.80
1:R4:316:VAL:HG23	1:BS:31:LYS:HD3	1.61	0.80
5:N5:231:ASN:HB2	5:CN:265:LEU:CG	2.11	0.80
1:g6:368:GLU:CD	1:LP:130:LYS:HD2	2.06	0.80
1:i6:21:ALA:HB3	1:DJ:47:GLU:O	1.81	0.80
1:I7:61:THR:HG22	1:cQ:89:TYR:HE1	1.46	0.80
2:U7:38:GLU:N	2:U7:38:GLU:OE2	2.14	0.80
3:AC:114:PHE:CB	2:MP:51:GLN:CD	2.49	0.80
1:AD:140:PHE:HA	3:AF:29:ARG:HD3	0.81	0.80
1:DD:316:VAL:CG2	1:KS:31:LYS:HA	2.10	0.80
1:FE:325:LYS:HB2	1:FE:325:LYS:NZ	1.95	0.80
1:aG:144:THR:HA	1:BK:82:ILE:CD1	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:53:TYR:O	1:hR:118:THR:OG1	1.99	0.80
2:MK:8:ARG:NH1	1:KP:374:HIS:NE2	2.28	0.80
2:MK:8:ARG:CZ	1:KP:374:HIS:CE1	2.63	0.80
2:NK:1:MET:CE	2:mR:54:THR:HG22	2.09	0.80
1:BP:265:ASP:OD2	2:FP:41:TYR:CD1	2.34	0.80
2:EQ:38:GLU:N	2:EQ:38:GLU:OE2	2.14	0.80
2:MQ:38:GLU:OE2	2:MQ:38:GLU:N	2.14	0.80
2:UQ:38:GLU:N	2:UQ:38:GLU:OE2	2.14	0.80
1:DR:325:LYS:HB2	1:DR:325:LYS:NZ	1.95	0.80
2:UR:38:GLU:N	2:UR:38:GLU:OE2	2.14	0.80
1:I1:300:TYR:HA	1:JG:115:ARG:HH22	1.47	0.80
1:f1:302:ASP:OD2	1:QG:29:TYR:CZ	2.35	0.80
1:Q3:300:TYR:HA	1:J8:115:ARG:HH22	1.47	0.80
1:J4:115:ARG:HH22	1:C8:300:TYR:HA	1.47	0.80
1:Q4:29:TYR:CZ	1:IL:302:ASP:OD2	2.35	0.80
1:R4:105:GLU:C	1:BD:109:LEU:HD12	2.01	0.80
1:T4:136:ASN:O	1:BS:81:PHE:HZ	1.64	0.80
1:g4:115:ARG:HH22	1:YG:300:TYR:HA	1.47	0.80
5:D5:23:LYS:O	3:AH:6:ARG:O	1.99	0.80
1:S6:57:LYS:CD	1:CS:143:GLN:NE2	0.71	0.80
1:C7:31:LYS:CG	1:LK:314:GLY:C	2.52	0.80
1:C7:71:ARG:NH2	1:hR:210:ASN:ND2	2.29	0.80
1:I7:302:ASP:OD2	1:CQ:29:TYR:CZ	2.35	0.80
1:L8:325:LYS:HB2	1:L8:325:LYS:NZ	1.95	0.80
1:g8:143:GLN:O	1:KS:82:ILE:HG12	1.63	0.80
3:A9:158:GLU:OE2	1:AK:140:PHE:HE1	1.58	0.80
1:DD:314:GLY:C	1:KS:31:LYS:HG2	2.07	0.80
1:BE:118:THR:OG1	1:CP:53:TYR:O	1.99	0.80
1:aE:61:THR:HG22	1:AR:89:TYR:HE1	1.46	0.80
5:NF:230:SER:CA	5:CM:266:THR:CB	2.49	0.80
5:NF:231:ASN:HB2	5:CM:265:LEU:CG	2.11	0.80
2:EG:38:GLU:N	2:EG:38:GLU:OE2	2.14	0.80
1:aG:57:LYS:CD	1:DK:143:GLN:HE22	0.40	0.80
1:LK:28:ASP:CA	1:DP:304:GLN:HE21	1.92	0.80
2:hL:38:GLU:N	2:hL:38:GLU:OE2	2.14	0.80
2:ZQ:38:GLU:N	2:ZQ:38:GLU:OE2	2.14	0.80
1:LR:325:LYS:HB2	1:LR:325:LYS:NZ	1.95	0.80
1:AS:265:ASP:OD2	2:ES:41:TYR:CD1	2.34	0.80
1:CS:261:ILE:HG13	1:CS:265:ASP:CG	2.04	0.80
1:C1:29:TYR:CZ	1:bQ:302:ASP:OD2	2.35	0.80
1:C1:300:TYR:HA	1:A6:115:ARG:HH22	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:115:ARG:HH22	1:C6:300:TYR:HA	1.47	0.80
1:I1:29:TYR:CZ	1:SE:302:ASP:OD2	2.35	0.80
1:Y1:115:ARG:HH22	1:I6:300:TYR:HA	1.47	0.80
2:M3:38:GLU:N	2:M3:38:GLU:OE2	2.14	0.80
1:Q3:302:ASP:OD2	1:CR:29:TYR:CZ	2.35	0.80
1:b3:325:LYS:HB2	1:b3:325:LYS:NZ	1.95	0.80
1:X4:300:TYR:HA	1:Z8:115:ARG:HH22	1.47	0.80
1:i4:374:HIS:HE1	2:HD:9:SER:CB	1.94	0.80
3:A5:37:GLU:HG3	3:AI:150:TYR:HD2	1.44	0.80
5:E5:25:ARG:HH12	5:DI:54:LYS:HD3	1.44	0.80
1:C6:29:TYR:CZ	1:gG:302:ASP:OD2	2.35	0.80
1:S6:21:ALA:HB3	1:CS:47:GLU:O	1.81	0.80
1:g7:302:ASP:OD2	1:C8:29:TYR:CZ	2.35	0.80
1:j7:325:LYS:HB2	1:j7:325:LYS:NZ	1.95	0.80
1:g8:133:LEU:HD13	2:MS:11:MET:HB3	1.62	0.80
3:A9:153:ASP:C	1:AK:145:LEU:CG	2.48	0.80
1:DD:314:GLY:O	1:KS:31:LYS:CB	2.30	0.80
1:KD:58:ILE:CB	1:KS:55:PHE:HE2	1.86	0.80
1:VE:325:LYS:HB2	1:VE:325:LYS:NZ	1.95	0.80
2:cG:38:GLU:OE2	2:cG:38:GLU:N	2.14	0.80
1:AJ:304:GLN:HE21	1:JS:28:ASP:CB	1.94	0.80
1:KJ:22:LEU:CA	1:LP:47:GLU:OE1	2.27	0.80
1:CL:302:ASP:OD2	1:YR:29:TYR:CZ	2.35	0.80
1:gL:325:LYS:HB2	1:gL:325:LYS:NZ	1.95	0.80
1:Y1:89:TYR:HE1	1:I6:61:THR:HG22	1.46	0.80
1:f1:208:LEU:HD11	1:f1:391:ILE:HD13	1.46	0.80
1:C3:300:TYR:HA	1:h7:115:ARG:HH22	1.47	0.80
1:I3:61:THR:HG22	1:R8:89:TYR:HE1	1.46	0.80
1:Q3:29:TYR:CZ	1:X4:302:ASP:OD2	2.35	0.80
2:M4:38:GLU:N	2:M4:38:GLU:OE2	2.14	0.80
1:R4:89:TYR:HE1	1:g8:61:THR:HG22	1.46	0.80
1:T4:44:THR:HA	1:AS:17:SER:HB3	1.62	0.80
2:b4:38:GLU:N	2:b4:38:GLU:OE2	2.14	0.80
1:A7:115:ARG:HH22	1:gR:300:TYR:HA	1.47	0.80
1:B7:14:VAL:CG2	1:DP:14:VAL:HG11	2.05	0.80
1:Q7:29:TYR:CZ	1:YL:302:ASP:OD2	2.35	0.80
2:U8:38:GLU:N	2:U8:38:GLU:OE2	2.14	0.80
3:AA:6:ARG:O	5:DH:23:LYS:O	1.99	0.80
1:AD:58:ILE:HD11	3:AF:154:ILE:O	1.82	0.80
1:TE:89:TYR:HE1	1:IQ:61:THR:HG22	1.46	0.80
1:CG:61:THR:HG22	1:ZL:89:TYR:HE1	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MG:38:GLU:N	2:MG:38:GLU:OE2	2.14	0.80
3:AI:32:PHE:CE2	1:IS:54:LEU:CA	2.65	0.80
3:AI:104:GLN:CG	2:MJ:19:ARG:HG2	2.10	0.80
1:BJ:363:PRO:HG2	2:iL:9:SER:HB3	1.64	0.80
1:KJ:149:THR:HG23	2:MP:15:TYR:HB2	1.60	0.80
1:KJ:374:HIS:NE2	2:MP:8:ARG:NH1	2.28	0.80
3:AO:64:GLN:CG	1:IS:149:THR:N	2.37	0.80
1:J1:115:ARG:HH22	1:IG:300:TYR:HA	1.47	0.80
1:R1:115:ARG:HH22	1:Q6:300:TYR:HA	1.47	0.80
1:T1:30:SER:C	1:CJ:315:ALA:CA	2.55	0.80
1:T1:367:PRO:HD2	1:LJ:108:MET:CE	2.12	0.80
5:E2:21:ILE:HG22	5:E9:55:LEU:HD22	1.62	0.80
1:C3:61:THR:HG22	1:h7:89:TYR:HE1	1.46	0.80
1:Y3:325:LYS:HB2	1:Y3:325:LYS:NZ	1.95	0.80
1:I4:300:TYR:HA	1:A8:115:ARG:HH22	1.47	0.80
1:R4:105:GLU:CA	1:BD:109:LEU:CD1	2.60	0.80
1:g4:105:GLU:N	1:BK:110:LYS:HZ1	1.74	0.80
1:g6:20:SER:CA	1:CP:47:GLU:HG2	2.10	0.80
1:g6:367:PRO:HG2	1:LP:375:TRP:CZ2	2.17	0.80
1:C7:47:GLU:OE2	1:CK:22:LEU:CD2	2.30	0.80
1:L7:325:LYS:HB2	1:L7:325:LYS:NZ	1.95	0.80
1:T7:325:LYS:HB2	1:T7:325:LYS:NZ	1.95	0.80
4:B9:32:PHE:CD2	5:FC:55:LEU:HD12	2.06	0.80
5:CC:265:LEU:CG	5:NH:231:ASN:HB2	2.12	0.80
1:CD:45:MET:HE3	1:YG:14:VAL:N	1.38	0.80
1:LD:28:ASP:CA	1:DK:304:GLN:HE21	1.92	0.80
1:LD:375:TRP:CZ2	1:YG:367:PRO:HG2	2.17	0.80
1:DE:325:LYS:HB2	1:DE:325:LYS:NZ	1.95	0.80
1:AE:208:LEU:HD11	1:AE:391:ILE:HD13	1.45	0.80
2:JE:54:THR:HG22	2:NP:1:MET:CE	2.09	0.80
2:JE:55:GLY:HA3	2:NP:2:TYR:HB2	1.62	0.80
1:TE:115:ARG:HH22	1:IQ:300:TYR:HA	1.47	0.80
2:HK:9:SER:CB	1:jR:374:HIS:HE1	1.94	0.80
1:LK:25:PHE:CE1	1:DP:126:VAL:HG12	1.93	0.80
1:DL:325:LYS:HB2	1:DL:325:LYS:NZ	1.95	0.80
1:LQ:325:LYS:HB2	1:LQ:325:LYS:NZ	1.95	0.80
2:aQ:9:SER:HB3	1:AS:363:PRO:HG2	1.64	0.80
1:iR:259:PHE:O	1:iR:260:GLN:CB	2.23	0.80
3:A2:64:GLN:HG2	1:KK:80:ASP:CA	2.11	0.80
1:J3:89:TYR:HE1	1:Q8:61:THR:HG22	1.46	0.80
1:C4:61:THR:HG22	1:RG:89:TYR:HE1	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i4:29:TYR:C	1:LD:98:ASN:ND2	2.40	0.80
1:K6:259:PHE:O	1:K6:260:GLN:CB	2.23	0.80
1:Y6:302:ASP:OD2	1:SE:29:TYR:CZ	2.35	0.80
1:i6:47:GLU:HG3	1:DJ:22:LEU:HB2	1.64	0.80
1:C7:47:GLU:CD	1:CK:22:LEU:CD2	2.55	0.80
1:C7:300:TYR:HA	1:hR:115:ARG:HH22	1.47	0.80
1:A7:89:TYR:HE1	1:gR:61:THR:HG22	1.46	0.80
1:b7:325:LYS:HB2	1:b7:325:LYS:NZ	1.95	0.80
2:c7:38:GLU:N	2:c7:38:GLU:OE2	2.14	0.80
1:g7:29:TYR:CZ	1:AE:302:ASP:OD2	2.35	0.80
1:Q8:302:ASP:OD2	1:IG:29:TYR:CZ	2.35	0.80
1:Y8:302:ASP:OD2	1:bQ:29:TYR:CZ	2.35	0.80
3:A9:197:VAL:CG2	5:EC:37:ASP:OD2	2.25	0.80
5:C9:265:LEU:HD22	5:NA:231:ASN:CB	2.12	0.80
1:FE:30:SER:C	1:CP:315:ALA:CA	2.55	0.80
4:BF:251:TRP:HH2	3:AM:190:ASP:H	1.27	0.80
5:NF:231:ASN:CB	5:CM:265:LEU:HD22	2.12	0.80
1:CG:208:LEU:HD11	1:CG:391:ILE:HD13	1.46	0.80
2:kG:38:GLU:N	2:kG:38:GLU:OE2	2.14	0.80
3:AH:190:ASP:H	4:BN:251:TRP:HH2	1.27	0.80
5:DI:23:LYS:O	3:AN:6:ARG:O	1.99	0.80
5:CI:265:LEU:CG	5:NO:231:ASN:HB2	2.11	0.80
1:BJ:265:ASP:OD2	2:FJ:41:TYR:CD1	2.34	0.80
1:KJ:374:HIS:CE1	2:MP:8:ARG:CZ	2.63	0.80
1:LK:143:GLN:C	1:DP:82:ILE:CG1	2.53	0.80
1:RL:115:ARG:HH22	1:QR:300:TYR:HA	1.47	0.80
1:bL:325:LYS:HB2	1:bL:325:LYS:NZ	1.95	0.80
3:AM:112:ILE:CD1	2:LS:17:ASP:OD2	2.27	0.80
1:BP:110:LYS:HZ1	1:hR:105:GLU:N	1.78	0.80
1:R1:105:GLU:CA	1:AS:109:LEU:CD1	2.60	0.80
1:X1:81:PHE:HD2	1:IR:139:ARG:HD2	1.25	0.80
1:X1:300:TYR:HA	1:J6:115:ARG:HH22	1.47	0.80
1:D3:325:LYS:HB2	1:D3:325:LYS:NZ	1.95	0.80
1:I3:302:ASP:OD2	1:I4:29:TYR:CZ	2.35	0.80
2:d3:9:SER:HB3	1:BD:363:PRO:HG2	1.64	0.80
1:T4:374:HIS:HE1	2:GS:9:SER:CB	1.94	0.80
1:f4:302:ASP:OD2	1:gG:29:TYR:CZ	2.35	0.80
4:B5:153:THR:HA	4:BN:186:THR:HG22	1.63	0.80
5:N5:231:ASN:CB	5:CN:265:LEU:CD1	2.14	0.80
5:N5:231:ASN:CB	5:CN:265:LEU:HD22	2.12	0.80
1:Q6:53:TYR:CG	1:LJ:223:GLY:HA3	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i6:57:LYS:CD	1:DJ:143:GLN:NE2	0.71	0.80
1:B7:57:LYS:HD3	1:DP:143:GLN:HE22	1.05	0.80
1:R7:347:ILE:C	1:R7:348:ASN:HD22	1.90	0.80
1:Y7:29:TYR:CZ	1:QQ:302:ASP:OD2	2.35	0.80
1:Y7:300:TYR:HA	1:JR:115:ARG:HH22	1.47	0.80
1:g8:47:GLU:CD	1:BS:22:LEU:CD2	2.55	0.80
1:g8:47:GLU:OE2	1:BS:22:LEU:CD2	2.30	0.80
2:EE:38:GLU:N	2:EE:38:GLU:OE2	2.14	0.80
2:GE:9:SER:HB3	1:BP:363:PRO:HG2	1.64	0.80
1:FE:144:THR:O	1:CP:82:ILE:CD1	2.12	0.80
1:aE:302:ASP:OD2	1:CG:29:TYR:CZ	2.35	0.80
1:bE:89:TYR:HE1	1:CR:61:THR:HG22	1.46	0.80
5:DF:54:LYS:HD3	5:EM:25:ARG:HH12	1.44	0.80
5:EH:21:ILE:HG22	5:EN:55:LEU:HD22	1.62	0.80
5:CH:265:LEU:HD22	5:NN:231:ASN:CB	2.12	0.80
1:DJ:314:GLY:O	1:LP:31:LYS:CB	2.30	0.80
1:LJ:25:PHE:CG	1:AS:99:MET:O	2.35	0.80
1:LK:31:LYS:HA	1:DP:316:VAL:CG2	2.10	0.80
1:LK:108:MET:SD	1:jR:366:ASN:HA	2.22	0.80
1:QL:300:TYR:HA	1:RR:115:ARG:HH22	1.47	0.80
1:BP:111:ARG:NH2	1:hR:105:GLU:HG3	1.93	0.80
1:TQ:325:LYS:HB2	1:TQ:325:LYS:NZ	1.95	0.80
1:cQ:347:ILE:C	1:cQ:348:ASN:HD22	1.90	0.80
1:f1:300:TYR:HA	1:AQ:115:ARG:HH22	1.47	0.80
2:j1:38:GLU:N	2:j1:38:GLU:OE2	2.14	0.80
3:A2:190:ASP:H	4:B9:251:TRP:HH2	1.27	0.80
1:i4:44:THR:HA	1:BD:17:SER:HB3	1.62	0.80
3:A5:197:VAL:CG2	5:EO:37:ASP:OD2	2.25	0.80
1:g8:14:VAL:HB	1:BS:45:MET:CE	2.03	0.80
5:E9:64:TRP:CE3	4:BB:30:LEU:HB2	2.13	0.80
5:EB:55:LEU:HD22	5:EF:21:ILE:HG22	1.62	0.80
4:BC:30:LEU:HB2	5:EN:64:TRP:CE3	2.14	0.80
1:FE:38:LYS:CD	1:CP:220:ARG:O	2.30	0.80
5:EF:64:TRP:CE2	4:BO:30:LEU:CB	2.62	0.80
5:EF:64:TRP:CE3	4:BO:30:LEU:HB2	2.13	0.80
1:AG:347:ILE:C	1:AG:348:ASN:HD22	1.90	0.80
1:hG:347:ILE:C	1:hG:348:ASN:HD22	1.90	0.80
1:LK:31:LYS:CB	1:DP:314:GLY:O	2.30	0.80
1:QL:208:LEU:HD11	1:QL:391:ILE:HD13	1.46	0.80
5:NM:231:ASN:CB	5:CO:265:LEU:HD22	2.12	0.80
2:fQ:38:GLU:OE2	2:fQ:38:GLU:N	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q1:208:LEU:HD11	1:Q1:391:ILE:HD13	1.46	0.80
1:Q1:300:TYR:HA	1:R6:115:ARG:HH22	1.47	0.80
1:A3:347:ILE:C	1:A3:348:ASN:HD22	1.90	0.80
1:R4:210:ASN:ND2	1:g8:71:ARG:NH2	2.29	0.80
1:Y4:347:ILE:C	1:Y4:348:ASN:HD22	1.90	0.80
1:I6:302:ASP:OD2	1:CL:29:TYR:CZ	2.35	0.80
1:Q6:367:PRO:HG2	1:LJ:375:TRP:CZ2	2.17	0.80
1:Q6:368:GLU:CD	1:LJ:130:LYS:HD2	2.06	0.80
1:g6:133:LEU:HD13	2:NP:11:MET:HB3	1.62	0.80
1:C7:20:SER:CA	1:CK:47:GLU:HG2	2.10	0.80
1:B7:57:LYS:CB	1:DP:143:GLN:HE21	1.95	0.80
1:I7:29:TYR:CZ	1:gR:302:ASP:OD2	2.35	0.80
2:c8:38:GLU:N	2:c8:38:GLU:OE2	2.14	0.80
1:g8:14:VAL:N	1:BS:45:MET:HE3	1.38	0.80
4:BA:30:LEU:CB	5:EH:64:TRP:CE2	2.62	0.80
5:CA:265:LEU:HD22	5:NC:231:ASN:CB	2.12	0.80
2:MD:8:ARG:NH1	1:KK:374:HIS:NE2	2.28	0.80
1:ZG:347:ILE:C	1:ZG:348:ASN:HD22	1.90	0.80
1:IL:208:LEU:HD11	1:IL:391:ILE:HD13	1.46	0.80
1:IL:300:TYR:HA	1:ZR:115:ARG:HH22	1.47	0.80
1:BP:109:LEU:CD1	1:hR:105:GLU:CA	2.59	0.80
1:JQ:347:ILE:C	1:JQ:348:ASN:HD22	1.90	0.80
1:J1:347:ILE:C	1:J1:348:ASN:HD22	1.90	0.79
1:R1:89:TYR:HE1	1:Q6:61:THR:HG22	1.46	0.79
1:R1:310:THR:HG23	1:CJ:27:HIS:HE1	1.45	0.79
1:X1:302:ASP:OD2	1:IR:29:TYR:CZ	2.35	0.79
3:A2:107:LEU:CA	2:MD:7:MET:HE2	2.10	0.79
1:Q3:208:LEU:HD11	1:Q3:391:ILE:HD13	1.45	0.79
1:C4:29:TYR:CZ	1:CG:302:ASP:OD2	2.35	0.79
1:T4:30:SER:C	1:BS:315:ALA:CA	2.55	0.79
1:i4:366:ASN:HA	1:LD:108:MET:SD	2.22	0.79
3:A5:149:GLN:NE2	1:AJ:149:THR:CG2	2.45	0.79
5:E5:55:LEU:HD22	5:EN:21:ILE:HG22	1.62	0.79
1:Q6:27:HIS:O	1:AJ:98:ASN:ND2	2.16	0.79
1:h6:89:TYR:HE1	1:AE:61:THR:HG22	1.46	0.79
1:B7:21:ALA:HB3	1:DP:47:GLU:O	1.81	0.79
1:Z7:347:ILE:C	1:Z7:348:ASN:HD22	1.90	0.79
1:A8:347:ILE:C	1:A8:348:ASN:HD22	1.90	0.79
1:J8:347:ILE:C	1:J8:348:ASN:HD22	1.90	0.79
3:A9:194:ASN:CG	5:EC:36:ALA:CA	2.53	0.79
3:AB:150:TYR:HA	1:AD:148:ALA:HB3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:NB:231:ASN:CB	5:CF:265:LEU:HD22	2.12	0.79
5:DC:25:ARG:NH2	1:DP:102:SER:O	2.14	0.79
1:LD:130:LYS:HD2	1:YG:368:GLU:CD	2.06	0.79
1:FE:44:THR:OG1	1:BP:14:VAL:O	2.00	0.79
1:aG:13:LEU:C	1:DK:45:MET:HG2	2.07	0.79
1:aG:57:LYS:CB	1:DK:143:GLN:HE21	1.95	0.79
5:EI:64:TRP:CE2	4:BN:30:LEU:CB	2.62	0.79
1:DJ:375:TRP:HE3	1:LP:367:PRO:HG2	1.47	0.79
2:ML:38:GLU:N	2:ML:38:GLU:OE2	2.14	0.79
1:QL:61:THR:HG22	1:RR:89:TYR:HE1	1.46	0.79
1:Q1:61:THR:HG22	1:R6:89:TYR:HE1	1.46	0.79
1:X1:29:TYR:CZ	1:I8:302:ASP:OD2	2.35	0.79
1:Y1:347:ILE:C	1:Y1:348:ASN:HD22	1.90	0.79
3:A2:108:THR:CB	2:MD:7:MET:CE	2.60	0.79
1:L3:325:LYS:HB2	1:L3:325:LYS:NZ	1.95	0.79
1:C4:71:ARG:NH2	1:RG:210:ASN:ND2	2.29	0.79
1:C4:302:ASP:OD2	1:aE:29:TYR:CZ	2.35	0.79
1:T4:367:PRO:HD2	1:KS:108:MET:CE	2.12	0.79
1:X4:29:TYR:CZ	1:CR:302:ASP:OD2	2.35	0.79
1:i4:30:SER:C	1:CD:315:ALA:CA	2.55	0.79
1:Q6:47:GLU:OE2	1:CJ:22:LEU:CD2	2.30	0.79
1:Y6:61:THR:HG22	1:LE:89:TYR:HE1	1.46	0.79
1:C7:27:HIS:O	1:AK:98:ASN:ND2	2.16	0.79
1:A7:347:ILE:C	1:A7:348:ASN:HD22	1.90	0.79
1:Q7:302:ASP:OD2	1:QR:29:TYR:CZ	2.35	0.79
1:R7:108:MET:CE	1:Y7:364:PHE:HZ	1.90	0.79
1:g8:53:TYR:CG	1:KS:223:GLY:HA3	2.16	0.79
1:i8:13:LEU:C	1:DD:45:MET:SD	2.63	0.79
1:i8:21:ALA:HB3	1:DD:47:GLU:O	1.81	0.79
4:B9:30:LEU:CB	5:EC:64:TRP:CG	2.62	0.79
3:AA:112:ILE:C	2:MK:13:THR:HB	2.06	0.79
3:AB:111:ASP:C	2:MD:23:ARG:NH2	2.39	0.79
1:BD:265:ASP:OD2	2:FD:41:TYR:CD1	2.34	0.79
1:AG:115:ARG:HH22	1:YL:300:TYR:HA	1.47	0.79
1:BJ:105:GLU:CA	1:LP:369:PHE:CE2	2.66	0.79
1:LK:31:LYS:HG2	1:DP:314:GLY:C	2.07	0.79
1:RL:89:TYR:HE1	1:QR:61:THR:HG22	1.46	0.79
5:NM:231:ASN:HB2	5:CO:265:LEU:CG	2.11	0.79
2:E1:38:GLU:N	2:E1:38:GLU:OE2	2.14	0.79
3:A2:106:ARG:C	2:MD:7:MET:CG	2.55	0.79
4:B2:30:LEU:CB	5:EA:64:TRP:CG	2.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D2:52:LEU:CA	3:AF:6:ARG:NH2	2.45	0.79
1:I3:139:ARG:HD2	1:QL:81:PHE:HD2	1.25	0.79
2:X3:32:ILE:HD11	1:I8:74:TRP:CZ3	2.18	0.79
1:T4:38:LYS:CD	1:BS:220:ARG:O	2.30	0.79
1:i4:367:PRO:HD2	1:LD:108:MET:CE	2.12	0.79
5:C5:265:LEU:HD22	5:NI:231:ASN:CB	2.12	0.79
1:J6:347:ILE:C	1:J6:348:ASN:HD22	1.90	0.79
1:h6:115:ARG:HH22	1:AE:300:TYR:HA	1.47	0.79
1:i6:57:LYS:CD	1:DJ:143:GLN:HE22	0.40	0.79
1:C7:14:VAL:N	1:CK:45:MET:HE3	1.38	0.79
1:BD:290:ASN:CG	1:BD:325:LYS:HZ1	1.91	0.79
1:DD:82:ILE:CD1	1:KS:143:GLN:CA	2.55	0.79
1:KD:153:LEU:HD12	2:LS:2:TYR:HE2	1.44	0.79
1:FE:136:ASN:O	1:CP:81:PHE:HZ	1.64	0.79
1:KE:302:ASP:OD2	1:QQ:29:TYR:CZ	2.35	0.79
5:DF:52:LEU:CA	3:AO:6:ARG:NH2	2.45	0.79
5:EF:37:ASP:OD2	3:AO:197:VAL:CG2	2.25	0.79
5:NF:231:ASN:CB	5:CM:265:LEU:CD1	2.14	0.79
2:UG:45:ILE:CG1	2:UG:46:HIS:N	2.36	0.79
1:KJ:27:HIS:CE1	1:AP:310:THR:CG2	2.01	0.79
1:LJ:31:LYS:CB	1:CS:314:GLY:O	2.30	0.79
1:LJ:31:LYS:HG2	1:CS:314:GLY:C	2.07	0.79
1:LK:108:MET:CE	1:jR:367:PRO:HD2	2.12	0.79
1:R1:82:ILE:CD1	1:CJ:142:PHE:HB2	2.08	0.79
1:R1:347:ILE:C	1:R1:348:ASN:HD22	1.90	0.79
1:T1:374:HIS:HE1	2:HJ:9:SER:CB	1.94	0.79
2:W1:11:MET:HG3	1:CS:133:LEU:CB	2.13	0.79
1:g1:108:MET:CE	1:gR:364:PHE:HZ	1.90	0.79
1:Q4:302:ASP:OD2	1:IQ:29:TYR:CZ	2.35	0.79
1:Q6:47:GLU:CD	1:CJ:22:LEU:CD2	2.55	0.79
1:S6:13:LEU:C	1:CS:45:MET:HG2	2.07	0.79
1:g6:47:GLU:OE2	1:CP:22:LEU:CD2	2.30	0.79
1:C7:368:GLU:CD	1:LK:130:LYS:HD2	2.06	0.79
1:B7:13:LEU:C	1:DP:45:MET:HG2	2.07	0.79
1:R7:115:ARG:HH22	1:QQ:300:TYR:HA	1.47	0.79
1:T8:325:LYS:HB2	1:T8:325:LYS:NZ	1.95	0.79
1:i8:47:GLU:HG3	1:DD:22:LEU:HB2	1.64	0.79
3:A9:66:ILE:HA	1:AK:150:ASN:ND2	1.97	0.79
3:AA:112:ILE:CG2	2:MK:13:THR:CA	2.60	0.79
5:EB:64:TRP:CE3	4:BM:30:LEU:HB2	2.14	0.79
3:AC:114:PHE:CG	2:MP:51:GLN:HB3	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EC:140:ASP:HB3	5:CC:139:LYS:HE2	0.91	0.79
1:CD:22:LEU:CD2	1:YG:47:GLU:CD	2.55	0.79
1:DD:302:ASP:HB2	1:KS:29:TYR:HH	0.85	0.79
1:LD:314:GLY:C	1:YG:31:LYS:CG	2.52	0.79
2:MD:2:TYR:CD2	1:KK:153:LEU:CD1	2.55	0.79
2:ND:15:TYR:HE2	1:YG:148:ALA:HB3	1.46	0.79
1:BE:105:GLU:CA	1:BJ:109:LEU:CD1	2.60	0.79
1:aE:74:TRP:CZ3	2:HR:32:ILE:HD11	2.18	0.79
2:HG:32:ILE:HD11	1:YL:74:TRP:CZ3	2.18	0.79
1:aG:367:PRO:CG	1:BK:375:TRP:CE3	2.62	0.79
5:EI:37:ASP:OD2	3:AN:197:VAL:CG2	2.25	0.79
5:EI:140:ASP:N	5:CI:139:LYS:CB	2.46	0.79
1:CK:142:PHE:HB2	1:hR:82:ILE:CD1	2.08	0.79
2:UL:38:GLU:N	2:UL:38:GLU:OE2	2.14	0.79
4:BM:153:THR:HA	4:BO:186:THR:HG22	1.63	0.79
1:hR:347:ILE:C	1:hR:348:ASN:HD22	1.90	0.79
1:Q1:81:PHE:HD2	1:Q8:139:ARG:HD2	1.25	0.79
1:f1:71:ARG:NH2	1:AQ:210:ASN:ND2	2.29	0.79
5:N2:231:ASN:HB2	5:CB:265:LEU:CG	2.11	0.79
1:C3:29:TYR:CZ	1:QG:302:ASP:OD2	2.35	0.79
1:Q3:302:ASP:CG	1:CR:29:TYR:HH	1.90	0.79
2:d3:3:GLU:O	1:BD:153:LEU:CD2	2.31	0.79
1:X4:74:TRP:CZ3	2:f8:32:ILE:HD11	2.18	0.79
1:f4:29:TYR:CZ	1:C6:302:ASP:OD2	2.35	0.79
1:f4:300:TYR:HA	1:ZG:115:ARG:HH22	1.47	0.79
2:l4:32:ILE:HD11	1:YG:74:TRP:CZ3	2.18	0.79
3:A5:155:GLU:CG	1:AJ:139:ARG:HB3	2.11	0.79
2:E6:38:GLU:OE2	2:E6:38:GLU:N	2.14	0.79
1:I6:29:TYR:CZ	1:YR:302:ASP:OD2	2.35	0.79
1:Y6:74:TRP:CZ3	2:RE:32:ILE:HD11	2.18	0.79
1:g6:47:GLU:CD	1:CP:22:LEU:CD2	2.55	0.79
1:g6:321:VAL:HG22	1:g6:327:PHE:CD2	2.18	0.79
1:C7:45:MET:HG2	1:CK:14:VAL:HA	1.65	0.79
1:B7:368:GLU:CD	1:CP:107:LEU:CD2	2.56	0.79
4:B9:33:TYR:HH	5:EC:57:GLU:HA	1.46	0.79
5:EA:25:ARG:HH12	5:DC:54:LYS:HD3	1.44	0.79
1:LD:29:TYR:HH	1:DK:302:ASP:HB2	0.84	0.79
2:GE:3:GLU:O	1:BP:153:LEU:CD2	2.31	0.79
1:KE:321:VAL:HG22	1:KE:327:PHE:CD2	2.18	0.79
3:AI:6:ARG:O	5:DM:23:LYS:O	1.99	0.79
1:IL:71:ARG:NH2	1:ZR:210:ASN:ND2	2.29	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RL:347:ILE:C	1:RL:348:ASN:HD22	1.90	0.79
3:AO:154:ILE:CB	1:IS:145:LEU:CD2	2.30	0.79
1:C1:302:ASP:OD2	1:Y8:29:TYR:CZ	2.35	0.79
5:D2:23:LYS:O	3:AF:6:ARG:O	1.99	0.79
2:a3:9:SER:HB3	1:BK:363:PRO:HG2	1.64	0.79
1:I4:71:ARG:NH2	1:A8:210:ASN:ND2	2.29	0.79
1:R4:118:THR:OG1	1:BS:53:TYR:O	1.99	0.79
1:T4:44:THR:OG1	1:AS:14:VAL:O	2.00	0.79
1:X4:208:LEU:HD11	1:X4:391:ILE:HD13	1.45	0.79
1:X4:321:VAL:HG22	1:X4:327:PHE:CD2	2.18	0.79
1:X4:364:PHE:HZ	1:bE:108:MET:CE	1.90	0.79
1:Y6:300:TYR:HA	1:LE:115:ARG:HH22	1.47	0.79
2:n6:32:ILE:HD11	1:AE:74:TRP:CZ3	2.18	0.79
2:f7:32:ILE:HD11	1:IR:74:TRP:CZ3	2.18	0.79
1:i8:57:LYS:CB	1:DD:143:GLN:HE21	1.95	0.79
3:AB:112:ILE:C	2:MD:23:ARG:HH21	1.74	0.79
5:EB:37:ASP:OD2	3:AM:197:VAL:CG2	2.25	0.79
1:AD:145:LEU:HB3	3:AF:37:GLU:CG	2.12	0.79
1:CD:22:LEU:CD2	1:YG:47:GLU:OE2	2.30	0.79
1:LD:38:LYS:HG2	1:DK:119:LYS:HZ3	1.35	0.79
1:LD:144:THR:H	1:DK:82:ILE:HD11	1.37	0.79
5:CI:265:LEU:HD22	5:NO:231:ASN:CB	2.12	0.79
1:CQ:302:ASP:OD2	1:gR:29:TYR:CZ	2.35	0.79
1:QQ:321:VAL:HG22	1:QQ:327:PHE:CD2	2.18	0.79
1:CR:321:VAL:HG22	1:CR:327:PHE:CD2	2.18	0.79
1:ZR:347:ILE:C	1:ZR:348:ASN:HD22	1.90	0.79
1:C1:61:THR:HG22	1:A6:89:TYR:HE1	1.46	0.79
1:C1:81:PHE:HD2	1:Y8:139:ARG:HD2	1.25	0.79
1:Q1:302:ASP:OD2	1:Q8:29:TYR:CZ	2.35	0.79
1:T1:29:TYR:C	1:LJ:98:ASN:ND2	2.40	0.79
1:Y1:85:TYR:HH	1:I6:46:PHE:HD1	1.31	0.79
1:f1:29:TYR:CZ	1:C3:302:ASP:OD2	2.35	0.79
2:m1:32:ILE:HD11	1:CQ:74:TRP:CZ3	2.18	0.79
1:I3:321:VAL:HG22	1:I3:327:PHE:CD2	2.18	0.79
1:J3:115:ARG:HH22	1:Q8:300:TYR:HA	1.47	0.79
1:R3:89:TYR:HE1	1:I8:61:THR:HG22	1.46	0.79
1:R3:347:ILE:C	1:R3:348:ASN:HD22	1.90	0.79
1:Y4:115:ARG:HH22	1:Y8:300:TYR:HA	1.47	0.79
1:g4:105:GLU:CA	1:BK:109:LEU:CD1	2.60	0.79
4:B5:30:LEU:CB	5:EO:64:TRP:CE2	2.62	0.79
1:Q6:58:ILE:HB	1:CJ:55:PHE:HE2	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:29:TYR:C	1:LP:315:ALA:HB2	2.08	0.79
1:i6:368:GLU:CD	1:CJ:107:LEU:CD2	2.56	0.79
1:B7:47:GLU:HG3	1:DP:22:LEU:HB2	1.64	0.79
1:Q7:321:VAL:HG22	1:Q7:327:PHE:CD2	2.18	0.79
1:Y7:74:TRP:CZ3	2:PR:32:ILE:HD11	2.18	0.79
1:Z7:115:ARG:HH22	1:IR:300:TYR:HA	1.47	0.79
1:Y8:321:VAL:HG22	1:Y8:327:PHE:CD2	2.18	0.79
1:g8:29:TYR:C	1:KS:315:ALA:HB2	2.08	0.79
5:NB:231:ASN:HB2	5:CF:265:LEU:CG	2.12	0.79
3:AC:149:GLN:HB3	1:KP:80:ASP:HB3	1.63	0.79
3:AC:197:VAL:CG2	5:EN:37:ASP:OD2	2.25	0.79
5:CC:265:LEU:HD22	5:NH:231:ASN:CB	2.12	0.79
1:FE:367:PRO:HD2	1:LP:108:MET:CE	2.12	0.79
1:bE:347:ILE:C	1:bE:348:ASN:HD22	1.90	0.79
1:CG:74:TRP:CZ3	2:fL:32:ILE:HD11	2.18	0.79
1:CG:300:TYR:HA	1:ZL:115:ARG:HH22	1.47	0.79
1:YG:321:VAL:HG22	1:YG:327:PHE:CD2	2.18	0.79
5:EH:140:ASP:N	5:CH:139:LYS:CB	2.46	0.79
1:LJ:369:PHE:CE2	1:AS:105:GLU:CA	2.66	0.79
2:PL:32:ILE:HD11	1:YR:74:TRP:CZ3	2.18	0.79
1:AQ:347:ILE:C	1:AQ:348:ASN:HD22	1.90	0.79
1:I1:302:ASP:OD2	1:Y6:29:TYR:CZ	2.35	0.79
2:d3:2:TYR:HE2	1:BD:157:LYS:HZ2	1.18	0.79
1:C4:74:TRP:CZ3	2:XG:32:ILE:HD11	2.18	0.79
1:J4:347:ILE:C	1:J4:348:ASN:HD22	1.90	0.79
1:R4:115:ARG:HH22	1:g8:300:TYR:HA	1.47	0.79
1:T4:29:TYR:C	1:KS:98:ASN:ND2	2.40	0.79
2:W4:32:ILE:HD11	1:g8:74:TRP:CZ3	2.18	0.79
1:f4:139:ARG:HD2	1:C6:81:PHE:HD2	1.25	0.79
1:f4:321:VAL:HG22	1:f4:327:PHE:CD2	2.18	0.79
1:Q6:143:GLN:O	1:LJ:82:ILE:CG1	2.20	0.79
1:S6:57:LYS:CB	1:CS:143:GLN:NE2	2.46	0.79
2:f6:32:ILE:HD11	1:KE:74:TRP:CZ3	2.18	0.79
1:g6:74:TRP:CZ3	2:JE:32:ILE:HD11	2.18	0.79
1:i6:57:LYS:CB	1:DJ:143:GLN:HE21	1.96	0.79
1:Q7:74:TRP:CZ3	2:XQ:32:ILE:HD11	2.18	0.79
1:Y7:302:ASP:OD2	1:KE:29:TYR:CZ	2.35	0.79
1:C8:302:ASP:OD2	1:AE:29:TYR:CZ	2.35	0.79
1:Q8:321:VAL:HG22	1:Q8:327:PHE:CD2	2.18	0.79
3:AA:114:PHE:HA	2:MK:8:ARG:N	1.96	0.79
5:NB:231:ASN:CB	5:CF:265:LEU:CD1	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EC:140:ASP:N	5:CC:139:LYS:CB	2.46	0.79
2:GE:11:MET:HG2	1:BP:133:LEU:HB2	1.65	0.79
1:CG:321:VAL:HG22	1:CG:327:PHE:CD2	2.18	0.79
1:gG:321:VAL:HG22	1:gG:327:PHE:CD2	2.18	0.79
4:BH:186:THR:HG22	4:BN:153:THR:HA	1.63	0.79
1:BK:14:VAL:O	1:jR:44:THR:OG1	1.99	0.79
1:CK:315:ALA:CA	1:jR:30:SER:C	2.55	0.79
3:AO:154:ILE:CA	1:IS:145:LEU:HD23	1.80	0.79
1:bQ:321:VAL:HG22	1:bQ:327:PHE:CD2	2.18	0.79
1:R1:118:THR:OG1	1:CJ:53:TYR:O	1.99	0.79
1:S1:105:GLU:HB3	1:LJ:109:LEU:CD2	1.90	0.79
1:I3:29:TYR:CZ	1:QL:302:ASP:OD2	2.35	0.79
1:I3:300:TYR:HA	1:R8:115:ARG:HH22	1.47	0.79
1:C4:300:TYR:HA	1:RG:115:ARG:HH22	1.47	0.79
1:I4:302:ASP:OD2	1:QL:29:TYR:CZ	2.35	0.79
1:J4:89:TYR:HE1	1:C8:61:THR:HG22	1.46	0.79
1:J7:347:ILE:C	1:J7:348:ASN:HD22	1.90	0.79
1:g7:321:VAL:HG22	1:g7:327:PHE:CD2	2.18	0.79
1:I8:29:TYR:CZ	1:IR:302:ASP:OD2	2.35	0.79
1:i8:13:LEU:C	1:DD:45:MET:HG2	2.07	0.79
1:i8:57:LYS:CB	1:DD:143:GLN:NE2	2.46	0.79
1:FE:53:TYR:HD1	1:CP:222:SER:OG	1.65	0.79
1:FE:366:ASN:HA	1:LP:108:MET:SD	2.22	0.79
1:SE:321:VAL:HG22	1:SE:327:PHE:CD2	2.18	0.79
1:JG:347:ILE:C	1:JG:348:ASN:HD22	1.90	0.79
1:KJ:32:SER:CB	1:AP:170:GLU:OE2	2.31	0.79
1:LK:58:ILE:CG2	1:KP:55:PHE:HE2	1.75	0.79
1:IL:29:TYR:CZ	1:IQ:302:ASP:OD2	2.35	0.79
1:DP:133:LEU:CB	2:mR:11:MET:HG3	2.13	0.79
1:C1:74:TRP:CZ3	2:H6:32:ILE:HD11	2.18	0.79
1:A1:89:TYR:HE1	1:C6:61:THR:HG22	1.46	0.79
1:Q1:29:TYR:CZ	1:IG:302:ASP:OD2	2.35	0.79
3:A2:6:ARG:O	5:DA:23:LYS:O	1.99	0.79
4:B2:32:PHE:CD2	5:FA:55:LEU:HD12	2.06	0.79
1:Q3:321:VAL:HG22	1:Q3:327:PHE:CD2	2.18	0.79
2:H4:32:ILE:HD11	1:QG:74:TRP:CZ3	2.18	0.79
1:I4:321:VAL:HG22	1:I4:327:PHE:CD2	2.18	0.79
1:Q4:74:TRP:CZ3	2:n8:32:ILE:HD11	2.18	0.79
1:Q4:300:TYR:HA	1:h8:115:ARG:HH22	1.47	0.79
1:g4:347:ILE:C	1:g4:348:ASN:HD22	1.90	0.79
1:S6:47:GLU:HG3	1:CS:22:LEU:HB2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:31:LYS:CG	1:LP:314:GLY:C	2.52	0.79
1:Q7:300:TYR:HA	1:RQ:115:ARG:HH22	1.47	0.79
1:Z7:89:TYR:HE1	1:IR:61:THR:HG22	1.46	0.79
1:Z8:347:ILE:C	1:Z8:348:ASN:HD22	1.90	0.79
1:g8:27:HIS:O	1:IS:98:ASN:ND2	2.16	0.79
1:g8:45:MET:HG2	1:BS:14:VAL:HA	1.65	0.79
1:AD:98:ASN:ND2	1:YG:27:HIS:O	2.16	0.79
1:LD:31:LYS:HG2	1:DK:314:GLY:O	1.80	0.79
1:LD:369:PHE:CD2	1:BK:108:MET:HE2	2.18	0.79
2:MD:15:TYR:HE2	1:KK:152:ALA:HB2	1.45	0.79
1:AE:321:VAL:HG22	1:AE:327:PHE:CD2	2.18	0.79
1:FE:29:TYR:C	1:LP:98:ASN:ND2	2.40	0.79
1:IG:321:VAL:HG22	1:IG:327:PHE:CD2	2.18	0.79
1:DJ:314:GLY:C	1:LP:31:LYS:HG2	2.07	0.79
1:BK:44:THR:O	1:jR:17:SER:HA	1.83	0.79
1:YL:29:TYR:CZ	1:QR:302:ASP:OD2	2.35	0.79
1:ZL:347:ILE:C	1:ZL:348:ASN:HD22	1.90	0.79
1:JR:347:ILE:C	1:JR:348:ASN:HD22	1.90	0.79
1:I1:61:THR:HG22	1:JG:89:TYR:HE1	1.46	0.78
1:T1:44:THR:OG1	1:BJ:14:VAL:O	1.99	0.78
1:I3:74:TRP:CZ3	2:X8:32:ILE:HD11	2.18	0.78
2:P3:32:ILE:HD11	1:Q8:74:TRP:CZ3	2.18	0.78
1:A4:115:ARG:HH22	1:QG:300:TYR:HA	1.47	0.78
1:R4:81:PHE:O	1:BS:139:ARG:HB3	1.83	0.78
1:T4:17:SER:HA	1:AS:44:THR:O	1.84	0.78
1:T4:55:PHE:CD2	1:AS:58:ILE:HD11	2.19	0.78
2:W4:11:MET:HG3	1:DD:133:LEU:CB	2.13	0.78
1:g4:81:PHE:O	1:CD:139:ARG:HB3	1.83	0.78
1:i4:38:LYS:CD	1:CD:220:ARG:O	2.30	0.78
5:C5:265:LEU:CG	5:NI:231:ASN:HB2	2.11	0.78
1:Y6:321:VAL:HG22	1:Y6:327:PHE:CD2	2.18	0.78
1:i6:13:LEU:C	1:DJ:45:MET:HG2	2.07	0.78
1:C7:367:PRO:HG2	1:LK:375:TRP:CZ2	2.17	0.78
1:I7:300:TYR:HA	1:cQ:115:ARG:HH22	1.47	0.78
1:Y7:208:LEU:HD11	1:Y7:391:ILE:HD13	1.46	0.78
1:g8:367:PRO:HG2	1:KS:375:TRP:CZ2	2.17	0.78
1:LD:31:LYS:CB	1:DK:314:GLY:O	2.30	0.78
1:LD:143:GLN:CA	1:DK:82:ILE:CD1	2.55	0.78
1:BE:81:PHE:O	1:CP:139:ARG:HB3	1.83	0.78
2:JE:11:MET:HG3	1:DJ:133:LEU:CB	2.13	0.78
1:aE:321:VAL:HG22	1:aE:327:PHE:CD2	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gG:61:THR:HG22	1:AL:89:TYR:HE1	1.46	0.78
1:hG:115:ARG:HH22	1:CL:300:TYR:HA	1.47	0.78
2:nG:32:ILE:HD11	1:CL:74:TRP:CZ3	2.18	0.78
1:DJ:82:ILE:CD1	1:LP:143:GLN:CA	2.55	0.78
1:LJ:105:GLU:CD	1:gL:109:LEU:O	2.13	0.78
1:CK:222:SER:OG	1:jR:53:TYR:HD1	1.65	0.78
1:AL:347:ILE:C	1:AL:348:ASN:HD22	1.90	0.78
1:IL:74:TRP:CZ3	2:fR:32:ILE:HD11	2.18	0.78
1:IR:321:VAL:HG22	1:IR:327:PHE:CD2	2.18	0.78
1:C1:20:SER:CB	1:dQ:47:GLU:HB3	2.14	0.78
2:H1:32:ILE:HD11	1:C6:74:TRP:CZ3	2.18	0.78
1:I1:74:TRP:CZ3	2:PG:32:ILE:HD11	2.18	0.78
1:Q1:74:TRP:CZ3	2:X6:32:ILE:HD11	2.18	0.78
1:R1:109:LEU:CD1	1:AJ:106:GLU:HA	2.12	0.78
1:T1:366:ASN:HA	1:LJ:108:MET:SD	2.22	0.78
1:f1:20:SER:CB	1:B3:47:GLU:HB3	2.13	0.78
3:A2:154:ILE:HG22	1:AK:54:LEU:CA	2.13	0.78
5:D2:54:LYS:HD3	5:EB:25:ARG:HH12	1.44	0.78
1:Q3:61:THR:HG22	1:J8:89:TYR:HE1	1.46	0.78
1:g4:118:THR:OG1	1:CD:53:TYR:O	1.99	0.78
3:A5:115:ILE:O	2:MJ:21:ASN:CG	2.26	0.78
4:B5:186:THR:HG22	4:BI:153:THR:HA	1.63	0.78
1:Q6:31:LYS:CG	1:LJ:314:GLY:C	2.52	0.78
1:Y6:222:SER:HA	1:SE:38:LYS:HD3	1.66	0.78
1:AD:223:GLY:HA3	1:KK:53:TYR:CG	2.19	0.78
1:CD:55:PHE:HE2	1:YG:58:ILE:HB	1.48	0.78
1:bE:115:ARG:HH22	1:CR:300:TYR:HA	1.47	0.78
4:BI:32:PHE:CD2	5:FM:55:LEU:HD12	2.06	0.78
1:IL:20:SER:CB	1:KQ:47:GLU:HB3	2.13	0.78
1:QL:74:TRP:CZ3	2:XR:32:ILE:HD11	2.18	0.78
1:YL:38:LYS:HD3	1:QR:222:SER:HA	1.66	0.78
5:EO:140:ASP:N	5:CO:139:LYS:CB	2.46	0.78
2:aQ:3:GLU:O	1:AS:153:LEU:CD2	2.31	0.78
1:R1:105:GLU:HA	1:CS:369:PHE:HE2	0.76	0.78
1:f1:74:TRP:CZ3	2:HQ:32:ILE:HD11	2.18	0.78
3:A2:107:LEU:O	2:MD:7:MET:CB	2.32	0.78
5:C2:265:LEU:HD22	5:N9:231:ASN:CB	2.12	0.78
5:N2:231:ASN:CB	5:CB:265:LEU:HD22	2.12	0.78
1:I3:364:PHE:HZ	1:RR:108:MET:CE	1.90	0.78
2:a3:11:MET:HG2	1:BK:133:LEU:HB2	1.65	0.78
2:P4:32:ILE:HD11	1:C8:74:TRP:CZ3	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i4:55:PHE:CD2	1:BD:58:ILE:HD11	2.19	0.78
1:C6:20:SER:CB	1:iG:47:GLU:HB3	2.14	0.78
1:Q6:54:LEU:HA	1:LJ:118:THR:HG23	1.65	0.78
1:Z6:347:ILE:C	1:Z6:348:ASN:HD22	1.90	0.78
1:C7:31:LYS:HG2	1:LK:314:GLY:CA	2.13	0.78
1:I7:74:TRP:CZ3	2:iQ:32:ILE:HD11	2.18	0.78
2:X7:32:ILE:HD11	1:QQ:74:TRP:CZ3	2.18	0.78
1:g7:38:LYS:HD3	1:AE:222:SER:HA	1.66	0.78
1:A8:108:MET:CE	1:QL:364:PHE:HZ	1.90	0.78
1:R8:347:ILE:C	1:R8:348:ASN:HD22	1.90	0.78
5:DB:23:LYS:O	3:AM:6:ARG:O	1.99	0.78
5:EB:64:TRP:CE2	4:BM:30:LEU:CB	2.62	0.78
1:KD:372:VAL:C	2:LS:11:MET:HE1	2.08	0.78
1:FE:55:PHE:CD2	1:BP:58:ILE:HD11	2.19	0.78
5:EF:57:GLU:CA	4:BO:33:TYR:CZ	2.65	0.78
1:QG:321:VAL:HG22	1:QG:327:PHE:CD2	2.18	0.78
5:EI:36:ALA:CA	3:AN:194:ASN:CG	2.53	0.78
1:AJ:81:PHE:CG	1:JS:139:ARG:HB3	2.03	0.78
1:BJ:99:MET:O	1:LP:25:PHE:CG	2.35	0.78
1:BJ:153:LEU:CD2	2:iL:3:GLU:O	2.31	0.78
1:AK:375:TRP:CB	1:KP:367:PRO:HB2	2.13	0.78
1:KK:105:GLU:HG2	1:DP:110:LYS:C	1.91	0.78
1:LK:369:PHE:CD2	1:BP:108:MET:HE2	2.18	0.78
1:JL:115:ARG:HH22	1:YR:300:TYR:HA	1.47	0.78
3:AM:112:ILE:HD12	2:LS:17:ASP:HB3	0.89	0.78
1:IQ:208:LEU:HD11	1:IQ:391:ILE:HD13	1.46	0.78
1:YR:321:VAL:HG22	1:YR:327:PHE:CD2	2.18	0.78
1:g1:115:ARG:HH22	1:CQ:300:TYR:HA	1.47	0.78
5:E2:36:ALA:CA	3:AF:194:ASN:CG	2.53	0.78
1:A3:115:ARG:HH22	1:g7:300:TYR:HA	1.47	0.78
1:C4:321:VAL:HG22	1:C4:327:PHE:HD2	1.49	0.78
1:I4:222:SER:HA	1:QL:38:LYS:HD3	1.66	0.78
1:Q4:321:VAL:HG22	1:Q4:327:PHE:CD2	2.18	0.78
2:l4:11:MET:HG3	1:DK:133:LEU:CB	2.13	0.78
1:S6:57:LYS:CB	1:CS:143:GLN:HE21	1.95	0.78
1:S6:368:GLU:CD	1:BS:107:LEU:CD2	2.56	0.78
1:g6:27:HIS:O	1:AP:98:ASN:ND2	2.16	0.78
1:J7:89:TYR:HE1	1:bQ:61:THR:HG22	1.46	0.78
1:C8:222:SER:HA	1:AE:38:LYS:HD3	1.66	0.78
1:i8:368:GLU:CD	1:CD:107:LEU:CD2	2.56	0.78
5:EB:140:ASP:N	5:CB:139:LYS:CB	2.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:170:GLU:OE2	1:KK:32:SER:CB	2.31	0.78
1:DD:109:LEU:CG	1:JS:105:GLU:O	2.29	0.78
1:KD:32:SER:CB	1:IS:170:GLU:OE2	2.31	0.78
1:LD:25:PHE:CG	1:BK:99:MET:O	2.35	0.78
2:MD:11:MET:HE1	1:KK:372:VAL:C	2.08	0.78
1:BE:82:ILE:CD1	1:CP:142:PHE:HB2	2.08	0.78
1:BE:347:ILE:C	1:BE:348:ASN:HD22	1.90	0.78
1:aE:300:TYR:HA	1:AR:115:ARG:HH22	1.47	0.78
1:YG:208:LEU:HD11	1:YG:391:ILE:HD13	1.45	0.78
1:aG:368:GLU:CD	1:CK:107:LEU:CD2	2.56	0.78
1:KJ:105:GLU:C	1:CS:109:LEU:HD11	2.08	0.78
1:LJ:31:LYS:HA	1:CS:316:VAL:CG2	2.10	0.78
1:LK:33:TRP:CZ3	1:DP:173:ALA:CB	2.47	0.78
1:AR:347:ILE:C	1:AR:348:ASN:HD22	1.90	0.78
1:C1:38:LYS:HD3	1:bQ:222:SER:HA	1.65	0.78
1:I1:222:SER:HA	1:Y6:38:LYS:HD3	1.66	0.78
1:Q1:38:LYS:HD3	1:IG:222:SER:HA	1.66	0.78
1:T1:55:PHE:CD2	1:BJ:58:ILE:HD11	2.19	0.78
1:X1:20:SER:CB	1:K8:47:GLU:HB3	2.13	0.78
1:X1:321:VAL:HG22	1:X1:327:PHE:CD2	2.18	0.78
2:e1:32:ILE:HD11	1:I6:74:TRP:CZ3	2.18	0.78
1:f1:38:LYS:HD3	1:C3:222:SER:HA	1.66	0.78
3:A2:6:ARG:NH2	5:DA:52:LEU:CA	2.45	0.78
1:J3:347:ILE:C	1:J3:348:ASN:HD22	1.90	0.78
1:X4:321:VAL:HG22	1:X4:327:PHE:HD2	1.49	0.78
1:i4:53:TYR:HD1	1:CD:222:SER:OG	1.66	0.78
3:A5:190:ASP:H	4:BI:251:TRP:HH2	1.27	0.78
1:C6:321:VAL:HG22	1:C6:327:PHE:HD2	1.49	0.78
2:H7:32:ILE:HD11	1:gR:74:TRP:CZ3	2.18	0.78
1:I8:321:VAL:HG22	1:I8:327:PHE:HD2	1.49	0.78
1:g8:321:VAL:HG22	1:g8:327:PHE:HD2	1.49	0.78
5:EA:140:ASP:N	5:CA:139:LYS:CB	2.46	0.78
1:AD:375:TRP:CB	1:KK:367:PRO:HB2	2.14	0.78
1:KD:152:ALA:HB2	2:LS:15:TYR:HE2	1.45	0.78
2:ZE:32:ILE:HD11	1:IQ:74:TRP:CZ3	2.18	0.78
1:YG:321:VAL:HG22	1:YG:327:PHE:HD2	1.49	0.78
3:AI:113:TYR:O	2:MJ:5:ASN:ND2	2.06	0.78
1:AJ:223:GLY:HA3	1:JS:53:TYR:CG	2.19	0.78
1:BJ:261:ILE:HG23	1:BJ:265:ASP:OD1	1.83	0.78
1:AK:170:GLU:OE2	1:KP:32:SER:CB	2.31	0.78
1:AK:223:GLY:HA3	1:KP:53:TYR:CG	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:361:LYS:CE	1:KP:365:HIS:NE2	2.32	0.78
1:LK:25:PHE:CG	1:BP:99:MET:O	2.35	0.78
1:IL:38:LYS:HD3	1:IQ:222:SER:HA	1.66	0.78
5:EM:140:ASP:HB3	5:CM:139:LYS:HB2	1.62	0.78
1:CQ:321:VAL:HG22	1:CQ:327:PHE:CD2	2.18	0.78
1:gR:321:VAL:HG22	1:gR:327:PHE:CD2	2.18	0.78
1:AS:261:ILE:HG23	1:AS:265:ASP:OD1	1.83	0.78
1:C1:321:VAL:HG22	1:C1:327:PHE:HD2	1.49	0.78
1:J1:108:MET:CE	1:Q1:364:PHE:HZ	1.90	0.78
1:Z1:47:GLU:HB3	1:IR:20:SER:CB	2.14	0.78
1:C3:74:TRP:CZ3	2:n7:32:ILE:HD11	2.18	0.78
1:Q3:222:SER:HA	1:CR:38:LYS:HD3	1.66	0.78
1:Q3:321:VAL:HG22	1:Q3:327:PHE:HD2	1.49	0.78
1:I4:74:TRP:CZ3	2:H8:32:ILE:HD11	2.18	0.78
1:Q4:38:LYS:HD3	1:IL:222:SER:HA	1.65	0.78
1:T4:366:ASN:HA	1:KS:108:MET:SD	2.22	0.78
1:C6:38:LYS:HD3	1:gG:222:SER:HA	1.65	0.78
1:I6:321:VAL:HG22	1:I6:327:PHE:CD2	2.18	0.78
1:R6:108:MET:CE	1:Q8:364:PHE:HZ	1.90	0.78
1:h6:347:ILE:C	1:h6:348:ASN:HD22	1.90	0.78
1:C7:27:HIS:HB3	1:LK:312:PRO:HD3	0.86	0.78
1:C7:321:VAL:HG22	1:C7:327:PHE:CD2	2.18	0.78
1:I8:321:VAL:HG22	1:I8:327:PHE:CD2	2.18	0.78
3:A9:36:LEU:HD21	1:AK:135:ASN:ND2	1.99	0.78
3:A9:150:TYR:O	1:AK:144:THR:HG21	1.83	0.78
5:E9:140:ASP:N	5:C9:139:LYS:CB	2.46	0.78
1:BD:99:MET:O	1:KS:25:PHE:CG	2.35	0.78
1:FE:17:SER:HA	1:BP:44:THR:O	1.84	0.78
1:SE:300:TYR:HA	1:JQ:115:ARG:HH22	1.47	0.78
1:gG:300:TYR:HA	1:AL:115:ARG:HH22	1.47	0.78
3:AI:194:ASN:CG	5:EM:36:ALA:CA	2.53	0.78
5:EI:57:GLU:CA	4:BN:33:TYR:CZ	2.65	0.78
1:AJ:170:GLU:OE2	1:JS:32:SER:CB	2.31	0.78
1:KJ:53:TYR:CG	1:AP:223:GLY:HA3	2.18	0.78
1:CK:139:ARG:HB3	1:hR:81:PHE:O	1.83	0.78
1:LK:98:ASN:ND2	1:jR:29:TYR:C	2.40	0.78
5:EN:140:ASP:N	5:CN:139:LYS:CB	2.46	0.78
5:EO:140:ASP:CG	5:CO:139:LYS:CE	2.37	0.78
1:IQ:321:VAL:HG22	1:IQ:327:PHE:HD2	1.49	0.78
2:P1:32:ILE:HD11	1:IG:74:TRP:CZ3	2.18	0.78
1:T1:17:SER:HA	1:BJ:44:THR:O	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h1:137:ASP:OD1	1:QG:48:THR:CG2	2.32	0.78
5:E2:140:ASP:N	5:C2:139:LYS:CB	2.46	0.78
1:C3:208:LEU:HD11	1:C3:391:ILE:HD13	1.46	0.78
1:C3:321:VAL:HG22	1:C3:327:PHE:HD2	1.49	0.78
1:S3:137:ASP:OD1	1:CR:48:THR:CG2	2.32	0.78
1:I4:321:VAL:HG22	1:I4:327:PHE:HD2	1.49	0.78
1:Q4:48:THR:CG2	1:KL:137:ASP:OD1	2.32	0.78
1:T4:29:TYR:CA	1:KS:98:ASN:ND2	2.46	0.78
1:f4:74:TRP:CZ3	2:fG:32:ILE:HD11	2.18	0.78
1:A6:347:ILE:C	1:A6:348:ASN:HD22	1.90	0.78
1:Q6:29:TYR:C	1:LJ:315:ALA:HB2	2.08	0.78
1:g6:45:MET:HG2	1:CP:14:VAL:HA	1.65	0.78
1:C7:74:TRP:CZ3	2:mR:32:ILE:HD11	2.18	0.78
1:Y7:321:VAL:HG22	1:Y7:327:PHE:CD2	2.18	0.78
1:i8:367:PRO:CG	1:BD:375:TRP:CE3	2.62	0.78
4:B9:186:THR:HG22	4:BA:153:THR:HA	1.62	0.78
1:CD:47:GLU:HG3	1:YG:20:SER:HB2	1.65	0.78
1:KD:22:LEU:CA	1:KS:47:GLU:OE1	2.27	0.78
1:KD:367:PRO:O	1:IS:377:HIS:NE2	2.16	0.78
1:BE:221:ALA:CA	1:CP:38:LYS:CD	2.05	0.78
1:LE:347:ILE:C	1:LE:348:ASN:HD22	1.90	0.78
1:BJ:108:MET:HE2	1:LP:369:PHE:CD2	2.18	0.78
1:KJ:153:LEU:HD12	2:MP:2:TYR:HE2	1.45	0.78
1:LJ:29:TYR:CZ	1:CS:302:ASP:HB2	2.18	0.78
1:IL:321:VAL:HG22	1:IL:327:PHE:CD2	2.18	0.78
1:YL:321:VAL:HG22	1:YL:327:PHE:CD2	2.18	0.78
1:RQ:347:ILE:C	1:RQ:348:ASN:HD22	1.90	0.78
1:A1:347:ILE:C	1:A1:348:ASN:HD22	1.90	0.78
1:R1:81:PHE:O	1:CJ:139:ARG:HB3	1.83	0.78
1:R1:116:MET:HE1	1:CJ:54:LEU:HD21	0.78	0.78
1:X1:74:TRP:CZ3	2:P6:32:ILE:HD11	2.18	0.78
1:f1:222:SER:HA	1:QG:38:LYS:HD3	1.65	0.78
1:f1:321:VAL:HG22	1:f1:327:PHE:CD2	2.18	0.78
1:K3:137:ASP:OD1	1:I4:48:THR:CG2	2.32	0.78
1:A4:347:ILE:C	1:A4:348:ASN:HD22	1.90	0.78
1:Y4:210:ASN:ND2	1:Y8:71:ARG:NH2	2.29	0.78
2:e4:32:ILE:HD11	1:Y8:74:TRP:CZ3	2.18	0.78
1:I6:38:LYS:HD3	1:YR:222:SER:HA	1.66	0.78
1:I6:48:THR:CG2	1:aR:137:ASP:OD1	2.32	0.78
1:a6:47:GLU:HB3	1:SE:20:SER:CB	2.14	0.78
1:a6:137:ASP:OD1	1:SE:48:THR:CG2	2.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:27:HIS:C	1:AP:100:ASP:CG	2.52	0.78
1:g6:30:SER:CA	1:LP:315:ALA:CA	2.62	0.78
1:C7:27:HIS:C	1:AK:100:ASP:CG	2.52	0.78
1:C7:143:GLN:O	1:LK:82:ILE:CG1	2.20	0.78
2:P7:32:ILE:HD11	1:bQ:74:TRP:CZ3	2.18	0.78
1:Y7:321:VAL:HG22	1:Y7:327:PHE:HD2	1.49	0.78
1:g7:48:THR:CG2	1:CE:137:ASP:OD1	2.32	0.78
1:I8:48:THR:CG2	1:KR:137:ASP:OD1	2.32	0.78
1:S8:137:ASP:OD1	1:IG:48:THR:CG2	2.32	0.78
1:g8:143:GLN:O	1:KS:82:ILE:CG1	2.20	0.78
1:g8:321:VAL:HG22	1:g8:327:PHE:CD2	2.18	0.78
3:AB:116:VAL:C	2:MD:19:ARG:HD2	2.09	0.78
1:BD:108:MET:HE2	1:KS:369:PHE:CD2	2.18	0.78
1:DD:314:GLY:O	1:KS:31:LYS:HB2	1.84	0.78
1:KD:51:ASN:ND2	1:IS:116:MET:HG2	1.98	0.78
1:KD:105:GLU:O	1:DK:109:LEU:CG	2.29	0.78
1:LD:222:SER:OG	1:YG:39:TRP:O	2.01	0.78
1:LD:315:ALA:HB2	1:YG:29:TYR:C	2.08	0.78
3:AI:29:ARG:NH1	1:IS:58:ILE:CG1	2.28	0.78
1:AJ:377:HIS:NE2	1:JS:367:PRO:O	2.16	0.78
1:KJ:78:GLU:CD	3:AN:81:LEU:CD2	2.57	0.78
1:LJ:144:THR:H	1:CS:82:ILE:HD11	1.38	0.78
1:AK:377:HIS:NE2	1:KP:367:PRO:O	2.16	0.78
1:BK:58:ILE:HD11	1:jR:55:PHE:CD2	2.18	0.78
1:LK:22:LEU:HB2	1:KP:47:GLU:OE1	1.84	0.78
1:CL:208:LEU:HD11	1:CL:391:ILE:HD13	1.46	0.78
5:EM:140:ASP:N	5:CM:139:LYS:CB	2.46	0.78
5:NM:230:SER:CA	5:CO:266:THR:CB	2.49	0.78
1:BQ:137:ASP:OD1	1:gR:48:THR:CG2	2.32	0.78
1:QR:321:VAL:HG22	1:QR:327:PHE:CD2	2.18	0.78
1:C1:48:THR:CG2	1:dQ:137:ASP:OD1	2.32	0.78
1:C1:222:SER:HA	1:Y8:38:LYS:HD3	1.66	0.78
1:C3:321:VAL:HG22	1:C3:327:PHE:CD2	2.18	0.78
1:Q3:47:GLU:CD	1:Z4:22:LEU:HD22	2.09	0.78
1:Q3:74:TRP:CZ3	2:P8:32:ILE:HD11	2.18	0.78
1:B4:137:ASP:OD1	1:aE:48:THR:CG2	2.32	0.78
1:f4:38:LYS:HD3	1:C6:222:SER:HA	1.66	0.78
1:i4:17:SER:HA	1:BD:44:THR:O	1.83	0.78
1:i4:44:THR:OG1	1:BD:14:VAL:O	1.99	0.78
1:C6:48:THR:CG2	1:iG:137:ASP:OD1	2.32	0.78
1:Q6:45:MET:HG2	1:CJ:14:VAL:HA	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I7:321:VAL:HG22	1:I7:327:PHE:CD2	2.18	0.78
1:J7:115:ARG:HH22	1:bQ:300:TYR:HA	1.47	0.78
1:Y7:38:LYS:HD3	1:QQ:222:SER:HA	1.65	0.78
1:Y7:48:THR:CG2	1:SQ:137:ASP:OD1	2.32	0.78
1:a7:137:ASP:OD1	1:KE:48:THR:CG2	2.32	0.78
1:g7:20:SER:CB	1:CE:47:GLU:HB3	2.14	0.78
1:C8:321:VAL:HG22	1:C8:327:PHE:CD2	2.18	0.78
1:h8:347:ILE:C	1:h8:348:ASN:HD22	1.90	0.78
1:KD:53:TYR:CG	1:IS:223:GLY:HA3	2.18	0.78
1:KD:368:GLU:OE2	1:IS:375:TRP:CG	2.12	0.78
1:LD:315:ALA:CA	1:YG:30:SER:CA	2.62	0.78
1:IG:321:VAL:HG22	1:IG:327:PHE:HD2	1.49	0.78
1:aG:47:GLU:HG3	1:DK:22:LEU:HB2	1.64	0.78
1:AJ:304:GLN:HE21	1:JS:28:ASP:HB2	1.49	0.78
1:DJ:130:LYS:CB	1:LP:368:GLU:OE1	2.32	0.78
1:LJ:31:LYS:HG2	1:CS:314:GLY:O	1.80	0.78
1:LJ:45:MET:HB2	1:JS:14:VAL:HG23	0.78	0.78
1:LJ:369:PHE:CD2	1:AS:108:MET:HE2	2.18	0.78
2:XL:32:ILE:HD11	1:QR:74:TRP:CZ3	2.18	0.78
3:AO:36:LEU:HD21	1:IS:139:ARG:HD2	1.66	0.78
1:CQ:222:SER:HA	1:gR:38:LYS:HD3	1.66	0.78
2:aQ:11:MET:HG2	1:AS:133:LEU:HB2	1.65	0.78
1:R1:105:GLU:HG3	1:AS:111:ARG:NH2	1.93	0.78
1:h1:22:LEU:HD22	1:QG:47:GLU:CD	2.09	0.78
3:A2:112:ILE:HG13	2:MD:5:ASN:CG	2.09	0.78
4:B2:30:LEU:HB2	5:EA:64:TRP:CE3	2.13	0.78
2:a3:3:GLU:O	1:BK:153:LEU:CD2	2.31	0.78
1:Q4:47:GLU:CD	1:KL:22:LEU:HD22	2.09	0.78
1:T4:53:TYR:HD1	1:BS:222:SER:OG	1.66	0.78
1:i4:136:ASN:O	1:CD:81:PHE:HZ	1.64	0.78
1:I6:47:GLU:CD	1:aR:22:LEU:HD22	2.09	0.78
1:K6:47:GLU:HB3	1:CL:20:SER:CB	2.14	0.78
1:Q6:31:LYS:HG2	1:LJ:314:GLY:CA	2.13	0.78
1:Q6:321:VAL:HG22	1:Q6:327:PHE:CD2	2.18	0.78
1:g6:300:TYR:HA	1:BE:115:ARG:HH22	1.47	0.78
1:C7:30:SER:CA	1:LK:315:ALA:CA	2.62	0.78
1:I7:20:SER:CB	1:iR:47:GLU:HB3	2.14	0.78
1:g8:27:HIS:C	1:IS:100:ASP:CG	2.52	0.78
1:g8:30:SER:CA	1:KS:315:ALA:CA	2.62	0.78
1:g8:139:ARG:NH1	1:KS:81:PHE:HD2	1.52	0.78
3:A9:32:PHE:CE2	1:AK:135:ASN:O	2.37	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B9:32:PHE:CE1	5:FC:51:ARG:HD3	2.19	0.78
3:AC:114:PHE:CA	2:MP:51:GLN:NE2	2.35	0.78
1:AD:100:ASP:CG	1:YG:27:HIS:C	2.51	0.78
1:KD:25:PHE:HA	1:JS:100:ASP:CA	2.13	0.78
1:LD:31:LYS:HB2	1:DK:314:GLY:O	1.84	0.78
1:LD:312:PRO:CD	1:YG:27:HIS:CB	2.50	0.78
1:LD:369:PHE:CE2	1:BK:105:GLU:CA	2.66	0.78
5:EF:36:ALA:CA	3:AO:194:ASN:CG	2.53	0.78
1:gG:74:TRP:CZ3	2:HL:32:ILE:HD11	2.18	0.78
4:BI:30:LEU:CB	5:EM:64:TRP:CE2	2.62	0.78
5:EI:57:GLU:HB3	4:BN:33:TYR:HE1	1.34	0.78
1:AJ:375:TRP:CG	1:JS:367:PRO:HB2	2.18	0.78
1:DJ:375:TRP:CA	1:LP:368:GLU:OE2	2.27	0.78
1:KJ:51:ASN:ND2	1:AP:116:MET:HG2	1.98	0.78
1:LJ:31:LYS:HB2	1:CS:314:GLY:O	1.84	0.78
1:IQ:321:VAL:HG22	1:IQ:327:PHE:CD2	2.18	0.78
1:I1:48:THR:CG2	1:UE:137:ASP:OD1	2.32	0.77
1:I1:321:VAL:HG22	1:I1:327:PHE:CD2	2.18	0.77
1:R4:347:ILE:C	1:R4:348:ASN:HD22	1.90	0.77
1:f4:71:ARG:NH2	1:ZG:210:ASN:ND2	2.29	0.77
1:g4:126:VAL:HB	1:CD:25:PHE:HE1	1.49	0.77
1:i4:29:TYR:CA	1:LD:98:ASN:ND2	2.46	0.77
1:C6:321:VAL:HG22	1:C6:327:PHE:CD2	2.18	0.77
1:S6:57:LYS:CD	1:CS:143:GLN:HE22	0.40	0.77
5:F9:51:ARG:HD3	4:BB:32:PHE:CE1	2.19	0.77
5:C9:265:LEU:HD13	5:NA:231:ASN:CA	2.14	0.77
5:CA:265:LEU:CG	5:NC:231:ASN:HB2	2.11	0.77
1:LD:22:LEU:CD1	1:KK:49:PHE:CB	2.62	0.77
1:LD:368:GLU:OE1	1:DK:130:LYS:CB	2.32	0.77
1:AE:208:LEU:CD1	1:AE:391:ILE:HD12	1.95	0.77
1:FE:29:TYR:CA	1:LP:98:ASN:ND2	2.46	0.77
5:EF:140:ASP:N	5:CF:139:LYS:CB	2.46	0.77
1:QG:321:VAL:HG22	1:QG:327:PHE:HD2	1.49	0.77
1:QG:364:PHE:HZ	1:AQ:108:MET:CE	1.90	0.77
1:DJ:222:SER:HB3	1:LP:53:TYR:CD1	2.09	0.77
1:KJ:28:ASP:HB2	1:AP:304:GLN:HE21	1.49	0.77
1:CL:321:VAL:HG22	1:CL:327:PHE:CD2	2.18	0.77
3:AO:66:ILE:CA	2:LS:54:THR:HG22	2.08	0.77
1:BQ:22:LEU:HD22	1:gR:47:GLU:CD	2.09	0.77
1:Q1:321:VAL:HG22	1:Q1:327:PHE:CD2	2.18	0.77
1:T1:53:TYR:HD1	1:CJ:222:SER:OG	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W1:32:ILE:HD11	1:Q6:74:TRP:CZ3	2.18	0.77
2:H3:32:ILE:HD11	1:g7:74:TRP:CZ3	2.18	0.77
1:Q4:321:VAL:HG22	1:Q4:327:PHE:HD2	1.49	0.77
1:T4:374:HIS:CG	2:GS:8:ARG:HH12	2.00	0.77
1:g4:82:ILE:CD1	1:CD:142:PHE:HB2	2.08	0.77
1:I7:208:LEU:HD11	1:I7:391:ILE:HD13	1.46	0.77
1:i7:137:ASP:OD1	1:C8:48:THR:CG2	2.32	0.77
3:AA:194:ASN:CG	5:EH:36:ALA:CA	2.53	0.77
4:BC:32:PHE:CE1	5:FN:51:ARG:HD3	2.19	0.77
1:AD:304:GLN:HE21	1:KK:28:ASP:CB	1.94	0.77
2:GD:54:THR:OG1	2:LS:2:TYR:CD1	2.38	0.77
1:KD:14:VAL:HG23	1:KS:45:MET:HB2	0.78	0.77
1:SE:74:TRP:CZ3	2:PQ:32:ILE:HD11	2.18	0.77
1:TE:210:ASN:ND2	1:IQ:71:ARG:NH2	2.29	0.77
1:CG:321:VAL:HG22	1:CG:327:PHE:HD2	1.49	0.77
1:RG:347:ILE:C	1:RG:348:ASN:HD22	1.90	0.77
1:jG:325:LYS:HB2	1:jG:325:LYS:HZ2	1.47	0.77
1:BJ:105:GLU:HA	1:LP:369:PHE:HE2	1.49	0.77
1:KJ:58:ILE:CB	1:LP:55:PHE:HE2	1.85	0.77
1:AK:170:GLU:CD	1:KP:32:SER:CB	2.57	0.77
1:AK:304:GLN:HE21	1:KP:28:ASP:CB	1.94	0.77
1:CK:220:ARG:O	1:jR:38:LYS:CD	2.30	0.77
1:LK:98:ASN:ND2	1:jR:29:TYR:CA	2.46	0.77
1:QL:321:VAL:HG22	1:QL:327:PHE:CD2	2.18	0.77
1:C1:321:VAL:HG22	1:C1:327:PHE:CD2	2.18	0.77
1:R3:202:PHE:HD2	1:I8:248:SER:HG	1.31	0.77
1:C4:321:VAL:HG22	1:C4:327:PHE:CD2	2.18	0.77
1:h4:137:ASP:OD1	1:gG:48:THR:CG2	2.32	0.77
5:E5:140:ASP:HB3	5:C5:139:LYS:HB2	1.62	0.77
1:Z6:115:ARG:HH22	1:KE:300:TYR:HA	1.47	0.77
1:C7:29:TYR:C	1:LK:315:ALA:HB1	2.09	0.77
1:Q7:48:THR:CG2	1:aL:137:ASP:OD1	2.32	0.77
1:a7:22:LEU:HD22	1:KE:47:GLU:CD	2.09	0.77
1:C8:321:VAL:HG22	1:C8:327:PHE:HD2	1.49	0.77
1:g8:29:TYR:C	1:KS:315:ALA:HB1	2.09	0.77
1:g8:31:LYS:HG2	1:KS:314:GLY:CA	2.13	0.77
5:EC:21:ILE:HG22	5:EH:55:LEU:HD22	1.62	0.77
1:AD:375:TRP:CG	1:KK:367:PRO:HB2	2.18	0.77
1:DD:375:TRP:CA	1:KS:368:GLU:OE2	2.27	0.77
1:AG:210:ASN:ND2	1:YL:71:ARG:NH2	2.29	0.77
5:CH:265:LEU:HD13	5:NN:231:ASN:CA	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AI:6:ARG:HH22	5:DM:52:LEU:CA	1.97	0.77
5:DI:52:LEU:CA	3:AN:6:ARG:HH22	1.97	0.77
5:CI:266:THR:CB	5:NO:230:SER:CA	2.49	0.77
1:KJ:367:PRO:HB2	1:AP:375:TRP:CB	2.14	0.77
1:AK:116:MET:HG2	1:KP:51:ASN:ND2	1.98	0.77
2:MK:2:TYR:CD1	2:GP:54:THR:OG1	2.38	0.77
5:EM:55:LEU:HD22	5:EO:21:ILE:HG22	1.62	0.77
1:CR:321:VAL:HG22	1:CR:327:PHE:HD2	1.49	0.77
1:Q1:321:VAL:HG22	1:Q1:327:PHE:HD2	1.49	0.77
1:R1:126:VAL:HB	1:CJ:25:PHE:HE1	1.49	0.77
1:X1:222:SER:HA	1:IR:38:LYS:HD3	1.65	0.77
5:F2:51:ARG:HD3	4:BF:32:PHE:CE1	2.19	0.77
1:f4:47:GLU:CD	1:B6:22:LEU:HD22	2.09	0.77
1:I6:20:SER:CB	1:aR:47:GLU:HB3	2.14	0.77
1:g6:29:TYR:CE2	1:LP:317:PHE:HE1	2.02	0.77
1:i6:57:LYS:CB	1:DJ:143:GLN:NE2	2.46	0.77
1:Q7:222:SER:HA	1:QR:38:LYS:HD3	1.66	0.77
1:Y7:20:SER:CB	1:SQ:47:GLU:HB3	2.14	0.77
1:B8:137:ASP:OD1	1:AE:48:THR:CG2	2.32	0.77
1:a8:137:ASP:OD1	1:bQ:48:THR:CG2	2.32	0.77
5:D9:52:LEU:CA	3:AB:6:ARG:HH22	1.97	0.77
5:DA:35:ARG:HH22	1:AK:369:PHE:HZ	1.16	0.77
4:BB:251:TRP:HH2	3:AF:190:ASP:H	1.27	0.77
1:KD:78:GLU:OE2	3:AF:83:TYR:N	2.12	0.77
1:LD:118:THR:HG23	1:YG:54:LEU:HA	1.66	0.77
1:FE:374:HIS:CG	2:HP:8:ARG:HH12	2.00	0.77
1:ME:137:ASP:OD1	1:QQ:48:THR:CG2	2.32	0.77
1:cE:47:GLU:HB3	1:CG:20:SER:CB	2.13	0.77
2:hE:32:ILE:HD11	1:CR:74:TRP:CZ3	2.18	0.77
5:CI:265:LEU:HD13	5:NO:231:ASN:CA	2.15	0.77
1:AJ:304:GLN:NE2	1:JS:28:ASP:CA	2.41	0.77
1:CK:312:PRO:HD3	1:jR:27:HIS:CG	2.20	0.77
1:KK:99:MET:HE2	1:KP:136:ASN:HD21	1.49	0.77
1:LK:31:LYS:HB2	1:DP:314:GLY:O	1.84	0.77
1:IR:321:VAL:HG22	1:IR:327:PHE:HD2	1.49	0.77
1:B1:22:LEU:HD22	1:Y8:47:GLU:CD	2.09	0.77
1:I1:321:VAL:HG22	1:I1:327:PHE:HD2	1.49	0.77
1:K1:137:ASP:OD1	1:Y6:48:THR:CG2	2.32	0.77
5:N2:231:ASN:CB	5:CB:265:LEU:CG	2.61	0.77
1:K4:22:LEU:HD22	1:QL:47:GLU:CD	2.09	0.77
1:Q4:20:SER:CB	1:KL:47:GLU:HB3	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q4:364:PHE:HZ	1:ZR:108:MET:CE	1.90	0.77
1:X4:139:ARG:HD2	1:CR:81:PHE:HD2	1.25	0.77
1:g4:81:PHE:CD2	1:CD:139:ARG:HG3	2.20	0.77
5:E5:140:ASP:N	5:C5:139:LYS:CB	2.46	0.77
1:Q6:30:SER:CA	1:LJ:315:ALA:CA	2.62	0.77
1:g6:33:TRP:HZ2	1:LP:177:ASP:OD2	1.68	0.77
1:C7:39:TRP:O	1:LK:222:SER:OG	2.01	0.77
1:C7:54:LEU:HA	1:LK:118:THR:HG23	1.65	0.77
1:h7:347:ILE:C	1:h7:348:ASN:HD22	1.90	0.77
1:AD:58:ILE:CG1	3:AF:154:ILE:HG22	2.13	0.77
1:AD:377:HIS:NE2	1:KK:367:PRO:O	2.16	0.77
1:LD:312:PRO:HD3	1:YG:27:HIS:HB3	0.86	0.77
1:LD:367:PRO:HG2	1:DK:375:TRP:HE3	1.47	0.77
1:BE:126:VAL:HB	1:CP:25:PHE:HE1	1.49	0.77
1:FE:27:HIS:CG	1:CP:312:PRO:HD3	2.20	0.77
1:aG:57:LYS:CB	1:DK:143:GLN:NE2	2.46	0.77
1:AJ:116:MET:HG2	1:JS:51:ASN:ND2	1.98	0.77
1:DJ:123:ASN:HD22	1:LP:21:ALA:HB1	1.49	0.77
1:LK:368:GLU:OE1	1:DP:130:LYS:CB	2.32	0.77
2:MK:11:MET:HE1	1:KP:372:VAL:C	2.08	0.77
1:QL:321:VAL:HG22	1:QL:327:PHE:HD2	1.49	0.77
1:IR:208:LEU:CD1	1:IR:391:ILE:HD12	1.95	0.77
1:LR:325:LYS:HB2	1:LR:325:LYS:HZ2	1.49	0.77
1:Q1:47:GLU:CD	1:KG:22:LEU:HD22	2.09	0.77
1:R1:81:PHE:CD2	1:CJ:139:ARG:HG3	2.20	0.77
1:f1:375:TRP:CZ3	1:QG:367:PRO:CG	2.68	0.77
1:h1:47:GLU:HB3	1:QG:20:SER:CB	2.14	0.77
1:K4:137:ASP:OD1	1:QL:48:THR:CG2	2.32	0.77
1:Q4:367:PRO:CG	1:IL:375:TRP:CZ3	2.68	0.77
1:R4:118:THR:CB	1:BS:53:TYR:O	2.33	0.77
1:X4:48:THR:CG2	1:BR:137:ASP:OD1	2.32	0.77
3:A5:156:ILE:N	1:AJ:139:ARG:NH1	2.14	0.77
1:Y6:208:LEU:CD1	1:Y6:391:ILE:HD12	1.95	0.77
1:Z6:108:MET:CE	1:QQ:364:PHE:HZ	1.90	0.77
1:g6:81:PHE:HD2	1:DJ:139:ARG:HD3	1.46	0.77
1:I8:367:PRO:CG	1:IR:375:TRP:CZ3	2.68	0.77
1:g8:33:TRP:HZ2	1:KS:177:ASP:OD2	1.68	0.77
1:g8:39:TRP:O	1:KS:222:SER:OG	2.01	0.77
3:A9:29:ARG:HG2	1:AK:370:ASP:OD2	1.84	0.77
4:BA:32:PHE:CE1	5:FH:51:ARG:HD3	2.19	0.77
1:AD:170:GLU:CD	1:KK:32:SER:CB	2.57	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:14:VAL:HA	1:YG:45:MET:HG2	1.65	0.77
1:LG:325:LYS:HB2	1:LG:325:LYS:HZ2	1.50	0.77
5:EI:64:TRP:CG	4:BN:30:LEU:CB	2.62	0.77
1:AJ:316:VAL:HG21	1:JS:32:SER:HB2	1.67	0.77
1:CK:25:PHE:HE1	1:hR:126:VAL:HB	1.49	0.77
1:CK:53:TYR:C	1:hR:118:THR:HG21	2.10	0.77
2:MK:2:TYR:CE2	1:KP:153:LEU:HD12	2.19	0.77
1:BQ:47:GLU:HB3	1:gR:20:SER:CB	2.14	0.77
1:I1:47:GLU:CD	1:UE:22:LEU:HD22	2.09	0.77
1:R1:118:THR:HG21	1:CJ:53:TYR:C	2.10	0.77
1:T1:38:LYS:CD	1:CJ:220:ARG:O	2.30	0.77
1:f1:48:THR:CG2	1:B3:137:ASP:OD1	2.32	0.77
1:Q3:48:THR:CG2	1:Z4:137:ASP:OD1	2.32	0.77
1:B4:47:GLU:HB3	1:aE:20:SER:CB	2.14	0.77
1:C6:47:GLU:CD	1:iG:22:LEU:HD22	2.09	0.77
1:Q6:33:TRP:HZ2	1:LJ:177:ASP:OD2	1.68	0.77
1:Q6:39:TRP:O	1:LJ:222:SER:OG	2.01	0.77
1:I7:367:PRO:CG	1:gR:375:TRP:CZ3	2.68	0.77
1:Q7:375:TRP:CZ3	1:QR:367:PRO:CG	2.68	0.77
1:B8:137:ASP:OD2	1:AE:49:PHE:HB3	1.85	0.77
1:I8:20:SER:CB	1:KR:47:GLU:HB3	2.14	0.77
1:I8:38:LYS:HD3	1:IR:222:SER:HA	1.66	0.77
2:k8:45:ILE:CG1	2:k8:46:HIS:N	2.36	0.77
4:BC:33:TYR:HE1	5:EN:57:GLU:HB3	1.34	0.77
1:DD:119:LYS:HZ1	1:KS:38:LYS:HG2	1.32	0.77
1:LD:21:ALA:HB1	1:DK:123:ASN:HD22	1.49	0.77
1:LD:45:MET:HB2	1:KK:14:VAL:HG23	0.78	0.77
1:LD:317:PHE:HE1	1:YG:29:TYR:CE2	2.02	0.77
1:BE:105:GLU:N	1:BJ:110:LYS:HZ3	1.81	0.77
1:TE:347:ILE:C	1:TE:348:ASN:HD22	1.90	0.77
5:FF:51:ARG:HD3	4:BO:32:PHE:CE1	2.19	0.77
1:KJ:14:VAL:HG23	1:LP:45:MET:HB2	0.78	0.77
1:KJ:99:MET:HE2	1:JS:136:ASN:HD21	1.49	0.77
1:LK:29:TYR:HH	1:DP:302:ASP:HB2	0.75	0.77
1:RR:347:ILE:C	1:RR:348:ASN:HD22	1.90	0.77
1:C1:47:GLU:CD	1:dQ:22:LEU:HD22	2.09	0.77
1:B1:47:GLU:HB3	1:Y8:20:SER:CB	2.14	0.77
1:K1:137:ASP:OD2	1:Y6:49:PHE:HB3	1.85	0.77
1:Q1:48:THR:CG2	1:KG:137:ASP:OD1	2.32	0.77
1:R1:109:LEU:HD13	1:AJ:106:GLU:CA	2.10	0.77
1:R1:118:THR:CB	1:CJ:53:TYR:O	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f1:49:PHE:HB3	1:B3:137:ASP:OD2	1.85	0.77
5:E2:57:GLU:HB3	4:BF:33:TYR:HE1	1.34	0.77
5:C2:265:LEU:CG	5:N9:231:ASN:CB	2.61	0.77
1:C3:49:PHE:HB3	1:SG:137:ASP:OD2	1.85	0.77
1:C4:47:GLU:CD	1:BG:22:LEU:HD22	2.09	0.77
1:C4:222:SER:HA	1:aE:38:LYS:HD3	1.66	0.77
1:R4:126:VAL:HB	1:BS:25:PHE:HE1	1.49	0.77
1:S4:137:ASP:OD2	1:IQ:49:PHE:HB3	1.85	0.77
1:C6:49:PHE:HB3	1:iG:137:ASP:OD2	1.85	0.77
1:I6:375:TRP:CZ3	1:CL:367:PRO:CG	2.68	0.77
1:S6:13:LEU:C	1:CS:45:MET:SD	2.63	0.77
1:S6:57:LYS:HD3	1:CS:143:GLN:HE22	1.05	0.77
1:a6:22:LEU:HD22	1:SE:47:GLU:CD	2.09	0.77
1:Y7:367:PRO:CG	1:QQ:375:TRP:CZ3	2.68	0.77
1:i7:22:LEU:HD22	1:C8:47:GLU:CD	2.09	0.77
1:AD:145:LEU:CB	3:AF:37:GLU:HG3	2.13	0.77
1:CD:22:LEU:HD22	1:YG:47:GLU:CD	2.10	0.77
1:LD:315:ALA:HB1	1:YG:29:TYR:C	2.09	0.77
5:EI:140:ASP:HB3	5:CI:139:LYS:CD	2.14	0.77
1:DJ:118:THR:OG1	1:LP:54:LEU:HA	1.85	0.77
1:KJ:80:ASP:OD2	3:AN:64:GLN:HA	1.85	0.77
1:LJ:47:GLU:OE1	1:JS:22:LEU:CA	2.27	0.77
2:MJ:2:TYR:CE2	1:JS:153:LEU:HD12	2.19	0.77
2:MJ:11:MET:HE1	1:JS:372:VAL:C	2.08	0.77
1:CK:33:TRP:HB2	1:hR:174:MET:SD	2.25	0.77
1:LK:367:PRO:HG2	1:DP:375:TRP:HE3	1.47	0.77
1:IL:48:THR:CG2	1:KQ:137:ASP:OD1	2.32	0.77
1:C1:49:PHE:HB3	1:dQ:137:ASP:OD2	1.85	0.77
1:T1:144:THR:O	1:CJ:82:ILE:CD1	2.12	0.77
1:T1:367:PRO:CG	1:CJ:375:TRP:CE3	2.68	0.77
1:T1:374:HIS:CE1	2:HJ:8:ARG:NH1	2.53	0.77
1:X1:46:PHE:HD1	1:J6:85:TYR:HH	1.32	0.77
1:X1:48:THR:CG2	1:K8:137:ASP:OD1	2.32	0.77
1:Z1:137:ASP:OD2	1:IR:49:PHE:HB3	1.85	0.77
1:f1:321:VAL:HG22	1:f1:327:PHE:HD2	1.49	0.77
1:g1:347:ILE:C	1:g1:348:ASN:HD22	1.90	0.77
3:A2:112:ILE:HB	2:MD:5:ASN:HD22	1.50	0.77
1:C3:38:LYS:HD3	1:QG:222:SER:HA	1.66	0.77
1:Q3:375:TRP:CZ3	1:CR:367:PRO:CG	2.68	0.77
2:E4:45:ILE:CG1	2:E4:46:HIS:N	2.36	0.77
1:K4:255:ILE:HG23	1:K4:261:ILE:CD1	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q4:222:SER:HA	1:IQ:38:LYS:HD3	1.66	0.77
1:R4:118:THR:HG21	1:BS:53:TYR:C	2.10	0.77
1:S4:255:ILE:HG23	1:S4:261:ILE:CD1	2.15	0.77
1:T4:367:PRO:CG	1:BS:375:TRP:CE3	2.68	0.77
4:B5:33:TYR:CZ	5:EO:57:GLU:CA	2.65	0.77
1:K6:137:ASP:OD1	1:CL:48:THR:CG2	2.32	0.77
1:Q6:27:HIS:C	1:AJ:100:ASP:CG	2.51	0.77
1:Q6:29:TYR:C	1:LJ:315:ALA:HB1	2.09	0.77
1:R6:347:ILE:C	1:R6:348:ASN:HD22	1.90	0.77
1:B7:255:ILE:HG23	1:B7:261:ILE:CD1	2.15	0.77
1:K7:22:LEU:HD22	1:CQ:47:GLU:CD	2.09	0.77
1:K7:137:ASP:OD2	1:CQ:49:PHE:HB3	1.85	0.77
1:Q7:47:GLU:CD	1:aL:22:LEU:HD22	2.09	0.77
1:S7:137:ASP:OD2	1:QR:49:PHE:HB3	1.85	0.77
1:Y7:47:GLU:CD	1:SQ:22:LEU:HD22	2.09	0.77
1:Y7:222:SER:HA	1:KE:38:LYS:HD3	1.66	0.77
1:g7:47:GLU:CD	1:CE:22:LEU:HD22	2.09	0.77
5:EB:36:ALA:CA	3:AM:194:ASN:CG	2.53	0.77
1:KD:47:GLU:OE1	1:KS:22:LEU:HB2	1.84	0.77
1:ME:137:ASP:OD2	1:QQ:49:PHE:HB3	1.85	0.77
1:bE:202:PHE:HD2	1:CR:248:SER:HG	1.31	0.77
1:cE:137:ASP:OD2	1:CG:49:PHE:HB3	1.85	0.77
5:EF:55:LEU:HD22	5:EM:21:ILE:HG22	1.62	0.77
1:KG:255:ILE:HG23	1:KG:261:ILE:CD1	2.15	0.77
1:SG:255:ILE:HG23	1:SG:261:ILE:CD1	2.15	0.77
1:DJ:314:GLY:O	1:LP:31:LYS:HB2	1.84	0.77
1:DJ:316:VAL:CG2	1:LP:31:LYS:HA	2.10	0.77
1:KJ:367:PRO:HB2	1:AP:375:TRP:CG	2.18	0.77
1:KJ:367:PRO:O	1:AP:377:HIS:NE2	2.16	0.77
1:LJ:47:GLU:CG	1:JS:20:SER:CB	2.01	0.77
1:BK:290:ASN:CG	1:BK:325:LYS:HZ1	1.93	0.77
1:CK:53:TYR:O	1:hR:118:THR:CB	2.33	0.77
1:IL:49:PHE:HB3	1:KQ:137:ASP:OD2	1.85	0.77
1:IL:367:PRO:CG	1:IQ:375:TRP:CZ3	2.68	0.77
1:JL:347:ILE:C	1:JL:348:ASN:HD22	1.90	0.77
1:I1:367:PRO:CG	1:SE:375:TRP:CZ3	2.68	0.77
1:Z1:255:ILE:HG23	1:Z1:261:ILE:CD1	2.15	0.77
1:f1:47:GLU:CD	1:B3:22:LEU:HD22	2.09	0.77
1:f1:367:PRO:CG	1:C3:375:TRP:CZ3	2.68	0.77
4:B2:32:PHE:CE1	5:FA:51:ARG:HD3	2.19	0.77
1:S3:137:ASP:OD2	1:CR:49:PHE:HB3	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:372:VAL:HG21	2:X8:10:MET:HB2	1.67	0.77
1:R4:82:ILE:CD1	1:BS:142:PHE:HB2	2.08	0.77
1:T4:374:HIS:CE1	2:GS:8:ARG:NH1	2.53	0.77
1:X4:38:LYS:HD3	1:CR:222:SER:HA	1.66	0.77
1:f4:20:SER:CB	1:B6:47:GLU:HB3	2.14	0.77
5:C5:265:LEU:HD13	5:NI:231:ASN:CA	2.15	0.77
1:I6:208:LEU:CD1	1:I6:391:ILE:HD11	2.15	0.77
1:Q6:365:HIS:CD2	2:NJ:10:MET:HE2	2.20	0.77
1:S6:49:PHE:CD1	1:CS:22:LEU:HD11	2.20	0.77
1:g6:29:TYR:OH	1:LP:302:ASP:OD2	2.02	0.77
1:B7:14:VAL:HG21	1:DP:14:VAL:HG12	0.79	0.77
1:B7:57:LYS:CB	1:DP:143:GLN:NE2	2.46	0.77
1:I7:48:THR:CG2	1:iR:137:ASP:OD1	2.32	0.77
1:g7:375:TRP:CZ3	1:C8:367:PRO:CG	2.68	0.77
1:g8:27:HIS:O	1:IS:100:ASP:CG	2.28	0.77
1:g8:29:TYR:CE2	1:KS:317:PHE:HE1	2.02	0.77
1:i8:133:LEU:O	2:ED:11:MET:SD	2.40	0.77
4:BA:193:VAL:N	4:BC:146:ALA:O	2.18	0.77
5:FB:51:ARG:HD3	4:BM:32:PHE:CE1	2.19	0.77
1:AD:116:MET:HG2	1:KK:51:ASN:ND2	1.98	0.77
1:LD:315:ALA:CB	1:YG:29:TYR:O	2.33	0.77
2:ND:10:MET:HE2	1:YG:365:HIS:CD2	2.20	0.77
1:FE:374:HIS:CE1	2:HP:8:ARG:NH1	2.53	0.77
4:BH:117:GLU:HB2	4:BH:220:THR:HG23	1.67	0.77
1:BJ:133:LEU:HB2	2:iL:11:MET:HG2	1.65	0.77
1:LJ:37:ASP:C	1:CS:119:LYS:HG3	2.09	0.77
1:LJ:53:TYR:CD1	1:CS:222:SER:HB3	2.09	0.77
1:AK:223:GLY:CA	1:KP:53:TYR:CZ	2.65	0.77
1:AK:316:VAL:HG21	1:KP:32:SER:HB2	1.67	0.77
1:KK:108:MET:CB	1:KP:366:ASN:OD1	2.11	0.77
1:BL:22:LEU:HD22	1:YR:47:GLU:CD	2.09	0.77
1:BL:137:ASP:OD2	1:YR:49:PHE:HB3	1.85	0.77
1:gR:208:LEU:CD1	1:gR:391:ILE:HD11	2.15	0.77
1:R1:81:PHE:HE1	1:CJ:140:PHE:CE1	2.04	0.76
1:R1:174:MET:SD	1:CJ:33:TRP:HB2	2.25	0.76
1:f1:372:VAL:HG21	2:n7:10:MET:HB2	1.67	0.76
5:O2:386:ASN:OD1	5:CB:263:LYS:HE2	1.86	0.76
1:I3:20:SER:CB	1:SL:47:GLU:HB3	2.14	0.76
2:P3:10:MET:HB2	1:IG:372:VAL:HG21	1.67	0.76
1:Q3:49:PHE:HB3	1:Z4:137:ASP:OD2	1.85	0.76
1:C4:48:THR:CG2	1:BG:137:ASP:OD1	2.32	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S4:137:ASP:OD1	1:IQ:48:THR:CG2	2.32	0.76
1:X4:49:PHE:HB3	1:BR:137:ASP:OD2	1.85	0.76
5:E5:36:ALA:CA	3:AH:194:ASN:CG	2.53	0.76
1:g6:321:VAL:HG22	1:g6:327:PHE:HD2	1.49	0.76
1:C7:27:HIS:O	1:AK:100:ASP:CG	2.28	0.76
1:C7:29:TYR:C	1:LK:315:ALA:HB2	2.08	0.76
1:C7:47:GLU:CD	1:CK:22:LEU:HD22	2.10	0.76
1:I7:321:VAL:HG22	1:I7:327:PHE:HD2	1.49	0.76
1:S7:22:LEU:HD22	1:QR:47:GLU:CD	2.09	0.76
1:S7:137:ASP:OD1	1:QR:48:THR:CG2	2.32	0.76
1:i8:49:PHE:CD1	1:DD:22:LEU:HD11	2.20	0.76
4:B9:33:TYR:CZ	5:EC:57:GLU:CA	2.65	0.76
5:E9:37:ASP:OD2	3:AB:197:VAL:CG2	2.25	0.76
1:AD:375:TRP:CD1	1:KK:368:GLU:CA	2.68	0.76
1:KD:32:SER:HB2	1:IS:316:VAL:HG21	1.67	0.76
1:LD:29:TYR:CZ	1:DK:302:ASP:HB2	2.18	0.76
2:ZE:10:MET:HB2	1:IL:372:VAL:HG21	1.67	0.76
2:eE:45:ILE:CG1	2:eE:46:HIS:N	2.36	0.76
5:NF:231:ASN:CA	5:CM:265:LEU:HD13	2.15	0.76
1:AJ:170:GLU:CD	1:JS:32:SER:CB	2.57	0.76
1:KJ:32:SER:CB	1:AP:170:GLU:CD	2.57	0.76
1:LJ:368:GLU:OE1	1:CS:130:LYS:CB	2.32	0.76
1:CK:140:PHE:CE1	1:hR:81:PHE:HE1	2.03	0.76
1:LK:369:PHE:CE2	1:BP:105:GLU:CA	2.66	0.76
1:CL:321:VAL:HG22	1:CL:327:PHE:HD2	1.49	0.76
1:IL:47:GLU:CD	1:KQ:22:LEU:HD22	2.09	0.76
1:IL:321:VAL:HG22	1:IL:327:PHE:HD2	1.49	0.76
1:YL:47:GLU:CD	1:SR:22:LEU:HD22	2.09	0.76
1:YL:48:THR:CG2	1:SR:137:ASP:OD1	2.32	0.76
1:YL:321:VAL:HG22	1:YL:327:PHE:HD2	1.49	0.76
6:LN:96:SER:O	2:MP:3:GLU:OE1	2.02	0.76
1:I1:38:LYS:HD3	1:SE:222:SER:HA	1.66	0.76
1:S1:137:ASP:OD1	1:Q8:48:THR:CG2	2.32	0.76
1:X1:49:PHE:HB3	1:K8:137:ASP:OD2	1.85	0.76
1:X1:375:TRP:CZ3	1:IR:367:PRO:CG	2.68	0.76
3:A2:33:ASN:HD21	1:AK:58:ILE:HD13	0.59	0.76
5:N2:230:SER:OG	5:CB:248:GLN:HB3	1.86	0.76
1:C3:48:THR:CG2	1:SG:137:ASP:OD1	2.32	0.76
2:P4:10:MET:HB2	1:AE:372:VAL:HG21	1.67	0.76
1:g4:123:ASN:HD22	1:CD:21:ALA:HB2	1.51	0.76
4:B5:32:PHE:CE1	5:FO:51:ARG:HD3	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F5:51:ARG:HD3	4:BH:32:PHE:CE1	2.19	0.76
1:C6:367:PRO:CG	1:gG:375:TRP:CZ3	2.68	0.76
1:Q6:29:TYR:O	1:LJ:315:ALA:CB	2.33	0.76
1:Q6:47:GLU:N	1:CJ:19:LYS:NZ	2.33	0.76
1:a6:255:ILE:HG23	1:a6:261:ILE:CD1	2.15	0.76
1:g6:57:LYS:HD2	1:CP:143:GLN:HE21	1.45	0.76
1:g6:365:HIS:CD2	2:NP:10:MET:HE2	2.20	0.76
1:C7:20:SER:HB2	1:CK:47:GLU:HG3	1.64	0.76
1:C7:33:TRP:HZ2	1:LK:177:ASP:OD2	1.68	0.76
1:C7:365:HIS:CD2	2:NK:10:MET:HE2	2.20	0.76
1:B7:14:VAL:CB	1:DP:14:VAL:CG1	2.63	0.76
1:Q7:321:VAL:HG22	1:Q7:327:PHE:HD2	1.49	0.76
1:g8:365:HIS:CD2	2:MS:10:MET:HE2	2.20	0.76
5:E9:57:GLU:HA	4:BB:33:TYR:HH	1.50	0.76
5:CA:263:LYS:HE2	5:OC:386:ASN:OD1	1.85	0.76
1:BD:261:ILE:HG23	1:BD:265:ASP:OD1	1.83	0.76
1:CD:19:LYS:NZ	1:YG:47:GLU:N	2.33	0.76
1:KD:32:SER:CB	1:IS:170:GLU:CD	2.57	0.76
1:LD:31:LYS:HA	1:DK:316:VAL:CG2	2.10	0.76
1:CE:255:ILE:HG23	1:CE:261:ILE:CD1	2.15	0.76
1:aG:38:LYS:HD3	1:BK:220:ARG:O	1.85	0.76
4:BI:251:TRP:NE1	3:AN:208:LYS:HD2	2.00	0.76
1:AK:375:TRP:CG	1:KP:367:PRO:HB2	2.18	0.76
2:HK:8:ARG:NH1	1:jR:374:HIS:CE1	2.53	0.76
1:LK:45:MET:HB2	1:KP:14:VAL:HG23	0.78	0.76
1:LK:145:LEU:HD23	1:DP:80:ASP:HB3	1.67	0.76
2:MK:2:TYR:HE2	1:KP:153:LEU:HD12	1.44	0.76
5:DM:30:PRO:CG	1:IS:140:PHE:CE2	2.68	0.76
3:AO:64:GLN:C	1:IS:146:ALA:CB	2.50	0.76
4:BO:117:GLU:HB2	4:BO:220:THR:HG23	1.68	0.76
2:MR:45:ILE:CG1	2:MR:46:HIS:N	2.36	0.76
1:C1:367:PRO:CG	1:bQ:375:TRP:CZ3	2.68	0.76
1:S1:47:GLU:HB3	1:Q8:20:SER:CB	2.14	0.76
1:Z1:22:LEU:HD22	1:IR:47:GLU:CD	2.09	0.76
1:C3:372:VAL:HG21	2:H4:10:MET:HB2	1.67	0.76
1:I3:48:THR:CG2	1:SL:137:ASP:OD1	2.32	0.76
1:R3:115:ARG:HH22	1:I8:300:TYR:HA	1.47	0.76
1:S3:22:LEU:HD22	1:CR:47:GLU:CD	2.09	0.76
1:T4:145:LEU:N	1:BS:82:ILE:HD12	2.00	0.76
1:g4:116:MET:HE1	1:CD:54:LEU:HD21	0.78	0.76
3:A5:194:ASN:CG	5:EO:36:ALA:CA	2.53	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B5:251:TRP:NE1	3:AH:208:LYS:HD2	2.00	0.76
5:E5:57:GLU:CA	4:BH:33:TYR:CZ	2.65	0.76
5:C5:266:THR:CB	5:NI:230:SER:CA	2.49	0.76
1:I6:372:VAL:HG21	2:PL:10:MET:HB2	1.68	0.76
1:Y6:372:VAL:HG21	2:PG:10:MET:HB2	1.67	0.76
1:I7:302:ASP:CG	1:CQ:29:TYR:HH	1.92	0.76
1:Q7:367:PRO:CG	1:YL:375:TRP:CZ3	2.68	0.76
2:f7:10:MET:HB2	1:I8:372:VAL:HG21	1.67	0.76
1:i7:255:ILE:HG23	1:i7:261:ILE:CD1	2.15	0.76
1:I8:47:GLU:CD	1:KR:22:LEU:HD22	2.09	0.76
1:I8:208:LEU:CD1	1:I8:391:ILE:HD12	1.95	0.76
1:g8:58:ILE:HB	1:BS:55:PHE:HE2	1.48	0.76
1:DD:130:LYS:CB	1:KS:368:GLU:OE1	2.32	0.76
1:KD:136:ASN:HD21	1:JS:99:MET:HE2	1.49	0.76
1:LD:302:ASP:OD2	1:YG:29:TYR:OH	2.02	0.76
1:BE:81:PHE:HE1	1:CP:140:PHE:CE1	2.04	0.76
1:KE:375:TRP:CZ3	1:QQ:367:PRO:CG	2.68	0.76
1:UE:255:ILE:HG23	1:UE:261:ILE:CD1	2.15	0.76
4:BI:30:LEU:CB	5:EM:64:TRP:CG	2.62	0.76
1:AJ:375:TRP:CB	1:JS:367:PRO:HB2	2.13	0.76
1:KJ:55:PHE:CE2	1:LP:58:ILE:HG22	2.19	0.76
1:LJ:363:PRO:HG2	2:ES:9:SER:HB2	1.67	0.76
1:CK:139:ARG:HG3	1:hR:81:PHE:CD2	2.20	0.76
1:LK:22:LEU:HD21	1:KP:48:THR:C	2.11	0.76
2:XL:10:MET:HB2	1:YL:372:VAL:HG21	1.68	0.76
5:NM:231:ASN:CA	5:CO:265:LEU:HD13	2.14	0.76
1:QQ:321:VAL:HG22	1:QQ:327:PHE:HD2	1.49	0.76
1:IS:62:LEU:CG	1:JS:88:GLU:CB	2.63	0.76
1:S1:137:ASP:OD2	1:Q8:49:PHE:HB3	1.85	0.76
1:X1:47:GLU:CD	1:K8:22:LEU:HD22	2.09	0.76
1:X1:372:VAL:HG21	2:X3:10:MET:HB2	1.67	0.76
2:m1:10:MET:HB2	1:gR:372:VAL:HG21	1.68	0.76
1:I3:208:LEU:CD1	1:I3:391:ILE:HD11	2.16	0.76
1:Q3:38:LYS:HD3	1:X4:222:SER:HA	1.66	0.76
1:C4:367:PRO:CG	1:CG:375:TRP:CZ3	2.68	0.76
1:T4:32:SER:HA	1:BS:125:ILE:CD1	2.16	0.76
3:A5:208:LYS:HD2	4:BO:251:TRP:NE1	2.00	0.76
1:Q6:53:TYR:CD1	1:LJ:223:GLY:CA	2.68	0.76
2:f6:10:MET:HB2	1:QQ:372:VAL:HG21	1.67	0.76
1:i6:38:LYS:HD3	1:BJ:220:ARG:O	1.85	0.76
1:C7:29:TYR:O	1:LK:315:ALA:CB	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:29:TYR:CE2	1:LK:317:PHE:HE1	2.02	0.76
1:B7:38:LYS:HD3	1:BP:220:ARG:O	1.85	0.76
1:Q7:139:ARG:HD2	1:YL:81:PHE:HD2	1.25	0.76
1:S7:255:ILE:HG23	1:S7:261:ILE:CD1	2.15	0.76
1:a7:137:ASP:OD2	1:KE:49:PHE:HB3	1.85	0.76
1:Q8:208:LEU:CD1	1:Q8:391:ILE:HD11	2.16	0.76
1:Y8:375:TRP:CZ3	1:bQ:367:PRO:CG	2.68	0.76
1:a8:22:LEU:HD22	1:bQ:47:GLU:CD	2.09	0.76
1:g8:13:LEU:O	1:BS:45:MET:HG2	1.86	0.76
1:g8:47:GLU:CD	1:BS:22:LEU:HD22	2.10	0.76
2:n8:10:MET:HB2	1:IQ:372:VAL:HG21	1.67	0.76
4:B9:30:LEU:CB	5:EC:64:TRP:CE2	2.62	0.76
4:B9:251:TRP:NE1	3:AB:208:LYS:HD2	2.00	0.76
5:C9:248:GLN:HB3	5:NA:230:SER:OG	1.86	0.76
3:AA:208:LYS:HD2	4:BH:251:TRP:NE1	2.01	0.76
5:DB:52:LEU:CA	3:AM:6:ARG:HH22	1.97	0.76
1:AD:145:LEU:HB2	3:AF:37:GLU:CG	2.14	0.76
1:DD:123:ASN:HD22	1:KS:21:ALA:HB1	1.49	0.76
1:DD:222:SER:OG	1:KS:53:TYR:CD1	2.39	0.76
1:KD:100:ASP:CA	1:KK:25:PHE:HA	2.13	0.76
1:BE:81:PHE:CD2	1:CP:139:ARG:HG3	2.20	0.76
1:KE:321:VAL:HG22	1:KE:327:PHE:HD2	1.49	0.76
1:cE:137:ASP:OD1	1:CG:48:THR:CG2	2.32	0.76
1:BG:255:ILE:HG23	1:BG:261:ILE:CD1	2.15	0.76
3:AI:197:VAL:CG1	5:EM:37:ASP:HB2	2.15	0.76
3:AI:208:LYS:HD2	4:BM:251:TRP:NE1	2.00	0.76
1:KJ:100:ASP:CA	1:JS:25:PHE:HA	2.12	0.76
1:AK:62:LEU:CG	1:KK:88:GLU:CB	2.64	0.76
1:YL:49:PHE:HB3	1:SR:137:ASP:OD2	1.85	0.76
1:aL:255:ILE:HG23	1:aL:261:ILE:CD1	2.15	0.76
1:C1:81:PHE:CD2	1:Y8:139:ARG:HD3	2.21	0.76
1:T1:27:HIS:CG	1:CJ:312:PRO:HD3	2.20	0.76
5:N2:230:SER:CA	5:CB:266:THR:CB	2.49	0.76
1:I3:49:PHE:HB3	1:SL:137:ASP:OD2	1.85	0.76
1:C4:38:LYS:HD3	1:CG:222:SER:HA	1.65	0.76
1:B4:22:LEU:HD22	1:aE:47:GLU:CD	2.09	0.76
1:Q4:49:PHE:HB3	1:KL:137:ASP:OD2	1.85	0.76
1:Q4:375:TRP:CZ3	1:IQ:367:PRO:CG	2.68	0.76
1:T4:144:THR:O	1:BS:82:ILE:CD1	2.12	0.76
1:f4:139:ARG:HD3	1:C6:81:PHE:CD2	2.21	0.76
1:f4:375:TRP:CZ3	1:gG:367:PRO:CG	2.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g4:118:THR:HG21	1:CD:53:TYR:C	2.10	0.76
1:h4:22:LEU:HD22	1:gG:47:GLU:CD	2.09	0.76
1:h4:255:ILE:HG23	1:h4:261:ILE:CD1	2.15	0.76
3:A5:6:ARG:HH22	5:DO:52:LEU:CA	1.98	0.76
3:A5:197:VAL:CG1	5:EO:37:ASP:HB2	2.15	0.76
1:K6:137:ASP:OD2	1:CL:49:PHE:HB3	1.85	0.76
1:Q6:13:LEU:O	1:CJ:45:MET:HG2	1.86	0.76
1:Q6:27:HIS:O	1:AJ:100:ASP:CG	2.28	0.76
1:Y6:81:PHE:CD2	1:SE:139:ARG:HD3	2.21	0.76
1:g6:47:GLU:CD	1:CP:22:LEU:HD22	2.10	0.76
1:g6:54:LEU:HA	1:LP:118:THR:HG23	1.66	0.76
1:I7:222:SER:HA	1:CQ:38:LYS:HD3	1.66	0.76
1:K7:137:ASP:OD1	1:CQ:48:THR:CG2	2.32	0.76
1:g7:222:SER:HA	1:C8:38:LYS:HD3	1.66	0.76
1:g8:29:TYR:OH	1:KS:302:ASP:OD2	2.02	0.76
1:g8:54:LEU:HA	1:KS:118:THR:HG23	1.66	0.76
5:E9:140:ASP:HB3	5:C9:139:LYS:HB2	1.63	0.76
3:AA:112:ILE:HB	2:MK:13:THR:OG1	1.85	0.76
5:EA:140:ASP:HB2	5:CA:139:LYS:CE	2.10	0.76
1:AD:43:ASN:CB	5:DF:25:ARG:HA	2.16	0.76
1:LD:53:TYR:CD1	1:DK:222:SER:OG	2.39	0.76
1:LD:57:LYS:HE3	1:KK:61:THR:CG2	2.05	0.76
1:aE:222:SER:HA	1:CG:38:LYS:HD3	1.66	0.76
1:cE:22:LEU:HD22	1:CG:47:GLU:CD	2.09	0.76
5:DF:52:LEU:CA	3:AO:6:ARG:HH22	1.97	0.76
5:NF:230:SER:OG	5:CM:248:GLN:HB3	1.86	0.76
1:bG:108:MET:HG3	1:BK:366:ASN:OD1	1.86	0.76
5:CH:266:THR:CB	5:NN:230:SER:CA	2.49	0.76
3:AI:6:ARG:NH2	5:DM:52:LEU:CA	2.45	0.76
1:DJ:80:ASP:HB3	1:LP:145:LEU:HD23	1.67	0.76
1:DJ:302:ASP:HB2	1:LP:29:TYR:CZ	2.18	0.76
1:CL:222:SER:HA	1:YR:38:LYS:HD3	1.66	0.76
1:BL:137:ASP:OD1	1:YR:48:THR:CG2	2.32	0.76
1:YL:367:PRO:CG	1:QR:375:TRP:CZ3	2.68	0.76
5:OM:386:ASN:OD1	5:CO:263:LYS:HE2	1.86	0.76
4:BN:117:GLU:HB2	4:BN:220:THR:HG23	1.68	0.76
1:CQ:372:VAL:HG21	2:iQ:10:MET:HB2	1.68	0.76
1:I1:53:TYR:CD1	1:SE:222:SER:OG	2.39	0.76
1:Q1:222:SER:HA	1:Q8:38:LYS:HD3	1.65	0.76
1:Z1:137:ASP:OD1	1:IR:48:THR:CG2	2.32	0.76
3:A2:6:ARG:HH22	5:DA:52:LEU:CA	1.97	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:208:LYS:HD2	4:BA:251:TRP:NE1	2.00	0.76
1:C3:367:PRO:CG	1:QG:375:TRP:CZ3	2.68	0.76
1:T4:27:HIS:CG	1:BS:312:PRO:HD3	2.20	0.76
1:g4:81:PHE:HE1	1:CD:140:PHE:CE1	2.04	0.76
1:I6:49:PHE:HB3	1:aR:137:ASP:OD2	1.85	0.76
1:I6:53:TYR:CD1	1:YR:222:SER:OG	2.39	0.76
1:Q6:26:ASN:CA	1:AJ:100:ASP:OD1	2.34	0.76
1:Q6:82:ILE:HG13	1:CS:142:PHE:O	1.86	0.76
1:Q6:321:VAL:HG22	1:Q6:327:PHE:HD2	1.49	0.76
1:S6:14:VAL:CB	1:CS:14:VAL:CG1	2.62	0.76
1:Y6:375:TRP:CZ3	1:SE:367:PRO:CG	2.68	0.76
1:i6:13:LEU:C	1:DJ:45:MET:SD	2.63	0.76
1:g7:139:ARG:HD3	1:AE:81:PHE:CD2	2.21	0.76
1:I8:49:PHE:HB3	1:KR:137:ASP:OD2	1.85	0.76
1:a8:255:ILE:HG23	1:a8:261:ILE:CD1	2.15	0.76
1:AD:123:ASN:HD22	1:KK:21:ALA:HB2	1.31	0.76
1:AD:375:TRP:CG	1:KK:368:GLU:OE2	2.12	0.76
1:KD:28:ASP:HB2	1:IS:304:GLN:HE21	1.49	0.76
1:LD:314:GLY:CA	1:YG:31:LYS:HG2	2.13	0.76
1:KE:364:PHE:HZ	1:JR:108:MET:CE	1.90	0.76
2:nG:10:MET:HB2	1:YR:372:VAL:HG21	1.68	0.76
1:KJ:32:SER:HB2	1:AP:316:VAL:HG21	1.67	0.76
1:KJ:372:VAL:C	2:MP:11:MET:HE1	2.08	0.76
1:LJ:53:TYR:CD1	1:CS:222:SER:OG	2.39	0.76
1:BK:261:ILE:HG23	1:BK:265:ASP:OD1	1.83	0.76
1:CK:375:TRP:CE3	1:jR:367:PRO:CG	2.68	0.76
1:KL:255:ILE:HG23	1:KL:261:ILE:CD1	2.15	0.76
1:CQ:81:PHE:CD2	1:gR:139:ARG:HD3	2.21	0.76
1:CQ:222:SER:OG	1:gR:53:TYR:CD1	2.39	0.76
1:BQ:137:ASP:OD2	1:gR:49:PHE:HB3	1.85	0.76
1:bQ:321:VAL:HG22	1:bQ:327:PHE:HD2	1.49	0.76
1:BR:255:ILE:HG23	1:BR:261:ILE:CD1	2.15	0.76
1:I1:375:TRP:CZ3	1:Y6:367:PRO:CG	2.68	0.76
1:X1:367:PRO:CG	1:I8:375:TRP:CZ3	2.68	0.76
1:f1:222:SER:OG	1:QG:53:TYR:CD1	2.39	0.76
1:h1:137:ASP:OD2	1:QG:49:PHE:HB3	1.85	0.76
4:B2:117:GLU:HB2	4:B2:220:THR:HG23	1.67	0.76
4:B2:251:TRP:NE1	3:AF:208:LYS:HD2	2.00	0.76
1:I3:139:ARG:HD3	1:QL:81:PHE:CD2	2.21	0.76
1:Q3:222:SER:OG	1:CR:53:TYR:CD1	2.39	0.76
1:Q3:367:PRO:CG	1:X4:375:TRP:CZ3	2.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q4:53:TYR:CD1	1:IL:222:SER:OG	2.39	0.76
1:R4:174:MET:SD	1:BS:33:TRP:HB2	2.25	0.76
2:U4:10:MET:HB3	1:BS:372:VAL:HG21	1.68	0.76
1:h4:137:ASP:OD2	1:gG:49:PHE:HB3	1.85	0.76
5:C5:265:LEU:CD1	5:NI:231:ASN:CB	2.14	0.76
5:N5:231:ASN:CA	5:CN:265:LEU:HD13	2.15	0.76
1:I6:139:ARG:HD3	1:YR:81:PHE:CD2	2.21	0.76
1:I6:222:SER:HA	1:CL:38:LYS:HD3	1.66	0.76
1:I6:280:PHE:HE2	1:I6:320:ASP:HA	1.51	0.76
1:Q6:47:GLU:CD	1:CJ:22:LEU:HD22	2.10	0.76
1:g6:47:GLU:N	1:CP:19:LYS:NZ	2.33	0.76
1:i6:49:PHE:CD1	1:DJ:22:LEU:HD11	2.20	0.76
1:I7:49:PHE:HB3	1:iR:137:ASP:OD2	1.85	0.76
1:Y7:222:SER:OG	1:KE:53:TYR:CD1	2.39	0.76
1:a7:47:GLU:HB3	1:KE:20:SER:CB	2.14	0.76
1:g7:81:PHE:CD2	1:C8:139:ARG:HD3	2.21	0.76
1:g7:222:SER:OG	1:C8:53:TYR:CD1	2.39	0.76
1:g7:367:PRO:CG	1:AE:375:TRP:CZ3	2.68	0.76
1:C8:375:TRP:CZ3	1:AE:367:PRO:CG	2.68	0.76
1:K8:255:ILE:HG23	1:K8:261:ILE:CD1	2.15	0.76
1:Q8:222:SER:HA	1:IG:38:LYS:HD3	1.66	0.76
1:g8:47:GLU:N	1:BS:19:LYS:NZ	2.33	0.76
4:B9:117:GLU:HB2	4:B9:220:THR:HG23	1.68	0.76
3:AA:197:VAL:CG2	5:EH:37:ASP:OD2	2.25	0.76
5:CA:248:GLN:HB3	5:NC:230:SER:OG	1.86	0.76
5:EB:37:ASP:HB2	3:AM:197:VAL:CG1	2.15	0.76
5:EB:57:GLU:HA	4:BM:33:TYR:HH	1.47	0.76
4:BC:33:TYR:CZ	5:EN:57:GLU:CA	2.65	0.76
1:KD:99:MET:HE2	1:KK:136:ASN:HD21	1.49	0.76
1:LD:223:GLY:CA	1:YG:53:TYR:CD1	2.68	0.76
1:AE:321:VAL:HG22	1:AE:327:PHE:HD2	1.49	0.76
1:KE:302:ASP:CG	1:QQ:29:TYR:HH	1.94	0.76
1:aG:49:PHE:CD1	1:DK:22:LEU:HD11	2.20	0.76
1:gG:321:VAL:HG22	1:gG:327:PHE:HD2	1.49	0.76
4:BI:32:PHE:CE1	5:FM:51:ARG:HD3	2.19	0.76
1:AJ:223:GLY:CA	1:JS:53:TYR:CG	2.69	0.76
1:AK:60:GLU:HB3	1:KK:87:GLU:O	1.86	0.76
1:AK:128:LYS:HE3	1:KP:368:GLU:O	1.86	0.76
1:LK:29:TYR:CZ	1:DP:302:ASP:HB2	2.18	0.76
1:CQ:375:TRP:CZ3	1:gR:367:PRO:CG	2.68	0.76
1:SR:255:ILE:HG23	1:SR:261:ILE:CD1	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:137:ASP:OD1	1:Y8:48:THR:CG2	2.32	0.76
1:Q1:81:PHE:CD2	1:Q8:139:ARG:HD3	2.21	0.76
3:A2:202:ASN:HD21	5:DC:38:TYR:CB	1.98	0.76
5:D2:38:TYR:CB	3:AM:202:ASN:HD21	1.99	0.76
5:C2:263:LYS:HE2	5:O9:386:ASN:OD1	1.86	0.76
1:I3:38:LYS:HD3	1:QL:222:SER:HA	1.65	0.76
1:K3:22:LEU:HD22	1:I4:47:GLU:CD	2.09	0.76
1:Q3:71:ARG:NH2	1:J8:210:ASN:ND2	2.29	0.76
1:C4:49:PHE:HB3	1:BG:137:ASP:OD2	1.85	0.76
1:B4:137:ASP:OD2	1:aE:49:PHE:HB3	1.85	0.76
1:I4:375:TRP:CZ3	1:QL:367:PRO:CG	2.68	0.76
1:R4:81:PHE:CD2	1:BS:139:ARG:HG3	2.20	0.76
1:R4:116:MET:HE1	1:BS:54:LEU:HD21	0.78	0.76
1:X4:47:GLU:CD	1:BR:22:LEU:HD22	2.09	0.76
1:f4:321:VAL:HG22	1:f4:327:PHE:HD2	1.49	0.76
1:A6:108:MET:CE	1:Y8:364:PHE:HZ	1.90	0.76
1:B6:255:ILE:HG23	1:B6:261:ILE:CD1	2.15	0.76
1:S6:367:PRO:CG	1:AS:375:TRP:CE3	2.62	0.76
1:g6:29:TYR:C	1:LP:315:ALA:HB1	2.09	0.76
1:I7:208:LEU:CD1	1:I7:391:ILE:HD11	2.15	0.76
1:Q7:38:LYS:HD3	1:YL:222:SER:HA	1.66	0.76
1:Y7:49:PHE:HB3	1:SQ:137:ASP:OD2	1.85	0.76
1:Y7:375:TRP:CZ3	1:KE:367:PRO:CG	2.68	0.76
1:B8:22:LEU:HD22	1:AE:47:GLU:CD	2.09	0.76
1:g8:31:LYS:CG	1:KS:314:GLY:C	2.52	0.76
1:g8:45:MET:HB3	1:BS:19:LYS:HG2	1.66	0.76
5:C9:263:LYS:HE2	5:OA:386:ASN:OD1	1.86	0.76
5:NB:230:SER:OG	5:CF:248:GLN:HB3	1.86	0.76
3:AC:6:ARG:HH22	5:DN:52:LEU:CA	1.97	0.76
3:AC:197:VAL:CG1	5:EN:37:ASP:HB2	2.15	0.76
1:AD:100:ASP:OD1	1:YG:26:ASN:CA	2.34	0.76
1:AD:316:VAL:HG21	1:KK:32:SER:HB2	1.67	0.76
1:CD:45:MET:CE	1:YG:14:VAL:CG1	2.62	0.76
2:FD:9:SER:HB2	1:KS:363:PRO:HG2	1.67	0.76
1:KD:367:PRO:HB2	1:IS:375:TRP:CB	2.13	0.76
1:LD:177:ASP:OD2	1:YG:33:TRP:HZ2	1.68	0.76
1:BE:174:MET:SD	1:CP:33:TRP:HB2	2.25	0.76
1:KE:222:SER:OG	1:QQ:53:TYR:CD1	2.39	0.76
1:ME:22:LEU:HD22	1:QQ:47:GLU:CD	2.09	0.76
5:EF:37:ASP:HB2	3:AO:197:VAL:CG1	2.15	0.76
5:EI:37:ASP:HB2	3:AN:197:VAL:CG1	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:116:MET:CG	1:JS:51:ASN:HD22	1.99	0.76
1:AJ:375:TRP:CD1	1:JS:368:GLU:CA	2.68	0.76
1:LJ:22:LEU:HB2	1:JS:47:GLU:OE1	1.84	0.76
1:LK:109:LEU:HD21	1:iR:106:GLU:N	1.98	0.76
1:RL:108:MET:CE	1:YL:364:PHE:HZ	1.90	0.76
1:BQ:47:GLU:HG3	1:gR:22:LEU:HB2	1.68	0.76
1:BQ:255:ILE:HG23	1:BQ:261:ILE:CD1	2.15	0.76
2:XQ:10:MET:HB2	1:QR:372:VAL:HG21	1.68	0.76
1:QR:321:VAL:HG22	1:QR:327:PHE:HD2	1.49	0.76
1:gR:280:PHE:HE2	1:gR:320:ASP:HA	1.51	0.76
1:gR:321:VAL:HG22	1:gR:327:PHE:HD2	1.49	0.76
1:B1:255:ILE:HG23	1:B1:261:ILE:CD1	2.15	0.76
2:H1:10:MET:HB2	1:f4:372:VAL:HG21	1.67	0.76
1:I1:139:ARG:HD3	1:SE:81:PHE:CD2	2.21	0.76
1:X1:53:TYR:CD1	1:I8:222:SER:OG	2.39	0.76
2:H3:10:MET:HB2	1:C8:372:VAL:HG21	1.67	0.76
1:Q3:372:VAL:HG21	2:f8:10:MET:HB2	1.67	0.76
4:B5:193:VAL:N	4:BI:146:ALA:O	2.18	0.76
5:E5:37:ASP:HB2	3:AH:197:VAL:CG1	2.15	0.76
2:H6:10:MET:HB2	1:Y8:372:VAL:HG21	1.67	0.76
1:I6:22:LEU:HB2	1:aR:47:GLU:HG3	1.68	0.76
1:I6:321:VAL:HG22	1:I6:327:PHE:HD2	1.49	0.76
1:I6:367:PRO:CG	1:YR:375:TRP:CZ3	2.68	0.76
1:Q6:148:ALA:HB3	2:NJ:15:TYR:HE2	1.46	0.76
1:S6:255:ILE:HG23	1:S6:261:ILE:CD1	2.15	0.76
1:Y6:321:VAL:HG22	1:Y6:327:PHE:HD2	1.49	0.76
1:Y6:364:PHE:HZ	1:JG:108:MET:CE	1.90	0.76
1:g6:13:LEU:O	1:CP:45:MET:HG2	1.86	0.76
1:I7:375:TRP:CZ3	1:CQ:367:PRO:CG	2.68	0.76
1:K7:47:GLU:HB3	1:CQ:20:SER:CB	2.14	0.76
1:K7:47:GLU:HG3	1:CQ:22:LEU:HB2	1.68	0.76
1:Y7:53:TYR:CD1	1:QQ:222:SER:OG	2.39	0.76
1:a7:255:ILE:HG23	1:a7:261:ILE:CD1	2.15	0.76
1:g7:53:TYR:CD1	1:AE:222:SER:OG	2.39	0.76
1:I8:22:LEU:HB2	1:KR:47:GLU:HG3	1.68	0.76
1:a8:137:ASP:OD2	1:bQ:49:PHE:HB3	1.85	0.76
3:A9:208:LYS:HD2	4:BC:251:TRP:NE1	2.01	0.76
5:C9:265:LEU:CG	5:NA:231:ASN:HB2	2.11	0.76
3:AC:208:LYS:HD2	4:BN:251:TRP:NE1	2.00	0.76
1:CD:45:MET:HG2	1:YG:13:LEU:O	1.86	0.76
1:KD:48:THR:C	1:KS:22:LEU:HD21	2.11	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:367:PRO:HB2	1:IS:375:TRP:CG	2.18	0.76
1:LD:37:ASP:C	1:DK:119:LYS:HG3	2.09	0.76
1:LD:363:PRO:HG2	2:FK:9:SER:HB2	1.67	0.76
1:FE:32:SER:HA	1:CP:125:ILE:CD1	2.16	0.76
4:BF:251:TRP:NE1	3:AO:208:LYS:HD2	2.00	0.76
3:AI:197:VAL:CG2	5:EM:37:ASP:OD2	2.25	0.76
5:CI:263:LYS:HE2	5:OO:386:ASN:OD1	1.86	0.76
1:BJ:99:MET:O	1:LP:25:PHE:HB3	1.85	0.76
1:CK:54:LEU:HD21	1:hR:116:MET:HE1	0.78	0.76
1:CK:125:ILE:CD1	1:jR:32:SER:HA	2.16	0.76
1:BL:47:GLU:HB3	1:YR:20:SER:CB	2.14	0.76
1:BL:47:GLU:HG3	1:YR:22:LEU:HB2	1.68	0.76
1:CQ:280:PHE:HE2	1:CQ:320:ASP:HA	1.51	0.76
1:YQ:109:LEU:O	1:KS:105:GLU:CD	2.13	0.76
1:aR:255:ILE:HG23	1:aR:261:ILE:CD1	2.15	0.76
1:K1:22:LEU:HD22	1:Y6:47:GLU:CD	2.09	0.76
1:Q1:367:PRO:CG	1:IG:375:TRP:CZ3	2.68	0.76
1:S1:22:LEU:HD22	1:Q8:47:GLU:CD	2.09	0.76
3:A2:194:ASN:CG	5:EA:36:ALA:CA	2.53	0.76
5:C2:248:GLN:HB3	5:N9:230:SER:OG	1.86	0.76
1:I3:222:SER:HA	1:I4:38:LYS:HD3	1.66	0.76
1:Q3:20:SER:CB	1:Z4:47:GLU:HB3	2.14	0.76
2:Z3:45:ILE:CG1	2:Z3:46:HIS:N	2.36	0.76
1:C4:81:PHE:CD2	1:aE:139:ARG:HD3	2.21	0.76
1:C4:208:LEU:HD11	1:C4:391:ILE:HD13	1.46	0.76
1:C4:375:TRP:CZ3	1:aE:367:PRO:CG	2.68	0.76
1:B4:255:ILE:HG23	1:B4:261:ILE:CD1	2.15	0.76
1:f4:48:THR:CG2	1:B6:137:ASP:OD1	2.32	0.76
5:C5:263:LYS:HE2	5:OI:386:ASN:OD1	1.85	0.76
1:S6:368:GLU:OE1	1:BS:107:LEU:HD23	1.86	0.76
1:Y6:222:SER:OG	1:SE:53:TYR:CD1	2.39	0.76
1:g6:54:LEU:HD23	1:LP:118:THR:HG23	1.68	0.76
1:j6:108:MET:HG3	1:BJ:366:ASN:OD1	1.86	0.76
2:n6:10:MET:HB2	1:g7:372:VAL:HG21	1.67	0.76
1:I7:38:LYS:HD3	1:gR:222:SER:HA	1.66	0.76
1:g7:49:PHE:HB3	1:CE:137:ASP:OD2	1.85	0.76
1:S8:22:LEU:HD22	1:IG:47:GLU:CD	2.09	0.76
1:S8:137:ASP:OD2	1:IG:49:PHE:HB3	1.85	0.76
1:Y8:321:VAL:HG22	1:Y8:327:PHE:HD2	1.49	0.76
1:g8:53:TYR:CD1	1:KS:223:GLY:CA	2.69	0.76
1:g8:310:THR:HG21	1:DD:27:HIS:HE1	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i8:255:ILE:HG23	1:i8:261:ILE:CD1	2.15	0.76
1:j8:108:MET:HG3	1:BD:366:ASN:OD1	1.86	0.76
3:A9:197:VAL:CG1	5:EC:37:ASP:HB2	2.15	0.76
1:AD:145:LEU:HD21	3:AF:34:ARG:N	2.00	0.76
1:KD:368:GLU:O	1:IS:128:LYS:HE3	1.86	0.76
1:BE:221:ALA:HA	1:CP:38:LYS:HD3	0.77	0.76
6:LF:99:GLN:C	2:LS:3:GLU:CD	2.48	0.76
1:IG:208:LEU:CD1	1:IG:391:ILE:HD11	2.15	0.76
5:CH:248:GLN:HB3	5:NN:230:SER:OG	1.86	0.76
5:CH:263:LYS:HE2	5:ON:386:ASN:OD1	1.86	0.76
4:BI:117:GLU:HB2	4:BI:220:THR:HG23	1.67	0.76
2:GJ:54:THR:OG1	2:MP:2:TYR:CD1	2.38	0.76
1:CK:372:VAL:HG21	2:kR:10:MET:HB3	1.68	0.76
1:LK:54:LEU:HA	1:DP:118:THR:OG1	1.85	0.76
1:CL:208:LEU:CD1	1:CL:391:ILE:HD11	2.15	0.76
1:CL:375:TRP:CZ3	1:YR:367:PRO:CG	2.68	0.76
1:YL:20:SER:CB	1:SR:47:GLU:HB3	2.14	0.76
1:YL:208:LEU:CD1	1:YL:391:ILE:HD11	2.15	0.76
5:NM:230:SER:OG	5:CO:248:GLN:HB3	1.86	0.76
1:YR:280:PHE:HE2	1:YR:320:ASP:HA	1.51	0.76
1:gR:208:LEU:CD1	1:gR:391:ILE:HD12	1.95	0.76
1:C1:375:TRP:CZ3	1:Y8:367:PRO:CG	2.68	0.75
1:I1:372:VAL:HG21	2:PQ:10:MET:HB2	1.67	0.75
1:Q1:375:TRP:CZ3	1:Q8:367:PRO:CG	2.68	0.75
3:A2:114:PHE:CD1	2:GK:25:GLU:HB3	2.20	0.75
4:B2:33:TYR:CZ	5:EA:57:GLU:CA	2.65	0.75
1:K3:255:ILE:HG23	1:K3:261:ILE:CD1	2.15	0.75
1:S3:255:ILE:HG23	1:S3:261:ILE:CD1	2.15	0.75
1:L4:325:LYS:HB2	1:L4:325:LYS:HZ2	1.51	0.75
1:R4:81:PHE:HE1	1:BS:140:PHE:CE1	2.04	0.75
1:f4:367:PRO:CG	1:C6:375:TRP:CZ3	2.68	0.75
5:C5:248:GLN:HB3	5:NI:230:SER:OG	1.86	0.75
1:a6:137:ASP:OD2	1:SE:49:PHE:HB3	1.85	0.75
1:g6:26:ASN:CA	1:AP:100:ASP:OD1	2.33	0.75
1:g6:31:LYS:HG2	1:LP:314:GLY:CA	2.13	0.75
1:C7:13:LEU:O	1:CK:45:MET:HG2	1.86	0.75
1:C7:29:TYR:OH	1:LK:302:ASP:OD2	2.02	0.75
1:C7:53:TYR:CD1	1:LK:223:GLY:CA	2.69	0.75
1:D7:108:MET:HG3	1:BP:366:ASN:OD1	1.86	0.75
1:I7:47:GLU:CD	1:iR:22:LEU:HD22	2.09	0.75
1:Q7:49:PHE:HB3	1:aL:137:ASP:OD2	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q7:81:PHE:CD2	1:QR:139:ARG:HD3	2.21	0.75
1:Q7:222:SER:OG	1:QR:53:TYR:CD1	2.39	0.75
1:i7:137:ASP:OD2	1:C8:49:PHE:HB3	1.85	0.75
1:i8:38:LYS:HD3	1:BD:220:ARG:O	1.85	0.75
1:AD:128:LYS:HE3	1:KK:368:GLU:O	1.86	0.75
1:KD:28:ASP:CA	1:IS:304:GLN:NE2	2.41	0.75
1:LD:31:LYS:CD	1:DK:316:VAL:HG12	2.04	0.75
1:LD:368:GLU:OE2	1:DK:375:TRP:CA	2.27	0.75
1:BE:116:MET:HE1	1:CP:54:LEU:HD21	0.78	0.75
1:BE:118:THR:HG21	1:CP:53:TYR:C	2.10	0.75
1:CG:372:VAL:HG21	2:HR:10:MET:HB2	1.67	0.75
4:BI:33:TYR:CZ	5:EM:57:GLU:CA	2.65	0.75
5:EI:21:ILE:HG22	5:EO:55:LEU:HD22	1.62	0.75
5:FI:51:ARG:HD3	4:BN:32:PHE:CE1	2.19	0.75
1:KJ:47:GLU:OE1	1:LP:22:LEU:HB2	1.84	0.75
1:KJ:78:GLU:HG2	3:AN:66:ILE:HG21	1.68	0.75
1:LJ:25:PHE:HB3	1:AS:99:MET:O	1.86	0.75
1:LJ:38:LYS:CG	1:CS:119:LYS:HZ3	1.96	0.75
1:LJ:145:LEU:HD23	1:CS:80:ASP:HB3	1.67	0.75
1:LJ:368:GLU:OE2	1:CS:375:TRP:CA	2.27	0.75
1:AK:223:GLY:CA	1:KP:53:TYR:CG	2.69	0.75
1:CK:38:LYS:HD3	1:hR:221:ALA:HA	0.77	0.75
4:BM:146:ALA:O	4:BO:193:VAL:N	2.18	0.75
2:MQ:45:ILE:CG1	2:MQ:46:HIS:N	2.36	0.75
1:dQ:255:ILE:HG23	1:dQ:261:ILE:CD1	2.15	0.75
1:CR:280:PHE:HE2	1:CR:320:ASP:HA	1.51	0.75
1:I1:49:PHE:HB3	1:UE:137:ASP:OD2	1.85	0.75
2:P1:10:MET:HB2	1:Q1:372:VAL:HG21	1.67	0.75
1:Q1:20:SER:CB	1:KG:47:GLU:HB3	2.13	0.75
5:E2:37:ASP:HB2	3:AF:197:VAL:CG1	2.15	0.75
5:C2:265:LEU:CD1	5:N9:231:ASN:CB	2.14	0.75
5:C2:265:LEU:HD13	5:N9:231:ASN:CA	2.15	0.75
1:I3:47:GLU:CD	1:SL:22:LEU:HD22	2.09	0.75
1:I3:222:SER:OG	1:I4:53:TYR:CD1	2.39	0.75
1:I3:367:PRO:CG	1:QL:375:TRP:CZ3	2.68	0.75
1:K3:137:ASP:OD2	1:I4:49:PHE:HB3	1.85	0.75
1:C4:139:ARG:HD3	1:CG:81:PHE:CD2	2.21	0.75
1:I4:208:LEU:CD1	1:I4:391:ILE:HD11	2.15	0.75
1:J4:108:MET:CE	1:AE:364:PHE:HZ	1.90	0.75
1:K4:47:GLU:HB3	1:QL:20:SER:CB	2.13	0.75
1:g4:118:THR:CB	1:CD:53:TYR:O	2.33	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g4:174:MET:SD	1:CD:33:TRP:HB2	2.25	0.75
1:i4:32:SER:HA	1:CD:125:ILE:CD1	2.16	0.75
1:i4:374:HIS:CE1	2:HD:8:ARG:NH1	2.53	0.75
5:D5:38:TYR:CB	3:AC:202:ASN:HD21	1.99	0.75
1:I6:208:LEU:CD1	1:I6:391:ILE:HD12	1.95	0.75
1:T6:108:MET:HG3	1:AS:366:ASN:OD1	1.86	0.75
1:Y6:208:LEU:CD1	1:Y6:391:ILE:HD11	2.15	0.75
1:Z6:85:TYR:HH	1:KE:46:PHE:HD1	1.35	0.75
1:C7:20:SER:CB	1:CK:47:GLU:CG	2.20	0.75
1:K7:255:ILE:HG23	1:K7:261:ILE:CD1	2.15	0.75
1:Q8:81:PHE:CD2	1:IG:139:ARG:HD3	2.21	0.75
1:S8:255:ILE:HG23	1:S8:261:ILE:CD1	2.15	0.75
1:g8:26:ASN:CA	1:IS:100:ASP:OD1	2.33	0.75
1:g8:148:ALA:CA	2:MS:15:TYR:CE2	2.63	0.75
1:DD:118:THR:OG1	1:KS:54:LEU:HA	1.85	0.75
2:MD:2:TYR:CD1	2:GK:54:THR:OG1	2.38	0.75
1:BE:118:THR:CB	1:CP:53:TYR:O	2.33	0.75
1:KE:222:SER:HA	1:QQ:38:LYS:HD3	1.66	0.75
2:RE:10:MET:HB2	1:SE:372:VAL:HG21	1.67	0.75
1:SE:248:SER:HG	1:JQ:202:PHE:HD2	1.32	0.75
1:QG:280:PHE:HE2	1:QG:320:ASP:HA	1.51	0.75
1:hG:108:MET:CE	1:YR:364:PHE:HZ	1.90	0.75
4:BI:193:VAL:N	4:BO:146:ALA:O	2.18	0.75
5:CI:265:LEU:CD1	5:NO:231:ASN:CB	2.14	0.75
1:KJ:78:GLU:CG	3:AN:66:ILE:HG21	2.16	0.75
1:AK:106:GLU:HA	1:hR:109:LEU:CD1	2.11	0.75
1:LK:58:ILE:HG22	1:KP:55:PHE:CE2	2.19	0.75
1:YL:139:ARG:HD3	1:QR:81:PHE:CD2	2.21	0.75
1:SQ:255:ILE:HG23	1:SQ:261:ILE:CD1	2.15	0.75
1:A1:108:MET:CE	1:f4:364:PHE:HZ	1.90	0.75
1:Q1:53:TYR:CD1	1:IG:222:SER:OG	2.39	0.75
1:T1:145:LEU:N	1:CJ:82:ILE:HD12	2.00	0.75
1:T1:374:HIS:CG	2:HJ:8:ARG:HH12	2.00	0.75
3:A2:197:VAL:CG1	5:EA:37:ASP:HB2	2.15	0.75
1:I3:81:PHE:CD2	1:I4:139:ARG:HD3	2.21	0.75
1:I4:222:SER:OG	1:QL:53:TYR:CD1	2.39	0.75
1:Q4:280:PHE:HE2	1:Q4:320:ASP:HA	1.51	0.75
1:f4:222:SER:OG	1:gG:53:TYR:CD1	2.39	0.75
1:i4:145:LEU:N	1:CD:82:ILE:HD12	2.00	0.75
4:B5:117:GLU:HB2	4:B5:220:THR:HG23	1.68	0.75
1:K6:22:LEU:HD22	1:CL:47:GLU:CD	2.09	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q6:310:THR:HG21	1:CS:27:HIS:HE1	1.51	0.75
1:S6:38:LYS:HD3	1:AS:220:ARG:O	1.85	0.75
1:A7:210:ASN:ND2	1:gR:71:ARG:NH2	2.29	0.75
2:H8:10:MET:HB2	1:QL:372:VAL:HG21	1.67	0.75
1:I8:139:ARG:HD3	1:IR:81:PHE:CD2	2.21	0.75
1:Q8:222:SER:OG	1:IG:53:TYR:CD1	2.39	0.75
1:g8:29:TYR:O	1:KS:315:ALA:CB	2.33	0.75
5:CC:248:GLN:HB3	5:NH:230:SER:OG	1.86	0.75
1:AD:62:LEU:CG	1:KD:88:GLU:CB	2.63	0.75
1:DD:119:LYS:HG3	1:KS:37:ASP:C	2.09	0.75
1:LD:31:LYS:HG2	1:DK:314:GLY:C	2.07	0.75
1:LD:365:HIS:CD2	2:FK:10:MET:CE	2.57	0.75
1:LD:369:PHE:CZ	1:BK:107:LEU:CG	2.68	0.75
1:aE:375:TRP:CZ3	1:CG:367:PRO:CG	2.68	0.75
1:iG:255:ILE:HG23	1:iG:261:ILE:CD1	2.15	0.75
1:AJ:128:LYS:HE3	1:JS:368:GLU:O	1.86	0.75
1:DJ:222:SER:OG	1:LP:53:TYR:CD1	2.39	0.75
1:KJ:28:ASP:CA	1:AP:304:GLN:NE2	2.41	0.75
1:CK:82:ILE:HD12	1:jR:145:LEU:N	2.00	0.75
1:BL:255:ILE:HG23	1:BL:261:ILE:CD1	2.15	0.75
1:CQ:364:PHE:HZ	1:cQ:108:MET:CE	1.90	0.75
1:IR:208:LEU:CD1	1:IR:391:ILE:HD11	2.16	0.75
1:C1:53:TYR:CD1	1:bQ:222:SER:OG	2.39	0.75
1:C1:372:VAL:HG21	2:P7:10:MET:HB2	1.67	0.75
1:I1:14:VAL:CG2	1:UE:14:VAL:CG2	2.65	0.75
1:T1:29:TYR:CA	1:LJ:98:ASN:ND2	2.46	0.75
4:B2:30:LEU:CB	5:EA:64:TRP:CE2	2.62	0.75
1:C3:47:GLU:CD	1:SG:22:LEU:HD22	2.09	0.75
1:I3:375:TRP:CZ3	1:I4:367:PRO:CG	2.68	0.75
1:X4:53:TYR:CD1	1:CR:222:SER:OG	2.39	0.75
1:i4:27:HIS:CG	1:CD:312:PRO:HD3	2.20	0.75
1:Q6:45:MET:CB	1:CJ:19:LYS:CG	2.14	0.75
1:Q6:54:LEU:HD23	1:LJ:118:THR:HG23	1.68	0.75
1:Q6:139:ARG:NH1	1:LJ:81:PHE:HD2	1.52	0.75
1:Q6:148:ALA:CA	2:NJ:15:TYR:CE2	2.63	0.75
1:Y6:46:PHE:HD1	1:LE:85:TYR:HH	1.34	0.75
1:g6:27:HIS:O	1:AP:100:ASP:CG	2.28	0.75
1:g6:53:TYR:CD1	1:LP:223:GLY:CA	2.68	0.75
1:S7:14:VAL:CG2	1:QR:14:VAL:CG2	2.65	0.75
1:i7:14:VAL:CG2	1:C8:14:VAL:CG2	2.65	0.75
2:M8:45:ILE:CG1	2:M8:46:HIS:N	2.36	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:280:PHE:HE2	1:Q8:320:ASP:HA	1.51	0.75
1:Y8:222:SER:OG	1:bQ:53:TYR:CD1	2.39	0.75
1:i8:368:GLU:OE1	1:CD:107:LEU:HD23	1.86	0.75
3:A9:36:LEU:HD11	1:AK:135:ASN:HD21	1.52	0.75
4:BC:193:VAL:N	4:BH:146:ALA:O	2.18	0.75
5:CC:263:LYS:HE2	5:OH:386:ASN:OD1	1.86	0.75
1:DD:302:ASP:HB2	1:KS:29:TYR:CZ	2.18	0.75
1:LD:22:LEU:HD21	1:KK:48:THR:C	2.11	0.75
1:LD:58:ILE:HG22	1:KK:55:PHE:CE2	2.19	0.75
1:AE:208:LEU:CD1	1:AE:391:ILE:HD11	2.15	0.75
1:FE:145:LEU:N	1:CP:82:ILE:HD12	2.00	0.75
1:KE:372:VAL:HG21	2:PR:10:MET:HB2	1.67	0.75
3:AI:81:LEU:CD1	1:JS:359:MET:HE2	2.15	0.75
2:MJ:2:TYR:CD1	2:FS:54:THR:OG1	2.38	0.75
1:LK:55:PHE:HD1	1:DP:120:LEU:CD1	1.91	0.75
1:AP:60:GLU:CD	1:KP:86:SER:HB2	2.12	0.75
1:CQ:321:VAL:HG22	1:CQ:327:PHE:HD2	1.49	0.75
1:C1:22:LEU:HB2	1:dQ:47:GLU:HG3	1.68	0.75
1:C1:208:LEU:CD1	1:C1:391:ILE:HD11	2.16	0.75
1:Q1:49:PHE:HB3	1:KG:137:ASP:OD2	1.85	0.75
1:T1:145:LEU:N	1:CJ:82:ILE:CD1	2.50	0.75
1:X1:139:ARG:HD3	1:I8:81:PHE:CD2	2.21	0.75
1:X1:222:SER:OG	1:IR:53:TYR:CD1	2.39	0.75
1:C3:29:TYR:HH	1:QG:302:ASP:CG	1.92	0.75
1:Q3:14:VAL:CG2	1:Z4:14:VAL:CG2	2.65	0.75
2:d3:11:MET:HG2	1:BD:133:LEU:HB2	1.65	0.75
1:S4:14:VAL:CG2	1:IQ:14:VAL:CG2	2.65	0.75
1:S4:22:LEU:HD22	1:IQ:47:GLU:CD	2.09	0.75
3:A5:83:TYR:O	1:AJ:157:LYS:HD3	1.85	0.75
5:E5:64:TRP:CG	4:BH:30:LEU:CB	2.62	0.75
1:g6:53:TYR:CG	1:LP:223:GLY:CA	2.70	0.75
1:g6:71:ARG:NH2	1:BE:210:ASN:ND2	2.29	0.75
1:g6:82:ILE:HG13	1:DJ:142:PHE:O	1.86	0.75
1:h6:85:TYR:HH	1:AE:46:PHE:HD1	1.34	0.75
1:C7:82:ILE:HG13	1:DP:142:PHE:O	1.86	0.75
1:C7:310:THR:HG21	1:DP:27:HIS:HE1	1.51	0.75
1:Q7:372:VAL:HG21	2:HG:10:MET:HB2	1.68	0.75
1:R7:202:PHE:HD2	1:QQ:248:SER:HG	1.34	0.75
1:a7:14:VAL:CG2	1:KE:14:VAL:CG2	2.65	0.75
1:g7:208:LEU:CD1	1:g7:391:ILE:HD11	2.15	0.75
3:A9:202:ASN:HD21	5:DH:38:TYR:CB	1.99	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E9:36:ALA:CA	3:AB:194:ASN:CG	2.53	0.75
5:OB:386:ASN:OD1	5:CF:263:LYS:HE2	1.86	0.75
1:LD:22:LEU:HB2	1:KK:47:GLU:OE1	1.84	0.75
1:LD:25:PHE:HB3	1:BK:99:MET:O	1.86	0.75
1:LD:223:GLY:CA	1:YG:53:TYR:CG	2.70	0.75
1:ME:47:GLU:HG3	1:QQ:22:LEU:HB2	1.68	0.75
1:bE:210:ASN:ND2	1:CR:71:ARG:NH2	2.29	0.75
1:cE:255:ILE:HG23	1:cE:261:ILE:CD1	2.15	0.75
1:CG:208:LEU:CD1	1:CG:391:ILE:HD11	2.15	0.75
1:YG:310:THR:HG21	1:DK:27:HIS:HE1	1.51	0.75
1:LJ:22:LEU:HD21	1:JS:48:THR:C	2.11	0.75
1:LJ:54:LEU:HA	1:CS:118:THR:OG1	1.85	0.75
1:KK:100:ASP:CA	1:KP:25:PHE:HA	2.12	0.75
1:LK:47:GLU:CG	1:KP:20:SER:CB	2.01	0.75
1:IL:208:LEU:CD1	1:IL:391:ILE:HD11	2.15	0.75
1:YL:14:VAL:CG2	1:SR:14:VAL:CG2	2.65	0.75
1:YL:280:PHE:HE2	1:YL:320:ASP:HA	1.51	0.75
1:QQ:208:LEU:HD11	1:QQ:391:ILE:HD13	1.46	0.75
1:IR:280:PHE:HE2	1:IR:320:ASP:HA	1.51	0.75
1:KR:255:ILE:HG23	1:KR:261:ILE:CD1	2.15	0.75
1:A1:202:PHE:HD2	1:C6:248:SER:HG	1.34	0.75
1:I1:222:SER:OG	1:Y6:53:TYR:CD1	2.39	0.75
1:Q1:14:VAL:CG2	1:KG:14:VAL:CG2	2.65	0.75
1:Y1:210:ASN:ND2	1:I6:71:ARG:NH2	2.29	0.75
1:C3:14:VAL:CG2	1:SG:14:VAL:CG2	2.65	0.75
1:A3:115:ARG:NH2	1:g7:300:TYR:HA	2.02	0.75
2:E3:45:ILE:CG1	2:E3:46:HIS:N	2.36	0.75
1:I3:280:PHE:HE2	1:I3:320:ASP:HA	1.51	0.75
1:S3:47:GLU:HB3	1:CR:20:SER:CB	2.14	0.75
1:R4:316:VAL:HG23	1:BS:31:LYS:HE2	1.69	0.75
1:X4:20:SER:CB	1:BR:47:GLU:HB3	2.14	0.75
2:e4:10:MET:HB2	1:bQ:372:VAL:HG21	1.67	0.75
4:B5:146:ALA:O	4:BN:193:VAL:N	2.18	0.75
1:C6:53:TYR:CD1	1:gG:222:SER:OG	2.39	0.75
1:C6:372:VAL:HG21	2:HL:10:MET:HB2	1.67	0.75
1:i6:27:HIS:C	1:CJ:100:ASP:CB	2.59	0.75
1:B7:49:PHE:CD1	1:DP:22:LEU:HD11	2.20	0.75
1:B7:368:GLU:OE1	1:CP:107:LEU:HD23	1.86	0.75
1:I8:14:VAL:CG2	1:KR:14:VAL:CG2	2.65	0.75
1:Q8:375:TRP:CZ3	1:IG:367:PRO:CG	2.68	0.75
2:U8:45:ILE:CG1	2:U8:46:HIS:N	2.36	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a8:47:GLU:HG3	1:bQ:22:LEU:HB2	1.68	0.75
1:g8:208:LEU:HD11	1:g8:391:ILE:HD13	1.46	0.75
5:NB:231:ASN:CA	5:CF:265:LEU:HD13	2.15	0.75
1:LD:55:PHE:HE2	1:KK:58:ILE:CB	1.86	0.75
1:FE:367:PRO:CG	1:CP:375:TRP:CE3	2.68	0.75
1:ME:14:VAL:CG2	1:QQ:14:VAL:CG2	2.65	0.75
1:SE:208:LEU:CD1	1:SE:391:ILE:HD11	2.15	0.75
4:BF:117:GLU:HB2	4:BF:220:THR:HG23	1.68	0.75
1:aG:14:VAL:HG21	1:DK:14:VAL:HG12	0.79	0.75
1:aG:368:GLU:OE1	1:CK:107:LEU:HD23	1.86	0.75
1:KJ:368:GLU:CA	1:AP:375:TRP:CD1	2.68	0.75
2:MJ:2:TYR:HE2	1:JS:153:LEU:HD12	1.45	0.75
1:AK:304:GLN:HE21	1:KP:28:ASP:HB2	1.49	0.75
1:LK:22:LEU:HD23	1:KP:47:GLU:OE1	1.85	0.75
1:LK:369:PHE:CZ	1:BP:107:LEU:CG	2.68	0.75
4:BM:117:GLU:HB2	4:BM:220:THR:HG23	1.68	0.75
1:C1:222:SER:OG	1:Y8:53:TYR:CD1	2.39	0.75
1:f1:53:TYR:CD1	1:C3:222:SER:OG	2.39	0.75
1:f1:208:LEU:CD1	1:f1:391:ILE:HD11	2.15	0.75
5:N2:231:ASN:CA	5:CB:265:LEU:HD13	2.15	0.75
1:Q3:53:TYR:CD1	1:X4:222:SER:OG	2.39	0.75
1:Q3:81:PHE:CD2	1:CR:139:ARG:HD3	2.21	0.75
2:U3:45:ILE:CG1	2:U3:46:HIS:N	2.36	0.75
1:K4:14:VAL:CG2	1:QL:14:VAL:CG2	2.65	0.75
1:K4:137:ASP:OD2	1:QL:49:PHE:HB3	1.85	0.75
1:X4:300:TYR:HA	1:Z8:115:ARG:NH2	2.02	0.75
1:X4:367:PRO:CG	1:CR:375:TRP:CZ3	2.68	0.75
1:f4:49:PHE:HB3	1:B6:137:ASP:OD2	1.85	0.75
1:f4:280:PHE:HE2	1:f4:320:ASP:HA	1.51	0.75
1:C6:22:LEU:HB2	1:iG:47:GLU:HG3	1.68	0.75
1:C6:208:LEU:CD1	1:C6:391:ILE:HD11	2.16	0.75
1:Q6:20:SER:HB2	1:CJ:47:GLU:HG3	1.65	0.75
1:Q6:29:TYR:OH	1:LJ:302:ASP:OD2	2.02	0.75
1:g6:28:ASP:O	1:AP:98:ASN:CB	2.35	0.75
1:g6:39:TRP:O	1:LP:222:SER:OG	2.02	0.75
1:C7:33:TRP:H	1:LK:174:MET:HE3	0.76	0.75
1:B7:27:HIS:C	1:CP:100:ASP:CB	2.59	0.75
1:C8:222:SER:OG	1:AE:53:TYR:CD1	2.39	0.75
3:AB:114:PHE:CD1	1:AD:360:LEU:CD2	2.69	0.75
1:BD:107:LEU:CG	1:KS:369:PHE:CZ	2.68	0.75
1:BE:109:LEU:CD1	1:AP:106:GLU:HA	2.11	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SE:300:TYR:HA	1:JQ:115:ARG:NH2	2.02	0.75
1:QG:372:VAL:HG21	2:HQ:10:MET:HB2	1.67	0.75
1:ZG:108:MET:CE	1:gG:364:PHE:HZ	1.90	0.75
2:fG:10:MET:HB2	1:gG:372:VAL:HG21	1.67	0.75
1:BJ:107:LEU:CG	1:LP:369:PHE:CZ	2.68	0.75
1:BJ:107:LEU:CG	1:LP:369:PHE:HZ	1.95	0.75
1:KJ:144:THR:O	1:AP:82:ILE:CD1	2.35	0.75
1:LK:21:ALA:HB1	1:DP:123:ASN:HD22	1.49	0.75
1:LK:363:PRO:HG2	2:FP:9:SER:HB2	1.67	0.75
1:YL:53:TYR:CD1	1:QR:222:SER:OG	2.39	0.75
3:AN:104:GLN:HG3	2:MP:9:SER:O	1.86	0.75
1:YR:321:VAL:HG22	1:YR:327:PHE:HD2	1.49	0.75
1:B1:47:GLU:HG3	1:Y8:22:LEU:HB2	1.68	0.75
1:X1:38:LYS:HD3	1:I8:222:SER:HA	1.66	0.75
5:N2:231:ASN:CB	5:CB:265:LEU:CD1	2.14	0.75
1:S3:47:GLU:HG3	1:CR:22:LEU:HB2	1.68	0.75
1:R4:123:ASN:HD22	1:BS:21:ALA:HB2	1.51	0.75
1:g4:115:ARG:NH2	1:YG:300:TYR:HA	2.02	0.75
1:h4:47:GLU:HG3	1:gG:22:LEU:HB2	1.68	0.75
5:N5:230:SER:OG	5:CN:248:GLN:HB3	1.86	0.75
1:Z6:210:ASN:ND2	1:KE:71:ARG:NH2	2.29	0.75
1:I7:22:LEU:HB2	1:iR:47:GLU:HG3	1.68	0.75
1:J7:115:ARG:NH2	1:bQ:300:TYR:HA	2.02	0.75
2:X7:10:MET:HB2	1:Y7:372:VAL:HG21	1.67	0.75
1:Y7:300:TYR:HA	1:JR:115:ARG:NH2	2.02	0.75
5:E9:21:ILE:HG22	5:EA:55:LEU:HD22	1.62	0.75
5:E9:37:ASP:HB2	3:AB:197:VAL:CG1	2.15	0.75
1:DD:110:LYS:C	1:JS:105:GLU:HG2	1.91	0.75
1:DD:120:LEU:CD1	1:KS:55:PHE:HD1	1.91	0.75
1:KD:101:LEU:HD23	1:KK:25:PHE:HB3	1.69	0.75
1:aE:81:PHE:CD2	1:CG:139:ARG:HD3	2.21	0.75
1:aE:300:TYR:HA	1:AR:115:ARG:NH2	2.02	0.75
1:aE:321:VAL:HG22	1:aE:327:PHE:HD2	1.49	0.75
1:aE:372:VAL:HG21	2:XG:10:MET:HB2	1.67	0.75
5:OF:386:ASN:OD1	5:CM:263:LYS:HE2	1.86	0.75
1:YG:82:ILE:HG13	1:DK:142:PHE:O	1.86	0.75
5:CH:265:LEU:CD1	5:NN:231:ASN:CB	2.14	0.75
1:AJ:316:VAL:N	1:JS:30:SER:O	2.20	0.75
1:KJ:368:GLU:N	1:AP:375:TRP:CE2	2.54	0.75
1:LK:368:GLU:OE2	1:DP:375:TRP:CA	2.27	0.75
1:AP:60:GLU:HB3	1:KP:87:GLU:O	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BQ:14:VAL:CG2	1:gR:14:VAL:CG2	2.65	0.75
1:AS:290:ASN:CG	1:AS:325:LYS:HZ1	1.95	0.75
1:Q1:280:PHE:HE2	1:Q1:320:ASP:HA	1.51	0.75
1:T1:32:SER:HA	1:CJ:125:ILE:CD1	2.16	0.75
2:W1:11:MET:CE	1:CS:372:VAL:CG2	2.65	0.75
1:C3:20:SER:CB	1:SG:47:GLU:HB3	2.14	0.75
1:C3:300:TYR:HA	1:h7:115:ARG:NH2	2.02	0.75
1:I3:372:VAL:HG21	2:XR:10:MET:HB2	1.67	0.75
1:J3:85:TYR:HH	1:Q8:46:PHE:HD1	1.33	0.75
1:C4:222:SER:OG	1:aE:53:TYR:CD1	2.39	0.75
1:A4:115:ARG:NH2	1:QG:300:TYR:HA	2.02	0.75
1:Q4:372:VAL:HG21	2:fR:10:MET:HB2	1.67	0.75
1:R4:221:ALA:HA	1:BS:38:LYS:HD3	0.77	0.75
1:S4:47:GLU:HB3	1:IQ:20:SER:CB	2.14	0.75
1:S4:106:GLU:N	1:KS:109:LEU:HD21	1.99	0.75
1:X4:372:VAL:HG21	2:hE:10:MET:HB2	1.67	0.75
1:f4:53:TYR:CD1	1:C6:222:SER:OG	2.39	0.75
1:I6:14:VAL:CG2	1:aR:14:VAL:CG2	2.65	0.75
1:K6:47:GLU:HG3	1:CL:22:LEU:HB2	1.68	0.75
1:C7:26:ASN:CA	1:AK:100:ASP:OD1	2.33	0.75
1:I7:81:PHE:CD2	1:CQ:139:ARG:HD3	2.21	0.75
1:Q7:208:LEU:CD1	1:Q7:391:ILE:HD11	2.15	0.75
1:Y7:22:LEU:HB2	1:SQ:47:GLU:HG3	1.68	0.75
1:Y8:280:PHE:HE2	1:Y8:320:ASP:HA	1.51	0.75
3:AA:197:VAL:CG1	5:EH:37:ASP:HB2	2.15	0.75
1:AD:100:ASP:CG	1:YG:27:HIS:O	2.28	0.75
1:BD:105:GLU:CA	1:KS:369:PHE:CE2	2.66	0.75
1:KD:368:GLU:N	1:IS:375:TRP:CE2	2.54	0.75
2:MD:15:TYR:CB	1:KK:149:THR:HG23	2.17	0.75
1:aG:255:ILE:HG23	1:aG:261:ILE:CD1	2.15	0.75
1:gG:300:TYR:HA	1:AL:115:ARG:NH2	2.02	0.75
1:AJ:375:TRP:CE2	1:JS:368:GLU:N	2.54	0.75
1:KJ:365:HIS:NE2	1:AP:361:LYS:CE	2.32	0.75
1:KJ:368:GLU:O	1:AP:128:LYS:HE3	1.86	0.75
1:AK:60:GLU:CD	1:KK:86:SER:HB2	2.12	0.75
1:AK:375:TRP:CE2	1:KP:368:GLU:N	2.54	0.75
1:IL:53:TYR:CD1	1:IQ:222:SER:OG	2.39	0.75
1:B1:137:ASP:OD2	1:Y8:49:PHE:HB3	1.85	0.74
2:U1:10:MET:HB3	1:CJ:372:VAL:HG21	1.68	0.74
1:X1:280:PHE:HE2	1:X1:320:ASP:HA	1.51	0.74
1:C3:280:PHE:HE2	1:C3:320:ASP:HA	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J3:115:ARG:NH2	1:Q8:300:TYR:HA	2.02	0.74
1:C4:14:VAL:CG2	1:BG:14:VAL:CG2	2.65	0.74
1:C4:53:TYR:CD1	1:CG:222:SER:OG	2.39	0.74
1:Q4:14:VAL:CG2	1:KL:14:VAL:CG2	2.65	0.74
1:Q4:300:TYR:HA	1:h8:115:ARG:NH2	2.02	0.74
1:X4:14:VAL:CG2	1:BR:14:VAL:CG2	2.65	0.74
1:Z4:255:ILE:HG23	1:Z4:261:ILE:CD1	2.15	0.74
1:i6:133:LEU:O	2:EJ:11:MET:SD	2.40	0.74
1:C7:53:TYR:CG	1:LK:223:GLY:CA	2.70	0.74
1:I8:53:TYR:CD1	1:IR:222:SER:OG	2.39	0.74
1:Y8:222:SER:HA	1:bQ:38:LYS:HD3	1.66	0.74
1:g8:28:ASP:O	1:IS:98:ASN:CB	2.35	0.74
1:g8:82:ILE:HG13	1:DD:142:PHE:O	1.86	0.74
4:BA:30:LEU:CB	5:EH:64:TRP:CG	2.62	0.74
3:AB:112:ILE:CA	2:MD:23:ARG:HH22	1.96	0.74
5:DB:67:ASP:HB2	5:EF:11:PHE:HB2	1.69	0.74
5:EB:57:GLU:CA	4:BM:33:TYR:CZ	2.65	0.74
5:EB:140:ASP:HB3	5:CB:139:LYS:HB2	1.63	0.74
1:AD:60:GLU:HB3	1:KD:87:GLU:O	1.86	0.74
1:AD:116:MET:CG	1:KK:51:ASN:HD22	1.99	0.74
1:BE:109:LEU:HD13	1:AP:106:GLU:CA	2.10	0.74
1:TE:115:ARG:NH2	1:IQ:300:TYR:HA	2.02	0.74
3:AH:83:TYR:O	1:AP:360:LEU:HG	1.87	0.74
1:DJ:316:VAL:HG13	1:LP:31:LYS:HB3	1.69	0.74
1:KJ:48:THR:C	1:LP:22:LEU:HD21	2.11	0.74
1:KJ:368:GLU:OE2	1:AP:375:TRP:CG	2.12	0.74
1:LK:31:LYS:HD3	1:DP:316:VAL:HG13	0.75	0.74
1:LK:31:LYS:HB3	1:DP:316:VAL:HG13	1.69	0.74
1:QL:280:PHE:HE2	1:QL:320:ASP:HA	1.51	0.74
1:AP:62:LEU:CG	1:KP:88:GLU:CB	2.64	0.74
1:BP:290:ASN:CG	1:BP:325:LYS:HZ1	1.94	0.74
1:DP:133:LEU:HB2	2:mR:11:MET:HG3	1.69	0.74
1:S1:106:GLU:N	1:LJ:109:LEU:HD21	1.98	0.74
2:U1:5:ASN:C	1:CJ:153:LEU:HD12	2.12	0.74
1:h1:14:VAL:CG2	1:QG:14:VAL:CG2	2.65	0.74
1:K3:14:VAL:CG2	1:I4:14:VAL:CG2	2.65	0.74
1:S3:14:VAL:CG2	1:CR:14:VAL:CG2	2.65	0.74
1:C4:372:VAL:HG21	2:fL:10:MET:HB2	1.67	0.74
1:X4:22:LEU:HB2	1:BR:47:GLU:HG3	1.68	0.74
1:Y4:108:MET:CE	1:bQ:364:PHE:HZ	1.90	0.74
1:f4:22:LEU:HB2	1:B6:47:GLU:HG3	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f4:81:PHE:CD2	1:gG:139:ARG:HD3	2.21	0.74
1:g4:221:ALA:HA	1:CD:38:LYS:HD3	0.77	0.74
2:X6:10:MET:HB2	1:Q8:372:VAL:HG21	1.67	0.74
1:C7:47:GLU:N	1:CK:19:LYS:NZ	2.33	0.74
1:C7:280:PHE:HE2	1:C7:320:ASP:HA	1.51	0.74
1:I7:222:SER:OG	1:CQ:53:TYR:CD1	2.39	0.74
1:S8:47:GLU:HG3	1:IG:22:LEU:HB2	1.68	0.74
5:CC:266:THR:CB	5:NH:230:SER:CA	2.49	0.74
1:AD:375:TRP:CE2	1:KK:368:GLU:N	2.54	0.74
1:KD:53:TYR:CG	1:IS:223:GLY:CA	2.69	0.74
1:LD:118:THR:HG23	1:YG:54:LEU:HD23	1.68	0.74
2:HE:10:MET:HB3	1:CP:372:VAL:HG21	1.68	0.74
2:HE:15:TYR:OH	1:CP:138:THR:HG21	1.87	0.74
3:AH:112:ILE:CG2	2:MP:20:LEU:HD23	2.15	0.74
3:AH:150:TYR:CE1	1:AP:148:ALA:HB3	2.22	0.74
4:BH:203:ASN:OD1	4:BN:136:SER:OG	2.06	0.74
1:AJ:82:ILE:CD1	1:JS:144:THR:O	2.35	0.74
1:KJ:53:TYR:CG	1:AP:223:GLY:CA	2.69	0.74
1:LJ:57:LYS:CE	1:JS:61:THR:HG21	2.17	0.74
1:AK:106:GLU:CA	1:hR:109:LEU:HD13	2.10	0.74
1:AK:304:GLN:NE2	1:KP:28:ASP:CA	2.41	0.74
1:LK:53:TYR:CD1	1:DP:222:SER:OG	2.39	0.74
1:LK:144:THR:C	1:DP:82:ILE:HD13	2.12	0.74
1:CL:81:PHE:CD2	1:YR:139:ARG:HD3	2.21	0.74
1:C1:280:PHE:HE2	1:C1:320:ASP:HA	1.51	0.74
1:S1:47:GLU:HG3	1:Q8:22:LEU:HB2	1.68	0.74
1:Z1:14:VAL:CG2	1:IR:14:VAL:CG2	2.65	0.74
1:h1:255:ILE:HG23	1:h1:261:ILE:CD1	2.15	0.74
4:B2:136:SER:OG	4:BB:203:ASN:OD1	2.06	0.74
4:B2:146:ALA:O	4:BB:193:VAL:N	2.18	0.74
4:B2:193:VAL:N	4:B9:146:ALA:O	2.18	0.74
1:I3:300:TYR:HA	1:R8:115:ARG:NH2	2.02	0.74
1:K3:47:GLU:HG3	1:I4:22:LEU:HB2	1.68	0.74
1:Q3:22:LEU:HB2	1:Z4:47:GLU:HG3	1.68	0.74
1:B4:47:GLU:HG3	1:aE:22:LEU:HB2	1.68	0.74
1:I4:300:TYR:HA	1:A8:115:ARG:NH2	2.02	0.74
1:g4:87:GLU:CD	1:CD:55:PHE:H	1.96	0.74
5:O5:386:ASN:OD1	5:CN:263:LYS:HE2	1.86	0.74
1:C6:364:PHE:HZ	1:AL:108:MET:CE	1.90	0.74
1:S6:57:LYS:CE	1:CS:143:GLN:CD	2.51	0.74
1:i6:367:PRO:CG	1:BJ:375:TRP:CE3	2.62	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i6:368:GLU:CD	1:CJ:107:LEU:HD23	2.12	0.74
1:C7:148:ALA:CA	2:NK:15:TYR:CE2	2.63	0.74
1:Q7:22:LEU:HB2	1:aL:47:GLU:HG3	1.68	0.74
1:R7:115:ARG:NH2	1:QQ:300:TYR:HA	2.02	0.74
1:C8:208:LEU:CD1	1:C8:391:ILE:HD11	2.15	0.74
1:I8:208:LEU:HD11	1:I8:391:ILE:HD13	1.46	0.74
1:Q8:321:VAL:HG22	1:Q8:327:PHE:HD2	1.49	0.74
1:S8:14:VAL:CG2	1:IG:14:VAL:CG2	2.65	0.74
1:Y8:81:PHE:CD2	1:bQ:139:ARG:HD3	2.21	0.74
1:g8:305:SER:HB3	1:DD:28:ASP:OD2	1.88	0.74
1:i8:57:LYS:HB3	1:DD:143:GLN:HG3	1.70	0.74
1:i8:368:GLU:CD	1:CD:107:LEU:HD23	2.12	0.74
4:B9:203:ASN:OD1	4:BA:136:SER:OG	2.05	0.74
4:BB:251:TRP:NE1	3:AM:208:LYS:HD2	2.00	0.74
1:cE:14:VAL:CG2	1:CG:14:VAL:CG2	2.65	0.74
1:aG:27:HIS:C	1:CK:100:ASP:CB	2.59	0.74
2:kG:45:ILE:CG1	2:kG:46:HIS:N	2.36	0.74
5:CI:248:GLN:HB3	5:NO:230:SER:OG	1.86	0.74
1:BJ:290:ASN:CG	1:BJ:325:LYS:HZ1	1.95	0.74
1:DJ:121:TYR:HD1	1:LP:36:GLY:CA	1.96	0.74
2:MK:15:TYR:CB	1:KP:149:THR:HG23	2.17	0.74
1:IL:139:ARG:HD3	1:IQ:81:PHE:CD2	2.21	0.74
1:JL:115:ARG:NH2	1:YR:300:TYR:HA	2.02	0.74
1:IQ:280:PHE:HE2	1:IQ:320:ASP:HA	1.51	0.74
1:A1:115:ARG:NH2	1:C6:300:TYR:HA	2.02	0.74
1:J1:115:ARG:NH2	1:IG:300:TYR:HA	2.02	0.74
1:f4:222:SER:HA	1:gG:38:LYS:HD3	1.66	0.74
1:g4:109:LEU:HD13	1:AD:106:GLU:CA	2.10	0.74
1:h4:47:GLU:HB3	1:gG:20:SER:CB	2.13	0.74
3:A5:152:SER:O	1:AJ:139:ARG:NE	2.20	0.74
1:i6:57:LYS:HD3	1:DJ:143:GLN:HE22	1.05	0.74
1:i6:255:ILE:HG23	1:i6:261:ILE:CD1	2.15	0.74
1:g7:14:VAL:CG2	1:CE:14:VAL:CG2	2.65	0.74
1:g8:53:TYR:CG	1:KS:223:GLY:CA	2.70	0.74
5:FB:46:TYR:CB	5:FF:31:PHE:CZ	2.61	0.74
1:AD:60:GLU:CD	1:KD:86:SER:HB2	2.12	0.74
1:AD:82:ILE:CD1	1:KK:144:THR:O	2.35	0.74
1:AD:136:ASN:O	3:AF:29:ARG:NH2	2.20	0.74
1:AD:223:GLY:CA	1:KK:53:TYR:CG	2.69	0.74
1:bE:115:ARG:NH2	1:CR:300:TYR:HA	2.02	0.74
1:AJ:60:GLU:CD	1:KJ:86:SER:HB2	2.12	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:62:LEU:CG	1:KJ:88:GLU:CB	2.64	0.74
1:KJ:33:TRP:NE1	1:AP:174:MET:HA	2.03	0.74
1:LJ:58:ILE:HG22	1:JS:55:PHE:CE2	2.19	0.74
1:LK:37:ASP:C	1:DP:119:LYS:HG3	2.09	0.74
1:CL:222:SER:OG	1:YR:53:TYR:CD1	2.39	0.74
5:DM:67:ASP:HB2	5:EO:11:PHE:HB2	1.70	0.74
1:IS:60:GLU:HB3	1:JS:87:GLU:O	1.86	0.74
1:C1:248:SER:HG	1:A6:202:PHE:HD2	1.35	0.74
1:C1:300:TYR:HA	1:A6:115:ARG:NH2	2.02	0.74
1:C1:364:PHE:HZ	1:J7:108:MET:CE	1.90	0.74
1:I1:208:LEU:CD1	1:I1:391:ILE:HD11	2.15	0.74
1:K1:14:VAL:CG2	1:Y6:14:VAL:CG2	2.65	0.74
1:f1:139:ARG:HD3	1:C3:81:PHE:CD2	2.21	0.74
1:g1:115:ARG:NH2	1:CQ:300:TYR:HA	2.02	0.74
1:I3:22:LEU:HB2	1:SL:47:GLU:HG3	1.68	0.74
1:I3:321:VAL:HG22	1:I3:327:PHE:HD2	1.49	0.74
1:C6:280:PHE:HE2	1:C6:320:ASP:HA	1.51	0.74
1:I6:81:PHE:CD2	1:CL:139:ARG:HD3	2.21	0.74
1:a6:14:VAL:CG2	1:SE:14:VAL:CG2	2.65	0.74
1:I7:139:ARG:HD3	1:gR:81:PHE:CD2	2.21	0.74
1:Q7:300:TYR:HA	1:RQ:115:ARG:NH2	2.02	0.74
3:AA:107:LEU:O	2:MK:19:ARG:HD2	1.87	0.74
4:BA:203:ASN:OD1	4:BC:136:SER:OG	2.06	0.74
5:EA:140:ASP:HB3	5:CA:139:LYS:HB2	1.62	0.74
3:AB:111:ASP:C	2:MD:23:ARG:HH22	1.95	0.74
3:AC:194:ASN:CG	5:EN:36:ALA:CA	2.53	0.74
1:AD:145:LEU:CD2	3:AF:34:ARG:N	2.50	0.74
1:AD:361:LYS:CE	1:KK:365:HIS:NE2	2.32	0.74
1:LD:31:LYS:HD3	1:DK:316:VAL:HG13	0.75	0.74
2:MD:51:GLN:HG2	3:AF:114:PHE:CE2	2.21	0.74
1:FE:27:HIS:HD1	1:CP:312:PRO:HD3	1.53	0.74
1:FE:145:LEU:N	1:CP:82:ILE:CD1	2.50	0.74
1:aE:222:SER:OG	1:CG:53:TYR:CD1	2.39	0.74
5:NF:231:ASN:CB	5:CM:265:LEU:CG	2.61	0.74
1:CG:280:PHE:HE2	1:CG:320:ASP:HA	1.51	0.74
1:aG:57:LYS:HB3	1:DK:143:GLN:HG3	1.70	0.74
1:KJ:136:ASN:HD21	1:KP:99:MET:HE2	1.49	0.74
1:Y1:115:ARG:NH2	1:I6:300:TYR:HA	2.02	0.74
1:h1:47:GLU:HG3	1:QG:22:LEU:HB2	1.68	0.74
1:C4:20:SER:CB	1:BG:47:GLU:HB3	2.14	0.74
1:B4:14:VAL:CG2	1:aE:14:VAL:CG2	2.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S4:47:GLU:HG3	1:IQ:22:LEU:HB2	1.68	0.74
1:Q6:29:TYR:CE2	1:LJ:317:PHE:HE1	2.02	0.74
1:Q6:31:LYS:CG	1:LJ:314:GLY:O	2.35	0.74
1:g6:21:ALA:N	1:CP:47:GLU:HG3	1.77	0.74
1:Y7:280:PHE:HE2	1:Y7:320:ASP:HA	1.51	0.74
1:g8:20:SER:HB2	1:BS:47:GLU:HG3	1.65	0.74
3:A9:151:ASN:HB2	1:AK:143:GLN:O	1.88	0.74
4:BA:117:GLU:HB2	4:BA:220:THR:HG23	1.68	0.74
5:EA:11:PHE:HB2	5:DC:67:ASP:HB2	1.69	0.74
5:DB:38:TYR:CB	3:AO:202:ASN:HD21	1.98	0.74
5:EC:11:PHE:HB2	5:DH:67:ASP:HB2	1.69	0.74
1:DD:82:ILE:HD13	1:KS:144:THR:C	2.12	0.74
1:KE:81:PHE:CD2	1:QQ:139:ARG:HD3	2.21	0.74
1:ME:255:ILE:HG23	1:ME:261:ILE:CD1	2.15	0.74
5:DF:67:ASP:HB2	5:EM:11:PHE:HB2	1.69	0.74
1:AK:375:TRP:CD1	1:KP:368:GLU:CA	2.68	0.74
1:CK:138:THR:HG21	2:kR:15:TYR:OH	1.87	0.74
1:BL:14:VAL:CG2	1:YR:14:VAL:CG2	2.65	0.74
1:R1:87:GLU:CD	1:CJ:55:PHE:H	1.96	0.74
1:R1:221:ALA:HA	1:CJ:38:LYS:HD3	0.77	0.74
1:S1:14:VAL:CG2	1:Q8:14:VAL:CG2	2.65	0.74
1:X1:14:VAL:CG2	1:K8:14:VAL:CG2	2.65	0.74
3:A2:66:ILE:HA	1:KK:357:LYS:O	1.88	0.74
3:A2:279:ASN:ND2	3:AB:304:ASP:OD2	2.21	0.74
1:C3:22:LEU:HB2	1:SG:47:GLU:HG3	1.68	0.74
1:C3:53:TYR:CD1	1:QG:222:SER:OG	2.39	0.74
1:B3:255:ILE:HG23	1:B3:261:ILE:CD1	2.15	0.74
1:I3:14:VAL:CG2	1:SL:14:VAL:CG2	2.65	0.74
1:I4:81:PHE:CD2	1:QL:139:ARG:HD3	2.21	0.74
1:Q4:22:LEU:HB2	1:KL:47:GLU:HG3	1.68	0.74
1:T4:19:LYS:HB3	1:AS:45:MET:HG3	1.70	0.74
1:f4:300:TYR:HA	1:ZG:115:ARG:NH2	2.02	0.74
1:i4:366:ASN:CA	1:LD:108:MET:HE1	2.14	0.74
2:j4:10:MET:HB3	1:CD:372:VAL:HG21	1.68	0.74
1:I6:222:SER:OG	1:CL:53:TYR:CD1	2.39	0.74
1:Y6:300:TYR:HA	1:LE:115:ARG:NH2	2.02	0.74
1:i6:368:GLU:OE1	1:CJ:107:LEU:HD23	1.86	0.74
1:C7:54:LEU:HD23	1:LK:118:THR:HG23	1.68	0.74
1:C7:321:VAL:HG22	1:C7:327:PHE:HD2	1.49	0.74
1:B7:57:LYS:CE	1:DP:143:GLN:CD	2.50	0.74
1:Q7:53:TYR:CD1	1:YL:222:SER:OG	2.39	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B8:14:VAL:CG2	1:AE:14:VAL:CG2	2.65	0.74
1:S8:47:GLU:HB3	1:IG:20:SER:CB	2.14	0.74
1:a8:47:GLU:HB3	1:bQ:20:SER:CB	2.13	0.74
3:A9:304:ASP:OD2	3:AA:279:ASN:ND2	2.21	0.74
5:E9:57:GLU:CA	4:BB:33:TYR:CZ	2.65	0.74
4:BA:33:TYR:CZ	5:EH:57:GLU:CA	2.65	0.74
1:LD:54:LEU:HA	1:DK:118:THR:OG1	1.85	0.74
1:aG:14:VAL:CB	1:DK:14:VAL:CG1	2.62	0.74
5:EH:11:PHE:HB2	5:DN:67:ASP:HB2	1.69	0.74
1:CK:153:LEU:HD12	2:kR:5:ASN:C	2.12	0.74
1:LK:31:LYS:HG3	1:DP:314:GLY:O	1.87	0.74
1:IL:300:TYR:HA	1:ZR:115:ARG:NH2	2.02	0.74
3:AO:64:GLN:HG3	1:IS:149:THR:H	1.53	0.74
1:QR:280:PHE:HE2	1:QR:320:ASP:HA	1.51	0.74
1:I1:22:LEU:HB2	1:UE:47:GLU:HG3	1.68	0.74
1:I1:81:PHE:CD2	1:Y6:139:ARG:HD3	2.21	0.74
1:R1:316:VAL:HG23	1:CJ:31:LYS:HE2	1.69	0.74
1:X1:300:TYR:HA	1:J6:115:ARG:NH2	2.02	0.74
2:e1:25:GLU:OE1	1:I6:73:ASN:O	1.93	0.74
1:f1:14:VAL:CG2	1:B3:14:VAL:CG2	2.65	0.74
1:f1:300:TYR:HA	1:AQ:115:ARG:NH2	2.02	0.74
1:C3:139:ARG:HD3	1:QG:81:PHE:CD2	2.21	0.74
1:Q4:81:PHE:CD2	1:IQ:139:ARG:HD3	2.21	0.74
1:Y4:115:ARG:NH2	1:Y8:300:TYR:HA	2.02	0.74
2:l4:11:MET:HG3	1:DK:133:LEU:HB2	1.69	0.74
3:A5:65:ASN:HB3	1:AJ:149:THR:HB	1.69	0.74
3:A5:279:ASN:ND2	3:AN:304:ASP:OD2	2.21	0.74
3:A5:304:ASP:OD2	3:AI:279:ASN:ND2	2.21	0.74
5:E5:21:ILE:HG22	5:EI:55:LEU:HD22	1.62	0.74
1:K6:14:VAL:CG2	1:CL:14:VAL:CG2	2.65	0.74
1:K6:255:ILE:HG23	1:K6:261:ILE:CD1	2.15	0.74
2:P6:10:MET:HB2	1:IR:372:VAL:HG21	1.67	0.74
1:Q6:28:ASP:O	1:AJ:98:ASN:CB	2.35	0.74
1:Q6:305:SER:HB3	1:CS:28:ASP:OD2	1.88	0.74
1:S6:46:PHE:HZ	1:CS:39:TRP:CH2	2.06	0.74
1:S6:368:GLU:CD	1:BS:107:LEU:HD23	2.12	0.74
1:h6:115:ARG:NH2	1:AE:300:TYR:HA	2.02	0.74
1:C7:13:LEU:C	1:CK:45:MET:HE3	2.10	0.74
1:C7:20:SER:HB2	1:CK:47:GLU:HB3	1.69	0.74
1:C7:300:TYR:HA	1:hR:115:ARG:NH2	2.02	0.74
1:C7:305:SER:HB3	1:DP:28:ASP:OD2	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:115:ARG:NH2	1:gR:300:TYR:HA	2.02	0.74
1:I7:14:VAL:CG2	1:iR:14:VAL:CG2	2.65	0.74
1:K7:14:VAL:CG2	1:CQ:14:VAL:CG2	2.65	0.74
1:Q7:14:VAL:CG2	1:aL:14:VAL:CG2	2.65	0.74
1:Y7:14:VAL:CG2	1:SQ:14:VAL:CG2	2.65	0.74
1:I8:53:TYR:HD1	1:IR:222:SER:HG	1.34	0.74
2:P8:10:MET:HB2	1:CR:372:VAL:HG21	1.67	0.74
1:g8:20:SER:HB2	1:BS:47:GLU:HB3	1.69	0.74
1:g8:58:ILE:CD1	1:BS:55:PHE:HD2	2.01	0.74
4:BB:146:ALA:O	4:BF:193:VAL:N	2.18	0.74
1:CD:19:LYS:HG2	1:YG:45:MET:HB3	1.66	0.74
1:CD:47:GLU:HG2	1:YG:20:SER:C	2.13	0.74
1:DD:302:ASP:CB	1:KS:29:TYR:CZ	2.70	0.74
1:KD:47:GLU:OE1	1:KS:22:LEU:HD23	1.85	0.74
1:AE:280:PHE:HE2	1:AE:320:ASP:HA	1.51	0.74
1:cE:47:GLU:HG3	1:CG:22:LEU:HB2	1.68	0.74
1:gG:71:ARG:NH2	1:AL:210:ASN:ND2	2.29	0.74
3:AI:32:PHE:CZ	1:IS:54:LEU:HA	2.21	0.74
1:AJ:174:MET:HA	1:JS:33:TRP:NE1	2.03	0.74
1:LJ:55:PHE:HD1	1:CS:120:LEU:CD1	1.91	0.74
1:LJ:369:PHE:HZ	1:AS:107:LEU:CG	1.95	0.74
1:AK:375:TRP:CG	1:KP:368:GLU:OE2	2.12	0.74
5:EN:140:ASP:HB2	5:CN:139:LYS:CE	2.10	0.74
1:Q1:29:TYR:HH	1:IG:302:ASP:CG	1.91	0.74
1:Q1:139:ARG:HD3	1:IG:81:PHE:CD2	2.21	0.74
1:T1:49:PHE:C	1:BJ:137:ASP:OD2	2.31	0.74
1:X1:321:VAL:HG22	1:X1:327:PHE:HD2	1.49	0.74
2:e1:10:MET:HB2	1:CL:372:VAL:HG21	1.68	0.74
1:Q4:222:SER:OG	1:IQ:53:TYR:CD1	2.39	0.74
1:g6:31:LYS:CG	1:LP:314:GLY:O	2.35	0.74
1:g6:45:MET:HB2	1:CP:19:LYS:HG2	0.74	0.74
1:g6:300:TYR:HA	1:BE:115:ARG:NH2	2.02	0.74
1:C7:20:SER:C	1:CK:47:GLU:HG2	2.13	0.74
1:C7:58:ILE:CD1	1:CK:55:PHE:HD2	2.01	0.74
1:B7:46:PHE:HZ	1:DP:39:TRP:CH2	2.06	0.74
1:B7:368:GLU:CD	1:CP:107:LEU:HD23	2.12	0.74
1:I7:53:TYR:CD1	1:gR:222:SER:OG	2.39	0.74
1:Y7:139:ARG:HD3	1:QQ:81:PHE:CD2	2.21	0.74
1:i7:47:GLU:HG3	1:C8:22:LEU:HB2	1.68	0.74
1:AD:145:LEU:HB3	3:AF:37:GLU:HG3	1.69	0.74
1:AD:316:VAL:N	1:KK:30:SER:O	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:30:SER:O	1:IS:316:VAL:N	2.20	0.74
1:KD:144:THR:O	1:IS:82:ILE:CD1	2.35	0.74
2:HE:5:ASN:C	1:CP:153:LEU:HD12	2.12	0.74
1:aE:208:LEU:CD1	1:aE:391:ILE:HD11	2.15	0.74
1:aE:280:PHE:HE2	1:aE:320:ASP:HA	1.51	0.74
1:YG:280:PHE:HE2	1:YG:320:ASP:HA	1.51	0.74
5:EI:140:ASP:HB3	5:CI:139:LYS:HB2	1.63	0.74
1:DJ:119:LYS:HG3	1:LP:37:ASP:C	2.09	0.74
1:KJ:101:LEU:HD23	1:JS:25:PHE:HB3	1.69	0.74
1:CK:21:ALA:HB2	1:hR:123:ASN:HD22	1.51	0.74
1:CK:55:PHE:H	1:hR:87:GLU:CD	1.96	0.74
1:CK:150:ASN:HD21	2:kR:1:MET:H1	1.35	0.74
1:IL:14:VAL:CG2	1:KQ:14:VAL:CG2	2.65	0.74
1:YL:22:LEU:HB2	1:SR:47:GLU:HG3	1.68	0.74
3:AO:83:TYR:CB	2:LS:54:THR:H	2.01	0.74
1:CQ:208:LEU:CD1	1:CQ:391:ILE:HD11	2.15	0.74
1:KQ:255:ILE:HG23	1:KQ:261:ILE:CD1	2.15	0.74
2:fQ:45:ILE:CG1	2:fQ:46:HIS:N	2.36	0.74
1:iR:255:ILE:HG23	1:iR:261:ILE:CD1	2.15	0.74
1:C1:14:VAL:CG2	1:dQ:14:VAL:CG2	2.65	0.74
1:Q1:222:SER:OG	1:Q8:53:TYR:CD1	2.39	0.74
1:g4:98:ASN:ND2	1:DK:30:SER:OG	2.21	0.74
1:i4:367:PRO:CG	1:CD:375:TRP:CE3	2.68	0.74
1:C6:14:VAL:CG2	1:iG:14:VAL:CG2	2.65	0.74
1:Q6:53:TYR:CG	1:LJ:223:GLY:CA	2.70	0.74
1:Q6:280:PHE:HE2	1:Q6:320:ASP:HA	1.51	0.74
1:S6:27:HIS:C	1:BS:100:ASP:CB	2.59	0.74
1:Y6:280:PHE:HE2	1:Y6:320:ASP:HA	1.51	0.74
1:Z6:115:ARG:NH2	1:KE:300:TYR:HA	2.02	0.74
1:g6:29:TYR:O	1:LP:315:ALA:CB	2.33	0.74
1:i6:14:VAL:HG21	1:DJ:14:VAL:HG12	0.79	0.74
1:C7:73:ASN:O	2:mR:25:GLU:OE1	1.93	0.74
2:H7:10:MET:HB2	1:I7:372:VAL:HG21	1.68	0.74
1:C8:81:PHE:CD2	1:AE:139:ARG:HD3	2.21	0.74
1:C8:280:PHE:HE2	1:C8:320:ASP:HA	1.51	0.74
1:g8:47:GLU:H	1:BS:19:LYS:NZ	1.86	0.74
3:AB:279:ASN:ND2	3:AF:304:ASP:OD2	2.21	0.74
4:BB:136:SER:OG	4:BF:203:ASN:OD1	2.06	0.74
1:AD:304:GLN:HE21	1:KK:28:ASP:HB2	1.49	0.74
1:AD:305:SER:HB2	1:KK:28:ASP:OD2	1.88	0.74
1:CD:19:LYS:HG2	1:YG:45:MET:HB2	0.74	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:143:GLN:C	1:IS:82:ILE:HG13	1.94	0.74
2:EE:45:ILE:CG1	2:EE:46:HIS:N	2.36	0.74
1:BE:87:GLU:CD	1:CP:55:PHE:H	1.96	0.74
2:JE:11:MET:HG3	1:DJ:133:LEU:HB2	1.70	0.74
5:EF:64:TRP:HE1	4:BO:30:LEU:H	1.36	0.74
1:AG:115:ARG:NH2	1:YL:300:TYR:HA	2.02	0.74
3:AH:304:ASP:OD2	3:AN:279:ASN:ND2	2.21	0.74
5:CH:265:LEU:CG	5:NN:231:ASN:CB	2.61	0.74
3:AI:66:ILE:HD13	1:JS:357:LYS:O	1.88	0.74
1:DJ:316:VAL:HG13	1:LP:31:LYS:HD3	0.75	0.74
1:LK:36:GLY:CA	1:DP:121:TYR:CE1	2.58	0.74
1:BP:261:ILE:HG23	1:BP:265:ASP:OD1	1.83	0.74
1:B1:14:VAL:CG2	1:Y8:14:VAL:CG2	2.65	0.73
1:T1:366:ASN:CG	1:LJ:108:MET:SD	2.71	0.73
1:f1:22:LEU:HB2	1:B3:47:GLU:HG3	1.68	0.73
3:A2:194:ASN:HD21	5:EA:36:ALA:CB	2.01	0.73
5:E2:140:ASP:HB3	5:C2:139:LYS:HB2	1.62	0.73
1:A3:202:PHE:HD2	1:g7:248:SER:HG	1.34	0.73
1:K3:47:GLU:HB3	1:I4:20:SER:CB	2.14	0.73
1:Q3:300:TYR:HA	1:J8:115:ARG:NH2	2.02	0.73
1:Q3:364:PHE:HZ	1:Z8:108:MET:CE	1.90	0.73
1:T4:27:HIS:HD1	1:BS:312:PRO:HD3	1.53	0.73
1:T4:49:PHE:C	1:AS:137:ASP:OD2	2.31	0.73
1:T4:366:ASN:CG	1:KS:108:MET:SD	2.71	0.73
2:U4:5:ASN:C	1:BS:153:LEU:HD12	2.12	0.73
1:f4:14:VAL:CG2	1:B6:14:VAL:CG2	2.65	0.73
1:g4:119:LYS:HD2	1:CD:36:GLY:C	2.13	0.73
1:g4:223:GLY:HA3	1:CD:53:TYR:CZ	2.23	0.73
1:i4:366:ASN:CG	1:LD:108:MET:SD	2.71	0.73
1:Q6:27:HIS:CB	1:LJ:312:PRO:CD	2.50	0.73
1:g6:148:ALA:CA	2:NP:15:TYR:CE2	2.63	0.73
1:g6:280:PHE:HE2	1:g6:320:ASP:HA	1.51	0.73
1:i6:14:VAL:CB	1:DJ:14:VAL:CG1	2.62	0.73
1:B7:38:LYS:HE3	1:BP:221:ALA:O	1.88	0.73
1:Z7:115:ARG:NH2	1:IR:300:TYR:HA	2.02	0.73
3:AA:202:ASN:HD21	5:DN:38:TYR:CB	1.99	0.73
1:BE:98:ASN:ND2	1:DJ:30:SER:OG	2.21	0.73
1:KE:280:PHE:HE2	1:KE:320:ASP:HA	1.51	0.73
4:BF:146:ALA:O	4:BM:193:VAL:N	2.18	0.73
5:DF:38:TYR:CB	3:AI:202:ASN:HD21	1.98	0.73
1:AJ:223:GLY:CA	1:JS:53:TYR:CZ	2.65	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FJ:2:TYR:HB3	1:LP:150:ASN:ND2	2.03	0.73
1:LJ:21:ALA:HB1	1:CS:123:ASN:HD22	1.50	0.73
1:LJ:31:LYS:HB3	1:CS:316:VAL:HG13	1.69	0.73
1:LK:29:TYR:CZ	1:DP:302:ASP:CB	2.70	0.73
1:DP:30:SER:OG	1:hR:98:ASN:ND2	2.21	0.73
1:YR:208:LEU:CD1	1:YR:391:ILE:HD11	2.15	0.73
1:R1:115:ARG:NH2	1:Q6:300:TYR:HA	2.02	0.73
5:E2:11:PHE:HB2	5:D9:67:ASP:HB2	1.69	0.73
5:F2:46:TYR:CB	5:FB:31:PHE:CZ	2.61	0.73
1:I3:53:TYR:CD1	1:QL:222:SER:OG	2.39	0.73
1:J4:115:ARG:NH2	1:C8:300:TYR:HA	2.02	0.73
1:T4:366:ASN:CA	1:KS:108:MET:HE1	2.14	0.73
3:A5:150:TYR:CB	1:AJ:144:THR:CB	2.59	0.73
1:Q6:45:MET:HB2	1:CJ:19:LYS:HG2	0.74	0.73
1:a6:47:GLU:HG3	1:SE:22:LEU:HB2	1.68	0.73
2:f6:55:GLY:CA	2:PR:2:TYR:HB2	2.18	0.73
1:g6:58:ILE:CD1	1:CP:55:PHE:HD2	2.01	0.73
1:C7:28:ASP:O	1:AK:98:ASN:CB	2.35	0.73
1:J7:210:ASN:ND2	1:bQ:71:ARG:NH2	2.29	0.73
1:a7:47:GLU:HG3	1:KE:22:LEU:HB2	1.68	0.73
1:g7:22:LEU:HB2	1:CE:47:GLU:HG3	1.68	0.73
2:n7:2:TYR:HB2	2:HQ:55:GLY:CA	2.19	0.73
1:i8:50:VAL:HG23	1:DD:137:ASP:CG	2.11	0.73
5:E9:11:PHE:HB2	5:DA:67:ASP:HB2	1.69	0.73
3:AC:304:ASP:OD2	3:AH:279:ASN:ND2	2.21	0.73
5:CC:265:LEU:CG	5:NH:231:ASN:CB	2.61	0.73
1:KD:25:PHE:HB3	1:JS:101:LEU:HD23	1.69	0.73
1:KD:33:TRP:NE1	1:IS:174:MET:HA	2.03	0.73
1:LD:29:TYR:CZ	1:DK:302:ASP:CB	2.70	0.73
1:FE:366:ASN:CG	1:LP:108:MET:SD	2.71	0.73
2:ZE:2:TYR:HB2	2:fR:55:GLY:CA	2.19	0.73
1:gG:280:PHE:HE2	1:gG:320:ASP:HA	1.51	0.73
1:DJ:120:LEU:CD1	1:LP:55:PHE:HD1	1.91	0.73
1:KJ:53:TYR:CZ	1:AP:223:GLY:CA	2.65	0.73
1:AK:316:VAL:N	1:KP:30:SER:O	2.20	0.73
1:CK:136:ASN:O	1:hR:81:PHE:CZ	2.41	0.73
1:QQ:280:PHE:HE2	1:QQ:320:ASP:HA	1.51	0.73
2:H1:55:GLY:CA	2:HL:2:TYR:HB2	2.18	0.73
1:Q1:22:LEU:HB2	1:KG:47:GLU:HG3	1.68	0.73
1:Q1:300:TYR:HA	1:R6:115:ARG:NH2	2.02	0.73
1:T1:367:PRO:HD2	1:LJ:108:MET:HE3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X1:37:ASP:OD1	1:I8:120:LEU:O	2.07	0.73
3:A2:304:ASP:OD2	3:A9:279:ASN:ND2	2.21	0.73
1:R4:81:PHE:CZ	1:BS:136:ASN:O	2.41	0.73
1:R4:87:GLU:CD	1:BS:55:PHE:H	1.96	0.73
1:R4:119:LYS:HD2	1:BS:36:GLY:C	2.13	0.73
1:i4:27:HIS:HD1	1:CD:312:PRO:HD3	1.53	0.73
2:j4:5:ASN:C	1:CD:153:LEU:HD12	2.12	0.73
2:j4:15:TYR:OH	1:CD:138:THR:HG21	1.87	0.73
4:B5:33:TYR:HE1	5:EO:57:GLU:HB3	1.34	0.73
1:B7:49:PHE:CD1	1:DP:22:LEU:CD1	2.70	0.73
1:B7:57:LYS:HB3	1:DP:143:GLN:HG3	1.70	0.73
1:Y7:208:LEU:CD1	1:Y7:391:ILE:HD11	2.16	0.73
1:g7:280:PHE:HE2	1:g7:320:ASP:HA	1.51	0.73
1:J8:108:MET:CE	1:CR:364:PHE:HZ	1.90	0.73
1:g8:280:PHE:HE2	1:g8:320:ASP:HA	1.51	0.73
5:E9:140:ASP:HB3	5:C9:139:LYS:CD	2.14	0.73
5:CA:265:LEU:HD13	5:NC:231:ASN:CA	2.15	0.73
3:AC:194:ASN:HD21	5:EN:36:ALA:CB	2.01	0.73
1:CD:45:MET:HE3	1:YG:13:LEU:C	2.10	0.73
1:LD:57:LYS:CE	1:KK:61:THR:HG21	2.17	0.73
1:YG:305:SER:HB3	1:DK:28:ASP:OD2	1.88	0.73
3:AH:202:ASN:HD21	5:DI:38:TYR:CB	1.99	0.73
4:BI:203:ASN:OD1	4:BO:136:SER:OG	2.06	0.73
1:CJ:265:ASP:OD2	2:EJ:41:TYR:CE1	2.40	0.73
1:KJ:25:PHE:HA	1:KP:100:ASP:CA	2.13	0.73
1:KJ:51:ASN:HD22	1:AP:116:MET:CG	1.99	0.73
2:MJ:15:TYR:CB	1:JS:149:THR:HG23	2.17	0.73
1:CK:53:TYR:CZ	1:hR:223:GLY:HA3	2.23	0.73
1:LK:25:PHE:HB3	1:BP:99:MET:O	1.85	0.73
1:LK:57:LYS:CE	1:KP:61:THR:HG21	2.17	0.73
1:IL:22:LEU:HB2	1:KQ:47:GLU:HG3	1.68	0.73
4:BM:136:SER:OG	4:BO:203:ASN:OD1	2.06	0.73
3:AO:155:GLU:HB2	1:IS:143:GLN:O	1.89	0.73
1:I1:280:PHE:HE2	1:I1:320:ASP:HA	1.51	0.73
1:I1:300:TYR:HA	1:JG:115:ARG:NH2	2.02	0.73
1:S1:255:ILE:HG23	1:S1:261:ILE:CD1	2.15	0.73
1:T1:19:LYS:HB3	1:BJ:45:MET:HG3	1.70	0.73
1:T1:27:HIS:HD1	1:CJ:312:PRO:HD3	1.53	0.73
2:U1:11:MET:HG2	1:CJ:133:LEU:CB	2.18	0.73
3:A2:154:ILE:CG2	1:AK:55:PHE:H	2.02	0.73
1:I3:120:LEU:O	1:I4:37:ASP:OD1	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h4:14:VAL:CG2	1:gG:14:VAL:CG2	2.65	0.73
5:E5:11:PHE:HB2	5:DI:67:ASP:HB2	1.70	0.73
2:H6:55:GLY:CA	2:P7:2:TYR:HB2	2.18	0.73
1:g6:27:HIS:CB	1:LP:312:PRO:CD	2.49	0.73
1:Q7:37:ASP:OD1	1:YL:120:LEU:O	2.07	0.73
1:S7:47:GLU:HG3	1:QR:22:LEU:HB2	1.68	0.73
1:Q8:120:LEU:O	1:IG:37:ASP:OD1	2.07	0.73
3:AA:304:ASP:OD2	3:AC:279:ASN:ND2	2.21	0.73
4:BB:117:GLU:HB2	4:BB:220:THR:HG23	1.67	0.73
1:AD:98:ASN:CB	1:YG:28:ASP:O	2.35	0.73
1:DD:316:VAL:HG13	1:KS:31:LYS:HD3	0.75	0.73
1:KD:148:ALA:HB1	2:LS:15:TYR:CD1	2.24	0.73
1:LD:38:LYS:HG2	1:DK:119:LYS:HZ1	1.47	0.73
1:LD:47:GLU:CB	1:KK:20:SER:HB2	2.17	0.73
2:MD:2:TYR:CE2	1:KK:153:LEU:HD12	2.19	0.73
2:MD:15:TYR:CD1	1:KK:148:ALA:HB1	2.24	0.73
1:QG:208:LEU:CD1	1:QG:391:ILE:HD11	2.16	0.73
3:AH:111:ASP:HA	2:MP:19:ARG:CZ	2.18	0.73
1:KJ:105:GLU:O	1:CS:109:LEU:CG	2.29	0.73
1:KJ:148:ALA:HB1	2:MP:15:TYR:CD1	2.24	0.73
1:LJ:31:LYS:HD3	1:CS:316:VAL:HG13	0.75	0.73
1:LJ:33:TRP:CZ3	1:CS:173:ALA:CB	2.47	0.73
1:CK:31:LYS:HE2	1:hR:316:VAL:HG23	1.69	0.73
1:CK:36:GLY:C	1:hR:119:LYS:HD2	2.14	0.73
1:LK:108:MET:SD	1:jR:366:ASN:CG	2.71	0.73
1:QL:300:TYR:HA	1:RR:115:ARG:NH2	2.02	0.73
1:RL:115:ARG:NH2	1:QR:300:TYR:HA	2.02	0.73
1:YL:37:ASP:OD1	1:QR:120:LEU:O	2.07	0.73
2:fL:55:GLY:CA	2:HR:2:TYR:HB2	2.19	0.73
1:f1:73:ASN:O	2:HQ:25:GLU:OE1	1.93	0.73
3:A2:33:ASN:ND2	1:AK:58:ILE:CD1	0.58	0.73
3:A2:150:TYR:N	3:AB:37:GLU:OE2	2.20	0.73
2:H4:25:GLU:OE1	1:QG:73:ASN:O	1.93	0.73
1:K4:14:VAL:HG21	1:QL:14:VAL:CG2	2.19	0.73
2:e4:25:GLU:OE1	1:Y8:73:ASN:O	1.92	0.73
1:i4:49:PHE:C	1:BD:137:ASP:OD2	2.31	0.73
1:J6:108:MET:CE	1:IR:364:PHE:HZ	1.90	0.73
1:Q6:143:GLN:O	1:LJ:82:ILE:HG12	1.63	0.73
1:g6:32:SER:O	1:LP:382:LYS:CG	2.37	0.73
1:I7:300:TYR:HA	1:cQ:115:ARG:NH2	2.02	0.73
1:Q7:20:SER:CB	1:aL:47:GLU:HB3	2.14	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i7:47:GLU:HB3	1:C8:20:SER:CB	2.14	0.73
1:a8:14:VAL:CG2	1:bQ:14:VAL:CG2	2.65	0.73
3:AC:29:ARG:CD	1:AP:136:ASN:O	2.36	0.73
3:AC:155:GLU:CA	1:AP:58:ILE:HD13	2.17	0.73
4:BC:117:GLU:HB2	4:BC:220:THR:HG23	1.67	0.73
1:CD:22:LEU:HD22	1:YG:47:GLU:OE2	1.89	0.73
1:LD:145:LEU:HD23	1:DK:80:ASP:HB3	1.67	0.73
1:SE:208:LEU:HD11	1:SE:391:ILE:HD13	1.45	0.73
1:SE:280:PHE:HE2	1:SE:320:ASP:HA	1.51	0.73
1:aE:208:LEU:CD1	1:aE:391:ILE:HD12	1.95	0.73
1:CG:300:TYR:HA	1:ZL:115:ARG:NH2	2.02	0.73
2:XG:2:TYR:HB2	2:HR:55:GLY:CA	2.18	0.73
1:aG:38:LYS:HE3	1:BK:221:ALA:O	1.88	0.73
1:aG:368:GLU:CD	1:CK:107:LEU:HD23	2.12	0.73
1:hG:115:ARG:NH2	1:CL:300:TYR:HA	2.02	0.73
1:DJ:109:LEU:CG	1:KP:105:GLU:O	2.29	0.73
1:BK:45:MET:HG3	1:jR:19:LYS:HB3	1.70	0.73
1:I1:14:VAL:CG2	1:UE:14:VAL:HG21	2.19	0.73
1:I1:20:SER:CB	1:UE:47:GLU:HB3	2.14	0.73
1:K1:14:VAL:HG21	1:Y6:14:VAL:CG2	2.19	0.73
1:Q1:14:VAL:CG2	1:KG:14:VAL:HG21	2.19	0.73
1:Q1:37:ASP:OD1	1:IG:120:LEU:O	2.07	0.73
1:X1:14:VAL:CG2	1:K8:14:VAL:HG21	2.19	0.73
1:X1:22:LEU:HB2	1:K8:47:GLU:HG3	1.68	0.73
1:X1:73:ASN:O	2:P6:25:GLU:OE1	1.93	0.73
1:Z1:47:GLU:HG3	1:IR:22:LEU:HB2	1.68	0.73
1:C4:120:LEU:O	1:aE:37:ASP:OD1	2.07	0.73
2:H4:55:GLY:CA	2:HQ:2:TYR:HB2	2.18	0.73
1:I4:120:LEU:O	1:QL:37:ASP:OD1	2.07	0.73
1:K4:47:GLU:HG3	1:QL:22:LEU:HB2	1.68	0.73
1:Q4:37:ASP:OD1	1:IL:120:LEU:O	2.07	0.73
1:Q4:208:LEU:CD1	1:Q4:391:ILE:HD11	2.16	0.73
1:R4:223:GLY:N	1:BS:53:TYR:CE1	2.56	0.73
2:U4:15:TYR:OH	1:BS:138:THR:HG21	1.87	0.73
1:X4:280:PHE:HE2	1:X4:320:ASP:HA	1.51	0.73
3:A5:114:PHE:CE1	2:MJ:21:ASN:C	2.59	0.73
5:C5:265:LEU:CG	5:NI:231:ASN:CB	2.61	0.73
1:S6:49:PHE:CD1	1:CS:22:LEU:CD1	2.70	0.73
1:S6:57:LYS:HB3	1:CS:143:GLN:HG3	1.70	0.73
1:g6:20:SER:HB2	1:CP:47:GLU:HG3	1.64	0.73
1:g6:29:TYR:O	1:LP:312:PRO:HD2	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i6:57:LYS:CE	1:DJ:143:GLN:CD	2.51	0.73
1:C7:32:SER:C	1:LK:174:MET:HE3	2.12	0.73
1:C7:57:LYS:HD2	1:CK:143:GLN:HE21	1.45	0.73
1:B7:13:LEU:C	1:DP:45:MET:SD	2.63	0.73
1:i7:14:VAL:HG21	1:C8:14:VAL:CG2	2.19	0.73
1:B8:14:VAL:HG21	1:AE:14:VAL:CG2	2.19	0.73
1:B8:47:GLU:HG3	1:AE:22:LEU:HB2	1.68	0.73
2:P8:2:TYR:HB2	2:hE:55:GLY:CA	2.19	0.73
5:C9:265:LEU:CG	5:NA:231:ASN:CB	2.61	0.73
5:EC:140:ASP:HB3	5:CC:139:LYS:HB2	1.62	0.73
1:LD:31:LYS:HB3	1:DK:316:VAL:HG13	1.69	0.73
1:LD:144:THR:C	1:DK:82:ILE:HD13	2.12	0.73
1:FE:49:PHE:C	1:BP:137:ASP:OD2	2.31	0.73
2:JE:11:MET:CE	1:DJ:372:VAL:CG2	2.65	0.73
1:ME:47:GLU:HB3	1:QQ:20:SER:CB	2.13	0.73
1:aE:120:LEU:O	1:CG:37:ASP:OD1	2.07	0.73
1:aG:46:PHE:HZ	1:DK:39:TRP:CH2	2.06	0.73
3:AI:194:ASN:HD21	5:EM:36:ALA:CB	2.01	0.73
1:CK:312:PRO:HD3	1:jR:27:HIS:HD1	1.53	0.73
1:KK:101:LEU:HD23	1:KP:25:PHE:HB3	1.69	0.73
1:LK:372:VAL:HG11	2:FP:10:MET:HB2	1.71	0.73
1:SL:255:ILE:HG23	1:SL:261:ILE:CD1	2.15	0.73
1:bQ:280:PHE:HE2	1:bQ:320:ASP:HA	1.51	0.73
2:cR:45:ILE:CG1	2:cR:46:HIS:N	2.36	0.73
1:C1:304:GLN:CD	1:A6:97:ILE:HD12	2.14	0.73
1:K1:47:GLU:HG3	1:Y6:22:LEU:HB2	1.68	0.73
1:R1:375:TRP:CE3	1:CJ:367:PRO:CG	2.72	0.73
2:U1:15:TYR:OH	1:CJ:138:THR:HG21	1.87	0.73
1:Y1:207:ASN:ND2	1:I6:244:ASP:OD2	2.22	0.73
1:f1:120:LEU:O	1:QG:37:ASP:OD1	2.07	0.73
5:D2:67:ASP:HB2	5:EB:11:PHE:HB2	1.69	0.73
1:J3:97:ILE:HD12	1:Q8:304:GLN:CD	2.14	0.73
2:P3:55:GLY:CA	2:X6:2:TYR:HB2	2.18	0.73
1:Q3:120:LEU:O	1:CR:37:ASP:OD1	2.07	0.73
2:X3:2:TYR:HB2	2:P6:55:GLY:CA	2.19	0.73
1:C4:280:PHE:HE2	1:C4:320:ASP:HA	1.51	0.73
1:Q4:71:ARG:NH2	1:h8:210:ASN:ND2	2.29	0.73
1:R4:375:TRP:CE3	1:BS:367:PRO:CG	2.72	0.73
1:T4:367:PRO:HD2	1:KS:108:MET:HE3	1.69	0.73
2:e4:2:TYR:HB2	2:P7:55:GLY:CA	2.19	0.73
1:f4:73:ASN:O	2:fG:25:GLU:OE1	1.92	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g4:81:PHE:CZ	1:CD:136:ASN:O	2.41	0.73
5:D5:67:ASP:HB2	5:EN:11:PHE:HB2	1.69	0.73
1:Q6:20:SER:C	1:CJ:47:GLU:CG	2.62	0.73
1:A7:207:ASN:ND2	1:gR:244:ASP:OD2	2.22	0.73
1:Q7:304:GLN:CD	1:RQ:97:ILE:HD12	2.14	0.73
1:Y7:37:ASP:OD1	1:QQ:120:LEU:O	2.07	0.73
1:g7:321:VAL:HG22	1:g7:327:PHE:HD2	1.49	0.73
1:I8:14:VAL:CG2	1:KR:14:VAL:HG21	2.19	0.73
2:n8:55:GLY:CA	2:fR:2:TYR:HB2	2.18	0.73
5:FA:31:PHE:CZ	5:FC:46:TYR:CB	2.61	0.73
5:CA:266:THR:CB	5:NC:230:SER:CA	2.49	0.73
1:AD:58:ILE:HD13	3:AF:32:PHE:CE1	2.16	0.73
1:AD:297:LEU:CD1	1:KK:29:TYR:HH	2.00	0.73
1:DD:316:VAL:HG13	1:KS:31:LYS:HB3	1.69	0.73
1:KD:55:PHE:CE2	1:KS:58:ILE:HG22	2.20	0.73
1:KD:76:ALA:O	3:AF:83:TYR:O	2.05	0.73
1:LD:150:ASN:ND2	2:FK:2:TYR:HB3	2.03	0.73
3:AF:279:ASN:ND2	3:AM:304:ASP:OD2	2.21	0.73
4:BF:136:SER:OG	4:BM:203:ASN:OD1	2.06	0.73
5:EI:11:PHE:HB2	5:DO:67:ASP:HB2	1.69	0.73
1:LK:57:LYS:HZ1	1:KP:61:THR:CG2	2.02	0.73
1:IL:73:ASN:O	2:fR:25:GLU:OE1	1.93	0.73
3:AM:112:ILE:HG23	2:LS:17:ASP:HB3	1.67	0.73
1:C1:14:VAL:CG2	1:dQ:14:VAL:HG21	2.19	0.73
1:C1:244:ASP:OD2	1:A6:207:ASN:ND2	2.22	0.73
1:A1:97:ILE:HD12	1:C6:304:GLN:CD	2.14	0.73
1:A1:207:ASN:ND2	1:C6:244:ASP:OD2	2.22	0.73
1:I1:120:LEU:O	1:Y6:37:ASP:OD1	2.07	0.73
1:S1:14:VAL:HG21	1:Q8:14:VAL:CG2	2.19	0.73
1:X1:244:ASP:OD2	1:J6:207:ASN:ND2	2.22	0.73
1:Z1:14:VAL:HG21	1:IR:14:VAL:CG2	2.19	0.73
1:f1:280:PHE:HE2	1:f1:320:ASP:HA	1.51	0.73
5:E2:36:ALA:CB	3:AF:194:ASN:HD21	2.01	0.73
5:E2:57:GLU:CA	4:BF:33:TYR:CZ	2.65	0.73
1:I3:14:VAL:CG2	1:SL:14:VAL:HG21	2.19	0.73
1:I3:304:GLN:CD	1:R8:97:ILE:HD12	2.14	0.73
1:K3:14:VAL:HG21	1:I4:14:VAL:CG2	2.19	0.73
1:R3:115:ARG:NH2	1:I8:300:TYR:HA	2.02	0.73
1:C4:37:ASP:OD1	1:CG:120:LEU:O	2.07	0.73
1:C4:244:ASP:OD2	1:RG:207:ASN:ND2	2.22	0.73
1:C4:300:TYR:HA	1:RG:115:ARG:NH2	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R4:207:ASN:ND2	1:g8:244:ASP:OD2	2.22	0.73
1:X4:304:GLN:CD	1:Z8:97:ILE:HD12	2.14	0.73
1:f4:120:LEU:O	1:gG:37:ASP:OD1	2.07	0.73
1:g4:97:ILE:HD12	1:YG:304:GLN:CD	2.14	0.73
1:C6:14:VAL:CG2	1:iG:14:VAL:HG21	2.19	0.73
1:g6:20:SER:C	1:CP:47:GLU:HG2	2.13	0.73
1:i6:38:LYS:HE3	1:BJ:221:ALA:O	1.88	0.73
1:C7:45:MET:HB2	1:CK:19:LYS:HG2	0.74	0.73
1:C7:244:ASP:OD2	1:hR:207:ASN:ND2	2.22	0.73
1:I7:280:PHE:HE2	1:I7:320:ASP:HA	1.51	0.73
1:Q7:244:ASP:OD2	1:RQ:207:ASN:ND2	2.22	0.73
2:H8:55:GLY:CA	2:X8:2:TYR:HB2	2.18	0.73
2:X8:55:GLY:CA	2:XR:2:TYR:HB2	2.18	0.73
1:Y8:120:LEU:O	1:bQ:37:ASP:OD1	2.07	0.73
1:g8:29:TYR:O	1:KS:312:PRO:HD2	1.89	0.73
1:g8:54:LEU:HD23	1:KS:118:THR:HG23	1.68	0.73
4:B9:33:TYR:HE1	5:EC:57:GLU:HB3	1.34	0.73
3:AB:117:PRO:CD	2:MD:19:ARG:HH11	1.92	0.73
5:EB:36:ALA:CB	3:AM:194:ASN:HD21	2.01	0.73
5:FB:55:LEU:HD12	4:BM:32:PHE:CD1	2.24	0.73
5:CC:265:LEU:HD13	5:NH:231:ASN:CA	2.15	0.73
1:KD:28:ASP:OD2	1:IS:305:SER:HB2	1.88	0.73
1:LD:118:THR:HG21	1:YG:54:LEU:CA	2.02	0.73
1:BE:316:VAL:CG2	1:CP:31:LYS:NZ	2.52	0.73
2:HE:11:MET:HG2	1:CP:133:LEU:CB	2.18	0.73
1:KE:120:LEU:O	1:QQ:37:ASP:OD1	2.07	0.73
1:aE:46:PHE:HD1	1:AR:85:TYR:HH	1.33	0.73
1:aE:244:ASP:OD2	1:AR:207:ASN:ND2	2.22	0.73
1:aE:302:ASP:CG	1:CG:29:TYR:HH	1.96	0.73
1:aE:304:GLN:CD	1:AR:97:ILE:HD12	2.14	0.73
1:hG:202:PHE:HD2	1:CL:248:SER:HG	1.37	0.73
2:nG:2:TYR:HB2	2:PL:55:GLY:CA	2.19	0.73
1:KJ:25:PHE:HB3	1:KP:101:LEU:HD23	1.69	0.73
1:KJ:28:ASP:CG	1:AP:305:SER:HB3	2.14	0.73
1:AK:174:MET:HA	1:KP:33:TRP:NE1	2.03	0.73
1:RQ:108:MET:CE	1:QR:364:PHE:HZ	1.90	0.73
2:P1:55:GLY:CA	2:P3:2:TYR:HB2	2.18	0.73
2:m1:55:GLY:CA	2:iQ:2:TYR:HB2	2.19	0.73
2:H4:2:TYR:HB2	2:n7:55:GLY:CA	2.18	0.73
1:R4:105:GLU:HA	1:DD:369:PHE:HE2	0.75	0.73
1:R4:316:VAL:CG2	1:BS:31:LYS:NZ	2.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S4:14:VAL:HG21	1:IQ:14:VAL:CG2	2.19	0.73
1:i4:32:SER:HA	1:CD:125:ILE:HD12	1.71	0.73
2:P6:2:TYR:HB2	2:f7:55:GLY:CA	2.18	0.73
1:Q6:32:SER:O	1:LJ:382:LYS:CG	2.37	0.73
1:S6:14:VAL:HG21	1:CS:14:VAL:HG12	0.79	0.73
1:g6:47:GLU:H	1:CP:19:LYS:NZ	1.86	0.73
1:C7:27:HIS:CB	1:LK:312:PRO:CD	2.50	0.73
1:Z7:97:ILE:HD12	1:IR:304:GLN:CD	2.14	0.73
1:C8:120:LEU:O	1:AE:37:ASP:OD1	2.07	0.73
1:S8:14:VAL:HG21	1:IG:14:VAL:CG2	2.19	0.73
1:g8:47:GLU:OE2	1:BS:22:LEU:HD22	1.89	0.73
1:i8:57:LYS:CE	1:DD:143:GLN:CD	2.50	0.73
2:n8:2:TYR:HB2	2:ZE:55:GLY:CA	2.18	0.73
4:B9:193:VAL:N	4:BA:146:ALA:O	2.18	0.73
3:AC:155:GLU:CB	1:AP:58:ILE:CD1	1.98	0.73
1:AD:223:GLY:CA	1:KK:53:TYR:CZ	2.65	0.73
1:DD:80:ASP:HB3	1:KS:145:LEU:HD23	1.67	0.73
1:DD:173:ALA:CB	1:KS:33:TRP:CZ3	2.47	0.73
1:LD:382:LYS:CG	1:YG:32:SER:O	2.37	0.73
1:BE:81:PHE:CZ	1:CP:136:ASN:O	2.41	0.73
1:AG:97:ILE:HD12	1:YL:304:GLN:CD	2.14	0.73
2:HG:55:GLY:CA	2:XL:2:TYR:HB2	2.19	0.73
2:fG:2:TYR:HB2	2:HL:55:GLY:CA	2.19	0.73
3:AI:37:GLU:OE2	3:AO:150:TYR:N	2.20	0.73
4:BI:33:TYR:HH	5:EM:57:GLU:HA	1.53	0.73
1:AJ:304:GLN:NE2	1:JS:28:ASP:HA	2.04	0.73
1:BK:137:ASP:OD2	1:jR:49:PHE:C	2.31	0.73
1:CK:31:LYS:NZ	1:hR:316:VAL:CG2	2.52	0.73
1:CK:32:SER:O	1:hR:382:LYS:HG2	1.89	0.73
2:EQ:45:ILE:CG1	2:EQ:46:HIS:N	2.36	0.73
1:T1:366:ASN:CA	1:LJ:108:MET:HE1	2.14	0.73
2:W1:6:ASN:H	1:CS:153:LEU:HD13	1.54	0.73
4:B2:203:ASN:OD1	4:B9:136:SER:OG	2.06	0.73
1:C3:14:VAL:CG2	1:SG:14:VAL:HG21	2.19	0.73
1:A3:207:ASN:ND2	1:g7:244:ASP:OD2	2.22	0.73
1:Q3:14:VAL:CG2	1:Z4:14:VAL:HG21	2.19	0.73
1:Q3:139:ARG:HD3	1:X4:81:PHE:CD2	2.21	0.73
1:Q3:304:GLN:CD	1:J8:97:ILE:HD12	2.14	0.73
1:T3:325:LYS:HB2	1:T3:325:LYS:HZ2	1.53	0.73
1:C4:22:LEU:HB2	1:BG:47:GLU:HG3	1.68	0.73
1:R4:115:ARG:NH2	1:g8:300:TYR:HA	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j4:11:MET:HG2	1:CD:133:LEU:CB	2.18	0.73
1:I6:14:VAL:CG2	1:aR:14:VAL:HG21	2.19	0.73
1:Q6:20:SER:C	1:CJ:47:GLU:HG2	2.13	0.73
1:g6:305:SER:HB3	1:DJ:28:ASP:OD2	1.88	0.73
2:H7:2:TYR:HB2	2:iQ:55:GLY:CA	2.19	0.73
1:R7:97:ILE:HD12	1:QQ:304:GLN:CD	2.14	0.73
1:Z7:108:MET:CE	1:I8:364:PHE:HZ	1.90	0.73
1:g7:208:LEU:HD11	1:g7:391:ILE:HD13	1.45	0.73
1:I8:37:ASP:OD1	1:IR:120:LEU:O	2.07	0.73
1:I8:280:PHE:HE2	1:I8:320:ASP:HA	1.51	0.73
2:P8:55:GLY:CA	2:f8:2:TYR:HB2	2.19	0.73
1:CD:19:LYS:NZ	1:YG:47:GLU:H	1.86	0.73
1:CD:45:MET:HE2	1:YG:14:VAL:CB	2.02	0.73
1:LD:372:VAL:HG11	2:FK:10:MET:HB2	1.71	0.73
1:SE:73:ASN:O	2:PQ:25:GLU:OE1	1.93	0.73
1:SE:321:VAL:HG22	1:SE:327:PHE:HD2	1.49	0.73
1:bE:207:ASN:ND2	1:CR:244:ASP:OD2	2.22	0.73
1:dE:325:LYS:HB2	1:dE:325:LYS:HZ2	1.50	0.73
5:EF:36:ALA:CB	3:AO:194:ASN:HD21	2.01	0.73
2:PG:55:GLY:CA	2:PQ:2:TYR:HB2	2.19	0.73
2:FJ:9:SER:HB2	1:LP:363:PRO:HG2	1.67	0.73
1:KJ:133:LEU:HD22	2:MP:11:MET:HG3	1.71	0.73
2:MJ:15:TYR:CD1	1:JS:148:ALA:HB1	2.24	0.73
1:AK:116:MET:CG	1:KP:51:ASN:HD22	1.99	0.73
1:CK:53:TYR:CE1	1:hR:223:GLY:N	2.56	0.73
1:CL:280:PHE:HE2	1:CL:320:ASP:HA	1.51	0.73
1:IL:280:PHE:HE2	1:IL:320:ASP:HA	1.51	0.73
3:AO:36:LEU:HD21	1:IS:139:ARG:CD	2.18	0.73
1:QQ:208:LEU:CD1	1:QQ:391:ILE:HD11	2.15	0.73
1:IS:60:GLU:CD	1:JS:86:SER:HB2	2.12	0.73
1:R1:174:MET:HG3	1:CJ:33:TRP:CG	2.24	0.72
2:e1:2:TYR:HB2	2:nG:55:GLY:CA	2.19	0.72
3:A2:61:ALA:O	1:KK:357:LYS:NZ	2.19	0.72
2:H3:2:TYR:HB2	2:P4:55:GLY:CA	2.19	0.72
1:A4:210:ASN:ND2	1:QG:71:ARG:NH2	2.29	0.72
1:R4:98:ASN:ND2	1:DD:30:SER:OG	2.21	0.72
2:U4:11:MET:HG2	1:BS:133:LEU:CB	2.18	0.72
1:Y4:207:ASN:ND2	1:Y8:244:ASP:OD2	2.22	0.72
1:f4:244:ASP:OD2	1:ZG:207:ASN:ND2	2.22	0.72
1:g4:316:VAL:HG23	1:CD:31:LYS:HE2	1.69	0.72
1:Q6:20:SER:HB2	1:CJ:47:GLU:HB3	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i6:46:PHE:HZ	1:DJ:39:TRP:CH2	2.06	0.72
1:C7:47:GLU:H	1:CK:19:LYS:NZ	1.86	0.72
1:I7:244:ASP:OD2	1:cQ:207:ASN:ND2	2.22	0.72
1:g8:32:SER:O	1:KS:382:LYS:CG	2.37	0.72
5:D9:38:TYR:CB	3:AF:202:ASN:HD21	1.99	0.72
4:BC:203:ASN:OD1	4:BH:136:SER:OG	2.06	0.72
5:CC:265:LEU:CD1	5:NH:231:ASN:CB	2.14	0.72
1:AD:140:PHE:C	3:AF:29:ARG:HD2	2.12	0.72
1:AD:174:MET:HA	1:KK:33:TRP:NE1	2.03	0.72
1:CD:47:GLU:CG	1:YG:20:SER:C	2.62	0.72
1:KD:133:LEU:HD22	2:LS:11:MET:HG3	1.71	0.72
1:CE:106:GLU:N	1:LP:109:LEU:HD21	1.99	0.72
1:ME:14:VAL:HG21	1:QQ:14:VAL:CG2	2.19	0.72
1:SE:244:ASP:OD2	1:JQ:207:ASN:ND2	2.22	0.72
1:cE:14:VAL:HG21	1:CG:14:VAL:CG2	2.19	0.72
1:hG:207:ASN:ND2	1:CL:244:ASP:OD2	2.22	0.72
1:KJ:61:THR:HG21	1:LP:57:LYS:CE	2.17	0.72
1:KJ:105:GLU:HG2	1:CS:110:LYS:C	1.91	0.72
1:LJ:57:LYS:HZ1	1:JS:61:THR:CG2	2.02	0.72
1:LK:150:ASN:ND2	2:FP:2:TYR:HB3	2.03	0.72
1:DP:153:LEU:HD13	2:mR:6:ASN:H	1.54	0.72
1:BQ:14:VAL:HG21	1:gR:14:VAL:CG2	2.19	0.72
1:CS:261:ILE:CD1	1:CS:265:ASP:OD1	2.37	0.72
1:C1:139:ARG:HD3	1:bQ:81:PHE:CD2	2.21	0.72
1:K1:255:ILE:HG23	1:K1:261:ILE:CD1	2.15	0.72
1:R1:81:PHE:CZ	1:CJ:136:ASN:O	2.41	0.72
1:R1:98:ASN:ND2	1:CS:30:SER:OG	2.21	0.72
1:f1:304:GLN:CD	1:AQ:97:ILE:HD12	2.14	0.72
4:B2:32:PHE:HE1	5:FA:51:ARG:HD3	1.54	0.72
1:C3:37:ASP:OD1	1:QG:120:LEU:O	2.07	0.72
2:H3:25:GLU:OE1	1:g7:73:ASN:O	1.93	0.72
1:Q3:37:ASP:OD1	1:X4:120:LEU:O	2.07	0.72
1:Q3:280:PHE:HE2	1:Q3:320:ASP:HA	1.51	0.72
2:d3:11:MET:CG	1:BD:133:LEU:HB3	2.16	0.72
1:C4:139:ARG:HD2	1:CG:81:PHE:HD2	1.25	0.72
1:A4:97:ILE:HD12	1:QG:304:GLN:CD	2.14	0.72
1:I4:244:ASP:OD2	1:A8:207:ASN:ND2	2.22	0.72
1:Q4:120:LEU:O	1:IQ:37:ASP:OD1	2.07	0.72
1:Q4:304:GLN:CD	1:h8:97:ILE:HD12	2.14	0.72
1:f4:37:ASP:OD1	1:C6:120:LEU:O	2.07	0.72
1:g4:223:GLY:N	1:CD:53:TYR:CE1	2.56	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g4:316:VAL:CG2	1:CD:31:LYS:NZ	2.52	0.72
3:A5:152:SER:O	1:AJ:145:LEU:HD11	1.84	0.72
1:Q6:47:GLU:OE2	1:CJ:22:LEU:HD22	1.89	0.72
1:g6:20:SER:HB2	1:CP:47:GLU:HB3	1.70	0.72
1:g6:140:PHE:CE2	1:LP:123:ASN:ND2	2.58	0.72
1:i6:57:LYS:HB3	1:DJ:143:GLN:HG3	1.70	0.72
1:I7:120:LEU:O	1:CQ:37:ASP:OD1	2.07	0.72
1:S7:14:VAL:HG21	1:QR:14:VAL:CG2	2.19	0.72
1:a7:14:VAL:HG21	1:KE:14:VAL:CG2	2.19	0.72
1:i8:14:VAL:CB	1:DD:14:VAL:CG1	2.62	0.72
4:BC:33:TYR:HH	5:EN:57:GLU:HA	1.52	0.72
1:AD:144:THR:CB	3:AF:36:LEU:CD1	2.66	0.72
1:LD:57:LYS:HZ1	1:KK:61:THR:CG2	2.02	0.72
1:LD:128:LYS:HE2	1:YG:368:GLU:O	1.89	0.72
5:FF:51:ARG:HD3	4:BO:32:PHE:HE1	1.54	0.72
2:HG:2:TYR:HB2	2:XQ:55:GLY:CA	2.19	0.72
5:FI:51:ARG:HD3	4:BN:32:PHE:HE1	1.54	0.72
1:AJ:54:LEU:CB	3:AN:152:SER:H	2.02	0.72
1:KJ:149:THR:HG23	2:MP:15:TYR:CB	2.17	0.72
1:LK:372:VAL:CG1	2:FP:10:MET:HB2	2.19	0.72
1:CL:120:LEU:O	1:YR:37:ASP:OD1	2.07	0.72
1:RL:97:ILE:HD12	1:QR:304:GLN:CD	2.14	0.72
1:C1:120:LEU:O	1:Y8:37:ASP:OD1	2.07	0.72
1:K1:47:GLU:HB3	1:Y6:20:SER:CB	2.14	0.72
2:P1:2:TYR:HB2	2:X6:55:GLY:CA	2.19	0.72
1:R1:119:LYS:HD2	1:CJ:36:GLY:C	2.13	0.72
1:R1:223:GLY:N	1:CJ:53:TYR:CE1	2.56	0.72
1:g1:207:ASN:ND2	1:CQ:244:ASP:OD2	2.22	0.72
1:J3:207:ASN:ND2	1:Q8:244:ASP:OD2	2.22	0.72
2:X3:55:GLY:CA	2:f7:2:TYR:HB2	2.18	0.72
2:W4:11:MET:HG3	1:DD:133:LEU:HB2	1.69	0.72
2:W4:11:MET:CE	1:DD:372:VAL:CG2	2.65	0.72
1:X4:139:ARG:HD3	1:CR:81:PHE:CD2	2.21	0.72
1:f4:14:VAL:CG2	1:B6:14:VAL:HG21	2.19	0.72
2:l4:6:ASN:H	1:DK:153:LEU:HD13	1.54	0.72
4:B5:136:SER:OG	4:BN:203:ASN:OD1	2.06	0.72
1:Q6:14:VAL:CB	1:CJ:45:MET:HE2	2.02	0.72
1:Q6:27:HIS:HB2	1:LJ:312:PRO:HG3	1.71	0.72
1:Q6:140:PHE:CE2	1:LJ:123:ASN:ND2	2.58	0.72
1:C7:368:GLU:O	1:LK:128:LYS:HE2	1.89	0.72
1:J7:207:ASN:ND2	1:bQ:244:ASP:OD2	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K7:14:VAL:HG21	1:CQ:14:VAL:CG2	2.19	0.72
1:Q7:14:VAL:CG2	1:aL:14:VAL:HG21	2.19	0.72
1:Q7:120:LEU:O	1:QR:37:ASP:OD1	2.07	0.72
1:Q7:139:ARG:HD3	1:YL:81:PHE:CD2	2.21	0.72
1:Z7:207:ASN:ND2	1:IR:244:ASP:OD2	2.22	0.72
1:g8:140:PHE:HB3	1:KS:84:GLN:OE1	1.89	0.72
1:g8:368:GLU:O	1:KS:128:LYS:HE2	1.89	0.72
3:A9:6:ARG:NH2	5:DC:52:LEU:CA	2.45	0.72
4:BA:30:LEU:H	5:EH:64:TRP:HE1	1.36	0.72
1:BD:98:ASN:HD21	1:KS:29:TYR:C	1.97	0.72
1:BD:99:MET:O	1:KS:25:PHE:HB3	1.86	0.72
2:FD:10:MET:HB2	1:KS:372:VAL:HG11	1.71	0.72
1:KD:51:ASN:HD22	1:IS:116:MET:CG	1.99	0.72
1:KD:61:THR:HG21	1:KS:57:LYS:CE	2.17	0.72
1:LD:45:MET:CA	1:KK:14:VAL:CG2	2.63	0.72
1:BE:223:GLY:N	1:CP:53:TYR:CE1	2.56	0.72
1:CG:304:GLN:CD	1:ZL:97:ILE:HD12	2.14	0.72
1:AG:202:PHE:HD2	1:YL:248:SER:HG	1.34	0.72
1:gG:244:ASP:OD2	1:AL:207:ASN:ND2	2.22	0.72
3:AH:110:GLU:O	2:MP:19:ARG:NH2	2.22	0.72
4:BI:32:PHE:HE1	5:FM:51:ARG:HD3	1.54	0.72
1:AJ:305:SER:HB2	1:JS:28:ASP:OD2	1.88	0.72
1:KJ:357:LYS:CE	3:AN:67:ASN:ND2	2.53	0.72
1:AK:82:ILE:CD1	1:KP:144:THR:O	2.35	0.72
1:CK:133:LEU:CB	2:kR:11:MET:HG2	2.18	0.72
1:DK:261:ILE:CD1	1:DK:265:ASP:OD1	2.37	0.72
1:LK:45:MET:CA	1:KP:14:VAL:CG2	2.63	0.72
1:IL:304:GLN:CD	1:ZR:97:ILE:HD12	2.14	0.72
1:QR:208:LEU:CD1	1:QR:391:ILE:HD11	2.15	0.72
1:B1:14:VAL:HG21	1:Y8:14:VAL:CG2	2.19	0.72
1:I1:37:ASP:OD1	1:SE:120:LEU:O	2.07	0.72
1:J1:207:ASN:ND2	1:IG:244:ASP:OD2	2.22	0.72
1:R1:97:ILE:HD12	1:Q6:304:GLN:CD	2.14	0.72
1:R1:207:ASN:ND2	1:Q6:244:ASP:OD2	2.22	0.72
1:R1:316:VAL:CG2	1:CJ:31:LYS:NZ	2.52	0.72
1:X1:81:PHE:CD2	1:IR:139:ARG:HD3	2.21	0.72
2:m1:2:TYR:HB2	2:H7:55:GLY:CA	2.19	0.72
5:N2:228:ARG:HH22	5:CB:264:GLY:HA2	1.55	0.72
1:C3:364:PHE:HZ	1:A4:108:MET:CE	1.90	0.72
1:I3:244:ASP:OD2	1:R8:207:ASN:ND2	2.22	0.72
1:C4:14:VAL:CG2	1:BG:14:VAL:HG21	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J4:97:ILE:HD12	1:C8:304:GLN:CD	2.14	0.72
1:g4:174:MET:HG3	1:CD:33:TRP:CG	2.24	0.72
1:i4:19:LYS:HB3	1:BD:45:MET:HG3	1.70	0.72
4:B5:32:PHE:CD1	5:FO:55:LEU:HD12	2.24	0.72
5:N5:231:ASN:CB	5:CN:265:LEU:CG	2.61	0.72
1:C6:139:ARG:HD3	1:gG:81:PHE:CD2	2.21	0.72
1:K6:14:VAL:HG21	1:CL:14:VAL:CG2	2.19	0.72
1:Q6:29:TYR:O	1:LJ:312:PRO:HD2	1.89	0.72
1:Z6:207:ASN:ND2	1:KE:244:ASP:OD2	2.22	0.72
1:g6:208:LEU:CD1	1:g6:391:ILE:HD11	2.15	0.72
1:i6:44:THR:HB	1:DJ:16:LYS:NZ	2.04	0.72
1:C7:29:TYR:O	1:LK:312:PRO:HD2	1.89	0.72
1:S7:47:GLU:HB3	1:QR:20:SER:CB	2.14	0.72
1:B8:255:ILE:HG23	1:B8:261:ILE:CD1	2.15	0.72
2:H8:2:TYR:HB2	2:XR:55:GLY:CA	2.19	0.72
2:f8:55:GLY:CA	2:hE:2:TYR:HB2	2.19	0.72
1:g8:20:SER:C	1:BS:47:GLU:HG2	2.13	0.72
1:h8:108:MET:CE	1:IQ:364:PHE:HZ	1.90	0.72
5:E9:36:ALA:CB	3:AB:194:ASN:HD21	2.01	0.72
5:F9:55:LEU:HD12	4:BB:32:PHE:CD1	2.24	0.72
3:AB:111:ASP:O	2:MD:23:ARG:NH1	2.23	0.72
3:AB:116:VAL:HG13	2:MD:19:ARG:HG2	1.69	0.72
1:AD:140:PHE:N	3:AF:29:ARG:NE	2.17	0.72
1:LD:47:GLU:OE1	1:KK:22:LEU:CA	2.27	0.72
1:BE:382:LYS:HG2	1:CP:32:SER:O	1.89	0.72
2:JE:4:GLY:CA	1:DJ:153:LEU:HD21	2.20	0.72
1:KE:208:LEU:CD1	1:KE:391:ILE:HD11	2.15	0.72
2:RE:2:TYR:HB2	2:PQ:55:GLY:CA	2.19	0.72
3:AI:304:ASP:OD2	3:AO:279:ASN:ND2	2.21	0.72
1:LJ:372:VAL:CG1	2:ES:10:MET:HB2	2.19	0.72
1:LJ:372:VAL:HG11	2:ES:10:MET:HB2	1.71	0.72
1:CK:33:TRP:CG	1:hR:174:MET:HG3	2.24	0.72
1:BL:14:VAL:HG21	1:YR:14:VAL:CG2	2.19	0.72
1:JL:207:ASN:ND2	1:YR:244:ASP:OD2	2.22	0.72
1:QL:244:ASP:OD2	1:RR:207:ASN:ND2	2.22	0.72
1:RL:207:ASN:ND2	1:QR:244:ASP:OD2	2.22	0.72
3:AN:202:ASN:HD21	5:DO:38:TYR:CB	1.99	0.72
1:IS:59:ASN:CG	1:IS:143:GLN:HB2	2.15	0.72
1:I1:304:GLN:CD	1:JG:97:ILE:HD12	2.14	0.72
1:f1:244:ASP:OD2	1:AQ:207:ASN:ND2	2.22	0.72
1:C3:304:GLN:CD	1:h7:97:ILE:HD12	2.14	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H3:55:GLY:CA	2:n6:2:TYR:HB2	2.19	0.72
1:R3:97:ILE:HD12	1:I8:304:GLN:CD	2.14	0.72
2:a3:3:GLU:O	1:BK:153:LEU:HD21	1.90	0.72
2:e4:55:GLY:CA	2:H6:2:TYR:HB2	2.18	0.72
4:B5:203:ASN:OD1	4:BI:136:SER:OG	2.06	0.72
1:C6:37:ASP:OD1	1:gG:120:LEU:O	2.07	0.72
1:Q6:208:LEU:CD1	1:Q6:391:ILE:HD11	2.15	0.72
1:S6:38:LYS:HE3	1:AS:221:ALA:O	1.88	0.72
1:A7:97:ILE:HD12	1:gR:304:GLN:CD	2.14	0.72
1:I7:14:VAL:CG2	1:iR:14:VAL:HG21	2.19	0.72
2:X7:2:TYR:HB2	2:PR:55:GLY:CA	2.18	0.72
1:Y7:14:VAL:CG2	1:SQ:14:VAL:HG21	2.19	0.72
1:Y7:81:PHE:CD2	1:KE:139:ARG:HD3	2.21	0.72
1:Y7:244:ASP:OD2	1:JR:207:ASN:ND2	2.22	0.72
1:g7:120:LEU:O	1:C8:37:ASP:OD1	2.07	0.72
1:i8:46:PHE:HZ	1:DD:39:TRP:CH2	2.06	0.72
3:A9:194:ASN:HD21	5:EC:36:ALA:CB	2.01	0.72
5:CA:264:GLY:HA2	5:NC:228:ARG:HH22	1.55	0.72
3:AB:112:ILE:O	2:MD:23:ARG:NH2	2.22	0.72
2:FD:2:TYR:HB3	1:KS:150:ASN:ND2	2.03	0.72
1:KD:153:LEU:CD1	2:LS:2:TYR:CD2	2.55	0.72
2:GE:11:MET:CG	1:BP:133:LEU:HB3	2.16	0.72
1:BE:119:LYS:HD2	1:CP:36:GLY:C	2.14	0.72
1:BE:223:GLY:HA3	1:CP:53:TYR:CZ	2.23	0.72
1:FE:367:PRO:HD2	1:LP:108:MET:HE3	1.69	0.72
1:YG:208:LEU:CD1	1:YG:391:ILE:HD11	2.15	0.72
4:BH:193:VAL:N	4:BN:146:ALA:O	2.18	0.72
1:LJ:22:LEU:HD23	1:JS:47:GLU:OE1	1.85	0.72
1:LJ:150:ASN:ND2	2:ES:2:TYR:HB3	2.03	0.72
1:LK:108:MET:HE3	1:jR:367:PRO:HD2	1.69	0.72
3:AM:150:TYR:N	3:AO:37:GLU:OE2	2.20	0.72
3:AM:279:ASN:ND2	3:AO:304:ASP:OD2	2.21	0.72
5:ON:194:LYS:HB3	5:ON:195:PRO:HD3	1.72	0.72
3:AO:32:PHE:CZ	1:IS:139:ARG:CB	2.42	0.72
1:DP:261:ILE:CD1	1:DP:265:ASP:OD1	2.37	0.72
2:H1:2:TYR:HB2	2:fG:55:GLY:CA	2.18	0.72
1:Q1:244:ASP:OD2	1:R6:207:ASN:ND2	2.22	0.72
1:T1:32:SER:HA	1:CJ:125:ILE:HD12	1.71	0.72
1:S3:14:VAL:HG21	1:CR:14:VAL:CG2	2.19	0.72
2:U3:37:SER:C	2:U3:38:GLU:OE2	2.33	0.72
1:R4:223:GLY:HA3	1:BS:53:TYR:CZ	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:244:ASP:OD2	1:Z8:207:ASN:ND2	2.22	0.72
5:D5:52:LEU:CA	3:AH:6:ARG:NH2	2.45	0.72
1:Q6:368:GLU:O	1:LJ:128:LYS:HE2	1.89	0.72
1:g6:58:ILE:HB	1:CP:55:PHE:HE2	1.48	0.72
1:g6:244:ASP:OD2	1:BE:207:ASN:ND2	2.22	0.72
1:C7:20:SER:C	1:CK:47:GLU:CG	2.62	0.72
1:R7:207:ASN:ND2	1:QQ:244:ASP:OD2	2.22	0.72
1:Y7:120:LEU:O	1:KE:37:ASP:OD1	2.07	0.72
1:Y7:304:GLN:CD	1:JR:97:ILE:HD12	2.14	0.72
1:g8:20:SER:C	1:BS:47:GLU:CG	2.62	0.72
4:B9:32:PHE:CD1	5:FC:55:LEU:HD12	2.24	0.72
3:AA:6:ARG:NH2	5:DH:52:LEU:CA	2.45	0.72
5:EB:36:ALA:HB1	3:AM:194:ASN:ND2	2.05	0.72
2:FD:10:MET:HB2	1:KS:372:VAL:CG1	2.19	0.72
1:KD:61:THR:CG2	1:KS:57:LYS:NZ	2.53	0.72
1:LD:38:LYS:HG3	1:DK:119:LYS:HZ3	1.47	0.72
1:LD:57:LYS:CD	1:KK:143:GLN:OE1	2.30	0.72
1:LD:58:ILE:CG2	1:KK:55:PHE:HE2	1.75	0.72
1:LD:368:GLU:N	1:DK:375:TRP:CD2	2.53	0.72
1:TE:97:ILE:HD12	1:IQ:304:GLN:CD	2.14	0.72
1:gG:304:GLN:CD	1:AL:97:ILE:HD12	2.14	0.72
5:EH:140:ASP:HB3	5:CH:139:LYS:CD	2.14	0.72
5:EI:36:ALA:HB1	3:AN:194:ASN:ND2	2.05	0.72
5:EI:36:ALA:CB	3:AN:194:ASN:HD21	2.01	0.72
1:LJ:367:PRO:HG2	1:CS:375:TRP:HE3	1.47	0.72
1:AK:304:GLN:NE2	1:KP:28:ASP:HA	2.04	0.72
1:AK:361:LYS:HB2	1:KP:365:HIS:NE2	2.05	0.72
1:IL:244:ASP:OD2	1:ZR:207:ASN:ND2	2.22	0.72
1:JL:97:ILE:HD12	1:YR:304:GLN:CD	2.14	0.72
1:YL:14:VAL:CG2	1:SR:14:VAL:HG21	2.19	0.72
5:DM:30:PRO:HG3	1:IS:140:PHE:HD2	1.55	0.72
3:AN:104:GLN:NE2	2:MP:8:ARG:C	2.47	0.72
5:NN:194:LYS:HB3	5:NN:195:PRO:HD3	1.72	0.72
1:C1:37:ASP:OD1	1:bQ:120:LEU:O	2.07	0.72
1:R1:178:TYR:HB2	1:CJ:35:PHE:CZ	2.25	0.72
2:W1:11:MET:HG3	1:CS:133:LEU:HB2	1.69	0.72
1:X1:304:GLN:CD	1:J6:97:ILE:HD12	2.14	0.72
1:Y1:97:ILE:HD12	1:I6:304:GLN:CD	2.14	0.72
2:e1:55:GLY:CA	2:PL:2:TYR:HB2	2.19	0.72
1:f1:14:VAL:CG2	1:B3:14:VAL:HG21	2.19	0.72
1:g1:210:ASN:ND2	1:CQ:71:ARG:NH2	2.29	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q3:244:ASP:OD2	1:J8:207:ASN:ND2	2.22	0.72
1:T4:145:LEU:N	1:BS:82:ILE:CD1	2.50	0.72
1:Y4:97:ILE:HD12	1:Y8:304:GLN:CD	2.14	0.72
1:f4:304:GLN:CD	1:ZG:97:ILE:HD12	2.14	0.72
1:g4:207:ASN:ND2	1:YG:244:ASP:OD2	2.22	0.72
3:A5:112:ILE:CG2	2:MJ:27:ASN:ND2	0.57	0.72
5:F5:55:LEU:HD12	4:BH:32:PHE:CD1	2.24	0.72
1:Q6:140:PHE:HB3	1:LJ:84:GLN:OE1	1.89	0.72
2:f6:2:TYR:HB2	2:X7:55:GLY:CA	2.19	0.72
1:C7:304:GLN:CD	1:hR:97:ILE:HD12	2.14	0.72
1:Q7:280:PHE:HE2	1:Q7:320:ASP:HA	1.51	0.72
1:T7:325:LYS:HB2	1:T7:325:LYS:HZ2	1.54	0.72
1:B8:47:GLU:HB3	1:AE:20:SER:CB	2.14	0.72
3:A9:32:PHE:CZ	1:AK:139:ARG:NH1	2.58	0.72
5:F9:51:ARG:HD3	4:BB:32:PHE:HE1	1.54	0.72
5:CA:194:LYS:HB3	5:CA:195:PRO:HD3	1.72	0.72
3:AB:155:GLU:N	1:AD:135:ASN:ND2	2.38	0.72
4:BC:32:PHE:CD1	5:FN:55:LEU:HD12	2.24	0.72
1:KD:61:THR:CG2	1:KS:57:LYS:HE3	2.05	0.72
1:LD:149:THR:CG2	2:FK:16:GLU:HB3	2.20	0.72
2:JE:6:ASN:H	1:DJ:153:LEU:HD13	1.54	0.72
5:FF:55:LEU:HD12	4:BO:32:PHE:CD1	2.24	0.72
1:IG:280:PHE:HE2	1:IG:320:ASP:HA	1.51	0.72
3:AH:155:GLU:OE1	1:AP:370:ASP:OD1	2.03	0.72
1:AJ:59:ASN:CG	1:AJ:143:GLN:HB2	2.15	0.72
1:KJ:61:THR:CG2	1:LP:57:LYS:HZ1	2.02	0.72
1:CK:82:ILE:CD1	1:jR:145:LEU:N	2.50	0.72
2:NK:1:MET:HE1	2:mR:54:THR:CG2	2.20	0.72
1:JL:210:ASN:ND2	1:YR:71:ARG:NH2	2.29	0.72
3:AN:106:ARG:HA	2:MP:7:MET:HE3	1.70	0.72
2:EQ:37:SER:C	2:EQ:38:GLU:OE2	2.33	0.72
1:QR:208:LEU:HD11	1:QR:391:ILE:HD13	1.46	0.72
2:cR:37:SER:C	2:cR:38:GLU:OE2	2.33	0.72
1:X1:207:ASN:ND2	1:Z1:244:ASP:OD2	2.23	0.72
1:g1:97:ILE:HD12	1:CQ:304:GLN:CD	2.14	0.72
4:B2:201:ASN:OD1	4:B9:138:THR:OG1	2.08	0.72
1:Q3:118:THR:CB	1:CR:53:TYR:O	2.38	0.72
1:C4:364:PHE:HZ	1:ZL:108:MET:CE	1.90	0.72
1:R4:174:MET:HG3	1:BS:33:TRP:CG	2.24	0.72
2:c6:37:SER:C	2:c6:38:GLU:OE2	2.33	0.72
1:g6:20:SER:C	1:CP:47:GLU:CG	2.62	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:32:SER:O	1:LK:382:LYS:CG	2.37	0.72
1:I7:37:ASP:OD1	1:gR:120:LEU:O	2.07	0.72
2:M7:37:SER:C	2:M7:38:GLU:OE2	2.33	0.72
1:Q7:118:THR:CB	1:QR:53:TYR:O	2.38	0.72
2:U7:37:SER:C	2:U7:38:GLU:OE2	2.33	0.72
1:g8:45:MET:HB2	1:BS:19:LYS:HG2	0.74	0.72
1:AD:361:LYS:HB2	1:KK:365:HIS:NE2	2.05	0.72
1:CD:47:GLU:HB3	1:YG:20:SER:HB2	1.69	0.72
2:GE:2:TYR:HE2	1:BP:157:LYS:HZ2	1.15	0.72
1:BE:375:TRP:CE3	1:CP:367:PRO:CG	2.72	0.72
1:TE:108:MET:CE	1:IL:364:PHE:HZ	1.90	0.72
1:TE:207:ASN:ND2	1:IQ:244:ASP:OD2	2.22	0.72
5:DF:38:TYR:CA	3:AI:202:ASN:ND2	2.53	0.72
2:FJ:10:MET:CE	1:LP:365:HIS:CD2	2.57	0.72
2:FJ:16:GLU:HB3	1:LP:149:THR:CG2	2.20	0.72
1:KJ:138:THR:HG22	1:LP:50:VAL:HG21	1.72	0.72
1:LJ:255:ILE:HG22	1:LJ:265:ASP:OD1	1.90	0.72
2:MJ:11:MET:HG3	1:JS:133:LEU:HD22	1.71	0.72
1:CK:35:PHE:CZ	1:hR:178:TYR:HB2	2.25	0.72
2:EL:37:SER:C	2:EL:38:GLU:OE2	2.33	0.72
3:AO:151:ASN:HB2	1:IS:58:ILE:CD1	2.14	0.72
1:LP:255:ILE:HG22	1:LP:265:ASP:OD1	1.90	0.72
2:MR:37:SER:C	2:MR:38:GLU:OE2	2.33	0.72
1:I1:244:ASP:OD2	1:JG:207:ASN:ND2	2.22	0.72
1:R1:223:GLY:HA3	1:CJ:53:TYR:CZ	2.23	0.72
1:C3:244:ASP:OD2	1:h7:207:ASN:ND2	2.22	0.72
1:C4:53:TYR:O	1:CG:118:THR:CB	2.38	0.72
1:I4:280:PHE:HE2	1:I4:320:ASP:HA	1.51	0.72
1:J4:207:ASN:ND2	1:C8:244:ASP:OD2	2.22	0.72
1:Q4:53:TYR:HD1	1:IL:222:SER:HG	1.36	0.72
1:T4:140:PHE:O	1:BS:84:GLN:HB2	1.90	0.72
1:X4:208:LEU:CD1	1:X4:391:ILE:HD11	2.15	0.72
1:g4:375:TRP:CE3	1:CD:367:PRO:CG	2.72	0.72
1:h4:106:GLU:N	1:LD:109:LEU:HD21	1.98	0.72
3:A5:194:ASN:HD21	5:EO:36:ALA:CB	2.02	0.72
5:E5:36:ALA:CB	3:AH:194:ASN:HD21	2.02	0.72
1:Q6:31:LYS:CG	1:LJ:314:GLY:HA2	2.19	0.72
1:Q6:47:GLU:H	1:CJ:19:LYS:NZ	1.86	0.72
1:Y6:304:GLN:CD	1:LE:97:ILE:HD12	2.14	0.72
1:g6:310:THR:HG21	1:DJ:27:HIS:HE1	1.51	0.72
1:g6:368:GLU:O	1:LP:128:LYS:HE2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i6:50:VAL:HG23	1:DJ:137:ASP:CG	2.11	0.72
1:C7:14:VAL:CG1	1:CK:45:MET:CE	2.62	0.72
1:C7:207:ASN:ND2	1:B7:244:ASP:OD2	2.23	0.72
1:J7:97:ILE:HD12	1:bQ:304:GLN:CD	2.14	0.72
1:Q7:207:ASN:ND2	1:S7:244:ASP:OD2	2.23	0.72
1:g7:207:ASN:ND2	1:i7:244:ASP:OD2	2.23	0.72
2:E8:37:SER:C	2:E8:38:GLU:OE2	2.33	0.72
1:g8:207:ASN:ND2	1:i8:244:ASP:OD2	2.23	0.72
5:E9:36:ALA:HB1	3:AB:194:ASN:ND2	2.05	0.72
3:AA:194:ASN:ND2	5:EH:36:ALA:HB1	2.05	0.72
5:NB:228:ARG:HH22	5:CF:264:GLY:HA2	1.55	0.72
3:AC:194:ASN:ND2	5:EN:36:ALA:HB1	2.05	0.72
1:AD:59:ASN:CG	1:AD:143:GLN:HB2	2.14	0.72
1:KD:28:ASP:CG	1:IS:305:SER:HB3	2.14	0.72
1:KD:51:ASN:HD22	1:IS:116:MET:HG3	1.55	0.72
1:LD:314:GLY:HA2	1:YG:31:LYS:CG	2.19	0.72
1:LD:314:GLY:O	1:YG:31:LYS:CG	2.35	0.72
1:LD:372:VAL:CG1	2:FK:10:MET:HB2	2.19	0.72
1:FE:19:LYS:HB3	1:BP:45:MET:HG3	1.70	0.72
2:RE:55:GLY:CA	2:PG:2:TYR:HB2	2.19	0.72
1:SE:207:ASN:ND2	1:UE:244:ASP:OD2	2.23	0.72
5:NF:228:ARG:HH22	5:CM:264:GLY:HA2	1.55	0.72
2:EG:37:SER:C	2:EG:38:GLU:OE2	2.33	0.72
5:CH:264:GLY:HA2	5:NN:228:ARG:HH22	1.55	0.72
4:BI:32:PHE:CD1	5:FM:55:LEU:HD12	2.24	0.72
1:DJ:302:ASP:CB	1:LP:29:TYR:CZ	2.70	0.72
1:KJ:47:GLU:OE1	1:LP:22:LEU:HD23	1.85	0.72
1:KJ:49:PHE:CB	1:LP:22:LEU:CD1	2.62	0.72
1:KJ:76:ALA:HB3	3:AN:114:PHE:CD1	2.25	0.72
1:LJ:50:VAL:HG21	1:JS:138:THR:HG22	1.72	0.72
1:LK:57:LYS:NZ	1:KP:61:THR:CG2	2.53	0.72
2:MK:15:TYR:CD1	1:KP:148:ALA:HB1	2.24	0.72
1:IL:14:VAL:CG2	1:KQ:14:VAL:HG21	2.19	0.72
2:hL:37:SER:C	2:hL:38:GLU:OE2	2.33	0.72
5:NM:194:LYS:HB3	5:NM:195:PRO:HD3	1.72	0.72
1:IQ:207:ASN:ND2	1:KQ:244:ASP:OD2	2.23	0.72
1:QQ:207:ASN:ND2	1:SQ:244:ASP:OD2	2.23	0.72
2:ZQ:37:SER:C	2:ZQ:38:GLU:OE2	2.33	0.72
2:M1:37:SER:C	2:M1:38:GLU:OE2	2.33	0.72
1:X1:118:THR:CB	1:IR:53:TYR:O	2.38	0.72
1:f1:37:ASP:OD1	1:C3:120:LEU:O	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h1:14:VAL:HG21	1:QG:14:VAL:CG2	2.19	0.72
3:A2:114:PHE:CD1	2:GK:25:GLU:CB	2.72	0.72
3:A2:194:ASN:ND2	5:EA:36:ALA:CB	2.53	0.72
1:C3:207:ASN:ND2	1:B3:244:ASP:OD2	2.23	0.72
2:E3:37:SER:C	2:E3:38:GLU:OE2	2.33	0.72
1:C4:207:ASN:ND2	1:B4:244:ASP:OD2	2.23	0.72
1:C4:304:GLN:CD	1:RG:97:ILE:HD12	2.14	0.72
1:B4:14:VAL:HG21	1:aE:14:VAL:CG2	2.19	0.72
1:I4:207:ASN:ND2	1:K4:244:ASP:OD2	2.23	0.72
2:P4:2:TYR:HB2	2:n6:55:GLY:CA	2.19	0.72
2:W4:6:ASN:H	1:DD:153:LEU:HD13	1.54	0.72
1:g4:310:THR:HG23	1:CD:27:HIS:CE1	2.25	0.72
1:i4:367:PRO:HD2	1:LD:108:MET:HE3	1.69	0.72
3:A5:194:ASN:ND2	5:EO:36:ALA:HB1	2.05	0.72
1:I6:120:LEU:O	1:CL:37:ASP:OD1	2.07	0.72
1:Y6:244:ASP:OD2	1:LE:207:ASN:ND2	2.22	0.72
1:a6:14:VAL:HG21	1:SE:14:VAL:CG2	2.19	0.72
1:g6:13:LEU:C	1:CP:45:MET:HE3	2.10	0.72
1:h6:97:ILE:HD12	1:AE:304:GLN:CD	2.14	0.72
2:k6:37:SER:C	2:k6:38:GLU:OE2	2.33	0.72
1:I7:248:SER:HG	1:cQ:202:PHE:HD2	1.38	0.72
3:A9:194:ASN:ND2	5:EC:36:ALA:CB	2.53	0.72
3:A9:202:ASN:ND2	5:DH:38:TYR:CA	2.53	0.72
5:C9:264:GLY:HA2	5:NA:228:ARG:HH22	1.55	0.72
3:AA:112:ILE:CA	2:MK:13:THR:OG1	2.37	0.72
3:AA:202:ASN:ND2	5:DN:38:TYR:CA	2.53	0.72
4:BA:32:PHE:CD1	5:FH:55:LEU:HD12	2.24	0.72
4:BA:32:PHE:HE1	5:FH:51:ARG:HD3	1.54	0.72
4:BB:138:THR:OG1	4:BF:201:ASN:OD1	2.08	0.72
4:BC:201:ASN:OD1	4:BH:138:THR:OG1	2.08	0.72
1:AD:304:GLN:NE2	1:KK:28:ASP:HA	2.04	0.72
1:AD:304:GLN:NE2	1:KK:28:ASP:CA	2.41	0.72
1:KD:49:PHE:CB	1:KS:22:LEU:CD1	2.62	0.72
1:LD:84:GLN:OE1	1:YG:140:PHE:HB3	1.89	0.72
1:BE:316:VAL:HG23	1:CP:31:LYS:HE2	1.69	0.72
5:CF:194:LYS:HB3	5:CF:195:PRO:HD3	1.72	0.72
1:gG:207:ASN:ND2	1:iG:244:ASP:OD2	2.23	0.72
4:BH:201:ASN:OD1	4:BN:138:THR:OG1	2.08	0.72
2:FJ:10:MET:HB2	1:LP:372:VAL:HG11	1.71	0.72
1:LK:149:THR:CG2	2:FP:16:GLU:HB3	2.20	0.72
1:IL:207:ASN:ND2	1:KL:244:ASP:OD2	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:NM:228:ARG:HH22	5:CO:264:GLY:HA2	1.55	0.72
1:CP:265:ASP:OD2	2:EP:41:TYR:CE1	2.40	0.72
1:CQ:120:LEU:O	1:gR:37:ASP:OD1	2.07	0.72
2:MQ:37:SER:C	2:MQ:38:GLU:OE2	2.33	0.72
1:J1:97:ILE:HD12	1:IG:304:GLN:CD	2.14	0.71
1:f1:207:ASN:ND2	1:h1:244:ASP:OD2	2.23	0.71
4:B2:32:PHE:CD1	5:FA:55:LEU:HD12	2.24	0.71
5:D2:38:TYR:CA	3:AM:202:ASN:ND2	2.53	0.71
1:J3:108:MET:CE	1:IG:364:PHE:HZ	1.90	0.71
1:J3:108:MET:HA	1:IG:368:GLU:HG3	1.73	0.71
1:R3:207:ASN:ND2	1:I8:244:ASP:OD2	2.22	0.71
2:a3:2:TYR:HE2	1:BK:157:LYS:CE	2.03	0.71
1:I4:368:GLU:HG3	1:R8:108:MET:HA	1.73	0.71
2:M4:37:SER:C	2:M4:38:GLU:OE2	2.33	0.71
1:Q4:14:VAL:CG2	1:KL:14:VAL:HG21	2.19	0.71
1:Q4:207:ASN:ND2	1:S4:244:ASP:OD2	2.23	0.71
1:R4:97:ILE:HD12	1:g8:304:GLN:CD	2.14	0.71
1:R4:109:LEU:CD1	1:IS:106:GLU:HA	2.11	0.71
1:X4:14:VAL:CG2	1:BR:14:VAL:HG21	2.19	0.71
1:X4:37:ASP:OD1	1:CR:120:LEU:O	2.07	0.71
1:g4:178:TYR:HD1	1:CD:35:PHE:CE2	2.08	0.71
1:Q6:29:TYR:CE2	1:LJ:317:PHE:CE1	2.77	0.71
1:S6:133:LEU:O	2:DS:11:MET:SD	2.40	0.71
1:h6:207:ASN:ND2	1:AE:244:ASP:OD2	2.22	0.71
1:I7:207:ASN:ND2	1:K7:244:ASP:OD2	2.23	0.71
1:g7:14:VAL:CG2	1:CE:14:VAL:HG21	2.19	0.71
1:Q8:207:ASN:ND2	1:S8:244:ASP:OD2	2.23	0.71
1:g8:27:HIS:HB2	1:KS:312:PRO:HG3	1.71	0.71
1:i8:38:LYS:HE3	1:BD:221:ALA:O	1.88	0.71
1:i8:136:ASN:HA	1:BD:81:PHE:HZ	1.56	0.71
3:A9:194:ASN:ND2	5:EC:36:ALA:HB1	2.05	0.71
3:A9:208:LYS:HE2	4:BC:251:TRP:CG	2.25	0.71
4:B9:32:PHE:HE1	5:FC:51:ARG:HD3	1.54	0.71
3:AA:10:VAL:HG22	5:DH:44:SER:CB	2.20	0.71
3:AA:194:ASN:HD21	5:EH:36:ALA:CB	2.01	0.71
5:DA:38:TYR:CA	3:AB:202:ASN:ND2	2.53	0.71
3:AB:151:ASN:N	1:AD:145:LEU:HD11	1.99	0.71
4:BB:147:THR:HA	4:BF:192:THR:HA	1.72	0.71
5:DB:38:TYR:CA	3:AO:202:ASN:ND2	2.53	0.71
5:NB:231:ASN:CB	5:CF:265:LEU:CG	2.61	0.71
1:DD:261:ILE:CD1	1:DD:265:ASP:OD1	2.37	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:375:TRP:CD2	1:KS:368:GLU:N	2.53	0.71
1:KD:149:THR:HG23	2:LS:15:TYR:CB	2.17	0.71
1:KD:368:GLU:CA	1:IS:375:TRP:CD1	2.68	0.71
1:LD:312:PRO:HD2	1:YG:29:TYR:O	1.89	0.71
1:LD:317:PHE:CE1	1:YG:29:TYR:CE2	2.78	0.71
2:MD:11:MET:HG3	1:KK:133:LEU:HD22	1.71	0.71
1:BE:98:ASN:CB	1:DJ:28:ASP:O	2.38	0.71
1:BE:178:TYR:HD1	1:CP:35:PHE:CE2	2.08	0.71
1:BE:310:THR:HG23	1:CP:27:HIS:CE1	2.25	0.71
2:OE:37:SER:C	2:OE:38:GLU:OE2	2.33	0.71
1:IG:207:ASN:ND2	1:KG:244:ASP:OD2	2.23	0.71
2:MG:37:SER:C	2:MG:38:GLU:OE2	2.33	0.71
2:kG:37:SER:C	2:kG:38:GLU:OE2	2.33	0.71
4:BH:192:THR:HA	4:BN:147:THR:HA	1.72	0.71
5:DI:44:SER:CB	3:AN:10:VAL:HG22	2.21	0.71
5:FI:55:LEU:HD12	4:BN:32:PHE:CD1	2.24	0.71
1:AJ:305:SER:HB3	1:JS:28:ASP:CG	2.14	0.71
1:CK:27:HIS:CE1	1:hR:310:THR:HG23	2.25	0.71
1:LK:139:ARG:CB	1:DP:81:PHE:HE2	1.93	0.71
1:CL:207:ASN:ND2	1:BL:244:ASP:OD2	2.23	0.71
1:IL:37:ASP:OD1	1:IQ:120:LEU:O	2.07	0.71
1:QL:208:LEU:CD1	1:QL:391:ILE:HD11	2.15	0.71
2:XL:55:GLY:CA	2:XQ:2:TYR:HB2	2.19	0.71
3:AM:116:VAL:HG13	2:LS:7:MET:SD	2.29	0.71
5:OM:194:LYS:HB3	5:OM:195:PRO:HD3	1.72	0.71
5:CN:194:LYS:HB3	5:CN:195:PRO:HD3	1.72	0.71
1:bQ:207:ASN:ND2	1:dQ:244:ASP:OD2	2.23	0.71
1:Q1:120:LEU:O	1:Q8:37:ASP:OD1	2.07	0.71
1:R1:382:LYS:HG2	1:CJ:32:SER:O	1.89	0.71
1:f1:81:PHE:CD2	1:QG:139:ARG:HD3	2.21	0.71
1:f1:364:PHE:HZ	1:h7:108:MET:CE	1.90	0.71
5:D2:52:LEU:CA	3:AF:6:ARG:HH22	1.97	0.71
1:I3:37:ASP:OD1	1:QL:120:LEU:O	2.07	0.71
1:I3:207:ASN:ND2	1:K3:244:ASP:OD2	2.23	0.71
1:Q3:207:ASN:ND2	1:S3:244:ASP:OD2	2.23	0.71
1:A4:207:ASN:ND2	1:QG:244:ASP:OD2	2.22	0.71
1:I4:304:GLN:CD	1:A8:97:ILE:HD12	2.14	0.71
1:R4:178:TYR:HB2	1:BS:35:PHE:CZ	2.25	0.71
1:R4:382:LYS:HG2	1:BS:32:SER:O	1.89	0.71
1:T4:51:ASN:CG	1:BS:116:MET:CE	2.63	0.71
1:g4:98:ASN:CB	1:DK:28:ASP:O	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l4:4:GLY:CA	1:DK:153:LEU:HD21	2.20	0.71
4:B5:192:THR:HA	4:BI:147:THR:HA	1.72	0.71
4:B5:201:ASN:OD1	4:BI:138:THR:OG1	2.08	0.71
4:B5:251:TRP:CG	3:AH:208:LYS:HE2	2.25	0.71
5:D5:38:TYR:CA	3:AC:202:ASN:ND2	2.53	0.71
5:N5:194:LYS:HB3	5:N5:195:PRO:HD3	1.72	0.71
1:I6:37:ASP:OD1	1:YR:120:LEU:O	2.07	0.71
1:Z6:97:ILE:HD12	1:KE:304:GLN:CD	2.14	0.71
1:i6:136:ASN:HA	1:BJ:81:PHE:HZ	1.56	0.71
1:C7:133:LEU:HD13	2:NK:11:MET:CB	2.20	0.71
1:C7:140:PHE:HB3	1:LK:84:GLN:OE1	1.89	0.71
1:B7:133:LEU:O	2:EP:11:MET:SD	2.40	0.71
1:Q7:368:GLU:HG3	1:AG:108:MET:HA	1.72	0.71
1:Y7:207:ASN:ND2	1:a7:244:ASP:OD2	2.23	0.71
2:c8:37:SER:C	2:c8:38:GLU:OE2	2.33	0.71
4:BA:201:ASN:OD1	4:BC:138:THR:OG1	2.08	0.71
5:NA:194:LYS:HB3	5:NA:195:PRO:HD3	1.72	0.71
4:BB:147:THR:HG22	4:BF:192:THR:HB	1.72	0.71
3:AC:194:ASN:ND2	5:EN:36:ALA:CB	2.53	0.71
1:BE:105:GLU:N	1:BJ:110:LYS:HZ1	1.80	0.71
1:BE:174:MET:HG3	1:CP:33:TRP:CG	2.24	0.71
1:FE:140:PHE:O	1:CP:84:GLN:HB2	1.90	0.71
2:WE:37:SER:C	2:WE:38:GLU:OE2	2.33	0.71
1:aE:169:LYS:HD2	1:aE:318:THR:HG23	1.73	0.71
1:QG:207:ASN:ND2	1:SG:244:ASP:OD2	2.23	0.71
2:XG:55:GLY:CA	2:fL:2:TYR:HB2	2.18	0.71
3:AI:104:GLN:HG2	2:MJ:19:ARG:CG	2.16	0.71
5:EI:36:ALA:CB	3:AN:194:ASN:ND2	2.53	0.71
1:KJ:30:SER:O	1:AP:316:VAL:N	2.20	0.71
1:LJ:368:GLU:N	1:CS:375:TRP:CD2	2.53	0.71
1:AK:305:SER:HB3	1:KP:28:ASP:CG	2.14	0.71
1:CK:35:PHE:CE2	1:hR:178:TYR:HD1	2.08	0.71
1:LK:255:ILE:HG22	1:LK:265:ASP:OD1	1.90	0.71
1:DP:153:LEU:HD21	2:mR:4:GLY:CA	2.20	0.71
2:UQ:37:SER:C	2:UQ:38:GLU:OE2	2.33	0.71
2:fQ:37:SER:C	2:fQ:38:GLU:OE2	2.33	0.71
1:CR:208:LEU:CD1	1:CR:391:ILE:HD12	1.95	0.71
2:E1:37:SER:C	2:E1:38:GLU:OE2	2.33	0.71
1:I1:53:TYR:O	1:SE:118:THR:CB	2.38	0.71
1:R1:123:ASN:HD22	1:CJ:21:ALA:CB	2.03	0.71
1:R1:123:ASN:HD22	1:CJ:21:ALA:HB2	1.51	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W1:4:GLY:CA	1:CS:153:LEU:HD21	2.20	0.71
3:A2:107:LEU:O	2:MD:7:MET:HG3	1.88	0.71
5:O2:194:LYS:HB3	5:O2:195:PRO:HD3	1.72	0.71
1:A3:97:ILE:HD12	1:g7:304:GLN:CD	2.14	0.71
1:I3:169:LYS:HD2	1:I3:318:THR:HG23	1.73	0.71
1:Q3:208:LEU:CD1	1:Q3:391:ILE:HD11	2.15	0.71
2:c3:37:SER:C	2:c3:38:GLU:OE2	2.33	0.71
1:f4:207:ASN:ND2	1:h4:244:ASP:OD2	2.23	0.71
3:A5:202:ASN:ND2	5:DM:38:TYR:CA	2.53	0.71
5:N5:228:ARG:HH22	5:CN:264:GLY:HA2	1.55	0.71
2:E6:37:SER:C	2:E6:38:GLU:OE2	2.33	0.71
1:Q6:208:LEU:HD11	1:Q6:391:ILE:HD13	1.46	0.71
1:S6:44:THR:HB	1:CS:16:LYS:NZ	2.04	0.71
1:Y6:120:LEU:O	1:SE:37:ASP:OD1	2.07	0.71
1:Y6:207:ASN:ND2	1:a6:244:ASP:OD2	2.23	0.71
1:g6:304:GLN:CD	1:BE:97:ILE:HD12	2.14	0.71
1:Z7:108:MET:HA	1:I8:368:GLU:HG3	1.73	0.71
1:g7:37:ASP:OD1	1:AE:120:LEU:O	2.07	0.71
1:g7:118:THR:CB	1:C8:53:TYR:O	2.38	0.71
2:k7:37:SER:C	2:k7:38:GLU:OE2	2.33	0.71
1:I8:208:LEU:CD1	1:I8:391:ILE:HD11	2.15	0.71
1:Q8:169:LYS:HD2	1:Q8:318:THR:HG23	1.73	0.71
2:c8:45:ILE:CG1	2:c8:46:HIS:N	2.36	0.71
1:i8:14:VAL:HG21	1:DD:14:VAL:HG12	0.79	0.71
2:k8:37:SER:C	2:k8:38:GLU:OE2	2.33	0.71
4:B9:192:THR:HB	4:BA:147:THR:HG22	1.72	0.71
4:B9:201:ASN:OD1	4:BA:138:THR:OG1	2.08	0.71
5:CC:264:GLY:HA2	5:NH:228:ARG:HH22	1.55	0.71
1:AD:305:SER:HB3	1:KK:28:ASP:CG	2.14	0.71
1:DD:314:GLY:O	1:KS:31:LYS:HG2	1.80	0.71
1:KD:28:ASP:HA	1:IS:304:GLN:NE2	2.04	0.71
1:LD:57:LYS:NZ	1:KK:61:THR:CG2	2.53	0.71
1:AE:207:ASN:ND2	1:CE:244:ASP:OD2	2.23	0.71
1:aE:207:ASN:ND2	1:cE:244:ASP:OD2	2.23	0.71
4:BF:138:THR:OG1	4:BM:201:ASN:OD1	2.08	0.71
5:EF:36:ALA:HB1	3:AO:194:ASN:ND2	2.05	0.71
5:FF:46:TYR:CD1	5:FM:31:PHE:CG	2.61	0.71
1:CG:244:ASP:OD2	1:ZL:207:ASN:ND2	2.22	0.71
1:aG:44:THR:HB	1:DK:16:LYS:NZ	2.04	0.71
3:AH:202:ASN:ND2	5:DI:38:TYR:CA	2.53	0.71
3:AI:10:VAL:HG22	5:DM:44:SER:CB	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BI:192:THR:HA	4:BO:147:THR:HA	1.72	0.71
1:DJ:314:GLY:O	1:LP:31:LYS:HG3	1.87	0.71
1:DJ:384:ILE:CD1	1:LP:35:PHE:CE1	2.71	0.71
2:FJ:10:MET:HB2	1:LP:372:VAL:CG1	2.19	0.71
1:KJ:153:LEU:HD12	2:MP:2:TYR:CE2	2.19	0.71
1:KJ:365:HIS:NE2	1:AP:361:LYS:HB2	2.05	0.71
1:LJ:31:LYS:CD	1:CS:316:VAL:HG12	2.04	0.71
1:YL:207:ASN:ND2	1:aL:244:ASP:OD2	2.23	0.71
5:CM:194:LYS:HB3	5:CM:195:PRO:HD3	1.72	0.71
3:AN:104:GLN:CD	2:MP:9:SER:N	2.48	0.71
1:QQ:169:LYS:HD2	1:QQ:318:THR:HG23	1.73	0.71
2:aQ:15:TYR:OH	1:AS:138:THR:HG21	1.91	0.71
1:KS:255:ILE:HG22	1:KS:265:ASP:OD1	1.90	0.71
1:I1:118:THR:CB	1:Y6:53:TYR:O	2.38	0.71
1:R1:310:THR:HG23	1:CJ:27:HIS:CE1	2.25	0.71
1:f1:53:TYR:O	1:C3:118:THR:CB	2.38	0.71
3:A2:208:LYS:HE2	4:BA:251:TRP:CG	2.26	0.71
2:d3:15:TYR:OH	1:BD:138:THR:HG21	1.91	0.71
1:Q4:244:ASP:OD2	1:h8:207:ASN:ND2	2.22	0.71
1:R4:310:THR:HG23	1:BS:27:HIS:CE1	2.25	0.71
2:l4:11:MET:CE	1:DK:372:VAL:CG2	2.65	0.71
5:E5:36:ALA:CB	3:AH:194:ASN:ND2	2.53	0.71
5:E5:57:GLU:HB3	4:BH:33:TYR:HE1	1.34	0.71
5:C5:264:GLY:HA2	5:NI:228:ARG:HH22	1.55	0.71
1:J6:108:MET:HA	1:IR:368:GLU:HG3	1.72	0.71
1:g6:27:HIS:HB2	1:LP:312:PRO:HG3	1.71	0.71
1:g6:31:LYS:CG	1:LP:314:GLY:HA2	2.19	0.71
1:C7:47:GLU:OE2	1:CK:22:LEU:HD22	1.89	0.71
1:D7:325:LYS:HB2	1:D7:325:LYS:HZ2	1.54	0.71
1:R7:108:MET:HA	1:Y7:368:GLU:HG3	1.72	0.71
1:C8:169:LYS:HD2	1:C8:318:THR:HG23	1.73	0.71
1:Q8:118:THR:CB	1:IG:53:TYR:O	2.38	0.71
1:Y8:207:ASN:ND2	1:a8:244:ASP:OD2	2.23	0.71
4:B9:192:THR:HA	4:BA:147:THR:HA	1.72	0.71
3:AA:208:LYS:HE2	4:BH:251:TRP:CG	2.26	0.71
4:BA:192:THR:HA	4:BC:147:THR:HA	1.72	0.71
5:OC:194:LYS:HB3	5:OC:195:PRO:HD3	1.72	0.71
1:LD:312:PRO:HG3	1:YG:27:HIS:HB2	1.71	0.71
2:GE:3:GLU:O	1:BP:153:LEU:HD21	1.90	0.71
1:SE:304:GLN:CD	1:JQ:97:ILE:HD12	2.14	0.71
3:AF:150:TYR:N	3:AM:37:GLU:OE2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BF:251:TRP:CG	3:AO:208:LYS:HE2	2.26	0.71
1:AG:207:ASN:ND2	1:YL:244:ASP:OD2	2.22	0.71
1:hG:97:ILE:HD12	1:CL:304:GLN:CD	2.14	0.71
3:AH:112:ILE:HG23	2:MP:20:LEU:CG	2.20	0.71
4:BH:192:THR:HB	4:BN:147:THR:HG22	1.72	0.71
1:DJ:261:ILE:CD1	1:DJ:265:ASP:OD1	2.37	0.71
1:KJ:28:ASP:HA	1:AP:304:GLN:HE22	1.55	0.71
1:KJ:30:SER:HB3	1:KP:98:ASN:HD22	1.54	0.71
1:KJ:153:LEU:CD1	2:MP:2:TYR:CD2	2.55	0.71
1:BP:166:LEU:HG	1:CP:96:PRO:HD2	1.73	0.71
1:DP:372:VAL:CG2	2:mR:11:MET:CE	2.65	0.71
1:QR:207:ASN:ND2	1:SR:244:ASP:OD2	2.23	0.71
1:YR:169:LYS:HD2	1:YR:318:THR:HG23	1.73	0.71
1:I1:169:LYS:HD2	1:I1:318:THR:HG23	1.73	0.71
1:Q1:208:LEU:CD1	1:Q1:391:ILE:HD11	2.15	0.71
1:X1:368:GLU:HG3	1:R3:108:MET:HA	1.72	0.71
1:I3:118:THR:CB	1:I4:53:TYR:O	2.38	0.71
1:Y3:82:ILE:CD1	1:BK:145:LEU:HD23	2.20	0.71
2:a3:11:MET:CG	1:BK:133:LEU:HB3	2.16	0.71
1:Q4:139:ARG:HD3	1:IL:81:PHE:CD2	2.21	0.71
1:X4:208:LEU:CD1	1:X4:391:ILE:HD12	1.95	0.71
1:g4:170:GLU:OE1	1:CD:32:SER:OG	2.07	0.71
3:A5:6:ARG:NH2	5:DO:52:LEU:CA	2.45	0.71
4:B5:138:THR:OG1	4:BN:201:ASN:OD1	2.08	0.71
5:F5:51:ARG:HD3	4:BH:32:PHE:HE1	1.54	0.71
5:C5:194:LYS:HB3	5:C5:195:PRO:HD3	1.72	0.71
1:I6:368:GLU:HG3	1:JL:108:MET:HA	1.72	0.71
1:Q6:58:ILE:CD1	1:CJ:55:PHE:HD2	2.01	0.71
1:Q6:207:ASN:ND2	1:S6:244:ASP:OD2	2.23	0.71
2:U6:37:SER:C	2:U6:38:GLU:OE2	2.33	0.71
1:I7:304:GLN:CD	1:cQ:97:ILE:HD12	2.14	0.71
2:P7:25:GLU:OE1	1:bQ:73:ASN:O	1.93	0.71
1:I8:169:LYS:HD2	1:I8:318:THR:HG23	1.73	0.71
1:BD:107:LEU:CG	1:KS:369:PHE:HZ	1.95	0.71
1:CD:55:PHE:HB3	1:YG:58:ILE:CD1	2.21	0.71
1:AE:169:LYS:HD2	1:AE:318:THR:HG23	1.73	0.71
5:OF:194:LYS:HB3	5:OF:195:PRO:HD3	1.72	0.71
1:CG:207:ASN:ND2	1:BG:244:ASP:OD2	2.23	0.71
2:HG:25:GLU:OE1	1:YL:73:ASN:O	1.93	0.71
1:aG:13:LEU:C	1:DK:45:MET:SD	2.63	0.71
1:aG:136:ASN:HA	1:BK:81:PHE:HZ	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:OH:194:LYS:HB3	5:OH:195:PRO:HD3	1.72	0.71
1:AJ:60:GLU:HB3	1:KJ:87:GLU:O	1.86	0.71
1:BK:261:ILE:HG22	1:BK:265:ASP:OD1	1.62	0.71
1:IL:53:TYR:O	1:IQ:118:THR:CB	2.38	0.71
1:CQ:169:LYS:HD2	1:CQ:318:THR:HG23	1.73	0.71
2:ER:37:SER:C	2:ER:38:GLU:OE2	2.33	0.71
1:AS:166:LEU:HG	1:BS:96:PRO:HD2	1.73	0.71
1:T1:140:PHE:O	1:CJ:84:GLN:HB2	1.90	0.71
1:g1:108:MET:HA	1:gR:368:GLU:HG3	1.72	0.71
5:F2:55:LEU:HD12	4:BF:32:PHE:CD1	2.24	0.71
2:E4:37:SER:C	2:E4:38:GLU:OE2	2.33	0.71
1:I4:364:PHE:HZ	1:R8:108:MET:CE	1.90	0.71
1:Q4:73:ASN:O	2:n8:25:GLU:OE1	1.93	0.71
1:Q4:118:THR:CB	1:IQ:53:TYR:O	2.38	0.71
2:W4:4:GLY:CA	1:DD:153:LEU:HD21	2.20	0.71
1:g4:178:TYR:HB2	1:CD:35:PHE:CZ	2.25	0.71
1:i4:140:PHE:O	1:CD:84:GLN:HB2	1.90	0.71
5:D5:44:SER:CB	3:AH:10:VAL:HG22	2.21	0.71
1:C6:53:TYR:O	1:gG:118:THR:CB	2.38	0.71
1:C6:368:GLU:HG3	1:AL:108:MET:HA	1.72	0.71
1:S6:136:ASN:HA	1:AS:81:PHE:HZ	1.55	0.71
1:Y6:169:LYS:HD2	1:Y6:318:THR:HG23	1.73	0.71
1:C8:118:THR:CB	1:AE:53:TYR:O	2.38	0.71
2:U8:37:SER:C	2:U8:38:GLU:OE2	2.33	0.71
1:g8:31:LYS:CG	1:KS:314:GLY:HA2	2.19	0.71
1:i8:44:THR:HB	1:DD:16:LYS:NZ	2.05	0.71
1:i8:49:PHE:CD1	1:DD:22:LEU:CD1	2.70	0.71
3:AA:194:ASN:ND2	5:EH:36:ALA:CB	2.53	0.71
3:AA:202:ASN:HD22	5:DN:38:TYR:HD1	1.39	0.71
5:OB:194:LYS:HB3	5:OB:195:PRO:HD3	1.72	0.71
3:AC:114:PHE:CB	2:MP:51:GLN:HG2	2.18	0.71
5:NC:194:LYS:HB3	5:NC:195:PRO:HD3	1.72	0.71
1:AD:116:MET:HG3	1:KK:51:ASN:HD22	1.55	0.71
1:AD:140:PHE:CA	3:AF:29:ARG:HD2	1.74	0.71
1:KD:32:SER:HG	1:IS:170:GLU:CD	1.96	0.71
2:MD:1:MET:CB	2:GK:54:THR:O	2.29	0.71
1:BG:208:LEU:HD22	1:BG:389:ASN:HB3	1.73	0.71
1:YG:169:LYS:HD2	1:YG:318:THR:HG23	1.73	0.71
3:AI:194:ASN:ND2	5:EM:36:ALA:HB1	2.05	0.71
3:AI:194:ASN:ND2	5:EM:36:ALA:CB	2.53	0.71
1:KJ:28:ASP:HA	1:AP:304:GLN:NE2	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:21:ALA:CB	1:hR:123:ASN:HD22	2.03	0.71
1:CK:367:PRO:CG	1:hR:375:TRP:CE3	2.72	0.71
1:AP:59:ASN:CG	1:AP:143:GLN:HB2	2.15	0.71
1:CQ:118:THR:CB	1:gR:53:TYR:O	2.38	0.71
1:bQ:169:LYS:HD2	1:bQ:318:THR:HG23	1.73	0.71
1:C1:53:TYR:O	1:bQ:118:THR:CB	2.38	0.71
1:Q1:53:TYR:O	1:IG:118:THR:CB	2.38	0.71
1:Q1:207:ASN:ND2	1:S1:244:ASP:OD2	2.23	0.71
1:X1:120:LEU:O	1:IR:37:ASP:OD1	2.07	0.71
2:j1:37:SER:C	2:j1:38:GLU:OE2	2.33	0.71
3:A2:194:ASN:ND2	5:EA:36:ALA:HB1	2.05	0.71
5:D2:38:TYR:HD1	3:AM:202:ASN:HD22	1.39	0.71
5:F2:31:PHE:CZ	5:F9:46:TYR:CB	2.61	0.71
1:C3:53:TYR:O	1:QG:118:THR:CB	2.38	0.71
1:Q3:248:SER:HG	1:J8:202:PHE:HD2	1.39	0.71
2:Z3:37:SER:C	2:Z3:38:GLU:OE2	2.33	0.71
1:h4:14:VAL:HG21	1:gG:14:VAL:CG2	2.19	0.71
3:A5:208:LYS:HE2	4:BO:251:TRP:CG	2.25	0.71
5:E5:36:ALA:HB1	3:AH:194:ASN:ND2	2.05	0.71
1:I6:53:TYR:O	1:YR:118:THR:CB	2.38	0.71
1:I6:169:LYS:HD2	1:I6:318:THR:HG23	1.73	0.71
1:I6:207:ASN:ND2	1:K6:244:ASP:OD2	2.23	0.71
1:Q6:45:MET:SD	1:CJ:14:VAL:CA	2.76	0.71
1:Y6:368:GLU:HG3	1:JG:108:MET:HA	1.72	0.71
1:g6:58:ILE:CD1	1:CP:55:PHE:HB3	2.21	0.71
1:g6:140:PHE:HB3	1:LP:84:GLN:OE1	1.89	0.71
1:h6:108:MET:HA	1:g7:368:GLU:HG3	1.72	0.71
1:Q7:53:TYR:O	1:YL:118:THR:CB	2.38	0.71
1:Y7:53:TYR:O	1:QQ:118:THR:CB	2.38	0.71
2:M8:37:SER:C	2:M8:38:GLU:OE2	2.33	0.71
1:a8:14:VAL:HG21	1:bQ:14:VAL:CG2	2.19	0.71
1:g8:29:TYR:CE2	1:KS:317:PHE:CE1	2.77	0.71
3:A9:36:LEU:HD21	1:AK:135:ASN:CG	2.15	0.71
5:D9:52:LEU:CA	3:AB:6:ARG:NH2	2.45	0.71
5:C9:194:LYS:HB3	5:C9:195:PRO:HD3	1.72	0.71
2:FD:16:GLU:HB3	1:KS:149:THR:CG2	2.20	0.71
1:KD:365:HIS:NE2	1:IS:361:LYS:HB2	2.05	0.71
1:BE:178:TYR:HB2	1:CP:35:PHE:CZ	2.25	0.71
1:aE:368:GLU:HG3	1:RG:108:MET:HA	1.73	0.71
1:cE:208:LEU:HD22	1:cE:389:ASN:HB3	1.73	0.71
1:gG:208:LEU:CD1	1:gG:391:ILE:HD11	2.15	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BI:201:ASN:OD1	4:BO:138:THR:OG1	2.08	0.71
4:BI:251:TRP:CG	3:AN:208:LYS:HE2	2.26	0.71
1:AJ:304:GLN:HE22	1:JS:28:ASP:HA	1.56	0.71
1:BJ:166:LEU:HG	1:CJ:96:PRO:HD2	1.73	0.71
1:LJ:57:LYS:HE3	1:JS:61:THR:CG2	2.05	0.71
1:LK:29:TYR:C	1:BP:98:ASN:HD21	1.97	0.71
2:ML:37:SER:C	2:ML:38:GLU:OE2	2.33	0.71
1:QL:169:LYS:HD2	1:QL:318:THR:HG23	1.73	0.71
1:IQ:169:LYS:HD2	1:IQ:318:THR:HG23	1.73	0.71
1:bQ:208:LEU:CD1	1:bQ:391:ILE:HD11	2.15	0.71
1:TR:325:LYS:HB2	1:TR:325:LYS:HZ2	1.53	0.71
2:UR:37:SER:C	2:UR:38:GLU:OE2	2.33	0.71
1:gR:207:ASN:ND2	1:iR:244:ASP:OD2	2.23	0.71
1:C1:368:GLU:HG3	1:J7:108:MET:HA	1.72	0.71
1:I1:152:ALA:HB2	2:PQ:15:TYR:CE2	2.26	0.71
1:I1:368:GLU:HG3	1:JQ:108:MET:HA	1.72	0.71
1:Q1:169:LYS:HD2	1:Q1:318:THR:HG23	1.73	0.71
1:Y1:108:MET:HA	1:CL:368:GLU:HG3	1.72	0.71
5:C2:264:GLY:HA2	5:N9:228:ARG:HH22	1.55	0.71
1:C3:169:LYS:HD2	1:C3:318:THR:HG23	1.73	0.71
1:I3:152:ALA:HB2	2:XR:15:TYR:CE2	2.26	0.71
1:J4:108:MET:HA	1:AE:368:GLU:HG3	1.72	0.71
1:Q4:53:TYR:O	1:IL:118:THR:CB	2.38	0.71
1:X4:169:LYS:HD2	1:X4:318:THR:HG23	1.73	0.71
1:f4:53:TYR:O	1:C6:118:THR:CB	2.38	0.71
1:f4:118:THR:CB	1:gG:53:TYR:O	2.38	0.71
3:A5:112:ILE:CG2	2:MJ:27:ASN:HD22	0.61	0.71
2:M6:37:SER:C	2:M6:38:GLU:OE2	2.33	0.71
1:Q6:82:ILE:CG1	1:CS:142:PHE:O	2.39	0.71
1:R6:108:MET:HA	1:Q8:368:GLU:HG3	1.72	0.71
2:X6:15:TYR:CE2	1:Q8:152:ALA:HB2	2.26	0.71
1:g6:45:MET:SD	1:CP:14:VAL:CA	2.76	0.71
1:g6:47:GLU:OE2	1:CP:22:LEU:HD22	1.89	0.71
1:g6:207:ASN:ND2	1:i6:244:ASP:OD2	2.23	0.71
1:A7:108:MET:HA	1:I7:368:GLU:HG3	1.72	0.71
1:B7:44:THR:HB	1:DP:16:LYS:NZ	2.05	0.71
1:I8:207:ASN:ND2	1:K8:244:ASP:OD2	2.23	0.71
1:K8:208:LEU:HD22	1:K8:389:ASN:HB3	1.73	0.71
1:b8:131:PHE:HB3	1:b8:159:LYS:HE3	1.73	0.71
1:g8:20:SER:CB	1:BS:47:GLU:CG	2.20	0.71
1:g8:32:SER:C	1:KS:174:MET:HE3	2.12	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:310:THR:HB	1:DD:27:HIS:CE1	2.26	0.71
1:i8:27:HIS:C	1:CD:100:ASP:CB	2.59	0.71
4:BC:192:THR:HB	4:BH:147:THR:HG22	1.72	0.71
1:LD:27:HIS:C	1:BK:100:ASP:HB2	2.16	0.71
1:LD:255:ILE:HG22	1:LD:265:ASP:OD1	1.90	0.71
1:KE:152:ALA:HB2	2:PR:15:TYR:CE2	2.26	0.71
1:KE:207:ASN:ND2	1:ME:244:ASP:OD2	2.23	0.71
1:LE:108:MET:HA	1:SE:368:GLU:HG3	1.72	0.71
1:aE:73:ASN:O	2:HR:25:GLU:OE1	1.92	0.71
1:bE:97:ILE:HD12	1:CR:304:GLN:CD	2.14	0.71
2:eE:37:SER:C	2:eE:38:GLU:OE2	2.33	0.71
5:EF:140:ASP:HB3	5:CF:139:LYS:HB2	1.62	0.71
1:SG:208:LEU:HD22	1:SG:389:ASN:HB3	1.73	0.71
1:YG:82:ILE:CG1	1:DK:142:PHE:O	2.39	0.71
2:cG:37:SER:C	2:cG:38:GLU:OE2	2.33	0.71
1:gG:169:LYS:HD2	1:gG:318:THR:HG23	1.73	0.71
1:BJ:100:ASP:HB2	1:LP:27:HIS:C	2.16	0.71
1:BJ:157:LYS:CE	2:iL:2:TYR:HE2	2.03	0.71
1:DJ:173:ALA:CB	1:LP:33:TRP:CZ3	2.47	0.71
1:AK:305:SER:HB2	1:KP:28:ASP:OD2	1.88	0.71
2:HK:8:ARG:HH12	1:jR:374:HIS:CG	2.00	0.71
1:LK:57:LYS:HE2	1:KP:61:THR:HG21	1.73	0.71
1:QL:207:ASN:ND2	1:SL:244:ASP:OD2	2.23	0.71
2:XL:15:TYR:CE2	1:YL:152:ALA:HB2	2.26	0.71
2:cL:37:SER:C	2:cL:38:GLU:OE2	2.33	0.71
1:gR:169:LYS:HD2	1:gR:318:THR:HG23	1.73	0.71
1:C1:118:THR:CB	1:Y8:53:TYR:O	2.38	0.71
2:P1:15:TYR:CE2	1:Q1:152:ALA:HB2	2.26	0.71
1:f1:118:THR:CB	1:QG:53:TYR:O	2.38	0.71
3:A2:33:ASN:HD21	1:AK:58:ILE:CD1	0.60	0.71
4:B2:147:THR:HA	4:BB:192:THR:HA	1.72	0.71
4:B2:192:THR:HB	4:B9:147:THR:HG22	1.72	0.71
4:B2:251:TRP:CG	3:AF:208:LYS:HE2	2.26	0.71
5:E2:36:ALA:CB	3:AF:194:ASN:ND2	2.53	0.71
5:E2:36:ALA:HB1	3:AF:194:ASN:ND2	2.05	0.71
1:A3:108:MET:HA	1:C8:368:GLU:HG3	1.72	0.71
2:H3:15:TYR:CE2	1:C8:152:ALA:HB2	2.26	0.71
1:I3:368:GLU:HG3	1:RR:108:MET:HA	1.72	0.71
2:M3:37:SER:C	2:M3:38:GLU:OE2	2.33	0.71
1:Q3:152:ALA:HB2	2:f8:15:TYR:CE2	2.26	0.71
1:S3:208:LEU:HD22	1:S3:389:ASN:HB3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C4:118:THR:CB	1:aE:53:TYR:O	2.38	0.71
1:C4:208:LEU:CD1	1:C4:391:ILE:HD11	2.16	0.71
1:I4:118:THR:CB	1:QL:53:TYR:O	2.38	0.71
1:R4:202:PHE:HD2	1:g8:248:SER:HG	1.39	0.71
1:S4:208:LEU:HD22	1:S4:389:ASN:HB3	1.73	0.71
2:b4:37:SER:C	2:b4:38:GLU:OE2	2.33	0.71
1:g4:382:LYS:HG2	1:CD:32:SER:O	1.89	0.71
1:i4:131:PHE:HB3	1:i4:159:LYS:HE3	1.73	0.71
3:A5:194:ASN:ND2	5:EO:36:ALA:CB	2.53	0.71
5:F5:38:TYR:HE2	4:BN:6:MET:HE3	1.56	0.71
1:B6:208:LEU:HD22	1:B6:389:ASN:HB3	1.73	0.71
2:H6:15:TYR:CE2	1:Y8:152:ALA:HB2	2.26	0.71
1:L6:131:PHE:HB3	1:L6:159:LYS:HE3	1.73	0.71
1:Z6:108:MET:HA	1:QQ:368:GLU:HG3	1.72	0.71
1:g6:133:LEU:HD13	2:NP:11:MET:CB	2.20	0.71
1:g6:310:THR:CB	1:DJ:27:HIS:HE1	2.04	0.71
1:C7:27:HIS:HB2	1:LK:312:PRO:HG3	1.71	0.71
1:I7:53:TYR:O	1:gR:118:THR:CB	2.38	0.71
1:I7:118:THR:CB	1:CQ:53:TYR:O	2.38	0.71
1:b7:131:PHE:HB3	1:b7:159:LYS:HE3	1.73	0.71
1:g7:302:ASP:CG	1:C8:29:TYR:HH	1.96	0.71
2:H8:15:TYR:CE2	1:QL:152:ALA:HB2	2.26	0.71
1:J8:108:MET:HA	1:CR:368:GLU:HG3	1.72	0.71
2:P8:15:TYR:CE2	1:CR:152:ALA:HB2	2.26	0.71
1:Y8:118:THR:CB	1:bQ:53:TYR:O	2.38	0.71
1:g8:208:LEU:CD1	1:g8:391:ILE:HD11	2.16	0.71
3:A9:66:ILE:CD1	1:AK:153:LEU:HD22	2.04	0.71
5:F9:31:PHE:CZ	5:FA:46:TYR:CB	2.61	0.71
3:AA:106:ARG:CB	2:MK:21:ASN:CB	2.67	0.71
1:BD:100:ASP:HB2	1:KS:27:HIS:C	2.16	0.71
1:LD:22:LEU:HD23	1:KK:47:GLU:OE1	1.85	0.71
1:DE:131:PHE:HB3	1:DE:159:LYS:HE3	1.73	0.71
1:BE:123:ASN:HD22	1:CP:21:ALA:HB2	1.51	0.71
1:KE:118:THR:CB	1:QQ:53:TYR:O	2.38	0.71
1:LE:65:ASP:O	1:LE:66:ILE:CD1	2.39	0.71
5:EF:140:ASP:HB3	5:CF:139:LYS:CD	2.14	0.71
1:YG:310:THR:CB	1:DK:27:HIS:HE1	2.04	0.71
4:BH:6:MET:HE3	5:FN:38:TYR:HE2	1.56	0.71
1:DJ:82:ILE:HD13	1:LP:144:THR:C	2.12	0.71
1:KJ:61:THR:CG2	1:LP:57:LYS:NZ	2.53	0.71
1:LJ:27:HIS:C	1:AS:100:ASP:HB2	2.16	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:50:VAL:HG21	1:KP:138:THR:HG22	1.72	0.71
1:QL:304:GLN:CD	1:RR:97:ILE:HD12	2.14	0.71
2:UL:37:SER:C	2:UL:38:GLU:OE2	2.33	0.71
3:AM:112:ILE:O	2:LS:18:SER:CA	2.38	0.71
5:FM:38:TYR:HE2	4:BO:6:MET:HE3	1.56	0.71
3:AN:202:ASN:HD22	5:DO:38:TYR:HD1	1.39	0.71
5:EO:140:ASP:HB3	5:CO:139:LYS:HB2	1.62	0.71
1:DQ:131:PHE:HB3	1:DQ:159:LYS:HE3	1.73	0.71
1:CR:207:ASN:ND2	1:BR:244:ASP:OD2	2.23	0.71
1:bR:131:PHE:HB3	1:bR:159:LYS:HE3	1.73	0.71
1:jR:131:PHE:HB3	1:jR:159:LYS:HE3	1.73	0.71
1:AS:4:GLN:HE21	1:AS:4:GLN:N	1.89	0.71
1:B1:208:LEU:HD22	1:B1:389:ASN:HB3	1.73	0.71
2:H1:15:TYR:CE2	1:f4:152:ALA:HB2	2.26	0.71
1:Q1:304:GLN:CD	1:R6:97:ILE:HD12	2.14	0.71
1:R1:98:ASN:CB	1:CS:28:ASP:O	2.38	0.71
1:X1:375:TRP:CE3	1:IR:367:PRO:CG	2.74	0.71
1:g1:65:ASP:O	1:g1:66:ILE:CD1	2.39	0.71
1:B3:208:LEU:HD22	1:B3:389:ASN:HB3	1.73	0.71
1:I3:53:TYR:O	1:QL:118:THR:CB	2.38	0.71
1:Q3:206:LEU:CD1	1:S3:244:ASP:OD1	2.39	0.71
2:d3:3:GLU:O	1:BD:153:LEU:HD21	1.90	0.71
1:C4:169:LYS:HD2	1:C4:318:THR:HG23	1.73	0.71
1:C4:248:SER:HG	1:RG:202:PHE:HD2	1.39	0.71
2:j4:11:MET:HG3	1:CD:133:LEU:CD2	2.21	0.71
3:A5:10:VAL:HG22	5:DO:44:SER:CB	2.21	0.71
1:I6:152:ALA:HB2	2:PL:15:TYR:CE2	2.26	0.71
1:Q6:14:VAL:CG1	1:CJ:45:MET:CE	2.62	0.71
1:a6:208:LEU:HD22	1:a6:389:ASN:HB3	1.73	0.71
1:g6:14:VAL:CG1	1:CP:45:MET:CE	2.62	0.71
1:h6:65:ASP:O	1:h6:66:ILE:CD1	2.39	0.71
1:C7:140:PHE:CE2	1:LK:123:ASN:ND2	2.58	0.71
1:C7:310:THR:HB	1:DP:27:HIS:CE1	2.26	0.71
2:E7:37:SER:C	2:E7:38:GLU:OE2	2.33	0.71
2:H7:15:TYR:CE2	1:I7:152:ALA:HB2	2.26	0.71
1:Z8:65:ASP:O	1:Z8:66:ILE:CD1	2.39	0.71
1:g8:169:LYS:HD2	1:g8:318:THR:HG23	1.73	0.71
5:D9:38:TYR:HD1	3:AF:202:ASN:HD22	1.39	0.71
5:D9:38:TYR:CA	3:AF:202:ASN:ND2	2.53	0.71
5:E9:36:ALA:CB	3:AB:194:ASN:ND2	2.53	0.71
1:KD:61:THR:CG2	1:KS:57:LYS:HZ1	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:366:ASN:O	1:IS:361:LYS:NZ	2.21	0.71
1:LD:123:ASN:ND2	1:YG:140:PHE:CE2	2.58	0.71
2:HE:11:MET:HG3	1:CP:133:LEU:CD2	2.21	0.71
1:KE:368:GLU:HG3	1:JR:108:MET:HA	1.73	0.71
1:aE:375:TRP:CE3	1:CG:367:PRO:CG	2.74	0.71
2:hE:25:GLU:OE1	1:CR:73:ASN:O	1.93	0.71
5:EF:36:ALA:CB	3:AO:194:ASN:ND2	2.53	0.71
1:QG:152:ALA:HB2	2:HQ:15:TYR:CE2	2.26	0.71
3:AH:202:ASN:HD21	5:DI:38:TYR:CA	2.04	0.71
5:CI:264:GLY:HA2	5:NO:228:ARG:HH22	1.55	0.71
1:AJ:62:LEU:CD2	1:KJ:88:GLU:HB3	2.21	0.71
1:LJ:57:LYS:NZ	1:JS:61:THR:CG2	2.53	0.71
1:LJ:57:LYS:HE2	1:JS:61:THR:HG21	1.73	0.71
1:LJ:365:HIS:CD2	2:ES:10:MET:CE	2.57	0.71
1:BK:47:GLU:O	1:jR:21:ALA:HB3	1.91	0.71
1:LK:47:GLU:OE1	1:KP:22:LEU:CA	2.27	0.71
1:LK:368:GLU:N	1:DP:375:TRP:CD2	2.53	0.71
1:JL:65:ASP:O	1:JL:66:ILE:CD1	2.39	0.71
1:YL:53:TYR:O	1:QR:118:THR:CB	2.38	0.71
1:CQ:207:ASN:ND2	1:BQ:244:ASP:OD2	2.23	0.71
1:YR:207:ASN:ND2	1:aR:244:ASP:OD2	2.23	0.71
1:C1:73:ASN:O	2:H6:25:GLU:OE1	1.93	0.70
1:Q1:118:THR:CB	1:Q8:53:TYR:O	2.38	0.70
1:X1:53:TYR:O	1:I8:118:THR:CB	2.38	0.70
2:e1:15:TYR:CE2	1:CL:152:ALA:HB2	2.26	0.70
2:m1:15:TYR:CE2	1:gR:152:ALA:HB2	2.26	0.70
3:A2:10:VAL:HG22	5:DA:44:SER:CB	2.21	0.70
5:D2:38:TYR:CA	3:AM:202:ASN:HD21	2.04	0.70
1:C3:368:GLU:HG3	1:A4:108:MET:HA	1.73	0.70
1:J3:210:ASN:ND2	1:Q8:71:ARG:NH2	2.29	0.70
2:a3:15:TYR:OH	1:BK:138:THR:HG21	1.91	0.70
1:K4:208:LEU:HD22	1:K4:389:ASN:HB3	1.73	0.70
1:Q4:152:ALA:HB2	2:fR:15:TYR:CE2	2.26	0.70
1:X4:53:TYR:O	1:CR:118:THR:CB	2.38	0.70
1:g4:65:ASP:O	1:g4:66:ILE:CD1	2.39	0.70
1:I6:118:THR:CB	1:CL:53:TYR:O	2.38	0.70
1:Q6:310:THR:HB	1:CS:27:HIS:CE1	2.26	0.70
2:k6:39:ASP:OD1	2:k6:39:ASP:N	2.24	0.70
1:C7:29:TYR:O	1:LK:312:PRO:CG	2.39	0.70
1:Q7:206:LEU:CD1	1:S7:244:ASP:OD1	2.39	0.70
1:Q7:364:PHE:HZ	1:AG:108:MET:CE	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X7:15:TYR:CE2	1:Y7:152:ALA:HB2	2.26	0.70
1:Y7:118:THR:CB	1:KE:53:TYR:O	2.38	0.70
1:J8:65:ASP:O	1:J8:66:ILE:CD1	2.39	0.70
1:Y8:169:LYS:HD2	1:Y8:318:THR:HG23	1.73	0.70
1:h8:108:MET:HA	1:IQ:368:GLU:HG3	1.73	0.70
3:A9:150:TYR:O	1:AK:144:THR:HG23	1.89	0.70
5:DB:44:SER:CB	3:AM:10:VAL:HG22	2.21	0.70
5:EB:36:ALA:CB	3:AM:194:ASN:ND2	2.53	0.70
5:FC:31:PHE:CG	5:FH:46:TYR:CD1	2.61	0.70
5:CC:194:LYS:HB3	5:CC:195:PRO:HD3	1.72	0.70
1:AD:62:LEU:CD2	1:KD:88:GLU:HB3	2.20	0.70
1:AD:316:VAL:HG22	1:KK:30:SER:O	1.91	0.70
1:BD:166:LEU:HG	1:CD:96:PRO:HD2	1.73	0.70
1:LD:27:HIS:CE1	1:DK:312:PRO:HD3	2.26	0.70
1:LD:57:LYS:HE2	1:KK:61:THR:HG21	1.73	0.70
1:aE:118:THR:CB	1:CG:53:TYR:O	2.38	0.70
1:aE:152:ALA:HB2	2:XG:15:TYR:CE2	2.26	0.70
1:dE:131:PHE:HB3	1:dE:159:LYS:HE3	1.73	0.70
5:DF:44:SER:CB	3:AO:10:VAL:HG22	2.21	0.70
2:UG:37:SER:C	2:UG:38:GLU:OE2	2.33	0.70
1:aG:208:LEU:HD22	1:aG:389:ASN:HB3	1.73	0.70
1:jG:131:PHE:HB3	1:jG:159:LYS:HE3	1.73	0.70
5:CH:194:LYS:HB3	5:CH:195:PRO:HD3	1.72	0.70
1:AJ:361:LYS:HB2	1:JS:365:HIS:NE2	2.05	0.70
1:BJ:153:LEU:HD21	2:iL:3:GLU:O	1.90	0.70
2:GJ:54:THR:O	2:MP:1:MET:CB	2.29	0.70
1:KJ:193:SER:HB3	7:OJ:9:ALA:HB2	1.73	0.70
1:LJ:144:THR:C	1:CS:82:ILE:HD13	2.12	0.70
1:CL:118:THR:CB	1:YR:53:TYR:O	2.38	0.70
1:YL:169:LYS:HD2	1:YL:318:THR:HG23	1.73	0.70
2:hL:39:ASP:OD1	2:hL:39:ASP:N	2.24	0.70
4:BM:147:THR:HA	4:BO:192:THR:HA	1.72	0.70
5:NM:231:ASN:CB	5:CO:265:LEU:CG	2.61	0.70
3:AN:202:ASN:ND2	5:DO:38:TYR:CA	2.53	0.70
1:KQ:208:LEU:HD22	1:KQ:389:ASN:HB3	1.73	0.70
1:C1:206:LEU:CD1	1:B1:244:ASP:OD1	2.39	0.70
2:E1:39:ASP:N	2:E1:39:ASP:OD1	2.24	0.70
1:X1:152:ALA:HB2	2:X3:15:TYR:CE2	2.26	0.70
2:b1:37:SER:C	2:b1:38:GLU:OE2	2.33	0.70
1:I3:71:ARG:NH2	1:R8:210:ASN:ND2	2.29	0.70
1:Q3:367:PRO:CG	1:X4:375:TRP:CE3	2.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T3:131:PHE:HB3	1:T3:159:LYS:HE3	1.73	0.70
1:T4:32:SER:HA	1:BS:125:ILE:HD12	1.71	0.70
1:f4:169:LYS:HD2	1:f4:318:THR:HG23	1.73	0.70
1:g4:109:LEU:CD1	1:AD:106:GLU:HA	2.11	0.70
1:i4:21:ALA:HB3	1:BD:47:GLU:O	1.91	0.70
3:A5:158:GLU:OE2	1:AJ:136:ASN:ND2	2.24	0.70
4:B5:142:SER:OG	4:BN:197:SER:OG	2.09	0.70
1:C6:206:LEU:CD1	1:B6:244:ASP:OD1	2.39	0.70
2:E6:39:ASP:N	2:E6:39:ASP:OD1	2.24	0.70
2:U7:39:ASP:OD1	2:U7:39:ASP:N	2.24	0.70
2:f7:15:TYR:CE2	1:I8:152:ALA:HB2	2.26	0.70
5:OA:194:LYS:HB3	5:OA:195:PRO:HD3	1.72	0.70
4:BC:197:SER:OG	4:BH:142:SER:OG	2.09	0.70
1:BD:4:GLN:N	1:BD:4:GLN:HE21	1.89	0.70
1:CD:55:PHE:HD2	1:YG:58:ILE:CD1	2.01	0.70
1:CD:265:ASP:OD2	2:ED:41:TYR:CE1	2.40	0.70
1:LD:174:MET:HE3	1:YG:32:SER:C	2.12	0.70
2:GE:15:TYR:OH	1:BP:138:THR:HG21	1.91	0.70
1:CE:208:LEU:HD22	1:CE:389:ASN:HB3	1.73	0.70
2:HE:5:ASN:C	1:CP:153:LEU:CD1	2.65	0.70
2:JE:54:THR:CG2	2:NP:1:MET:HE1	2.20	0.70
1:aE:206:LEU:CD1	1:cE:244:ASP:OD1	2.39	0.70
4:BF:147:THR:HA	4:BM:192:THR:HA	1.72	0.70
1:CG:152:ALA:HB2	2:HR:15:TYR:CE2	2.26	0.70
1:KG:208:LEU:HD22	1:KG:389:ASN:HB3	1.73	0.70
1:gG:206:LEU:CD1	1:iG:244:ASP:OD1	2.39	0.70
5:NH:194:LYS:HB3	5:NH:195:PRO:HD3	1.72	0.70
1:KJ:61:THR:HG21	1:LP:57:LYS:HE2	1.73	0.70
1:LJ:149:THR:CG2	2:ES:16:GLU:HB3	2.20	0.70
1:CK:125:ILE:HD12	1:jR:32:SER:HA	1.71	0.70
1:CL:169:LYS:HD2	1:CL:318:THR:HG23	1.73	0.70
1:gL:131:PHE:HB3	1:gL:159:LYS:HE3	1.73	0.70
1:gL:325:LYS:HB2	1:gL:325:LYS:HZ2	1.55	0.70
5:DM:30:PRO:CB	1:IS:140:PHE:HD2	1.96	0.70
3:AO:29:ARG:NH2	1:IS:370:ASP:CG	2.49	0.70
2:aQ:2:TYR:HE2	1:AS:157:LYS:CE	2.03	0.70
1:bQ:206:LEU:CD1	1:dQ:244:ASP:OD1	2.39	0.70
1:eQ:131:PHE:HB3	1:eQ:159:LYS:HE3	1.73	0.70
1:RR:65:ASP:O	1:RR:66:ILE:CD1	2.39	0.70
1:iR:208:LEU:HD22	1:iR:389:ASN:HB3	1.73	0.70
1:C1:207:ASN:ND2	1:B1:244:ASP:OD2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:25:GLU:OE1	1:C6:73:ASN:O	1.93	0.70
1:I1:207:ASN:ND2	1:K1:244:ASP:OD2	2.23	0.70
1:X1:169:LYS:HD2	1:X1:318:THR:HG23	1.73	0.70
1:Z1:208:LEU:HD22	1:Z1:389:ASN:HB3	1.73	0.70
1:f1:206:LEU:CD1	1:h1:244:ASP:OD1	2.39	0.70
1:I3:248:SER:HG	1:R8:202:PHE:HD2	1.36	0.70
1:L3:131:PHE:HB3	1:L3:159:LYS:HE3	1.73	0.70
1:C4:206:LEU:CD1	1:B4:244:ASP:OD1	2.39	0.70
1:C4:375:TRP:CE3	1:aE:367:PRO:CG	2.74	0.70
1:I4:206:LEU:CD1	1:K4:244:ASP:OD1	2.39	0.70
1:Z4:208:LEU:HD22	1:Z4:389:ASN:HB3	1.73	0.70
3:A5:202:ASN:HD21	5:DM:38:TYR:CB	1.99	0.70
1:K6:208:LEU:HD22	1:K6:389:ASN:HB3	1.73	0.70
1:Q6:29:TYR:O	1:LJ:312:PRO:CG	2.39	0.70
1:R6:65:ASP:O	1:R6:66:ILE:CD1	2.39	0.70
1:T6:131:PHE:HB3	1:T6:159:LYS:HE3	1.73	0.70
1:g6:82:ILE:CG1	1:DJ:142:PHE:O	2.39	0.70
2:n6:15:TYR:CE2	1:g7:152:ALA:HB2	2.26	0.70
1:C7:58:ILE:HB	1:CK:55:PHE:HE2	1.48	0.70
1:C7:169:LYS:HD2	1:C7:318:THR:HG23	1.73	0.70
1:C7:208:LEU:CD1	1:C7:391:ILE:HD11	2.15	0.70
1:B7:208:LEU:HD22	1:B7:389:ASN:HB3	1.73	0.70
1:I7:169:LYS:HD2	1:I7:318:THR:HG23	1.73	0.70
1:I7:206:LEU:CD1	1:K7:244:ASP:OD1	2.39	0.70
1:T7:131:PHE:HB3	1:T7:159:LYS:HE3	1.73	0.70
1:Z7:65:ASP:O	1:Z7:66:ILE:CD1	2.39	0.70
2:c7:37:SER:C	2:c7:38:GLU:OE2	2.33	0.70
3:A9:10:VAL:HG22	5:DC:44:SER:CB	2.21	0.70
4:BA:33:TYR:HE1	5:EH:57:GLU:HB3	1.34	0.70
5:DA:38:TYR:CB	3:AB:202:ASN:HD21	1.99	0.70
5:FB:38:TYR:HE2	4:BF:6:MET:HE3	1.56	0.70
1:AD:222:SER:O	1:KK:53:TYR:CE1	2.44	0.70
1:LD:50:VAL:HG21	1:KK:138:THR:HG22	1.72	0.70
1:FE:51:ASN:CG	1:CP:116:MET:CE	2.63	0.70
2:ZE:15:TYR:CE2	1:IL:152:ALA:HB2	2.26	0.70
5:DF:38:TYR:CA	3:AI:202:ASN:HD21	2.04	0.70
1:CG:364:PHE:HZ	1:AR:108:MET:CE	1.90	0.70
1:IG:206:LEU:CD1	1:KG:244:ASP:OD1	2.39	0.70
1:YG:207:ASN:ND2	1:aG:244:ASP:OD2	2.23	0.70
1:YG:310:THR:HB	1:DK:27:HIS:CE1	2.26	0.70
1:aG:57:LYS:HD3	1:DK:143:GLN:HE22	1.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aG:133:LEU:O	2:EK:11:MET:SD	2.40	0.70
1:LJ:38:LYS:HG3	1:CS:119:LYS:HZ3	1.53	0.70
1:LJ:54:LEU:HD13	1:CS:116:MET:CE	2.22	0.70
1:AK:62:LEU:CD2	1:KK:88:GLU:HB3	2.21	0.70
1:CK:84:GLN:HB2	1:jR:140:PHE:O	1.90	0.70
1:CK:116:MET:CE	1:jR:51:ASN:CG	2.63	0.70
1:CL:206:LEU:CD1	1:BL:244:ASP:OD1	2.39	0.70
1:IL:206:LEU:CD1	1:KL:244:ASP:OD1	2.39	0.70
1:CR:206:LEU:CD1	1:BR:244:ASP:OD1	2.39	0.70
1:IR:169:LYS:HD2	1:IR:318:THR:HG23	1.73	0.70
1:IR:207:ASN:ND2	1:KR:244:ASP:OD2	2.23	0.70
1:YR:206:LEU:CD1	1:aR:244:ASP:OD1	2.39	0.70
1:bR:325:LYS:HB2	1:bR:325:LYS:HZ2	1.54	0.70
1:IS:62:LEU:CG	1:JS:88:GLU:HB3	2.21	0.70
1:I1:206:LEU:CD1	1:K1:244:ASP:OD1	2.39	0.70
1:I1:375:TRP:CE3	1:Y6:367:PRO:CG	2.74	0.70
1:Q1:375:TRP:CE3	1:Q8:367:PRO:CG	2.74	0.70
1:R1:178:TYR:HD1	1:CJ:35:PHE:CE2	2.08	0.70
2:U1:5:ASN:C	1:CJ:153:LEU:CD1	2.65	0.70
1:X1:206:LEU:CD1	1:Z1:244:ASP:OD1	2.39	0.70
1:f1:152:ALA:HB2	2:n7:15:TYR:CE2	2.26	0.70
4:B2:147:THR:HG22	4:BB:192:THR:HB	1.72	0.70
2:P3:15:TYR:CE2	1:IG:152:ALA:HB2	2.26	0.70
1:Q3:169:LYS:HD2	1:Q3:318:THR:HG23	1.73	0.70
2:X3:25:GLU:OE1	1:I8:73:ASN:O	1.92	0.70
2:U4:11:MET:HG3	1:BS:133:LEU:CD2	2.21	0.70
1:i4:51:ASN:CG	1:CD:116:MET:CE	2.63	0.70
1:i4:144:THR:O	1:CD:82:ILE:CD1	2.12	0.70
1:i4:374:HIS:CG	2:HD:8:ARG:HH12	2.00	0.70
3:A5:258:LYS:HE2	3:AN:311:ILE:HD12	1.74	0.70
4:B5:147:THR:HG22	4:BN:192:THR:HB	1.72	0.70
1:C6:207:ASN:ND2	1:B6:244:ASP:OD2	2.23	0.70
1:Q6:58:ILE:CD1	1:CJ:55:PHE:HB3	2.21	0.70
1:g6:206:LEU:CD1	1:i6:244:ASP:OD1	2.39	0.70
1:Q7:367:PRO:CG	1:YL:375:TRP:CE3	2.74	0.70
1:Q7:375:TRP:CE3	1:QR:367:PRO:CG	2.74	0.70
1:Y7:169:LYS:HD2	1:Y7:318:THR:HG23	1.73	0.70
1:C8:206:LEU:CD1	1:B8:244:ASP:OD1	2.39	0.70
1:C8:207:ASN:ND2	1:B8:244:ASP:OD2	2.23	0.70
1:L8:131:PHE:HB3	1:L8:159:LYS:HE3	1.73	0.70
1:T8:131:PHE:HB3	1:T8:159:LYS:HE3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:206:LEU:CD1	1:i8:244:ASP:OD1	2.39	0.70
3:A9:36:LEU:HD21	1:AK:135:ASN:OD1	1.92	0.70
3:A9:36:LEU:HD21	1:AK:135:ASN:HD21	1.54	0.70
3:AA:311:ILE:HD12	3:AC:258:LYS:HE2	1.74	0.70
5:NB:194:LYS:HB3	5:NB:195:PRO:HD3	1.72	0.70
5:NB:230:SER:C	5:CF:266:THR:HB	2.17	0.70
3:AC:6:ARG:NH2	5:DN:52:LEU:CA	2.45	0.70
4:BC:32:PHE:HE1	5:FN:51:ARG:HD3	1.54	0.70
1:AD:62:LEU:CG	1:KD:88:GLU:HB3	2.21	0.70
1:KD:30:SER:O	1:IS:316:VAL:HG22	1.91	0.70
1:LD:29:TYR:C	1:BK:98:ASN:HD21	1.97	0.70
1:LD:312:PRO:CG	1:YG:29:TYR:O	2.39	0.70
1:KE:206:LEU:CD1	1:ME:244:ASP:OD1	2.39	0.70
2:RE:15:TYR:CE2	1:SE:152:ALA:HB2	2.26	0.70
1:BJ:138:THR:HG21	2:iL:15:TYR:OH	1.91	0.70
1:KJ:30:SER:O	1:AP:316:VAL:HG22	1.91	0.70
1:LJ:45:MET:CA	1:JS:14:VAL:CG2	2.63	0.70
1:LK:27:HIS:C	1:BP:100:ASP:HB2	2.16	0.70
1:bL:131:PHE:HB3	1:bL:159:LYS:HE3	1.73	0.70
5:EM:140:ASP:HB3	5:CM:139:LYS:CD	2.14	0.70
5:NO:194:LYS:HB3	5:NO:195:PRO:HD3	1.72	0.70
1:AP:62:LEU:CG	1:KP:88:GLU:HB3	2.22	0.70
1:DP:153:LEU:HD21	2:mR:3:GLU:O	1.91	0.70
1:CQ:206:LEU:CD1	1:BQ:244:ASP:OD1	2.39	0.70
1:DQ:325:LYS:HB2	1:DQ:325:LYS:HZ2	1.54	0.70
2:aQ:3:GLU:O	1:AS:153:LEU:HD21	1.90	0.70
1:SR:208:LEU:HD22	1:SR:389:ASN:HB3	1.73	0.70
1:TR:131:PHE:HB3	1:TR:159:LYS:HE3	1.73	0.70
1:A1:65:ASP:O	1:A1:66:ILE:CD1	2.39	0.70
1:f1:222:SER:HG	1:QG:53:TYR:HD1	1.38	0.70
3:A2:112:ILE:HG13	2:MD:5:ASN:HB3	0.73	0.70
3:A2:202:ASN:ND2	5:DC:38:TYR:CA	2.53	0.70
5:D2:44:SER:CB	3:AF:10:VAL:HG22	2.20	0.70
1:A3:20:SER:HG	1:A3:21:ALA:N	1.90	0.70
1:I3:302:ASP:CG	1:I4:29:TYR:HH	1.95	0.70
1:I3:367:PRO:CG	1:QL:375:TRP:CE3	2.74	0.70
1:Q3:53:TYR:O	1:X4:118:THR:CB	2.38	0.70
1:Y3:131:PHE:HB3	1:Y3:159:LYS:HE3	1.73	0.70
1:Y3:325:LYS:HB2	1:Y3:325:LYS:HZ2	1.57	0.70
1:I4:152:ALA:HB2	2:X8:15:TYR:CE2	2.26	0.70
1:R4:178:TYR:HD1	1:BS:35:PHE:CE2	2.08	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T4:131:PHE:HB3	1:T4:159:LYS:HE3	1.73	0.70
2:W4:54:THR:CG2	2:MS:1:MET:HE1	2.20	0.70
1:X4:207:ASN:ND2	1:Z4:244:ASP:OD2	2.23	0.70
2:j4:5:ASN:C	1:CD:153:LEU:CD1	2.65	0.70
3:A5:83:TYR:CB	1:AJ:153:LEU:CD1	2.68	0.70
1:A6:65:ASP:O	1:A6:66:ILE:CD1	2.39	0.70
1:S6:208:LEU:HD22	1:S6:389:ASN:HB3	1.73	0.70
1:Y6:118:THR:CB	1:SE:53:TYR:O	2.38	0.70
1:g6:29:TYR:O	1:LP:312:PRO:CG	2.39	0.70
1:g6:57:LYS:HD2	1:CP:58:ILE:HG21	1.73	0.70
1:C7:206:LEU:CD1	1:B7:244:ASP:OD1	2.39	0.70
1:C7:310:THR:CB	1:DP:27:HIS:HE1	2.04	0.70
1:I7:375:TRP:CE3	1:CQ:367:PRO:CG	2.74	0.70
1:Q7:152:ALA:HB2	2:HG:15:TYR:CE2	2.26	0.70
1:g7:206:LEU:CD1	1:i7:244:ASP:OD1	2.39	0.70
1:g7:367:PRO:CG	1:AE:375:TRP:CE3	2.74	0.70
1:C8:375:TRP:CE3	1:AE:367:PRO:CG	2.74	0.70
1:I8:53:TYR:O	1:IR:118:THR:CB	2.38	0.70
1:L8:325:LYS:HB2	1:L8:325:LYS:HZ2	1.57	0.70
1:g8:82:ILE:HD11	1:DD:142:PHE:O	1.92	0.70
5:D9:44:SER:CB	3:AB:10:VAL:HG22	2.21	0.70
3:AA:105:LYS:C	2:MK:21:ASN:HD21	1.99	0.70
5:CB:194:LYS:HB3	5:CB:195:PRO:HD3	1.72	0.70
5:FC:31:PHE:CZ	5:FH:46:TYR:CB	2.61	0.70
1:DD:312:PRO:HD3	1:KS:27:HIS:CE1	2.26	0.70
2:EE:37:SER:C	2:EE:38:GLU:OE2	2.33	0.70
1:KE:375:TRP:CE3	1:QQ:367:PRO:CG	2.74	0.70
1:SE:206:LEU:CD1	1:UE:244:ASP:OD1	2.39	0.70
1:TG:131:PHE:HB3	1:TG:159:LYS:HE3	1.73	0.70
1:aG:49:PHE:CD1	1:DK:22:LEU:CD1	2.70	0.70
1:bG:325:LYS:HB2	1:bG:325:LYS:HZ2	1.55	0.70
3:AI:112:ILE:HA	2:MJ:5:ASN:C	1.84	0.70
1:AJ:222:SER:O	1:JS:53:TYR:CE1	2.44	0.70
2:FJ:2:TYR:HE2	1:LP:157:LYS:HZ3	1.36	0.70
1:AK:59:ASN:CG	1:AK:143:GLN:HB2	2.15	0.70
1:LK:54:LEU:HD13	1:DP:116:MET:CE	2.22	0.70
1:LK:109:LEU:CD2	1:iR:106:GLU:N	2.55	0.70
1:DL:325:LYS:HB2	1:DL:325:LYS:HZ2	1.57	0.70
1:SL:208:LEU:HD22	1:SL:389:ASN:HB3	1.73	0.70
1:ZL:65:ASP:O	1:ZL:66:ILE:CD1	2.39	0.70
5:DM:30:PRO:HG3	1:IS:140:PHE:CD2	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EN:140:ASP:HB3	5:CN:139:LYS:CD	2.14	0.70
1:YQ:82:ILE:CD1	1:AS:145:LEU:HD23	2.20	0.70
1:dQ:208:LEU:HD22	1:dQ:389:ASN:HB3	1.73	0.70
1:A1:108:MET:HA	1:f4:368:GLU:HG3	1.73	0.70
1:S1:208:LEU:HD22	1:S1:389:ASN:HB3	1.73	0.70
1:T1:21:ALA:HB3	1:BJ:47:GLU:O	1.91	0.70
1:T1:44:THR:C	1:BJ:17:SER:HB3	2.17	0.70
1:T1:374:HIS:CE1	2:HJ:9:SER:HG	2.04	0.70
2:W1:54:THR:CG2	2:NJ:1:MET:HE1	2.20	0.70
1:X1:208:LEU:CD1	1:X1:391:ILE:HD11	2.15	0.70
1:f1:368:GLU:HG3	1:h7:108:MET:HA	1.72	0.70
5:C2:266:THR:HB	5:N9:230:SER:C	2.17	0.70
1:I3:375:TRP:CE3	1:I4:367:PRO:CG	2.74	0.70
1:C4:368:GLU:HG3	1:ZL:108:MET:HA	1.72	0.70
1:L4:131:PHE:HB3	1:L4:159:LYS:HE3	1.73	0.70
4:B5:32:PHE:HE1	5:FO:51:ARG:HD3	1.54	0.70
5:D5:38:TYR:CA	3:AC:202:ASN:HD21	2.04	0.70
5:D5:38:TYR:HD1	3:AC:202:ASN:HD22	1.39	0.70
1:A6:108:MET:HA	1:Y8:368:GLU:HG3	1.73	0.70
1:I6:375:TRP:CE3	1:CL:367:PRO:CG	2.74	0.70
1:J6:65:ASP:O	1:J6:66:ILE:CD1	2.39	0.70
1:Q6:206:LEU:CD1	1:S6:244:ASP:OD1	2.39	0.70
1:Y6:375:TRP:CE3	1:SE:367:PRO:CG	2.74	0.70
1:C7:58:ILE:CD1	1:CK:55:PHE:HB3	2.21	0.70
2:X7:25:GLU:OE1	1:QQ:73:ASN:O	1.93	0.70
1:g7:53:TYR:O	1:AE:118:THR:CB	2.38	0.70
1:g7:375:TRP:CE3	1:C8:367:PRO:CG	2.74	0.70
1:I8:206:LEU:CD1	1:K8:244:ASP:OD1	2.39	0.70
1:Y8:375:TRP:CE3	1:bQ:367:PRO:CG	2.74	0.70
1:g8:58:ILE:CD1	1:BS:55:PHE:HB3	2.21	0.70
1:g8:82:ILE:CG1	1:DD:142:PHE:O	2.39	0.70
5:C9:266:THR:HB	5:NA:230:SER:C	2.17	0.70
4:BA:6:MET:HE3	5:FC:38:TYR:HE2	1.56	0.70
3:AC:208:LYS:HE2	4:BN:251:TRP:CG	2.26	0.70
1:AD:57:LYS:CA	3:AF:154:ILE:HB	2.21	0.70
1:KD:138:THR:HG22	1:KS:50:VAL:HG21	1.72	0.70
3:AF:258:LYS:HE2	3:AM:311:ILE:HD12	1.74	0.70
1:LG:131:PHE:HB3	1:LG:159:LYS:HE3	1.73	0.70
1:iG:208:LEU:HD22	1:iG:389:ASN:HB3	1.73	0.70
2:nG:15:TYR:CE2	1:YR:152:ALA:HB2	2.26	0.70
4:BH:194:ASN:HA	4:BN:144:GLN:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EH:140:ASP:HB3	5:CH:139:LYS:HB2	1.62	0.70
3:AI:208:LYS:HE2	4:BM:251:TRP:CG	2.26	0.70
4:BI:192:THR:HB	4:BO:147:THR:HG22	1.72	0.70
1:CJ:355:TYR:HB3	1:CJ:379:TYR:HB3	1.74	0.70
1:KJ:53:TYR:CE1	1:AP:222:SER:O	2.44	0.70
1:LJ:35:PHE:CE1	1:CS:384:ILE:CD1	2.70	0.70
1:AK:62:LEU:CG	1:KK:88:GLU:HB3	2.22	0.70
1:AK:222:SER:C	1:KP:53:TYR:CD1	2.70	0.70
1:AK:222:SER:O	1:KP:53:TYR:CE1	2.44	0.70
1:BK:17:SER:HB3	1:jR:44:THR:C	2.17	0.70
1:CK:82:ILE:CD1	1:jR:144:THR:O	2.12	0.70
1:CK:153:LEU:CD1	2:kR:5:ASN:C	2.65	0.70
1:CL:375:TRP:CE3	1:YR:367:PRO:CG	2.74	0.70
4:BM:138:THR:OG1	4:BO:201:ASN:OD1	2.08	0.70
5:FM:46:TYR:CD1	5:FO:31:PHE:CG	2.61	0.70
5:FM:46:TYR:CB	5:FO:31:PHE:CZ	2.61	0.70
5:OO:194:LYS:HB3	5:OO:195:PRO:HD3	1.72	0.70
1:BQ:208:LEU:HD22	1:BQ:389:ASN:HB3	1.73	0.70
1:JQ:20:SER:HG	1:JQ:21:ALA:N	1.90	0.70
1:RQ:65:ASP:O	1:RQ:66:ILE:CD1	2.39	0.70
1:IR:206:LEU:CD1	1:KR:244:ASP:OD1	2.39	0.70
1:aR:208:LEU:HD22	1:aR:389:ASN:HB3	1.73	0.70
1:hR:65:ASP:O	1:hR:66:ILE:CD1	2.39	0.70
1:I1:367:PRO:CG	1:SE:375:TRP:CE3	2.74	0.70
1:J1:108:MET:HA	1:Q1:368:GLU:HG3	1.72	0.70
4:B2:33:TYR:HH	5:EA:57:GLU:HA	1.56	0.70
5:N2:194:LYS:HB3	5:N2:195:PRO:HD3	1.72	0.70
1:C3:367:PRO:CG	1:QG:375:TRP:CE3	2.74	0.70
1:J3:20:SER:HG	1:J3:21:ALA:N	1.89	0.70
1:Q3:375:TRP:CE3	1:CR:367:PRO:CG	2.74	0.70
2:d3:2:TYR:HE2	1:BD:157:LYS:CE	2.03	0.70
1:C4:152:ALA:HB2	2:fL:15:TYR:CE2	2.26	0.70
1:Q4:375:TRP:CE3	1:IQ:367:PRO:CG	2.74	0.70
1:f4:375:TRP:CE3	1:gG:367:PRO:CG	2.74	0.70
2:l4:3:GLU:O	1:DK:153:LEU:HD21	1.91	0.70
2:l4:54:THR:CG2	2:ND:1:MET:HE1	2.20	0.70
3:A5:311:ILE:HD12	3:AI:258:LYS:HE2	1.74	0.70
5:E5:140:ASP:HB3	5:C5:139:LYS:CD	2.14	0.70
5:F5:46:TYR:CD1	5:FN:31:PHE:CG	2.61	0.70
1:Q6:57:LYS:HD2	1:CJ:58:ILE:HG21	1.73	0.70
1:I7:367:PRO:CG	1:gR:375:TRP:CE3	2.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y7:206:LEU:CD1	1:a7:244:ASP:OD1	2.39	0.70
1:Q8:375:TRP:CE3	1:IG:367:PRO:CG	2.74	0.70
1:Y8:206:LEU:CD1	1:a8:244:ASP:OD1	2.39	0.70
1:g8:29:TYR:O	1:KS:312:PRO:CG	2.39	0.70
1:i8:143:GLN:HA	1:BD:82:ILE:HG12	1.73	0.70
1:i8:208:LEU:HD22	1:i8:389:ASN:HB3	1.73	0.70
3:AA:114:PHE:CA	2:MK:8:ARG:C	2.65	0.70
3:AB:150:TYR:N	3:AF:37:GLU:OE2	2.20	0.70
1:KD:14:VAL:CG2	1:KS:45:MET:CA	2.63	0.70
1:LD:54:LEU:HD13	1:DK:116:MET:CE	2.22	0.70
1:FE:21:ALA:HB3	1:BP:47:GLU:O	1.91	0.70
5:NF:194:LYS:HB3	5:NF:195:PRO:HD3	1.72	0.70
1:QG:206:LEU:CD1	1:SG:244:ASP:OD1	2.39	0.70
1:BJ:4:GLN:N	1:BJ:4:GLN:HE21	1.89	0.70
1:KJ:14:VAL:CG2	1:LP:45:MET:CA	2.63	0.70
1:KJ:53:TYR:CD1	1:AP:222:SER:C	2.70	0.70
1:LJ:57:LYS:CD	1:JS:143:GLN:OE1	2.30	0.70
1:BK:290:ASN:CG	1:BK:325:LYS:NZ	2.50	0.70
1:RL:108:MET:HA	1:YL:368:GLU:HG3	1.72	0.70
3:AN:202:ASN:HD21	5:DO:38:TYR:CA	2.04	0.70
1:CP:355:TYR:HB3	1:CP:379:TYR:HB3	1.74	0.70
1:CQ:152:ALA:HB2	2:iQ:15:TYR:CE2	2.26	0.70
1:AQ:20:SER:HG	1:AQ:21:ALA:N	1.89	0.70
1:IQ:206:LEU:CD1	1:KQ:244:ASP:OD1	2.39	0.70
2:aQ:11:MET:CG	1:AS:133:LEU:HB3	2.16	0.70
1:QR:206:LEU:CD1	1:SR:244:ASP:OD1	2.39	0.70
1:ZR:20:SER:HG	1:ZR:21:ALA:N	1.89	0.70
2:U1:11:MET:HG3	1:CJ:133:LEU:CD2	2.21	0.70
1:i1:131:PHE:HB3	1:i1:159:LYS:HE3	1.73	0.70
5:F2:38:TYR:HE2	4:BB:6:MET:HE3	1.56	0.70
5:C2:194:LYS:HB3	5:C2:195:PRO:HD3	1.72	0.70
5:N2:230:SER:C	5:CB:266:THR:HB	2.17	0.70
1:C3:206:LEU:CD1	1:B3:244:ASP:OD1	2.39	0.70
1:C4:367:PRO:CG	1:CG:375:TRP:CE3	2.74	0.70
1:B4:208:LEU:HD22	1:B4:389:ASN:HB3	1.73	0.70
1:Q4:206:LEU:CD1	1:S4:244:ASP:OD1	2.39	0.70
1:a4:325:LYS:HB2	1:a4:325:LYS:HZ2	1.55	0.70
1:f4:206:LEU:CD1	1:h4:244:ASP:OD1	2.39	0.70
1:L6:325:LYS:HB2	1:L6:325:LYS:HZ2	1.55	0.70
2:P6:15:TYR:CE2	1:IR:152:ALA:HB2	2.26	0.70
1:Y7:61:THR:HG22	1:JR:89:TYR:CE1	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y7:375:TRP:CE3	1:KE:367:PRO:CG	2.74	0.70
1:a7:208:LEU:HD22	1:a7:389:ASN:HB3	1.73	0.70
1:A8:108:MET:HA	1:QL:368:GLU:HG3	1.72	0.70
1:R8:20:SER:HG	1:R8:21:ALA:N	1.89	0.70
3:AA:202:ASN:HD21	5:DN:38:TYR:CA	2.04	0.70
3:AB:150:TYR:OH	1:AD:144:THR:CB	2.39	0.70
3:AB:258:LYS:HE2	3:AF:311:ILE:HD12	1.74	0.70
3:AC:311:ILE:HD12	3:AH:258:LYS:HE2	1.74	0.70
1:AD:361:LYS:NZ	1:KK:366:ASN:O	2.21	0.70
1:DD:304:GLN:NE2	1:KS:28:ASP:HB2	1.88	0.70
1:KD:20:SER:HB2	1:KS:47:GLU:CB	2.17	0.70
1:KD:53:TYR:CZ	1:IS:223:GLY:CA	2.65	0.70
1:LD:139:ARG:CB	1:DK:81:PHE:HE2	1.93	0.70
2:ND:11:MET:CB	1:YG:133:LEU:HD13	2.20	0.70
1:ZG:108:MET:HA	1:gG:368:GLU:HG3	1.72	0.70
5:CH:266:THR:HB	5:NN:230:SER:C	2.17	0.70
3:AI:311:ILE:HD12	3:AO:258:LYS:HE2	1.74	0.70
4:BI:6:MET:HE3	5:FO:38:TYR:HE2	1.56	0.70
1:BJ:290:ASN:CG	1:BJ:325:LYS:NZ	2.50	0.70
1:LJ:27:HIS:CE1	1:CS:312:PRO:HD3	2.27	0.70
1:KL:208:LEU:HD22	1:KL:389:ASN:HB3	1.73	0.70
4:BM:147:THR:HG22	4:BO:192:THR:HB	1.72	0.70
1:AP:62:LEU:CD2	1:KP:88:GLU:HB3	2.21	0.70
1:LQ:131:PHE:HB3	1:LQ:159:LYS:HE3	1.73	0.70
1:SQ:208:LEU:HD22	1:SQ:389:ASN:HB3	1.73	0.70
1:gR:206:LEU:CD1	1:iR:244:ASP:OD1	2.39	0.70
1:Q1:206:LEU:CD1	1:S1:244:ASP:OD1	2.39	0.70
1:X1:364:PHE:HZ	1:R3:108:MET:CE	1.90	0.70
1:D3:131:PHE:HB3	1:D3:159:LYS:HE3	1.73	0.70
1:A4:65:ASP:O	1:A4:66:ILE:CD1	2.39	0.70
1:T4:21:ALA:HB3	1:AS:47:GLU:O	1.91	0.70
1:X4:206:LEU:CD1	1:Z4:244:ASP:OD1	2.39	0.70
2:e4:15:TYR:CE2	1:bQ:152:ALA:HB2	2.26	0.70
1:g4:123:ASN:HD22	1:CD:21:ALA:CB	2.03	0.70
5:O5:194:LYS:HB3	5:O5:195:PRO:HD3	1.72	0.70
1:I6:206:LEU:CD1	1:K6:244:ASP:OD1	2.39	0.70
1:Q6:13:LEU:C	1:CJ:45:MET:HE3	2.10	0.70
1:C7:82:ILE:CG1	1:DP:142:PHE:O	2.39	0.70
1:I8:367:PRO:CG	1:IR:375:TRP:CE3	2.74	0.70
1:g8:31:LYS:HG3	1:KS:314:GLY:O	1.91	0.70
1:g8:57:LYS:HD2	1:BS:58:ILE:HG21	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:139:ARG:NH1	1:KS:81:PHE:CD2	2.44	0.70
1:h8:65:ASP:O	1:h8:66:ILE:CD1	2.39	0.70
4:B9:194:ASN:HA	4:BA:144:GLN:O	1.92	0.70
5:DB:38:TYR:CA	3:AO:202:ASN:HD21	2.04	0.70
4:BC:192:THR:HA	4:BH:147:THR:HA	1.72	0.70
5:DC:25:ARG:NE	1:DP:102:SER:O	2.25	0.70
1:KD:28:ASP:HA	1:IS:304:GLN:HE22	1.56	0.70
1:KD:53:TYR:CE1	1:IS:222:SER:O	2.44	0.70
1:LD:22:LEU:HD11	1:KK:49:PHE:N	2.07	0.70
2:GE:2:TYR:HE2	1:BP:157:LYS:CE	2.03	0.70
1:BE:170:GLU:OE1	1:CP:32:SER:OG	2.07	0.70
1:FE:366:ASN:CA	1:LP:108:MET:HE1	2.14	0.70
1:ME:208:LEU:HD22	1:ME:389:ASN:HB3	1.73	0.70
1:TE:108:MET:HA	1:IL:368:GLU:HG3	1.72	0.70
1:VE:131:PHE:HB3	1:VE:159:LYS:HE3	1.73	0.70
2:fG:15:TYR:CE2	1:gG:152:ALA:HB2	2.26	0.70
1:DJ:109:LEU:HD11	1:KP:105:GLU:C	2.08	0.70
2:GK:26:LEU:HD12	1:KK:70:ASN:H	1.57	0.70
1:RL:65:ASP:O	1:RL:66:ILE:CD1	2.39	0.70
1:YL:206:LEU:CD1	1:aL:244:ASP:OD1	2.39	0.70
2:cL:39:ASP:N	2:cL:39:ASP:OD1	2.24	0.70
5:CO:194:LYS:HB3	5:CO:195:PRO:HD3	1.72	0.70
1:CQ:368:GLU:HG3	1:cQ:108:MET:HA	1.72	0.70
1:QQ:206:LEU:CD1	1:SQ:244:ASP:OD1	2.39	0.70
1:L1:131:PHE:HB3	1:L1:159:LYS:HE3	1.73	0.70
1:R1:65:ASP:O	1:R1:66:ILE:CD1	2.39	0.70
1:X1:367:PRO:CG	1:I8:375:TRP:CE3	2.74	0.70
1:h1:208:LEU:HD22	1:h1:389:ASN:HB3	1.73	0.70
4:B2:30:LEU:H	5:EA:64:TRP:HE1	1.36	0.70
1:C3:208:LEU:CD1	1:C3:391:ILE:HD11	2.15	0.70
1:R4:123:ASN:HD22	1:BS:21:ALA:CB	2.03	0.70
1:Y4:108:MET:HA	1:bQ:368:GLU:HG3	1.72	0.70
3:A5:202:ASN:HD21	5:DM:38:TYR:CA	2.04	0.70
1:Q6:82:ILE:HD11	1:CS:142:PHE:O	1.92	0.70
1:Q6:310:THR:CB	1:CS:27:HIS:HE1	2.04	0.70
1:i6:208:LEU:HD22	1:i6:389:ASN:HB3	1.73	0.70
1:Z7:202:PHE:HD2	1:IR:248:SER:HG	1.40	0.70
1:A8:20:SER:HG	1:A8:21:ALA:N	1.89	0.70
1:Y8:208:LEU:CD1	1:Y8:391:ILE:HD11	2.15	0.70
1:g8:33:TRP:CZ2	1:KS:177:ASP:OD2	2.45	0.70
1:g8:310:THR:CB	1:DD:27:HIS:HE1	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DC:25:ARG:CZ	1:DP:102:SER:C	2.64	0.70
1:LD:314:GLY:O	1:YG:31:LYS:HG3	1.91	0.70
1:AE:206:LEU:CD1	1:CE:244:ASP:OD1	2.39	0.70
1:CE:106:GLU:N	1:LP:109:LEU:CD2	2.55	0.70
1:FE:131:PHE:HB3	1:FE:159:LYS:HE3	1.73	0.70
1:bE:65:ASP:O	1:bE:66:ILE:CD1	2.39	0.70
4:BF:147:THR:HG22	4:BM:192:THR:HB	1.72	0.70
1:YG:206:LEU:CD1	1:aG:244:ASP:OD1	2.39	0.70
5:CI:266:THR:HB	5:NO:230:SER:C	2.17	0.70
5:NI:194:LYS:HB3	5:NI:195:PRO:HD3	1.72	0.70
1:AJ:375:TRP:CG	1:JS:368:GLU:OE2	2.12	0.70
1:BJ:98:ASN:HD21	1:LP:29:TYR:C	1.97	0.70
1:DJ:116:MET:CE	1:LP:54:LEU:HD13	2.22	0.70
1:AK:316:VAL:HG22	1:KP:30:SER:O	1.91	0.70
1:CK:133:LEU:CD2	2:kR:11:MET:HG3	2.21	0.70
1:KK:193:SER:HB3	7:OK:9:ALA:HB2	1.73	0.70
1:LK:22:LEU:HD11	1:KP:49:PHE:N	2.07	0.70
1:LK:365:HIS:CD2	2:FP:10:MET:CE	2.57	0.70
2:MK:1:MET:CB	2:GP:54:THR:O	2.29	0.70
1:LL:131:PHE:HB3	1:LL:159:LYS:HE3	1.73	0.70
1:QL:206:LEU:CD1	1:SL:244:ASP:OD1	2.39	0.70
5:NM:230:SER:C	5:CO:266:THR:HB	2.17	0.70
1:IQ:208:LEU:CD1	1:IQ:391:ILE:HD11	2.15	0.70
1:YQ:131:PHE:HB3	1:YQ:159:LYS:HE3	1.73	0.70
1:KR:208:LEU:HD22	1:KR:389:ASN:HB3	1.73	0.70
1:BS:355:TYR:HB3	1:BS:379:TYR:HB3	1.74	0.70
2:FS:26:LEU:HD12	1:JS:70:ASN:H	1.57	0.70
1:IS:62:LEU:CD2	1:JS:88:GLU:HB3	2.21	0.70
1:C1:169:LYS:HD2	1:C1:318:THR:HG23	1.73	0.69
1:A3:65:ASP:O	1:A3:66:ILE:CD1	2.39	0.69
1:I4:375:TRP:CE3	1:QL:367:PRO:CG	2.74	0.69
2:U4:5:ASN:C	1:BS:153:LEU:CD1	2.65	0.69
2:W4:3:GLU:O	1:DD:153:LEU:HD21	1.91	0.69
4:B5:192:THR:HB	4:BI:147:THR:HG22	1.73	0.69
1:C6:169:LYS:HD2	1:C6:318:THR:HG23	1.73	0.69
1:Q6:21:ALA:N	1:CJ:47:GLU:HG2	2.06	0.69
1:Y6:206:LEU:CD1	1:a6:244:ASP:OD1	2.39	0.69
1:b6:131:PHE:HB3	1:b6:159:LYS:HE3	1.73	0.69
1:g6:73:ASN:O	2:JE:25:GLU:OE1	1.92	0.69
1:Y7:367:PRO:CG	1:QQ:375:TRP:CE3	2.74	0.69
1:j7:131:PHE:HB3	1:j7:159:LYS:HE3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:133:LEU:HD13	2:MS:11:MET:CB	2.20	0.69
1:g8:140:PHE:CE2	1:KS:123:ASN:ND2	2.57	0.69
5:O9:194:LYS:HB3	5:O9:195:PRO:HD3	1.72	0.69
5:DA:38:TYR:CA	3:AB:202:ASN:HD21	2.04	0.69
3:AB:113:TYR:CA	2:MD:22:LYS:H	2.05	0.69
4:BC:6:MET:HE3	5:FH:38:TYR:HE2	1.56	0.69
1:AD:222:SER:C	1:KK:53:TYR:CD1	2.70	0.69
1:AD:304:GLN:HE22	1:KK:28:ASP:HA	1.56	0.69
1:BD:290:ASN:CG	1:BD:325:LYS:NZ	2.50	0.69
1:KD:53:TYR:CD1	1:IS:222:SER:C	2.70	0.69
1:KD:61:THR:HG21	1:KS:57:LYS:HE2	1.73	0.69
1:KD:153:LEU:HD12	2:LS:2:TYR:CE2	2.19	0.69
1:LD:177:ASP:OD2	1:YG:33:TRP:CZ2	2.45	0.69
1:TE:89:TYR:CE1	1:IQ:61:THR:HG22	2.27	0.69
1:UE:208:LEU:HD22	1:UE:389:ASN:HB3	1.73	0.69
1:aE:61:THR:HG22	1:AR:89:TYR:CE1	2.27	0.69
1:CG:368:GLU:HG3	1:AR:108:MET:HA	1.72	0.69
4:BI:197:SER:OG	4:BO:142:SER:OG	2.09	0.69
1:DJ:312:PRO:HD3	1:LP:27:HIS:CE1	2.26	0.69
1:LJ:105:GLU:CG	1:gL:109:LEU:O	2.40	0.69
1:LJ:369:PHE:CZ	1:AS:107:LEU:CG	2.68	0.69
1:AK:223:GLY:HA3	1:KP:53:TYR:CD2	2.27	0.69
1:DK:261:ILE:HD11	1:DK:265:ASP:OD1	1.92	0.69
2:MK:11:MET:HG3	1:KP:133:LEU:HD22	1.71	0.69
1:BL:208:LEU:HD22	1:BL:389:ASN:HB3	1.73	0.69
1:YL:367:PRO:CG	1:QR:375:TRP:CE3	2.74	0.69
1:BP:110:LYS:HZ3	1:hR:105:GLU:N	1.84	0.69
1:CQ:375:TRP:CE3	1:gR:367:PRO:CG	2.74	0.69
1:JQ:65:ASP:O	1:JQ:66:ILE:CD1	2.39	0.69
1:RQ:108:MET:HA	1:QR:368:GLU:HG3	1.72	0.69
2:UQ:39:ASP:OD1	2:UQ:39:ASP:N	2.24	0.69
1:YQ:109:LEU:O	1:KS:105:GLU:CG	2.40	0.69
1:CR:208:LEU:CD1	1:CR:391:ILE:HD11	2.15	0.69
1:AS:290:ASN:CG	1:AS:325:LYS:NZ	2.50	0.69
1:C1:375:TRP:CE3	1:Y8:367:PRO:CG	2.74	0.69
1:Q1:367:PRO:CG	1:IG:375:TRP:CE3	2.74	0.69
2:m1:11:MET:HG3	1:gR:133:LEU:CB	2.23	0.69
3:A2:112:ILE:CG1	2:MD:5:ASN:CB	2.40	0.69
1:I3:206:LEU:CD1	1:K3:244:ASP:OD1	2.39	0.69
1:J3:65:ASP:O	1:J3:66:ILE:CD1	2.39	0.69
1:I4:133:LEU:CB	2:X8:11:MET:HG3	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:169:LYS:HD2	1:I4:318:THR:HG23	1.73	0.69
1:J4:65:ASP:O	1:J4:66:ILE:CD1	2.39	0.69
1:S4:106:GLU:N	1:KS:109:LEU:CD2	2.55	0.69
1:T4:44:THR:C	1:AS:17:SER:HB3	2.17	0.69
1:a4:131:PHE:HB3	1:a4:159:LYS:HE3	1.73	0.69
1:i4:44:THR:C	1:BD:17:SER:HB3	2.17	0.69
1:C6:133:LEU:CB	2:HL:11:MET:HG3	2.22	0.69
1:C6:367:PRO:CG	1:gG:375:TRP:CE3	2.74	0.69
1:I6:133:LEU:CB	2:PL:11:MET:HG3	2.23	0.69
1:I6:367:PRO:CG	1:YR:375:TRP:CE3	2.74	0.69
1:Q6:169:LYS:HD2	1:Q6:318:THR:HG23	1.73	0.69
1:S6:49:PHE:HA	1:CS:22:LEU:HD13	1.75	0.69
1:S6:368:GLU:OE2	1:BS:107:LEU:HD23	1.92	0.69
1:Y6:152:ALA:HB2	2:PG:15:TYR:CE2	2.26	0.69
2:f6:11:MET:HG3	1:QQ:133:LEU:CB	2.23	0.69
2:f6:15:TYR:CE2	1:QQ:152:ALA:HB2	2.26	0.69
1:C7:45:MET:CB	1:CK:19:LYS:CG	2.14	0.69
1:C7:82:ILE:HD11	1:DP:142:PHE:O	1.92	0.69
1:B7:36:GLY:HA3	1:BP:119:LYS:HD2	1.75	0.69
1:K7:208:LEU:HD22	1:K7:389:ASN:HB3	1.73	0.69
2:X7:11:MET:HG3	1:Y7:133:LEU:CB	2.22	0.69
1:h7:65:ASP:O	1:h7:66:ILE:CD1	2.39	0.69
1:D8:131:PHE:HB3	1:D8:159:LYS:HE3	1.73	0.69
1:R8:65:ASP:O	1:R8:66:ILE:CD1	2.39	0.69
3:A9:32:PHE:CE1	1:AK:139:ARG:NH1	2.60	0.69
3:AB:148:ILE:CB	1:AD:146:ALA:HB2	2.14	0.69
5:DB:52:LEU:CA	3:AM:6:ARG:NH2	2.45	0.69
1:KD:49:PHE:HA	1:KS:22:LEU:HD11	1.73	0.69
1:LD:28:ASP:HB3	1:DK:304:GLN:CD	2.18	0.69
1:DE:82:ILE:CD1	1:BP:145:LEU:HD23	2.20	0.69
5:EF:57:GLU:HB3	4:BO:33:TYR:HE1	1.34	0.69
1:DG:131:PHE:HB3	1:DG:159:LYS:HE3	1.73	0.69
1:IG:169:LYS:HD2	1:IG:318:THR:HG23	1.73	0.69
1:hG:108:MET:HA	1:YR:368:GLU:HG3	1.72	0.69
1:AJ:222:SER:C	1:JS:53:TYR:CD1	2.70	0.69
1:KJ:53:TYR:CD2	1:AP:223:GLY:HA3	2.27	0.69
1:LJ:22:LEU:CD1	1:JS:49:PHE:CB	2.62	0.69
1:IL:367:PRO:CG	1:IQ:375:TRP:CE3	2.74	0.69
5:NM:231:ASN:CB	5:CO:265:LEU:CD1	2.14	0.69
1:BP:290:ASN:CG	1:BP:325:LYS:NZ	2.50	0.69
2:XQ:15:TYR:CE2	1:QR:152:ALA:HB2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aQ:11:MET:HB2	1:AS:372:VAL:HB	1.75	0.69
2:ER:39:ASP:N	2:ER:39:ASP:OD1	2.24	0.69
1:QR:169:LYS:HD2	1:QR:318:THR:HG23	1.73	0.69
1:C1:133:LEU:CB	2:P7:11:MET:HG3	2.22	0.69
1:C1:367:PRO:CG	1:bQ:375:TRP:CE3	2.74	0.69
1:T1:44:THR:O	1:BJ:17:SER:HB2	1.92	0.69
1:Y1:89:TYR:CE1	1:I6:61:THR:HG22	2.27	0.69
1:f1:367:PRO:CG	1:C3:375:TRP:CE3	2.74	0.69
3:A2:112:ILE:CB	2:MD:5:ASN:CG	2.64	0.69
2:P3:11:MET:HG3	1:IG:133:LEU:CB	2.22	0.69
1:b3:109:LEU:O	1:LD:105:GLU:CG	2.40	0.69
2:c3:39:ASP:OD1	2:c3:39:ASP:N	2.24	0.69
1:Q4:169:LYS:HD2	1:Q4:318:THR:HG23	1.73	0.69
1:T4:44:THR:O	1:AS:17:SER:HB2	1.92	0.69
1:X4:133:LEU:CB	2:hE:11:MET:HG3	2.22	0.69
1:X4:367:PRO:CG	1:CR:375:TRP:CE3	2.74	0.69
1:X4:368:GLU:HG3	1:bE:108:MET:HA	1.72	0.69
1:f4:367:PRO:CG	1:C6:375:TRP:CE3	2.74	0.69
1:g4:210:ASN:ND2	1:YG:71:ARG:NH2	2.29	0.69
4:B5:147:THR:HA	4:BN:192:THR:HA	1.72	0.69
1:D6:131:PHE:HB3	1:D6:159:LYS:HE3	1.73	0.69
1:Q6:133:LEU:HD13	2:NJ:11:MET:CB	2.20	0.69
1:g6:32:SER:C	1:LP:174:MET:HE3	2.12	0.69
1:g6:302:ASP:CB	1:DJ:29:TYR:OH	2.40	0.69
1:g6:310:THR:HB	1:DJ:27:HIS:CE1	2.26	0.69
2:n6:11:MET:HG3	1:g7:133:LEU:CB	2.22	0.69
1:C7:33:TRP:CZ2	1:LK:177:ASP:OD2	2.45	0.69
1:Q7:222:SER:HG	1:QR:53:TYR:HD1	1.38	0.69
1:Z7:89:TYR:CE1	1:IR:61:THR:HG22	2.27	0.69
1:i7:208:LEU:HD22	1:i7:389:ASN:HB3	1.73	0.69
1:J8:20:SER:HG	1:J8:21:ALA:N	1.89	0.69
1:Q8:206:LEU:CD1	1:S8:244:ASP:OD1	2.39	0.69
1:Z8:20:SER:HG	1:Z8:21:ALA:N	1.90	0.69
4:BB:251:TRP:CG	3:AM:208:LYS:HE2	2.26	0.69
3:AC:10:VAL:HG22	5:DN:44:SER:CB	2.21	0.69
3:AC:29:ARG:HH11	1:AP:135:ASN:C	1.93	0.69
1:DD:116:MET:CE	1:KS:54:LEU:HD13	2.22	0.69
1:DD:121:TYR:HD1	1:KS:36:GLY:CA	1.96	0.69
1:BE:20:SER:HG	1:BE:21:ALA:N	1.89	0.69
1:FE:32:SER:HA	1:CP:125:ILE:HD12	1.71	0.69
2:RE:11:MET:HG3	1:SE:133:LEU:CB	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TE:65:ASP:O	1:TE:66:ILE:CD1	2.39	0.69
1:CG:133:LEU:CB	2:HR:11:MET:HG3	2.23	0.69
1:CG:206:LEU:CD1	1:BG:244:ASP:OD1	2.39	0.69
1:JG:65:ASP:O	1:JG:66:ILE:CD1	2.39	0.69
1:QG:169:LYS:HD2	1:QG:318:THR:HG23	1.73	0.69
1:bG:131:PHE:HB3	1:bG:159:LYS:HE3	1.73	0.69
3:AH:202:ASN:HD22	5:DI:38:TYR:HD1	1.39	0.69
4:BI:194:ASN:HA	4:BO:144:GLN:O	1.92	0.69
5:CI:194:LYS:HB3	5:CI:195:PRO:HD3	1.72	0.69
1:AJ:223:GLY:HA3	1:JS:53:TYR:CD2	2.27	0.69
1:DJ:304:GLN:NE2	1:LP:28:ASP:HB2	1.88	0.69
1:KJ:366:ASN:O	1:AP:361:LYS:NZ	2.21	0.69
1:DP:28:ASP:O	1:hR:98:ASN:CB	2.38	0.69
2:MR:39:ASP:OD1	2:MR:39:ASP:N	2.24	0.69
1:A1:89:TYR:CE1	1:C6:61:THR:HG22	2.27	0.69
1:D1:131:PHE:HB3	1:D1:159:LYS:HE3	1.73	0.69
1:X1:61:THR:HG22	1:J6:89:TYR:CE1	2.27	0.69
2:e1:11:MET:HG3	1:CL:133:LEU:CB	2.23	0.69
1:f1:169:LYS:HD2	1:f1:318:THR:HG23	1.73	0.69
4:B2:138:THR:OG1	4:BB:201:ASN:OD1	2.08	0.69
1:K3:208:LEU:HD22	1:K3:389:ASN:HB3	1.73	0.69
1:Q3:368:GLU:HG3	1:Z8:108:MET:HA	1.72	0.69
1:b3:82:ILE:CD1	1:BD:145:LEU:HD23	2.20	0.69
2:P4:15:TYR:CE2	1:AE:152:ALA:HB2	2.26	0.69
1:X4:73:ASN:O	2:f8:25:GLU:OE1	1.93	0.69
1:Y4:65:ASP:O	1:Y4:66:ILE:CD1	2.39	0.69
1:f4:208:LEU:CD1	1:f4:391:ILE:HD11	2.15	0.69
3:A5:37:GLU:OE2	3:AI:150:TYR:N	2.20	0.69
1:g6:14:VAL:CB	1:CP:45:MET:HE2	2.02	0.69
1:g6:31:LYS:HG3	1:LP:314:GLY:O	1.91	0.69
1:i6:49:PHE:HA	1:DJ:22:LEU:HD13	1.75	0.69
1:A7:89:TYR:CE1	1:gR:61:THR:HG22	2.27	0.69
1:I7:61:THR:HG22	1:cQ:89:TYR:CE1	2.27	0.69
1:Q7:169:LYS:HD2	1:Q7:318:THR:HG23	1.73	0.69
1:S7:208:LEU:HD22	1:S7:389:ASN:HB3	1.73	0.69
5:D9:38:TYR:CA	3:AF:202:ASN:HD21	2.04	0.69
5:DA:38:TYR:HD1	3:AB:202:ASN:HD22	1.39	0.69
1:KD:53:TYR:CD2	1:IS:223:GLY:HA3	2.27	0.69
1:DE:109:LEU:O	1:LP:105:GLU:CG	2.40	0.69
2:WE:39:ASP:N	2:WE:39:ASP:OD1	2.24	0.69
1:YG:302:ASP:CB	1:DK:29:TYR:OH	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aG:143:GLN:HA	1:BK:82:ILE:HG12	1.73	0.69
1:aG:368:GLU:OE2	1:CK:107:LEU:HD23	1.92	0.69
1:hG:89:TYR:CE1	1:CL:61:THR:HG22	2.27	0.69
1:DJ:119:LYS:HZ3	1:LP:38:LYS:HG3	1.51	0.69
2:FJ:2:TYR:OH	1:LP:157:LYS:HE2	1.93	0.69
1:KJ:33:TRP:CD2	1:AP:174:MET:HB2	2.28	0.69
3:AM:114:PHE:CG	2:LS:9:SER:O	2.45	0.69
3:AM:116:VAL:C	2:LS:7:MET:CE	0.80	0.69
4:BM:144:GLN:O	4:BO:194:ASN:HA	1.92	0.69
1:CS:261:ILE:HD11	1:CS:265:ASP:OD1	1.92	0.69
1:C1:61:THR:HG22	1:A6:89:TYR:CE1	2.27	0.69
3:A2:202:ASN:HD22	5:DC:38:TYR:HD1	1.39	0.69
5:F2:51:ARG:HD3	4:BF:32:PHE:HE1	1.54	0.69
1:C3:152:ALA:HB2	2:H4:15:TYR:CE2	2.26	0.69
1:X4:71:ARG:NH2	1:Z8:210:ASN:ND2	2.29	0.69
1:g4:109:LEU:O	1:AD:105:GLU:CG	2.41	0.69
3:A5:112:ILE:CD1	2:MJ:27:ASN:CG	2.61	0.69
1:g6:82:ILE:HD11	1:DJ:142:PHE:O	1.92	0.69
1:B7:143:GLN:HA	1:BP:82:ILE:HG12	1.73	0.69
2:H7:11:MET:HG3	1:I7:133:LEU:CB	2.23	0.69
2:H8:11:MET:HG3	1:QL:133:LEU:CB	2.23	0.69
1:g8:14:VAL:CG1	1:BS:45:MET:CE	2.62	0.69
1:g8:45:MET:SD	1:BS:14:VAL:CA	2.76	0.69
2:n8:15:TYR:CE2	1:IQ:152:ALA:HB2	2.26	0.69
3:A9:202:ASN:HD21	5:DH:38:TYR:CA	2.04	0.69
4:B9:251:TRP:CG	3:AB:208:LYS:HE2	2.26	0.69
5:CA:265:LEU:CG	5:NC:231:ASN:CB	2.61	0.69
1:LD:82:ILE:HG12	1:YG:143:GLN:O	1.63	0.69
4:BF:142:SER:OG	4:BM:197:SER:OG	2.09	0.69
1:ZG:65:ASP:O	1:ZG:66:ILE:CD1	2.39	0.69
1:BJ:372:VAL:HB	2:iL:11:MET:HB2	1.75	0.69
1:KJ:49:PHE:N	1:LP:22:LEU:HD11	2.07	0.69
1:KJ:143:GLN:OE1	1:LP:57:LYS:CD	2.30	0.69
1:AK:105:GLU:CG	1:hR:109:LEU:O	2.41	0.69
1:LK:27:HIS:CE1	1:DP:312:PRO:HD3	2.26	0.69
1:AL:20:SER:HG	1:AL:21:ALA:N	1.89	0.69
1:BP:4:GLN:HE21	1:BP:4:GLN:N	1.89	0.69
1:JR:65:ASP:O	1:JR:66:ILE:CD1	2.39	0.69
1:I1:61:THR:HG22	1:JG:89:TYR:CE1	2.27	0.69
2:P1:11:MET:HG3	1:Q1:133:LEU:CB	2.23	0.69
1:R1:170:GLU:OE1	1:CJ:32:SER:OG	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:202:ASN:HD21	5:DC:38:TYR:CA	2.04	0.69
4:B2:194:ASN:HA	4:B9:144:GLN:O	1.92	0.69
4:B2:197:SER:OG	4:B9:142:SER:OG	2.10	0.69
1:I3:61:THR:HG22	1:R8:89:TYR:CE1	2.27	0.69
1:J3:89:TYR:CE1	1:Q8:61:THR:HG22	2.27	0.69
1:J3:202:PHE:HD2	1:Q8:248:SER:HG	1.38	0.69
1:Q4:367:PRO:CG	1:IL:375:TRP:CE3	2.74	0.69
1:h4:106:GLU:N	1:LD:109:LEU:CD2	2.55	0.69
4:B5:194:ASN:HA	4:BI:144:GLN:O	1.92	0.69
1:g6:33:TRP:CZ2	1:LP:177:ASP:OD2	2.45	0.69
1:C7:61:THR:HG22	1:hR:89:TYR:CE1	2.27	0.69
1:B7:50:VAL:HG23	1:DP:137:ASP:CG	2.11	0.69
1:B7:368:GLU:OE2	1:CP:107:LEU:HD23	1.92	0.69
2:k7:39:ASP:N	2:k7:39:ASP:OD1	2.24	0.69
1:g8:27:HIS:CB	1:KS:312:PRO:CD	2.50	0.69
1:i8:47:GLU:HG2	1:DD:22:LEU:HB3	1.75	0.69
4:BB:249:GLN:CB	3:AM:210:SER:HB2	2.23	0.69
4:BC:30:LEU:H	5:EN:64:TRP:HE1	1.36	0.69
5:CC:266:THR:HB	5:NH:230:SER:C	2.17	0.69
1:AD:174:MET:HB2	1:KK:33:TRP:CD2	2.28	0.69
1:CD:58:ILE:HG21	1:YG:57:LYS:HD2	1.73	0.69
1:DD:261:ILE:HD11	1:DD:265:ASP:OD1	1.93	0.69
1:SE:61:THR:HG22	1:JQ:89:TYR:CE1	2.27	0.69
5:FF:38:TYR:HE2	4:BM:6:MET:HE3	1.56	0.69
5:OI:194:LYS:HB3	5:OI:195:PRO:HD3	1.72	0.69
1:AJ:316:VAL:HG21	1:JS:32:SER:CB	2.23	0.69
1:AJ:316:VAL:HG22	1:JS:30:SER:O	1.91	0.69
1:KJ:27:HIS:CB	1:AP:312:PRO:HD3	2.21	0.69
1:LJ:28:ASP:HB3	1:CS:304:GLN:CD	2.18	0.69
1:LJ:157:LYS:HE2	2:ES:2:TYR:OH	1.93	0.69
1:LK:38:LYS:HG3	1:DP:119:LYS:HZ3	1.50	0.69
2:MK:11:MET:HE3	1:KP:372:VAL:HG21	1.68	0.69
1:IL:169:LYS:HD2	1:IL:318:THR:HG23	1.73	0.69
1:JL:202:PHE:HD2	1:YR:248:SER:HG	1.40	0.69
1:TL:131:PHE:HB3	1:TL:159:LYS:HE3	1.73	0.69
1:CQ:133:LEU:CB	2:iQ:11:MET:HG3	2.23	0.69
1:R1:89:TYR:CE1	1:Q6:61:THR:HG22	2.27	0.69
1:T1:131:PHE:HB3	1:T1:159:LYS:HE3	1.73	0.69
1:f1:375:TRP:CE3	1:QG:367:PRO:CG	2.74	0.69
1:g1:202:PHE:HD2	1:CQ:248:SER:HG	1.40	0.69
1:A3:89:TYR:CE1	1:g7:61:THR:HG22	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J4:89:TYR:CE1	1:C8:61:THR:HG22	2.27	0.69
1:Q4:133:LEU:CB	2:fR:11:MET:HG3	2.22	0.69
1:Q4:368:GLU:HG3	1:ZR:108:MET:HA	1.72	0.69
1:R4:98:ASN:CB	1:DD:28:ASP:O	2.38	0.69
1:X4:152:ALA:HB2	2:hE:15:TYR:CE2	2.26	0.69
1:Y4:97:ILE:CD1	1:Y8:304:GLN:HG3	2.23	0.69
1:f4:304:GLN:HG3	1:ZG:97:ILE:CD1	2.23	0.69
1:Q6:32:SER:C	1:LJ:174:MET:HE3	2.12	0.69
1:S6:143:GLN:HA	1:AS:82:ILE:HG12	1.73	0.69
1:Z6:89:TYR:CE1	1:KE:61:THR:HG22	2.27	0.69
1:g6:169:LYS:HD2	1:g6:318:THR:HG23	1.73	0.69
1:i6:143:GLN:HA	1:BJ:82:ILE:HG12	1.73	0.69
1:B7:49:PHE:HA	1:DP:22:LEU:HD13	1.75	0.69
1:B7:136:ASN:HA	1:BP:81:PHE:HZ	1.55	0.69
1:Q7:304:GLN:HG3	1:RQ:97:ILE:CD1	2.23	0.69
1:R7:89:TYR:CE1	1:QQ:61:THR:HG22	2.27	0.69
1:R7:97:ILE:CD1	1:QQ:304:GLN:HG3	2.23	0.69
1:S8:208:LEU:HD22	1:S8:389:ASN:HB3	1.73	0.69
1:j8:131:PHE:HB3	1:j8:159:LYS:HE3	1.73	0.69
3:A9:104:GLN:CB	1:KK:78:GLU:OE2	2.40	0.69
4:B9:249:GLN:CB	3:AB:210:SER:HB2	2.23	0.69
3:AA:210:SER:HB2	4:BH:249:GLN:CB	2.23	0.69
5:CA:266:THR:HB	5:NC:230:SER:C	2.17	0.69
5:FB:51:ARG:HD3	4:BM:32:PHE:HE1	1.54	0.69
1:AD:223:GLY:HA3	1:KK:53:TYR:CD2	2.27	0.69
1:DD:375:TRP:HE3	1:KS:367:PRO:HG2	1.47	0.69
2:GD:26:LEU:HD12	1:KD:70:ASN:H	1.57	0.69
1:KE:169:LYS:HD2	1:KE:318:THR:HG23	1.73	0.69
1:TE:89:TYR:CE2	1:IQ:63:LEU:CD1	2.76	0.69
1:aE:133:LEU:CB	2:XG:11:MET:HG3	2.22	0.69
1:bE:89:TYR:CE1	1:CR:61:THR:HG22	2.27	0.69
2:eE:39:ASP:OD1	2:eE:39:ASP:N	2.24	0.69
4:BF:144:GLN:O	4:BM:194:ASN:HA	1.92	0.69
5:NF:230:SER:C	5:CM:266:THR:HB	2.17	0.69
1:QG:368:GLU:HG3	1:AQ:108:MET:HA	1.72	0.69
2:nG:11:MET:HG3	1:YR:133:LEU:CB	2.23	0.69
3:AI:32:PHE:HE2	1:IS:54:LEU:CA	2.04	0.69
5:FI:31:PHE:CZ	5:FO:46:TYR:CB	2.61	0.69
5:CI:265:LEU:CG	5:NO:231:ASN:CB	2.61	0.69
1:AJ:43:ASN:C	5:DN:25:ARG:HH12	1.90	0.69
1:DJ:304:GLN:CD	1:LP:28:ASP:HB3	2.18	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:22:LEU:HD11	1:JS:49:PHE:HA	1.73	0.69
1:LJ:29:TYR:C	1:AS:98:ASN:HD21	1.97	0.69
1:LK:35:PHE:CE1	1:DP:384:ILE:CD1	2.71	0.69
1:TQ:131:PHE:HB3	1:TQ:159:LYS:HE3	1.73	0.69
1:DR:131:PHE:HB3	1:DR:159:LYS:HE3	1.73	0.69
1:LR:131:PHE:HB3	1:LR:159:LYS:HE3	1.73	0.69
1:BS:265:ASP:OD2	2:DS:41:TYR:CE1	2.40	0.69
1:I1:133:LEU:CB	2:PQ:11:MET:HG3	2.22	0.69
1:K1:208:LEU:HD22	1:K1:389:ASN:HB3	1.73	0.69
1:Q1:73:ASN:O	2:X6:25:GLU:OE1	1.93	0.69
1:X1:82:ILE:CD1	1:IR:142:PHE:O	2.41	0.69
1:X1:304:GLN:HG3	1:J6:97:ILE:CD1	2.23	0.69
1:Y1:202:PHE:HD2	1:I6:248:SER:HG	1.41	0.69
3:A2:37:GLU:OE2	3:A9:150:TYR:N	2.20	0.69
3:A2:311:ILE:HD12	3:A9:258:LYS:HE2	1.74	0.69
4:B2:144:GLN:O	4:BB:194:ASN:HA	1.92	0.69
1:C3:53:TYR:HD1	1:QG:222:SER:HG	1.34	0.69
1:C3:63:LEU:CD1	1:h7:89:TYR:CE2	2.76	0.69
1:C3:133:LEU:CB	2:H4:11:MET:HG3	2.22	0.69
1:I3:133:LEU:CB	2:XR:11:MET:HG3	2.22	0.69
1:Q3:133:LEU:CB	2:f8:11:MET:HG3	2.22	0.69
1:R3:97:ILE:CD1	1:I8:304:GLN:HG3	2.23	0.69
1:Y3:109:LEU:O	1:LK:105:GLU:CG	2.40	0.69
1:b3:131:PHE:HB3	1:b3:159:LYS:HE3	1.73	0.69
1:D4:131:PHE:HB3	1:D4:159:LYS:HE3	1.73	0.69
1:f4:82:ILE:CD1	1:gG:142:PHE:O	2.41	0.69
1:f4:248:SER:HG	1:ZG:202:PHE:HD2	1.40	0.69
1:g4:97:ILE:CD1	1:YG:304:GLN:HG3	2.23	0.69
1:i4:44:THR:O	1:BD:17:SER:HB2	1.92	0.69
3:A5:202:ASN:HD22	5:DM:38:TYR:HD1	1.39	0.69
4:B5:6:MET:HE3	5:FI:38:TYR:HE2	1.56	0.69
4:B5:144:GLN:O	4:BN:194:ASN:HA	1.92	0.69
5:D5:24:THR:HA	3:AH:6:ARG:C	2.18	0.69
5:C5:266:THR:HB	5:NI:230:SER:C	2.17	0.69
5:N5:231:ASN:CB	5:CN:265:LEU:CD2	2.71	0.69
1:C6:152:ALA:HB2	2:HL:15:TYR:CE2	2.26	0.69
1:S6:47:GLU:HG2	1:CS:22:LEU:HB3	1.75	0.69
1:S6:57:LYS:HD2	1:CS:143:GLN:CG	2.19	0.69
2:X6:11:MET:HG3	1:Q8:133:LEU:CB	2.22	0.69
1:Y6:304:GLN:HG3	1:LE:97:ILE:CD1	2.23	0.69
2:f6:25:GLU:OE1	1:KE:73:ASN:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:61:THR:HG22	1:BE:89:TYR:CE1	2.27	0.69
1:h6:97:ILE:CD1	1:AE:304:GLN:HG3	2.23	0.69
1:C7:31:LYS:HG3	1:LK:314:GLY:O	1.91	0.69
1:C7:45:MET:SD	1:CK:14:VAL:CA	2.76	0.69
1:C7:57:LYS:HD2	1:CK:58:ILE:HG21	1.73	0.69
1:C7:304:GLN:HG3	1:hR:97:ILE:CD1	2.23	0.69
1:A7:89:TYR:CE2	1:gR:63:LEU:CD1	2.76	0.69
1:J7:65:ASP:O	1:J7:66:ILE:CD1	2.39	0.69
1:Y7:304:GLN:HG3	1:JR:97:ILE:CD1	2.23	0.69
1:Z7:97:ILE:CD1	1:IR:304:GLN:HG3	2.23	0.69
1:B8:208:LEU:HD22	1:B8:389:ASN:HB3	1.73	0.69
1:Q8:302:ASP:CG	1:IG:29:TYR:HH	1.96	0.69
1:g8:13:LEU:C	1:BS:45:MET:HE3	2.10	0.69
1:g8:302:ASP:CB	1:DD:29:TYR:OH	2.40	0.69
1:i8:368:GLU:OE2	1:CD:107:LEU:HD23	1.92	0.69
5:E9:64:TRP:HE1	4:BB:30:LEU:H	1.36	0.69
5:N9:194:LYS:HB3	5:N9:195:PRO:HD3	1.72	0.69
3:AA:6:ARG:HH22	5:DH:52:LEU:CA	1.97	0.69
4:BC:194:ASN:HA	4:BH:144:GLN:O	1.92	0.69
1:AD:144:THR:CG2	3:AF:36:LEU:HD13	2.22	0.69
1:DD:304:GLN:CD	1:KS:28:ASP:HB3	2.18	0.69
1:KD:105:GLU:HG2	1:DK:110:LYS:C	1.92	0.69
1:FE:44:THR:O	1:BP:17:SER:HB2	1.92	0.69
1:FE:44:THR:C	1:BP:17:SER:HB3	2.17	0.69
1:KE:133:LEU:CB	2:PR:11:MET:HG3	2.22	0.69
1:NE:131:PHE:HB3	1:NE:159:LYS:HE3	1.73	0.69
1:aE:304:GLN:HG3	1:AR:97:ILE:CD1	2.23	0.69
1:CG:169:LYS:HD2	1:CG:318:THR:HG23	1.73	0.69
1:QG:133:LEU:CB	2:HQ:11:MET:HG3	2.22	0.69
1:YG:81:PHE:HD2	1:DK:139:ARG:HD3	1.46	0.69
1:aG:57:LYS:CE	1:DK:143:GLN:CD	2.50	0.69
3:AH:311:ILE:HD12	3:AN:258:LYS:HE2	1.74	0.69
1:KJ:28:ASP:OD2	1:AP:305:SER:HB2	1.88	0.69
1:KJ:355:TYR:HB3	1:KJ:379:TYR:HB3	1.75	0.69
1:LJ:22:LEU:HD11	1:JS:49:PHE:N	2.07	0.69
1:LJ:47:GLU:CB	1:JS:20:SER:HB2	2.17	0.69
1:AK:316:VAL:HG21	1:KP:32:SER:CB	2.23	0.69
1:BK:166:LEU:HG	1:CK:96:PRO:HD2	1.73	0.69
1:LK:108:MET:HE1	1:jR:366:ASN:CA	2.14	0.69
2:EL:39:ASP:OD1	2:EL:39:ASP:N	2.24	0.69
1:aL:208:LEU:HD22	1:aL:389:ASN:HB3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EN:140:ASP:HB3	5:CN:139:LYS:HB2	1.62	0.69
1:KP:193:SER:HB3	7:OP:9:ALA:HB2	1.73	0.69
1:CR:169:LYS:HD2	1:CR:318:THR:HG23	1.73	0.69
1:JR:20:SER:HG	1:JR:21:ALA:N	1.89	0.69
1:JS:193:SER:HB3	7:NS:9:ALA:HB2	1.73	0.69
1:C1:152:ALA:HB2	2:P7:15:TYR:CE2	2.26	0.69
1:Q1:208:LEU:CD1	1:Q1:391:ILE:HD12	1.95	0.69
1:Y1:20:SER:HG	1:Y1:21:ALA:N	1.90	0.69
1:Y1:65:ASP:O	1:Y1:66:ILE:CD1	2.39	0.69
1:Y1:89:TYR:CE2	1:I6:63:LEU:CD1	2.76	0.69
1:Y1:97:ILE:CD1	1:I6:304:GLN:HG3	2.23	0.69
1:A3:203:GLU:HB3	1:g7:248:SER:CB	2.23	0.69
2:H3:11:MET:HG3	1:C8:133:LEU:CB	2.22	0.69
1:Q3:304:GLN:HG3	1:J8:97:ILE:CD1	2.23	0.69
1:X4:304:GLN:HG3	1:Z8:97:ILE:CD1	2.23	0.69
1:Y4:89:TYR:CE1	1:Y8:61:THR:HG22	2.27	0.69
1:f4:61:THR:HG22	1:ZG:89:TYR:CE1	2.27	0.69
1:Q6:302:ASP:CB	1:CS:29:TYR:OH	2.40	0.69
2:c6:39:ASP:OD1	2:c6:39:ASP:N	2.24	0.69
1:A7:202:PHE:HD2	1:gR:248:SER:HG	1.41	0.69
1:I7:304:GLN:HG3	1:cQ:97:ILE:CD1	2.23	0.69
2:M7:39:ASP:OD1	2:M7:39:ASP:N	2.24	0.69
1:Z7:203:GLU:HB3	1:IR:248:SER:CB	2.23	0.69
2:f7:11:MET:HG3	1:I8:133:LEU:CB	2.22	0.69
1:Y8:82:ILE:CD1	1:bQ:142:PHE:O	2.41	0.69
3:AB:112:ILE:C	2:MD:22:LYS:HA	2.17	0.69
1:AD:145:LEU:CB	3:AF:37:GLU:HB2	2.22	0.69
1:DD:382:LYS:O	1:KS:34:THR:CG2	2.41	0.69
1:KD:49:PHE:N	1:KS:22:LEU:HD11	2.07	0.69
1:SE:169:LYS:HD2	1:SE:318:THR:HG23	1.73	0.69
1:SE:248:SER:CB	1:JQ:203:GLU:HB3	2.23	0.69
1:AG:20:SER:HG	1:AG:21:ALA:N	1.90	0.69
2:UG:39:ASP:OD1	2:UG:39:ASP:N	2.24	0.69
1:hG:97:ILE:CD1	1:CL:304:GLN:HG3	2.23	0.69
4:BI:249:GLN:CB	3:AN:210:SER:HB2	2.23	0.69
1:LJ:34:THR:CG2	1:CS:382:LYS:O	2.41	0.69
1:CK:355:TYR:HB3	1:CK:379:TYR:HB3	1.74	0.69
1:LK:157:LYS:HZ3	2:FP:2:TYR:HE2	1.39	0.69
1:QL:73:ASN:O	2:XR:25:GLU:OE1	1.93	0.69
1:QL:304:GLN:HG3	1:RR:97:ILE:CD1	2.23	0.69
1:jR:325:LYS:HB2	1:jR:325:LYS:HZ2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J1:89:TYR:CE1	1:IG:61:THR:HG22	2.27	0.69
1:J1:202:PHE:HD2	1:IG:248:SER:HG	1.40	0.69
1:Q1:304:GLN:HG3	1:R6:97:ILE:CD1	2.23	0.69
4:B2:6:MET:HE3	5:F9:38:TYR:HE2	1.56	0.69
1:C3:248:SER:CB	1:h7:203:GLU:HB3	2.23	0.69
1:D3:325:LYS:HB2	1:D3:325:LYS:HZ2	1.57	0.69
1:Q3:73:ASN:O	2:P8:25:GLU:OE1	1.93	0.69
1:C4:304:GLN:HG3	1:RG:97:ILE:CD1	2.23	0.69
1:J4:20:SER:HG	1:J4:21:ALA:N	1.91	0.69
1:Q4:80:ASP:OD2	1:IQ:145:LEU:CD1	2.42	0.69
1:R4:97:ILE:CD1	1:g8:304:GLN:HG3	2.23	0.69
1:g4:123:ASN:HD21	1:CD:21:ALA:CA	2.06	0.69
2:l4:25:GLU:OE1	1:YG:73:ASN:O	1.93	0.69
3:A5:155:GLU:CG	1:AJ:139:ARG:HB2	2.22	0.69
5:F5:37:ASP:OD1	4:BN:14:SER:OG	2.11	0.69
1:g6:248:SER:CB	1:BE:203:GLU:HB3	2.23	0.69
1:j6:131:PHE:HB3	1:j6:159:LYS:HE3	1.73	0.69
1:A7:65:ASP:O	1:A7:66:ILE:CD1	2.39	0.69
1:A7:97:ILE:CD1	1:gR:304:GLN:HG3	2.23	0.69
1:g7:169:LYS:HD2	1:g7:318:THR:HG23	1.73	0.69
1:A8:65:ASP:O	1:A8:66:ILE:CD1	2.39	0.69
1:I8:145:LEU:CD1	1:IR:80:ASP:OD2	2.42	0.69
1:i8:36:GLY:HA3	1:BD:119:LYS:HD2	1.75	0.69
1:j8:325:LYS:HB2	1:j8:325:LYS:HZ2	1.58	0.69
2:n8:11:MET:HG3	1:IQ:133:LEU:CB	2.22	0.69
5:EC:140:ASP:HB3	5:CC:139:LYS:CD	2.14	0.69
1:KD:80:ASP:CB	3:AF:65:ASN:CG	2.66	0.69
1:KD:355:TYR:HB3	1:KD:379:TYR:HB3	1.75	0.69
1:KE:80:ASP:OD2	1:QQ:145:LEU:CD1	2.42	0.69
1:RG:65:ASP:O	1:RG:66:ILE:CD1	2.39	0.69
1:hG:65:ASP:O	1:hG:66:ILE:CD1	2.39	0.69
1:BJ:145:LEU:HD23	1:gL:82:ILE:CD1	2.20	0.69
1:KJ:20:SER:HB2	1:LP:47:GLU:CB	2.17	0.69
1:KJ:78:GLU:CD	3:AN:81:LEU:HD21	2.17	0.69
1:AL:65:ASP:O	1:AL:66:ILE:CD1	2.39	0.69
3:AM:258:LYS:HE2	3:AO:311:ILE:HD12	1.74	0.69
1:AQ:64:ILE:HG13	2:FQ:53:PHE:HD2	1.58	0.69
1:LQ:325:LYS:HB2	1:LQ:325:LYS:HZ2	1.57	0.69
2:H1:11:MET:HG3	1:f4:133:LEU:CB	2.22	0.68
1:J1:203:GLU:HB3	1:IG:248:SER:CB	2.23	0.68
1:Q1:37:ASP:OD1	1:IG:120:LEU:HB3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W1:3:GLU:O	1:CS:153:LEU:HD21	1.91	0.68
1:f1:133:LEU:CB	2:n7:11:MET:HG3	2.23	0.68
1:f1:248:SER:CB	1:AQ:203:GLU:HB3	2.23	0.68
4:B2:192:THR:HA	4:B9:147:THR:HA	1.72	0.68
5:C2:265:LEU:CD2	5:N9:231:ASN:CB	2.71	0.68
1:C3:37:ASP:OD1	1:QG:120:LEU:HB3	1.94	0.68
1:C3:145:LEU:CD1	1:QG:80:ASP:OD2	2.42	0.68
1:C4:145:LEU:CD1	1:CG:80:ASP:OD2	2.42	0.68
1:I4:120:LEU:HB3	1:QL:37:ASP:OD1	1.94	0.68
1:I4:248:SER:CB	1:A8:203:GLU:HB3	2.23	0.68
1:I4:248:SER:HG	1:A8:202:PHE:HD2	1.40	0.68
1:I4:304:GLN:HG3	1:A8:97:ILE:CD1	2.23	0.68
1:h4:208:LEU:HD22	1:h4:389:ASN:HB3	1.73	0.68
1:Q6:29:TYR:HD2	1:LJ:317:PHE:HE1	1.01	0.68
1:T6:325:LYS:HB2	1:T6:325:LYS:HZ2	1.55	0.68
1:Z6:203:GLU:HB3	1:KE:248:SER:CB	2.23	0.68
1:h6:89:TYR:CE1	1:AE:61:THR:HG22	2.27	0.68
1:A7:203:GLU:HB3	1:gR:248:SER:CB	2.23	0.68
1:I7:120:LEU:HB3	1:CQ:37:ASP:OD1	1.94	0.68
1:Q7:133:LEU:CB	2:HG:11:MET:HG3	2.23	0.68
3:AA:6:ARG:C	5:DH:24:THR:HA	2.18	0.68
4:BA:192:THR:HB	4:BC:147:THR:HG22	1.73	0.68
1:DD:384:ILE:CD1	1:KS:35:PHE:CE1	2.71	0.68
1:TE:97:ILE:CD1	1:IQ:304:GLN:HG3	2.23	0.68
1:TE:203:GLU:HB3	1:IQ:248:SER:CB	2.23	0.68
1:CG:61:THR:HG22	1:ZL:89:TYR:CE1	2.27	0.68
1:AJ:96:PRO:HD2	1:LJ:166:LEU:HD13	1.76	0.68
1:LJ:369:PHE:CE1	1:AS:107:LEU:CD1	2.76	0.68
1:CK:38:LYS:HG2	1:hR:119:LYS:HE2	1.75	0.68
1:CL:120:LEU:HB3	1:YR:37:ASP:OD1	1.94	0.68
1:cQ:20:SER:HG	1:cQ:21:ALA:N	1.90	0.68
1:ZR:64:ILE:HG13	2:dR:53:PHE:HD2	1.58	0.68
1:C1:248:SER:CB	1:A6:203:GLU:HB3	2.23	0.68
1:A1:203:GLU:HB3	1:C6:248:SER:CB	2.23	0.68
1:I1:120:LEU:HB3	1:Y6:37:ASP:OD1	1.94	0.68
1:J1:65:ASP:O	1:J1:66:ILE:CD1	2.39	0.68
1:J1:97:ILE:CD1	1:IG:304:GLN:HG3	2.23	0.68
1:X1:120:LEU:HB3	1:IR:37:ASP:OD1	1.93	0.68
1:X1:248:SER:CB	1:J6:203:GLU:HB3	2.23	0.68
1:Y1:203:GLU:HB3	1:I6:248:SER:CB	2.23	0.68
1:g1:203:GLU:HB3	1:CQ:248:SER:CB	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C3:71:ARG:NH2	1:h7:210:ASN:ND2	2.29	0.68
1:C3:304:GLN:HG3	1:h7:97:ILE:CD1	2.23	0.68
1:Q3:120:LEU:HB3	1:CR:37:ASP:OD1	1.94	0.68
1:R3:203:GLU:HB3	1:I8:248:SER:CB	2.23	0.68
1:C4:37:ASP:OD1	1:CG:120:LEU:HB3	1.93	0.68
1:I4:61:THR:HG22	1:A8:89:TYR:CE1	2.27	0.68
1:I4:63:LEU:CD1	1:A8:89:TYR:CE2	2.76	0.68
1:Q4:37:ASP:OD1	1:IL:120:LEU:HB3	1.93	0.68
1:Q4:120:LEU:HB3	1:IQ:37:ASP:OD1	1.94	0.68
1:R4:65:ASP:O	1:R4:66:ILE:CD1	2.39	0.68
4:B5:249:GLN:CB	3:AH:210:SER:HB2	2.23	0.68
1:Q6:30:SER:HA	1:LJ:315:ALA:CA	2.24	0.68
1:Z6:97:ILE:CD1	1:KE:304:GLN:HG3	2.23	0.68
1:i6:36:GLY:HA3	1:BJ:119:LYS:HD2	1.75	0.68
1:C7:45:MET:HB3	1:CK:19:LYS:HG2	1.66	0.68
1:C7:248:SER:CB	1:hR:203:GLU:HB3	2.23	0.68
1:I7:29:TYR:HH	1:gR:302:ASP:CG	1.99	0.68
1:Q7:73:ASN:O	2:XQ:25:GLU:OE1	1.93	0.68
1:Y7:80:ASP:OD2	1:KE:145:LEU:CD1	2.42	0.68
1:C8:120:LEU:HB3	1:AE:37:ASP:OD1	1.94	0.68
5:C9:265:LEU:CD2	5:NA:231:ASN:CB	2.71	0.68
5:DB:38:TYR:HD1	3:AO:202:ASN:HD22	1.39	0.68
5:EB:66:TYR:HB2	5:EF:10:TYR:HH	1.58	0.68
1:TE:202:PHE:HD2	1:IQ:248:SER:HG	1.41	0.68
2:ZE:11:MET:HG3	1:IL:133:LEU:CB	2.23	0.68
5:FF:37:ASP:OD1	4:BM:14:SER:OG	2.11	0.68
1:RG:64:ILE:HG13	2:VG:53:PHE:HD2	1.58	0.68
1:YG:82:ILE:HD11	1:DK:142:PHE:O	1.92	0.68
3:AI:32:PHE:CZ	1:IS:54:LEU:CA	2.76	0.68
1:KJ:61:THR:CG2	1:LP:57:LYS:HE3	2.05	0.68
1:IL:248:SER:CB	1:ZR:203:GLU:HB3	2.23	0.68
1:QL:61:THR:HG22	1:RR:89:TYR:CE1	2.27	0.68
2:GP:26:LEU:HD12	1:KP:70:ASN:H	1.57	0.68
1:cQ:64:ILE:HG13	2:gQ:53:PHE:HD2	1.58	0.68
1:A1:64:ILE:HG13	2:F1:53:PHE:HD2	1.58	0.68
1:I1:248:SER:CB	1:JG:203:GLU:HB3	2.23	0.68
1:Q1:61:THR:HG22	1:R6:89:TYR:CE1	2.27	0.68
1:f1:120:LEU:HB3	1:QG:37:ASP:OD1	1.93	0.68
1:g1:89:TYR:CE1	1:CQ:61:THR:HG22	2.27	0.68
3:A2:258:LYS:HE2	3:AB:311:ILE:HD12	1.74	0.68
1:C3:248:SER:HG	1:h7:202:PHE:HD2	1.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:80:ASP:OD2	1:I4:145:LEU:CD1	2.42	0.68
1:Q3:80:ASP:OD2	1:CR:145:LEU:CD1	2.42	0.68
1:R3:65:ASP:O	1:R3:66:ILE:CD1	2.39	0.68
1:R4:64:ILE:HG13	2:U4:53:PHE:HD2	1.58	0.68
2:W4:11:MET:HE3	1:DD:372:VAL:HG21	1.73	0.68
2:e4:11:MET:HG3	1:bQ:133:LEU:CB	2.23	0.68
1:A6:64:ILE:HG13	2:F6:53:PHE:HD2	1.58	0.68
2:H6:11:MET:HG3	1:Y8:133:LEU:CB	2.22	0.68
1:I6:302:ASP:CG	1:CL:29:TYR:HH	1.99	0.68
2:M6:39:ASP:OD1	2:M6:39:ASP:N	2.24	0.68
1:Q6:33:TRP:CZ2	1:LJ:177:ASP:OD2	2.45	0.68
1:Y6:61:THR:HG22	1:LE:89:TYR:CE1	2.27	0.68
1:Y6:248:SER:CB	1:LE:203:GLU:HB3	2.23	0.68
1:g6:304:GLN:HG3	1:BE:97:ILE:CD1	2.23	0.68
1:C7:367:PRO:CB	1:LK:375:TRP:CD2	2.76	0.68
1:A7:20:SER:HG	1:A7:21:ALA:N	1.90	0.68
1:L7:131:PHE:HB3	1:L7:159:LYS:HE3	1.73	0.68
1:Q7:61:THR:HG22	1:RQ:89:TYR:CE1	2.27	0.68
1:Y7:37:ASP:OD1	1:QQ:120:LEU:HB3	1.93	0.68
1:Y7:73:ASN:O	2:PR:25:GLU:OE1	1.93	0.68
1:Y7:248:SER:CB	1:JR:203:GLU:HB3	2.23	0.68
1:a8:208:LEU:HD22	1:a8:389:ASN:HB3	1.73	0.68
3:A9:154:ILE:CG1	1:AK:145:LEU:HD11	1.90	0.68
3:AA:37:GLU:OE2	3:AC:150:TYR:N	2.20	0.68
4:BA:194:ASN:HA	4:BC:144:GLN:O	1.92	0.68
1:DD:316:VAL:HG12	1:KS:31:LYS:CD	2.04	0.68
2:FD:2:TYR:OH	1:KS:157:LYS:HE2	1.93	0.68
1:CG:248:SER:CB	1:ZL:203:GLU:HB3	2.23	0.68
1:CG:304:GLN:HG3	1:ZL:97:ILE:CD1	2.23	0.68
1:AG:65:ASP:O	1:AG:66:ILE:CD1	2.39	0.68
1:AG:89:TYR:CE1	1:YL:61:THR:HG22	2.27	0.68
1:AG:203:GLU:HB3	1:YL:248:SER:CB	2.23	0.68
1:aG:36:GLY:HA3	1:BK:119:LYS:HD2	1.75	0.68
1:gG:73:ASN:O	2:HL:25:GLU:OE1	1.93	0.68
1:hG:64:ILE:HG13	2:lG:53:PHE:HD2	1.58	0.68
1:AJ:62:LEU:CG	1:KJ:88:GLU:HB3	2.22	0.68
1:BJ:107:LEU:CD1	1:LP:369:PHE:CE1	2.76	0.68
1:KJ:55:PHE:HE2	1:LP:58:ILE:CG2	1.75	0.68
1:AK:174:MET:HB2	1:KP:33:TRP:CD2	2.28	0.68
1:LK:34:THR:CG2	1:DP:382:LYS:O	2.41	0.68
1:IL:304:GLN:HG3	1:ZR:97:ILE:CD1	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JL:203:GLU:HB3	1:YR:248:SER:CB	2.23	0.68
1:YL:37:ASP:OD1	1:QR:120:LEU:HB3	1.94	0.68
1:cQ:65:ASP:O	1:cQ:66:ILE:CD1	2.39	0.68
1:J1:89:TYR:CE2	1:IG:63:LEU:CD1	2.76	0.68
1:Q1:248:SER:CB	1:R6:203:GLU:HB3	2.23	0.68
1:a1:131:PHE:HB3	1:a1:159:LYS:HE3	1.73	0.68
1:f1:304:GLN:HG3	1:AQ:97:ILE:CD1	2.23	0.68
1:C4:133:LEU:CB	2:fL:11:MET:HG3	2.22	0.68
1:A4:203:GLU:HB3	1:QG:248:SER:CB	2.23	0.68
1:Q4:248:SER:CB	1:h8:203:GLU:HB3	2.23	0.68
1:X4:61:THR:HG22	1:Z8:89:TYR:CE1	2.27	0.68
1:g4:89:TYR:CE1	1:YG:61:THR:HG22	2.27	0.68
3:A5:155:GLU:C	1:AJ:139:ARG:CZ	2.45	0.68
2:P6:11:MET:HG3	1:IR:133:LEU:CB	2.22	0.68
1:h6:203:GLU:HB3	1:AE:248:SER:CB	2.23	0.68
1:Q7:145:LEU:CD1	1:YL:80:ASP:OD2	2.42	0.68
1:Q8:80:ASP:OD2	1:IG:145:LEU:CD1	2.42	0.68
3:A9:311:ILE:HD12	3:AA:258:LYS:HE2	1.74	0.68
5:CA:265:LEU:CD2	5:NC:231:ASN:CB	2.71	0.68
1:BD:107:LEU:CD1	1:KS:369:PHE:CE1	2.76	0.68
1:KD:32:SER:CB	1:IS:316:VAL:HG21	2.23	0.68
1:AG:97:ILE:CD1	1:YL:304:GLN:HG3	2.23	0.68
2:fG:11:MET:HG3	1:gG:133:LEU:CB	2.23	0.68
3:AI:29:ARG:HH12	1:IS:58:ILE:HG13	1.54	0.68
1:AJ:174:MET:HB2	1:JS:33:TRP:CD2	2.27	0.68
1:BJ:133:LEU:HB3	2:iL:11:MET:CG	2.16	0.68
1:DJ:382:LYS:O	1:LP:34:THR:CG2	2.41	0.68
1:LJ:25:PHE:CE1	1:CS:126:VAL:HG12	1.93	0.68
1:AK:126:VAL:HG21	1:KP:136:ASN:HB2	1.76	0.68
1:LK:369:PHE:CE1	1:BP:107:LEU:CD1	2.76	0.68
1:QL:208:LEU:CD1	1:QL:391:ILE:HD12	1.95	0.68
2:UL:39:ASP:N	2:UL:39:ASP:OD1	2.24	0.68
4:BM:142:SER:OG	4:BO:197:SER:OG	2.10	0.68
3:AO:29:ARG:HH22	1:IS:370:ASP:CG	2.02	0.68
5:EO:140:ASP:HB3	5:CO:139:LYS:CD	2.14	0.68
1:AR:65:ASP:O	1:AR:66:ILE:CD1	2.39	0.68
1:BR:208:LEU:HD22	1:BR:389:ASN:HB3	1.73	0.68
2:M1:39:ASP:OD1	2:M1:39:ASP:N	2.24	0.68
1:X1:133:LEU:CB	2:X3:11:MET:HG3	2.23	0.68
1:f1:145:LEU:CD1	1:C3:80:ASP:OD2	2.42	0.68
1:f1:248:SER:HG	1:AQ:202:PHE:HD2	1.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:108:THR:HB	2:MD:7:MET:CE	2.21	0.68
1:I3:248:SER:CB	1:R8:203:GLU:HB3	2.23	0.68
1:C4:73:ASN:O	2:XG:25:GLU:OE1	1.93	0.68
1:A4:89:TYR:CE1	1:QG:61:THR:HG22	2.27	0.68
1:A4:202:PHE:HD2	1:QG:248:SER:HG	1.41	0.68
1:J4:203:GLU:HB3	1:C8:248:SER:CB	2.23	0.68
2:P4:25:GLU:OE1	1:C8:73:ASN:O	1.93	0.68
1:Q4:61:THR:HG22	1:h8:89:TYR:CE1	2.27	0.68
1:S6:368:GLU:OE2	1:BS:107:LEU:HD21	1.94	0.68
1:Z6:202:PHE:HD2	1:KE:248:SER:HG	1.40	0.68
1:g6:30:SER:HA	1:LP:315:ALA:CA	2.24	0.68
1:g6:248:SER:HG	1:BE:202:PHE:HD2	1.40	0.68
1:h6:64:ILE:HG13	2:l6:53:PHE:HD2	1.58	0.68
1:Q7:37:ASP:OD1	1:YL:120:LEU:HB3	1.94	0.68
1:Q7:120:LEU:HB3	1:QR:37:ASP:OD1	1.94	0.68
1:Q7:208:LEU:CD1	1:Q7:391:ILE:HD12	1.95	0.68
1:AD:62:LEU:HD23	1:KD:88:GLU:HB3	1.76	0.68
1:BE:119:LYS:HE2	1:CP:38:LYS:HG2	1.75	0.68
1:KE:120:LEU:HB3	1:QQ:37:ASP:OD1	1.94	0.68
1:aE:248:SER:CB	1:AR:203:GLU:HB3	2.23	0.68
5:DF:38:TYR:HD1	3:AI:202:ASN:HD22	1.39	0.68
1:gG:248:SER:HG	1:AL:202:PHE:HD2	1.41	0.68
1:hG:20:SER:HG	1:hG:21:ALA:N	1.90	0.68
3:AH:150:TYR:CD1	1:AP:145:LEU:HD12	2.29	0.68
4:BH:197:SER:OG	4:BN:142:SER:OG	2.10	0.68
1:AJ:170:GLU:CD	1:JS:32:SER:HB3	2.18	0.68
1:DJ:261:ILE:HD11	1:DJ:265:ASP:OD1	1.92	0.68
1:DJ:304:GLN:HE22	1:LP:28:ASP:HA	1.59	0.68
1:DJ:375:TRP:CD2	1:LP:368:GLU:N	2.53	0.68
1:AK:312:PRO:HD3	1:KP:27:HIS:CB	2.20	0.68
1:BK:4:GLN:N	1:BK:4:GLN:HE21	1.89	0.68
1:CK:21:ALA:CA	1:hR:123:ASN:HD21	2.06	0.68
1:LK:21:ALA:CA	1:DP:123:ASN:HD21	2.07	0.68
2:NK:10:MET:HA	2:NK:14:SER:HB2	1.76	0.68
1:DL:131:PHE:HB3	1:DL:159:LYS:HE3	1.73	0.68
1:JL:89:TYR:CE1	1:YR:61:THR:HG22	2.27	0.68
1:JL:97:ILE:CD1	1:YR:304:GLN:HG3	2.23	0.68
1:QL:248:SER:CB	1:RR:203:GLU:HB3	2.23	0.68
1:RL:97:ILE:CD1	1:QR:304:GLN:HG3	2.23	0.68
1:DP:261:ILE:HD11	1:DP:265:ASP:OD1	1.92	0.68
2:MS:10:MET:HA	2:MS:14:SER:HB2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:37:ASP:OD1	1:SE:120:LEU:HB3	1.94	0.68
1:I1:145:LEU:CD1	1:SE:80:ASP:OD2	2.42	0.68
1:R1:89:TYR:CE2	1:Q6:63:LEU:CD1	2.76	0.68
1:R1:97:ILE:CD1	1:Q6:304:GLN:HG3	2.23	0.68
1:S1:106:GLU:N	1:LJ:109:LEU:CD2	2.55	0.68
1:f1:37:ASP:OD1	1:C3:120:LEU:HB3	1.94	0.68
1:g1:97:ILE:CD1	1:CQ:304:GLN:HG3	2.23	0.68
5:D2:24:THR:HA	3:AF:6:ARG:C	2.18	0.68
5:C2:266:THR:CB	5:N9:230:SER:CA	2.49	0.68
5:N2:231:ASN:CB	5:CB:265:LEU:CD2	2.71	0.68
1:A3:64:ILE:HG13	2:F3:53:PHE:HD2	1.58	0.68
1:I3:304:GLN:HG3	1:R8:97:ILE:CD1	2.23	0.68
1:J3:97:ILE:CD1	1:Q8:304:GLN:HG3	2.23	0.68
1:J3:203:GLU:HB3	1:Q8:248:SER:CB	2.23	0.68
1:Q3:37:ASP:OD1	1:X4:120:LEU:HB3	1.94	0.68
1:Q4:145:LEU:CD1	1:IL:80:ASP:OD2	2.42	0.68
1:Q4:248:SER:HG	1:h8:202:PHE:HD2	1.41	0.68
3:A5:18:LYS:HE2	5:FI:26:GLU:H	1.59	0.68
5:F5:46:TYR:CB	5:FN:31:PHE:CZ	2.61	0.68
1:S6:36:GLY:HA3	1:AS:119:LYS:HD2	1.75	0.68
1:C7:248:SER:HG	1:hR:202:PHE:HD2	1.40	0.68
1:C7:302:ASP:CB	1:DP:29:TYR:OH	2.40	0.68
1:D7:131:PHE:HB3	1:D7:159:LYS:HE3	1.73	0.68
1:J7:203:GLU:HB3	1:bQ:248:SER:CB	2.23	0.68
1:g7:82:ILE:CD1	1:C8:142:PHE:O	2.41	0.68
1:g8:35:PHE:CE1	1:KS:178:TYR:HD1	2.12	0.68
3:A9:36:LEU:HD11	1:AK:135:ASN:ND2	2.08	0.68
3:A9:202:ASN:HD22	5:DH:38:TYR:HD1	1.39	0.68
4:B9:30:LEU:H	5:EC:64:TRP:HE1	1.36	0.68
5:FB:37:ASP:OD1	4:BF:14:SER:OG	2.11	0.68
1:AD:126:VAL:HG21	1:KK:136:ASN:HB2	1.76	0.68
1:DD:304:GLN:HE22	1:KS:28:ASP:HA	1.59	0.68
1:LD:157:LYS:HE2	2:FK:2:TYR:OH	1.93	0.68
1:LD:369:PHE:CE1	1:BK:107:LEU:CD1	2.76	0.68
2:GE:11:MET:HB2	1:BP:372:VAL:HB	1.74	0.68
1:LE:64:ILE:HG13	2:PE:53:PHE:HD2	1.58	0.68
1:AG:89:TYR:CE2	1:YL:63:LEU:CD1	2.76	0.68
5:FH:31:PHE:CZ	5:FN:46:TYR:CB	2.61	0.68
3:AI:66:ILE:CD1	1:JS:359:MET:HE1	2.24	0.68
5:DI:24:THR:HA	3:AN:6:ARG:C	2.18	0.68
1:DJ:302:ASP:CG	1:LP:29:TYR:OH	2.32	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MJ:2:TYR:CD2	1:JS:153:LEU:CD1	2.55	0.68
1:IL:145:LEU:CD1	1:IQ:80:ASP:OD2	2.42	0.68
1:IL:248:SER:HG	1:ZR:202:PHE:HD2	1.41	0.68
1:RL:89:TYR:CE2	1:QR:63:LEU:CD1	2.76	0.68
3:AM:116:VAL:C	2:LS:7:MET:HE3	0.51	0.68
1:JQ:64:ILE:HG13	2:NQ:53:PHE:HD2	1.58	0.68
1:I1:53:TYR:HD1	1:SE:222:SER:OG	1.77	0.68
1:I1:142:PHE:O	1:SE:82:ILE:CD1	2.41	0.68
1:I1:364:PHE:HZ	1:JQ:108:MET:CE	1.90	0.68
1:T1:25:PHE:O	1:LJ:100:ASP:HA	1.94	0.68
1:f1:63:LEU:CD1	1:AQ:89:TYR:CE2	2.76	0.68
1:f1:80:ASP:OD2	1:QG:145:LEU:CD1	2.42	0.68
3:A2:210:SER:HB2	4:BA:249:GLN:CB	2.23	0.68
1:C4:248:SER:CB	1:RG:203:GLU:HB3	2.23	0.68
1:R4:89:TYR:CE1	1:g8:61:THR:HG22	2.27	0.68
1:R4:203:GLU:HB3	1:g8:248:SER:CB	2.23	0.68
2:b4:39:ASP:OD1	2:b4:39:ASP:N	2.24	0.68
1:f4:80:ASP:OD2	1:gG:145:LEU:CD1	2.42	0.68
3:A5:210:SER:HB2	4:BO:249:GLN:CB	2.23	0.68
5:N5:230:SER:CA	5:CN:266:THR:CB	2.49	0.68
1:Z6:65:ASP:O	1:Z6:66:ILE:CD1	2.39	0.68
1:g6:29:TYR:CE2	1:LP:317:PHE:CE1	2.77	0.68
1:i6:49:PHE:CD1	1:DJ:22:LEU:CD1	2.70	0.68
1:C7:31:LYS:CG	1:LK:314:GLY:HA2	2.19	0.68
1:C7:35:PHE:CE1	1:LK:178:TYR:HD1	2.12	0.68
1:R7:65:ASP:O	1:R7:66:ILE:CD1	2.39	0.68
1:g7:37:ASP:OD1	1:AE:120:LEU:HB3	1.94	0.68
1:g7:120:LEU:HB3	1:C8:37:ASP:OD1	1.94	0.68
1:I8:37:ASP:OD1	1:IR:120:LEU:HB3	1.94	0.68
1:Y8:80:ASP:OD2	1:bQ:145:LEU:CD1	2.42	0.68
5:D9:24:THR:HA	3:AB:6:ARG:C	2.18	0.68
3:AA:115:ILE:N	2:MK:7:MET:O	2.27	0.68
3:AB:80:ILE:HG23	2:MD:19:ARG:NH1	2.08	0.68
1:CD:14:VAL:CA	1:YG:45:MET:SD	2.76	0.68
1:CD:355:TYR:HB3	1:CD:379:TYR:HB3	1.74	0.68
1:BE:65:ASP:O	1:BE:66:ILE:CD1	2.39	0.68
1:BE:105:GLU:HB2	1:BJ:109:LEU:CD1	2.19	0.68
1:SE:304:GLN:HG3	1:JQ:97:ILE:CD1	2.23	0.68
4:BF:249:GLN:CB	3:AO:210:SER:HB2	2.23	0.68
5:CI:265:LEU:CD2	5:NO:231:ASN:CB	2.71	0.68
1:AJ:56:PRO:C	3:AN:154:ILE:HG21	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GJ:26:LEU:HD12	1:KJ:70:ASN:H	1.57	0.68
1:AK:361:LYS:NZ	1:KP:366:ASN:O	2.21	0.68
1:LK:28:ASP:HA	1:DP:304:GLN:HE22	1.59	0.68
2:F1:1:MET:N	1:iG:150:ASN:HD21	1.92	0.68
2:N1:1:MET:N	1:S8:150:ASN:HD21	1.92	0.68
1:Q1:248:SER:HG	1:R6:202:PHE:HD2	1.41	0.68
2:c1:1:MET:N	1:aR:150:ASN:HD21	1.92	0.68
2:k1:1:MET:N	1:K7:150:ASN:HD21	1.92	0.68
1:A3:97:ILE:CD1	1:g7:304:GLN:HG3	2.23	0.68
2:E3:39:ASP:OD1	2:E3:39:ASP:N	2.24	0.68
2:F3:1:MET:N	1:CE:150:ASN:HD21	1.92	0.68
1:Q3:63:LEU:CD1	1:J8:89:TYR:CE2	2.76	0.68
1:J4:97:ILE:CD1	1:C8:304:GLN:HG3	2.23	0.68
1:R4:109:LEU:O	1:IS:105:GLU:CG	2.41	0.68
2:U4:10:MET:HE2	1:BS:365:HIS:CE1	2.29	0.68
1:Y4:202:PHE:HD2	1:Y8:248:SER:HG	1.40	0.68
1:f4:99:MET:SD	1:DL:136:ASN:ND2	2.67	0.68
1:f4:137:ASP:OD2	1:B6:49:PHE:CB	2.39	0.68
2:l4:11:MET:HE3	1:DK:372:VAL:HG21	1.73	0.68
1:B6:150:ASN:HD21	2:dG:1:MET:N	1.92	0.68
1:I6:80:ASP:OD2	1:CL:145:LEU:CD1	2.42	0.68
2:N6:1:MET:N	1:K8:150:ASN:HD21	1.92	0.68
1:C7:30:SER:HA	1:LK:315:ALA:CA	2.24	0.68
1:C7:31:LYS:CG	1:LK:314:GLY:O	2.35	0.68
2:F7:1:MET:N	1:BQ:150:ASN:HD21	1.92	0.68
1:L7:136:ASN:ND2	1:Y8:99:MET:SD	2.67	0.68
1:Q7:29:TYR:HH	1:YL:302:ASP:CG	2.00	0.68
1:R7:20:SER:HG	1:R7:21:ALA:N	1.90	0.68
2:V7:1:MET:N	1:ME:150:ASN:HD21	1.92	0.68
1:Y7:120:LEU:HB3	1:KE:37:ASP:OD1	1.94	0.68
1:g7:80:ASP:OD2	1:C8:145:LEU:CD1	2.42	0.68
1:g7:222:SER:OG	1:C8:53:TYR:HD1	1.77	0.68
1:Y8:120:LEU:HB3	1:bQ:37:ASP:OD1	1.94	0.68
1:b8:136:ASN:ND2	1:CR:99:MET:SD	2.67	0.68
1:g8:31:LYS:CG	1:KS:314:GLY:O	2.35	0.68
3:A9:6:ARG:C	5:DC:24:THR:HA	2.18	0.68
1:DD:123:ASN:HD21	1:KS:21:ALA:CA	2.07	0.68
1:KD:152:ALA:CB	2:LS:15:TYR:HE2	2.07	0.68
1:KD:193:SER:HB3	7:OD:9:ALA:HB2	1.73	0.68
2:ND:10:MET:HA	2:ND:14:SER:HB2	1.76	0.68
1:BE:222:SER:C	1:CP:38:LYS:HE2	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bE:203:GLU:HB3	1:CR:248:SER:CB	2.23	0.68
1:aG:47:GLU:HG2	1:DK:22:LEU:HB3	1.75	0.68
2:cG:39:ASP:OD1	2:cG:39:ASP:N	2.24	0.68
1:gG:248:SER:CB	1:AL:203:GLU:HB3	2.23	0.68
3:AI:6:ARG:C	5:DM:24:THR:HA	2.18	0.68
1:BK:17:SER:HB2	1:jR:44:THR:O	1.92	0.68
1:BL:150:ASN:HD21	2:NL:1:MET:N	1.92	0.68
1:IL:37:ASP:OD1	1:IQ:120:LEU:HB3	1.94	0.68
1:QL:248:SER:HG	1:RR:202:PHE:HD2	1.41	0.68
1:AP:96:PRO:HD2	1:LP:166:LEU:HD13	1.76	0.68
1:B1:49:PHE:CB	1:Y8:137:ASP:OD2	2.39	0.68
1:B1:150:ASN:HD21	2:c4:1:MET:N	1.92	0.68
1:I1:304:GLN:HG3	1:JG:97:ILE:CD1	2.23	0.68
1:X1:37:ASP:OD1	1:I8:120:LEU:HB3	1.94	0.68
4:B2:14:SER:OG	5:F9:37:ASP:OD1	2.11	0.68
1:A3:108:MET:CE	1:C8:364:PHE:HZ	1.90	0.68
1:K3:150:ASN:HD21	2:F8:1:MET:N	1.92	0.68
1:C4:61:THR:HG22	1:RG:89:TYR:CE1	2.27	0.68
1:K4:150:ASN:HD21	2:VR:1:MET:N	1.92	0.68
1:S4:47:GLU:CB	1:IQ:20:SER:HB2	2.20	0.68
1:f4:120:LEU:HB3	1:gG:37:ASP:OD1	1.94	0.68
1:f4:222:SER:HG	1:gG:53:TYR:HD1	1.34	0.68
2:F6:1:MET:N	1:dQ:150:ASN:HD21	1.92	0.68
1:I6:145:LEU:CD1	1:YR:80:ASP:OD2	2.42	0.68
2:V6:1:MET:N	1:KG:150:ASN:HD21	1.92	0.68
1:Y6:120:LEU:HB3	1:SE:37:ASP:OD1	1.94	0.68
1:a6:150:ASN:HD21	2:NQ:1:MET:N	1.92	0.68
1:g6:54:LEU:CA	1:LP:118:THR:HG21	2.02	0.68
1:g6:366:ASN:OD1	1:AP:108:MET:HB2	1.94	0.68
1:B7:47:GLU:HG2	1:DP:22:LEU:HB3	1.75	0.68
1:I7:145:LEU:CD1	1:gR:80:ASP:OD2	2.42	0.68
1:R7:89:TYR:CE2	1:QQ:63:LEU:CD1	2.76	0.68
1:Y7:145:LEU:CD1	1:QQ:80:ASP:OD2	2.42	0.68
2:l8:1:MET:N	1:KL:150:ASN:HD21	1.92	0.68
4:BB:144:GLN:O	4:BF:194:ASN:HA	1.92	0.68
5:FB:46:TYR:CD1	5:FF:31:PHE:CG	2.61	0.68
1:AD:316:VAL:HG21	1:KK:32:SER:CB	2.23	0.68
1:DD:111:ARG:N	1:JS:105:GLU:HG2	2.09	0.68
1:bE:97:ILE:CD1	1:CR:304:GLN:HG3	2.23	0.68
1:gG:304:GLN:HG3	1:AL:97:ILE:CD1	2.23	0.68
3:AH:37:GLU:OE2	3:AN:150:TYR:N	2.20	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:265:ASP:OD2	2:GJ:41:TYR:CE1	2.47	0.68
1:KJ:49:PHE:HA	1:LP:22:LEU:HD11	1.73	0.68
1:LK:356:THR:HG23	2:NK:23:ARG:HE	1.59	0.68
1:IL:61:THR:HG22	1:ZR:89:TYR:CE1	2.27	0.68
1:IL:63:LEU:CD1	1:ZR:89:TYR:CE2	2.76	0.68
1:IL:208:LEU:CD1	1:IL:391:ILE:HD12	1.95	0.68
1:JL:89:TYR:CE2	1:YR:63:LEU:CD1	2.76	0.68
1:QL:63:LEU:CD1	1:RR:89:TYR:CE2	2.76	0.68
3:AM:116:VAL:HG12	2:LS:7:MET:SD	2.31	0.68
1:CQ:80:ASP:OD2	1:gR:145:LEU:CD1	2.42	0.68
1:AQ:65:ASP:O	1:AQ:66:ILE:CD1	2.39	0.68
2:MQ:39:ASP:OD1	2:MQ:39:ASP:N	2.24	0.68
1:SQ:150:ASN:HD21	2:NR:1:MET:N	1.92	0.68
1:ZR:65:ASP:O	1:ZR:66:ILE:CD1	2.39	0.68
1:CS:265:ASP:OD2	2:FS:41:TYR:CE1	2.47	0.68
1:IS:96:PRO:HD2	1:KS:166:LEU:HD13	1.76	0.68
1:C1:145:LEU:CD1	1:bQ:80:ASP:OD2	2.42	0.68
1:A1:97:ILE:CD1	1:C6:304:GLN:HG3	2.23	0.68
1:K1:47:GLU:CB	1:Y6:20:SER:HB2	2.20	0.68
1:Q1:63:LEU:CD1	1:R6:89:TYR:CE2	2.76	0.68
1:X1:99:MET:SD	1:b7:136:ASN:ND2	2.67	0.68
1:h1:150:ASN:HD21	2:F4:1:MET:N	1.92	0.68
3:A2:6:ARG:C	5:DA:24:THR:HA	2.18	0.68
1:I3:37:ASP:OD1	1:QL:120:LEU:HB3	1.93	0.68
1:Q3:61:THR:HG22	1:J8:89:TYR:CE1	2.27	0.68
1:Q3:145:LEU:CD1	1:X4:80:ASP:OD2	2.42	0.68
2:a3:11:MET:HB2	1:BK:372:VAL:HB	1.75	0.68
1:C4:120:LEU:HB3	1:aE:37:ASP:OD1	1.94	0.68
1:A4:97:ILE:CD1	1:QG:304:GLN:HG3	2.23	0.68
1:Q4:137:ASP:OD2	1:KL:49:PHE:CB	2.39	0.68
1:Q4:304:GLN:HG3	1:h8:97:ILE:CD1	2.23	0.68
1:R4:123:ASN:HD21	1:BS:21:ALA:CA	2.06	0.68
1:R4:170:GLU:OE1	1:BS:32:SER:OG	2.07	0.68
2:W4:54:THR:HG22	2:MS:1:MET:HE1	1.76	0.68
1:Z4:150:ASN:HD21	2:N8:1:MET:N	1.92	0.68
1:I6:37:ASP:OD1	1:YR:120:LEU:HB3	1.94	0.68
1:g6:45:MET:HB3	1:CP:19:LYS:HG2	1.66	0.68
1:C7:63:LEU:CD1	1:hR:89:TYR:CE2	2.76	0.68
1:C7:99:MET:SD	1:DE:136:ASN:ND2	2.67	0.68
1:C7:143:GLN:O	1:LK:82:ILE:HG12	1.63	0.68
1:B7:368:GLU:OE2	1:CP:107:LEU:HD21	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R7:203:GLU:HB3	1:QQ:248:SER:CB	2.23	0.68
1:Z7:210:ASN:ND2	1:IR:71:ARG:NH2	2.29	0.68
2:P8:11:MET:HG3	1:CR:133:LEU:CB	2.22	0.68
1:i8:368:GLU:OE2	1:CD:107:LEU:HD21	1.94	0.68
3:A9:18:LYS:HE2	5:FA:26:GLU:H	1.59	0.68
4:B9:197:SER:OG	4:BA:142:SER:OG	2.09	0.68
3:AB:113:TYR:HA	2:MD:22:LYS:HB3	1.75	0.68
1:LD:31:LYS:HG3	1:DK:314:GLY:O	1.87	0.68
1:LD:34:THR:CG2	1:DK:382:LYS:O	2.41	0.68
1:LD:315:ALA:CA	1:YG:30:SER:HA	2.24	0.68
2:MD:50:LYS:C	3:AF:114:PHE:CZ	2.71	0.68
1:BE:81:PHE:CE2	1:CP:139:ARG:HG3	2.29	0.68
1:KE:208:LEU:CD1	1:KE:391:ILE:HD12	1.95	0.68
1:bE:89:TYR:CE2	1:CR:63:LEU:CD1	2.76	0.68
1:cE:47:GLU:CB	1:CG:20:SER:HB2	2.20	0.68
5:EI:64:TRP:HE1	4:BN:29:LYS:HA	1.59	0.68
1:DJ:82:ILE:HG12	1:LP:143:GLN:C	2.18	0.68
1:LJ:21:ALA:CA	1:CS:123:ASN:HD21	2.07	0.68
1:KK:355:TYR:HB3	1:KK:379:TYR:HB3	1.75	0.68
1:DP:265:ASP:OD2	2:GP:41:TYR:CE1	2.47	0.68
1:CQ:120:LEU:HB3	1:gR:37:ASP:OD1	1.94	0.68
1:AR:64:ILE:HG13	2:FR:53:PHE:HD2	1.58	0.68
1:C1:120:LEU:HB3	1:Y8:37:ASP:OD1	1.94	0.67
1:C1:142:PHE:O	1:bQ:82:ILE:CD1	2.41	0.67
1:I1:73:ASN:O	2:PG:25:GLU:OE1	1.93	0.67
1:Q1:120:LEU:HB3	1:Q8:37:ASP:OD1	1.93	0.67
1:S1:99:MET:SD	1:CJ:136:ASN:ND2	2.67	0.67
1:X1:63:LEU:CD1	1:J6:89:TYR:CE2	2.76	0.67
1:f1:61:THR:HG22	1:AQ:89:TYR:CE1	2.27	0.67
1:g1:89:TYR:CE2	1:CQ:63:LEU:CD1	2.76	0.67
5:F2:26:GLU:H	3:AB:18:LYS:HE2	1.59	0.67
1:Q3:248:SER:CB	1:J8:203:GLU:HB3	2.23	0.67
2:P4:11:MET:HG3	1:AE:133:LEU:CB	2.22	0.67
1:Q4:222:SER:OG	1:IQ:53:TYR:HD1	1.77	0.67
1:S4:150:ASN:HD21	2:XE:1:MET:N	1.92	0.67
2:W4:25:GLU:OE1	1:g8:73:ASN:O	1.93	0.67
1:X4:37:ASP:OD1	1:CR:120:LEU:HB3	1.94	0.67
3:A5:208:LYS:CD	4:BO:251:TRP:CD1	2.78	0.67
1:J7:97:ILE:CD1	1:bQ:304:GLN:HG3	2.23	0.67
1:J7:202:PHE:HD2	1:bQ:248:SER:HG	1.41	0.67
1:L7:325:LYS:HB2	1:L7:325:LYS:HZ2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q7:248:SER:CB	1:RQ:203:GLU:HB3	2.23	0.67
1:Y7:248:SER:HG	1:JR:202:PHE:HD2	1.41	0.67
1:g8:82:ILE:CD1	1:DD:142:PHE:O	2.43	0.67
6:K9:87:GLU:O	6:K9:91:THR:HG23	1.95	0.67
3:AA:115:ILE:HA	2:MK:7:MET:HE1	1.76	0.67
1:KD:80:ASP:CB	3:AF:65:ASN:ND2	2.56	0.67
1:LD:35:PHE:CE1	1:DK:384:ILE:CD1	2.71	0.67
1:BE:109:LEU:O	1:AP:105:GLU:CG	2.41	0.67
2:HE:10:MET:HE2	1:CP:365:HIS:CE1	2.29	0.67
5:CH:265:LEU:CD2	5:NN:231:ASN:CB	2.71	0.67
1:AJ:126:VAL:HG21	1:JS:136:ASN:HB2	1.75	0.67
1:DJ:110:LYS:C	1:KP:105:GLU:HG2	1.91	0.67
1:CK:136:ASN:ND2	1:iR:99:MET:SD	2.67	0.67
3:AO:154:ILE:HG23	1:IS:145:LEU:HD22	1.76	0.67
1:CQ:222:SER:HG	1:gR:53:TYR:HD1	1.34	0.67
1:C1:304:GLN:HG3	1:A6:97:ILE:CD1	2.23	0.67
1:R1:239:VAL:HG22	2:W1:48:LEU:HD13	1.77	0.67
1:a1:136:ASN:ND2	1:YR:99:MET:SD	2.67	0.67
1:h1:49:PHE:CB	1:QG:137:ASP:OD2	2.39	0.67
3:A2:106:ARG:CB	2:MD:13:THR:CG2	2.71	0.67
5:F2:46:TYR:CD1	5:FB:31:PHE:CG	2.61	0.67
1:C3:20:SER:HB2	1:SG:47:GLU:CB	2.20	0.67
1:J3:110:LYS:NZ	1:R6:105:GLU:OE1	2.28	0.67
1:J3:239:VAL:HG22	2:P3:48:LEU:HD13	1.77	0.67
1:Q3:82:ILE:CD1	1:CR:142:PHE:O	2.41	0.67
1:R3:89:TYR:CE1	1:I8:61:THR:HG22	2.27	0.67
1:Y3:136:ASN:ND2	1:YG:99:MET:SD	2.67	0.67
1:R4:81:PHE:CE2	1:BS:139:ARG:HG3	2.29	0.67
1:X4:99:MET:SD	1:L8:136:ASN:ND2	2.67	0.67
1:i4:325:LYS:HB2	1:i4:325:LYS:HZ2	1.58	0.67
1:C6:142:PHE:O	1:gG:82:ILE:CD1	2.41	0.67
1:C6:145:LEU:CD1	1:gG:80:ASP:OD2	2.42	0.67
1:Q6:82:ILE:CD1	1:CS:142:PHE:O	2.43	0.67
1:S6:50:VAL:HG23	1:CS:137:ASP:CG	2.11	0.67
1:C7:54:LEU:CA	1:LK:118:THR:HG21	2.02	0.67
1:I7:37:ASP:OD1	1:gR:120:LEU:HB3	1.94	0.67
1:I7:82:ILE:CD1	1:CQ:142:PHE:O	2.41	0.67
1:R7:105:GLU:OE1	1:JR:110:LYS:NZ	2.28	0.67
1:g7:142:PHE:O	1:AE:82:ILE:CD1	2.41	0.67
1:h7:64:ILE:HG13	2:l7:53:PHE:HD2	1.58	0.67
2:l7:1:MET:N	1:SG:150:ASN:HD21	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R8:239:VAL:HG22	2:X8:48:LEU:HD13	1.77	0.67
1:i8:49:PHE:HA	1:DD:22:LEU:HD13	1.75	0.67
3:AA:115:ILE:CB	2:MK:7:MET:HE3	2.23	0.67
4:BB:251:TRP:CD1	3:AM:208:LYS:CD	2.78	0.67
3:AC:18:LYS:HE2	5:FH:26:GLU:H	1.59	0.67
1:KD:33:TRP:CD2	1:IS:174:MET:HB2	2.28	0.67
1:DE:109:LEU:C	1:LP:105:GLU:CG	2.60	0.67
1:aE:63:LEU:CD1	1:AR:89:TYR:CE2	2.76	0.67
1:aE:99:MET:SD	1:bL:136:ASN:ND2	2.67	0.67
4:BF:251:TRP:CD1	3:AO:208:LYS:CD	2.78	0.67
5:NF:231:ASN:CB	5:CM:265:LEU:CD2	2.71	0.67
1:aG:49:PHE:HA	1:DK:22:LEU:HD13	1.75	0.67
5:FI:31:PHE:CG	5:FO:46:TYR:CD1	2.61	0.67
1:KJ:32:SER:CB	1:AP:316:VAL:HG21	2.23	0.67
1:CK:265:ASP:OD2	2:EK:41:TYR:CE1	2.40	0.67
1:DK:265:ASP:OD2	2:GK:41:TYR:CE1	2.47	0.67
1:LK:98:ASN:HD21	1:jR:29:TYR:N	1.93	0.67
1:LK:369:PHE:HD2	1:BP:108:MET:CE	2.02	0.67
1:RL:239:VAL:HG22	2:XL:48:LEU:HD13	1.77	0.67
5:FM:26:GLU:H	3:AO:18:LYS:HE2	1.59	0.67
1:YQ:109:LEU:C	1:KS:105:GLU:CG	2.60	0.67
1:C1:63:LEU:CD1	1:A6:89:TYR:CE2	2.76	0.67
1:f1:208:LEU:CD1	1:f1:391:ILE:HD12	1.95	0.67
2:j1:39:ASP:N	2:j1:39:ASP:OD1	2.24	0.67
1:R3:105:GLU:OE1	1:J6:110:LYS:NZ	2.28	0.67
2:d3:11:MET:HB2	1:BD:372:VAL:HB	1.75	0.67
1:X4:248:SER:CB	1:Z8:203:GLU:HB3	2.23	0.67
1:Y4:64:ILE:HG13	2:c4:53:PHE:HD2	1.58	0.67
1:f4:37:ASP:OD1	1:C6:120:LEU:HB3	1.94	0.67
4:B5:29:LYS:HA	5:EO:64:TRP:HE1	1.59	0.67
6:K5:87:GLU:O	6:K5:91:THR:HG23	1.95	0.67
1:D6:325:LYS:HB2	1:D6:325:LYS:HZ2	1.59	0.67
1:I6:82:ILE:CD1	1:CL:142:PHE:O	2.41	0.67
1:I6:120:LEU:HB3	1:CL:37:ASP:OD1	1.94	0.67
1:Q6:31:LYS:HG3	1:LJ:314:GLY:O	1.91	0.67
1:Q6:366:ASN:OD1	1:AJ:108:MET:HB2	1.94	0.67
1:Y6:133:LEU:CB	2:PG:11:MET:HG3	2.22	0.67
1:g6:208:LEU:CD1	1:g6:391:ILE:HD12	1.95	0.67
1:C7:82:ILE:CD1	1:DP:142:PHE:O	2.42	0.67
1:D7:136:ASN:ND2	1:CQ:99:MET:SD	2.67	0.67
1:I7:142:PHE:O	1:gR:82:ILE:CD1	2.41	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y7:222:SER:OG	1:KE:53:TYR:HD1	1.77	0.67
1:j7:136:ASN:ND2	1:QG:99:MET:SD	2.67	0.67
1:B8:47:GLU:CB	1:AE:20:SER:HB2	2.20	0.67
1:R8:110:LYS:NZ	1:RR:105:GLU:OE1	2.28	0.67
1:Z8:110:LYS:NZ	1:bE:105:GLU:OE1	2.28	0.67
1:b8:325:LYS:HB2	1:b8:325:LYS:HZ2	1.58	0.67
1:h8:105:GLU:OE1	1:TE:110:LYS:NZ	2.28	0.67
1:i8:44:THR:HB	1:DD:16:LYS:HZ2	1.58	0.67
3:A9:81:LEU:CD1	1:AK:153:LEU:HD12	2.13	0.67
3:AB:158:GLU:HB2	1:AD:370:ASP:OD2	1.94	0.67
1:AD:145:LEU:CG	3:AF:37:GLU:HB2	2.24	0.67
1:KD:16:LYS:N	1:KS:45:MET:CE	2.58	0.67
1:KD:57:LYS:HD2	1:KS:143:GLN:OE1	1.88	0.67
1:LD:22:LEU:HD11	1:KK:49:PHE:HA	1.73	0.67
2:ND:15:TYR:CE2	1:YG:148:ALA:CA	2.63	0.67
1:CE:99:MET:SD	1:CP:136:ASN:ND2	2.67	0.67
1:aE:120:LEU:HB3	1:CG:37:ASP:OD1	1.94	0.67
5:DF:24:THR:HA	3:AO:6:ARG:C	2.18	0.67
1:CG:63:LEU:CD1	1:ZL:89:TYR:CE2	2.76	0.67
1:AG:110:LYS:NZ	1:RL:105:GLU:OE1	2.28	0.67
3:AI:18:LYS:HE2	5:FO:26:GLU:H	1.59	0.67
5:DI:52:LEU:CA	3:AN:6:ARG:NH2	2.45	0.67
1:AJ:361:LYS:NZ	1:JS:366:ASN:O	2.22	0.67
1:KJ:16:LYS:N	1:LP:45:MET:CE	2.58	0.67
2:MJ:15:TYR:HE2	1:JS:152:ALA:CB	2.07	0.67
1:AK:62:LEU:HD23	1:KK:88:GLU:HB3	1.76	0.67
1:AK:96:PRO:HD2	1:LK:166:LEU:HD13	1.76	0.67
1:LK:28:ASP:HB3	1:DP:304:GLN:CD	2.17	0.67
1:LK:31:LYS:CD	1:DP:316:VAL:HG12	2.04	0.67
2:ML:39:ASP:N	2:ML:39:ASP:OD1	2.24	0.67
1:D1:325:LYS:HB2	1:D1:325:LYS:HZ2	1.59	0.67
1:Q1:80:ASP:OD2	1:Q8:145:LEU:CD1	2.42	0.67
1:Q1:142:PHE:O	1:IG:82:ILE:CD1	2.41	0.67
3:A2:208:LYS:CD	4:BA:251:TRP:CD1	2.78	0.67
1:I3:145:LEU:CD1	1:QL:80:ASP:OD2	2.42	0.67
1:b3:136:ASN:ND2	1:g8:99:MET:SD	2.67	0.67
1:C4:99:MET:SD	1:DR:136:ASN:ND2	2.67	0.67
1:A4:105:GLU:OE1	1:h7:110:LYS:NZ	2.28	0.67
1:Q4:99:MET:SD	1:VE:136:ASN:ND2	2.67	0.67
1:T4:25:PHE:O	1:KS:100:ASP:HA	1.94	0.67
1:i4:29:TYR:N	1:LD:98:ASN:HD21	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j4:10:MET:HE2	1:CD:365:HIS:CE1	2.29	0.67
3:A5:254:LEU:HD11	3:A5:271:ARG:HG3	1.77	0.67
5:N5:230:SER:C	5:CN:266:THR:HB	2.17	0.67
1:C6:137:ASP:OD2	1:iG:49:PHE:CB	2.39	0.67
1:Q6:35:PHE:CE1	1:LJ:178:TYR:HD1	2.12	0.67
1:Q6:367:PRO:CB	1:LJ:375:TRP:CD2	2.76	0.67
1:Y6:82:ILE:CD1	1:SE:142:PHE:O	2.41	0.67
1:Z6:105:GLU:OE1	1:R7:110:LYS:NZ	2.28	0.67
1:b6:136:ASN:ND2	1:Y7:99:MET:SD	2.67	0.67
1:I7:248:SER:CB	1:cQ:203:GLU:HB3	2.23	0.67
1:Z7:239:VAL:HG22	2:f7:48:LEU:HD13	1.77	0.67
1:C8:82:ILE:CD1	1:AE:142:PHE:O	2.41	0.67
1:I8:142:PHE:O	1:IR:82:ILE:CD1	2.41	0.67
2:c8:39:ASP:N	2:c8:39:ASP:OD1	2.24	0.67
3:AC:33:ASN:HA	1:AP:145:LEU:HD11	1.76	0.67
1:DD:265:ASP:OD2	2:GD:41:TYR:CE1	2.47	0.67
1:KD:32:SER:HB3	1:IS:170:GLU:CD	2.18	0.67
1:KD:105:GLU:HG2	1:DK:111:ARG:N	2.09	0.67
1:LD:45:MET:CE	1:KK:16:LYS:N	2.58	0.67
1:LD:178:TYR:HD1	1:YG:35:PHE:CD1	2.13	0.67
1:BE:123:ASN:HD21	1:CP:21:ALA:CA	2.07	0.67
1:TE:64:ILE:HG13	2:XE:53:PHE:HD2	1.58	0.67
1:aE:248:SER:HG	1:AR:202:PHE:HD2	1.41	0.67
1:bE:239:VAL:HG22	2:hE:48:LEU:HD13	1.77	0.67
2:FG:1:MET:N	1:SR:150:ASN:HD21	1.92	0.67
1:hG:203:GLU:HB3	1:CL:248:SER:CB	2.23	0.67
3:AH:309:SER:HB2	3:AN:302:TYR:CD2	2.30	0.67
3:AI:208:LYS:CD	4:BM:251:TRP:CD1	2.78	0.67
3:AI:210:SER:HB2	4:BM:249:GLN:CB	2.23	0.67
1:BJ:108:MET:HE2	1:LP:369:PHE:CG	2.30	0.67
1:BJ:157:LYS:NZ	2:iL:2:TYR:CZ	2.52	0.67
1:DJ:384:ILE:CD1	1:LP:35:PHE:HE1	2.08	0.67
1:LJ:45:MET:CE	1:JS:16:LYS:N	2.58	0.67
1:LK:100:ASP:HA	1:jR:25:PHE:O	1.94	0.67
1:CL:80:ASP:OD2	1:YR:145:LEU:CD1	2.42	0.67
1:CL:82:ILE:CD1	1:YR:142:PHE:O	2.41	0.67
3:AO:36:LEU:CB	1:IS:145:LEU:HD12	2.25	0.67
1:QQ:99:MET:SD	1:LR:136:ASN:ND2	2.67	0.67
1:TQ:325:LYS:HB2	1:TQ:325:LYS:HZ2	1.58	0.67
1:JR:239:VAL:HG22	2:PR:48:LEU:HD13	1.77	0.67
1:C1:80:ASP:OD2	1:Y8:145:LEU:CD1	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:89:TYR:CE2	1:C6:63:LEU:CD1	2.76	0.67
1:R1:119:LYS:HE2	1:CJ:38:LYS:HG2	1.75	0.67
1:R1:203:GLU:HB3	1:Q6:248:SER:CB	2.23	0.67
1:g1:110:LYS:NZ	1:cQ:105:GLU:OE1	2.28	0.67
2:M3:39:ASP:N	2:M3:39:ASP:OD1	2.24	0.67
1:R3:89:TYR:CE2	1:I8:63:LEU:CD1	2.76	0.67
1:C4:368:GLU:CG	1:CG:375:TRP:CZ2	2.73	0.67
1:D4:325:LYS:HB2	1:D4:325:LYS:HZ2	1.59	0.67
1:J4:239:VAL:HG22	2:P4:48:LEU:HD13	1.77	0.67
2:N4:1:MET:N	1:i7:150:ASN:HD21	1.92	0.67
1:f4:145:LEU:CD1	1:C6:80:ASP:OD2	2.42	0.67
1:g4:203:GLU:HB3	1:YG:248:SER:CB	2.23	0.67
1:I6:99:MET:SD	1:jG:136:ASN:ND2	2.67	0.67
1:Y6:248:SER:HG	1:LE:202:PHE:HD2	1.41	0.67
1:I7:80:ASP:OD2	1:CQ:145:LEU:CD1	2.42	0.67
1:Q7:53:TYR:HD1	1:YL:222:SER:OG	1.77	0.67
1:Q7:99:MET:SD	1:TL:136:ASN:ND2	2.67	0.67
1:Q7:248:SER:HG	1:RQ:202:PHE:HD2	1.41	0.67
1:h8:110:LYS:NZ	1:ZR:105:GLU:OE1	2.28	0.67
3:A9:208:LYS:CD	4:BC:251:TRP:CD1	2.78	0.67
3:A9:309:SER:HB2	3:AA:302:TYR:CD2	2.30	0.67
1:AD:96:PRO:HD2	1:LD:166:LEU:HD13	1.76	0.67
1:AD:170:GLU:CD	1:KK:32:SER:HB3	2.18	0.67
1:KD:105:GLU:C	1:DK:109:LEU:HD11	2.08	0.67
1:LD:45:MET:HE2	1:KK:16:LYS:H	1.60	0.67
1:LD:57:LYS:HD3	1:KK:58:ILE:CG2	2.25	0.67
1:KE:208:LEU:HD11	1:KE:391:ILE:HD13	1.46	0.67
1:UE:150:ASN:HD21	2:NG:1:MET:N	1.92	0.67
1:JG:239:VAL:HG22	2:PG:48:LEU:HD13	1.77	0.67
1:ZG:64:ILE:HG13	2:dG:53:PHE:HD2	1.58	0.67
5:FH:31:PHE:CG	5:FN:46:TYR:CD1	2.61	0.67
4:BI:29:LYS:HA	5:EM:64:TRP:HE1	1.60	0.67
1:KJ:98:ASN:HD22	1:JS:30:SER:HB3	1.54	0.67
1:KJ:152:ALA:CB	2:MP:15:TYR:HE2	2.07	0.67
1:KK:105:GLU:HG2	1:DP:111:ARG:N	2.09	0.67
1:LK:157:LYS:HE2	2:FP:2:TYR:OH	1.93	0.67
2:NK:22:LYS:HD3	2:NK:24:THR:H	1.60	0.67
2:XL:11:MET:HG3	1:YL:133:LEU:CB	2.23	0.67
1:KP:355:TYR:HB3	1:KP:379:TYR:HB3	1.75	0.67
2:XQ:11:MET:HG3	1:QR:133:LEU:CB	2.23	0.67
1:KS:356:THR:HG23	2:MS:23:ARG:HE	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:99:MET:SD	1:a4:136:ASN:ND2	2.67	0.67
1:I1:82:ILE:CD1	1:Y6:142:PHE:O	2.41	0.67
1:J1:110:LYS:NZ	1:J3:105:GLU:OE1	2.28	0.67
1:K1:150:ASN:HD21	2:PE:1:MET:N	1.92	0.67
1:T1:33:TRP:CG	1:CJ:174:MET:HB2	2.29	0.67
1:X1:145:LEU:CD1	1:I8:80:ASP:OD2	2.42	0.67
1:X1:248:SER:HG	1:J6:202:PHE:HD2	1.41	0.67
3:A2:154:ILE:HG21	1:AK:55:PHE:N	2.09	0.67
1:A3:89:TYR:CE2	1:g7:63:LEU:CD1	2.76	0.67
1:I3:73:ASN:O	2:X8:25:GLU:OE1	1.93	0.67
1:I3:137:ASP:OD2	1:SL:49:PHE:CB	2.39	0.67
1:R3:110:LYS:NZ	1:Z7:105:GLU:OE1	2.28	0.67
1:A4:89:TYR:CE2	1:QG:63:LEU:CD1	2.76	0.67
1:A4:110:LYS:NZ	1:AQ:105:GLU:OE1	2.28	0.67
1:I4:82:ILE:CD1	1:QL:142:PHE:O	2.41	0.67
1:J4:202:PHE:HD2	1:C8:248:SER:HG	1.41	0.67
1:Q4:63:LEU:CD1	1:h8:89:TYR:CE2	2.76	0.67
1:Q4:82:ILE:CD1	1:IQ:142:PHE:O	2.41	0.67
1:X4:145:LEU:CD1	1:CR:80:ASP:OD2	2.42	0.67
1:Y4:203:GLU:HB3	1:Y8:248:SER:CB	2.23	0.67
1:h4:150:ASN:HD21	2:FL:1:MET:N	1.92	0.67
4:B5:30:LEU:H	5:EO:64:TRP:CD1	2.12	0.67
5:C5:265:LEU:CD2	5:NI:231:ASN:CB	2.71	0.67
1:C6:99:MET:SD	1:bG:136:ASN:ND2	2.67	0.67
1:L6:136:ASN:ND2	1:I8:99:MET:SD	2.67	0.67
1:g6:99:MET:SD	1:gL:136:ASN:ND2	2.67	0.67
1:h6:202:PHE:HD2	1:AE:248:SER:HG	1.41	0.67
1:T7:136:ASN:ND2	1:KE:99:MET:SD	2.67	0.67
1:C8:80:ASP:OD2	1:AE:145:LEU:CD1	2.42	0.67
1:A8:110:LYS:NZ	1:R8:105:GLU:OE1	2.28	0.67
2:d8:1:MET:N	1:BR:150:ASN:HD21	1.92	0.67
3:AA:106:ARG:N	2:MK:21:ASN:ND2	2.43	0.67
4:BA:38:GLN:NE2	5:FH:41:ASN:CG	2.51	0.67
3:AB:302:TYR:CD2	3:AF:309:SER:HB2	2.30	0.67
5:NB:230:SER:CA	5:CF:266:THR:CB	2.49	0.67
1:CD:19:LYS:CG	1:YG:45:MET:CB	2.14	0.67
1:FE:33:TRP:CG	1:CP:174:MET:HB2	2.30	0.67
1:CG:248:SER:HG	1:ZL:202:PHE:HD2	1.41	0.67
1:ZG:239:VAL:HG22	2:fG:48:LEU:HD13	1.77	0.67
1:hG:105:GLU:OE1	1:JL:110:LYS:NZ	2.28	0.67
3:AH:254:LEU:HD11	3:AH:271:ARG:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:KH:87:GLU:O	6:KH:91:THR:HG23	1.94	0.67
1:LJ:356:THR:HG23	2:NJ:23:ARG:HE	1.59	0.67
1:CK:32:SER:OG	1:hR:170:GLU:OE1	2.07	0.67
1:CK:365:HIS:CE1	2:kR:10:MET:HE2	2.29	0.67
1:RL:110:LYS:NZ	1:RQ:105:GLU:OE1	2.28	0.67
1:ZL:110:LYS:NZ	1:AR:105:GLU:OE1	2.28	0.67
1:aL:150:ASN:HD21	2:VQ:1:MET:N	1.92	0.67
1:DP:372:VAL:HG21	2:mR:11:MET:HE3	1.73	0.67
2:aQ:3:GLU:O	1:AS:153:LEU:HD22	1.95	0.67
1:JS:355:TYR:HB3	1:JS:379:TYR:HB3	1.75	0.67
1:C1:137:ASP:OD2	1:dQ:49:PHE:CB	2.39	0.67
1:A1:105:GLU:OE1	1:ZG:110:LYS:NZ	2.28	0.67
1:I1:80:ASP:OD2	1:Y6:145:LEU:CD1	2.42	0.67
1:T1:27:HIS:CG	1:CJ:312:PRO:HG3	2.30	0.67
1:T1:143:GLN:HB3	1:BJ:57:LYS:HB3	1.77	0.67
1:X1:71:ARG:NH2	1:J6:210:ASN:ND2	2.29	0.67
3:A2:114:PHE:CE1	2:GK:25:GLU:HB2	2.30	0.67
6:K2:87:GLU:O	6:K2:91:THR:HG23	1.95	0.67
1:B4:150:ASN:HD21	2:FR:1:MET:N	1.92	0.67
1:I4:80:ASP:OD2	1:QL:145:LEU:CD1	2.42	0.67
1:S4:99:MET:SD	1:BS:136:ASN:ND2	2.67	0.67
1:T4:44:THR:C	1:AS:17:SER:CB	2.68	0.67
1:X4:142:PHE:O	1:CR:82:ILE:CD1	2.41	0.67
1:Y4:239:VAL:HG22	2:e4:48:LEU:HD13	1.77	0.67
1:f4:248:SER:CB	1:ZG:203:GLU:HB3	2.23	0.67
1:i4:33:TRP:CG	1:CD:174:MET:HB2	2.30	0.67
1:i4:145:LEU:N	1:CD:82:ILE:CD1	2.50	0.67
3:A5:309:SER:HB2	3:AI:302:TYR:CD2	2.30	0.67
5:F5:31:PHE:CG	5:FI:46:TYR:CD1	2.61	0.67
1:g6:35:PHE:CE1	1:LP:178:TYR:HD1	2.12	0.67
1:i6:368:GLU:OE2	1:CJ:107:LEU:HD23	1.92	0.67
1:C7:29:TYR:CE2	1:LK:317:PHE:CE1	2.77	0.67
2:N7:1:MET:N	1:a8:150:ASN:HD21	1.92	0.67
4:B9:30:LEU:H	5:EC:64:TRP:CD1	2.12	0.67
3:AC:208:LYS:CD	4:BN:251:TRP:CD1	2.78	0.67
1:LD:178:TYR:HD1	1:YG:35:PHE:CE1	2.12	0.67
2:ND:22:LYS:HD3	2:ND:24:THR:H	1.60	0.67
1:FE:27:HIS:CG	1:CP:312:PRO:HG3	2.30	0.67
1:JG:110:LYS:NZ	1:JQ:105:GLU:OE1	2.28	0.67
4:BI:14:SER:OG	5:FO:37:ASP:OD1	2.11	0.67
1:CK:139:ARG:HG3	1:hR:81:PHE:CE2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RL:203:GLU:HB3	1:QR:248:SER:CB	2.23	0.67
3:AO:154:ILE:HB	1:IS:144:THR:HA	1.75	0.67
1:RQ:239:VAL:HG22	2:XQ:48:LEU:HD13	1.77	0.67
1:eQ:136:ASN:ND2	1:gR:99:MET:SD	2.67	0.67
1:C1:37:ASP:OD1	1:bQ:120:LEU:HB3	1.93	0.67
1:C1:222:SER:OG	1:Y8:53:TYR:HD1	1.77	0.67
1:Q1:71:ARG:NH2	1:R6:210:ASN:ND2	2.29	0.67
1:R1:81:PHE:CE2	1:CJ:139:ARG:HG3	2.29	0.67
1:X1:80:ASP:OD2	1:IR:145:LEU:CD1	2.42	0.67
3:A2:254:LEU:HD11	3:A2:271:ARG:HG3	1.77	0.67
1:C3:142:PHE:O	1:QG:82:ILE:CD1	2.41	0.67
1:A3:105:GLU:OE1	1:J4:110:LYS:NZ	2.28	0.67
1:R3:64:ILE:HG13	2:V3:53:PHE:HD2	1.58	0.67
1:A4:239:VAL:HG22	2:H4:48:LEU:HD13	1.77	0.67
2:E4:39:ASP:OD1	2:E4:39:ASP:N	2.24	0.67
1:R4:119:LYS:HE2	1:BS:38:LYS:HG2	1.75	0.67
1:Y4:110:LYS:NZ	1:A6:105:GLU:OE1	2.28	0.67
1:g4:81:PHE:CE2	1:CD:139:ARG:HG3	2.29	0.67
1:h4:99:MET:SD	1:CD:136:ASN:ND2	2.67	0.67
3:A5:302:TYR:CD2	3:AN:309:SER:HB2	2.30	0.67
2:U6:45:ILE:CG1	2:U6:46:HIS:N	2.36	0.67
1:Y6:80:ASP:OD2	1:SE:145:LEU:CD1	2.42	0.67
1:g6:141:ASN:OD1	1:CP:51:ASN:OD1	2.13	0.67
2:l6:1:MET:N	1:B8:150:ASN:HD21	1.92	0.67
1:C7:21:ALA:N	1:CK:47:GLU:HG2	2.06	0.67
1:B7:44:THR:HB	1:DP:16:LYS:HZ2	1.59	0.67
1:R7:239:VAL:HG22	2:X7:48:LEU:HD13	1.77	0.67
1:Y7:20:SER:HB2	1:SQ:47:GLU:CB	2.20	0.67
1:g7:14:VAL:HG21	1:CE:14:VAL:CG2	2.25	0.67
2:U8:39:ASP:N	2:U8:39:ASP:OD1	2.24	0.67
1:g8:141:ASN:OD1	1:BS:51:ASN:OD1	2.13	0.67
3:A9:37:GLU:OE2	3:AA:150:TYR:N	2.20	0.67
5:F9:41:ASN:CG	4:BB:38:GLN:NE2	2.51	0.67
3:AA:208:LYS:CD	4:BH:251:TRP:CD1	2.78	0.67
3:AB:32:PHE:CZ	1:AD:370:ASP:OD1	2.44	0.67
5:NB:231:ASN:CB	5:CF:265:LEU:CD2	2.71	0.67
3:AC:114:PHE:CD1	2:MP:51:GLN:HB2	2.26	0.67
6:KC:87:GLU:O	6:KC:91:THR:HG23	1.95	0.67
1:AD:71:ARG:HB3	1:AD:168:GLU:HG2	1.77	0.67
1:FE:25:PHE:O	1:LP:100:ASP:HA	1.94	0.67
1:FE:29:TYR:N	1:LP:98:ASN:HD21	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SE:63:LEU:CD1	1:JQ:89:TYR:CE2	2.76	0.67
1:RG:105:GLU:OE1	1:AR:110:LYS:NZ	2.28	0.67
1:BJ:153:LEU:HD22	2:iL:3:GLU:O	1.95	0.67
1:ZL:239:VAL:HG22	2:fL:48:LEU:HD13	1.77	0.67
1:AP:62:LEU:HD23	1:KP:88:GLU:HB3	1.77	0.67
2:NP:10:MET:HA	2:NP:14:SER:HB2	1.76	0.67
1:IS:62:LEU:HD23	1:JS:88:GLU:HB3	1.76	0.67
1:Q1:14:VAL:HG21	1:KG:14:VAL:CG2	2.25	0.67
1:Q1:145:LEU:CD1	1:IG:80:ASP:OD2	2.42	0.67
1:S1:49:PHE:CB	1:Q8:137:ASP:OD2	2.39	0.67
1:T1:44:THR:C	1:BJ:17:SER:CB	2.68	0.67
1:Y1:108:MET:CE	1:CL:364:PHE:HZ	1.90	0.67
1:Z1:14:VAL:CG2	1:IR:14:VAL:HG21	2.25	0.67
3:A2:18:LYS:HE2	5:F9:26:GLU:H	1.59	0.67
5:E2:64:TRP:HE1	4:BF:29:LYS:HA	1.59	0.67
5:F2:31:PHE:CG	5:F9:46:TYR:CD1	2.61	0.67
1:C3:61:THR:HG22	1:h7:89:TYR:CE1	2.27	0.67
1:S3:150:ASN:HD21	2:fE:1:MET:N	1.92	0.67
1:C4:63:LEU:CD1	1:RG:89:TYR:CE2	2.76	0.67
1:B4:14:VAL:CG2	1:aE:14:VAL:HG21	2.25	0.67
1:K4:14:VAL:CG2	1:QL:14:VAL:HG21	2.25	0.67
1:T4:143:GLN:HB3	1:AS:57:LYS:HB3	1.77	0.67
1:f4:53:TYR:HD1	1:C6:222:SER:OG	1.77	0.67
1:i4:44:THR:C	1:BD:17:SER:CB	2.68	0.67
5:E5:64:TRP:HE1	4:BH:30:LEU:H	1.36	0.67
1:C6:37:ASP:OD1	1:gG:120:LEU:HB3	1.93	0.67
1:Q6:31:LYS:O	1:LJ:125:ILE:CD1	2.43	0.67
1:a6:14:VAL:CG2	1:SE:14:VAL:HG21	2.25	0.67
1:A7:105:GLU:OE1	1:cQ:110:LYS:NZ	2.28	0.67
1:J7:89:TYR:CE2	1:bQ:63:LEU:CD1	2.76	0.67
1:J7:89:TYR:CE1	1:bQ:61:THR:HG22	2.27	0.67
1:Q7:82:ILE:CD1	1:QR:142:PHE:O	2.41	0.67
1:R7:64:ILE:HG13	2:V7:53:PHE:HD2	1.58	0.67
1:S7:150:ASN:HD21	2:VL:1:MET:N	1.92	0.67
1:h7:239:VAL:HG22	2:n7:48:LEU:HD13	1.77	0.67
1:J8:105:GLU:OE1	1:bE:110:LYS:NZ	2.28	0.67
1:h8:239:VAL:HG22	2:n8:48:LEU:HD13	1.77	0.67
5:EB:64:TRP:CD1	4:BM:30:LEU:H	2.12	0.67
4:BC:30:LEU:H	5:EN:64:TRP:CD1	2.12	0.67
1:LD:157:LYS:HZ3	2:FK:2:TYR:HE2	1.40	0.67
1:LD:372:VAL:HG11	2:FK:10:MET:CB	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FE:44:THR:C	1:BP:17:SER:CB	2.68	0.67
1:cE:49:PHE:CB	1:CG:137:ASP:OD2	2.39	0.67
1:AG:105:GLU:OE1	1:RQ:110:LYS:NZ	2.28	0.67
1:aG:57:LYS:HD2	1:DK:143:GLN:CG	2.19	0.67
1:gG:63:LEU:CD1	1:AL:89:TYR:CE2	2.76	0.67
2:nG:25:GLU:OE1	1:CL:73:ASN:O	1.93	0.67
3:AI:112:ILE:HD13	2:MJ:6:ASN:H	1.57	0.67
4:BI:251:TRP:CD1	3:AN:208:LYS:CD	2.78	0.67
5:EI:21:ILE:HG23	5:EO:55:LEU:HD21	1.76	0.67
1:KJ:105:GLU:HG2	1:CS:111:ARG:N	2.09	0.67
1:LJ:31:LYS:HG3	1:CS:314:GLY:O	1.87	0.67
1:YQ:109:LEU:HD13	1:KS:106:GLU:HA	1.77	0.67
2:ES:11:MET:H	2:ES:14:SER:HB3	1.60	0.67
1:I1:29:TYR:HH	1:SE:302:ASP:CG	2.00	0.67
1:J1:105:GLU:OE1	1:R6:110:LYS:NZ	2.28	0.67
1:Q1:222:SER:OG	1:Q8:53:TYR:HD1	1.77	0.67
2:U1:1:MET:CE	2:HJ:54:THR:HA	2.25	0.67
2:U1:10:MET:HE2	1:CJ:365:HIS:CE1	2.29	0.67
1:Y1:105:GLU:OE1	1:hG:110:LYS:NZ	2.28	0.67
1:Z1:150:ASN:HD21	2:d7:1:MET:N	1.92	0.67
1:i1:136:ASN:ND2	1:I7:99:MET:SD	2.67	0.67
5:D2:30:PRO:HG3	1:AD:368:GLU:OE2	1.95	0.67
1:C3:14:VAL:HG21	1:SG:14:VAL:CG2	2.25	0.67
1:A3:239:VAL:HG22	2:H3:48:LEU:HD13	1.77	0.67
1:S3:14:VAL:CG2	1:CR:14:VAL:HG21	2.25	0.67
1:T3:136:ASN:ND2	1:IR:99:MET:SD	2.67	0.67
2:a3:3:GLU:O	1:BK:153:LEU:HD22	1.95	0.67
1:S4:14:VAL:CG2	1:IQ:14:VAL:HG21	2.25	0.67
5:E5:64:TRP:CD1	4:BH:30:LEU:H	2.12	0.67
1:I6:14:VAL:HG21	1:aR:14:VAL:CG2	2.25	0.67
1:Q6:35:PHE:CD1	1:LJ:178:TYR:HD1	2.13	0.67
1:S6:28:ASP:OD2	1:AS:305:SER:HB3	1.95	0.67
1:Y6:222:SER:OG	1:SE:53:TYR:HD1	1.77	0.67
1:C7:366:ASN:OD1	1:AK:108:MET:HB2	1.94	0.67
1:S7:14:VAL:CG2	1:QR:14:VAL:HG21	2.25	0.67
1:Y7:63:LEU:CD1	1:JR:89:TYR:CE2	2.76	0.67
2:f7:25:GLU:OE1	1:IR:73:ASN:O	1.93	0.67
1:g7:53:TYR:HD1	1:AE:222:SER:OG	1.77	0.67
1:g7:145:LEU:CD1	1:AE:80:ASP:OD2	2.42	0.67
1:A8:105:GLU:OE1	1:RR:110:LYS:NZ	2.28	0.67
1:g8:367:PRO:CB	1:KS:375:TRP:CD2	2.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A9:6:ARG:HH22	5:DC:52:LEU:CA	1.97	0.67
4:B9:6:MET:HE3	5:FA:38:TYR:HE2	1.56	0.67
3:AA:18:LYS:HE2	5:FC:26:GLU:H	1.59	0.67
5:DB:24:THR:HA	3:AM:6:ARG:C	2.18	0.67
5:EB:64:TRP:HE1	4:BM:30:LEU:H	1.36	0.67
5:EB:64:TRP:HE1	4:BM:29:LYS:HA	1.59	0.67
3:AC:6:ARG:C	5:DN:24:THR:HA	2.18	0.67
3:AC:210:SER:HB2	4:BN:249:GLN:CB	2.23	0.67
1:AD:312:PRO:HD3	1:KK:27:HIS:CB	2.20	0.67
1:KD:136:ASN:HB2	1:IS:126:VAL:HG21	1.76	0.67
1:LD:21:ALA:CA	1:DK:123:ASN:HD21	2.07	0.67
1:LE:108:MET:CE	1:SE:364:PHE:HZ	1.90	0.67
1:TE:105:GLU:OE1	1:ZR:110:LYS:NZ	2.28	0.67
1:aE:80:ASP:OD2	1:CG:145:LEU:CD1	2.42	0.67
1:aE:222:SER:OG	1:CG:53:TYR:HD1	1.77	0.67
1:aE:364:PHE:HZ	1:RG:108:MET:CE	1.90	0.67
1:cE:14:VAL:CG2	1:CG:14:VAL:HG21	2.25	0.67
5:FF:26:GLU:H	3:AM:18:LYS:HE2	1.59	0.67
1:LJ:22:LEU:HD23	1:JS:47:GLU:CA	2.25	0.67
1:AK:170:GLU:CD	1:KP:32:SER:HB3	2.18	0.67
1:CK:312:PRO:HG3	1:jR:27:HIS:CG	2.30	0.67
1:LK:45:MET:HE2	1:KP:16:LYS:H	1.60	0.67
1:LK:47:GLU:CB	1:KP:20:SER:HB2	2.17	0.67
2:MK:2:TYR:CG	1:KP:150:ASN:ND2	2.63	0.67
1:CL:99:MET:SD	1:LL:136:ASN:ND2	2.67	0.67
3:AO:66:ILE:CG2	2:LS:54:THR:O	2.43	0.67
2:fQ:39:ASP:OD1	2:fQ:39:ASP:N	2.24	0.67
2:gQ:1:MET:N	1:iR:150:ASN:HD21	1.92	0.67
1:IS:71:ARG:HB3	1:IS:168:GLU:HG2	1.77	0.67
1:A1:239:VAL:HG22	2:H1:48:LEU:HD13	1.77	0.66
5:F2:37:ASP:OD1	4:BB:14:SER:OG	2.11	0.66
1:B3:150:ASN:HD21	2:FQ:1:MET:N	1.92	0.66
1:I3:120:LEU:HB3	1:I4:37:ASP:OD1	1.94	0.66
2:M4:39:ASP:OD1	2:M4:39:ASP:N	2.24	0.66
1:R4:89:TYR:CE2	1:g8:63:LEU:CD1	2.76	0.66
1:T4:33:TRP:CG	1:BS:174:MET:HB2	2.30	0.66
1:X4:137:ASP:OD2	1:BR:49:PHE:CB	2.39	0.66
1:Y4:105:GLU:OE1	1:J7:110:LYS:NZ	2.28	0.66
2:l4:54:THR:HG22	2:ND:1:MET:HE1	1.76	0.66
1:A6:239:VAL:HG22	2:H6:48:LEU:HD13	1.77	0.66
1:I6:375:TRP:CZ2	1:CL:368:GLU:CG	2.73	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K6:150:ASN:HD21	2:lG:1:MET:N	1.92	0.66
1:g6:35:PHE:CD1	1:LP:178:TYR:HD1	2.13	0.66
1:i6:47:GLU:HG2	1:DJ:22:LEU:HB3	1.75	0.66
1:C7:71:ARG:HH22	1:hR:210:ASN:HD21	1.43	0.66
1:B7:28:ASP:OD2	1:BP:305:SER:HB3	1.95	0.66
1:Y7:53:TYR:HD1	1:QQ:222:SER:OG	1.77	0.66
1:h7:105:GLU:OE1	1:AQ:110:LYS:NZ	2.28	0.66
1:J8:110:LYS:NZ	1:Z8:105:GLU:OE1	2.28	0.66
1:Q8:120:LEU:HB3	1:IG:37:ASP:OD1	1.94	0.66
1:g8:366:ASN:OD1	1:IS:108:MET:HB2	1.94	0.66
2:k8:39:ASP:OD1	2:k8:39:ASP:N	2.24	0.66
3:AA:309:SER:HB2	3:AC:302:TYR:CD2	2.30	0.66
4:BA:29:LYS:HA	5:EH:64:TRP:HE1	1.59	0.66
5:FB:26:GLU:H	3:AF:18:LYS:HE2	1.59	0.66
4:BC:29:LYS:HA	5:EN:64:TRP:HE1	1.60	0.66
1:LD:369:PHE:HZ	1:BK:107:LEU:CG	1.95	0.66
1:BE:239:VAL:HG22	2:JE:48:LEU:HD13	1.77	0.66
1:BE:383:ALA:CB	1:CP:34:THR:O	2.44	0.66
2:JE:3:GLU:O	1:DJ:153:LEU:HD21	1.91	0.66
1:SE:99:MET:SD	1:LG:136:ASN:ND2	2.67	0.66
1:TE:239:VAL:HG22	2:ZE:48:LEU:HD13	1.77	0.66
1:cE:150:ASN:HD21	2:dL:1:MET:N	1.92	0.66
1:gG:61:THR:HG22	1:AL:89:TYR:CE1	2.27	0.66
5:EH:21:ILE:HG23	5:EN:55:LEU:HD21	1.76	0.66
1:DJ:111:ARG:N	1:KP:105:GLU:HG2	2.09	0.66
2:FJ:11:MET:H	2:FJ:14:SER:HB3	1.60	0.66
1:KJ:47:GLU:CA	1:LP:22:LEU:HD23	2.25	0.66
1:KJ:150:ASN:ND2	2:MP:2:TYR:CG	2.63	0.66
1:LK:57:LYS:HD3	1:KP:58:ILE:CG2	2.25	0.66
1:LK:372:VAL:HG11	2:FP:10:MET:CB	2.25	0.66
2:MK:15:TYR:HE2	1:KP:152:ALA:CB	2.07	0.66
1:CL:222:SER:OG	1:YR:53:TYR:HD1	1.77	0.66
1:RL:89:TYR:CE1	1:QR:61:THR:HG22	2.27	0.66
1:YL:99:MET:SD	1:TQ:136:ASN:ND2	2.67	0.66
3:AM:302:TYR:CD2	3:AO:309:SER:HB2	2.30	0.66
6:KN:87:GLU:O	6:KN:91:THR:HG23	1.95	0.66
6:KO:87:GLU:O	6:KO:91:THR:HG23	1.95	0.66
1:BQ:14:VAL:CG2	1:gR:14:VAL:HG21	2.25	0.66
2:EQ:39:ASP:N	2:EQ:39:ASP:OD1	2.24	0.66
1:JQ:239:VAL:HG22	2:PQ:48:LEU:HD13	1.77	0.66
1:I1:368:GLU:CG	1:SE:375:TRP:CZ2	2.73	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R1:87:GLU:OE2	1:CJ:54:LEU:HA	1.96	0.66
1:R1:123:ASN:HD21	1:CJ:21:ALA:CA	2.06	0.66
1:S1:150:ASN:HD21	2:N3:1:MET:N	1.92	0.66
1:X1:71:ARG:HH22	1:J6:210:ASN:HD21	1.43	0.66
4:B2:249:GLN:CB	3:AF:210:SER:HB2	2.23	0.66
1:I3:53:TYR:HD1	1:QL:222:SER:OG	1.77	0.66
2:P3:25:GLU:OE1	1:Q8:73:ASN:O	1.93	0.66
1:C4:82:ILE:CD1	1:aE:142:PHE:O	2.41	0.66
1:J4:105:GLU:OE1	1:h6:110:LYS:NZ	2.28	0.66
1:f4:222:SER:OG	1:gG:53:TYR:HD1	1.77	0.66
4:B5:251:TRP:CD1	3:AH:208:LYS:CD	2.78	0.66
1:g6:31:LYS:HG2	1:LP:314:GLY:HA2	1.78	0.66
1:g6:31:LYS:O	1:LP:125:ILE:CD1	2.43	0.66
1:I7:73:ASN:O	2:iQ:25:GLU:OE1	1.93	0.66
1:I7:222:SER:OG	1:CQ:53:TYR:HD1	1.77	0.66
1:Q7:63:LEU:CD1	1:RQ:89:TYR:CE2	2.76	0.66
1:I8:14:VAL:HG21	1:KR:14:VAL:CG2	2.25	0.66
1:J8:239:VAL:HG22	2:P8:48:LEU:HD13	1.77	0.66
1:g8:30:SER:HA	1:KS:315:ALA:CA	2.24	0.66
1:g8:35:PHE:CD1	1:KS:178:TYR:HD1	2.13	0.66
2:n8:55:GLY:HA2	2:fR:2:TYR:HB2	1.78	0.66
5:E9:64:TRP:HE1	4:BB:29:LYS:HA	1.59	0.66
3:AA:254:LEU:HD11	3:AA:271:ARG:HG3	1.77	0.66
6:KB:87:GLU:O	6:KB:91:THR:HG23	1.95	0.66
3:AC:114:PHE:HB2	2:MP:51:GLN:CB	2.24	0.66
1:AD:108:MET:HB2	1:YG:366:ASN:OD1	1.94	0.66
1:BD:108:MET:HE2	1:KS:369:PHE:CG	2.30	0.66
1:CD:51:ASN:OD1	1:YG:141:ASN:OD1	2.13	0.66
2:FD:11:MET:H	2:FD:14:SER:HB3	1.60	0.66
1:DE:221:ALA:C	1:BP:38:LYS:HG2	2.21	0.66
1:ME:47:GLU:CB	1:QQ:20:SER:HB2	2.20	0.66
1:ZG:105:GLU:OE1	1:AL:110:LYS:NZ	2.28	0.66
1:LJ:22:LEU:HD13	1:JS:49:PHE:HB2	1.77	0.66
1:LJ:143:GLN:C	1:CS:82:ILE:HG12	2.19	0.66
6:KM:87:GLU:O	6:KM:91:THR:HG23	1.95	0.66
2:NP:22:LYS:HD3	2:NP:24:THR:H	1.60	0.66
1:KQ:150:ASN:HD21	2:dR:1:MET:N	1.92	0.66
2:cR:39:ASP:N	2:cR:39:ASP:OD1	2.24	0.66
2:W1:25:GLU:OE1	1:Q6:73:ASN:O	1.93	0.66
3:A2:302:TYR:CD2	3:AB:309:SER:HB2	2.30	0.66
4:B2:29:LYS:HA	5:EA:64:TRP:HE1	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H3:2:TYR:HB2	2:P4:55:GLY:HA2	1.78	0.66
1:C4:14:VAL:HG21	1:BG:14:VAL:CG2	2.25	0.66
2:H4:55:GLY:HA2	2:HQ:2:TYR:HB2	1.78	0.66
1:X4:368:GLU:CG	1:CR:375:TRP:CZ2	2.73	0.66
1:g4:64:ILE:HG13	2:j4:53:PHE:HD2	1.58	0.66
1:i4:27:HIS:CG	1:CD:312:PRO:HG3	2.30	0.66
1:i4:27:HIS:N	1:LD:100:ASP:CG	2.47	0.66
3:A5:6:ARG:C	5:DO:24:THR:HA	2.18	0.66
3:A5:150:TYR:N	3:AN:37:GLU:OE2	2.20	0.66
1:Z6:239:VAL:HG22	2:f6:48:LEU:HD13	1.77	0.66
1:g6:208:LEU:HD11	1:g6:391:ILE:HD13	1.46	0.66
1:A7:239:VAL:HG22	2:H7:48:LEU:HD13	1.77	0.66
1:Q7:80:ASP:OD2	1:QR:145:LEU:CD1	2.42	0.66
1:a7:14:VAL:CG2	1:KE:14:VAL:HG21	2.25	0.66
1:A8:239:VAL:HG22	2:H8:48:LEU:HD13	1.77	0.66
2:V8:1:MET:N	1:SL:150:ASN:HD21	1.92	0.66
1:Z8:64:ILE:HG13	2:d8:53:PHE:HD2	1.58	0.66
1:i8:28:ASP:OD2	1:BD:305:SER:HB3	1.95	0.66
3:A9:66:ILE:HD12	1:AK:153:LEU:HD13	1.76	0.66
1:KD:16:LYS:H	1:KS:45:MET:HE2	1.60	0.66
1:KD:104:ASN:O	1:KK:369:PHE:CE2	2.49	0.66
1:LD:356:THR:HG23	2:ND:23:ARG:HE	1.59	0.66
2:MD:15:TYR:HE2	1:KK:152:ALA:CB	2.07	0.66
2:GE:3:GLU:O	1:BP:153:LEU:HD22	1.95	0.66
1:aE:375:TRP:CZ2	1:CG:368:GLU:CG	2.73	0.66
1:CG:73:ASN:O	2:fL:25:GLU:OE1	1.93	0.66
1:BG:150:ASN:HD21	2:VG:1:MET:N	1.92	0.66
2:kG:39:ASP:OD1	2:kG:39:ASP:N	2.24	0.66
1:KJ:105:GLU:O	1:CS:109:LEU:HD12	1.90	0.66
1:LJ:57:LYS:HD3	1:JS:58:ILE:CG2	2.25	0.66
2:NJ:10:MET:HA	2:NJ:14:SER:HB2	1.76	0.66
1:BK:17:SER:CB	1:jR:44:THR:C	2.68	0.66
1:CK:133:LEU:HD23	2:kR:11:MET:CG	2.25	0.66
1:LK:45:MET:CE	1:KP:16:LYS:N	2.58	0.66
1:LK:369:PHE:CG	1:BP:108:MET:HE2	2.30	0.66
1:BL:14:VAL:CG2	1:YR:14:VAL:HG21	2.25	0.66
1:RL:64:ILE:HG13	2:VL:53:PHE:HD2	1.58	0.66
1:YL:142:PHE:O	1:QR:82:ILE:CD1	2.41	0.66
3:AO:36:LEU:HD23	1:IS:139:ARG:CZ	2.25	0.66
3:AO:155:GLU:HB2	1:IS:143:GLN:HB3	1.76	0.66
2:UR:45:ILE:CG1	2:UR:46:HIS:N	2.36	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MS:22:LYS:HD3	2:MS:24:THR:H	1.60	0.66
1:D1:136:ASN:ND2	1:gG:99:MET:SD	2.67	0.66
2:H1:2:TYR:CD1	2:fG:55:GLY:C	2.74	0.66
1:J1:20:SER:HG	1:J1:21:ALA:N	1.93	0.66
1:K1:14:VAL:CG2	1:Y6:14:VAL:HG21	2.25	0.66
1:X1:14:VAL:HG21	1:K8:14:VAL:CG2	2.25	0.66
4:B2:251:TRP:CD1	3:AF:208:LYS:CD	2.78	0.66
2:X3:2:TYR:CD1	2:P6:55:GLY:C	2.74	0.66
1:b3:109:LEU:HD13	1:LD:106:GLU:HA	1.77	0.66
1:C4:375:TRP:CZ2	1:aE:368:GLU:CG	2.73	0.66
1:R4:239:VAL:HG22	2:W4:48:LEU:HD13	1.77	0.66
2:U4:11:MET:CG	1:BS:133:LEU:HD23	2.25	0.66
2:e4:55:GLY:C	2:H6:2:TYR:CD1	2.74	0.66
1:g4:119:LYS:HE2	1:CD:38:LYS:HG2	1.75	0.66
2:j4:1:MET:CE	2:HD:54:THR:HA	2.25	0.66
1:D6:136:ASN:ND2	1:bQ:99:MET:SD	2.67	0.66
1:A7:108:MET:CE	1:I7:364:PHE:HZ	1.90	0.66
1:K7:14:VAL:CG2	1:CQ:14:VAL:HG21	2.25	0.66
1:Y7:368:GLU:CG	1:QQ:375:TRP:CZ2	2.73	0.66
1:C8:222:SER:OG	1:AE:53:TYR:HD1	1.77	0.66
2:H8:55:GLY:C	2:X8:2:TYR:CD1	2.74	0.66
1:S8:14:VAL:CG2	1:IG:14:VAL:HG21	2.25	0.66
1:Y8:222:SER:OG	1:bQ:53:TYR:HD1	1.77	0.66
1:j8:136:ASN:ND2	1:IL:99:MET:SD	2.67	0.66
4:B9:251:TRP:CD1	3:AB:208:LYS:CD	2.78	0.66
5:FC:32:TYR:C	5:FH:50:SER:HB2	2.21	0.66
1:DD:96:PRO:HD2	1:KD:166:LEU:HG	1.78	0.66
1:LD:375:TRP:CD2	1:YG:367:PRO:CB	2.76	0.66
1:DE:109:LEU:HD13	1:LP:106:GLU:HA	1.77	0.66
1:LE:110:LYS:NZ	1:JG:105:GLU:OE1	2.28	0.66
1:AG:64:ILE:HD11	1:BG:88:GLU:CG	2.26	0.66
2:MG:39:ASP:N	2:MG:39:ASP:OD1	2.24	0.66
2:PG:55:GLY:HA2	2:PQ:2:TYR:HB2	1.78	0.66
1:RG:239:VAL:HG22	2:XG:48:LEU:HD13	1.77	0.66
3:AI:193:ILE:CG1	5:EM:37:ASP:OD2	2.37	0.66
3:AI:309:SER:HB2	3:AO:302:TYR:CD2	2.30	0.66
1:AJ:62:LEU:HD23	1:KJ:88:GLU:HB3	1.76	0.66
1:LJ:157:LYS:NZ	2:ES:2:TYR:HE2	1.94	0.66
1:JL:239:VAL:HG22	2:PL:48:LEU:HD13	1.77	0.66
1:QL:71:ARG:NH2	1:RR:210:ASN:ND2	2.29	0.66
1:J1:239:VAL:HG22	2:P1:48:LEU:HD13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P1:55:GLY:C	2:P3:2:TYR:CD1	2.74	0.66
1:Q1:99:MET:SD	1:L3:136:ASN:ND2	2.67	0.66
1:R1:109:LEU:O	1:AJ:105:GLU:CG	2.41	0.66
1:Y1:110:LYS:NZ	1:JL:105:GLU:OE1	2.28	0.66
1:Y1:239:VAL:HG22	2:e1:48:LEU:HD13	1.77	0.66
1:g1:105:GLU:OE1	1:A7:110:LYS:NZ	2.28	0.66
1:I3:14:VAL:HG21	1:SL:14:VAL:CG2	2.25	0.66
1:J3:64:ILE:HD11	1:K3:88:GLU:CG	2.26	0.66
1:K3:14:VAL:CG2	1:I4:14:VAL:HG21	2.25	0.66
1:Q3:14:VAL:HG21	1:Z4:14:VAL:CG2	2.25	0.66
1:C4:53:TYR:HD1	1:CG:222:SER:OG	1.77	0.66
1:L4:136:ASN:ND2	1:g7:99:MET:SD	2.67	0.66
1:R4:64:ILE:HD11	1:S4:88:GLU:CG	2.26	0.66
1:R4:383:ALA:CB	1:BS:34:THR:O	2.44	0.66
1:X4:53:TYR:HD1	1:CR:222:SER:OG	1.77	0.66
1:Y4:64:ILE:HD11	1:Z4:88:GLU:CG	2.26	0.66
1:g4:105:GLU:N	1:BK:110:LYS:HZ3	1.88	0.66
1:g4:202:PHE:HD2	1:YG:248:SER:HG	1.41	0.66
1:h4:105:GLU:CB	1:LD:109:LEU:HD21	1.97	0.66
5:F5:26:GLU:H	3:AN:18:LYS:HE2	1.59	0.66
1:g6:58:ILE:CB	1:CP:55:PHE:CD2	2.79	0.66
1:g6:82:ILE:CD1	1:DJ:142:PHE:O	2.43	0.66
1:I7:368:GLU:CG	1:gR:375:TRP:CZ2	2.73	0.66
2:X7:2:TYR:CD1	2:PR:55:GLY:C	2.74	0.66
1:Y7:82:ILE:CD1	1:KE:142:PHE:O	2.41	0.66
1:g7:375:TRP:CZ2	1:C8:368:GLU:CG	2.73	0.66
1:I8:137:ASP:OD2	1:KR:49:PHE:CB	2.39	0.66
1:T8:136:ASN:ND2	1:QL:99:MET:SD	2.67	0.66
2:f8:55:GLY:C	2:hE:2:TYR:CD1	2.74	0.66
4:B9:251:TRP:CD1	3:AB:208:LYS:HD2	2.31	0.66
4:BA:197:SER:OG	4:BC:142:SER:OG	2.10	0.66
6:KA:87:GLU:O	6:KA:91:THR:HG23	1.95	0.66
5:FB:50:SER:HB2	5:FF:32:TYR:C	2.21	0.66
1:BD:105:GLU:C	1:KS:369:PHE:CE2	2.66	0.66
1:CD:55:PHE:CD2	1:YG:58:ILE:CB	2.79	0.66
1:DD:104:ASN:HD21	5:DF:25:ARG:HH22	1.40	0.66
1:LD:157:LYS:NZ	2:FK:2:TYR:HE2	1.94	0.66
2:MD:2:TYR:CG	1:KK:150:ASN:ND2	2.63	0.66
1:BE:87:GLU:OE2	1:CP:54:LEU:HA	1.95	0.66
1:CG:99:MET:SD	1:TG:136:ASN:ND2	2.67	0.66
2:HG:55:GLY:C	2:XL:2:TYR:CD1	2.74	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RG:64:ILE:HD11	1:SG:88:GLU:CG	2.26	0.66
1:YG:82:ILE:CD1	1:DK:142:PHE:O	2.42	0.66
1:ZG:64:ILE:HD11	1:aG:88:GLU:CG	2.26	0.66
1:aG:50:VAL:HG23	1:DK:137:ASP:CG	2.11	0.66
1:aG:50:VAL:CG2	1:DK:137:ASP:CG	2.69	0.66
2:fG:2:TYR:CD1	2:HL:55:GLY:C	2.74	0.66
5:FI:32:TYR:C	5:FO:50:SER:HB2	2.21	0.66
1:DJ:123:ASN:HD21	1:LP:21:ALA:CA	2.06	0.66
1:DJ:123:ASN:HD22	1:LP:21:ALA:CB	2.04	0.66
1:DJ:316:VAL:HG12	1:LP:31:LYS:CD	2.04	0.66
1:LJ:45:MET:HE2	1:JS:16:LYS:H	1.60	0.66
1:LJ:372:VAL:HG11	2:ES:10:MET:CB	2.25	0.66
1:CK:174:MET:HB2	1:jR:33:TRP:CG	2.30	0.66
2:XL:25:GLU:OE1	1:QR:73:ASN:O	1.93	0.66
1:YL:368:GLU:CG	1:QR:375:TRP:CZ2	2.73	0.66
3:AO:254:LEU:HD11	3:AO:271:ARG:HG3	1.77	0.66
1:LP:356:THR:HG23	2:NP:23:ARG:HE	1.59	0.66
1:JR:64:ILE:HD11	1:KR:88:GLU:CG	2.26	0.66
1:I1:222:SER:OG	1:Y6:53:TYR:HD1	1.77	0.66
1:R1:64:ILE:HG13	2:U1:53:PHE:HD2	1.58	0.66
1:S1:14:VAL:CG2	1:Q8:14:VAL:HG21	2.25	0.66
2:U1:11:MET:CG	1:CJ:133:LEU:HD23	2.25	0.66
2:W1:11:MET:CE	1:CS:372:VAL:HG21	2.26	0.66
1:X1:375:TRP:CZ2	1:IR:368:GLU:CG	2.73	0.66
1:i1:325:LYS:HB2	1:i1:325:LYS:HZ2	1.58	0.66
2:m1:55:GLY:C	2:iQ:2:TYR:CD1	2.74	0.66
3:A2:309:SER:HB2	3:A9:302:TYR:CD2	2.30	0.66
4:B2:251:TRP:CD1	3:AF:208:LYS:HD2	2.31	0.66
2:V3:1:MET:N	1:KR:150:ASN:HD21	1.92	0.66
2:d3:3:GLU:O	1:BD:153:LEU:HD22	1.95	0.66
1:R4:174:MET:HG3	1:BS:33:TRP:CD1	2.31	0.66
2:e4:2:TYR:CD1	2:P7:55:GLY:C	2.74	0.66
1:i4:25:PHE:O	1:LD:100:ASP:HA	1.94	0.66
1:Q6:45:MET:HB3	1:CJ:19:LYS:HG2	1.66	0.66
1:R6:64:ILE:HD11	1:S6:88:GLU:CG	2.26	0.66
1:Y6:63:LEU:CD1	1:LE:89:TYR:CE2	2.76	0.66
2:d6:1:MET:N	1:a7:150:ASN:HD21	1.92	0.66
1:h6:89:TYR:CE2	1:AE:63:LEU:CD1	2.76	0.66
1:h6:108:MET:CE	1:g7:364:PHE:HZ	1.90	0.66
1:i6:50:VAL:CG2	1:DJ:137:ASP:CG	2.69	0.66
1:C7:31:LYS:O	1:LK:125:ILE:CD1	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:369:PHE:HA	1:AK:99:MET:HE1	1.78	0.66
1:B8:14:VAL:CG2	1:AE:14:VAL:HG21	2.25	0.66
2:P8:55:GLY:C	2:f8:2:TYR:CD1	2.74	0.66
1:R8:64:ILE:HD11	1:S8:88:GLU:CG	2.26	0.66
1:g8:57:LYS:HG3	1:BS:143:GLN:NE2	2.09	0.66
1:g8:58:ILE:CB	1:BS:55:PHE:CD2	2.79	0.66
3:AA:208:LYS:HD2	4:BH:251:TRP:CD1	2.31	0.66
3:AC:254:LEU:HD11	3:AC:271:ARG:HG3	1.77	0.66
1:DD:119:LYS:HZ3	1:KS:38:LYS:HG3	1.50	0.66
2:JE:11:MET:HE3	1:DJ:372:VAL:HG21	1.73	0.66
2:JE:11:MET:CE	1:DJ:372:VAL:HG21	2.26	0.66
1:DG:325:LYS:HB2	1:DG:325:LYS:HZ2	1.61	0.66
2:PG:55:GLY:C	2:PQ:2:TYR:CD1	2.74	0.66
1:aG:47:GLU:CG	1:DK:22:LEU:HB2	2.26	0.66
5:FH:32:TYR:C	5:FN:50:SER:HB2	2.21	0.66
3:AI:32:PHE:HZ	1:IS:54:LEU:CB	2.08	0.66
1:AJ:63:LEU:HD23	1:KJ:89:TYR:CE2	2.31	0.66
1:LJ:369:PHE:CG	1:AS:108:MET:HE2	2.30	0.66
1:AK:60:GLU:CG	1:KK:87:GLU:H	2.09	0.66
2:HK:54:THR:HA	2:kR:1:MET:CE	2.25	0.66
1:LK:55:PHE:HB3	1:DP:87:GLU:CD	2.21	0.66
1:CL:375:TRP:CZ2	1:YR:368:GLU:CG	2.73	0.66
1:YL:137:ASP:OD2	1:SR:49:PHE:CB	2.39	0.66
1:YL:145:LEU:CD1	1:QR:80:ASP:OD2	2.42	0.66
1:ZL:64:ILE:HD11	1:aL:88:GLU:CG	2.26	0.66
1:AP:71:ARG:HB3	1:AP:168:GLU:HG2	1.77	0.66
2:FP:11:MET:H	2:FP:14:SER:HB3	1.60	0.66
1:RR:64:ILE:HD11	1:SR:88:GLU:CG	2.26	0.66
1:IS:63:LEU:HD23	1:JS:89:TYR:CE2	2.30	0.66
2:E1:45:ILE:CG1	2:E1:46:HIS:N	2.36	0.66
2:H1:2:TYR:HB2	2:fG:55:GLY:HA2	1.78	0.66
2:P1:2:TYR:CD1	2:X6:55:GLY:C	2.74	0.66
1:g1:239:VAL:HG22	2:m1:48:LEU:HD13	1.77	0.66
1:h1:14:VAL:CG2	1:QG:14:VAL:HG21	2.25	0.66
5:F2:50:SER:HB2	5:FB:32:TYR:C	2.21	0.66
1:C3:53:TYR:HD1	1:QG:222:SER:OG	1.77	0.66
1:A3:110:LYS:NZ	1:h6:105:GLU:OE1	2.28	0.66
2:P3:55:GLY:C	2:X6:2:TYR:CD1	2.74	0.66
1:Q3:142:PHE:O	1:X4:82:ILE:CD1	2.41	0.66
1:Y3:375:TRP:CZ3	1:BK:367:PRO:HG2	2.31	0.66
2:a3:2:TYR:HE2	1:BK:157:LYS:HZ2	1.16	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H4:55:GLY:C	2:HQ:2:TYR:CD1	2.74	0.66
2:W4:11:MET:CE	1:DD:372:VAL:HG21	2.26	0.66
1:X4:248:SER:HG	1:Z8:202:PHE:HD2	1.41	0.66
1:f4:14:VAL:HG21	1:B6:14:VAL:CG2	2.25	0.66
1:g4:64:ILE:HD11	1:h4:88:GLU:CG	2.26	0.66
5:F5:50:SER:HB2	5:FN:32:TYR:C	2.21	0.66
1:C6:53:TYR:HD1	1:gG:222:SER:OG	1.77	0.66
1:I6:53:TYR:HD1	1:YR:222:SER:OG	1.77	0.66
1:Q6:57:LYS:HG3	1:CJ:143:GLN:NE2	2.09	0.66
2:f6:55:GLY:C	2:PR:2:TYR:CD1	2.74	0.66
1:C7:35:PHE:CD1	1:LK:178:TYR:HD1	2.13	0.66
1:I7:63:LEU:CD1	1:cQ:89:TYR:CE2	2.76	0.66
1:Y7:142:PHE:O	1:QQ:82:ILE:CD1	2.41	0.66
1:Y7:375:TRP:CZ2	1:KE:368:GLU:CG	2.73	0.66
1:B8:49:PHE:CB	1:AE:137:ASP:OD2	2.39	0.66
2:H8:2:TYR:CD1	2:XR:55:GLY:C	2.74	0.66
2:X8:55:GLY:C	2:XR:2:TYR:CD1	2.74	0.66
1:Z8:64:ILE:HD11	1:a8:88:GLU:CG	2.26	0.66
2:n8:55:GLY:C	2:fR:2:TYR:CD1	2.74	0.66
1:AD:140:PHE:C	3:AF:29:ARG:CD	2.65	0.66
1:LD:125:ILE:CD1	1:YG:31:LYS:O	2.43	0.66
1:LE:105:GLU:OE1	1:JQ:110:LYS:NZ	2.28	0.66
2:XG:2:TYR:CD1	2:HR:55:GLY:C	2.74	0.66
1:hG:89:TYR:CE2	1:CL:63:LEU:CD1	2.76	0.66
2:nG:2:TYR:CD1	2:PL:55:GLY:C	2.74	0.66
1:KJ:136:ASN:HB2	1:AP:126:VAL:HG21	1.76	0.66
1:LJ:55:PHE:HB3	1:CS:87:GLU:CD	2.21	0.66
2:MJ:2:TYR:CG	1:JS:150:ASN:ND2	2.63	0.66
1:ZL:64:ILE:HG13	2:dL:53:PHE:HD2	1.58	0.66
3:AN:254:LEU:HD11	3:AN:271:ARG:HG3	1.77	0.66
1:AP:63:LEU:HD23	1:KP:89:TYR:CE2	2.30	0.66
1:CQ:82:ILE:CD1	1:gR:142:PHE:O	2.41	0.66
1:C1:82:ILE:CD1	1:Y8:142:PHE:O	2.41	0.66
1:B1:14:VAL:CG2	1:Y8:14:VAL:HG21	2.25	0.66
1:I1:71:ARG:NH2	1:JG:210:ASN:ND2	2.29	0.66
2:P1:55:GLY:HA2	2:P3:2:TYR:HB2	1.78	0.66
1:Q1:20:SER:HB2	1:KG:47:GLU:CB	2.20	0.66
1:f1:99:MET:SD	1:D4:136:ASN:ND2	2.67	0.66
2:H3:2:TYR:CD1	2:P4:55:GLY:C	2.74	0.66
1:Q3:53:TYR:HD1	1:X4:222:SER:OG	1.77	0.66
2:X3:55:GLY:C	2:f7:2:TYR:CD1	2.74	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H4:2:TYR:CD1	2:n7:55:GLY:C	2.74	0.66
2:e4:55:GLY:HA2	2:H6:2:TYR:HB2	1.78	0.66
2:P6:2:TYR:CD1	2:f7:55:GLY:C	2.74	0.66
1:C7:139:ARG:NH1	1:LK:81:PHE:CD2	2.44	0.66
1:C7:141:ASN:OD1	1:CK:51:ASN:OD1	2.13	0.66
2:H7:25:GLU:OE1	1:gR:73:ASN:O	1.93	0.66
1:I7:375:TRP:CZ2	1:CQ:368:GLU:CG	2.73	0.66
1:a7:47:GLU:CB	1:KE:20:SER:HB2	2.20	0.66
1:i8:57:LYS:HD2	1:DD:143:GLN:CG	2.19	0.66
2:n8:2:TYR:CD1	2:ZE:55:GLY:C	2.74	0.66
3:A9:254:LEU:HD11	3:A9:271:ARG:HG3	1.77	0.66
5:FA:31:PHE:CG	5:FC:46:TYR:CD1	2.61	0.66
3:AB:152:SER:CB	1:AD:135:ASN:CG	2.52	0.66
5:EC:18:LEU:HD21	5:DH:61:ARG:HE	1.61	0.66
5:CC:266:THR:N	5:NH:230:SER:O	2.29	0.66
1:LD:22:LEU:HD23	1:KK:47:GLU:CA	2.25	0.66
1:BE:174:MET:HG3	1:CP:33:TRP:CD1	2.31	0.66
2:XG:55:GLY:C	2:fL:2:TYR:CD1	2.74	0.66
1:YG:310:THR:CB	1:DK:27:HIS:CE1	2.79	0.66
1:aG:57:LYS:CE	1:DK:143:GLN:OE1	2.44	0.66
5:EI:64:TRP:CD1	4:BN:30:LEU:H	2.12	0.66
5:CI:266:THR:N	5:NO:230:SER:O	2.29	0.66
1:AJ:71:ARG:HB3	1:AJ:168:GLU:HG2	1.77	0.66
1:KJ:51:ASN:HD22	1:AP:116:MET:HG3	1.55	0.66
1:KJ:104:ASN:O	1:JS:369:PHE:CE2	2.49	0.66
1:KK:105:GLU:C	1:DP:109:LEU:HD11	2.08	0.66
2:XL:55:GLY:C	2:XQ:2:TYR:CD1	2.74	0.66
2:fL:55:GLY:C	2:HR:2:TYR:CD1	2.74	0.66
3:AM:254:LEU:HD11	3:AM:271:ARG:HG3	1.77	0.66
5:FM:37:ASP:OD1	4:BO:14:SER:OG	2.11	0.66
5:FM:50:SER:HB2	5:FO:32:TYR:C	2.21	0.66
3:AO:66:ILE:HG22	2:LS:54:THR:C	2.20	0.66
3:AO:154:ILE:N	1:IS:145:LEU:HD23	2.11	0.66
1:cQ:239:VAL:HG22	2:iQ:48:LEU:HD13	1.77	0.66
1:C1:53:TYR:HD1	1:bQ:222:SER:OG	1.77	0.66
1:K1:49:PHE:CB	1:Y6:137:ASP:OD2	2.39	0.66
3:A2:208:LYS:HE2	4:BA:251:TRP:CD1	2.31	0.66
5:E2:64:TRP:CE2	4:BF:30:LEU:CA	2.79	0.66
1:S3:49:PHE:CB	1:CR:137:ASP:OD2	2.39	0.66
2:X3:2:TYR:HB2	2:P6:55:GLY:HA2	1.78	0.66
2:a3:2:TYR:CZ	1:BK:157:LYS:NZ	2.52	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:109:LEU:C	1:LD:105:GLU:CG	2.60	0.66
1:C4:80:ASP:OD2	1:aE:145:LEU:CD1	2.42	0.66
1:C4:142:PHE:O	1:CG:82:ILE:CD1	2.41	0.66
1:Q4:14:VAL:HG21	1:KL:14:VAL:CG2	2.25	0.66
1:T4:27:HIS:CG	1:BS:312:PRO:HG3	2.30	0.66
1:T4:29:TYR:N	1:KS:98:ASN:HD21	1.93	0.66
2:U4:1:MET:CE	2:GS:54:THR:HA	2.25	0.66
2:W4:5:ASN:H	1:DD:153:LEU:CD1	2.08	0.66
1:g4:316:VAL:CG2	1:CD:31:LYS:HD3	2.26	0.66
2:l4:11:MET:CE	1:DK:372:VAL:HG21	2.26	0.66
3:A5:112:ILE:CG1	2:MJ:27:ASN:ND2	2.42	0.66
4:B5:197:SER:OG	4:BI:142:SER:OG	2.09	0.66
5:E5:64:TRP:HE1	4:BH:29:LYS:HA	1.59	0.66
1:A6:110:LYS:NZ	1:J7:105:GLU:OE1	2.28	0.66
1:Q6:30:SER:HA	1:LJ:315:ALA:HB2	1.78	0.66
1:Q6:369:PHE:HA	1:AJ:99:MET:HE1	1.78	0.66
1:S6:50:VAL:CG2	1:CS:137:ASP:CG	2.69	0.66
1:i6:28:ASP:OD2	1:BJ:305:SER:HB3	1.95	0.66
1:R7:64:ILE:HD11	1:S7:88:GLU:CG	2.26	0.66
2:H8:55:GLY:HA2	2:X8:2:TYR:HB2	1.78	0.66
1:Q8:82:ILE:CD1	1:IG:142:PHE:O	2.41	0.66
1:Y8:375:TRP:CZ2	1:bQ:368:GLU:CG	2.73	0.66
1:g8:31:LYS:O	1:KS:125:ILE:CD1	2.43	0.66
5:F9:32:TYR:C	5:FA:50:SER:HB2	2.21	0.66
3:AA:114:PHE:N	2:MK:8:ARG:C	2.53	0.66
3:AA:210:SER:OG	4:BH:249:GLN:C	2.39	0.66
5:FA:32:TYR:C	5:FC:50:SER:HB2	2.21	0.66
2:FD:2:TYR:HE2	1:KS:157:LYS:HZ3	1.39	0.66
1:LD:35:PHE:HE1	1:DK:384:ILE:CD1	2.08	0.66
2:HE:11:MET:CG	1:CP:133:LEU:HD23	2.25	0.66
1:ME:14:VAL:CG2	1:QQ:14:VAL:HG21	2.25	0.66
4:BF:251:TRP:CD1	3:AO:208:LYS:HD2	2.31	0.66
6:KF:87:GLU:O	6:KF:91:THR:HG23	1.95	0.66
1:RG:110:LYS:NZ	1:ZL:105:GLU:OE1	2.28	0.66
2:XG:55:GLY:HA2	2:fL:2:TYR:HB2	1.78	0.66
1:hG:239:VAL:HG22	2:nG:48:LEU:HD13	1.77	0.66
3:AH:112:ILE:H	2:MP:19:ARG:HH21	0.67	0.66
3:AI:254:LEU:HD11	3:AI:271:ARG:HG3	1.77	0.66
4:BI:251:TRP:CD1	3:AN:208:LYS:HD2	2.31	0.66
6:KI:87:GLU:O	6:KI:91:THR:HG23	1.95	0.66
1:DJ:87:GLU:CD	1:LP:55:PHE:HB3	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:57:LYS:HB3	1:jR:143:GLN:HB3	1.77	0.66
1:LK:22:LEU:HD23	1:KP:47:GLU:CA	2.25	0.66
1:AL:64:ILE:HD11	1:BL:88:GLU:CG	2.26	0.66
2:XL:55:GLY:HA2	2:XQ:2:TYR:HB2	1.78	0.66
1:DP:96:PRO:HD2	1:KP:166:LEU:HG	1.78	0.66
1:R1:105:GLU:N	1:AS:110:LYS:HZ3	1.85	0.66
1:R1:174:MET:HG3	1:CJ:33:TRP:CD1	2.31	0.66
1:R1:316:VAL:CG2	1:CJ:31:LYS:HD3	2.26	0.66
3:A2:208:LYS:HD2	4:BA:251:TRP:CD1	2.31	0.66
5:E2:64:TRP:CD1	4:BF:30:LEU:H	2.12	0.66
5:F2:32:TYR:C	5:F9:50:SER:HB2	2.21	0.66
1:R3:210:ASN:ND2	1:I8:71:ARG:NH2	2.29	0.66
1:R3:239:VAL:HG22	2:X3:48:LEU:HD13	1.77	0.66
1:X4:14:VAL:HG21	1:BR:14:VAL:CG2	2.25	0.66
1:f4:63:LEU:CD1	1:ZG:89:TYR:CE2	2.76	0.66
1:f4:142:PHE:O	1:C6:82:ILE:CD1	2.41	0.66
3:A5:8:LEU:O	5:DO:48:TYR:CD1	2.49	0.66
5:C5:266:THR:N	5:NI:230:SER:O	2.29	0.66
1:I6:142:PHE:O	1:YR:82:ILE:CD1	2.41	0.66
1:J6:239:VAL:HG22	2:P6:48:LEU:HD13	1.77	0.66
1:Q6:141:ASN:OD1	1:CJ:51:ASN:OD1	2.13	0.66
1:R6:20:SER:HG	1:R6:21:ALA:N	1.94	0.66
2:f6:2:TYR:CD1	2:X7:55:GLY:C	2.74	0.66
1:i6:57:LYS:CE	1:DJ:143:GLN:OE1	2.44	0.66
1:i6:368:GLU:OE2	1:CJ:107:LEU:HD21	1.94	0.66
1:B7:144:THR:CA	1:BP:82:ILE:HD11	1.83	0.66
1:K7:49:PHE:CB	1:CQ:137:ASP:OD2	2.39	0.66
1:S7:49:PHE:CB	1:QR:137:ASP:OD2	2.39	0.66
1:Y7:137:ASP:OD2	1:SQ:49:PHE:CB	2.39	0.66
2:f8:55:GLY:HA2	2:hE:2:TYR:HB2	1.78	0.66
1:g8:30:SER:HA	1:KS:315:ALA:HB2	1.78	0.66
3:A9:208:LYS:HD2	4:BC:251:TRP:CD1	2.31	0.66
4:B9:29:LYS:HA	5:EC:64:TRP:HE1	1.59	0.66
3:AC:208:LYS:HE2	4:BN:251:TRP:CD1	2.31	0.66
1:AD:63:LEU:HD23	1:KD:89:TYR:CE2	2.31	0.66
1:KD:80:ASP:HB3	3:AF:65:ASN:CG	2.20	0.66
1:KD:98:ASN:HD22	1:KK:30:SER:HB3	1.54	0.66
1:BE:312:PRO:HD3	1:CP:27:HIS:CG	2.31	0.66
1:aE:82:ILE:CD1	1:CG:142:PHE:O	2.41	0.66
1:aG:28:ASP:OD2	1:BK:305:SER:HB3	1.95	0.66
5:DI:48:TYR:CD1	3:AN:8:LEU:O	2.49	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EI:64:TRP:CE2	4:BN:30:LEU:CA	2.79	0.66
2:FJ:10:MET:CB	1:LP:372:VAL:HG11	2.25	0.66
1:KJ:16:LYS:H	1:LP:45:MET:HE2	1.60	0.66
1:AK:173:ALA:HB1	1:KP:33:TRP:CH2	2.31	0.66
1:CK:38:LYS:C	1:hR:222:SER:HB2	2.21	0.66
1:CK:54:LEU:HA	1:hR:87:GLU:OE2	1.96	0.66
5:NM:231:ASN:CB	5:CO:265:LEU:CD2	2.71	0.66
3:AO:65:ASN:N	1:IS:146:ALA:CB	2.53	0.66
1:JQ:64:ILE:HD11	1:KQ:88:GLU:CG	2.26	0.66
1:YQ:221:ALA:C	1:AS:38:LYS:HG2	2.21	0.66
1:cQ:64:ILE:HD11	1:dQ:88:GLU:CG	2.26	0.66
1:hR:239:VAL:HG22	2:mR:48:LEU:HD13	1.77	0.66
1:C1:14:VAL:HG21	1:dQ:14:VAL:CG2	2.25	0.65
1:A1:110:LYS:NZ	1:AL:105:GLU:OE1	2.28	0.65
1:I1:14:VAL:HG21	1:UE:14:VAL:CG2	2.25	0.65
1:J1:64:ILE:HD11	1:K1:88:GLU:CG	2.26	0.65
1:T1:51:ASN:CG	1:CJ:116:MET:CE	2.63	0.65
2:W1:5:ASN:H	1:CS:153:LEU:CD1	2.08	0.65
1:X1:53:TYR:HD1	1:I8:222:SER:OG	1.77	0.65
1:X1:137:ASP:OD2	1:K8:49:PHE:CB	2.39	0.65
1:f1:14:VAL:HG21	1:B3:14:VAL:CG2	2.25	0.65
2:m1:55:GLY:HA2	2:iQ:2:TYR:HB2	1.78	0.65
5:D2:48:TYR:CD1	3:AF:8:LEU:O	2.49	0.65
5:E2:18:LEU:HD21	5:D9:61:ARG:HE	1.61	0.65
1:A3:64:ILE:HD11	1:B3:88:GLU:CG	2.26	0.65
1:Q3:99:MET:SD	1:dE:136:ASN:ND2	2.67	0.65
1:Q3:222:SER:OG	1:CR:53:TYR:HD1	1.77	0.65
1:R3:64:ILE:HD11	1:S3:88:GLU:CG	2.26	0.65
1:B4:49:PHE:CB	1:aE:137:ASP:OD2	2.39	0.65
1:J4:210:ASN:ND2	1:C8:71:ARG:NH2	2.29	0.65
1:g4:210:ASN:HD21	1:YG:71:ARG:HH22	1.43	0.65
1:g4:312:PRO:HD3	1:CD:27:HIS:CG	2.31	0.65
5:E5:37:ASP:OD2	3:AH:193:ILE:CG1	2.37	0.65
1:S6:136:ASN:HA	1:AS:81:PHE:CZ	2.31	0.65
1:g6:148:ALA:HB3	2:NP:15:TYR:HE2	1.46	0.65
1:g6:310:THR:CB	1:DJ:27:HIS:CE1	2.79	0.65
1:g6:367:PRO:CB	1:LP:375:TRP:CD2	2.76	0.65
1:g6:369:PHE:HA	1:AP:99:MET:HE1	1.78	0.65
1:h6:162:ASP:HA	1:h6:165:VAL:HG22	1.79	0.65
1:h6:239:VAL:HG22	2:n6:48:LEU:HD13	1.77	0.65
2:H7:2:TYR:CD1	2:iQ:55:GLY:C	2.74	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J7:64:ILE:HD11	1:K7:88:GLU:CG	2.26	0.65
1:Q7:14:VAL:HG21	1:aL:14:VAL:CG2	2.25	0.65
1:Q7:375:TRP:CZ2	1:QR:368:GLU:CG	2.73	0.65
1:Y7:14:VAL:HG21	1:SQ:14:VAL:CG2	2.25	0.65
1:A8:64:ILE:HD11	1:B8:88:GLU:CG	2.26	0.65
2:P8:2:TYR:CD1	2:hE:55:GLY:C	2.74	0.65
1:g8:45:MET:CB	1:BS:19:LYS:CG	2.15	0.65
4:BA:30:LEU:H	5:EH:64:TRP:CD1	2.12	0.65
3:AC:8:LEU:O	5:DN:48:TYR:CD1	2.49	0.65
4:BC:30:LEU:CA	5:EN:64:TRP:CE2	2.79	0.65
1:AD:60:GLU:CG	1:KD:87:GLU:H	2.09	0.65
1:AD:99:MET:HE1	1:YG:369:PHE:HA	1.78	0.65
1:KD:33:TRP:CE3	1:IS:170:GLU:CD	2.67	0.65
1:KD:366:ASN:CG	1:JS:108:MET:HB2	2.20	0.65
1:BE:64:ILE:HG13	2:HE:53:PHE:HD2	1.58	0.65
1:BE:222:SER:HB2	1:CP:38:LYS:C	2.21	0.65
1:BE:316:VAL:CG2	1:CP:31:LYS:HD3	2.26	0.65
1:LE:162:ASP:HA	1:LE:165:VAL:HG22	1.79	0.65
2:ZE:25:GLU:OE1	1:IQ:73:ASN:O	1.92	0.65
2:HG:2:TYR:HB2	2:XQ:55:GLY:HA2	1.78	0.65
1:aG:368:GLU:OE2	1:CK:107:LEU:HD21	1.94	0.65
1:hG:64:ILE:HD11	1:iG:88:GLU:CG	2.26	0.65
2:nG:2:TYR:HB2	2:PL:55:GLY:HA2	1.78	0.65
5:EH:18:LEU:HD21	5:DN:61:ARG:HE	1.61	0.65
4:BI:30:LEU:H	5:EM:64:TRP:CD1	2.12	0.65
5:EI:18:LEU:HD21	5:DO:61:ARG:HE	1.61	0.65
1:BJ:367:PRO:HG2	1:gL:375:TRP:CZ3	2.31	0.65
1:KJ:49:PHE:HB2	1:LP:22:LEU:HD13	1.77	0.65
1:KJ:61:THR:HG23	1:LP:57:LYS:HE2	1.69	0.65
1:BK:158:LYS:NZ	1:CK:91:ILE:O	2.29	0.65
1:CK:34:THR:O	1:hR:383:ALA:CB	2.43	0.65
2:fL:55:GLY:HA2	2:HR:2:TYR:HB2	1.78	0.65
1:YQ:375:TRP:CZ3	1:AS:367:PRO:HG2	2.31	0.65
1:A1:64:ILE:HD11	1:B1:88:GLU:CG	2.26	0.65
1:I1:99:MET:SD	1:NE:136:ASN:ND2	2.67	0.65
1:R1:105:GLU:HB2	1:AS:109:LEU:CD1	2.19	0.65
1:R1:222:SER:HB2	1:CJ:38:LYS:C	2.21	0.65
2:e1:2:TYR:CD1	2:nG:55:GLY:C	2.74	0.65
3:A2:108:THR:N	2:MD:7:MET:HE1	2.02	0.65
4:B2:30:LEU:CA	5:EA:64:TRP:CE2	2.79	0.65
4:B2:251:TRP:CD1	3:AF:208:LYS:HE2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:210:ASN:ND2	1:g7:71:ARG:NH2	2.29	0.65
1:I3:82:ILE:CD1	1:I4:142:PHE:O	2.41	0.65
1:J3:162:ASP:HA	1:J3:165:VAL:HG22	1.79	0.65
1:Q3:137:ASP:OD2	1:Z4:49:PHE:CB	2.39	0.65
1:b3:221:ALA:C	1:BD:38:LYS:HG2	2.21	0.65
1:C4:222:SER:OG	1:aE:53:TYR:HD1	1.77	0.65
1:K4:47:GLU:CB	1:QL:20:SER:HB2	2.20	0.65
1:R4:87:GLU:OE2	1:BS:54:LEU:HA	1.96	0.65
1:Y4:89:TYR:CE2	1:Y8:63:LEU:CD1	2.76	0.65
1:f4:375:TRP:CZ2	1:gG:368:GLU:CG	2.73	0.65
3:A5:208:LYS:HE2	4:BO:251:TRP:CD1	2.31	0.65
1:C6:14:VAL:HG21	1:iG:14:VAL:CG2	2.25	0.65
1:J6:105:GLU:OE1	1:Z7:110:LYS:NZ	2.28	0.65
1:Z6:162:ASP:HA	1:Z6:165:VAL:HG22	1.79	0.65
1:j6:136:ASN:ND2	1:C8:99:MET:SD	2.67	0.65
1:C7:148:ALA:HB3	2:NK:15:TYR:HE2	1.46	0.65
1:B7:47:GLU:CG	1:DP:22:LEU:HB2	2.26	0.65
1:Y7:208:LEU:HD12	1:Y7:391:ILE:CD1	2.24	0.65
1:C8:375:TRP:CZ2	1:AE:368:GLU:CG	2.73	0.65
1:I8:22:LEU:HD13	1:KR:47:GLU:OE2	1.97	0.65
1:R8:162:ASP:HA	1:R8:165:VAL:HG22	1.79	0.65
3:A9:210:SER:OG	4:BC:249:GLN:C	2.39	0.65
4:B9:14:SER:OG	5:FA:37:ASP:OD1	2.11	0.65
5:E9:40:THR:HG22	5:DA:45:TYR:OH	1.97	0.65
5:C9:266:THR:N	5:NA:230:SER:O	2.29	0.65
3:AA:208:LYS:HE2	4:BH:251:TRP:CD1	2.31	0.65
4:BA:14:SER:OG	5:FC:37:ASP:OD1	2.11	0.65
4:BB:142:SER:OG	4:BF:197:SER:OG	2.09	0.65
4:BB:251:TRP:CD1	3:AM:208:LYS:HD2	2.31	0.65
1:DD:123:ASN:CG	1:KS:21:ALA:HB2	2.22	0.65
1:LD:55:PHE:HD1	1:DK:120:LEU:CD1	1.91	0.65
1:LD:55:PHE:HB3	1:DK:87:GLU:CD	2.21	0.65
1:BE:162:ASP:HA	1:BE:165:VAL:HG22	1.79	0.65
1:bE:64:ILE:HD11	1:cE:88:GLU:CG	2.26	0.65
3:AF:254:LEU:HD11	3:AF:271:ARG:HG3	1.77	0.65
3:AF:302:TYR:CD2	3:AM:309:SER:HB2	2.30	0.65
5:EH:40:THR:HG22	5:DN:45:TYR:OH	1.97	0.65
1:BJ:158:LYS:NZ	1:CJ:91:ILE:O	2.29	0.65
1:KJ:80:ASP:HA	3:AN:64:GLN:O	1.97	0.65
1:KJ:369:PHE:CE2	1:KP:104:ASN:O	2.49	0.65
1:DK:96:PRO:HD2	1:KK:166:LEU:HG	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FK:11:MET:H	2:FK:14:SER:HB3	1.60	0.65
1:BL:49:PHE:CB	1:YR:137:ASP:OD2	2.39	0.65
1:RL:64:ILE:HD11	1:SL:88:GLU:CG	2.26	0.65
1:YL:14:VAL:HG21	1:SR:14:VAL:CG2	2.25	0.65
1:ZL:162:ASP:HA	1:ZL:165:VAL:HG22	1.78	0.65
3:AO:151:ASN:CB	1:IS:58:ILE:CD1	2.73	0.65
1:DP:372:VAL:HG21	2:mR:11:MET:CE	2.26	0.65
1:ZR:162:ASP:HA	1:ZR:165:VAL:HG22	1.78	0.65
1:AS:158:LYS:NZ	1:BS:91:ILE:O	2.29	0.65
1:I1:375:TRP:CZ2	1:Y6:368:GLU:CG	2.73	0.65
1:R1:64:ILE:HD11	1:S1:88:GLU:CG	2.26	0.65
1:Y1:64:ILE:HG13	2:c1:53:PHE:HD2	1.58	0.65
1:Y1:162:ASP:HA	1:Y1:165:VAL:HG22	1.79	0.65
1:Z1:47:GLU:CB	1:IR:20:SER:HB2	2.20	0.65
2:e1:2:TYR:HB2	2:nG:55:GLY:HA2	1.78	0.65
1:f1:53:TYR:HD1	1:C3:222:SER:OG	1.77	0.65
3:A2:8:LEU:O	5:DA:48:TYR:CD1	2.49	0.65
5:D2:45:TYR:OH	5:EB:40:THR:HG22	1.97	0.65
5:E2:64:TRP:HE1	4:BF:30:LEU:H	1.36	0.65
1:R3:162:ASP:HA	1:R3:165:VAL:HG22	1.79	0.65
1:Y3:221:ALA:C	1:BK:38:LYS:HG2	2.21	0.65
2:d3:2:TYR:CZ	1:BD:157:LYS:NZ	2.52	0.65
1:I4:73:ASN:O	2:H8:25:GLU:OE1	1.92	0.65
2:P4:2:TYR:CD1	2:n6:55:GLY:C	2.74	0.65
1:X4:71:ARG:HH22	1:Z8:210:ASN:HD21	1.43	0.65
1:h4:14:VAL:CG2	1:gG:14:VAL:HG21	2.25	0.65
2:j4:11:MET:CG	1:CD:133:LEU:HD23	2.25	0.65
4:B5:251:TRP:CD1	3:AH:208:LYS:HE2	2.31	0.65
5:D5:48:TYR:CD1	3:AH:8:LEU:O	2.49	0.65
5:F5:27:ARG:HH11	5:DI:26:GLU:HG2	1.62	0.65
5:F5:31:PHE:CZ	5:FI:46:TYR:CB	2.61	0.65
2:E6:45:ILE:CG1	2:E6:46:HIS:N	2.36	0.65
1:J6:162:ASP:HA	1:J6:165:VAL:HG22	1.78	0.65
1:S6:47:GLU:CG	1:CS:22:LEU:HB2	2.26	0.65
2:f6:2:TYR:HB2	2:X7:55:GLY:HA2	1.78	0.65
1:i6:136:ASN:HA	1:BJ:81:PHE:CZ	2.31	0.65
1:A7:162:ASP:HA	1:A7:165:VAL:HG22	1.79	0.65
1:B7:57:LYS:CE	1:DP:143:GLN:OE1	2.44	0.65
2:H7:2:TYR:HB2	2:iQ:55:GLY:HA2	1.78	0.65
1:Q7:142:PHE:O	1:YL:82:ILE:CD1	2.41	0.65
1:Q7:208:LEU:HD12	1:Q7:391:ILE:CD1	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i7:14:VAL:CG2	1:C8:14:VAL:HG21	2.25	0.65
2:M8:39:ASP:OD1	2:M8:39:ASP:N	2.24	0.65
1:a8:14:VAL:CG2	1:bQ:14:VAL:HG21	2.25	0.65
1:g8:369:PHE:HA	1:IS:99:MET:HE1	1.78	0.65
4:B9:195:LYS:H	4:BA:144:GLN:HE21	1.45	0.65
3:AB:254:LEU:HD11	3:AB:271:ARG:HG3	1.77	0.65
5:DB:45:TYR:OH	5:EF:40:THR:HG22	1.97	0.65
1:KD:150:ASN:ND2	2:LS:2:TYR:CG	2.63	0.65
1:LD:27:HIS:O	1:BK:100:ASP:HB2	1.97	0.65
1:LD:28:ASP:HA	1:DK:304:GLN:HE22	1.59	0.65
1:DE:375:TRP:CZ3	1:BP:367:PRO:HG2	2.31	0.65
1:FE:31:LYS:CB	1:CP:314:GLY:O	2.45	0.65
1:LE:239:VAL:HG22	2:RE:48:LEU:HD13	1.77	0.65
2:RE:55:GLY:C	2:PG:2:TYR:CD1	2.74	0.65
1:CG:208:LEU:HD12	1:CG:391:ILE:CD1	2.24	0.65
1:AG:239:VAL:HG22	2:HG:48:LEU:HD13	1.77	0.65
2:HG:2:TYR:CD1	2:XQ:55:GLY:C	2.74	0.65
3:AH:150:TYR:CE1	1:AP:145:LEU:HD12	2.31	0.65
5:EI:40:THR:HG22	5:DO:45:TYR:OH	1.97	0.65
1:AJ:170:GLU:CD	1:JS:33:TRP:CE3	2.67	0.65
1:BJ:38:LYS:HG2	1:gL:221:ALA:C	2.21	0.65
1:LJ:106:GLU:HA	1:gL:109:LEU:HD13	1.77	0.65
1:AK:71:ARG:HB3	1:AK:168:GLU:HG2	1.77	0.65
1:CK:27:HIS:CG	1:hR:312:PRO:HD3	2.32	0.65
1:LK:35:PHE:CE1	1:DP:178:TYR:HB2	2.32	0.65
2:NK:1:MET:HE1	2:mR:54:THR:HG22	1.76	0.65
1:IL:14:VAL:HG21	1:KQ:14:VAL:CG2	2.25	0.65
5:DM:45:TYR:OH	5:EO:40:THR:HG22	1.97	0.65
5:NM:230:SER:O	5:CO:266:THR:N	2.29	0.65
1:AQ:162:ASP:HA	1:AQ:165:VAL:HG22	1.78	0.65
1:RQ:64:ILE:HG13	2:VQ:53:PHE:HD2	1.58	0.65
1:AR:162:ASP:HA	1:AR:165:VAL:HG22	1.79	0.65
1:hR:64:ILE:HD11	1:iR:88:GLU:CG	2.26	0.65
1:hR:162:ASP:HA	1:hR:165:VAL:HG22	1.78	0.65
2:H1:55:GLY:C	2:HL:2:TYR:CD1	2.74	0.65
1:J1:64:ILE:HG13	2:N1:53:PHE:HD2	1.58	0.65
2:P1:25:GLU:OE1	1:IG:73:ASN:O	1.92	0.65
1:T1:31:LYS:CB	1:CJ:314:GLY:O	2.45	0.65
1:f1:222:SER:OG	1:QG:53:TYR:HD1	1.77	0.65
4:B2:142:SER:OG	4:BB:197:SER:OG	2.09	0.65
4:B2:195:LYS:H	4:B9:144:GLN:HE21	1.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J4:64:ILE:HD11	1:K4:88:GLU:CG	2.26	0.65
2:e4:2:TYR:HB2	2:P7:55:GLY:HA2	1.78	0.65
1:g4:222:SER:CA	1:CD:38:LYS:HB3	2.25	0.65
1:g4:383:ALA:CB	1:CD:34:THR:O	2.43	0.65
1:i4:143:GLN:HB3	1:BD:57:LYS:HB3	1.77	0.65
3:A5:158:GLU:CD	1:AJ:136:ASN:CB	2.62	0.65
5:E5:64:TRP:CE2	4:BH:30:LEU:CA	2.79	0.65
1:A6:64:ILE:HD11	1:B6:88:GLU:CG	2.26	0.65
1:J6:64:ILE:HD11	1:K6:88:GLU:CG	2.26	0.65
1:J7:239:VAL:HG22	2:P7:48:LEU:HD13	1.77	0.65
2:X7:2:TYR:HB2	2:PR:55:GLY:HA2	1.78	0.65
4:BB:251:TRP:CD1	3:AM:208:LYS:HE2	2.31	0.65
5:EB:55:LEU:HD21	5:EF:21:ILE:HG23	1.76	0.65
3:AC:309:SER:HB2	3:AH:302:TYR:CD2	2.30	0.65
1:AD:54:LEU:CA	3:AM:29:ARG:NH1	2.53	0.65
1:LD:27:HIS:HE1	1:DK:310:THR:O	1.77	0.65
2:HE:1:MET:CE	2:HP:54:THR:HA	2.25	0.65
1:KE:375:TRP:CZ2	1:QQ:368:GLU:CG	2.73	0.65
4:BF:251:TRP:CD1	3:AO:208:LYS:HE2	2.31	0.65
2:HG:55:GLY:HA2	2:XL:2:TYR:HB2	1.78	0.65
1:JG:64:ILE:HD11	1:KG:88:GLU:CG	2.26	0.65
2:fG:2:TYR:HB2	2:HL:55:GLY:HA2	1.78	0.65
3:AH:18:LYS:HE2	5:FN:26:GLU:H	1.59	0.65
4:BI:30:LEU:CA	5:EM:64:TRP:CE2	2.79	0.65
1:AJ:315:ALA:HB2	1:JS:30:SER:HA	1.79	0.65
1:DJ:96:PRO:HD2	1:KJ:166:LEU:HG	1.78	0.65
1:DJ:123:ASN:CG	1:LP:21:ALA:HB2	2.21	0.65
1:LJ:27:HIS:O	1:AS:100:ASP:HB2	1.96	0.65
1:LK:157:LYS:NZ	2:FP:2:TYR:HE2	1.94	0.65
1:LK:369:PHE:CE2	1:BP:105:GLU:C	2.66	0.65
1:IL:53:TYR:HD1	1:IQ:222:SER:OG	1.77	0.65
1:IL:142:PHE:O	1:IQ:82:ILE:CD1	2.41	0.65
1:AQ:64:ILE:HD11	1:BQ:88:GLU:CG	2.26	0.65
1:RQ:162:ASP:HA	1:RQ:165:VAL:HG22	1.79	0.65
1:AR:64:ILE:HD11	1:BR:88:GLU:CG	2.26	0.65
1:K1:47:GLU:OE2	1:Y6:22:LEU:HD13	1.97	0.65
1:R1:383:ALA:CB	1:CJ:34:THR:O	2.43	0.65
1:X1:222:SER:OG	1:IR:53:TYR:HD1	1.77	0.65
1:f1:142:PHE:O	1:C3:82:ILE:CD1	2.41	0.65
3:A2:107:LEU:O	2:MD:7:MET:HE3	1.93	0.65
1:Y3:109:LEU:HD13	1:LK:106:GLU:HA	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z3:39:ASP:N	2:Z3:39:ASP:OD1	2.24	0.65
1:b3:375:TRP:CZ3	1:BD:367:PRO:HG2	2.31	0.65
2:H4:2:TYR:HB2	2:n7:55:GLY:HA2	1.78	0.65
1:Q4:53:TYR:HD1	1:IL:222:SER:OG	1.77	0.65
1:g4:87:GLU:OE2	1:CD:54:LEU:HA	1.96	0.65
1:C6:368:GLU:CG	1:gG:375:TRP:CZ2	2.73	0.65
1:i6:44:THR:HB	1:DJ:16:LYS:HZ2	1.61	0.65
1:A7:64:ILE:HG13	2:F7:53:PHE:HD2	1.58	0.65
1:B7:136:ASN:HA	1:BP:81:PHE:CZ	2.31	0.65
1:Z7:162:ASP:HA	1:Z7:165:VAL:HG22	1.79	0.65
1:B8:47:GLU:OE2	1:AE:22:LEU:HD13	1.97	0.65
2:P8:2:TYR:HB2	2:hE:55:GLY:HA2	1.78	0.65
2:n8:2:TYR:HB2	2:ZE:55:GLY:HA2	1.78	0.65
3:A9:32:PHE:HE2	1:AK:135:ASN:O	1.79	0.65
3:A9:152:SER:H	1:AK:144:THR:N	1.92	0.65
5:F9:27:ARG:HH11	5:DA:26:GLU:HG2	1.62	0.65
3:AA:8:LEU:O	5:DH:48:TYR:CD1	2.49	0.65
5:FA:27:ARG:HH11	5:DC:26:GLU:HG2	1.62	0.65
1:DD:178:TYR:HB2	1:KS:35:PHE:CE1	2.32	0.65
1:DD:384:ILE:CD1	1:KS:35:PHE:HE1	2.08	0.65
1:KD:33:TRP:CH2	1:IS:173:ALA:HB1	2.31	0.65
1:KD:47:GLU:OE1	1:KS:21:ALA:C	2.39	0.65
1:KD:152:ALA:CB	2:LS:15:TYR:CE2	2.80	0.65
1:LD:35:PHE:CE1	1:DK:178:TYR:HB2	2.32	0.65
1:LD:369:PHE:CG	1:BK:108:MET:HE2	2.30	0.65
1:cE:47:GLU:OE2	1:CG:22:LEU:HD13	1.97	0.65
2:XG:2:TYR:HB2	2:HR:55:GLY:HA2	1.78	0.65
3:AI:208:LYS:HE2	4:BM:251:TRP:CD1	2.31	0.65
4:BI:249:GLN:C	3:AN:210:SER:OG	2.39	0.65
1:AK:63:LEU:HD23	1:KK:89:TYR:CE2	2.30	0.65
1:AK:120:LEU:HD11	1:KP:55:PHE:HD1	1.23	0.65
1:AK:304:GLN:HE22	1:KP:28:ASP:HA	1.56	0.65
1:AL:239:VAL:HG22	2:HL:48:LEU:HD13	1.77	0.65
1:BL:47:GLU:CB	1:YR:20:SER:HB2	2.20	0.65
5:DM:61:ARG:HE	5:EO:18:LEU:HD21	1.61	0.65
1:AQ:239:VAL:HG22	2:HQ:48:LEU:HD13	1.77	0.65
1:AR:239:VAL:HG22	2:HR:48:LEU:HD13	1.77	0.65
1:I1:22:LEU:HD13	1:UE:47:GLU:OE2	1.97	0.65
1:R1:375:TRP:CZ3	1:CJ:367:PRO:HG2	2.32	0.65
1:C3:73:ASN:O	2:n7:25:GLU:OE1	1.92	0.65
1:I4:222:SER:OG	1:QL:53:TYR:HD1	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:210:SER:OG	4:BO:249:GLN:C	2.39	0.65
4:B5:30:LEU:CA	5:EO:64:TRP:CE2	2.79	0.65
1:A6:162:ASP:HA	1:A6:165:VAL:HG22	1.79	0.65
2:H6:55:GLY:C	2:P7:2:TYR:CD1	2.74	0.65
1:R6:239:VAL:HG22	2:X6:48:LEU:HD13	1.77	0.65
1:Q7:22:LEU:HD13	1:aL:47:GLU:OE2	1.97	0.65
1:i7:47:GLU:OE2	1:C8:22:LEU:HD13	1.97	0.65
2:n7:2:TYR:CD1	2:HQ:55:GLY:C	2.74	0.65
1:A8:64:ILE:HG13	2:F8:53:PHE:HD2	1.58	0.65
1:I8:53:TYR:HD1	1:IR:222:SER:OG	1.77	0.65
1:J8:64:ILE:HD11	1:K8:88:GLU:CG	2.26	0.65
3:A9:8:LEU:O	5:DC:48:TYR:CD1	2.49	0.65
3:AA:112:ILE:HG22	2:MK:13:THR:HA	1.75	0.65
1:AD:144:THR:HA	3:AF:36:LEU:CD1	2.17	0.65
1:KD:47:GLU:CA	1:KS:22:LEU:HD23	2.25	0.65
1:KE:82:ILE:CD1	1:QQ:142:PHE:O	2.41	0.65
1:SE:71:ARG:NH2	1:JQ:210:ASN:ND2	2.29	0.65
2:ZE:2:TYR:CD1	2:fR:55:GLY:C	2.74	0.65
5:DF:48:TYR:CD1	3:AO:8:LEU:O	2.49	0.65
5:EF:64:TRP:CD1	4:BO:30:LEU:H	2.12	0.65
1:ZG:162:ASP:HA	1:ZG:165:VAL:HG22	1.79	0.65
1:AK:315:ALA:HB2	1:KP:30:SER:HA	1.79	0.65
1:ZR:64:ILE:HD11	1:aR:88:GLU:CG	2.26	0.65
1:ZR:239:VAL:HG22	2:fR:48:LEU:HD13	1.77	0.65
1:C1:368:GLU:CG	1:bQ:375:TRP:CZ2	2.73	0.65
1:A1:162:ASP:HA	1:A1:165:VAL:HG22	1.79	0.65
1:S1:47:GLU:OE2	1:Q8:22:LEU:HD13	1.97	0.65
1:X1:142:PHE:O	1:I8:82:ILE:CD1	2.41	0.65
2:e1:55:GLY:C	2:PL:2:TYR:CD1	2.74	0.65
2:m1:2:TYR:CD1	2:H7:55:GLY:C	2.74	0.65
1:C3:71:ARG:HH22	1:h7:210:ASN:HD21	1.43	0.65
1:R3:20:SER:HG	1:R3:21:ALA:N	1.95	0.65
1:Y3:109:LEU:O	1:LK:105:GLU:OE1	2.15	0.65
1:X4:63:LEU:CD1	1:Z8:89:TYR:CE2	2.76	0.65
1:Y4:162:ASP:HA	1:Y4:165:VAL:HG22	1.79	0.65
1:g4:174:MET:HG3	1:CD:33:TRP:CD1	2.31	0.65
1:g4:316:VAL:CG2	1:CD:31:LYS:CE	2.73	0.65
1:i4:50:VAL:H	1:BD:137:ASP:CG	2.03	0.65
1:J6:64:ILE:HG13	2:N6:53:PHE:HD2	1.58	0.65
1:Q6:58:ILE:CB	1:CJ:55:PHE:CD2	2.79	0.65
2:E8:39:ASP:OD1	2:E8:39:ASP:N	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:105:LYS:O	2:MK:21:ASN:ND2	2.30	0.65
5:FC:27:ARG:HH11	5:DH:26:GLU:HG2	1.62	0.65
1:BD:158:LYS:NZ	1:CD:91:ILE:O	2.29	0.65
1:LD:36:GLY:CA	1:DK:121:TYR:HD1	1.96	0.65
1:aE:208:LEU:HD12	1:aE:391:ILE:CD1	2.24	0.65
5:FF:50:SER:HB2	5:FM:32:TYR:C	2.21	0.65
4:BH:14:SER:OG	5:FN:37:ASP:OD1	2.11	0.65
3:AI:29:ARG:CZ	1:IS:58:ILE:HG12	2.25	0.65
1:AJ:173:ALA:HB1	1:JS:33:TRP:CH2	2.31	0.65
1:KJ:33:TRP:CH2	1:AP:173:ALA:HB1	2.31	0.65
1:KJ:78:GLU:OE2	3:AN:81:LEU:CD2	2.43	0.65
1:LJ:28:ASP:HA	1:CS:304:GLN:HE22	1.59	0.65
1:LJ:105:GLU:CG	1:gL:109:LEU:C	2.60	0.65
2:MK:15:TYR:CE2	1:KP:152:ALA:CB	2.80	0.65
3:AO:66:ILE:CG1	1:IS:150:ASN:HD21	2.09	0.65
2:H1:55:GLY:HA2	2:HL:2:TYR:HB2	1.78	0.65
1:Q1:53:TYR:HD1	1:IG:222:SER:OG	1.77	0.65
1:T1:365:HIS:CE1	2:HJ:10:MET:HE1	2.32	0.65
1:Z1:49:PHE:CB	1:IR:137:ASP:OD2	2.39	0.65
1:f1:22:LEU:HD13	1:B3:47:GLU:OE2	1.97	0.65
1:g1:162:ASP:HA	1:g1:165:VAL:HG22	1.79	0.65
5:N2:230:SER:O	5:CB:266:THR:N	2.29	0.65
2:H3:55:GLY:HA2	2:n6:2:TYR:HB2	1.78	0.65
1:I3:22:LEU:HD13	1:SL:47:GLU:OE2	1.97	0.65
1:K3:47:GLU:OE2	1:I4:22:LEU:HD13	1.97	0.65
1:A4:64:ILE:HG13	2:F4:53:PHE:HD2	1.58	0.65
1:g4:222:SER:HB2	1:CD:38:LYS:C	2.21	0.65
1:g4:239:VAL:HG22	2:l4:48:LEU:HD13	1.77	0.65
1:i4:30:SER:N	1:LD:98:ASN:ND2	2.45	0.65
5:D5:26:GLU:HG2	5:FN:27:ARG:HH11	1.62	0.65
5:F5:32:TYR:C	5:FI:50:SER:HB2	2.21	0.65
1:J6:20:SER:HG	1:J6:21:ALA:N	1.95	0.65
1:K6:14:VAL:CG2	1:CL:14:VAL:HG21	2.25	0.65
1:C7:365:HIS:HD2	2:NK:10:MET:HE2	1.62	0.65
1:I7:14:VAL:HG21	1:iR:14:VAL:CG2	2.25	0.65
1:J7:210:ASN:HD21	1:bQ:71:ARG:HH22	1.43	0.65
1:K7:47:GLU:CB	1:CQ:20:SER:HB2	2.20	0.65
1:I8:20:SER:HB2	1:KR:47:GLU:CB	2.20	0.65
1:S8:47:GLU:OE2	1:IG:22:LEU:HD13	1.97	0.65
1:g8:29:TYR:O	1:KS:312:PRO:HG2	1.97	0.65
1:i8:47:GLU:CG	1:DD:22:LEU:HB2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A9:150:TYR:O	1:AK:144:THR:HG22	1.71	0.65
5:D9:48:TYR:CD1	3:AB:8:LEU:O	2.49	0.65
4:BA:30:LEU:CA	5:EH:64:TRP:CE2	2.79	0.65
5:DB:48:TYR:CD1	3:AM:8:LEU:O	2.49	0.65
5:EB:66:TYR:HB2	5:EF:10:TYR:CZ	2.31	0.65
5:NB:230:SER:O	5:CF:266:THR:N	2.29	0.65
1:AD:173:ALA:HB1	1:KK:33:TRP:CH2	2.31	0.65
2:FD:2:TYR:HE2	1:KS:157:LYS:NZ	1.94	0.65
2:FD:10:MET:CB	1:KS:372:VAL:HG11	2.25	0.65
1:KD:27:HIS:CB	1:IS:312:PRO:HD3	2.20	0.65
1:LD:312:PRO:HG2	1:YG:29:TYR:O	1.97	0.65
1:KE:222:SER:OG	1:QQ:53:TYR:HD1	1.77	0.65
1:LE:64:ILE:HD11	1:ME:88:GLU:CG	2.26	0.65
1:bE:162:ASP:HA	1:bE:165:VAL:HG22	1.79	0.65
3:AF:45:TYR:HB3	3:AF:301:PRO:HA	1.79	0.65
4:BF:144:GLN:HE21	4:BM:195:LYS:H	1.45	0.65
4:BF:249:GLN:C	3:AO:210:SER:OG	2.39	0.65
5:EF:64:TRP:HE1	4:BO:29:LYS:HA	1.60	0.65
1:gG:71:ARG:HH22	1:AL:210:ASN:HD21	1.43	0.65
1:LK:35:PHE:HE1	1:DP:384:ILE:CD1	2.08	0.65
1:CL:208:LEU:CD1	1:CL:391:ILE:HD12	1.95	0.65
1:BL:47:GLU:OE2	1:YR:22:LEU:HD13	1.97	0.65
4:BM:144:GLN:HE21	4:BO:195:LYS:H	1.45	0.65
3:AO:64:GLN:HG3	1:IS:149:THR:N	2.11	0.65
1:RQ:64:ILE:HD11	1:SQ:88:GLU:CG	2.26	0.65
1:RR:239:VAL:HG22	2:XR:48:LEU:HD13	1.77	0.65
1:I1:63:LEU:CD1	1:JG:89:TYR:CE2	2.76	0.65
1:R1:312:PRO:HD3	1:CJ:27:HIS:CG	2.31	0.65
1:T1:29:TYR:N	1:LJ:98:ASN:HD21	1.93	0.65
4:B2:249:GLN:C	3:AF:210:SER:OG	2.39	0.65
1:I3:368:GLU:CG	1:QL:375:TRP:CZ2	2.73	0.65
1:S3:47:GLU:OE2	1:CR:22:LEU:HD13	1.97	0.65
1:C4:137:ASP:OD2	1:BG:49:PHE:CB	2.39	0.65
1:R4:361:LYS:HE3	1:BS:370:ASP:OD2	1.97	0.65
1:g4:89:TYR:CE2	1:YG:63:LEU:CD1	2.76	0.65
1:g4:162:ASP:HA	1:g4:165:VAL:HG22	1.79	0.65
3:A5:208:LYS:HD2	4:BO:251:TRP:CD1	2.31	0.65
4:B5:249:GLN:C	3:AH:210:SER:OG	2.39	0.65
5:E5:40:THR:HG22	5:DI:45:TYR:OH	1.97	0.65
2:H6:55:GLY:HA2	2:P7:2:TYR:HB2	1.78	0.65
1:S6:57:LYS:CE	1:CS:143:GLN:OE1	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h6:64:ILE:HD11	1:i6:88:GLU:CG	2.26	0.65
1:i6:30:SER:C	1:BJ:315:ALA:HA	2.22	0.65
1:K7:47:GLU:OE2	1:CQ:22:LEU:HD13	1.97	0.65
1:Y7:22:LEU:HD13	1:SQ:47:GLU:OE2	1.97	0.65
1:a7:47:GLU:OE2	1:KE:22:LEU:HD13	1.97	0.65
1:Z8:239:VAL:HG22	2:f8:48:LEU:HD13	1.77	0.65
1:g8:14:VAL:CB	1:BS:45:MET:HE2	2.02	0.65
1:i8:57:LYS:CE	1:DD:143:GLN:OE1	2.44	0.65
4:B9:30:LEU:CA	5:EC:64:TRP:CE2	2.79	0.65
5:E9:64:TRP:CE2	4:BB:30:LEU:CA	2.79	0.65
3:AC:104:GLN:HB2	1:KP:359:MET:HE2	1.78	0.65
3:AC:210:SER:OG	4:BN:249:GLN:C	2.39	0.65
1:DD:82:ILE:HG12	1:KS:143:GLN:C	2.18	0.65
1:KD:143:GLN:OE1	1:KS:57:LYS:CD	2.30	0.65
2:MD:50:LYS:C	3:AF:114:PHE:CE1	2.75	0.65
1:BE:64:ILE:HD11	1:CE:88:GLU:CG	2.26	0.65
1:CE:98:ASN:HD22	1:CE:99:MET:H	1.45	0.65
2:RE:2:TYR:HB2	2:PQ:55:GLY:HA2	1.78	0.65
1:TE:210:ASN:HD21	1:IQ:71:ARG:HH22	1.43	0.65
5:FF:46:TYR:CB	5:FM:31:PHE:CZ	2.61	0.65
1:CG:71:ARG:NH2	1:ZL:210:ASN:ND2	2.29	0.65
1:YG:302:ASP:CG	1:DK:29:TYR:HH	1.95	0.65
5:CH:266:THR:N	5:NN:230:SER:O	2.29	0.65
2:FJ:2:TYR:HE2	1:LP:157:LYS:NZ	1.94	0.65
1:AK:116:MET:HG3	1:KP:51:ASN:HD22	1.55	0.65
1:LK:27:HIS:O	1:BP:100:ASP:HB2	1.96	0.65
1:LK:369:PHE:HZ	1:BP:107:LEU:CG	1.95	0.65
1:AL:162:ASP:HA	1:AL:165:VAL:HG22	1.78	0.65
1:IL:22:LEU:HD13	1:KQ:47:GLU:OE2	1.97	0.65
1:JL:162:ASP:HA	1:JL:165:VAL:HG22	1.79	0.65
1:YL:53:TYR:HD1	1:QR:222:SER:OG	1.77	0.65
3:AO:155:GLU:OE1	1:IS:143:GLN:CB	2.45	0.65
1:hR:64:ILE:HG13	2:kR:53:PHE:HD2	1.58	0.65
1:B1:98:ASN:HD22	1:B1:99:MET:H	1.45	0.65
1:Q1:375:TRP:CZ2	1:Q8:368:GLU:CG	2.73	0.65
1:T1:30:SER:N	1:LJ:98:ASN:ND2	2.45	0.65
1:X1:22:LEU:HD13	1:K8:47:GLU:OE2	1.97	0.65
1:X1:368:GLU:CG	1:I8:375:TRP:CZ2	2.73	0.65
1:g1:64:ILE:HD11	1:h1:88:GLU:CG	2.26	0.65
5:E2:40:THR:HG22	5:D9:45:TYR:OH	1.97	0.65
2:H3:55:GLY:C	2:n6:2:TYR:CD1	2.74	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:162:ASP:HA	1:A4:165:VAL:HG22	1.79	0.65
1:B4:47:GLU:OE2	1:aE:22:LEU:HD13	1.97	0.65
3:A5:45:TYR:HB3	3:A5:301:PRO:HA	1.79	0.65
4:B5:251:TRP:CD1	3:AH:208:LYS:HD2	2.31	0.65
5:N5:230:SER:O	5:CN:266:THR:N	2.29	0.65
1:B6:98:ASN:HD22	1:B6:99:MET:H	1.45	0.65
1:I6:20:SER:HB2	1:aR:47:GLU:CB	2.20	0.65
1:T6:136:ASN:ND2	1:IG:99:MET:SD	2.67	0.65
1:Z6:64:ILE:HD11	1:a6:88:GLU:CG	2.26	0.65
1:a6:98:ASN:HD22	1:a6:99:MET:H	1.45	0.65
1:C7:30:SER:HA	1:LK:315:ALA:HB2	1.78	0.65
1:B7:50:VAL:CG2	1:DP:137:ASP:CG	2.69	0.65
1:D7:107:LEU:HD21	1:BP:369:PHE:CZ	2.32	0.65
1:J7:162:ASP:HA	1:J7:165:VAL:HG22	1.78	0.65
1:Q7:71:ARG:HH22	1:RQ:210:ASN:HD21	1.43	0.65
1:Q7:137:ASP:OD2	1:aL:49:PHE:CB	2.39	0.65
1:Z7:64:ILE:HD11	1:a7:88:GLU:CG	2.26	0.65
1:J8:162:ASP:HA	1:J8:165:VAL:HG22	1.79	0.65
1:Z8:162:ASP:HA	1:Z8:165:VAL:HG22	1.79	0.65
1:h8:64:ILE:HG13	2:l8:53:PHE:HD2	1.58	0.65
1:h8:162:ASP:HA	1:h8:165:VAL:HG22	1.79	0.65
3:AA:45:TYR:HB3	3:AA:301:PRO:HA	1.79	0.65
5:DB:61:ARG:HE	5:EF:18:LEU:HD21	1.61	0.65
5:EB:64:TRP:CE2	4:BM:30:LEU:CA	2.79	0.65
3:AC:208:LYS:HD2	4:BN:251:TRP:CD1	2.31	0.65
5:CC:265:LEU:CD2	5:NH:231:ASN:CB	2.71	0.65
1:BD:100:ASP:HB2	1:KS:27:HIS:O	1.97	0.65
1:KD:369:PHE:CE2	1:JS:104:ASN:O	2.49	0.65
1:BE:87:GLU:OE2	1:CP:55:PHE:N	2.30	0.65
1:FE:143:GLN:HB3	1:BP:57:LYS:HB3	1.77	0.65
2:RE:2:TYR:CD1	2:PQ:55:GLY:C	2.74	0.65
5:DF:61:ARG:HE	5:EM:18:LEU:HD21	1.61	0.65
5:EH:140:ASP:HB3	5:CH:139:LYS:CG	2.25	0.65
3:AI:8:LEU:O	5:DM:48:TYR:CD1	2.49	0.65
3:AI:45:TYR:HB3	3:AI:301:PRO:HA	1.79	0.65
1:AJ:120:LEU:HD11	1:JS:55:PHE:CE1	2.27	0.65
1:AJ:312:PRO:HD3	1:JS:27:HIS:CB	2.20	0.65
1:KJ:27:HIS:CE1	1:AP:310:THR:HG22	2.25	0.65
1:CK:55:PHE:N	1:hR:87:GLU:OE2	2.30	0.65
1:KK:104:ASN:O	1:KP:369:PHE:CE2	2.49	0.65
1:LK:22:LEU:HD11	1:KP:49:PHE:HA	1.73	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:60:GLU:CG	1:KP:87:GLU:H	2.09	0.65
1:RQ:5:SER:HB2	1:LR:5:SER:HB2	1.79	0.65
2:aQ:11:MET:HG2	1:AS:133:LEU:CG	2.27	0.65
1:dQ:98:ASN:HD22	1:dQ:99:MET:H	1.45	0.65
1:CS:96:PRO:HD2	1:JS:166:LEU:HG	1.78	0.65
1:A1:5:SER:HB2	1:a4:5:SER:HB2	1.79	0.64
1:Q1:82:ILE:CD1	1:Q8:142:PHE:O	2.41	0.64
1:T1:26:ASN:HD22	1:LJ:102:SER:HB3	1.62	0.64
2:W1:54:THR:HG22	2:NJ:1:MET:HE1	1.76	0.64
5:F2:27:ARG:HH11	5:D9:26:GLU:HG2	1.62	0.64
5:C2:266:THR:N	5:N9:230:SER:O	2.29	0.64
1:I3:142:PHE:O	1:QL:82:ILE:CD1	2.41	0.64
1:S3:47:GLU:CB	1:CR:20:SER:HB2	2.20	0.64
1:Y3:80:ASP:O	1:BK:139:ARG:NH2	2.30	0.64
1:R4:316:VAL:CG2	1:BS:31:LYS:HD3	2.26	0.64
1:i4:31:LYS:CB	1:CD:314:GLY:O	2.45	0.64
5:D5:45:TYR:OH	5:EN:40:THR:HG22	1.97	0.64
1:i6:98:ASN:HD22	1:i6:99:MET:H	1.45	0.64
1:j6:107:LEU:HD21	1:BJ:369:PHE:CZ	2.32	0.64
3:A9:208:LYS:HE2	4:BC:251:TRP:CD1	2.31	0.64
4:B9:249:GLN:C	3:AB:210:SER:OG	2.39	0.64
3:AC:33:ASN:CA	1:AP:145:LEU:HD11	2.27	0.64
1:BD:99:MET:HB3	1:KS:25:PHE:HD1	1.62	0.64
1:DD:87:GLU:CD	1:KS:55:PHE:HB3	2.21	0.64
1:KD:108:MET:HB2	1:KK:366:ASN:CG	2.20	0.64
1:TE:64:ILE:HD11	1:UE:88:GLU:CG	2.26	0.64
3:AI:208:LYS:HD2	4:BM:251:TRP:CD1	2.31	0.64
4:BI:30:LEU:H	5:EM:64:TRP:HE1	1.36	0.64
1:KJ:58:ILE:HG21	1:LP:57:LYS:CA	2.21	0.64
1:KJ:366:ASN:CG	1:KP:108:MET:HB2	2.20	0.64
1:AK:310:THR:HG22	1:KP:27:HIS:CE1	2.25	0.64
1:CK:33:TRP:CD1	1:hR:174:MET:HG3	2.31	0.64
3:AO:66:ILE:HG12	1:IS:150:ASN:HD21	1.61	0.64
1:YQ:80:ASP:O	1:AS:139:ARG:NH2	2.30	0.64
1:D1:5:SER:HB2	1:hG:5:SER:HB2	1.79	0.64
1:Q1:22:LEU:HD13	1:KG:47:GLU:OE2	1.97	0.64
1:Q1:375:TRP:CZ2	1:Q8:368:GLU:HG2	2.33	0.64
1:a1:5:SER:HB2	1:ZR:5:SER:HB2	1.80	0.64
1:f1:375:TRP:CZ2	1:QG:368:GLU:HG2	2.33	0.64
1:i1:5:SER:HB2	1:J7:5:SER:HB2	1.80	0.64
3:A2:114:PHE:CE1	2:GK:25:GLU:CB	2.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C3:99:MET:SD	1:DQ:136:ASN:ND2	2.67	0.64
1:I3:368:GLU:HG2	1:QL:375:TRP:CZ2	2.33	0.64
1:Y3:5:SER:HB2	1:ZG:5:SER:HB2	1.80	0.64
1:A4:64:ILE:HD11	1:B4:88:GLU:CG	2.26	0.64
1:J4:89:TYR:CE2	1:C8:63:LEU:CD1	2.76	0.64
1:R4:312:PRO:HD3	1:BS:27:HIS:CG	2.31	0.64
1:X4:22:LEU:HD13	1:BR:47:GLU:OE2	1.97	0.64
1:g4:105:GLU:HB2	1:BK:109:LEU:CD1	2.19	0.64
1:A6:5:SER:HB2	1:bG:5:SER:HB2	1.79	0.64
1:I6:137:ASP:OD2	1:aR:49:PHE:CB	2.39	0.64
2:P6:2:TYR:HB2	2:f7:55:GLY:HA2	1.78	0.64
1:S6:45:MET:HE1	1:CS:39:TRP:CE3	2.33	0.64
1:T6:107:LEU:HD21	1:AS:369:PHE:CZ	2.32	0.64
1:Z6:89:TYR:CE2	1:KE:63:LEU:CD1	2.76	0.64
1:h6:5:SER:HB2	1:gL:5:SER:HB2	1.80	0.64
1:C7:58:ILE:CB	1:CK:55:PHE:CD2	2.79	0.64
1:B7:30:SER:C	1:BP:315:ALA:HA	2.22	0.64
1:D7:5:SER:HB2	1:AQ:5:SER:HB2	1.80	0.64
1:R7:210:ASN:ND2	1:QQ:71:ARG:NH2	2.29	0.64
1:h7:64:ILE:HD11	1:i7:88:GLU:CG	2.26	0.64
1:i8:30:SER:C	1:BD:315:ALA:HA	2.22	0.64
1:i8:45:MET:HE1	1:DD:39:TRP:CE3	2.33	0.64
4:BB:249:GLN:C	3:AM:210:SER:OG	2.39	0.64
3:AC:149:GLN:HB3	1:KP:80:ASP:HB2	1.76	0.64
5:EC:40:THR:HG22	5:DH:45:TYR:OH	1.97	0.64
1:LD:314:GLY:HA2	1:YG:31:LYS:HG2	1.78	0.64
1:DE:109:LEU:O	1:LP:105:GLU:OE1	2.14	0.64
1:ME:47:GLU:OE2	1:QQ:22:LEU:HD13	1.97	0.64
1:ME:98:ASN:HD22	1:ME:99:MET:H	1.45	0.64
2:RE:55:GLY:HA2	2:PG:2:TYR:HB2	1.78	0.64
5:EF:64:TRP:CE2	4:BO:30:LEU:CA	2.79	0.64
1:iG:98:ASN:HD22	1:iG:99:MET:H	1.45	0.64
1:BJ:105:GLU:C	1:LP:369:PHE:CE2	2.66	0.64
1:BJ:133:LEU:CG	2:iL:11:MET:HG2	2.28	0.64
1:LJ:35:PHE:CE1	1:CS:178:TYR:HB2	2.32	0.64
1:LJ:144:THR:CA	1:CS:82:ILE:CD1	2.54	0.64
2:MJ:1:MET:CB	2:FS:54:THR:O	2.29	0.64
2:NJ:22:LYS:HD3	2:NJ:24:THR:H	1.59	0.64
1:CK:370:ASP:OD2	1:hR:361:LYS:HE3	1.97	0.64
1:LK:57:LYS:HE3	1:KP:61:THR:CG2	2.05	0.64
1:AL:5:SER:HB2	1:LL:5:SER:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JL:64:ILE:HD11	1:KL:88:GLU:CG	2.26	0.64
1:YL:208:LEU:HD11	1:YL:391:ILE:HD13	1.46	0.64
1:aL:98:ASN:HD22	1:aL:99:MET:H	1.45	0.64
1:BP:158:LYS:NZ	1:CP:91:ILE:O	2.29	0.64
1:BQ:47:GLU:CB	1:gR:20:SER:HB2	2.20	0.64
1:BQ:47:GLU:OE2	1:gR:22:LEU:HD13	1.97	0.64
1:BQ:49:PHE:CB	1:gR:137:ASP:OD2	2.39	0.64
1:BQ:98:ASN:HD22	1:BQ:99:MET:H	1.45	0.64
1:IQ:99:MET:SD	1:bR:136:ASN:ND2	2.67	0.64
1:aR:98:ASN:HD22	1:aR:99:MET:H	1.45	0.64
3:A2:210:SER:OG	4:BA:249:GLN:C	2.39	0.64
1:C3:368:GLU:CG	1:QG:375:TRP:CZ2	2.73	0.64
1:D3:136:ASN:ND2	1:AE:99:MET:SD	2.67	0.64
1:K4:47:GLU:OE2	1:QL:22:LEU:HD13	1.97	0.64
2:P4:2:TYR:HB2	2:n6:55:GLY:HA2	1.78	0.64
1:Q4:208:LEU:CD1	1:Q4:391:ILE:HD12	1.95	0.64
1:Q4:368:GLU:HG2	1:IL:375:TRP:CZ2	2.33	0.64
1:R4:87:GLU:OE2	1:BS:55:PHE:N	2.30	0.64
1:R4:105:GLU:N	1:BD:110:LYS:HZ3	1.88	0.64
1:Y4:5:SER:HB2	1:L8:5:SER:HB2	1.80	0.64
1:h4:98:ASN:HD22	1:h4:99:MET:H	1.45	0.64
3:A5:149:GLN:OE1	1:AJ:145:LEU:CA	2.44	0.64
1:D6:5:SER:HB2	1:cQ:5:SER:HB2	1.79	0.64
1:Q6:310:THR:CB	1:CS:27:HIS:CE1	2.79	0.64
1:S6:14:VAL:HA	1:CS:45:MET:HB2	1.79	0.64
1:S6:30:SER:C	1:AS:315:ALA:HA	2.22	0.64
1:Y6:73:ASN:O	2:RE:25:GLU:OE1	1.93	0.64
1:Y6:99:MET:SD	1:LQ:136:ASN:ND2	2.67	0.64
1:g6:29:TYR:O	1:LP:312:PRO:HG2	1.97	0.64
1:g6:63:LEU:CD1	1:BE:89:TYR:CE2	2.76	0.64
1:i6:45:MET:HE1	1:DJ:39:TRP:CE3	2.33	0.64
2:n6:25:GLU:OE1	1:AE:73:ASN:O	1.93	0.64
1:I7:208:LEU:CD1	1:I7:391:ILE:HD12	1.95	0.64
1:S7:47:GLU:OE2	1:QR:22:LEU:HD13	1.97	0.64
1:T7:5:SER:HB2	1:LE:5:SER:HB2	1.80	0.64
1:Y7:375:TRP:CZ2	1:KE:368:GLU:HG2	2.33	0.64
1:A8:162:ASP:HA	1:A8:165:VAL:HG22	1.79	0.64
1:g8:31:LYS:HG2	1:KS:314:GLY:HA2	1.78	0.64
3:A9:153:ASP:C	1:AK:145:LEU:HG	2.21	0.64
4:BA:30:LEU:HD23	5:EH:64:TRP:CZ3	2.33	0.64
5:EA:40:THR:HG22	5:DC:45:TYR:OH	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FD:9:SER:HB3	1:KS:363:PRO:CG	2.23	0.64
1:KD:58:ILE:CG2	1:KS:57:LYS:HD3	2.25	0.64
1:KE:375:TRP:CZ2	1:QQ:368:GLU:HG2	2.33	0.64
1:bE:64:ILE:HG13	2:fE:53:PHE:HD2	1.58	0.64
5:DF:26:GLU:HG2	5:FM:27:ARG:HH11	1.62	0.64
5:FH:27:ARG:HH11	5:DN:26:GLU:HG2	1.62	0.64
1:LJ:21:ALA:HB2	1:CS:123:ASN:CG	2.22	0.64
1:CK:31:LYS:CE	1:hR:316:VAL:CG2	2.73	0.64
1:CK:31:LYS:HD3	1:hR:316:VAL:CG2	2.26	0.64
3:AM:114:PHE:CA	2:LS:13:THR:HG1	1.90	0.64
5:OM:371:PRO:CB	5:CO:275:ASN:ND2	2.56	0.64
3:AO:64:GLN:HG2	1:IS:149:THR:N	2.00	0.64
1:iR:98:ASN:HD22	1:iR:99:MET:H	1.45	0.64
1:J1:162:ASP:HA	1:J1:165:VAL:HG22	1.79	0.64
2:e1:55:GLY:HA2	2:PL:2:TYR:HB2	1.78	0.64
1:Q4:375:TRP:CZ2	1:IQ:368:GLU:CG	2.73	0.64
1:R4:222:SER:HB2	1:BS:38:LYS:C	2.21	0.64
1:T4:365:HIS:CE1	2:GS:10:MET:HE1	2.32	0.64
1:f4:368:GLU:HG2	1:C6:375:TRP:CZ2	2.33	0.64
1:I6:22:LEU:HD13	1:aR:47:GLU:OE2	1.97	0.64
1:K6:47:GLU:OE2	1:CL:22:LEU:HD13	1.97	0.64
1:Q6:148:ALA:CB	2:NJ:15:TYR:OH	2.44	0.64
1:g6:21:ALA:N	1:CP:47:GLU:HG2	2.06	0.64
1:C7:367:PRO:HB2	1:LK:375:TRP:CD2	2.33	0.64
1:A7:64:ILE:HD11	1:B7:88:GLU:CG	2.26	0.64
1:a8:47:GLU:OE2	1:bQ:22:LEU:HD13	1.97	0.64
1:a8:98:ASN:HD22	1:a8:99:MET:H	1.45	0.64
1:h8:64:ILE:HD11	1:i8:88:GLU:CG	2.26	0.64
1:i8:50:VAL:CG2	1:DD:137:ASP:CG	2.69	0.64
4:B9:251:TRP:CD1	3:AB:208:LYS:HE2	2.31	0.64
5:E9:64:TRP:CZ3	4:BB:30:LEU:HD23	2.33	0.64
3:AA:113:TYR:CD2	2:MK:7:MET:HG3	2.32	0.64
5:EA:21:ILE:HG23	5:EC:55:LEU:HD21	1.76	0.64
3:AB:149:GLN:O	1:AD:149:THR:N	2.29	0.64
1:KD:27:HIS:CE1	1:IS:310:THR:HG22	2.25	0.64
1:KD:78:GLU:H	3:AF:83:TYR:CB	2.11	0.64
1:KD:80:ASP:CB	3:AF:65:ASN:CB	2.74	0.64
1:LD:22:LEU:HD13	1:KK:49:PHE:HB2	1.77	0.64
1:SE:208:LEU:HD12	1:SE:391:ILE:CD1	2.24	0.64
5:EF:64:TRP:CZ3	4:BO:30:LEU:HD23	2.33	0.64
1:BJ:100:ASP:HB2	1:LP:27:HIS:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:63:LEU:O	1:AK:64:ILE:C	2.39	0.64
1:RL:210:ASN:ND2	1:QR:71:ARG:NH2	2.29	0.64
1:ZL:5:SER:HB2	1:TQ:5:SER:HB2	1.80	0.64
1:C1:375:TRP:CZ2	1:Y8:368:GLU:HG2	2.33	0.64
1:Y1:5:SER:HB2	1:b7:5:SER:HB2	1.79	0.64
1:Y1:64:ILE:HD11	1:Z1:88:GLU:CG	2.26	0.64
1:a1:325:LYS:HB2	1:a1:325:LYS:HZ2	1.62	0.64
4:B2:30:LEU:HD23	5:EA:64:TRP:CZ3	2.33	0.64
2:X3:55:GLY:HA2	2:f7:2:TYR:HB2	1.78	0.64
1:I4:99:MET:SD	1:TR:136:ASN:ND2	2.67	0.64
3:A5:116:VAL:CB	2:MJ:21:ASN:ND2	2.61	0.64
4:B5:144:GLN:HE21	4:BN:195:LYS:H	1.45	0.64
1:K6:98:ASN:HD22	1:K6:99:MET:H	1.45	0.64
1:Q6:47:GLU:CD	1:CJ:22:LEU:HD23	2.22	0.64
2:V6:1:MET:H2	1:KG:150:ASN:HD21	1.45	0.64
1:g6:47:GLU:CD	1:CP:22:LEU:HD23	2.22	0.64
1:g6:139:ARG:NH1	1:LP:81:PHE:CD2	2.44	0.64
1:C7:29:TYR:O	1:LK:312:PRO:HG2	1.97	0.64
1:A7:5:SER:HB2	1:DE:5:SER:HB2	1.79	0.64
1:Q7:71:ARG:NH2	1:RQ:210:ASN:ND2	2.29	0.64
1:g8:365:HIS:HD2	2:MS:10:MET:HE2	1.62	0.64
1:g8:367:PRO:HB2	1:KS:375:TRP:CD2	2.33	0.64
1:i8:14:VAL:HA	1:DD:45:MET:HB2	1.79	0.64
3:A9:149:GLN:NE2	1:AK:146:ALA:CB	2.61	0.64
4:BC:195:LYS:H	4:BH:144:GLN:HE21	1.45	0.64
2:FD:10:MET:HB2	1:KS:372:VAL:HB	1.80	0.64
1:KD:30:SER:HB3	1:JS:98:ASN:HD22	1.54	0.64
1:KD:30:SER:HA	1:IS:315:ALA:HB2	1.79	0.64
1:KD:55:PHE:CE1	1:IS:120:LEU:HD11	2.27	0.64
1:FE:26:ASN:HD22	1:LP:102:SER:HB3	1.62	0.64
1:FE:30:SER:N	1:LP:98:ASN:ND2	2.45	0.64
1:FE:365:HIS:CE1	2:HP:10:MET:HE1	2.32	0.64
1:aE:375:TRP:CZ2	1:CG:368:GLU:HG2	2.33	0.64
6:LF:99:GLN:O	2:LS:3:GLU:OE1	2.10	0.64
1:SG:98:ASN:HD22	1:SG:99:MET:H	1.45	0.64
1:aG:30:SER:C	1:BK:315:ALA:HA	2.22	0.64
1:aG:45:MET:HE1	1:DK:39:TRP:CE3	2.33	0.64
1:LK:27:HIS:CG	1:DP:312:PRO:HD3	2.33	0.64
1:LK:143:GLN:OE1	1:KP:57:LYS:HD2	1.88	0.64
1:BR:98:ASN:HD22	1:BR:99:MET:H	1.45	0.64
1:B1:47:GLU:OE2	1:Y8:22:LEU:HD13	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R1:162:ASP:HA	1:R1:165:VAL:HG22	1.79	0.64
2:m1:2:TYR:HB2	2:H7:55:GLY:HA2	1.78	0.64
1:A4:5:SER:HB2	1:DR:5:SER:HB2	1.79	0.64
1:S4:98:ASN:HD22	1:S4:99:MET:H	1.45	0.64
1:T4:26:ASN:HD22	1:KS:102:SER:HB3	1.62	0.64
1:g4:361:LYS:HE3	1:CD:370:ASP:OD2	1.97	0.64
1:h4:47:GLU:OE2	1:gG:22:LEU:HD13	1.97	0.64
3:A5:117:PRO:HA	2:MJ:19:ARG:HH12	0.81	0.64
4:B5:30:LEU:HD23	5:EO:64:TRP:CZ3	2.33	0.64
4:B5:195:LYS:H	4:BI:144:GLN:HE21	1.45	0.64
1:Z6:110:LYS:NZ	1:JR:105:GLU:OE1	2.28	0.64
1:i6:47:GLU:CG	1:DJ:22:LEU:HB2	2.26	0.64
1:I7:22:LEU:HD13	1:iR:47:GLU:OE2	1.97	0.64
1:g7:208:LEU:HD12	1:g7:391:ILE:CD1	2.24	0.64
2:n7:2:TYR:HB2	2:HQ:55:GLY:HA2	1.78	0.64
1:J8:64:ILE:HG13	2:N8:53:PHE:HD2	1.58	0.64
1:i8:57:LYS:HD3	1:DD:143:GLN:HE22	1.04	0.64
3:A9:45:TYR:HB3	3:A9:301:PRO:HA	1.79	0.64
3:A9:210:SER:HB2	4:BC:249:GLN:CB	2.23	0.64
5:E9:18:LEU:HD21	5:DA:61:ARG:HE	1.61	0.64
5:EB:64:TRP:CZ3	4:BM:30:LEU:HD23	2.33	0.64
5:EB:140:ASP:HB3	5:CB:139:LYS:CD	2.14	0.64
1:DD:312:PRO:HD3	1:KS:27:HIS:CG	2.33	0.64
1:BE:222:SER:CA	1:CP:38:LYS:HB3	2.25	0.64
1:AG:64:ILE:HD11	1:BG:88:GLU:OE2	1.98	0.64
1:QG:208:LEU:CD1	1:QG:391:ILE:HD12	1.95	0.64
1:aG:136:ASN:HA	1:BK:81:PHE:CZ	2.31	0.64
4:BI:251:TRP:CD1	3:AN:208:LYS:HE2	2.31	0.64
2:FJ:10:MET:HB2	1:LP:372:VAL:HB	1.79	0.64
1:LJ:27:HIS:CG	1:CS:312:PRO:HD3	2.33	0.64
1:LJ:105:GLU:OE1	1:gL:109:LEU:O	2.15	0.64
1:LK:102:SER:HB3	1:jR:26:ASN:HD22	1.62	0.64
1:RQ:64:ILE:HD11	1:SQ:88:GLU:OE2	1.98	0.64
1:R1:5:SER:HB2	1:L3:5:SER:HB2	1.79	0.64
1:R1:87:GLU:OE2	1:CJ:55:PHE:N	2.30	0.64
5:E2:140:ASP:HB3	5:C2:139:LYS:CG	2.25	0.64
1:J3:5:SER:HB2	1:D8:5:SER:HB2	1.79	0.64
1:Q3:375:TRP:CZ2	1:CR:368:GLU:CG	2.73	0.64
1:S3:98:ASN:HD22	1:S3:99:MET:H	1.45	0.64
1:b3:5:SER:HB2	1:h8:5:SER:HB2	1.79	0.64
1:b3:80:ASP:O	1:BD:139:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:109:LEU:O	1:LD:105:GLU:OE1	2.14	0.64
1:J4:64:ILE:HD11	1:K4:88:GLU:OE2	1.98	0.64
1:K4:98:ASN:HD22	1:K4:99:MET:H	1.45	0.64
1:Q4:142:PHE:O	1:IL:82:ILE:CD1	2.41	0.64
1:g4:64:ILE:HD11	1:h4:88:GLU:OE2	1.98	0.64
5:D5:61:ARG:HE	5:EN:18:LEU:HD21	1.61	0.64
5:E5:64:TRP:CZ3	4:BH:30:LEU:HD23	2.33	0.64
1:L6:5:SER:HB2	1:J8:5:SER:HB2	1.80	0.64
1:Q6:367:PRO:HB2	1:LJ:375:TRP:CD2	2.33	0.64
2:f6:55:GLY:HA2	2:PR:2:TYR:HB2	1.78	0.64
1:g6:367:PRO:HB2	1:LP:375:TRP:CD2	2.33	0.64
1:C8:375:TRP:CZ2	1:AE:368:GLU:HG2	2.33	0.64
1:T8:5:SER:HB2	1:RL:5:SER:HB2	1.79	0.64
1:i8:47:GLU:OE2	1:DD:22:LEU:HD22	1.98	0.64
5:F9:31:PHE:CG	5:FA:46:TYR:CD1	2.61	0.64
1:KD:49:PHE:HB2	1:KS:22:LEU:HD13	1.77	0.64
1:LD:315:ALA:HB2	1:YG:30:SER:HA	1.78	0.64
1:DE:80:ASP:O	1:BP:139:ARG:NH2	2.30	0.64
1:FE:136:ASN:HA	1:CP:81:PHE:CZ	2.33	0.64
2:JE:54:THR:HG22	2:NP:1:MET:HE1	1.77	0.64
1:ME:49:PHE:CB	1:QQ:137:ASP:OD2	2.39	0.64
1:JG:64:ILE:HD11	1:KG:88:GLU:OE2	1.98	0.64
1:KG:98:ASN:HD22	1:KG:99:MET:H	1.45	0.64
1:AJ:375:TRP:CD2	1:JS:368:GLU:OE2	2.31	0.64
1:LK:98:ASN:ND2	1:jR:30:SER:N	2.45	0.64
1:LK:372:VAL:HB	2:FP:10:MET:HB2	1.79	0.64
1:RL:162:ASP:HA	1:RL:165:VAL:HG22	1.79	0.64
1:YL:139:ARG:HD2	1:QR:81:PHE:HD2	1.25	0.64
3:AM:45:TYR:HB3	3:AM:301:PRO:HA	1.79	0.64
1:bQ:208:LEU:CD1	1:bQ:391:ILE:HD12	1.95	0.64
1:cQ:162:ASP:HA	1:cQ:165:VAL:HG22	1.79	0.64
1:JS:79:GLN:HB2	1:JS:353:LYS:HD2	1.80	0.64
1:I1:375:TRP:CZ2	1:Y6:368:GLU:HG2	2.33	0.64
1:J1:5:SER:HB2	1:NE:5:SER:HB2	1.80	0.64
1:L1:5:SER:HB2	1:R8:5:SER:HB2	1.79	0.64
2:P1:2:TYR:HB2	2:X6:55:GLY:HA2	1.78	0.64
1:Q1:368:GLU:HG2	1:IG:375:TRP:CZ2	2.33	0.64
2:U1:8:ARG:NH1	1:CJ:152:ALA:O	2.31	0.64
1:X1:53:TYR:HD1	1:I8:222:SER:HG	1.35	0.64
1:Y1:64:ILE:HD11	1:Z1:88:GLU:OE2	1.98	0.64
5:D2:26:GLU:HG2	5:FB:27:ARG:HH11	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C3:22:LEU:HD13	1:SG:47:GLU:OE2	1.97	0.64
1:C3:208:LEU:CD1	1:C3:391:ILE:HD12	1.95	0.64
1:Q3:20:SER:HB2	1:Z4:47:GLU:CB	2.20	0.64
1:Q3:22:LEU:HD13	1:Z4:47:GLU:OE2	1.97	0.64
1:I4:375:TRP:CZ2	1:QL:368:GLU:HG2	2.33	0.64
1:Q4:208:LEU:HD12	1:Q4:391:ILE:CD1	2.24	0.64
1:R4:105:GLU:HB2	1:BD:109:LEU:CD1	2.19	0.64
1:T4:31:LYS:CB	1:BS:314:GLY:O	2.45	0.64
1:X4:368:GLU:HG2	1:CR:375:TRP:CZ2	2.33	0.64
1:f4:22:LEU:HD13	1:B6:47:GLU:OE2	1.97	0.64
4:B5:14:SER:OG	5:FI:37:ASP:OD1	2.11	0.64
5:E5:18:LEU:HD21	5:DI:61:ARG:HE	1.61	0.64
1:Y6:375:TRP:CZ2	1:SE:368:GLU:CG	2.73	0.64
1:j6:5:SER:HB2	1:A8:5:SER:HB2	1.80	0.64
1:C7:55:PHE:CD2	1:CK:58:ILE:HD13	2.33	0.64
1:A7:64:ILE:HD11	1:B7:88:GLU:OE2	1.98	0.64
1:R7:162:ASP:HA	1:R7:165:VAL:HG22	1.78	0.64
1:b7:325:LYS:HB2	1:b7:325:LYS:HZ2	1.61	0.64
1:Z8:64:ILE:HD11	1:a8:88:GLU:OE2	1.98	0.64
1:b8:5:SER:HB2	1:AR:5:SER:HB2	1.80	0.64
1:h8:64:ILE:HD11	1:i8:88:GLU:OE2	1.98	0.64
4:B9:30:LEU:HD23	5:EC:64:TRP:CZ3	2.33	0.64
3:AB:112:ILE:N	2:MD:23:ARG:NH2	2.46	0.64
5:DB:26:GLU:HG2	5:FF:27:ARG:HH11	1.61	0.64
5:EB:36:ALA:C	3:AM:194:ASN:CG	2.66	0.64
4:BC:30:LEU:HD23	5:EN:64:TRP:CZ3	2.33	0.64
1:AD:315:ALA:HB2	1:KK:30:SER:HA	1.79	0.64
2:ZE:2:TYR:HB2	2:fR:55:GLY:HA2	1.78	0.64
1:AG:162:ASP:HA	1:AG:165:VAL:HG22	1.79	0.64
1:DG:5:SER:HB2	1:RR:5:SER:HB2	1.80	0.64
3:AI:210:SER:OG	4:BM:249:GLN:C	2.39	0.64
4:BI:30:LEU:HD23	5:EM:64:TRP:CZ3	2.33	0.64
1:KJ:58:ILE:CG2	1:LP:57:LYS:HD3	2.25	0.64
1:KJ:108:MET:HB2	1:JS:366:ASN:CG	2.20	0.64
1:LJ:22:LEU:CD2	1:JS:47:GLU:CD	2.70	0.64
1:CK:367:PRO:HG2	1:hR:375:TRP:CZ3	2.32	0.64
1:YL:22:LEU:HD13	1:SR:47:GLU:OE2	1.97	0.64
1:JQ:162:ASP:HA	1:JQ:165:VAL:HG22	1.79	0.64
1:AR:64:ILE:HD11	1:BR:88:GLU:OE2	1.98	0.64
1:C1:375:TRP:CZ2	1:Y8:368:GLU:CG	2.73	0.64
1:R1:361:LYS:HE3	1:CJ:370:ASP:OD2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f1:82:ILE:CD1	1:QG:142:PHE:O	2.41	0.64
3:A2:64:GLN:HB3	1:KK:355:TYR:OH	1.98	0.64
5:D2:61:ARG:HE	5:EB:18:LEU:HD21	1.61	0.64
5:E2:64:TRP:CZ3	4:BF:30:LEU:HD23	2.33	0.64
5:E2:66:TYR:N	5:EB:10:TYR:OH	2.31	0.64
1:A3:162:ASP:HA	1:A3:165:VAL:HG22	1.79	0.64
1:J3:64:ILE:HD11	1:K3:88:GLU:OE2	1.98	0.64
2:P3:55:GLY:HA2	2:X6:2:TYR:HB2	1.78	0.64
1:R3:64:ILE:HD11	1:S3:88:GLU:OE2	1.98	0.64
1:T3:5:SER:HB2	1:JR:5:SER:HB2	1.79	0.64
2:U3:39:ASP:OD1	2:U3:39:ASP:N	2.24	0.64
2:d3:11:MET:HG2	1:BD:133:LEU:CG	2.27	0.64
1:A4:64:ILE:HD11	1:B4:88:GLU:OE2	1.98	0.64
1:J4:64:ILE:HG13	2:N4:53:PHE:HD2	1.58	0.64
1:R4:222:SER:N	1:BS:38:LYS:HD2	2.06	0.64
1:S4:47:GLU:OE2	1:IQ:22:LEU:HD13	1.97	0.64
1:R6:5:SER:HB2	1:YQ:5:SER:HB2	1.80	0.64
1:R6:64:ILE:HD11	1:S6:88:GLU:OE2	1.98	0.64
1:B7:45:MET:HE1	1:DP:39:TRP:CE3	2.33	0.64
1:a7:98:ASN:HD22	1:a7:99:MET:H	1.45	0.64
1:R8:64:ILE:HD11	1:S8:88:GLU:OE2	1.98	0.64
2:X8:55:GLY:HA2	2:XR:2:TYR:HB2	1.78	0.64
1:a8:49:PHE:CB	1:bQ:137:ASP:OD2	2.39	0.64
3:A9:193:ILE:CG1	5:EC:37:ASP:OD2	2.37	0.64
5:E9:37:ASP:OD2	3:AB:193:ILE:CG1	2.37	0.64
3:AB:154:ILE:HG22	1:AD:370:ASP:HB3	1.79	0.64
1:BD:108:MET:CE	1:KS:369:PHE:HD2	2.02	0.64
1:LD:81:PHE:HD2	1:YG:139:ARG:NH1	1.52	0.64
1:LD:375:TRP:CD2	1:YG:367:PRO:HB2	2.33	0.64
2:MD:15:TYR:CE2	1:KK:152:ALA:CB	2.80	0.64
1:BE:375:TRP:CZ3	1:CP:367:PRO:HG2	2.32	0.64
1:LE:64:ILE:HD11	1:ME:88:GLU:OE2	1.98	0.64
1:BG:98:ASN:HD22	1:BG:99:MET:H	1.45	0.64
1:JG:64:ILE:HG13	2:NG:53:PHE:HD2	1.58	0.64
1:hG:162:ASP:HA	1:hG:165:VAL:HG22	1.79	0.64
1:DJ:178:TYR:HB2	1:LP:35:PHE:CE1	2.32	0.64
1:LJ:363:PRO:CG	2:ES:9:SER:HB3	2.23	0.64
1:YL:368:GLU:HG2	1:QR:375:TRP:CZ2	2.33	0.64
3:AM:112:ILE:CG2	2:LS:17:ASP:OD2	2.46	0.64
1:RR:64:ILE:HD11	1:SR:88:GLU:OE2	1.98	0.64
1:C1:62:LEU:CD1	2:H6:52:SER:O	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:52:SER:O	1:C6:62:LEU:CD1	2.46	0.64
1:I1:103:LYS:HE2	1:K1:304:GLN:HB3	1.80	0.64
1:Q1:103:LYS:HE2	1:S1:304:GLN:HB3	1.80	0.64
1:Q1:137:ASP:OD2	1:KG:49:PHE:CB	2.39	0.64
1:R1:210:ASN:ND2	1:Q6:71:ARG:NH2	2.29	0.64
1:g1:20:SER:HG	1:g1:21:ALA:N	1.96	0.64
5:E2:140:ASP:HB3	5:C2:139:LYS:CD	2.14	0.64
1:Q3:103:LYS:HE2	1:S3:304:GLN:HB3	1.80	0.64
1:C4:375:TRP:CZ2	1:aE:368:GLU:HG2	2.33	0.64
1:Q4:62:LEU:CD1	2:n8:52:SER:O	2.46	0.64
1:R4:5:SER:HB2	1:VE:5:SER:HB2	1.79	0.64
1:g4:223:GLY:HA2	1:CD:53:TYR:OH	1.98	0.64
1:I6:364:PHE:HZ	1:JL:108:MET:CE	1.90	0.64
1:Q6:29:TYR:O	1:LJ:312:PRO:HG2	1.97	0.64
1:Q6:38:LYS:HE2	1:LJ:221:ALA:O	1.98	0.64
1:S6:47:GLU:OE2	1:CS:22:LEU:HD22	1.98	0.64
1:Y6:62:LEU:CD1	2:RE:52:SER:O	2.46	0.64
1:Z6:5:SER:HB2	1:LQ:5:SER:HB2	1.80	0.64
2:f6:52:SER:O	1:KE:62:LEU:CD1	2.46	0.64
1:g6:62:LEU:CD1	2:JE:52:SER:O	2.46	0.64
1:h6:64:ILE:HD11	1:i6:88:GLU:OE2	1.98	0.64
2:n6:52:SER:O	1:AE:62:LEU:CD1	2.46	0.64
1:g7:368:GLU:CG	1:AE:375:TRP:CZ2	2.73	0.64
1:j7:5:SER:HB2	1:RG:5:SER:HB2	1.79	0.64
1:C8:103:LYS:HE2	1:B8:304:GLN:HB3	1.80	0.64
2:H8:2:TYR:HB2	2:XR:55:GLY:HA2	1.78	0.64
1:K8:98:ASN:HD22	1:K8:99:MET:H	1.45	0.64
2:P8:55:GLY:HA2	2:f8:2:TYR:HB2	1.78	0.64
1:g8:55:PHE:CD2	1:BS:58:ILE:HD13	2.33	0.64
1:i8:136:ASN:HA	1:BD:81:PHE:CZ	2.31	0.64
4:B9:191:LYS:O	4:BA:148:SER:N	2.31	0.64
3:AA:194:ASN:CG	5:EH:36:ALA:C	2.66	0.64
4:BA:191:LYS:O	4:BC:148:SER:N	2.31	0.64
5:EA:10:TYR:OH	5:EC:66:TYR:N	2.31	0.64
5:CA:266:THR:N	5:NC:230:SER:O	2.29	0.64
3:AC:37:GLU:OE2	3:AH:150:TYR:N	2.20	0.64
3:AC:45:TYR:HB3	3:AC:301:PRO:HA	1.79	0.64
1:AD:58:ILE:HD13	3:AF:32:PHE:HZ	0.51	0.64
1:KD:79:GLN:HB2	1:KD:353:LYS:HD2	1.80	0.64
4:BI:195:LYS:H	4:BO:144:GLN:HE21	1.45	0.64
5:EI:64:TRP:CZ3	4:BN:30:LEU:HD23	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:369:PHE:CE2	1:AS:105:GLU:C	2.66	0.64
2:MJ:11:MET:HE1	1:JS:372:VAL:H	1.62	0.64
1:KK:108:MET:HB2	1:KP:366:ASN:CG	2.20	0.64
1:LK:33:TRP:CB	1:DP:382:LYS:CG	2.44	0.64
1:JL:64:ILE:HD11	1:KL:88:GLU:OE2	1.98	0.64
1:QL:103:LYS:HE2	1:SL:304:GLN:HB3	1.80	0.64
1:YL:103:LYS:HE2	1:aL:304:GLN:HB3	1.80	0.64
1:ZL:64:ILE:HD11	1:aL:88:GLU:OE2	1.98	0.64
1:Q1:368:GLU:CG	1:IG:375:TRP:CZ2	2.73	0.63
1:T1:27:HIS:N	1:LJ:100:ASP:CG	2.47	0.63
1:g1:64:ILE:HD11	1:h1:88:GLU:OE2	1.98	0.63
4:B2:191:LYS:O	4:B9:148:SER:N	2.31	0.63
5:F2:41:ASN:CG	4:BF:38:GLN:NE2	2.51	0.63
2:H4:52:SER:O	1:QG:62:LEU:CD1	2.46	0.63
1:I4:62:LEU:CD1	2:H8:52:SER:O	2.46	0.63
1:J4:210:ASN:HD21	1:C8:71:ARG:HH22	1.43	0.63
2:P4:52:SER:O	1:C8:62:LEU:CD1	2.46	0.63
1:R4:375:TRP:CZ3	1:BS:367:PRO:HG2	2.32	0.63
1:T4:136:ASN:HA	1:BS:81:PHE:CZ	2.33	0.63
1:g4:5:SER:HB2	1:DL:5:SER:HB2	1.80	0.63
1:g4:375:TRP:CZ3	1:CD:367:PRO:HG2	2.32	0.63
1:i4:365:HIS:CE1	2:HD:10:MET:HE1	2.32	0.63
4:B5:38:GLN:NE2	5:FO:41:ASN:CG	2.51	0.63
4:B5:148:SER:N	4:BN:191:LYS:O	2.31	0.63
5:D5:38:TYR:CD1	3:AC:202:ASN:ND2	2.67	0.63
1:I6:368:GLU:HG2	1:YR:375:TRP:CZ2	2.33	0.63
1:Q7:20:SER:HB2	1:aL:47:GLU:CB	2.20	0.63
1:R7:64:ILE:HD11	1:S7:88:GLU:OE2	1.98	0.63
1:h7:64:ILE:HD11	1:i7:88:GLU:OE2	1.98	0.63
1:h7:162:ASP:HA	1:h7:165:VAL:HG22	1.79	0.63
1:C8:208:LEU:CD1	1:C8:391:ILE:HD12	1.95	0.63
1:I8:103:LYS:HE2	1:K8:304:GLN:HB3	1.81	0.63
1:g8:47:GLU:CD	1:BS:22:LEU:HD23	2.22	0.63
1:j8:107:LEU:HD21	1:BD:369:PHE:CZ	2.32	0.63
3:A9:151:ASN:CB	1:AK:143:GLN:O	2.46	0.63
3:A9:154:ILE:HG13	1:AK:145:LEU:HD12	0.66	0.63
3:A9:194:ASN:CG	5:EC:36:ALA:C	2.66	0.63
3:AA:202:ASN:ND2	5:DN:38:TYR:CD1	2.67	0.63
3:AC:155:GLU:HA	1:AP:58:ILE:HD13	1.80	0.63
1:CD:22:LEU:HD23	1:YG:47:GLU:CD	2.22	0.63
1:KD:47:GLU:CD	1:KS:22:LEU:CD2	2.70	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:325:LYS:HB2	1:DE:325:LYS:HZ2	1.61	0.63
2:GE:11:MET:HG2	1:BP:133:LEU:CG	2.27	0.63
1:TE:162:ASP:HA	1:TE:165:VAL:HG22	1.79	0.63
5:DF:45:TYR:OH	5:EM:40:THR:HG22	1.97	0.63
1:QG:208:LEU:HD12	1:QG:391:ILE:CD1	2.24	0.63
3:AH:112:ILE:HA	2:MP:20:LEU:HB3	1.81	0.63
5:EH:140:ASP:HB2	5:CH:139:LYS:CE	2.10	0.63
3:AI:209:MET:CA	4:BM:250:ILE:HD12	2.26	0.63
5:CI:275:ASN:ND2	5:OO:371:PRO:CB	2.56	0.63
1:BJ:139:ARG:NH2	1:gL:80:ASP:O	2.30	0.63
1:KJ:30:SER:HA	1:AP:315:ALA:HB2	1.79	0.63
1:KJ:169:LYS:HD2	1:KJ:318:THR:HB	1.80	0.63
1:LJ:28:ASP:HB2	1:CS:304:GLN:NE2	1.88	0.63
3:AM:117:PRO:HD2	2:LS:7:MET:HE2	1.78	0.63
5:EM:140:ASP:HB3	5:CM:139:LYS:CG	2.25	0.63
1:CQ:375:TRP:CZ2	1:gR:368:GLU:HG2	2.33	0.63
1:YQ:109:LEU:O	1:KS:105:GLU:OE1	2.15	0.63
1:CR:103:LYS:HE2	1:BR:304:GLN:HB3	1.80	0.63
1:QR:208:LEU:HD12	1:QR:391:ILE:CD1	2.24	0.63
1:IS:63:LEU:O	1:IS:64:ILE:C	2.39	0.63
1:C1:22:LEU:HD13	1:dQ:47:GLU:OE2	1.97	0.63
1:I1:62:LEU:CD1	2:PG:52:SER:O	2.46	0.63
1:I1:208:LEU:CD1	1:I1:391:ILE:HD12	1.95	0.63
1:K1:98:ASN:HD22	1:K1:99:MET:N	1.97	0.63
2:P1:52:SER:O	1:IG:62:LEU:CD1	2.46	0.63
1:Q1:62:LEU:CD1	2:X6:52:SER:O	2.46	0.63
1:X1:375:TRP:CZ2	1:IR:368:GLU:HG2	2.33	0.63
1:Z1:47:GLU:OE2	1:IR:22:LEU:HD13	1.97	0.63
2:e1:52:SER:O	1:I6:62:LEU:CD1	2.46	0.63
3:A2:45:TYR:HB3	3:A2:301:PRO:HA	1.79	0.63
4:B2:144:GLN:HE21	4:BB:195:LYS:H	1.45	0.63
5:D2:38:TYR:CD1	3:AM:202:ASN:ND2	2.67	0.63
1:D3:5:SER:HB2	1:BE:5:SER:HB2	1.80	0.63
1:I3:62:LEU:CD1	2:X8:52:SER:O	2.46	0.63
2:P3:52:SER:O	1:Q8:62:LEU:CD1	2.46	0.63
1:J4:162:ASP:HA	1:J4:165:VAL:HG22	1.79	0.63
2:e4:52:SER:O	1:Y8:62:LEU:CD1	2.46	0.63
1:h4:49:PHE:CB	1:gG:137:ASP:OD2	2.39	0.63
1:S6:98:ASN:HD22	1:S6:99:MET:N	1.97	0.63
1:Z6:64:ILE:HG13	2:d6:53:PHE:HD2	1.58	0.63
1:b6:5:SER:HB2	1:Z7:5:SER:HB2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:55:PHE:CD2	1:CP:58:ILE:HD13	2.33	0.63
2:H7:52:SER:O	1:gR:62:LEU:CD1	2.46	0.63
1:I7:62:LEU:CD1	2:iQ:52:SER:O	2.46	0.63
1:L7:5:SER:HB2	1:Z8:5:SER:HB2	1.80	0.63
2:P7:52:SER:O	1:bQ:62:LEU:CD1	2.46	0.63
1:S7:98:ASN:HD22	1:S7:99:MET:H	1.45	0.63
2:X7:52:SER:O	1:QQ:62:LEU:CD1	2.46	0.63
1:Y7:206:LEU:HD12	1:a7:244:ASP:OD2	1.99	0.63
2:c7:39:ASP:N	2:c7:39:ASP:OD1	2.24	0.63
1:B8:98:ASN:HD22	1:B8:99:MET:N	1.97	0.63
1:Q8:375:TRP:CZ2	1:IG:368:GLU:HG2	2.33	0.63
5:CA:265:LEU:CD1	5:NC:231:ASN:CB	2.14	0.63
1:AD:58:ILE:CD1	3:AF:32:PHE:CE1	2.79	0.63
1:KE:103:LYS:HE2	1:ME:304:GLN:HB3	1.81	0.63
1:TE:64:ILE:HD11	1:UE:88:GLU:OE2	1.98	0.63
1:CG:62:LEU:CD1	2:fL:52:SER:O	2.46	0.63
1:CG:71:ARG:HH22	1:ZL:210:ASN:HD21	1.43	0.63
1:CG:103:LYS:HE2	1:BG:304:GLN:HB3	1.80	0.63
1:JG:162:ASP:HA	1:JG:165:VAL:HG22	1.79	0.63
1:YG:109:LEU:HD23	1:CK:106:GLU:HA	1.81	0.63
2:nG:52:SER:O	1:CL:62:LEU:CD1	2.46	0.63
5:EH:21:ILE:HG22	5:EN:55:LEU:HD13	1.80	0.63
5:EI:64:TRP:HE1	4:BN:30:LEU:H	1.36	0.63
1:LJ:25:PHE:HD1	1:AS:99:MET:HB3	1.62	0.63
1:LJ:369:PHE:HB2	1:AS:108:MET:CE	2.29	0.63
1:IL:20:SER:HB2	1:KQ:47:GLU:CB	2.20	0.63
1:KL:98:ASN:HD22	1:KL:99:MET:H	1.45	0.63
1:QL:62:LEU:CD1	2:XR:52:SER:O	2.46	0.63
3:AN:104:GLN:HG3	2:MP:9:SER:HA	0.65	0.63
1:SR:98:ASN:HD22	1:SR:99:MET:N	1.97	0.63
1:CS:261:ILE:HG13	1:CS:265:ASP:OD2	1.98	0.63
1:I1:71:ARG:HH22	1:JG:210:ASN:HD21	1.43	0.63
1:L1:136:ASN:ND2	1:Q8:99:MET:SD	2.67	0.63
1:X1:368:GLU:HG2	1:I8:375:TRP:CZ2	2.33	0.63
1:g1:226:ILE:HG22	1:CQ:299:ALA:CB	2.29	0.63
4:B2:148:SER:N	4:BB:191:LYS:O	2.31	0.63
1:C3:299:ALA:CB	1:h7:226:ILE:HG22	2.29	0.63
1:A3:226:ILE:HG22	1:g7:299:ALA:CB	2.29	0.63
1:A3:259:PHE:CD1	1:B3:259:PHE:CE2	2.87	0.63
1:I3:99:MET:SD	1:D8:136:ASN:ND2	2.67	0.63
1:I3:206:LEU:HD12	1:K3:244:ASP:OD2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:375:TRP:CZ2	1:I4:368:GLU:HG2	2.33	0.63
1:Q3:375:TRP:CZ2	1:CR:368:GLU:HG2	2.33	0.63
1:R3:259:PHE:CD1	1:S3:259:PHE:CE2	2.87	0.63
2:U3:45:ILE:HG13	2:U3:46:HIS:CA	2.29	0.63
1:C4:28:ASP:O	1:ZL:98:ASN:HB3	1.99	0.63
1:C4:103:LYS:HE2	1:B4:304:GLN:HB3	1.81	0.63
1:I4:375:TRP:CZ2	1:QL:368:GLU:CG	2.73	0.63
1:J4:259:PHE:CD1	1:K4:259:PHE:CE2	2.87	0.63
1:X4:206:LEU:HD12	1:Z4:244:ASP:OD2	1.99	0.63
1:Y4:226:ILE:HG22	1:Y8:299:ALA:CB	2.29	0.63
1:f4:62:LEU:CD1	2:fG:52:SER:O	2.46	0.63
1:f4:368:GLU:CG	1:C6:375:TRP:CZ2	2.73	0.63
1:g4:87:GLU:OE2	1:CD:55:PHE:N	2.30	0.63
3:A5:194:ASN:CG	5:EO:36:ALA:C	2.66	0.63
3:A5:209:MET:CA	4:BO:250:ILE:HD12	2.26	0.63
1:I6:103:LYS:HE2	1:K6:304:GLN:HB3	1.80	0.63
1:I6:375:TRP:CZ2	1:CL:368:GLU:HG2	2.33	0.63
1:K6:47:GLU:CB	1:CL:20:SER:HB2	2.20	0.63
1:Y6:206:LEU:HD12	1:a6:244:ASP:OD2	1.99	0.63
1:g6:57:LYS:HG3	1:CP:143:GLN:NE2	2.09	0.63
1:g6:103:LYS:HE2	1:i6:304:GLN:HB3	1.81	0.63
1:C7:29:TYR:O	1:LK:312:PRO:CD	2.47	0.63
1:J7:64:ILE:HD11	1:K7:88:GLU:OE2	1.98	0.63
1:R7:259:PHE:CD1	1:S7:259:PHE:CE2	2.87	0.63
1:Y7:103:LYS:HE2	1:a7:304:GLN:HB3	1.81	0.63
1:Z7:64:ILE:HD11	1:a7:88:GLU:OE2	1.98	0.63
1:g7:22:LEU:HD13	1:CE:47:GLU:OE2	1.97	0.63
1:Q8:206:LEU:HD12	1:S8:244:ASP:OD2	1.99	0.63
2:k8:45:ILE:HG13	2:k8:46:HIS:CA	2.29	0.63
3:AB:45:TYR:HB3	3:AB:301:PRO:HA	1.79	0.63
3:AC:193:ILE:CG1	5:EN:37:ASP:OD2	2.37	0.63
1:AE:206:LEU:HD12	1:CE:244:ASP:OD2	1.99	0.63
1:BE:361:LYS:HE3	1:CP:370:ASP:OD2	1.97	0.63
1:SE:299:ALA:CB	1:JQ:226:ILE:HG22	2.29	0.63
1:TE:226:ILE:HG22	1:IQ:299:ALA:CB	2.29	0.63
1:bE:20:SER:HG	1:bE:21:ALA:N	1.96	0.63
1:bE:64:ILE:HD11	1:cE:88:GLU:OE2	1.98	0.63
5:NF:230:SER:O	5:CM:266:THR:N	2.29	0.63
2:HG:52:SER:O	1:YL:62:LEU:CD1	2.46	0.63
1:JG:259:PHE:CD1	1:KG:259:PHE:CE2	2.87	0.63
1:YG:206:LEU:HD12	1:aG:244:ASP:OD2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gG:62:LEU:CD1	2:HL:52:SER:O	2.46	0.63
1:gG:208:LEU:CD1	1:gG:391:ILE:HD12	1.95	0.63
5:EI:21:ILE:HG22	5:EO:55:LEU:HD13	1.81	0.63
1:KJ:79:GLN:HB2	1:KJ:353:LYS:HD2	1.80	0.63
1:CK:38:LYS:HE2	1:hR:222:SER:C	2.08	0.63
1:LK:372:VAL:HB	2:FP:10:MET:CB	2.29	0.63
1:JQ:259:PHE:CD1	1:KQ:259:PHE:CE2	2.87	0.63
1:JR:259:PHE:CD1	1:KR:259:PHE:CE2	2.87	0.63
1:gR:103:LYS:HE2	1:iR:304:GLN:HB3	1.80	0.63
1:C1:368:GLU:HG2	1:bQ:375:TRP:CZ2	2.33	0.63
1:I1:137:ASP:OD2	1:UE:49:PHE:CB	2.39	0.63
1:J1:98:ASN:HB3	1:Q1:28:ASP:O	1.99	0.63
1:R1:226:ILE:HG22	1:Q6:299:ALA:CB	2.29	0.63
1:T1:136:ASN:HA	1:CJ:81:PHE:CZ	2.33	0.63
1:X1:208:LEU:HD11	1:X1:391:ILE:HD13	1.46	0.63
1:Y1:98:ASN:HB3	1:CL:28:ASP:O	1.99	0.63
1:Z1:98:ASN:HD22	1:Z1:99:MET:N	1.97	0.63
1:h1:47:GLU:OE2	1:QG:22:LEU:HD13	1.97	0.63
1:h1:98:ASN:HD22	1:h1:99:MET:H	1.45	0.63
5:F2:28:TYR:O	3:AB:9:ASN:HB3	1.99	0.63
1:A3:98:ASN:HB3	1:C8:28:ASP:O	1.99	0.63
1:I3:222:SER:OG	1:I4:53:TYR:HD1	1.77	0.63
1:K3:98:ASN:HD22	1:K3:99:MET:H	1.45	0.63
1:Q3:28:ASP:O	1:Z8:98:ASN:HB3	1.99	0.63
2:a3:11:MET:HG2	1:BK:133:LEU:CG	2.27	0.63
2:E4:45:ILE:HG13	2:E4:46:HIS:CA	2.29	0.63
1:K4:49:PHE:CB	1:QL:137:ASP:OD2	2.39	0.63
1:R4:223:GLY:HA2	1:BS:53:TYR:OH	1.98	0.63
1:R4:259:PHE:CD1	1:S4:259:PHE:CE2	2.87	0.63
1:Y4:259:PHE:CD1	1:Z4:259:PHE:CE2	2.87	0.63
1:f4:299:ALA:CB	1:ZG:226:ILE:HG22	2.29	0.63
5:N5:230:SER:C	5:CN:266:THR:N	2.57	0.63
5:O5:371:PRO:CB	5:CN:275:ASN:ND2	2.56	0.63
1:C6:22:LEU:HD13	1:iG:47:GLU:OE2	1.97	0.63
1:C6:368:GLU:HG2	1:gG:375:TRP:CZ2	2.33	0.63
1:J6:206:LEU:HD21	2:P6:37:SER:HB2	1.81	0.63
1:Q6:31:LYS:HG2	1:LJ:314:GLY:HA2	1.77	0.63
1:R6:162:ASP:HA	1:R6:165:VAL:HG22	1.78	0.63
1:a6:47:GLU:OE2	1:SE:22:LEU:HD13	1.97	0.63
1:h6:259:PHE:CD1	1:i6:259:PHE:CE2	2.87	0.63
1:i6:47:GLU:OE2	1:DJ:22:LEU:HD22	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:98:ASN:HB3	1:I7:28:ASP:O	1.99	0.63
1:B7:47:GLU:OE2	1:DP:22:LEU:HD22	1.98	0.63
1:I7:368:GLU:HG2	1:gR:375:TRP:CZ2	2.33	0.63
1:Q7:28:ASP:O	1:AG:98:ASN:HB3	1.99	0.63
1:Y7:299:ALA:CB	1:JR:226:ILE:HG22	2.29	0.63
1:Z7:98:ASN:HB3	1:I8:28:ASP:O	1.99	0.63
1:g8:29:TYR:O	1:KS:312:PRO:CD	2.47	0.63
1:g8:38:LYS:HE2	1:KS:221:ALA:O	1.99	0.63
1:g8:103:LYS:HE2	1:i8:304:GLN:HB3	1.81	0.63
1:i8:98:ASN:HD22	1:i8:99:MET:H	1.45	0.63
3:A9:202:ASN:ND2	5:DH:38:TYR:CD1	2.67	0.63
3:AA:115:ILE:CA	2:MK:7:MET:CE	2.76	0.63
1:AD:63:LEU:O	1:AD:64:ILE:C	2.39	0.63
1:AD:82:ILE:HG13	1:KK:143:GLN:C	1.94	0.63
1:CD:58:ILE:HD13	1:YG:55:PHE:CD2	2.33	0.63
1:DD:109:LEU:HD11	1:JS:105:GLU:C	2.08	0.63
1:DD:261:ILE:HG13	1:DD:265:ASP:OD2	1.98	0.63
1:KD:169:LYS:HD2	1:KD:318:THR:HB	1.80	0.63
2:HE:1:MET:H1	1:CP:150:ASN:HD21	1.38	0.63
1:LE:259:PHE:CD1	1:ME:259:PHE:CE2	2.87	0.63
1:bE:206:LEU:HD21	2:hE:37:SER:HB2	1.81	0.63
1:BG:98:ASN:HD22	1:BG:99:MET:N	1.97	0.63
1:ZG:259:PHE:CD1	1:aG:259:PHE:CE2	2.87	0.63
1:aG:98:ASN:HD22	1:aG:99:MET:H	1.45	0.63
1:bG:107:LEU:HD21	1:BK:369:PHE:CZ	2.32	0.63
5:EI:36:ALA:C	3:AN:194:ASN:CG	2.66	0.63
1:BJ:157:LYS:HZ2	2:iL:2:TYR:HE2	1.20	0.63
1:BK:289:GLN:OE1	1:BK:326:GLU:OE2	2.17	0.63
1:LK:363:PRO:CG	2:FP:9:SER:HB3	2.23	0.63
1:LK:372:VAL:CB	2:FP:10:MET:CB	2.76	0.63
2:MK:2:TYR:HE2	1:KP:153:LEU:CG	2.11	0.63
1:AL:64:ILE:HD11	1:BL:88:GLU:OE2	1.98	0.63
1:JL:226:ILE:HG22	1:YR:299:ALA:CB	2.29	0.63
1:RL:226:ILE:HG22	1:QR:299:ALA:CB	2.29	0.63
3:AM:112:ILE:HD12	2:LS:17:ASP:OD2	1.84	0.63
3:AN:45:TYR:HB3	3:AN:301:PRO:HA	1.79	0.63
3:AO:28:LYS:HZ1	1:IS:140:PHE:HE1	1.46	0.63
1:BP:289:GLN:OE1	1:BP:326:GLU:OE2	2.17	0.63
1:JQ:206:LEU:HD21	2:PQ:37:SER:HB2	1.81	0.63
1:JR:64:ILE:HD11	1:KR:88:GLU:OE2	1.98	0.63
1:A1:259:PHE:CD1	1:B1:259:PHE:CE2	2.87	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:28:ASP:O	1:JQ:98:ASN:HB3	1.99	0.63
1:J1:64:ILE:HD11	1:K1:88:GLU:OE2	1.98	0.63
1:C3:28:ASP:O	1:A4:98:ASN:HB3	1.99	0.63
1:A3:5:SER:HB2	1:DQ:5:SER:HB2	1.80	0.63
1:A3:206:LEU:HD21	2:H3:37:SER:HB2	1.81	0.63
1:B3:98:ASN:HD22	1:B3:99:MET:N	1.97	0.63
1:I3:299:ALA:CB	1:R8:226:ILE:HG22	2.29	0.63
1:Q3:299:ALA:CB	1:J8:226:ILE:HG22	2.29	0.63
1:R3:226:ILE:HG22	1:I8:299:ALA:CB	2.29	0.63
1:C4:62:LEU:CD1	2:XG:52:SER:O	2.46	0.63
1:C4:299:ALA:CB	1:RG:226:ILE:HG22	2.29	0.63
1:A4:226:ILE:HG22	1:QG:299:ALA:CB	2.29	0.63
1:B4:98:ASN:HD22	1:B4:99:MET:H	1.45	0.63
1:J4:5:SER:HB2	1:TR:5:SER:HB2	1.80	0.63
1:Q4:299:ALA:CB	1:h8:226:ILE:HG22	2.29	0.63
1:R4:206:LEU:HD21	2:W4:37:SER:HB2	1.81	0.63
1:R4:226:ILE:HG22	1:g8:299:ALA:CB	2.29	0.63
2:W4:52:SER:O	1:g8:62:LEU:CD1	2.46	0.63
1:X4:62:LEU:CD1	2:f8:52:SER:O	2.46	0.63
1:Z4:98:ASN:HD22	1:Z4:99:MET:H	1.45	0.63
1:g4:20:SER:HG	1:g4:21:ALA:N	1.95	0.63
1:A6:64:ILE:HD11	1:B6:88:GLU:OE2	1.98	0.63
1:A6:259:PHE:CD1	1:B6:259:PHE:CE2	2.87	0.63
1:J6:98:ASN:HB3	1:IR:28:ASP:O	1.99	0.63
2:M6:45:ILE:HG13	2:M6:46:HIS:CA	2.29	0.63
1:Q6:208:LEU:HD12	1:Q6:391:ILE:CD1	2.24	0.63
1:g6:30:SER:HA	1:LP:315:ALA:HB2	1.78	0.63
1:i6:57:LYS:HD2	1:DJ:143:GLN:CG	2.19	0.63
1:B7:98:ASN:HD22	1:B7:99:MET:N	1.97	0.63
1:J7:64:ILE:HG13	2:N7:53:PHE:HD2	1.58	0.63
1:J7:226:ILE:HG22	1:bQ:299:ALA:CB	2.29	0.63
1:J7:259:PHE:CD1	1:K7:259:PHE:CE2	2.87	0.63
1:Q7:62:LEU:CD1	2:XQ:52:SER:O	2.46	0.63
1:Q7:368:GLU:CG	1:YL:375:TRP:CZ2	2.73	0.63
1:Y7:368:GLU:HG2	1:QQ:375:TRP:CZ2	2.33	0.63
1:Z7:89:TYR:CE2	1:IR:63:LEU:CD1	2.76	0.63
1:i7:49:PHE:CB	1:C8:137:ASP:OD2	2.39	0.63
1:A8:64:ILE:HD11	1:B8:88:GLU:OE2	1.98	0.63
1:A8:98:ASN:HB3	1:QL:28:ASP:O	1.99	0.63
1:B8:98:ASN:HD22	1:B8:99:MET:H	1.45	0.63
1:g8:109:LEU:HD23	1:CD:106:GLU:HA	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h8:98:ASN:HB3	1:IQ:28:ASP:O	1.99	0.63
5:E9:10:TYR:OH	5:EA:66:TYR:N	2.31	0.63
3:AA:9:ASN:HB3	5:FC:28:TYR:O	1.99	0.63
4:BA:195:LYS:H	4:BC:144:GLN:HE21	1.45	0.63
5:CA:266:THR:N	5:NC:230:SER:C	2.57	0.63
1:AD:60:GLU:HG2	1:KD:86:SER:CA	2.29	0.63
1:BE:105:GLU:OE1	1:BJ:110:LYS:HE2	1.99	0.63
1:ME:98:ASN:HD22	1:ME:99:MET:N	1.97	0.63
1:aE:299:ALA:CB	1:AR:226:ILE:HG22	2.29	0.63
1:bE:5:SER:HB2	1:bL:5:SER:HB2	1.80	0.63
1:bE:259:PHE:CD1	1:cE:259:PHE:CE2	2.87	0.63
1:RG:206:LEU:HD21	2:XG:37:SER:HB2	1.81	0.63
1:RG:259:PHE:CD1	1:SG:259:PHE:CE2	2.87	0.63
1:gG:299:ALA:CB	1:AL:226:ILE:HG22	2.29	0.63
3:AH:9:ASN:HB3	5:FN:28:TYR:O	1.99	0.63
3:AH:45:TYR:HB3	3:AH:301:PRO:HA	1.79	0.63
1:KJ:32:SER:HB3	1:AP:170:GLU:CD	2.18	0.63
1:KJ:47:GLU:CD	1:LP:22:LEU:CD2	2.70	0.63
1:LJ:33:TRP:CB	1:CS:382:LYS:CG	2.44	0.63
1:CK:152:ALA:O	2:kR:8:ARG:NH1	2.31	0.63
1:CL:103:LYS:HE2	1:BL:304:GLN:HB3	1.80	0.63
1:AL:64:ILE:HG13	2:FL:53:PHE:HD2	1.58	0.63
1:AL:259:PHE:CD1	1:BL:259:PHE:CE2	2.87	0.63
5:FM:28:TYR:O	3:AO:9:ASN:HB3	1.99	0.63
3:AO:36:LEU:HD21	1:IS:139:ARG:NE	2.14	0.63
3:AO:45:TYR:HB3	3:AO:301:PRO:HA	1.79	0.63
1:AP:63:LEU:O	1:AP:64:ILE:C	2.39	0.63
1:IQ:208:LEU:CD1	1:IQ:391:ILE:HD12	1.95	0.63
1:RQ:98:ASN:HB3	1:QR:28:ASP:O	1.99	0.63
1:cQ:259:PHE:CD1	1:dQ:259:PHE:CE2	2.87	0.63
1:JR:64:ILE:HG13	2:NR:53:PHE:HD2	1.58	0.63
1:QR:206:LEU:HD12	1:SR:244:ASP:OD2	1.99	0.63
1:RR:162:ASP:HA	1:RR:165:VAL:HG22	1.78	0.63
1:hR:206:LEU:HD21	2:mR:37:SER:HB2	1.81	0.63
1:IS:60:GLU:HG2	1:JS:86:SER:CA	2.29	0.63
1:A1:64:ILE:HD11	1:B1:88:GLU:OE2	1.98	0.63
1:T1:31:LYS:O	1:CJ:125:ILE:CD1	2.30	0.63
1:Y1:207:ASN:HD21	1:I6:244:ASP:HB2	1.64	0.63
1:Y1:226:ILE:HG22	1:I6:299:ALA:CB	2.29	0.63
1:f1:20:SER:HB2	1:B3:47:GLU:CB	2.20	0.63
5:E2:21:ILE:HG23	5:E9:55:LEU:HD21	1.76	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J3:226:ILE:HG22	1:Q8:299:ALA:CB	2.29	0.63
1:J3:259:PHE:CD1	1:K3:259:PHE:CE2	2.87	0.63
2:c3:45:ILE:HG13	2:c3:46:HIS:CA	2.29	0.63
1:C4:22:LEU:HD13	1:BG:47:GLU:OE2	1.97	0.63
1:A4:259:PHE:CD1	1:B4:259:PHE:CE2	2.87	0.63
1:B4:98:ASN:HD22	1:B4:99:MET:N	1.97	0.63
1:I4:244:ASP:HB2	1:A8:207:ASN:HD21	1.64	0.63
1:Q4:22:LEU:HD13	1:KL:47:GLU:OE2	1.97	0.63
1:T4:50:VAL:H	1:AS:137:ASP:CG	2.03	0.63
1:Y4:206:LEU:HD21	2:e4:37:SER:HB2	1.81	0.63
1:g4:106:GLU:N	1:BK:109:LEU:CD1	2.61	0.63
5:E5:55:LEU:HD13	5:EN:21:ILE:HG22	1.81	0.63
1:Q6:99:MET:SD	1:YQ:136:ASN:ND2	2.67	0.63
1:Q6:206:LEU:HD12	1:S6:244:ASP:OD2	1.99	0.63
1:R6:98:ASN:HB3	1:Q8:28:ASP:O	1.99	0.63
1:T6:5:SER:HB2	1:JG:5:SER:HB2	1.80	0.63
1:a6:98:ASN:HD22	1:a6:99:MET:N	1.97	0.63
1:g6:58:ILE:HD12	1:CP:55:PHE:CB	2.29	0.63
1:i6:98:ASN:HD22	1:i6:99:MET:N	1.97	0.63
1:C7:47:GLU:CD	1:CK:22:LEU:HD23	2.22	0.63
1:C7:103:LYS:HE2	1:B7:304:GLN:HB3	1.80	0.63
1:A7:207:ASN:HD21	1:gR:244:ASP:HB2	1.64	0.63
1:I7:103:LYS:HE2	1:K7:304:GLN:HB3	1.80	0.63
1:K7:98:ASN:HD22	1:K7:99:MET:N	1.97	0.63
2:M7:45:ILE:HG13	2:M7:46:HIS:CA	2.29	0.63
1:Q7:299:ALA:CB	1:RQ:226:ILE:HG22	2.29	0.63
2:U7:45:ILE:HG13	2:U7:46:HIS:CA	2.29	0.63
1:Z7:206:LEU:HD21	2:f7:37:SER:HB2	1.81	0.63
1:h8:259:PHE:CD1	1:i8:259:PHE:CE2	2.87	0.63
5:E9:21:ILE:HG22	5:EA:55:LEU:HD13	1.80	0.63
5:EB:66:TYR:N	5:EF:10:TYR:OH	2.31	0.63
5:NB:230:SER:C	5:CF:266:THR:N	2.57	0.63
3:AC:194:ASN:CG	5:EN:36:ALA:C	2.66	0.63
1:BD:108:MET:CE	1:KS:369:PHE:HB2	2.29	0.63
1:CE:98:ASN:HD22	1:CE:99:MET:N	1.97	0.63
2:OE:39:ASP:N	2:OE:39:ASP:OD1	2.24	0.63
1:SE:244:ASP:HB2	1:JQ:207:ASN:HD21	1.64	0.63
1:RG:20:SER:HG	1:RG:21:ALA:N	1.96	0.63
1:hG:259:PHE:CD1	1:iG:259:PHE:CE2	2.87	0.63
4:BH:191:LYS:O	4:BN:148:SER:N	2.31	0.63
3:AI:194:ASN:CG	5:EM:36:ALA:C	2.66	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BI:191:LYS:O	4:BO:148:SER:N	2.31	0.63
5:FI:27:ARG:HH11	5:DO:26:GLU:HG2	1.62	0.63
1:KJ:104:ASN:O	1:JS:369:PHE:HZ	1.78	0.63
2:NJ:55:GLY:O	2:ES:2:TYR:CD1	2.52	0.63
1:CK:34:THR:O	1:hR:383:ALA:HB1	1.99	0.63
1:LK:57:LYS:CD	1:KP:143:GLN:OE1	2.30	0.63
2:EL:45:ILE:HG13	2:EL:46:HIS:CA	2.29	0.63
1:RL:64:ILE:HD11	1:SL:88:GLU:OE2	1.98	0.63
2:UL:45:ILE:HG13	2:UL:46:HIS:CA	2.29	0.63
2:hL:45:ILE:HG13	2:hL:46:HIS:CA	2.29	0.63
5:DM:26:GLU:HG2	5:FO:27:ARG:HH11	1.62	0.63
3:AN:202:ASN:ND2	5:DO:38:TYR:CD1	2.67	0.63
1:AQ:64:ILE:HD11	1:BQ:88:GLU:OE2	1.98	0.63
1:IQ:103:LYS:HE2	1:KQ:304:GLN:HB3	1.81	0.63
1:KQ:98:ASN:HD22	1:KQ:99:MET:N	1.97	0.63
2:ER:45:ILE:HG13	2:ER:46:HIS:CA	2.29	0.63
1:A1:226:ILE:HG22	1:C6:299:ALA:CB	2.29	0.63
1:J1:207:ASN:HD21	1:IG:244:ASP:HB2	1.64	0.63
1:K1:98:ASN:HD22	1:K1:99:MET:H	1.45	0.63
1:S1:98:ASN:HD22	1:S1:99:MET:H	1.45	0.63
1:X1:62:LEU:CD1	2:P6:52:SER:O	2.46	0.63
1:X1:103:LYS:HE2	1:Z1:304:GLN:HB3	1.80	0.63
2:b1:39:ASP:OD1	2:b1:39:ASP:N	2.24	0.63
1:f1:62:LEU:CD1	2:HQ:52:SER:O	2.46	0.63
3:A2:9:ASN:HB3	5:F9:28:TYR:O	1.98	0.63
3:A2:112:ILE:HD12	2:MD:4:GLY:O	1.99	0.63
3:A2:202:ASN:ND2	5:DC:38:TYR:CD1	2.67	0.63
1:C3:103:LYS:HE2	1:B3:304:GLN:HB3	1.81	0.63
1:A3:207:ASN:HD21	1:g7:244:ASP:HB2	1.64	0.63
1:I3:28:ASP:O	1:RR:98:ASN:HB3	1.99	0.63
1:Q3:62:LEU:CD1	2:P8:52:SER:O	2.46	0.63
2:X3:52:SER:O	1:I8:62:LEU:CD1	2.46	0.63
1:T4:33:TRP:CG	1:BS:174:MET:CB	2.82	0.63
1:X4:299:ALA:CB	1:Z8:226:ILE:HG22	2.29	0.63
1:Y4:20:SER:HG	1:Y4:21:ALA:N	1.96	0.63
1:Z4:98:ASN:HD22	1:Z4:99:MET:N	1.97	0.63
1:g4:226:ILE:HG22	1:YG:299:ALA:CB	2.29	0.63
1:i4:136:ASN:HA	1:CD:81:PHE:CZ	2.33	0.63
2:l4:52:SER:O	1:YG:62:LEU:CD1	2.46	0.63
5:E5:36:ALA:C	3:AH:194:ASN:CG	2.66	0.63
5:C5:266:THR:N	5:NI:230:SER:C	2.57	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q6:55:PHE:CD2	1:CJ:58:ILE:HD13	2.33	0.63
1:Q6:141:ASN:OD1	1:CJ:51:ASN:ND2	2.32	0.63
1:R6:206:LEU:HD21	2:X6:37:SER:HB2	1.81	0.63
1:Z6:98:ASN:HB3	1:QQ:28:ASP:O	1.99	0.63
1:C7:58:ILE:HD12	1:CK:55:PHE:CB	2.29	0.63
1:C7:62:LEU:CD1	2:mR:52:SER:O	2.46	0.63
1:C7:206:LEU:HD12	1:B7:244:ASP:OD2	1.99	0.63
1:A7:226:ILE:HG22	1:gR:299:ALA:CB	2.29	0.63
1:B7:98:ASN:HD22	1:B7:99:MET:H	1.45	0.63
2:E7:39:ASP:OD1	2:E7:39:ASP:N	2.24	0.63
1:I7:20:SER:HB2	1:iR:47:GLU:CB	2.20	0.63
1:I7:299:ALA:CB	1:cQ:226:ILE:HG22	2.29	0.63
1:I7:375:TRP:CZ2	1:CQ:368:GLU:HG2	2.33	0.63
1:R7:98:ASN:HB3	1:Y7:28:ASP:O	1.99	0.63
1:Z7:64:ILE:HG13	2:d7:53:PHE:HD2	1.58	0.63
1:j7:325:LYS:HB2	1:j7:325:LYS:HZ2	1.61	0.63
1:R8:259:PHE:CD1	1:S8:259:PHE:CE2	2.87	0.63
1:S8:98:ASN:HD22	1:S8:99:MET:H	1.45	0.63
1:Y8:375:TRP:CZ2	1:bQ:368:GLU:HG2	2.33	0.63
1:i8:98:ASN:HD22	1:i8:99:MET:N	1.97	0.63
3:A9:154:ILE:CD1	1:AK:145:LEU:HD12	2.26	0.63
5:EA:21:ILE:HG22	5:EC:55:LEU:HD13	1.81	0.63
3:AC:9:ASN:HB3	5:FH:28:TYR:O	1.99	0.63
1:CD:51:ASN:ND2	1:YG:141:ASN:OD1	2.32	0.63
1:BE:106:GLU:N	1:BJ:109:LEU:CD1	2.61	0.63
1:FE:31:LYS:O	1:CP:125:ILE:CD1	2.30	0.63
1:aE:62:LEU:CD1	2:HR:52:SER:O	2.46	0.63
1:aE:206:LEU:HD12	1:cE:244:ASP:OD2	1.99	0.63
3:AF:154:ILE:HG22	3:AF:154:ILE:O	1.99	0.63
1:CG:244:ASP:HB2	1:ZL:207:ASN:HD21	1.64	0.63
1:KG:98:ASN:HD22	1:KG:99:MET:N	1.97	0.63
1:RG:64:ILE:HD11	1:SG:88:GLU:OE2	1.98	0.63
1:ZG:206:LEU:HD21	2:fG:37:SER:HB2	1.81	0.63
1:aG:14:VAL:HA	1:DK:45:MET:HB2	1.79	0.63
1:aG:47:GLU:OE2	1:DK:22:LEU:HD22	1.98	0.63
1:gG:244:ASP:HB2	1:AL:207:ASN:HD21	1.64	0.63
1:hG:64:ILE:HD11	1:iG:88:GLU:OE2	1.98	0.63
1:hG:98:ASN:HB3	1:YR:28:ASP:O	1.99	0.63
1:hG:226:ILE:HG22	1:CL:299:ALA:CB	2.29	0.63
5:CI:266:THR:N	5:NO:230:SER:C	2.57	0.63
1:BJ:108:MET:CE	1:LP:369:PHE:HB2	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:289:GLN:OE1	1:BJ:326:GLU:OE2	2.17	0.63
1:LJ:35:PHE:HE1	1:CS:384:ILE:CD1	2.08	0.63
1:LJ:372:VAL:HB	2:ES:10:MET:CB	2.29	0.63
1:AK:170:GLU:CD	1:KP:33:TRP:CE3	2.67	0.63
1:CK:314:GLY:O	1:jR:31:LYS:CB	2.45	0.63
1:KK:79:GLN:HB2	1:KK:353:LYS:HD2	1.80	0.63
1:BL:98:ASN:HD22	1:BL:99:MET:N	1.97	0.63
1:IL:62:LEU:CD1	2:fR:52:SER:O	2.46	0.63
5:NM:230:SER:C	5:CO:266:THR:N	2.57	0.63
1:BP:209:GLN:HE22	1:BP:235:LEU:HB2	1.64	0.63
1:CQ:28:ASP:O	1:cQ:98:ASN:HB3	1.99	0.63
1:IQ:206:LEU:HD12	1:KQ:244:ASP:OD2	1.99	0.63
1:JQ:5:SER:HB2	1:bR:5:SER:HB2	1.80	0.63
2:aQ:2:TYR:OH	1:AS:157:LYS:NZ	2.25	0.63
1:IR:103:LYS:HE2	1:KR:304:GLN:HB3	1.81	0.63
1:IR:206:LEU:HD12	1:KR:244:ASP:OD2	1.99	0.63
1:ZR:64:ILE:HD11	1:aR:88:GLU:OE2	1.98	0.63
1:iR:98:ASN:HD22	1:iR:99:MET:N	1.97	0.63
1:C1:299:ALA:CB	1:A6:226:ILE:HG22	2.29	0.63
1:R1:64:ILE:HD11	1:S1:88:GLU:OE2	1.98	0.63
1:R1:383:ALA:HB1	1:CJ:34:THR:O	1.99	0.63
2:W1:52:SER:O	1:Q6:62:LEU:CD1	2.46	0.63
1:X1:206:LEU:HD12	1:Z1:244:ASP:OD2	1.99	0.63
1:Z1:98:ASN:HD22	1:Z1:99:MET:H	1.45	0.63
1:f1:28:ASP:O	1:h7:98:ASN:HB3	1.99	0.63
1:g1:5:SER:HB2	1:D4:5:SER:HB2	1.79	0.63
2:j1:45:ILE:HG13	2:j1:46:HIS:CA	2.29	0.63
3:A2:112:ILE:CD1	2:MD:4:GLY:C	2.72	0.63
3:A2:112:ILE:HD12	2:MD:4:GLY:C	2.24	0.63
5:E2:36:ALA:C	3:AF:194:ASN:CG	2.66	0.63
1:C3:62:LEU:CD1	2:n7:52:SER:O	2.46	0.63
1:C3:206:LEU:HD12	1:B3:244:ASP:OD2	1.99	0.63
1:A3:64:ILE:HD11	1:B3:88:GLU:OE2	1.98	0.63
1:Q3:367:PRO:O	1:X4:377:HIS:HE1	1.82	0.63
1:Q3:368:GLU:CG	1:X4:375:TRP:CZ2	2.73	0.63
1:R3:5:SER:HB2	1:dE:5:SER:HB2	1.80	0.63
1:S3:98:ASN:HD22	1:S3:99:MET:N	1.97	0.63
1:K4:98:ASN:HD22	1:K4:99:MET:N	1.97	0.63
1:R4:64:ILE:HD11	1:S4:88:GLU:OE2	1.98	0.63
1:X4:20:SER:HB2	1:BR:47:GLU:CB	2.20	0.63
2:E6:45:ILE:HG13	2:E6:46:HIS:CA	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R6:259:PHE:CD1	1:S6:259:PHE:CE2	2.87	0.63
1:Y6:375:TRP:CZ2	1:SE:368:GLU:HG2	2.33	0.63
1:C7:148:ALA:CB	2:NK:15:TYR:OH	2.44	0.63
1:C7:299:ALA:CB	1:hR:226:ILE:HG22	2.29	0.63
1:J7:207:ASN:HD21	1:bQ:244:ASP:HB2	1.64	0.63
1:Q7:367:PRO:O	1:YL:377:HIS:HE1	1.82	0.63
1:Y7:367:PRO:O	1:QQ:377:HIS:HE1	1.82	0.63
1:Z7:226:ILE:HG22	1:IR:299:ALA:CB	2.29	0.63
1:g7:375:TRP:CZ2	1:C8:368:GLU:HG2	2.33	0.63
1:h7:206:LEU:HD21	2:n7:37:SER:HB2	1.81	0.63
1:J8:259:PHE:CD1	1:K8:259:PHE:CE2	2.87	0.63
1:Q8:222:SER:OG	1:IG:53:TYR:HD1	1.77	0.63
1:g8:33:TRP:CD2	1:KS:174:MET:HA	2.34	0.63
5:EA:18:LEU:HD21	5:DC:61:ARG:HE	1.61	0.63
3:AC:155:GLU:N	1:AP:58:ILE:CD1	2.61	0.63
1:DD:382:LYS:CG	1:KS:33:TRP:CB	2.44	0.63
2:FD:10:MET:CB	1:KS:372:VAL:HB	2.29	0.63
1:LD:58:ILE:HD11	1:KK:57:LYS:HD2	1.81	0.63
1:LD:312:PRO:CD	1:YG:29:TYR:O	2.47	0.63
1:LD:369:PHE:HB2	1:BK:108:MET:CE	2.29	0.63
2:EE:39:ASP:N	2:EE:39:ASP:OD1	2.24	0.63
1:LE:98:ASN:HB3	1:SE:28:ASP:O	1.99	0.63
2:ZE:52:SER:O	1:IQ:62:LEU:CD1	2.46	0.63
1:bE:207:ASN:HD21	1:CR:244:ASP:HB2	1.64	0.63
1:RG:162:ASP:HA	1:RG:165:VAL:HG22	1.79	0.63
2:UG:45:ILE:HG13	2:UG:46:HIS:CA	2.29	0.63
1:aG:98:ASN:HD22	1:aG:99:MET:N	1.97	0.63
3:AH:202:ASN:ND2	5:DI:38:TYR:CD1	2.67	0.63
5:CH:266:THR:N	5:NN:230:SER:C	2.57	0.63
2:FJ:10:MET:CB	1:LP:372:VAL:HB	2.29	0.63
1:DK:261:ILE:HG13	1:DK:265:ASP:OD2	1.98	0.63
1:KK:169:LYS:HD2	1:KK:318:THR:HB	1.80	0.63
1:LK:108:MET:HE1	1:jR:367:PRO:HD2	1.81	0.63
2:NK:55:GLY:O	2:FP:2:TYR:CD1	2.52	0.63
1:BL:98:ASN:HD22	1:BL:99:MET:H	1.45	0.63
1:JL:20:SER:HG	1:JL:21:ALA:N	1.97	0.63
1:SL:98:ASN:HD22	1:SL:99:MET:H	1.45	0.63
2:XL:52:SER:O	1:QR:62:LEU:CD1	2.46	0.63
3:AO:66:ILE:HD13	1:IS:150:ASN:ND2	2.13	0.63
1:DP:261:ILE:HG13	1:DP:265:ASP:OD2	1.98	0.63
1:RQ:206:LEU:HD21	2:XQ:37:SER:HB2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JR:162:ASP:HA	1:JR:165:VAL:HG22	1.79	0.63
1:RR:206:LEU:HD21	2:XR:37:SER:HB2	1.81	0.63
1:RR:259:PHE:CD1	1:SR:259:PHE:CE2	2.87	0.63
1:ZR:259:PHE:CD1	1:aR:259:PHE:CE2	2.87	0.63
1:C1:28:ASP:O	1:J7:98:ASN:HB3	1.99	0.63
1:B1:98:ASN:HD22	1:B1:99:MET:N	1.97	0.63
2:E1:45:ILE:HG13	2:E1:46:HIS:CA	2.29	0.63
1:I1:206:LEU:HD12	1:K1:244:ASP:OD2	1.99	0.63
1:I1:299:ALA:CB	1:JG:226:ILE:HG22	2.29	0.63
1:R1:222:SER:CA	1:CJ:38:LYS:HB3	2.25	0.63
1:X1:20:SER:HB2	1:K8:47:GLU:CB	2.20	0.63
1:X1:28:ASP:O	1:R3:98:ASN:HB3	1.99	0.63
1:X1:299:ALA:CB	1:J6:226:ILE:HG22	2.29	0.63
1:g1:64:ILE:HG13	2:k1:53:PHE:HD2	1.58	0.63
1:Q3:208:LEU:CD1	1:Q3:391:ILE:HD12	1.95	0.63
1:Y3:153:LEU:HD21	2:Z3:4:GLY:HA3	1.81	0.63
1:I4:206:LEU:HD12	1:K4:244:ASP:OD2	1.99	0.63
1:Q4:367:PRO:O	1:IL:377:HIS:HE1	1.82	0.63
1:R4:162:ASP:HA	1:R4:165:VAL:HG22	1.79	0.63
1:T4:30:SER:N	1:KS:98:ASN:ND2	2.45	0.63
1:f4:375:TRP:CZ2	1:gG:368:GLU:HG2	2.33	0.63
1:g4:105:GLU:OE1	1:BK:110:LYS:HE2	1.99	0.63
3:A5:202:ASN:ND2	5:DM:38:TYR:CD1	2.67	0.63
5:D5:52:LEU:CA	3:AH:6:ARG:HH22	1.97	0.63
1:C6:28:ASP:O	1:AL:98:ASN:HB3	1.99	0.63
1:I6:368:GLU:CG	1:YR:375:TRP:CZ2	2.73	0.63
1:J6:5:SER:HB2	1:jG:5:SER:HB2	1.80	0.63
1:Q6:365:HIS:HD2	2:NJ:10:MET:HE2	1.62	0.63
1:Z6:206:LEU:HD21	2:f6:37:SER:HB2	1.81	0.63
1:g6:29:TYR:O	1:LP:312:PRO:CD	2.47	0.63
1:g6:141:ASN:OD1	1:CP:51:ASN:ND2	2.32	0.63
1:h6:98:ASN:HB3	1:g7:28:ASP:O	1.99	0.63
1:i6:14:VAL:HA	1:DJ:45:MET:HB2	1.79	0.63
2:E7:45:ILE:HG13	2:E7:46:HIS:CA	2.29	0.63
1:I7:47:GLU:CD	1:iR:22:LEU:CD2	2.72	0.63
1:Q7:103:LYS:HE2	1:S7:304:GLN:HB3	1.80	0.63
1:R7:226:ILE:HG22	1:QQ:299:ALA:CB	2.29	0.63
1:Z7:210:ASN:HD21	1:IR:71:ARG:HH22	1.43	0.63
1:g7:103:LYS:HE2	1:i7:304:GLN:HB3	1.80	0.63
1:J8:98:ASN:HB3	1:CR:28:ASP:O	1.99	0.63
1:K8:98:ASN:HD22	1:K8:99:MET:N	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L8:153:LEU:HD21	2:M8:4:GLY:HA3	1.81	0.63
1:R8:64:ILE:HG13	2:V8:53:PHE:HD2	1.58	0.63
2:U8:45:ILE:HG13	2:U8:46:HIS:CA	2.29	0.63
1:g8:141:ASN:OD1	1:BS:51:ASN:ND2	2.32	0.63
5:D9:38:TYR:CD1	3:AF:202:ASN:ND2	2.67	0.63
5:F9:112:TYR:O	5:F9:116:LEU:HB2	1.99	0.63
5:DA:38:TYR:CD1	3:AB:202:ASN:ND2	2.67	0.63
4:BB:148:SER:N	4:BF:191:LYS:O	2.31	0.63
1:DD:82:ILE:CD1	1:KS:144:THR:CA	2.54	0.63
1:DD:314:GLY:O	1:KS:31:LYS:HG3	1.87	0.63
1:KD:57:LYS:HD2	1:KS:58:ILE:HD11	1.81	0.63
1:LD:27:HIS:CG	1:DK:312:PRO:HD3	2.33	0.63
1:LD:143:GLN:OE1	1:KK:57:LYS:HD2	1.88	0.63
1:LD:314:GLY:HA3	1:YG:31:LYS:CD	2.29	0.63
1:LD:369:PHE:CE2	1:BK:105:GLU:C	2.66	0.63
2:GE:2:TYR:CZ	1:BP:157:LYS:NZ	2.52	0.63
1:AE:103:LYS:HE2	1:CE:304:GLN:HB3	1.80	0.63
1:BE:206:LEU:HD21	2:JE:37:SER:HB2	1.81	0.63
1:SE:103:LYS:HE2	1:UE:304:GLN:HB3	1.80	0.63
1:TE:98:ASN:HB3	1:IL:28:ASP:O	1.99	0.63
1:TE:206:LEU:HD21	2:ZE:37:SER:HB2	1.81	0.63
1:bE:226:ILE:HG22	1:CR:299:ALA:CB	2.29	0.63
1:AG:206:LEU:HD21	2:HG:37:SER:HB2	1.81	0.63
1:AG:210:ASN:HD21	1:YL:71:ARG:HH22	1.43	0.63
1:DG:136:ASN:ND2	1:QR:99:MET:SD	2.67	0.63
1:IG:206:LEU:HD12	1:KG:244:ASP:OD2	1.99	0.63
3:AH:150:TYR:C	1:AP:135:ASN:OD1	2.41	0.63
5:EI:10:TYR:OH	5:EO:66:TYR:N	2.31	0.63
1:DJ:312:PRO:HD3	1:LP:27:HIS:CG	2.33	0.63
1:CK:174:MET:CB	1:jR:33:TRP:CG	2.82	0.63
1:LK:21:ALA:HB2	1:DP:123:ASN:CG	2.22	0.63
1:LK:28:ASP:HB2	1:DP:304:GLN:NE2	1.88	0.63
1:CL:375:TRP:CZ2	1:YR:368:GLU:HG2	2.33	0.63
2:ML:45:ILE:HG13	2:ML:46:HIS:CA	2.29	0.63
1:CQ:375:TRP:CZ2	1:gR:368:GLU:CG	2.73	0.63
1:AQ:259:PHE:CD1	1:BQ:259:PHE:CE2	2.87	0.63
1:JQ:64:ILE:HD11	1:KQ:88:GLU:OE2	1.98	0.63
1:cQ:64:ILE:HD11	1:dQ:88:GLU:OE2	1.98	0.63
1:eQ:5:SER:HB2	1:hR:5:SER:HB2	1.80	0.63
1:BR:98:ASN:HD22	1:BR:99:MET:N	1.97	0.63
1:KR:98:ASN:HD22	1:KR:99:MET:N	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:209:GLN:HE22	1:AS:235:LEU:HB2	1.64	0.63
1:I1:244:ASP:HB2	1:JG:207:ASN:HD21	1.64	0.62
1:I1:368:GLU:HG2	1:SE:375:TRP:CZ2	2.33	0.62
1:R1:207:ASN:HD21	1:Q6:244:ASP:HB2	1.64	0.62
2:b1:45:ILE:HG13	2:b1:46:HIS:CA	2.29	0.62
1:f1:377:HIS:HE1	1:QG:367:PRO:O	1.82	0.62
1:h1:99:MET:SD	1:K7:136:ASN:ND2	2.72	0.62
5:E2:55:LEU:HD21	5:EB:21:ILE:HG23	1.76	0.62
2:M3:45:ILE:HG13	2:M3:46:HIS:CA	2.29	0.62
1:Q3:368:GLU:HG2	1:X4:375:TRP:CZ2	2.33	0.62
1:R3:207:ASN:HD21	1:I8:244:ASP:HB2	1.64	0.62
1:C4:47:GLU:CD	1:BG:22:LEU:CD2	2.72	0.62
1:I4:28:ASP:O	1:R8:98:ASN:HB3	1.99	0.62
1:J4:206:LEU:HD21	2:P4:37:SER:HB2	1.81	0.62
1:J4:226:ILE:HG22	1:C8:299:ALA:CB	2.29	0.62
1:Q4:103:LYS:HE2	1:S4:304:GLN:HB3	1.81	0.62
1:T4:29:TYR:C	1:BS:315:ALA:HB1	2.23	0.62
2:b4:45:ILE:HG13	2:b4:46:HIS:CA	2.29	0.62
5:E5:10:TYR:OH	5:EI:66:TYR:N	2.31	0.62
5:E5:55:LEU:HD21	5:EN:21:ILE:HG23	1.76	0.62
1:K6:22:LEU:CD2	1:CL:47:GLU:CD	2.72	0.62
1:K6:49:PHE:CB	1:CL:137:ASP:OD2	2.39	0.62
1:Q6:33:TRP:CD2	1:LJ:174:MET:HA	2.34	0.62
1:Y6:103:LYS:HE2	1:a6:304:GLN:HB3	1.80	0.62
1:Y6:377:HIS:HE1	1:SE:367:PRO:O	1.82	0.62
1:g6:71:ARG:HH22	1:BE:210:ASN:HD21	1.43	0.62
1:I7:377:HIS:HE1	1:CQ:367:PRO:O	1.82	0.62
1:K7:98:ASN:HD22	1:K7:99:MET:H	1.45	0.62
1:Q7:368:GLU:HG2	1:YL:375:TRP:CZ2	2.33	0.62
1:S7:99:MET:SD	1:ME:136:ASN:ND2	2.72	0.62
1:Y7:47:GLU:CD	1:SQ:22:LEU:CD2	2.72	0.62
1:g7:368:GLU:HG2	1:AE:375:TRP:CZ2	2.33	0.62
1:C8:206:LEU:HD12	1:B8:244:ASP:OD2	1.99	0.62
1:I8:206:LEU:HD12	1:K8:244:ASP:OD2	1.99	0.62
1:a8:98:ASN:HD22	1:a8:99:MET:N	1.97	0.62
1:g8:206:LEU:HD12	1:i8:244:ASP:OD2	1.99	0.62
1:j8:5:SER:HB2	1:JL:5:SER:HB2	1.79	0.62
3:AA:107:LEU:C	2:MK:19:ARG:CD	2.72	0.62
5:EA:140:ASP:HB3	5:CA:139:LYS:CD	2.14	0.62
3:AC:154:ILE:HG22	3:AC:154:ILE:O	1.99	0.62
4:BC:191:LYS:O	4:BH:148:SER:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EC:10:TYR:OH	5:EH:66:TYR:N	2.31	0.62
5:FC:112:TYR:O	5:FC:116:LEU:HB2	1.99	0.62
1:AD:58:ILE:CG1	3:AF:154:ILE:CG2	2.76	0.62
1:KD:104:ASN:O	1:KK:369:PHE:HZ	1.78	0.62
1:LD:144:THR:CA	1:DK:82:ILE:CD1	2.54	0.62
1:LD:153:LEU:HD13	2:FK:2:TYR:CE2	2.34	0.62
2:ND:10:MET:HE2	1:YG:365:HIS:HD2	1.62	0.62
1:VE:325:LYS:HB2	1:VE:325:LYS:HZ2	1.61	0.62
1:aE:244:ASP:HB2	1:AR:207:ASN:HD21	1.64	0.62
5:NF:230:SER:C	5:CM:266:THR:N	2.57	0.62
1:BG:99:MET:SD	1:SR:136:ASN:ND2	2.72	0.62
1:JG:206:LEU:HD21	2:PG:37:SER:HB2	1.81	0.62
3:AI:154:ILE:O	3:AI:154:ILE:HG22	1.99	0.62
1:DJ:261:ILE:HG13	1:DJ:265:ASP:OD2	1.98	0.62
1:LJ:372:VAL:CB	2:ES:10:MET:CB	2.76	0.62
1:CK:38:LYS:HB3	1:hR:222:SER:CA	2.25	0.62
1:LK:21:ALA:C	1:KP:47:GLU:OE1	2.39	0.62
1:CL:377:HIS:HE1	1:YR:367:PRO:O	1.82	0.62
1:BL:136:ASN:ND2	1:KL:99:MET:SD	2.72	0.62
1:IL:368:GLU:HG2	1:IQ:375:TRP:CZ2	2.33	0.62
1:RL:207:ASN:HD21	1:QR:244:ASP:HB2	1.64	0.62
1:ZL:20:SER:HG	1:ZL:21:ALA:N	1.97	0.62
1:ZL:206:LEU:HD21	2:fL:37:SER:HB2	1.81	0.62
3:AN:154:ILE:HG22	3:AN:154:ILE:O	1.99	0.62
1:RQ:259:PHE:CD1	1:SQ:259:PHE:CE2	2.87	0.62
1:R1:123:ASN:HD21	1:CJ:21:ALA:HA	1.65	0.62
1:R1:206:LEU:HD21	2:W1:37:SER:HB2	1.81	0.62
1:R1:316:VAL:CG2	1:CJ:31:LYS:CE	2.73	0.62
1:S1:136:ASN:ND2	1:K3:99:MET:SD	2.72	0.62
1:f1:368:GLU:HG2	1:C3:375:TRP:CZ2	2.33	0.62
3:A2:106:ARG:CB	2:MD:7:MET:HG2	2.29	0.62
5:C2:266:THR:N	5:N9:230:SER:C	2.57	0.62
1:B3:99:MET:SD	1:CE:136:ASN:ND2	2.72	0.62
1:C4:206:LEU:HD12	1:B4:244:ASP:OD2	1.99	0.62
1:J4:207:ASN:HD21	1:C8:244:ASP:HB2	1.64	0.62
1:Q4:206:LEU:HD12	1:S4:244:ASP:OD2	1.99	0.62
1:R4:383:ALA:HB1	1:BS:34:THR:O	1.99	0.62
1:S4:136:ASN:ND2	1:UE:99:MET:SD	2.73	0.62
1:T4:367:PRO:HD2	1:KS:108:MET:HE1	1.81	0.62
1:h4:136:ASN:ND2	1:BL:99:MET:SD	2.72	0.62
1:i4:26:ASN:HD22	1:LD:102:SER:HB3	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B5:30:LEU:H	5:EO:64:TRP:HE1	1.36	0.62
1:B6:98:ASN:HD22	1:B6:99:MET:N	1.97	0.62
1:I6:28:ASP:O	1:JL:98:ASN:HB3	1.99	0.62
1:J6:64:ILE:HD11	1:K6:88:GLU:OE2	1.98	0.62
1:Q6:109:LEU:HD23	1:BS:106:GLU:HA	1.81	0.62
1:a6:136:ASN:ND2	1:KQ:99:MET:SD	2.72	0.62
1:h6:207:ASN:HD21	1:AE:244:ASP:HB2	1.64	0.62
1:B7:14:VAL:HA	1:DP:45:MET:HB2	1.79	0.62
1:g7:367:PRO:O	1:AE:377:HIS:HE1	1.82	0.62
1:i7:99:MET:SD	1:SG:136:ASN:ND2	2.73	0.62
1:j7:153:LEU:HD21	2:k7:4:GLY:HA3	1.81	0.62
2:k7:45:ILE:HG13	2:k7:46:HIS:CA	2.29	0.62
1:R8:206:LEU:HD21	2:X8:37:SER:HB2	1.81	0.62
1:S8:99:MET:SD	1:SL:136:ASN:ND2	2.72	0.62
1:g8:58:ILE:HD12	1:BS:55:PHE:CB	2.29	0.62
1:g8:310:THR:CB	1:DD:27:HIS:CE1	2.79	0.62
5:EB:140:ASP:HB3	5:CB:139:LYS:CG	2.25	0.62
3:AC:66:ILE:HD11	2:MP:54:THR:HG21	1.71	0.62
1:AD:120:LEU:HD11	1:KK:55:PHE:CE1	2.27	0.62
1:AD:139:ARG:HH22	3:AF:30:LEU:HG	1.63	0.62
1:BE:383:ALA:HB1	1:CP:34:THR:O	1.99	0.62
1:FE:33:TRP:CG	1:CP:174:MET:CB	2.82	0.62
1:FE:367:PRO:O	1:CP:377:HIS:HE1	1.82	0.62
1:VE:153:LEU:HD21	2:WE:4:GLY:HA3	1.81	0.62
1:aE:71:ARG:HH22	1:AR:210:ASN:HD21	1.43	0.62
5:EF:66:TYR:N	5:EM:10:TYR:OH	2.31	0.62
5:FF:28:TYR:O	3:AM:9:ASN:HB3	1.98	0.62
1:BG:136:ASN:ND2	1:SG:99:MET:SD	2.72	0.62
2:EG:39:ASP:OD1	2:EG:39:ASP:N	2.24	0.62
1:QG:103:LYS:HE2	1:SG:304:GLN:HB3	1.81	0.62
1:YG:103:LYS:HE2	1:aG:304:GLN:HB3	1.80	0.62
2:cG:45:ILE:HG13	2:cG:46:HIS:CA	2.29	0.62
4:BH:195:LYS:H	4:BN:144:GLN:HE21	1.45	0.62
1:AK:60:GLU:HG2	1:KK:86:SER:CA	2.29	0.62
1:AK:118:THR:CG2	1:KP:53:TYR:O	2.45	0.62
1:LK:153:LEU:HD13	2:FP:2:TYR:CE2	2.34	0.62
1:IL:244:ASP:HB2	1:ZR:207:ASN:HD21	1.64	0.62
1:RL:206:LEU:HD21	2:XL:37:SER:HB2	1.81	0.62
1:YL:20:SER:HB2	1:SR:47:GLU:CB	2.20	0.62
5:EM:66:TYR:N	5:EO:10:TYR:OH	2.31	0.62
1:TQ:153:LEU:HD21	2:UQ:4:GLY:HA3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZQ:39:ASP:OD1	2:ZQ:39:ASP:N	2.24	0.62
1:CR:206:LEU:HD12	1:BR:244:ASP:OD2	1.99	0.62
2:UR:39:ASP:OD1	2:UR:39:ASP:N	2.24	0.62
1:hR:64:ILE:HD11	1:iR:88:GLU:OE2	1.98	0.62
1:f1:244:ASP:HB2	1:AQ:207:ASN:HD21	1.64	0.62
1:g1:98:ASN:HB3	1:gR:28:ASP:O	1.99	0.62
3:A2:193:ILE:CG1	5:EA:37:ASP:OD2	2.37	0.62
3:A2:194:ASN:CG	5:EA:36:ALA:C	2.66	0.62
5:F2:112:TYR:O	5:F2:116:LEU:HB2	2.00	0.62
1:J3:98:ASN:HB3	1:IG:28:ASP:O	1.99	0.62
1:J3:206:LEU:HD21	2:P3:37:SER:HB2	1.81	0.62
1:Q3:206:LEU:HD12	1:S3:244:ASP:OD2	1.99	0.62
2:Z3:45:ILE:HG13	2:Z3:46:HIS:CA	2.29	0.62
1:C4:244:ASP:HB2	1:RG:207:ASN:HD21	1.64	0.62
1:C4:367:PRO:O	1:CG:377:HIS:HE1	1.82	0.62
1:K4:99:MET:SD	1:i7:136:ASN:ND2	2.72	0.62
1:K4:150:ASN:HD21	2:VR:1:MET:H2	1.46	0.62
1:R4:174:MET:SD	1:BS:33:TRP:CB	2.87	0.62
1:X4:103:LYS:HE2	1:Z4:304:GLN:HB3	1.80	0.62
1:a4:153:LEU:HD21	2:b4:4:GLY:HA3	1.81	0.62
1:h4:98:ASN:HD22	1:h4:99:MET:N	1.97	0.62
2:j4:8:ARG:NH1	1:CD:152:ALA:O	2.31	0.62
3:A5:9:ASN:HB3	5:FI:28:TYR:O	1.99	0.62
1:K6:99:MET:SD	1:K8:136:ASN:ND2	2.72	0.62
1:Q6:45:MET:N	1:CJ:14:VAL:O	2.33	0.62
1:Q6:58:ILE:HD12	1:CJ:55:PHE:CB	2.29	0.62
1:T6:153:LEU:HD21	2:U6:4:GLY:HA3	1.81	0.62
1:Z6:207:ASN:HD21	1:KE:244:ASP:HB2	1.64	0.62
1:Z6:226:ILE:HG22	1:KE:299:ALA:CB	2.29	0.62
1:Z6:259:PHE:CD1	1:a6:259:PHE:CE2	2.87	0.62
1:g6:38:LYS:HE2	1:LP:221:ALA:O	1.99	0.62
1:g6:299:ALA:CB	1:BE:226:ILE:HG22	2.29	0.62
1:C7:38:LYS:HE2	1:LK:221:ALA:O	1.98	0.62
1:C7:141:ASN:OD1	1:CK:51:ASN:ND2	2.32	0.62
1:C7:208:LEU:HD11	1:C7:391:ILE:HD13	1.46	0.62
1:K7:99:MET:SD	1:a8:136:ASN:ND2	2.72	0.62
1:Q7:375:TRP:CZ2	1:QR:368:GLU:HG2	2.33	0.62
1:i7:98:ASN:HD22	1:i7:99:MET:N	1.97	0.62
1:S8:98:ASN:HD22	1:S8:99:MET:N	1.97	0.62
1:a8:99:MET:SD	1:BR:136:ASN:ND2	2.72	0.62
1:g8:29:TYR:HD2	1:KS:317:PHE:HE1	1.01	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:148:ALA:CB	2:MS:15:TYR:CZ	2.55	0.62
1:i8:47:GLU:HG2	1:DD:22:LEU:CB	2.30	0.62
3:A9:151:ASN:CA	1:AK:144:THR:CG2	2.56	0.62
5:C9:266:THR:N	5:NA:230:SER:C	2.57	0.62
5:C9:275:ASN:ND2	5:OA:371:PRO:CB	2.56	0.62
3:AB:155:GLU:CD	1:AD:136:ASN:CB	2.49	0.62
3:AB:302:TYR:HD2	3:AF:309:SER:HB2	1.65	0.62
5:DB:38:TYR:HD1	3:AO:202:ASN:ND2	1.98	0.62
2:FD:19:ARG:NH1	2:FD:20:LEU:O	2.32	0.62
1:LD:25:PHE:HD1	1:BK:99:MET:HB3	1.62	0.62
1:FE:134:ASN:O	2:HP:15:TYR:OH	2.17	0.62
1:UE:98:ASN:HD22	1:UE:99:MET:H	1.45	0.62
1:UE:136:ASN:ND2	1:KG:99:MET:SD	2.72	0.62
2:WE:45:ILE:HG13	2:WE:46:HIS:CA	2.29	0.62
1:aE:377:HIS:HE1	1:CG:367:PRO:O	1.82	0.62
1:cE:98:ASN:HD22	1:cE:99:MET:H	1.45	0.62
4:BF:148:SER:N	4:BM:191:LYS:O	2.31	0.62
5:DF:38:TYR:HD1	3:AI:202:ASN:ND2	1.98	0.62
1:CG:28:ASP:O	1:AR:98:ASN:HB3	1.99	0.62
1:AG:5:SER:HB2	1:TG:5:SER:HB2	1.79	0.62
1:AG:207:ASN:HD21	1:YL:244:ASP:HB2	1.64	0.62
1:QG:206:LEU:HD12	1:SG:244:ASP:OD2	1.99	0.62
1:SG:98:ASN:HD22	1:SG:99:MET:N	1.97	0.62
1:bG:153:LEU:HD21	2:cG:4:GLY:HA3	1.81	0.62
1:AJ:60:GLU:HG2	1:KJ:86:SER:CA	2.29	0.62
1:LJ:153:LEU:HD13	2:ES:2:TYR:CE2	2.34	0.62
2:MJ:43:VAL:HG22	2:MJ:44:GLN:HG2	1.82	0.62
1:CK:377:HIS:HE1	1:jR:367:PRO:O	1.82	0.62
2:FK:19:ARG:NH1	2:FK:20:LEU:O	2.32	0.62
1:LK:22:LEU:CD2	1:KP:47:GLU:CD	2.70	0.62
1:IL:206:LEU:HD12	1:KL:244:ASP:OD2	1.99	0.62
3:AM:112:ILE:HG21	2:LS:17:ASP:OD2	1.99	0.62
3:AM:302:TYR:HD2	3:AO:309:SER:HB2	1.65	0.62
3:AO:64:GLN:CB	1:IS:150:ASN:OD1	2.45	0.62
2:FP:19:ARG:NH1	2:FP:20:LEU:O	2.32	0.62
1:KP:79:GLN:HB2	1:KP:353:LYS:HD2	1.80	0.62
1:KP:169:LYS:HD2	1:KP:318:THR:HB	1.80	0.62
1:bQ:103:LYS:HE2	1:dQ:304:GLN:HB3	1.80	0.62
2:fQ:45:ILE:HG13	2:fQ:46:HIS:CA	2.29	0.62
1:JR:206:LEU:HD21	2:PR:37:SER:HB2	1.81	0.62
1:QR:103:LYS:HE2	1:SR:304:GLN:HB3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TR:153:LEU:HD21	2:UR:4:GLY:HA3	1.81	0.62
1:C1:206:LEU:HD12	1:B1:244:ASP:OD2	1.99	0.62
1:I1:377:HIS:HE1	1:Y6:367:PRO:O	1.82	0.62
1:J1:259:PHE:CD1	1:K1:259:PHE:CE2	2.87	0.62
1:Q1:299:ALA:CB	1:R6:226:ILE:HG22	2.29	0.62
1:T1:134:ASN:O	2:HJ:15:TYR:OH	2.17	0.62
1:X1:377:HIS:HE1	1:IR:367:PRO:O	1.82	0.62
2:m1:52:SER:O	1:CQ:62:LEU:CD1	2.46	0.62
5:N2:230:SER:C	5:CB:266:THR:N	2.57	0.62
1:J3:64:ILE:HG13	2:N3:53:PHE:HD2	1.58	0.62
1:K3:98:ASN:HD22	1:K3:99:MET:N	1.97	0.62
1:Q3:47:GLU:CD	1:Z4:22:LEU:CD2	2.72	0.62
1:Q4:375:TRP:CZ2	1:IQ:368:GLU:HG2	2.33	0.62
1:R4:20:SER:HG	1:R4:21:ALA:N	1.97	0.62
1:R4:207:ASN:HD21	1:g8:244:ASP:HB2	1.64	0.62
1:S4:98:ASN:HD22	1:S4:99:MET:N	1.97	0.62
1:S4:100:ASP:HB2	1:BS:25:PHE:O	1.99	0.62
1:Y4:98:ASN:HB3	1:bQ:28:ASP:O	1.99	0.62
1:Y4:210:ASN:HD21	1:Y8:71:ARG:HH22	1.43	0.62
1:Z4:136:ASN:ND2	1:K8:99:MET:SD	2.72	0.62
1:h4:22:LEU:CD2	1:gG:47:GLU:CD	2.72	0.62
1:i4:51:ASN:HD22	1:CD:116:MET:HE3	1.57	0.62
4:B5:191:LYS:O	4:BI:148:SER:N	2.31	0.62
5:E5:21:ILE:HG22	5:EI:55:LEU:HD13	1.81	0.62
5:E5:140:ASP:HB3	5:C5:139:LYS:CG	2.25	0.62
1:Q6:31:LYS:CD	1:LJ:314:GLY:HA3	2.29	0.62
1:Q6:103:LYS:HE2	1:S6:304:GLN:HB3	1.80	0.62
1:Y6:244:ASP:HB2	1:LE:207:ASN:HD21	1.64	0.62
1:g6:244:ASP:HB2	1:BE:207:ASN:HD21	1.64	0.62
1:h6:226:ILE:HG22	1:AE:299:ALA:CB	2.29	0.62
1:C7:310:THR:CB	1:DP:27:HIS:CE1	2.79	0.62
1:I7:137:ASP:OD2	1:iR:49:PHE:CB	2.39	0.62
1:I7:367:PRO:O	1:gR:377:HIS:HE1	1.82	0.62
1:Q7:208:LEU:HD11	1:Q7:391:ILE:HD13	1.46	0.62
1:Y7:62:LEU:CD1	2:PR:52:SER:O	2.46	0.62
1:Y7:116:MET:HE1	1:KE:54:LEU:HD11	0.78	0.62
2:c7:45:ILE:HG13	2:c7:46:HIS:CA	2.29	0.62
1:A8:259:PHE:CD1	1:B8:259:PHE:CE2	2.87	0.62
1:a8:22:LEU:CD2	1:bQ:47:GLU:CD	2.72	0.62
3:A9:149:GLN:HE21	1:AK:146:ALA:CB	2.13	0.62
5:EA:140:ASP:OD2	5:CA:139:LYS:HE2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EB:37:ASP:OD2	3:AM:193:ILE:CG1	2.37	0.62
3:AC:309:SER:HB2	3:AH:302:TYR:HD2	1.65	0.62
2:EE:45:ILE:HG13	2:EE:46:HIS:CA	2.29	0.62
1:BE:259:PHE:CD1	1:CE:259:PHE:CE2	2.87	0.62
2:HE:8:ARG:NH1	1:CP:152:ALA:O	2.31	0.62
1:cE:98:ASN:HD22	1:cE:99:MET:N	1.97	0.62
2:hE:52:SER:O	1:CR:62:LEU:CD1	2.46	0.62
3:AF:302:TYR:HD2	3:AM:309:SER:HB2	1.65	0.62
5:DF:38:TYR:CD1	3:AI:202:ASN:ND2	2.67	0.62
1:AG:64:ILE:HG13	2:FG:53:PHE:HD2	1.58	0.62
2:MG:45:ILE:HG13	2:MG:46:HIS:CA	2.29	0.62
1:ZG:64:ILE:HD11	1:aG:88:GLU:OE2	1.98	0.62
1:gG:103:LYS:HE2	1:iG:304:GLN:HB3	1.80	0.62
2:kG:45:ILE:HG13	2:kG:46:HIS:CA	2.29	0.62
1:KJ:136:ASN:ND2	1:KP:99:MET:HE1	2.14	0.62
1:LK:57:LYS:CA	1:KP:58:ILE:HG21	2.21	0.62
1:JL:64:ILE:HG13	2:NL:53:PHE:HD2	1.58	0.62
2:PL:52:SER:O	1:YR:62:LEU:CD1	2.46	0.62
1:RL:98:ASN:HB3	1:YL:28:ASP:O	1.99	0.62
1:RL:259:PHE:CD1	1:SL:259:PHE:CE2	2.87	0.62
1:ZL:259:PHE:CD1	1:aL:259:PHE:CE2	2.87	0.62
1:aL:136:ASN:ND2	1:SQ:99:MET:SD	2.72	0.62
3:AM:154:ILE:HG22	3:AM:154:ILE:O	1.99	0.62
3:AO:152:SER:HB3	1:IS:144:THR:HA	1.80	0.62
5:FO:112:TYR:O	5:FO:116:LEU:HB2	2.00	0.62
1:AP:60:GLU:HG2	1:KP:86:SER:C	2.24	0.62
1:AR:259:PHE:CD1	1:BR:259:PHE:CE2	2.87	0.62
1:JS:169:LYS:HD2	1:JS:318:THR:HB	1.80	0.62
1:A1:98:ASN:HB3	1:f4:28:ASP:O	1.99	0.62
1:J1:226:ILE:HG22	1:IG:299:ALA:CB	2.29	0.62
1:R1:259:PHE:CD1	1:S1:259:PHE:CE2	2.87	0.62
1:f1:206:LEU:HD12	1:h1:244:ASP:OD2	1.99	0.62
1:f1:208:LEU:HD12	1:f1:391:ILE:CD1	2.24	0.62
1:g1:259:PHE:CD1	1:h1:259:PHE:CE2	2.87	0.62
5:E2:10:TYR:OH	5:E9:66:TYR:N	2.31	0.62
5:E2:55:LEU:HD13	5:EB:21:ILE:HG22	1.80	0.62
1:B3:136:ASN:ND2	1:BQ:99:MET:SD	2.72	0.62
1:I3:375:TRP:CZ2	1:I4:368:GLU:CG	2.73	0.62
1:J3:89:TYR:CE2	1:Q8:63:LEU:CD1	2.76	0.62
1:K3:22:LEU:CD2	1:I4:47:GLU:CD	2.72	0.62
1:K3:136:ASN:ND2	1:B8:99:MET:SD	2.73	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L3:325:LYS:HB2	1:L3:325:LYS:HZ2	1.59	0.62
1:B4:136:ASN:ND2	1:BR:99:MET:SD	2.73	0.62
1:Q4:28:ASP:O	1:ZR:98:ASN:HB3	1.99	0.62
2:U4:8:ARG:NH1	1:BS:152:ALA:O	2.31	0.62
5:E5:66:TYR:N	5:EN:10:TYR:OH	2.31	0.62
5:F5:28:TYR:O	3:AN:9:ASN:HB3	1.99	0.62
1:A6:98:ASN:HB3	1:Y8:28:ASP:O	1.99	0.62
1:I6:367:PRO:O	1:YR:377:HIS:HE1	1.82	0.62
1:I6:377:HIS:HE1	1:CL:367:PRO:O	1.82	0.62
2:U6:45:ILE:HG13	2:U6:46:HIS:CA	2.29	0.62
1:Y6:299:ALA:CB	1:LE:226:ILE:HG22	2.29	0.62
1:g6:33:TRP:CD2	1:LP:174:MET:HA	2.34	0.62
1:g6:365:HIS:HD2	2:NP:10:MET:HE2	1.62	0.62
1:C7:14:VAL:CB	1:CK:45:MET:HE2	2.02	0.62
1:Q7:377:HIS:HE1	1:QR:367:PRO:O	1.82	0.62
1:S7:98:ASN:HD22	1:S7:99:MET:N	1.97	0.62
1:Z7:259:PHE:CD1	1:a7:259:PHE:CE2	2.87	0.62
1:h7:259:PHE:CD1	1:i7:259:PHE:CE2	2.87	0.62
1:C8:377:HIS:HE1	1:AE:367:PRO:O	1.82	0.62
1:J8:206:LEU:HD21	2:P8:37:SER:HB2	1.81	0.62
2:M8:45:ILE:HG13	2:M8:46:HIS:CA	2.29	0.62
1:Q8:208:LEU:HD11	1:Q8:391:ILE:HD13	1.46	0.62
1:S8:22:LEU:CD2	1:IG:47:GLU:CD	2.72	0.62
1:T8:153:LEU:HD21	2:U8:4:GLY:HA3	1.81	0.62
1:Y8:206:LEU:HD12	1:a8:244:ASP:OD2	1.99	0.62
1:h8:20:SER:HG	1:h8:21:ALA:N	1.98	0.62
3:AB:154:ILE:HG22	3:AB:154:ILE:O	1.99	0.62
4:BC:9:TYR:CD2	5:FN:43:LYS:HD2	2.35	0.62
2:MD:11:MET:HE3	1:KK:372:VAL:HG21	1.68	0.62
1:TE:259:PHE:CD1	1:UE:259:PHE:CE2	2.87	0.62
1:UE:98:ASN:HD22	1:UE:99:MET:N	1.97	0.62
1:cE:22:LEU:CD2	1:CG:47:GLU:CD	2.72	0.62
1:CG:206:LEU:HD12	1:BG:244:ASP:OD2	1.99	0.62
2:EG:45:ILE:HG13	2:EG:46:HIS:CA	2.29	0.62
1:ZG:98:ASN:HB3	1:gG:28:ASP:O	1.99	0.62
1:aG:47:GLU:HG2	1:DK:22:LEU:CB	2.30	0.62
1:gG:206:LEU:HD12	1:iG:244:ASP:OD2	1.99	0.62
1:hG:207:ASN:HD21	1:CL:244:ASP:HB2	1.64	0.62
5:FI:112:TYR:O	5:FI:116:LEU:HB2	2.00	0.62
1:DJ:116:MET:SD	1:LP:54:LEU:HD13	2.40	0.62
1:LJ:29:TYR:CZ	1:CS:302:ASP:CB	2.70	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:357:LYS:HG2	2:EK:20:LEU:HD12	1.81	0.62
1:CK:33:TRP:CB	1:hR:174:MET:SD	2.87	0.62
1:CK:81:PHE:CZ	1:jR:136:ASN:HA	2.33	0.62
1:YL:208:LEU:HD12	1:YL:391:ILE:CD1	2.24	0.62
1:YL:367:PRO:O	1:QR:377:HIS:HE1	1.82	0.62
2:cL:45:ILE:HG13	2:cL:46:HIS:CA	2.29	0.62
1:BP:357:LYS:HG2	2:EP:20:LEU:HD12	1.82	0.62
2:MP:43:VAL:HG22	2:MP:44:GLN:HG2	1.82	0.62
1:CQ:377:HIS:HE1	1:gR:367:PRO:O	1.82	0.62
1:DQ:153:LEU:HD21	2:EQ:4:GLY:HA3	1.81	0.62
1:SQ:98:ASN:HD22	1:SQ:99:MET:N	1.97	0.62
1:QR:208:LEU:CD1	1:QR:391:ILE:HD12	1.95	0.62
1:YR:103:LYS:HE2	1:aR:304:GLN:HB3	1.80	0.62
1:bR:153:LEU:HD21	2:cR:4:GLY:HA3	1.81	0.62
1:I1:367:PRO:O	1:SE:377:HIS:HE1	1.82	0.62
1:K1:99:MET:SD	1:S8:136:ASN:ND2	2.73	0.62
1:K1:136:ASN:ND2	1:ME:99:MET:SD	2.72	0.62
1:S1:47:GLU:CB	1:Q8:20:SER:HB2	2.20	0.62
3:A2:154:ILE:HG22	3:A2:154:ILE:O	1.99	0.62
1:C3:368:GLU:HG2	1:QG:375:TRP:CZ2	2.33	0.62
2:H3:52:SER:O	1:g7:62:LEU:CD1	2.46	0.62
1:I3:20:SER:HB2	1:SL:47:GLU:CB	2.20	0.62
1:L3:153:LEU:HD21	2:M3:4:GLY:HA3	1.81	0.62
1:I4:299:ALA:CB	1:A8:226:ILE:HG22	2.29	0.62
2:M4:45:ILE:HG13	2:M4:46:HIS:CA	2.29	0.62
1:R4:105:GLU:OE1	1:BD:110:LYS:HE2	1.99	0.62
1:Y4:64:ILE:HD11	1:Z4:88:GLU:OE2	1.98	0.62
1:Y4:111:ARG:CD	1:Y8:371:GLU:OE1	2.44	0.62
1:f4:377:HIS:HE1	1:gG:367:PRO:O	1.82	0.62
1:g4:119:LYS:HD3	1:CD:38:LYS:H	1.65	0.62
3:A5:154:ILE:O	3:A5:154:ILE:HG22	1.99	0.62
1:C6:206:LEU:HD12	1:B6:244:ASP:OD2	1.99	0.62
1:Q6:111:ARG:HG3	1:BS:105:GLU:HG2	1.82	0.62
1:S6:153:LEU:HD21	2:DS:4:GLY:HA3	1.81	0.62
2:U6:39:ASP:N	2:U6:39:ASP:OD1	2.24	0.62
1:Z6:210:ASN:HD21	1:KE:71:ARG:HH22	1.43	0.62
1:a6:47:GLU:CB	1:SE:20:SER:HB2	2.20	0.62
1:b6:153:LEU:HD21	2:c6:4:GLY:HA3	1.81	0.62
1:g6:109:LEU:HD23	1:CJ:106:GLU:HA	1.81	0.62
1:i6:99:MET:SD	1:B8:136:ASN:ND2	2.72	0.62
1:i6:153:LEU:HD21	2:EJ:4:GLY:HA3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:206:LEU:HD21	2:H7:37:SER:HB2	1.81	0.62
1:B7:57:LYS:HD2	1:DP:143:GLN:CG	2.19	0.62
1:I7:244:ASP:HB2	1:cQ:207:ASN:HD21	1.64	0.62
1:J7:206:LEU:HD21	2:P7:37:SER:HB2	1.81	0.62
1:R7:5:SER:HB2	1:TL:5:SER:HB2	1.80	0.62
1:g7:377:HIS:HE1	1:C8:367:PRO:O	1.82	0.62
1:i7:98:ASN:HD22	1:i7:99:MET:H	1.45	0.62
1:J8:64:ILE:HD11	1:K8:88:GLU:OE2	1.98	0.62
1:g8:27:HIS:CG	1:KS:312:PRO:HD3	2.34	0.62
3:A9:9:ASN:HB3	5:FA:28:TYR:O	1.99	0.62
3:AA:114:PHE:HA	2:MK:8:ARG:HA	1.66	0.62
3:AA:115:ILE:HG13	2:MK:7:MET:HB3	1.81	0.62
5:FA:112:TYR:O	5:FA:116:LEU:HB2	2.00	0.62
5:DB:38:TYR:CD1	3:AO:202:ASN:ND2	2.67	0.62
3:AC:7:GLY:N	5:DN:24:THR:CA	2.47	0.62
4:BC:14:SER:OG	5:FH:37:ASP:OD1	2.11	0.62
5:EC:140:ASP:HB3	5:CC:139:LYS:CG	2.25	0.62
1:KD:29:TYR:HH	1:IS:297:LEU:HD11	1.55	0.62
1:KD:372:VAL:HG21	2:LS:11:MET:HE3	1.68	0.62
1:LD:28:ASP:HB2	1:DK:304:GLN:NE2	1.88	0.62
1:LD:221:ALA:O	1:YG:38:LYS:HE2	1.99	0.62
1:LD:372:VAL:HB	2:FK:10:MET:CB	2.29	0.62
2:MD:51:GLN:HG3	3:AF:114:PHE:CZ	2.31	0.62
1:aE:371:GLU:OE1	1:AR:111:ARG:CD	2.44	0.62
1:aG:44:THR:HB	1:DK:16:LYS:HZ2	1.65	0.62
1:AJ:43:ASN:CB	5:DN:25:ARG:HH11	2.12	0.62
1:LJ:143:GLN:OE1	1:JS:57:LYS:HD2	1.88	0.62
1:KK:98:ASN:HD22	1:KP:30:SER:HB3	1.54	0.62
1:LK:58:ILE:HD11	1:KP:57:LYS:HD2	1.81	0.62
1:AL:206:LEU:HD21	2:HL:37:SER:HB2	1.81	0.62
1:IL:299:ALA:CB	1:ZR:226:ILE:HG22	2.29	0.62
1:JL:259:PHE:CD1	1:KL:259:PHE:CE2	2.87	0.62
1:QL:299:ALA:CB	1:RR:226:ILE:HG22	2.29	0.62
5:EM:55:LEU:HD13	5:EO:21:ILE:HG22	1.81	0.62
5:FN:112:TYR:O	5:FN:116:LEU:HB2	2.00	0.62
3:AO:36:LEU:CD2	1:IS:139:ARG:NE	2.61	0.62
1:CQ:103:LYS:HE2	1:BQ:304:GLN:HB3	1.80	0.62
1:BQ:98:ASN:HD22	1:BQ:99:MET:N	1.97	0.62
1:KQ:136:ASN:ND2	1:aR:99:MET:SD	2.72	0.62
1:SQ:98:ASN:HD22	1:SQ:99:MET:H	1.45	0.62
1:bQ:206:LEU:HD12	1:dQ:244:ASP:OD2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aR:98:ASN:HD22	1:aR:99:MET:N	1.97	0.62
1:gR:208:LEU:HD12	1:gR:391:ILE:CD1	2.24	0.62
1:IS:60:GLU:HG2	1:JS:86:SER:C	2.25	0.62
1:A1:119:LYS:HD2	1:iG:36:GLY:HA3	1.82	0.62
1:B1:36:GLY:HA3	1:Y4:119:LYS:HD2	1.82	0.62
1:B1:99:MET:SD	1:iG:136:ASN:ND2	2.72	0.62
1:Q1:314:GLY:O	1:Q8:31:LYS:CG	2.48	0.62
1:R1:174:MET:SD	1:CJ:33:TRP:CB	2.87	0.62
1:S1:98:ASN:HD22	1:S1:99:MET:N	1.97	0.62
1:T1:367:PRO:O	1:CJ:377:HIS:HE1	1.82	0.62
1:Y1:206:LEU:HD21	2:e1:37:SER:HB2	1.81	0.62
1:Z1:36:GLY:HA3	1:Z7:119:LYS:HD2	1.82	0.62
1:f1:299:ALA:CB	1:AQ:226:ILE:HG22	2.29	0.62
1:h1:98:ASN:HD22	1:h1:99:MET:N	1.97	0.62
1:h1:136:ASN:ND2	1:B4:99:MET:SD	2.72	0.62
4:B2:14:SER:OG	5:F9:37:ASP:HA	2.00	0.62
1:I3:208:LEU:HD11	1:I3:391:ILE:HD13	1.46	0.62
1:I3:244:ASP:HB2	1:R8:207:ASN:HD21	1.64	0.62
1:S3:36:GLY:HA3	1:bE:119:LYS:HD2	1.82	0.62
1:C4:377:HIS:HE1	1:aE:367:PRO:O	1.82	0.62
1:Q4:377:HIS:HE1	1:IQ:367:PRO:O	1.82	0.62
1:X4:28:ASP:O	1:bE:98:ASN:HB3	1.99	0.62
1:X4:31:LYS:CG	1:CR:314:GLY:O	2.48	0.62
1:X4:367:PRO:O	1:CR:377:HIS:HE1	1.82	0.62
1:f4:206:LEU:HD12	1:h4:244:ASP:OD2	1.99	0.62
1:A6:119:LYS:HD2	1:dQ:36:GLY:HA3	1.82	0.62
1:B6:36:GLY:HA3	1:ZG:119:LYS:HD2	1.82	0.62
1:B6:99:MET:SD	1:dQ:136:ASN:ND2	2.72	0.62
1:K6:136:ASN:ND2	1:iG:99:MET:SD	2.72	0.62
1:Q6:29:TYR:O	1:LJ:312:PRO:CD	2.47	0.62
1:g6:206:LEU:HD12	1:i6:244:ASP:OD2	1.99	0.62
1:j6:153:LEU:HD21	2:k6:4:GLY:HA3	1.81	0.62
1:B7:47:GLU:HG2	1:DP:22:LEU:CB	2.30	0.62
1:Q7:31:LYS:CG	1:YL:314:GLY:O	2.48	0.62
1:Q7:314:GLY:O	1:QR:31:LYS:CG	2.48	0.62
1:a7:98:ASN:HD22	1:a7:99:MET:N	1.97	0.62
1:I8:368:GLU:HG2	1:IR:375:TRP:CZ2	2.33	0.62
1:S8:47:GLU:CB	1:IG:20:SER:HB2	2.20	0.62
1:Y8:377:HIS:HE1	1:bQ:367:PRO:O	1.82	0.62
1:g8:45:MET:N	1:BS:14:VAL:O	2.33	0.62
1:i8:99:MET:SD	1:KL:136:ASN:ND2	2.72	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:33:ASN:ND2	1:AP:55:PHE:H	1.95	0.62
5:FB:28:TYR:O	3:AF:9:ASN:HB3	1.99	0.62
3:AC:104:GLN:N	1:KP:359:MET:CE	2.62	0.62
1:AD:58:ILE:H	3:AF:154:ILE:HG22	1.62	0.62
1:DD:116:MET:SD	1:KS:54:LEU:HD13	2.40	0.62
1:LD:174:MET:HA	1:YG:33:TRP:CD2	2.34	0.62
1:DE:109:LEU:O	1:LP:105:GLU:HB2	1.99	0.62
1:DE:153:LEU:HD21	2:EE:4:GLY:HA3	1.81	0.62
1:NE:153:LEU:HD21	2:OE:4:GLY:HA3	1.81	0.62
1:SE:62:LEU:CD1	2:PQ:52:SER:O	2.46	0.62
5:EF:55:LEU:HD13	5:EM:21:ILE:HG22	1.80	0.62
1:AG:259:PHE:CD1	1:BG:259:PHE:CE2	2.87	0.62
1:QG:28:ASP:O	1:AQ:98:ASN:HB3	1.99	0.62
2:FJ:2:TYR:CE2	1:LP:153:LEU:HD13	2.34	0.62
2:FJ:10:MET:CB	1:LP:372:VAL:CB	2.76	0.62
2:HK:40:SER:N	1:LK:263:GLY:O	2.31	0.62
1:IL:367:PRO:O	1:IQ:377:HIS:HE1	1.82	0.62
1:QL:206:LEU:HD12	1:SL:244:ASP:OD2	1.99	0.62
4:BM:148:SER:N	4:BO:191:LYS:O	2.31	0.62
1:QQ:206:LEU:HD12	1:SQ:244:ASP:OD2	1.99	0.62
2:ZQ:45:ILE:HG13	2:ZQ:46:HIS:CA	2.29	0.62
1:dQ:99:MET:SD	1:iR:136:ASN:ND2	2.72	0.62
1:LR:153:LEU:HD21	2:MR:4:GLY:HA3	1.81	0.62
2:UR:45:ILE:HG13	2:UR:46:HIS:CA	2.29	0.62
1:YR:206:LEU:HD12	1:aR:244:ASP:OD2	1.99	0.62
1:hR:259:PHE:CD1	1:iR:259:PHE:CE2	2.87	0.62
2:LS:43:VAL:HG22	2:LS:44:GLN:HG2	1.82	0.62
1:C1:103:LYS:HE2	1:B1:304:GLN:HB3	1.81	0.62
1:A1:206:LEU:HD21	2:H1:37:SER:HB2	1.81	0.62
1:D1:153:LEU:HD21	2:E1:4:GLY:HA3	1.81	0.62
1:S1:22:LEU:CD2	1:Q8:47:GLU:CD	2.72	0.62
1:S1:108:MET:HE3	1:CJ:366:ASN:HA	1.82	0.62
1:X1:244:ASP:HB2	1:J6:207:ASN:HD21	1.64	0.62
1:Y1:259:PHE:CD1	1:Z1:259:PHE:CE2	2.87	0.62
1:a1:153:LEU:HD21	2:b1:4:GLY:HA3	1.81	0.62
1:f1:368:GLU:CG	1:C3:375:TRP:CZ2	2.73	0.62
3:A2:106:ARG:CB	2:MD:13:THR:CB	2.78	0.62
5:F2:37:ASP:HA	4:BB:14:SER:OG	2.00	0.62
1:C3:244:ASP:HB2	1:h7:207:ASN:HD21	1.64	0.62
2:E3:45:ILE:HG13	2:E3:46:HIS:CA	2.29	0.62
1:I3:31:LYS:CG	1:QL:314:GLY:O	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:366:ASN:HA	1:RR:108:MET:SD	2.40	0.62
1:J3:207:ASN:HD21	1:Q8:244:ASP:HB2	1.64	0.62
1:K3:47:GLU:CB	1:I4:20:SER:HB2	2.20	0.62
1:L4:5:SER:HB2	1:h7:5:SER:HB2	1.80	0.62
1:f4:71:ARG:HH22	1:ZG:210:ASN:HD21	1.43	0.62
1:f4:371:GLU:OE1	1:ZG:111:ARG:CD	2.44	0.62
1:g4:222:SER:N	1:CD:38:LYS:HD2	2.06	0.62
1:i4:367:PRO:O	1:CD:377:HIS:HE1	1.82	0.62
5:F5:37:ASP:HA	4:BN:14:SER:OG	2.00	0.62
1:C6:367:PRO:O	1:gG:377:HIS:HE1	1.82	0.62
1:I6:206:LEU:HD12	1:K6:244:ASP:OD2	1.99	0.62
1:I6:208:LEU:HD12	1:I6:391:ILE:CD1	2.24	0.62
1:I6:366:ASN:HA	1:JL:108:MET:SD	2.40	0.62
1:J6:119:LYS:HD2	1:K8:36:GLY:HA3	1.82	0.62
1:R6:108:MET:SD	1:Q8:366:ASN:HA	2.40	0.62
1:a6:99:MET:SD	1:a7:136:ASN:ND2	2.73	0.62
2:c6:45:ILE:HG13	2:c6:46:HIS:CA	2.29	0.62
1:h6:20:SER:HG	1:h6:21:ALA:N	1.98	0.62
2:k6:45:ILE:HG13	2:k6:46:HIS:CA	2.29	0.62
1:B7:153:LEU:HD21	2:EP:4:GLY:HA3	1.81	0.62
1:D7:153:LEU:HD21	2:E7:4:GLY:HA3	1.81	0.62
1:Q7:366:ASN:HA	1:AG:108:MET:SD	2.40	0.62
1:R7:119:LYS:HD2	1:ME:36:GLY:HA3	1.82	0.62
1:R7:206:LEU:HD21	2:X7:37:SER:HB2	1.81	0.62
1:b7:153:LEU:HD21	2:c7:4:GLY:HA3	1.81	0.62
2:f7:52:SER:O	1:IR:62:LEU:CD1	2.46	0.62
1:I8:31:LYS:CG	1:IR:314:GLY:O	2.48	0.62
1:Q8:377:HIS:HE1	1:IG:367:PRO:O	1.82	0.62
1:Y8:103:LYS:HE2	1:a8:304:GLN:HB3	1.81	0.62
1:i8:153:LEU:HD21	2:ED:4:GLY:HA3	1.81	0.62
4:BB:144:GLN:HE21	4:BF:195:LYS:H	1.45	0.62
5:FB:43:LYS:HD2	4:BM:9:TYR:CD2	2.35	0.62
5:FB:112:TYR:O	5:FB:116:LEU:HB2	1.99	0.62
5:OB:371:PRO:CB	5:CF:275:ASN:ND2	2.56	0.62
4:BC:14:SER:OG	5:FH:37:ASP:HA	2.00	0.62
5:CC:266:THR:N	5:NH:230:SER:C	2.57	0.62
1:CD:55:PHE:CB	1:YG:58:ILE:HD12	2.29	0.62
2:FD:2:TYR:CD1	2:MS:55:GLY:O	2.52	0.62
1:KD:183:LEU:H	1:KD:220:ARG:HH12	1.48	0.62
1:FE:325:LYS:HB2	1:FE:325:LYS:HZ2	1.64	0.62
1:LE:206:LEU:HD21	2:RE:37:SER:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TE:5:SER:HB2	1:LG:5:SER:HB2	1.80	0.62
1:aE:314:GLY:O	1:CG:31:LYS:CG	2.48	0.62
1:CG:299:ALA:CB	1:ZL:226:ILE:HG22	2.29	0.62
5:EH:10:TYR:OH	5:EN:66:TYR:N	2.31	0.62
3:AI:9:ASN:HB3	5:FO:28:TYR:O	1.99	0.62
1:KJ:372:VAL:H	2:MP:11:MET:HE1	1.62	0.62
1:IL:208:LEU:HD12	1:IL:391:ILE:CD1	2.24	0.62
1:JL:207:ASN:HD21	1:YR:244:ASP:HB2	1.64	0.62
1:YL:206:LEU:HD12	1:aL:244:ASP:OD2	1.99	0.62
1:AP:60:GLU:HG2	1:KP:86:SER:CA	2.29	0.62
1:BP:244:ASP:OD2	1:CP:207:ASN:ND2	2.33	0.62
1:CQ:222:SER:OG	1:gR:53:TYR:HD1	1.77	0.62
1:AQ:206:LEU:HD21	2:HQ:37:SER:HB2	1.81	0.62
1:RQ:108:MET:SD	1:QR:366:ASN:HA	2.40	0.62
1:AS:244:ASP:OD2	1:BS:207:ASN:ND2	2.33	0.62
2:ES:19:ARG:NH1	2:ES:20:LEU:O	2.33	0.62
1:C1:314:GLY:O	1:Y8:31:LYS:CG	2.48	0.62
1:C1:366:ASN:HA	1:J7:108:MET:SD	2.40	0.62
1:I1:20:SER:HB2	1:UE:47:GLU:CB	2.20	0.62
1:Q1:206:LEU:HD12	1:S1:244:ASP:OD2	1.99	0.62
1:Y1:108:MET:SD	1:CL:366:ASN:HA	2.40	0.62
1:f1:367:PRO:O	1:C3:377:HIS:HE1	1.82	0.62
1:g1:108:MET:SD	1:gR:366:ASN:HA	2.40	0.62
1:g1:119:LYS:HD2	1:K7:36:GLY:HA3	1.82	0.62
5:C2:275:ASN:ND2	5:O9:371:PRO:CB	2.56	0.62
1:C3:31:LYS:CG	1:QG:314:GLY:O	2.48	0.62
1:C3:367:PRO:O	1:QG:377:HIS:HE1	1.82	0.62
1:I3:63:LEU:CD1	1:R8:89:TYR:CE2	2.76	0.62
1:Y3:109:LEU:O	1:LK:105:GLU:HB2	1.99	0.62
1:b3:109:LEU:O	1:LD:105:GLU:HB2	1.99	0.62
1:C4:31:LYS:CG	1:CG:314:GLY:O	2.48	0.62
1:I4:377:HIS:HE1	1:QL:367:PRO:O	1.82	0.62
1:J4:108:MET:SD	1:AE:366:ASN:HA	2.40	0.62
1:K4:136:ASN:ND2	1:SR:99:MET:SD	2.72	0.62
1:f4:31:LYS:CG	1:C6:314:GLY:O	2.48	0.62
1:h4:36:GLY:HA3	1:AL:119:LYS:HD2	1.82	0.62
1:C6:103:LYS:HE2	1:B6:304:GLN:HB3	1.81	0.62
1:D6:153:LEU:HD21	2:E6:4:GLY:HA3	1.81	0.62
1:J6:259:PHE:CD1	1:K6:259:PHE:CE2	2.87	0.62
1:K6:36:GLY:HA3	1:hG:119:LYS:HD2	1.82	0.62
1:Q6:367:PRO:HB2	1:LJ:375:TRP:CE3	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S6:99:MET:SD	1:KG:136:ASN:ND2	2.72	0.62
1:Y6:366:ASN:HA	1:JG:108:MET:SD	2.40	0.62
1:Z6:20:SER:HG	1:Z6:21:ALA:N	1.98	0.62
1:a6:22:LEU:CD2	1:SE:47:GLU:CD	2.72	0.62
1:a6:36:GLY:HA3	1:JQ:119:LYS:HD2	1.82	0.62
1:h6:206:LEU:HD21	2:n6:37:SER:HB2	1.81	0.62
1:A7:108:MET:SD	1:I7:366:ASN:HA	2.40	0.62
1:A7:259:PHE:CD1	1:B7:259:PHE:CE2	2.87	0.62
1:B7:99:MET:SD	1:BQ:136:ASN:ND2	2.72	0.62
1:I7:206:LEU:HD12	1:K7:244:ASP:OD2	1.99	0.62
1:Y7:314:GLY:O	1:KE:31:LYS:CG	2.48	0.62
1:i7:47:GLU:CB	1:C8:20:SER:HB2	2.20	0.62
1:I8:367:PRO:O	1:IR:377:HIS:HE1	1.82	0.62
1:Q8:375:TRP:CZ2	1:IG:368:GLU:CG	2.73	0.62
1:g8:111:ARG:HG3	1:CD:105:GLU:HG2	1.82	0.62
5:E9:36:ALA:C	3:AB:194:ASN:CG	2.66	0.62
1:BD:289:GLN:OE1	1:BD:326:GLU:OE2	2.17	0.62
1:LD:375:TRP:CE3	1:YG:367:PRO:HB2	2.34	0.62
1:KE:206:LEU:HD12	1:ME:244:ASP:OD2	1.99	0.62
1:LE:20:SER:HG	1:LE:21:ALA:N	1.98	0.62
1:UE:36:GLY:HA3	1:JG:119:LYS:HD2	1.82	0.62
1:aE:366:ASN:HA	1:RG:108:MET:SD	2.40	0.62
5:FF:112:TYR:O	5:FF:116:LEU:HB2	2.00	0.62
5:OF:371:PRO:CB	5:CM:275:ASN:ND2	2.56	0.62
1:AG:226:ILE:HG22	1:YL:299:ALA:CB	2.29	0.62
1:IG:103:LYS:HE2	1:KG:304:GLN:HB3	1.81	0.62
1:YG:111:ARG:NH1	1:CK:105:GLU:CD	2.58	0.62
1:BJ:209:GLN:HE22	1:BJ:235:LEU:HB2	1.64	0.62
1:KJ:33:TRP:CE3	1:AP:170:GLU:CD	2.67	0.62
1:LJ:261:ILE:HD13	1:LJ:265:ASP:OD1	2.00	0.62
2:MK:11:MET:HE1	1:KP:372:VAL:H	1.62	0.62
2:MK:43:VAL:HG22	2:MK:44:GLN:HG2	1.81	0.62
1:BL:36:GLY:HA3	1:JL:119:LYS:HD2	1.82	0.62
1:IL:368:GLU:CG	1:IQ:375:TRP:CZ2	2.73	0.62
1:KL:98:ASN:HD22	1:KL:99:MET:N	1.97	0.62
1:SL:98:ASN:HD22	1:SL:99:MET:N	1.97	0.62
1:TL:153:LEU:HD21	2:UL:4:GLY:HA3	1.81	0.62
1:YL:31:LYS:CG	1:QR:314:GLY:O	2.48	0.62
3:AN:202:ASN:ND2	5:DO:38:TYR:HD1	1.97	0.62
3:AO:81:LEU:HD11	2:LS:55:GLY:CA	2.15	0.62
1:CQ:206:LEU:HD12	1:BQ:244:ASP:OD2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cQ:119:LYS:HD2	1:iR:36:GLY:HA3	1.82	0.62
1:AR:206:LEU:HD21	2:HR:37:SER:HB2	1.81	0.62
1:RR:64:ILE:HG13	2:VR:53:PHE:HD2	1.58	0.62
1:ZR:206:LEU:HD21	2:fR:37:SER:HB2	1.81	0.62
1:C1:208:LEU:HD12	1:C1:391:ILE:CD1	2.24	0.62
1:C1:367:PRO:O	1:bQ:377:HIS:HE1	1.82	0.62
1:A1:108:MET:SD	1:f4:366:ASN:HA	2.40	0.62
1:I1:314:GLY:O	1:Y6:31:LYS:CG	2.48	0.62
1:Z1:99:MET:SD	1:aR:136:ASN:ND2	2.72	0.62
1:f1:366:ASN:HA	1:h7:108:MET:SD	2.40	0.62
1:f1:371:GLU:OE1	1:AQ:111:ARG:CD	2.44	0.62
1:g1:207:ASN:HD21	1:CQ:244:ASP:HB2	1.64	0.62
3:A2:7:GLY:N	5:DA:24:THR:CA	2.47	0.62
1:A3:119:LYS:HD2	1:CE:36:GLY:HA3	1.82	0.62
1:I3:47:GLU:CD	1:SL:22:LEU:CD2	2.72	0.62
1:I3:377:HIS:HE1	1:I4:367:PRO:O	1.82	0.62
1:S3:22:LEU:CD2	1:CR:47:GLU:CD	2.72	0.62
1:S3:99:MET:SD	1:KR:136:ASN:ND2	2.73	0.62
1:b3:179:SER:HG	1:b3:341:TYR:HH	1.48	0.62
1:B4:36:GLY:HA3	1:AR:119:LYS:HD2	1.82	0.62
1:I4:103:LYS:HE2	1:K4:304:GLN:HB3	1.81	0.62
1:J4:119:LYS:HD2	1:i7:36:GLY:HA3	1.82	0.62
1:Q4:314:GLY:O	1:IQ:31:LYS:CG	2.48	0.62
1:R4:82:ILE:HG13	1:BS:142:PHE:C	2.25	0.62
1:T4:27:HIS:N	1:KS:100:ASP:CG	2.46	0.62
1:X4:366:ASN:HA	1:bE:108:MET:SD	2.40	0.62
1:f4:103:LYS:HE2	1:h4:304:GLN:HB3	1.81	0.62
1:C6:366:ASN:HA	1:AL:108:MET:SD	2.40	0.62
1:A6:108:MET:SD	1:Y8:366:ASN:HA	2.40	0.62
1:A6:206:LEU:HD21	2:H6:37:SER:HB2	1.81	0.62
1:B6:136:ASN:ND2	1:aG:99:MET:SD	2.73	0.62
1:a6:49:PHE:CB	1:SE:137:ASP:OD2	2.39	0.62
1:b6:325:LYS:HB2	1:b6:325:LYS:HZ2	1.64	0.62
1:C7:33:TRP:CD2	1:LK:174:MET:HA	2.34	0.62
1:C7:244:ASP:HB2	1:hR:207:ASN:HD21	1.64	0.62
1:J7:119:LYS:HD2	1:a8:36:GLY:HA3	1.82	0.62
1:S7:136:ASN:ND2	1:SL:99:MET:SD	2.72	0.62
1:g7:20:SER:HB2	1:CE:47:GLU:CB	2.20	0.62
1:C8:314:GLY:O	1:AE:31:LYS:CG	2.48	0.62
1:A8:206:LEU:HD21	2:H8:37:SER:HB2	1.81	0.62
1:b8:153:LEU:HD21	2:c8:4:GLY:HA3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E9:64:TRP:CD1	4:BB:30:LEU:H	2.12	0.62
3:AA:154:ILE:O	3:AA:154:ILE:HG22	1.99	0.62
5:EC:21:ILE:HG22	5:EH:55:LEU:HD13	1.80	0.62
1:AD:118:THR:CG2	1:KK:53:TYR:O	2.45	0.62
1:CD:143:GLN:NE2	1:YG:57:LYS:HG3	2.09	0.62
2:OE:45:ILE:HG13	2:OE:46:HIS:CA	2.29	0.62
1:TE:108:MET:SD	1:IL:366:ASN:HA	2.40	0.62
1:TE:207:ASN:HD21	1:IQ:244:ASP:HB2	1.64	0.62
5:EF:57:GLU:CG	4:BO:33:TYR:HE1	2.09	0.62
1:iG:98:ASN:HD22	1:iG:99:MET:N	1.97	0.62
3:AH:151:ASN:HB3	1:AP:135:ASN:OD1	1.99	0.62
1:LJ:36:GLY:CA	1:CS:121:TYR:HD1	1.96	0.62
1:LJ:105:GLU:HB2	1:gL:109:LEU:O	1.99	0.62
1:CK:142:PHE:C	1:hR:82:ILE:HG13	2.25	0.62
1:LK:36:GLY:CA	1:DP:121:TYR:HD1	1.96	0.62
1:LK:57:LYS:HE2	1:KP:61:THR:HG23	1.69	0.62
1:DL:153:LEU:HD21	2:EL:4:GLY:HA3	1.81	0.62
1:RL:108:MET:SD	1:YL:366:ASN:HA	2.40	0.62
3:AO:154:ILE:HG22	3:AO:154:ILE:O	1.99	0.62
1:DP:30:SER:CB	1:hR:98:ASN:ND2	2.63	0.62
2:MQ:45:ILE:HG13	2:MQ:46:HIS:CA	2.29	0.62
1:SQ:136:ASN:ND2	1:KR:99:MET:SD	2.72	0.62
1:gR:206:LEU:HD12	1:iR:244:ASP:OD2	1.99	0.62
2:GS:40:SER:N	1:KS:263:GLY:O	2.31	0.62
1:A1:110:LYS:CE	1:AL:105:GLU:OE1	2.48	0.61
1:J1:206:LEU:HD21	2:P1:37:SER:HB2	1.81	0.61
1:J1:210:ASN:HD21	1:IG:71:ARG:HH22	1.43	0.61
1:Q1:54:LEU:HD11	1:IG:116:MET:HE1	0.78	0.61
1:Q1:367:PRO:O	1:IG:377:HIS:HE1	1.82	0.61
1:T1:367:PRO:HD2	1:LJ:108:MET:HE1	1.81	0.61
1:Y1:105:GLU:OE1	1:hG:110:LYS:CE	2.48	0.61
1:Z1:22:LEU:CD2	1:IR:47:GLU:CD	2.72	0.61
1:f1:31:LYS:CG	1:C3:314:GLY:O	2.48	0.61
5:E2:21:ILE:HG22	5:E9:55:LEU:HD13	1.80	0.61
1:Q3:31:LYS:CG	1:X4:314:GLY:O	2.48	0.61
1:R3:105:GLU:OE1	1:J6:110:LYS:CE	2.48	0.61
1:S3:136:ASN:ND2	1:cE:99:MET:SD	2.72	0.61
1:Y3:116:MET:HE1	1:BK:54:LEU:HD11	1.82	0.61
1:C4:368:GLU:HG2	1:CG:375:TRP:CZ2	2.33	0.61
1:A4:105:GLU:OE1	1:h7:110:LYS:CE	2.48	0.61
1:J4:98:ASN:HB3	1:AE:28:ASP:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T4:51:ASN:HD22	1:BS:116:MET:HE3	1.57	0.61
1:Z4:36:GLY:HA3	1:J8:119:LYS:HD2	1.82	0.61
1:g4:174:MET:SD	1:CD:33:TRP:CB	2.87	0.61
1:g4:259:PHE:CD1	1:h4:259:PHE:CE2	2.87	0.61
1:g4:383:ALA:HB1	1:CD:34:THR:O	1.99	0.61
1:i4:33:TRP:CG	1:CD:174:MET:CB	2.82	0.61
4:B5:14:SER:OG	5:FI:37:ASP:HA	2.00	0.61
1:J6:105:GLU:OE1	1:Z7:110:LYS:CE	2.48	0.61
1:L6:153:LEU:HD21	2:M6:4:GLY:HA3	1.81	0.61
1:Q6:208:LEU:CD1	1:Q6:391:ILE:HD12	1.95	0.61
1:S6:47:GLU:HG2	1:CS:22:LEU:CB	2.30	0.61
1:S6:368:GLU:OE1	1:BS:107:LEU:CD2	2.48	0.61
1:Y6:28:ASP:O	1:JG:98:ASN:HB3	1.99	0.61
1:g6:45:MET:N	1:CP:14:VAL:O	2.33	0.61
1:C7:45:MET:N	1:CK:14:VAL:O	2.33	0.61
1:A7:105:GLU:OE1	1:cQ:110:LYS:CE	2.48	0.61
1:I7:314:GLY:O	1:CQ:31:LYS:CG	2.48	0.61
1:L7:153:LEU:HD21	2:M7:4:GLY:HA3	1.81	0.61
1:Q7:206:LEU:HD12	1:S7:244:ASP:OD2	1.99	0.61
1:Y7:31:LYS:CG	1:QQ:314:GLY:O	2.48	0.61
1:h7:119:LYS:HD2	1:SG:36:GLY:HA3	1.82	0.61
1:I8:47:GLU:CD	1:KR:22:LEU:CD2	2.72	0.61
1:Z8:259:PHE:CD1	1:a8:259:PHE:CE2	2.87	0.61
1:h8:206:LEU:HD21	2:n8:37:SER:HB2	1.81	0.61
4:B9:193:VAL:HG12	4:BA:144:GLN:NE2	2.12	0.61
3:AA:114:PHE:CE1	2:MK:8:ARG:HB3	2.33	0.61
5:EA:140:ASP:OD2	5:CA:139:LYS:CE	2.48	0.61
3:AC:209:MET:CA	4:BN:250:ILE:HD12	2.26	0.61
1:AD:54:LEU:CA	3:AM:29:ARG:HH12	2.10	0.61
1:AD:170:GLU:CD	1:KK:33:TRP:CE3	2.67	0.61
1:DD:109:LEU:HD12	1:JS:105:GLU:O	1.90	0.61
1:LD:57:LYS:HE2	1:KK:61:THR:HG23	1.69	0.61
1:LD:261:ILE:HD13	1:LD:265:ASP:OD1	2.00	0.61
1:LD:312:PRO:HD3	1:YG:27:HIS:CG	2.34	0.61
1:BE:123:ASN:HD21	1:CP:21:ALA:HA	1.65	0.61
1:BE:174:MET:SD	1:CP:33:TRP:CB	2.87	0.61
1:BE:316:VAL:CG2	1:CP:31:LYS:CE	2.73	0.61
1:KE:81:PHE:HD2	1:QQ:139:ARG:HD2	1.25	0.61
1:hG:111:ARG:CD	1:CL:371:GLU:OE1	2.44	0.61
4:BI:14:SER:OG	5:FO:37:ASP:HA	2.00	0.61
4:BI:184:ASN:HB2	4:BO:154:GLY:HA3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:60:GLU:HG2	1:KJ:86:SER:C	2.24	0.61
1:KJ:152:ALA:CB	2:MP:15:TYR:CE2	2.80	0.61
1:KJ:183:LEU:H	1:KJ:220:ARG:HH12	1.48	0.61
1:LK:22:LEU:CD1	1:KP:49:PHE:CB	2.62	0.61
1:CL:206:LEU:HD12	1:BL:244:ASP:OD2	1.99	0.61
1:IL:31:LYS:CG	1:IQ:314:GLY:O	2.48	0.61
1:IL:103:LYS:HE2	1:KL:304:GLN:HB3	1.80	0.61
1:DP:153:LEU:CD1	2:mR:5:ASN:H	2.08	0.61
1:YQ:325:LYS:HB2	1:YQ:325:LYS:HZ2	1.65	0.61
1:J1:110:LYS:CE	1:J3:105:GLU:OE1	2.48	0.61
1:X1:367:PRO:O	1:I8:377:HIS:HE1	1.82	0.61
1:Z1:136:ASN:ND2	1:a7:99:MET:SD	2.72	0.61
3:A2:302:TYR:HD2	3:AB:309:SER:HB2	1.65	0.61
4:B2:154:GLY:HA3	4:BB:184:ASN:HB2	1.83	0.61
5:D2:38:TYR:HD1	3:AM:202:ASN:ND2	1.98	0.61
1:C3:137:ASP:OD2	1:SG:49:PHE:CB	2.39	0.61
1:B3:98:ASN:HD22	1:B3:99:MET:H	1.45	0.61
1:I3:367:PRO:O	1:QL:377:HIS:HE1	1.82	0.61
1:A4:206:LEU:HD21	2:H4:37:SER:HB2	1.81	0.61
1:Q4:31:LYS:CG	1:IL:314:GLY:O	2.48	0.61
1:R4:98:ASN:ND2	1:DD:30:SER:CB	2.63	0.61
1:S4:36:GLY:HA3	1:TE:119:LYS:HD2	1.82	0.61
1:S4:108:MET:HE3	1:BS:366:ASN:HA	1.82	0.61
1:Y4:207:ASN:HD21	1:Y8:244:ASP:HB2	1.64	0.61
1:f4:244:ASP:HB2	1:ZG:207:ASN:HD21	1.64	0.61
1:f4:314:GLY:O	1:gG:31:LYS:CG	2.48	0.61
5:F5:43:LYS:HD2	4:BH:9:TYR:CD2	2.35	0.61
1:C6:31:LYS:CG	1:gG:314:GLY:O	2.48	0.61
1:C6:208:LEU:HD12	1:C6:391:ILE:CD1	2.24	0.61
1:A6:110:LYS:CE	1:J7:105:GLU:OE1	2.48	0.61
1:R6:64:ILE:HG13	2:V6:53:PHE:HD2	1.58	0.61
1:S6:98:ASN:HD22	1:S6:99:MET:H	1.45	0.61
1:g6:111:ARG:NH1	1:CJ:105:GLU:CD	2.58	0.61
1:g6:111:ARG:HG3	1:CJ:105:GLU:HG2	1.82	0.61
1:C7:111:ARG:NH1	1:CP:105:GLU:CD	2.58	0.61
1:Q7:47:GLU:CD	1:aL:22:LEU:CD2	2.72	0.61
1:Q7:222:SER:OG	1:QR:53:TYR:HD1	1.77	0.61
1:S7:22:LEU:CD2	1:QR:47:GLU:CD	2.72	0.61
1:h7:105:GLU:OE1	1:AQ:110:LYS:CE	2.48	0.61
1:D8:325:LYS:HB2	1:D8:325:LYS:HZ2	1.62	0.61
1:Q8:103:LYS:HE2	1:S8:304:GLN:HB3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:111:ARG:NH1	1:CD:105:GLU:CD	2.58	0.61
1:h8:105:GLU:OE1	1:TE:110:LYS:CE	2.48	0.61
3:AA:113:TYR:CG	2:MK:7:MET:CG	2.80	0.61
4:BA:9:TYR:CD2	5:FH:43:LYS:HD2	2.35	0.61
5:CA:275:ASN:ND2	5:OC:371:PRO:CB	2.56	0.61
5:EB:55:LEU:HD13	5:EF:21:ILE:HG22	1.81	0.61
1:KD:33:TRP:CE2	1:IS:174:MET:CA	2.83	0.61
1:KD:61:THR:HG22	1:KS:57:LYS:HZ1	1.63	0.61
1:FE:367:PRO:HD2	1:LP:108:MET:HE1	1.81	0.61
1:KE:377:HIS:HE1	1:QQ:367:PRO:O	1.82	0.61
1:TE:105:GLU:OE1	1:ZR:110:LYS:CE	2.48	0.61
1:aE:28:ASP:O	1:RG:98:ASN:HB3	1.99	0.61
1:AG:119:LYS:HD2	1:SR:36:GLY:HA3	1.82	0.61
5:EH:140:ASP:OD2	5:CH:139:LYS:CE	2.48	0.61
5:FI:43:LYS:HD2	4:BN:9:TYR:CD2	2.35	0.61
1:KJ:28:ASP:CB	1:AP:305:SER:HB3	2.30	0.61
1:KJ:80:ASP:HB3	3:AN:64:GLN:CB	2.29	0.61
2:HK:10:MET:HE1	1:jR:365:HIS:CE1	2.32	0.61
1:LK:22:LEU:HD13	1:KP:49:PHE:HB2	1.77	0.61
1:CL:314:GLY:O	1:YR:31:LYS:CG	2.48	0.61
1:KQ:36:GLY:HA3	1:ZR:119:LYS:HD2	1.82	0.61
1:KQ:98:ASN:HD22	1:KQ:99:MET:H	1.45	0.61
1:YQ:153:LEU:HD21	2:ZQ:4:GLY:HA3	1.81	0.61
1:cQ:206:LEU:HD21	2:iQ:37:SER:HB2	1.81	0.61
1:dQ:98:ASN:HD22	1:dQ:99:MET:N	1.97	0.61
1:AS:289:GLN:OE1	1:AS:326:GLU:OE2	2.17	0.61
1:C1:31:LYS:CG	1:bQ:314:GLY:O	2.48	0.61
1:B1:136:ASN:ND2	1:Z4:99:MET:SD	2.73	0.61
1:L1:325:LYS:HB2	1:L1:325:LYS:HZ2	1.62	0.61
1:Q1:244:ASP:HB2	1:R6:207:ASN:HD21	1.64	0.61
1:f1:103:LYS:HE2	1:h1:304:GLN:HB3	1.80	0.61
1:f1:314:GLY:O	1:QG:31:LYS:CG	2.48	0.61
3:A2:309:SER:HB2	3:A9:302:TYR:HD2	1.64	0.61
5:E2:140:ASP:OD2	5:C2:139:LYS:CE	2.48	0.61
1:B3:36:GLY:HA3	1:AQ:119:LYS:HD2	1.82	0.61
1:I3:103:LYS:HE2	1:K3:304:GLN:HB3	1.81	0.61
1:Q3:244:ASP:HB2	1:J8:207:ASN:HD21	1.64	0.61
1:Y3:123:ASN:HD21	1:BK:21:ALA:CB	2.14	0.61
1:C4:314:GLY:O	1:aE:31:LYS:CG	2.48	0.61
1:A4:20:SER:HG	1:A4:21:ALA:N	1.99	0.61
1:I4:71:ARG:HH22	1:A8:210:ASN:HD21	1.43	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:314:GLY:O	1:QL:31:LYS:CG	2.48	0.61
1:J4:105:GLU:OE1	1:h6:110:LYS:CE	2.48	0.61
1:L4:153:LEU:HD21	2:M4:4:GLY:HA3	1.81	0.61
1:f4:367:PRO:O	1:C6:377:HIS:HE1	1.82	0.61
5:O5:468:THR:HG22	5:O5:532:MET:SD	2.41	0.61
1:Z6:119:LYS:HD2	1:a7:36:GLY:HA3	1.82	0.61
1:g6:367:PRO:HB2	1:LP:375:TRP:CE3	2.34	0.61
1:I7:371:GLU:OE1	1:cQ:111:ARG:CD	2.44	0.61
1:g7:206:LEU:HD12	1:i7:244:ASP:OD2	1.99	0.61
1:A8:110:LYS:CE	1:R8:105:GLU:OE1	2.48	0.61
1:D8:153:LEU:HD21	2:E8:4:GLY:HA3	1.81	0.61
1:J8:110:LYS:CE	1:Z8:105:GLU:OE1	2.48	0.61
1:Y8:314:GLY:O	1:bQ:31:LYS:CG	2.48	0.61
1:Z8:110:LYS:CE	1:bE:105:GLU:OE1	2.48	0.61
1:g8:31:LYS:CD	1:KS:314:GLY:HA3	2.29	0.61
4:B9:9:TYR:CD2	5:FC:43:LYS:HD2	2.35	0.61
4:B9:14:SER:OG	5:FA:37:ASP:HA	2.00	0.61
3:AA:193:ILE:CG1	5:EH:37:ASP:OD2	2.37	0.61
5:EA:10:TYR:HH	5:EC:66:TYR:HB2	1.64	0.61
4:BC:187:ILE:O	4:BH:152:SER:N	2.34	0.61
5:DC:25:ARG:HH22	1:DP:103:LYS:N	1.98	0.61
2:FD:10:MET:CB	1:KS:372:VAL:CB	2.76	0.61
1:KD:28:ASP:CB	1:IS:305:SER:HB3	2.30	0.61
2:MD:43:VAL:HG22	2:MD:44:GLN:HG2	1.82	0.61
2:ND:55:GLY:O	2:FK:2:TYR:CD1	2.52	0.61
1:LE:110:LYS:CE	1:JG:105:GLU:OE1	2.48	0.61
1:ME:22:LEU:CD2	1:QQ:47:GLU:CD	2.72	0.61
1:dE:153:LEU:HD21	2:eE:4:GLY:HA3	1.81	0.61
5:EF:36:ALA:C	3:AO:194:ASN:CG	2.66	0.61
1:DG:153:LEU:HD21	2:EG:4:GLY:HA3	1.81	0.61
1:YG:111:ARG:HG3	1:CK:105:GLU:HG2	1.82	0.61
1:aG:44:THR:CB	1:DK:16:LYS:HZ3	2.13	0.61
1:hG:105:GLU:OE1	1:JL:110:LYS:CE	2.48	0.61
3:AH:154:ILE:O	3:AH:154:ILE:HG22	1.99	0.61
1:AJ:60:GLU:CG	1:KJ:87:GLU:H	2.09	0.61
1:BJ:244:ASP:OD2	1:CJ:207:ASN:ND2	2.33	0.61
2:FJ:9:SER:HB3	1:LP:363:PRO:CG	2.23	0.61
2:FJ:19:ARG:NH1	2:FJ:20:LEU:O	2.33	0.61
1:KJ:153:LEU:CG	2:MP:2:TYR:HE2	2.11	0.61
1:BK:137:ASP:CG	1:jR:50:VAL:H	2.03	0.61
1:CK:21:ALA:HA	1:hR:123:ASN:HD21	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:57:LYS:HZ1	1:KP:61:THR:HG22	1.66	0.61
1:IL:47:GLU:CD	1:KQ:22:LEU:CD2	2.72	0.61
1:JL:206:LEU:HD21	2:PL:37:SER:HB2	1.81	0.61
1:aL:98:ASN:HD22	1:aL:99:MET:N	1.97	0.61
1:bL:325:LYS:HB2	1:bL:325:LYS:HZ2	1.65	0.61
3:AN:104:GLN:CD	2:MP:9:SER:HG	2.03	0.61
2:EQ:45:ILE:HG13	2:EQ:46:HIS:CA	2.29	0.61
2:UQ:45:ILE:HG13	2:UQ:46:HIS:CA	2.29	0.61
1:KR:98:ASN:HD22	1:KR:99:MET:H	1.45	0.61
1:SR:98:ASN:HD22	1:SR:99:MET:H	1.45	0.61
1:C1:377:HIS:HE1	1:Y8:367:PRO:O	1.82	0.61
1:Q1:31:LYS:CG	1:IG:314:GLY:O	2.48	0.61
1:Q1:371:GLU:OE1	1:R6:111:ARG:CD	2.44	0.61
1:Q1:377:HIS:HE1	1:Q8:367:PRO:O	1.82	0.61
1:R1:119:LYS:HD3	1:CJ:38:LYS:H	1.65	0.61
1:S1:36:GLY:HA3	1:J3:119:LYS:HD2	1.82	0.61
1:T1:33:TRP:CG	1:CJ:174:MET:CB	2.82	0.61
1:X1:31:LYS:CG	1:I8:314:GLY:O	2.48	0.61
1:X1:47:GLU:CD	1:K8:22:LEU:CD2	2.72	0.61
1:g1:110:LYS:CE	1:cQ:105:GLU:OE1	2.48	0.61
1:J3:108:MET:SD	1:IG:366:ASN:HA	2.40	0.61
1:J3:110:LYS:CE	1:R6:105:GLU:OE1	2.48	0.61
1:R3:110:LYS:CE	1:Z7:105:GLU:OE1	2.48	0.61
1:T3:153:LEU:HD21	2:U3:4:GLY:HA3	1.81	0.61
1:I4:366:ASN:HA	1:R8:108:MET:SD	2.40	0.61
1:R4:119:LYS:HD3	1:BS:38:LYS:H	1.65	0.61
1:X4:244:ASP:HB2	1:Z8:207:ASN:HD21	1.64	0.61
1:h4:47:GLU:CG	1:gG:22:LEU:HB2	2.31	0.61
1:h4:108:MET:HE3	1:CD:366:ASN:HA	1.82	0.61
1:i4:367:PRO:HD2	1:LD:108:MET:HE1	1.81	0.61
1:i4:374:HIS:CE1	2:HD:8:ARG:HH12	2.12	0.61
4:B5:9:TYR:CD2	5:FO:43:LYS:HD2	2.35	0.61
5:D5:38:TYR:HD1	3:AC:202:ASN:ND2	1.98	0.61
1:Z6:64:ILE:HD11	1:a6:88:GLU:OE2	1.98	0.61
1:h6:108:MET:SD	1:g7:366:ASN:HA	2.40	0.61
1:Y7:377:HIS:HE1	1:KE:367:PRO:O	1.82	0.61
1:Z7:20:SER:HG	1:Z7:21:ALA:N	1.98	0.61
1:Z7:207:ASN:HD21	1:IR:244:ASP:HB2	1.64	0.61
1:g7:31:LYS:CG	1:AE:314:GLY:O	2.48	0.61
1:g7:137:ASP:OD2	1:CE:49:PHE:CB	2.39	0.61
1:R8:119:LYS:HD2	1:SL:36:GLY:HA3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z8:206:LEU:HD21	2:f8:37:SER:HB2	1.81	0.61
3:A9:152:SER:H	1:AK:144:THR:HA	0.79	0.61
4:B9:187:ILE:O	4:BA:152:SER:N	2.34	0.61
3:AA:115:ILE:CA	2:MK:7:MET:HE3	2.27	0.61
3:AA:202:ASN:ND2	5:DN:38:TYR:HD1	1.98	0.61
1:BE:82:ILE:HG13	1:CP:142:PHE:C	2.25	0.61
1:KE:28:ASP:O	1:JR:98:ASN:HB3	1.99	0.61
1:KE:314:GLY:O	1:QQ:31:LYS:CG	2.48	0.61
1:KE:366:ASN:HA	1:JR:108:MET:SD	2.40	0.61
1:LE:108:MET:SD	1:SE:366:ASN:HA	2.40	0.61
1:SE:206:LEU:HD12	1:UE:244:ASP:OD2	1.99	0.61
1:cE:136:ASN:ND2	1:aL:99:MET:SD	2.72	0.61
5:FF:37:ASP:HA	4:BM:14:SER:OG	2.00	0.61
1:LG:153:LEU:HD21	2:MG:4:GLY:HA3	1.81	0.61
1:RG:105:GLU:OE1	1:AR:110:LYS:CE	2.48	0.61
1:hG:206:LEU:HD21	2:nG:37:SER:HB2	1.81	0.61
4:BI:9:TYR:CD2	5:FM:43:LYS:HD2	2.35	0.61
5:EI:140:ASP:OD2	5:CI:139:LYS:CE	2.48	0.61
5:NI:468:THR:HG22	5:NI:532:MET:SD	2.41	0.61
1:BJ:367:PRO:CG	1:gL:375:TRP:CZ3	2.84	0.61
1:DJ:222:SER:OG	1:LP:53:TYR:HD1	1.78	0.61
1:AK:315:ALA:CB	1:KP:30:SER:CA	2.79	0.61
1:BK:244:ASP:OD2	1:CK:207:ASN:ND2	2.33	0.61
1:CK:38:LYS:H	1:hR:119:LYS:HD3	1.65	0.61
1:QL:244:ASP:HB2	1:RR:207:ASN:HD21	1.64	0.61
1:AR:20:SER:HG	1:AR:21:ALA:N	1.99	0.61
1:IS:71:ARG:NH2	1:IS:272:SER:O	2.34	0.61
1:A1:207:ASN:HD21	1:C6:244:ASP:HB2	1.64	0.61
1:K1:47:GLU:CG	1:Y6:22:LEU:HB2	2.31	0.61
1:L1:153:LEU:HD21	2:M1:4:GLY:HA3	1.81	0.61
1:T1:325:LYS:HB2	1:T1:325:LYS:HZ2	1.65	0.61
1:X1:314:GLY:O	1:IR:31:LYS:CG	2.48	0.61
1:f1:47:GLU:CD	1:B3:22:LEU:CD2	2.72	0.61
1:g1:206:LEU:HD21	2:m1:37:SER:HB2	1.81	0.61
3:A2:202:ASN:ND2	5:DC:38:TYR:HD1	1.98	0.61
1:A3:110:LYS:CE	1:h6:105:GLU:OE1	2.48	0.61
1:Q3:314:GLY:O	1:CR:31:LYS:CG	2.48	0.61
1:R3:206:LEU:HD21	2:X3:37:SER:HB2	1.81	0.61
1:D4:153:LEU:HD21	2:E4:4:GLY:HA3	1.81	0.61
1:R4:123:ASN:HD21	1:BS:21:ALA:HA	1.65	0.61
1:S4:49:PHE:CB	1:IQ:137:ASP:OD2	2.39	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S4:105:GLU:CB	1:KS:109:LEU:HD21	1.97	0.61
1:Y4:105:GLU:OE1	1:J7:110:LYS:CE	2.48	0.61
1:Y4:108:MET:SD	1:bQ:366:ASN:HA	2.40	0.61
1:g4:207:ASN:HD21	1:YG:244:ASP:HB2	1.64	0.61
3:A5:149:GLN:HG2	1:AJ:149:THR:OG1	2.00	0.61
4:B5:187:ILE:O	4:BI:152:SER:N	2.34	0.61
1:J6:108:MET:SD	1:IR:366:ASN:HA	2.40	0.61
1:Y6:314:GLY:O	1:SE:31:LYS:CG	2.48	0.61
1:i6:47:GLU:HG2	1:DJ:22:LEU:CB	2.30	0.61
1:I7:22:LEU:HB2	1:iR:47:GLU:CG	2.31	0.61
1:R7:105:GLU:OE1	1:JR:110:LYS:CE	2.48	0.61
1:g7:314:GLY:O	1:C8:31:LYS:CG	2.48	0.61
1:I8:54:LEU:HD11	1:IR:116:MET:HE1	0.78	0.61
1:I8:208:LEU:HD12	1:I8:391:ILE:CD1	2.24	0.61
1:J8:108:MET:SD	1:CR:366:ASN:HA	2.40	0.61
1:R8:110:LYS:CE	1:RR:105:GLU:OE1	2.48	0.61
1:a8:47:GLU:CG	1:bQ:22:LEU:HB2	2.31	0.61
5:F9:43:LYS:HD2	4:BB:9:TYR:CD2	2.35	0.61
4:BA:14:SER:OG	5:FC:37:ASP:HA	2.00	0.61
5:EF:66:TYR:HB2	5:EM:10:TYR:HH	1.62	0.61
5:CF:468:THR:HG22	5:CF:532:MET:SD	2.41	0.61
1:ZG:105:GLU:OE1	1:AL:110:LYS:CE	2.48	0.61
5:CH:468:THR:HG22	5:CH:532:MET:SD	2.41	0.61
5:OH:468:THR:HG22	5:OH:532:MET:SD	2.41	0.61
2:FJ:2:TYR:CD1	2:NP:55:GLY:O	2.52	0.61
1:KJ:16:LYS:N	1:LP:45:MET:HE2	2.16	0.61
1:KJ:57:LYS:HD2	1:LP:58:ILE:HD11	1.81	0.61
1:AK:60:GLU:HG2	1:KK:86:SER:C	2.24	0.61
1:AK:222:SER:HB2	1:KP:38:LYS:HA	1.82	0.61
1:LK:261:ILE:HD13	1:LK:265:ASP:OD1	2.00	0.61
1:LK:369:PHE:HB2	1:BP:108:MET:CE	2.29	0.61
1:TL:325:LYS:HB2	1:TL:325:LYS:HZ2	1.65	0.61
5:FM:37:ASP:HA	4:BO:14:SER:OG	2.00	0.61
5:NM:468:THR:HG22	5:NM:532:MET:SD	2.41	0.61
1:CQ:314:GLY:O	1:gR:31:LYS:CG	2.48	0.61
1:YQ:109:LEU:O	1:KS:105:GLU:HB2	1.99	0.61
2:MR:45:ILE:HG13	2:MR:46:HIS:CA	2.29	0.61
2:cR:45:ILE:HG13	2:cR:46:HIS:CA	2.29	0.61
1:hR:20:SER:HG	1:hR:21:ALA:N	1.99	0.61
1:C1:244:ASP:HB2	1:A6:207:ASN:HD21	1.64	0.61
1:B1:20:SER:HA	1:Y8:45:MET:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:47:GLU:CG	1:Y8:22:LEU:HB2	2.31	0.61
1:I1:22:LEU:HB2	1:UE:47:GLU:CG	2.31	0.61
1:I1:31:LYS:CG	1:SE:314:GLY:O	2.48	0.61
1:R1:82:ILE:HG13	1:CJ:142:PHE:C	2.25	0.61
1:R1:223:GLY:HA2	1:CJ:53:TYR:OH	1.98	0.61
1:X1:366:ASN:HA	1:R3:108:MET:SD	2.40	0.61
4:B2:187:ILE:O	4:B9:152:SER:N	2.34	0.61
5:C2:468:THR:HG22	5:C2:532:MET:SD	2.41	0.61
1:C3:22:LEU:HB2	1:SG:47:GLU:CG	2.31	0.61
1:A3:108:MET:SD	1:C8:366:ASN:HA	2.40	0.61
1:Y3:109:LEU:C	1:LK:105:GLU:CG	2.60	0.61
1:Y3:375:TRP:CZ3	1:BK:367:PRO:CG	2.84	0.61
1:b3:153:LEU:HD21	2:c3:4:GLY:HA3	1.81	0.61
1:A4:210:ASN:HD21	1:QG:71:ARG:HH22	1.43	0.61
1:R4:222:SER:CA	1:BS:38:LYS:CE	1.77	0.61
1:S4:47:GLU:CG	1:IQ:22:LEU:HB2	2.31	0.61
1:f4:22:LEU:HB2	1:B6:47:GLU:CG	2.31	0.61
1:f4:45:MET:O	1:B6:20:SER:HA	2.01	0.61
1:g4:206:LEU:HD21	2:l4:37:SER:HB2	1.81	0.61
3:A5:150:TYR:HB3	1:AJ:144:THR:CA	2.05	0.61
4:B5:154:GLY:HA3	4:BN:184:ASN:HB2	1.82	0.61
5:F5:112:TYR:O	5:F5:116:LEU:HB2	1.99	0.61
1:I6:31:LYS:CG	1:YR:314:GLY:O	2.48	0.61
1:K6:47:GLU:CG	1:CL:22:LEU:HB2	2.31	0.61
1:K6:98:ASN:HD22	1:K6:99:MET:N	1.97	0.61
1:Z6:108:MET:SD	1:QQ:366:ASN:HA	2.40	0.61
1:C7:31:LYS:HG2	1:LK:314:GLY:HA2	1.78	0.61
1:C7:208:LEU:CD1	1:C7:391:ILE:HD12	1.95	0.61
1:R7:207:ASN:HD21	1:QQ:244:ASP:HB2	1.64	0.61
1:i7:47:GLU:CG	1:C8:22:LEU:HB2	2.31	0.61
1:B8:47:GLU:CG	1:AE:22:LEU:HB2	2.31	0.61
5:C9:468:THR:HG22	5:C9:532:MET:SD	2.41	0.61
5:CB:468:THR:HG22	5:CB:532:MET:SD	2.41	0.61
4:BC:184:ASN:HB2	4:BH:154:GLY:HA3	1.82	0.61
1:CD:14:VAL:O	1:YG:45:MET:N	2.33	0.61
1:BE:64:ILE:HD11	1:CE:88:GLU:OE2	1.98	0.61
1:FE:144:THR:H	1:CP:82:ILE:HD11	1.62	0.61
1:LE:105:GLU:OE1	1:JQ:110:LYS:CE	2.48	0.61
5:FH:112:TYR:O	5:FH:116:LEU:HB2	2.00	0.61
4:BI:125:GLN:HE22	4:BI:127:PHE:HB2	1.66	0.61
5:NI:185:MET:HE1	5:NI:422:LEU:HD22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:174:MET:CA	1:JS:33:TRP:CE2	2.83	0.61
1:AJ:310:THR:HG22	1:JS:27:HIS:CE1	2.25	0.61
1:BJ:21:ALA:CB	1:gL:123:ASN:HD21	2.14	0.61
1:AK:223:GLY:HA2	1:KP:53:TYR:CE2	2.33	0.61
1:IL:371:GLU:OE1	1:ZR:111:ARG:CD	2.44	0.61
1:YL:47:GLU:CD	1:SR:22:LEU:CD2	2.72	0.61
1:ZL:110:LYS:CE	1:AR:105:GLU:OE1	2.48	0.61
5:FM:112:TYR:O	5:FM:116:LEU:HB2	2.00	0.61
1:DR:153:LEU:HD21	2:ER:4:GLY:HA3	1.81	0.61
1:I1:366:ASN:HA	1:JQ:108:MET:SD	2.40	0.61
1:R1:98:ASN:ND2	1:CS:30:SER:CB	2.63	0.61
1:X1:45:MET:O	1:K8:20:SER:HA	2.01	0.61
1:Z1:20:SER:HA	1:IR:45:MET:O	2.01	0.61
1:h1:20:SER:HA	1:QG:45:MET:O	2.01	0.61
4:B2:9:TYR:CD2	5:FA:43:LYS:HD2	2.35	0.61
1:Q3:71:ARG:HH22	1:J8:210:ASN:HD21	1.43	0.61
1:R3:119:LYS:HD2	1:KR:36:GLY:HA3	1.82	0.61
1:C4:22:LEU:HB2	1:BG:47:GLU:CG	2.31	0.61
1:B4:20:SER:HA	1:aE:45:MET:O	2.01	0.61
1:Q4:47:GLU:CD	1:KL:22:LEU:CD2	2.72	0.61
1:Q4:71:ARG:HH22	1:h8:210:ASN:HD21	1.43	0.61
1:Q4:244:ASP:HB2	1:h8:207:ASN:HD21	1.64	0.61
1:g4:98:ASN:ND2	1:DK:30:SER:CB	2.63	0.61
4:B5:193:VAL:HB	4:BI:146:ALA:HB3	1.83	0.61
5:O5:185:MET:HE1	5:O5:422:LEU:HD22	1.83	0.61
1:Q7:244:ASP:HB2	1:RQ:207:ASN:HD21	1.64	0.61
1:a7:49:PHE:CB	1:KE:137:ASP:OD2	2.39	0.61
1:J8:105:GLU:OE1	1:bE:110:LYS:CE	2.48	0.61
1:j8:153:LEU:HD21	2:k8:4:GLY:HA3	1.81	0.61
4:B9:193:VAL:HB	4:BA:146:ALA:HB3	1.83	0.61
5:FB:37:ASP:HA	4:BF:14:SER:OG	2.00	0.61
5:NC:468:THR:HG22	5:NC:532:MET:SD	2.41	0.61
5:OC:468:THR:HG22	5:OC:532:MET:SD	2.41	0.61
1:AD:310:THR:HG22	1:KK:27:HIS:CE1	2.25	0.61
1:BD:357:LYS:HG2	2:ED:20:LEU:HD12	1.82	0.61
2:HD:40:SER:N	1:LD:263:GLY:O	2.31	0.61
1:LD:372:VAL:HB	2:FK:10:MET:HB2	1.80	0.61
2:ND:15:TYR:OH	1:YG:148:ALA:CB	2.44	0.61
1:CE:108:MET:HE3	1:CP:366:ASN:HA	1.82	0.61
1:cE:20:SER:HA	1:CG:45:MET:O	2.01	0.61
1:ZG:108:MET:SD	1:gG:366:ASN:HA	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aG:16:LYS:O	1:DK:45:MET:HE2	1.87	0.61
1:hG:108:MET:SD	1:YR:366:ASN:HA	2.40	0.61
3:AH:150:TYR:CE1	1:AP:145:LEU:CD1	2.83	0.61
1:AJ:305:SER:HB3	1:JS:28:ASP:CB	2.30	0.61
1:KJ:61:THR:HG22	1:LP:57:LYS:HZ1	1.65	0.61
1:LJ:45:MET:HE2	1:JS:16:LYS:N	2.16	0.61
1:LJ:53:TYR:HD1	1:CS:222:SER:OG	1.79	0.61
1:LJ:148:ALA:O	2:ES:15:TYR:CD2	2.31	0.61
1:CK:53:TYR:OH	1:hR:223:GLY:HA2	1.98	0.61
1:LK:57:LYS:HA	1:KP:58:ILE:HG22	1.82	0.61
1:QL:371:GLU:OE1	1:RR:111:ARG:CD	2.44	0.61
1:LP:261:ILE:HD13	1:LP:265:ASP:OD1	2.00	0.61
1:I1:47:GLU:CD	1:UE:22:LEU:CD2	2.72	0.61
1:K1:20:SER:HA	1:Y6:45:MET:O	2.01	0.61
1:Z1:47:GLU:CG	1:IR:22:LEU:HB2	2.31	0.61
4:B2:32:PHE:HE1	5:FA:51:ARG:CD	2.14	0.61
5:F2:43:LYS:HD2	4:BF:9:TYR:CD2	2.35	0.61
5:O2:185:MET:HE1	5:O2:422:LEU:HD22	1.83	0.61
1:Q3:22:LEU:HB2	1:Z4:47:GLU:CG	2.31	0.61
1:Q3:371:GLU:OE1	1:J8:111:ARG:CD	2.44	0.61
1:S3:47:GLU:CG	1:CR:22:LEU:HB2	2.31	0.61
1:b3:116:MET:HE1	1:BD:54:LEU:HD11	1.82	0.61
1:Q4:45:MET:O	1:KL:20:SER:HA	2.01	0.61
1:T4:134:ASN:O	2:GS:15:TYR:OH	2.17	0.61
3:A5:114:PHE:CE2	2:MJ:21:ASN:ND2	2.69	0.61
1:I6:116:MET:HE1	1:CL:54:LEU:HD11	0.78	0.61
1:I6:314:GLY:O	1:CL:31:LYS:CG	2.48	0.61
1:Z6:105:GLU:OE1	1:R7:110:LYS:CE	2.48	0.61
1:C7:109:LEU:HD23	1:CP:106:GLU:HA	1.81	0.61
1:C7:111:ARG:HG3	1:CP:105:GLU:HG2	1.82	0.61
1:B7:31:LYS:CB	1:BP:314:GLY:O	2.49	0.61
1:I7:31:LYS:CG	1:gR:314:GLY:O	2.48	0.61
1:K7:20:SER:HA	1:CQ:45:MET:O	2.01	0.61
1:R7:108:MET:SD	1:Y7:366:ASN:HA	2.40	0.61
1:a7:20:SER:HA	1:KE:45:MET:O	2.01	0.61
1:i7:22:LEU:CD2	1:C8:47:GLU:CD	2.72	0.61
1:A8:105:GLU:OE1	1:RR:110:LYS:CE	2.48	0.61
4:BA:187:ILE:O	4:BC:152:SER:N	2.34	0.61
5:CA:468:THR:HG22	5:CA:532:MET:SD	2.41	0.61
5:EB:96:LEU:HD13	5:FB:104:ILE:HD13	1.83	0.61
1:AD:60:GLU:HG2	1:KD:86:SER:C	2.24	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:53:TYR:CE2	1:IS:223:GLY:HA2	2.34	0.61
1:BE:98:ASN:ND2	1:DJ:30:SER:CB	2.63	0.61
1:FE:50:VAL:H	1:BP:137:ASP:CG	2.03	0.61
5:OF:468:THR:HG22	5:OF:532:MET:SD	2.41	0.61
1:AG:110:LYS:CE	1:RL:105:GLU:OE1	2.48	0.61
1:jG:153:LEU:HD21	2:kG:4:GLY:HA3	1.81	0.61
3:AH:150:TYR:CZ	1:AP:145:LEU:HB3	2.36	0.61
5:CH:275:ASN:ND2	5:ON:371:PRO:CB	2.56	0.61
5:CI:185:MET:HE1	5:CI:422:LEU:HD22	1.83	0.61
1:KJ:33:TRP:CE2	1:AP:174:MET:CA	2.83	0.61
1:AK:305:SER:HB3	1:KP:28:ASP:CB	2.30	0.61
1:BK:209:GLN:HE22	1:BK:235:LEU:HB2	1.64	0.61
1:BL:20:SER:HA	1:YR:45:MET:O	2.01	0.61
1:IL:45:MET:O	1:KQ:20:SER:HA	2.01	0.61
5:EN:140:ASP:HB3	5:CN:139:LYS:CG	2.25	0.61
1:CQ:366:ASN:HA	1:cQ:108:MET:SD	2.40	0.61
1:RR:20:SER:HG	1:RR:21:ALA:N	1.99	0.61
1:A1:105:GLU:OE1	1:ZG:110:LYS:CE	2.48	0.61
1:B1:22:LEU:CD2	1:Y8:47:GLU:CD	2.72	0.61
1:J1:105:GLU:OE1	1:R6:110:LYS:CE	2.48	0.61
1:J1:108:MET:SD	1:Q1:366:ASN:HA	2.40	0.61
1:J1:210:ASN:ND2	1:IG:71:ARG:NH2	2.29	0.61
1:S1:106:GLU:HA	1:LJ:109:LEU:HD11	1.83	0.61
1:T1:365:HIS:CD2	2:HJ:10:MET:CE	2.70	0.61
1:X1:22:LEU:HB2	1:K8:47:GLU:CG	2.31	0.61
1:f1:45:MET:O	1:B3:20:SER:HA	2.01	0.61
1:h1:22:LEU:CD2	1:QG:47:GLU:CD	2.72	0.61
1:h1:36:GLY:HA3	1:A4:119:LYS:HD2	1.82	0.61
1:C3:366:ASN:HA	1:A4:108:MET:SD	2.40	0.61
1:A3:105:GLU:OE1	1:J4:110:LYS:CE	2.48	0.61
1:R3:210:ASN:HD21	1:I8:71:ARG:HH22	1.43	0.61
1:A4:207:ASN:HD21	1:QG:244:ASP:HB2	1.64	0.61
1:K4:36:GLY:HA3	1:RR:119:LYS:HD2	1.82	0.61
1:Y4:110:LYS:CE	1:A6:105:GLU:OE1	2.48	0.61
1:f4:20:SER:HB2	1:B6:47:GLU:CB	2.20	0.61
1:f4:47:GLU:CD	1:B6:22:LEU:CD2	2.72	0.61
1:h4:106:GLU:HA	1:LD:109:LEU:HD11	1.83	0.61
5:E5:96:LEU:HD13	5:F5:104:ILE:HD13	1.83	0.61
5:C5:468:THR:HG22	5:C5:532:MET:SD	2.41	0.61
1:C6:47:GLU:CD	1:iG:22:LEU:CD2	2.72	0.61
1:R6:119:LYS:HD2	1:KG:36:GLY:HA3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h6:119:LYS:HD2	1:B8:36:GLY:HA3	1.82	0.61
1:C7:139:ARG:NH1	1:LK:81:PHE:HD2	1.52	0.61
1:Q7:22:LEU:HB2	1:aL:47:GLU:CG	2.31	0.61
1:S7:47:GLU:CG	1:QR:22:LEU:HB2	2.31	0.61
1:Y7:45:MET:O	1:SQ:20:SER:HA	2.01	0.61
1:Y7:244:ASP:HB2	1:JR:207:ASN:HD21	1.64	0.61
1:Z7:108:MET:SD	1:I8:366:ASN:HA	2.40	0.61
1:a7:22:LEU:CD2	1:KE:47:GLU:CD	2.72	0.61
1:B8:20:SER:HA	1:AE:45:MET:O	2.01	0.61
2:E8:45:ILE:HG13	2:E8:46:HIS:CA	2.29	0.61
1:h8:108:MET:SD	1:IQ:366:ASN:HA	2.40	0.61
4:B9:184:ASN:HB2	4:BA:154:GLY:HA3	1.83	0.61
4:B9:189:ASN:O	4:BA:150:ASP:N	2.34	0.61
4:BA:125:GLN:HE22	4:BA:127:PHE:HB2	1.66	0.61
5:NA:468:THR:HG22	5:NA:532:MET:SD	2.41	0.61
4:BB:154:GLY:HA3	4:BF:184:ASN:HB2	1.83	0.61
5:OB:468:THR:HG22	5:OB:532:MET:SD	2.41	0.61
5:CC:185:MET:HE1	5:CC:422:LEU:HD22	1.83	0.61
5:CC:275:ASN:ND2	5:OH:371:PRO:CB	2.56	0.61
1:AD:305:SER:HB3	1:KK:28:ASP:CB	2.30	0.61
1:AD:315:ALA:CB	1:KK:30:SER:CA	2.79	0.61
1:BD:244:ASP:OD2	1:CD:207:ASN:ND2	2.33	0.61
2:JE:5:ASN:H	1:DJ:153:LEU:CD1	2.08	0.61
1:ME:20:SER:HA	1:QQ:45:MET:O	2.01	0.61
1:cE:36:GLY:HA3	1:ZL:119:LYS:HD2	1.82	0.61
5:OF:185:MET:HE1	5:OF:422:LEU:HD22	1.83	0.61
1:BG:36:GLY:HA3	1:RG:119:LYS:HD2	1.82	0.61
1:aG:153:LEU:HD21	2:EK:4:GLY:HA3	1.81	0.61
5:DH:35:ARG:NH2	1:AP:137:ASP:OD1	2.33	0.61
3:AI:114:PHE:CE1	2:FS:25:GLU:OE2	2.53	0.61
3:AI:114:PHE:CZ	2:FS:25:GLU:CD	2.79	0.61
4:BI:250:ILE:HD12	3:AN:209:MET:CA	2.26	0.61
5:FI:51:ARG:CD	4:BN:32:PHE:HE1	2.14	0.61
5:OI:468:THR:HG22	5:OI:532:MET:SD	2.41	0.61
1:CJ:169:LYS:NZ	1:CJ:318:THR:O	2.34	0.61
2:HJ:8:ARG:HB3	2:HJ:12:GLY:HA3	1.83	0.61
1:LK:100:ASP:CG	1:jR:27:HIS:N	2.46	0.61
1:LL:153:LEU:HD21	2:ML:4:GLY:HA3	1.81	0.61
1:gL:153:LEU:HD21	2:hL:4:GLY:HA3	1.81	0.61
4:BM:152:SER:N	4:BO:187:ILE:O	2.34	0.61
1:BP:109:LEU:CD1	1:hR:105:GLU:HB2	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CS:34:THR:HG22	1:CS:36:GLY:H	1.66	0.61
2:GS:8:ARG:HB3	2:GS:12:GLY:HA3	1.83	0.61
1:C1:47:GLU:CD	1:dQ:22:LEU:CD2	2.72	0.61
1:K1:36:GLY:HA3	1:LE:119:LYS:HD2	1.82	0.61
1:Q1:45:MET:O	1:KG:20:SER:HA	2.01	0.61
1:i1:153:LEU:HD21	2:j1:4:GLY:HA3	1.81	0.61
4:B2:152:SER:N	4:BB:187:ILE:O	2.34	0.61
5:C2:185:MET:HE1	5:C2:422:LEU:HD22	1.83	0.61
1:I3:314:GLY:O	1:I4:31:LYS:CG	2.48	0.61
1:b3:123:ASN:HD21	1:BD:21:ALA:CB	2.14	0.61
1:K4:20:SER:HA	1:QL:45:MET:O	2.01	0.61
1:Q4:368:GLU:CG	1:IL:375:TRP:CZ2	2.73	0.61
1:S4:22:LEU:CD2	1:IQ:47:GLU:CD	2.72	0.61
1:g4:82:ILE:HG13	1:CD:142:PHE:C	2.25	0.61
1:g4:123:ASN:HD21	1:CD:21:ALA:HA	1.65	0.61
1:h4:100:ASP:HB2	1:CD:25:PHE:O	1.99	0.61
2:l4:2:TYR:HB3	1:DK:150:ASN:CG	2.25	0.61
5:E5:66:TYR:CA	5:EN:10:TYR:CZ	2.80	0.61
5:F5:41:ASN:CG	4:BH:38:GLN:NE2	2.51	0.61
1:Q6:111:ARG:NH1	1:BS:105:GLU:CD	2.58	0.61
1:i6:368:GLU:OE1	1:CJ:107:LEU:CD2	2.48	0.61
1:B7:20:SER:OG	1:DP:47:GLU:CG	2.49	0.61
1:g7:47:GLU:CD	1:CE:22:LEU:CD2	2.72	0.61
1:h8:119:LYS:HD2	1:KL:36:GLY:HA3	1.82	0.61
3:A9:209:MET:CA	4:BC:250:ILE:HD12	2.26	0.61
3:A9:309:SER:HB2	3:AA:302:TYR:HD2	1.65	0.61
5:E9:140:ASP:OD2	5:C9:139:LYS:CE	2.48	0.61
5:EA:96:LEU:HD13	5:FA:104:ILE:HD13	1.83	0.61
5:OB:185:MET:HE1	5:OB:422:LEU:HD22	1.83	0.61
4:BC:189:ASN:O	4:BH:150:ASP:N	2.34	0.61
1:AD:145:LEU:HB2	3:AF:37:GLU:HG3	1.80	0.61
1:KD:153:LEU:CG	2:LS:2:TYR:HE2	2.11	0.61
1:BE:223:GLY:HA2	1:CP:53:TYR:OH	1.98	0.61
2:eE:45:ILE:HG13	2:eE:46:HIS:CA	2.29	0.61
5:CF:185:MET:HE1	5:CF:422:LEU:HD22	1.83	0.61
1:JG:110:LYS:CE	1:JQ:105:GLU:OE1	2.48	0.61
5:EI:10:TYR:HH	5:EO:66:TYR:HB2	1.61	0.61
1:AJ:118:THR:CG2	1:JS:53:TYR:O	2.45	0.61
2:FJ:11:MET:HB3	1:LP:133:LEU:HG	1.78	0.61
1:KJ:98:ASN:HD21	1:JS:30:SER:CB	2.02	0.61
1:KJ:115:ARG:NH2	1:KJ:226:ILE:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:169:LYS:NZ	1:CK:318:THR:O	2.34	0.61
1:YL:45:MET:O	1:SR:20:SER:HA	2.01	0.61
5:CM:468:THR:HG22	5:CM:532:MET:SD	2.41	0.61
5:OM:468:THR:HG22	5:OM:532:MET:SD	2.41	0.61
5:EN:140:ASP:OD2	5:CN:139:LYS:CE	2.48	0.61
5:EO:140:ASP:OD2	5:CO:139:LYS:CE	2.48	0.61
5:CO:468:THR:HG22	5:CO:532:MET:SD	2.41	0.61
5:OO:185:MET:HE1	5:OO:422:LEU:HD22	1.83	0.61
1:QQ:103:LYS:HE2	1:SQ:304:GLN:HB3	1.80	0.61
1:eQ:153:LEU:HD21	2:fQ:4:GLY:HA3	1.81	0.61
1:S1:20:SER:HA	1:Q8:45:MET:O	2.01	0.60
1:X1:208:LEU:CD1	1:X1:391:ILE:HD12	1.95	0.60
1:f1:22:LEU:HB2	1:B3:47:GLU:CG	2.31	0.60
4:B2:38:GLN:NE2	5:FA:41:ASN:CG	2.51	0.60
5:C2:244:ALA:CB	5:O9:351:ASN:O	2.49	0.60
5:O2:468:THR:HG22	5:O2:532:MET:SD	2.41	0.60
1:C3:47:GLU:CD	1:SG:22:LEU:CD2	2.72	0.60
1:Q3:377:HIS:HE1	1:CR:367:PRO:O	1.82	0.60
1:C4:20:SER:HB2	1:BG:47:GLU:CB	2.20	0.60
1:C4:366:ASN:HA	1:ZL:108:MET:SD	2.40	0.60
1:A4:110:LYS:CE	1:AQ:105:GLU:OE1	2.48	0.60
3:A5:114:PHE:CZ	2:MJ:22:LYS:N	2.60	0.60
3:A5:309:SER:HB2	3:AI:302:TYR:HD2	1.64	0.60
4:B5:152:SER:N	4:BN:187:ILE:O	2.34	0.60
5:N5:230:SER:OG	5:CN:248:GLN:O	2.19	0.60
5:O5:351:ASN:O	5:CN:244:ALA:CB	2.50	0.60
1:C7:31:LYS:CD	1:LK:314:GLY:HA3	2.29	0.60
1:I7:71:ARG:HH22	1:cQ:210:ASN:HD21	1.43	0.60
1:S7:47:GLU:CB	1:QR:20:SER:HB2	2.20	0.60
1:T7:153:LEU:HD21	2:U7:4:GLY:HA3	1.81	0.60
1:A8:108:MET:SD	1:QL:366:ASN:HA	2.40	0.60
1:I8:368:GLU:CG	1:IR:375:TRP:CZ2	2.73	0.60
1:h8:110:LYS:CE	1:ZR:105:GLU:OE1	2.48	0.60
5:D9:38:TYR:HD1	3:AF:202:ASN:ND2	1.98	0.60
5:O9:468:THR:HG22	5:O9:532:MET:SD	2.41	0.60
5:DA:38:TYR:HD1	3:AB:202:ASN:ND2	1.98	0.60
5:OA:468:THR:HG22	5:OA:532:MET:SD	2.41	0.60
4:BB:144:GLN:NE2	4:BF:193:VAL:HG12	2.12	0.60
4:BB:152:SER:N	4:BF:187:ILE:O	2.34	0.60
5:EB:64:TRP:CZ2	4:BM:30:LEU:N	2.69	0.60
5:FB:41:ASN:O	5:FB:51:ARG:NH1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:OC:185:MET:HE1	5:OC:422:LEU:HD22	1.83	0.60
1:BD:209:GLN:HE22	1:BD:235:LEU:HB2	1.64	0.60
1:KD:79:GLN:NE2	1:KD:80:ASP:OD1	2.34	0.60
1:KD:80:ASP:CG	3:AF:65:ASN:CB	2.73	0.60
1:KD:106:GLU:HA	1:DK:109:LEU:CD1	1.92	0.60
1:KD:108:MET:HA	1:KK:368:GLU:HB2	1.83	0.60
1:LD:128:LYS:HA	1:LD:376:ILE:O	2.01	0.60
1:LD:363:PRO:CG	2:FK:9:SER:HB3	2.23	0.60
1:DE:116:MET:CE	1:BP:54:LEU:HD11	2.31	0.60
4:BF:125:GLN:HE22	4:BF:127:PHE:HB2	1.66	0.60
5:EF:140:ASP:OD2	5:CF:139:LYS:CE	2.48	0.60
1:aG:31:LYS:CB	1:BK:314:GLY:O	2.49	0.60
1:hG:210:ASN:HD21	1:CL:71:ARG:HH22	1.43	0.60
3:AH:202:ASN:ND2	5:DI:38:TYR:HD1	1.98	0.60
5:NH:185:MET:HE1	5:NH:422:LEU:HD22	1.83	0.60
3:AI:114:PHE:HZ	2:FS:25:GLU:CD	2.09	0.60
5:CI:468:THR:HG22	5:CI:532:MET:SD	2.41	0.60
1:AJ:116:MET:HG3	1:JS:51:ASN:HD22	1.55	0.60
1:DJ:109:LEU:HD12	1:KP:105:GLU:O	1.90	0.60
1:CK:366:ASN:HA	1:iR:108:MET:HE3	1.82	0.60
1:KK:183:LEU:H	1:KK:220:ARG:HH12	1.48	0.60
1:LK:54:LEU:HD13	1:DP:116:MET:SD	2.40	0.60
1:IL:22:LEU:HB2	1:KQ:47:GLU:CG	2.31	0.60
1:aL:36:GLY:HA3	1:RQ:119:LYS:HD2	1.82	0.60
4:BN:125:GLN:HE22	4:BN:127:PHE:HB2	1.66	0.60
5:CN:468:THR:HG22	5:CN:532:MET:SD	2.41	0.60
1:KP:79:GLN:NE2	1:KP:80:ASP:OD1	2.34	0.60
1:YQ:116:MET:CE	1:AS:54:LEU:HD11	2.31	0.60
1:JS:79:GLN:NE2	1:JS:80:ASP:OD1	2.34	0.60
2:M1:45:ILE:HG13	2:M1:46:HIS:CA	2.29	0.60
4:B2:193:VAL:HB	4:B9:146:ALA:HB3	1.83	0.60
1:Q3:366:ASN:HA	1:Z8:108:MET:SD	2.40	0.60
1:R3:111:ARG:CD	1:I8:371:GLU:OE1	2.44	0.60
1:B4:47:GLU:CG	1:aE:22:LEU:HB2	2.31	0.60
1:R4:210:ASN:HD21	1:g8:71:ARG:HH22	1.43	0.60
1:X4:208:LEU:HD12	1:X4:391:ILE:CD1	2.24	0.60
4:B5:32:PHE:HE1	5:FO:51:ARG:CD	2.14	0.60
4:B5:125:GLN:HE22	4:B5:127:PHE:HB2	1.66	0.60
4:B5:250:ILE:HD12	3:AH:209:MET:CA	2.26	0.60
1:Z6:110:LYS:CE	1:JR:105:GLU:OE1	2.48	0.60
1:Y7:54:LEU:HD11	1:QQ:116:MET:HE1	0.78	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:314:GLY:O	1:IG:31:LYS:CG	2.48	0.60
5:E9:96:LEU:HD13	5:F9:104:ILE:HD13	1.83	0.60
5:N9:468:THR:HG22	5:N9:532:MET:SD	2.41	0.60
5:OB:351:ASN:O	5:CF:244:ALA:CB	2.50	0.60
5:EC:140:ASP:OD2	5:CC:139:LYS:CE	2.48	0.60
1:KD:372:VAL:H	2:LS:11:MET:HE1	1.62	0.60
1:LD:22:LEU:CD2	1:KK:47:GLU:CD	2.70	0.60
1:LD:375:TRP:CZ3	1:YG:367:PRO:CD	2.82	0.60
1:DE:375:TRP:CZ3	1:BP:367:PRO:CG	2.84	0.60
5:DF:24:THR:CA	3:AO:7:GLY:N	2.47	0.60
5:FF:43:LYS:HD2	4:BO:9:TYR:CD2	2.35	0.60
5:NF:185:MET:HE1	5:NF:422:LEU:HD22	1.83	0.60
1:AG:105:GLU:OE1	1:RQ:110:LYS:CE	2.48	0.60
1:AG:111:ARG:CD	1:YL:371:GLU:OE1	2.44	0.60
1:AJ:71:ARG:NH2	1:AJ:272:SER:O	2.34	0.60
1:AJ:222:SER:HB2	1:JS:38:LYS:HA	1.82	0.60
1:BJ:357:LYS:HG2	2:EJ:20:LEU:HD12	1.82	0.60
1:DJ:34:THR:HG22	1:DJ:36:GLY:H	1.66	0.60
1:DJ:74:TRP:HZ2	2:GJ:48:LEU:HD22	1.66	0.60
1:KJ:38:LYS:HA	1:AP:222:SER:HB2	1.82	0.60
1:KJ:108:MET:HA	1:JS:368:GLU:HB2	1.83	0.60
1:KJ:368:GLU:HB2	1:KP:108:MET:HA	1.83	0.60
1:LJ:58:ILE:HD11	1:JS:57:LYS:HD2	1.81	0.60
2:MJ:2:TYR:HE2	1:JS:153:LEU:CG	2.11	0.60
1:CK:367:PRO:HG2	1:hR:375:TRP:CD2	2.37	0.60
2:HK:8:ARG:NH1	1:jR:374:HIS:CG	2.66	0.60
1:YL:22:LEU:HB2	1:SR:47:GLU:CG	2.31	0.60
1:bL:153:LEU:HD21	2:cL:4:GLY:HA3	1.81	0.60
5:ON:468:THR:HG22	5:ON:532:MET:SD	2.41	0.60
1:DP:34:THR:HG22	1:DP:36:GLY:H	1.66	0.60
1:LP:128:LYS:HA	1:LP:376:ILE:O	2.01	0.60
1:SQ:36:GLY:HA3	1:JR:119:LYS:HD2	1.82	0.60
1:A1:20:SER:HG	1:A1:21:ALA:N	1.99	0.60
1:B1:47:GLU:CB	1:Y8:20:SER:HB2	2.20	0.60
1:Q1:208:LEU:HD12	1:Q1:391:ILE:CD1	2.24	0.60
1:R1:20:SER:HG	1:R1:21:ALA:N	1.99	0.60
1:T1:374:HIS:NE2	2:HJ:8:ARG:HH12	1.39	0.60
1:f1:137:ASP:OD2	1:B3:49:PHE:CB	2.39	0.60
3:A2:64:GLN:HG2	1:KK:80:ASP:O	2.01	0.60
4:B2:250:ILE:HD12	3:AF:209:MET:CA	2.26	0.60
5:C2:248:GLN:O	5:N9:230:SER:OG	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C3:45:MET:O	1:SG:20:SER:HA	2.01	0.60
1:D3:153:LEU:HD21	2:E3:4:GLY:HA3	1.81	0.60
1:I3:45:MET:O	1:SL:20:SER:HA	2.01	0.60
2:Z3:45:ILE:HG13	2:Z3:46:HIS:CB	2.32	0.60
1:R4:82:ILE:HA	1:BS:139:ARG:O	2.01	0.60
1:S4:20:SER:HA	1:IQ:45:MET:O	2.01	0.60
4:B5:30:LEU:N	5:EO:64:TRP:CZ2	2.69	0.60
2:c6:45:ILE:HG13	2:c6:46:HIS:CB	2.32	0.60
1:g6:302:ASP:HB2	1:DJ:29:TYR:OH	2.02	0.60
1:B8:22:LEU:CD2	1:AE:47:GLU:CD	2.72	0.60
1:I8:22:LEU:HB2	1:KR:47:GLU:CG	2.31	0.60
1:I8:45:MET:O	1:KR:20:SER:HA	2.01	0.60
2:M8:45:ILE:HG13	2:M8:46:HIS:CB	2.32	0.60
1:g8:367:PRO:HB2	1:KS:375:TRP:CE3	2.34	0.60
1:i8:20:SER:OG	1:DD:47:GLU:CG	2.49	0.60
5:CC:244:ALA:CB	5:OH:351:ASN:O	2.49	0.60
1:DD:34:THR:HG22	1:DD:36:GLY:H	1.66	0.60
1:KD:38:LYS:HA	1:IS:222:SER:HB2	1.82	0.60
1:DE:116:MET:HE1	1:BP:54:LEU:HD11	1.82	0.60
2:WE:45:ILE:HG13	2:WE:46:HIS:CB	2.32	0.60
4:BF:146:ALA:HB3	4:BM:193:VAL:HB	1.83	0.60
4:BF:152:SER:N	4:BM:187:ILE:O	2.34	0.60
1:RG:110:LYS:CE	1:ZL:105:GLU:OE1	2.48	0.60
3:AH:309:SER:HB2	3:AN:302:TYR:HD2	1.65	0.60
4:BH:187:ILE:O	4:BN:152:SER:N	2.34	0.60
1:AJ:63:LEU:O	1:AJ:64:ILE:C	2.39	0.60
1:AJ:315:ALA:CB	1:JS:30:SER:CA	2.79	0.60
1:BJ:99:MET:HB3	1:LP:25:PHE:HD1	1.62	0.60
1:BJ:157:LYS:NZ	2:iL:2:TYR:OH	2.24	0.60
1:DJ:123:ASN:HD21	1:LP:21:ALA:HB1	1.41	0.60
1:KJ:369:PHE:HZ	1:KP:107:LEU:CB	2.13	0.60
1:LJ:128:LYS:HA	1:LJ:376:ILE:O	2.01	0.60
1:CK:139:ARG:O	1:hR:82:ILE:HA	2.01	0.60
1:KK:99:MET:HE1	1:KP:136:ASN:ND2	2.14	0.60
1:LK:25:PHE:HE1	1:DP:126:VAL:HG11	1.48	0.60
1:LK:47:GLU:C	1:KP:22:LEU:HD23	2.26	0.60
1:LK:109:LEU:HD11	1:iR:106:GLU:HA	1.83	0.60
2:NK:1:MET:CE	2:mR:54:THR:HG21	2.25	0.60
1:IL:137:ASP:OD2	1:KQ:49:PHE:CB	2.39	0.60
1:RL:20:SER:HG	1:RL:21:ALA:N	1.99	0.60
1:RL:110:LYS:CE	1:RQ:105:GLU:OE1	2.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AM:112:ILE:C	2:LS:18:SER:CA	2.73	0.60
5:NN:185:MET:HE1	5:NN:422:LEU:HD22	1.83	0.60
5:NN:468:THR:HG22	5:NN:532:MET:SD	2.41	0.60
1:BP:110:LYS:HE2	1:hR:105:GLU:OE1	1.99	0.60
2:EQ:45:ILE:HG13	2:EQ:46:HIS:CB	2.32	0.60
1:RQ:20:SER:HG	1:RQ:21:ALA:N	1.99	0.60
1:YQ:375:TRP:CZ3	1:AS:367:PRO:CG	2.84	0.60
2:cR:45:ILE:HG13	2:cR:46:HIS:CB	2.32	0.60
1:KS:128:LYS:HA	1:KS:376:ILE:O	2.01	0.60
1:f1:375:TRP:CZ2	1:QG:368:GLU:CG	2.73	0.60
4:B2:30:LEU:H	5:EA:64:TRP:CD1	2.12	0.60
1:K3:49:PHE:CB	1:I4:137:ASP:OD2	2.39	0.60
1:b3:375:TRP:CZ3	1:BD:367:PRO:CG	2.84	0.60
1:B4:22:LEU:CD2	1:aE:47:GLU:CD	2.72	0.60
1:R4:116:MET:CE	1:BS:54:LEU:HD23	2.24	0.60
1:T4:27:HIS:CG	1:BS:312:PRO:CD	2.85	0.60
2:U4:11:MET:HG3	1:BS:133:LEU:HD23	1.84	0.60
2:W4:2:TYR:HB3	1:DD:150:ASN:CG	2.26	0.60
1:g4:116:MET:CE	1:CD:54:LEU:HD23	2.24	0.60
5:E5:140:ASP:OD2	5:C5:139:LYS:HE2	1.99	0.60
1:I6:222:SER:OG	1:CL:53:TYR:HD1	1.77	0.60
1:S6:44:THR:CB	1:CS:16:LYS:HZ3	2.14	0.60
1:C7:27:HIS:CG	1:LK:312:PRO:HD3	2.34	0.60
1:A7:119:LYS:HD2	1:BQ:36:GLY:HA3	1.82	0.60
2:E7:45:ILE:HG13	2:E7:46:HIS:CB	2.32	0.60
1:I7:54:LEU:HD11	1:gR:116:MET:HE1	0.78	0.60
1:i7:20:SER:HA	1:C8:45:MET:O	2.01	0.60
2:k7:45:ILE:HG13	2:k7:46:HIS:CB	2.32	0.60
1:Z8:119:LYS:HD2	1:BR:36:GLY:HA3	1.82	0.60
1:a8:47:GLU:CB	1:bQ:20:SER:HB2	2.20	0.60
1:g8:148:ALA:CB	2:MS:15:TYR:OH	2.44	0.60
5:C9:244:ALA:CB	5:OA:351:ASN:O	2.50	0.60
3:AA:33:ASN:HB2	1:AP:54:LEU:CB	2.30	0.60
4:BB:125:GLN:HE22	4:BB:127:PHE:HB2	1.66	0.60
5:EB:140:ASP:OD2	5:CB:139:LYS:CE	2.48	0.60
5:NB:468:THR:HG22	5:NB:532:MET:SD	2.41	0.60
1:KD:107:LEU:CB	1:KK:369:PHE:HZ	2.13	0.60
1:LD:375:TRP:CZ2	1:YG:368:GLU:HG2	2.37	0.60
1:FE:27:HIS:N	1:LP:100:ASP:CG	2.47	0.60
2:JE:2:TYR:HB3	1:DJ:150:ASN:CG	2.25	0.60
4:BF:154:GLY:HA3	4:BM:184:ASN:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aG:368:GLU:OE1	1:CK:107:LEU:CD2	2.48	0.60
2:kG:45:ILE:HG13	2:kG:46:HIS:CB	2.32	0.60
3:AH:83:TYR:O	1:AP:360:LEU:CG	2.48	0.60
4:BH:14:SER:OG	5:FN:37:ASP:HA	2.00	0.60
1:AJ:60:GLU:HG2	1:KJ:86:SER:HB2	1.83	0.60
1:KJ:30:SER:CA	1:AP:315:ALA:CB	2.79	0.60
1:KJ:79:GLN:NE2	1:KJ:80:ASP:OD1	2.34	0.60
1:LJ:54:LEU:HD13	1:CS:116:MET:SD	2.40	0.60
1:CK:125:ILE:CD1	1:jR:31:LYS:O	2.30	0.60
1:KK:104:ASN:O	1:KP:369:PHE:HZ	1.79	0.60
5:EM:140:ASP:OD2	5:CM:139:LYS:CE	2.48	0.60
1:CP:169:LYS:NZ	1:CP:318:THR:O	2.34	0.60
1:LQ:153:LEU:HD21	2:MQ:4:GLY:HA3	1.81	0.60
1:KS:261:ILE:HD13	1:KS:265:ASP:OD1	2.00	0.60
1:C1:22:LEU:HB2	1:dQ:47:GLU:CG	2.31	0.60
1:I1:45:MET:O	1:UE:20:SER:HA	2.01	0.60
2:U1:15:TYR:HE2	1:CJ:133:LEU:HD23	1.67	0.60
1:Y1:119:LYS:HD2	1:aR:36:GLY:HA3	1.82	0.60
2:b1:45:ILE:HG13	2:b1:46:HIS:CB	2.32	0.60
1:g1:105:GLU:OE1	1:A7:110:LYS:CE	2.48	0.60
1:C3:54:LEU:HD11	1:QG:116:MET:HE1	0.78	0.60
1:I3:22:LEU:HB2	1:SL:47:GLU:CG	2.31	0.60
1:C4:371:GLU:OE1	1:RG:111:ARG:CD	2.44	0.60
1:B4:47:GLU:CB	1:aE:20:SER:HB2	2.20	0.60
1:T4:367:PRO:O	1:BS:377:HIS:HE1	1.82	0.60
1:g4:82:ILE:HA	1:CD:139:ARG:O	2.01	0.60
5:F5:51:ARG:CD	4:BH:32:PHE:HE1	2.14	0.60
1:Q7:45:MET:O	1:aL:20:SER:HA	2.01	0.60
1:Q7:116:MET:HE1	1:QR:54:LEU:HD11	0.78	0.60
2:c7:45:ILE:HG13	2:c7:46:HIS:CB	2.32	0.60
2:c8:45:ILE:HG13	2:c8:46:HIS:CA	2.29	0.60
1:g8:368:GLU:HG2	1:KS:375:TRP:CZ2	2.37	0.60
5:CA:185:MET:HE1	5:CA:422:LEU:HD22	1.83	0.60
5:OA:185:MET:HE1	5:OA:422:LEU:HD22	1.83	0.60
4:BB:146:ALA:HB3	4:BF:193:VAL:HB	1.83	0.60
3:AC:194:ASN:ND2	5:EN:36:ALA:HA	2.17	0.60
4:BC:30:LEU:N	5:EN:64:TRP:CZ2	2.69	0.60
1:AD:222:SER:HB2	1:KK:38:LYS:HA	1.82	0.60
1:CD:184:SER:H	1:CD:220:ARG:HH22	1.50	0.60
1:LD:21:ALA:HB2	1:DK:123:ASN:CG	2.21	0.60
1:LD:31:LYS:CG	1:DK:315:ALA:N	2.57	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:153:LEU:CD1	2:FK:2:TYR:HE2	2.15	0.60
2:EE:45:ILE:HG13	2:EE:46:HIS:CB	2.32	0.60
1:aE:103:LYS:HE2	1:cE:304:GLN:HB3	1.81	0.60
5:FF:41:ASN:CG	4:BO:38:GLN:NE2	2.51	0.60
5:NF:468:THR:HG22	5:NF:532:MET:SD	2.41	0.60
1:CG:366:ASN:HA	1:AR:108:MET:SD	2.40	0.60
1:YG:208:LEU:HD12	1:YG:391:ILE:CD1	2.24	0.60
4:BI:193:VAL:HB	4:BO:146:ALA:HB3	1.83	0.60
5:OI:185:MET:HE1	5:OI:422:LEU:HD22	1.83	0.60
1:LJ:372:VAL:HB	2:ES:10:MET:HB2	1.79	0.60
1:AK:60:GLU:HG2	1:KK:86:SER:HB2	1.83	0.60
1:AK:71:ARG:NH2	1:AK:272:SER:O	2.34	0.60
5:CM:185:MET:HE1	5:CM:422:LEU:HD22	1.83	0.60
5:NO:468:THR:HG22	5:NO:532:MET:SD	2.41	0.60
1:DP:150:ASN:CG	2:mR:2:TYR:HB3	2.26	0.60
2:HP:8:ARG:HB3	2:HP:12:GLY:HA3	1.83	0.60
1:YQ:123:ASN:HD21	1:AS:21:ALA:CB	2.14	0.60
2:fQ:45:ILE:HG13	2:fQ:46:HIS:CB	2.32	0.60
2:MR:45:ILE:HG13	2:MR:46:HIS:CB	2.32	0.60
1:IS:60:GLU:CG	1:JS:87:GLU:H	2.09	0.60
1:R1:105:GLU:OE1	1:AS:110:LYS:HE2	1.99	0.60
1:R1:222:SER:CA	1:CJ:38:LYS:CE	1.78	0.60
1:S1:47:GLU:CG	1:Q8:22:LEU:HB2	2.31	0.60
2:W1:2:TYR:HB3	1:CS:150:ASN:CG	2.25	0.60
1:Y1:110:LYS:CE	1:JL:105:GLU:OE1	2.48	0.60
5:N2:468:THR:HG22	5:N2:532:MET:SD	2.41	0.60
1:C3:371:GLU:OE1	1:h7:111:ARG:CD	2.44	0.60
1:I3:208:LEU:HD12	1:I3:391:ILE:CD1	2.24	0.60
1:Y3:315:ALA:HA	1:BK:30:SER:C	2.26	0.60
1:C4:71:ARG:HH22	1:RG:210:ASN:HD21	1.43	0.60
1:R4:63:LEU:HG	1:R4:63:LEU:O	2.02	0.60
1:R4:106:GLU:N	1:BD:109:LEU:CD1	2.61	0.60
1:X4:45:MET:O	1:BR:20:SER:HA	2.01	0.60
1:h4:20:SER:HA	1:gG:45:MET:O	2.01	0.60
5:E5:64:TRP:CZ2	4:BH:30:LEU:N	2.69	0.60
5:N5:468:THR:HG22	5:N5:532:MET:SD	2.41	0.60
1:C6:22:LEU:HB2	1:iG:47:GLU:CG	2.31	0.60
2:k6:45:ILE:HG13	2:k6:46:HIS:CB	2.32	0.60
1:I7:53:TYR:HD1	1:gR:222:SER:OG	1.77	0.60
1:S7:20:SER:HA	1:QR:45:MET:O	2.01	0.60
1:S7:36:GLY:HA3	1:RL:119:LYS:HD2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:208:LEU:HD12	1:Q8:391:ILE:CD1	2.24	0.60
1:a8:20:SER:HA	1:bQ:45:MET:O	2.01	0.60
5:E9:36:ALA:HA	3:AB:194:ASN:ND2	2.17	0.60
5:F9:51:ARG:CD	4:BB:32:PHE:HE1	2.14	0.60
5:N9:185:MET:HE1	5:N9:422:LEU:HD22	1.83	0.60
4:BA:32:PHE:HE1	5:FH:51:ARG:CD	2.14	0.60
4:BC:125:GLN:HE22	4:BC:127:PHE:HB2	1.66	0.60
5:EC:101:ILE:HA	5:EC:105:ILE:HB	1.84	0.60
5:CC:248:GLN:O	5:NH:230:SER:OG	2.19	0.60
5:CC:468:THR:HG22	5:CC:532:MET:SD	2.41	0.60
1:KD:22:LEU:HD23	1:KS:47:GLU:C	2.27	0.60
1:LD:54:LEU:HD13	1:DK:116:MET:SD	2.40	0.60
1:BE:119:LYS:HD3	1:CP:38:LYS:H	1.65	0.60
1:FE:27:HIS:CG	1:CP:312:PRO:CD	2.85	0.60
1:ME:47:GLU:CG	1:QQ:22:LEU:HB2	2.31	0.60
2:OE:45:ILE:HG13	2:OE:46:HIS:CB	2.32	0.60
1:TE:20:SER:HG	1:TE:21:ALA:N	1.99	0.60
1:RG:63:LEU:HG	1:RG:63:LEU:O	2.02	0.60
5:EH:96:LEU:HD13	5:FH:104:ILE:HD13	1.83	0.60
4:BI:187:ILE:O	4:BO:152:SER:N	2.34	0.60
1:BJ:54:LEU:HD23	1:gL:118:THR:HG21	1.83	0.60
1:LK:39:TRP:HB2	1:DP:120:LEU:CB	2.32	0.60
3:AM:112:ILE:CG2	2:LS:17:ASP:CB	2.75	0.60
5:EM:55:LEU:HD21	5:EO:21:ILE:HG23	1.76	0.60
1:KP:183:LEU:H	1:KP:220:ARG:HH12	1.48	0.60
2:UR:45:ILE:HG13	2:UR:46:HIS:CB	2.32	0.60
1:AS:357:LYS:HG2	2:DS:20:LEU:HD12	1.82	0.60
2:E1:45:ILE:HG13	2:E1:46:HIS:CB	2.32	0.60
1:J1:63:LEU:HG	1:J1:63:LEU:O	2.02	0.60
1:Q1:47:GLU:CD	1:KG:22:LEU:CD2	2.72	0.60
1:f1:116:MET:HE1	1:QG:54:LEU:HD11	0.78	0.60
1:g1:63:LEU:HG	1:g1:63:LEU:O	2.02	0.60
3:A2:154:ILE:HG21	1:AK:55:PHE:H	1.65	0.60
4:B2:184:ASN:HB2	4:B9:154:GLY:HA3	1.82	0.60
5:E2:96:LEU:HD13	5:F2:104:ILE:HD13	1.83	0.60
5:F2:41:ASN:O	5:F2:51:ARG:NH1	2.35	0.60
5:F2:51:ARG:CG	4:BF:32:PHE:HE1	2.15	0.60
1:K3:20:SER:HA	1:I4:45:MET:O	2.01	0.60
1:Q3:45:MET:O	1:Z4:20:SER:HA	2.01	0.60
2:U3:45:ILE:HG13	2:U3:46:HIS:CB	2.32	0.60
1:K4:22:LEU:CD2	1:QL:47:GLU:CD	2.72	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q4:366:ASN:HA	1:ZR:108:MET:SD	2.40	0.60
1:Q4:371:GLU:OE1	1:h8:111:ARG:CD	2.44	0.60
1:g4:375:TRP:CD2	1:CD:367:PRO:HG2	2.36	0.60
5:C5:244:ALA:CB	5:OI:351:ASN:O	2.49	0.60
1:A6:20:SER:HG	1:A6:21:ALA:N	1.99	0.60
1:a6:47:GLU:CG	1:SE:22:LEU:HB2	2.31	0.60
1:g6:27:HIS:CG	1:LP:312:PRO:HD3	2.34	0.60
1:g6:148:ALA:CB	2:NP:15:TYR:OH	2.44	0.60
1:a7:47:GLU:CG	1:KE:22:LEU:HB2	2.31	0.60
1:A8:63:LEU:HG	1:A8:63:LEU:O	2.02	0.60
2:E8:45:ILE:HG13	2:E8:46:HIS:CB	2.32	0.60
2:n8:15:TYR:HE2	1:IQ:152:ALA:HB2	1.67	0.60
4:BC:32:PHE:HE1	5:FN:51:ARG:CD	2.14	0.60
1:BD:261:ILE:HG21	1:BD:265:ASP:OD1	1.98	0.60
1:CD:169:LYS:NZ	1:CD:318:THR:O	2.34	0.60
1:BE:375:TRP:CD2	1:CP:367:PRO:HG2	2.36	0.60
5:FF:51:ARG:CD	4:BO:32:PHE:HE1	2.14	0.60
1:CG:208:LEU:CD1	1:CG:391:ILE:HD12	1.95	0.60
1:AG:63:LEU:O	1:AG:63:LEU:HG	2.02	0.60
1:QG:366:ASN:HA	1:AQ:108:MET:SD	2.40	0.60
5:FH:41:ASN:O	5:FH:51:ARG:NH1	2.35	0.60
1:CK:184:SER:H	1:CK:220:ARG:HH22	1.50	0.60
1:CK:312:PRO:CD	1:jR:27:HIS:CG	2.85	0.60
1:LK:128:LYS:HA	1:LK:376:ILE:O	2.01	0.60
1:JL:63:LEU:HG	1:JL:63:LEU:O	2.02	0.60
1:QL:208:LEU:HD12	1:QL:391:ILE:CD1	2.24	0.60
5:NM:185:MET:HE1	5:NM:422:LEU:HD22	1.83	0.60
5:CO:185:MET:HE1	5:CO:422:LEU:HD22	1.83	0.60
2:MQ:45:ILE:HG13	2:MQ:46:HIS:CB	2.32	0.60
1:JR:63:LEU:HG	1:JR:63:LEU:O	2.02	0.60
1:AS:238:ILE:HA	1:AS:346:ASP:HA	1.84	0.60
1:J1:119:LYS:HD2	1:S8:36:GLY:HA3	1.82	0.60
1:K1:22:LEU:CD2	1:Y6:47:GLU:CD	2.72	0.60
3:A2:107:LEU:O	2:MD:7:MET:HB3	2.00	0.60
4:B2:189:ASN:O	4:B9:150:ASP:N	2.34	0.60
5:O2:274:LEU:O	5:O2:275:ASN:OD1	2.20	0.60
5:O2:351:ASN:O	5:CB:244:ALA:CB	2.49	0.60
1:C3:152:ALA:HB2	2:H4:15:TYR:HE2	1.67	0.60
2:E3:45:ILE:HG13	2:E3:46:HIS:CB	2.32	0.60
1:I3:371:GLU:OE1	1:R8:111:ARG:CD	2.44	0.60
1:K3:36:GLY:HA3	1:A8:119:LYS:HD2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:118:THR:HG21	1:BD:54:LEU:HD23	1.84	0.60
1:A4:111:ARG:CD	1:QG:371:GLU:OE1	2.44	0.60
1:Q4:116:MET:HE1	1:IQ:54:LEU:HD11	0.78	0.60
1:R4:111:ARG:CD	1:g8:371:GLU:OE1	2.44	0.60
1:R4:368:GLU:OE1	1:T4:375:TRP:NE1	2.35	0.60
5:E5:140:ASP:OD2	5:C5:139:LYS:CE	2.48	0.60
5:F5:51:ARG:CG	4:BH:32:PHE:HE1	2.15	0.60
2:E6:45:ILE:HG13	2:E6:46:HIS:CB	2.32	0.60
2:U6:45:ILE:HG13	2:U6:46:HIS:CB	2.32	0.60
1:g6:26:ASN:N	1:AP:100:ASP:OD1	2.35	0.60
1:R7:63:LEU:HG	1:R7:63:LEU:O	2.02	0.60
1:h7:20:SER:HG	1:h7:21:ALA:N	1.99	0.60
1:S8:20:SER:HA	1:IG:45:MET:O	2.01	0.60
4:B9:125:GLN:HE22	4:B9:127:PHE:HB2	1.66	0.60
5:N9:274:LEU:O	5:N9:275:ASN:OD1	2.20	0.60
3:AA:115:ILE:HA	2:MK:7:MET:CE	2.31	0.60
3:AA:309:SER:HB2	3:AC:302:TYR:HD2	1.65	0.60
5:CA:274:LEU:O	5:CA:275:ASN:OD1	2.20	0.60
5:DB:24:THR:CA	3:AM:7:GLY:N	2.47	0.60
5:EC:140:ASP:OD2	5:CC:139:LYS:HE2	1.99	0.60
1:KD:30:SER:CA	1:IS:315:ALA:CB	2.79	0.60
1:KD:368:GLU:HB2	1:JS:108:MET:HA	1.83	0.60
1:LD:47:GLU:C	1:KK:22:LEU:HD23	2.27	0.60
2:MD:11:MET:HE1	1:KK:372:VAL:H	1.62	0.60
1:DE:123:ASN:HD21	1:BP:21:ALA:CB	2.14	0.60
2:HE:15:TYR:HE2	1:CP:133:LEU:HD23	1.67	0.60
1:RG:368:GLU:OE1	1:TG:375:TRP:NE1	2.35	0.60
1:TG:153:LEU:HD21	2:UG:4:GLY:HA3	1.81	0.60
1:YG:302:ASP:HB2	1:DK:29:TYR:OH	2.02	0.60
4:BH:125:GLN:HE22	4:BH:127:PHE:HB2	1.66	0.60
4:BH:193:VAL:HG12	4:BN:144:GLN:NE2	2.12	0.60
5:NH:468:THR:HG22	5:NH:532:MET:SD	2.41	0.60
5:OH:185:MET:HE1	5:OH:422:LEU:HD22	1.83	0.60
3:AI:114:PHE:N	2:MJ:5:ASN:ND2	2.49	0.60
5:EI:96:LEU:HD13	5:FI:104:ILE:HD13	1.83	0.60
1:KJ:22:LEU:HD23	1:LP:47:GLU:C	2.27	0.60
1:KJ:53:TYR:O	1:AP:118:THR:CG2	2.45	0.60
1:AK:119:LYS:HD2	1:KP:36:GLY:CA	2.32	0.60
1:BK:238:ILE:HA	1:BK:346:ASP:HA	1.84	0.60
1:DK:355:TYR:HB3	1:DK:379:TYR:HB3	1.84	0.60
1:KK:79:GLN:NE2	1:KK:80:ASP:OD1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:38:LYS:HG2	1:DP:119:LYS:HZ3	1.52	0.60
5:FM:41:ASN:O	5:FM:51:ARG:NH1	2.35	0.60
5:ON:274:LEU:O	5:ON:275:ASN:OD1	2.20	0.60
3:AO:157:ILE:HG22	1:IS:145:LEU:HD21	1.80	0.60
5:EO:101:ILE:HA	5:EO:105:ILE:HB	1.84	0.60
1:BP:261:ILE:HG21	1:BP:265:ASP:OD1	1.98	0.60
1:JS:183:LEU:H	1:JS:220:ARG:HH12	1.48	0.60
1:I1:259:PHE:CZ	1:JG:259:PHE:CZ	2.90	0.60
2:M1:45:ILE:HG13	2:M1:46:HIS:CB	2.32	0.60
1:Y1:63:LEU:HG	1:Y1:63:LEU:O	2.02	0.60
5:E2:101:ILE:HA	5:E2:105:ILE:HB	1.84	0.60
5:N2:185:MET:HE1	5:N2:422:LEU:HD22	1.83	0.60
1:I3:259:PHE:CZ	1:R8:259:PHE:CZ	2.90	0.60
1:J3:111:ARG:CD	1:Q8:371:GLU:OE1	2.44	0.60
1:J3:259:PHE:CZ	1:Q8:259:PHE:CZ	2.90	0.60
1:J4:259:PHE:CZ	1:C8:259:PHE:CZ	2.90	0.60
1:R4:222:SER:CA	1:BS:38:LYS:HB3	2.25	0.60
1:f4:54:LEU:HD11	1:C6:116:MET:HE1	0.78	0.60
1:h4:47:GLU:CB	1:gG:20:SER:HB2	2.20	0.60
1:i4:134:ASN:O	2:HD:15:TYR:OH	2.17	0.60
1:i4:139:ARG:HB2	1:CD:81:PHE:CE2	2.37	0.60
4:B5:146:ALA:HB3	4:BN:193:VAL:HB	1.83	0.60
4:B5:184:ASN:HB2	4:BI:154:GLY:HA3	1.82	0.60
1:C6:45:MET:O	1:iG:20:SER:HA	2.01	0.60
1:K6:20:SER:HA	1:CL:45:MET:O	2.01	0.60
1:Q6:302:ASP:HB2	1:CS:29:TYR:OH	2.01	0.60
1:S6:31:LYS:CB	1:AS:314:GLY:O	2.49	0.60
1:g6:27:HIS:CB	1:LP:312:PRO:CG	2.80	0.60
1:C7:26:ASN:N	1:AK:100:ASP:OD1	2.35	0.60
1:C7:368:GLU:HG2	1:LK:375:TRP:CZ2	2.37	0.60
1:A7:63:LEU:HG	1:A7:63:LEU:O	2.02	0.60
1:J7:20:SER:HG	1:J7:21:ALA:N	1.98	0.60
1:g7:22:LEU:HB2	1:CE:47:GLU:CG	2.31	0.60
1:S8:49:PHE:CB	1:IG:137:ASP:OD2	2.39	0.60
1:g8:302:ASP:HB2	1:DD:29:TYR:OH	2.01	0.60
5:F9:41:ASN:O	5:F9:51:ARG:NH1	2.34	0.60
4:BB:250:ILE:HD12	3:AM:209:MET:CA	2.26	0.60
5:CB:274:LEU:O	5:CB:275:ASN:OD1	2.20	0.60
5:NB:185:MET:HE1	5:NB:422:LEU:HD22	1.83	0.60
4:BC:193:VAL:HB	4:BH:146:ALA:HB3	1.83	0.60
1:KD:99:MET:HE1	1:KK:136:ASN:ND2	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:39:TRP:HB2	1:DK:120:LEU:CB	2.31	0.60
1:TE:111:ARG:CD	1:IQ:371:GLU:OE1	2.44	0.60
5:EF:36:ALA:HA	3:AO:194:ASN:ND2	2.17	0.60
1:AG:259:PHE:CZ	1:YL:259:PHE:CZ	2.90	0.60
5:CH:185:MET:HE1	5:CH:422:LEU:HD22	1.83	0.60
5:NH:274:LEU:O	5:NH:275:ASN:OD1	2.20	0.60
1:BJ:30:SER:C	1:gL:315:ALA:HA	2.26	0.60
1:LJ:47:GLU:C	1:JS:22:LEU:CD2	2.75	0.60
1:CK:372:VAL:CG1	2:kR:11:MET:HB2	2.28	0.60
1:LK:189:ARG:NH2	1:LK:215:TYR:OH	2.35	0.60
1:RL:63:LEU:HG	1:RL:63:LEU:O	2.02	0.60
1:RL:111:ARG:CD	1:QR:371:GLU:OE1	2.44	0.60
2:UL:45:ILE:HG13	2:UL:46:HIS:CB	2.32	0.60
4:BM:154:GLY:HA3	4:BO:184:ASN:HB2	1.82	0.60
5:NM:274:LEU:O	5:NM:275:ASN:OD1	2.20	0.60
1:AP:71:ARG:NH2	1:AP:272:SER:O	2.34	0.60
1:AQ:368:GLU:OE1	1:DQ:375:TRP:NE1	2.35	0.60
1:YQ:315:ALA:HA	1:AS:30:SER:C	2.27	0.60
2:aQ:2:TYR:CZ	1:AS:157:LYS:NZ	2.52	0.60
1:BS:169:LYS:NZ	1:BS:318:THR:O	2.34	0.60
1:C1:45:MET:O	1:dQ:20:SER:HA	2.01	0.60
2:P1:15:TYR:HE2	1:Q1:152:ALA:HB2	1.67	0.60
1:R1:63:LEU:HG	1:R1:63:LEU:O	2.02	0.60
1:T1:139:ARG:HB2	1:CJ:81:PHE:CE2	2.37	0.60
2:U1:11:MET:HG3	1:CJ:133:LEU:HD23	1.84	0.60
1:X1:208:LEU:HD12	1:X1:391:ILE:CD1	2.24	0.60
1:Y1:259:PHE:CZ	1:I6:259:PHE:CZ	2.90	0.60
4:B2:125:GLN:HE22	4:B2:127:PHE:HB2	1.66	0.60
1:Y3:116:MET:CE	1:BK:54:LEU:HD11	2.31	0.60
1:b3:116:MET:CE	1:BD:54:LEU:HD11	2.31	0.60
1:S4:106:GLU:HA	1:KS:109:LEU:HD11	1.83	0.60
2:W4:11:MET:HG3	1:DD:133:LEU:HB3	1.84	0.60
5:E5:36:ALA:HA	3:AH:194:ASN:ND2	2.17	0.60
1:Q6:27:HIS:CB	1:LJ:312:PRO:CG	2.80	0.60
1:S6:44:THR:HB	1:CS:16:LYS:HZ2	1.65	0.60
1:C7:133:LEU:CD1	2:NK:11:MET:CB	2.80	0.60
1:C7:208:LEU:HD12	1:C7:391:ILE:CD1	2.24	0.60
1:C7:302:ASP:CG	1:DP:29:TYR:HH	1.94	0.60
1:A7:259:PHE:CZ	1:gR:259:PHE:CZ	2.90	0.60
1:Y7:71:ARG:NH2	1:JR:210:ASN:ND2	2.29	0.60
1:Y7:259:PHE:CZ	1:JR:259:PHE:CZ	2.90	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g7:45:MET:O	1:CE:20:SER:HA	2.01	0.60
2:H8:15:TYR:HE2	1:QL:152:ALA:HB2	1.67	0.60
1:T8:325:LYS:HB2	1:T8:325:LYS:HZ2	1.62	0.60
1:i8:368:GLU:OE1	1:CD:107:LEU:CD2	2.48	0.60
5:E9:140:ASP:HB3	5:C9:139:LYS:CG	2.25	0.60
3:AA:7:GLY:N	5:DH:24:THR:CA	2.47	0.60
4:BA:30:LEU:N	5:EH:64:TRP:CZ2	2.70	0.60
5:EA:140:ASP:HB3	5:CA:139:LYS:CG	2.25	0.60
5:NA:185:MET:HE1	5:NA:422:LEU:HD22	1.83	0.60
1:DD:120:LEU:CB	1:KS:39:TRP:HB2	2.32	0.60
1:KD:16:LYS:N	1:KS:45:MET:HE2	2.16	0.60
1:BE:81:PHE:HZ	1:CP:136:ASN:O	1.84	0.60
1:BE:82:ILE:HA	1:CP:139:ARG:O	2.01	0.60
1:FE:139:ARG:HB2	1:CP:81:PHE:CE2	2.37	0.60
1:KE:152:ALA:HB2	2:PR:15:TYR:HE2	1.67	0.60
1:bE:210:ASN:HD21	1:CR:71:ARG:HH22	1.43	0.60
1:cE:47:GLU:CG	1:CG:22:LEU:HB2	2.31	0.60
4:BF:250:ILE:HD12	3:AO:209:MET:CA	2.26	0.60
3:AH:228:ILE:HD12	3:AN:233:GLU:OE1	2.01	0.60
5:EI:64:TRP:CZ2	4:BN:30:LEU:N	2.69	0.60
5:CI:244:ALA:CB	5:OO:351:ASN:O	2.50	0.60
5:CI:274:LEU:O	5:CI:275:ASN:OD1	2.20	0.60
1:BJ:54:LEU:HD11	1:gL:116:MET:CE	2.31	0.60
1:LJ:39:TRP:HB2	1:CS:120:LEU:CB	2.32	0.60
1:LJ:189:ARG:NH2	1:LJ:215:TYR:OH	2.35	0.60
1:LK:25:PHE:HD1	1:BP:99:MET:HB3	1.62	0.60
2:EL:45:ILE:HG13	2:EL:46:HIS:CB	2.32	0.60
4:BM:125:GLN:HE22	4:BM:127:PHE:HB2	1.66	0.60
1:AP:60:GLU:HG2	1:KP:86:SER:HB2	1.83	0.60
1:CQ:152:ALA:HB2	2:iQ:15:TYR:HE2	1.67	0.60
1:BQ:20:SER:HA	1:gR:45:MET:O	2.01	0.60
1:YQ:116:MET:HE1	1:AS:54:LEU:HD11	1.82	0.60
1:AR:63:LEU:HG	1:AR:63:LEU:O	2.02	0.60
1:ZR:368:GLU:OE1	1:bR:375:TRP:NE1	2.35	0.60
1:R1:259:PHE:CZ	1:Q6:259:PHE:CZ	2.90	0.59
1:T1:136:ASN:O	1:CJ:81:PHE:CZ	2.53	0.59
4:B2:145:ASN:HB3	4:B2:192:THR:H	1.67	0.59
1:K3:47:GLU:CG	1:I4:22:LEU:HB2	2.31	0.59
2:M3:45:ILE:HG13	2:M3:46:HIS:CB	2.32	0.59
1:S3:20:SER:HA	1:CR:45:MET:O	2.01	0.59
1:b3:170:GLU:OE2	1:BD:32:SER:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:45:ILE:HG13	2:E4:46:HIS:CB	2.32	0.59
2:P4:15:TYR:HE2	1:AE:152:ALA:HB2	1.67	0.59
1:Q4:54:LEU:HD11	1:IL:116:MET:HE1	0.78	0.59
2:W4:55:GLY:CA	2:MS:2:TYR:HB2	2.32	0.59
2:l4:5:ASN:H	1:DK:153:LEU:CD1	2.08	0.59
2:l4:55:GLY:CA	2:ND:2:TYR:HB2	2.32	0.59
3:A5:202:ASN:ND2	5:DM:38:TYR:HD1	1.98	0.59
1:I6:45:MET:O	1:aR:20:SER:HA	2.01	0.59
2:M6:45:ILE:HG13	2:M6:46:HIS:CB	2.32	0.59
1:Q6:133:LEU:CD1	2:NJ:11:MET:CB	2.80	0.59
1:Q6:139:ARG:NH1	1:LJ:81:PHE:CD2	2.44	0.59
1:Y6:152:ALA:HB2	2:PG:15:TYR:HE2	1.67	0.59
1:a6:20:SER:HA	1:SE:45:MET:O	2.01	0.59
1:I7:45:MET:O	1:iR:20:SER:HA	2.01	0.59
2:M7:45:ILE:HG13	2:M7:46:HIS:CB	2.32	0.59
1:Y7:22:LEU:HB2	1:SQ:47:GLU:CG	2.31	0.59
1:S8:47:GLU:CG	1:IG:22:LEU:HB2	2.31	0.59
2:k8:45:ILE:HG13	2:k8:46:HIS:CB	2.32	0.59
4:B9:32:PHE:HE1	5:FC:51:ARG:CD	2.14	0.59
4:B9:145:ASN:HB3	4:B9:192:THR:H	1.68	0.59
5:E9:21:ILE:HG23	5:EA:55:LEU:HD21	1.76	0.59
5:C9:185:MET:HE1	5:C9:422:LEU:HD22	1.83	0.59
1:AD:71:ARG:NH2	1:AD:272:SER:O	2.34	0.59
1:AD:80:ASP:O	1:KK:145:LEU:CD1	2.48	0.59
1:AD:100:ASP:OD1	1:YG:26:ASN:N	2.35	0.59
2:FD:10:MET:CE	1:KS:365:HIS:CD2	2.57	0.59
2:HD:8:ARG:HB3	2:HD:12:GLY:HA3	1.83	0.59
1:KD:36:GLY:CA	1:IS:119:LYS:HD2	2.32	0.59
1:FE:47:GLU:CD	1:BP:22:LEU:HD22	2.27	0.59
2:eE:45:ILE:HG13	2:eE:46:HIS:CB	2.32	0.59
1:ZG:20:SER:HG	1:ZG:21:ALA:N	1.99	0.59
2:fG:15:TYR:HE2	1:gG:152:ALA:HB2	1.67	0.59
2:nG:15:TYR:HE2	1:YR:152:ALA:HB2	1.67	0.59
4:BH:184:ASN:HB2	4:BN:154:GLY:HA3	1.83	0.59
5:DI:44:SER:HB3	3:AN:10:VAL:HG22	1.84	0.59
5:CI:248:GLN:O	5:NO:230:SER:OG	2.19	0.59
1:AJ:222:SER:C	1:JS:53:TYR:CE1	2.80	0.59
2:FJ:2:TYR:HE2	1:LP:153:LEU:CD1	2.15	0.59
2:FJ:15:TYR:CD2	1:LP:148:ALA:O	2.31	0.59
1:JL:259:PHE:CZ	1:YR:259:PHE:CZ	2.90	0.59
1:RL:259:PHE:CZ	1:QR:259:PHE:CZ	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EM:66:TYR:HB2	5:EO:10:TYR:CZ	2.31	0.59
5:EM:140:ASP:HB2	5:CM:139:LYS:HD2	1.84	0.59
5:CM:274:LEU:O	5:CM:275:ASN:OD1	2.20	0.59
5:CN:185:MET:HE1	5:CN:422:LEU:HD22	1.83	0.59
5:ON:185:MET:HE1	5:ON:422:LEU:HD22	1.83	0.59
5:FO:41:ASN:O	5:FO:51:ARG:NH1	2.35	0.59
5:OO:468:THR:HG22	5:OO:532:MET:SD	2.41	0.59
2:UQ:45:ILE:HG13	2:UQ:46:HIS:CB	2.32	0.59
1:C1:54:LEU:HD11	1:bQ:116:MET:HE1	0.78	0.59
1:C1:244:ASP:OD2	1:A6:206:LEU:O	2.21	0.59
1:A1:206:LEU:O	1:C6:244:ASP:OD2	2.21	0.59
1:R1:111:ARG:CD	1:Q6:371:GLU:OE1	2.44	0.59
1:R1:222:SER:C	1:CJ:53:TYR:CD1	2.80	0.59
1:g1:259:PHE:CZ	1:CQ:259:PHE:CZ	2.90	0.59
3:A2:228:ILE:HD12	3:A9:233:GLU:OE1	2.01	0.59
5:E2:64:TRP:CZ2	4:BF:30:LEU:N	2.69	0.59
1:T3:172:ARG:HH12	1:T3:277:GLY:H	1.51	0.59
2:c3:45:ILE:HG13	2:c3:46:HIS:CB	2.32	0.59
1:R4:81:PHE:HZ	1:BS:136:ASN:O	1.84	0.59
2:e4:15:TYR:HE2	1:bQ:152:ALA:HB2	1.67	0.59
1:g4:222:SER:C	1:CD:53:TYR:CD1	2.80	0.59
5:C5:275:ASN:ND2	5:OI:371:PRO:CB	2.56	0.59
1:S6:20:SER:OG	1:CS:47:GLU:CG	2.49	0.59
1:j6:325:LYS:HB2	1:j6:325:LYS:HZ2	1.65	0.59
1:C7:302:ASP:HB2	1:DP:29:TYR:OH	2.02	0.59
1:I7:321:VAL:O	1:I7:321:VAL:HG13	2.03	0.59
1:Z7:206:LEU:O	1:IR:244:ASP:OD2	2.21	0.59
2:f7:15:TYR:HE2	1:I8:152:ALA:HB2	1.67	0.59
1:g8:26:ASN:N	1:IS:100:ASP:OD1	2.35	0.59
1:g8:367:PRO:CD	1:KS:375:TRP:CZ3	2.82	0.59
5:F9:51:ARG:CG	4:BB:32:PHE:HE1	2.15	0.59
5:EA:140:ASP:O	5:CA:143:LYS:CD	2.50	0.59
5:CA:244:ALA:CB	5:OC:351:ASN:O	2.50	0.59
5:EB:57:GLU:CG	4:BM:33:TYR:HE1	2.09	0.59
5:NB:230:SER:OG	5:CF:248:GLN:O	2.19	0.59
5:NB:274:LEU:O	5:NB:275:ASN:OD1	2.20	0.59
3:AC:29:ARG:HH12	1:AP:135:ASN:C	2.08	0.59
1:DD:119:LYS:HZ1	1:KS:38:LYS:CD	2.15	0.59
2:FD:2:TYR:CE2	1:KS:153:LEU:HD13	2.34	0.59
1:KD:53:TYR:CE1	1:IS:222:SER:C	2.80	0.59
1:KD:53:TYR:HB3	1:IS:118:THR:CG2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:47:GLU:C	1:KK:22:LEU:CD2	2.75	0.59
1:LD:57:LYS:HZ1	1:KK:61:THR:HG22	1.67	0.59
1:AE:208:LEU:HD12	1:AE:391:ILE:CD1	2.24	0.59
2:HE:11:MET:HG3	1:CP:133:LEU:HD23	1.84	0.59
1:bE:368:GLU:OE1	1:dE:375:TRP:NE1	2.35	0.59
3:AI:309:SER:HB2	3:AO:302:TYR:HD2	1.65	0.59
4:BI:30:LEU:N	5:EM:64:TRP:CZ2	2.70	0.59
4:BI:38:GLN:NE2	5:FM:41:ASN:CG	2.51	0.59
4:BI:193:VAL:HG12	4:BO:144:GLN:NE2	2.12	0.59
5:EI:101:ILE:HA	5:EI:105:ILE:HB	1.84	0.59
1:KJ:53:TYR:CE1	1:AP:222:SER:C	2.80	0.59
1:LJ:25:PHE:HD1	1:AS:99:MET:O	1.85	0.59
1:LJ:47:GLU:C	1:JS:22:LEU:HD23	2.27	0.59
1:CK:81:PHE:CE2	1:jR:139:ARG:HB2	2.37	0.59
1:CL:321:VAL:O	1:CL:321:VAL:HG13	2.03	0.59
1:IL:321:VAL:O	1:IL:321:VAL:HG13	2.02	0.59
5:NM:230:SER:OG	5:CO:248:GLN:O	2.19	0.59
5:EN:96:LEU:HD13	5:FN:104:ILE:HD13	1.83	0.59
4:BO:145:ASN:HB3	4:BO:192:THR:H	1.67	0.59
1:AP:188:VAL:HG12	1:AP:392:LEU:HD12	1.84	0.59
1:DP:74:TRP:HZ2	2:GP:48:LEU:HD22	1.66	0.59
1:CS:18:ALA:HA	1:CS:23:GLN:HG3	1.85	0.59
1:CS:74:TRP:HZ2	2:FS:48:LEU:HD22	1.66	0.59
1:I1:321:VAL:HG13	1:I1:321:VAL:O	2.03	0.59
1:L1:172:ARG:HH12	1:L1:277:GLY:H	1.51	0.59
1:Q1:116:MET:HE1	1:Q8:54:LEU:HD11	0.78	0.59
1:S1:170:GLU:HG3	1:S1:382:LYS:HE2	1.85	0.59
1:f1:321:VAL:O	1:f1:321:VAL:HG13	2.02	0.59
3:A2:194:ASN:ND2	5:EA:36:ALA:HA	2.17	0.59
4:B2:6:MET:HB2	5:E9:46:TYR:CD2	2.37	0.59
4:B2:146:ALA:HB3	4:BB:193:VAL:HB	1.83	0.59
5:F2:51:ARG:CD	4:BF:32:PHE:HE1	2.14	0.59
1:Q3:208:LEU:HD12	1:Q3:391:ILE:CD1	2.24	0.59
1:Q3:259:PHE:CZ	1:J8:259:PHE:CZ	2.90	0.59
1:C4:152:ALA:HB2	2:fL:15:TYR:HE2	1.67	0.59
1:R4:316:VAL:CG2	1:BS:31:LYS:CE	2.73	0.59
1:X4:22:LEU:HB2	1:BR:47:GLU:CG	2.31	0.59
1:Y4:259:PHE:CZ	1:Y8:259:PHE:CZ	2.90	0.59
1:Y4:368:GLU:OE1	1:a4:375:TRP:NE1	2.35	0.59
1:f4:259:PHE:CZ	1:ZG:259:PHE:CZ	2.90	0.59
2:l4:54:THR:HG21	2:ND:1:MET:CE	2.25	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:194:ASN:ND2	5:EO:36:ALA:HA	2.17	0.59
5:C5:274:LEU:O	5:C5:275:ASN:OD1	2.20	0.59
1:Q6:27:HIS:CG	1:LJ:312:PRO:HD3	2.34	0.59
1:S6:44:THR:CB	1:CS:16:LYS:NZ	2.66	0.59
1:Z6:259:PHE:CZ	1:KE:259:PHE:CZ	2.90	0.59
1:g6:259:PHE:CZ	1:BE:259:PHE:CZ	2.90	0.59
1:J7:206:LEU:O	1:bQ:244:ASP:OD2	2.21	0.59
1:J7:259:PHE:CZ	1:bQ:259:PHE:CZ	2.90	0.59
1:Q7:321:VAL:HG13	1:Q7:321:VAL:O	2.03	0.59
1:T7:172:ARG:HH12	1:T7:277:GLY:H	1.51	0.59
2:X7:15:TYR:HE2	1:Y7:152:ALA:HB2	1.67	0.59
1:D8:172:ARG:HH12	1:D8:277:GLY:H	1.51	0.59
2:U8:45:ILE:HG13	2:U8:46:HIS:CB	2.32	0.59
1:g8:27:HIS:CB	1:KS:312:PRO:CG	2.80	0.59
4:B9:6:MET:HB2	5:EA:46:TYR:CD2	2.37	0.59
4:B9:30:LEU:N	5:EC:64:TRP:CZ2	2.69	0.59
5:C9:248:GLN:O	5:NA:230:SER:OG	2.19	0.59
3:AA:194:ASN:ND2	5:EH:36:ALA:HA	2.17	0.59
4:BA:145:ASN:HB3	4:BA:192:THR:H	1.68	0.59
4:BA:193:VAL:HB	4:BC:146:ALA:HB3	1.83	0.59
5:EA:101:ILE:HA	5:EA:105:ILE:HB	1.84	0.59
5:EB:46:TYR:CD2	4:BF:6:MET:HB2	2.37	0.59
5:FB:51:ARG:CD	4:BM:32:PHE:HE1	2.14	0.59
5:OC:274:LEU:O	5:OC:275:ASN:OD1	2.20	0.59
1:AD:315:ALA:HB1	1:KK:30:SER:N	2.18	0.59
1:LD:45:MET:HE2	1:KK:16:LYS:N	2.16	0.59
1:LD:312:PRO:CG	1:YG:27:HIS:CB	2.80	0.59
2:ND:11:MET:CB	1:YG:133:LEU:CD1	2.80	0.59
1:DE:118:THR:HG21	1:BP:54:LEU:HD23	1.83	0.59
1:bE:63:LEU:HG	1:bE:63:LEU:O	2.02	0.59
5:OF:351:ASN:O	5:CM:244:ALA:CB	2.49	0.59
1:JG:20:SER:HG	1:JG:21:ALA:N	1.99	0.59
1:ZG:368:GLU:OE1	1:bG:375:TRP:NE1	2.35	0.59
1:gG:244:ASP:OD2	1:AL:206:LEU:O	2.21	0.59
1:jG:172:ARG:HH12	1:jG:277:GLY:H	1.50	0.59
4:BH:145:ASN:HB3	4:BH:192:THR:H	1.68	0.59
5:CH:274:LEU:O	5:CH:275:ASN:OD1	2.20	0.59
5:OH:274:LEU:O	5:OH:275:ASN:OD1	2.20	0.59
5:OI:274:LEU:O	5:OI:275:ASN:OD1	2.20	0.59
1:DJ:18:ALA:HA	1:DJ:23:GLN:HG3	1.85	0.59
1:DJ:120:LEU:CB	1:LP:39:TRP:HB2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LJ:57:LYS:HA	1:JS:58:ILE:HG22	1.82	0.59
1:AK:310:THR:C	1:KP:27:HIS:ND1	2.60	0.59
1:AK:315:ALA:CB	1:KP:30:SER:HA	2.33	0.59
1:LK:38:LYS:CD	1:DP:119:LYS:HZ1	2.15	0.59
1:IL:71:ARG:HH22	1:ZR:210:ASN:HD21	1.43	0.59
2:PL:25:GLU:OE1	1:YR:73:ASN:O	1.93	0.59
1:QL:244:ASP:OD2	1:RR:206:LEU:O	2.21	0.59
1:TL:172:ARG:HH12	1:TL:277:GLY:H	1.50	0.59
1:gL:172:ARG:HH12	1:gL:277:GLY:H	1.51	0.59
5:EO:96:LEU:HD13	5:FO:104:ILE:HD13	1.83	0.59
1:AR:368:GLU:OE1	1:DR:375:TRP:NE1	2.35	0.59
1:DR:325:LYS:HB2	1:DR:325:LYS:HZ2	1.66	0.59
2:ER:45:ILE:HG13	2:ER:46:HIS:CB	2.32	0.59
1:C1:80:ASP:CG	1:Y8:145:LEU:HD11	2.28	0.59
1:C1:116:MET:HE1	1:Y8:54:LEU:HD11	0.78	0.59
1:K1:170:GLU:HG3	1:K1:382:LYS:HE2	1.85	0.59
1:Q1:244:ASP:OD2	1:R6:206:LEU:O	2.21	0.59
1:R1:82:ILE:HA	1:CJ:139:ARG:O	2.01	0.59
1:T1:172:ARG:HH12	1:T1:277:GLY:H	1.50	0.59
2:U1:11:MET:HB2	1:CJ:372:VAL:CG1	2.28	0.59
1:I3:54:LEU:HD11	1:QL:116:MET:HE1	0.78	0.59
1:R3:259:PHE:CZ	1:I8:259:PHE:CZ	2.90	0.59
1:b3:325:LYS:HB2	1:b3:325:LYS:HZ2	1.66	0.59
1:Q4:321:VAL:O	1:Q4:321:VAL:HG13	2.03	0.59
1:R4:375:TRP:CD2	1:BS:367:PRO:HG2	2.37	0.59
2:b4:45:ILE:HG13	2:b4:46:HIS:CB	2.32	0.59
1:f4:145:LEU:HD11	1:C6:80:ASP:CG	2.28	0.59
5:F5:41:ASN:O	5:F5:51:ARG:NH1	2.35	0.59
5:C5:185:MET:HE1	5:C5:422:LEU:HD22	1.83	0.59
5:N5:274:LEU:O	5:N5:275:ASN:OD1	2.20	0.59
2:P6:15:TYR:HE2	1:IR:152:ALA:HB2	1.67	0.59
1:Q6:81:PHE:HD2	1:CS:139:ARG:HD3	1.46	0.59
1:Y6:208:LEU:HD12	1:Y6:391:ILE:CD1	2.24	0.59
1:Y6:321:VAL:O	1:Y6:321:VAL:HG13	2.03	0.59
1:i6:31:LYS:CB	1:BJ:314:GLY:O	2.49	0.59
1:C7:57:LYS:CD	1:CK:58:ILE:HG21	2.32	0.59
1:A7:368:GLU:OE1	1:D7:375:TRP:NE1	2.35	0.59
1:g7:54:LEU:HD11	1:AE:116:MET:HE1	0.77	0.59
1:C8:321:VAL:O	1:C8:321:VAL:HG13	2.03	0.59
1:B8:170:GLU:HG3	1:B8:382:LYS:HE2	1.85	0.59
1:K8:170:GLU:HG3	1:K8:382:LYS:HE2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BA:32:PHE:HE1	5:FH:51:ARG:CG	2.15	0.59
5:FA:41:ASN:O	5:FA:51:ARG:NH1	2.35	0.59
3:AB:116:VAL:CG1	2:MD:19:ARG:HG2	2.32	0.59
5:EB:101:ILE:HA	5:EB:105:ILE:HB	1.84	0.59
5:EC:10:TYR:HH	5:EH:66:TYR:HB2	1.65	0.59
5:NC:274:LEU:O	5:NC:275:ASN:OD1	2.20	0.59
1:BD:238:ILE:HA	1:BD:346:ASP:HA	1.84	0.59
1:DD:119:LYS:HZ3	1:KS:38:LYS:HG2	1.51	0.59
2:FD:2:TYR:CE2	1:KS:157:LYS:NZ	2.70	0.59
1:KD:115:ARG:NH2	1:KD:226:ILE:O	2.34	0.59
1:KD:136:ASN:ND2	1:JS:99:MET:HE1	2.14	0.59
1:LD:33:TRP:CZ3	1:DK:170:GLU:O	2.55	0.59
1:DE:315:ALA:HA	1:BP:30:SER:C	2.27	0.59
1:AE:321:VAL:O	1:AE:321:VAL:HG13	2.03	0.59
1:aE:116:MET:HE1	1:CG:54:LEU:HD11	0.78	0.59
4:BF:150:ASP:N	4:BM:189:ASN:O	2.34	0.59
5:EF:96:LEU:HD13	5:FF:104:ILE:HD13	1.83	0.59
1:QG:321:VAL:O	1:QG:321:VAL:HG13	2.03	0.59
1:gG:259:PHE:CZ	1:AL:259:PHE:CZ	2.90	0.59
5:CH:244:ALA:CB	5:ON:351:ASN:O	2.50	0.59
5:CH:248:GLN:O	5:NN:230:SER:OG	2.19	0.59
4:BI:32:PHE:HE1	5:FM:51:ARG:CD	2.14	0.59
4:BI:32:PHE:HE1	5:FM:51:ARG:CG	2.15	0.59
1:AJ:315:ALA:CB	1:JS:30:SER:HA	2.33	0.59
1:CJ:184:SER:H	1:CJ:220:ARG:HH22	1.50	0.59
1:AK:174:MET:CA	1:KP:33:TRP:CE2	2.83	0.59
1:BL:47:GLU:CG	1:YR:22:LEU:HB2	2.31	0.59
1:SL:170:GLU:HG3	1:SL:382:LYS:HE2	1.85	0.59
5:OM:185:MET:HE1	5:OM:422:LEU:HD22	1.83	0.59
5:OM:351:ASN:O	5:CO:244:ALA:CB	2.49	0.59
4:BN:145:ASN:HB3	4:BN:192:THR:H	1.67	0.59
5:NO:274:LEU:O	5:NO:275:ASN:OD1	2.20	0.59
1:eQ:172:ARG:HH12	1:eQ:277:GLY:H	1.50	0.59
1:C1:145:LEU:HD11	1:bQ:80:ASP:CG	2.28	0.59
1:C1:152:ALA:HB2	2:P7:15:TYR:HE2	1.67	0.59
1:T1:27:HIS:CG	1:CJ:312:PRO:CD	2.85	0.59
2:e1:15:TYR:HE2	1:CL:152:ALA:HB2	1.67	0.59
1:f1:244:ASP:OD2	1:AQ:206:LEU:O	2.21	0.59
1:i1:172:ARG:HH12	1:i1:277:GLY:H	1.50	0.59
5:E2:36:ALA:HA	3:AF:194:ASN:ND2	2.17	0.59
5:N2:230:SER:OG	5:CB:248:GLN:O	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O2:371:PRO:CB	5:CB:275:ASN:ND2	2.56	0.59
1:C3:321:VAL:O	1:C3:321:VAL:HG13	2.03	0.59
1:C4:45:MET:O	1:BG:20:SER:HA	2.01	0.59
1:C4:244:ASP:OD2	1:RG:206:LEU:O	2.21	0.59
1:A4:259:PHE:CZ	1:QG:259:PHE:CZ	2.90	0.59
1:R4:206:LEU:O	1:g8:244:ASP:OD2	2.21	0.59
1:T4:29:TYR:HA	1:KS:98:ASN:ND2	2.18	0.59
1:Y4:206:LEU:O	1:Y8:244:ASP:OD2	2.21	0.59
1:a4:172:ARG:HH12	1:a4:277:GLY:H	1.51	0.59
1:f4:244:ASP:OD2	1:ZG:206:LEU:O	2.21	0.59
1:h4:150:ASN:HD21	2:FL:1:MET:H3	1.50	0.59
1:C6:54:LEU:HD11	1:gG:116:MET:HE1	0.78	0.59
1:C6:145:LEU:HD11	1:gG:80:ASP:CG	2.28	0.59
1:B6:150:ASN:HD21	2:dG:1:MET:H3	1.51	0.59
1:Q6:368:GLU:HG2	1:LJ:375:TRP:CZ2	2.37	0.59
1:g6:31:LYS:CD	1:LP:314:GLY:HA3	2.29	0.59
1:B7:368:GLU:OE1	1:CP:107:LEU:CD2	2.48	0.59
1:K7:47:GLU:CG	1:CQ:22:LEU:HB2	2.31	0.59
1:Q7:259:PHE:CZ	1:RQ:259:PHE:CZ	2.90	0.59
1:Z7:63:LEU:O	1:Z7:63:LEU:HG	2.02	0.59
1:I8:145:LEU:HD11	1:IR:80:ASP:CG	2.28	0.59
1:I8:321:VAL:O	1:I8:321:VAL:HG13	2.03	0.59
1:b8:179:SER:HG	1:b8:341:TYR:HH	1.50	0.59
1:i8:44:THR:CB	1:DD:16:LYS:NZ	2.66	0.59
4:B9:38:GLN:NE2	5:FC:41:ASN:CG	2.51	0.59
5:E9:64:TRP:CZ2	4:BB:30:LEU:N	2.69	0.59
5:O9:185:MET:HE1	5:O9:422:LEU:HD22	1.83	0.59
4:BA:33:TYR:HE1	5:EH:57:GLU:CG	2.09	0.59
4:BA:184:ASN:HB2	4:BC:154:GLY:HA3	1.82	0.59
3:AB:114:PHE:CG	1:AD:360:LEU:HD23	2.31	0.59
4:BC:6:MET:HB2	5:EH:46:TYR:CD2	2.37	0.59
5:FC:41:ASN:O	5:FC:51:ARG:NH1	2.35	0.59
1:AD:119:LYS:HD2	1:KK:36:GLY:HA3	1.85	0.59
2:FD:11:MET:HB3	1:KS:133:LEU:HG	1.79	0.59
1:KD:58:ILE:HG22	1:KS:57:LYS:HA	1.82	0.59
1:KD:98:ASN:HD21	1:KK:30:SER:CB	2.02	0.59
1:FE:374:HIS:CE1	2:HP:8:ARG:HH12	2.12	0.59
1:bE:259:PHE:CZ	1:CR:259:PHE:CZ	2.90	0.59
5:FF:51:ARG:CG	4:BO:32:PHE:HE1	2.15	0.59
5:NF:274:LEU:O	5:NF:275:ASN:OD1	2.20	0.59
2:EG:45:ILE:HG13	2:EG:46:HIS:CB	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cG:45:ILE:HG13	2:cG:46:HIS:CB	2.32	0.59
4:BH:193:VAL:HB	4:BN:146:ALA:HB3	1.83	0.59
3:AI:228:ILE:HD12	3:AO:233:GLU:OE1	2.01	0.59
5:EI:36:ALA:HA	3:AN:194:ASN:ND2	2.17	0.59
5:FI:41:ASN:O	5:FI:51:ARG:NH1	2.35	0.59
1:AJ:188:VAL:HG12	1:AJ:392:LEU:HD12	1.85	0.59
1:KJ:357:LYS:NZ	3:AN:66:ILE:CA	2.66	0.59
1:LJ:55:PHE:CZ	1:CS:85:TYR:HB2	2.38	0.59
1:AK:222:SER:C	1:KP:53:TYR:CE1	2.80	0.59
1:BK:22:LEU:HD22	1:jR:47:GLU:CD	2.27	0.59
1:CK:34:THR:O	1:hR:383:ALA:HA	2.03	0.59
1:CK:133:LEU:HD23	2:kR:15:TYR:HE2	1.67	0.59
1:IL:244:ASP:OD2	1:ZR:206:LEU:O	2.21	0.59
5:EM:140:ASP:O	5:CM:143:LYS:CD	2.50	0.59
1:DP:133:LEU:HB3	2:mR:11:MET:HG3	1.84	0.59
1:IQ:321:VAL:O	1:IQ:321:VAL:HG13	2.03	0.59
1:KR:170:GLU:HG3	1:KR:382:LYS:HE2	1.85	0.59
2:FS:31:SER:HB3	2:LS:45:ILE:HD11	1.85	0.59
1:JS:115:ARG:NH2	1:JS:226:ILE:O	2.34	0.59
1:I1:80:ASP:CG	1:Y6:145:LEU:HD11	2.28	0.59
1:Y1:368:GLU:OE1	1:a1:375:TRP:NE1	2.35	0.59
1:f1:71:ARG:HH22	1:AQ:210:ASN:HD21	1.43	0.59
2:j1:45:ILE:HG13	2:j1:46:HIS:CB	2.32	0.59
3:A2:112:ILE:CG1	2:MD:5:ASN:CG	2.74	0.59
4:B2:150:ASP:N	4:BB:189:ASN:O	2.34	0.59
1:C3:259:PHE:CZ	1:h7:259:PHE:CZ	2.90	0.59
1:Y3:170:GLU:OE2	1:BK:32:SER:HB2	2.02	0.59
1:Q4:259:PHE:CZ	1:h8:259:PHE:CZ	2.90	0.59
1:T4:47:GLU:CD	1:AS:22:LEU:HD22	2.27	0.59
1:f4:116:MET:HE1	1:gG:54:LEU:HD11	0.78	0.59
1:g4:81:PHE:CE1	1:CD:140:PHE:CE1	2.89	0.59
1:i4:179:SER:HG	1:i4:341:TYR:HH	1.50	0.59
2:j4:15:TYR:HE2	1:CD:133:LEU:HD23	1.67	0.59
1:J6:63:LEU:HG	1:J6:63:LEU:O	2.02	0.59
1:Q6:321:VAL:HG13	1:Q6:321:VAL:O	2.03	0.59
1:R6:63:LEU:HG	1:R6:63:LEU:O	2.02	0.59
1:g6:57:LYS:CD	1:CP:58:ILE:HG21	2.32	0.59
1:h6:206:LEU:O	1:AE:244:ASP:OD2	2.20	0.59
1:I7:116:MET:HE1	1:CQ:54:LEU:HD11	0.78	0.59
2:N7:1:MET:H3	1:a8:150:ASN:HD21	1.50	0.59
1:C8:80:ASP:CG	1:AE:145:LEU:HD11	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D9:24:THR:CA	3:AB:7:GLY:N	2.47	0.59
5:E9:36:ALA:CA	3:AB:194:ASN:ND2	2.66	0.59
3:AB:117:PRO:CD	2:MD:19:ARG:NH1	2.56	0.59
5:OB:274:LEU:O	5:OB:275:ASN:OD1	2.20	0.59
5:NC:185:MET:HE1	5:NC:422:LEU:HD22	1.83	0.59
1:DD:74:TRP:HZ2	2:GD:48:LEU:HD22	1.66	0.59
2:GD:54:THR:O	2:LS:1:MET:CB	2.29	0.59
1:KD:58:ILE:HG21	1:KS:57:LYS:CA	2.21	0.59
1:KD:145:LEU:CD1	1:IS:80:ASP:O	2.48	0.59
1:LD:157:LYS:NZ	2:FK:2:TYR:CE2	2.70	0.59
1:DE:170:GLU:OE2	1:BP:32:SER:HB2	2.02	0.59
1:DE:172:ARG:HH12	1:DE:277:GLY:H	1.51	0.59
1:BE:222:SER:C	1:CP:53:TYR:CD1	2.80	0.59
1:cE:170:GLU:HG3	1:cE:382:LYS:HE2	1.85	0.59
3:AF:181:SER:OG	3:AM:204:ALA:O	2.18	0.59
5:EF:140:ASP:O	5:CF:143:LYS:CD	2.50	0.59
5:NF:230:SER:OG	5:CM:248:GLN:O	2.19	0.59
2:UG:45:ILE:HG13	2:UG:46:HIS:CB	2.32	0.59
1:aG:44:THR:CB	1:DK:16:LYS:NZ	2.66	0.59
1:aG:46:PHE:CZ	1:DK:39:TRP:CH2	2.91	0.59
1:bG:172:ARG:HH12	1:bG:277:GLY:H	1.51	0.59
1:hG:210:ASN:ND2	1:CL:71:ARG:NH2	2.29	0.59
1:iG:170:GLU:HG3	1:iG:382:LYS:HE2	1.85	0.59
1:AJ:118:THR:CG2	1:JS:53:TYR:HB3	2.32	0.59
1:AJ:119:LYS:HD2	1:JS:36:GLY:CA	2.32	0.59
1:AJ:315:ALA:HB1	1:JS:30:SER:N	2.18	0.59
1:DJ:355:TYR:HB3	1:DJ:379:TYR:HB3	1.84	0.59
2:GJ:54:THR:OG1	2:MP:2:TYR:HD1	1.86	0.59
1:KJ:22:LEU:CD2	1:LP:47:GLU:C	2.75	0.59
1:KJ:78:GLU:CG	3:AN:66:ILE:CG2	2.80	0.59
1:LJ:24:ASP:O	1:AS:98:ASN:HB2	2.03	0.59
1:BK:17:SER:CB	1:jR:44:THR:O	2.51	0.59
1:LK:45:MET:HE2	1:KP:16:LYS:N	2.16	0.59
1:IL:259:PHE:CZ	1:ZR:259:PHE:CZ	2.90	0.59
1:LL:172:ARG:HH12	1:LL:277:GLY:H	1.50	0.59
2:cL:45:ILE:HG13	2:cL:46:HIS:CB	2.32	0.59
3:AM:153:ASP:HA	3:AM:156:ILE:HG22	1.85	0.59
5:EN:101:ILE:HA	5:EN:105:ILE:HB	1.84	0.59
3:AO:36:LEU:CB	1:IS:145:LEU:CD1	2.80	0.59
3:AO:112:ILE:HG22	2:LS:51:GLN:NE2	2.18	0.59
5:EO:140:ASP:HB3	5:CO:139:LYS:CG	2.25	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:238:ILE:HA	1:BP:346:ASP:HA	1.84	0.59
1:BQ:22:LEU:CD2	1:gR:47:GLU:CD	2.72	0.59
1:CR:321:VAL:O	1:CR:321:VAL:HG13	2.03	0.59
1:hR:63:LEU:HG	1:hR:63:LEU:O	2.02	0.59
1:CS:209:GLN:HE22	1:CS:235:LEU:HB2	1.68	0.59
1:CS:355:TYR:HB3	1:CS:379:TYR:HB3	1.84	0.59
1:T1:144:THR:H	1:CJ:82:ILE:HD11	1.62	0.59
2:c1:1:MET:H3	1:aR:150:ASN:HD21	1.51	0.59
1:f1:259:PHE:CZ	1:AQ:259:PHE:CZ	2.90	0.59
1:h1:47:GLU:CG	1:QG:22:LEU:HB2	2.31	0.59
4:B2:30:LEU:N	5:EA:64:TRP:CZ2	2.69	0.59
1:A3:259:PHE:CZ	1:g7:259:PHE:CZ	2.90	0.59
1:I3:244:ASP:OD2	1:R8:206:LEU:O	2.21	0.59
1:J3:206:LEU:O	1:Q8:244:ASP:OD2	2.21	0.59
1:Q3:244:ASP:OD2	1:J8:206:LEU:O	2.20	0.59
1:Q3:321:VAL:O	1:Q3:321:VAL:HG13	2.03	0.59
1:b3:315:ALA:HA	1:BD:30:SER:C	2.26	0.59
1:Q4:22:LEU:HB2	1:KL:47:GLU:CG	2.31	0.59
1:i4:374:HIS:CG	2:HD:8:ARG:NH1	2.66	0.59
3:A5:302:TYR:HD2	3:AN:309:SER:HB2	1.65	0.59
4:B5:32:PHE:HE1	5:FO:51:ARG:CG	2.15	0.59
1:C6:152:ALA:HB2	2:HL:15:TYR:HE2	1.67	0.59
1:I6:22:LEU:HB2	1:aR:47:GLU:CG	2.31	0.59
1:Q6:26:ASN:N	1:AJ:100:ASP:OD1	2.35	0.59
1:Q6:31:LYS:O	1:LJ:125:ILE:HD11	2.03	0.59
1:Q6:143:GLN:O	1:LJ:82:ILE:CG2	2.51	0.59
1:Q6:148:ALA:O	2:NJ:15:TYR:CE2	2.56	0.59
1:Y6:244:ASP:OD2	1:LE:206:LEU:O	2.20	0.59
1:g6:143:GLN:O	1:LP:82:ILE:CG2	2.51	0.59
1:g6:148:ALA:O	2:NP:15:TYR:CE2	2.56	0.59
2:H7:15:TYR:HE2	1:I7:152:ALA:HB2	1.67	0.59
1:R7:259:PHE:CZ	1:QQ:259:PHE:CZ	2.90	0.59
1:b7:172:ARG:HH12	1:b7:277:GLY:H	1.51	0.59
1:J8:63:LEU:HG	1:J8:63:LEU:O	2.02	0.59
1:i8:31:LYS:CB	1:BD:314:GLY:O	2.49	0.59
3:AA:104:GLN:OE1	1:AK:360:LEU:HD11	2.02	0.59
3:AB:114:PHE:CD2	2:MD:19:ARG:HG3	2.37	0.59
4:BB:145:ASN:HB3	4:BB:192:THR:H	1.67	0.59
5:EC:96:LEU:HD13	5:FC:104:ILE:HD13	1.83	0.59
1:AD:57:LYS:HA	3:AF:154:ILE:CB	2.27	0.59
1:AD:119:LYS:HD2	1:KK:36:GLY:CA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:189:ARG:NH2	1:LD:215:TYR:OH	2.35	0.59
1:SE:259:PHE:CZ	1:JQ:259:PHE:CZ	2.90	0.59
1:dE:172:ARG:HH12	1:dE:277:GLY:H	1.51	0.59
3:AF:153:ASP:HA	3:AF:156:ILE:HG22	1.85	0.59
5:EF:37:ASP:OD2	3:AO:193:ILE:CG1	2.37	0.59
5:FF:41:ASN:O	5:FF:51:ARG:NH1	2.35	0.59
1:AG:206:LEU:O	1:YL:244:ASP:OD2	2.20	0.59
1:BG:261:ILE:O	1:BG:261:ILE:HG12	2.03	0.59
1:KG:261:ILE:HG12	1:KG:261:ILE:O	2.03	0.59
1:DJ:320:ASP:OD2	1:DJ:323:LYS:NZ	2.36	0.59
1:KJ:57:LYS:HD2	1:LP:143:GLN:OE1	1.88	0.59
1:LJ:33:TRP:CZ3	1:CS:170:GLU:O	2.55	0.59
2:MJ:15:TYR:CE2	1:JS:152:ALA:CB	2.80	0.59
1:CK:25:PHE:O	1:iR:100:ASP:HB2	1.99	0.59
1:DK:74:TRP:HZ2	2:GK:48:LEU:HD22	1.66	0.59
2:HK:8:ARG:HB3	2:HK:12:GLY:HA3	1.83	0.59
1:KK:108:MET:HA	1:KP:368:GLU:HB2	1.83	0.59
1:KK:115:ARG:NH2	1:KK:226:ILE:O	2.34	0.59
1:LK:47:GLU:C	1:KP:22:LEU:CD2	2.75	0.59
1:LK:55:PHE:CZ	1:DP:85:TYR:HB2	2.38	0.59
1:BL:22:LEU:CD2	1:YR:47:GLU:CD	2.72	0.59
2:ML:45:ILE:HG13	2:ML:46:HIS:CB	2.32	0.59
1:YL:54:LEU:HD11	1:QR:116:MET:HE1	0.78	0.59
3:AO:66:ILE:HG22	2:LS:54:THR:O	2.03	0.59
5:NO:185:MET:HE1	5:NO:422:LEU:HD22	1.83	0.59
1:DP:18:ALA:HA	1:DP:23:GLN:HG3	1.85	0.59
1:SQ:170:GLU:HG3	1:SQ:382:LYS:HE2	1.85	0.59
2:ZQ:45:ILE:HG13	2:ZQ:46:HIS:CB	2.32	0.59
1:bQ:208:LEU:HD12	1:bQ:391:ILE:CD1	2.24	0.59
1:dQ:170:GLU:HG3	1:dQ:382:LYS:HE2	1.85	0.59
1:QR:321:VAL:O	1:QR:321:VAL:HG13	2.03	0.59
1:RR:63:LEU:HG	1:RR:63:LEU:O	2.02	0.59
1:R1:375:TRP:CD2	1:CJ:367:PRO:HG2	2.36	0.59
1:R1:383:ALA:HA	1:CJ:34:THR:O	2.03	0.59
1:T1:44:THR:O	1:BJ:17:SER:CB	2.51	0.59
2:W1:9:SER:HB2	1:CS:363:PRO:CG	2.32	0.59
1:X1:116:MET:HE1	1:IR:54:LEU:HD11	0.78	0.59
3:A2:194:ASN:ND2	5:EA:36:ALA:CA	2.66	0.59
4:B2:32:PHE:HE1	5:FA:51:ARG:CG	2.15	0.59
4:B2:33:TYR:HE1	5:EA:57:GLU:CG	2.09	0.59
5:E2:37:ASP:OD2	3:AF:193:ILE:CG1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S3:170:GLU:HG3	1:S3:382:LYS:HE2	1.85	0.59
1:I4:80:ASP:CG	1:QL:145:LEU:HD11	2.28	0.59
1:K4:47:GLU:CG	1:QL:22:LEU:HB2	2.31	0.59
1:K4:261:ILE:O	1:K4:261:ILE:HG12	2.03	0.59
1:R4:259:PHE:CZ	1:g8:259:PHE:CZ	2.90	0.59
1:R4:316:VAL:HG23	1:BS:31:LYS:NZ	2.17	0.59
1:S4:355:TYR:HB3	1:S4:379:TYR:HB3	1.85	0.59
1:f4:321:VAL:O	1:f4:321:VAL:HG13	2.03	0.59
3:A5:204:ALA:O	3:AI:181:SER:OG	2.18	0.59
4:B5:145:ASN:HB3	4:B5:192:THR:H	1.68	0.59
5:O5:274:LEU:O	5:O5:275:ASN:OD1	2.20	0.59
1:I6:47:GLU:CD	1:aR:22:LEU:CD2	2.72	0.59
1:I6:145:LEU:HD11	1:YR:80:ASP:CG	2.28	0.59
1:Y6:71:ARG:HH22	1:LE:210:ASN:HD21	1.43	0.59
1:Y6:80:ASP:CG	1:SE:145:LEU:HD11	2.28	0.59
1:Y6:116:MET:HE1	1:SE:54:LEU:HD11	0.77	0.59
1:h6:210:ASN:HD21	1:AE:71:ARG:HH22	1.43	0.59
1:C7:143:GLN:O	1:LK:82:ILE:CG2	2.51	0.59
1:B7:170:GLU:HG3	1:B7:382:LYS:HE2	1.85	0.59
1:Y7:80:ASP:CG	1:KE:145:LEU:HD11	2.28	0.59
1:a8:261:ILE:O	1:a8:261:ILE:HG12	2.03	0.59
1:g8:30:SER:HA	1:KS:315:ALA:CB	2.33	0.59
4:B9:33:TYR:HE1	5:EC:57:GLU:CG	2.09	0.59
3:AA:113:TYR:CD2	2:MK:7:MET:CG	2.86	0.59
4:BC:145:ASN:HB3	4:BC:192:THR:H	1.67	0.59
1:DD:355:TYR:HB3	1:DD:379:TYR:HB3	1.84	0.59
1:KD:27:HIS:ND1	1:IS:310:THR:C	2.60	0.59
1:LD:24:ASP:O	1:BK:98:ASN:HB2	2.03	0.59
1:BE:81:PHE:CE1	1:CP:140:PHE:CE1	2.89	0.59
1:CE:106:GLU:HA	1:LP:109:LEU:HD11	1.83	0.59
1:NE:172:ARG:HH12	1:NE:277:GLY:H	1.51	0.59
1:TE:259:PHE:CZ	1:IQ:259:PHE:CZ	2.90	0.59
1:SG:355:TYR:HB3	1:SG:379:TYR:HB3	1.85	0.59
1:gG:208:LEU:HD12	1:gG:391:ILE:CD1	2.24	0.59
3:AI:104:GLN:HE21	2:MJ:19:ARG:HG2	1.65	0.59
1:KJ:36:GLY:CA	1:AP:119:LYS:HD2	2.32	0.59
1:AK:188:VAL:HG12	1:AK:392:LEU:HD12	1.85	0.59
1:CK:81:PHE:CZ	1:jR:136:ASN:O	2.53	0.59
1:DK:34:THR:HG22	1:DK:36:GLY:H	1.66	0.59
1:CQ:80:ASP:CG	1:gR:145:LEU:HD11	2.28	0.59
1:RQ:63:LEU:HG	1:RQ:63:LEU:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:aQ:2:TYR:HE2	1:AS:157:LYS:HZ2	1.24	0.59
1:IR:321:VAL:HG13	1:IR:321:VAL:O	2.03	0.59
1:KS:128:LYS:NZ	1:KS:303:TYR:OH	2.35	0.59
1:KS:189:ARG:NH2	1:KS:215:TYR:OH	2.35	0.59
1:A1:63:LEU:HG	1:A1:63:LEU:O	2.02	0.59
1:B1:13:LEU:HD11	1:Y8:45:MET:HE1	1.85	0.59
1:Q1:22:LEU:HB2	1:KG:47:GLU:CG	2.31	0.59
1:Q1:145:LEU:HD11	1:IG:80:ASP:CG	2.28	0.59
1:Z1:170:GLU:HG3	1:Z1:382:LYS:HE2	1.85	0.59
1:a1:172:ARG:HH12	1:a1:277:GLY:H	1.50	0.59
2:m1:25:GLU:OE1	1:CQ:73:ASN:O	1.93	0.59
3:A2:233:GLU:OE1	3:AB:228:ILE:HD12	2.01	0.59
1:D3:172:ARG:HH12	1:D3:277:GLY:H	1.51	0.59
2:H3:15:TYR:HE2	1:C8:152:ALA:HB2	1.67	0.59
1:I3:321:VAL:HG13	1:I3:321:VAL:O	2.03	0.59
2:d3:2:TYR:OH	1:BD:157:LYS:NZ	2.24	0.59
1:B4:170:GLU:HG3	1:B4:382:LYS:HE2	1.85	0.59
1:R4:383:ALA:HA	1:BS:34:THR:O	2.03	0.59
2:U4:15:TYR:HE2	1:BS:133:LEU:HD23	1.67	0.59
1:X4:145:LEU:HD11	1:CR:80:ASP:CG	2.28	0.59
1:X4:152:ALA:HB2	2:hE:15:TYR:HE2	1.67	0.59
1:f4:45:MET:HE1	1:B6:13:LEU:HD11	1.85	0.59
1:h4:261:ILE:O	1:h4:261:ILE:HG12	2.03	0.59
1:i4:27:HIS:CG	1:CD:312:PRO:CD	2.85	0.59
1:i4:29:TYR:HA	1:LD:98:ASN:ND2	2.18	0.59
3:A5:194:ASN:ND2	5:EO:36:ALA:CA	2.66	0.59
5:E5:37:ASP:HB2	3:AH:197:VAL:CB	2.33	0.59
1:A6:63:LEU:HG	1:A6:63:LEU:O	2.02	0.59
1:R6:368:GLU:OE1	1:T6:375:TRP:NE1	2.35	0.59
1:Y6:259:PHE:CZ	1:LE:259:PHE:CZ	2.90	0.59
1:g6:30:SER:HA	1:LP:315:ALA:CB	2.33	0.59
1:i6:261:ILE:HG12	1:i6:261:ILE:O	2.03	0.59
1:j6:172:ARG:HH12	1:j6:277:GLY:H	1.51	0.59
1:C7:27:HIS:CB	1:LK:312:PRO:CG	2.80	0.59
1:B7:44:THR:CB	1:DP:16:LYS:NZ	2.66	0.59
1:D7:172:ARG:HH12	1:D7:277:GLY:H	1.50	0.59
1:I7:145:LEU:HD11	1:gR:80:ASP:CG	2.28	0.59
1:I7:259:PHE:CZ	1:cQ:259:PHE:CZ	2.90	0.59
1:K7:22:LEU:CD2	1:CQ:47:GLU:CD	2.72	0.59
1:Q7:152:ALA:HB2	2:HG:15:TYR:HE2	1.67	0.59
1:Y7:208:LEU:CD1	1:Y7:391:ILE:HD12	1.95	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z7:368:GLU:OE1	1:b7:375:TRP:NE1	2.35	0.59
1:g7:145:LEU:HD11	1:AE:80:ASP:CG	2.28	0.59
1:Y8:116:MET:HE1	1:bQ:54:LEU:HD11	0.78	0.59
1:Y8:321:VAL:O	1:Y8:321:VAL:HG13	2.03	0.59
1:i8:25:PHE:HE1	1:BD:126:VAL:HG12	1.68	0.59
3:A9:32:PHE:CZ	1:AK:135:ASN:O	2.56	0.59
4:B9:32:PHE:HE1	5:FC:51:ARG:CG	2.15	0.59
5:EA:140:ASP:HB2	5:CA:139:LYS:HD2	1.84	0.59
5:EB:37:ASP:HB2	3:AM:197:VAL:CB	2.33	0.59
1:AD:222:SER:C	1:KK:53:TYR:CE1	2.80	0.59
1:AD:315:ALA:CB	1:KK:30:SER:HA	2.33	0.59
1:DD:126:VAL:HG12	1:KS:25:PHE:CE1	1.93	0.59
1:KD:30:SER:HA	1:IS:315:ALA:CB	2.33	0.59
1:LD:55:PHE:CZ	1:DK:85:TYR:HB2	2.38	0.59
1:LD:82:ILE:CG2	1:YG:143:GLN:O	2.51	0.59
1:LD:143:GLN:C	1:DK:82:ILE:HG12	2.18	0.59
2:MD:2:TYR:HD1	2:GK:54:THR:OG1	1.86	0.59
1:CE:100:ASP:HB2	1:CP:26:ASN:O	2.02	0.59
1:FE:374:HIS:NE2	2:HP:8:ARG:CZ	2.66	0.59
1:KE:80:ASP:CG	1:QQ:145:LEU:HD11	2.28	0.59
1:TE:206:LEU:O	1:IQ:244:ASP:OD2	2.21	0.59
1:cE:261:ILE:O	1:cE:261:ILE:HG12	2.03	0.59
4:BF:145:ASN:HB3	4:BF:192:THR:H	1.67	0.59
5:EF:36:ALA:CA	3:AO:194:ASN:ND2	2.66	0.59
5:EF:66:TYR:HB2	5:EM:10:TYR:CZ	2.31	0.59
5:CF:274:LEU:O	5:CF:275:ASN:OD1	2.20	0.59
1:CG:259:PHE:CZ	1:ZL:259:PHE:CZ	2.90	0.59
1:SG:261:ILE:O	1:SG:261:ILE:HG12	2.03	0.59
1:aG:25:PHE:HE1	1:BK:126:VAL:HG12	1.68	0.59
5:EH:140:ASP:O	5:CH:143:LYS:CD	2.50	0.59
1:BJ:238:ILE:HA	1:BJ:346:ASP:HA	1.84	0.59
1:DJ:170:GLU:O	1:LP:33:TRP:CZ3	2.55	0.59
1:KJ:27:HIS:ND1	1:AP:310:THR:C	2.60	0.59
1:LJ:153:LEU:CD1	2:ES:2:TYR:HE2	2.15	0.59
1:DK:357:LYS:HA	2:FK:20:LEU:HB3	1.85	0.59
4:BM:146:ALA:HB3	4:BO:193:VAL:HB	1.83	0.59
3:AN:153:ASP:HA	3:AN:156:ILE:HG22	1.85	0.59
3:AO:153:ASP:HA	3:AO:156:ILE:HG22	1.85	0.59
5:EO:140:ASP:O	5:CO:143:LYS:CD	2.50	0.59
1:KP:115:ARG:NH2	1:KP:226:ILE:O	2.34	0.59
1:BQ:47:GLU:CG	1:gR:22:LEU:HB2	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RR:368:GLU:OE1	1:TR:375:TRP:NE1	2.35	0.59
1:C1:248:SER:OG	1:A6:202:PHE:HD2	1.86	0.59
1:C1:259:PHE:HE1	1:A6:259:PHE:HE1	1.48	0.59
1:A1:202:PHE:HD2	1:C6:248:SER:OG	1.86	0.59
1:J1:111:ARG:CD	1:IG:371:GLU:OE1	2.44	0.59
1:X1:259:PHE:CZ	1:J6:259:PHE:CZ	2.90	0.59
1:g1:206:LEU:O	1:CQ:244:ASP:OD2	2.20	0.59
4:B2:144:GLN:NE2	4:BB:193:VAL:HG12	2.12	0.59
1:C3:244:ASP:OD2	1:h7:206:LEU:O	2.21	0.59
2:E3:44:GLN:OE1	2:E3:44:GLN:HA	2.02	0.59
1:J3:115:ARG:HH22	1:Q8:300:TYR:CA	2.16	0.59
2:a3:2:TYR:OH	1:BK:157:LYS:NZ	2.24	0.59
1:C4:54:LEU:HD11	1:CG:116:MET:HE1	0.78	0.59
1:C4:259:PHE:CZ	1:RG:259:PHE:CZ	2.90	0.59
1:I4:259:PHE:CZ	1:A8:259:PHE:CZ	2.90	0.59
1:J4:63:LEU:HG	1:J4:63:LEU:O	2.02	0.59
1:R4:222:SER:C	1:BS:53:TYR:CD1	2.80	0.59
1:S4:261:ILE:HG12	1:S4:261:ILE:O	2.03	0.59
1:T4:374:HIS:NE2	2:GS:8:ARG:CZ	2.66	0.59
1:X4:259:PHE:CZ	1:Z8:259:PHE:CZ	2.90	0.59
1:Z4:261:ILE:O	1:Z4:261:ILE:HG12	2.03	0.59
1:i4:144:THR:H	1:CD:82:ILE:HD11	1.62	0.59
4:B5:189:ASN:O	4:BI:150:ASP:N	2.34	0.59
5:N5:185:MET:HE1	5:N5:422:LEU:HD22	1.83	0.59
1:I6:80:ASP:CG	1:CL:145:LEU:HD11	2.28	0.59
1:Q6:81:PHE:CZ	1:CS:136:ASN:O	2.56	0.59
1:g6:244:ASP:OD2	1:BE:206:LEU:O	2.21	0.59
1:h6:259:PHE:CZ	1:AE:259:PHE:CZ	2.90	0.59
1:C7:31:LYS:O	1:LK:125:ILE:HD11	2.03	0.59
1:C7:259:PHE:CZ	1:hR:259:PHE:CZ	2.90	0.59
1:I7:259:PHE:HE1	1:cQ:259:PHE:HE1	1.48	0.59
1:R7:368:GLU:OE1	1:T7:375:TRP:NE1	2.35	0.59
2:U7:45:ILE:HG13	2:U7:46:HIS:CB	2.32	0.59
1:Z7:89:TYR:HE1	1:IR:61:THR:CG2	2.16	0.59
1:g7:80:ASP:CG	1:C8:145:LEU:HD11	2.28	0.59
1:i7:261:ILE:HG12	1:i7:261:ILE:O	2.03	0.59
5:E9:37:ASP:HB2	3:AB:197:VAL:CB	2.33	0.59
5:C9:274:LEU:O	5:C9:275:ASN:OD1	2.20	0.59
3:AA:194:ASN:ND2	5:EH:36:ALA:CA	2.66	0.59
3:AA:209:MET:CA	4:BH:250:ILE:HD12	2.26	0.59
4:BA:189:ASN:O	4:BC:150:ASP:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:153:ASP:HA	3:AB:156:ILE:HG22	1.85	0.59
5:EB:36:ALA:HA	3:AM:194:ASN:ND2	2.17	0.59
1:AD:174:MET:CA	1:KK:33:TRP:CE2	2.83	0.59
1:CD:58:ILE:HG21	1:YG:57:LYS:CD	2.32	0.59
2:FD:2:TYR:HE2	1:KS:153:LEU:CD1	2.15	0.59
2:GD:31:SER:HB3	2:MD:45:ILE:HD11	1.85	0.59
1:CE:170:GLU:HG3	1:CE:382:LYS:HE2	1.85	0.59
1:FE:172:ARG:HH12	1:FE:277:GLY:H	1.51	0.59
1:aE:259:PHE:CZ	1:AR:259:PHE:CZ	2.90	0.59
1:cE:355:TYR:HB3	1:cE:379:TYR:HB3	1.85	0.59
3:AF:39:LEU:O	3:AF:63:ARG:NH1	2.36	0.59
1:CG:46:PHE:CD1	1:ZL:85:TYR:CE2	2.91	0.59
1:CG:321:VAL:O	1:CG:321:VAL:HG13	2.02	0.59
3:AH:39:LEU:O	3:AH:63:ARG:NH1	2.36	0.59
5:FI:51:ARG:CG	4:BN:32:PHE:HE1	2.15	0.59
1:BJ:54:LEU:HD11	1:gL:116:MET:HE1	1.82	0.59
1:BJ:98:ASN:HB2	1:LP:24:ASP:O	2.03	0.59
2:HJ:40:SER:N	1:LJ:263:GLY:O	2.31	0.59
1:KJ:29:TYR:CE2	1:AP:297:LEU:HD11	2.38	0.59
1:LJ:31:LYS:CG	1:CS:315:ALA:N	2.57	0.59
2:HK:8:ARG:CZ	1:jR:374:HIS:NE2	2.66	0.59
1:KK:106:GLU:HA	1:DP:109:LEU:CD1	1.92	0.59
1:KK:107:LEU:CB	1:KP:369:PHE:HZ	2.13	0.59
1:CL:116:MET:HE1	1:YR:54:LEU:HD11	0.78	0.59
1:RL:210:ASN:HD21	1:QR:71:ARG:HH22	1.43	0.59
4:BM:145:ASN:HB3	4:BM:192:THR:H	1.68	0.59
5:EM:46:TYR:CD2	4:BO:6:MET:HB2	2.37	0.59
5:EM:96:LEU:HD13	5:FM:104:ILE:HD13	1.83	0.59
3:AN:39:LEU:O	3:AN:63:ARG:NH1	2.36	0.59
3:AO:39:LEU:O	3:AO:63:ARG:NH1	2.36	0.59
3:AO:64:GLN:CG	1:IS:149:THR:C	2.45	0.59
5:CO:274:LEU:O	5:CO:275:ASN:OD1	2.20	0.59
1:DP:320:ASP:OD2	1:DP:323:LYS:NZ	2.36	0.59
1:LQ:172:ARG:HH12	1:LQ:277:GLY:H	1.51	0.59
1:C1:71:ARG:HH22	1:A6:210:ASN:HD21	1.43	0.58
1:C1:259:PHE:CZ	1:A6:259:PHE:CZ	2.90	0.58
1:A1:259:PHE:CZ	1:C6:259:PHE:CZ	2.90	0.58
1:D1:172:ARG:HH12	1:D1:277:GLY:H	1.51	0.58
1:I1:46:PHE:CD1	1:JG:85:TYR:CE2	2.91	0.58
1:I1:145:LEU:HD11	1:SE:80:ASP:CG	2.28	0.58
1:I1:152:ALA:HB2	2:PQ:15:TYR:HE2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:255:ILE:HG23	1:I1:261:ILE:HG12	1.86	0.58
1:J1:259:PHE:CZ	1:IG:259:PHE:CZ	2.90	0.58
1:S1:100:ASP:HB2	1:CJ:26:ASN:O	2.03	0.58
1:Y1:202:PHE:HD2	1:I6:248:SER:OG	1.86	0.58
3:A2:209:MET:CA	4:BA:250:ILE:HD12	2.26	0.58
5:N2:274:LEU:O	5:N2:275:ASN:OD1	2.20	0.58
1:I3:300:TYR:CA	1:R8:115:ARG:HH22	2.16	0.58
1:J3:63:LEU:HG	1:J3:63:LEU:O	2.02	0.58
1:J3:368:GLU:OE1	1:L3:375:TRP:NE1	2.35	0.58
1:C4:300:TYR:CA	1:RG:115:ARG:HH22	2.16	0.58
1:B4:13:LEU:HD11	1:aE:45:MET:HE1	1.85	0.58
2:M4:45:ILE:HG13	2:M4:46:HIS:CB	2.32	0.58
1:R4:115:ARG:HH22	1:g8:300:TYR:CA	2.16	0.58
1:T4:139:ARG:HB2	1:BS:81:PHE:CE2	2.37	0.58
1:X4:206:LEU:HD11	1:Z4:244:ASP:OD1	2.03	0.58
1:Y4:85:TYR:CE2	1:Y8:46:PHE:CD1	2.91	0.58
1:f4:46:PHE:CD1	1:ZG:85:TYR:CE2	2.91	0.58
1:g4:259:PHE:CZ	1:YG:259:PHE:CZ	2.90	0.58
1:g4:259:PHE:N	1:g4:259:PHE:CD2	2.71	0.58
1:h4:13:LEU:HD11	1:gG:45:MET:HE1	1.85	0.58
1:I6:45:MET:HE1	1:aR:13:LEU:HD11	1.85	0.58
1:Q6:57:LYS:CD	1:CJ:58:ILE:HG21	2.32	0.58
1:Z6:206:LEU:O	1:KE:244:ASP:OD2	2.21	0.58
1:Z6:259:PHE:N	1:Z6:259:PHE:CD2	2.71	0.58
1:a6:170:GLU:HG3	1:a6:382:LYS:HE2	1.85	0.58
1:b6:172:ARG:HH12	1:b6:277:GLY:H	1.51	0.58
1:g6:81:PHE:CZ	1:DJ:136:ASN:O	2.56	0.58
1:h6:63:LEU:HG	1:h6:63:LEU:O	2.02	0.58
1:h6:259:PHE:N	1:h6:259:PHE:CD2	2.71	0.58
1:C7:81:PHE:CZ	1:DP:136:ASN:O	2.56	0.58
1:C7:81:PHE:O	1:DP:139:ARG:HD3	2.03	0.58
1:A7:202:PHE:HD2	1:gR:248:SER:OG	1.86	0.58
1:I7:248:SER:OG	1:cQ:202:PHE:HD2	1.86	0.58
1:C8:255:ILE:HG23	1:C8:261:ILE:HG12	1.86	0.58
1:Q8:321:VAL:O	1:Q8:321:VAL:HG13	2.03	0.58
1:Z8:259:PHE:N	1:Z8:259:PHE:CD2	2.71	0.58
1:g8:57:LYS:CD	1:BS:58:ILE:HG21	2.32	0.58
1:g8:316:VAL:CA	1:DD:31:LYS:NZ	2.38	0.58
1:i8:170:GLU:HG3	1:i8:382:LYS:HE2	1.85	0.58
5:E9:10:TYR:HH	5:EA:66:TYR:HB2	1.64	0.58
5:E9:101:ILE:HA	5:E9:105:ILE:HB	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CA:248:GLN:O	5:NC:230:SER:OG	2.19	0.58
3:AB:114:PHE:CD1	2:MD:19:ARG:O	2.56	0.58
5:CB:185:MET:HE1	5:CB:422:LEU:HD22	1.83	0.58
3:AC:194:ASN:ND2	5:EN:36:ALA:CA	2.66	0.58
1:AD:297:LEU:HD11	1:KK:29:TYR:CE2	2.38	0.58
1:DD:209:GLN:HE22	1:DD:235:LEU:HB2	1.68	0.58
2:ND:15:TYR:CE2	1:YG:148:ALA:O	2.56	0.58
1:LE:259:PHE:N	1:LE:259:PHE:CD2	2.71	0.58
1:ME:261:ILE:O	1:ME:261:ILE:HG12	2.03	0.58
1:SE:206:LEU:HD11	1:UE:244:ASP:OD1	2.03	0.58
1:UE:261:ILE:O	1:UE:261:ILE:HG12	2.03	0.58
1:aE:46:PHE:CD1	1:AR:85:TYR:CE2	2.91	0.58
1:CG:244:ASP:OD2	1:ZL:206:LEU:O	2.21	0.58
1:CG:300:TYR:CA	1:ZL:115:ARG:HH22	2.16	0.58
1:AG:89:TYR:HE1	1:YL:61:THR:CG2	2.16	0.58
1:AG:368:GLU:OE1	1:DG:375:TRP:NE1	2.35	0.58
1:JG:63:LEU:HG	1:JG:63:LEU:O	2.02	0.58
1:YG:206:LEU:HD11	1:aG:244:ASP:OD1	2.03	0.58
1:ZG:259:PHE:N	1:ZG:259:PHE:CD2	2.71	0.58
1:aG:261:ILE:HG12	1:aG:261:ILE:O	2.03	0.58
1:gG:248:SER:OG	1:AL:202:PHE:HD2	1.86	0.58
1:hG:202:PHE:HD2	1:CL:248:SER:OG	1.86	0.58
1:hG:259:PHE:CZ	1:CL:259:PHE:CZ	2.90	0.58
1:BJ:32:SER:HB2	1:gL:170:GLU:OE2	2.02	0.58
1:BJ:186:THR:HG21	1:BJ:214:LYS:HD2	1.85	0.58
1:KJ:99:MET:HE1	1:JS:136:ASN:ND2	2.14	0.58
1:AK:297:LEU:HD11	1:KP:29:TYR:CE2	2.38	0.58
1:DK:18:ALA:HA	1:DK:23:GLN:HG3	1.84	0.58
1:JL:206:LEU:O	1:YR:244:ASP:OD2	2.20	0.58
1:YL:321:VAL:O	1:YL:321:VAL:HG13	2.03	0.58
5:FN:41:ASN:O	5:FN:51:ARG:NH1	2.35	0.58
1:LP:189:ARG:NH2	1:LP:215:TYR:OH	2.35	0.58
1:BQ:261:ILE:O	1:BQ:261:ILE:HG12	2.03	0.58
1:QQ:321:VAL:O	1:QQ:321:VAL:HG13	2.02	0.58
1:YQ:118:THR:HG21	1:AS:54:LEU:HD23	1.83	0.58
1:IR:208:LEU:HD12	1:IR:391:ILE:CD1	2.24	0.58
1:YR:321:VAL:HG13	1:YR:321:VAL:O	2.03	0.58
1:CS:320:ASP:OD2	1:CS:323:LYS:NZ	2.36	0.58
1:A1:210:ASN:HD21	1:C6:71:ARG:HH22	1.43	0.58
1:A1:259:PHE:HE1	1:C6:259:PHE:HE1	1.48	0.58
1:S1:13:LEU:HD11	1:Q8:45:MET:HE1	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g1:85:TYR:CE2	1:CQ:46:PHE:CD1	2.91	0.58
1:h1:355:TYR:HB3	1:h1:379:TYR:HB3	1.85	0.58
5:E2:46:TYR:CD2	4:BB:6:MET:HB2	2.37	0.58
1:I3:45:MET:HE1	1:SL:13:LEU:HD11	1.85	0.58
1:Q3:45:MET:HE1	1:Z4:13:LEU:HD11	1.85	0.58
1:R3:89:TYR:HE1	1:I8:61:THR:CG2	2.16	0.58
1:R3:202:PHE:HD2	1:I8:248:SER:OG	1.86	0.58
1:R3:206:LEU:O	1:I8:244:ASP:OD2	2.21	0.58
1:R3:259:PHE:N	1:R3:259:PHE:CD2	2.71	0.58
1:S3:261:ILE:HG12	1:S3:261:ILE:O	2.03	0.58
1:Y3:118:THR:HG21	1:BK:54:LEU:HD23	1.83	0.58
1:C4:255:ILE:HG23	1:C4:261:ILE:HG12	1.85	0.58
1:A4:259:PHE:CD2	1:A4:259:PHE:N	2.71	0.58
1:I4:46:PHE:CD1	1:A8:85:TYR:CE2	2.91	0.58
1:J4:85:TYR:CE2	1:C8:46:PHE:CD1	2.91	0.58
1:L4:172:ARG:HH12	1:L4:277:GLY:H	1.51	0.58
1:T4:44:THR:O	1:AS:17:SER:CB	2.51	0.58
2:W4:54:THR:HG21	2:MS:1:MET:CE	2.25	0.58
1:Y4:202:PHE:HD2	1:Y8:248:SER:OG	1.86	0.58
1:Y4:259:PHE:N	1:Y4:259:PHE:CD2	2.71	0.58
1:f4:255:ILE:HG23	1:f4:261:ILE:HG12	1.85	0.58
1:g4:316:VAL:HG23	1:CD:31:LYS:NZ	2.17	0.58
3:A5:39:LEU:O	3:A5:63:ARG:NH1	2.36	0.58
3:A5:155:GLU:OE1	1:AJ:139:ARG:HB2	2.02	0.58
3:A5:197:VAL:CB	5:EO:37:ASP:HB2	2.33	0.58
5:C5:248:GLN:O	5:NI:230:SER:OG	2.19	0.58
1:K6:170:GLU:HG3	1:K6:382:LYS:HE2	1.85	0.58
1:Q6:81:PHE:O	1:CS:139:ARG:HD3	2.04	0.58
1:g6:133:LEU:CD1	2:NP:11:MET:CB	2.80	0.58
1:i6:44:THR:CB	1:DJ:16:LYS:NZ	2.66	0.58
1:C7:244:ASP:OD2	1:hR:206:LEU:O	2.21	0.58
1:I7:71:ARG:NH2	1:cQ:210:ASN:ND2	2.29	0.58
1:I7:244:ASP:OD2	1:cQ:206:LEU:O	2.20	0.58
1:J7:202:PHE:HD2	1:bQ:248:SER:OG	1.86	0.58
1:Q7:45:MET:HE1	1:aL:13:LEU:HD11	1.85	0.58
1:a7:170:GLU:HG3	1:a7:382:LYS:HE2	1.85	0.58
1:g7:206:LEU:HD11	1:i7:244:ASP:OD1	2.03	0.58
1:h7:63:LEU:HG	1:h7:63:LEU:O	2.02	0.58
1:K8:355:TYR:HB3	1:K8:379:TYR:HB3	1.85	0.58
1:Y8:255:ILE:HG23	1:Y8:261:ILE:HG12	1.85	0.58
1:a8:13:LEU:HD11	1:bQ:45:MET:HE1	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:255:ILE:HG23	1:g8:261:ILE:HG12	1.85	0.58
1:h8:259:PHE:N	1:h8:259:PHE:CD2	2.71	0.58
3:A9:10:VAL:HG22	5:DC:44:SER:HB3	1.84	0.58
3:A9:152:SER:H	1:AK:143:GLN:C	2.11	0.58
5:O9:274:LEU:O	5:O9:275:ASN:OD1	2.20	0.58
3:AA:153:ASP:HA	3:AA:156:ILE:HG22	1.85	0.58
4:BA:6:MET:HB2	5:EC:46:TYR:CD2	2.37	0.58
4:BB:150:ASP:N	4:BF:189:ASN:O	2.34	0.58
4:BC:193:VAL:HG12	4:BH:144:GLN:NE2	2.13	0.58
1:AD:173:ALA:CB	1:KK:33:TRP:CH2	2.86	0.58
1:BD:98:ASN:HB2	1:KS:24:ASP:O	2.03	0.58
1:BD:99:MET:O	1:KS:25:PHE:HD1	1.85	0.58
2:GD:54:THR:OG1	2:LS:2:TYR:CG	2.56	0.58
1:KD:22:LEU:CD2	1:KS:47:GLU:C	2.75	0.58
1:KD:29:TYR:CE2	1:IS:297:LEU:HD11	2.38	0.58
1:KD:53:TYR:O	1:IS:118:THR:CG2	2.45	0.58
1:KD:105:GLU:O	1:DK:109:LEU:HD12	1.90	0.58
1:BE:259:PHE:N	1:BE:259:PHE:CD2	2.71	0.58
1:FE:374:HIS:CG	2:HP:8:ARG:NH1	2.66	0.58
2:HE:11:MET:HG3	1:CP:133:LEU:HD22	1.84	0.58
1:NE:325:LYS:HB2	1:NE:325:LYS:HZ1	1.66	0.58
2:RE:15:TYR:HE2	1:SE:152:ALA:HB2	1.67	0.58
1:aE:152:ALA:HB2	2:XG:15:TYR:HE2	1.67	0.58
5:EF:64:TRP:CZ2	4:BO:30:LEU:N	2.69	0.58
5:OF:274:LEU:O	5:OF:275:ASN:OD1	2.20	0.58
1:AG:85:TYR:CE2	1:YL:46:PHE:CD1	2.91	0.58
1:BG:170:GLU:HG3	1:BG:382:LYS:HE2	1.85	0.58
1:LG:172:ARG:HH12	1:LG:277:GLY:H	1.51	0.58
5:NI:274:LEU:O	5:NI:275:ASN:OD1	2.20	0.58
1:AJ:119:LYS:HD2	1:JS:36:GLY:HA3	1.85	0.58
1:AJ:310:THR:C	1:JS:27:HIS:ND1	2.60	0.58
2:MJ:2:TYR:CG	2:FS:54:THR:OG1	2.56	0.58
1:AK:80:ASP:O	1:KP:145:LEU:CD1	2.48	0.58
1:AK:173:ALA:CB	1:KP:33:TRP:CH2	2.86	0.58
1:AK:315:ALA:HB1	1:KP:30:SER:N	2.18	0.58
1:CK:129:GLN:NE2	1:CK:159:LYS:O	2.37	0.58
1:CK:136:ASN:O	1:hR:81:PHE:HZ	1.84	0.58
2:NK:2:TYR:HB2	2:mR:55:GLY:CA	2.32	0.58
1:JL:85:TYR:CE2	1:YR:46:PHE:CD1	2.91	0.58
1:KL:355:TYR:HB3	1:KL:379:TYR:HB3	1.85	0.58
1:QL:259:PHE:CZ	1:RR:259:PHE:CZ	2.90	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hL:45:ILE:HG13	2:hL:46:HIS:CB	2.32	0.58
5:OM:274:LEU:O	5:OM:275:ASN:OD1	2.20	0.58
4:BO:125:GLN:HE22	4:BO:127:PHE:HB2	1.66	0.58
1:BP:186:THR:HG21	1:BP:214:LYS:HD2	1.85	0.58
1:BQ:13:LEU:HD11	1:gR:45:MET:HE1	1.85	0.58
2:MQ:44:GLN:HA	2:MQ:44:GLN:OE1	2.02	0.58
1:cQ:63:LEU:HG	1:cQ:63:LEU:O	2.02	0.58
1:AR:259:PHE:N	1:AR:259:PHE:CD2	2.71	0.58
1:JR:368:GLU:OE1	1:LR:375:TRP:NE1	2.35	0.58
1:aR:261:ILE:HG12	1:aR:261:ILE:O	2.03	0.58
1:jR:172:ARG:HH12	1:jR:277:GLY:H	1.51	0.58
1:J1:85:TYR:CE2	1:IG:46:PHE:CD1	2.91	0.58
1:K1:13:LEU:HD11	1:Y6:45:MET:HE1	1.85	0.58
1:Q1:46:PHE:CD1	1:R6:85:TYR:CE2	2.91	0.58
1:Q1:206:LEU:HD11	1:S1:244:ASP:OD1	2.03	0.58
1:R1:210:ASN:HD21	1:Q6:71:ARG:HH22	1.43	0.58
1:R1:368:GLU:OE1	1:T1:375:TRP:NE1	2.35	0.58
1:R1:382:LYS:HG3	1:CJ:32:SER:O	2.03	0.58
1:T1:47:GLU:CD	1:BJ:22:LEU:HD22	2.27	0.58
1:X1:145:LEU:HD11	1:I8:80:ASP:CG	2.28	0.58
1:X1:244:ASP:OD2	1:J6:206:LEU:O	2.21	0.58
1:f1:80:ASP:CG	1:QG:145:LEU:HD11	2.28	0.58
5:E2:140:ASP:OD2	5:C2:139:LYS:HE2	1.99	0.58
1:I3:145:LEU:HD11	1:QL:80:ASP:CG	2.28	0.58
1:Q3:46:PHE:CD1	1:J8:85:TYR:CE2	2.91	0.58
1:S3:13:LEU:HD11	1:CR:45:MET:HE1	1.85	0.58
1:C4:46:PHE:CD1	1:RG:85:TYR:CE2	2.91	0.58
1:C4:62:LEU:HD11	2:XG:53:PHE:O	2.03	0.58
1:C4:80:ASP:CG	1:aE:145:LEU:HD11	2.28	0.58
1:A4:63:LEU:O	1:A4:63:LEU:HG	2.02	0.58
1:D4:172:ARG:HH12	1:D4:277:GLY:H	1.51	0.58
1:R4:85:TYR:CE2	1:g8:46:PHE:CD1	2.91	0.58
1:f4:248:SER:OG	1:ZG:202:PHE:HD2	1.86	0.58
1:g4:81:PHE:HZ	1:CD:136:ASN:O	1.84	0.58
5:E5:101:ILE:HA	5:E5:105:ILE:HB	1.84	0.58
1:D6:172:ARG:HH12	1:D6:277:GLY:H	1.51	0.58
1:L6:172:ARG:HH12	1:L6:277:GLY:H	1.51	0.58
1:Q6:30:SER:HA	1:LJ:315:ALA:CB	2.33	0.58
1:a6:261:ILE:O	1:a6:261:ILE:HG12	2.03	0.58
2:n6:15:TYR:HE2	1:g7:152:ALA:HB2	1.67	0.58
1:C7:80:ASP:OD2	1:DP:145:LEU:CD2	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q7:80:ASP:CG	1:QR:145:LEU:HD11	2.28	0.58
1:R7:202:PHE:HD2	1:QQ:248:SER:OG	1.86	0.58
1:a7:13:LEU:HD11	1:KE:45:MET:HE1	1.85	0.58
1:h7:259:PHE:N	1:h7:259:PHE:CD2	2.71	0.58
1:B8:13:LEU:HD11	1:AE:45:MET:HE1	1.85	0.58
1:K8:261:ILE:O	1:K8:261:ILE:HG12	2.03	0.58
1:Q8:206:LEU:HD11	1:S8:244:ASP:OD1	2.03	0.58
1:R8:63:LEU:HG	1:R8:63:LEU:O	2.02	0.58
1:R8:368:GLU:OE1	1:T8:375:TRP:NE1	2.35	0.58
1:Z8:63:LEU:HG	1:Z8:63:LEU:O	2.02	0.58
1:g8:133:LEU:CD1	2:MS:11:MET:CB	2.80	0.58
5:D9:44:SER:HB3	3:AB:10:VAL:HG22	1.85	0.58
3:AA:197:VAL:CB	5:EH:37:ASP:HB2	2.33	0.58
4:BC:32:PHE:HE1	5:FN:51:ARG:CG	2.15	0.58
1:LD:315:ALA:CB	1:YG:30:SER:HA	2.33	0.58
1:LD:369:PHE:HD2	1:BK:108:MET:CE	2.02	0.58
1:CE:100:ASP:HB2	1:CP:25:PHE:O	1.99	0.58
1:LE:63:LEU:O	1:LE:63:LEU:HG	2.02	0.58
1:ME:13:LEU:HD11	1:QQ:45:MET:HE1	1.85	0.58
5:EF:55:LEU:HD21	5:EM:21:ILE:HG23	1.76	0.58
5:EF:101:ILE:HA	5:EF:105:ILE:HB	1.84	0.58
1:AG:259:PHE:N	1:AG:259:PHE:CD2	2.71	0.58
2:MG:45:ILE:HG13	2:MG:46:HIS:CB	2.32	0.58
1:hG:206:LEU:O	1:CL:244:ASP:OD2	2.20	0.58
5:EH:140:ASP:HB2	5:CH:139:LYS:HD2	1.84	0.58
5:FI:41:ASN:CG	4:BN:38:GLN:NE2	2.51	0.58
1:CK:26:ASN:O	1:iR:100:ASP:HB2	2.03	0.58
1:LK:24:ASP:O	1:BP:98:ASN:HB2	2.03	0.58
1:LK:98:ASN:ND2	1:jR:29:TYR:HA	2.18	0.58
1:LK:143:GLN:C	1:DP:82:ILE:HG12	2.18	0.58
1:QL:206:LEU:HD11	1:SL:244:ASP:OD1	2.03	0.58
1:YL:145:LEU:HD11	1:QR:80:ASP:CG	2.28	0.58
1:ZL:63:LEU:HG	1:ZL:63:LEU:O	2.02	0.58
5:NN:274:LEU:O	5:NN:275:ASN:OD1	2.20	0.58
1:DP:355:TYR:HB3	1:DP:379:TYR:HB3	1.84	0.58
2:HP:40:SER:N	1:LP:263:GLY:O	2.31	0.58
1:CQ:116:MET:HE1	1:gR:54:LEU:HD11	0.78	0.58
1:CQ:321:VAL:O	1:CQ:321:VAL:HG13	2.03	0.58
1:KQ:170:GLU:HG3	1:KQ:382:LYS:HE2	1.85	0.58
1:QQ:255:ILE:HG23	1:QQ:261:ILE:HG12	1.85	0.58
1:BR:355:TYR:HB3	1:BR:379:TYR:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KR:261:ILE:HG12	1:KR:261:ILE:O	2.03	0.58
1:TR:172:ARG:HH12	1:TR:277:GLY:H	1.51	0.58
1:hR:259:PHE:N	1:hR:259:PHE:CD2	2.71	0.58
1:iR:170:GLU:HG3	1:iR:382:LYS:HE2	1.85	0.58
1:BS:184:SER:H	1:BS:220:ARG:HH22	1.50	0.58
1:CS:265:ASP:OD2	2:FS:41:TYR:CD1	2.57	0.58
1:Q1:71:ARG:HH22	1:R6:210:ASN:HD21	1.43	0.58
1:Q1:80:ASP:CG	1:Q8:145:LEU:HD11	2.28	0.58
1:Q1:259:PHE:CZ	1:R6:259:PHE:CZ	2.90	0.58
1:f1:145:LEU:HD11	1:C3:80:ASP:CG	2.28	0.58
1:h1:13:LEU:HD11	1:QG:45:MET:HE1	1.85	0.58
5:C2:274:LEU:O	5:C2:275:ASN:OD1	2.20	0.58
1:I3:206:LEU:HD11	1:K3:244:ASP:OD1	2.03	0.58
1:I4:371:GLU:OE1	1:A8:111:ARG:CD	2.44	0.58
1:Q4:145:LEU:HD11	1:IL:80:ASP:CG	2.28	0.58
1:S4:100:ASP:HB2	1:BS:26:ASN:O	2.03	0.58
1:T4:368:GLU:HG2	1:KS:107:LEU:HD11	1.86	0.58
1:Z4:170:GLU:HG3	1:Z4:382:LYS:HE2	1.85	0.58
1:g4:63:LEU:O	1:g4:63:LEU:HG	2.02	0.58
1:g4:106:GLU:N	1:BK:109:LEU:HD12	2.18	0.58
3:A5:10:VAL:HG22	5:DO:44:SER:HB3	1.85	0.58
5:E5:36:ALA:CA	3:AH:194:ASN:ND2	2.66	0.58
5:E5:46:TYR:CD2	4:BN:6:MET:HB2	2.37	0.58
1:J6:259:PHE:N	1:J6:259:PHE:CD2	2.71	0.58
1:Z6:85:TYR:CE2	1:KE:46:PHE:CD1	2.91	0.58
1:g6:31:LYS:O	1:LP:125:ILE:HD11	2.03	0.58
1:i6:355:TYR:HB3	1:i6:379:TYR:HB3	1.85	0.58
1:C7:30:SER:HA	1:LK:315:ALA:CB	2.33	0.58
1:C7:367:PRO:CD	1:LK:375:TRP:CZ3	2.82	0.58
1:Q7:244:ASP:OD2	1:RQ:206:LEU:O	2.20	0.58
1:R7:111:ARG:CD	1:QQ:371:GLU:OE1	2.44	0.58
1:Y7:46:PHE:CD1	1:JR:85:TYR:CE2	2.91	0.58
1:Y7:145:LEU:HD11	1:QQ:80:ASP:CG	2.28	0.58
1:g7:321:VAL:HG13	1:g7:321:VAL:O	2.03	0.58
1:T8:172:ARG:HH12	1:T8:277:GLY:H	1.51	0.58
2:c8:45:ILE:HG13	2:c8:46:HIS:CB	2.32	0.58
1:h8:63:LEU:HG	1:h8:63:LEU:O	2.02	0.58
4:B9:250:ILE:HD12	3:AB:209:MET:CA	2.26	0.58
3:AA:39:LEU:O	3:AA:63:ARG:NH1	2.36	0.58
3:AB:39:LEU:O	3:AB:63:ARG:NH1	2.36	0.58
3:AB:114:PHE:CB	1:AD:360:LEU:CD2	2.77	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:85:TYR:HB2	1:KS:55:PHE:CZ	2.38	0.58
1:DD:357:LYS:HA	2:FD:20:LEU:HB3	1.85	0.58
1:KD:61:THR:HG23	1:KS:57:LYS:HE2	1.69	0.58
1:LD:223:GLY:HA2	1:YG:53:TYR:CZ	2.38	0.58
1:BE:123:ASN:HD22	1:CP:21:ALA:CB	2.03	0.58
1:FE:29:TYR:HA	1:LP:98:ASN:ND2	2.18	0.58
1:FE:51:ASN:HD22	1:CP:116:MET:HE3	1.57	0.58
1:FE:136:ASN:O	1:CP:81:PHE:CZ	2.53	0.58
1:KE:321:VAL:O	1:KE:321:VAL:HG13	2.03	0.58
1:SE:321:VAL:O	1:SE:321:VAL:HG13	2.03	0.58
1:TE:63:LEU:HG	1:TE:63:LEU:O	2.02	0.58
1:TE:259:PHE:N	1:TE:259:PHE:CD2	2.71	0.58
1:bE:89:TYR:HE1	1:CR:61:THR:CG2	2.16	0.58
1:cE:13:LEU:HD11	1:CG:45:MET:HE1	1.85	0.58
5:DF:44:SER:HB3	3:AO:10:VAL:HG22	1.84	0.58
1:aG:170:GLU:HG3	1:aG:382:LYS:HE2	1.85	0.58
1:hG:63:LEU:HG	1:hG:63:LEU:O	2.02	0.58
1:hG:259:PHE:HE1	1:CL:259:PHE:HE1	1.48	0.58
3:AI:194:ASN:ND2	5:EM:36:ALA:CA	2.66	0.58
1:AJ:173:ALA:CB	1:JS:33:TRP:CH2	2.86	0.58
1:DJ:222:SER:CB	1:LP:39:TRP:O	2.52	0.58
1:KJ:33:TRP:HZ3	1:AP:170:GLU:HG2	1.69	0.58
1:LK:238:ILE:HA	1:LK:346:ASP:HA	1.86	0.58
1:IL:145:LEU:HD11	1:IQ:80:ASP:CG	2.28	0.58
1:QL:46:PHE:CD1	1:RR:85:TYR:CE2	2.91	0.58
1:RL:368:GLU:OE1	1:TL:375:TRP:NE1	2.35	0.58
1:YL:206:LEU:HD11	1:aL:244:ASP:OD1	2.03	0.58
1:bL:172:ARG:HH12	1:bL:277:GLY:H	1.51	0.58
1:CP:184:SER:H	1:CP:220:ARG:HH22	1.50	0.58
1:DP:153:LEU:HD11	2:mR:5:ASN:N	2.12	0.58
1:DP:209:GLN:HE22	1:DP:235:LEU:HB2	1.68	0.58
1:DP:357:LYS:HA	2:FP:20:LEU:HB3	1.85	0.58
1:eQ:325:LYS:HB2	1:eQ:325:LYS:HZ2	1.64	0.58
1:CR:208:LEU:HD12	1:CR:391:ILE:CD1	2.24	0.58
1:BR:261:ILE:O	1:BR:261:ILE:HG12	2.03	0.58
1:SR:261:ILE:O	1:SR:261:ILE:HG12	2.03	0.58
1:TR:179:SER:HG	1:TR:341:TYR:HH	1.51	0.58
1:aR:170:GLU:HG3	1:aR:382:LYS:HE2	1.85	0.58
1:gR:321:VAL:O	1:gR:321:VAL:HG13	2.03	0.58
1:JS:261:ILE:HG21	1:JS:265:ASP:OD2	2.04	0.58
1:I1:244:ASP:OD2	1:JG:206:LEU:O	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R1:115:ARG:HH22	1:Q6:300:TYR:CA	2.16	0.58
1:R1:222:SER:N	1:CJ:38:LYS:HD2	2.06	0.58
1:T1:29:TYR:HA	1:LJ:98:ASN:ND2	2.18	0.58
1:Y1:206:LEU:O	1:I6:244:ASP:OD2	2.20	0.58
5:E2:37:ASP:HB2	3:AF:197:VAL:CB	2.33	0.58
1:C3:208:LEU:HD12	1:C3:391:ILE:CD1	2.24	0.58
1:B3:170:GLU:HG3	1:B3:382:LYS:HE2	1.85	0.58
1:Q3:206:LEU:HD11	1:S3:244:ASP:OD1	2.03	0.58
1:Y3:172:ARG:HH12	1:Y3:277:GLY:H	1.51	0.58
1:B4:137:ASP:HB3	1:aE:50:VAL:HG23	1.86	0.58
1:I4:116:MET:HE1	1:QL:54:LEU:HD11	0.78	0.58
1:Q4:45:MET:HE1	1:KL:13:LEU:HD11	1.85	0.58
2:W4:53:PHE:O	1:g8:62:LEU:HD11	2.03	0.58
1:X4:248:SER:OG	1:Z8:202:PHE:HD2	1.86	0.58
1:f4:208:LEU:HD12	1:f4:391:ILE:CD1	2.24	0.58
1:g4:202:PHE:HD2	1:YG:248:SER:OG	1.86	0.58
1:g4:383:ALA:HA	1:CD:34:THR:O	2.03	0.58
1:h4:100:ASP:HB2	1:CD:26:ASN:O	2.02	0.58
1:I6:255:ILE:HG23	1:I6:261:ILE:HG12	1.86	0.58
1:I6:321:VAL:O	1:I6:321:VAL:HG13	2.03	0.58
1:Q6:81:PHE:CE2	1:CS:139:ARG:HB2	2.39	0.58
1:T6:172:ARG:HH12	1:T6:277:GLY:H	1.51	0.58
1:g6:46:PHE:CD1	1:BE:85:TYR:CE2	2.91	0.58
1:g6:139:ARG:NH1	1:LP:81:PHE:HD2	1.52	0.58
1:g6:321:VAL:O	1:g6:321:VAL:HG13	2.03	0.58
1:h6:202:PHE:HD2	1:AE:248:SER:OG	1.86	0.58
1:i6:16:LYS:O	1:DJ:45:MET:HE2	1.87	0.58
1:i6:47:GLU:CG	1:DJ:22:LEU:CB	2.82	0.58
1:K7:170:GLU:HG3	1:K7:382:LYS:HE2	1.85	0.58
1:Y7:45:MET:HE1	1:SQ:13:LEU:HD11	1.85	0.58
1:Z7:259:PHE:CD2	1:Z7:259:PHE:N	2.71	0.58
1:Z7:259:PHE:CZ	1:IR:259:PHE:CZ	2.90	0.58
1:L8:172:ARG:HH12	1:L8:277:GLY:H	1.51	0.58
1:Y8:80:ASP:CG	1:bQ:145:LEU:HD11	2.28	0.58
1:g8:33:TRP:H	1:KS:174:MET:HE3	0.76	0.58
1:j8:172:ARG:HH12	1:j8:277:GLY:H	1.51	0.58
3:AA:112:ILE:O	2:MK:7:MET:HA	2.02	0.58
3:AB:151:ASN:OD1	1:AD:145:LEU:CD1	2.46	0.58
3:AC:197:VAL:CB	5:EN:37:ASP:HB2	2.33	0.58
5:CC:274:LEU:O	5:CC:275:ASN:OD1	2.20	0.58
1:AD:170:GLU:HG2	1:KK:33:TRP:HZ3	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:188:VAL:HG12	1:AD:392:LEU:HD12	1.85	0.58
1:DD:320:ASP:OD2	1:DD:323:LYS:NZ	2.36	0.58
1:KD:36:GLY:HA3	1:IS:119:LYS:HD2	1.85	0.58
2:GE:2:TYR:OH	1:BP:157:LYS:NZ	2.24	0.58
1:KE:208:LEU:HD12	1:KE:391:ILE:CD1	2.24	0.58
1:ME:137:ASP:HB3	1:QQ:50:VAL:HG23	1.86	0.58
1:ME:355:TYR:HB3	1:ME:379:TYR:HB3	1.85	0.58
1:bE:85:TYR:CE2	1:CR:46:PHE:CD1	2.91	0.58
1:hG:166:LEU:HG	1:iG:96:PRO:HD2	1.86	0.58
3:AI:66:ILE:HD12	1:JS:359:MET:HE1	1.84	0.58
1:DJ:265:ASP:OD2	2:GJ:41:TYR:CD1	2.57	0.58
1:KJ:80:ASP:CG	3:AN:64:GLN:CA	2.71	0.58
1:CK:53:TYR:CD1	1:hR:222:SER:C	2.80	0.58
2:HK:15:TYR:OH	1:jR:134:ASN:O	2.17	0.58
1:JL:202:PHE:HD2	1:YR:248:SER:OG	1.86	0.58
5:CN:274:LEU:O	5:CN:275:ASN:OD1	2.20	0.58
5:OO:274:LEU:O	5:OO:275:ASN:OD1	2.20	0.58
1:BP:109:LEU:CD1	1:hR:106:GLU:N	2.61	0.58
2:GP:31:SER:OG	1:KP:71:ARG:NH1	2.37	0.58
1:BQ:170:GLU:HG3	1:BQ:382:LYS:HE2	1.85	0.58
1:RQ:368:GLU:OE1	1:TQ:375:TRP:NE1	2.35	0.58
1:bQ:321:VAL:O	1:bQ:321:VAL:HG13	2.02	0.58
1:cQ:166:LEU:HG	1:dQ:96:PRO:HD2	1.86	0.58
1:ZR:63:LEU:HG	1:ZR:63:LEU:O	2.02	0.58
1:gR:255:ILE:HG23	1:gR:261:ILE:HG12	1.86	0.58
1:C1:206:LEU:HD11	1:B1:244:ASP:OD1	2.03	0.58
1:R1:259:PHE:N	1:R1:259:PHE:CD2	2.71	0.58
1:S1:137:ASP:HB3	1:Q8:50:VAL:HG23	1.86	0.58
1:S1:261:ILE:O	1:S1:261:ILE:HG12	2.03	0.58
1:X1:46:PHE:CD1	1:J6:85:TYR:CE2	2.91	0.58
1:X1:80:ASP:CG	1:IR:145:LEU:HD11	2.28	0.58
1:X1:321:VAL:HG13	1:X1:321:VAL:O	2.02	0.58
1:Z1:261:ILE:O	1:Z1:261:ILE:HG12	2.03	0.58
1:g1:166:LEU:HG	1:h1:96:PRO:HD2	1.86	0.58
1:g1:202:PHE:HD2	1:CQ:248:SER:OG	1.86	0.58
1:g1:259:PHE:N	1:g1:259:PHE:CD2	2.71	0.58
1:C3:45:MET:HE1	1:SG:13:LEU:HD11	1.85	0.58
1:C3:145:LEU:HD11	1:QG:80:ASP:CG	2.28	0.58
1:C3:255:ILE:HG23	1:C3:261:ILE:HG12	1.85	0.58
1:J3:85:TYR:CE2	1:Q8:46:PHE:CD1	2.91	0.58
1:L3:172:ARG:HH12	1:L3:277:GLY:H	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q3:145:LEU:HD11	1:X4:80:ASP:CG	2.28	0.58
1:T3:34:THR:HG21	1:KR:122:GLY:H	1.69	0.58
1:J4:89:TYR:HE1	1:C8:61:THR:CG2	2.16	0.58
1:J4:206:LEU:O	1:C8:244:ASP:OD2	2.20	0.58
1:S4:13:LEU:HD11	1:IQ:45:MET:HE1	1.85	0.58
1:S4:170:GLU:HG3	1:S4:382:LYS:HE2	1.85	0.58
1:T4:374:HIS:CE1	2:GS:8:ARG:HH12	2.12	0.58
2:W4:2:TYR:CB	1:DD:150:ASN:OD1	2.52	0.58
1:X4:47:GLU:CD	1:BR:22:LEU:CD2	2.72	0.58
1:f4:80:ASP:CG	1:gG:145:LEU:HD11	2.28	0.58
4:B5:6:MET:HB2	5:EI:46:TYR:CD2	2.38	0.58
4:B5:144:GLN:NE2	4:BN:193:VAL:HG12	2.12	0.58
1:K6:137:ASP:HB3	1:CL:50:VAL:HG23	1.86	0.58
1:R6:166:LEU:HG	1:S6:96:PRO:HD2	1.86	0.58
1:S6:261:ILE:HG12	1:S6:261:ILE:O	2.03	0.58
1:S6:355:TYR:HB3	1:S6:379:TYR:HB3	1.85	0.58
1:Y6:248:SER:OG	1:LE:202:PHE:HD2	1.86	0.58
1:g6:81:PHE:CE2	1:DJ:139:ARG:HB2	2.39	0.58
1:g6:255:ILE:HG23	1:g6:261:ILE:HG12	1.85	0.58
1:A7:206:LEU:O	1:gR:244:ASP:OD2	2.20	0.58
1:B7:14:VAL:HA	1:DP:45:MET:CB	2.33	0.58
1:J7:85:TYR:CE2	1:bQ:46:PHE:CD1	2.91	0.58
1:Y7:244:ASP:OD2	1:JR:206:LEU:O	2.21	0.58
1:Y7:255:ILE:HG23	1:Y7:261:ILE:HG12	1.85	0.58
1:i7:170:GLU:HG3	1:i7:382:LYS:HE2	1.85	0.58
1:g8:31:LYS:O	1:KS:125:ILE:HD11	2.03	0.58
1:g8:53:TYR:CZ	1:KS:223:GLY:HA2	2.38	0.58
1:g8:81:PHE:CE2	1:DD:139:ARG:HB2	2.39	0.58
3:A9:197:VAL:CB	5:EC:37:ASP:HB2	2.33	0.58
5:EA:10:TYR:CZ	5:EC:66:TYR:HB2	2.31	0.58
5:NA:274:LEU:O	5:NA:275:ASN:OD1	2.20	0.58
5:OA:274:LEU:O	5:OA:275:ASN:OD1	2.20	0.58
3:AB:114:PHE:HB2	1:AD:360:LEU:CD2	2.33	0.58
3:AC:228:ILE:HD12	3:AH:233:GLU:OE1	2.01	0.58
4:BC:33:TYR:CZ	5:EN:57:GLU:HA	2.37	0.58
1:BD:99:MET:C	1:KS:25:PHE:CA	2.51	0.58
1:DD:162:ASP:HA	1:DD:165:VAL:HG12	1.86	0.58
2:GD:31:SER:OG	1:KD:71:ARG:NH1	2.37	0.58
1:KE:255:ILE:HG23	1:KE:261:ILE:HG12	1.85	0.58
1:UE:170:GLU:HG3	1:UE:382:LYS:HE2	1.85	0.58
1:bE:206:LEU:O	1:CR:244:ASP:OD2	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gG:46:PHE:CD1	1:AL:85:TYR:CE2	2.91	0.58
1:gG:321:VAL:O	1:gG:321:VAL:HG13	2.02	0.58
5:EI:10:TYR:CZ	5:EO:66:TYR:HB2	2.31	0.58
1:AJ:140:PHE:HE1	3:AN:26:ARG:NH2	1.98	0.58
1:CJ:244:ASP:OD2	1:LJ:207:ASN:ND2	2.37	0.58
1:KJ:372:VAL:HG21	2:MP:11:MET:HE3	1.68	0.58
1:AK:119:LYS:HD2	1:KP:36:GLY:HA3	1.85	0.58
1:BK:261:ILE:HG21	1:BK:265:ASP:OD1	1.98	0.58
2:MK:2:TYR:CG	2:GP:54:THR:OG1	2.56	0.58
1:IL:45:MET:HE1	1:KQ:13:LEU:HD11	1.85	0.58
1:JL:166:LEU:HG	1:KL:96:PRO:HD2	1.86	0.58
1:RL:115:ARG:HH22	1:QR:300:TYR:CA	2.16	0.58
1:aL:170:GLU:HG3	1:aL:382:LYS:HE2	1.85	0.58
5:EM:101:ILE:HA	5:EM:105:ILE:HB	1.84	0.58
5:EO:140:ASP:OD2	5:CO:139:LYS:HE2	1.99	0.58
1:CP:71:ARG:NH1	2:HP:31:SER:OG	2.37	0.58
1:DP:25:PHE:O	1:hR:100:ASP:CA	2.50	0.58
1:AQ:166:LEU:HG	1:BQ:96:PRO:HD2	1.86	0.58
1:IQ:208:LEU:HD12	1:IQ:391:ILE:CD1	2.24	0.58
1:JR:166:LEU:HG	1:KR:96:PRO:HD2	1.86	0.58
1:RR:166:LEU:HG	1:SR:96:PRO:HD2	1.86	0.58
1:SR:355:TYR:HB3	1:SR:379:TYR:HB3	1.85	0.58
1:ZR:166:LEU:HG	1:aR:96:PRO:HD2	1.86	0.58
1:B1:137:ASP:HB3	1:Y8:50:VAL:HG23	1.86	0.58
1:I1:61:THR:CG2	1:JG:89:TYR:HE1	2.16	0.58
1:K1:122:GLY:H	1:NE:34:THR:HG21	1.69	0.58
1:Q1:45:MET:HE1	1:KG:13:LEU:HD11	1.85	0.58
1:R1:106:GLU:N	1:AS:109:LEU:CD1	2.61	0.58
1:S1:355:TYR:HB3	1:S1:379:TYR:HB3	1.85	0.58
1:T1:50:VAL:H	1:BJ:137:ASP:CG	2.03	0.58
1:f1:50:VAL:HG23	1:B3:137:ASP:HB3	1.86	0.58
3:A2:154:ILE:CG2	1:AK:55:PHE:N	2.66	0.58
5:E2:36:ALA:CA	3:AF:194:ASN:ND2	2.66	0.58
5:F2:55:LEU:HD12	4:BF:32:PHE:CD2	2.06	0.58
1:I3:46:PHE:CD1	1:R8:85:TYR:CE2	2.91	0.58
1:I3:50:VAL:HG23	1:SL:137:ASP:HB3	1.86	0.58
1:Y3:375:TRP:CE3	1:BK:367:PRO:CG	2.87	0.58
1:C4:50:VAL:HG23	1:BG:137:ASP:HB3	1.86	0.58
1:I4:208:LEU:CD1	1:I4:391:ILE:HD12	1.95	0.58
1:K4:13:LEU:HD11	1:QL:45:MET:HE1	1.85	0.58
1:Q4:80:ASP:CG	1:IQ:145:LEU:HD11	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i4:47:GLU:CD	1:BD:22:LEU:HD22	2.27	0.58
1:i4:368:GLU:HG2	1:LD:107:LEU:HD11	1.86	0.58
3:A5:311:ILE:HD12	3:AI:258:LYS:CE	2.34	0.58
1:C6:206:LEU:HD11	1:B6:244:ASP:OD1	2.03	0.58
1:I6:54:LEU:HD11	1:YR:116:MET:HE1	0.78	0.58
1:Q6:111:ARG:NE	1:BS:105:GLU:OE2	2.36	0.58
1:S6:170:GLU:HG3	1:S6:382:LYS:HE2	1.85	0.58
1:i6:25:PHE:HE1	1:BJ:126:VAL:HG12	1.68	0.58
1:i6:170:GLU:HG3	1:i6:382:LYS:HE2	1.85	0.58
1:j6:34:THR:HG21	1:B8:122:GLY:H	1.69	0.58
1:C7:46:PHE:CD1	1:hR:85:TYR:CE2	2.91	0.58
1:C7:81:PHE:CE2	1:DP:139:ARG:HB2	2.39	0.58
1:B7:25:PHE:HE1	1:BP:126:VAL:HG12	1.68	0.58
1:I7:50:VAL:HG23	1:iR:137:ASP:HB3	1.86	0.58
1:S7:355:TYR:HB3	1:S7:379:TYR:HB3	1.85	0.58
1:T7:179:SER:HG	1:T7:341:TYR:HH	1.51	0.58
1:Z7:85:TYR:CE2	1:IR:46:PHE:CD1	2.91	0.58
1:Z7:111:ARG:CD	1:IR:371:GLU:OE1	2.44	0.58
1:Z7:202:PHE:HD2	1:IR:248:SER:OG	1.86	0.58
1:C8:206:LEU:HD11	1:B8:244:ASP:OD1	2.03	0.58
1:g8:81:PHE:CZ	1:DD:136:ASN:O	2.56	0.58
3:A9:39:LEU:O	3:A9:63:ARG:NH1	2.36	0.58
3:A9:66:ILE:HA	1:AK:150:ASN:HD21	1.66	0.58
3:A9:194:ASN:ND2	5:EC:36:ALA:CA	2.66	0.58
3:A9:202:ASN:ND2	5:DH:38:TYR:HA	2.19	0.58
3:AA:228:ILE:HD12	3:AC:233:GLU:OE1	2.01	0.58
3:AB:152:SER:HB2	1:AD:135:ASN:ND2	2.13	0.58
5:DB:44:SER:HB3	3:AM:10:VAL:HG22	1.85	0.58
1:DE:375:TRP:CE3	1:BP:367:PRO:CG	2.87	0.58
1:BE:383:ALA:HA	1:CP:34:THR:O	2.03	0.58
1:KE:206:LEU:HD11	1:ME:244:ASP:OD1	2.03	0.58
1:CG:206:LEU:HD11	1:BG:244:ASP:OD1	2.03	0.58
1:JG:259:PHE:N	1:JG:259:PHE:CD2	2.71	0.58
1:QG:255:ILE:HG23	1:QG:261:ILE:HG12	1.85	0.58
1:SG:170:GLU:HG3	1:SG:382:LYS:HE2	1.85	0.58
1:aG:47:GLU:CG	1:DK:22:LEU:CB	2.82	0.58
1:hG:89:TYR:HE1	1:CL:61:THR:CG2	2.16	0.58
3:AH:207:VAL:HG13	3:AN:183:ILE:HG12	1.86	0.58
4:BH:6:MET:HB2	5:EN:46:TYR:CD2	2.38	0.58
3:AI:10:VAL:HG22	5:DM:44:SER:HB3	1.84	0.58
3:AI:197:VAL:CB	5:EM:37:ASP:HB2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BI:6:MET:HB2	5:EO:46:TYR:CD2	2.38	0.58
1:DJ:87:GLU:OE1	1:LP:55:PHE:HB3	2.04	0.58
1:DJ:119:LYS:HZ1	1:LP:38:LYS:CD	2.15	0.58
1:KK:261:ILE:HG22	1:KK:265:ASP:CG	2.29	0.58
1:LK:55:PHE:HB3	1:DP:87:GLU:OE1	2.04	0.58
1:CL:80:ASP:CG	1:YR:145:LEU:HD11	2.28	0.58
1:AL:63:LEU:HG	1:AL:63:LEU:O	2.02	0.58
1:BL:170:GLU:HG3	1:BL:382:LYS:HE2	1.85	0.58
1:JL:259:PHE:N	1:JL:259:PHE:CD2	2.71	0.58
1:QL:71:ARG:HH22	1:RR:210:ASN:HD21	1.43	0.58
1:RL:259:PHE:N	1:RL:259:PHE:CD2	2.71	0.58
1:SL:355:TYR:HB3	1:SL:379:TYR:HB3	1.85	0.58
1:CP:22:LEU:O	1:CP:26:ASN:HB2	2.04	0.58
1:CP:244:ASP:OD2	1:LP:207:ASN:ND2	2.37	0.58
2:GP:31:SER:HB3	2:MP:45:ILE:HD11	1.85	0.58
1:AQ:63:LEU:HG	1:AQ:63:LEU:O	2.02	0.58
1:IQ:255:ILE:HG23	1:IQ:261:ILE:HG12	1.85	0.58
1:JQ:63:LEU:HG	1:JQ:63:LEU:O	2.02	0.58
1:SQ:261:ILE:O	1:SQ:261:ILE:HG12	2.03	0.58
1:TQ:172:ARG:HH12	1:TQ:277:GLY:H	1.50	0.58
1:YQ:170:GLU:OE2	1:AS:32:SER:HB2	2.02	0.58
1:bQ:255:ILE:HG23	1:bQ:261:ILE:HG12	1.85	0.58
1:dQ:261:ILE:O	1:dQ:261:ILE:HG12	2.03	0.58
1:CS:162:ASP:HA	1:CS:165:VAL:HG12	1.86	0.58
1:IS:60:GLU:HG2	1:JS:86:SER:HB2	1.83	0.58
1:C1:300:TYR:CA	1:A6:115:ARG:HH22	2.16	0.58
2:H1:15:TYR:HE2	1:f4:152:ALA:HB2	1.67	0.58
1:I1:206:LEU:HD11	1:K1:244:ASP:OD1	2.03	0.58
1:T1:49:PHE:CA	1:BJ:137:ASP:OD2	2.52	0.58
1:T1:51:ASN:HD22	1:CJ:116:MET:HE3	1.57	0.58
1:T1:368:GLU:HG2	1:LJ:107:LEU:HD11	1.86	0.58
1:T1:374:HIS:NE2	2:HJ:8:ARG:CZ	2.66	0.58
2:W1:55:GLY:CA	2:NJ:2:TYR:HB2	2.32	0.58
1:X1:255:ILE:HG23	1:X1:261:ILE:HG12	1.85	0.58
1:Y1:85:TYR:CE2	1:I6:46:PHE:CD1	2.91	0.58
1:f1:45:MET:HE1	1:B3:13:LEU:HD11	1.85	0.58
3:A2:39:LEU:O	3:A2:63:ARG:NH1	2.36	0.58
1:A3:63:LEU:HG	1:A3:63:LEU:O	2.02	0.58
1:Q3:50:VAL:HG23	1:Z4:137:ASP:HB3	1.86	0.58
1:R3:85:TYR:CE2	1:I8:46:PHE:CD1	2.91	0.58
1:S3:137:ASP:HB3	1:CR:50:VAL:HG23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:85:TYR:CE2	1:QG:46:PHE:CD1	2.91	0.58
1:A4:206:LEU:O	1:QG:244:ASP:OD2	2.21	0.58
1:J4:259:PHE:N	1:J4:259:PHE:CD2	2.71	0.58
1:K4:122:GLY:H	1:TR:34:THR:HG21	1.69	0.58
1:Q4:46:PHE:CD1	1:h8:85:TYR:CE2	2.91	0.58
1:Q4:206:LEU:HD11	1:S4:244:ASP:OD1	2.03	0.58
1:Q4:255:ILE:HG23	1:Q4:261:ILE:HG12	1.85	0.58
1:f4:50:VAL:HG23	1:B6:137:ASP:HB3	1.86	0.58
1:f4:206:LEU:HD11	1:h4:244:ASP:OD1	2.03	0.58
1:h4:122:GLY:H	1:DL:34:THR:HG21	1.69	0.58
1:h4:355:TYR:HB3	1:h4:379:TYR:HB3	1.85	0.58
1:i4:49:PHE:CA	1:BD:137:ASP:OD2	2.52	0.58
2:l4:11:MET:HG3	1:DK:133:LEU:HB3	1.84	0.58
3:A5:112:ILE:HG21	2:MJ:27:ASN:ND2	0.92	0.58
5:E5:21:ILE:HG23	5:EI:55:LEU:HD21	1.76	0.58
1:C6:321:VAL:O	1:C6:321:VAL:HG13	2.03	0.58
1:S6:47:GLU:CB	1:CS:20:SER:HB2	2.32	0.58
1:T6:34:THR:HG21	1:KG:122:GLY:H	1.69	0.58
1:Y6:259:PHE:HE1	1:LE:259:PHE:HE1	1.48	0.58
1:Z6:259:PHE:HE1	1:KE:259:PHE:HE1	1.48	0.58
1:g6:81:PHE:O	1:DJ:139:ARG:HD3	2.04	0.58
1:g6:206:LEU:HD11	1:i6:244:ASP:OD1	2.03	0.58
1:C7:148:ALA:O	2:NK:15:TYR:CE2	2.56	0.58
1:C7:255:ILE:HG23	1:C7:261:ILE:HG12	1.85	0.58
1:C7:321:VAL:O	1:C7:321:VAL:HG13	2.02	0.58
1:B7:261:ILE:HG12	1:B7:261:ILE:O	2.03	0.58
1:I7:46:PHE:CD1	1:cQ:85:TYR:CE2	2.91	0.58
1:I7:61:THR:CG2	1:cQ:89:TYR:HE1	2.16	0.58
1:I7:80:ASP:CG	1:CQ:145:LEU:HD11	2.28	0.58
1:J7:63:LEU:HG	1:J7:63:LEU:O	2.02	0.58
1:R7:85:TYR:CE2	1:QQ:46:PHE:CD1	2.91	0.58
1:R7:206:LEU:O	1:QQ:244:ASP:OD2	2.21	0.58
1:Y7:50:VAL:HG23	1:SQ:137:ASP:HB3	1.86	0.58
1:g8:148:ALA:O	2:MS:15:TYR:CE2	2.56	0.58
1:i8:46:PHE:CZ	1:DD:39:TRP:CH2	2.91	0.58
1:i8:47:GLU:HB3	1:DD:20:SER:OG	2.04	0.58
1:i8:47:GLU:CG	1:DD:22:LEU:CB	2.82	0.58
3:A9:194:ASN:ND2	5:EC:36:ALA:HA	2.17	0.58
3:A9:202:ASN:ND2	5:DH:38:TYR:HD1	1.98	0.58
3:AA:107:LEU:CD2	2:MK:19:ARG:HH22	2.16	0.58
5:DA:38:TYR:HA	3:AB:202:ASN:ND2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:51:ARG:CG	4:BM:32:PHE:HE1	2.15	0.58
1:AD:60:GLU:HG2	1:KD:86:SER:HB2	1.83	0.58
1:AD:310:THR:C	1:KK:27:HIS:ND1	2.60	0.58
1:LD:25:PHE:HD1	1:BK:99:MET:O	1.85	0.58
1:CE:261:ILE:O	1:CE:261:ILE:HG12	2.03	0.58
1:aE:80:ASP:CG	1:CG:145:LEU:HD11	2.28	0.58
5:EF:46:TYR:CD2	4:BM:6:MET:HB2	2.38	0.58
1:BG:122:GLY:H	1:TG:34:THR:HG21	1.69	0.58
1:IG:208:LEU:CD1	1:IG:391:ILE:HD12	1.95	0.58
1:QG:206:LEU:HD11	1:SG:244:ASP:OD1	2.03	0.58
1:RG:166:LEU:HG	1:SG:96:PRO:HD2	1.86	0.58
1:TG:325:LYS:HB2	1:TG:325:LYS:HZ2	1.66	0.58
1:aG:45:MET:HE1	1:DK:39:TRP:CZ3	2.39	0.58
1:gG:255:ILE:HG23	1:gG:261:ILE:HG12	1.85	0.58
1:iG:261:ILE:O	1:iG:261:ILE:HG12	2.03	0.58
3:AH:112:ILE:HG13	2:MP:23:ARG:CZ	2.27	0.58
3:AH:153:ASP:HA	3:AH:156:ILE:HG22	1.85	0.58
5:EI:140:ASP:O	5:CI:143:LYS:CD	2.50	0.58
1:AJ:297:LEU:HD11	1:JS:29:TYR:CE2	2.38	0.58
1:BJ:261:ILE:HG21	1:BJ:265:ASP:OD1	1.98	0.58
1:CJ:129:GLN:NE2	1:CJ:159:LYS:O	2.37	0.58
1:DJ:209:GLN:HE22	1:DJ:235:LEU:HB2	1.68	0.58
1:KJ:30:SER:N	1:AP:315:ALA:HB1	2.18	0.58
1:LJ:27:HIS:HE1	1:CS:310:THR:O	1.77	0.58
2:MJ:8:ARG:HH22	1:JS:374:HIS:CG	2.22	0.58
1:AK:170:GLU:HG2	1:KP:33:TRP:HZ3	1.69	0.58
1:CK:22:LEU:O	1:CK:26:ASN:HB2	2.04	0.58
1:BL:137:ASP:HB3	1:YR:50:VAL:HG23	1.86	0.58
1:BL:355:TYR:HB3	1:BL:379:TYR:HB3	1.85	0.58
1:IL:50:VAL:HG23	1:KQ:137:ASP:HB3	1.86	0.58
1:SL:261:ILE:O	1:SL:261:ILE:HG12	2.03	0.58
1:YL:255:ILE:HG23	1:YL:261:ILE:HG12	1.86	0.58
1:bL:129:GLN:NE2	1:bL:159:LYS:O	2.37	0.58
1:CQ:208:LEU:CD1	1:CQ:391:ILE:HD12	1.95	0.58
1:QQ:206:LEU:HD11	1:SQ:244:ASP:OD1	2.03	0.58
1:SQ:122:GLY:H	1:LR:34:THR:HG21	1.69	0.58
1:IR:206:LEU:HD11	1:KR:244:ASP:OD1	2.03	0.58
1:SR:170:GLU:HG3	1:SR:382:LYS:HE2	1.85	0.58
1:BS:71:ARG:NH1	2:GS:31:SER:OG	2.37	0.58
1:IS:158:LYS:NZ	1:JS:91:ILE:O	2.37	0.58
1:KS:238:ILE:HA	1:KS:346:ASP:HA	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:115:ARG:HH22	1:C6:300:TYR:CA	2.16	0.58
1:L1:129:GLN:NE2	1:L1:159:LYS:O	2.37	0.58
1:Q1:248:SER:OG	1:R6:202:PHE:HD2	1.86	0.58
1:R1:116:MET:CE	1:CJ:54:LEU:HD23	2.24	0.58
1:T1:129:GLN:NE2	1:T1:159:LYS:O	2.37	0.58
1:X1:54:LEU:HD11	1:I8:116:MET:HE1	0.78	0.58
1:Z1:137:ASP:HB3	1:IR:50:VAL:HG23	1.86	0.58
1:Z1:150:ASN:HD21	2:d7:1:MET:H3	1.52	0.58
1:f1:255:ILE:HG23	1:f1:261:ILE:HG12	1.85	0.58
1:f1:300:TYR:CA	1:AQ:115:ARG:HH22	2.16	0.58
3:A2:202:ASN:ND2	5:DC:38:TYR:HA	2.19	0.58
1:C3:248:SER:OG	1:h7:202:PHE:HD2	1.86	0.58
1:A3:202:PHE:HD2	1:g7:248:SER:OG	1.86	0.58
1:D3:129:GLN:NE2	1:D3:159:LYS:O	2.37	0.58
2:X3:53:PHE:O	1:I8:62:LEU:HD11	2.03	0.58
1:B4:261:ILE:O	1:B4:261:ILE:HG12	2.03	0.58
1:Q4:62:LEU:HD11	2:n8:53:PHE:O	2.03	0.58
1:Q4:244:ASP:OD2	1:h8:206:LEU:O	2.21	0.58
1:R4:166:LEU:HG	1:S4:96:PRO:HD2	1.86	0.58
1:X4:46:PHE:CD1	1:Z8:85:TYR:CE2	2.91	0.58
1:g4:85:TYR:CE2	1:YG:46:PHE:CD1	2.91	0.58
1:i4:44:THR:O	1:BD:17:SER:CB	2.51	0.58
2:H6:15:TYR:HE2	1:Y8:152:ALA:HB2	1.67	0.58
1:Q6:81:PHE:O	1:CS:139:ARG:HB3	2.04	0.58
1:g6:208:LEU:HD12	1:g6:391:ILE:CD1	2.24	0.58
1:g6:248:SER:OG	1:BE:202:PHE:HD2	1.86	0.58
1:K7:137:ASP:HB3	1:CQ:50:VAL:HG23	1.86	0.58
1:K7:355:TYR:HB3	1:K7:379:TYR:HB3	1.85	0.58
1:L7:34:THR:HG21	1:a8:122:GLY:H	1.69	0.58
1:Y7:321:VAL:O	1:Y7:321:VAL:HG13	2.03	0.58
1:D8:129:GLN:NE2	1:D8:159:LYS:O	2.37	0.58
1:Q8:80:ASP:CG	1:IG:145:LEU:HD11	2.28	0.58
1:Y8:206:LEU:HD11	1:a8:244:ASP:OD1	2.03	0.58
1:Y8:208:LEU:HD12	1:Y8:391:ILE:CD1	2.24	0.58
1:a8:355:TYR:HB3	1:a8:379:TYR:HB3	1.85	0.58
1:g8:80:ASP:OD2	1:DD:145:LEU:CD2	2.44	0.58
1:g8:143:GLN:O	1:KS:82:ILE:CG2	2.51	0.58
5:D9:85:PRO:HG3	5:E9:91:LEU:HD11	1.86	0.58
5:DB:38:TYR:HA	3:AO:202:ASN:ND2	2.19	0.58
1:AD:244:ASP:OD2	1:KD:210:ASN:ND2	2.37	0.58
1:CD:129:GLN:NE2	1:CD:159:LYS:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:33:TRP:CH2	1:IS:173:ALA:CB	2.86	0.58
1:KD:368:GLU:OE2	1:IS:375:TRP:CD2	2.31	0.58
1:FE:44:THR:O	1:BP:17:SER:CB	2.51	0.58
1:ME:170:GLU:HG3	1:ME:382:LYS:HE2	1.85	0.58
1:SE:62:LEU:HD11	2:PQ:53:PHE:O	2.03	0.58
1:SE:244:ASP:OD2	1:JQ:206:LEU:O	2.20	0.58
1:SE:248:SER:OG	1:JQ:202:PHE:HD2	1.86	0.58
1:TE:202:PHE:HD2	1:IQ:248:SER:OG	1.86	0.58
1:UE:122:GLY:H	1:LG:34:THR:HG21	1.69	0.58
5:NF:228:ARG:NH2	5:CM:264:GLY:C	2.62	0.58
1:CG:46:PHE:HD1	1:ZL:85:TYR:OH	1.87	0.58
1:YG:81:PHE:CE2	1:DK:139:ARG:HB2	2.39	0.58
1:YG:81:PHE:O	1:DK:139:ARG:HD3	2.04	0.58
1:hG:85:TYR:CE2	1:CL:46:PHE:CD1	2.91	0.58
4:BI:33:TYR:CZ	5:EM:57:GLU:HA	2.37	0.58
1:AJ:244:ASP:OD2	1:KJ:210:ASN:ND2	2.37	0.58
1:BJ:367:PRO:CG	1:gL:375:TRP:CE3	2.87	0.58
1:KJ:33:TRP:CH2	1:AP:173:ALA:CB	2.86	0.58
1:CK:244:ASP:OD2	1:LK:207:ASN:ND2	2.37	0.58
2:GK:31:SER:OG	1:KK:71:ARG:NH1	2.37	0.58
2:EL:44:GLN:OE1	2:EL:44:GLN:HA	2.02	0.58
1:IL:46:PHE:CD1	1:ZR:85:TYR:CE2	2.91	0.58
1:IL:300:TYR:CA	1:ZR:115:ARG:HH22	2.16	0.58
1:QL:321:VAL:HG13	1:QL:321:VAL:O	2.02	0.58
1:TL:129:GLN:NE2	1:TL:159:LYS:O	2.37	0.58
5:EO:140:ASP:HB2	5:CO:139:LYS:HD2	1.84	0.58
1:LQ:129:GLN:NE2	1:LQ:159:LYS:O	2.37	0.58
1:YR:255:ILE:HG23	1:YR:261:ILE:HG12	1.86	0.58
1:ZR:259:PHE:N	1:ZR:259:PHE:CD2	2.71	0.58
1:AS:186:THR:HG21	1:AS:214:LYS:HD2	1.85	0.58
1:C1:321:VAL:O	1:C1:321:VAL:HG13	2.03	0.58
1:J1:206:LEU:O	1:IG:244:ASP:OD2	2.21	0.58
1:K1:261:ILE:HG12	1:K1:261:ILE:O	2.03	0.58
1:Q1:314:GLY:O	1:Q8:31:LYS:HG2	2.04	0.58
1:R1:85:TYR:OH	1:Q6:46:PHE:HD1	1.87	0.58
1:f1:46:PHE:CD1	1:AQ:85:TYR:CE2	2.91	0.58
1:f1:248:SER:OG	1:AQ:202:PHE:HD2	1.86	0.58
3:A2:64:GLN:HG2	1:KK:80:ASP:C	2.28	0.58
3:A2:204:ALA:O	3:A9:181:SER:OG	2.18	0.58
1:C3:46:PHE:CD1	1:h7:85:TYR:CE2	2.91	0.58
1:A3:89:TYR:HE1	1:g7:61:THR:CG2	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:206:LEU:O	1:g7:244:ASP:OD2	2.20	0.58
2:H3:53:PHE:O	1:g7:62:LEU:HD11	2.03	0.58
1:I3:31:LYS:HG2	1:QL:314:GLY:O	2.04	0.58
1:I3:80:ASP:CG	1:I4:145:LEU:HD11	2.28	0.58
1:J3:202:PHE:HD2	1:Q8:248:SER:OG	1.86	0.58
1:Q3:248:SER:OG	1:J8:202:PHE:HD2	1.86	0.58
1:S3:355:TYR:HB3	1:S3:379:TYR:HB3	1.85	0.58
1:C4:321:VAL:O	1:C4:321:VAL:HG13	2.03	0.58
1:L4:34:THR:HG21	1:i7:122:GLY:H	1.69	0.58
1:X4:244:ASP:OD2	1:Z8:206:LEU:O	2.20	0.58
1:g4:100:ASP:OD1	1:DK:27:HIS:C	2.47	0.58
1:g4:206:LEU:O	1:YG:244:ASP:OD2	2.20	0.58
5:D5:44:SER:HB3	3:AH:10:VAL:HG22	1.85	0.58
1:B6:122:GLY:H	1:bG:34:THR:HG21	1.69	0.58
1:T6:129:GLN:NE2	1:T6:159:LYS:O	2.37	0.58
1:Z6:63:LEU:HG	1:Z6:63:LEU:O	2.02	0.58
1:Z6:202:PHE:HD2	1:KE:248:SER:OG	1.86	0.58
1:a6:122:GLY:H	1:LQ:34:THR:HG21	1.69	0.58
1:C7:111:ARG:NE	1:CP:105:GLU:OE2	2.36	0.58
1:A7:85:TYR:CE2	1:gR:46:PHE:CD1	2.91	0.58
1:B7:13:LEU:C	1:DP:45:MET:CG	2.70	0.58
1:B7:47:GLU:CG	1:DP:22:LEU:CB	2.82	0.58
1:J7:368:GLU:OE1	1:L7:375:TRP:NE1	2.35	0.58
1:L7:98:ASN:HD22	1:L7:99:MET:H	1.52	0.58
2:M7:44:GLN:OE1	2:M7:44:GLN:HA	2.02	0.58
1:a7:137:ASP:HB3	1:KE:50:VAL:HG23	1.86	0.58
1:B8:261:ILE:O	1:B8:261:ILE:HG12	2.03	0.58
1:g8:321:VAL:HG13	1:g8:321:VAL:O	2.03	0.58
1:i8:45:MET:HE1	1:DD:39:TRP:CZ3	2.39	0.58
1:i8:261:ILE:O	1:i8:261:ILE:HG12	2.03	0.58
3:AA:83:TYR:O	2:MK:10:MET:HB2	2.04	0.58
3:AB:183:ILE:HG12	3:AF:207:VAL:HG13	1.86	0.58
5:EB:36:ALA:CA	3:AM:194:ASN:ND2	2.66	0.58
5:NB:228:ARG:NH2	5:CF:264:GLY:C	2.62	0.58
5:NB:231:ASN:CA	5:CF:265:LEU:CD1	2.74	0.58
3:AC:153:ASP:HA	3:AC:156:ILE:HG22	1.85	0.58
1:AD:58:ILE:HG13	3:AF:154:ILE:CG2	2.34	0.58
1:AD:223:GLY:HA2	1:KK:53:TYR:CE2	2.33	0.58
1:CD:244:ASP:OD2	1:LD:207:ASN:ND2	2.37	0.58
1:CD:271:ILE:HD13	2:ED:45:ILE:HD12	1.86	0.58
1:DD:18:ALA:HA	1:DD:23:GLN:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:170:GLU:O	1:KS:33:TRP:CZ3	2.55	0.58
1:LD:57:LYS:CA	1:KK:58:ILE:HG21	2.21	0.58
1:FE:32:SER:HA	1:CP:125:ILE:HD11	1.86	0.58
1:SE:61:THR:CG2	1:JQ:89:TYR:HE1	2.16	0.58
1:TE:85:TYR:CE2	1:IQ:46:PHE:CD1	2.91	0.58
1:DG:34:THR:HG21	1:SR:122:GLY:H	1.69	0.58
5:EI:36:ALA:CA	3:AN:194:ASN:ND2	2.66	0.58
5:EI:37:ASP:HB2	3:AN:197:VAL:CB	2.33	0.58
1:KJ:53:TYR:HB3	1:AP:118:THR:CG2	2.32	0.58
1:KJ:347:ILE:HG12	2:MJ:48:LEU:HB3	1.86	0.58
1:CK:133:LEU:HD23	2:kR:11:MET:HG3	1.84	0.58
1:DL:98:ASN:HD22	1:DL:99:MET:H	1.52	0.58
1:KL:170:GLU:HG3	1:KL:382:LYS:HE2	1.85	0.58
1:YL:50:VAL:HG23	1:SR:137:ASP:HB3	1.86	0.58
1:ZL:166:LEU:HG	1:aL:96:PRO:HD2	1.86	0.58
1:aL:122:GLY:H	1:TQ:34:THR:HG21	1.69	0.58
5:DM:30:PRO:CG	1:IS:140:PHE:HD2	2.06	0.58
3:AO:66:ILE:CG2	1:IS:150:ASN:ND2	2.67	0.58
1:AP:244:ASP:OD2	1:KP:210:ASN:ND2	2.37	0.58
1:CQ:255:ILE:HG23	1:CQ:261:ILE:HG12	1.86	0.58
1:AQ:259:PHE:N	1:AQ:259:PHE:CD2	2.71	0.58
1:CS:357:LYS:HA	2:ES:20:LEU:HB3	1.85	0.58
1:IS:188:VAL:HG12	1:IS:392:LEU:HD12	1.85	0.58
1:B1:122:GLY:H	1:a4:34:THR:HG21	1.69	0.57
1:B1:170:GLU:HG3	1:B1:382:LYS:HE2	1.85	0.57
1:D1:34:THR:HG21	1:iG:122:GLY:H	1.69	0.57
1:K1:355:TYR:HB3	1:K1:379:TYR:HB3	1.85	0.57
1:Q1:321:VAL:O	1:Q1:321:VAL:HG13	2.02	0.57
1:R1:106:GLU:N	1:AS:109:LEU:HD12	2.19	0.57
1:X1:38:LYS:HE2	1:I8:221:ALA:O	2.04	0.57
1:X1:206:LEU:HD11	1:Z1:244:ASP:OD1	2.03	0.57
3:A2:183:ILE:HG12	3:AB:207:VAL:HG13	1.86	0.57
3:A2:208:LYS:HB3	4:BA:251:TRP:NE1	2.19	0.57
5:D2:44:SER:HB3	3:AF:10:VAL:HG22	1.84	0.57
1:C3:31:LYS:HG2	1:QG:314:GLY:O	2.04	0.57
1:D3:34:THR:HG21	1:CE:122:GLY:H	1.69	0.57
1:I3:248:SER:OG	1:R8:202:PHE:HD2	1.86	0.57
1:K3:13:LEU:HD11	1:I4:45:MET:HE1	1.85	0.57
1:Q3:152:ALA:HB2	2:f8:15:TYR:HE2	1.67	0.57
1:R3:63:LEU:HG	1:R3:63:LEU:O	2.02	0.57
1:Y3:109:LEU:C	1:LK:105:GLU:HG3	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C4:46:PHE:HD1	1:RG:85:TYR:OH	1.87	0.57
2:H4:53:PHE:O	1:QG:62:LEU:HD11	2.03	0.57
1:I4:244:ASP:OD2	1:A8:206:LEU:O	2.21	0.57
1:K4:137:ASP:HB3	1:QL:50:VAL:HG23	1.86	0.57
1:Q4:314:GLY:O	1:IQ:31:LYS:HG2	2.04	0.57
1:R4:202:PHE:HD2	1:g8:248:SER:OG	1.86	0.57
1:T4:325:LYS:HB2	1:T4:325:LYS:HZ2	1.66	0.57
1:X4:255:ILE:HG23	1:X4:261:ILE:HG12	1.86	0.57
1:X4:321:VAL:O	1:X4:321:VAL:HG13	2.03	0.57
1:f4:208:LEU:CD1	1:f4:391:ILE:HD12	1.95	0.57
1:f4:221:ALA:O	1:gG:38:LYS:HE2	2.04	0.57
1:i4:129:GLN:NE2	1:i4:159:LYS:O	2.37	0.57
3:A5:197:VAL:HG11	5:DM:40:THR:CG2	2.27	0.57
3:A5:207:VAL:HG13	3:AI:183:ILE:HG12	1.86	0.57
1:A6:259:PHE:N	1:A6:259:PHE:CD2	2.71	0.57
1:D6:34:THR:HG21	1:dQ:122:GLY:H	1.69	0.57
1:L6:129:GLN:NE2	1:L6:159:LYS:O	2.37	0.57
1:Q6:53:TYR:CZ	1:LJ:223:GLY:HA2	2.38	0.57
1:Q6:206:LEU:HD11	1:S6:244:ASP:OD1	2.03	0.57
1:S6:46:PHE:CZ	1:CS:39:TRP:CH2	2.91	0.57
1:S6:122:GLY:H	1:YQ:34:THR:HG21	1.69	0.57
1:Z6:166:LEU:HG	1:a6:96:PRO:HD2	1.86	0.57
1:C7:53:TYR:CZ	1:LK:223:GLY:HA2	2.38	0.57
1:I7:38:LYS:HE2	1:gR:221:ALA:O	2.04	0.57
1:R7:210:ASN:HD21	1:QQ:71:ARG:HH22	1.43	0.57
1:S7:261:ILE:O	1:S7:261:ILE:HG12	2.03	0.57
1:i7:137:ASP:HB3	1:C8:50:VAL:HG23	1.86	0.57
1:A8:166:LEU:HG	1:B8:96:PRO:HD2	1.86	0.57
1:Q8:255:ILE:HG23	1:Q8:261:ILE:HG12	1.85	0.57
1:Y8:208:LEU:CD1	1:Y8:391:ILE:HD12	1.95	0.57
1:Y8:221:ALA:O	1:bQ:38:LYS:HE2	2.04	0.57
1:b8:129:GLN:NE2	1:b8:159:LYS:O	2.37	0.57
1:g8:81:PHE:O	1:DD:139:ARG:HD3	2.03	0.57
3:A9:66:ILE:CD1	1:AK:153:LEU:HD13	2.34	0.57
3:AB:115:ILE:N	2:MD:19:ARG:HG3	2.18	0.57
3:AB:181:SER:OG	3:AF:204:ALA:O	2.19	0.57
1:KD:30:SER:N	1:IS:315:ALA:HB1	2.18	0.57
1:BE:63:LEU:HG	1:BE:63:LEU:O	2.02	0.57
1:BE:166:LEU:HG	1:CE:96:PRO:HD2	1.86	0.57
1:BE:382:LYS:HG3	1:CP:32:SER:O	2.03	0.57
1:aE:321:VAL:O	1:aE:321:VAL:HG13	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:355:TYR:HB3	1:BG:379:TYR:HB3	1.85	0.57
1:YG:255:ILE:HG23	1:YG:261:ILE:HG12	1.86	0.57
1:ZG:63:LEU:HG	1:ZG:63:LEU:O	2.02	0.57
1:iG:355:TYR:HB3	1:iG:379:TYR:HB3	1.85	0.57
4:BI:145:ASN:HB3	4:BI:192:THR:H	1.67	0.57
1:CJ:71:ARG:NH1	2:HJ:31:SER:OG	2.37	0.57
1:KJ:261:ILE:HG21	1:KJ:265:ASP:OD2	2.03	0.57
1:KJ:261:ILE:HG22	1:KJ:265:ASP:CG	2.29	0.57
1:CK:71:ARG:NH1	2:HK:31:SER:OG	2.37	0.57
1:LK:111:ARG:NH1	1:iR:101:LEU:O	2.37	0.57
1:BL:13:LEU:HD11	1:YR:45:MET:HE1	1.85	0.57
1:IL:248:SER:OG	1:ZR:202:PHE:HD2	1.86	0.57
1:IL:255:ILE:HG23	1:IL:261:ILE:HG12	1.85	0.57
1:QL:248:SER:OG	1:RR:202:PHE:HD2	1.86	0.57
1:RL:85:TYR:OH	1:QR:46:PHE:HD1	1.87	0.57
1:YL:31:LYS:HG2	1:QR:314:GLY:O	2.04	0.57
5:DO:85:PRO:HG3	5:EO:91:LEU:HD11	1.86	0.57
1:BP:109:LEU:HD12	1:hR:106:GLU:N	2.18	0.57
1:CP:129:GLN:NE2	1:CP:159:LYS:O	2.36	0.57
1:DP:27:HIS:C	1:hR:100:ASP:OD1	2.47	0.57
1:DP:265:ASP:OD2	2:GP:41:TYR:CD1	2.57	0.57
1:DQ:98:ASN:HD22	1:DQ:99:MET:H	1.52	0.57
1:JQ:259:PHE:N	1:JQ:259:PHE:CD2	2.71	0.57
1:TQ:129:GLN:NE2	1:TQ:159:LYS:O	2.37	0.57
1:dQ:355:TYR:HB3	1:dQ:379:TYR:HB3	1.85	0.57
1:AR:166:LEU:HG	1:BR:96:PRO:HD2	1.86	0.57
1:BR:170:GLU:HG3	1:BR:382:LYS:HE2	1.85	0.57
1:DR:98:ASN:HD22	1:DR:99:MET:H	1.52	0.57
1:QR:206:LEU:HD11	1:SR:244:ASP:OD1	2.03	0.57
1:TR:129:GLN:NE2	1:TR:159:LYS:O	2.37	0.57
1:bR:98:ASN:HD22	1:bR:99:MET:H	1.52	0.57
1:JS:261:ILE:HG22	1:JS:265:ASP:CG	2.29	0.57
1:A1:111:ARG:CD	1:C6:371:GLU:OE1	2.44	0.57
1:A1:255:ILE:HG23	1:A1:261:ILE:HG12	1.87	0.57
1:A1:259:PHE:N	1:A1:259:PHE:CD2	2.71	0.57
1:I1:50:VAL:HG23	1:UE:137:ASP:HB3	1.86	0.57
1:J1:166:LEU:HG	1:K1:96:PRO:HD2	1.86	0.57
1:Q1:50:VAL:HG23	1:KG:137:ASP:HB3	1.86	0.57
1:T1:149:THR:O	2:HJ:2:TYR:CE2	2.51	0.57
1:X1:314:GLY:O	1:IR:31:LYS:HG2	2.04	0.57
1:h1:137:ASP:HB3	1:QG:50:VAL:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h1:170:GLU:HG3	1:h1:382:LYS:HE2	1.85	0.57
1:i1:98:ASN:HD22	1:i1:99:MET:H	1.52	0.57
1:A3:259:PHE:CD2	1:A3:259:PHE:N	2.71	0.57
1:b3:98:ASN:HD22	1:b3:99:MET:H	1.52	0.57
1:b3:109:LEU:C	1:LD:105:GLU:HG3	2.29	0.57
1:C4:145:LEU:HD11	1:CG:80:ASP:CG	2.28	0.57
1:L4:129:GLN:NE2	1:L4:159:LYS:O	2.37	0.57
1:Q4:50:VAL:HG23	1:KL:137:ASP:HB3	1.86	0.57
1:R4:85:TYR:OH	1:g8:46:PHE:HD1	1.87	0.57
1:R4:259:PHE:N	1:R4:259:PHE:CD2	2.71	0.57
1:T4:136:ASN:O	1:BS:81:PHE:CZ	2.53	0.57
1:Y4:63:LEU:HG	1:Y4:63:LEU:O	2.02	0.57
1:Y4:166:LEU:HG	1:Z4:96:PRO:HD2	1.86	0.57
1:i4:98:ASN:HD22	1:i4:99:MET:H	1.52	0.57
1:i4:374:HIS:NE2	2:HD:8:ARG:CZ	2.66	0.57
3:A5:115:ILE:C	2:MJ:21:ASN:CG	2.71	0.57
3:A5:258:LYS:CE	3:AN:311:ILE:HD12	2.34	0.57
5:D5:85:PRO:HG3	5:E5:91:LEU:HD11	1.86	0.57
5:E5:140:ASP:HB2	5:C5:139:LYS:HD2	1.84	0.57
1:A6:255:ILE:HG23	1:A6:261:ILE:HG12	1.87	0.57
1:I6:221:ALA:O	1:CL:38:LYS:HE2	2.04	0.57
1:K6:13:LEU:HD11	1:CL:45:MET:HE1	1.85	0.57
1:Y6:46:PHE:CD1	1:LE:85:TYR:CE2	2.91	0.57
1:g6:53:TYR:CZ	1:LP:223:GLY:HA2	2.38	0.57
1:g6:259:PHE:HE1	1:BE:259:PHE:HE1	1.48	0.57
1:h6:85:TYR:CE2	1:AE:46:PHE:CD1	2.91	0.57
1:h6:259:PHE:HE1	1:AE:259:PHE:HE1	1.48	0.57
1:i6:44:THR:CB	1:DJ:16:LYS:HZ3	2.18	0.57
1:C7:141:ASN:OD1	1:CK:51:ASN:CG	2.47	0.57
1:B7:45:MET:HE1	1:DP:39:TRP:CZ3	2.39	0.57
1:B7:47:GLU:HB3	1:DP:20:SER:OG	2.04	0.57
1:D7:129:GLN:NE2	1:D7:159:LYS:O	2.37	0.57
1:K7:261:ILE:O	1:K7:261:ILE:HG12	2.03	0.57
1:Q7:31:LYS:HG2	1:YL:314:GLY:O	2.04	0.57
1:Q7:145:LEU:HD11	1:YL:80:ASP:CG	2.28	0.57
1:R7:85:TYR:OH	1:QQ:46:PHE:HD1	1.87	0.57
1:S7:122:GLY:H	1:TL:34:THR:HG21	1.69	0.57
1:B8:137:ASP:HB3	1:AE:50:VAL:HG23	1.86	0.57
1:J8:166:LEU:HG	1:K8:96:PRO:HD2	1.86	0.57
1:L8:98:ASN:HD22	1:L8:99:MET:H	1.52	0.57
2:P8:15:TYR:HE2	1:CR:152:ALA:HB2	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S8:13:LEU:HD11	1:IG:45:MET:HE1	1.85	0.57
2:V8:1:MET:H2	1:SL:150:ASN:HD21	1.51	0.57
1:b8:98:ASN:HD22	1:b8:99:MET:H	1.52	0.57
1:g8:81:PHE:O	1:DD:139:ARG:HB3	2.04	0.57
1:g8:141:ASN:OD1	1:BS:51:ASN:CG	2.47	0.57
1:j8:129:GLN:NE2	1:j8:159:LYS:O	2.37	0.57
5:D9:38:TYR:HA	3:AF:202:ASN:ND2	2.19	0.57
3:AA:112:ILE:CD1	2:MK:16:GLU:CG	2.60	0.57
3:AB:150:TYR:HE1	1:AD:144:THR:OG1	1.69	0.57
3:AC:10:VAL:HG22	5:DN:44:SER:HB3	1.84	0.57
3:AC:39:LEU:O	3:AC:63:ARG:NH1	2.36	0.57
5:EC:140:ASP:HB2	5:CC:139:LYS:HD2	1.84	0.57
1:CD:51:ASN:CG	1:YG:141:ASN:OD1	2.47	0.57
1:KD:374:HIS:CG	2:LS:8:ARG:HH22	2.22	0.57
1:FE:368:GLU:HG2	1:LP:107:LEU:HD11	1.86	0.57
1:KE:221:ALA:O	1:QQ:38:LYS:HE2	2.04	0.57
1:KE:314:GLY:O	1:QQ:31:LYS:HG2	2.04	0.57
1:aE:244:ASP:OD2	1:AR:206:LEU:O	2.21	0.57
1:aE:314:GLY:O	1:CG:31:LYS:HG2	2.04	0.57
1:bE:259:PHE:N	1:bE:259:PHE:CD2	2.71	0.57
3:AF:73:ALA:O	3:AF:74:ARG:NE	2.37	0.57
5:DF:85:PRO:HG3	5:EF:91:LEU:HD11	1.86	0.57
1:AG:115:ARG:HH22	1:YL:300:TYR:CA	2.16	0.57
1:KG:170:GLU:HG3	1:KG:382:LYS:HE2	1.85	0.57
1:RG:259:PHE:N	1:RG:259:PHE:CD2	2.71	0.57
1:YG:81:PHE:CZ	1:DK:136:ASN:O	2.56	0.57
1:YG:321:VAL:HG13	1:YG:321:VAL:O	2.03	0.57
1:ZG:166:LEU:HG	1:aG:96:PRO:HD2	1.86	0.57
1:hG:259:PHE:N	1:hG:259:PHE:CD2	2.71	0.57
3:AH:202:ASN:ND2	5:DI:38:TYR:HA	2.19	0.57
1:AJ:158:LYS:NZ	1:KJ:91:ILE:O	2.37	0.57
2:GJ:31:SER:HB3	2:MJ:45:ILE:HD11	1.85	0.57
1:KJ:30:SER:HA	1:AP:315:ALA:CB	2.33	0.57
1:KJ:364:PHE:CZ	1:KP:108:MET:SD	2.97	0.57
1:KJ:368:GLU:OE2	1:AP:130:LYS:CB	2.52	0.57
1:BK:186:THR:HG21	1:BK:214:LYS:HD2	1.85	0.57
1:LK:22:LEU:HD22	1:KP:47:GLU:CD	2.29	0.57
1:LK:33:TRP:CZ3	1:DP:170:GLU:O	2.55	0.57
1:LK:39:TRP:O	1:DP:222:SER:CB	2.52	0.57
1:AL:368:GLU:OE1	1:DL:375:TRP:NE1	2.35	0.57
1:LL:98:ASN:HD22	1:LL:99:MET:H	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZL:259:PHE:N	1:ZL:259:PHE:CD2	2.71	0.57
1:ZL:368:GLU:OE1	1:bL:375:TRP:NE1	2.35	0.57
1:aL:261:ILE:O	1:aL:261:ILE:HG12	2.03	0.57
1:aL:355:TYR:HB3	1:aL:379:TYR:HB3	1.85	0.57
1:bL:98:ASN:HD22	1:bL:99:MET:H	1.52	0.57
5:DM:85:PRO:HG3	5:EM:91:LEU:HD11	1.86	0.57
5:NM:228:ARG:NH2	5:CO:264:GLY:C	2.62	0.57
1:RQ:259:PHE:N	1:RQ:259:PHE:CD2	2.71	0.57
2:ZQ:44:GLN:OE1	2:ZQ:44:GLN:HA	2.02	0.57
1:LR:98:ASN:HD22	1:LR:99:MET:H	1.52	0.57
1:gR:206:LEU:HD11	1:iR:244:ASP:OD1	2.03	0.57
1:jR:129:GLN:NE2	1:jR:159:LYS:O	2.37	0.57
2:FS:31:SER:OG	1:JS:71:ARG:NH1	2.37	0.57
1:C1:50:VAL:HG23	1:dQ:137:ASP:HB3	1.86	0.57
1:I1:221:ALA:O	1:Y6:38:LYS:HE2	2.05	0.57
1:K1:134:ASN:HD22	1:Y6:50:VAL:HG21	1.70	0.57
1:K1:137:ASP:HB3	1:Y6:50:VAL:HG23	1.86	0.57
1:R1:85:TYR:CE2	1:Q6:46:PHE:CD1	2.91	0.57
1:S1:100:ASP:HB2	1:CJ:25:PHE:O	1.99	0.57
1:a1:129:GLN:NE2	1:a1:159:LYS:O	2.37	0.57
2:e1:30:MET:HG3	1:I6:71:ARG:HE	1.70	0.57
1:f1:31:LYS:HG2	1:C3:314:GLY:O	2.04	0.57
1:h1:122:GLY:H	1:D4:34:THR:HG21	1.69	0.57
3:A2:114:PHE:HD1	2:GK:25:GLU:CB	2.16	0.57
3:A2:311:ILE:HD12	3:A9:258:LYS:CE	2.34	0.57
1:C3:38:LYS:HE2	1:QG:221:ALA:O	2.05	0.57
1:B3:261:ILE:O	1:B3:261:ILE:HG12	2.03	0.57
1:I3:152:ALA:HB2	2:XR:15:TYR:HE2	1.67	0.57
1:I3:255:ILE:HG23	1:I3:261:ILE:HG12	1.85	0.57
1:L3:129:GLN:NE2	1:L3:159:LYS:O	2.37	0.57
1:Y3:98:ASN:HD22	1:Y3:99:MET:H	1.52	0.57
1:C4:38:LYS:HE2	1:CG:221:ALA:O	2.04	0.57
1:C4:61:THR:CG2	1:RG:89:TYR:HE1	2.16	0.57
1:C4:221:ALA:O	1:aE:38:LYS:HE2	2.05	0.57
1:C4:248:SER:OG	1:RG:202:PHE:HD2	1.86	0.57
1:B4:355:TYR:HB3	1:B4:379:TYR:HB3	1.85	0.57
1:D4:129:GLN:NE2	1:D4:159:LYS:O	2.37	0.57
1:Q4:221:ALA:O	1:IQ:38:LYS:HE2	2.05	0.57
1:R4:89:TYR:HE1	1:g8:61:THR:CG2	2.16	0.57
1:R4:100:ASP:OD1	1:DD:27:HIS:C	2.47	0.57
1:S4:101:LEU:O	1:KS:111:ARG:NH1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U4:11:MET:HG2	1:BS:133:LEU:HB3	1.86	0.57
1:X4:71:ARG:HE	2:f8:30:MET:HG3	1.70	0.57
1:f4:314:GLY:O	1:gG:31:LYS:HG2	2.04	0.57
1:g4:166:LEU:HG	1:h4:96:PRO:HD2	1.86	0.57
2:l4:30:MET:HG3	1:YG:71:ARG:HE	1.70	0.57
3:A5:193:ILE:CG1	5:EO:37:ASP:OD2	2.37	0.57
4:B5:33:TYR:HE1	5:EO:57:GLU:CG	2.09	0.57
1:B6:170:GLU:HG3	1:B6:382:LYS:HE2	1.85	0.57
1:Q6:32:SER:CB	1:LJ:316:VAL:HG21	2.34	0.57
1:Q6:255:ILE:HG23	1:Q6:261:ILE:HG12	1.86	0.57
1:a6:13:LEU:HD11	1:SE:45:MET:HE1	1.85	0.57
1:b6:34:THR:HG21	1:a7:122:GLY:H	1.69	0.57
1:i6:45:MET:HE1	1:DJ:39:TRP:CZ3	2.39	0.57
1:i6:47:GLU:HB3	1:DJ:20:SER:OG	2.04	0.57
1:C7:206:LEU:HD11	1:B7:244:ASP:OD1	2.03	0.57
1:C7:248:SER:OG	1:hR:202:PHE:HD2	1.86	0.57
1:C7:367:PRO:HB2	1:LK:375:TRP:CE3	2.34	0.57
1:B7:143:GLN:C	1:BP:82:ILE:CG1	2.77	0.57
2:F7:1:MET:H2	1:BQ:150:ASN:HD21	1.51	0.57
2:H7:30:MET:HG3	1:gR:71:ARG:HE	1.70	0.57
1:J7:166:LEU:HG	1:K7:96:PRO:HD2	1.86	0.57
1:K7:13:LEU:HD11	1:CQ:45:MET:HE1	1.85	0.57
1:Q7:255:ILE:HG23	1:Q7:261:ILE:HG12	1.86	0.57
1:Y7:248:SER:OG	1:JR:202:PHE:HD2	1.86	0.57
1:Y7:300:TYR:CA	1:JR:115:ARG:HH22	2.16	0.57
1:a7:261:ILE:O	1:a7:261:ILE:HG12	2.03	0.57
1:C8:221:ALA:O	1:AE:38:LYS:HE2	2.05	0.57
1:B8:134:ASN:HD22	1:AE:50:VAL:HG21	1.70	0.57
1:B8:355:TYR:HB3	1:B8:379:TYR:HB3	1.85	0.57
1:I8:31:LYS:HG2	1:IR:314:GLY:O	2.04	0.57
1:I8:38:LYS:HE2	1:IR:221:ALA:O	2.05	0.57
1:Q8:314:GLY:O	1:IG:31:LYS:HG2	2.04	0.57
1:T8:129:GLN:NE2	1:T8:159:LYS:O	2.37	0.57
1:Z8:166:LEU:HG	1:a8:96:PRO:HD2	1.86	0.57
1:i8:355:TYR:HB3	1:i8:379:TYR:HB3	1.85	0.57
3:AA:204:ALA:O	3:AC:181:SER:OG	2.18	0.57
5:CA:264:GLY:C	5:NC:228:ARG:NH2	2.62	0.57
3:AC:208:LYS:HB3	4:BN:251:TRP:NE1	2.20	0.57
5:CC:264:GLY:C	5:NH:228:ARG:NH2	2.62	0.57
1:AD:130:LYS:HB2	1:KK:368:GLU:OE2	2.05	0.57
1:AD:130:LYS:CB	1:KK:368:GLU:OE2	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:145:LEU:HB3	3:AF:37:GLU:OE2	2.04	0.57
1:CD:134:ASN:ND2	1:CD:137:ASP:OD1	2.38	0.57
1:CD:177:ASP:OD1	1:CD:181:ASN:ND2	2.37	0.57
1:DD:222:SER:CB	1:KS:39:TRP:O	2.52	0.57
1:KD:33:TRP:HZ3	1:IS:170:GLU:HG2	1.69	0.57
1:LD:55:PHE:HB3	1:DK:87:GLU:OE1	2.04	0.57
1:LD:128:LYS:NZ	1:LD:303:TYR:OH	2.35	0.57
1:LD:133:LEU:HG	2:FK:11:MET:HB3	1.79	0.57
1:LD:372:VAL:CB	2:FK:10:MET:CB	2.76	0.57
1:FE:49:PHE:CA	1:BP:137:ASP:OD2	2.52	0.57
1:UE:355:TYR:HB3	1:UE:379:TYR:HB3	1.85	0.57
1:aE:61:THR:CG2	1:AR:89:TYR:HE1	2.16	0.57
1:JG:166:LEU:HG	1:KG:96:PRO:HD2	1.86	0.57
1:LG:129:GLN:NE2	1:LG:159:LYS:O	2.37	0.57
2:MG:44:GLN:OE1	2:MG:44:GLN:HA	2.02	0.57
1:gG:206:LEU:HD11	1:iG:244:ASP:OD1	2.03	0.57
3:AH:150:TYR:CG	1:AP:145:LEU:HD12	2.38	0.57
3:AI:194:ASN:ND2	5:EM:36:ALA:HA	2.17	0.57
4:BI:251:TRP:NE1	3:AN:208:LYS:HB3	2.20	0.57
1:AJ:80:ASP:O	1:JS:145:LEU:CD1	2.48	0.57
1:AJ:130:LYS:CB	1:JS:368:GLU:OE2	2.53	0.57
1:CJ:22:LEU:O	1:CJ:26:ASN:HB2	2.04	0.57
1:DJ:85:TYR:HB2	1:LP:55:PHE:CZ	2.38	0.57
1:DJ:357:LYS:HA	2:FJ:20:LEU:HB3	1.85	0.57
1:KJ:108:MET:SD	1:JS:364:PHE:CZ	2.98	0.57
1:KJ:364:PHE:HE2	1:KP:108:MET:SD	2.27	0.57
1:LJ:367:PRO:CB	1:CS:361:LYS:HB3	2.34	0.57
1:DK:265:ASP:OD2	2:GK:41:TYR:CD1	2.57	0.57
1:KK:108:MET:SD	1:KP:364:PHE:CZ	2.98	0.57
1:LK:107:LEU:HD11	1:jR:368:GLU:HG2	1.86	0.57
1:LK:153:LEU:CD1	2:FP:2:TYR:HE2	2.15	0.57
2:MK:8:ARG:HH22	1:KP:374:HIS:CG	2.22	0.57
1:AL:166:LEU:HG	1:BL:96:PRO:HD2	1.86	0.57
1:AL:255:ILE:HG23	1:AL:261:ILE:HG12	1.86	0.57
1:RL:85:TYR:CE2	1:QR:46:PHE:CD1	2.91	0.57
3:AO:36:LEU:CD2	1:IS:139:ARG:CZ	2.81	0.57
3:AO:73:ALA:O	3:AO:74:ARG:NE	2.37	0.57
1:KP:261:ILE:HG21	1:KP:265:ASP:OD2	2.03	0.57
1:RQ:166:LEU:HG	1:SQ:96:PRO:HD2	1.86	0.57
1:YQ:109:LEU:C	1:KS:105:GLU:HG3	2.29	0.57
1:CR:255:ILE:HG23	1:CR:261:ILE:HG12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JR:259:PHE:N	1:JR:259:PHE:CD2	2.71	0.57
2:MR:44:GLN:HA	2:MR:44:GLN:OE1	2.02	0.57
1:YR:208:LEU:CD1	1:YR:391:ILE:HD12	1.95	0.57
1:BS:244:ASP:OD2	1:KS:207:ASN:ND2	2.37	0.57
1:C1:134:ASN:HD22	1:dQ:50:VAL:HG21	1.70	0.57
1:B1:355:TYR:HB3	1:B1:379:TYR:HB3	1.85	0.57
1:L1:98:ASN:HD22	1:L1:99:MET:H	1.52	0.57
1:X1:50:VAL:HG23	1:K8:137:ASP:HB3	1.86	0.57
1:Y1:111:ARG:CD	1:I6:371:GLU:OE1	2.44	0.57
1:f1:38:LYS:HE2	1:C3:221:ALA:O	2.04	0.57
1:f1:54:LEU:HD11	1:C3:116:MET:HE1	0.78	0.57
1:f1:221:ALA:O	1:QG:38:LYS:HE2	2.04	0.57
1:h1:261:ILE:O	1:h1:261:ILE:HG12	2.03	0.57
5:C2:264:GLY:C	5:N9:228:ARG:NH2	2.62	0.57
1:A3:85:TYR:CE2	1:g7:46:PHE:CD1	2.91	0.57
1:I3:314:GLY:O	1:I4:31:LYS:HG2	2.04	0.57
2:P3:15:TYR:HE2	1:IG:152:ALA:HB2	1.67	0.57
1:Q3:80:ASP:CG	1:CR:145:LEU:HD11	2.28	0.57
2:H4:30:MET:HG3	1:QG:71:ARG:HE	1.70	0.57
1:I4:206:LEU:HD11	1:K4:244:ASP:OD1	2.03	0.57
1:I4:255:ILE:HG23	1:I4:261:ILE:HG12	1.85	0.57
1:J4:166:LEU:HG	1:K4:96:PRO:HD2	1.86	0.57
1:K4:170:GLU:HG3	1:K4:382:LYS:HE2	1.85	0.57
1:Q4:38:LYS:HE2	1:IL:221:ALA:O	2.04	0.57
1:Q4:61:THR:CG2	1:h8:89:TYR:HE1	2.16	0.57
1:Q4:71:ARG:HE	2:n8:30:MET:HG3	1.70	0.57
1:R4:101:LEU:HD21	1:DD:136:ASN:HD21	1.70	0.57
1:R4:255:ILE:HG23	1:R4:261:ILE:HG12	1.87	0.57
1:T4:49:PHE:CA	1:AS:137:ASP:OD2	2.52	0.57
1:f4:71:ARG:HE	2:fG:30:MET:HG3	1.70	0.57
1:g4:101:LEU:HD21	1:DK:136:ASN:HD21	1.70	0.57
1:g4:105:GLU:HB2	1:BK:110:LYS:CE	2.29	0.57
1:g4:115:ARG:HH22	1:YG:300:TYR:CA	2.16	0.57
1:C6:50:VAL:HG23	1:iG:137:ASP:HB3	1.86	0.57
1:C6:134:ASN:HD22	1:iG:50:VAL:HG21	1.70	0.57
1:I6:206:LEU:HD11	1:K6:244:ASP:OD1	2.03	0.57
1:I6:222:SER:CA	1:CL:38:LYS:HD3	2.35	0.57
1:L6:34:THR:HG21	1:K8:122:GLY:H	1.69	0.57
1:S6:45:MET:HE1	1:CS:39:TRP:CZ3	2.39	0.57
1:S6:47:GLU:CG	1:CS:22:LEU:CB	2.82	0.57
2:f6:15:TYR:HE2	1:QQ:152:ALA:HB2	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i6:25:PHE:CE1	1:BJ:126:VAL:HG12	2.39	0.57
1:C7:20:SER:CA	1:CK:47:GLU:CG	2.79	0.57
1:C7:143:GLN:HB2	1:CK:57:LYS:HB3	1.87	0.57
1:I7:38:LYS:HD3	1:gR:222:SER:CA	2.35	0.57
1:I7:45:MET:HE1	1:iR:13:LEU:HD11	1.85	0.57
1:J7:255:ILE:HG23	1:J7:261:ILE:HG12	1.86	0.57
1:Q7:206:LEU:HD11	1:S7:244:ASP:OD1	2.03	0.57
1:Q7:248:SER:OG	1:RQ:202:PHE:HD2	1.86	0.57
1:R7:166:LEU:HG	1:S7:96:PRO:HD2	1.86	0.57
1:S7:170:GLU:HG3	1:S7:382:LYS:HE2	1.85	0.57
1:Y7:371:GLU:OE1	1:JR:111:ARG:CD	2.44	0.57
1:g7:45:MET:HE1	1:CE:13:LEU:HD11	1.85	0.57
1:h7:166:LEU:HG	1:i7:96:PRO:HD2	1.86	0.57
1:i7:355:TYR:HB3	1:i7:379:TYR:HB3	1.85	0.57
1:S8:137:ASP:HB3	1:IG:50:VAL:HG23	1.86	0.57
1:Y8:314:GLY:O	1:bQ:31:LYS:HG2	2.04	0.57
1:h8:166:LEU:HG	1:i8:96:PRO:HD2	1.86	0.57
1:i8:143:GLN:C	1:BD:82:ILE:CG1	2.77	0.57
1:j8:34:THR:HG21	1:KL:122:GLY:H	1.69	0.57
5:D9:40:THR:CG2	3:AF:197:VAL:HG11	2.27	0.57
3:AA:10:VAL:HG22	5:DH:44:SER:HB3	1.84	0.57
3:AA:202:ASN:ND2	5:DN:38:TYR:HA	2.19	0.57
1:AD:54:LEU:HA	3:AM:29:ARG:HH11	1.67	0.57
1:AD:375:TRP:CD2	1:KK:368:GLU:OE2	2.31	0.57
1:CD:57:LYS:HB3	1:YG:143:GLN:HB2	1.87	0.57
1:SE:46:PHE:CD1	1:JQ:85:TYR:CE2	2.91	0.57
1:aE:255:ILE:HG23	1:aE:261:ILE:HG12	1.85	0.57
5:EF:37:ASP:CB	3:AO:197:VAL:CG2	2.74	0.57
1:DG:98:ASN:HD22	1:DG:99:MET:H	1.52	0.57
1:IG:206:LEU:HD11	1:KG:244:ASP:OD1	2.03	0.57
1:IG:255:ILE:HG23	1:IG:261:ILE:HG12	1.85	0.57
1:RG:255:ILE:HG23	1:RG:261:ILE:HG12	1.87	0.57
1:CJ:271:ILE:HD13	2:EJ:45:ILE:HD12	1.86	0.57
1:KJ:36:GLY:HA3	1:AP:119:LYS:HD2	1.84	0.57
1:LJ:57:LYS:HE2	1:JS:61:THR:HG23	1.69	0.57
1:LJ:238:ILE:HA	1:LJ:346:ASP:HA	1.86	0.57
1:AK:244:ASP:OD2	1:KK:210:ASN:ND2	2.37	0.57
1:LK:367:PRO:CB	1:DP:361:LYS:HB3	2.34	0.57
1:CL:208:LEU:HD12	1:CL:391:ILE:CD1	2.24	0.57
1:BL:261:ILE:HG12	1:BL:261:ILE:O	2.03	0.57
1:IL:31:LYS:HG2	1:IQ:314:GLY:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IL:38:LYS:HE2	1:IQ:221:ALA:O	2.04	0.57
2:ML:44:GLN:OE1	2:ML:44:GLN:HA	2.02	0.57
3:AN:104:GLN:CB	2:MP:9:SER:CA	2.73	0.57
1:KQ:122:GLY:H	1:bR:34:THR:HG21	1.69	0.57
1:YQ:98:ASN:HD22	1:YQ:99:MET:H	1.52	0.57
1:bQ:206:LEU:HD11	1:dQ:244:ASP:OD1	2.03	0.57
1:cQ:259:PHE:N	1:cQ:259:PHE:CD2	2.71	0.57
1:JR:255:ILE:HG23	1:JR:261:ILE:HG12	1.87	0.57
1:iR:261:ILE:O	1:iR:261:ILE:HG12	2.03	0.57
1:BS:129:GLN:NE2	1:BS:159:LYS:O	2.36	0.57
1:C1:45:MET:HE1	1:dQ:13:LEU:HD11	1.85	0.57
1:C1:46:PHE:CD1	1:A6:85:TYR:CE2	2.91	0.57
1:C1:50:VAL:HG21	1:dQ:134:ASN:HD22	1.70	0.57
1:D1:129:GLN:NE2	1:D1:159:LYS:O	2.37	0.57
1:I1:45:MET:HE1	1:UE:13:LEU:HD11	1.85	0.57
1:I1:134:ASN:HD22	1:UE:50:VAL:HG21	1.70	0.57
1:Q1:221:ALA:O	1:Q8:38:LYS:HE2	2.04	0.57
1:R1:100:ASP:OD1	1:CS:27:HIS:C	2.47	0.57
1:R1:206:LEU:O	1:Q6:244:ASP:OD2	2.20	0.57
1:X1:45:MET:HE1	1:K8:13:LEU:HD11	1.85	0.57
1:X1:248:SER:OG	1:J6:202:PHE:HD2	1.86	0.57
1:Y1:166:LEU:HG	1:Z1:96:PRO:HD2	1.86	0.57
1:f1:206:LEU:HD11	1:h1:244:ASP:OD1	2.03	0.57
3:A2:10:VAL:HG22	5:DA:44:SER:HB3	1.85	0.57
3:A2:197:VAL:CB	5:EA:37:ASP:HB2	2.33	0.57
3:A2:258:LYS:CE	3:AB:311:ILE:HD12	2.34	0.57
1:K3:137:ASP:HB3	1:I4:50:VAL:HG23	1.86	0.57
1:Q3:71:ARG:HE	2:P8:30:MET:HG3	1.70	0.57
1:S3:50:VAL:HG21	1:CR:134:ASN:HD22	1.70	0.57
1:C4:71:ARG:HE	2:XG:30:MET:HG3	1.70	0.57
1:A4:89:TYR:HE1	1:QG:61:THR:CG2	2.16	0.57
1:A4:166:LEU:HG	1:B4:96:PRO:HD2	1.86	0.57
1:I4:152:ALA:HB2	2:X8:15:TYR:HE2	1.67	0.57
2:M4:44:GLN:OE1	2:M4:44:GLN:HA	2.02	0.57
1:Q4:20:SER:HB2	1:KL:47:GLU:CB	2.20	0.57
1:Q4:31:LYS:HG2	1:IL:314:GLY:O	2.04	0.57
1:Q4:46:PHE:HD1	1:h8:85:TYR:OH	1.87	0.57
1:T4:98:ASN:HD22	1:T4:99:MET:H	1.52	0.57
1:X4:50:VAL:HG21	1:BR:134:ASN:HD22	1.70	0.57
1:X4:300:TYR:CA	1:Z8:115:ARG:HH22	2.16	0.57
1:Y4:259:PHE:HE1	1:Y8:259:PHE:HE1	1.48	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e4:30:MET:HG3	1:Y8:71:ARG:HE	1.70	0.57
1:g4:100:ASP:CA	1:DK:25:PHE:O	2.50	0.57
3:A5:153:ASP:HA	3:A5:156:ILE:HG22	1.85	0.57
4:B5:143:ASN:HA	4:BN:196:SER:HA	1.87	0.57
5:N5:228:ARG:NH2	5:CN:264:GLY:C	2.62	0.57
1:C6:38:LYS:HE2	1:gG:221:ALA:O	2.04	0.57
1:C6:45:MET:HE1	1:iG:13:LEU:HD11	1.85	0.57
1:C6:50:VAL:HG21	1:iG:134:ASN:HD22	1.70	0.57
1:K6:261:ILE:O	1:K6:261:ILE:HG12	2.03	0.57
1:Q6:141:ASN:OD1	1:CJ:51:ASN:CG	2.47	0.57
1:b6:129:GLN:NE2	1:b6:159:LYS:O	2.37	0.57
1:h6:210:ASN:ND2	1:AE:71:ARG:NH2	2.29	0.57
1:C7:81:PHE:O	1:DP:139:ARG:HB3	2.04	0.57
1:A7:166:LEU:HG	1:B7:96:PRO:HD2	1.86	0.57
1:Q7:50:VAL:HG21	1:aL:134:ASN:HD22	1.70	0.57
1:Q7:259:PHE:HE1	1:RQ:259:PHE:HE1	1.48	0.57
1:Y7:206:LEU:HD11	1:a7:244:ASP:OD1	2.03	0.57
1:Z7:166:LEU:HG	1:a7:96:PRO:HD2	1.86	0.57
1:b7:98:ASN:HD22	1:b7:99:MET:H	1.52	0.57
1:g7:221:ALA:O	1:C8:38:LYS:HE2	2.05	0.57
1:g7:255:ILE:HG23	1:g7:261:ILE:HG12	1.86	0.57
1:g7:314:GLY:O	1:C8:31:LYS:HG2	2.04	0.57
1:i7:13:LEU:HD11	1:C8:45:MET:HE1	1.85	0.57
1:i7:50:VAL:HG21	1:C8:134:ASN:HD22	1.70	0.57
1:i7:134:ASN:HD22	1:C8:50:VAL:HG21	1.70	0.57
1:D8:98:ASN:HD22	1:D8:99:MET:H	1.52	0.57
1:R8:259:PHE:N	1:R8:259:PHE:CD2	2.71	0.57
1:g8:148:ALA:HB3	2:MS:15:TYR:HE2	1.46	0.57
3:A9:208:LYS:HB3	4:BC:251:TRP:NE1	2.19	0.57
5:EB:140:ASP:O	5:CB:143:LYS:CD	2.50	0.57
5:FB:41:ASN:CG	4:BM:38:GLN:NE2	2.51	0.57
1:CD:22:LEU:O	1:CD:26:ASN:HB2	2.04	0.57
1:DD:265:ASP:OD2	2:GD:41:TYR:CD1	2.57	0.57
1:KD:364:PHE:CZ	1:JS:108:MET:SD	2.97	0.57
1:KD:369:PHE:HZ	1:JS:107:LEU:CB	2.13	0.57
1:LD:39:TRP:HB2	1:DK:120:LEU:HB2	1.87	0.57
1:LD:174:MET:HE3	1:YG:33:TRP:H	0.76	0.57
1:LD:238:ILE:HA	1:LD:346:ASP:HA	1.86	0.57
1:DE:98:ASN:HD22	1:DE:99:MET:H	1.52	0.57
1:DE:109:LEU:C	1:LP:105:GLU:HG3	2.29	0.57
1:AE:206:LEU:HD11	1:CE:244:ASP:OD1	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:11:MET:HB2	1:CP:372:VAL:CG1	2.28	0.57
1:SE:255:ILE:HG23	1:SE:261:ILE:HG12	1.86	0.57
1:TE:166:LEU:HG	1:UE:96:PRO:HD2	1.86	0.57
1:aE:221:ALA:O	1:CG:38:LYS:HE2	2.04	0.57
1:CG:255:ILE:HG23	1:CG:261:ILE:HG12	1.85	0.57
1:TG:98:ASN:HD22	1:TG:99:MET:H	1.52	0.57
2:nG:30:MET:HG3	1:CL:71:ARG:HE	1.70	0.57
5:CI:264:GLY:C	5:NO:228:ARG:NH2	2.62	0.57
1:AJ:130:LYS:HB2	1:JS:368:GLU:OE2	2.05	0.57
1:KJ:38:LYS:HB3	1:AP:222:SER:HA	1.87	0.57
1:LJ:39:TRP:O	1:CS:222:SER:CB	2.52	0.57
1:LJ:133:LEU:HG	2:ES:11:MET:HB3	1.79	0.57
1:CK:271:ILE:HD13	2:EK:45:ILE:HD12	1.86	0.57
2:GK:31:SER:HB3	2:MK:45:ILE:HD11	1.85	0.57
1:LK:39:TRP:CD2	1:DP:120:LEU:HD13	2.40	0.57
1:CL:206:LEU:HD11	1:BL:244:ASP:OD1	2.03	0.57
1:IL:206:LEU:HD11	1:KL:244:ASP:OD1	2.03	0.57
1:YL:38:LYS:HE2	1:QR:221:ALA:O	2.04	0.57
1:ZL:255:ILE:HG23	1:ZL:261:ILE:HG12	1.86	0.57
3:AM:233:GLU:OE1	3:AO:228:ILE:HD12	2.01	0.57
3:AO:36:LEU:HB3	1:IS:145:LEU:CD1	2.34	0.57
1:KP:347:ILE:HG12	2:MP:48:LEU:HB3	1.86	0.57
1:KQ:261:ILE:HG12	1:KQ:261:ILE:O	2.03	0.57
1:YQ:172:ARG:HH12	1:YQ:277:GLY:H	1.50	0.57
1:QR:255:ILE:HG23	1:QR:261:ILE:HG12	1.86	0.57
1:IS:244:ASP:OD2	1:JS:210:ASN:ND2	2.37	0.57
1:C1:38:LYS:HE2	1:bQ:221:ALA:O	2.04	0.57
1:C1:371:GLU:OE1	1:A6:111:ARG:CD	2.44	0.57
1:A1:85:TYR:CE2	1:C6:46:PHE:CD1	2.91	0.57
1:I1:31:LYS:HG2	1:SE:314:GLY:O	2.04	0.57
1:I1:38:LYS:HE2	1:SE:221:ALA:O	2.05	0.57
1:I1:50:VAL:HG21	1:UE:134:ASN:HD22	1.70	0.57
1:I1:71:ARG:HE	2:PG:30:MET:HG3	1.70	0.57
1:I1:248:SER:OG	1:JG:202:PHE:HD2	1.86	0.57
1:R1:101:LEU:HD21	1:CS:136:ASN:HD21	1.70	0.57
2:W1:5:ASN:N	1:CS:153:LEU:HD11	2.12	0.57
1:X1:50:VAL:HG21	1:K8:134:ASN:HD22	1.70	0.57
1:X1:221:ALA:O	1:IR:38:LYS:HE2	2.04	0.57
1:f1:314:GLY:O	1:QG:31:LYS:HG2	2.04	0.57
5:D2:40:THR:CG2	3:AM:197:VAL:HG11	2.27	0.57
1:B3:122:GLY:H	1:DQ:34:THR:HG21	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H3:30:MET:HG3	1:g7:71:ARG:HE	1.70	0.57
1:K3:261:ILE:O	1:K3:261:ILE:HG12	2.03	0.57
1:K3:355:TYR:HB3	1:K3:379:TYR:HB3	1.85	0.57
1:Q3:314:GLY:O	1:CR:31:LYS:HG2	2.04	0.57
1:S3:122:GLY:H	1:dE:34:THR:HG21	1.69	0.57
1:b3:129:GLN:NE2	1:b3:159:LYS:O	2.37	0.57
1:C4:222:SER:CA	1:aE:38:LYS:HD3	2.35	0.57
1:A4:85:TYR:OH	1:QG:46:PHE:HD1	1.87	0.57
2:P4:30:MET:HG3	1:C8:71:ARG:HE	1.70	0.57
1:S4:134:ASN:HD22	1:IQ:50:VAL:HG21	1.70	0.57
2:W4:30:MET:HG3	1:g8:71:ARG:HE	1.70	0.57
1:X4:45:MET:HE1	1:BR:13:LEU:HD11	1.85	0.57
1:a4:98:ASN:HD22	1:a4:99:MET:H	1.52	0.57
1:f4:31:LYS:HG2	1:C6:314:GLY:O	2.04	0.57
1:f4:300:TYR:CA	1:ZG:115:ARG:HH22	2.16	0.57
5:E5:57:GLU:HA	4:BH:33:TYR:CZ	2.37	0.57
5:E5:66:TYR:HB2	5:EN:10:TYR:CZ	2.31	0.57
1:B6:355:TYR:HB3	1:B6:379:TYR:HB3	1.85	0.57
1:D6:129:GLN:NE2	1:D6:159:LYS:O	2.37	0.57
2:X6:15:TYR:HE2	1:Q8:152:ALA:HB2	1.67	0.57
1:g6:80:ASP:OD2	1:DJ:145:LEU:CD2	2.44	0.57
1:g6:141:ASN:OD1	1:CP:51:ASN:CG	2.47	0.57
1:i6:137:ASP:HB3	1:DJ:50:VAL:CG2	2.35	0.57
1:B7:25:PHE:CE1	1:BP:126:VAL:HG12	2.40	0.57
1:B7:122:GLY:H	1:DE:34:THR:HG21	1.69	0.57
1:B7:137:ASP:HB3	1:DP:50:VAL:CG2	2.35	0.57
1:I7:71:ARG:HE	2:iQ:30:MET:HG3	1.70	0.57
1:L7:129:GLN:NE2	1:L7:159:LYS:O	2.37	0.57
1:Q7:46:PHE:HD1	1:RQ:85:TYR:OH	1.87	0.57
1:Q7:46:PHE:CD1	1:RQ:85:TYR:CE2	2.91	0.57
1:Q7:314:GLY:O	1:QR:31:LYS:HG2	2.04	0.57
1:R7:259:PHE:N	1:R7:259:PHE:CD2	2.71	0.57
1:S7:134:ASN:HD22	1:QR:50:VAL:HG21	1.70	0.57
1:T7:129:GLN:NE2	1:T7:159:LYS:O	2.37	0.57
1:Y7:71:ARG:HH22	1:JR:210:ASN:HD21	1.43	0.57
1:Z7:85:TYR:OH	1:IR:46:PHE:HD1	1.87	0.57
1:I8:45:MET:HE1	1:KR:13:LEU:HD11	1.85	0.57
1:I8:50:VAL:HG21	1:KR:134:ASN:HD22	1.70	0.57
1:J8:368:GLU:OE1	1:L8:375:TRP:NE1	2.35	0.57
1:i8:137:ASP:HB3	1:DD:50:VAL:CG2	2.35	0.57
3:A9:149:GLN:NE2	1:AK:146:ALA:HB3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A9:153:ASP:HA	3:A9:156:ILE:HG22	1.85	0.57
5:F9:31:PHE:CE2	5:FA:47:ASP:CA	2.86	0.57
3:AB:154:ILE:HD13	1:AD:365:HIS:CE1	2.40	0.57
5:DB:85:PRO:HG3	5:EB:91:LEU:HD11	1.86	0.57
1:BD:96:PRO:HD2	1:DD:166:LEU:HD13	1.87	0.57
1:DD:120:LEU:HB2	1:KS:39:TRP:HB2	1.87	0.57
2:MD:8:ARG:HH22	1:KK:374:HIS:CG	2.22	0.57
1:DE:129:GLN:NE2	1:DE:159:LYS:O	2.37	0.57
1:CE:100:ASP:CB	1:CP:26:ASN:O	2.53	0.57
1:FE:129:GLN:NE2	1:FE:159:LYS:O	2.37	0.57
1:SE:71:ARG:HE	2:PQ:30:MET:HG3	1.70	0.57
1:SE:208:LEU:CD1	1:SE:391:ILE:HD12	1.95	0.57
1:VE:172:ARG:HH12	1:VE:277:GLY:H	1.51	0.57
1:aE:93:ASP:O	1:aE:115:ARG:NH2	2.38	0.57
1:bE:166:LEU:HG	1:cE:96:PRO:HD2	1.86	0.57
4:BF:251:TRP:NE1	3:AO:208:LYS:HB3	2.20	0.57
1:AG:255:ILE:HG23	1:AG:261:ILE:HG12	1.87	0.57
1:DG:172:ARG:HH12	1:DG:277:GLY:H	1.50	0.57
1:aG:25:PHE:CE1	1:BK:126:VAL:HG12	2.40	0.57
1:bG:98:ASN:HD22	1:bG:99:MET:H	1.52	0.57
3:AI:39:LEU:O	3:AI:63:ARG:NH1	2.36	0.57
1:CJ:166:LEU:HG	1:LJ:96:PRO:HD2	1.87	0.57
1:CJ:177:ASP:OD1	1:CJ:181:ASN:ND2	2.37	0.57
1:KJ:374:HIS:CG	2:MP:8:ARG:HH22	2.22	0.57
1:LJ:38:LYS:CD	1:CS:119:LYS:HZ1	2.15	0.57
1:LJ:39:TRP:CD2	1:CS:120:LEU:HD13	2.40	0.57
1:CK:116:MET:HE3	1:jR:51:ASN:HD22	1.57	0.57
1:KK:105:GLU:O	1:DP:109:LEU:HD12	1.90	0.57
1:KK:352:TYR:HE1	1:KK:382:LYS:HE3	1.70	0.57
1:KL:261:ILE:O	1:KL:261:ILE:HG12	2.03	0.57
1:TL:98:ASN:HD22	1:TL:99:MET:H	1.52	0.57
3:AN:197:VAL:HG11	5:DO:40:THR:CG2	2.27	0.57
1:CP:166:LEU:HG	1:LP:96:PRO:HD2	1.87	0.57
1:IQ:206:LEU:HD11	1:KQ:244:ASP:OD1	2.03	0.57
1:DR:129:GLN:NE2	1:DR:159:LYS:O	2.37	0.57
1:KR:355:TYR:HB3	1:KR:379:TYR:HB3	1.85	0.57
1:Q1:71:ARG:HE	2:X6:30:MET:HG3	1.70	0.57
1:T1:98:ASN:HD22	1:T1:99:MET:H	1.52	0.57
1:Z1:14:VAL:CG2	1:IR:14:VAL:HG23	2.35	0.57
1:f1:38:LYS:HD3	1:C3:222:SER:CA	2.35	0.57
1:h1:47:GLU:CB	1:QG:20:SER:HB2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j1:44:GLN:OE1	2:j1:44:GLN:HA	2.02	0.57
4:B2:143:ASN:HA	4:BB:196:SER:HA	1.87	0.57
5:N2:228:ARG:NH2	5:CB:264:GLY:C	2.62	0.57
1:C3:50:VAL:HG21	1:SG:134:ASN:HD22	1.70	0.57
1:I3:38:LYS:HE2	1:QL:221:ALA:O	2.04	0.57
1:J3:259:PHE:N	1:J3:259:PHE:CD2	2.71	0.57
1:Q3:255:ILE:HG23	1:Q3:261:ILE:HG12	1.86	0.57
1:b3:375:TRP:CE3	1:BD:367:PRO:CG	2.87	0.57
1:J4:202:PHE:HD2	1:C8:248:SER:OG	1.86	0.57
1:R4:106:GLU:N	1:BD:109:LEU:HD12	2.18	0.57
1:S4:50:VAL:HG21	1:IQ:134:ASN:HD22	1.70	0.57
1:S4:100:ASP:CB	1:BS:26:ASN:O	2.53	0.57
1:T4:32:SER:HA	1:BS:125:ILE:HD11	1.86	0.57
1:Y4:85:TYR:OH	1:Y8:46:PHE:HD1	1.87	0.57
1:f4:46:PHE:HD1	1:ZG:85:TYR:OH	1.87	0.57
5:E5:140:ASP:O	5:C5:143:LYS:CD	2.50	0.57
1:C6:31:LYS:HG2	1:gG:314:GLY:O	2.04	0.57
1:Q6:143:GLN:HB2	1:CJ:57:LYS:HB3	1.87	0.57
1:S6:25:PHE:HE1	1:AS:126:VAL:HG12	1.68	0.57
1:Y6:206:LEU:HD11	1:a6:244:ASP:OD1	2.03	0.57
1:i6:143:GLN:C	1:BJ:82:ILE:CG1	2.77	0.57
1:j6:129:GLN:NE2	1:j6:159:LYS:O	2.37	0.57
1:I7:206:LEU:HD11	1:K7:244:ASP:OD1	2.03	0.57
1:Q7:50:VAL:HG23	1:aL:137:ASP:HB3	1.86	0.57
1:Q7:93:ASP:O	1:Q7:115:ARG:NH2	2.38	0.57
1:R7:89:TYR:HE1	1:QQ:61:THR:CG2	2.16	0.57
1:Y7:38:LYS:HE2	1:QQ:221:ALA:O	2.04	0.57
1:Y7:50:VAL:HG21	1:SQ:134:ASN:HD22	1.70	0.57
1:a7:134:ASN:HD22	1:KE:50:VAL:HG21	1.70	0.57
1:b7:129:GLN:NE2	1:b7:159:LYS:O	2.37	0.57
2:f7:30:MET:HG3	1:IR:71:ARG:HE	1.70	0.57
1:I8:255:ILE:HG23	1:I8:261:ILE:HG12	1.85	0.57
1:S8:355:TYR:HB3	1:S8:379:TYR:HB3	1.85	0.57
3:A9:311:ILE:HD12	3:AA:258:LYS:CE	2.34	0.57
5:E9:140:ASP:O	5:C9:143:LYS:CD	2.50	0.57
3:AC:197:VAL:CG2	5:EN:37:ASP:CB	2.74	0.57
1:AD:118:THR:CG2	1:KK:53:TYR:HB3	2.32	0.57
1:KD:261:ILE:HG21	1:KD:265:ASP:OD2	2.03	0.57
1:BE:106:GLU:N	1:BJ:109:LEU:HD12	2.19	0.57
1:CE:355:TYR:HB3	1:CE:379:TYR:HB3	1.85	0.57
1:NE:129:GLN:NE2	1:NE:159:LYS:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZE:30:MET:HG3	1:IQ:71:ARG:HE	1.70	0.57
1:QG:152:ALA:HB2	2:HQ:15:TYR:HE2	1.67	0.57
1:YG:81:PHE:O	1:DK:139:ARG:HB3	2.04	0.57
3:AH:204:ALA:O	3:AN:181:SER:OG	2.18	0.57
5:FH:31:PHE:CE2	5:FN:47:ASP:HA	2.40	0.57
3:AI:207:VAL:HG13	3:AO:183:ILE:HG12	1.86	0.57
3:AI:311:ILE:HD12	3:AO:258:LYS:CE	2.34	0.57
1:BJ:130:LYS:O	1:BJ:159:LYS:NZ	2.38	0.57
1:CJ:240:ILE:HD11	1:CJ:270:VAL:HG13	1.87	0.57
1:KJ:55:PHE:CE1	1:AP:120:LEU:HD11	2.27	0.57
1:KJ:105:GLU:HA	1:JS:369:PHE:CE2	2.40	0.57
1:LJ:39:TRP:HB2	1:CS:120:LEU:HB2	1.87	0.57
1:AK:130:LYS:CB	1:KP:368:GLU:OE2	2.53	0.57
1:AK:130:LYS:HB2	1:KP:368:GLU:OE2	2.05	0.57
1:BK:137:ASP:OD2	1:jR:49:PHE:CA	2.52	0.57
1:DL:129:GLN:NE2	1:DL:159:LYS:O	2.37	0.57
1:IL:38:LYS:HD3	1:IQ:222:SER:CA	2.35	0.57
1:QL:71:ARG:HE	2:XR:30:MET:HG3	1.70	0.57
1:RL:206:LEU:O	1:QR:244:ASP:OD2	2.20	0.57
1:gL:129:GLN:NE2	1:gL:159:LYS:O	2.37	0.57
3:AM:258:LYS:CE	3:AO:311:ILE:HD12	2.34	0.57
1:KP:298:ARG:NH1	1:KP:302:ASP:O	2.37	0.57
1:JQ:255:ILE:HG23	1:JQ:261:ILE:HG12	1.87	0.57
2:UQ:44:GLN:OE1	2:UQ:44:GLN:HA	2.02	0.57
1:YQ:129:GLN:NE2	1:YQ:159:LYS:O	2.37	0.57
2:ER:44:GLN:OE1	2:ER:44:GLN:HA	2.02	0.57
1:BS:134:ASN:ND2	1:BS:137:ASP:OD1	2.38	0.57
1:BS:177:ASP:OD1	1:BS:181:ASN:ND2	2.37	0.57
1:JS:298:ARG:NH1	1:JS:302:ASP:O	2.37	0.57
1:C1:314:GLY:O	1:Y8:31:LYS:HG2	2.04	0.57
1:Q1:50:VAL:HG21	1:KG:134:ASN:HD22	1.70	0.57
1:R1:81:PHE:HZ	1:CJ:136:ASN:O	1.84	0.57
2:W1:11:MET:HG3	1:CS:133:LEU:HB3	1.84	0.57
1:Z1:13:LEU:HD11	1:IR:45:MET:HE1	1.85	0.57
1:Z1:122:GLY:H	1:b7:34:THR:HG21	1.69	0.57
1:h1:50:VAL:HG21	1:QG:134:ASN:HD22	1.70	0.57
1:C3:71:ARG:HE	2:n7:30:MET:HG3	1.70	0.57
1:C3:134:ASN:HD22	1:SG:50:VAL:HG21	1.70	0.57
1:A3:255:ILE:HG23	1:A3:261:ILE:HG12	1.87	0.57
1:Y3:129:GLN:NE2	1:Y3:159:LYS:O	2.37	0.57
1:C4:31:LYS:HG2	1:CG:314:GLY:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D4:98:ASN:HD22	1:D4:99:MET:H	1.52	0.57
1:I4:321:VAL:O	1:I4:321:VAL:HG13	2.03	0.57
1:J4:85:TYR:OH	1:C8:46:PHE:HD1	1.87	0.57
1:Q4:248:SER:OG	1:h8:202:PHE:HD2	1.86	0.57
1:T4:374:HIS:CG	2:GS:8:ARG:NH1	2.66	0.57
1:Y4:115:ARG:HH22	1:Y8:300:TYR:CA	2.16	0.57
1:Z4:122:GLY:H	1:L8:34:THR:HG21	1.69	0.57
1:Z4:355:TYR:HB3	1:Z4:379:TYR:HB3	1.85	0.57
1:g4:255:ILE:HG23	1:g4:261:ILE:HG12	1.87	0.57
1:h4:108:MET:CG	1:CD:366:ASN:OD1	2.32	0.57
2:l4:2:TYR:CB	1:DK:150:ASN:OD1	2.52	0.57
3:A5:183:ILE:HG12	3:AN:207:VAL:HG13	1.86	0.57
5:F5:47:ASP:HA	5:FN:31:PHE:CE2	2.40	0.57
1:I6:314:GLY:O	1:CL:31:LYS:HG2	2.04	0.57
1:K6:355:TYR:HB3	1:K6:379:TYR:HB3	1.85	0.57
1:S6:137:ASP:HB3	1:CS:50:VAL:CG2	2.35	0.57
1:i6:47:GLU:CB	1:DJ:20:SER:HB2	2.32	0.57
1:A7:111:ARG:CD	1:gR:371:GLU:OE1	2.44	0.57
1:I7:31:LYS:HG2	1:gR:314:GLY:O	2.04	0.57
1:I7:208:LEU:HD12	1:I7:391:ILE:CD1	2.24	0.57
1:K7:14:VAL:CG2	1:CQ:14:VAL:HG23	2.35	0.57
1:K7:50:VAL:HG21	1:CQ:134:ASN:HD22	1.70	0.57
1:Q7:38:LYS:HE2	1:YL:221:ALA:O	2.04	0.57
1:S7:13:LEU:HD11	1:QR:45:MET:HE1	1.85	0.57
1:a7:355:TYR:HB3	1:a7:379:TYR:HB3	1.85	0.57
1:J8:259:PHE:N	1:J8:259:PHE:CD2	2.71	0.57
1:S8:261:ILE:O	1:S8:261:ILE:HG12	2.03	0.57
1:T8:34:THR:HG21	1:SL:122:GLY:H	1.69	0.57
1:g8:143:GLN:HB2	1:BS:57:LYS:HB3	1.87	0.57
1:i8:47:GLU:CB	1:DD:20:SER:HB2	2.33	0.57
1:j8:98:ASN:HD22	1:j8:99:MET:H	1.52	0.57
5:F9:31:PHE:CE2	5:FA:47:ASP:HA	2.40	0.57
3:AA:207:VAL:HG13	3:AC:183:ILE:HG12	1.86	0.57
3:AC:311:ILE:HD12	3:AH:258:LYS:CE	2.34	0.57
5:EC:140:ASP:O	5:CC:143:LYS:CD	2.50	0.57
5:FC:31:PHE:CE2	5:FH:47:ASP:HA	2.40	0.57
1:CD:281:LYS:NZ	1:CD:313:VAL:O	2.38	0.57
1:DD:361:LYS:HB3	1:KS:367:PRO:CB	2.34	0.57
1:LD:125:ILE:HD11	1:YG:31:LYS:O	2.03	0.57
1:cE:122:GLY:H	1:bL:34:THR:HG21	1.69	0.57
1:AG:166:LEU:HG	1:BG:96:PRO:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:129:GLN:NE2	1:DG:159:LYS:O	2.37	0.57
1:JG:368:GLU:OE1	1:LG:375:TRP:NE1	2.35	0.57
1:aG:355:TYR:HB3	1:aG:379:TYR:HB3	1.85	0.57
5:EH:101:ILE:HA	5:EH:105:ILE:HB	1.84	0.57
1:AJ:143:GLN:HG3	3:AN:29:ARG:CD	2.27	0.57
1:AJ:237:ASP:N	1:AJ:237:ASP:OD1	2.37	0.57
1:BJ:6:THR:HG22	1:BJ:8:ASN:H	1.70	0.57
1:DJ:312:PRO:HD3	1:LP:27:HIS:ND1	2.20	0.57
1:AK:120:LEU:HD11	1:KP:55:PHE:CE1	2.27	0.57
1:KK:261:ILE:HG21	1:KK:265:ASP:OD2	2.03	0.57
1:LK:27:HIS:ND1	1:DP:312:PRO:HD3	2.20	0.57
1:LK:27:HIS:HE1	1:DP:310:THR:O	1.77	0.57
1:LK:39:TRP:HB2	1:DP:120:LEU:HB2	1.87	0.57
1:BL:50:VAL:HG21	1:YR:134:ASN:HD22	1.70	0.57
1:IL:54:LEU:HD11	1:IQ:116:MET:HE1	0.78	0.57
2:XL:30:MET:HG3	1:QR:71:ARG:HE	1.70	0.57
3:AM:39:LEU:O	3:AM:63:ARG:NH1	2.36	0.57
3:AO:158:GLU:OE2	1:IS:140:PHE:HA	2.05	0.57
1:BP:6:THR:HG22	1:BP:8:ASN:H	1.70	0.57
1:BP:96:PRO:HD2	1:DP:166:LEU:HD13	1.87	0.57
1:CP:134:ASN:ND2	1:CP:137:ASP:OD1	2.38	0.57
1:KP:261:ILE:HG22	1:KP:265:ASP:CG	2.29	0.57
1:cQ:255:ILE:HG23	1:cQ:261:ILE:HG12	1.87	0.57
1:IR:93:ASP:O	1:IR:115:ARG:NH2	2.38	0.57
1:iR:355:TYR:HB3	1:iR:379:TYR:HB3	1.85	0.57
1:AS:96:PRO:HD2	1:CS:166:LEU:HD13	1.87	0.57
1:AS:256:ALA:HA	1:BS:260:GLN:HB2	1.87	0.57
1:BS:271:ILE:HD13	2:DS:45:ILE:HD12	1.86	0.57
1:BS:281:LYS:NZ	1:BS:313:VAL:O	2.38	0.57
1:C1:31:LYS:HG2	1:bQ:314:GLY:O	2.04	0.57
1:B1:50:VAL:HG21	1:Y8:134:ASN:HD22	1.70	0.57
1:B1:261:ILE:O	1:B1:261:ILE:HG12	2.03	0.57
2:H1:53:PHE:O	1:C6:62:LEU:HD11	2.03	0.57
1:Q1:134:ASN:HD22	1:KG:50:VAL:HG21	1.70	0.57
1:T1:363:PRO:CG	2:HJ:9:SER:HB2	2.29	0.57
2:W1:30:MET:HG3	1:Q6:71:ARG:HE	1.70	0.57
1:X1:152:ALA:HB2	2:X3:15:TYR:HE2	1.67	0.57
1:X1:259:PHE:HE1	1:J6:259:PHE:HE1	1.48	0.57
1:Y1:97:ILE:HD12	1:I6:304:GLN:HG3	1.87	0.57
1:f1:50:VAL:HG21	1:B3:134:ASN:HD22	1.70	0.57
1:C3:206:LEU:HD11	1:B3:244:ASP:OD1	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:116:MET:HE1	1:I4:54:LEU:HD11	0.78	0.57
1:J3:255:ILE:HG23	1:J3:261:ILE:HG12	1.87	0.57
1:Y3:34:THR:HG21	1:aG:122:GLY:H	1.69	0.57
1:A4:202:PHE:HD2	1:QG:248:SER:OG	1.86	0.57
1:I4:62:LEU:HD11	2:H8:53:PHE:O	2.03	0.57
1:K4:134:ASN:HD22	1:QL:50:VAL:HG21	1.70	0.57
1:K4:355:TYR:HB3	1:K4:379:TYR:HB3	1.85	0.57
1:Q4:134:ASN:HD22	1:KL:50:VAL:HG21	1.70	0.57
1:Q4:152:ALA:HB2	2:fR:15:TYR:HE2	1.67	0.57
1:X4:304:GLN:CG	1:Z8:97:ILE:HD12	2.35	0.57
1:a4:129:GLN:NE2	1:a4:159:LYS:O	2.37	0.57
1:f4:259:PHE:HE1	1:ZG:259:PHE:HE1	1.48	0.57
1:h4:100:ASP:CB	1:CD:26:ASN:O	2.53	0.57
1:h4:170:GLU:HG3	1:h4:382:LYS:HE2	1.85	0.57
3:A5:202:ASN:ND2	5:DM:38:TYR:HA	2.19	0.57
1:R6:259:PHE:N	1:R6:259:PHE:CD2	2.71	0.57
1:S6:143:GLN:C	1:AS:82:ILE:CG1	2.77	0.57
1:Y6:71:ARG:NH2	1:LE:210:ASN:ND2	2.29	0.57
1:Z6:111:ARG:CD	1:KE:371:GLU:OE1	2.44	0.57
1:a6:355:TYR:HB3	1:a6:379:TYR:HB3	1.85	0.57
1:g6:368:GLU:HG2	1:LP:375:TRP:CZ2	2.37	0.57
1:i6:20:SER:OG	1:DJ:47:GLU:CG	2.49	0.57
1:A7:97:ILE:HD12	1:gR:304:GLN:HG3	1.87	0.57
1:j7:172:ARG:HH12	1:j7:277:GLY:H	1.51	0.57
1:C8:314:GLY:O	1:AE:31:LYS:HG2	2.04	0.57
1:I8:14:VAL:HG23	1:KR:14:VAL:CG2	2.35	0.57
1:L8:129:GLN:NE2	1:L8:159:LYS:O	2.37	0.57
1:R8:255:ILE:HG23	1:R8:261:ILE:HG12	1.87	0.57
1:S8:170:GLU:HG3	1:S8:382:LYS:HE2	1.85	0.57
1:Z8:255:ILE:HG23	1:Z8:261:ILE:HG12	1.87	0.57
1:a8:170:GLU:HG3	1:a8:382:LYS:HE2	1.85	0.57
3:A9:149:GLN:NE2	1:AK:146:ALA:HB2	2.19	0.57
3:AA:113:TYR:HE2	2:MK:7:MET:HE2	1.58	0.57
3:AB:258:LYS:CE	3:AF:311:ILE:HD12	2.34	0.57
5:EC:21:ILE:HG23	5:EH:55:LEU:HD21	1.76	0.57
1:BD:186:THR:HG21	1:BD:214:LYS:HD2	1.85	0.57
1:CD:71:ARG:NH1	2:HD:31:SER:OG	2.37	0.57
1:KD:108:MET:SD	1:KK:364:PHE:CZ	2.97	0.57
1:KD:368:GLU:OE2	1:IS:130:LYS:HB2	2.05	0.57
1:BE:101:LEU:HD21	1:DJ:136:ASN:HD21	1.69	0.57
1:NE:98:ASN:HD22	1:NE:99:MET:H	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SE:371:GLU:OE1	1:JQ:111:ARG:CD	2.44	0.57
1:VE:129:GLN:NE2	1:VE:159:LYS:O	2.37	0.57
1:aE:248:SER:OG	1:AR:202:PHE:HD2	1.86	0.57
5:EF:36:ALA:O	3:AO:194:ASN:OD1	2.21	0.57
5:FF:47:ASP:HA	5:FM:31:PHE:CE2	2.40	0.57
1:bG:108:MET:HE3	1:BK:367:PRO:HD2	1.87	0.57
1:bG:129:GLN:NE2	1:bG:159:LYS:O	2.37	0.57
1:gG:61:THR:CG2	1:AL:89:TYR:HE1	2.16	0.57
1:hG:255:ILE:HG23	1:hG:261:ILE:HG12	1.87	0.57
3:AH:73:ALA:O	3:AH:74:ARG:NE	2.37	0.57
1:CJ:134:ASN:ND2	1:CJ:137:ASP:OD1	2.38	0.57
1:CJ:281:LYS:NZ	1:CJ:313:VAL:O	2.38	0.57
1:DJ:162:ASP:HA	1:DJ:165:VAL:HG12	1.86	0.57
2:GJ:31:SER:OG	1:KJ:71:ARG:NH1	2.37	0.57
1:LJ:57:LYS:HZ1	1:JS:61:THR:HG22	1.68	0.57
1:CK:133:LEU:HB3	2:kR:11:MET:HG2	1.86	0.57
1:CK:177:ASP:OD1	1:CK:181:ASN:ND2	2.37	0.57
1:CK:281:LYS:NZ	1:CK:313:VAL:O	2.38	0.57
1:DK:209:GLN:HE22	1:DK:235:LEU:HB2	1.68	0.57
1:LK:372:VAL:HG11	2:FP:10:MET:C	2.30	0.57
1:AL:259:PHE:N	1:AL:259:PHE:CD2	2.71	0.57
1:BL:14:VAL:CG2	1:YR:14:VAL:HG23	2.35	0.57
1:DL:172:ARG:HH12	1:DL:277:GLY:H	1.51	0.57
3:AO:155:GLU:CB	1:IS:143:GLN:O	2.53	0.57
1:CP:177:ASP:OD1	1:CP:181:ASN:ND2	2.37	0.57
1:BQ:355:TYR:HB3	1:BQ:379:TYR:HB3	1.85	0.57
1:KQ:355:TYR:HB3	1:KQ:379:TYR:HB3	1.85	0.57
1:aR:355:TYR:HB3	1:aR:379:TYR:HB3	1.85	0.57
1:C1:62:LEU:HD11	2:H6:53:PHE:O	2.03	0.57
1:I1:222:SER:CA	1:Y6:38:LYS:HD3	2.35	0.57
1:J1:259:PHE:N	1:J1:259:PHE:CD2	2.71	0.57
1:Q1:31:LYS:HG2	1:IG:314:GLY:O	2.04	0.57
1:Q1:93:ASP:O	1:Q1:115:ARG:NH2	2.38	0.57
1:Q1:255:ILE:HG23	1:Q1:261:ILE:HG12	1.85	0.57
1:S1:50:VAL:HG21	1:Q8:134:ASN:HD22	1.70	0.57
1:S1:122:GLY:H	1:L3:34:THR:HG21	1.69	0.57
1:X1:304:GLN:HG3	1:J6:97:ILE:HD12	1.87	0.57
1:Y1:97:ILE:HD12	1:I6:304:GLN:CG	2.35	0.57
1:Z1:50:VAL:HG21	1:IR:134:ASN:HD22	1.70	0.57
1:Z1:134:ASN:HD22	1:IR:50:VAL:HG21	1.70	0.57
1:f1:93:ASP:O	1:f1:115:ARG:NH2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f1:134:ASN:HD22	1:B3:50:VAL:HG21	1.70	0.57
1:g1:97:ILE:HD12	1:CQ:304:GLN:CG	2.35	0.57
1:h1:14:VAL:CG2	1:QG:14:VAL:HG23	2.35	0.57
2:m1:15:TYR:HE2	1:gR:152:ALA:HB2	1.67	0.57
3:A2:153:ASP:HA	3:A2:156:ILE:HG22	1.85	0.57
1:C3:50:VAL:HG23	1:SG:137:ASP:HB3	1.86	0.57
1:B3:355:TYR:HB3	1:B3:379:TYR:HB3	1.85	0.57
1:I3:134:ASN:HD22	1:SL:50:VAL:HG21	1.70	0.57
1:I3:304:GLN:HG3	1:R8:97:ILE:HD12	1.87	0.57
1:J3:97:ILE:HD12	1:Q8:304:GLN:HG3	1.87	0.57
1:Q3:54:LEU:HD11	1:X4:116:MET:HE1	0.77	0.57
2:c3:44:GLN:OE1	2:c3:44:GLN:HA	2.02	0.57
1:I4:93:ASP:O	1:I4:115:ARG:NH2	2.38	0.57
1:J4:368:GLU:OE1	1:L4:375:TRP:NE1	2.35	0.57
1:Q4:14:VAL:HG23	1:KL:14:VAL:CG2	2.35	0.57
1:Q4:93:ASP:O	1:Q4:115:ARG:NH2	2.38	0.57
1:S4:137:ASP:HB3	1:IQ:50:VAL:HG23	1.86	0.57
1:T4:172:ARG:HH12	1:T4:277:GLY:H	1.51	0.57
1:X4:38:LYS:HE2	1:CR:221:ALA:O	2.05	0.57
1:f4:134:ASN:HD22	1:B6:50:VAL:HG21	1.70	0.57
1:g4:97:ILE:HD12	1:YG:304:GLN:CG	2.35	0.57
5:C5:264:GLY:C	5:NI:228:ARG:NH2	2.62	0.57
1:K6:122:GLY:H	1:jG:34:THR:HG21	1.69	0.57
1:Z6:255:ILE:HG23	1:Z6:261:ILE:HG12	1.87	0.57
1:j6:98:ASN:HD22	1:j6:99:MET:H	1.52	0.57
1:C7:61:THR:CG2	1:hR:89:TYR:HE1	2.16	0.57
1:C7:304:GLN:HG3	1:hR:97:ILE:HD12	1.87	0.57
1:A7:97:ILE:HD12	1:gR:304:GLN:CG	2.35	0.57
1:B7:143:GLN:CA	1:BP:82:ILE:HG12	2.35	0.57
1:J7:89:TYR:HE1	1:bQ:61:THR:CG2	2.16	0.57
1:J7:259:PHE:N	1:J7:259:PHE:CD2	2.71	0.57
1:L7:172:ARG:HH12	1:L7:277:GLY:H	1.51	0.57
1:Q7:71:ARG:HE	2:XQ:30:MET:HG3	1.70	0.57
1:g7:31:LYS:HG2	1:AE:314:GLY:O	2.04	0.57
1:C8:222:SER:CA	1:AE:38:LYS:HD3	2.35	0.57
1:C8:302:ASP:CG	1:AE:29:TYR:HH	2.05	0.57
1:I8:134:ASN:HD22	1:KR:50:VAL:HG21	1.70	0.57
1:b8:34:THR:HG21	1:BR:122:GLY:H	1.69	0.57
1:b8:172:ARG:HH12	1:b8:277:GLY:H	1.51	0.57
1:g8:206:LEU:HD11	1:i8:244:ASP:OD1	2.03	0.57
5:C9:264:GLY:C	5:NA:228:ARG:NH2	2.62	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:40:THR:CG2	3:AO:197:VAL:HG11	2.27	0.57
5:EB:57:GLU:HA	4:BM:33:TYR:CZ	2.37	0.57
3:AC:208:LYS:CE	4:BN:251:TRP:CD1	2.88	0.57
1:AD:187:ASN:HB3	1:AD:391:ILE:HA	1.87	0.57
1:AD:312:PRO:CG	1:KK:27:HIS:CD2	2.88	0.57
1:CD:143:GLN:HE22	1:YG:57:LYS:HG3	1.65	0.57
2:GD:54:THR:OG1	2:LS:2:TYR:HD1	1.86	0.57
1:KD:105:GLU:HA	1:KK:369:PHE:CE2	2.40	0.57
1:KD:368:GLU:OE2	1:IS:130:LYS:CB	2.53	0.57
1:LD:372:VAL:HG11	2:FK:10:MET:C	2.30	0.57
1:CE:105:GLU:OE1	1:LP:110:LYS:HD3	2.05	0.57
1:cE:14:VAL:CG2	1:CG:14:VAL:HG23	2.35	0.57
1:cE:50:VAL:HG21	1:CG:134:ASN:HD22	1.70	0.57
5:EF:37:ASP:HB2	3:AO:197:VAL:CB	2.33	0.57
1:CG:248:SER:OG	1:ZL:202:PHE:HD2	1.86	0.57
1:AG:202:PHE:HD2	1:YL:248:SER:OG	1.86	0.57
1:IG:321:VAL:HG13	1:IG:321:VAL:O	2.03	0.57
1:QG:93:ASP:O	1:QG:115:ARG:NH2	2.38	0.57
1:aG:47:GLU:HB3	1:DK:20:SER:OG	2.04	0.57
3:AH:114:PHE:CD1	2:MP:18:SER:CB	2.83	0.57
3:AH:311:ILE:HD12	3:AN:258:LYS:CE	2.34	0.57
4:BH:189:ASN:O	4:BN:150:ASP:N	2.34	0.57
3:AI:153:ASP:HA	3:AI:156:ILE:HG22	1.85	0.57
1:AJ:43:ASN:O	5:DN:25:ARG:CZ	2.47	0.57
2:FJ:10:MET:C	1:LP:372:VAL:HG11	2.30	0.57
1:KJ:53:TYR:CE2	1:AP:223:GLY:HA2	2.33	0.57
1:KJ:298:ARG:NH1	1:KJ:302:ASP:O	2.37	0.57
1:KJ:369:PHE:CE2	1:KP:105:GLU:HA	2.40	0.57
1:LJ:55:PHE:HB3	1:CS:87:GLU:OE1	2.04	0.57
1:DK:162:ASP:HA	1:DK:165:VAL:HG12	1.86	0.57
1:KK:298:ARG:NH1	1:KK:302:ASP:O	2.37	0.57
1:LK:367:PRO:HB3	1:DP:361:LYS:HB3	1.87	0.57
1:IL:50:VAL:HG21	1:KQ:134:ASN:HD22	1.70	0.57
2:PL:30:MET:HG3	1:YR:71:ARG:HE	1.70	0.57
5:EN:140:ASP:O	5:CN:143:LYS:CD	2.50	0.57
1:BP:130:LYS:O	1:BP:159:LYS:NZ	2.38	0.57
1:DP:136:ASN:HD21	1:hR:101:LEU:HD21	1.70	0.57
1:LP:238:ILE:HA	1:LP:346:ASP:HA	1.86	0.57
1:AQ:255:ILE:HG23	1:AQ:261:ILE:HG12	1.86	0.57
1:YQ:375:TRP:CE3	1:AS:367:PRO:CG	2.87	0.57
1:bR:172:ARG:HH12	1:bR:277:GLY:H	1.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BS:22:LEU:O	1:BS:26:ASN:HB2	2.04	0.57
1:C1:14:VAL:HG23	1:dQ:14:VAL:CG2	2.35	0.56
1:A1:166:LEU:HG	1:B1:96:PRO:HD2	1.86	0.56
1:I1:314:GLY:O	1:Y6:31:LYS:HG2	2.04	0.56
1:J1:85:TYR:OH	1:IG:46:PHE:HD1	1.87	0.56
2:U1:11:MET:HG2	1:CJ:133:LEU:HB3	1.86	0.56
2:W1:2:TYR:CB	1:CS:150:ASN:OD1	2.52	0.56
1:X1:61:THR:CG2	1:J6:89:TYR:HE1	2.16	0.56
2:m1:30:MET:HG3	1:CQ:71:ARG:HE	1.70	0.56
1:K3:122:GLY:H	1:D8:34:THR:HG21	1.69	0.56
1:K3:170:GLU:HG3	1:K3:382:LYS:HE2	1.85	0.56
1:Q3:31:LYS:HG2	1:X4:314:GLY:O	2.04	0.56
1:T3:129:GLN:NE2	1:T3:159:LYS:O	2.37	0.56
1:C4:14:VAL:HG23	1:BG:14:VAL:CG2	2.35	0.56
1:I4:314:GLY:O	1:QL:31:LYS:HG2	2.04	0.56
1:K4:50:VAL:HG21	1:QL:134:ASN:HD22	1.70	0.56
1:i4:172:ARG:HH12	1:i4:277:GLY:H	1.51	0.56
2:j4:11:MET:HG2	1:CD:133:LEU:HB3	1.86	0.56
2:j4:11:MET:HG3	1:CD:133:LEU:HD23	1.84	0.56
3:A5:73:ALA:O	3:A5:74:ARG:NE	2.37	0.56
4:B5:150:ASP:N	4:BN:189:ASN:O	2.34	0.56
4:B5:251:TRP:NE1	3:AH:208:LYS:HB3	2.20	0.56
5:D5:38:TYR:HA	3:AC:202:ASN:ND2	2.19	0.56
1:A6:166:LEU:HG	1:B6:96:PRO:HD2	1.86	0.56
1:B6:261:ILE:HG12	1:B6:261:ILE:O	2.03	0.56
1:K6:50:VAL:HG21	1:CL:134:ASN:HD22	1.70	0.56
1:S6:25:PHE:CE1	1:AS:126:VAL:HG12	2.40	0.56
1:T6:108:MET:HE3	1:AS:367:PRO:HD2	1.87	0.56
1:Y6:304:GLN:CG	1:LE:97:ILE:HD12	2.35	0.56
2:f6:30:MET:HG3	1:KE:71:ARG:HE	1.70	0.56
1:g6:20:SER:CA	1:CP:47:GLU:CG	2.79	0.56
1:g6:367:PRO:CD	1:LP:375:TRP:CZ3	2.82	0.56
1:h6:97:ILE:HD12	1:AE:304:GLN:CG	2.35	0.56
1:i6:46:PHE:CZ	1:DJ:39:TRP:CH2	2.91	0.56
1:i6:122:GLY:H	1:gL:34:THR:HG21	1.69	0.56
1:j6:108:MET:HE3	1:BJ:367:PRO:HD2	1.87	0.56
2:n6:53:PHE:O	1:AE:62:LEU:HD11	2.03	0.56
1:C7:57:LYS:HG3	1:CK:143:GLN:NE2	2.09	0.56
1:C7:259:PHE:HE1	1:hR:259:PHE:HE1	1.48	0.56
1:A7:115:ARG:HH22	1:gR:300:TYR:CA	2.16	0.56
1:I7:14:VAL:HG23	1:iR:14:VAL:CG2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q7:61:THR:CG2	1:RQ:89:TYR:HE1	2.16	0.56
1:j7:98:ASN:HD22	1:j7:99:MET:H	1.52	0.56
1:j7:129:GLN:NE2	1:j7:159:LYS:O	2.37	0.56
1:a8:71:ARG:NH1	1:a8:272:SER:O	2.39	0.56
1:g8:93:ASP:O	1:g8:115:ARG:NH2	2.38	0.56
1:i8:143:GLN:CA	1:BD:82:ILE:HG12	2.35	0.56
3:AA:197:VAL:HG11	5:DN:40:THR:CG2	2.27	0.56
5:FB:47:ASP:HA	5:FF:31:PHE:CE2	2.40	0.56
3:AC:64:GLN:HG3	1:AP:146:ALA:HB3	1.83	0.56
3:AC:73:ALA:O	3:AC:74:ARG:NE	2.37	0.56
5:CC:265:LEU:CD1	5:NH:231:ASN:CA	2.74	0.56
1:AD:158:LYS:NZ	1:KD:91:ILE:O	2.37	0.56
1:CD:240:ILE:HD11	1:CD:270:VAL:HG13	1.87	0.56
1:DD:120:LEU:HD13	1:KS:39:TRP:CD2	2.40	0.56
1:LD:21:ALA:C	1:KK:47:GLU:OE1	2.39	0.56
1:LD:367:PRO:CB	1:DK:361:LYS:HB3	2.34	0.56
1:BE:255:ILE:HG23	1:BE:261:ILE:HG12	1.87	0.56
1:aE:71:ARG:HE	2:HR:30:MET:HG3	1.70	0.56
3:AF:258:LYS:CE	3:AM:311:ILE:HD12	2.34	0.56
1:IG:93:ASP:O	1:IG:115:ARG:NH2	2.38	0.56
1:KG:355:TYR:HB3	1:KG:379:TYR:HB3	1.85	0.56
1:aG:71:ARG:NH1	1:aG:272:SER:O	2.38	0.56
1:aG:143:GLN:CA	1:BK:82:ILE:HG12	2.35	0.56
3:AI:208:LYS:CE	4:BM:251:TRP:CD1	2.88	0.56
5:FI:31:PHE:CE2	5:FO:47:ASP:HA	2.40	0.56
1:DJ:361:LYS:HB3	1:LP:367:PRO:CB	2.34	0.56
1:LJ:105:GLU:HG3	1:gL:109:LEU:C	2.29	0.56
1:LJ:372:VAL:HG11	2:ES:10:MET:C	2.30	0.56
1:AK:220:ARG:O	1:KP:38:LYS:HD3	2.05	0.56
1:IL:93:ASP:O	1:IL:115:ARG:NH2	2.38	0.56
1:IL:134:ASN:HD22	1:KQ:50:VAL:HG21	1.70	0.56
1:JL:97:ILE:HD12	1:YR:304:GLN:CG	2.35	0.56
1:QL:93:ASP:O	1:QL:115:ARG:NH2	2.38	0.56
1:QL:255:ILE:HG23	1:QL:261:ILE:HG12	1.85	0.56
4:BM:144:GLN:NE2	4:BO:193:VAL:HG12	2.12	0.56
1:DP:153:LEU:CD2	2:mR:3:GLU:C	2.78	0.56
1:DP:162:ASP:HA	1:DP:165:VAL:HG12	1.86	0.56
1:CQ:93:ASP:O	1:CQ:115:ARG:NH2	2.38	0.56
1:eQ:34:THR:HG21	1:iR:122:GLY:H	1.69	0.56
1:CR:206:LEU:HD11	1:BR:244:ASP:OD1	2.03	0.56
1:RR:259:PHE:N	1:RR:259:PHE:CD2	2.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZR:255:ILE:HG23	1:ZR:261:ILE:HG12	1.86	0.56
1:C1:20:SER:HB2	1:dQ:47:GLU:CB	2.20	0.56
2:H1:30:MET:HG3	1:C6:71:ARG:HE	1.70	0.56
1:I1:93:ASP:O	1:I1:115:ARG:NH2	2.38	0.56
1:I1:371:GLU:OE1	1:JG:111:ARG:CD	2.44	0.56
1:J1:89:TYR:HE1	1:IG:61:THR:CG2	2.16	0.56
2:P1:53:PHE:O	1:IG:62:LEU:HD11	2.03	0.56
1:R1:81:PHE:CE1	1:CJ:140:PHE:CE1	2.89	0.56
1:R1:166:LEU:HG	1:S1:96:PRO:HD2	1.86	0.56
1:S1:101:LEU:O	1:LJ:111:ARG:NH1	2.37	0.56
1:T1:374:HIS:CG	2:HJ:8:ARG:NH1	2.66	0.56
1:Y1:115:ARG:HH22	1:I6:300:TYR:CA	2.16	0.56
1:Y1:255:ILE:HG23	1:Y1:261:ILE:HG12	1.87	0.56
1:Z1:71:ARG:NH1	1:Z1:272:SER:O	2.39	0.56
1:a1:59:ASN:ND2	1:bR:79:GLN:OE1	2.39	0.56
1:f1:62:LEU:HD11	2:HQ:53:PHE:O	2.03	0.56
3:A2:194:ASN:OD1	5:EA:36:ALA:O	2.21	0.56
5:F2:47:ASP:CA	5:FB:31:PHE:CE2	2.86	0.56
1:A3:166:LEU:HG	1:B3:96:PRO:HD2	1.86	0.56
2:F3:1:MET:H3	1:CE:150:ASN:HD21	1.53	0.56
1:Q3:134:ASN:HD22	1:Z4:50:VAL:HG21	1.70	0.56
1:R3:166:LEU:HG	1:S3:96:PRO:HD2	1.86	0.56
1:R3:255:ILE:HG23	1:R3:261:ILE:HG12	1.87	0.56
1:T3:98:ASN:HD22	1:T3:99:MET:H	1.52	0.56
2:U3:44:GLN:OE1	2:U3:44:GLN:HA	2.02	0.56
2:X3:30:MET:HG3	1:I8:71:ARG:HE	1.70	0.56
1:C4:45:MET:HE1	1:BG:13:LEU:HD11	1.85	0.56
1:C4:93:ASP:O	1:C4:115:ARG:NH2	2.38	0.56
1:C4:134:ASN:HD22	1:BG:50:VAL:HG21	1.70	0.56
1:C4:206:LEU:HD11	1:B4:244:ASP:OD1	2.03	0.56
1:B4:71:ARG:NH1	1:B4:272:SER:O	2.38	0.56
1:J4:111:ARG:CD	1:C8:371:GLU:OE1	2.44	0.56
1:J4:255:ILE:HG23	1:J4:261:ILE:HG12	1.87	0.56
1:S4:122:GLY:H	1:VE:34:THR:HG21	1.69	0.56
1:S4:150:ASN:HD21	2:XE:1:MET:H2	1.53	0.56
2:W4:3:GLU:C	1:DD:153:LEU:CD2	2.78	0.56
1:Z4:71:ARG:NH1	1:Z4:272:SER:O	2.38	0.56
1:h4:71:ARG:NH1	1:h4:272:SER:O	2.39	0.56
1:h4:105:GLU:OE1	1:LD:110:LYS:HD3	2.05	0.56
1:i4:8:ASN:HD21	1:i4:44:THR:HB	1.71	0.56
1:i4:33:TRP:CD2	1:CD:174:MET:HB2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:208:LYS:HB3	4:BO:251:TRP:NE1	2.19	0.56
1:C6:14:VAL:HG23	1:iG:14:VAL:CG2	2.35	0.56
1:I6:38:LYS:HE2	1:YR:221:ALA:O	2.04	0.56
1:K6:14:VAL:CG2	1:CL:14:VAL:HG23	2.35	0.56
2:M6:44:GLN:OE1	2:M6:44:GLN:HA	2.02	0.56
1:Y6:314:GLY:O	1:SE:31:LYS:HG2	2.04	0.56
1:g6:81:PHE:HD2	1:DJ:139:ARG:HD2	1.02	0.56
1:g6:371:GLU:OE1	1:BE:111:ARG:CD	2.44	0.56
1:h6:368:GLU:OE1	1:j6:375:TRP:NE1	2.35	0.56
1:A7:255:ILE:HG23	1:A7:261:ILE:HG12	1.87	0.56
1:A7:259:PHE:N	1:A7:259:PHE:CD2	2.71	0.56
1:D7:34:THR:HG21	1:BQ:122:GLY:H	1.69	0.56
1:D7:59:ASN:ND2	1:DQ:79:GLN:OE1	2.39	0.56
1:I7:134:ASN:HD22	1:iR:50:VAL:HG21	1.70	0.56
1:Q7:134:ASN:HD22	1:aL:50:VAL:HG21	1.70	0.56
1:Q7:300:TYR:CA	1:RQ:115:ARG:HH22	2.16	0.56
2:X7:30:MET:HG3	1:QQ:71:ARG:HE	1.70	0.56
1:a7:50:VAL:HG21	1:KE:134:ASN:HD22	1.70	0.56
1:A8:259:PHE:N	1:A8:259:PHE:CD2	2.71	0.56
1:J8:255:ILE:HG23	1:J8:261:ILE:HG12	1.87	0.56
1:h8:255:ILE:HG23	1:h8:261:ILE:HG12	1.87	0.56
1:h8:368:GLU:OE1	1:j8:375:TRP:NE1	2.35	0.56
1:i8:25:PHE:CE1	1:BD:126:VAL:HG12	2.40	0.56
3:A9:66:ILE:CG2	1:AK:150:ASN:HA	2.36	0.56
5:C9:265:LEU:CD1	5:NA:231:ASN:CB	2.14	0.56
5:DA:85:PRO:HG3	5:EA:91:LEU:HD11	1.86	0.56
5:FA:31:PHE:CE2	5:FC:46:TYR:CG	2.74	0.56
4:BB:251:TRP:CD1	3:AM:208:LYS:CE	2.88	0.56
1:AD:116:MET:HG3	1:KK:51:ASN:CG	2.30	0.56
1:AD:174:MET:CB	1:KK:33:TRP:CD2	2.88	0.56
1:LD:39:TRP:O	1:DK:222:SER:CB	2.52	0.56
1:CE:101:LEU:O	1:LP:111:ARG:NH1	2.37	0.56
2:JE:2:TYR:CB	1:DJ:150:ASN:OD1	2.52	0.56
2:JE:55:GLY:CA	2:NP:2:TYR:HB2	2.32	0.56
1:LE:368:GLU:OE1	1:NE:375:TRP:NE1	2.35	0.56
1:VE:98:ASN:HD22	1:VE:99:MET:H	1.52	0.56
2:WE:44:GLN:OE1	2:WE:44:GLN:HA	2.02	0.56
1:bE:255:ILE:HG23	1:bE:261:ILE:HG12	1.87	0.56
1:dE:129:GLN:NE2	1:dE:159:LYS:O	2.37	0.56
4:BF:251:TRP:CD1	3:AO:208:LYS:CE	2.88	0.56
1:TG:129:GLN:NE2	1:TG:159:LYS:O	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TG:172:ARG:HH12	1:TG:277:GLY:H	1.51	0.56
1:gG:71:ARG:HE	2:HL:30:MET:HG3	1.70	0.56
1:AJ:170:GLU:HG2	1:JS:33:TRP:HZ3	1.69	0.56
1:DJ:120:LEU:HD13	1:LP:39:TRP:CD2	2.40	0.56
1:KJ:369:PHE:HZ	1:KP:104:ASN:O	1.78	0.56
1:AK:118:THR:CG2	1:KP:53:TYR:HB3	2.32	0.56
1:AK:237:ASP:N	1:AK:237:ASP:OD1	2.37	0.56
1:BK:130:LYS:O	1:BK:159:LYS:NZ	2.38	0.56
1:BK:211:ASN:HD22	1:DK:68:LEU:HD12	1.70	0.56
1:CK:134:ASN:ND2	1:CK:137:ASP:OD1	2.38	0.56
1:CK:240:ILE:HD11	1:CK:270:VAL:HG13	1.87	0.56
1:CK:372:VAL:HG11	2:kR:11:MET:CE	2.26	0.56
1:KK:105:GLU:HA	1:KP:369:PHE:CE2	2.40	0.56
1:QL:304:GLN:CG	1:RR:97:ILE:HD12	2.35	0.56
1:YL:50:VAL:HG21	1:SR:134:ASN:HD22	1.70	0.56
3:AN:202:ASN:ND2	5:DO:38:TYR:HA	2.19	0.56
5:DN:85:PRO:HG3	5:EN:91:LEU:HD11	1.86	0.56
1:DQ:172:ARG:HH12	1:DQ:277:GLY:H	1.51	0.56
1:IQ:93:ASP:O	1:IQ:115:ARG:NH2	2.38	0.56
1:KR:71:ARG:NH1	1:KR:272:SER:O	2.38	0.56
1:YR:93:ASP:O	1:YR:115:ARG:NH2	2.38	0.56
1:C1:71:ARG:HE	2:H6:30:MET:HG3	1.70	0.56
1:C1:131:PHE:HB3	1:C1:159:LYS:HE2	1.88	0.56
1:C1:255:ILE:HG23	1:C1:261:ILE:HG12	1.85	0.56
1:D1:59:ASN:ND2	1:jG:79:GLN:OE1	2.39	0.56
1:I1:302:ASP:CG	1:Y6:29:TYR:HH	2.05	0.56
1:J1:202:PHE:HD2	1:IG:248:SER:OG	1.86	0.56
1:K1:71:ARG:NH1	1:K1:272:SER:O	2.38	0.56
1:L1:34:THR:HG21	1:S8:122:GLY:H	1.69	0.56
1:Q1:38:LYS:HE2	1:IG:221:ALA:O	2.04	0.56
1:Q1:304:GLN:CG	1:R6:97:ILE:HD12	2.35	0.56
1:R1:100:ASP:CA	1:CS:25:PHE:O	2.50	0.56
1:R1:222:SER:C	1:CJ:38:LYS:HE2	2.08	0.56
1:R1:255:ILE:HG23	1:R1:261:ILE:HG12	1.87	0.56
1:S1:134:ASN:HD22	1:Q8:50:VAL:HG21	1.70	0.56
1:T1:32:SER:HA	1:CJ:125:ILE:HD11	1.86	0.56
1:T1:59:ASN:ND2	1:gL:79:GLN:OE1	2.39	0.56
1:T1:374:HIS:CE1	2:HJ:8:ARG:HH12	2.12	0.56
1:Y1:259:PHE:N	1:Y1:259:PHE:CD2	2.71	0.56
1:a1:34:THR:HG21	1:aR:122:GLY:H	1.69	0.56
1:a1:79:GLN:OE1	1:b7:59:ASN:ND2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h1:71:ARG:NH1	1:h1:272:SER:O	2.39	0.56
2:m1:53:PHE:O	1:CQ:62:LEU:HD11	2.03	0.56
3:A2:114:PHE:HA	2:GK:25:GLU:OE1	2.06	0.56
4:B2:251:TRP:CD1	3:AF:208:LYS:CE	2.88	0.56
5:D2:38:TYR:HA	3:AM:202:ASN:ND2	2.19	0.56
5:D2:85:PRO:HG3	5:E2:91:LEU:HD11	1.86	0.56
5:F2:31:PHE:CE2	5:F9:47:ASP:HA	2.40	0.56
5:F2:47:ASP:HA	5:FB:31:PHE:CE2	2.40	0.56
1:C3:93:ASP:O	1:C3:115:ARG:NH2	2.38	0.56
1:A3:97:ILE:HD12	1:g7:304:GLN:CG	2.35	0.56
1:A3:111:ARG:CD	1:g7:371:GLU:OE1	2.44	0.56
1:B3:71:ARG:NH1	1:B3:272:SER:O	2.39	0.56
1:D3:205:ILE:HD11	1:D3:240:ILE:HD11	1.88	0.56
1:I3:61:THR:CG2	1:R8:89:TYR:HE1	2.16	0.56
1:I3:221:ALA:O	1:I4:38:LYS:HE2	2.05	0.56
1:I3:304:GLN:CG	1:R8:97:ILE:HD12	2.35	0.56
1:J3:89:TYR:HE1	1:Q8:61:THR:CG2	2.16	0.56
1:J3:97:ILE:HD12	1:Q8:304:GLN:CG	2.35	0.56
1:K3:14:VAL:CG2	1:I4:14:VAL:HG23	2.35	0.56
1:K3:71:ARG:NH1	1:K3:272:SER:O	2.38	0.56
1:Q3:38:LYS:HE2	1:X4:221:ALA:O	2.05	0.56
1:Q3:93:ASP:O	1:Q3:115:ARG:NH2	2.38	0.56
1:Q3:300:TYR:CA	1:J8:115:ARG:HH22	2.16	0.56
1:b3:34:THR:HG21	1:i8:122:GLY:H	1.69	0.56
1:C4:314:GLY:O	1:aE:31:LYS:HG2	2.04	0.56
1:A4:255:ILE:HG23	1:A4:261:ILE:HG12	1.87	0.56
1:A4:368:GLU:OE1	1:D4:375:TRP:NE1	2.35	0.56
1:B4:50:VAL:HG21	1:aE:134:ASN:HD22	1.70	0.56
1:I4:61:THR:CG2	1:A8:89:TYR:HE1	2.16	0.56
1:I4:221:ALA:O	1:QL:38:LYS:HE2	2.04	0.56
1:L4:59:ASN:ND2	1:j7:79:GLN:OE1	2.39	0.56
1:R4:98:ASN:ND2	1:DD:30:SER:HB3	2.21	0.56
1:S4:105:GLU:OE1	1:KS:110:LYS:HD3	2.05	0.56
1:T4:129:GLN:NE2	1:T4:159:LYS:O	2.37	0.56
2:W4:5:ASN:N	1:DD:153:LEU:HD11	2.12	0.56
1:X4:50:VAL:HG23	1:BR:137:ASP:HB3	1.86	0.56
1:f4:222:SER:CA	1:gG:38:LYS:HD3	2.35	0.56
1:g4:85:TYR:OH	1:YG:46:PHE:HD1	1.87	0.56
1:g4:111:ARG:CD	1:YG:371:GLU:OE1	2.44	0.56
1:g4:382:LYS:HG3	1:CD:32:SER:O	2.03	0.56
1:h4:137:ASP:HB3	1:gG:50:VAL:HG23	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i4:136:ASN:O	1:CD:81:PHE:CZ	2.53	0.56
5:E5:36:ALA:O	3:AH:194:ASN:OD1	2.22	0.56
5:F5:47:ASP:CA	5:FN:31:PHE:CE2	2.86	0.56
1:C6:20:SER:HB2	1:iG:47:GLU:CB	2.20	0.56
1:C6:131:PHE:HB3	1:C6:159:LYS:HE2	1.88	0.56
1:D6:59:ASN:ND2	1:eQ:79:GLN:OE1	2.39	0.56
1:I6:134:ASN:HD22	1:aR:50:VAL:HG21	1.70	0.56
1:I6:152:ALA:HB2	2:PL:15:TYR:HE2	1.67	0.56
1:K6:134:ASN:HD22	1:CL:50:VAL:HG21	1.70	0.56
2:N6:1:MET:H3	1:K8:150:ASN:HD21	1.53	0.56
1:Q6:30:SER:N	1:LJ:315:ALA:CB	2.69	0.56
1:Q6:367:PRO:CD	1:LJ:375:TRP:CZ3	2.82	0.56
1:S6:143:GLN:CA	1:AS:82:ILE:HG12	2.35	0.56
1:T6:8:ASN:HD21	1:T6:44:THR:HB	1.71	0.56
1:Y6:62:LEU:HD11	2:RE:53:PHE:O	2.03	0.56
1:Y6:222:SER:CA	1:SE:38:LYS:HD3	2.35	0.56
1:Z6:368:GLU:OE1	1:b6:375:TRP:NE1	2.35	0.56
1:a6:50:VAL:HG21	1:SE:134:ASN:HD22	1.70	0.56
1:a6:137:ASP:HB3	1:SE:50:VAL:HG23	1.86	0.56
1:g6:46:PHE:HD1	1:BE:85:TYR:OH	1.87	0.56
1:g6:71:ARG:HE	2:JE:30:MET:HG3	1.70	0.56
1:g6:81:PHE:O	1:DJ:139:ARG:HB3	2.04	0.56
2:n6:30:MET:HG3	1:AE:71:ARG:HE	1.70	0.56
1:B7:71:ARG:NH1	1:B7:272:SER:O	2.39	0.56
1:D7:79:GLN:OE1	1:DE:59:ASN:ND2	2.39	0.56
1:D7:108:MET:HE3	1:BP:367:PRO:HD2	1.87	0.56
1:I7:50:VAL:HG21	1:iR:134:ASN:HD22	1.70	0.56
1:I7:93:ASP:O	1:I7:115:ARG:NH2	2.38	0.56
1:L7:8:ASN:HD21	1:L7:44:THR:HB	1.71	0.56
2:P7:30:MET:HG3	1:bQ:71:ARG:HE	1.70	0.56
1:Q7:304:GLN:CG	1:RQ:97:ILE:HD12	2.35	0.56
1:S7:50:VAL:HG21	1:QR:134:ASN:HD22	1.70	0.56
1:S7:137:ASP:HB3	1:QR:50:VAL:HG23	1.86	0.56
1:T7:34:THR:HG21	1:ME:122:GLY:H	1.69	0.56
1:T7:79:GLN:OE1	1:TL:59:ASN:ND2	2.39	0.56
1:Y7:46:PHE:HD1	1:JR:85:TYR:OH	1.87	0.56
1:Z7:97:ILE:HD12	1:IR:304:GLN:CG	2.35	0.56
1:g7:38:LYS:HD3	1:AE:222:SER:CA	2.35	0.56
1:g7:93:ASP:O	1:g7:115:ARG:NH2	2.38	0.56
1:g7:131:PHE:HB3	1:g7:159:LYS:HE2	1.88	0.56
1:g7:134:ASN:HD22	1:CE:50:VAL:HG21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g7:208:LEU:CD1	1:g7:391:ILE:HD12	1.95	0.56
1:j7:34:THR:HG21	1:SG:122:GLY:H	1.69	0.56
1:C8:93:ASP:O	1:C8:115:ARG:NH2	2.38	0.56
1:B8:71:ARG:NH1	1:B8:272:SER:O	2.38	0.56
1:I8:206:LEU:HD11	1:K8:244:ASP:OD1	2.03	0.56
1:K8:71:ARG:NH1	1:K8:272:SER:O	2.39	0.56
2:M8:44:GLN:OE1	2:M8:44:GLN:HA	2.02	0.56
1:Q8:116:MET:HE1	1:IG:54:LEU:HD11	0.78	0.56
1:S8:50:VAL:HG21	1:IG:134:ASN:HD22	1.70	0.56
1:S8:71:ARG:NH1	1:S8:272:SER:O	2.38	0.56
1:Y8:93:ASP:O	1:Y8:115:ARG:NH2	2.38	0.56
1:Y8:222:SER:CA	1:bQ:38:LYS:HD3	2.35	0.56
1:a8:137:ASP:HB3	1:bQ:50:VAL:HG23	1.86	0.56
1:b8:8:ASN:HD21	1:b8:44:THR:HB	1.71	0.56
1:i8:71:ARG:NH1	1:i8:272:SER:O	2.38	0.56
1:i8:368:GLU:OE2	1:CD:107:LEU:HD22	2.04	0.56
3:A9:151:ASN:CA	1:AK:144:THR:HA	2.34	0.56
3:AA:311:ILE:HD12	3:AC:258:LYS:CE	2.34	0.56
4:BB:251:TRP:NE1	3:AM:208:LYS:HB3	2.20	0.56
5:FC:31:PHE:CE2	5:FH:47:ASP:CA	2.86	0.56
1:CD:166:LEU:HG	1:LD:96:PRO:HD2	1.87	0.56
1:KD:32:SER:HB2	1:IS:316:VAL:CG2	2.36	0.56
1:KD:38:LYS:HD3	1:IS:220:ARG:O	2.05	0.56
1:KD:261:ILE:HG23	1:KD:265:ASP:OD1	2.01	0.56
1:KD:298:ARG:NH1	1:KD:302:ASP:O	2.37	0.56
1:KD:347:ILE:HG12	2:MD:48:LEU:HB3	1.86	0.56
2:MD:2:TYR:HE2	1:KK:153:LEU:CG	2.11	0.56
1:DE:116:MET:SD	1:BP:54:LEU:HG	2.46	0.56
1:SE:93:ASP:O	1:SE:115:ARG:NH2	2.38	0.56
1:SE:131:PHE:HB3	1:SE:159:LYS:HE2	1.88	0.56
1:SE:304:GLN:CG	1:JQ:97:ILE:HD12	2.35	0.56
1:VE:79:GLN:OE1	1:LG:59:ASN:ND2	2.39	0.56
1:aE:206:LEU:HD11	1:cE:244:ASP:OD1	2.03	0.56
1:aE:304:GLN:CG	1:AR:97:ILE:HD12	2.35	0.56
1:bE:97:ILE:HD12	1:CR:304:GLN:CG	2.35	0.56
1:bE:111:ARG:CD	1:CR:371:GLU:OE1	2.44	0.56
1:bE:115:ARG:HH22	1:CR:300:TYR:CA	2.16	0.56
1:dE:8:ASN:HD21	1:dE:44:THR:HB	1.71	0.56
1:dE:205:ILE:HD11	1:dE:240:ILE:HD11	1.88	0.56
3:AF:183:ILE:HG12	3:AM:207:VAL:HG13	1.86	0.56
5:DF:38:TYR:HA	3:AI:202:ASN:ND2	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CG:93:ASP:O	1:CG:115:ARG:NH2	2.38	0.56
1:CG:304:GLN:CG	1:ZL:97:ILE:HD12	2.35	0.56
1:JG:255:ILE:HG23	1:JG:261:ILE:HG12	1.87	0.56
1:aG:47:GLU:CB	1:DK:20:SER:HB2	2.33	0.56
1:aG:137:ASP:HB3	1:DK:50:VAL:CG2	2.35	0.56
1:iG:71:ARG:NH1	1:iG:272:SER:O	2.39	0.56
1:jG:129:GLN:NE2	1:jG:159:LYS:O	2.37	0.56
5:DH:85:PRO:HG3	5:EH:91:LEU:HD11	1.86	0.56
5:CH:264:GLY:C	5:NN:228:ARG:NH2	2.62	0.56
4:BI:196:SER:HA	4:BO:143:ASN:HA	1.87	0.56
4:BI:251:TRP:CD1	3:AN:208:LYS:CE	2.88	0.56
1:AJ:314:GLY:O	1:JS:31:LYS:N	2.39	0.56
1:BJ:49:PHE:O	1:BJ:52:LYS:NZ	2.39	0.56
1:BJ:98:ASN:ND2	1:LP:29:TYR:O	2.38	0.56
2:GJ:54:THR:OG1	2:MP:2:TYR:CG	2.56	0.56
1:KJ:27:HIS:CD2	1:AP:312:PRO:CG	2.88	0.56
1:KJ:145:LEU:CD1	1:AP:80:ASP:O	2.48	0.56
1:KJ:368:GLU:OE2	1:AP:130:LYS:HB2	2.04	0.56
1:AK:314:GLY:O	1:KP:31:LYS:N	2.39	0.56
1:BK:96:PRO:HD2	1:DK:166:LEU:HD13	1.87	0.56
1:CK:26:ASN:O	1:iR:100:ASP:CB	2.53	0.56
1:LK:29:TYR:O	1:BP:98:ASN:ND2	2.38	0.56
1:LK:110:LYS:HD3	1:iR:105:GLU:OE1	2.05	0.56
1:LK:157:LYS:NZ	2:FP:2:TYR:CE2	2.70	0.56
1:CL:93:ASP:O	1:CL:115:ARG:NH2	2.38	0.56
1:DL:8:ASN:HD21	1:DL:44:THR:HB	1.71	0.56
1:IL:62:LEU:HD11	2:fR:53:PHE:O	2.03	0.56
1:KL:71:ARG:NH1	1:KL:272:SER:O	2.39	0.56
1:LL:325:LYS:HB2	1:LL:325:LYS:HZ2	1.66	0.56
1:RL:166:LEU:HG	1:SL:96:PRO:HD2	1.86	0.56
2:UL:44:GLN:HA	2:UL:44:GLN:OE1	2.02	0.56
1:YL:45:MET:HE1	1:SR:13:LEU:HD11	1.85	0.56
4:BM:143:ASN:HA	4:BO:196:SER:HA	1.87	0.56
5:FM:47:ASP:CA	5:FO:31:PHE:CE2	2.86	0.56
3:AO:28:LYS:NZ	1:IS:140:PHE:HE1	2.03	0.56
1:CP:240:ILE:HD11	1:CP:270:VAL:HG13	1.87	0.56
1:CP:271:ILE:HD13	2:EP:45:ILE:HD12	1.86	0.56
1:DP:363:PRO:CG	2:mR:9:SER:HB2	2.32	0.56
1:KP:352:TYR:HE1	1:KP:382:LYS:HE3	1.70	0.56
1:CQ:208:LEU:HD12	1:CQ:391:ILE:CD1	2.24	0.56
1:CQ:221:ALA:O	1:gR:38:LYS:HE2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CQ:314:GLY:O	1:gR:31:LYS:HG2	2.04	0.56
1:BQ:50:VAL:HG21	1:gR:134:ASN:HD22	1.70	0.56
1:DQ:179:SER:HG	1:DQ:341:TYR:HH	1.48	0.56
2:EQ:44:GLN:OE1	2:EQ:44:GLN:HA	2.02	0.56
1:JQ:166:LEU:HG	1:KQ:96:PRO:HD2	1.86	0.56
1:KQ:71:ARG:NH1	1:KQ:272:SER:O	2.39	0.56
1:KQ:150:ASN:HD21	2:dR:1:MET:H3	1.52	0.56
1:LQ:205:ILE:HD11	1:LQ:240:ILE:HD11	1.88	0.56
1:dQ:71:ARG:NH1	1:dQ:272:SER:O	2.39	0.56
1:eQ:129:GLN:NE2	1:eQ:159:LYS:O	2.37	0.56
1:CR:93:ASP:O	1:CR:115:ARG:NH2	2.38	0.56
1:DR:172:ARG:HH12	1:DR:277:GLY:H	1.51	0.56
1:IR:255:ILE:HG23	1:IR:261:ILE:HG12	1.85	0.56
1:LR:129:GLN:NE2	1:LR:159:LYS:O	2.37	0.56
1:LR:172:ARG:HH12	1:LR:277:GLY:H	1.51	0.56
1:TR:8:ASN:HD21	1:TR:44:THR:HB	1.71	0.56
2:UR:44:GLN:OE1	2:UR:44:GLN:HA	2.02	0.56
1:YR:206:LEU:HD11	1:aR:244:ASP:OD1	2.03	0.56
1:YR:208:LEU:HD12	1:YR:391:ILE:CD1	2.24	0.56
1:bR:179:SER:HG	1:bR:341:TYR:HH	1.48	0.56
1:AS:211:ASN:HD22	1:CS:68:LEU:HD12	1.70	0.56
1:JS:347:ILE:HG12	2:LS:48:LEU:HB3	1.86	0.56
1:JS:352:TYR:HE1	1:JS:382:LYS:HE3	1.70	0.56
1:C1:221:ALA:O	1:Y8:38:LYS:HE2	2.05	0.56
1:I1:14:VAL:CG2	1:UE:14:VAL:HG23	2.36	0.56
1:K1:14:VAL:CG2	1:Y6:14:VAL:HG23	2.35	0.56
1:R1:97:ILE:HD12	1:Q6:304:GLN:CG	2.35	0.56
1:Y1:105:GLU:OE1	1:hG:110:LYS:HE2	2.06	0.56
1:I3:50:VAL:HG21	1:SL:134:ASN:HD22	1.70	0.56
1:J3:62:LEU:HD13	1:J3:62:LEU:N	2.21	0.56
1:Q3:367:PRO:O	1:X4:377:HIS:CE1	2.59	0.56
1:R3:105:GLU:OE1	1:J6:110:LYS:HE2	2.06	0.56
1:R3:110:LYS:HE2	1:Z7:105:GLU:OE1	2.06	0.56
1:S3:134:ASN:HD22	1:CR:50:VAL:HG21	1.70	0.56
2:Z3:44:GLN:OE1	2:Z3:44:GLN:HA	2.02	0.56
1:b3:172:ARG:HH12	1:b3:277:GLY:H	1.51	0.56
1:C4:304:GLN:HG3	1:RG:97:ILE:HD12	1.87	0.56
1:A4:97:ILE:HD12	1:QG:304:GLN:HG3	1.87	0.56
1:B4:122:GLY:H	1:DR:34:THR:HG21	1.69	0.56
1:B4:150:ASN:HD21	2:FR:1:MET:H2	1.53	0.56
1:K4:71:ARG:NH1	1:K4:272:SER:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:134:ASN:HD22	1:BR:50:VAL:HG21	1.70	0.56
1:X4:371:GLU:OE1	1:Z8:111:ARG:CD	2.44	0.56
1:f4:93:ASP:O	1:f4:115:ARG:NH2	2.38	0.56
1:f4:367:PRO:O	1:C6:377:HIS:CE1	2.59	0.56
1:C6:255:ILE:HG23	1:C6:261:ILE:HG12	1.85	0.56
1:I6:31:LYS:HG2	1:YR:314:GLY:O	2.04	0.56
1:T6:98:ASN:HD22	1:T6:99:MET:H	1.52	0.56
1:Y6:71:ARG:HE	2:RE:30:MET:HG3	1.70	0.56
1:g6:93:ASP:O	1:g6:115:ARG:NH2	2.38	0.56
1:i6:71:ARG:NH1	1:i6:272:SER:O	2.39	0.56
1:A7:105:GLU:OE1	1:cQ:110:LYS:HE2	2.06	0.56
1:B7:355:TYR:HB3	1:B7:379:TYR:HB3	1.85	0.56
1:I7:46:PHE:HD1	1:cQ:85:TYR:OH	1.87	0.56
1:I7:314:GLY:O	1:CQ:31:LYS:HG2	2.04	0.56
1:J7:85:TYR:OH	1:bQ:46:PHE:HD1	1.87	0.56
1:L7:205:ILE:HD11	1:L7:240:ILE:HD11	1.88	0.56
2:P7:53:PHE:O	1:bQ:62:LEU:HD11	2.03	0.56
1:Q7:14:VAL:HG23	1:aL:14:VAL:CG2	2.35	0.56
1:Q7:222:SER:CA	1:QR:38:LYS:HD3	2.35	0.56
1:R7:115:ARG:HH22	1:QQ:300:TYR:CA	2.16	0.56
1:Y7:71:ARG:HE	2:PR:30:MET:HG3	1.70	0.56
1:i7:14:VAL:HG23	1:C8:14:VAL:CG2	2.36	0.56
2:k7:44:GLN:HA	2:k7:44:GLN:OE1	2.02	0.56
1:I8:38:LYS:HD3	1:IR:222:SER:CA	2.35	0.56
1:J8:105:GLU:OE1	1:bE:110:LYS:HE2	2.06	0.56
1:Q8:221:ALA:O	1:IG:38:LYS:HE2	2.05	0.56
1:S8:14:VAL:CG2	1:IG:14:VAL:HG23	2.35	0.56
3:A9:204:ALA:O	3:AA:181:SER:OG	2.18	0.56
3:A9:208:LYS:CE	4:BC:251:TRP:CD1	2.88	0.56
3:AA:208:LYS:HB3	4:BH:251:TRP:NE1	2.20	0.56
4:BC:196:SER:HA	4:BH:143:ASN:HA	1.87	0.56
1:BD:130:LYS:O	1:BD:159:LYS:NZ	2.38	0.56
1:DD:361:LYS:HB3	1:KS:367:PRO:HB3	1.87	0.56
1:KD:352:TYR:HE1	1:KD:382:LYS:HE3	1.70	0.56
1:KD:369:PHE:CE2	1:JS:105:GLU:HA	2.40	0.56
1:LD:367:PRO:HB3	1:DK:361:LYS:HB3	1.87	0.56
1:AE:131:PHE:HB3	1:AE:159:LYS:HE2	1.88	0.56
1:BE:109:LEU:CD2	1:AP:108:MET:HE2	2.36	0.56
2:HE:11:MET:HG2	1:CP:133:LEU:HB3	1.86	0.56
2:JE:11:MET:HG3	1:DJ:133:LEU:HB3	1.84	0.56
1:KE:93:ASP:O	1:KE:115:ARG:NH2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ME:71:ARG:NH1	1:ME:272:SER:O	2.39	0.56
2:hE:30:MET:HG3	1:CR:71:ARG:HE	1.70	0.56
1:KG:71:ARG:NH1	1:KG:272:SER:O	2.39	0.56
1:gG:46:PHE:HD1	1:AL:85:TYR:OH	1.87	0.56
1:hG:85:TYR:OH	1:CL:46:PHE:HD1	1.87	0.56
3:AH:150:TYR:CZ	1:AP:145:LEU:HD12	2.41	0.56
3:AI:32:PHE:HE2	1:IS:55:PHE:H	1.53	0.56
1:BJ:96:PRO:HD2	1:DJ:166:LEU:HD13	1.87	0.56
1:BJ:211:ASN:HD22	1:DJ:68:LEU:HD12	1.70	0.56
1:KJ:33:TRP:CD2	1:AP:174:MET:CB	2.88	0.56
1:AK:187:ASN:HB3	1:AK:391:ILE:HA	1.87	0.56
1:DL:205:ILE:HD11	1:DL:240:ILE:HD11	1.88	0.56
1:LL:129:GLN:NE2	1:LL:159:LYS:O	2.37	0.56
1:QL:46:PHE:HD1	1:RR:85:TYR:OH	1.87	0.56
1:RL:255:ILE:HG23	1:RL:261:ILE:HG12	1.87	0.56
1:YL:14:VAL:HG23	1:SR:14:VAL:CG2	2.35	0.56
1:aL:71:ARG:NH1	1:aL:272:SER:O	2.39	0.56
1:CP:281:LYS:NZ	1:CP:313:VAL:O	2.38	0.56
1:LP:242:THR:O	1:LP:272:SER:HA	2.06	0.56
1:CQ:206:LEU:HD11	1:BQ:244:ASP:OD1	2.03	0.56
1:SQ:355:TYR:HB3	1:SQ:379:TYR:HB3	1.85	0.56
1:TQ:98:ASN:HD22	1:TQ:99:MET:H	1.52	0.56
1:CR:131:PHE:HB3	1:CR:159:LYS:HE2	1.88	0.56
1:QR:93:ASP:O	1:QR:115:ARG:NH2	2.38	0.56
1:TR:98:ASN:HD22	1:TR:99:MET:H	1.52	0.56
1:C1:377:HIS:CE1	1:Y8:367:PRO:O	2.59	0.56
1:B1:14:VAL:HG23	1:Y8:14:VAL:CG2	2.36	0.56
2:F1:1:MET:H2	1:iG:150:ASN:HD21	1.52	0.56
1:J1:105:GLU:OE1	1:R6:110:LYS:HE2	2.06	0.56
1:J1:110:LYS:HE2	1:J3:105:GLU:OE1	2.06	0.56
1:L1:8:ASN:HD21	1:L1:44:THR:HB	1.71	0.56
1:Q1:46:PHE:HD1	1:R6:85:TYR:OH	1.87	0.56
1:Q1:304:GLN:HG3	1:R6:97:ILE:HD12	1.87	0.56
1:R1:202:PHE:HD2	1:Q6:248:SER:OG	1.86	0.56
1:S1:100:ASP:CB	1:CJ:26:ASN:O	2.53	0.56
1:h1:134:ASN:HD22	1:QG:50:VAL:HG21	1.70	0.56
1:i1:129:GLN:NE2	1:i1:159:LYS:O	2.37	0.56
5:E2:36:ALA:O	3:AF:194:ASN:OD1	2.21	0.56
1:I3:131:PHE:HB3	1:I3:159:LYS:HE2	1.88	0.56
1:K3:50:VAL:HG21	1:I4:134:ASN:HD22	1.70	0.56
2:P3:30:MET:HG3	1:Q8:71:ARG:HE	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q3:50:VAL:HG21	1:Z4:134:ASN:HD22	1.70	0.56
1:Q3:116:MET:HE1	1:CR:54:LEU:HD11	0.77	0.56
1:b3:205:ILE:HD11	1:b3:240:ILE:HD11	1.88	0.56
1:A4:105:GLU:OE1	1:h7:110:LYS:HE2	2.06	0.56
1:I4:248:SER:OG	1:A8:202:PHE:HD2	1.86	0.56
1:Q4:38:LYS:HD3	1:IL:222:SER:CA	2.35	0.56
1:Q4:304:GLN:HG3	1:h8:97:ILE:HD12	1.87	0.56
1:Q4:355:TYR:HB3	1:Q4:379:TYR:HB3	1.88	0.56
1:R4:97:ILE:HD12	1:g8:304:GLN:HG3	1.87	0.56
1:f4:14:VAL:CG2	1:B6:14:VAL:HG23	2.36	0.56
1:J6:166:LEU:HG	1:K6:96:PRO:HD2	1.86	0.56
1:Y6:93:ASP:O	1:Y6:115:ARG:NH2	2.38	0.56
1:Y6:131:PHE:HB3	1:Y6:159:LYS:HE2	1.88	0.56
1:g6:27:HIS:CG	1:LP:312:PRO:HB3	2.40	0.56
1:D7:8:ASN:HD21	1:D7:44:THR:HB	1.71	0.56
1:J7:115:ARG:HH22	1:bQ:300:TYR:CA	2.16	0.56
1:K7:134:ASN:HD22	1:CQ:50:VAL:HG21	1.70	0.56
1:Y7:377:HIS:CE1	1:KE:367:PRO:O	2.59	0.56
1:Z7:255:ILE:HG23	1:Z7:261:ILE:HG12	1.87	0.56
1:g7:38:LYS:HE2	1:AE:221:ALA:O	2.05	0.56
1:i7:14:VAL:CG2	1:C8:14:VAL:HG23	2.35	0.56
1:A8:110:LYS:HE2	1:R8:105:GLU:OE1	2.06	0.56
1:B8:14:VAL:CG2	1:AE:14:VAL:HG23	2.35	0.56
1:D8:8:ASN:HD21	1:D8:44:THR:HB	1.71	0.56
1:Q8:93:ASP:O	1:Q8:115:ARG:NH2	2.38	0.56
1:Q8:131:PHE:HB3	1:Q8:159:LYS:HE2	1.88	0.56
1:R8:62:LEU:HD13	1:R8:62:LEU:N	2.21	0.56
1:a8:14:VAL:HG23	1:bQ:14:VAL:CG2	2.36	0.56
3:AA:194:ASN:OD1	5:EH:36:ALA:O	2.21	0.56
4:BA:196:SER:HA	4:BC:143:ASN:HA	1.87	0.56
5:EB:37:ASP:CB	3:AM:197:VAL:CG2	2.74	0.56
1:KD:31:LYS:N	1:IS:314:GLY:O	2.39	0.56
1:KD:38:LYS:HB3	1:IS:222:SER:HA	1.87	0.56
1:LD:22:LEU:HD22	1:KK:47:GLU:CD	2.29	0.56
1:LD:27:HIS:ND1	1:DK:312:PRO:HD3	2.20	0.56
1:BE:98:ASN:ND2	1:DJ:30:SER:HB3	2.21	0.56
1:BE:100:ASP:OD1	1:DJ:27:HIS:C	2.47	0.56
1:TE:89:TYR:HE1	1:IQ:61:THR:CG2	2.16	0.56
1:bE:202:PHE:HD2	1:CR:248:SER:OG	1.86	0.56
1:cE:137:ASP:HB3	1:CG:50:VAL:HG23	1.86	0.56
5:EF:140:ASP:HB3	5:CF:139:LYS:CG	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hG:115:ARG:HH22	1:CL:300:TYR:CA	2.16	0.56
3:AI:208:LYS:HB3	4:BM:251:TRP:NE1	2.19	0.56
4:BI:32:PHE:CE1	5:FM:51:ARG:CG	2.89	0.56
5:DI:85:PRO:HG3	5:EI:91:LEU:HD11	1.86	0.56
1:AJ:220:ARG:O	1:JS:38:LYS:HD3	2.05	0.56
1:KJ:31:LYS:N	1:AP:314:GLY:O	2.39	0.56
1:LJ:47:GLU:OE1	1:JS:21:ALA:C	2.44	0.56
1:AK:108:MET:HE2	1:hR:109:LEU:CD2	2.36	0.56
1:AK:158:LYS:NZ	1:KK:91:ILE:O	2.37	0.56
1:AK:312:PRO:CD	1:KP:27:HIS:CB	2.82	0.56
1:AK:312:PRO:CG	1:KP:27:HIS:CD2	2.88	0.56
1:BL:122:GLY:H	1:LL:34:THR:HG21	1.69	0.56
2:PL:53:PHE:O	1:YR:62:LEU:HD11	2.03	0.56
1:TL:8:ASN:HD21	1:TL:44:THR:HB	1.71	0.56
2:XL:15:TYR:HE2	1:YL:152:ALA:HB2	1.67	0.56
1:YL:134:ASN:HD22	1:SR:50:VAL:HG21	1.70	0.56
3:AM:183:ILE:HG12	3:AO:207:VAL:HG13	1.86	0.56
1:BP:211:ASN:HD22	1:DP:68:LEU:HD12	1.70	0.56
1:AQ:62:LEU:HD13	1:AQ:62:LEU:N	2.21	0.56
1:JQ:368:GLU:OE1	1:LQ:375:TRP:NE1	2.35	0.56
1:QQ:93:ASP:O	1:QQ:115:ARG:NH2	2.38	0.56
1:DR:205:ILE:HD11	1:DR:240:ILE:HD11	1.88	0.56
2:cR:44:GLN:HA	2:cR:44:GLN:OE1	2.02	0.56
1:hR:166:LEU:HG	1:iR:96:PRO:HD2	1.86	0.56
1:C1:128:LYS:CD	1:A6:99:MET:SD	2.92	0.56
1:A1:99:MET:SD	1:C6:128:LYS:CD	2.92	0.56
1:D1:98:ASN:HD22	1:D1:99:MET:H	1.52	0.56
1:I1:14:VAL:HG23	1:UE:14:VAL:CG2	2.35	0.56
1:I1:377:HIS:CE1	1:Y6:367:PRO:O	2.59	0.56
1:K1:50:VAL:HG21	1:Y6:134:ASN:HD22	1.70	0.56
1:Q1:300:TYR:CA	1:R6:115:ARG:HH22	2.16	0.56
1:R1:109:LEU:CD2	1:AJ:108:MET:HE2	2.36	0.56
1:T1:8:ASN:HD21	1:T1:44:THR:HB	1.71	0.56
1:T1:205:ILE:HD11	1:T1:240:ILE:HD11	1.88	0.56
1:a1:8:ASN:HD21	1:a1:44:THR:HB	1.71	0.56
1:g1:111:ARG:CD	1:CQ:371:GLU:OE1	2.44	0.56
1:h1:14:VAL:HG23	1:QG:14:VAL:CG2	2.36	0.56
1:i1:34:THR:HG21	1:K7:122:GLY:H	1.69	0.56
1:i1:205:ILE:HD11	1:i1:240:ILE:HD11	1.88	0.56
4:B2:196:SER:HA	4:B9:143:ASN:HA	1.87	0.56
1:A3:62:LEU:HD13	1:A3:62:LEU:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:105:GLU:OE1	1:J4:110:LYS:HE2	2.06	0.56
1:A3:115:ARG:HH22	1:g7:300:TYR:CA	2.16	0.56
1:A3:368:GLU:OE1	1:D3:375:TRP:NE1	2.35	0.56
1:Q3:221:ALA:O	1:CR:38:LYS:HE2	2.05	0.56
1:Q3:377:HIS:CE1	1:CR:367:PRO:O	2.59	0.56
1:R3:99:MET:SD	1:I8:128:LYS:CD	2.92	0.56
1:S3:71:ARG:NH1	1:S3:272:SER:O	2.38	0.56
1:b3:79:GLN:OE1	1:i4:59:ASN:ND2	2.39	0.56
1:b3:116:MET:SD	1:BD:54:LEU:HG	2.46	0.56
1:C4:38:LYS:HD3	1:CG:222:SER:CA	2.35	0.56
1:C4:50:VAL:HG21	1:BG:134:ASN:HD22	1.70	0.56
1:B4:14:VAL:CG2	1:aE:14:VAL:HG23	2.35	0.56
1:I4:222:SER:CA	1:QL:38:LYS:HD3	2.35	0.56
1:K4:14:VAL:CG2	1:QL:14:VAL:HG23	2.35	0.56
1:Q4:14:VAL:CG2	1:KL:14:VAL:HG23	2.36	0.56
1:Q4:50:VAL:HG21	1:KL:134:ASN:HD22	1.70	0.56
1:Q4:377:HIS:CE1	1:IQ:367:PRO:O	2.59	0.56
1:R4:81:PHE:CE1	1:BS:140:PHE:CE1	2.89	0.56
1:R4:259:PHE:HE1	1:g8:259:PHE:HE1	1.48	0.56
1:T4:8:ASN:HD21	1:T4:44:THR:HB	1.71	0.56
1:f4:38:LYS:HE2	1:C6:221:ALA:O	2.05	0.56
1:g4:62:LEU:HD13	1:g4:62:LEU:N	2.21	0.56
1:g4:89:TYR:HE1	1:YG:61:THR:CG2	2.16	0.56
1:g4:98:ASN:ND2	1:DK:30:SER:HB3	2.21	0.56
1:h4:14:VAL:HG23	1:gG:14:VAL:CG2	2.36	0.56
1:i4:149:THR:O	2:HD:2:TYR:CE2	2.51	0.56
1:I6:93:ASP:O	1:I6:115:ARG:NH2	2.38	0.56
1:Q6:93:ASP:O	1:Q6:115:ARG:NH2	2.38	0.56
1:S6:47:GLU:HB3	1:CS:20:SER:OG	2.04	0.56
1:S6:71:ARG:NH1	1:S6:272:SER:O	2.39	0.56
1:C7:30:SER:N	1:LK:315:ALA:CB	2.69	0.56
1:C7:38:LYS:HA	1:LK:222:SER:HB2	1.88	0.56
1:C7:71:ARG:HE	2:mR:30:MET:HG3	1.70	0.56
1:K7:71:ARG:NH1	1:K7:272:SER:O	2.39	0.56
1:Q7:355:TYR:HB3	1:Q7:379:TYR:HB3	1.88	0.56
1:Y7:128:LYS:CD	1:JR:99:MET:SD	2.92	0.56
1:g7:50:VAL:HG23	1:CE:137:ASP:HB3	1.86	0.56
1:i7:71:ARG:NH1	1:i7:272:SER:O	2.38	0.56
1:C8:377:HIS:CE1	1:AE:367:PRO:O	2.59	0.56
1:A8:105:GLU:OE1	1:RR:110:LYS:HE2	2.06	0.56
1:I8:50:VAL:HG23	1:KR:137:ASP:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I8:93:ASP:O	1:I8:115:ARG:NH2	2.38	0.56
1:Z8:62:LEU:HD13	1:Z8:62:LEU:N	2.21	0.56
1:Z8:368:GLU:OE1	1:b8:375:TRP:NE1	2.35	0.56
1:b8:59:ASN:ND2	1:DR:79:GLN:OE1	2.39	0.56
1:g8:27:HIS:CG	1:KS:312:PRO:HB3	2.40	0.56
1:g8:111:ARG:NE	1:CD:105:GLU:OE2	2.36	0.56
1:h8:105:GLU:OE1	1:TE:110:LYS:HE2	2.06	0.56
4:B9:251:TRP:CD1	3:AB:208:LYS:CE	2.88	0.56
3:AB:73:ALA:O	3:AB:74:ARG:NE	2.37	0.56
3:AB:114:PHE:CZ	2:MD:19:ARG:O	2.57	0.56
3:AC:207:VAL:HG13	3:AH:183:ILE:HG12	1.86	0.56
1:DD:310:THR:O	1:KS:27:HIS:HE1	1.77	0.56
2:FD:10:MET:C	1:KS:372:VAL:HG11	2.30	0.56
2:FD:32:ILE:HD11	2:GD:46:HIS:HE1	1.70	0.56
1:LD:153:LEU:HD21	2:FK:3:GLU:O	2.01	0.56
1:AE:93:ASP:O	1:AE:115:ARG:NH2	2.38	0.56
1:BE:222:SER:N	1:CP:38:LYS:HD2	2.06	0.56
1:BE:368:GLU:OE1	1:FE:375:TRP:NE1	2.35	0.56
2:JE:3:GLU:C	1:DJ:153:LEU:CD2	2.78	0.56
1:SE:300:TYR:CA	1:JQ:115:ARG:HH22	2.16	0.56
1:UE:71:ARG:NH1	1:UE:272:SER:O	2.38	0.56
2:ZE:15:TYR:HE2	1:IL:152:ALA:HB2	1.67	0.56
1:aE:46:PHE:HD1	1:AR:85:TYR:OH	1.87	0.56
1:aE:377:HIS:CE1	1:CG:367:PRO:O	2.59	0.56
1:bE:259:PHE:HE1	1:CR:259:PHE:HE1	1.48	0.56
1:cE:71:ARG:NH1	1:cE:272:SER:O	2.39	0.56
1:CG:61:THR:CG2	1:ZL:89:TYR:HE1	2.16	0.56
2:HG:30:MET:HG3	1:YL:71:ARG:HE	1.70	0.56
1:JG:110:LYS:HE2	1:JQ:105:GLU:OE1	2.06	0.56
1:QG:355:TYR:HB3	1:QG:379:TYR:HB3	1.88	0.56
1:TG:8:ASN:HD21	1:TG:44:THR:HB	1.71	0.56
1:YG:80:ASP:OD2	1:DK:145:LEU:CD2	2.44	0.56
1:aG:143:GLN:C	1:BK:82:ILE:CG1	2.77	0.56
1:gG:62:LEU:HD11	2:HL:53:PHE:O	2.03	0.56
1:gG:300:TYR:CA	1:AL:115:ARG:HH22	2.16	0.56
1:hG:62:LEU:HD13	1:hG:62:LEU:N	2.21	0.56
1:BJ:108:MET:CE	1:LP:369:PHE:HD2	2.02	0.56
2:FJ:32:ILE:HD11	2:GJ:46:HIS:HE1	1.70	0.56
1:KJ:80:ASP:OD2	3:AN:64:GLN:HG3	2.06	0.56
1:CL:314:GLY:O	1:YR:31:LYS:HG2	2.04	0.56
1:BL:71:ARG:NH1	1:BL:272:SER:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QL:304:GLN:HG3	1:RR:97:ILE:HD12	1.87	0.56
1:RL:97:ILE:HD12	1:QR:304:GLN:CG	2.35	0.56
1:RL:110:LYS:HE2	1:RQ:105:GLU:OE1	2.06	0.56
1:TL:205:ILE:HD11	1:TL:240:ILE:HD11	1.88	0.56
1:YL:38:LYS:HD3	1:QR:222:SER:CA	2.35	0.56
1:YL:93:ASP:O	1:YL:115:ARG:NH2	2.38	0.56
1:YL:131:PHE:HB3	1:YL:159:LYS:HE2	1.88	0.56
1:AP:158:LYS:NZ	1:KP:91:ILE:O	2.37	0.56
1:AP:187:ASN:HB3	1:AP:391:ILE:HA	1.87	0.56
1:IQ:131:PHE:HB3	1:IQ:159:LYS:HE2	1.88	0.56
1:QQ:208:LEU:HD12	1:QQ:391:ILE:CD1	2.24	0.56
1:cQ:62:LEU:HD13	1:cQ:62:LEU:N	2.21	0.56
1:LR:8:ASN:HD21	1:LR:44:THR:HB	1.71	0.56
1:LR:205:ILE:HD11	1:LR:240:ILE:HD11	1.88	0.56
1:RR:255:ILE:HG23	1:RR:261:ILE:HG12	1.86	0.56
1:SR:71:ARG:NH1	1:SR:272:SER:O	2.39	0.56
1:ZR:62:LEU:HD13	1:ZR:62:LEU:N	2.21	0.56
1:gR:93:ASP:O	1:gR:115:ARG:NH2	2.38	0.56
2:ES:32:ILE:HD11	2:FS:46:HIS:HE1	1.70	0.56
1:IS:237:ASP:OD1	1:IS:237:ASP:N	2.37	0.56
1:IS:242:THR:O	1:IS:272:SER:HA	2.06	0.56
1:C1:61:THR:CG2	1:A6:89:TYR:HE1	2.16	0.56
1:A1:89:TYR:HE1	1:C6:61:THR:CG2	2.16	0.56
1:I1:300:TYR:CA	1:JG:115:ARG:HH22	2.16	0.56
1:Q1:14:VAL:HG23	1:KG:14:VAL:CG2	2.35	0.56
1:R1:97:ILE:HD12	1:Q6:304:GLN:HG3	1.87	0.56
1:S1:150:ASN:HD21	2:N3:1:MET:H2	1.52	0.56
1:X1:31:LYS:HG2	1:I8:314:GLY:O	2.04	0.56
1:X1:46:PHE:HD1	1:J6:85:TYR:OH	1.87	0.56
1:Z1:355:TYR:HB3	1:Z1:379:TYR:HB3	1.85	0.56
1:f1:222:SER:CA	1:QG:38:LYS:HD3	2.35	0.56
1:g1:255:ILE:HG23	1:g1:261:ILE:HG12	1.87	0.56
1:i1:8:ASN:HD21	1:i1:44:THR:HB	1.71	0.56
3:A2:106:ARG:C	2:MD:7:MET:SD	2.88	0.56
5:E2:57:GLU:CG	4:BF:33:TYR:HE1	2.09	0.56
1:C3:131:PHE:HB3	1:C3:159:LYS:HE2	1.88	0.56
1:C3:367:PRO:O	1:QG:377:HIS:CE1	2.59	0.56
1:I3:93:ASP:O	1:I3:115:ARG:NH2	2.38	0.56
1:I3:222:SER:CA	1:I4:38:LYS:HD3	2.35	0.56
1:I3:367:PRO:O	1:QL:377:HIS:CE1	2.59	0.56
1:L3:8:ASN:HD21	1:L3:44:THR:HB	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D4:8:ASN:HD21	1:D4:44:THR:HB	1.71	0.56
1:I4:208:LEU:HD12	1:I4:391:ILE:CD1	2.24	0.56
1:T4:144:THR:H	1:BS:82:ILE:HD11	1.62	0.56
1:X4:14:VAL:HG23	1:BR:14:VAL:CG2	2.35	0.56
1:X4:31:LYS:HG2	1:CR:314:GLY:O	2.04	0.56
1:X4:54:LEU:HD11	1:CR:116:MET:HE1	0.77	0.56
1:X4:61:THR:CG2	1:Z8:89:TYR:HE1	2.16	0.56
1:h4:101:LEU:O	1:LD:111:ARG:NH1	2.37	0.56
5:F5:31:PHE:CE2	5:FI:47:ASP:HA	2.40	0.56
1:A6:62:LEU:HD13	1:A6:62:LEU:N	2.21	0.56
1:A6:368:GLU:OE1	1:D6:375:TRP:NE1	2.35	0.56
1:R6:255:ILE:HG23	1:R6:261:ILE:HG12	1.86	0.56
1:S6:16:LYS:O	1:CS:45:MET:HE2	1.87	0.56
2:U6:44:GLN:OE1	2:U6:44:GLN:HA	2.02	0.56
1:Y6:46:PHE:HD1	1:LE:85:TYR:OH	1.87	0.56
1:Y6:221:ALA:O	1:SE:38:LYS:HE2	2.05	0.56
1:Y6:255:ILE:HG23	1:Y6:261:ILE:HG12	1.86	0.56
1:Y6:304:GLN:HG3	1:LE:97:ILE:HD12	1.87	0.56
1:b6:205:ILE:HD11	1:b6:240:ILE:HD11	1.88	0.56
1:g6:38:LYS:CD	1:LP:222:SER:CA	2.55	0.56
1:g6:128:LYS:CD	1:BE:99:MET:SD	2.92	0.56
1:h6:85:TYR:OH	1:AE:46:PHE:HD1	1.87	0.56
1:h6:97:ILE:HD12	1:AE:304:GLN:HG3	1.87	0.56
1:j6:8:ASN:HD21	1:j6:44:THR:HB	1.71	0.56
1:C7:46:PHE:HD1	1:hR:85:TYR:OH	1.87	0.56
1:I7:255:ILE:HG23	1:I7:261:ILE:HG12	1.86	0.56
1:I7:300:TYR:CA	1:cQ:115:ARG:HH22	2.16	0.56
1:Q7:221:ALA:O	1:QR:38:LYS:HE2	2.04	0.56
1:S7:150:ASN:HD21	2:VL:1:MET:H2	1.51	0.56
1:T7:8:ASN:HD21	1:T7:44:THR:HB	1.71	0.56
1:Y7:31:LYS:HG2	1:QQ:314:GLY:O	2.04	0.56
1:b7:8:ASN:HD21	1:b7:44:THR:HB	1.71	0.56
1:h7:105:GLU:OE1	1:AQ:110:LYS:HE2	2.06	0.56
1:D8:205:ILE:HD11	1:D8:240:ILE:HD11	1.88	0.56
1:L8:205:ILE:HD11	1:L8:240:ILE:HD11	1.88	0.56
1:g8:27:HIS:HB2	1:KS:312:PRO:CG	2.36	0.56
3:A9:207:VAL:HG13	3:AA:183:ILE:HG12	1.86	0.56
1:DD:87:GLU:OE1	1:KS:55:PHE:HB3	2.04	0.56
1:KD:68:LEU:HB2	1:KD:161:SER:HB3	1.88	0.56
1:LD:29:TYR:O	1:BK:98:ASN:ND2	2.38	0.56
1:BE:100:ASP:CA	1:DJ:25:PHE:O	2.50	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LE:62:LEU:HD13	1:LE:62:LEU:N	2.21	0.56
1:NE:8:ASN:HD21	1:NE:44:THR:HB	1.71	0.56
1:TE:255:ILE:HG23	1:TE:261:ILE:HG12	1.87	0.56
1:aE:355:TYR:HB3	1:aE:379:TYR:HB3	1.88	0.56
1:CG:152:ALA:HB2	2:HR:15:TYR:HE2	1.67	0.56
2:HG:53:PHE:O	1:YL:62:LEU:HD11	2.03	0.56
1:hG:97:ILE:HD12	1:CL:304:GLN:HG3	1.87	0.56
1:AJ:316:VAL:CG2	1:JS:32:SER:HB2	2.36	0.56
1:KJ:106:GLU:N	1:CS:109:LEU:CG	2.16	0.56
1:KJ:107:LEU:CB	1:JS:369:PHE:HZ	2.13	0.56
1:LJ:242:THR:O	1:LJ:272:SER:HA	2.06	0.56
1:AK:174:MET:CB	1:KP:33:TRP:CD2	2.88	0.56
1:AK:222:SER:HA	1:KP:38:LYS:HB3	1.87	0.56
1:CK:71:ARG:NH2	1:LK:210:ASN:OD1	2.39	0.56
1:CK:326:GLU:HG3	1:CK:326:GLU:O	2.06	0.56
2:FK:32:ILE:HD11	2:GK:46:HIS:HE1	1.70	0.56
1:LK:353:LYS:HB3	1:LK:381:PHE:HB3	1.88	0.56
1:CL:255:ILE:HG23	1:CL:261:ILE:HG12	1.86	0.56
1:BL:134:ASN:HD22	1:YR:50:VAL:HG21	1.70	0.56
1:JL:111:ARG:CD	1:YR:371:GLU:OE1	2.44	0.56
1:LL:8:ASN:HD21	1:LL:44:THR:HB	1.71	0.56
1:LL:205:ILE:HD11	1:LL:240:ILE:HD11	1.88	0.56
1:QL:300:TYR:CA	1:RR:115:ARG:HH22	2.16	0.56
1:gL:8:ASN:HD21	1:gL:44:THR:HB	1.71	0.56
5:FM:47:ASP:HA	5:FO:31:PHE:CE2	2.40	0.56
1:CQ:355:TYR:HB3	1:CQ:379:TYR:HB3	1.88	0.56
1:JQ:62:LEU:HD13	1:JQ:62:LEU:N	2.21	0.56
1:QQ:131:PHE:HB3	1:QQ:159:LYS:HE2	1.88	0.56
1:BR:71:ARG:NH1	1:BR:272:SER:O	2.38	0.56
1:RR:62:LEU:HD13	1:RR:62:LEU:N	2.21	0.56
1:YR:355:TYR:HB3	1:YR:379:TYR:HB3	1.88	0.56
1:A1:62:LEU:HD13	1:A1:62:LEU:N	2.21	0.56
1:L1:205:ILE:HD11	1:L1:240:ILE:HD11	1.88	0.56
1:R1:223:GLY:HA3	1:CJ:53:TYR:CE2	2.41	0.56
1:S1:14:VAL:HG23	1:Q8:14:VAL:CG2	2.36	0.56
1:S1:71:ARG:NH1	1:S1:272:SER:O	2.39	0.56
1:X1:14:VAL:HG23	1:K8:14:VAL:CG2	2.35	0.56
1:X1:71:ARG:HE	2:P6:30:MET:HG3	1.70	0.56
1:X1:377:HIS:CE1	1:IR:367:PRO:O	2.59	0.56
1:Y1:89:TYR:HE1	1:I6:61:THR:CG2	2.16	0.56
1:Y1:210:ASN:HD21	1:I6:71:ARG:HH22	1.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a1:205:ILE:HD11	1:a1:240:ILE:HD11	1.88	0.56
1:C3:61:THR:CG2	1:h7:89:TYR:HE1	2.16	0.56
1:A3:110:LYS:HE2	1:h6:105:GLU:OE1	2.06	0.56
1:I3:14:VAL:CG2	1:SL:14:VAL:HG23	2.36	0.56
1:I3:71:ARG:HE	2:X8:30:MET:HG3	1.70	0.56
1:S3:14:VAL:CG2	1:CR:14:VAL:HG23	2.35	0.56
1:Y3:205:ILE:HD11	1:Y3:240:ILE:HD11	1.88	0.56
1:Y3:394:THR:HG23	1:Y3:396:GLN:H	1.71	0.56
1:C4:259:PHE:HE1	1:RG:259:PHE:HE1	1.48	0.56
1:C4:367:PRO:O	1:CG:377:HIS:CE1	2.59	0.56
1:I4:71:ARG:HE	2:H8:30:MET:HG3	1.70	0.56
1:J4:105:GLU:OE1	1:h6:110:LYS:HE2	2.06	0.56
1:R4:382:LYS:HG3	1:BS:32:SER:O	2.03	0.56
1:X4:304:GLN:HG3	1:Z8:97:ILE:HD12	1.87	0.56
2:b4:44:GLN:OE1	2:b4:44:GLN:HA	2.02	0.56
1:g4:368:GLU:OE1	1:i4:375:TRP:NE1	2.35	0.56
1:h4:50:VAL:HG21	1:gG:134:ASN:HD22	1.70	0.56
1:D6:98:ASN:HD22	1:D6:99:MET:H	1.52	0.56
1:I6:50:VAL:HG21	1:aR:134:ASN:HD22	1.70	0.56
1:I6:377:HIS:CE1	1:CL:367:PRO:O	2.59	0.56
1:R6:62:LEU:HD13	1:R6:62:LEU:N	2.21	0.56
1:Z6:85:TYR:OH	1:KE:46:PHE:HD1	1.87	0.56
1:g6:38:LYS:HA	1:LP:222:SER:HB2	1.88	0.56
1:h6:62:LEU:HD13	1:h6:62:LEU:N	2.21	0.56
1:i6:143:GLN:CA	1:BJ:82:ILE:HG12	2.35	0.56
1:A7:210:ASN:HD21	1:gR:71:ARG:HH22	1.43	0.56
1:B7:46:PHE:CZ	1:DP:39:TRP:CH2	2.91	0.56
1:D7:205:ILE:HD11	1:D7:240:ILE:HD11	1.88	0.56
1:I7:304:GLN:HG3	1:cQ:97:ILE:HD12	1.87	0.56
1:I7:367:PRO:O	1:gR:377:HIS:CE1	2.59	0.56
1:Y7:221:ALA:O	1:KE:38:LYS:HE2	2.05	0.56
1:a7:71:ARG:NH1	1:a7:272:SER:O	2.38	0.56
1:g7:116:MET:HE1	1:C8:54:LEU:HD11	0.77	0.56
1:h7:368:GLU:OE1	1:j7:375:TRP:NE1	2.35	0.56
1:j7:59:ASN:ND2	1:TG:79:GLN:OE1	2.39	0.56
1:j7:394:THR:HG23	1:j7:396:GLN:H	1.71	0.56
1:B8:50:VAL:HG21	1:AE:134:ASN:HD22	1.70	0.56
1:L8:394:THR:HG23	1:L8:396:GLN:H	1.71	0.56
1:Q8:222:SER:CA	1:IG:38:LYS:HD3	2.35	0.56
1:j8:8:ASN:HD21	1:j8:44:THR:HB	1.71	0.56
1:j8:205:ILE:HD11	1:j8:240:ILE:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FA:31:PHE:CE2	5:FC:47:ASP:HA	2.40	0.56
1:AD:220:ARG:O	1:KK:38:LYS:HD3	2.05	0.56
1:AD:237:ASP:OD1	1:AD:237:ASP:N	2.37	0.56
1:AD:242:THR:O	1:AD:272:SER:HA	2.06	0.56
1:BD:6:THR:HG22	1:BD:8:ASN:H	1.70	0.56
1:KD:27:HIS:CD2	1:IS:312:PRO:CG	2.88	0.56
1:LD:38:LYS:CD	1:DK:119:LYS:HZ1	2.18	0.56
1:DE:8:ASN:HD21	1:DE:44:THR:HB	1.71	0.56
1:AE:255:ILE:HG23	1:AE:261:ILE:HG12	1.86	0.56
1:FE:205:ILE:HD11	1:FE:240:ILE:HD11	1.88	0.56
1:ME:14:VAL:HG23	1:QQ:14:VAL:CG2	2.36	0.56
1:ME:50:VAL:HG21	1:QQ:134:ASN:HD22	1.70	0.56
1:TE:105:GLU:OE1	1:ZR:110:LYS:HE2	2.06	0.56
1:TE:115:ARG:HH22	1:IQ:300:TYR:CA	2.16	0.56
1:dE:394:THR:HG23	1:dE:396:GLN:H	1.71	0.56
2:hE:53:PHE:O	1:CR:62:LEU:HD11	2.03	0.56
1:CG:71:ARG:HE	2:fL:30:MET:HG3	1.70	0.56
1:gG:304:GLN:HG3	1:AL:97:ILE:HD12	1.87	0.56
1:gG:304:GLN:CG	1:AL:97:ILE:HD12	2.35	0.56
1:hG:105:GLU:OE1	1:JL:110:LYS:HE2	2.06	0.56
5:EI:37:ASP:OD2	3:AN:193:ILE:CG1	2.37	0.56
1:AJ:60:GLU:CG	1:KJ:87:GLU:N	2.63	0.56
1:AJ:118:THR:HG21	1:JS:53:TYR:C	2.31	0.56
1:AJ:222:SER:HA	1:JS:38:LYS:HB3	1.87	0.56
1:AJ:312:PRO:CG	1:JS:27:HIS:CD2	2.88	0.56
1:KJ:58:ILE:HG22	1:LP:57:LYS:HA	1.82	0.56
1:LJ:21:ALA:C	1:JS:47:GLU:OE1	2.39	0.56
1:AK:116:MET:HG3	1:KP:51:ASN:CG	2.30	0.56
1:CK:166:LEU:HG	1:LK:96:PRO:HD2	1.87	0.56
1:IL:14:VAL:HG23	1:KQ:14:VAL:CG2	2.35	0.56
1:JL:62:LEU:HD13	1:JL:62:LEU:N	2.21	0.56
1:JL:255:ILE:HG23	1:JL:261:ILE:HG12	1.87	0.56
1:RL:97:ILE:HD12	1:QR:304:GLN:HG3	1.87	0.56
1:SL:71:ARG:NH1	1:SL:272:SER:O	2.39	0.56
1:gL:98:ASN:HD22	1:gL:99:MET:H	1.52	0.56
3:AO:64:GLN:CB	1:IS:150:ASN:H	2.19	0.56
1:KP:68:LEU:HB2	1:KP:161:SER:HB3	1.88	0.56
1:BQ:137:ASP:HB3	1:gR:50:VAL:HG23	1.86	0.56
1:LQ:8:ASN:HD21	1:LQ:44:THR:HB	1.71	0.56
1:LQ:98:ASN:HD22	1:LQ:99:MET:H	1.52	0.56
1:LR:394:THR:HG23	1:LR:396:GLN:H	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hR:255:ILE:HG23	1:hR:261:ILE:HG12	1.86	0.56
1:BS:240:ILE:HD11	1:BS:270:VAL:HG13	1.87	0.56
1:CS:207:ASN:ND2	1:JS:244:ASP:OD2	2.39	0.56
2:P1:30:MET:HG3	1:IG:71:ARG:HE	1.70	0.56
1:Q1:377:HIS:CE1	1:Q8:367:PRO:O	2.59	0.56
1:X1:367:PRO:O	1:I8:377:HIS:CE1	2.59	0.56
1:Z1:14:VAL:HG23	1:IR:14:VAL:CG2	2.36	0.56
1:f1:152:ALA:HB2	2:n7:15:TYR:HE2	1.67	0.56
1:g1:62:LEU:HD13	1:g1:62:LEU:N	2.21	0.56
1:g1:110:LYS:HE2	1:cQ:105:GLU:OE1	2.06	0.56
2:m1:32:ILE:CD1	1:CQ:74:TRP:CZ3	2.89	0.56
3:A2:207:VAL:HG13	3:A9:183:ILE:HG12	1.86	0.56
4:B2:32:PHE:CE1	5:FA:51:ARG:CG	2.89	0.56
1:D3:8:ASN:HD21	1:D3:44:THR:HB	1.71	0.56
1:D3:98:ASN:HD22	1:D3:99:MET:H	1.52	0.56
1:L3:98:ASN:HD22	1:L3:99:MET:H	1.52	0.56
1:C4:116:MET:HE1	1:aE:54:LEU:HD11	0.78	0.56
1:B4:14:VAL:HG23	1:aE:14:VAL:CG2	2.36	0.56
1:D4:205:ILE:HD11	1:D4:240:ILE:HD11	1.88	0.56
1:J4:115:ARG:HH22	1:C8:300:TYR:CA	2.16	0.56
1:T4:79:GLN:OE1	1:VE:59:ASN:ND2	2.39	0.56
1:X4:93:ASP:O	1:X4:115:ARG:NH2	2.38	0.56
1:a4:8:ASN:HD21	1:a4:44:THR:HB	1.71	0.56
1:g4:223:GLY:HA3	1:CD:53:TYR:CE2	2.41	0.56
1:i4:32:SER:HA	1:CD:125:ILE:HD11	1.86	0.56
1:i4:79:GLN:OE1	1:DL:59:ASN:ND2	2.39	0.56
4:B5:32:PHE:CE1	5:FO:51:ARG:CG	2.89	0.56
4:B5:251:TRP:CD1	3:AH:208:LYS:CE	2.88	0.56
1:J6:255:ILE:HG23	1:J6:261:ILE:HG12	1.86	0.56
1:T6:59:ASN:ND2	1:LG:79:GLN:OE1	2.39	0.56
1:T6:394:THR:HG23	1:T6:396:GLN:H	1.71	0.56
1:Y6:377:HIS:CE1	1:SE:367:PRO:O	2.59	0.56
1:Z6:111:ARG:HD3	1:KE:371:GLU:CD	2.31	0.56
1:a6:134:ASN:HD22	1:SE:50:VAL:HG21	1.70	0.56
1:g6:53:TYR:HB3	1:LP:118:THR:HB	1.88	0.56
1:g6:131:PHE:HB3	1:g6:159:LYS:HE2	1.88	0.56
1:g6:143:GLN:HB2	1:CP:57:LYS:HB3	1.87	0.56
1:g6:371:GLU:CD	1:BE:111:ARG:HD3	2.31	0.56
1:h6:115:ARG:HH22	1:AE:300:TYR:CA	2.16	0.56
1:B7:44:THR:CB	1:DP:16:LYS:HZ3	2.19	0.56
1:I7:14:VAL:CG2	1:iR:14:VAL:HG23	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I7:221:ALA:O	1:CQ:38:LYS:HE2	2.04	0.56
1:J7:97:ILE:HD12	1:bQ:304:GLN:CG	2.35	0.56
1:J7:97:ILE:HD12	1:bQ:304:GLN:HG3	1.87	0.56
1:R7:97:ILE:HD12	1:QQ:304:GLN:CG	2.35	0.56
1:T7:98:ASN:HD22	1:T7:99:MET:H	1.52	0.56
1:g7:367:PRO:O	1:AE:377:HIS:CE1	2.59	0.56
1:h7:255:ILE:HG23	1:h7:261:ILE:HG12	1.87	0.56
1:I8:355:TYR:HB3	1:I8:379:TYR:HB3	1.88	0.56
1:T8:8:ASN:HD21	1:T8:44:THR:HB	1.71	0.56
1:T8:98:ASN:HD22	1:T8:99:MET:H	1.52	0.56
1:a8:50:VAL:HG21	1:bQ:134:ASN:HD22	1.70	0.56
1:a8:134:ASN:HD22	1:bQ:50:VAL:HG21	1.70	0.56
3:A9:73:ALA:O	3:A9:74:ARG:NE	2.37	0.56
5:FB:51:ARG:CG	4:BM:32:PHE:CE1	2.89	0.56
3:AC:114:PHE:CG	2:MP:51:GLN:CB	2.83	0.56
1:BD:49:PHE:O	1:BD:52:LYS:NZ	2.39	0.56
1:BD:256:ALA:HA	1:CD:260:GLN:HB2	1.87	0.56
1:CD:208:LEU:HD22	1:CD:389:ASN:HB3	1.88	0.56
1:CD:326:GLU:HG3	1:CD:326:GLU:O	2.06	0.56
1:DD:304:GLN:CG	1:KS:28:ASP:HB3	2.36	0.56
2:MD:31:SER:HB3	2:ND:45:ILE:HG13	1.88	0.56
1:FE:363:PRO:CG	2:HP:9:SER:HB2	2.29	0.56
1:FE:394:THR:HG23	1:FE:396:GLN:H	1.71	0.56
1:KE:131:PHE:HB3	1:KE:159:LYS:HE2	1.88	0.56
1:KE:222:SER:CA	1:QQ:38:LYS:HD3	2.35	0.56
1:LE:105:GLU:OE1	1:JQ:110:LYS:HE2	2.06	0.56
1:LE:110:LYS:HE2	1:JG:105:GLU:OE1	2.06	0.56
1:NE:394:THR:HG23	1:NE:396:GLN:H	1.71	0.56
1:TE:368:GLU:OE1	1:VE:375:TRP:NE1	2.35	0.56
1:VE:394:THR:HG23	1:VE:396:GLN:H	1.71	0.56
1:AG:110:LYS:HE2	1:RL:105:GLU:OE1	2.06	0.56
1:DG:8:ASN:HD21	1:DG:44:THR:HB	1.71	0.56
1:QG:131:PHE:HB3	1:QG:159:LYS:HE2	1.88	0.56
1:RG:62:LEU:HD13	1:RG:62:LEU:N	2.21	0.56
1:RG:110:LYS:HE2	1:ZL:105:GLU:OE1	2.06	0.56
1:aG:20:SER:OG	1:DK:47:GLU:CG	2.49	0.56
1:jG:98:ASN:HD22	1:jG:99:MET:H	1.52	0.56
3:AI:197:VAL:CG2	5:EM:37:ASP:CB	2.74	0.56
1:AJ:174:MET:CB	1:JS:33:TRP:CD2	2.88	0.56
1:AJ:242:THR:O	1:AJ:272:SER:HA	2.06	0.56
1:DJ:82:ILE:CD1	1:LP:144:THR:CA	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:120:LEU:HB2	1:LP:39:TRP:HB2	1.87	0.56
1:KJ:261:ILE:HG23	1:KJ:265:ASP:OD1	2.01	0.56
1:KJ:352:TYR:HE1	1:KJ:382:LYS:HE3	1.70	0.56
1:LJ:157:LYS:NZ	2:ES:2:TYR:CE2	2.70	0.56
1:LJ:353:LYS:HB3	1:LJ:381:PHE:HB3	1.88	0.56
2:MK:31:SER:HB3	2:NK:45:ILE:HG13	1.88	0.56
1:JL:89:TYR:HE1	1:YR:61:THR:CG2	2.16	0.56
1:JL:368:GLU:OE1	1:LL:375:TRP:NE1	2.35	0.56
2:PL:32:ILE:CD1	1:YR:74:TRP:CZ3	2.89	0.56
1:AP:242:THR:O	1:AP:272:SER:HA	2.06	0.56
1:BP:49:PHE:O	1:BP:52:LYS:NZ	2.39	0.56
1:CP:71:ARG:NH2	1:LP:210:ASN:OD1	2.39	0.56
2:FP:32:ILE:HD11	2:GP:46:HIS:HE1	1.70	0.56
1:BQ:134:ASN:HD22	1:gR:50:VAL:HG21	1.70	0.56
1:DQ:394:THR:HG23	1:DQ:396:GLN:H	1.71	0.56
1:YQ:116:MET:SD	1:AS:54:LEU:HG	2.46	0.56
1:eQ:98:ASN:HD22	1:eQ:99:MET:H	1.52	0.56
1:TR:394:THR:HG23	1:TR:396:GLN:H	1.71	0.56
1:bR:394:THR:HG23	1:bR:396:GLN:H	1.71	0.56
1:KS:242:THR:O	1:KS:272:SER:HA	2.06	0.56
1:A1:368:GLU:OE1	1:D1:375:TRP:NE1	2.35	0.56
1:I1:367:PRO:O	1:SE:377:HIS:CE1	2.59	0.56
1:J1:97:ILE:HD12	1:IG:304:GLN:CG	2.35	0.56
1:Q1:222:SER:CA	1:Q8:38:LYS:HD3	2.35	0.56
1:R1:98:ASN:ND2	1:CS:30:SER:HB3	2.21	0.56
1:X1:93:ASP:O	1:X1:115:ARG:NH2	2.38	0.56
2:e1:32:ILE:CD1	1:I6:74:TRP:CZ3	2.89	0.56
1:f1:14:VAL:CG2	1:B3:14:VAL:HG23	2.36	0.56
1:f1:14:VAL:HG23	1:B3:14:VAL:CG2	2.35	0.56
1:f1:377:HIS:CE1	1:QG:367:PRO:O	2.59	0.56
1:C3:304:GLN:HG3	1:h7:97:ILE:HD12	1.87	0.56
1:R3:97:ILE:HD12	1:I8:304:GLN:CG	2.35	0.56
1:T3:59:ASN:ND2	1:LR:79:GLN:OE1	2.39	0.56
2:X3:32:ILE:CD1	1:I8:74:TRP:CZ3	2.89	0.56
1:A4:62:LEU:HD13	1:A4:62:LEU:N	2.21	0.56
1:D4:79:GLN:OE1	1:DR:59:ASN:ND2	2.39	0.56
1:I4:377:HIS:CE1	1:QL:367:PRO:O	2.59	0.56
1:L4:79:GLN:OE1	1:TR:59:ASN:ND2	2.39	0.56
2:P4:32:ILE:CD1	1:C8:74:TRP:CZ3	2.89	0.56
1:Q4:131:PHE:HB3	1:Q4:159:LYS:HE2	1.88	0.56
1:R4:62:LEU:HD13	1:R4:62:LEU:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T4:153:LEU:HD21	2:GS:4:GLY:CA	2.31	0.56
2:W4:9:SER:HB2	1:DD:363:PRO:CG	2.32	0.56
1:Y4:89:TYR:HE1	1:Y8:61:THR:CG2	2.16	0.56
1:Y4:110:LYS:HE2	1:A6:105:GLU:OE1	2.06	0.56
1:f4:50:VAL:HG21	1:B6:134:ASN:HD22	1.70	0.56
1:f4:304:GLN:HG3	1:ZG:97:ILE:HD12	1.87	0.56
1:g4:97:ILE:HD12	1:YG:304:GLN:HG3	1.87	0.56
1:h4:134:ASN:HD22	1:gG:50:VAL:HG21	1.70	0.56
3:A5:194:ASN:OD1	5:EO:36:ALA:O	2.21	0.56
1:I6:50:VAL:HG23	1:aR:137:ASP:HB3	1.86	0.56
1:K6:14:VAL:HG23	1:CL:14:VAL:CG2	2.36	0.56
1:Z6:99:MET:SD	1:KE:128:LYS:CD	2.92	0.56
1:a6:14:VAL:CG2	1:SE:14:VAL:HG23	2.35	0.56
1:b6:394:THR:HG23	1:b6:396:GLN:H	1.71	0.56
1:g6:111:ARG:NE	1:CJ:105:GLU:OE2	2.36	0.56
1:j6:394:THR:HG23	1:j6:396:GLN:H	1.71	0.56
1:C7:93:ASP:O	1:C7:115:ARG:NH2	2.38	0.56
2:H7:32:ILE:CD1	1:gR:74:TRP:CZ3	2.89	0.56
1:I7:131:PHE:HB3	1:I7:159:LYS:HE2	1.88	0.56
1:I7:222:SER:CA	1:CQ:38:LYS:HD3	2.35	0.56
1:J7:111:ARG:CD	1:bQ:371:GLU:OE1	2.44	0.56
1:L7:59:ASN:ND2	1:b8:79:GLN:OE1	2.39	0.56
1:g7:50:VAL:HG21	1:CE:134:ASN:HD22	1.70	0.56
1:g7:222:SER:CA	1:C8:38:LYS:HD3	2.35	0.56
1:g7:377:HIS:CE1	1:C8:367:PRO:O	2.59	0.56
1:Q8:355:TYR:HB3	1:Q8:379:TYR:HB3	1.88	0.56
1:R8:166:LEU:HG	1:S8:96:PRO:HD2	1.86	0.56
1:g8:310:THR:O	1:DD:27:HIS:ND1	2.37	0.56
1:j8:108:MET:HE3	1:BD:367:PRO:HD2	1.87	0.56
3:A9:228:ILE:HD12	3:AA:233:GLU:OE1	2.01	0.56
5:E9:36:ALA:O	3:AB:194:ASN:OD1	2.21	0.56
3:AB:152:SER:CA	1:AD:135:ASN:OD1	2.54	0.56
5:DC:85:PRO:HG3	5:EC:91:LEU:HD11	1.86	0.56
1:LD:28:ASP:HB3	1:DK:304:GLN:CG	2.36	0.56
1:FE:149:THR:O	2:HP:2:TYR:CE2	2.51	0.56
1:TE:97:ILE:HD12	1:IQ:304:GLN:HG3	1.87	0.56
1:aE:371:GLU:CD	1:AR:111:ARG:HD3	2.31	0.56
1:YG:93:ASP:O	1:YG:115:ARG:NH2	2.38	0.56
1:ZG:255:ILE:HG23	1:ZG:261:ILE:HG12	1.87	0.56
1:bG:8:ASN:HD21	1:bG:44:THR:HB	1.71	0.56
2:cG:44:GLN:OE1	2:cG:44:GLN:HA	2.02	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FI:51:ARG:CG	4:BN:32:PHE:CE1	2.89	0.56
1:AJ:312:PRO:CD	1:JS:27:HIS:CB	2.82	0.56
1:BJ:256:ALA:HA	1:CJ:260:GLN:HB2	1.87	0.56
1:CJ:71:ARG:NH2	1:LJ:210:ASN:OD1	2.39	0.56
1:KJ:79:GLN:O	3:AN:66:ILE:HG23	2.06	0.56
1:LJ:27:HIS:ND1	1:CS:312:PRO:HD3	2.20	0.56
1:CK:125:ILE:HD11	1:jR:32:SER:HA	1.86	0.56
1:KK:347:ILE:HG12	2:MK:48:LEU:HB3	1.86	0.56
1:LK:25:PHE:HD1	1:BP:99:MET:O	1.85	0.56
1:LK:47:GLU:CA	1:KP:22:LEU:HD23	2.36	0.56
2:MK:8:ARG:NH2	1:KP:374:HIS:CE1	2.74	0.56
1:CL:131:PHE:HB3	1:CL:159:LYS:HE2	1.88	0.56
1:CL:221:ALA:O	1:YR:38:LYS:HE2	2.04	0.56
1:IL:14:VAL:CG2	1:KQ:14:VAL:HG23	2.36	0.56
1:IL:355:TYR:HB3	1:IL:379:TYR:HB3	1.88	0.56
1:QL:61:THR:CG2	1:RR:89:TYR:HE1	2.16	0.56
1:RL:202:PHE:HD2	1:QR:248:SER:OG	1.86	0.56
3:AN:106:ARG:CA	2:MP:7:MET:CE	2.75	0.56
3:AO:64:GLN:CD	1:IS:149:THR:C	2.47	0.56
1:RQ:255:ILE:HG23	1:RQ:261:ILE:HG12	1.87	0.56
1:YQ:8:ASN:HD21	1:YQ:44:THR:HB	1.71	0.56
1:bR:8:ASN:HD21	1:bR:44:THR:HB	1.71	0.56
1:bR:129:GLN:NE2	1:bR:159:LYS:O	2.37	0.56
1:AS:49:PHE:O	1:AS:52:LYS:NZ	2.39	0.56
1:C1:93:ASP:O	1:C1:115:ARG:NH2	2.38	0.55
1:B1:14:VAL:CG2	1:Y8:14:VAL:HG23	2.35	0.55
1:B1:71:ARG:NH1	1:B1:272:SER:O	2.38	0.55
1:I1:38:LYS:HD3	1:SE:222:SER:CA	2.35	0.55
1:I1:54:LEU:HD11	1:SE:116:MET:HE1	0.77	0.55
1:I1:74:TRP:CZ3	2:PG:32:ILE:CD1	2.89	0.55
1:I1:304:GLN:CG	1:JG:97:ILE:HD12	2.35	0.55
1:Q1:367:PRO:O	1:IG:377:HIS:CE1	2.59	0.55
1:R1:109:LEU:C	1:AJ:105:GLU:HB2	2.30	0.55
1:Y1:62:LEU:HD13	1:Y1:62:LEU:N	2.21	0.55
1:f1:355:TYR:HB3	1:f1:379:TYR:HB3	1.88	0.55
1:g1:89:TYR:HE1	1:CQ:61:THR:CG2	2.16	0.55
1:C3:300:TYR:CA	1:h7:115:ARG:HH22	2.16	0.55
1:B3:150:ASN:HD21	2:FQ:1:MET:H3	1.53	0.55
1:I3:355:TYR:HB3	1:I3:379:TYR:HB3	1.88	0.55
1:J3:166:LEU:HG	1:K3:96:PRO:HD2	1.86	0.55
1:Q3:304:GLN:CG	1:J8:97:ILE:HD12	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y3:116:MET:SD	1:BK:54:LEU:HG	2.46	0.55
1:b3:59:ASN:ND2	1:j8:79:GLN:OE1	2.39	0.55
1:C4:14:VAL:CG2	1:BG:14:VAL:HG23	2.36	0.55
1:C4:304:GLN:CG	1:RG:97:ILE:HD12	2.35	0.55
1:I4:304:GLN:CG	1:A8:97:ILE:HD12	2.35	0.55
1:J4:97:ILE:HD12	1:C8:304:GLN:CG	2.35	0.55
1:Q4:367:PRO:O	1:IL:377:HIS:CE1	2.59	0.55
1:R4:97:ILE:HD12	1:g8:304:GLN:CG	2.35	0.55
1:Y4:97:ILE:HD12	1:Y8:304:GLN:HG3	1.87	0.55
5:F5:51:ARG:CG	4:BH:32:PHE:CE1	2.89	0.55
1:I6:355:TYR:HB3	1:I6:379:TYR:HB3	1.88	0.55
1:h6:166:LEU:HG	1:i6:96:PRO:HD2	1.86	0.55
1:A7:89:TYR:HE1	1:gR:61:THR:CG2	2.16	0.55
1:Q7:304:GLN:HG3	1:RQ:97:ILE:HD12	1.87	0.55
1:Q7:377:HIS:CE1	1:QR:367:PRO:O	2.59	0.55
1:R7:255:ILE:HG23	1:R7:261:ILE:HG12	1.86	0.55
1:S7:14:VAL:CG2	1:QR:14:VAL:HG23	2.35	0.55
2:X7:32:ILE:CD1	1:QQ:74:TRP:CZ3	2.89	0.55
1:C8:131:PHE:HB3	1:C8:159:LYS:HE2	1.88	0.55
1:A8:255:ILE:HG23	1:A8:261:ILE:HG12	1.87	0.55
1:I8:14:VAL:CG2	1:KR:14:VAL:HG23	2.36	0.55
1:J8:62:LEU:HD13	1:J8:62:LEU:N	2.21	0.55
1:Y8:377:HIS:CE1	1:bQ:367:PRO:O	2.59	0.55
1:h8:62:LEU:N	1:h8:62:LEU:HD13	2.21	0.55
1:KD:28:ASP:C	1:JS:98:ASN:HB3	2.32	0.55
1:LD:39:TRP:CD2	1:DK:120:LEU:HD13	2.40	0.55
1:LD:162:ASP:HA	1:LD:165:VAL:HG12	1.88	0.55
1:LD:312:PRO:HB3	1:YG:27:HIS:CG	2.40	0.55
1:DE:394:THR:HG23	1:DE:396:GLN:H	1.71	0.55
1:FE:98:ASN:HD22	1:FE:99:MET:H	1.52	0.55
1:FE:365:HIS:CD2	2:HP:10:MET:CE	2.70	0.55
1:SE:304:GLN:HG3	1:JQ:97:ILE:HD12	1.87	0.55
1:TE:97:ILE:HD12	1:IQ:304:GLN:CG	2.35	0.55
1:aE:74:TRP:CZ3	2:HR:32:ILE:CD1	2.89	0.55
1:aE:131:PHE:HB3	1:aE:159:LYS:HE2	1.88	0.55
1:bE:62:LEU:HD13	1:bE:62:LEU:N	2.21	0.55
3:AF:233:GLU:OE1	3:AM:228:ILE:HD12	2.01	0.55
4:BF:143:ASN:HA	4:BM:196:SER:HA	1.87	0.55
4:BF:144:GLN:NE2	4:BM:193:VAL:HG12	2.12	0.55
1:BG:71:ARG:NH1	1:BG:272:SER:O	2.39	0.55
1:YG:355:TYR:HB3	1:YG:379:TYR:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bG:105:GLU:C	1:CK:109:LEU:HD13	2.30	0.55
5:EI:37:ASP:CB	3:AN:197:VAL:CG2	2.74	0.55
1:CJ:326:GLU:O	1:CJ:326:GLU:HG3	2.06	0.55
1:DJ:382:LYS:CG	1:LP:33:TRP:CB	2.44	0.55
1:KJ:22:LEU:HD23	1:LP:47:GLU:CA	2.36	0.55
1:CK:53:TYR:CE2	1:hR:223:GLY:HA3	2.41	0.55
1:CK:208:LEU:HD22	1:CK:389:ASN:HB3	1.88	0.55
1:DK:207:ASN:ND2	1:KK:244:ASP:OD2	2.39	0.55
1:DK:320:ASP:OD2	1:DK:323:LYS:NZ	2.36	0.55
1:CL:222:SER:CA	1:YR:38:LYS:HD3	2.35	0.55
1:YL:29:TYR:HH	1:QR:302:ASP:CG	2.05	0.55
1:gL:205:ILE:HD11	1:gL:240:ILE:HD11	1.88	0.55
3:AN:73:ALA:O	3:AN:74:ARG:NE	2.37	0.55
1:BQ:71:ARG:NH1	1:BQ:272:SER:O	2.39	0.55
1:DQ:8:ASN:HD21	1:DQ:44:THR:HB	1.71	0.55
1:DQ:129:GLN:NE2	1:DQ:159:LYS:O	2.37	0.55
1:SQ:71:ARG:NH1	1:SQ:272:SER:O	2.39	0.55
1:AR:255:ILE:HG23	1:AR:261:ILE:HG12	1.87	0.55
1:gR:355:TYR:HB3	1:gR:379:TYR:HB3	1.88	0.55
1:A1:105:GLU:OE1	1:ZG:110:LYS:HE2	2.06	0.55
1:B1:134:ASN:HD22	1:Y8:50:VAL:HG21	1.70	0.55
1:I1:131:PHE:HB3	1:I1:159:LYS:HE2	1.88	0.55
1:J1:62:LEU:HD13	1:J1:62:LEU:N	2.21	0.55
1:J1:115:ARG:HH22	1:IG:300:TYR:CA	2.16	0.55
1:J1:255:ILE:HG23	1:J1:261:ILE:HG12	1.87	0.55
1:Q1:371:GLU:CD	1:R6:111:ARG:HD3	2.31	0.55
1:Y1:110:LYS:HE2	1:JL:105:GLU:OE1	2.06	0.55
1:g1:97:ILE:HD12	1:CQ:304:GLN:HG3	1.87	0.55
1:g1:368:GLU:OE1	1:i1:375:TRP:NE1	2.35	0.55
3:A2:64:GLN:CG	1:KK:80:ASP:HA	2.16	0.55
3:A2:208:LYS:CE	4:BA:251:TRP:CD1	2.88	0.55
5:E2:64:TRP:CD1	4:BF:30:LEU:HB2	2.41	0.55
1:C3:304:GLN:CG	1:h7:97:ILE:HD12	2.35	0.55
1:A3:97:ILE:HD12	1:g7:304:GLN:HG3	1.87	0.55
1:I3:38:LYS:HD3	1:QL:222:SER:CA	2.35	0.55
1:L3:394:THR:HG23	1:L3:396:GLN:H	1.71	0.55
2:M3:44:GLN:OE1	2:M3:44:GLN:HA	2.02	0.55
1:T3:8:ASN:HD21	1:T3:44:THR:HB	1.71	0.55
1:B4:14:VAL:HG21	1:aE:14:VAL:HB	1.89	0.55
1:R4:109:LEU:CD2	1:IS:108:MET:HE2	2.36	0.55
1:X4:355:TYR:HB3	1:X4:379:TYR:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y4:97:ILE:HD12	1:Y8:304:GLN:CG	2.35	0.55
1:f4:14:VAL:HG23	1:B6:14:VAL:CG2	2.35	0.55
1:f4:61:THR:CG2	1:ZG:89:TYR:HE1	2.16	0.55
1:f4:377:HIS:CE1	1:gG:367:PRO:O	2.59	0.55
1:B6:71:ARG:NH1	1:B6:272:SER:O	2.38	0.55
1:I6:38:LYS:HD3	1:YR:222:SER:CA	2.35	0.55
1:I6:131:PHE:HB3	1:I6:159:LYS:HE2	1.88	0.55
1:J6:105:GLU:OE1	1:Z7:110:LYS:HE2	2.06	0.55
1:J6:368:GLU:OE1	1:L6:375:TRP:NE1	2.35	0.55
1:L6:394:THR:HG23	1:L6:396:GLN:H	1.71	0.55
1:Q6:27:HIS:HB2	1:LJ:312:PRO:CG	2.36	0.55
1:T6:79:GLN:OE1	1:YQ:59:ASN:ND2	2.39	0.55
1:Y6:300:TYR:CA	1:LE:115:ARG:HH22	2.16	0.55
1:Z6:97:ILE:HD12	1:KE:304:GLN:CG	2.35	0.55
1:Z6:105:GLU:OE1	1:R7:110:LYS:HE2	2.06	0.55
1:Z6:110:LYS:HE2	1:JR:105:GLU:OE1	2.06	0.55
2:c6:44:GLN:OE1	2:c6:44:GLN:HA	2.02	0.55
1:g6:304:GLN:CG	1:BE:97:ILE:HD12	2.35	0.55
1:j6:105:GLU:C	1:CJ:109:LEU:HD13	2.30	0.55
1:j6:205:ILE:HD11	1:j6:240:ILE:HD11	1.88	0.55
1:A7:62:LEU:HD13	1:A7:62:LEU:N	2.21	0.55
1:Q7:371:GLU:CD	1:RQ:111:ARG:HD3	2.31	0.55
1:R7:62:LEU:N	1:R7:62:LEU:HD13	2.21	0.55
1:T7:205:ILE:HD11	1:T7:240:ILE:HD11	1.88	0.55
2:X7:53:PHE:O	1:QQ:62:LEU:HD11	2.03	0.55
1:Y7:134:ASN:HD22	1:SQ:50:VAL:HG21	1.70	0.55
1:Y7:304:GLN:CG	1:JR:97:ILE:HD12	2.35	0.55
1:Y7:367:PRO:O	1:QQ:377:HIS:CE1	2.59	0.55
1:b7:394:THR:HG23	1:b7:396:GLN:H	1.71	0.55
1:g7:14:VAL:HG23	1:CE:14:VAL:CG2	2.35	0.55
1:h7:62:LEU:HD13	1:h7:62:LEU:N	2.21	0.55
1:A8:62:LEU:HD13	1:A8:62:LEU:N	2.21	0.55
1:T8:394:THR:HG23	1:T8:396:GLN:H	1.71	0.55
4:B9:32:PHE:CE1	5:FC:51:ARG:CG	2.89	0.55
5:E9:57:GLU:CG	4:BB:33:TYR:HE1	2.09	0.55
3:AC:155:GLU:OE1	1:AP:58:ILE:CD1	2.54	0.55
1:AD:222:SER:HA	1:KK:38:LYS:HB3	1.87	0.55
1:BD:211:ASN:HD22	1:DD:68:LEU:HD12	1.70	0.55
1:CD:71:ARG:NH2	1:LD:210:ASN:OD1	2.39	0.55
1:DD:312:PRO:HD3	1:KS:27:HIS:ND1	2.20	0.55
1:LD:353:LYS:HB3	1:LD:381:PHE:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HE:1:MET:H3	1:CP:150:ASN:HD21	0.59	0.55
1:KE:377:HIS:CE1	1:QQ:367:PRO:O	2.59	0.55
1:ME:134:ASN:HD22	1:QQ:50:VAL:HG21	1.70	0.55
1:NE:205:ILE:HD11	1:NE:240:ILE:HD11	1.88	0.55
1:TE:62:LEU:HD13	1:TE:62:LEU:N	2.21	0.55
1:TE:259:PHE:HE1	1:IQ:259:PHE:HE1	1.48	0.55
1:cE:134:ASN:HD22	1:CG:50:VAL:HG21	1.70	0.55
1:IG:208:LEU:HD12	1:IG:391:ILE:CD1	2.24	0.55
1:gG:355:TYR:HB3	1:gG:379:TYR:HB3	1.88	0.55
1:AJ:81:PHE:HD2	1:JS:139:ARG:NH1	1.72	0.55
1:BJ:68:LEU:HB2	1:BJ:161:SER:HB2	1.88	0.55
1:DJ:207:ASN:ND2	1:KJ:244:ASP:OD2	2.39	0.55
1:DJ:304:GLN:CG	1:LP:28:ASP:HB3	2.36	0.55
1:KJ:47:GLU:OE1	1:LP:21:ALA:C	2.39	0.55
1:KJ:47:GLU:CD	1:LP:22:LEU:HD22	2.29	0.55
1:LJ:25:PHE:HE1	1:CS:126:VAL:HG11	1.48	0.55
1:LJ:367:PRO:HB3	1:CS:361:LYS:HB3	1.87	0.55
2:MJ:15:TYR:CB	1:JS:149:THR:HG22	2.12	0.55
2:MJ:31:SER:HB3	2:NJ:45:ILE:HG13	1.88	0.55
1:AK:223:GLY:CA	1:KP:53:TYR:CE2	2.90	0.55
1:CK:150:ASN:ND2	2:kR:1:MET:H1	1.91	0.55
2:HK:2:TYR:CE2	1:jR:149:THR:O	2.51	0.55
1:LK:162:ASP:HA	1:LK:165:VAL:HG12	1.88	0.55
1:IL:71:ARG:HE	2:fR:30:MET:HG3	1.70	0.55
1:JL:115:ARG:HH22	1:YR:300:TYR:CA	2.16	0.55
1:QL:371:GLU:CD	1:RR:111:ARG:HD3	2.31	0.55
1:bL:79:GLN:OE1	1:TQ:59:ASN:ND2	2.39	0.55
1:BP:256:ALA:HA	1:CP:260:GLN:HB2	1.87	0.55
1:DP:207:ASN:ND2	1:KP:244:ASP:OD2	2.39	0.55
1:CQ:222:SER:CA	1:gR:38:LYS:HD3	2.35	0.55
1:LQ:79:GLN:OE1	1:bR:59:ASN:ND2	2.39	0.55
1:bQ:93:ASP:O	1:bQ:115:ARG:NH2	2.38	0.55
1:aR:71:ARG:NH1	1:aR:272:SER:O	2.39	0.55
1:AS:130:LYS:O	1:AS:159:LYS:NZ	2.38	0.55
1:BS:71:ARG:NH2	1:KS:210:ASN:OD1	2.39	0.55
1:BS:326:GLU:O	1:BS:326:GLU:HG3	2.06	0.55
1:B1:14:VAL:HG21	1:Y8:14:VAL:HB	1.89	0.55
1:D1:205:ILE:HD11	1:D1:240:ILE:HD11	1.88	0.55
1:I1:208:LEU:HD12	1:I1:391:ILE:CD1	2.24	0.55
1:K1:14:VAL:HG23	1:Y6:14:VAL:CG2	2.36	0.55
1:Q1:61:THR:CG2	1:R6:89:TYR:HE1	2.16	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S1:14:VAL:CG2	1:Q8:14:VAL:HG23	2.35	0.55
1:S1:105:GLU:OE1	1:LJ:110:LYS:HD3	2.05	0.55
2:W1:32:ILE:CD1	1:Q6:74:TRP:CZ3	2.89	0.55
1:X1:14:VAL:HB	1:K8:14:VAL:HG21	1.89	0.55
1:a1:98:ASN:HD22	1:a1:99:MET:H	1.52	0.55
1:f1:14:VAL:HB	1:B3:14:VAL:HG21	1.89	0.55
1:f1:71:ARG:HE	2:HQ:30:MET:HG3	1.70	0.55
1:f1:74:TRP:CZ3	2:HQ:32:ILE:CD1	2.89	0.55
1:g1:210:ASN:HD21	1:CQ:71:ARG:HH22	1.43	0.55
5:E2:140:ASP:HB2	5:C2:139:LYS:HD2	1.84	0.55
1:D3:59:ASN:ND2	1:FE:79:GLN:OE1	2.39	0.55
1:S3:14:VAL:HG21	1:CR:14:VAL:HB	1.89	0.55
1:T3:79:GLN:OE1	1:dE:59:ASN:ND2	2.39	0.55
1:b3:81:PHE:HD2	1:BD:139:ARG:CD	2.12	0.55
1:A4:97:ILE:HD12	1:QG:304:GLN:CG	2.35	0.55
1:I4:300:TYR:CA	1:A8:115:ARG:HH22	2.16	0.55
1:S4:71:ARG:NH1	1:S4:272:SER:O	2.38	0.55
2:W4:1:MET:HB3	1:DD:150:ASN:HD21	1.72	0.55
1:Y4:255:ILE:HG23	1:Y4:261:ILE:HG12	1.87	0.55
2:e4:32:ILE:CD1	1:Y8:74:TRP:CZ3	2.89	0.55
1:f4:14:VAL:HB	1:B6:14:VAL:HG21	1.89	0.55
1:f4:74:TRP:CZ3	2:fG:32:ILE:CD1	2.89	0.55
1:f4:304:GLN:CG	1:ZG:97:ILE:HD12	2.35	0.55
1:g4:109:LEU:CD2	1:AD:108:MET:HE2	2.36	0.55
1:g4:118:THR:HG23	1:CD:53:TYR:HB3	1.89	0.55
2:j4:11:MET:HB2	1:CD:372:VAL:CG1	2.28	0.55
1:C6:93:ASP:O	1:C6:115:ARG:NH2	2.38	0.55
1:Q6:310:THR:O	1:CS:27:HIS:ND1	2.37	0.55
1:a6:14:VAL:HG23	1:SE:14:VAL:CG2	2.36	0.55
1:a6:71:ARG:NH1	1:a6:272:SER:O	2.38	0.55
1:b6:79:GLN:OE1	1:LQ:59:ASN:ND2	2.39	0.55
1:g6:30:SER:N	1:LP:315:ALA:CB	2.69	0.55
1:g6:32:SER:CB	1:LP:316:VAL:HG21	2.34	0.55
1:g6:81:PHE:CE2	1:DJ:139:ARG:CD	2.66	0.55
1:D7:98:ASN:HD22	1:D7:99:MET:H	1.52	0.55
1:K7:14:VAL:HG21	1:CQ:14:VAL:HB	1.89	0.55
1:Q7:14:VAL:CG2	1:aL:14:VAL:HG23	2.36	0.55
1:Q7:14:VAL:HB	1:aL:14:VAL:HG21	1.89	0.55
1:Q7:131:PHE:HB3	1:Q7:159:LYS:HE2	1.88	0.55
1:g8:30:SER:CA	1:KS:315:ALA:CB	2.85	0.55
3:AA:208:LYS:CE	4:BH:251:TRP:CD1	2.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:114:PHE:HB2	2:MP:51:GLN:HB3	1.87	0.55
4:BC:38:GLN:NE2	5:FN:41:ASN:CG	2.51	0.55
1:AD:120:LEU:HD12	1:KK:55:PHE:CB	2.35	0.55
1:BD:68:LEU:HB2	1:BD:161:SER:HB2	1.88	0.55
1:DD:207:ASN:ND2	1:KD:244:ASP:OD2	2.39	0.55
1:KD:27:HIS:CB	1:IS:312:PRO:CD	2.82	0.55
1:KD:30:SER:CB	1:JS:98:ASN:HD21	2.02	0.55
1:LD:242:THR:O	1:LD:272:SER:HA	2.06	0.55
1:CE:71:ARG:NH1	1:CE:272:SER:O	2.38	0.55
2:JE:54:THR:HG21	2:NP:1:MET:CE	2.25	0.55
1:AG:97:ILE:HD12	1:YL:304:GLN:CG	2.35	0.55
1:DG:205:ILE:HD11	1:DG:240:ILE:HD11	1.88	0.55
1:YG:310:THR:O	1:DK:27:HIS:ND1	2.37	0.55
1:hG:97:ILE:HD12	1:CL:304:GLN:CG	2.35	0.55
5:EH:10:TYR:HH	5:EN:66:TYR:HB2	1.65	0.55
5:EI:57:GLU:CG	4:BN:33:TYR:HE1	2.09	0.55
1:BJ:54:LEU:HG	1:gL:116:MET:SD	2.46	0.55
1:CJ:208:LEU:HD22	1:CJ:389:ASN:HB3	1.88	0.55
1:KJ:51:ASN:CG	1:AP:116:MET:HG3	2.30	0.55
1:LJ:47:GLU:CA	1:JS:22:LEU:HD23	2.37	0.55
2:MJ:8:ARG:NH2	1:JS:374:HIS:CE1	2.74	0.55
1:BK:49:PHE:O	1:BK:52:LYS:NZ	2.39	0.55
1:CK:82:ILE:HD11	1:jR:144:THR:H	1.62	0.55
1:BL:14:VAL:HG21	1:YR:14:VAL:HB	1.89	0.55
1:IL:14:VAL:HB	1:KQ:14:VAL:HG21	1.89	0.55
1:IL:74:TRP:CZ3	2:fR:32:ILE:CD1	2.89	0.55
1:JL:97:ILE:HD12	1:YR:304:GLN:HG3	1.87	0.55
2:XL:32:ILE:CD1	1:QR:74:TRP:CZ3	2.89	0.55
1:ZL:62:LEU:HD13	1:ZL:62:LEU:N	2.21	0.55
3:AM:73:ALA:O	3:AM:74:ARG:NE	2.37	0.55
1:LP:128:LYS:NZ	1:LP:303:TYR:OH	2.35	0.55
1:YQ:205:ILE:HD11	1:YQ:240:ILE:HD11	1.88	0.55
1:bQ:131:PHE:HB3	1:bQ:159:LYS:HE2	1.88	0.55
1:bQ:355:TYR:HB3	1:bQ:379:TYR:HB3	1.88	0.55
1:jR:394:THR:HG23	1:jR:396:GLN:H	1.71	0.55
1:AS:6:THR:HG22	1:AS:8:ASN:H	1.70	0.55
1:A1:110:LYS:HE2	1:AL:105:GLU:OE1	2.06	0.55
2:M1:44:GLN:OE1	2:M1:44:GLN:HA	2.02	0.55
1:X1:131:PHE:HB3	1:X1:159:LYS:HE2	1.88	0.55
1:X1:134:ASN:HD22	1:K8:50:VAL:HG21	1.70	0.55
1:X1:355:TYR:HB3	1:X1:379:TYR:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X1:371:GLU:CD	1:J6:111:ARG:HD3	2.31	0.55
1:f1:304:GLN:CG	1:AQ:97:ILE:HD12	2.35	0.55
1:g1:105:GLU:OE1	1:A7:110:LYS:HE2	2.06	0.55
5:E2:10:TYR:CZ	5:E9:66:TYR:HB2	2.31	0.55
5:C2:265:LEU:HD23	5:N9:233:GLU:H	1.72	0.55
1:C3:14:VAL:HB	1:SG:14:VAL:HG21	1.89	0.55
1:D3:79:GLN:OE1	1:DQ:59:ASN:ND2	2.39	0.55
2:E3:45:ILE:HG13	2:E3:46:HIS:H	1.66	0.55
1:I3:14:VAL:HG23	1:SL:14:VAL:CG2	2.35	0.55
1:J3:85:TYR:OH	1:Q8:46:PHE:HD1	1.87	0.55
1:K4:14:VAL:HG23	1:QL:14:VAL:CG2	2.36	0.55
1:L4:205:ILE:HD11	1:L4:240:ILE:HD11	1.88	0.55
1:Q4:304:GLN:CG	1:h8:97:ILE:HD12	2.35	0.55
1:S4:14:VAL:HG21	1:IQ:14:VAL:HB	1.89	0.55
1:X4:367:PRO:O	1:CR:377:HIS:CE1	2.59	0.55
5:N5:233:GLU:H	5:CN:265:LEU:HD23	1.72	0.55
1:A6:110:LYS:HE2	1:J7:105:GLU:OE1	2.06	0.55
1:D6:205:ILE:HD11	1:D6:240:ILE:HD11	1.88	0.55
1:Z6:97:ILE:HD12	1:KE:304:GLN:HG3	1.87	0.55
1:b6:59:ASN:ND2	1:b7:79:GLN:OE1	2.39	0.55
1:b6:98:ASN:HD22	1:b6:99:MET:H	1.52	0.55
2:f6:53:PHE:O	1:KE:62:LEU:HD11	2.03	0.55
1:j6:59:ASN:ND2	1:D8:79:GLN:OE1	2.39	0.55
1:C7:355:TYR:HB3	1:C7:379:TYR:HB3	1.88	0.55
1:C7:371:GLU:CD	1:hR:111:ARG:HD3	2.31	0.55
1:I7:62:LEU:HD11	2:iQ:53:PHE:O	2.03	0.55
1:I7:304:GLN:CG	1:cQ:97:ILE:HD12	2.35	0.55
1:R7:97:ILE:HD12	1:QQ:304:GLN:HG3	1.87	0.55
1:S7:71:ARG:NH1	1:S7:272:SER:O	2.39	0.55
1:T7:59:ASN:ND2	1:NE:79:GLN:OE1	2.39	0.55
1:T7:394:THR:HG23	1:T7:396:GLN:H	1.71	0.55
1:Z7:62:LEU:HD13	1:Z7:62:LEU:N	2.21	0.55
1:Z7:115:ARG:HH22	1:IR:300:TYR:CA	2.16	0.55
1:a7:14:VAL:HG23	1:KE:14:VAL:CG2	2.36	0.55
1:g7:14:VAL:CG2	1:CE:14:VAL:HG23	2.36	0.55
1:j7:205:ILE:HD11	1:j7:240:ILE:HD11	1.88	0.55
2:l7:1:MET:H2	1:SG:150:ASN:HD21	1.54	0.55
1:C8:208:LEU:HD12	1:C8:391:ILE:CD1	2.24	0.55
1:B8:14:VAL:HG23	1:AE:14:VAL:CG2	2.36	0.55
1:Q8:377:HIS:CE1	1:IG:367:PRO:O	2.59	0.55
2:U8:44:GLN:OE1	2:U8:44:GLN:HA	2.02	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j8:394:THR:HG23	1:j8:396:GLN:H	1.71	0.55
2:k8:44:GLN:OE1	2:k8:44:GLN:HA	2.02	0.55
3:A9:197:VAL:CG2	5:EC:37:ASP:CB	2.74	0.55
4:B9:30:LEU:HB2	5:EC:64:TRP:CD1	2.41	0.55
4:BB:143:ASN:HA	4:BF:196:SER:HA	1.87	0.55
1:AD:377:HIS:NE2	1:KK:370:ASP:HB2	2.22	0.55
1:CD:47:GLU:CG	1:YG:20:SER:CA	2.79	0.55
1:KD:139:ARG:HH11	1:IS:81:PHE:CB	2.20	0.55
1:KD:370:ASP:HB2	1:IS:377:HIS:NE2	2.22	0.55
1:LD:315:ALA:CB	1:YG:30:SER:N	2.69	0.55
1:AE:355:TYR:HB3	1:AE:379:TYR:HB3	1.88	0.55
1:LE:166:LEU:HG	1:ME:96:PRO:HD2	1.86	0.55
1:LE:255:ILE:HG23	1:LE:261:ILE:HG12	1.87	0.55
1:dE:79:GLN:OE1	1:bL:59:ASN:ND2	2.39	0.55
1:CG:131:PHE:HB3	1:CG:159:LYS:HE2	1.88	0.55
1:CG:355:TYR:HB3	1:CG:379:TYR:HB3	1.88	0.55
2:HG:32:ILE:CD1	1:YL:74:TRP:CZ3	2.89	0.55
1:LG:98:ASN:HD22	1:LG:99:MET:H	1.52	0.55
1:SG:71:ARG:NH1	1:SG:272:SER:O	2.38	0.55
1:aG:137:ASP:HB3	1:DK:50:VAL:HG23	1.89	0.55
1:aG:368:GLU:OE2	1:CK:107:LEU:HD22	2.04	0.55
1:gG:93:ASP:O	1:gG:115:ARG:NH2	2.38	0.55
1:gG:131:PHE:HB3	1:gG:159:LYS:HE2	1.88	0.55
1:jG:205:ILE:HD11	1:jG:240:ILE:HD11	1.88	0.55
3:AI:81:LEU:HD13	1:JS:359:MET:HE2	1.88	0.55
1:AJ:128:LYS:HA	1:AJ:376:ILE:O	2.07	0.55
1:AJ:187:ASN:HB3	1:AJ:391:ILE:HA	1.87	0.55
1:DJ:310:THR:O	1:LP:27:HIS:HE1	1.77	0.55
1:CK:140:PHE:CE1	1:hR:81:PHE:CE1	2.89	0.55
1:CK:356:THR:OG1	1:CK:359:MET:SD	2.65	0.55
1:bL:205:ILE:HD11	1:bL:240:ILE:HD11	1.88	0.55
1:gL:394:THR:HG23	1:gL:396:GLN:H	1.71	0.55
2:MP:31:SER:HB3	2:NP:45:ILE:HG13	1.88	0.55
1:TQ:8:ASN:HD21	1:TQ:44:THR:HB	1.71	0.55
1:TQ:394:THR:HG23	1:TQ:396:GLN:H	1.71	0.55
1:eQ:205:ILE:HD11	1:eQ:240:ILE:HD11	1.88	0.55
1:gR:131:PHE:HB3	1:gR:159:LYS:HE2	1.88	0.55
1:IS:187:ASN:HB3	1:IS:391:ILE:HA	1.87	0.55
1:C1:367:PRO:O	1:bQ:377:HIS:CE1	2.59	0.55
1:L1:59:ASN:ND2	1:T8:79:GLN:OE1	2.39	0.55
1:Q1:14:VAL:CG2	1:KG:14:VAL:HG23	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q1:14:VAL:HB	1:KG:14:VAL:HG21	1.89	0.55
1:X1:14:VAL:CG2	1:K8:14:VAL:HG23	2.36	0.55
1:Y1:60:GLU:HG3	1:Y1:62:LEU:HD21	1.89	0.55
1:f1:131:PHE:HB3	1:f1:159:LYS:HE2	1.88	0.55
1:g1:115:ARG:HH22	1:CQ:300:TYR:CA	2.16	0.55
1:h1:14:VAL:HG21	1:QG:14:VAL:HB	1.89	0.55
1:i1:59:ASN:ND2	1:L7:79:GLN:OE1	2.39	0.55
3:A2:197:VAL:CG2	5:EA:37:ASP:CB	2.74	0.55
1:C3:259:PHE:HE1	1:h7:259:PHE:HE1	1.48	0.55
1:C3:371:GLU:CD	1:h7:111:ARG:HD3	2.31	0.55
1:I3:377:HIS:CE1	1:I4:367:PRO:O	2.59	0.55
1:J3:110:LYS:HE2	1:R6:105:GLU:OE1	2.06	0.55
1:K3:134:ASN:HD22	1:I4:50:VAL:HG21	1.70	0.55
1:Q3:14:VAL:HB	1:Z4:14:VAL:HG21	1.89	0.55
1:B4:134:ASN:HD22	1:aE:50:VAL:HG21	1.70	0.55
1:D4:394:THR:HG23	1:D4:396:GLN:H	1.71	0.55
2:E4:44:GLN:OE1	2:E4:44:GLN:HA	2.02	0.55
1:K4:14:VAL:HG21	1:QL:14:VAL:HB	1.89	0.55
1:L4:8:ASN:HD21	1:L4:44:THR:HB	1.71	0.55
1:L4:98:ASN:HD22	1:L4:99:MET:H	1.52	0.55
1:R4:105:GLU:HB2	1:BD:110:LYS:CE	2.29	0.55
1:T4:205:ILE:HD11	1:T4:240:ILE:HD11	1.88	0.55
2:U4:3:GLU:O	1:BS:153:LEU:HD11	2.06	0.55
1:h4:14:VAL:CG2	1:gG:14:VAL:HG23	2.35	0.55
1:i4:29:TYR:C	1:CD:315:ALA:HB1	2.23	0.55
1:i4:31:LYS:O	1:CD:125:ILE:CD1	2.30	0.55
3:A5:197:VAL:CG2	5:EO:37:ASP:CB	2.74	0.55
3:A5:208:LYS:C	4:BO:250:ILE:HD12	2.30	0.55
1:Y6:61:THR:CG2	1:LE:89:TYR:HE1	2.16	0.55
1:Y6:355:TYR:HB3	1:Y6:379:TYR:HB3	1.88	0.55
1:g6:35:PHE:CE1	1:LP:178:TYR:HB2	2.42	0.55
1:g6:62:LEU:HD11	2:JE:53:PHE:O	2.03	0.55
1:h6:255:ILE:HG23	1:h6:261:ILE:HG12	1.87	0.55
1:C7:131:PHE:HB3	1:C7:159:LYS:HE2	1.88	0.55
1:A7:60:GLU:HG3	1:A7:62:LEU:HD21	1.89	0.55
1:I7:377:HIS:CE1	1:CQ:367:PRO:O	2.59	0.55
1:R7:105:GLU:OE1	1:JR:110:LYS:HE2	2.06	0.55
1:Y7:14:VAL:HG23	1:SQ:14:VAL:CG2	2.35	0.55
1:Y7:93:ASP:O	1:Y7:115:ARG:NH2	2.38	0.55
1:Z7:97:ILE:HD12	1:IR:304:GLN:HG3	1.87	0.55
1:a7:14:VAL:CG2	1:KE:14:VAL:HG23	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g7:355:TYR:HB3	1:g7:379:TYR:HB3	1.88	0.55
1:I8:367:PRO:O	1:IR:377:HIS:CE1	2.59	0.55
1:R8:110:LYS:HE2	1:RR:105:GLU:OE1	2.06	0.55
1:g8:30:SER:N	1:KS:315:ALA:CB	2.69	0.55
1:AD:312:PRO:CD	1:KK:27:HIS:CB	2.82	0.55
1:BD:34:THR:HG22	1:BD:36:GLY:H	1.72	0.55
1:DD:109:LEU:CD1	1:JS:106:GLU:HA	1.92	0.55
1:KD:53:TYR:C	1:IS:118:THR:HG21	2.31	0.55
1:KD:374:HIS:CE1	2:LS:8:ARG:NH2	2.74	0.55
2:MD:8:ARG:NH2	1:KK:374:HIS:CE1	2.74	0.55
1:BE:104:ASN:O	1:DJ:369:PHE:HZ	1.90	0.55
1:BE:116:MET:CE	1:CP:54:LEU:HD23	2.24	0.55
1:FE:370:ASP:CG	1:CP:361:LYS:HZ1	2.09	0.55
1:SE:355:TYR:HB3	1:SE:379:TYR:HB3	1.88	0.55
1:VE:205:ILE:HD11	1:VE:240:ILE:HD11	1.88	0.55
1:DG:59:ASN:ND2	1:TR:79:GLN:OE1	2.39	0.55
1:aG:57:LYS:CD	1:DK:143:GLN:HE21	1.20	0.55
1:gG:371:GLU:OE1	1:AL:111:ARG:CD	2.44	0.55
2:nG:53:PHE:O	1:CL:62:LEU:HD11	2.03	0.55
1:AJ:281:LYS:NZ	1:AJ:332:GLU:OE2	2.40	0.55
1:KJ:30:SER:CB	1:KP:98:ASN:HD21	2.02	0.55
1:KJ:38:LYS:HD3	1:AP:220:ARG:O	2.05	0.55
1:AK:60:GLU:CG	1:KK:87:GLU:N	2.63	0.55
1:AK:242:THR:O	1:AK:272:SER:HA	2.06	0.55
1:BK:256:ALA:HA	1:CK:260:GLN:HB2	1.87	0.55
1:CK:38:LYS:CB	1:hR:222:SER:HA	2.30	0.55
1:LK:242:THR:O	1:LK:272:SER:HA	2.06	0.55
1:CL:377:HIS:CE1	1:YR:367:PRO:O	2.59	0.55
1:AL:60:GLU:HG3	1:AL:62:LEU:HD21	1.89	0.55
1:IL:304:GLN:CG	1:ZR:97:ILE:HD12	2.35	0.55
1:TL:394:THR:HG23	1:TL:396:GLN:H	1.71	0.55
1:YL:355:TYR:HB3	1:YL:379:TYR:HB3	1.88	0.55
1:DQ:205:ILE:HD11	1:DQ:240:ILE:HD11	1.88	0.55
1:QQ:355:TYR:HB3	1:QQ:379:TYR:HB3	1.88	0.55
1:CR:355:TYR:HB3	1:CR:379:TYR:HB3	1.88	0.55
1:IS:128:LYS:HA	1:IS:376:ILE:O	2.07	0.55
1:C1:74:TRP:CZ3	2:H6:32:ILE:CD1	2.89	0.55
1:C1:222:SER:CA	1:Y8:38:LYS:HD3	2.35	0.55
1:C1:304:GLN:CG	1:A6:97:ILE:HD12	2.35	0.55
1:L1:79:GLN:OE1	1:NE:59:ASN:ND2	2.39	0.55
1:R1:104:ASN:O	1:CS:369:PHE:HZ	1.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T1:394:THR:HG23	1:T1:396:GLN:H	1.71	0.55
3:A2:181:SER:OG	3:AB:204:ALA:O	2.18	0.55
5:E2:140:ASP:O	5:C2:143:LYS:CD	2.50	0.55
1:C3:14:VAL:CG2	1:SG:14:VAL:HG23	2.36	0.55
1:I3:14:VAL:HB	1:SL:14:VAL:HG21	1.89	0.55
1:L3:79:GLN:OE1	1:D8:59:ASN:ND2	2.39	0.55
1:S3:14:VAL:HG23	1:CR:14:VAL:CG2	2.36	0.55
1:Y3:8:ASN:HD21	1:Y3:44:THR:HB	1.71	0.55
1:C4:355:TYR:HB3	1:C4:379:TYR:HB3	1.88	0.55
1:T4:59:ASN:ND2	1:YQ:79:GLN:OE1	2.39	0.55
1:f4:38:LYS:HD3	1:C6:222:SER:CA	2.35	0.55
1:f4:131:PHE:HB3	1:f4:159:LYS:HE2	1.88	0.55
1:i4:205:ILE:HD11	1:i4:240:ILE:HD11	1.88	0.55
2:l4:53:PHE:O	1:YG:62:LEU:HD11	2.03	0.55
3:A5:37:GLU:CD	3:AI:150:TYR:HB2	2.32	0.55
3:A5:155:GLU:OE1	1:AJ:136:ASN:CA	2.28	0.55
5:E5:10:TYR:CZ	5:EI:66:TYR:HB2	2.31	0.55
1:C6:367:PRO:O	1:gG:377:HIS:CE1	2.59	0.55
1:L6:79:GLN:OE1	1:jG:59:ASN:ND2	2.39	0.55
1:Q6:58:ILE:CD1	1:CJ:55:PHE:CB	2.85	0.55
1:T6:205:ILE:HD11	1:T6:240:ILE:HD11	1.88	0.55
1:g6:30:SER:CA	1:LP:315:ALA:CB	2.85	0.55
1:g6:45:MET:HG2	1:CP:14:VAL:HG23	1.89	0.55
1:g6:304:GLN:HG3	1:BE:97:ILE:HD12	1.87	0.55
1:i6:137:ASP:HB3	1:DJ:50:VAL:HG23	1.89	0.55
1:j6:79:GLN:OE1	1:gL:59:ASN:ND2	2.39	0.55
1:J7:60:GLU:HG3	1:J7:62:LEU:HD21	1.89	0.55
1:Q7:128:LYS:CD	1:RQ:99:MET:SD	2.92	0.55
1:Y7:61:THR:CG2	1:JR:89:TYR:HE1	2.16	0.55
1:D8:394:THR:HG23	1:D8:396:GLN:H	1.71	0.55
2:E8:44:GLN:OE1	2:E8:44:GLN:HA	2.02	0.55
1:b8:205:ILE:HD11	1:b8:240:ILE:HD11	1.88	0.55
1:g8:355:TYR:HB3	1:g8:379:TYR:HB3	1.88	0.55
1:AD:55:PHE:O	3:AF:152:SER:N	2.24	0.55
1:KD:33:TRP:CD2	1:IS:174:MET:CB	2.88	0.55
1:DE:79:GLN:OE1	1:FE:59:ASN:ND2	2.39	0.55
1:SE:74:TRP:CZ3	2:PQ:32:ILE:CD1	2.89	0.55
1:bE:60:GLU:HG3	1:bE:62:LEU:HD21	1.89	0.55
5:FF:51:ARG:CG	4:BO:32:PHE:CE1	2.89	0.55
1:AG:97:ILE:HD12	1:YL:304:GLN:HG3	1.87	0.55
1:DG:79:GLN:OE1	1:TG:59:ASN:ND2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LG:205:ILE:HD11	1:LG:240:ILE:HD11	1.88	0.55
1:RG:105:GLU:OE1	1:AR:110:LYS:HE2	2.06	0.55
1:TG:205:ILE:HD11	1:TG:240:ILE:HD11	1.88	0.55
3:AI:23:HIS:CE1	3:AO:159:HIS:NE2	2.75	0.55
3:AI:112:ILE:HB	2:MJ:7:MET:O	2.07	0.55
1:KJ:68:LEU:HB2	1:KJ:161:SER:HB3	1.88	0.55
1:KJ:98:ASN:HB3	1:JS:28:ASP:C	2.31	0.55
1:KJ:109:LEU:CD2	1:CS:109:LEU:HD22	2.37	0.55
1:KJ:374:HIS:CE1	2:MP:8:ARG:NH2	2.74	0.55
1:BK:34:THR:HG22	1:BK:36:GLY:H	1.72	0.55
1:BK:46:PHE:HE2	1:jR:14:VAL:HG13	1.72	0.55
1:CK:315:ALA:CB	1:jR:30:SER:C	2.80	0.55
2:HK:9:SER:HB2	1:jR:363:PRO:CG	2.29	0.55
1:KK:68:LEU:HB2	1:KK:161:SER:HB3	1.88	0.55
1:DL:79:GLN:OE1	1:LL:59:ASN:ND2	2.39	0.55
1:IL:131:PHE:HB3	1:IL:159:LYS:HE2	1.88	0.55
1:ZL:110:LYS:HE2	1:AR:105:GLU:OE1	2.06	0.55
2:MQ:45:ILE:HG13	2:MQ:46:HIS:H	1.66	0.55
1:TR:205:ILE:HD11	1:TR:240:ILE:HD11	1.88	0.55
1:bR:205:ILE:HD11	1:bR:240:ILE:HD11	1.88	0.55
1:hR:368:GLU:OE1	1:jR:375:TRP:NE1	2.35	0.55
1:iR:71:ARG:NH1	1:iR:272:SER:O	2.39	0.55
1:C1:208:LEU:HD11	1:C1:391:ILE:HD13	1.46	0.55
1:C1:304:GLN:HG3	1:A6:97:ILE:HD12	1.87	0.55
1:C1:355:TYR:HB3	1:C1:379:TYR:HB3	1.88	0.55
1:A1:97:ILE:HD12	1:C6:304:GLN:CG	2.35	0.55
1:A1:97:ILE:HD12	1:C6:304:GLN:HG3	1.87	0.55
1:D1:8:ASN:HD21	1:D1:44:THR:HB	1.71	0.55
2:H1:32:ILE:CD1	1:C6:74:TRP:CZ3	2.89	0.55
1:J1:60:GLU:HG3	1:J1:62:LEU:HD21	1.89	0.55
1:J1:64:ILE:HD11	1:K1:88:GLU:HG3	1.89	0.55
1:L1:394:THR:HG23	1:L1:396:GLN:H	1.71	0.55
2:P1:32:ILE:CD1	1:IG:74:TRP:CZ3	2.89	0.55
1:R1:223:GLY:N	1:CJ:53:TYR:CD1	2.75	0.55
1:S1:14:VAL:HG21	1:Q8:14:VAL:HB	1.89	0.55
2:W1:3:GLU:C	1:CS:153:LEU:CD2	2.78	0.55
1:X1:62:LEU:HD11	2:P6:53:PHE:O	2.03	0.55
4:B2:32:PHE:CE1	5:FA:51:ARG:CD	2.90	0.55
2:H3:32:ILE:CD1	1:g7:74:TRP:CZ3	2.89	0.55
1:Q3:128:LYS:CD	1:J8:99:MET:SD	2.92	0.55
1:T3:205:ILE:HD11	1:T3:240:ILE:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T3:394:THR:HG23	1:T3:396:GLN:H	1.71	0.55
1:Y3:377:HIS:CD2	1:BK:370:ASP:CG	2.85	0.55
1:C4:131:PHE:HB3	1:C4:159:LYS:HE2	1.88	0.55
1:I4:74:TRP:CZ3	2:H8:32:ILE:CD1	2.89	0.55
1:Q4:14:VAL:HB	1:KL:14:VAL:HG21	1.89	0.55
1:S4:14:VAL:HG23	1:IQ:14:VAL:CG2	2.36	0.55
2:W4:2:TYR:N	1:DD:150:ASN:OD1	2.40	0.55
1:X4:62:LEU:HD11	2:f8:53:PHE:O	2.03	0.55
1:Y4:105:GLU:OE1	1:J7:110:LYS:HE2	2.06	0.55
1:g4:64:ILE:HD11	1:h4:88:GLU:HG3	1.89	0.55
1:g4:223:GLY:N	1:CD:53:TYR:CD1	2.75	0.55
3:A5:159:HIS:NE2	3:AN:23:HIS:CE1	2.75	0.55
3:A5:208:LYS:CE	4:BO:251:TRP:CD1	2.88	0.55
1:C6:355:TYR:HB3	1:C6:379:TYR:HB3	1.88	0.55
1:D6:8:ASN:HD21	1:D6:44:THR:HB	1.71	0.55
1:I6:14:VAL:CG2	1:aR:14:VAL:HG23	2.36	0.55
1:I6:14:VAL:HB	1:aR:14:VAL:HG21	1.89	0.55
1:K6:71:ARG:NH1	1:K6:272:SER:O	2.39	0.55
1:Q6:355:TYR:HB3	1:Q6:379:TYR:HB3	1.88	0.55
1:g6:29:TYR:HD2	1:LP:317:PHE:HE1	1.01	0.55
1:g6:61:THR:CG2	1:BE:89:TYR:HE1	2.16	0.55
1:g6:310:THR:O	1:DJ:27:HIS:ND1	2.37	0.55
1:h6:89:TYR:HE1	1:AE:61:THR:CG2	2.16	0.55
1:h6:104:ASN:ND2	1:h6:106:GLU:OE2	2.40	0.55
1:C7:61:THR:OG1	1:CK:57:LYS:HE3	2.07	0.55
1:K7:14:VAL:HG23	1:CQ:14:VAL:CG2	2.36	0.55
1:Q7:150:ASN:CG	2:HG:2:TYR:HB3	2.32	0.55
1:Y7:14:VAL:HB	1:SQ:14:VAL:HG21	1.89	0.55
1:Y7:38:LYS:HD3	1:QQ:222:SER:CA	2.35	0.55
1:A8:60:GLU:HG3	1:A8:62:LEU:HD21	1.89	0.55
1:A8:64:ILE:HD11	1:B8:88:GLU:HG3	1.89	0.55
1:J8:64:ILE:HD11	1:K8:88:GLU:HG3	1.89	0.55
1:S8:134:ASN:HD22	1:IG:50:VAL:HG21	1.70	0.55
1:Z8:64:ILE:HD11	1:a8:88:GLU:HG3	1.89	0.55
1:a8:14:VAL:CG2	1:bQ:14:VAL:HG23	2.35	0.55
1:g8:35:PHE:CE1	1:KS:178:TYR:HB2	2.42	0.55
3:A9:150:TYR:OH	1:KK:80:ASP:OD2	2.25	0.55
4:BA:32:PHE:CE1	5:FH:51:ARG:CG	2.89	0.55
3:AB:159:HIS:NE2	3:AF:23:HIS:CE1	2.75	0.55
1:AD:314:GLY:O	1:KK:31:LYS:N	2.39	0.55
1:BD:98:ASN:ND2	1:KS:29:TYR:O	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:127:LYS:HE3	1:LD:96:PRO:HB2	1.89	0.55
1:KD:53:TYR:CE2	1:IS:223:GLY:CA	2.90	0.55
1:BE:62:LEU:HD13	1:BE:62:LEU:N	2.21	0.55
1:BE:105:GLU:CA	1:BJ:109:LEU:HD11	2.25	0.55
1:BE:118:THR:HG23	1:CP:53:TYR:HB3	1.88	0.55
2:HE:3:GLU:O	1:CP:153:LEU:HD11	2.07	0.55
1:LE:104:ASN:ND2	1:LE:106:GLU:OE2	2.40	0.55
1:TE:111:ARG:HD3	1:IQ:371:GLU:CD	2.31	0.55
1:aE:304:GLN:HG3	1:AR:97:ILE:HD12	1.87	0.55
5:FF:47:ASP:CA	5:FM:31:PHE:CE2	2.86	0.55
5:NF:233:GLU:H	5:CM:265:LEU:HD23	1.72	0.55
1:LG:8:ASN:HD21	1:LG:44:THR:HB	1.71	0.55
3:AH:23:HIS:CE1	3:AN:159:HIS:NE2	2.75	0.55
4:BH:196:SER:HA	4:BN:143:ASN:HA	1.87	0.55
5:FH:31:PHE:CE2	5:FN:47:ASP:CA	2.86	0.55
3:AI:32:PHE:HE2	1:IS:55:PHE:N	2.04	0.55
1:CJ:356:THR:OG1	1:CJ:359:MET:SD	2.65	0.55
1:DJ:80:ASP:O	1:LP:145:LEU:HD21	2.07	0.55
1:KJ:370:ASP:HB2	1:AP:377:HIS:NE2	2.22	0.55
1:LJ:28:ASP:HB3	1:CS:304:GLN:CG	2.36	0.55
1:LJ:57:LYS:CA	1:JS:58:ILE:HG21	2.21	0.55
1:RL:104:ASN:ND2	1:RL:106:GLU:OE2	2.40	0.55
1:bL:8:ASN:HD21	1:bL:44:THR:HB	1.71	0.55
1:bL:394:THR:HG23	1:bL:396:GLN:H	1.71	0.55
4:BM:150:ASP:N	4:BO:189:ASN:O	2.34	0.55
1:BP:68:LEU:HB2	1:BP:161:SER:HB2	1.88	0.55
1:CP:208:LEU:HD22	1:CP:389:ASN:HB3	1.88	0.55
1:BQ:14:VAL:HG21	1:gR:14:VAL:HB	1.89	0.55
1:BQ:14:VAL:HG23	1:gR:14:VAL:CG2	2.36	0.55
1:RQ:60:GLU:HG3	1:RQ:62:LEU:HD21	1.89	0.55
1:eQ:59:ASN:ND2	1:jR:79:GLN:OE1	2.39	0.55
1:jR:98:ASN:HD22	1:jR:99:MET:H	1.52	0.55
1:IS:281:LYS:NZ	1:IS:332:GLU:OE2	2.40	0.55
1:C1:14:VAL:CG2	1:dQ:14:VAL:HG23	2.36	0.55
1:Q1:24:ASP:HB3	1:IG:125:ILE:HG22	1.89	0.55
1:R1:104:ASN:ND2	1:R1:106:GLU:OE2	2.40	0.55
1:f1:367:PRO:O	1:C3:377:HIS:CE1	2.59	0.55
1:f1:371:GLU:CD	1:AQ:111:ARG:HD3	2.31	0.55
4:B2:30:LEU:HB2	5:EA:64:TRP:CD1	2.41	0.55
5:F2:51:ARG:CG	4:BF:32:PHE:CE1	2.89	0.55
1:A3:64:ILE:HD11	1:B3:88:GLU:HG3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:150:ASN:CG	2:XR:2:TYR:HB3	2.32	0.55
1:K3:14:VAL:HG21	1:I4:14:VAL:HB	1.89	0.55
1:Q3:222:SER:CA	1:CR:38:LYS:HD3	2.35	0.55
1:R3:64:ILE:HD11	1:S3:88:GLU:HG3	1.89	0.55
1:Y3:59:ASN:ND2	1:bG:79:GLN:OE1	2.39	0.55
1:Y3:79:GLN:OE1	1:jR:59:ASN:ND2	2.39	0.55
1:C4:24:ASP:HB3	1:CG:125:ILE:HG22	1.89	0.55
1:I4:125:ILE:HG22	1:QL:24:ASP:HB3	1.89	0.55
1:X4:131:PHE:HB3	1:X4:159:LYS:HE2	1.88	0.55
1:g4:104:ASN:O	1:DK:369:PHE:HZ	1.90	0.55
2:l4:2:TYR:N	1:DK:150:ASN:OD1	2.40	0.55
4:B5:33:TYR:CZ	5:EO:57:GLU:HA	2.37	0.55
1:L6:98:ASN:HD22	1:L6:99:MET:H	1.52	0.55
1:R6:104:ASN:ND2	1:R6:106:GLU:OE2	2.40	0.55
2:X6:2:TYR:HB3	1:Q8:150:ASN:CG	2.32	0.55
1:Z6:89:TYR:HE1	1:KE:61:THR:CG2	2.16	0.55
1:L7:394:THR:HG23	1:L7:396:GLN:H	1.71	0.55
1:Q7:38:LYS:HD3	1:YL:222:SER:CA	2.35	0.55
1:Q7:74:TRP:CZ3	2:XQ:32:ILE:CD1	2.89	0.55
1:R7:60:GLU:HG3	1:R7:62:LEU:HD21	1.89	0.55
1:R7:104:ASN:ND2	1:R7:106:GLU:OE2	2.40	0.55
2:X7:2:TYR:HB3	1:Y7:150:ASN:CG	2.32	0.55
1:L8:8:ASN:HD21	1:L8:44:THR:HB	1.71	0.55
1:Q8:125:ILE:HG22	1:IG:24:ASP:HB3	1.89	0.55
1:S8:14:VAL:HG21	1:IG:14:VAL:HB	1.89	0.55
1:T8:205:ILE:HD11	1:T8:240:ILE:HD11	1.88	0.55
1:Y8:131:PHE:HB3	1:Y8:159:LYS:HE2	1.88	0.55
1:Y8:355:TYR:HB3	1:Y8:379:TYR:HB3	1.88	0.55
3:A9:23:HIS:CE1	3:AA:159:HIS:NE2	2.75	0.55
3:AA:112:ILE:CG2	2:MK:13:THR:HA	2.35	0.55
4:BA:193:VAL:HG12	4:BC:144:GLN:NE2	2.13	0.55
3:AC:23:HIS:CE1	3:AH:159:HIS:NE2	2.75	0.55
1:AD:60:GLU:CG	1:KD:87:GLU:N	2.63	0.55
1:AD:123:ASN:ND2	1:KK:21:ALA:HB1	2.12	0.55
1:KD:55:PHE:CB	1:IS:120:LEU:HD12	2.35	0.55
1:KD:149:THR:HG22	2:LS:15:TYR:CB	2.12	0.55
2:MD:2:TYR:CG	2:GK:54:THR:OG1	2.56	0.55
1:DE:377:HIS:CD2	1:BP:370:ASP:CG	2.85	0.55
1:BE:60:GLU:HG3	1:BE:62:LEU:HD21	1.89	0.55
1:BE:109:LEU:HD22	1:AP:108:MET:HE2	1.88	0.55
1:BE:223:GLY:N	1:CP:53:TYR:CD1	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:105:GLU:CB	1:LP:109:LEU:HD21	1.97	0.55
2:JE:2:TYR:N	1:DJ:150:ASN:OD1	2.40	0.55
1:KE:116:MET:HE1	1:QQ:54:LEU:HD11	0.78	0.55
1:KE:355:TYR:HB3	1:KE:379:TYR:HB3	1.88	0.55
1:cE:14:VAL:HG21	1:CG:14:VAL:HB	1.89	0.55
1:AG:64:ILE:HD11	1:BG:88:GLU:HG3	1.89	0.55
1:YG:131:PHE:HB3	1:YG:159:LYS:HE2	1.88	0.55
1:ZG:105:GLU:OE1	1:AL:110:LYS:HE2	2.06	0.55
3:AH:37:GLU:CD	3:AN:150:TYR:HB2	2.32	0.55
5:EI:140:ASP:HB3	5:CI:139:LYS:CG	2.25	0.55
1:AJ:223:GLY:CA	1:JS:53:TYR:CE2	2.90	0.55
1:BJ:33:TRP:CZ3	1:gL:316:VAL:HG11	2.42	0.55
1:KJ:143:GLN:C	1:AP:82:ILE:HG13	1.94	0.55
1:LJ:145:LEU:HD21	1:CS:80:ASP:O	2.07	0.55
1:CK:54:LEU:HD23	1:hR:116:MET:CE	2.24	0.55
1:KK:261:ILE:HG23	1:KK:265:ASP:OD1	2.01	0.55
1:LK:145:LEU:HD21	1:DP:80:ASP:O	2.07	0.55
1:BL:14:VAL:HG23	1:YR:14:VAL:CG2	2.36	0.55
1:DL:394:THR:HG23	1:DL:396:GLN:H	1.71	0.55
1:IL:304:GLN:HG3	1:ZR:97:ILE:HD12	1.87	0.55
1:IL:371:GLU:CD	1:ZR:111:ARG:HD3	2.31	0.55
1:LL:394:THR:HG23	1:LL:396:GLN:H	1.71	0.55
1:YL:367:PRO:O	1:QR:377:HIS:CE1	2.59	0.55
1:AP:128:LYS:HA	1:AP:376:ILE:O	2.07	0.55
1:DP:30:SER:HB3	1:hR:98:ASN:ND2	2.21	0.55
1:LP:353:LYS:HB3	1:LP:381:PHE:HB3	1.88	0.55
1:JQ:64:ILE:HD11	1:KQ:88:GLU:HG3	1.89	0.55
1:eQ:8:ASN:HD21	1:eQ:44:THR:HB	1.71	0.55
1:AR:62:LEU:HD13	1:AR:62:LEU:N	2.21	0.55
1:QR:355:TYR:HB3	1:QR:379:TYR:HB3	1.88	0.55
1:RR:104:ASN:ND2	1:RR:106:GLU:OE2	2.40	0.55
1:AS:68:LEU:HB2	1:AS:161:SER:HB2	1.88	0.55
1:BS:166:LEU:HG	1:KS:96:PRO:HD2	1.87	0.55
1:S1:98:ASN:HB3	1:CJ:28:ASP:C	2.27	0.55
1:X1:63:LEU:HD11	1:J6:91:ILE:CD1	2.37	0.55
1:Y1:91:ILE:CD1	1:I6:63:LEU:HD11	2.37	0.55
1:g1:60:GLU:HG3	1:g1:62:LEU:HD21	1.89	0.55
1:i1:394:THR:HG23	1:i1:396:GLN:H	1.71	0.55
3:A2:23:HIS:CE1	3:A9:159:HIS:NE2	2.75	0.55
3:A2:159:HIS:NE2	3:AB:23:HIS:CE1	2.75	0.55
1:A3:60:GLU:HG3	1:A3:62:LEU:HD21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:74:TRP:CZ3	2:X8:32:ILE:CD1	2.89	0.55
1:I3:125:ILE:HG22	1:I4:24:ASP:HB3	1.89	0.55
1:J3:60:GLU:HG3	1:J3:62:LEU:HD21	1.89	0.55
1:Q3:150:ASN:CG	2:f8:2:TYR:HB3	2.32	0.55
1:R3:97:ILE:HD12	1:I8:304:GLN:HG3	1.87	0.55
1:J4:97:ILE:HD12	1:C8:304:GLN:HG3	1.87	0.55
1:R4:109:LEU:HD22	1:IS:108:MET:HE2	1.88	0.55
1:f4:355:TYR:HB3	1:f4:379:TYR:HB3	1.88	0.55
1:g4:119:LYS:HE2	1:CD:38:LYS:CD	2.37	0.55
3:A5:112:ILE:CD1	2:MJ:27:ASN:ND2	2.70	0.55
1:C6:14:VAL:CG2	1:iG:14:VAL:HG23	2.36	0.55
1:C6:38:LYS:HD3	1:gG:222:SER:CA	2.35	0.55
1:I6:125:ILE:HG22	1:CL:24:ASP:HB3	1.89	0.55
1:L6:59:ASN:ND2	1:L8:79:GLN:OE1	2.39	0.55
1:Q6:131:PHE:HB3	1:Q6:159:LYS:HE2	1.88	0.55
1:Z6:60:GLU:HG3	1:Z6:62:LEU:HD21	1.89	0.55
1:Z6:62:LEU:HD13	1:Z6:62:LEU:N	2.21	0.55
2:f6:2:TYR:HB3	1:QQ:150:ASN:CG	2.32	0.55
1:g6:355:TYR:HB3	1:g6:379:TYR:HB3	1.88	0.55
1:h6:91:ILE:CD1	1:AE:63:LEU:HD11	2.37	0.55
1:C7:53:TYR:HB3	1:LK:118:THR:HB	1.88	0.55
1:C7:62:LEU:HD11	2:mR:53:PHE:O	2.03	0.55
1:C7:63:LEU:HD11	1:hR:91:ILE:CD1	2.37	0.55
1:C7:316:VAL:HA	1:DP:31:LYS:NZ	2.22	0.55
1:A7:91:ILE:CD1	1:gR:63:LEU:HD11	2.37	0.55
1:S7:14:VAL:HG23	1:QR:14:VAL:CG2	2.36	0.55
2:V7:1:MET:H2	1:ME:150:ASN:HD21	1.54	0.55
2:X7:22:LYS:HG2	1:QQ:360:LEU:HD23	1.88	0.55
1:Y7:314:GLY:O	1:KE:31:LYS:HG2	2.04	0.55
1:h7:104:ASN:ND2	1:h7:106:GLU:OE2	2.40	0.55
1:R8:60:GLU:HG3	1:R8:62:LEU:HD21	1.89	0.55
1:Z8:104:ASN:ND2	1:Z8:106:GLU:OE2	2.40	0.55
1:g8:131:PHE:HB3	1:g8:159:LYS:HE2	1.88	0.55
3:A9:37:GLU:CD	3:AA:150:TYR:HB2	2.32	0.55
5:E9:37:ASP:CB	3:AB:197:VAL:CG2	2.74	0.55
5:F9:51:ARG:CG	4:BB:32:PHE:CE1	2.89	0.55
3:AA:23:HIS:CE1	3:AC:159:HIS:NE2	2.75	0.55
3:AA:37:GLU:CD	3:AC:150:TYR:HB2	2.32	0.55
3:AA:209:MET:CG	4:BH:250:ILE:CD1	2.84	0.55
3:AB:233:GLU:OE1	3:AF:228:ILE:HD12	2.01	0.55
3:AC:118:ASP:OD1	3:AC:118:ASP:N	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BC:32:PHE:CE1	5:FN:51:ARG:CG	2.89	0.55
1:AD:118:THR:HG21	1:KK:53:TYR:C	2.31	0.55
1:DD:355:TYR:OH	1:KS:139:ARG:NH1	2.40	0.55
1:KD:53:TYR:HE1	1:IS:222:SER:O	1.90	0.55
1:KD:364:PHE:HE2	1:JS:108:MET:SD	2.27	0.55
1:LD:118:THR:HB	1:YG:53:TYR:HB3	1.88	0.55
1:DE:205:ILE:HD11	1:DE:240:ILE:HD11	1.88	0.55
1:FE:30:SER:C	1:CP:315:ALA:CB	2.80	0.55
1:KE:150:ASN:CG	2:PR:2:TYR:HB3	2.32	0.55
1:TE:64:ILE:HD11	1:UE:88:GLU:HG3	1.89	0.55
1:TE:104:ASN:ND2	1:TE:106:GLU:OE2	2.40	0.55
1:bE:97:ILE:HD12	1:CR:304:GLN:HG3	1.87	0.55
1:dE:98:ASN:HD22	1:dE:99:MET:H	1.52	0.55
5:EF:140:ASP:HB2	5:CF:139:LYS:HD2	1.84	0.55
1:JG:60:GLU:HG3	1:JG:62:LEU:HD21	1.89	0.55
1:hG:91:ILE:CD1	1:CL:63:LEU:HD11	2.37	0.55
5:DI:24:THR:CA	3:AN:7:GLY:N	2.47	0.55
5:FI:31:PHE:CE2	5:FO:47:ASP:CA	2.86	0.55
1:LJ:29:TYR:O	1:AS:98:ASN:ND2	2.38	0.55
2:MJ:2:TYR:HD1	2:FS:54:THR:OG1	1.86	0.55
1:CK:153:LEU:HD11	2:kR:3:GLU:O	2.07	0.55
1:KK:109:LEU:CD2	1:DP:109:LEU:HD22	2.37	0.55
1:LK:153:LEU:HD21	2:FP:3:GLU:O	2.01	0.55
2:MK:2:TYR:HD1	2:GP:54:THR:OG1	1.86	0.55
1:AL:62:LEU:HD13	1:AL:62:LEU:N	2.21	0.55
1:IL:367:PRO:O	1:IQ:377:HIS:CE1	2.59	0.55
1:JL:210:ASN:HD21	1:YR:71:ARG:HH22	1.43	0.55
1:YL:14:VAL:HB	1:SR:14:VAL:HG21	1.89	0.55
5:FM:46:TYR:CG	5:FO:31:PHE:CE2	2.74	0.55
1:KP:282:VAL:HB	1:KP:313:VAL:HA	1.89	0.55
1:JQ:60:GLU:HG3	1:JQ:62:LEU:HD21	1.89	0.55
1:TQ:205:ILE:HD11	1:TQ:240:ILE:HD11	1.88	0.55
1:YQ:316:VAL:HG11	1:AS:33:TRP:CZ3	2.42	0.55
1:JR:64:ILE:HD11	1:KR:88:GLU:HG3	1.89	0.55
1:J1:97:ILE:HD12	1:IG:304:GLN:HG3	1.87	0.55
1:R1:62:LEU:HD13	1:R1:62:LEU:N	2.21	0.55
1:T1:368:GLU:HG2	1:LJ:107:LEU:CD1	2.37	0.55
2:W1:1:MET:HB3	1:CS:150:ASN:HD21	1.72	0.55
1:X1:38:LYS:HD3	1:I8:222:SER:CA	2.35	0.55
1:a1:394:THR:HG23	1:a1:396:GLN:H	1.71	0.55
1:f1:304:GLN:HG3	1:AQ:97:ILE:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:73:ALA:O	3:A2:74:ARG:NE	2.37	0.55
5:E2:37:ASP:CB	3:AF:197:VAL:CG2	2.74	0.55
1:C3:38:LYS:HD3	1:QG:222:SER:CA	2.35	0.55
1:L3:205:ILE:HD11	1:L3:240:ILE:HD11	1.88	0.55
2:P3:32:ILE:CD1	1:Q8:74:TRP:CZ3	2.89	0.55
1:R3:368:GLU:OE1	1:T3:375:TRP:NE1	2.35	0.55
1:b3:8:ASN:HD21	1:b3:44:THR:HB	1.71	0.55
1:b3:316:VAL:HG11	1:BD:33:TRP:CZ3	2.42	0.55
1:C4:74:TRP:CZ3	2:XG:32:ILE:CD1	2.89	0.55
1:I4:304:GLN:HG3	1:A8:97:ILE:HD12	1.87	0.55
1:J4:60:GLU:HG3	1:J4:62:LEU:HD21	1.89	0.55
2:W4:32:ILE:CD1	1:g8:74:TRP:CZ3	2.89	0.55
1:a4:79:GLN:OE1	1:L8:59:ASN:ND2	2.39	0.55
1:a4:205:ILE:HD11	1:a4:240:ILE:HD11	1.88	0.55
1:f4:62:LEU:HD11	2:fG:53:PHE:O	2.03	0.55
1:g4:104:ASN:ND2	1:g4:106:GLU:OE2	2.40	0.55
1:i4:368:GLU:HG2	1:LD:107:LEU:CD1	2.37	0.55
3:A5:23:HIS:CE1	3:AI:159:HIS:NE2	2.75	0.55
3:A5:202:ASN:HD21	5:DM:38:TYR:C	2.15	0.55
1:C6:208:LEU:HD11	1:C6:391:ILE:HD13	1.46	0.55
1:D6:394:THR:HG23	1:D6:396:GLN:H	1.71	0.55
1:I6:24:ASP:HB3	1:YR:125:ILE:HG22	1.89	0.55
1:S6:57:LYS:CD	1:CS:143:GLN:HE21	1.20	0.55
1:S6:137:ASP:HB3	1:CS:50:VAL:HG23	1.89	0.55
1:Y6:63:LEU:HD11	1:LE:91:ILE:CD1	2.37	0.55
1:Z6:91:ILE:CD1	1:KE:63:LEU:HD11	2.37	0.55
1:g6:63:LEU:HD11	1:BE:91:ILE:CD1	2.37	0.55
1:C7:32:SER:CB	1:LK:316:VAL:HG21	2.34	0.55
1:B7:57:LYS:CD	1:DP:143:GLN:HE21	1.20	0.55
1:B7:137:ASP:HB3	1:DP:50:VAL:HG23	1.89	0.55
1:I7:24:ASP:HB3	1:gR:125:ILE:HG22	1.89	0.55
1:I7:63:LEU:HD11	1:cQ:91:ILE:CD1	2.37	0.55
1:I7:128:LYS:CD	1:cQ:99:MET:SD	2.92	0.55
1:Q7:367:PRO:O	1:YL:377:HIS:CE1	2.59	0.55
1:R7:91:ILE:CD1	1:QQ:63:LEU:HD11	2.37	0.55
1:b7:205:ILE:HD11	1:b7:240:ILE:HD11	1.88	0.55
1:h7:64:ILE:HD11	1:i7:88:GLU:HG3	1.89	0.55
1:b8:394:THR:HG23	1:b8:396:GLN:H	1.71	0.55
2:c8:44:GLN:OE1	2:c8:44:GLN:HA	2.02	0.55
1:h8:110:LYS:HE2	1:ZR:105:GLU:OE1	2.06	0.55
1:j8:59:ASN:ND2	1:LL:79:GLN:OE1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B9:196:SER:HA	4:BA:143:ASN:HA	1.87	0.55
1:KD:51:ASN:CG	1:IS:116:MET:HG3	2.30	0.55
1:KD:109:LEU:CD2	1:DK:109:LEU:HD22	2.37	0.55
1:KD:282:VAL:HB	1:KD:313:VAL:HA	1.89	0.55
1:LD:57:LYS:HA	1:KK:58:ILE:HG22	1.82	0.55
1:LD:178:TYR:HB2	1:YG:35:PHE:CE1	2.42	0.55
1:LD:222:SER:HB2	1:YG:38:LYS:HA	1.88	0.55
2:HE:1:MET:H1	1:CP:150:ASN:ND2	1.93	0.55
2:JE:1:MET:HB3	1:DJ:150:ASN:HD21	1.72	0.55
3:AF:150:TYR:HB2	3:AM:37:GLU:CD	2.32	0.55
3:AF:159:HIS:NE2	3:AM:23:HIS:CE1	2.75	0.55
1:CG:304:GLN:HG3	1:ZL:97:ILE:HD12	1.87	0.55
1:IG:355:TYR:HB3	1:IG:379:TYR:HB3	1.88	0.55
1:bG:205:ILE:HD11	1:bG:240:ILE:HD11	1.88	0.55
1:bG:394:THR:HG23	1:bG:396:GLN:H	1.71	0.55
1:hG:99:MET:SD	1:CL:128:LYS:CD	2.92	0.55
1:jG:8:ASN:HD21	1:jG:44:THR:HB	1.71	0.55
1:DJ:116:MET:HE1	1:LP:54:LEU:HD13	1.89	0.55
1:DJ:355:TYR:OH	1:LP:139:ARG:NH1	2.40	0.55
1:KJ:21:ALA:HB1	1:AP:123:ASN:ND2	2.12	0.55
1:KJ:32:SER:HB2	1:AP:316:VAL:CG2	2.36	0.55
1:CK:127:LYS:HE3	1:LK:96:PRO:HB2	1.89	0.55
1:LK:139:ARG:NH1	1:DP:355:TYR:OH	2.40	0.55
1:JL:60:GLU:HG3	1:JL:62:LEU:HD21	1.89	0.55
1:ZL:104:ASN:ND2	1:ZL:106:GLU:OE2	2.40	0.55
4:BN:139:ASP:N	4:BN:139:ASP:OD1	2.40	0.55
5:EN:140:ASP:HB2	5:CN:139:LYS:HD2	1.84	0.55
1:LQ:179:SER:HG	1:LQ:341:TYR:HH	1.55	0.55
1:DR:8:ASN:HD21	1:DR:44:THR:HB	1.71	0.55
1:QR:131:PHE:HB3	1:QR:159:LYS:HE2	1.88	0.55
1:BS:127:LYS:HE3	1:KS:96:PRO:HB2	1.89	0.55
1:KS:162:ASP:HA	1:KS:165:VAL:HG12	1.88	0.55
1:I1:14:VAL:HB	1:UE:14:VAL:HG21	1.89	0.54
1:I1:24:ASP:HB3	1:SE:125:ILE:HG22	1.89	0.54
1:I1:46:PHE:HD1	1:JG:85:TYR:OH	1.87	0.54
1:I1:304:GLN:HG3	1:JG:97:ILE:HD12	1.87	0.54
1:X1:371:GLU:OE1	1:J6:111:ARG:CD	2.44	0.54
1:Y1:104:ASN:ND2	1:Y1:106:GLU:OE2	2.40	0.54
1:g1:111:ARG:HD3	1:CQ:371:GLU:CD	2.31	0.54
2:m1:22:LYS:HG2	1:CQ:360:LEU:HD23	1.89	0.54
5:E2:66:TYR:HB2	5:EB:10:TYR:CZ	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:71:ARG:HH22	1:R8:210:ASN:HD21	1.43	0.54
1:I3:371:GLU:CD	1:R8:111:ARG:HD3	2.31	0.54
1:Q3:63:LEU:HD11	1:J8:91:ILE:CD1	2.37	0.54
1:Q3:131:PHE:HB3	1:Q3:159:LYS:HE2	1.88	0.54
1:Q3:355:TYR:HB3	1:Q3:379:TYR:HB3	1.88	0.54
1:I4:355:TYR:HB3	1:I4:379:TYR:HB3	1.88	0.54
1:i4:394:THR:HG23	1:i4:396:GLN:H	1.71	0.54
1:I6:14:VAL:HG23	1:aR:14:VAL:CG2	2.35	0.54
1:Q6:27:HIS:CG	1:LJ:312:PRO:HB3	2.40	0.54
1:Q6:61:THR:OG1	1:CJ:57:LYS:HE3	2.07	0.54
1:g6:300:TYR:CA	1:BE:115:ARG:HH22	2.16	0.54
1:C7:35:PHE:CE1	1:LK:178:TYR:HB2	2.42	0.54
1:C7:304:GLN:CG	1:hR:97:ILE:HD12	2.35	0.54
1:A7:104:ASN:ND2	1:A7:106:GLU:OE2	2.40	0.54
1:J7:62:LEU:HD13	1:J7:62:LEU:N	2.21	0.54
1:Y7:131:PHE:HB3	1:Y7:159:LYS:HE2	1.88	0.54
1:Y7:304:GLN:HG3	1:JR:97:ILE:HD12	1.87	0.54
1:g7:125:ILE:HG22	1:C8:24:ASP:HB3	1.89	0.54
1:g8:45:MET:HG2	1:BS:14:VAL:HG23	1.89	0.54
1:g8:58:ILE:CD1	1:BS:55:PHE:CB	2.85	0.54
1:g8:61:THR:OG1	1:BS:57:LYS:HE3	2.07	0.54
5:E9:140:ASP:OD2	5:C9:139:LYS:HE2	1.99	0.54
3:AA:73:ALA:O	3:AA:74:ARG:NE	2.37	0.54
1:AD:281:LYS:NZ	1:AD:332:GLU:OE2	2.40	0.54
1:KD:369:PHE:O	1:JS:99:MET:CE	2.56	0.54
1:LD:145:LEU:HD21	1:DK:80:ASP:O	2.07	0.54
1:KE:81:PHE:HD2	1:QQ:139:ARG:HD3	1.64	0.54
1:aE:63:LEU:HD11	1:AR:91:ILE:CD1	2.37	0.54
1:bE:99:MET:SD	1:CR:128:LYS:CD	2.92	0.54
1:IG:131:PHE:HB3	1:IG:159:LYS:HE2	1.88	0.54
1:TG:394:THR:HG23	1:TG:396:GLN:H	1.71	0.54
3:AI:112:ILE:O	2:MJ:5:ASN:O	2.24	0.54
5:EI:57:GLU:HA	4:BN:33:TYR:CZ	2.37	0.54
1:AJ:43:ASN:CA	5:DN:25:ARG:NH1	2.69	0.54
1:AJ:81:PHE:CB	1:JS:139:ARG:HH11	2.20	0.54
1:LJ:139:ARG:NH1	1:CS:355:TYR:OH	2.40	0.54
1:AK:81:PHE:CB	1:KP:139:ARG:HH11	2.20	0.54
1:CK:38:LYS:CD	1:hR:119:LYS:HE2	2.37	0.54
1:CK:38:LYS:HD2	1:hR:222:SER:N	2.06	0.54
1:KK:108:MET:SD	1:KP:364:PHE:HE2	2.27	0.54
1:LK:45:MET:CG	1:KP:19:LYS:CE	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:148:ALA:O	2:FP:15:TYR:CD2	2.31	0.54
1:LK:368:GLU:OE1	1:DP:130:LYS:HB2	2.07	0.54
1:RL:62:LEU:HD13	1:RL:62:LEU:N	2.21	0.54
1:YL:24:ASP:HB3	1:QR:125:ILE:HG22	1.89	0.54
1:AP:237:ASP:N	1:AP:237:ASP:OD1	2.37	0.54
1:AP:281:LYS:NZ	1:AP:332:GLU:OE2	2.40	0.54
1:CQ:125:ILE:HG22	1:gR:24:ASP:HB3	1.89	0.54
1:CQ:131:PHE:HB3	1:CQ:159:LYS:HE2	1.88	0.54
1:CQ:150:ASN:CG	2:iQ:2:TYR:HB3	2.32	0.54
1:AQ:64:ILE:HD11	1:BQ:88:GLU:HG3	1.89	0.54
1:YR:131:PHE:HB3	1:YR:159:LYS:HE2	1.88	0.54
1:BS:356:THR:OG1	1:BS:359:MET:SD	2.65	0.54
1:C1:38:LYS:HD3	1:bQ:222:SER:CA	2.35	0.54
1:D1:394:THR:HG23	1:D1:396:GLN:H	1.71	0.54
1:J1:99:MET:SD	1:IG:128:LYS:CD	2.92	0.54
1:R1:60:GLU:HG3	1:R1:62:LEU:HD21	1.89	0.54
1:R1:119:LYS:HE2	1:CJ:38:LYS:CD	2.37	0.54
1:X1:128:LYS:CD	1:J6:99:MET:SD	2.92	0.54
1:X1:304:GLN:CG	1:J6:97:ILE:HD12	2.35	0.54
1:i1:79:GLN:OE1	1:D4:59:ASN:ND2	2.39	0.54
1:I3:62:LEU:HD11	2:X8:53:PHE:O	2.03	0.54
1:Q3:38:LYS:HD3	1:X4:222:SER:CA	2.35	0.54
1:R3:62:LEU:HD13	1:R3:62:LEU:N	2.21	0.54
1:C4:125:ILE:HG22	1:aE:24:ASP:HB3	1.89	0.54
1:A4:110:LYS:HE2	1:AQ:105:GLU:OE1	2.06	0.54
2:H4:32:ILE:CD1	1:QG:74:TRP:CZ3	2.89	0.54
1:I4:131:PHE:HB3	1:I4:159:LYS:HE2	1.88	0.54
1:Q4:222:SER:CA	1:IQ:38:LYS:HD3	2.35	0.54
1:R4:64:ILE:HD11	1:S4:88:GLU:HG3	1.89	0.54
1:R4:104:ASN:ND2	1:R4:106:GLU:OE2	2.40	0.54
1:R4:223:GLY:HA3	1:BS:53:TYR:CE2	2.41	0.54
1:X4:24:ASP:HB3	1:CR:125:ILE:HG22	1.89	0.54
1:a4:394:THR:HG23	1:a4:396:GLN:H	1.71	0.54
2:e4:53:PHE:O	1:Y8:62:LEU:HD11	2.03	0.54
1:h4:14:VAL:HG21	1:gG:14:VAL:HB	1.89	0.54
1:i4:30:SER:O	1:CD:315:ALA:CA	2.44	0.54
1:J6:62:LEU:HD13	1:J6:62:LEU:N	2.21	0.54
1:Q6:38:LYS:HA	1:LJ:222:SER:HB2	1.88	0.54
1:Q6:53:TYR:HB3	1:LJ:118:THR:HB	1.88	0.54
1:Y6:125:ILE:HG22	1:SE:24:ASP:HB3	1.89	0.54
1:b6:8:ASN:HD21	1:b6:44:THR:HB	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:58:ILE:CD1	1:CP:55:PHE:CB	2.85	0.54
1:i6:25:PHE:HE1	1:BJ:126:VAL:CG1	2.20	0.54
1:D7:394:THR:HG23	1:D7:396:GLN:H	1.71	0.54
1:Q7:63:LEU:HD11	1:RQ:91:ILE:CD1	2.37	0.54
1:Y7:62:LEU:HD11	2:PR:53:PHE:O	2.03	0.54
1:Y7:63:LEU:HD11	1:JR:91:ILE:CD1	2.37	0.54
1:Y7:355:TYR:HB3	1:Y7:379:TYR:HB3	1.88	0.54
1:Z7:99:MET:SD	1:IR:128:LYS:CD	2.92	0.54
1:Z7:104:ASN:ND2	1:Z7:106:GLU:OE2	2.40	0.54
1:i7:14:VAL:HG21	1:C8:14:VAL:HB	1.89	0.54
1:j7:8:ASN:HD21	1:j7:44:THR:HB	1.71	0.54
1:I8:131:PHE:HB3	1:I8:159:LYS:HE2	1.88	0.54
1:R8:104:ASN:ND2	1:R8:106:GLU:OE2	2.40	0.54
1:T8:59:ASN:ND2	1:TL:79:GLN:OE1	2.39	0.54
1:a8:14:VAL:HG21	1:bQ:14:VAL:HB	1.89	0.54
1:g8:27:HIS:CA	1:IS:100:ASP:OD2	2.52	0.54
1:g8:38:LYS:HA	1:KS:222:SER:HB2	1.88	0.54
1:g8:53:TYR:HB3	1:KS:118:THR:HB	1.88	0.54
3:A9:194:ASN:OD1	5:EC:36:ALA:O	2.21	0.54
3:A9:197:VAL:HG11	5:DH:40:THR:CG2	2.27	0.54
4:B9:251:TRP:NE1	3:AB:208:LYS:HB3	2.20	0.54
5:E9:57:GLU:HA	4:BB:33:TYR:CZ	2.37	0.54
3:AB:114:PHE:HB2	1:AD:360:LEU:HD21	1.88	0.54
3:AC:308:THR:HG21	3:AH:300:LYS:HZ1	1.71	0.54
5:CC:265:LEU:HD23	5:NH:233:GLU:H	1.72	0.54
2:HD:33:ASP:O	2:HD:36:LYS:NZ	2.39	0.54
1:KD:47:GLU:HB2	1:KS:22:LEU:CD2	2.29	0.54
1:LD:55:PHE:CB	1:DK:87:GLU:CD	2.81	0.54
1:DE:316:VAL:HG11	1:BP:33:TRP:CZ3	2.42	0.54
1:BE:223:GLY:HA3	1:CP:53:TYR:CE2	2.41	0.54
1:FE:8:ASN:HD21	1:FE:44:THR:HB	1.71	0.54
1:ME:14:VAL:CG2	1:QQ:14:VAL:HG23	2.35	0.54
1:aE:125:ILE:HG22	1:CG:24:ASP:HB3	1.89	0.54
1:AG:104:ASN:ND2	1:AG:106:GLU:OE2	2.40	0.54
1:RG:64:ILE:HD11	1:SG:88:GLU:HG3	1.89	0.54
1:ZG:62:LEU:HD13	1:ZG:62:LEU:N	2.21	0.54
1:gG:63:LEU:HD11	1:AL:91:ILE:CD1	2.37	0.54
2:nG:2:TYR:HB3	1:YR:150:ASN:CG	2.32	0.54
3:AH:197:VAL:HG11	5:DI:40:THR:CG2	2.27	0.54
4:BH:4:TYR:H	5:EH:36:ALA:HB2	1.73	0.54
4:BI:139:ASP:N	4:BI:139:ASP:OD1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:377:HIS:NE2	1:JS:370:ASP:HB2	2.22	0.54
1:BJ:370:ASP:CG	1:gL:377:HIS:CD2	2.85	0.54
1:CJ:127:LYS:HE3	1:LJ:96:PRO:HB2	1.89	0.54
1:DJ:361:LYS:HB3	1:LP:367:PRO:HB3	1.87	0.54
1:KK:282:VAL:HB	1:KK:313:VAL:HA	1.89	0.54
1:CP:326:GLU:O	1:CP:326:GLU:HG3	2.06	0.54
1:DP:369:PHE:HZ	1:hR:104:ASN:O	1.90	0.54
1:LP:162:ASP:HA	1:LP:165:VAL:HG12	1.88	0.54
1:CQ:377:HIS:CE1	1:gR:367:PRO:O	2.59	0.54
1:BQ:14:VAL:CG2	1:gR:14:VAL:HG23	2.35	0.54
1:YQ:377:HIS:CD2	1:AS:370:ASP:CG	2.85	0.54
1:cQ:104:ASN:ND2	1:cQ:106:GLU:OE2	2.40	0.54
1:AS:281:LYS:NZ	1:AS:313:VAL:O	2.40	0.54
1:A1:104:ASN:ND2	1:A1:106:GLU:OE2	2.40	0.54
1:J1:368:GLU:OE1	1:L1:375:TRP:NE1	2.35	0.54
1:Q1:355:TYR:HB3	1:Q1:379:TYR:HB3	1.88	0.54
1:R1:64:ILE:HD11	1:S1:88:GLU:HG3	1.89	0.54
1:T1:79:GLN:OE1	1:L3:59:ASN:ND2	2.39	0.54
1:Y1:85:TYR:OH	1:I6:46:PHE:HD1	1.87	0.54
1:Z1:14:VAL:HG21	1:IR:14:VAL:HB	1.89	0.54
1:g1:104:ASN:ND2	1:g1:106:GLU:OE2	2.40	0.54
4:B2:193:VAL:HG12	4:B9:144:GLN:NE2	2.12	0.54
2:H3:2:TYR:HB3	1:C8:150:ASN:CG	2.32	0.54
1:J3:104:ASN:ND2	1:J3:106:GLU:OE2	2.40	0.54
1:J3:111:ARG:HD3	1:Q8:371:GLU:CD	2.31	0.54
1:Q3:304:GLN:HG3	1:J8:97:ILE:HD12	1.87	0.54
1:R3:60:GLU:HG3	1:R3:62:LEU:HD21	1.89	0.54
1:R3:259:PHE:HE1	1:I8:259:PHE:HE1	1.48	0.54
1:C4:377:HIS:CE1	1:aE:367:PRO:O	2.59	0.54
1:T4:394:THR:HG23	1:T4:396:GLN:H	1.71	0.54
1:X4:14:VAL:CG2	1:BR:14:VAL:HG23	2.36	0.54
1:X4:14:VAL:HB	1:BR:14:VAL:HG21	1.89	0.54
1:X4:38:LYS:HD3	1:CR:222:SER:CA	2.35	0.54
1:Y4:62:LEU:HD13	1:Y4:62:LEU:N	2.21	0.54
1:Y4:104:ASN:ND2	1:Y4:106:GLU:OE2	2.40	0.54
1:g4:111:ARG:HD3	1:YG:371:GLU:CD	2.32	0.54
2:l4:3:GLU:C	1:DK:153:LEU:CD2	2.78	0.54
4:B5:193:VAL:HG12	4:BI:144:GLN:NE2	2.12	0.54
1:C6:14:VAL:HB	1:iG:14:VAL:HG21	1.89	0.54
1:A6:104:ASN:ND2	1:A6:106:GLU:OE2	2.40	0.54
1:I6:208:LEU:HD11	1:I6:391:ILE:HD13	1.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I6:367:PRO:O	1:YR:377:HIS:CE1	2.59	0.54
1:L6:205:ILE:HD11	1:L6:240:ILE:HD11	1.88	0.54
1:Q6:35:PHE:CE1	1:LJ:178:TYR:HB2	2.42	0.54
1:R6:64:ILE:HD11	1:S6:88:GLU:HG3	1.89	0.54
1:Z6:104:ASN:ND2	1:Z6:106:GLU:OE2	2.40	0.54
1:J7:91:ILE:CD1	1:bQ:63:LEU:HD11	2.37	0.54
1:Y7:125:ILE:HG22	1:KE:24:ASP:HB3	1.89	0.54
1:g7:24:ASP:HB3	1:AE:125:ILE:HG22	1.89	0.54
1:A8:368:GLU:OE1	1:D8:375:TRP:NE1	2.35	0.54
1:i8:57:LYS:CD	1:DD:143:GLN:HE21	1.20	0.54
3:A9:208:LYS:C	4:BC:250:ILE:HD12	2.30	0.54
3:AB:150:TYR:O	1:AD:148:ALA:CB	2.56	0.54
1:BD:100:ASP:OD1	1:KS:26:ASN:OD1	2.22	0.54
1:DD:109:LEU:HD22	1:JS:109:LEU:CD2	2.37	0.54
1:KD:47:GLU:CD	1:KS:22:LEU:HD22	2.29	0.54
1:KD:145:LEU:HD23	2:LS:15:TYR:C	2.26	0.54
1:LD:22:LEU:CD2	1:KK:47:GLU:HB2	2.29	0.54
1:BE:104:ASN:ND2	1:BE:106:GLU:OE2	2.40	0.54
1:BE:222:SER:HA	1:CP:38:LYS:CE	1.90	0.54
1:aE:222:SER:CA	1:CG:38:LYS:HD3	2.35	0.54
1:bE:104:ASN:ND2	1:bE:106:GLU:OE2	2.40	0.54
4:BF:4:TYR:H	5:EF:36:ALA:HB2	1.73	0.54
1:AG:62:LEU:HD13	1:AG:62:LEU:N	2.21	0.54
1:RG:104:ASN:ND2	1:RG:106:GLU:OE2	2.40	0.54
1:hG:104:ASN:ND2	1:hG:106:GLU:OE2	2.40	0.54
1:jG:394:THR:HG23	1:jG:396:GLN:H	1.71	0.54
5:FH:31:PHE:CE2	5:FN:46:TYR:CG	2.74	0.54
1:AJ:223:GLY:CA	1:JS:53:TYR:CD2	2.91	0.54
1:DJ:87:GLU:CD	1:LP:55:PHE:CB	2.81	0.54
1:DJ:109:LEU:HD22	1:KP:109:LEU:CD2	2.37	0.54
2:FJ:3:GLU:O	1:LP:153:LEU:HD21	2.01	0.54
1:KJ:139:ARG:HH11	1:AP:81:PHE:CB	2.20	0.54
1:KJ:357:LYS:HE3	3:AN:67:ASN:OD1	2.02	0.54
1:LJ:54:LEU:HD13	1:CS:116:MET:HE1	1.89	0.54
1:CK:149:THR:HG21	2:kR:16:GLU:HG2	1.90	0.54
1:LK:28:ASP:HB3	1:DP:304:GLN:CG	2.36	0.54
1:LK:55:PHE:CB	1:DP:87:GLU:CD	2.81	0.54
2:MK:2:TYR:HD2	1:KP:153:LEU:HD11	1.60	0.54
1:JL:111:ARG:HD3	1:YR:371:GLU:CD	2.31	0.54
1:QL:355:TYR:HB3	1:QL:379:TYR:HB3	1.88	0.54
1:RL:60:GLU:HG3	1:RL:62:LEU:HD21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RL:64:ILE:HD11	1:SL:88:GLU:HG3	1.89	0.54
1:ZL:60:GLU:HG3	1:ZL:62:LEU:HD21	1.89	0.54
1:BP:179:SER:HB3	1:BP:392:LEU:HD12	1.90	0.54
1:DP:150:ASN:HD21	2:mR:1:MET:HB3	1.72	0.54
1:KP:261:ILE:HG23	1:KP:265:ASP:OD1	2.01	0.54
1:LQ:394:THR:HG23	1:LQ:396:GLN:H	1.71	0.54
1:eQ:394:THR:HG23	1:eQ:396:GLN:H	1.71	0.54
1:AR:60:GLU:HG3	1:AR:62:LEU:HD21	1.89	0.54
1:AR:104:ASN:ND2	1:AR:106:GLU:OE2	2.40	0.54
1:DR:394:THR:HG23	1:DR:396:GLN:H	1.71	0.54
1:JR:60:GLU:HG3	1:JR:62:LEU:HD21	1.89	0.54
1:ZR:64:ILE:HD11	1:aR:88:GLU:HG3	1.89	0.54
1:AS:179:SER:HB3	1:AS:392:LEU:HD12	1.90	0.54
1:C1:63:LEU:HD11	1:A6:91:ILE:CD1	2.37	0.54
1:C1:359:MET:HE1	2:H6:24:THR:HG21	1.90	0.54
2:H1:2:TYR:HB3	1:f4:150:ASN:CG	2.32	0.54
2:H1:24:THR:HG21	1:C6:359:MET:HE1	1.90	0.54
1:I1:150:ASN:CG	2:PQ:2:TYR:HB3	2.32	0.54
1:K1:150:ASN:HD21	2:PE:1:MET:H2	1.53	0.54
1:Q1:63:LEU:HD11	1:R6:91:ILE:CD1	2.37	0.54
1:R1:109:LEU:HD22	1:AJ:108:MET:HE2	1.88	0.54
1:R1:118:THR:HG23	1:CJ:53:TYR:HB3	1.88	0.54
1:T1:14:VAL:HG13	1:BJ:46:PHE:HE2	1.72	0.54
1:T1:30:SER:C	1:CJ:315:ALA:CB	2.80	0.54
1:A3:104:ASN:ND2	1:A3:106:GLU:OE2	2.40	0.54
1:D3:394:THR:HG23	1:D3:396:GLN:H	1.71	0.54
1:I3:128:LYS:CD	1:R8:99:MET:SD	2.92	0.54
1:J3:99:MET:SD	1:Q8:128:LYS:CD	2.92	0.54
1:b3:394:THR:HG23	1:b3:396:GLN:H	1.71	0.54
1:Q4:74:TRP:CZ3	2:n8:32:ILE:CD1	2.89	0.54
1:R4:223:GLY:N	1:BS:53:TYR:CD1	2.75	0.54
1:T4:363:PRO:CG	2:GS:9:SER:HB2	2.29	0.54
1:X4:371:GLU:CD	1:Z8:111:ARG:HD3	2.32	0.54
1:g4:99:MET:SD	1:YG:128:LYS:CD	2.92	0.54
1:Q6:45:MET:HG2	1:CJ:14:VAL:HG23	1.89	0.54
1:S6:25:PHE:HE1	1:AS:126:VAL:CG1	2.20	0.54
1:Z6:115:ARG:HH22	1:KE:300:TYR:CA	2.16	0.54
1:h6:60:GLU:HG3	1:h6:62:LEU:HD21	1.89	0.54
2:k6:44:GLN:HA	2:k6:44:GLN:OE1	2.02	0.54
1:C7:45:MET:HG2	1:CK:14:VAL:HG23	1.89	0.54
1:B7:368:GLU:CD	1:CP:107:LEU:HD22	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E7:44:GLN:OE1	2:E7:44:GLN:HA	2.02	0.54
1:I7:204:ALA:O	1:I7:207:ASN:HB2	2.08	0.54
1:g8:32:SER:CB	1:KS:316:VAL:HG21	2.34	0.54
1:i8:25:PHE:HE1	1:BD:126:VAL:CG1	2.20	0.54
3:A9:202:ASN:HD21	5:DH:38:TYR:C	2.15	0.54
5:E9:10:TYR:CZ	5:EA:66:TYR:HB2	2.31	0.54
3:AA:208:LYS:C	4:BH:250:ILE:HD12	2.30	0.54
1:CD:57:LYS:HE3	1:YG:61:THR:OG1	2.07	0.54
1:KD:98:ASN:HB3	1:KK:28:ASP:C	2.32	0.54
1:KD:108:MET:SD	1:KK:364:PHE:HE2	2.27	0.54
1:LD:315:ALA:CB	1:YG:30:SER:CA	2.85	0.54
1:BE:119:LYS:HE2	1:CP:38:LYS:CD	2.37	0.54
1:FE:368:GLU:HG2	1:LP:107:LEU:CD1	2.37	0.54
2:JE:5:ASN:N	1:DJ:153:LEU:HD11	2.12	0.54
2:JE:9:SER:HB2	1:DJ:363:PRO:CG	2.32	0.54
2:OE:44:GLN:OE1	2:OE:44:GLN:HA	2.02	0.54
1:VE:8:ASN:HD21	1:VE:44:THR:HB	1.71	0.54
2:HG:24:THR:HG21	1:YL:359:MET:HE1	1.90	0.54
1:ZG:104:ASN:ND2	1:ZG:106:GLU:OE2	2.40	0.54
1:aG:25:PHE:HE1	1:BK:126:VAL:CG1	2.20	0.54
3:AI:204:ALA:O	3:AO:181:SER:OG	2.19	0.54
1:BJ:138:THR:CG2	2:iL:15:TYR:OH	2.56	0.54
1:BJ:179:SER:HB3	1:BJ:392:LEU:HD12	1.90	0.54
2:FJ:16:GLU:HA	1:LP:145:LEU:HD12	1.89	0.54
1:LJ:55:PHE:CB	1:CS:87:GLU:CD	2.81	0.54
2:MJ:11:MET:HE3	1:JS:372:VAL:HG21	1.68	0.54
1:AK:108:MET:HE2	1:hR:109:LEU:HD22	1.88	0.54
1:AK:281:LYS:NZ	1:AK:332:GLU:OE2	2.40	0.54
1:CK:28:ASP:HB2	1:hR:304:GLN:HE21	1.73	0.54
1:CK:53:TYR:CD1	1:hR:223:GLY:N	2.75	0.54
1:CK:70:ASN:OD1	1:CK:354:ARG:NH2	2.41	0.54
1:LK:216:ASN:ND2	1:LK:229:TYR:O	2.40	0.54
1:JL:104:ASN:ND2	1:JL:106:GLU:OE2	2.40	0.54
1:QL:63:LEU:HD11	1:RR:91:ILE:CD1	2.37	0.54
1:RL:91:ILE:CD1	1:QR:63:LEU:HD11	2.37	0.54
1:YL:14:VAL:CG2	1:SR:14:VAL:HG23	2.36	0.54
1:ZL:64:ILE:HD11	1:aL:88:GLU:HG3	1.89	0.54
1:CP:127:LYS:HE3	1:LP:96:PRO:HB2	1.89	0.54
1:RQ:104:ASN:ND2	1:RQ:106:GLU:OE2	2.40	0.54
1:TQ:79:GLN:OE1	1:LR:59:ASN:ND2	2.39	0.54
1:cQ:64:ILE:HD11	1:dQ:88:GLU:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JR:62:LEU:HD13	1:JR:62:LEU:N	2.21	0.54
1:hR:62:LEU:HD13	1:hR:62:LEU:N	2.21	0.54
1:jR:8:ASN:HD21	1:jR:44:THR:HB	1.71	0.54
1:jR:205:ILE:HD11	1:jR:240:ILE:HD11	1.88	0.54
1:C1:14:VAL:HB	1:dQ:14:VAL:HG21	1.89	0.54
1:A1:91:ILE:CD1	1:C6:63:LEU:HD11	2.37	0.54
1:K1:14:VAL:HG21	1:Y6:14:VAL:HB	1.89	0.54
1:Q1:131:PHE:HB3	1:Q1:159:LYS:HE2	1.88	0.54
1:R1:91:ILE:CD1	1:Q6:63:LEU:HD11	2.37	0.54
1:R1:105:GLU:HB2	1:AS:110:LYS:CE	2.29	0.54
1:S1:107:LEU:HD12	1:S1:110:LYS:HD3	1.90	0.54
1:X1:204:ALA:O	1:X1:207:ASN:HB2	2.08	0.54
1:Y1:99:MET:SD	1:I6:128:LYS:CD	2.92	0.54
2:b1:44:GLN:OE1	2:b1:44:GLN:HA	2.02	0.54
1:g1:99:MET:SD	1:CQ:128:LYS:CD	2.92	0.54
2:m1:24:THR:HG21	1:CQ:359:MET:HE1	1.90	0.54
1:C3:22:LEU:HB3	1:SG:47:GLU:HG2	1.90	0.54
1:C3:63:LEU:HD11	1:h7:91:ILE:CD1	2.37	0.54
1:C3:208:LEU:HD12	1:C3:391:ILE:HD11	1.89	0.54
1:C4:63:LEU:HD11	1:RG:91:ILE:CD1	2.37	0.54
1:B4:47:GLU:HG2	1:aE:22:LEU:HB3	1.90	0.54
2:H4:24:THR:HG21	1:QG:359:MET:HE1	1.90	0.54
1:I4:128:LYS:CD	1:A8:99:MET:SD	2.92	0.54
1:I4:204:ALA:O	1:I4:207:ASN:HB2	2.08	0.54
1:Q4:359:MET:HE1	2:n8:24:THR:HG21	1.90	0.54
1:S4:14:VAL:CG2	1:IQ:14:VAL:HG23	2.35	0.54
1:S4:47:GLU:HG2	1:IQ:22:LEU:HB3	1.90	0.54
1:T4:14:VAL:HG13	1:AS:46:PHE:HE2	1.72	0.54
1:Y4:91:ILE:CD1	1:Y8:63:LEU:HD11	2.37	0.54
1:Z4:107:LEU:HD12	1:Z4:110:LYS:HD3	1.90	0.54
1:f4:63:LEU:HD11	1:ZG:91:ILE:CD1	2.37	0.54
1:g4:109:LEU:HD22	1:AD:108:MET:HE2	1.88	0.54
3:A5:149:GLN:NE2	1:AJ:149:THR:HG23	2.23	0.54
2:H6:2:TYR:HB3	1:Y8:150:ASN:CG	2.32	0.54
1:L6:8:ASN:HD21	1:L6:44:THR:HB	1.71	0.54
1:i6:57:LYS:CD	1:DJ:143:GLN:HE21	1.20	0.54
1:C7:204:ALA:O	1:C7:207:ASN:HB2	2.08	0.54
1:A7:99:MET:SD	1:gR:128:LYS:CD	2.92	0.54
1:I7:355:TYR:HB3	1:I7:379:TYR:HB3	1.88	0.54
1:Y7:74:TRP:CZ3	2:PR:32:ILE:CD1	2.89	0.54
1:Z7:60:GLU:HG3	1:Z7:62:LEU:HD21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z7:91:ILE:CD1	1:IR:63:LEU:HD11	2.37	0.54
1:B8:14:VAL:HG21	1:AE:14:VAL:HB	1.89	0.54
1:J8:110:LYS:HE2	1:Z8:105:GLU:OE1	2.06	0.54
1:Z8:110:LYS:HE2	1:bE:105:GLU:OE1	2.06	0.54
2:d8:1:MET:H2	1:BR:150:ASN:HD21	1.55	0.54
1:g8:204:ALA:O	1:g8:207:ASN:HB2	2.08	0.54
1:h8:60:GLU:HG3	1:h8:62:LEU:HD21	1.89	0.54
1:i8:16:LYS:O	1:DD:45:MET:HE2	1.87	0.54
4:BA:32:PHE:CE1	5:FH:51:ARG:CD	2.90	0.54
5:EB:140:ASP:HB2	5:CB:139:LYS:HD2	1.84	0.54
4:BC:4:TYR:H	5:EC:36:ALA:HB2	1.73	0.54
1:CD:14:VAL:HG23	1:YG:45:MET:HG2	1.89	0.54
1:CD:55:PHE:CB	1:YG:58:ILE:CD1	2.85	0.54
1:DD:80:ASP:O	1:KS:145:LEU:HD21	2.07	0.54
1:BE:304:GLN:HE21	1:CP:28:ASP:HB2	1.73	0.54
1:ME:14:VAL:HG21	1:QQ:14:VAL:HB	1.89	0.54
1:aE:71:ARG:HG3	2:HR:31:SER:HB3	1.90	0.54
1:aE:360:LEU:HD23	2:HR:22:LYS:HG2	1.88	0.54
1:bE:64:ILE:HD11	1:cE:88:GLU:HG3	1.89	0.54
1:cE:14:VAL:HG23	1:CG:14:VAL:CG2	2.36	0.54
1:CG:71:ARG:HG3	2:fL:31:SER:HB3	1.90	0.54
1:CG:204:ALA:O	1:CG:207:ASN:HB2	2.08	0.54
1:AG:91:ILE:CD1	1:YL:63:LEU:HD11	2.37	0.54
1:AG:105:GLU:OE1	1:RQ:110:LYS:HE2	2.06	0.54
1:IG:204:ALA:O	1:IG:207:ASN:HB2	2.08	0.54
1:aG:107:LEU:HD12	1:aG:110:LYS:HD3	1.90	0.54
1:aG:144:THR:CA	1:BK:82:ILE:HD11	1.83	0.54
1:gG:204:ALA:O	1:gG:207:ASN:HB2	2.08	0.54
4:BI:4:TYR:H	5:EI:36:ALA:HB2	1.73	0.54
4:BI:189:ASN:O	4:BO:150:ASP:N	2.34	0.54
2:FJ:10:MET:CB	1:LP:372:VAL:CG1	2.86	0.54
1:LJ:368:GLU:OE1	1:CS:130:LYS:HB2	2.07	0.54
1:AK:316:VAL:CG2	1:KP:32:SER:HB2	2.36	0.54
1:CK:315:ALA:CA	1:jR:30:SER:O	2.44	0.54
1:KK:98:ASN:HB3	1:KP:28:ASP:C	2.32	0.54
1:LK:145:LEU:HD12	2:FP:16:GLU:HA	1.89	0.54
1:CL:204:ALA:O	1:CL:207:ASN:HB2	2.08	0.54
1:IL:22:LEU:HB3	1:KQ:47:GLU:HG2	1.90	0.54
1:JL:99:MET:SD	1:YR:128:LYS:CD	2.92	0.54
1:SL:107:LEU:HD12	1:SL:110:LYS:HD3	1.90	0.54
1:YL:208:LEU:CD1	1:YL:391:ILE:HD12	1.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AM:150:TYR:HB2	3:AO:37:GLU:CD	2.32	0.54
3:AM:159:HIS:NE2	3:AO:23:HIS:CE1	2.75	0.54
1:CP:70:ASN:OD1	1:CP:354:ARG:NH2	2.41	0.54
1:AQ:60:GLU:HG3	1:AQ:62:LEU:HD21	1.89	0.54
1:IQ:208:LEU:HD12	1:IQ:391:ILE:HD11	1.89	0.54
1:IQ:355:TYR:HB3	1:IQ:379:TYR:HB3	1.88	0.54
1:JQ:104:ASN:ND2	1:JQ:106:GLU:OE2	2.40	0.54
1:RQ:62:LEU:HD13	1:RQ:62:LEU:N	2.21	0.54
1:RR:64:ILE:HD11	1:SR:88:GLU:HG3	1.89	0.54
1:BS:70:ASN:OD1	1:BS:354:ARG:NH2	2.41	0.54
1:KS:353:LYS:HB3	1:KS:381:PHE:HB3	1.88	0.54
1:C1:71:ARG:HG3	2:H6:31:SER:HB3	1.90	0.54
2:H1:31:SER:HB3	1:C6:71:ARG:HG3	1.90	0.54
1:I1:204:ALA:O	1:I1:207:ASN:HB2	2.08	0.54
1:J1:104:ASN:ND2	1:J1:106:GLU:OE2	2.40	0.54
1:X1:359:MET:HE1	2:P6:24:THR:HG21	1.90	0.54
1:f1:22:LEU:HB3	1:B3:47:GLU:HG2	1.90	0.54
1:g1:91:ILE:CD1	1:CQ:63:LEU:HD11	2.37	0.54
2:m1:31:SER:HB3	1:CQ:71:ARG:HG3	1.90	0.54
1:C3:355:TYR:HB3	1:C3:379:TYR:HB3	1.88	0.54
1:I3:359:MET:HE1	2:X8:24:THR:HG21	1.90	0.54
1:K3:14:VAL:HG23	1:I4:14:VAL:CG2	2.36	0.54
2:P3:53:PHE:O	1:Q8:62:LEU:HD11	2.03	0.54
1:C4:150:ASN:CG	2:fL:2:TYR:HB3	2.32	0.54
1:C4:204:ALA:O	1:C4:207:ASN:HB2	2.08	0.54
1:A4:60:GLU:HG3	1:A4:62:LEU:HD21	1.89	0.54
1:A4:115:ARG:HH22	1:QG:300:TYR:CA	2.16	0.54
1:I4:63:LEU:HD11	1:A8:91:ILE:CD1	2.37	0.54
1:Q4:71:ARG:HG3	2:n8:31:SER:HB3	1.90	0.54
1:Q4:300:TYR:CA	1:h8:115:ARG:HH22	2.16	0.54
1:R4:118:THR:HG23	1:BS:53:TYR:HB3	1.88	0.54
1:i4:14:VAL:HG13	1:BD:46:PHE:HE2	1.72	0.54
2:l4:1:MET:HB3	1:DK:150:ASN:HD21	1.72	0.54
2:l4:32:ILE:CD1	1:YG:74:TRP:CZ3	2.89	0.54
4:B5:196:SER:HA	4:BI:143:ASN:HA	1.87	0.54
1:Q6:30:SER:CA	1:LJ:315:ALA:CB	2.85	0.54
1:Y6:71:ARG:HG3	2:RE:31:SER:HB3	1.90	0.54
1:Y6:204:ALA:O	1:Y6:207:ASN:HB2	2.08	0.54
2:n6:31:SER:HB3	1:AE:71:ARG:HG3	1.90	0.54
1:C7:359:MET:HE1	2:mR:24:THR:HG21	1.90	0.54
1:C7:371:GLU:OE1	1:hR:111:ARG:CD	2.44	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:85:TYR:OH	1:gR:46:PHE:HD1	1.87	0.54
1:B7:145:LEU:HD22	2:EP:15:TYR:O	2.08	0.54
1:D7:105:GLU:C	1:CP:109:LEU:HD13	2.30	0.54
1:Y7:24:ASP:HB3	1:QQ:125:ILE:HG22	1.89	0.54
1:j7:179:SER:HG	1:j7:341:TYR:HH	1.55	0.54
1:I8:139:ARG:HD2	1:IR:81:PHE:HE2	1.63	0.54
1:I8:204:ALA:O	1:I8:207:ASN:HB2	2.08	0.54
1:J8:60:GLU:HG3	1:J8:62:LEU:HD21	1.89	0.54
1:Y8:125:ILE:HG22	1:bQ:24:ASP:HB3	1.89	0.54
5:EB:64:TRP:CD1	4:BM:30:LEU:HB2	2.41	0.54
5:EC:140:ASP:CB	5:CC:139:LYS:HB3	2.01	0.54
1:CD:70:ASN:OD1	1:CD:354:ARG:NH2	2.41	0.54
1:DD:130:LYS:HB2	1:KS:368:GLU:OE1	2.07	0.54
1:AE:204:ALA:O	1:AE:207:ASN:HB2	2.08	0.54
1:FE:14:VAL:HG13	1:BP:46:PHE:HE2	1.72	0.54
1:KE:125:ILE:HG22	1:QQ:24:ASP:HB3	1.89	0.54
1:LE:60:GLU:HG3	1:LE:62:LEU:HD21	1.89	0.54
1:TE:60:GLU:HG3	1:TE:62:LEU:HD21	1.89	0.54
1:TE:91:ILE:CD1	1:IQ:63:LEU:HD11	2.37	0.54
1:CG:371:GLU:OE1	1:ZL:111:ARG:CD	2.44	0.54
1:YG:118:THR:CB	1:DK:53:TYR:O	2.56	0.54
1:YG:316:VAL:HA	1:DK:31:LYS:NZ	2.22	0.54
1:hG:64:ILE:HD11	1:iG:88:GLU:HG3	1.89	0.54
1:DJ:130:LYS:HB2	1:LP:368:GLU:OE1	2.07	0.54
2:FJ:16:GLU:O	1:LP:145:LEU:HD12	2.08	0.54
1:KJ:53:TYR:CE2	1:AP:223:GLY:CA	2.90	0.54
1:KJ:282:VAL:HB	1:KJ:313:VAL:HA	1.89	0.54
1:BK:68:LEU:HB2	1:BK:161:SER:HB2	1.88	0.54
1:KK:99:MET:CE	1:KP:369:PHE:O	2.56	0.54
1:CL:355:TYR:HB3	1:CL:379:TYR:HB3	1.88	0.54
1:JL:91:ILE:CD1	1:YR:63:LEU:HD11	2.37	0.54
1:KL:107:LEU:HD12	1:KL:110:LYS:HD3	1.90	0.54
2:PL:24:THR:HG21	1:YR:359:MET:HE1	1.90	0.54
1:QL:204:ALA:O	1:QL:207:ASN:HB2	2.08	0.54
2:XL:2:TYR:HB3	1:YL:150:ASN:CG	2.32	0.54
5:NM:233:GLU:H	5:CO:265:LEU:HD23	1.72	0.54
1:BP:34:THR:HG22	1:BP:36:GLY:H	1.72	0.54
1:CP:356:THR:OG1	1:CP:359:MET:SD	2.65	0.54
1:DP:150:ASN:OD1	2:mR:2:TYR:CB	2.52	0.54
1:AQ:104:ASN:ND2	1:AQ:106:GLU:OE2	2.40	0.54
1:SQ:150:ASN:HD21	2:NR:1:MET:H2	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bQ:204:ALA:O	1:bQ:207:ASN:HB2	2.08	0.54
1:ZR:60:GLU:HG3	1:ZR:62:LEU:HD21	1.89	0.54
1:gR:208:LEU:HD11	1:gR:391:ILE:HD13	1.46	0.54
2:LS:31:SER:HB3	2:MS:45:ILE:HG13	1.88	0.54
1:B1:107:LEU:HD12	1:B1:110:LYS:HD3	1.90	0.54
1:D1:79:GLN:OE1	1:a4:59:ASN:ND2	2.39	0.54
1:I1:22:LEU:HB3	1:UE:47:GLU:HG2	1.90	0.54
1:J1:91:ILE:CD1	1:IG:63:LEU:HD11	2.37	0.54
1:Q1:204:ALA:O	1:Q1:207:ASN:HB2	2.08	0.54
1:g1:64:ILE:HD11	1:h1:88:GLU:HG3	1.89	0.54
1:h1:107:LEU:HD12	1:h1:110:LYS:HD3	1.90	0.54
3:A2:33:ASN:ND2	1:AK:58:ILE:HD12	0.87	0.54
4:B2:251:TRP:NE1	3:AF:208:LYS:HB3	2.19	0.54
1:C3:14:VAL:HG23	1:SG:14:VAL:CG2	2.35	0.54
1:J3:210:ASN:HD21	1:Q8:71:ARG:HH22	1.43	0.54
2:P3:24:THR:HG21	1:Q8:359:MET:HE1	1.90	0.54
1:Q3:14:VAL:CG2	1:Z4:14:VAL:HG23	2.36	0.54
1:R3:115:ARG:HH22	1:I8:300:TYR:CA	2.16	0.54
2:H4:31:SER:HB3	1:QG:71:ARG:HG3	1.90	0.54
1:J4:104:ASN:ND2	1:J4:106:GLU:OE2	2.40	0.54
1:R4:91:ILE:CD1	1:g8:63:LEU:HD11	2.37	0.54
1:R4:104:ASN:O	1:DD:369:PHE:HZ	1.90	0.54
1:S4:98:ASN:HB3	1:BS:28:ASP:C	2.27	0.54
1:X4:74:TRP:CZ3	2:f8:32:ILE:CD1	2.89	0.54
1:Z4:150:ASN:HD21	2:N8:1:MET:H3	1.56	0.54
1:f4:125:ILE:HG22	1:gG:24:ASP:HB3	1.89	0.54
1:B6:107:LEU:HD12	1:B6:110:LYS:HD3	1.90	0.54
1:D6:79:GLN:OE1	1:bG:59:ASN:ND2	2.39	0.54
1:I6:81:PHE:HD2	1:CL:139:ARG:HD3	1.64	0.54
1:J6:60:GLU:HG3	1:J6:62:LEU:HD21	1.89	0.54
1:Q6:118:THR:CB	1:CS:53:TYR:O	2.56	0.54
1:R6:60:GLU:HG3	1:R6:62:LEU:HD21	1.89	0.54
1:S6:368:GLU:OE2	1:BS:107:LEU:HD22	2.04	0.54
2:P7:31:SER:HB3	1:bQ:71:ARG:HG3	1.90	0.54
1:i7:47:GLU:HG2	1:C8:22:LEU:HB3	1.90	0.54
1:C8:204:ALA:O	1:C8:207:ASN:HB2	2.08	0.54
1:A8:104:ASN:ND2	1:A8:106:GLU:OE2	2.40	0.54
1:S8:14:VAL:HG23	1:IG:14:VAL:CG2	2.36	0.54
1:g8:25:PHE:C	1:IS:100:ASP:HA	2.32	0.54
4:BA:4:TYR:H	5:EA:36:ALA:HB2	1.73	0.54
3:AC:114:PHE:HA	2:MP:51:GLN:HE21	1.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:170:GLU:OE2	1:KK:32:SER:C	2.51	0.54
2:FD:16:GLU:HA	1:KS:145:LEU:HD12	1.89	0.54
2:FD:16:GLU:O	1:KS:145:LEU:HD12	2.08	0.54
1:KD:369:PHE:HZ	1:JS:104:ASN:O	1.78	0.54
1:LD:139:ARG:NH1	1:DK:355:TYR:OH	2.40	0.54
2:RE:2:TYR:HB3	1:SE:150:ASN:CG	2.32	0.54
1:bE:91:ILE:CD1	1:CR:63:LEU:HD11	2.37	0.54
2:EG:45:ILE:HG13	2:EG:46:HIS:H	1.66	0.54
1:SG:107:LEU:HD12	1:SG:110:LYS:HD3	1.90	0.54
1:aG:145:LEU:HD22	2:EK:15:TYR:O	2.08	0.54
1:hG:368:GLU:OE1	1:jG:375:TRP:NE1	2.35	0.54
5:EI:64:TRP:CD1	4:BN:30:LEU:HB2	2.41	0.54
1:KJ:32:SER:C	1:AP:170:GLU:OE2	2.51	0.54
1:KJ:108:MET:SD	1:JS:364:PHE:HE2	2.27	0.54
1:LJ:28:ASP:O	1:AS:98:ASN:N	2.41	0.54
1:LJ:57:LYS:HD2	1:JS:143:GLN:OE1	1.85	0.54
1:LJ:162:ASP:HA	1:LJ:165:VAL:HG12	1.88	0.54
1:AK:315:ALA:HA	1:KP:30:SER:CA	2.37	0.54
1:LK:128:LYS:NZ	1:LK:303:TYR:OH	2.35	0.54
2:PL:31:SER:HB3	1:YR:71:ARG:HG3	1.90	0.54
1:QL:131:PHE:HB3	1:QL:159:LYS:HE2	1.88	0.54
3:AN:292:SER:OG	3:AN:297:LEU:O	2.26	0.54
4:BO:4:TYR:H	5:EO:36:ALA:HB2	1.73	0.54
1:BP:281:LYS:HB2	1:BP:334:ILE:HD11	1.90	0.54
1:IQ:204:ALA:O	1:IQ:207:ASN:HB2	2.08	0.54
1:IR:131:PHE:HB3	1:IR:159:LYS:HE2	1.88	0.54
1:RR:60:GLU:HG3	1:RR:62:LEU:HD21	1.89	0.54
1:ZR:104:ASN:ND2	1:ZR:106:GLU:OE2	2.40	0.54
1:hR:104:ASN:ND2	1:hR:106:GLU:OE2	2.40	0.54
1:AS:34:THR:HG22	1:AS:36:GLY:H	1.72	0.54
1:AS:281:LYS:HB2	1:AS:334:ILE:HD11	1.90	0.54
1:BS:208:LEU:HD22	1:BS:389:ASN:HB3	1.88	0.54
1:C1:24:ASP:HB3	1:bQ:125:ILE:HG22	1.89	0.54
1:C1:204:ALA:O	1:C1:207:ASN:HB2	2.08	0.54
1:I1:259:PHE:HE1	1:JG:259:PHE:HE1	1.48	0.54
1:R1:34:THR:HG21	1:T1:122:GLY:H	1.73	0.54
1:R1:304:GLN:HE21	1:CJ:28:ASP:HB2	1.73	0.54
1:S1:47:GLU:HG2	1:Q8:22:LEU:HB3	1.90	0.54
1:S1:108:MET:CG	1:CJ:366:ASN:OD1	2.32	0.54
1:T1:153:LEU:HD21	2:HJ:4:GLY:CA	2.31	0.54
1:X1:22:LEU:HB3	1:K8:47:GLU:HG2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X1:125:ILE:HG22	1:IR:24:ASP:HB3	1.89	0.54
3:A2:37:GLU:CD	3:A9:150:TYR:HB2	2.32	0.54
3:A2:202:ASN:HD21	5:DC:38:TYR:C	2.15	0.54
1:C3:71:ARG:HG3	2:n7:31:SER:HB3	1.90	0.54
1:C3:204:ALA:O	1:C3:207:ASN:HB2	2.08	0.54
2:H3:31:SER:HB3	1:g7:71:ARG:HG3	1.90	0.54
1:I3:22:LEU:HB3	1:SL:47:GLU:HG2	1.90	0.54
1:Q3:125:ILE:HG22	1:CR:24:ASP:HB3	1.89	0.54
1:Q3:204:ALA:O	1:Q3:207:ASN:HB2	2.08	0.54
1:Y3:82:ILE:HG23	1:BK:142:PHE:O	2.08	0.54
1:Y3:109:LEU:HB3	1:LK:105:GLU:O	2.08	0.54
1:C4:14:VAL:HB	1:BG:14:VAL:HG21	1.89	0.54
1:C4:98:ASN:HD22	1:C4:99:MET:H	1.56	0.54
1:A4:104:ASN:ND2	1:A4:106:GLU:OE2	2.40	0.54
1:J4:62:LEU:HD13	1:J4:62:LEU:N	2.21	0.54
1:J4:111:ARG:HD3	1:C8:371:GLU:CD	2.32	0.54
1:J4:259:PHE:HE1	1:C8:259:PHE:HE1	1.48	0.54
1:K4:47:GLU:HG2	1:QL:22:LEU:HB3	1.90	0.54
2:P4:24:THR:HG21	1:C8:359:MET:HE1	1.90	0.54
1:Q4:63:LEU:HD11	1:h8:91:ILE:CD1	2.37	0.54
1:R4:34:THR:HG21	1:T4:122:GLY:H	1.73	0.54
1:R4:60:GLU:HG3	1:R4:62:LEU:HD21	1.89	0.54
1:S4:107:LEU:HD12	1:S4:110:LYS:HD3	1.90	0.54
1:T4:368:GLU:OE2	1:BS:128:LYS:NZ	2.35	0.54
5:E5:37:ASP:CB	3:AH:197:VAL:CG2	2.74	0.54
1:C6:24:ASP:HB3	1:gG:125:ILE:HG22	1.89	0.54
1:C6:204:ALA:O	1:C6:207:ASN:HB2	2.08	0.54
1:I6:204:ALA:O	1:I6:207:ASN:HB2	2.08	0.54
1:J6:104:ASN:ND2	1:J6:106:GLU:OE2	2.40	0.54
2:n6:2:TYR:HB3	1:g7:150:ASN:CG	2.32	0.54
1:I7:81:PHE:HE2	1:CQ:139:ARG:HD2	1.63	0.54
1:h7:60:GLU:HG3	1:h7:62:LEU:HD21	1.89	0.54
1:R8:34:THR:HG21	1:T8:122:GLY:H	1.73	0.54
1:g8:98:ASN:HD22	1:g8:99:MET:H	1.56	0.54
1:g8:118:THR:CB	1:DD:53:TYR:O	2.56	0.54
1:h8:104:ASN:ND2	1:h8:106:GLU:OE2	2.40	0.54
5:DA:38:TYR:C	3:AB:202:ASN:HD21	2.16	0.54
1:AD:316:VAL:CG2	1:KK:32:SER:HB2	2.36	0.54
1:KD:21:ALA:C	1:KS:47:GLU:OE1	2.44	0.54
1:LD:145:LEU:HD12	2:FK:16:GLU:O	2.08	0.54
1:LD:312:PRO:CG	1:YG:27:HIS:HB2	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:372:VAL:CG1	2:FK:10:MET:CB	2.86	0.54
1:aE:300:TYR:CA	1:AR:115:ARG:HH22	2.16	0.54
5:EF:64:TRP:CD1	4:BO:30:LEU:HB2	2.41	0.54
5:FF:46:TYR:CG	5:FM:31:PHE:CE2	2.74	0.54
1:CG:74:TRP:CZ3	2:fL:32:ILE:CD1	2.89	0.54
1:AG:111:ARG:HD3	1:YL:371:GLU:CD	2.31	0.54
1:JG:104:ASN:ND2	1:JG:106:GLU:OE2	2.40	0.54
1:RG:34:THR:HG21	1:TG:122:GLY:H	1.73	0.54
1:RG:60:GLU:HG3	1:RG:62:LEU:HD21	1.89	0.54
1:gG:71:ARG:HG3	2:HL:31:SER:HB3	1.90	0.54
1:CJ:70:ASN:OD1	1:CJ:354:ARG:NH2	2.41	0.54
1:KJ:369:PHE:O	1:KP:99:MET:CE	2.56	0.54
1:AK:118:THR:HG21	1:KP:53:TYR:C	2.31	0.54
1:BK:175:LEU:HD11	1:BK:241:LEU:HD21	1.90	0.54
1:BK:179:SER:HB3	1:BK:392:LEU:HD12	1.90	0.54
1:BK:326:GLU:HG3	1:BK:326:GLU:O	2.08	0.54
1:CK:53:TYR:HB3	1:hR:118:THR:HG23	1.89	0.54
1:LK:44:THR:C	1:KP:14:VAL:O	2.51	0.54
1:BL:107:LEU:HD12	1:BL:110:LYS:HD3	1.90	0.54
1:JL:64:ILE:HD11	1:KL:88:GLU:HG3	1.89	0.54
1:RL:34:THR:HG21	1:TL:122:GLY:H	1.73	0.54
1:YL:22:LEU:HB3	1:SR:47:GLU:HG2	1.90	0.54
3:AN:104:GLN:CD	2:MP:8:ARG:C	2.74	0.54
1:YQ:394:THR:HG23	1:YQ:396:GLN:H	1.71	0.54
1:YR:204:ALA:O	1:YR:207:ASN:HB2	2.08	0.54
1:gR:204:ALA:O	1:gR:207:ASN:HB2	2.08	0.54
1:AS:175:LEU:HD11	1:AS:241:LEU:HD21	1.89	0.54
1:JS:68:LEU:HB2	1:JS:161:SER:HB3	1.88	0.54
1:JS:282:VAL:HB	1:JS:313:VAL:HA	1.89	0.54
1:C1:125:ILE:HG22	1:Y8:24:ASP:HB3	1.89	0.54
1:I1:71:ARG:HG3	2:PG:31:SER:HB3	1.90	0.54
1:I1:359:MET:HE1	2:PG:24:THR:HG21	1.90	0.54
1:Q1:22:LEU:HB3	1:KG:47:GLU:HG2	1.90	0.54
1:Q1:321:VAL:CG2	1:Q1:327:PHE:CE2	2.91	0.54
1:R1:222:SER:HA	1:CJ:38:LYS:CB	2.30	0.54
2:W1:2:TYR:N	1:CS:150:ASN:OD1	2.40	0.54
2:W1:54:THR:HG21	2:NJ:1:MET:CE	2.25	0.54
1:f1:204:ALA:O	1:f1:207:ASN:HB2	2.08	0.54
1:A3:210:ASN:HD21	1:g7:71:ARG:HH22	1.43	0.54
1:B3:107:LEU:HD12	1:B3:110:LYS:HD3	1.90	0.54
1:J3:34:THR:HG21	1:L3:122:GLY:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S3:47:GLU:HG2	1:CR:22:LEU:HB3	1.90	0.54
1:C4:71:ARG:HG3	2:XG:31:SER:HB3	1.90	0.54
1:B4:107:LEU:HD12	1:B4:110:LYS:HD3	1.90	0.54
1:J4:34:THR:HG21	1:L4:122:GLY:H	1.73	0.54
1:J4:91:ILE:CD1	1:C8:63:LEU:HD11	2.37	0.54
1:R4:222:SER:HA	1:BS:38:LYS:CB	2.30	0.54
2:W4:31:SER:HB3	1:g8:71:ARG:HG3	1.90	0.54
1:X4:128:LYS:CD	1:Z8:99:MET:SD	2.92	0.54
1:Y4:34:THR:HG21	1:a4:122:GLY:H	1.73	0.54
1:f4:204:ALA:O	1:f4:207:ASN:HB2	2.08	0.54
1:i4:30:SER:C	1:CD:315:ALA:CB	2.80	0.54
1:K6:14:VAL:HG21	1:CL:14:VAL:HB	1.89	0.54
1:Q6:302:ASP:CG	1:CS:29:TYR:HH	1.95	0.54
2:f6:31:SER:HB3	1:KE:71:ARG:HG3	1.90	0.54
1:g6:61:THR:OG1	1:CP:57:LYS:HE3	2.07	0.54
1:g6:359:MET:HE1	2:JE:24:THR:HG21	1.90	0.54
1:C7:27:HIS:HB2	1:LK:312:PRO:CG	2.36	0.54
1:K7:107:LEU:HD12	1:K7:110:LYS:HD3	1.90	0.54
1:Q7:125:ILE:HG22	1:QR:24:ASP:HB3	1.89	0.54
1:g7:81:PHE:HD2	1:C8:139:ARG:HD3	1.64	0.54
1:B8:47:GLU:HG2	1:AE:22:LEU:HB3	1.90	0.54
1:Z8:60:GLU:HG3	1:Z8:62:LEU:HD21	1.89	0.54
1:i8:57:LYS:HE2	1:DD:143:GLN:OE1	2.08	0.54
3:A9:209:MET:CG	4:BC:250:ILE:CD1	2.84	0.54
4:B9:202:GLN:HB3	4:BA:137:ASN:HA	1.90	0.54
5:E9:64:TRP:CD1	4:BB:30:LEU:HB2	2.41	0.54
3:AA:202:ASN:HD21	5:DN:38:TYR:C	2.15	0.54
3:AC:37:GLU:CD	3:AH:150:TYR:HB2	2.32	0.54
3:AC:194:ASN:OD1	5:EN:36:ALA:O	2.22	0.54
1:AD:81:PHE:CB	1:KK:139:ARG:HH11	2.20	0.54
1:AD:223:GLY:CA	1:KK:53:TYR:CE2	2.90	0.54
1:BD:281:LYS:HB2	1:BD:334:ILE:HD11	1.90	0.54
1:CD:356:THR:OG1	1:CD:359:MET:SD	2.65	0.54
1:DD:116:MET:HE1	1:KS:54:LEU:HD13	1.89	0.54
1:KD:99:MET:CE	1:KK:369:PHE:O	2.56	0.54
1:DE:82:ILE:HG23	1:BP:142:PHE:O	2.08	0.54
1:SE:71:ARG:HG3	2:PQ:31:SER:HB3	1.90	0.54
2:ZE:31:SER:HB3	1:IQ:71:ARG:HG3	1.90	0.54
1:aE:321:VAL:CG2	1:aE:327:PHE:CE2	2.91	0.54
1:DG:394:THR:HG23	1:DG:396:GLN:H	1.71	0.54
2:HG:31:SER:HB3	1:YL:71:ARG:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JG:34:THR:HG21	1:LG:122:GLY:H	1.73	0.54
1:ZG:34:THR:HG21	1:bG:122:GLY:H	1.73	0.54
1:gG:321:VAL:CG2	1:gG:327:PHE:CE2	2.91	0.54
1:hG:34:THR:HG21	1:jG:122:GLY:H	1.73	0.54
3:AH:151:ASN:CA	1:AP:135:ASN:OD1	2.55	0.54
3:AI:37:GLU:CD	3:AO:150:TYR:HB2	2.32	0.54
3:AI:104:GLN:NE2	2:MJ:19:ARG:HG2	2.23	0.54
1:BJ:99:MET:O	1:LP:25:PHE:HD1	1.85	0.54
1:KJ:53:TYR:C	1:AP:118:THR:HG21	2.31	0.54
1:LJ:21:ALA:CB	1:CS:123:ASN:HD22	2.04	0.54
1:LJ:216:ASN:ND2	1:LJ:229:TYR:O	2.40	0.54
1:LK:26:ASN:OD1	1:BP:100:ASP:OD1	2.21	0.54
1:QL:71:ARG:HG3	2:XR:31:SER:HB3	1.90	0.54
1:YL:204:ALA:O	1:YL:207:ASN:HB2	2.08	0.54
1:CQ:167:GLU:OE2	1:CQ:352:TYR:OH	2.26	0.54
1:CQ:204:ALA:O	1:CQ:207:ASN:HB2	2.08	0.54
1:QQ:204:ALA:O	1:QQ:207:ASN:HB2	2.08	0.54
2:ZQ:45:ILE:HG13	2:ZQ:46:HIS:H	1.66	0.54
1:bQ:321:VAL:CG2	1:bQ:327:PHE:CE2	2.91	0.54
1:cQ:34:THR:HG21	1:eQ:122:GLY:H	1.73	0.54
1:CR:321:VAL:CG2	1:CR:327:PHE:CE2	2.91	0.54
1:YR:167:GLU:OE2	1:YR:352:TYR:OH	2.26	0.54
1:hR:60:GLU:HG3	1:hR:62:LEU:HD21	1.89	0.54
1:A1:14:VAL:O	1:a4:44:THR:OG1	2.26	0.54
1:A1:60:GLU:HG3	1:A1:62:LEU:HD21	1.89	0.54
1:I1:371:GLU:CD	1:JG:111:ARG:HD3	2.32	0.54
1:K1:47:GLU:HG2	1:Y6:22:LEU:HB3	1.90	0.54
1:Q1:71:ARG:HG3	2:X6:31:SER:HB3	1.90	0.54
1:R1:99:MET:SD	1:Q6:128:LYS:CD	2.92	0.54
2:U1:3:GLU:O	1:CJ:153:LEU:HD11	2.07	0.54
1:X1:74:TRP:CZ3	2:P6:32:ILE:CD1	2.89	0.54
2:e1:24:THR:HG21	1:I6:359:MET:HE1	1.90	0.54
3:A2:292:SER:OG	3:A2:297:LEU:O	2.26	0.54
1:I3:204:ALA:O	1:I3:207:ASN:HB2	2.08	0.54
1:J3:64:ILE:HD11	1:K3:88:GLU:HG3	1.89	0.54
1:Q3:321:VAL:CG2	1:Q3:327:PHE:CE2	2.91	0.54
2:X3:31:SER:HB3	1:I8:71:ARG:HG3	1.90	0.54
2:d3:15:TYR:OH	1:BD:138:THR:CG2	2.56	0.54
1:C4:321:VAL:CG2	1:C4:327:PHE:CE2	2.91	0.54
1:A4:91:ILE:CD1	1:QG:63:LEU:HD11	2.37	0.54
1:L4:394:THR:HG23	1:L4:396:GLN:H	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P4:31:SER:HB3	1:C8:71:ARG:HG3	1.90	0.54
1:R4:304:GLN:HE21	1:BS:28:ASP:HB2	1.73	0.54
2:U4:11:MET:HB2	1:BS:372:VAL:CG1	2.28	0.54
1:X4:150:ASN:CG	2:hE:2:TYR:HB3	2.32	0.54
1:f4:24:ASP:HB3	1:C6:125:ILE:HG22	1.89	0.54
1:g4:60:GLU:HG3	1:g4:62:LEU:HD21	1.89	0.54
1:g4:222:SER:HA	1:CD:38:LYS:CB	2.30	0.54
1:i4:139:ARG:HB2	1:CD:81:PHE:CZ	2.43	0.54
2:j4:16:GLU:HG2	1:CD:149:THR:HG21	1.89	0.54
1:A6:14:VAL:O	1:bG:44:THR:OG1	2.26	0.54
1:A6:60:GLU:HG3	1:A6:62:LEU:HD21	1.89	0.54
1:K6:47:GLU:HG2	1:CL:22:LEU:HB3	1.90	0.54
1:Q6:27:HIS:CA	1:AJ:100:ASP:OD2	2.52	0.54
1:R6:14:VAL:O	1:YQ:44:THR:OG1	2.26	0.54
1:S6:145:LEU:HD22	2:DS:15:TYR:O	2.08	0.54
1:Y6:98:ASN:HD22	1:Y6:99:MET:H	1.56	0.54
1:Y6:371:GLU:OE1	1:LE:111:ARG:CD	2.44	0.54
1:a6:14:VAL:HG21	1:SE:14:VAL:HB	1.89	0.54
2:f6:24:THR:HG21	1:KE:359:MET:HE1	1.90	0.54
1:g6:71:ARG:HG3	2:JE:31:SER:HB3	1.90	0.54
1:h6:111:ARG:CD	1:AE:371:GLU:OE1	2.44	0.54
1:C7:300:TYR:CA	1:hR:115:ARG:HH22	2.16	0.54
2:H7:24:THR:HG21	1:gR:359:MET:HE1	1.90	0.54
1:I7:22:LEU:HB3	1:iR:47:GLU:HG2	1.90	0.54
1:S7:14:VAL:HG21	1:QR:14:VAL:HB	1.89	0.54
1:Y7:321:VAL:CG2	1:Y7:327:PHE:CE2	2.91	0.54
1:Z7:64:ILE:HD11	1:a7:88:GLU:HG3	1.89	0.54
1:a7:14:VAL:HG21	1:KE:14:VAL:HB	1.89	0.54
1:g7:14:VAL:HB	1:CE:14:VAL:HG21	1.89	0.54
1:g7:321:VAL:CG2	1:g7:327:PHE:CE2	2.91	0.54
1:I8:45:MET:CE	1:KR:13:LEU:CD1	2.86	0.54
1:I8:321:VAL:CG2	1:I8:327:PHE:CE2	2.91	0.54
1:Y8:204:ALA:O	1:Y8:207:ASN:HB2	2.08	0.54
1:i8:107:LEU:HD12	1:i8:110:LYS:HD3	1.90	0.54
3:A9:242:ILE:HG22	3:AA:270:ASN:HD22	1.73	0.54
4:BC:30:LEU:HB2	5:EN:64:TRP:CD1	2.41	0.54
1:BD:179:SER:HB3	1:BD:392:LEU:HD12	1.90	0.54
1:DD:350:ILE:O	2:GD:50:LYS:NZ	2.39	0.54
1:KD:261:ILE:HG22	1:KD:265:ASP:CG	2.29	0.54
1:AE:98:ASN:HD22	1:AE:99:MET:H	1.56	0.54
1:SE:321:VAL:CG2	1:SE:327:PHE:CE2	2.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hE:31:SER:HB3	1:CR:71:ARG:HG3	1.90	0.54
3:AF:270:ASN:HD22	3:AM:242:ILE:HG22	1.73	0.54
1:AG:14:VAL:O	1:TG:44:THR:OG1	2.26	0.54
1:DG:44:THR:OG1	1:RR:14:VAL:O	2.26	0.54
1:LG:394:THR:HG23	1:LG:396:GLN:H	1.71	0.54
5:DH:9:LYS:HE3	5:DH:66:TYR:HD1	1.73	0.54
1:BJ:281:LYS:HB2	1:BJ:334:ILE:HD11	1.90	0.54
1:BK:197:LEU:HA	1:BK:200:LYS:HB2	1.90	0.54
1:CK:54:LEU:CD2	1:hR:116:MET:SD	2.96	0.54
1:CK:315:ALA:HB1	1:jR:29:TYR:C	2.23	0.54
1:LK:107:LEU:CD1	1:jR:368:GLU:HG2	2.38	0.54
1:CL:81:PHE:HE2	1:YR:139:ARG:HD2	1.63	0.54
1:AL:104:ASN:ND2	1:AL:106:GLU:OE2	2.40	0.54
1:IL:63:LEU:HD11	1:ZR:91:ILE:CD1	2.37	0.54
1:IL:204:ALA:O	1:IL:207:ASN:HB2	2.08	0.54
1:QL:321:VAL:CG2	1:QL:327:PHE:CE2	2.91	0.54
3:AM:270:ASN:HD22	3:AO:242:ILE:HG22	1.73	0.54
3:AN:202:ASN:HD21	5:DO:38:TYR:C	2.15	0.54
1:DP:150:ASN:OD1	2:mR:2:TYR:N	2.40	0.54
1:KQ:107:LEU:HD12	1:KQ:110:LYS:HD3	1.90	0.54
1:QQ:98:ASN:HD22	1:QQ:99:MET:H	1.56	0.54
1:YQ:109:LEU:HB3	1:KS:105:GLU:O	2.08	0.54
2:fQ:44:GLN:OE1	2:fQ:44:GLN:HA	2.02	0.54
1:JR:104:ASN:ND2	1:JR:106:GLU:OE2	2.40	0.54
1:I1:63:LEU:HD11	1:JG:91:ILE:CD1	2.37	0.53
1:I1:355:TYR:HB3	1:I1:379:TYR:HB3	1.88	0.53
1:R1:118:THR:HG23	1:CJ:53:TYR:CB	2.38	0.53
1:X1:98:ASN:HD22	1:X1:99:MET:H	1.56	0.53
1:X1:321:VAL:CG2	1:X1:327:PHE:CE2	2.91	0.53
1:Z1:47:GLU:HG2	1:IR:22:LEU:HB3	1.90	0.53
1:f1:63:LEU:HD11	1:AQ:91:ILE:CD1	2.37	0.53
1:f1:71:ARG:HG3	2:HQ:31:SER:HB3	1.90	0.53
1:f1:359:MET:HE1	2:HQ:24:THR:HG21	1.90	0.53
1:C3:24:ASP:HB3	1:QG:125:ILE:HG22	1.89	0.53
1:Q3:14:VAL:HG23	1:Z4:14:VAL:CG2	2.35	0.53
1:Y3:44:THR:OG1	1:ZG:14:VAL:O	2.26	0.53
1:b3:44:THR:OG1	1:h8:14:VAL:O	2.26	0.53
1:A4:14:VAL:O	1:DR:44:THR:OG1	2.26	0.53
1:Q4:70:ASN:HD22	2:n8:25:GLU:HG3	1.74	0.53
1:Q4:125:ILE:HG22	1:IQ:24:ASP:HB3	1.89	0.53
1:Q4:204:ALA:O	1:Q4:207:ASN:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y4:14:VAL:O	1:L8:44:THR:OG1	2.26	0.53
1:g4:91:ILE:CD1	1:YG:63:LEU:HD11	2.37	0.53
1:h4:98:ASN:OD1	1:CD:24:ASP:O	2.26	0.53
3:A5:228:ILE:HD12	3:AI:233:GLU:OE1	2.01	0.53
3:A5:292:SER:OG	3:A5:297:LEU:O	2.26	0.53
5:D5:38:TYR:C	3:AC:202:ASN:HD21	2.15	0.53
1:I6:22:LEU:HB3	1:aR:47:GLU:HG2	1.90	0.53
1:I6:321:VAL:CG2	1:I6:327:PHE:CE2	2.91	0.53
1:Q6:80:ASP:OD2	1:CS:145:LEU:CD2	2.44	0.53
1:g6:118:THR:CB	1:DJ:53:TYR:O	2.56	0.53
1:i6:368:GLU:CD	1:CJ:107:LEU:HD22	2.32	0.53
1:C7:81:PHE:HD2	1:DP:139:ARG:HD3	1.46	0.53
1:C7:321:VAL:CG2	1:C7:327:PHE:CE2	2.91	0.53
2:H7:2:TYR:HB3	1:I7:150:ASN:CG	2.32	0.53
1:I7:14:VAL:HB	1:iR:14:VAL:HG21	1.89	0.53
1:I7:321:VAL:CG2	1:I7:327:PHE:CE2	2.91	0.53
1:R7:111:ARG:HD3	1:QQ:371:GLU:CD	2.31	0.53
1:Y7:62:LEU:HD11	2:PR:52:SER:O	2.09	0.53
1:Y7:222:SER:CA	1:KE:38:LYS:HD3	2.35	0.53
2:f7:25:GLU:HG3	1:IR:70:ASN:HD22	1.74	0.53
1:C8:355:TYR:HB3	1:C8:379:TYR:HB3	1.88	0.53
1:I8:22:LEU:HB3	1:KR:47:GLU:HG2	1.90	0.53
1:I8:98:ASN:HD22	1:I8:99:MET:H	1.56	0.53
1:Q8:204:ALA:O	1:Q8:207:ASN:HB2	2.08	0.53
1:S8:107:LEU:HD12	1:S8:110:LYS:HD3	1.90	0.53
1:g8:321:VAL:CG2	1:g8:327:PHE:CE2	2.91	0.53
3:A9:36:LEU:CD2	1:AK:135:ASN:OD1	2.57	0.53
3:A9:169:LEU:HD21	3:AB:203:GLY:HA3	1.91	0.53
4:BB:139:ASP:N	4:BB:139:ASP:OD1	2.40	0.53
5:DB:9:LYS:HE3	5:DB:66:TYR:HD1	1.73	0.53
3:AC:203:GLY:HA3	3:AN:169:LEU:HD21	1.91	0.53
1:AD:100:ASP:HA	1:YG:25:PHE:C	2.32	0.53
1:BE:109:LEU:C	1:AP:105:GLU:HB2	2.29	0.53
1:BE:118:THR:HG23	1:CP:53:TYR:CB	2.38	0.53
1:SE:71:ARG:HH22	1:JQ:210:ASN:HD21	1.43	0.53
1:aE:62:LEU:HD11	2:HR:52:SER:O	2.09	0.53
1:aE:62:LEU:HD11	2:HR:53:PHE:O	2.03	0.53
1:bE:111:ARG:HD3	1:CR:371:GLU:CD	2.32	0.53
1:CG:63:LEU:HD11	1:ZL:91:ILE:CD1	2.37	0.53
1:JG:62:LEU:HD13	1:JG:62:LEU:N	2.21	0.53
1:gG:359:MET:HE1	2:HL:24:THR:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iG:107:LEU:HD12	1:iG:110:LYS:HD3	1.90	0.53
4:BI:202:GLN:HB3	4:BO:137:ASN:HA	1.91	0.53
4:BI:250:ILE:CD1	3:AN:209:MET:CG	2.84	0.53
1:AJ:82:ILE:C	1:JS:142:PHE:O	2.47	0.53
1:AJ:290:ASN:N	1:AJ:326:GLU:OE2	2.38	0.53
1:BJ:175:LEU:HD11	1:BJ:241:LEU:HD21	1.90	0.53
1:KJ:240:ILE:HD11	1:KJ:270:VAL:HG13	1.90	0.53
1:LJ:372:VAL:CG1	2:ES:10:MET:CB	2.86	0.53
1:LK:21:ALA:HB1	1:DP:123:ASN:HD21	1.41	0.53
1:LK:145:LEU:HD12	2:FP:16:GLU:O	2.08	0.53
1:CL:321:VAL:CG2	1:CL:327:PHE:CE2	2.91	0.53
2:EL:45:ILE:HG13	2:EL:46:HIS:H	1.66	0.53
1:IL:71:ARG:HG3	2:fR:31:SER:HB3	1.90	0.53
1:JL:34:THR:HG21	1:LL:122:GLY:H	1.73	0.53
1:DP:372:VAL:HG23	2:mR:11:MET:CE	2.27	0.53
1:BQ:47:GLU:HG2	1:gR:22:LEU:HB3	1.90	0.53
1:cQ:368:GLU:OE1	1:eQ:375:TRP:NE1	2.35	0.53
1:dQ:107:LEU:HD12	1:dQ:110:LYS:HD3	1.90	0.53
1:JS:240:ILE:HD11	1:JS:270:VAL:HG13	1.90	0.53
1:B1:13:LEU:CD1	1:Y8:45:MET:CE	2.86	0.53
1:I1:45:MET:CE	1:UE:13:LEU:CD1	2.87	0.53
1:K1:107:LEU:HD12	1:K1:110:LYS:HD3	1.90	0.53
1:X1:71:ARG:HG3	2:P6:31:SER:HB3	1.90	0.53
2:e1:2:TYR:HB3	1:CL:150:ASN:CG	2.32	0.53
1:f1:125:ILE:HG22	1:QG:24:ASP:HB3	1.89	0.53
1:g1:34:THR:HG21	1:i1:122:GLY:H	1.73	0.53
3:A2:154:ILE:C	1:AK:54:LEU:CB	2.81	0.53
1:C3:74:TRP:CZ3	2:n7:32:ILE:CD1	2.89	0.53
1:A3:91:ILE:CD1	1:g7:63:LEU:HD11	2.37	0.53
1:J3:91:ILE:CD1	1:Q8:63:LEU:HD11	2.37	0.53
1:K3:107:LEU:HD12	1:K3:110:LYS:HD3	1.90	0.53
1:K3:263:GLY:HA2	2:N3:39:ASP:O	2.09	0.53
1:Q3:45:MET:CE	1:Z4:13:LEU:CD1	2.87	0.53
1:R3:91:ILE:CD1	1:I8:63:LEU:HD11	2.37	0.53
1:S3:107:LEU:HD12	1:S3:110:LYS:HD3	1.90	0.53
1:Y3:81:PHE:HD2	1:BK:139:ARG:CD	2.12	0.53
1:A4:34:THR:HG21	1:D4:122:GLY:H	1.73	0.53
1:B4:263:GLY:HA2	2:F4:39:ASP:O	2.09	0.53
2:H4:25:GLU:HG3	1:QG:70:ASN:HD22	1.74	0.53
1:I4:167:GLU:OE2	1:I4:352:TYR:OH	2.26	0.53
1:K4:263:GLY:HA2	2:N4:39:ASP:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N4:1:MET:H3	1:i7:150:ASN:HD21	1.55	0.53
1:Q4:24:ASP:HB3	1:IL:125:ILE:HG22	1.89	0.53
1:R4:109:LEU:C	1:IS:105:GLU:HB2	2.30	0.53
1:T4:368:GLU:HG2	1:KS:107:LEU:CD1	2.37	0.53
1:X4:63:LEU:HD11	1:Z8:91:ILE:CD1	2.37	0.53
1:X4:359:MET:HE1	2:f8:24:THR:HG21	1.90	0.53
1:Y4:60:GLU:HG3	1:Y4:62:LEU:HD21	1.89	0.53
1:f4:359:MET:HE1	2:fG:24:THR:CG2	2.39	0.53
1:g4:304:GLN:HE21	1:CD:28:ASP:HB2	1.73	0.53
2:l4:24:THR:HG21	1:YG:359:MET:HE1	1.90	0.53
4:B5:202:GLN:HB3	4:BI:137:ASN:HA	1.90	0.53
5:E5:57:GLU:CG	4:BH:33:TYR:HE1	2.09	0.53
1:I6:98:ASN:HD22	1:I6:99:MET:H	1.56	0.53
1:L6:44:THR:OG1	1:J8:14:VAL:O	2.26	0.53
1:Z6:34:THR:HG21	1:b6:122:GLY:H	1.73	0.53
1:b6:44:THR:OG1	1:Z7:14:VAL:O	2.26	0.53
1:h6:64:ILE:HD11	1:i6:88:GLU:HG3	1.89	0.53
1:i6:263:GLY:HA2	2:l6:39:ASP:O	2.09	0.53
1:C7:71:ARG:HG3	2:mR:31:SER:HB3	1.90	0.53
1:C7:74:TRP:CZ3	2:mR:32:ILE:CD1	2.89	0.53
1:C7:98:ASN:HD22	1:C7:99:MET:H	1.56	0.53
1:C7:118:THR:CB	1:DP:53:TYR:O	2.56	0.53
1:I7:139:ARG:HD3	1:gR:81:PHE:HD2	1.64	0.53
1:J7:104:ASN:ND2	1:J7:106:GLU:OE2	2.40	0.53
1:Q7:24:ASP:HB3	1:YL:125:ILE:HG22	1.89	0.53
1:S7:107:LEU:HD12	1:S7:110:LYS:HD3	1.90	0.53
1:S7:263:GLY:HA2	2:V7:39:ASP:O	2.09	0.53
1:a7:47:GLU:HG2	1:KE:22:LEU:HB3	1.90	0.53
2:f7:24:THR:HG21	1:IR:359:MET:HE1	1.90	0.53
1:i7:107:LEU:HD12	1:i7:110:LYS:HD3	1.90	0.53
1:I8:24:ASP:HB3	1:IR:125:ILE:HG22	1.89	0.53
1:J8:104:ASN:ND2	1:J8:106:GLU:OE2	2.40	0.53
1:R8:64:ILE:HD11	1:S8:88:GLU:HG3	1.89	0.53
1:i8:263:GLY:HA2	2:l8:39:ASP:O	2.09	0.53
5:D9:9:LYS:HE3	5:D9:66:TYR:HD1	1.73	0.53
1:LD:39:TRP:CG	1:DK:120:LEU:HD13	2.43	0.53
1:BE:34:THR:HG21	1:FE:122:GLY:H	1.73	0.53
1:BE:87:GLU:OE1	1:CP:55:PHE:HB3	2.08	0.53
1:LE:64:ILE:HD11	1:ME:88:GLU:HG3	1.89	0.53
1:ME:263:GLY:HA2	2:PE:39:ASP:O	2.09	0.53
1:UE:107:LEU:HD12	1:UE:110:LYS:HD3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZE:32:ILE:CD1	1:IQ:74:TRP:CZ3	2.89	0.53
1:bE:34:THR:HG21	1:dE:122:GLY:H	1.73	0.53
1:cE:107:LEU:HD12	1:cE:110:LYS:HD3	1.90	0.53
2:hE:24:THR:HG21	1:CR:359:MET:HE1	1.90	0.53
4:BF:137:ASN:HA	4:BM:202:GLN:HB3	1.90	0.53
4:BF:250:ILE:HD12	3:AO:208:LYS:C	2.30	0.53
5:EF:57:GLU:HA	4:BO:33:TYR:CZ	2.37	0.53
2:HG:24:THR:CG2	1:YL:359:MET:HE1	2.39	0.53
1:IG:167:GLU:OE2	1:IG:352:TYR:OH	2.26	0.53
1:KG:263:GLY:HA2	2:NG:39:ASP:O	2.09	0.53
1:QG:204:ALA:O	1:QG:207:ASN:HB2	2.08	0.53
1:aG:57:LYS:HE2	1:DK:143:GLN:OE1	2.08	0.53
2:kG:44:GLN:OE1	2:kG:44:GLN:HA	2.02	0.53
3:AI:73:ALA:O	3:AI:74:ARG:NE	2.37	0.53
3:AI:203:GLY:HA3	3:AM:169:LEU:HD21	1.90	0.53
4:BI:33:TYR:HE1	5:EM:57:GLU:CG	2.09	0.53
5:FI:31:PHE:CE2	5:FO:46:TYR:CG	2.74	0.53
1:BJ:197:LEU:HA	1:BJ:200:LYS:HB2	1.91	0.53
1:KJ:21:ALA:C	1:LP:47:GLU:OE1	2.44	0.53
1:KJ:27:HIS:CB	1:AP:312:PRO:CD	2.82	0.53
1:KJ:58:ILE:CA	1:LP:55:PHE:HE2	2.21	0.53
1:AK:85:TYR:HA	1:AK:122:GLY:HA2	1.91	0.53
1:BK:6:THR:HG22	1:BK:8:ASN:H	1.70	0.53
1:CK:24:ASP:O	1:iR:98:ASN:OD1	2.26	0.53
1:LK:137:ASP:CG	1:KP:50:VAL:CG2	2.79	0.53
1:AL:64:ILE:HD11	1:BL:88:GLU:HG3	1.89	0.53
1:IL:359:MET:HE1	2:fR:24:THR:HG21	1.90	0.53
1:QL:359:MET:HE1	2:XR:24:THR:CG2	2.39	0.53
2:cL:45:ILE:HG13	2:cL:46:HIS:H	1.66	0.53
4:BM:4:TYR:H	5:EM:36:ALA:HB2	1.73	0.53
1:BP:281:LYS:NZ	1:BP:313:VAL:O	2.40	0.53
1:YQ:82:ILE:HG23	1:AS:142:PHE:O	2.08	0.53
1:cQ:60:GLU:HG3	1:cQ:62:LEU:HD21	1.89	0.53
1:CR:204:ALA:O	1:CR:207:ASN:HB2	2.08	0.53
1:AR:34:THR:HG21	1:DR:122:GLY:H	1.73	0.53
1:AR:64:ILE:HD11	1:BR:88:GLU:HG3	1.89	0.53
1:IR:204:ALA:O	1:IR:207:ASN:HB2	2.08	0.53
1:KR:263:GLY:HA2	2:NR:39:ASP:O	2.09	0.53
1:gR:98:ASN:HD22	1:gR:99:MET:H	1.56	0.53
1:gR:321:VAL:CG2	1:gR:327:PHE:CE2	2.91	0.53
1:CS:71:ARG:NH1	1:CS:272:SER:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KS:216:ASN:ND2	1:KS:229:TYR:O	2.40	0.53
2:P1:53:PHE:CD2	1:IG:64:ILE:HG13	2.44	0.53
1:Q1:359:MET:HE1	2:X6:24:THR:CG2	2.39	0.53
1:R1:14:VAL:O	1:L3:44:THR:OG1	2.26	0.53
1:S1:98:ASN:OD1	1:CJ:24:ASP:O	2.26	0.53
1:X1:300:TYR:CA	1:J6:115:ARG:HH22	2.16	0.53
1:f1:321:VAL:CG2	1:f1:327:PHE:CE2	2.91	0.53
1:h1:47:GLU:HG2	1:QG:22:LEU:HB3	1.90	0.53
1:C3:150:ASN:CG	2:H4:2:TYR:HB3	2.32	0.53
1:C3:167:GLU:OE2	1:C3:352:TYR:OH	2.26	0.53
1:I3:45:MET:CE	1:SL:13:LEU:CD1	2.86	0.53
1:I3:63:LEU:HD11	1:R8:91:ILE:CD1	2.37	0.53
1:C4:45:MET:CE	1:BG:13:LEU:CD1	2.86	0.53
1:C4:62:LEU:HD11	2:XG:52:SER:O	2.09	0.53
1:C4:359:MET:HE1	2:XG:24:THR:CG2	2.39	0.53
1:I4:64:ILE:HG13	2:H8:53:PHE:CD2	2.44	0.53
1:Q4:22:LEU:HB3	1:KL:47:GLU:HG2	1.90	0.53
2:W4:25:GLU:HG3	1:g8:70:ASN:HD22	1.74	0.53
2:W4:52:SER:O	1:g8:62:LEU:HD11	2.09	0.53
1:X4:64:ILE:HG13	2:f8:53:PHE:CD2	2.44	0.53
2:e4:24:THR:CG2	1:Y8:359:MET:HE1	2.39	0.53
1:f4:45:MET:CE	1:B6:13:LEU:CD1	2.86	0.53
1:i4:139:ARG:CB	1:CD:81:PHE:CE2	2.84	0.53
3:A5:150:TYR:HB2	3:AN:37:GLU:CD	2.32	0.53
3:A5:203:GLY:HA3	3:AO:169:LEU:HD21	1.90	0.53
5:D5:67:ASP:CB	5:EN:11:PHE:HB2	2.39	0.53
1:S6:107:LEU:HD12	1:S6:110:LYS:HD3	1.90	0.53
1:Y6:64:ILE:HG13	2:RE:53:PHE:CD2	2.44	0.53
1:Y6:74:TRP:CZ3	2:RE:32:ILE:CD1	2.89	0.53
1:Y6:321:VAL:CG2	1:Y6:327:PHE:CE2	2.91	0.53
1:i6:368:GLU:OE2	1:CJ:107:LEU:HD22	2.04	0.53
2:n6:53:PHE:CD2	1:AE:64:ILE:HG13	2.44	0.53
1:C7:27:HIS:CA	1:AK:100:ASP:OD2	2.52	0.53
1:C7:29:TYR:HB3	1:LK:315:ALA:HB1	1.90	0.53
1:C7:30:SER:CA	1:LK:315:ALA:CB	2.85	0.53
1:C7:58:ILE:CD1	1:CK:55:PHE:CB	2.85	0.53
1:B7:13:LEU:HD13	1:DP:45:MET:HG2	1.90	0.53
1:B7:25:PHE:HE1	1:BP:126:VAL:CG1	2.20	0.53
1:I7:359:MET:HE1	2:iQ:24:THR:CG2	2.39	0.53
1:J7:64:ILE:HD11	1:K7:88:GLU:HG3	1.89	0.53
1:L7:63:LEU:HD21	1:L7:154:GLY:HA3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P7:24:THR:HG21	1:bQ:359:MET:HE1	1.90	0.53
1:Y7:204:ALA:O	1:Y7:207:ASN:HB2	2.08	0.53
1:i7:13:LEU:CD1	1:C8:45:MET:CE	2.87	0.53
1:B8:107:LEU:HD12	1:B8:110:LYS:HD3	1.90	0.53
1:S8:263:GLY:HA2	2:V8:39:ASP:O	2.09	0.53
1:a8:107:LEU:HD12	1:a8:110:LYS:HD3	1.90	0.53
1:a8:263:GLY:HA2	2:d8:39:ASP:O	2.09	0.53
1:h8:34:THR:HG21	1:j8:122:GLY:H	1.73	0.53
3:A9:7:GLY:N	5:DC:24:THR:CA	2.47	0.53
5:EA:140:ASP:HB3	5:CA:139:LYS:HZ3	1.74	0.53
5:DB:38:TYR:C	3:AO:202:ASN:HD21	2.15	0.53
4:BC:202:GLN:HB3	4:BH:137:ASN:HA	1.90	0.53
5:EC:11:PHE:HB2	5:DH:67:ASP:CB	2.39	0.53
1:BD:281:LYS:NZ	1:BD:313:VAL:O	2.40	0.53
1:KD:22:LEU:HD23	1:KS:47:GLU:CA	2.36	0.53
1:KD:32:SER:C	1:IS:170:GLU:OE2	2.51	0.53
1:AE:321:VAL:CG2	1:AE:327:PHE:CE2	2.91	0.53
1:ME:13:LEU:CD1	1:QQ:45:MET:CE	2.86	0.53
1:cE:13:LEU:CD1	1:CG:45:MET:CE	2.86	0.53
2:hE:24:THR:CG2	1:CR:359:MET:HE1	2.39	0.53
5:DF:40:THR:CG2	3:AI:197:VAL:HG11	2.27	0.53
1:CG:62:LEU:HD11	2:fL:52:SER:O	2.09	0.53
2:MG:45:ILE:HG13	2:MG:46:HIS:H	1.66	0.53
1:hG:60:GLU:HG3	1:hG:62:LEU:HD21	1.89	0.53
5:EH:10:TYR:CZ	5:EN:66:TYR:HB2	2.31	0.53
5:FH:31:PHE:HB2	5:FN:46:TYR:CE1	2.44	0.53
3:AI:169:LEU:HD21	3:AN:203:GLY:HA3	1.91	0.53
3:AI:209:MET:CG	4:BM:250:ILE:CD1	2.84	0.53
1:AJ:140:PHE:CZ	3:AN:22:GLU:OE2	2.62	0.53
1:LJ:105:GLU:O	1:gL:109:LEU:HB3	2.08	0.53
1:AK:128:LYS:HA	1:AK:376:ILE:O	2.07	0.53
1:CL:125:ILE:HG22	1:YR:24:ASP:HB3	1.89	0.53
1:DL:63:LEU:HD21	1:DL:154:GLY:HA3	1.91	0.53
1:IL:61:THR:CG2	1:ZR:89:TYR:HE1	2.16	0.53
1:IL:321:VAL:CG2	1:IL:327:PHE:CE2	2.91	0.53
1:QL:62:LEU:HD11	2:XR:52:SER:O	2.09	0.53
1:QL:359:MET:HE1	2:XR:24:THR:HG21	1.90	0.53
1:aL:263:GLY:HA2	2:dL:39:ASP:O	2.09	0.53
1:gL:130:LYS:HE3	1:gL:373:THR:HG21	1.91	0.53
1:CQ:321:VAL:CG2	1:CQ:327:PHE:CE2	2.91	0.53
1:CR:98:ASN:HD22	1:CR:99:MET:H	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IR:321:VAL:CG2	1:IR:327:PHE:CE2	2.91	0.53
1:IR:355:TYR:HB3	1:IR:379:TYR:HB3	1.88	0.53
1:SR:107:LEU:HD12	1:SR:110:LYS:HD3	1.90	0.53
1:JS:261:ILE:HG23	1:JS:265:ASP:OD1	2.01	0.53
1:A1:111:ARG:HD3	1:C6:371:GLU:CD	2.31	0.53
1:I1:139:ARG:HD3	1:SE:81:PHE:HD2	1.64	0.53
1:I1:321:VAL:CG2	1:I1:327:PHE:CE2	2.91	0.53
1:J1:14:VAL:O	1:NE:44:THR:OG1	2.26	0.53
2:P1:31:SER:HB3	1:IG:71:ARG:HG3	1.90	0.53
1:Q1:62:LEU:HD11	2:X6:52:SER:O	2.09	0.53
1:S1:13:LEU:CD1	1:Q8:45:MET:CE	2.86	0.53
1:X1:49:PHE:N	1:K8:137:ASP:OD2	2.42	0.53
1:X1:222:SER:CA	1:IR:38:LYS:HD3	2.35	0.53
3:A2:197:VAL:HG11	5:DC:40:THR:CG2	2.27	0.53
3:A2:203:GLY:HA3	3:AA:169:LEU:HD21	1.90	0.53
3:A2:242:ILE:HG22	3:A9:270:ASN:HD22	1.73	0.53
5:F2:46:TYR:CE1	5:FB:31:PHE:HB2	2.44	0.53
1:R3:104:ASN:ND2	1:R3:106:GLU:OE2	2.40	0.53
1:C4:22:LEU:HB3	1:BG:47:GLU:HG2	1.90	0.53
1:C4:64:ILE:HG13	2:XG:53:PHE:CD2	2.44	0.53
1:C4:70:ASN:HD22	2:XG:25:GLU:HG3	1.74	0.53
1:A4:111:ARG:HD3	1:QG:371:GLU:CD	2.31	0.53
2:H4:52:SER:O	1:QG:62:LEU:HD11	2.09	0.53
1:I4:71:ARG:HG3	2:H8:31:SER:HB3	1.90	0.53
1:I4:98:ASN:HD22	1:I4:99:MET:H	1.56	0.53
1:I4:359:MET:HE1	2:H8:24:THR:HG21	1.90	0.53
1:R4:116:MET:SD	1:BS:54:LEU:CD2	2.96	0.53
2:W4:24:THR:CG2	1:g8:359:MET:HE1	2.39	0.53
1:X4:204:ALA:O	1:X4:207:ASN:HB2	2.08	0.53
1:h4:107:LEU:HD12	1:h4:110:LYS:HD3	1.90	0.53
1:h4:263:GLY:HA2	2:j4:39:ASP:O	2.09	0.53
1:i4:130:LYS:HE3	1:i4:373:THR:HG21	1.91	0.53
2:l4:53:PHE:CD2	1:YG:64:ILE:HG13	2.44	0.53
3:A5:233:GLU:OE1	3:AN:228:ILE:HD12	2.01	0.53
5:E5:11:PHE:HB2	5:DI:67:ASP:CB	2.39	0.53
1:Q6:98:ASN:HD22	1:Q6:99:MET:H	1.56	0.53
1:Q6:321:VAL:CG2	1:Q6:327:PHE:CE2	2.91	0.53
2:f6:32:ILE:CD1	1:KE:74:TRP:CZ3	2.89	0.53
1:g6:29:TYR:HB3	1:LP:315:ALA:HB1	1.90	0.53
1:g6:31:LYS:HE2	1:LP:314:GLY:HA3	1.90	0.53
1:i6:13:LEU:C	1:DJ:45:MET:CG	2.70	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j6:44:THR:OG1	1:A8:14:VAL:O	2.26	0.53
2:n6:32:ILE:CD1	1:AE:74:TRP:CZ3	2.89	0.53
1:C7:27:HIS:CG	1:LK:312:PRO:HB3	2.40	0.53
1:A7:34:THR:HG21	1:D7:122:GLY:H	1.73	0.53
1:I7:64:ILE:HG13	2:iQ:53:PHE:CD2	2.44	0.53
1:I7:125:ILE:HG22	1:CQ:24:ASP:HB3	1.89	0.53
1:Q7:22:LEU:HB3	1:aL:47:GLU:HG2	1.90	0.53
1:R7:14:VAL:O	1:TL:44:THR:OG1	2.26	0.53
1:T7:63:LEU:HD21	1:T7:154:GLY:HA3	1.91	0.53
1:T7:130:LYS:HE3	1:T7:373:THR:HG21	1.91	0.53
1:Y7:14:VAL:CG2	1:SQ:14:VAL:HG23	2.36	0.53
1:C8:125:ILE:HG22	1:AE:24:ASP:HB3	1.89	0.53
1:C8:321:VAL:CG2	1:C8:327:PHE:CE2	2.91	0.53
1:T8:44:THR:OG1	1:RL:14:VAL:O	2.26	0.53
1:b8:130:LYS:HE3	1:b8:373:THR:HG21	1.91	0.53
1:i8:13:LEU:HD13	1:DD:45:MET:HG2	1.90	0.53
2:n8:2:TYR:HB3	1:IQ:150:ASN:CG	2.32	0.53
3:A9:203:GLY:HA3	3:AC:169:LEU:HD21	1.91	0.53
5:D9:38:TYR:C	3:AF:202:ASN:HD21	2.15	0.53
5:EB:140:ASP:CB	5:CB:139:LYS:HB3	2.01	0.53
3:AC:292:SER:OG	3:AC:297:LEU:O	2.26	0.53
4:BC:33:TYR:HE1	5:EN:57:GLU:CG	2.09	0.53
5:FC:126:THR:HA	5:FC:129:LYS:HE3	1.91	0.53
1:AD:143:GLN:HB3	3:AF:32:PHE:HE2	1.74	0.53
1:BD:326:GLU:O	1:BD:326:GLU:HG3	2.08	0.53
2:FD:15:TYR:CD2	1:KS:148:ALA:O	2.31	0.53
1:KD:240:ILE:HD11	1:KD:270:VAL:HG13	1.90	0.53
1:LD:47:GLU:CA	1:KK:22:LEU:HD23	2.37	0.53
1:LD:216:ASN:ND2	1:LD:229:TYR:O	2.40	0.53
1:KE:321:VAL:CG2	1:KE:327:PHE:CE2	2.91	0.53
1:SE:63:LEU:HD11	1:JQ:91:ILE:CD1	2.37	0.53
1:SE:371:GLU:CD	1:JQ:111:ARG:HD3	2.32	0.53
1:TE:34:THR:HG21	1:VE:122:GLY:H	1.73	0.53
2:ZE:24:THR:CG2	1:IQ:359:MET:HE1	2.39	0.53
1:bE:14:VAL:O	1:bL:44:THR:OG1	2.26	0.53
2:hE:53:PHE:CD2	1:CR:64:ILE:HG13	2.44	0.53
1:CG:62:LEU:HD11	2:fL:53:PHE:O	2.03	0.53
1:CG:64:ILE:HG13	2:fL:53:PHE:CD2	2.44	0.53
1:DG:130:LYS:HE3	1:DG:373:THR:HG21	1.91	0.53
1:YG:204:ALA:O	1:YG:207:ASN:HB2	2.08	0.53
1:ZG:60:GLU:HG3	1:ZG:62:LEU:HD21	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bG:63:LEU:HD21	1:bG:154:GLY:HA3	1.91	0.53
1:gG:64:ILE:HG13	2:HL:53:PHE:CD2	2.44	0.53
1:hG:111:ARG:HD3	1:CL:371:GLU:CD	2.31	0.53
2:nG:24:THR:CG2	1:CL:359:MET:HE1	2.39	0.53
2:nG:53:PHE:CD2	1:CL:64:ILE:HG13	2.44	0.53
1:AJ:170:GLU:OE2	1:JS:32:SER:C	2.51	0.53
1:LJ:39:TRP:CG	1:CS:120:LEU:HD13	2.44	0.53
1:LJ:145:LEU:HD12	2:ES:16:GLU:O	2.08	0.53
1:LJ:145:LEU:HD12	2:ES:16:GLU:HA	1.89	0.53
1:AK:170:GLU:OE2	1:KP:32:SER:C	2.51	0.53
1:AK:223:GLY:CA	1:KP:53:TYR:CD2	2.91	0.53
1:BK:281:LYS:HB2	1:BK:334:ILE:HD11	1.90	0.53
2:NK:1:MET:HE1	2:mR:54:THR:HG21	1.90	0.53
1:IL:359:MET:HE1	2:fR:24:THR:CG2	2.39	0.53
1:JL:259:PHE:HE1	1:YR:259:PHE:HE1	1.48	0.53
1:KL:263:GLY:HA2	2:NL:39:ASP:O	2.09	0.53
1:gL:63:LEU:HD21	1:gL:154:GLY:HA3	1.91	0.53
1:DQ:130:LYS:HE3	1:DQ:373:THR:HG21	1.91	0.53
1:RQ:14:VAL:O	1:LR:44:THR:OG1	2.26	0.53
1:YQ:130:LYS:HE3	1:YQ:373:THR:HG21	1.91	0.53
1:CR:208:LEU:HD12	1:CR:391:ILE:HD11	1.89	0.53
1:QR:321:VAL:CG2	1:QR:327:PHE:CE2	2.91	0.53
1:YR:321:VAL:CG2	1:YR:327:PHE:CE2	2.91	0.53
1:gR:208:LEU:HD12	1:gR:391:ILE:HD11	1.89	0.53
1:hR:64:ILE:HD11	1:iR:88:GLU:HG3	1.89	0.53
1:B1:47:GLU:HG2	1:Y8:22:LEU:HB3	1.90	0.53
1:D1:130:LYS:HE3	1:D1:373:THR:HG21	1.91	0.53
1:I1:70:ASN:HD22	2:PG:25:GLU:HG3	1.74	0.53
2:P1:24:THR:HG21	1:IG:359:MET:HE1	1.90	0.53
1:Q1:359:MET:HE1	2:X6:24:THR:HG21	1.90	0.53
1:R1:110:LYS:NZ	1:AJ:104:ASN:CB	2.66	0.53
1:X1:150:ASN:CG	2:X3:2:TYR:HB3	2.32	0.53
1:Y1:34:THR:HG21	1:a1:122:GLY:H	1.73	0.53
1:f1:359:MET:HE1	2:HQ:24:THR:CG2	2.39	0.53
1:h1:263:GLY:HA2	2:k1:39:ASP:O	2.09	0.53
4:B2:4:TYR:H	5:E2:36:ALA:HB2	1.73	0.53
4:B2:250:ILE:HD12	3:AF:208:LYS:C	2.30	0.53
5:D2:38:TYR:C	3:AM:202:ASN:HD21	2.15	0.53
1:C3:321:VAL:CG2	1:C3:327:PHE:CE2	2.91	0.53
1:C3:359:MET:HE1	2:n7:24:THR:CG2	2.39	0.53
1:I3:321:VAL:CG2	1:I3:327:PHE:CE2	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P3:53:PHE:CD2	1:Q8:64:ILE:HG13	2.44	0.53
1:Q3:24:ASP:HB3	1:X4:125:ILE:HG22	1.89	0.53
1:Q3:74:TRP:CZ3	2:P8:32:ILE:CD1	2.89	0.53
1:S3:365:HIS:HA	1:S3:372:VAL:HG23	1.91	0.53
1:Y3:116:MET:SD	1:BK:54:LEU:CG	2.97	0.53
1:b3:109:LEU:HB3	1:LD:105:GLU:O	2.08	0.53
1:b3:116:MET:SD	1:BD:54:LEU:HD11	2.49	0.53
1:A4:64:ILE:HD11	1:B4:88:GLU:HG3	1.89	0.53
1:B4:137:ASP:OD2	1:aE:49:PHE:N	2.42	0.53
1:J4:64:ILE:HD11	1:K4:88:GLU:HG3	1.89	0.53
1:Q4:62:LEU:HD11	2:n8:52:SER:O	2.09	0.53
2:W4:53:PHE:CD2	1:g8:64:ILE:HG13	2.44	0.53
1:X4:49:PHE:N	1:BR:137:ASP:OD2	2.42	0.53
1:X4:321:VAL:CG2	1:X4:327:PHE:CE2	2.91	0.53
1:a4:63:LEU:HD21	1:a4:154:GLY:HA3	1.91	0.53
2:e4:2:TYR:HB3	1:bQ:150:ASN:CG	2.32	0.53
1:f4:22:LEU:HB3	1:B6:47:GLU:HG2	1.90	0.53
2:l4:31:SER:HB3	1:YG:71:ARG:HG3	1.90	0.53
3:A5:181:SER:OG	3:AN:204:ALA:O	2.18	0.53
3:A5:270:ASN:HD22	3:AN:242:ILE:HG22	1.73	0.53
5:D5:9:LYS:HE3	5:D5:66:TYR:HD1	1.73	0.53
1:A6:34:THR:HG21	1:D6:122:GLY:H	1.73	0.53
1:D6:130:LYS:HE3	1:D6:373:THR:HG21	1.91	0.53
1:J6:64:ILE:HD11	1:K6:88:GLU:HG3	1.89	0.53
1:K6:13:LEU:CD1	1:CL:45:MET:CE	2.86	0.53
1:K6:263:GLY:HA2	2:N6:39:ASP:O	2.09	0.53
1:L6:98:ASN:HD22	1:L6:99:MET:N	2.07	0.53
2:f6:53:PHE:CD2	1:KE:64:ILE:HG13	2.44	0.53
1:g6:64:ILE:HG13	2:JE:53:PHE:CD2	2.44	0.53
1:g6:74:TRP:CZ3	2:JE:32:ILE:CD1	2.89	0.53
1:g6:81:PHE:CE2	1:DJ:136:ASN:O	2.62	0.53
1:g6:204:ALA:O	1:g6:207:ASN:HB2	2.08	0.53
1:g6:321:VAL:CG2	1:g6:327:PHE:CE2	2.91	0.53
1:i6:107:LEU:HD12	1:i6:110:LYS:HD3	1.90	0.53
2:l6:1:MET:H2	1:B8:150:ASN:HD21	1.54	0.53
2:n6:52:SER:O	1:AE:62:LEU:HD11	2.09	0.53
1:B7:107:LEU:HD12	1:B7:110:LYS:HD3	1.90	0.53
1:B7:368:GLU:OE2	1:CP:107:LEU:HD22	2.04	0.53
1:I7:45:MET:CE	1:iR:13:LEU:CD1	2.86	0.53
2:P7:53:PHE:CD2	1:bQ:64:ILE:HG13	2.44	0.53
2:X7:24:THR:CG2	1:QQ:359:MET:HE1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y7:49:PHE:N	1:SQ:137:ASP:OD2	2.42	0.53
1:Y7:359:MET:HE1	2:PR:24:THR:CG2	2.39	0.53
1:a7:137:ASP:OD2	1:KE:49:PHE:N	2.42	0.53
1:h7:34:THR:HG21	1:j7:122:GLY:H	1.73	0.53
1:j7:130:LYS:HE3	1:j7:373:THR:HG21	1.91	0.53
1:C8:116:MET:HE1	1:AE:54:LEU:HD11	0.77	0.53
1:I8:14:VAL:HB	1:KR:14:VAL:HG21	1.89	0.53
1:Q8:222:SER:HG	1:IG:53:TYR:HD1	1.37	0.53
1:Q8:321:VAL:CG2	1:Q8:327:PHE:CE2	2.91	0.53
1:g8:363:PRO:HG2	2:MS:9:SER:HB2	1.91	0.53
4:B9:250:ILE:HD12	3:AB:208:LYS:C	2.30	0.53
5:FA:126:THR:HA	5:FA:129:LYS:HE3	1.91	0.53
3:AB:169:LEU:HD21	3:AM:203:GLY:HA3	1.90	0.53
4:BB:4:TYR:H	5:EB:36:ALA:HB2	1.73	0.53
1:AD:82:ILE:C	1:KK:142:PHE:O	2.47	0.53
1:AD:128:LYS:HA	1:AD:376:ILE:O	2.07	0.53
1:AD:222:SER:O	1:KK:53:TYR:HE1	1.90	0.53
1:LD:25:PHE:CA	1:BK:99:MET:C	2.51	0.53
1:DE:116:MET:SD	1:BP:54:LEU:CG	2.97	0.53
1:BE:116:MET:SD	1:CP:54:LEU:CD2	2.96	0.53
1:ME:107:LEU:HD12	1:ME:110:LYS:HD3	1.90	0.53
1:VE:130:LYS:HE3	1:VE:373:THR:HG21	1.91	0.53
2:ZE:25:GLU:HG3	1:IQ:70:ASN:HD22	1.74	0.53
1:aE:64:ILE:HG13	2:HR:53:PHE:CD2	2.44	0.53
1:aE:70:ASN:HD22	2:HR:25:GLU:HG3	1.74	0.53
1:cE:137:ASP:OD2	1:CG:49:PHE:N	2.42	0.53
5:DF:9:LYS:HE3	5:DF:66:TYR:HD1	1.73	0.53
1:CG:359:MET:HE1	2:fL:24:THR:CG2	2.39	0.53
1:BG:107:LEU:HD12	1:BG:110:LYS:HD3	1.90	0.53
1:IG:98:ASN:HD22	1:IG:99:MET:H	1.56	0.53
2:fG:2:TYR:HB3	1:gG:150:ASN:CG	2.32	0.53
1:gG:98:ASN:HD22	1:gG:99:MET:H	1.56	0.53
1:gG:259:PHE:HE1	1:AL:259:PHE:HE1	1.48	0.53
3:AH:118:ASP:OD1	3:AH:118:ASP:N	2.36	0.53
3:AH:202:ASN:HD21	5:DI:38:TYR:C	2.15	0.53
5:FH:126:THR:HA	5:FH:129:LYS:HE3	1.91	0.53
1:BJ:34:THR:HG22	1:BJ:36:GLY:H	1.72	0.53
1:BJ:326:GLU:O	1:BJ:326:GLU:HG3	2.08	0.53
1:KJ:14:VAL:O	1:LP:44:THR:C	2.51	0.53
1:LJ:44:THR:C	1:JS:14:VAL:O	2.51	0.53
1:BK:281:LYS:NZ	1:BK:313:VAL:O	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:36:GLY:HA3	1:hR:119:LYS:HG3	1.91	0.53
1:RL:99:MET:SD	1:QR:128:LYS:CD	2.92	0.53
1:SL:263:GLY:HA2	2:VL:39:ASP:O	2.09	0.53
1:ZL:34:THR:HG21	1:bL:122:GLY:H	1.73	0.53
4:BM:137:ASN:HA	4:BO:202:GLN:HB3	1.90	0.53
1:BP:175:LEU:HD11	1:BP:241:LEU:HD21	1.89	0.53
1:LP:216:ASN:ND2	1:LP:229:TYR:O	2.40	0.53
1:CQ:98:ASN:HD22	1:CQ:99:MET:H	1.56	0.53
1:IQ:321:VAL:CG2	1:IQ:327:PHE:CE2	2.91	0.53
1:SQ:263:GLY:HA2	2:VQ:39:ASP:O	2.09	0.53
2:XQ:15:TYR:HE2	1:QR:152:ALA:HB2	1.67	0.53
1:YQ:116:MET:SD	1:AS:54:LEU:CG	2.97	0.53
1:IR:98:ASN:HD22	1:IR:99:MET:H	1.56	0.53
1:LR:130:LYS:HE3	1:LR:373:THR:HG21	1.91	0.53
1:QR:98:ASN:HD22	1:QR:99:MET:H	1.56	0.53
1:bR:130:LYS:HE3	1:bR:373:THR:HG21	1.91	0.53
1:iR:263:GLY:HA2	2:kR:39:ASP:O	2.09	0.53
1:AS:128:LYS:HA	1:AS:376:ILE:O	2.09	0.53
1:CS:350:ILE:O	2:FS:50:LYS:NZ	2.40	0.53
1:C1:45:MET:CE	1:dQ:13:LEU:CD1	2.86	0.53
1:C1:367:PRO:HD2	1:J7:108:MET:SD	2.49	0.53
1:C1:371:GLU:CD	1:A6:111:ARG:HD3	2.31	0.53
1:A1:34:THR:HG21	1:D1:122:GLY:H	1.73	0.53
1:I1:125:ILE:HG22	1:Y6:24:ASP:HB3	1.89	0.53
1:I1:359:MET:HE1	2:PG:24:THR:CG2	2.39	0.53
1:L1:130:LYS:HE3	1:L1:373:THR:HG21	1.91	0.53
1:Q1:45:MET:CE	1:KG:13:LEU:CD1	2.86	0.53
1:S1:263:GLY:HA2	2:U1:39:ASP:O	2.09	0.53
1:T1:63:LEU:HD21	1:T1:154:GLY:HA3	1.91	0.53
2:U1:11:MET:HG2	1:CJ:133:LEU:HD23	1.88	0.53
2:U1:16:GLU:HG2	1:CJ:149:THR:HG21	1.90	0.53
2:W1:25:GLU:HG3	1:Q6:70:ASN:HD22	1.74	0.53
1:Z1:107:LEU:HD12	1:Z1:110:LYS:HD3	1.90	0.53
1:Z1:137:ASP:OD2	1:IR:49:PHE:N	2.42	0.53
2:e1:25:GLU:HG3	1:I6:70:ASN:HD22	1.74	0.53
1:f1:61:THR:CG2	1:AQ:89:TYR:HE1	2.16	0.53
1:g1:259:PHE:HE1	1:CQ:259:PHE:HE1	1.48	0.53
3:A2:150:TYR:HB2	3:AB:37:GLU:CD	2.32	0.53
4:B2:33:TYR:CZ	5:EA:57:GLU:HA	2.37	0.53
1:C3:70:ASN:HD22	2:n7:25:GLU:HG3	1.74	0.53
1:C3:98:ASN:HD22	1:C3:99:MET:H	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:111:ARG:HD3	1:g7:371:GLU:CD	2.32	0.53
1:I3:64:ILE:HG13	2:X8:53:PHE:CD2	2.44	0.53
1:I3:359:MET:HE1	2:X8:24:THR:CG2	2.39	0.53
1:Q3:63:LEU:HD11	1:J8:91:ILE:HD12	1.91	0.53
1:Q3:64:ILE:HG13	2:P8:53:PHE:CD2	2.44	0.53
1:Y3:316:VAL:HG11	1:BK:33:TRP:CZ3	2.42	0.53
1:b3:98:ASN:HD22	1:b3:99:MET:N	2.07	0.53
1:I4:321:VAL:CG2	1:I4:327:PHE:CE2	2.91	0.53
1:K4:13:LEU:CD1	1:QL:45:MET:CE	2.86	0.53
2:P4:25:GLU:HG3	1:C8:70:ASN:HD22	1.74	0.53
1:Q4:45:MET:CE	1:KL:13:LEU:CD1	2.86	0.53
1:Q4:367:PRO:HD2	1:ZR:108:MET:SD	2.49	0.53
1:R4:119:LYS:HE2	1:BS:38:LYS:CD	2.37	0.53
1:S4:98:ASN:OD1	1:BS:24:ASP:O	2.26	0.53
1:S4:263:GLY:HA2	2:U4:39:ASP:O	2.09	0.53
1:T4:20:SER:HB2	1:AS:47:GLU:OE1	2.09	0.53
2:U4:16:GLU:HG2	1:BS:149:THR:HG21	1.89	0.53
1:X4:45:MET:CE	1:BR:13:LEU:CD1	2.87	0.53
1:g4:116:MET:SD	1:CD:54:LEU:CD2	2.96	0.53
1:h4:137:ASP:OD2	1:gG:49:PHE:N	2.42	0.53
2:j4:15:TYR:HH	1:CD:138:THR:HG21	1.71	0.53
1:C6:45:MET:CE	1:iG:13:LEU:CD1	2.86	0.53
1:C6:321:VAL:CG2	1:C6:327:PHE:CE2	2.91	0.53
1:C6:367:PRO:HD2	1:AL:108:MET:SD	2.49	0.53
1:I6:45:MET:CE	1:aR:13:LEU:CD1	2.86	0.53
1:I6:208:LEU:HD12	1:I6:391:ILE:HD11	1.89	0.53
2:P6:2:TYR:HB3	1:IR:150:ASN:CG	2.32	0.53
1:S6:13:LEU:HD13	1:CS:45:MET:HG2	1.90	0.53
1:S6:45:MET:CE	1:CS:39:TRP:CZ3	2.92	0.53
1:S6:368:GLU:CD	1:BS:107:LEU:HD22	2.32	0.53
1:Y6:62:LEU:HD11	2:RE:52:SER:O	2.09	0.53
1:a6:107:LEU:HD12	1:a6:110:LYS:HD3	1.90	0.53
1:g6:363:PRO:HG2	2:NP:9:SER:HB2	1.91	0.53
1:C7:359:MET:HE1	2:mR:24:THR:CG2	2.39	0.53
1:A7:14:VAL:O	1:DE:44:THR:OG1	2.26	0.53
1:I7:371:GLU:CD	1:cQ:111:ARG:HD3	2.31	0.53
2:M7:45:ILE:HG13	2:M7:46:HIS:H	1.66	0.53
1:Q7:70:ASN:HD22	2:XQ:25:GLU:HG3	1.74	0.53
1:S7:13:LEU:CD1	1:QR:45:MET:CE	2.86	0.53
2:X7:31:SER:HB3	1:QQ:71:ARG:HG3	1.90	0.53
2:f7:53:PHE:CD2	1:IR:64:ILE:HG13	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g7:204:ALA:O	1:g7:207:ASN:HB2	2.08	0.53
1:D8:130:LYS:HE3	1:D8:373:THR:HG21	1.91	0.53
1:K8:107:LEU:HD12	1:K8:110:LYS:HD3	1.90	0.53
1:a8:137:ASP:OD2	1:bQ:49:PHE:N	2.42	0.53
1:g8:31:LYS:HE2	1:KS:314:GLY:HA3	1.90	0.53
1:g8:316:VAL:HA	1:DD:31:LYS:NZ	2.22	0.53
3:AB:270:ASN:HD22	3:AF:242:ILE:HG22	1.73	0.53
5:EC:140:ASP:HB3	5:CC:139:LYS:HZ3	1.73	0.53
1:DD:166:LEU:HA	1:DD:169:LYS:HG2	1.91	0.53
1:LD:44:THR:C	1:KK:14:VAL:O	2.51	0.53
1:LD:148:ALA:O	2:FK:15:TYR:CD2	2.31	0.53
1:FE:98:ASN:HD22	1:FE:99:MET:N	2.07	0.53
2:JE:11:MET:CE	1:DJ:372:VAL:HG23	2.27	0.53
1:cE:47:GLU:HG2	1:CG:22:LEU:HB3	1.90	0.53
1:CG:259:PHE:HE1	1:ZL:259:PHE:HE1	1.48	0.53
1:CG:321:VAL:CG2	1:CG:327:PHE:CE2	2.91	0.53
1:CG:321:VAL:CG2	1:CG:327:PHE:CD2	2.92	0.53
1:CG:371:GLU:CD	1:ZL:111:ARG:HD3	2.31	0.53
1:AG:259:PHE:HE1	1:YL:259:PHE:HE1	1.48	0.53
1:IG:321:VAL:CG2	1:IG:327:PHE:CE2	2.91	0.53
1:QG:367:PRO:HD2	1:AQ:108:MET:SD	2.49	0.53
1:TG:98:ASN:HD22	1:TG:99:MET:N	2.07	0.53
1:YG:321:VAL:CG2	1:YG:327:PHE:CE2	2.91	0.53
1:aG:368:GLU:CD	1:CK:107:LEU:HD22	2.32	0.53
3:AH:150:TYR:O	1:AP:135:ASN:CG	2.49	0.53
4:BH:139:ASP:OD1	4:BH:139:ASP:N	2.40	0.53
1:BJ:54:LEU:HD11	1:gL:116:MET:SD	2.49	0.53
1:KJ:47:GLU:HB2	1:LP:22:LEU:CD2	2.29	0.53
1:KJ:99:MET:CE	1:JS:369:PHE:O	2.56	0.53
1:KJ:99:MET:HE1	1:JS:370:ASP:HB3	1.91	0.53
1:LJ:55:PHE:HE2	1:JS:58:ILE:CA	2.21	0.53
1:CK:32:SER:O	1:hR:382:LYS:HG3	2.03	0.53
1:CK:81:PHE:CZ	1:jR:139:ARG:HB2	2.43	0.53
1:IL:24:ASP:HB3	1:IQ:125:ILE:HG22	1.89	0.53
1:RL:108:MET:SD	1:YL:367:PRO:HD2	2.49	0.53
2:XL:25:GLU:HG3	1:QR:70:ASN:HD22	1.74	0.53
1:BQ:13:LEU:CD1	1:gR:45:MET:CE	2.86	0.53
1:IQ:98:ASN:HD22	1:IQ:99:MET:H	1.56	0.53
1:RQ:64:ILE:HD11	1:SQ:88:GLU:HG3	1.89	0.53
1:TQ:98:ASN:HD22	1:TQ:99:MET:N	2.07	0.53
1:YQ:116:MET:SD	1:AS:54:LEU:HD11	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bQ:98:ASN:HD22	1:bQ:99:MET:H	1.56	0.53
1:BR:107:LEU:HD12	1:BR:110:LYS:HD3	1.90	0.53
1:DR:98:ASN:HD22	1:DR:99:MET:N	2.07	0.53
1:YR:98:ASN:HD22	1:YR:99:MET:H	1.56	0.53
1:jR:98:ASN:HD22	1:jR:99:MET:N	2.07	0.53
1:KS:209:GLN:HE22	1:KS:235:LEU:HB3	1.74	0.53
1:C1:49:PHE:N	1:dQ:137:ASP:OD2	2.42	0.53
1:C1:321:VAL:CG2	1:C1:327:PHE:CE2	2.91	0.53
1:A1:64:ILE:HD11	1:B1:88:GLU:HG3	1.89	0.53
1:Q1:64:ILE:HG13	2:X6:53:PHE:CD2	2.44	0.53
1:Q1:360:LEU:HD23	2:X6:22:LYS:HG2	1.88	0.53
1:R1:87:GLU:OE1	1:CJ:55:PHE:HB3	2.09	0.53
1:X1:359:MET:HE1	2:P6:24:THR:CG2	2.39	0.53
1:Y1:14:VAL:O	1:b7:44:THR:OG1	2.26	0.53
1:Y1:64:ILE:HD11	1:Z1:88:GLU:HG3	1.89	0.53
1:a1:44:THR:OG1	1:ZR:14:VAL:O	2.26	0.53
2:e1:53:PHE:CD2	1:I6:64:ILE:HG13	2.44	0.53
1:f1:24:ASP:HB3	1:C3:125:ILE:HG22	1.89	0.53
1:h1:13:LEU:CD1	1:QG:45:MET:CE	2.86	0.53
5:E2:11:PHE:HB2	5:D9:67:ASP:CB	2.39	0.53
1:C3:45:MET:CE	1:SG:13:LEU:CD1	2.86	0.53
1:L3:130:LYS:HE3	1:L3:373:THR:HG21	1.91	0.53
1:R3:34:THR:HG21	1:T3:122:GLY:H	1.73	0.53
1:T3:44:THR:OG1	1:JR:14:VAL:O	2.26	0.53
1:b3:116:MET:SD	1:BD:54:LEU:CG	2.97	0.53
1:b3:311:ILE:HD12	1:BD:29:TYR:HD2	1.74	0.53
1:C4:367:PRO:HD2	1:ZL:108:MET:SD	2.49	0.53
1:I4:81:PHE:HE2	1:QL:139:ARG:HD2	1.63	0.53
2:P4:24:THR:CG2	1:C8:359:MET:HE1	2.39	0.53
1:Q4:321:VAL:CG2	1:Q4:327:PHE:CE2	2.91	0.53
1:Q4:360:LEU:HD23	2:n8:22:LYS:HG2	1.89	0.53
1:Q4:371:GLU:CD	1:h8:111:ARG:HD3	2.31	0.53
1:R4:118:THR:HG23	1:BS:53:TYR:CB	2.38	0.53
1:T4:139:ARG:HB2	1:BS:81:PHE:CZ	2.43	0.53
1:X4:62:LEU:HD11	2:f8:52:SER:O	2.09	0.53
1:X4:71:ARG:HG3	2:f8:31:SER:HB3	1.90	0.53
1:Z4:263:GLY:HA2	2:c4:39:ASP:O	2.09	0.53
1:g4:119:LYS:HG3	1:CD:36:GLY:HA3	1.91	0.53
4:B5:137:ASN:HA	4:BN:202:GLN:HB3	1.90	0.53
5:F5:31:PHE:HB2	5:FI:46:TYR:CE1	2.44	0.53
5:F5:46:TYR:CE1	5:FN:31:PHE:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C6:49:PHE:N	1:iG:137:ASP:OD2	2.42	0.53
1:A6:64:ILE:HD11	1:B6:88:GLU:HG3	1.89	0.53
1:D6:44:THR:OG1	1:cQ:14:VAL:O	2.26	0.53
1:S6:14:VAL:HA	1:CS:45:MET:CB	2.33	0.53
1:T6:105:GLU:C	1:BS:109:LEU:HD13	2.30	0.53
1:Y6:128:LYS:CD	1:LE:99:MET:SD	2.92	0.53
1:a6:263:GLY:HA2	2:d6:39:ASP:O	2.09	0.53
1:b6:98:ASN:HD22	1:b6:99:MET:N	2.07	0.53
2:f6:52:SER:O	1:KE:62:LEU:HD11	2.09	0.53
1:g6:62:LEU:HD11	2:JE:52:SER:O	2.09	0.53
1:h6:99:MET:SD	1:AE:128:LYS:CD	2.92	0.53
1:j6:105:GLU:O	1:CJ:109:LEU:CD1	2.41	0.53
1:A7:64:ILE:HD11	1:B7:88:GLU:HG3	1.89	0.53
1:B7:57:LYS:HE2	1:DP:143:GLN:OE1	2.08	0.53
1:I7:70:ASN:HD22	2:iQ:25:GLU:HG3	1.74	0.53
1:Q7:62:LEU:HD11	2:XQ:53:PHE:O	2.03	0.53
1:Q7:167:GLU:OE2	1:Q7:352:TYR:OH	2.26	0.53
1:Q7:359:MET:HE1	2:XQ:24:THR:CG2	2.39	0.53
1:Q7:371:GLU:OE1	1:RQ:111:ARG:CD	2.44	0.53
1:Y7:64:ILE:HG13	2:PR:53:PHE:CD2	2.44	0.53
1:Y7:70:ASN:HD22	2:PR:25:GLU:HG3	1.74	0.53
1:b7:130:LYS:HE3	1:b7:373:THR:HG21	1.91	0.53
1:i7:263:GLY:HA2	2:l7:39:ASP:O	2.09	0.53
1:j7:44:THR:OG1	1:RG:14:VAL:O	2.26	0.53
1:S8:137:ASP:OD2	1:IG:49:PHE:N	2.42	0.53
1:T8:98:ASN:HD22	1:T8:99:MET:N	2.07	0.53
1:T8:130:LYS:HE3	1:T8:373:THR:HG21	1.91	0.53
1:h8:64:ILE:HD11	1:i8:88:GLU:HG3	1.89	0.53
1:i8:137:ASP:HB3	1:DD:50:VAL:HG23	1.89	0.53
1:i8:145:LEU:HD22	2:ED:15:TYR:O	2.08	0.53
5:F9:31:PHE:HB2	5:FA:46:TYR:CE1	2.44	0.53
4:BA:30:LEU:N	5:EH:64:TRP:HE1	2.00	0.53
5:EA:140:ASP:CB	5:CA:139:LYS:HB3	2.01	0.53
5:FA:31:PHE:CE2	5:FC:47:ASP:CA	2.86	0.53
3:AB:114:PHE:CD2	2:MD:19:ARG:CG	2.91	0.53
5:FB:46:TYR:CE1	5:FF:31:PHE:HB2	2.44	0.53
5:FB:101:ILE:HA	5:FB:104:ILE:HG12	1.91	0.53
1:BD:98:ASN:N	1:KS:28:ASP:O	2.41	0.53
1:KD:14:VAL:O	1:KS:44:THR:C	2.51	0.53
1:KD:370:ASP:HB3	1:JS:99:MET:HE1	1.91	0.53
1:LD:55:PHE:HE2	1:KK:58:ILE:CA	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:145:LEU:HD12	2:FK:16:GLU:HA	1.89	0.53
1:LD:209:GLN:HE22	1:LD:235:LEU:HB3	1.74	0.53
2:MD:6:ASN:HA	1:KK:153:LEU:CD2	2.39	0.53
1:BE:64:ILE:HD11	1:CE:88:GLU:HG3	1.89	0.53
1:CE:107:LEU:HD12	1:CE:110:LYS:HD3	1.90	0.53
1:CE:263:GLY:HA2	2:HE:39:ASP:O	2.09	0.53
1:KE:204:ALA:O	1:KE:207:ASN:HB2	2.08	0.53
1:SE:359:MET:HE1	2:PQ:24:THR:CG2	2.39	0.53
2:hE:32:ILE:CD1	1:CR:74:TRP:CZ3	2.89	0.53
5:DF:38:TYR:C	3:AI:202:ASN:HD21	2.15	0.53
1:JG:64:ILE:HD11	1:KG:88:GLU:HG3	1.89	0.53
1:QG:321:VAL:CG2	1:QG:327:PHE:CE2	2.91	0.53
1:SG:263:GLY:HA2	2:VG:39:ASP:O	2.09	0.53
1:BJ:142:PHE:O	1:gL:82:ILE:HG23	2.08	0.53
1:LJ:25:PHE:C	1:AS:99:MET:O	2.47	0.53
1:AK:105:GLU:HB2	1:hR:109:LEU:C	2.29	0.53
1:BK:47:GLU:OE1	1:jR:20:SER:CB	2.57	0.53
1:BK:128:LYS:HA	1:BK:376:ILE:O	2.09	0.53
1:IL:46:PHE:HD1	1:ZR:85:TYR:OH	1.87	0.53
1:TL:63:LEU:HD21	1:TL:154:GLY:HA3	1.91	0.53
1:ZL:14:VAL:O	1:TQ:44:THR:OG1	2.26	0.53
1:aL:107:LEU:HD12	1:aL:110:LYS:HD3	1.90	0.53
1:bL:63:LEU:HD21	1:bL:154:GLY:HA3	1.91	0.53
1:bL:130:LYS:HE3	1:bL:373:THR:HG21	1.91	0.53
5:DM:9:LYS:HE3	5:DM:66:TYR:HD1	1.73	0.53
5:FM:126:THR:HA	5:FM:129:LYS:HE3	1.91	0.53
1:BP:128:LYS:HA	1:BP:376:ILE:O	2.09	0.53
1:QQ:321:VAL:CG2	1:QQ:327:PHE:CE2	2.91	0.53
1:AS:197:LEU:HA	1:AS:200:LYS:HB2	1.91	0.53
1:AS:326:GLU:O	1:AS:326:GLU:HG3	2.08	0.53
1:B1:150:ASN:HD21	2:c4:1:MET:H2	1.54	0.53
1:D1:44:THR:OG1	1:hG:14:VAL:O	2.26	0.53
1:I1:63:LEU:HD11	1:JG:91:ILE:HD12	1.91	0.53
1:K1:365:HIS:HA	1:K1:372:VAL:HG23	1.91	0.53
1:Z1:263:GLY:HA2	2:c1:39:ASP:O	2.09	0.53
1:a1:63:LEU:HD21	1:a1:154:GLY:HA3	1.91	0.53
2:e1:31:SER:HB3	1:I6:71:ARG:HG3	1.90	0.53
1:i1:130:LYS:HE3	1:i1:373:THR:HG21	1.91	0.53
3:A2:107:LEU:C	2:MD:7:MET:HG3	2.34	0.53
1:C3:359:MET:HE1	2:n7:24:THR:HG21	1.90	0.53
2:H3:22:LYS:HG2	1:g7:360:LEU:HD23	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H3:24:THR:CG2	1:g7:359:MET:HE1	2.39	0.53
1:K3:137:ASP:OD2	1:I4:49:PHE:N	2.42	0.53
1:L3:98:ASN:HD22	1:L3:99:MET:N	2.07	0.53
2:P3:24:THR:CG2	1:Q8:359:MET:HE1	2.39	0.53
2:P3:25:GLU:HG3	1:Q8:70:ASN:HD22	1.74	0.53
2:P3:52:SER:O	1:Q8:62:LEU:HD11	2.09	0.53
2:X3:24:THR:HG21	1:I8:359:MET:HE1	1.90	0.53
1:Y3:116:MET:SD	1:BK:54:LEU:HD21	2.49	0.53
1:b3:63:LEU:HD21	1:b3:154:GLY:HA3	1.91	0.53
1:C4:49:PHE:N	1:BG:137:ASP:OD2	2.42	0.53
2:H4:24:THR:CG2	1:QG:359:MET:HE1	2.39	0.53
1:J4:91:ILE:HD12	1:C8:63:LEU:HD11	1.91	0.53
1:J4:99:MET:SD	1:C8:128:LYS:CD	2.92	0.53
1:R4:14:VAL:O	1:VE:44:THR:OG1	2.26	0.53
1:R4:99:MET:SD	1:g8:128:LYS:CD	2.92	0.53
1:S4:13:LEU:CD1	1:IQ:45:MET:CE	2.86	0.53
1:T4:98:ASN:HD22	1:T4:99:MET:N	2.07	0.53
1:X4:22:LEU:HB3	1:BR:47:GLU:HG2	1.90	0.53
1:Y4:108:MET:SD	1:bQ:367:PRO:HD2	2.49	0.53
2:l4:52:SER:O	1:YG:62:LEU:HD11	2.09	0.53
3:A5:149:GLN:HE21	1:AJ:149:THR:CG2	2.08	0.53
3:A5:242:ILE:HG22	3:AI:270:ASN:HD22	1.73	0.53
4:B5:4:TYR:H	5:E5:36:ALA:HB2	1.73	0.53
4:B5:32:PHE:CD2	5:FO:55:LEU:HD12	2.06	0.53
1:Q6:25:PHE:C	1:AJ:100:ASP:HA	2.32	0.53
1:Q6:29:TYR:HB3	1:LJ:315:ALA:HB1	1.90	0.53
1:a6:13:LEU:CD1	1:SE:45:MET:CE	2.87	0.53
1:a6:47:GLU:HG2	1:SE:22:LEU:HB3	1.90	0.53
1:i6:57:LYS:HE2	1:DJ:143:GLN:OE1	2.08	0.53
1:C7:363:PRO:HG2	2:NK:9:SER:HB2	1.91	0.53
1:B7:263:GLY:HA2	2:F7:39:ASP:O	2.09	0.53
1:D7:63:LEU:HD21	1:D7:154:GLY:HA3	1.91	0.53
2:H7:25:GLU:HG3	1:gR:70:ASN:HD22	1.74	0.53
2:H7:53:PHE:CD2	1:gR:64:ILE:HG13	2.44	0.53
1:Q7:64:ILE:HG13	2:XQ:53:PHE:CD2	2.44	0.53
1:b7:63:LEU:HD21	1:b7:154:GLY:HA3	1.91	0.53
1:B8:365:HIS:HA	1:B8:372:VAL:HG23	1.91	0.53
1:J8:34:THR:HG21	1:L8:122:GLY:H	1.73	0.53
1:J8:108:MET:SD	1:CR:367:PRO:HD2	2.49	0.53
2:P8:2:TYR:HB3	1:CR:150:ASN:CG	2.32	0.53
1:Q8:98:ASN:HD22	1:Q8:99:MET:H	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B9:4:TYR:H	5:E9:36:ALA:HB2	1.73	0.53
4:BA:202:GLN:HB3	4:BC:137:ASN:HA	1.90	0.53
3:AB:292:SER:OG	3:AB:297:LEU:O	2.26	0.53
3:AC:155:GLU:OE1	1:AP:58:ILE:HD13	2.09	0.53
5:DC:9:LYS:HE3	5:DC:66:TYR:HD1	1.73	0.53
1:BD:128:LYS:HA	1:BD:376:ILE:O	2.09	0.53
1:DD:82:ILE:O	1:KD:59:ASN:ND2	2.42	0.53
1:DD:104:ASN:CG	5:DF:25:ARG:NH2	2.62	0.53
1:LD:315:ALA:HB1	1:YG:29:TYR:HB3	1.90	0.53
1:DE:116:MET:SD	1:BP:54:LEU:HD11	2.49	0.53
1:DE:130:LYS:HE3	1:DE:373:THR:HG21	1.91	0.53
1:CE:98:ASN:OD1	1:CP:24:ASP:O	2.26	0.53
1:FE:20:SER:CB	1:BP:47:GLU:OE1	2.57	0.53
1:ME:47:GLU:HG2	1:QQ:22:LEU:HB3	1.90	0.53
1:SE:204:ALA:O	1:SE:207:ASN:HB2	2.08	0.53
1:UE:263:GLY:HA2	2:XE:39:ASP:O	2.09	0.53
2:ZE:24:THR:HG21	1:IQ:359:MET:HE1	1.90	0.53
1:aE:98:ASN:HD22	1:aE:99:MET:H	1.56	0.53
1:aE:204:ALA:O	1:aE:207:ASN:HB2	2.08	0.53
1:dE:98:ASN:HD22	1:dE:99:MET:N	2.07	0.53
1:CG:63:LEU:HD11	1:ZL:91:ILE:HD12	1.91	0.53
1:ZG:108:MET:SD	1:gG:367:PRO:HD2	2.49	0.53
1:aG:263:GLY:HA2	2:dG:39:ASP:O	2.09	0.53
2:nG:25:GLU:HG3	1:CL:70:ASN:HD22	1.74	0.53
3:AH:110:GLU:C	2:MP:19:ARG:HH22	2.17	0.53
5:FH:101:ILE:HA	5:FH:104:ILE:HG12	1.91	0.53
5:FI:51:ARG:CD	4:BN:32:PHE:CE1	2.90	0.53
5:CI:265:LEU:CD1	5:NO:231:ASN:CA	2.74	0.53
1:AJ:315:ALA:HA	1:JS:30:SER:CA	2.37	0.53
1:BJ:98:ASN:N	1:LP:28:ASP:O	2.41	0.53
1:BJ:108:MET:HE2	1:LP:369:PHE:HB2	1.91	0.53
1:KJ:53:TYR:HE1	1:AP:222:SER:O	1.90	0.53
1:KJ:357:LYS:CE	3:AN:67:ASN:OD1	2.56	0.53
1:LJ:209:GLN:HE22	1:LJ:235:LEU:HB3	1.74	0.53
1:DK:82:ILE:O	1:KK:59:ASN:ND2	2.42	0.53
1:LK:55:PHE:HE2	1:KP:58:ILE:CA	2.21	0.53
1:LK:100:ASP:CA	1:jR:25:PHE:O	2.57	0.53
1:LK:133:LEU:HG	2:FP:11:MET:HB3	1.78	0.53
2:MK:6:ASN:HA	1:KP:153:LEU:CD2	2.39	0.53
1:LL:130:LYS:HE3	1:LL:373:THR:HG21	1.91	0.53
1:QL:64:ILE:HG13	2:XR:53:PHE:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AM:12:LEU:HD21	3:AO:193:ILE:HD11	1.91	0.53
3:AM:292:SER:OG	3:AM:297:LEU:O	2.26	0.53
4:BM:139:ASP:N	4:BM:139:ASP:OD1	2.40	0.53
5:FM:46:TYR:CE1	5:FO:31:PHE:HB2	2.44	0.53
1:BP:326:GLU:O	1:BP:326:GLU:HG3	2.08	0.53
1:CQ:321:VAL:CG2	1:CQ:327:PHE:CD2	2.92	0.53
2:aQ:15:TYR:OH	1:AS:138:THR:CG2	2.56	0.53
1:DR:63:LEU:HD21	1:DR:154:GLY:HA3	1.91	0.53
1:KR:365:HIS:HA	1:KR:372:VAL:HG23	1.91	0.53
1:LR:63:LEU:HD21	1:LR:154:GLY:HA3	1.91	0.53
1:bR:98:ASN:HD22	1:bR:99:MET:N	2.07	0.53
1:CS:166:LEU:HA	1:CS:169:LYS:HG2	1.90	0.53
1:B1:263:GLY:HA2	2:F1:39:ASP:O	2.09	0.53
1:I1:49:PHE:N	1:UE:137:ASP:OD2	2.42	0.53
1:I1:64:ILE:HG13	2:PG:53:PHE:CD2	2.44	0.53
1:I1:116:MET:HE1	1:Y6:54:LEU:HD11	0.77	0.53
1:I1:360:LEU:HD23	2:PG:22:LYS:HG2	1.89	0.53
1:I1:367:PRO:HD2	1:JQ:108:MET:SD	2.49	0.53
1:Q1:125:ILE:HG22	1:Q8:24:ASP:HB3	1.89	0.53
1:R1:116:MET:SD	1:CJ:54:LEU:CD2	2.96	0.53
1:Y1:108:MET:SD	1:CL:367:PRO:HD2	2.49	0.53
1:a1:130:LYS:HE3	1:a1:373:THR:HG21	1.91	0.53
1:f1:64:ILE:HG13	2:HQ:53:PHE:CD2	2.44	0.53
1:f1:357:LYS:HD3	2:HQ:17:ASP:HB2	1.91	0.53
1:f1:367:PRO:HD2	1:h7:108:MET:SD	2.49	0.53
1:g1:108:MET:SD	1:gR:367:PRO:HD2	2.49	0.53
3:A2:270:ASN:HD22	3:AB:242:ILE:HG22	1.73	0.53
4:B2:139:ASP:OD1	4:B2:139:ASP:N	2.40	0.53
5:E2:64:TRP:HE1	4:BF:30:LEU:N	2.00	0.53
1:C3:357:LYS:HD3	2:n7:17:ASP:HB2	1.91	0.53
1:A3:34:THR:HG21	1:D3:122:GLY:H	1.73	0.53
1:I3:62:LEU:HD11	2:X8:52:SER:O	2.09	0.53
1:I3:70:ASN:HD22	2:X8:25:GLU:HG3	1.74	0.53
1:I3:98:ASN:HD22	1:I3:99:MET:H	1.56	0.53
1:C4:357:LYS:HD3	2:XG:17:ASP:HB2	1.91	0.53
1:L4:98:ASN:HD22	1:L4:99:MET:N	2.07	0.53
1:Q4:359:MET:HE1	2:n8:24:THR:CG2	2.39	0.53
1:S4:100:ASP:HA	1:BS:25:PHE:C	2.24	0.53
1:T4:31:LYS:O	1:BS:125:ILE:CD1	2.30	0.53
2:W4:17:ASP:HB2	1:g8:357:LYS:HD3	1.91	0.53
2:e4:17:ASP:HB2	1:Y8:357:LYS:HD3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e4:31:SER:HB3	1:Y8:71:ARG:HG3	1.90	0.53
1:f4:71:ARG:HG3	2:fG:31:SER:HB3	1.90	0.53
1:f4:357:LYS:HD3	2:fG:17:ASP:HB2	1.91	0.53
1:h4:13:LEU:CD1	1:gG:45:MET:CE	2.86	0.53
1:I6:49:PHE:N	1:aR:137:ASP:OD2	2.42	0.53
1:K6:107:LEU:HD12	1:K6:110:LYS:HD3	1.90	0.53
1:T6:105:GLU:O	1:BS:109:LEU:CD1	2.41	0.53
1:Z6:64:ILE:HD11	1:a6:88:GLU:HG3	1.89	0.53
1:Z6:91:ILE:HD12	1:KE:63:LEU:HD11	1.91	0.53
2:f6:24:THR:CG2	1:KE:359:MET:HE1	2.39	0.53
1:g6:359:MET:HE1	2:JE:24:THR:CG2	2.39	0.53
1:i6:145:LEU:HD22	2:EJ:15:TYR:O	2.08	0.53
2:n6:24:THR:HG21	1:AE:359:MET:HE1	1.90	0.53
1:C7:31:LYS:HE2	1:LK:314:GLY:HA3	1.90	0.53
1:C7:64:ILE:HG13	2:mR:53:PHE:CD2	2.44	0.53
1:A7:108:MET:SD	1:I7:367:PRO:HD2	2.49	0.53
1:D7:44:THR:OG1	1:AQ:14:VAL:O	2.26	0.53
2:H7:31:SER:HB3	1:gR:71:ARG:HG3	1.90	0.53
1:J7:34:THR:HG21	1:L7:122:GLY:H	1.73	0.53
1:Q7:367:PRO:HD2	1:AG:108:MET:SD	2.49	0.53
1:R7:64:ILE:HD11	1:S7:88:GLU:HG3	1.89	0.53
1:S7:47:GLU:HG2	1:QR:22:LEU:HB3	1.90	0.53
2:X7:25:GLU:HG3	1:QQ:70:ASN:HD22	1.74	0.53
1:Y7:321:VAL:CG2	1:Y7:327:PHE:CD2	2.92	0.53
1:Y7:359:MET:HE1	2:PR:24:THR:HG21	1.90	0.53
2:f7:31:SER:HB3	1:IR:71:ARG:HG3	1.90	0.53
1:g7:22:LEU:HB3	1:CE:47:GLU:HG2	1.90	0.53
1:g7:45:MET:CE	1:CE:13:LEU:CD1	2.87	0.53
1:i8:45:MET:CE	1:DD:39:TRP:CZ3	2.92	0.53
3:A9:193:ILE:HD11	3:AA:12:LEU:HD21	1.91	0.53
3:A9:292:SER:OG	3:A9:297:LEU:O	2.26	0.53
4:B9:30:LEU:N	5:EC:64:TRP:HE1	2.00	0.53
3:AA:197:VAL:CG2	5:EH:37:ASP:CB	2.74	0.53
4:BA:30:LEU:HB2	5:EH:64:TRP:CD1	2.41	0.53
5:DB:67:ASP:CB	5:EF:11:PHE:HB2	2.39	0.53
3:AC:194:ASN:HD21	4:BN:3:ARG:CA	2.22	0.53
1:BD:197:LEU:HA	1:BD:200:LYS:HB2	1.91	0.53
1:DD:71:ARG:NH1	1:DD:272:SER:O	2.41	0.53
1:DD:87:GLU:CD	1:KS:55:PHE:CB	2.81	0.53
1:DD:104:ASN:ND2	5:DF:25:ARG:HH22	1.91	0.53
1:LD:368:GLU:OE1	1:DK:130:LYS:HB2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:369:PHE:HB2	1:BK:108:MET:HE2	1.91	0.53
1:BE:222:SER:N	1:CP:38:LYS:CD	1.89	0.53
1:FE:25:PHE:O	1:LP:100:ASP:CA	2.57	0.53
1:SE:359:MET:HE1	2:PQ:24:THR:HG21	1.90	0.53
1:SE:360:LEU:HD23	2:PQ:22:LYS:HG2	1.89	0.53
1:TE:108:MET:SD	1:IL:367:PRO:HD2	2.49	0.53
2:ZE:17:ASP:HB2	1:IQ:357:LYS:HD3	1.91	0.53
1:aE:357:LYS:HD3	2:HR:17:ASP:HB2	1.91	0.53
1:dE:130:LYS:HE3	1:dE:373:THR:HG21	1.91	0.53
5:FF:101:ILE:HA	5:FF:104:ILE:HG12	1.91	0.53
1:BG:263:GLY:HA2	2:FG:39:ASP:O	2.09	0.53
1:gG:359:MET:HE1	2:HL:24:THR:CG2	2.39	0.53
2:nG:31:SER:HB3	1:CL:71:ARG:HG3	1.90	0.53
5:DI:9:LYS:HE3	5:DI:66:TYR:HD1	1.73	0.53
1:BJ:29:TYR:HD2	1:gL:311:ILE:HD12	1.74	0.53
1:CJ:238:ILE:HA	1:CJ:346:ASP:HA	1.91	0.53
1:KJ:153:LEU:CD2	2:MP:6:ASN:HA	2.39	0.53
1:CK:31:LYS:NZ	1:hR:316:VAL:HG23	2.17	0.53
1:KK:281:LYS:NZ	1:KK:313:VAL:O	2.32	0.53
1:LK:28:ASP:O	1:BP:98:ASN:N	2.41	0.53
1:AL:34:THR:HG21	1:DL:122:GLY:H	1.73	0.53
1:IL:357:LYS:HD3	2:fR:17:ASP:HB2	1.91	0.53
1:QL:360:LEU:HD23	2:XR:22:LYS:HG2	1.88	0.53
1:YL:98:ASN:HD22	1:YL:99:MET:H	1.56	0.53
3:AO:66:ILE:CD1	1:IS:150:ASN:HD21	2.22	0.53
1:DP:82:ILE:O	1:KP:59:ASN:ND2	2.42	0.53
1:LP:209:GLN:HE22	1:LP:235:LEU:HB3	1.74	0.53
1:BQ:263:GLY:HA2	2:FQ:39:ASP:O	2.09	0.53
1:DQ:98:ASN:HD22	1:DQ:99:MET:N	2.07	0.53
1:LQ:130:LYS:HE3	1:LQ:373:THR:HG21	1.91	0.53
1:RQ:108:MET:SD	1:QR:367:PRO:HD2	2.49	0.53
1:JR:34:THR:HG21	1:LR:122:GLY:H	1.73	0.53
1:QR:204:ALA:O	1:QR:207:ASN:HB2	2.08	0.53
1:SR:263:GLY:HA2	2:VR:39:ASP:O	2.09	0.53
1:YR:321:VAL:CG2	1:YR:327:PHE:CD2	2.92	0.53
1:aR:263:GLY:HA2	2:dR:39:ASP:O	2.09	0.53
1:BS:238:ILE:HA	1:BS:346:ASP:HA	1.91	0.53
1:J1:34:THR:HG21	1:L1:122:GLY:H	1.73	0.53
1:J1:108:MET:SD	1:Q1:367:PRO:HD2	2.49	0.53
1:Q1:357:LYS:HD3	2:X6:17:ASP:HB2	1.91	0.53
1:X1:64:ILE:HG13	2:P6:53:PHE:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f1:46:PHE:HD1	1:AQ:85:TYR:OH	1.87	0.53
1:f1:75:LEU:HD22	2:E4:50:LYS:HD3	1.91	0.53
5:D2:9:LYS:HE3	5:D2:66:TYR:HD1	1.73	0.53
5:F2:101:ILE:HA	5:F2:104:ILE:HG12	1.91	0.53
1:C3:50:VAL:CG2	1:SG:137:ASP:HB3	2.39	0.53
1:C3:64:ILE:HG13	2:n7:53:PHE:CD2	2.44	0.53
1:A3:108:MET:SD	1:C8:367:PRO:HD2	2.49	0.53
1:D3:130:LYS:HE3	1:D3:373:THR:HG21	1.91	0.53
1:I3:24:ASP:HB3	1:QL:125:ILE:HG22	1.89	0.53
1:I3:222:SER:HG	1:I4:53:TYR:HD1	1.37	0.53
1:I3:367:PRO:HD2	1:RR:108:MET:SD	2.49	0.53
1:Q3:167:GLU:OE2	1:Q3:352:TYR:OH	2.26	0.53
1:Q3:359:MET:HE1	2:P8:24:THR:HG21	1.90	0.53
1:S3:137:ASP:OD2	1:CR:49:PHE:N	2.42	0.53
1:Y3:116:MET:SD	1:BK:54:LEU:HD11	2.49	0.53
1:b3:377:HIS:CD2	1:BD:370:ASP:CG	2.85	0.53
2:H4:22:LYS:HG2	1:QG:360:LEU:HD23	1.89	0.53
2:H4:53:PHE:CD2	1:QG:64:ILE:HG13	2.44	0.53
2:P4:22:LYS:HG2	1:C8:360:LEU:HD23	1.89	0.53
2:P4:53:PHE:CD2	1:C8:64:ILE:HG13	2.44	0.53
1:R4:100:ASP:CA	1:DD:25:PHE:O	2.50	0.53
1:X4:63:LEU:HD11	1:Z8:91:ILE:HD12	1.91	0.53
1:X4:98:ASN:HD22	1:X4:99:MET:H	1.56	0.53
1:f4:321:VAL:CG2	1:f4:327:PHE:CE2	2.91	0.53
1:g4:34:THR:HG21	1:i4:122:GLY:H	1.73	0.53
1:g4:91:ILE:HD12	1:YG:63:LEU:HD11	1.91	0.53
1:B6:263:GLY:HA2	2:F6:39:ASP:O	2.09	0.53
1:I6:367:PRO:HD2	1:JL:108:MET:SD	2.49	0.53
1:J6:14:VAL:O	1:jG:44:THR:OG1	2.26	0.53
1:K6:137:ASP:HB3	1:CL:50:VAL:CG2	2.39	0.53
1:L6:130:LYS:HE3	1:L6:373:THR:HG21	1.91	0.53
1:Q6:81:PHE:CE2	1:CS:136:ASN:O	2.62	0.53
1:Q6:204:ALA:O	1:Q6:207:ASN:HB2	2.08	0.53
1:S6:263:GLY:HA2	2:V6:39:ASP:O	2.09	0.53
1:S6:365:HIS:HA	1:S6:372:VAL:HG23	1.91	0.53
1:a6:150:ASN:HD21	2:NQ:1:MET:H3	1.57	0.53
1:g6:63:LEU:HD11	1:BE:91:ILE:HD12	1.91	0.53
1:g6:75:LEU:HD22	2:hL:50:LYS:HD3	1.92	0.53
1:g6:316:VAL:CA	1:DJ:31:LYS:NZ	2.38	0.53
1:j6:63:LEU:HD21	1:j6:154:GLY:HA3	1.91	0.53
1:D7:130:LYS:HE3	1:D7:373:THR:HG21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I7:49:PHE:N	1:iR:137:ASP:OD2	2.42	0.53
1:I7:50:VAL:CG2	1:iR:137:ASP:HB3	2.39	0.53
1:J7:259:PHE:HE1	1:bQ:259:PHE:HE1	1.48	0.53
1:K7:263:GLY:HA2	2:N7:39:ASP:O	2.09	0.53
2:P7:24:THR:CG2	1:bQ:359:MET:HE1	2.39	0.53
1:Q7:63:LEU:HD11	1:RQ:91:ILE:HD12	1.91	0.53
1:Q7:321:VAL:CG2	1:Q7:327:PHE:CE2	2.91	0.53
1:Q7:357:LYS:HD3	2:XQ:17:ASP:HB2	1.91	0.53
2:U7:50:LYS:HD3	1:KE:75:LEU:HD22	1.92	0.53
1:Y7:22:LEU:HB3	1:SQ:47:GLU:HG2	1.90	0.53
2:f7:24:THR:CG2	1:IR:359:MET:HE1	2.39	0.53
2:f7:32:ILE:CD1	1:IR:74:TRP:CZ3	2.89	0.53
1:A8:34:THR:HG21	1:D8:122:GLY:H	1.73	0.53
1:I8:49:PHE:N	1:KR:137:ASP:OD2	2.42	0.53
1:I8:50:VAL:CG2	1:KR:137:ASP:HB3	2.39	0.53
1:a8:13:LEU:CD1	1:bQ:45:MET:CE	2.86	0.53
1:i8:368:GLU:CD	1:CD:107:LEU:HD22	2.33	0.53
2:k8:50:LYS:HD3	1:IL:75:LEU:HD22	1.91	0.53
4:B9:250:ILE:CD1	3:AB:209:MET:CG	2.84	0.53
5:DA:9:LYS:HE3	5:DA:66:TYR:HD1	1.73	0.53
5:EA:11:PHE:HB2	5:DC:67:ASP:CB	2.39	0.53
3:AC:242:ILE:HG22	3:AH:270:ASN:HD22	1.73	0.53
1:AD:144:THR:HB	3:AF:36:LEU:CD1	2.38	0.53
1:DE:63:LEU:HD21	1:DE:154:GLY:HA3	1.91	0.53
2:GE:15:TYR:OH	1:BP:138:THR:CG2	2.56	0.53
1:FE:139:ARG:CB	1:CP:81:PHE:CE2	2.84	0.53
1:NE:63:LEU:HD21	1:NE:154:GLY:HA3	1.91	0.53
2:ZE:22:LYS:HG2	1:IQ:360:LEU:HD23	1.88	0.53
2:ZE:53:PHE:CD2	1:IQ:64:ILE:HG13	2.44	0.53
1:aE:359:MET:HE1	2:HR:24:THR:CG2	2.39	0.53
1:aE:359:MET:HE1	2:HR:24:THR:HG21	1.90	0.53
1:bE:91:ILE:HD12	1:CR:63:LEU:HD11	1.91	0.53
5:FF:46:TYR:CE1	5:FM:31:PHE:HB2	2.44	0.53
1:CG:98:ASN:HD22	1:CG:99:MET:H	1.56	0.53
1:AG:34:THR:HG21	1:DG:122:GLY:H	1.73	0.53
1:AG:60:GLU:HG3	1:AG:62:LEU:HD21	1.89	0.53
1:LG:98:ASN:HD22	1:LG:99:MET:N	2.07	0.53
1:YG:81:PHE:CE2	1:DK:136:ASN:O	2.62	0.53
1:YG:98:ASN:HD22	1:YG:99:MET:H	1.56	0.53
1:gG:167:GLU:OE2	1:gG:352:TYR:OH	2.26	0.53
1:hG:108:MET:SD	1:YR:367:PRO:HD2	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:120:LEU:HD12	1:JS:55:PHE:CB	2.34	0.53
1:KJ:367:PRO:O	1:AP:377:HIS:CE1	2.62	0.53
2:MJ:15:TYR:O	1:JS:145:LEU:HB3	2.09	0.53
1:AK:82:ILE:C	1:KP:142:PHE:O	2.47	0.53
1:AK:377:HIS:NE2	1:KP:370:ASP:HB2	2.22	0.53
1:DK:166:LEU:HA	1:DK:169:LYS:HG2	1.90	0.53
1:KK:99:MET:HE1	1:KP:370:ASP:HB3	1.91	0.53
1:BL:263:GLY:HA2	2:FL:39:ASP:O	2.09	0.53
1:DL:130:LYS:HE3	1:DL:373:THR:HG21	1.91	0.53
1:QL:357:LYS:HD3	2:XR:17:ASP:HB2	1.91	0.53
1:YL:321:VAL:CG2	1:YL:327:PHE:CE2	2.91	0.53
1:gL:98:ASN:HD22	1:gL:99:MET:N	2.07	0.53
3:AM:116:VAL:C	2:LS:7:MET:HE2	1.42	0.53
4:BO:139:ASP:N	4:BO:139:ASP:OD1	2.40	0.53
5:DO:9:LYS:HE3	5:DO:66:TYR:HD1	1.73	0.53
5:FO:101:ILE:HA	5:FO:104:ILE:HG12	1.91	0.53
5:FO:126:THR:HA	5:FO:129:LYS:HE3	1.91	0.53
1:DP:71:ARG:NH1	1:DP:272:SER:O	2.41	0.53
1:BQ:137:ASP:OD2	1:gR:49:PHE:N	2.42	0.53
1:JQ:34:THR:HG21	1:LQ:122:GLY:H	1.73	0.53
1:QQ:75:LEU:HD22	2:MR:50:LYS:HD3	1.91	0.53
1:SR:365:HIS:HA	1:SR:372:VAL:HG23	1.91	0.53
1:IS:103:LYS:HE3	1:KS:304:GLN:HB3	1.91	0.53
1:B1:365:HIS:HA	1:B1:372:VAL:HG23	1.91	0.52
1:J1:111:ARG:HD3	1:IG:371:GLU:CD	2.31	0.52
1:Q1:139:ARG:HD2	1:IG:81:PHE:HE2	1.63	0.52
1:R1:91:ILE:HD12	1:Q6:63:LEU:HD11	1.91	0.52
1:R1:119:LYS:HE2	1:CJ:38:LYS:CG	2.39	0.52
1:S1:137:ASP:OD2	1:Q8:49:PHE:N	2.42	0.52
1:T1:139:ARG:HB2	1:CJ:81:PHE:CZ	2.43	0.52
1:X1:45:MET:CE	1:K8:13:LEU:CD1	2.86	0.52
1:X1:75:LEU:HD22	2:c7:50:LYS:HD3	1.91	0.52
1:i1:63:LEU:HD21	1:i1:154:GLY:HA3	1.91	0.52
5:D2:24:THR:CA	3:AF:7:GLY:N	2.47	0.52
1:C3:360:LEU:HD23	2:n7:22:LYS:HG2	1.88	0.52
2:H3:24:THR:HG21	1:g7:359:MET:HE1	1.90	0.52
1:I3:49:PHE:N	1:SL:137:ASP:OD2	2.42	0.52
1:J3:108:MET:SD	1:IG:367:PRO:HD2	2.49	0.52
1:Q3:357:LYS:HD3	2:P8:17:ASP:HB2	1.91	0.52
1:Y3:98:ASN:HD22	1:Y3:99:MET:N	2.07	0.52
1:C4:359:MET:HE1	2:XG:24:THR:HG21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B4:13:LEU:CD1	1:aE:45:MET:CE	2.86	0.52
1:D4:130:LYS:HE3	1:D4:373:THR:HG21	1.91	0.52
1:Q4:49:PHE:N	1:KL:137:ASP:OD2	2.42	0.52
1:Q4:98:ASN:HD22	1:Q4:99:MET:H	1.56	0.52
1:S4:137:ASP:HB3	1:IQ:50:VAL:CG2	2.39	0.52
1:T4:25:PHE:O	1:KS:100:ASP:CA	2.57	0.52
2:W4:24:THR:HG21	1:g8:359:MET:HE1	1.90	0.52
1:X4:208:LEU:HD12	1:X4:391:ILE:HD11	1.89	0.52
1:Y4:111:ARG:HD3	1:Y8:371:GLU:CD	2.31	0.52
1:h4:129:GLN:NE2	1:h4:159:LYS:O	2.41	0.52
5:F5:51:ARG:CD	4:BH:32:PHE:CE1	2.90	0.52
1:I6:50:VAL:CG2	1:aR:137:ASP:HB3	2.39	0.52
1:J6:108:MET:SD	1:IR:367:PRO:HD2	2.49	0.52
1:K6:137:ASP:OD2	1:CL:49:PHE:N	2.42	0.52
1:K6:365:HIS:HA	1:K6:372:VAL:HG23	1.91	0.52
1:Q6:13:LEU:HD23	1:CJ:45:MET:HG2	1.90	0.52
1:Q6:75:LEU:HD22	2:ZQ:50:LYS:HD3	1.92	0.52
1:R6:108:MET:SD	1:Q8:367:PRO:HD2	2.49	0.52
1:Y6:359:MET:HE1	2:RE:24:THR:HG21	1.90	0.52
1:a6:129:GLN:NE2	1:a6:159:LYS:O	2.41	0.52
1:C7:136:ASN:ND2	1:AK:99:MET:HE2	2.25	0.52
1:I7:71:ARG:HG3	2:iQ:31:SER:HB3	1.90	0.52
1:I7:98:ASN:HD22	1:I7:99:MET:H	1.56	0.52
1:Q7:71:ARG:HG3	2:XQ:31:SER:HB3	1.90	0.52
1:Q7:359:MET:HE1	2:XQ:24:THR:HG21	1.90	0.52
1:T7:98:ASN:HD22	1:T7:99:MET:N	2.07	0.52
2:X7:24:THR:HG21	1:QQ:359:MET:HE1	1.90	0.52
1:Y7:50:VAL:CG2	1:SQ:137:ASP:HB3	2.39	0.52
1:a7:13:LEU:CD1	1:KE:45:MET:CE	2.86	0.52
1:i7:137:ASP:OD2	1:C8:49:PHE:N	2.42	0.52
1:A8:108:MET:SD	1:QL:367:PRO:HD2	2.49	0.52
1:B8:263:GLY:HA2	2:F8:39:ASP:O	2.09	0.52
1:I8:167:GLU:OE2	1:I8:352:TYR:OH	2.26	0.52
1:L8:98:ASN:HD22	1:L8:99:MET:N	2.07	0.52
1:Y8:321:VAL:CG2	1:Y8:327:PHE:CE2	2.91	0.52
1:Z8:34:THR:HG21	1:b8:122:GLY:H	1.73	0.52
1:g8:13:LEU:HD23	1:BS:45:MET:HG2	1.90	0.52
1:i8:44:THR:CB	1:DD:16:LYS:HZ3	2.20	0.52
1:j8:130:LYS:HE3	1:j8:373:THR:HG21	1.91	0.52
5:E9:36:ALA:O	3:AB:194:ASN:CB	2.57	0.52
3:AB:12:LEU:HD21	3:AF:193:ILE:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:51:ARG:CD	4:BM:32:PHE:CE1	2.90	0.52
3:AC:104:GLN:N	1:KP:359:MET:HE1	2.24	0.52
1:LD:33:TRP:CB	1:DK:382:LYS:CG	2.44	0.52
1:DE:109:LEU:HB3	1:LP:105:GLU:O	2.08	0.52
1:DE:311:ILE:HD12	1:BP:29:TYR:HD2	1.74	0.52
1:FE:29:TYR:C	1:CP:315:ALA:HB1	2.23	0.52
1:FE:130:LYS:HE3	1:FE:373:THR:HG21	1.91	0.52
1:FE:139:ARG:HB2	1:CP:81:PHE:CZ	2.43	0.52
1:dE:63:LEU:HD21	1:dE:154:GLY:HA3	1.91	0.52
2:hE:25:GLU:HG3	1:CR:70:ASN:HD22	1.74	0.52
3:AF:12:LEU:HD21	3:AM:193:ILE:HD11	1.91	0.52
3:AF:292:SER:OG	3:AF:297:LEU:O	2.26	0.52
4:BF:3:ARG:CA	3:AO:194:ASN:HD21	2.22	0.52
1:CG:150:ASN:CG	2:HR:2:TYR:HB3	2.32	0.52
1:CG:359:MET:HE1	2:fL:24:THR:HG21	1.90	0.52
2:EG:50:LYS:HD3	1:QR:75:LEU:HD22	1.92	0.52
2:FG:1:MET:H2	1:SR:150:ASN:HD21	1.57	0.52
2:HG:53:PHE:CD2	1:YL:64:ILE:HG13	2.44	0.52
1:QG:150:ASN:CG	2:HQ:2:TYR:HB3	2.32	0.52
1:gG:70:ASN:HD22	2:HL:25:GLU:HG3	1.74	0.52
3:AH:151:ASN:C	1:AP:135:ASN:ND2	2.59	0.52
1:AJ:85:TYR:HA	1:AJ:122:GLY:HA2	1.90	0.52
1:AJ:116:MET:HG3	1:JS:51:ASN:CG	2.30	0.52
1:AJ:223:GLY:HA2	1:JS:53:TYR:CE2	2.33	0.52
1:BJ:128:LYS:HA	1:BJ:376:ILE:O	2.09	0.52
1:BJ:139:ARG:CD	1:gL:81:PHE:HD2	2.12	0.52
1:BJ:281:LYS:NZ	1:BJ:313:VAL:O	2.40	0.52
1:DJ:71:ARG:NH1	1:DJ:272:SER:O	2.41	0.52
1:KJ:55:PHE:CB	1:AP:120:LEU:HD12	2.34	0.52
1:KJ:145:LEU:HB3	2:MP:15:TYR:O	2.10	0.52
1:AK:103:LYS:HE3	1:LK:304:GLN:HB3	1.92	0.52
1:CK:350:ILE:HG13	1:CK:384:ILE:HG22	1.91	0.52
2:MK:15:TYR:CE1	1:KP:148:ALA:HB1	2.45	0.52
1:CL:98:ASN:HD22	1:CL:99:MET:H	1.56	0.52
1:IL:49:PHE:N	1:KQ:137:ASP:OD2	2.42	0.52
1:IL:64:ILE:HG13	2:fR:53:PHE:CD2	2.44	0.52
2:PL:25:GLU:HG3	1:YR:70:ASN:HD22	1.74	0.52
1:RL:91:ILE:HD12	1:QR:63:LEU:HD11	1.91	0.52
2:XL:53:PHE:CD2	1:QR:64:ILE:HG13	2.44	0.52
5:DN:104:ILE:O	5:DN:108:GLU:HB2	2.09	0.52
1:AP:85:TYR:HA	1:AP:122:GLY:HA2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:197:LEU:HA	1:BP:200:LYS:HB2	1.91	0.52
1:CP:350:ILE:HG13	1:CP:384:ILE:HG22	1.91	0.52
1:CQ:367:PRO:HD2	1:cQ:108:MET:SD	2.49	0.52
1:BQ:137:ASP:HB3	1:gR:50:VAL:CG2	2.39	0.52
1:KQ:263:GLY:HA2	2:NQ:39:ASP:O	2.09	0.52
1:eQ:44:THR:OG1	1:hR:14:VAL:O	2.26	0.52
1:CR:167:GLU:OE2	1:CR:352:TYR:OH	2.26	0.52
1:TR:63:LEU:HD21	1:TR:154:GLY:HA3	1.91	0.52
1:iR:107:LEU:HD12	1:iR:110:LYS:HD3	1.90	0.52
1:jR:130:LYS:HE3	1:jR:373:THR:HG21	1.91	0.52
1:CS:237:ASP:N	1:CS:237:ASP:OD1	2.41	0.52
2:H1:52:SER:O	1:C6:62:LEU:HD11	2.09	0.52
1:I1:62:LEU:HD11	2:PG:52:SER:O	2.09	0.52
1:I1:357:LYS:HD3	2:PG:17:ASP:HB2	1.91	0.52
1:K1:13:LEU:CD1	1:Y6:45:MET:CE	2.87	0.52
1:K1:263:GLY:HA2	2:N1:39:ASP:O	2.09	0.52
1:L1:98:ASN:HD22	1:L1:99:MET:N	2.07	0.52
1:S1:365:HIS:HA	1:S1:372:VAL:HG23	1.91	0.52
2:U1:1:MET:CA	1:CJ:150:ASN:HD21	2.14	0.52
2:W1:52:SER:O	1:Q6:62:LEU:HD11	2.09	0.52
1:X1:24:ASP:HB3	1:I8:125:ILE:HG22	1.89	0.52
1:Z1:28:ASP:N	1:Z1:28:ASP:OD1	2.43	0.52
2:e1:24:THR:CG2	1:I6:359:MET:HE1	2.39	0.52
1:f1:49:PHE:N	1:B3:137:ASP:OD2	2.42	0.52
1:h1:137:ASP:OD2	1:QG:49:PHE:N	2.42	0.52
1:i1:44:THR:OG1	1:J7:14:VAL:O	2.26	0.52
2:m1:25:GLU:HG3	1:CQ:70:ASN:HD22	1.74	0.52
3:A2:134:ASN:HD22	3:AB:48:ARG:NH2	2.08	0.52
1:C3:128:LYS:CD	1:h7:99:MET:SD	2.92	0.52
1:B3:263:GLY:HA2	2:F3:39:ASP:O	2.09	0.52
2:P3:17:ASP:HB2	1:Q8:357:LYS:HD3	1.91	0.52
2:P3:31:SER:HB3	1:Q8:71:ARG:HG3	1.90	0.52
1:T3:98:ASN:HD22	1:T3:99:MET:N	2.07	0.52
2:X3:52:SER:O	1:I8:62:LEU:HD11	2.09	0.52
1:Y3:311:ILE:HD12	1:BK:29:TYR:HD2	1.74	0.52
2:a3:11:MET:HE2	1:BK:372:VAL:HG23	1.91	0.52
1:I4:371:GLU:CD	1:A8:111:ARG:HD3	2.31	0.52
2:P4:52:SER:O	1:C8:62:LEU:HD11	2.09	0.52
1:Q4:64:ILE:HG13	2:n8:53:PHE:CD2	2.44	0.52
1:R4:119:LYS:HE2	1:BS:38:LYS:CG	2.39	0.52
1:S4:137:ASP:OD2	1:IQ:49:PHE:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e4:53:PHE:CD2	1:Y8:64:ILE:HG13	2.44	0.52
1:f4:49:PHE:N	1:B6:137:ASP:OD2	2.42	0.52
1:f4:62:LEU:HD11	2:fG:52:SER:O	2.09	0.52
1:g4:118:THR:HG23	1:CD:53:TYR:CB	2.39	0.52
2:l4:9:SER:HB2	1:DK:363:PRO:CG	2.32	0.52
3:A5:12:LEU:HD21	3:AN:193:ILE:HD11	1.91	0.52
5:C5:266:THR:CG2	5:NI:230:SER:HA	2.40	0.52
1:B6:365:HIS:HA	1:B6:372:VAL:HG23	1.91	0.52
1:Q6:316:VAL:HA	1:CS:31:LYS:NZ	2.22	0.52
1:S6:144:THR:CA	1:AS:82:ILE:HD11	1.83	0.52
1:T6:63:LEU:HD21	1:T6:154:GLY:HA3	1.91	0.52
1:Y6:359:MET:HE1	2:RE:24:THR:CG2	2.39	0.52
1:Z6:108:MET:SD	1:QQ:367:PRO:HD2	2.49	0.52
1:b6:130:LYS:HE3	1:b6:373:THR:HG21	1.91	0.52
2:c6:50:LYS:HD3	1:Y7:75:LEU:HD22	1.92	0.52
1:h6:14:VAL:O	1:gL:44:THR:OG1	2.26	0.52
1:i6:13:LEU:HD13	1:DJ:45:MET:HG2	1.90	0.52
2:n6:24:THR:CG2	1:AE:359:MET:HE1	2.39	0.52
1:C7:75:LEU:HD22	2:EE:50:LYS:HD3	1.91	0.52
1:C7:315:ALA:CB	1:DP:31:LYS:HZ1	2.15	0.52
2:H7:24:THR:CG2	1:gR:359:MET:HE1	2.39	0.52
1:L7:130:LYS:HE3	1:L7:373:THR:HG21	1.91	0.52
2:P7:25:GLU:HG3	1:bQ:70:ASN:HD22	1.74	0.52
1:Q7:45:MET:CE	1:aL:13:LEU:CD1	2.86	0.52
1:Q7:50:VAL:CG2	1:aL:137:ASP:HB3	2.39	0.52
1:S7:365:HIS:HA	1:S7:372:VAL:HG23	1.91	0.52
1:T7:44:THR:OG1	1:LE:14:VAL:O	2.26	0.52
2:U7:44:GLN:OE1	2:U7:44:GLN:HA	2.02	0.52
2:X7:53:PHE:CD2	1:QQ:64:ILE:HG13	2.44	0.52
1:Y7:71:ARG:HG3	2:PR:31:SER:HB3	1.90	0.52
1:Y7:167:GLU:OE2	1:Y7:352:TYR:OH	2.26	0.52
1:a7:137:ASP:HB3	1:KE:50:VAL:CG2	2.39	0.52
2:f7:17:ASP:HB2	1:IR:357:LYS:HD3	1.91	0.52
1:i7:129:GLN:NE2	1:i7:159:LYS:O	2.41	0.52
1:j7:63:LEU:HD21	1:j7:154:GLY:HA3	1.91	0.52
1:B8:13:LEU:CD1	1:AE:45:MET:CE	2.87	0.52
1:D8:98:ASN:HD22	1:D8:99:MET:N	2.07	0.52
1:b8:63:LEU:HD21	1:b8:154:GLY:HA3	1.91	0.52
1:g8:30:SER:OG	1:KS:312:PRO:HG3	2.09	0.52
1:h8:108:MET:SD	1:IQ:367:PRO:HD2	2.49	0.52
3:A9:48:ARG:NH2	3:AA:134:ASN:HD22	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EA:10:TYR:CZ	5:EC:66:TYR:CA	2.80	0.52
5:FA:31:PHE:HB2	5:FC:46:TYR:CE1	2.44	0.52
5:DC:104:ILE:O	5:DC:108:GLU:HB2	2.10	0.52
1:AD:99:MET:HE2	1:YG:136:ASN:ND2	2.25	0.52
1:AD:290:ASN:N	1:AD:326:GLU:OE2	2.38	0.52
1:DD:120:LEU:HD13	1:KS:39:TRP:CG	2.44	0.52
1:BE:105:GLU:HB2	1:BJ:110:LYS:CE	2.29	0.52
1:CE:129:GLN:NE2	1:CE:159:LYS:O	2.41	0.52
2:HE:16:GLU:HG2	1:CP:149:THR:HG21	1.90	0.52
1:TE:99:MET:SD	1:IQ:128:LYS:CD	2.92	0.52
1:cE:263:GLY:HA2	2:fE:39:ASP:O	2.09	0.52
2:hE:17:ASP:HB2	1:CR:357:LYS:HD3	1.91	0.52
3:AF:134:ASN:HD22	3:AM:48:ARG:NH2	2.08	0.52
4:BF:139:ASP:N	4:BF:139:ASP:OD1	2.40	0.52
5:DF:104:ILE:O	5:DF:108:GLU:HB2	2.10	0.52
1:CG:357:LYS:HD3	2:fL:17:ASP:HB2	1.91	0.52
1:aG:13:LEU:HD13	1:DK:45:MET:HG2	1.90	0.52
2:nG:24:THR:HG21	1:CL:359:MET:HE1	1.90	0.52
4:BI:3:ARG:CA	3:AN:194:ASN:HD21	2.22	0.52
5:FI:31:PHE:HB2	5:FO:46:TYR:CE1	2.44	0.52
1:CK:53:TYR:CB	1:hR:118:THR:HG23	2.38	0.52
1:DK:71:ARG:NH1	1:DK:272:SER:O	2.41	0.52
1:AL:14:VAL:O	1:LL:44:THR:OG1	2.26	0.52
1:LL:63:LEU:HD21	1:LL:154:GLY:HA3	1.91	0.52
2:ML:45:ILE:HG13	2:ML:46:HIS:H	1.66	0.52
1:SL:365:HIS:HA	1:SL:372:VAL:HG23	1.91	0.52
2:XL:24:THR:HG21	1:QR:359:MET:HE1	1.90	0.52
3:AM:112:ILE:HB	2:LS:19:ARG:CA	2.32	0.52
1:DP:153:LEU:HD21	2:mR:3:GLU:C	2.34	0.52
1:KP:134:ASN:ND2	1:KP:137:ASP:OD1	2.42	0.52
1:bQ:167:GLU:OE2	1:bQ:352:TYR:OH	2.26	0.52
1:RR:34:THR:HG21	1:TR:122:GLY:H	1.73	0.52
1:aR:107:LEU:HD12	1:aR:110:LYS:HD3	1.90	0.52
1:iR:365:HIS:HA	1:iR:372:VAL:HG23	1.91	0.52
1:CS:82:ILE:O	1:JS:59:ASN:ND2	2.42	0.52
1:C1:75:LEU:HD22	2:b4:50:LYS:HD3	1.92	0.52
1:C1:359:MET:HE1	2:H6:24:THR:CG2	2.39	0.52
1:B1:137:ASP:OD2	1:Y8:49:PHE:N	2.42	0.52
2:E1:50:LYS:HD3	1:gG:75:LEU:HD22	1.91	0.52
2:H1:24:THR:CG2	1:C6:359:MET:HE1	2.39	0.52
1:I1:128:LYS:CD	1:JG:99:MET:SD	2.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P1:25:GLU:HG3	1:IG:70:ASN:HD22	1.74	0.52
1:Q1:49:PHE:N	1:KG:137:ASP:OD2	2.42	0.52
1:R1:105:GLU:CA	1:AS:109:LEU:HD11	2.25	0.52
1:R1:116:MET:SD	1:CJ:54:LEU:HD23	2.50	0.52
1:S1:137:ASP:HB3	1:Q8:50:VAL:CG2	2.39	0.52
1:T1:20:SER:CB	1:BJ:47:GLU:OE1	2.57	0.52
1:T1:130:LYS:HE3	1:T1:373:THR:HG21	1.91	0.52
2:W1:31:SER:HB3	1:Q6:71:ARG:HG3	1.90	0.52
2:W1:53:PHE:CD2	1:Q6:64:ILE:HG13	2.44	0.52
1:X1:321:VAL:CG2	1:X1:327:PHE:CD2	2.92	0.52
1:Z1:13:LEU:CD1	1:IR:45:MET:CE	2.86	0.52
1:f1:45:MET:CE	1:B3:13:LEU:CD1	2.86	0.52
1:f1:63:LEU:HD11	1:AQ:91:ILE:HD12	1.91	0.52
1:i1:98:ASN:HD22	1:i1:99:MET:N	2.07	0.52
2:m1:53:PHE:CD2	1:CQ:64:ILE:HG13	2.44	0.52
1:C3:49:PHE:N	1:SG:137:ASP:OD2	2.42	0.52
1:C3:367:PRO:HD2	1:A4:108:MET:SD	2.49	0.52
1:I3:50:VAL:CG2	1:SL:137:ASP:HB3	2.39	0.52
1:I3:71:ARG:HG3	2:X8:31:SER:HB3	1.90	0.52
1:I3:357:LYS:HD3	2:X8:17:ASP:HB2	1.91	0.52
1:I3:360:LEU:HD22	2:X8:22:LYS:HG2	1.91	0.52
1:Q3:359:MET:HE1	2:P8:24:THR:CG2	2.39	0.52
1:S3:263:GLY:HA2	2:V3:39:ASP:O	2.09	0.52
1:T3:130:LYS:HE3	1:T3:373:THR:HG21	1.91	0.52
1:B4:365:HIS:HA	1:B4:372:VAL:HG23	1.91	0.52
1:J4:108:MET:SD	1:AE:367:PRO:HD2	2.49	0.52
2:P4:17:ASP:HB2	1:C8:357:LYS:HD3	1.91	0.52
1:Q4:150:ASN:CG	2:fR:2:TYR:HB3	2.32	0.52
1:T4:20:SER:CB	1:AS:47:GLU:OE1	2.57	0.52
1:Y4:64:ILE:HD11	1:Z4:88:GLU:HG3	1.89	0.52
1:f4:64:ILE:HG13	2:fG:53:PHE:CD2	2.44	0.52
1:f4:75:LEU:HD22	2:EL:50:LYS:HD3	1.92	0.52
1:g4:14:VAL:O	1:DL:44:THR:OG1	2.26	0.52
1:g4:116:MET:SD	1:CD:54:LEU:HD23	2.50	0.52
2:l4:3:GLU:C	1:DK:153:LEU:HD21	2.34	0.52
2:l4:24:THR:CG2	1:YG:359:MET:HE1	2.39	0.52
3:A5:48:ARG:NH2	3:AI:134:ASN:HD22	2.08	0.52
3:A5:134:ASN:HD22	3:AN:48:ARG:NH2	2.08	0.52
3:A5:193:ILE:HD11	3:AI:12:LEU:HD21	1.91	0.52
5:F5:27:ARG:HD3	3:AN:8:LEU:HA	1.92	0.52
5:F5:101:ILE:HA	5:F5:104:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F5:126:THR:HA	5:F5:129:LYS:HE3	1.91	0.52
1:C6:50:VAL:CG2	1:iG:137:ASP:HB3	2.39	0.52
2:E6:44:GLN:OE1	2:E6:44:GLN:HA	2.02	0.52
1:I6:167:GLU:OE2	1:I6:352:TYR:OH	2.26	0.52
1:Q6:30:SER:OG	1:LJ:312:PRO:HG3	2.10	0.52
1:R6:34:THR:HG21	1:T6:122:GLY:H	1.73	0.52
1:T6:44:THR:OG1	1:JG:14:VAL:O	2.26	0.52
1:Z6:14:VAL:O	1:LQ:44:THR:OG1	2.26	0.52
1:h6:34:THR:HG21	1:j6:122:GLY:H	1.73	0.52
1:C7:321:VAL:CG2	1:C7:327:PHE:CD2	2.92	0.52
1:B7:28:ASP:OD1	1:B7:28:ASP:N	2.43	0.52
1:I7:359:MET:HE1	2:iQ:24:THR:HG21	1.90	0.52
1:K7:137:ASP:OD2	1:CQ:49:PHE:N	2.42	0.52
1:K7:365:HIS:HA	1:K7:372:VAL:HG23	1.91	0.52
2:M7:50:LYS:HD3	1:Y8:75:LEU:HD22	1.92	0.52
1:Q7:54:LEU:HD11	1:YL:116:MET:HE1	0.78	0.52
1:Y7:33:TRP:CZ2	1:QQ:177:ASP:OD2	2.63	0.52
1:Z7:259:PHE:HE1	1:IR:259:PHE:HE1	1.48	0.52
1:b7:98:ASN:HD22	1:b7:99:MET:N	2.07	0.52
2:k7:50:LYS:HD3	1:QG:75:LEU:HD22	1.92	0.52
1:K8:365:HIS:HA	1:K8:372:VAL:HG23	1.91	0.52
1:L8:63:LEU:HD21	1:L8:154:GLY:HA3	1.91	0.52
1:b8:44:THR:OG1	1:AR:14:VAL:O	2.26	0.52
5:CA:266:THR:CG2	5:NC:230:SER:HA	2.40	0.52
4:BB:3:ARG:CA	3:AM:194:ASN:HD21	2.22	0.52
5:EB:36:ALA:O	3:AM:194:ASN:CB	2.58	0.52
5:FC:31:PHE:HB2	5:FH:46:TYR:CE1	2.44	0.52
5:FC:101:ILE:HA	5:FC:104:ILE:HG12	1.91	0.52
2:MD:11:MET:CE	1:KK:372:VAL:C	2.77	0.52
1:DE:98:ASN:HD22	1:DE:99:MET:N	2.07	0.52
1:DE:116:MET:SD	1:BP:54:LEU:HD21	2.49	0.52
1:BE:119:LYS:HG3	1:CP:36:GLY:HA3	1.91	0.52
1:UE:129:GLN:NE2	1:UE:159:LYS:O	2.41	0.52
1:cE:137:ASP:HB3	1:CG:50:VAL:CG2	2.39	0.52
1:CG:70:ASN:HD22	2:fL:25:GLU:HG3	1.74	0.52
2:HG:25:GLU:HG3	1:YL:70:ASN:HD22	1.74	0.52
1:LG:130:LYS:HE3	1:LG:373:THR:HG21	1.91	0.52
1:QG:98:ASN:HD22	1:QG:99:MET:H	1.56	0.52
1:YG:208:LEU:HD12	1:YG:391:ILE:HD11	1.89	0.52
2:nG:17:ASP:HB2	1:CL:357:LYS:HD3	1.91	0.52
1:BJ:54:LEU:HD21	1:gL:116:MET:SD	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:372:VAL:HG23	2:iL:11:MET:HE2	1.91	0.52
1:DJ:120:LEU:HD13	1:LP:39:TRP:CG	2.44	0.52
1:KJ:370:ASP:HB3	1:KP:99:MET:HE1	1.91	0.52
1:CK:38:LYS:CG	1:hR:119:LYS:HE2	2.39	0.52
1:CK:238:ILE:HA	1:CK:346:ASP:HA	1.91	0.52
1:KK:240:ILE:HD11	1:KK:270:VAL:HG13	1.90	0.52
1:LK:39:TRP:CG	1:DP:120:LEU:HD13	2.43	0.52
2:MK:15:TYR:C	1:KP:145:LEU:HD23	2.26	0.52
1:BL:365:HIS:HA	1:BL:372:VAL:HG23	1.91	0.52
1:IL:63:LEU:HD11	1:ZR:91:ILE:HD12	1.91	0.52
1:LL:98:ASN:HD22	1:LL:99:MET:N	2.07	0.52
2:PL:52:SER:O	1:YR:62:LEU:HD11	2.09	0.52
2:PL:53:PHE:CD2	1:YR:64:ILE:HG13	2.44	0.52
2:XL:17:ASP:HB2	1:QR:357:LYS:HD3	1.91	0.52
2:XL:52:SER:O	1:QR:62:LEU:HD11	2.09	0.52
1:YL:45:MET:CE	1:SR:13:LEU:CD1	2.86	0.52
1:YL:75:LEU:HD22	2:UQ:50:LYS:HD3	1.92	0.52
4:BN:4:TYR:H	5:EN:36:ALA:HB2	1.73	0.52
3:AO:292:SER:OG	3:AO:297:LEU:O	2.26	0.52
1:KP:240:ILE:HD11	1:KP:270:VAL:HG13	1.90	0.52
1:C1:22:LEU:HB3	1:dQ:47:GLU:HG2	1.90	0.52
1:C1:50:VAL:CG2	1:dQ:137:ASP:HB3	2.39	0.52
1:C1:62:LEU:HD11	2:H6:52:SER:O	2.09	0.52
1:C1:63:LEU:HD11	1:A6:91:ILE:HD12	1.91	0.52
1:C1:64:ILE:HG13	2:H6:53:PHE:CD2	2.44	0.52
1:K1:137:ASP:OD2	1:Y6:49:PHE:N	2.42	0.52
2:P1:24:THR:CG2	1:IG:359:MET:HE1	2.39	0.52
1:Q1:38:LYS:HD3	1:IG:222:SER:CA	2.35	0.52
1:Q1:50:VAL:CG2	1:KG:137:ASP:HB3	2.39	0.52
1:T1:98:ASN:HD22	1:T1:99:MET:N	2.07	0.52
2:W1:3:GLU:C	1:CS:153:LEU:HD21	2.34	0.52
2:W1:17:ASP:HB2	1:Q6:357:LYS:HD3	1.91	0.52
2:W1:24:THR:HG21	1:Q6:359:MET:HE1	1.90	0.52
1:X1:358:GLY:HA2	2:P6:18:SER:HB2	1.92	0.52
1:Z1:137:ASP:HB3	1:IR:50:VAL:CG2	2.39	0.52
2:e1:52:SER:O	1:I6:62:LEU:HD11	2.09	0.52
1:f1:360:LEU:HD23	2:HQ:22:LYS:HG2	1.88	0.52
2:m1:52:SER:O	1:CQ:62:LEU:HD11	2.09	0.52
3:A2:48:ARG:NH2	3:A9:134:ASN:HD22	2.07	0.52
5:E2:26:GLU:HG2	5:E2:27:ARG:HD2	1.92	0.52
1:A3:14:VAL:O	1:DQ:44:THR:OG1	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D3:44:THR:OG1	1:BE:14:VAL:O	2.26	0.52
2:H3:53:PHE:CD2	1:g7:64:ILE:HG13	2.44	0.52
1:I3:177:ASP:OD2	1:I4:33:TRP:CZ2	2.63	0.52
1:J3:91:ILE:HD12	1:Q8:63:LEU:HD11	1.91	0.52
1:R3:14:VAL:O	1:dE:44:THR:OG1	2.26	0.52
1:R3:91:ILE:HD12	1:I8:63:LEU:HD11	1.91	0.52
1:S3:150:ASN:HD21	2:fE:1:MET:H3	1.56	0.52
2:X3:24:THR:CG2	1:I8:359:MET:HE1	2.39	0.52
1:C4:128:LYS:CD	1:RG:99:MET:SD	2.92	0.52
1:I4:70:ASN:HD22	2:H8:25:GLU:HG3	1.74	0.52
1:I4:367:PRO:HD2	1:R8:108:MET:SD	2.49	0.52
1:K4:107:LEU:HD12	1:K4:110:LYS:HD3	1.90	0.52
1:K4:137:ASP:OD2	1:QL:49:PHE:N	2.42	0.52
1:K4:137:ASP:HB3	1:QL:50:VAL:CG2	2.39	0.52
1:L4:130:LYS:HE3	1:L4:373:THR:HG21	1.91	0.52
1:Q4:75:LEU:HD22	2:WE:50:LYS:HD3	1.92	0.52
1:Q4:177:ASP:OD2	1:IQ:33:TRP:CZ2	2.63	0.52
1:Q4:208:LEU:HD12	1:Q4:391:ILE:HD11	1.89	0.52
1:R4:119:LYS:HG3	1:BS:36:GLY:HA3	1.91	0.52
1:S4:105:GLU:O	1:KS:109:LEU:HD11	2.09	0.52
1:T4:365:HIS:CD2	2:GS:10:MET:CE	2.70	0.52
1:X4:33:TRP:CZ2	1:CR:177:ASP:OD2	2.63	0.52
1:X4:359:MET:HE1	2:f8:24:THR:CG2	2.39	0.52
2:e4:52:SER:O	1:Y8:62:LEU:HD11	2.09	0.52
1:f4:359:MET:HE1	2:fG:24:THR:HG21	1.90	0.52
1:f4:371:GLU:CD	1:ZG:111:ARG:HD3	2.31	0.52
1:h4:106:GLU:HA	1:LD:109:LEU:CD1	2.40	0.52
1:i4:63:LEU:HD21	1:i4:154:GLY:HA3	1.91	0.52
2:j4:3:GLU:O	1:CD:153:LEU:HD11	2.07	0.52
2:l4:25:GLU:HG3	1:YG:70:ASN:HD22	1.74	0.52
3:A5:194:ASN:HD21	4:BO:3:ARG:CA	2.22	0.52
4:B5:30:LEU:N	5:EO:64:TRP:HE1	2.00	0.52
1:C6:75:LEU:HD22	2:cG:50:LYS:HD3	1.92	0.52
2:E6:50:LYS:HD3	1:bQ:75:LEU:HD22	1.91	0.52
1:I6:321:VAL:CG2	1:I6:327:PHE:CD2	2.92	0.52
1:Q6:136:ASN:ND2	1:AJ:99:MET:HE2	2.25	0.52
1:Y6:367:PRO:HD2	1:JG:108:MET:SD	2.49	0.52
1:Y6:371:GLU:CD	1:LE:111:ARG:HD3	2.32	0.52
1:a6:137:ASP:OD2	1:SE:49:PHE:N	2.42	0.52
2:d6:1:MET:H3	1:a7:150:ASN:HD21	1.56	0.52
2:f6:22:LYS:HG2	1:KE:360:LEU:HD23	1.88	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:13:LEU:HD23	1:CP:45:MET:HG2	1.90	0.52
1:g6:360:LEU:HD23	2:JE:22:LYS:HG2	1.88	0.52
1:i6:45:MET:CE	1:DJ:39:TRP:CZ3	2.92	0.52
1:C7:63:LEU:HD11	1:hR:91:ILE:HD12	1.91	0.52
1:C7:357:LYS:HD3	2:mR:17:ASP:HB2	1.91	0.52
1:C7:358:GLY:HA2	2:mR:18:SER:HB2	1.92	0.52
1:A7:91:ILE:HD12	1:gR:63:LEU:HD11	1.91	0.52
1:I7:62:LEU:HD11	2:iQ:52:SER:O	2.09	0.52
1:I7:71:ARG:NH1	1:I7:272:SER:O	2.43	0.52
1:I7:357:LYS:HD3	2:iQ:17:ASP:HB2	1.91	0.52
1:J7:99:MET:SD	1:bQ:128:LYS:CD	2.92	0.52
1:K7:47:GLU:HG2	1:CQ:22:LEU:HB3	1.90	0.52
1:L7:44:THR:OG1	1:Z8:14:VAL:O	2.26	0.52
1:Q7:98:ASN:HD22	1:Q7:99:MET:H	1.56	0.52
1:R7:259:PHE:HE1	1:QQ:259:PHE:HE1	1.48	0.52
2:X7:18:SER:HB2	1:QQ:358:GLY:HA2	1.92	0.52
1:Y7:45:MET:CE	1:SQ:13:LEU:CD1	2.86	0.52
1:Z7:108:MET:SD	1:I8:367:PRO:HD2	2.49	0.52
1:a7:107:LEU:HD12	1:a7:110:LYS:HD3	1.90	0.52
2:f7:53:PHE:O	1:IR:62:LEU:HD11	2.03	0.52
1:g7:50:VAL:CG2	1:CE:137:ASP:HB3	2.39	0.52
1:i7:365:HIS:HA	1:i7:372:VAL:HG23	1.91	0.52
1:C8:177:ASP:OD2	1:AE:33:TRP:CZ2	2.63	0.52
1:Q8:177:ASP:OD2	1:IG:33:TRP:CZ2	2.63	0.52
1:a8:47:GLU:HG2	1:bQ:22:LEU:HB3	1.90	0.52
1:g8:45:MET:HG2	1:BS:14:VAL:CA	2.39	0.52
1:i8:365:HIS:HA	1:i8:372:VAL:HG23	1.91	0.52
4:B9:32:PHE:CE1	5:FC:51:ARG:CD	2.90	0.52
5:E9:26:GLU:HG2	5:E9:27:ARG:HD2	1.92	0.52
3:AA:242:ILE:HG22	3:AC:270:ASN:HD22	1.73	0.52
3:AA:292:SER:OG	3:AA:297:LEU:O	2.26	0.52
1:AD:145:LEU:HG	3:AF:37:GLU:HB2	1.92	0.52
1:AD:315:ALA:HA	1:KK:30:SER:CA	2.37	0.52
2:FD:3:GLU:O	1:KS:153:LEU:HD21	2.01	0.52
1:KD:142:PHE:O	1:IS:82:ILE:C	2.47	0.52
1:KD:367:PRO:O	1:IS:377:HIS:CE1	2.62	0.52
1:LD:54:LEU:HD13	1:DK:116:MET:HE1	1.90	0.52
2:ND:9:SER:HB2	1:YG:363:PRO:HG2	1.91	0.52
1:AE:321:VAL:CG2	1:AE:327:PHE:CD2	2.92	0.52
1:FE:20:SER:HB2	1:BP:47:GLU:OE1	2.09	0.52
1:SE:62:LEU:HD11	2:PQ:52:SER:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SE:64:ILE:HG13	2:PQ:53:PHE:CD2	2.44	0.52
1:SE:70:ASN:HD22	2:PQ:25:GLU:HG3	1.74	0.52
1:SE:357:LYS:HD3	2:PQ:17:ASP:HB2	1.91	0.52
1:UE:365:HIS:HA	1:UE:372:VAL:HG23	1.91	0.52
1:VE:63:LEU:HD21	1:VE:154:GLY:HA3	1.91	0.52
1:aE:367:PRO:HD2	1:RG:108:MET:SD	2.49	0.52
3:AF:169:LEU:HD21	3:AO:203:GLY:HA3	1.91	0.52
1:CG:128:LYS:CD	1:ZL:99:MET:SD	2.92	0.52
1:CG:358:GLY:HA2	2:fL:18:SER:HB2	1.92	0.52
1:gG:128:LYS:CD	1:AL:99:MET:SD	2.92	0.52
1:iG:263:GLY:HA2	2:lG:39:ASP:O	2.09	0.52
5:DI:105:ILE:O	5:DI:109:PHE:HB2	2.10	0.52
5:EI:140:ASP:HB2	5:CI:139:LYS:HD2	1.84	0.52
1:AJ:103:LYS:HE3	1:LJ:304:GLN:HB3	1.92	0.52
1:DJ:82:ILE:O	1:KJ:59:ASN:ND2	2.42	0.52
1:DJ:166:LEU:HA	1:DJ:169:LYS:HG2	1.90	0.52
1:KK:134:ASN:ND2	1:KK:137:ASP:OD1	2.42	0.52
1:CL:71:ARG:NH1	1:CL:272:SER:O	2.43	0.52
1:BL:13:LEU:CD1	1:YR:45:MET:CE	2.86	0.52
1:BL:47:GLU:HG2	1:YR:22:LEU:HB3	1.90	0.52
1:BL:137:ASP:OD2	1:YR:49:PHE:N	2.42	0.52
1:IL:45:MET:CE	1:KQ:13:LEU:CD1	2.86	0.52
1:IL:70:ASN:HD22	2:fR:25:GLU:HG3	1.74	0.52
2:PL:18:SER:HB2	1:YR:358:GLY:HA2	1.92	0.52
1:QL:70:ASN:HD22	2:XR:25:GLU:HG3	1.74	0.52
2:XL:31:SER:HB3	1:QR:71:ARG:HG3	1.90	0.52
2:hL:44:GLN:HA	2:hL:44:GLN:OE1	2.02	0.52
5:EM:140:ASP:N	5:CM:139:LYS:HB3	2.25	0.52
5:FM:101:ILE:HA	5:FM:104:ILE:HG12	1.91	0.52
1:DP:354:ARG:NH1	2:FP:24:THR:OG1	2.43	0.52
1:BQ:107:LEU:HD12	1:BQ:110:LYS:HD3	1.90	0.52
1:JQ:14:VAL:O	1:bR:44:THR:OG1	2.26	0.52
1:LQ:98:ASN:HD22	1:LQ:99:MET:N	2.07	0.52
1:YQ:116:MET:SD	1:AS:54:LEU:HD21	2.49	0.52
1:YQ:311:ILE:HD12	1:AS:29:TYR:HD2	1.74	0.52
1:YQ:375:TRP:CE3	1:AS:367:PRO:HG2	2.45	0.52
1:ZR:34:THR:HG21	1:bR:122:GLY:H	1.73	0.52
1:CS:354:ARG:NH1	2:ES:24:THR:OG1	2.43	0.52
1:JS:55:PHE:O	1:JS:57:LYS:NZ	2.41	0.52
1:C1:258:THR:HB	1:B1:256:ALA:HB1	1.92	0.52
1:A1:91:ILE:HD12	1:C6:63:LEU:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E1:44:GLN:OE1	2:E1:44:GLN:HA	2.02	0.52
1:I1:50:VAL:CG2	1:UE:137:ASP:HB3	2.39	0.52
1:I1:62:LEU:HD11	2:PG:53:PHE:O	2.03	0.52
1:I1:177:ASP:OD2	1:Y6:33:TRP:CZ2	2.63	0.52
1:Q1:33:TRP:CZ2	1:IG:177:ASP:OD2	2.63	0.52
1:Q1:70:ASN:HD22	2:X6:25:GLU:HG3	1.74	0.52
1:Q1:71:ARG:NH1	1:Q1:272:SER:O	2.43	0.52
1:Q1:321:VAL:CG2	1:Q1:327:PHE:CD2	2.92	0.52
1:T1:20:SER:HB2	1:BJ:47:GLU:OE1	2.09	0.52
2:W1:24:THR:CG2	1:Q6:359:MET:HE1	2.39	0.52
1:X1:63:LEU:HD11	1:J6:91:ILE:HD12	1.91	0.52
1:X1:357:LYS:HD3	2:P6:17:ASP:HB2	1.91	0.52
1:Y1:91:ILE:HD12	1:I6:63:LEU:HD11	1.91	0.52
1:f1:70:ASN:HD22	2:HQ:25:GLU:HG3	1.74	0.52
1:g1:14:VAL:O	1:D4:44:THR:OG1	2.26	0.52
2:m1:18:SER:HB2	1:CQ:358:GLY:HA2	1.92	0.52
3:A2:114:PHE:HE1	2:GK:25:GLU:HB2	1.72	0.52
1:C3:33:TRP:CZ2	1:QG:177:ASP:OD2	2.63	0.52
1:C3:370:ASP:OD1	1:QG:361:LYS:NZ	2.43	0.52
1:D3:98:ASN:HD22	1:D3:99:MET:N	2.07	0.52
2:H3:17:ASP:HB2	1:g7:357:LYS:HD3	1.91	0.52
2:H3:52:SER:O	1:g7:62:LEU:HD11	2.09	0.52
1:I3:63:LEU:HD11	1:R8:91:ILE:HD12	1.91	0.52
2:P3:2:TYR:HB3	1:IG:150:ASN:CG	2.32	0.52
2:P3:22:LYS:HG2	1:Q8:360:LEU:HD22	1.91	0.52
1:Q3:49:PHE:N	1:Z4:137:ASP:OD2	2.42	0.52
1:Q3:71:ARG:HG3	2:P8:31:SER:HB3	1.90	0.52
1:Q3:98:ASN:HD22	1:Q3:99:MET:H	1.56	0.52
1:Q3:177:ASP:OD2	1:CR:33:TRP:CZ2	2.63	0.52
1:S3:13:LEU:CD1	1:CR:45:MET:CE	2.87	0.52
1:Y3:63:LEU:HD21	1:Y3:154:GLY:HA3	1.91	0.52
1:Y3:143:GLN:HB3	1:ZG:57:LYS:HB3	1.92	0.52
1:b3:82:ILE:HG23	1:BD:142:PHE:O	2.08	0.52
2:c3:50:LYS:HD3	1:g8:75:LEU:HD22	1.92	0.52
2:d3:2:TYR:N	1:BD:150:ASN:HD21	2.08	0.52
1:J4:14:VAL:O	1:TR:44:THR:OG1	2.26	0.52
1:Q4:361:LYS:NZ	1:IQ:370:ASP:OD1	2.43	0.52
1:R4:87:GLU:OE1	1:BS:55:PHE:HB3	2.09	0.52
2:W4:3:GLU:C	1:DD:153:LEU:HD21	2.34	0.52
1:X4:50:VAL:CG2	1:BR:137:ASP:HB3	2.39	0.52
1:X4:70:ASN:HD22	2:f8:25:GLU:HG3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:367:PRO:HD2	1:bE:108:MET:SD	2.49	0.52
1:Y4:57:LYS:HB3	1:L8:143:GLN:HB3	1.92	0.52
2:e4:25:GLU:HG3	1:Y8:70:ASN:HD22	1.74	0.52
1:f4:63:LEU:HD11	1:ZG:91:ILE:HD12	1.91	0.52
1:f4:70:ASN:HD22	2:fG:25:GLU:HG3	1.74	0.52
1:h4:47:GLU:HG2	1:gG:22:LEU:HB3	1.90	0.52
1:i4:20:SER:CB	1:BD:47:GLU:OE1	2.57	0.52
1:C6:22:LEU:HB3	1:iG:47:GLU:HG2	1.90	0.52
1:I6:71:ARG:NH1	1:I6:272:SER:O	2.43	0.52
1:J6:34:THR:HG21	1:L6:122:GLY:H	1.73	0.52
1:L6:63:LEU:HD21	1:L6:154:GLY:HA3	1.91	0.52
1:Y6:71:ARG:NH1	1:Y6:272:SER:O	2.43	0.52
1:Y6:321:VAL:CG2	1:Y6:327:PHE:CD2	2.92	0.52
1:a6:137:ASP:HB3	1:SE:50:VAL:CG2	2.39	0.52
1:g6:357:LYS:HD3	2:JE:17:ASP:HB2	1.91	0.52
1:h6:108:MET:SD	1:g7:367:PRO:HD2	2.49	0.52
1:h6:111:ARG:HD3	1:AE:371:GLU:CD	2.32	0.52
1:C7:70:ASN:HD22	2:mR:25:GLU:HG3	1.74	0.52
2:H7:52:SER:O	1:gR:62:LEU:HD11	2.09	0.52
1:I7:177:ASP:OD2	1:CQ:33:TRP:CZ2	2.63	0.52
1:K7:13:LEU:CD1	1:CQ:45:MET:CE	2.86	0.52
1:Q7:62:LEU:HD11	2:XQ:52:SER:O	2.09	0.52
1:Y7:360:LEU:HD22	2:PR:22:LYS:HG2	1.91	0.52
1:Z7:34:THR:HG21	1:b7:122:GLY:H	1.73	0.52
1:Z7:91:ILE:HD12	1:IR:63:LEU:HD11	1.91	0.52
1:g7:49:PHE:N	1:CE:137:ASP:OD2	2.42	0.52
1:j7:98:ASN:HD22	1:j7:99:MET:N	2.07	0.52
1:B8:137:ASP:OD2	1:AE:49:PHE:N	2.42	0.52
1:I8:33:TRP:CZ2	1:IR:177:ASP:OD2	2.63	0.52
1:j8:63:LEU:HD21	1:j8:154:GLY:HA3	1.91	0.52
4:B9:250:ILE:CG1	3:AB:208:LYS:O	2.57	0.52
5:E9:140:ASP:HB2	5:C9:139:LYS:HD2	1.84	0.52
5:E9:140:ASP:N	5:C9:139:LYS:HB3	2.25	0.52
5:C9:266:THR:CG2	5:NA:230:SER:HA	2.40	0.52
3:AA:197:VAL:CB	5:EH:37:ASP:CB	2.88	0.52
5:DA:105:ILE:O	5:DA:109:PHE:HB2	2.10	0.52
5:DA:116:LEU:HD22	5:EA:116:LEU:HD13	1.92	0.52
5:EA:26:GLU:HG2	5:EA:27:ARG:HD2	1.92	0.52
3:AC:204:ALA:O	3:AH:181:SER:OG	2.18	0.52
1:AD:103:LYS:HE3	1:LD:304:GLN:HB3	1.92	0.52
1:CD:14:VAL:CA	1:YG:45:MET:HG2	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:58:ILE:CA	1:KS:55:PHE:HE2	2.21	0.52
1:KD:153:LEU:CD2	2:LS:6:ASN:HA	2.39	0.52
2:GE:11:MET:HE2	1:BP:372:VAL:HG23	1.91	0.52
1:AE:71:ARG:NH1	1:AE:272:SER:O	2.43	0.52
1:ME:137:ASP:HB3	1:QQ:50:VAL:CG2	2.39	0.52
1:SE:259:PHE:HE1	1:JQ:259:PHE:HE1	1.48	0.52
2:ZE:52:SER:O	1:IQ:62:LEU:HD11	2.09	0.52
1:aE:361:LYS:NZ	1:CG:370:ASP:OD1	2.43	0.52
1:ZG:64:ILE:HD11	1:aG:88:GLU:HG3	1.89	0.52
1:bG:130:LYS:HE3	1:bG:373:THR:HG21	1.91	0.52
2:nG:52:SER:O	1:CL:62:LEU:HD11	2.09	0.52
5:DH:104:ILE:O	5:DH:108:GLU:HB2	2.09	0.52
5:EI:26:GLU:HG2	5:EI:27:ARG:HD2	1.92	0.52
1:AJ:377:HIS:CE1	1:JS:367:PRO:O	2.62	0.52
1:BJ:367:PRO:HG2	1:gL:375:TRP:CE3	2.45	0.52
1:KJ:28:ASP:C	1:KP:98:ASN:HB3	2.32	0.52
1:LJ:57:LYS:NZ	1:JS:61:THR:HG21	2.24	0.52
1:LJ:128:LYS:NZ	1:LJ:303:TYR:OH	2.35	0.52
1:LJ:169:LYS:HG3	1:LJ:172:ARG:HH21	1.75	0.52
1:LJ:369:PHE:HB2	1:AS:108:MET:HE2	1.91	0.52
1:AK:81:PHE:HD2	1:KP:139:ARG:HH11	1.27	0.52
1:DK:265:ASP:HB2	2:GK:41:TYR:HA	1.92	0.52
1:LK:109:LEU:CD1	1:iR:106:GLU:HA	2.40	0.52
1:CL:177:ASP:OD2	1:YR:33:TRP:CZ2	2.63	0.52
1:CL:208:LEU:HD12	1:CL:391:ILE:HD11	1.89	0.52
1:BL:137:ASP:HB3	1:YR:50:VAL:CG2	2.39	0.52
1:IL:360:LEU:HD23	2:fR:22:LYS:HG2	1.88	0.52
1:QL:71:ARG:NH1	1:QL:272:SER:O	2.43	0.52
1:TL:130:LYS:HE3	1:TL:373:THR:HG21	1.91	0.52
1:YL:49:PHE:N	1:SR:137:ASP:OD2	2.42	0.52
1:YL:208:LEU:HD12	1:YL:391:ILE:HD11	1.89	0.52
1:bL:98:ASN:HD22	1:bL:99:MET:N	2.07	0.52
3:AM:114:PHE:HE1	2:LS:12:GLY:C	2.17	0.52
3:AO:36:LEU:CD2	1:IS:145:LEU:HD12	2.07	0.52
3:AO:36:LEU:HB2	1:IS:145:LEU:HD12	1.92	0.52
1:SQ:107:LEU:HD12	1:SQ:110:LYS:HD3	1.90	0.52
1:TQ:130:LYS:HE3	1:TQ:373:THR:HG21	1.91	0.52
1:dQ:263:GLY:HA2	2:gQ:39:ASP:O	2.09	0.52
1:CR:258:THR:HB	1:BR:256:ALA:HB1	1.92	0.52
1:IR:167:GLU:OE2	1:IR:352:TYR:OH	2.26	0.52
1:bR:63:LEU:HD21	1:bR:154:GLY:HA3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gR:71:ARG:NH1	1:gR:272:SER:O	2.43	0.52
1:gR:167:GLU:OE2	1:gR:352:TYR:OH	2.26	0.52
1:gR:321:VAL:CG2	1:gR:327:PHE:CD2	2.92	0.52
1:hR:34:THR:HG21	1:jR:122:GLY:H	1.73	0.52
1:KS:169:LYS:HG3	1:KS:172:ARG:HH21	1.75	0.52
1:C1:150:ASN:CG	2:P7:2:TYR:HB3	2.32	0.52
2:H1:53:PHE:CD2	1:C6:64:ILE:HG13	2.44	0.52
1:Q1:360:LEU:HD22	2:X6:22:LYS:HG2	1.91	0.52
1:T1:370:ASP:CG	1:CJ:361:LYS:HZ1	2.09	0.52
1:Y1:111:ARG:HD3	1:I6:371:GLU:CD	2.31	0.52
1:f1:71:ARG:NH1	1:f1:272:SER:O	2.43	0.52
1:i1:143:GLN:HB3	1:J7:57:LYS:HB3	1.92	0.52
1:i1:240:ILE:HG12	1:i1:344:ILE:HG12	1.92	0.52
1:i1:351:LYS:NZ	1:D4:60:GLU:OE2	2.43	0.52
3:A2:12:LEU:HD21	3:AB:193:ILE:HD11	1.91	0.52
4:B2:137:ASN:HA	4:BB:202:GLN:HB3	1.90	0.52
4:B2:202:GLN:HB3	4:B9:137:ASN:HA	1.90	0.52
1:C3:321:VAL:CG2	1:C3:327:PHE:CD2	2.92	0.52
1:A3:91:ILE:HD12	1:g7:63:LEU:HD11	1.91	0.52
1:D3:63:LEU:HD21	1:D3:154:GLY:HA3	1.91	0.52
1:D3:179:SER:HG	1:D3:341:TYR:HH	1.57	0.52
2:E3:45:ILE:CG1	2:E3:46:HIS:H	2.23	0.52
2:H3:25:GLU:HG3	1:g7:70:ASN:HD22	1.74	0.52
1:Q3:22:LEU:HB3	1:Z4:47:GLU:HG2	1.90	0.52
1:Q3:367:PRO:HD2	1:Z8:108:MET:SD	2.49	0.52
1:R3:111:ARG:HD3	1:I8:371:GLU:CD	2.31	0.52
2:X3:17:ASP:HB2	1:I8:357:LYS:HD3	1.91	0.52
2:X3:53:PHE:CD2	1:I8:64:ILE:HG13	2.44	0.52
1:b3:116:MET:SD	1:BD:54:LEU:HD21	2.49	0.52
1:C4:33:TRP:CZ2	1:CG:177:ASP:OD2	2.63	0.52
1:C4:63:LEU:HD11	1:RG:91:ILE:HD12	1.91	0.52
1:C4:75:LEU:HD22	2:ER:50:LYS:HD3	1.92	0.52
1:I4:150:ASN:CG	2:X8:2:TYR:HB3	2.32	0.52
1:I4:177:ASP:OD2	1:QL:33:TRP:CZ2	2.63	0.52
1:I4:359:MET:HE1	2:H8:24:THR:CG2	2.39	0.52
1:R4:116:MET:SD	1:BS:54:LEU:HD23	2.50	0.52
2:U4:5:ASN:C	1:BS:153:LEU:HD11	2.35	0.52
1:a4:130:LYS:HE3	1:a4:373:THR:HG21	1.91	0.52
2:e4:24:THR:HG21	1:Y8:359:MET:HE1	1.90	0.52
1:i4:25:PHE:O	1:LD:100:ASP:CA	2.57	0.52
1:i4:368:GLU:OE2	1:CD:128:LYS:NZ	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E5:37:ASP:CB	3:AH:197:VAL:CB	2.88	0.52
5:N5:230:SER:HA	5:CN:266:THR:CG2	2.40	0.52
1:C6:258:THR:HB	1:B6:256:ALA:HB1	1.92	0.52
1:I6:177:ASP:OD2	1:CL:33:TRP:CZ2	2.63	0.52
1:Q6:57:LYS:HD2	1:CJ:143:GLN:CD	2.16	0.52
1:Q6:71:ARG:NH1	1:Q6:272:SER:O	2.43	0.52
1:Q6:363:PRO:HG2	2:NJ:9:SER:HB2	1.91	0.52
1:S6:57:LYS:HE2	1:CS:143:GLN:OE1	2.08	0.52
1:Y6:70:ASN:HD22	2:RE:25:GLU:HG3	1.74	0.52
1:Y6:81:PHE:HE2	1:SE:139:ARG:HD2	1.63	0.52
1:a6:28:ASP:N	1:a6:28:ASP:OD1	2.43	0.52
2:f6:17:ASP:HB2	1:KE:357:LYS:HD3	1.91	0.52
1:g6:316:VAL:HA	1:DJ:31:LYS:NZ	2.22	0.52
2:n6:25:GLU:HG3	1:AE:70:ASN:HD22	1.74	0.52
1:C7:13:LEU:HD23	1:CK:45:MET:HG2	1.90	0.52
1:A7:111:ARG:HD3	1:gR:371:GLU:CD	2.31	0.52
1:B7:47:GLU:CB	1:DP:20:SER:HB2	2.32	0.52
1:D7:98:ASN:HD22	1:D7:99:MET:N	2.07	0.52
1:I7:33:TRP:CZ2	1:gR:177:ASP:OD2	2.63	0.52
1:K7:137:ASP:HB3	1:CQ:50:VAL:CG2	2.39	0.52
1:L7:240:ILE:HG12	1:L7:344:ILE:HG12	1.92	0.52
2:P7:52:SER:O	1:bQ:62:LEU:HD11	2.09	0.52
1:R7:108:MET:SD	1:Y7:367:PRO:HD2	2.49	0.52
1:a7:263:GLY:HA2	2:d7:39:ASP:O	2.09	0.52
1:i7:137:ASP:HB3	1:C8:50:VAL:CG2	2.39	0.52
1:S8:47:GLU:HG2	1:IG:22:LEU:HB3	1.90	0.52
1:Y8:98:ASN:HD22	1:Y8:99:MET:H	1.56	0.52
1:j8:44:THR:OG1	1:JL:14:VAL:O	2.26	0.52
2:k8:45:ILE:CG1	2:k8:46:HIS:H	2.23	0.52
3:A9:150:TYR:C	1:AK:144:THR:HG21	2.28	0.52
4:B9:33:TYR:CZ	5:EC:57:GLU:HA	2.37	0.52
4:B9:139:ASP:N	4:B9:139:ASP:OD1	2.40	0.52
3:AB:48:ARG:H	3:AB:55:PHE:HE2	1.58	0.52
4:BB:137:ASN:HA	4:BF:202:GLN:HB3	1.90	0.52
4:BB:139:ASP:HB3	4:BF:200:SER:CB	2.40	0.52
4:BB:250:ILE:CD1	3:AM:209:MET:CG	2.84	0.52
5:DC:105:ILE:O	5:DC:109:PHE:HB2	2.10	0.52
1:BD:175:LEU:HD11	1:BD:241:LEU:HD21	1.89	0.52
1:BD:237:ASP:OD1	1:BD:237:ASP:N	2.43	0.52
2:FD:10:MET:CB	1:KS:372:VAL:CG1	2.86	0.52
1:LD:35:PHE:CD1	1:DK:384:ILE:CD1	2.86	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:125:ILE:HD12	1:YG:31:LYS:O	2.10	0.52
1:LD:178:TYR:CD1	1:YG:35:PHE:CE1	2.97	0.52
1:LD:316:VAL:HG21	1:YG:32:SER:CB	2.34	0.52
1:CE:28:ASP:N	1:CE:28:ASP:OD1	2.43	0.52
1:FE:145:LEU:HD21	2:HP:17:ASP:OD2	2.10	0.52
1:LE:34:THR:HG21	1:NE:122:GLY:H	1.73	0.52
1:LE:108:MET:SD	1:SE:367:PRO:HD2	2.49	0.52
1:VE:98:ASN:HD22	1:VE:99:MET:N	2.07	0.52
1:aE:177:ASP:OD2	1:CG:33:TRP:CZ2	2.63	0.52
2:hE:52:SER:O	1:CR:62:LEU:HD11	2.09	0.52
5:EF:36:ALA:O	3:AO:194:ASN:CB	2.57	0.52
1:DG:143:GLN:HB3	1:RR:57:LYS:HB3	1.92	0.52
1:KG:107:LEU:HD12	1:KG:110:LYS:HD3	1.90	0.52
1:QG:208:LEU:HD12	1:QG:391:ILE:HD11	1.89	0.52
1:jG:98:ASN:HD22	1:jG:99:MET:N	2.07	0.52
3:AI:194:ASN:CB	5:EM:36:ALA:O	2.57	0.52
3:AI:242:ILE:HG22	3:AO:270:ASN:HD22	1.73	0.52
1:KJ:32:SER:HB3	1:AP:170:GLU:CG	2.40	0.52
1:KJ:32:SER:CB	1:AP:170:GLU:CG	2.88	0.52
2:MJ:6:ASN:HA	1:JS:153:LEU:CD2	2.39	0.52
1:AK:170:GLU:CG	1:KP:32:SER:HB3	2.40	0.52
1:LK:169:LYS:HG3	1:LK:172:ARG:HH21	1.75	0.52
1:AL:57:LYS:HB3	1:LL:143:GLN:HB3	1.92	0.52
1:DL:240:ILE:HG12	1:DL:344:ILE:HG12	1.92	0.52
1:IL:71:ARG:NH1	1:IL:272:SER:O	2.43	0.52
1:IL:139:ARG:HD2	1:IQ:81:PHE:HD2	1.25	0.52
1:LL:240:ILE:HG12	1:LL:344:ILE:HG12	1.92	0.52
2:PL:17:ASP:HB2	1:YR:357:LYS:HD3	1.91	0.52
1:SL:28:ASP:N	1:SL:28:ASP:OD1	2.43	0.52
1:TL:98:ASN:HD22	1:TL:99:MET:N	2.07	0.52
3:AO:66:ILE:CB	2:LS:54:THR:CG2	2.68	0.52
1:AQ:34:THR:HG21	1:DQ:122:GLY:H	1.73	0.52
1:DQ:63:LEU:HD21	1:DQ:154:GLY:HA3	1.91	0.52
1:SQ:28:ASP:N	1:SQ:28:ASP:OD1	2.43	0.52
1:BR:263:GLY:HA2	2:FR:39:ASP:O	2.09	0.52
1:IR:208:LEU:HD12	1:IR:391:ILE:HD11	1.89	0.52
1:QR:71:ARG:NH1	1:QR:272:SER:O	2.43	0.52
1:jR:63:LEU:HD21	1:jR:154:GLY:HA3	1.91	0.52
2:H1:25:GLU:HG3	1:C6:70:ASN:HD22	1.74	0.52
1:K1:137:ASP:HB3	1:Y6:50:VAL:CG2	2.39	0.52
1:L1:44:THR:OG1	1:R8:14:VAL:O	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q1:361:LYS:NZ	1:Q8:370:ASP:OD1	2.43	0.52
1:Q1:370:ASP:OD1	1:IG:361:LYS:NZ	2.43	0.52
1:S1:28:ASP:N	1:S1:28:ASP:OD1	2.43	0.52
1:X1:62:LEU:HD11	2:P6:52:SER:O	2.09	0.52
1:X1:70:ASN:HD22	2:P6:25:GLU:HG3	1.74	0.52
1:X1:71:ARG:NH1	1:X1:272:SER:O	2.43	0.52
1:a1:240:ILE:HG12	1:a1:344:ILE:HG12	1.92	0.52
1:f1:50:VAL:CG2	1:B3:137:ASP:HB3	2.39	0.52
1:f1:150:ASN:CG	2:n7:2:TYR:HB3	2.32	0.52
2:j1:50:LYS:HD3	1:I7:75:LEU:HD22	1.92	0.52
2:m1:2:TYR:HB3	1:gR:150:ASN:CG	2.32	0.52
2:m1:17:ASP:HB2	1:CQ:357:LYS:HD3	1.91	0.52
3:A2:208:LYS:C	4:BA:250:ILE:HD12	2.30	0.52
1:C3:62:LEU:HD11	2:n7:52:SER:O	2.09	0.52
1:I3:370:ASP:OD1	1:QL:361:LYS:NZ	2.43	0.52
1:J3:14:VAL:O	1:D8:44:THR:OG1	2.26	0.52
1:K3:13:LEU:CD1	1:I4:45:MET:CE	2.86	0.52
1:L3:63:LEU:HD21	1:L3:154:GLY:HA3	1.91	0.52
1:R3:105:GLU:CB	1:J6:109:LEU:O	2.58	0.52
2:a3:15:TYR:OH	1:BK:138:THR:CG2	2.56	0.52
1:b3:375:TRP:CE3	1:BD:367:PRO:HG2	2.45	0.52
1:C4:71:ARG:NH1	1:C4:272:SER:O	2.43	0.52
1:B4:28:ASP:N	1:B4:28:ASP:OD1	2.43	0.52
1:D4:63:LEU:HD21	1:D4:154:GLY:HA3	1.91	0.52
1:I4:71:ARG:NH1	1:I4:272:SER:O	2.43	0.52
1:J4:105:GLU:CB	1:h6:109:LEU:O	2.58	0.52
1:X4:71:ARG:NH1	1:X4:272:SER:O	2.43	0.52
1:X4:358:GLY:HA2	2:f8:18:SER:HB2	1.92	0.52
1:Y4:91:ILE:HD12	1:Y8:63:LEU:HD11	1.91	0.52
1:a4:240:ILE:HG12	1:a4:344:ILE:HG12	1.92	0.52
1:f4:71:ARG:NH1	1:f4:272:SER:O	2.43	0.52
1:h4:105:GLU:O	1:LD:109:LEU:HD11	2.09	0.52
1:C6:139:ARG:HD2	1:gG:81:PHE:HE2	1.63	0.52
1:C6:150:ASN:CG	2:HL:2:TYR:HB3	2.32	0.52
1:A6:57:LYS:HB3	1:bG:143:GLN:HB3	1.92	0.52
1:I6:33:TRP:CZ2	1:YR:177:ASP:OD2	2.63	0.52
2:M6:50:LYS:HD3	1:I8:75:LEU:HD22	1.92	0.52
1:R6:57:LYS:HB3	1:YQ:143:GLN:HB3	1.92	0.52
1:g6:242:THR:HG21	1:g6:246:LEU:HD12	1.92	0.52
1:C7:62:LEU:HD11	2:mR:52:SER:O	2.09	0.52
1:C7:71:ARG:NH1	1:C7:272:SER:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:81:PHE:CE2	1:DP:136:ASN:O	2.62	0.52
1:D7:240:ILE:HG12	1:D7:344:ILE:HG12	1.92	0.52
2:H7:53:PHE:O	1:gR:62:LEU:HD11	2.03	0.52
1:L7:98:ASN:HD22	1:L7:99:MET:N	2.07	0.52
1:Q7:71:ARG:NH1	1:Q7:272:SER:O	2.43	0.52
1:Q7:360:LEU:HD23	2:XQ:22:LYS:HG2	1.89	0.52
1:R7:34:THR:HG21	1:T7:122:GLY:H	1.73	0.52
1:R7:99:MET:SD	1:QQ:128:LYS:CD	2.92	0.52
1:S7:137:ASP:OD2	1:QR:49:PHE:N	2.42	0.52
1:Y7:177:ASP:OD2	1:KE:33:TRP:CZ2	2.63	0.52
1:Z7:111:ARG:HD3	1:IR:371:GLU:CD	2.31	0.52
1:a7:28:ASP:N	1:a7:28:ASP:OD1	2.43	0.52
1:b7:240:ILE:HG12	1:b7:344:ILE:HG12	1.92	0.52
1:Q8:71:ARG:NH1	1:Q8:272:SER:O	2.43	0.52
1:S8:13:LEU:CD1	1:IG:45:MET:CE	2.86	0.52
1:T8:63:LEU:HD21	1:T8:154:GLY:HA3	1.91	0.52
1:g8:29:TYR:HB3	1:KS:315:ALA:HB1	1.90	0.52
1:g8:167:GLU:OE2	1:g8:352:TYR:OH	2.26	0.52
1:i8:28:ASP:N	1:i8:28:ASP:OD1	2.43	0.52
4:BA:139:ASP:N	4:BA:139:ASP:OD1	2.40	0.52
3:AC:8:LEU:HA	5:FH:27:ARG:HD3	1.91	0.52
1:AD:223:GLY:CA	1:KK:53:TYR:CD2	2.91	0.52
1:CD:45:MET:HG2	1:YG:13:LEU:HD23	1.90	0.52
1:DD:304:GLN:HG3	1:KS:28:ASP:HB3	1.92	0.52
1:KD:99:MET:HE1	1:KK:370:ASP:HB3	1.91	0.52
1:KD:134:ASN:ND2	1:KD:137:ASP:OD1	2.42	0.52
1:LD:81:PHE:CD2	1:YG:139:ARG:NH1	2.44	0.52
1:LD:137:ASP:CG	1:KK:50:VAL:CG2	2.79	0.52
1:LD:312:PRO:HG3	1:YG:30:SER:OG	2.09	0.52
1:DE:240:ILE:HG12	1:DE:344:ILE:HG12	1.92	0.52
1:BE:110:LYS:NZ	1:AP:104:ASN:CB	2.66	0.52
1:CE:106:GLU:HA	1:LP:109:LEU:CD1	2.40	0.52
1:KE:242:THR:HG21	1:KE:246:LEU:HD12	1.92	0.52
1:KE:367:PRO:HD2	1:JR:108:MET:SD	2.49	0.52
1:LE:109:LEU:O	1:JG:105:GLU:CB	2.58	0.52
1:SE:63:LEU:HD11	1:JQ:91:ILE:HD12	1.91	0.52
1:UE:150:ASN:HD21	2:NG:1:MET:H3	1.56	0.52
1:VE:240:ILE:HG12	1:VE:344:ILE:HG12	1.92	0.52
1:aE:63:LEU:HD11	1:AR:91:ILE:HD12	1.91	0.52
2:eE:45:ILE:CG1	2:eE:46:HIS:H	2.23	0.52
5:NF:230:SER:HA	5:CM:266:THR:CG2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:57:LYS:HB3	1:TG:143:GLN:HB3	1.92	0.52
1:IG:71:ARG:NH1	1:IG:272:SER:O	2.43	0.52
1:YG:71:ARG:NH1	1:YG:272:SER:O	2.43	0.52
1:bG:240:ILE:HG12	1:bG:344:ILE:HG12	1.92	0.52
1:gG:62:LEU:HD11	2:HL:52:SER:O	2.09	0.52
4:BH:200:SER:CB	4:BN:139:ASP:HB3	2.40	0.52
5:EH:26:GLU:HG2	5:EH:27:ARG:HD2	1.92	0.52
3:AI:197:VAL:CB	5:EM:37:ASP:CB	2.88	0.52
1:BJ:54:LEU:CG	1:gL:116:MET:SD	2.97	0.52
1:DJ:109:LEU:CG	1:KP:106:GLU:N	2.16	0.52
2:MJ:15:TYR:CE1	1:JS:148:ALA:HB1	2.45	0.52
1:AK:355:TYR:CZ	1:KP:139:ARG:NH1	2.75	0.52
1:CK:35:PHE:HZ	1:hR:178:TYR:HB2	1.75	0.52
1:CK:55:PHE:HB3	1:hR:87:GLU:OE1	2.08	0.52
1:DL:98:ASN:HD22	1:DL:99:MET:N	2.07	0.52
1:IL:50:VAL:CG2	1:KQ:137:ASP:HB3	2.39	0.52
1:IL:258:THR:HB	1:KL:256:ALA:HB1	1.92	0.52
1:QL:321:VAL:CG2	1:QL:327:PHE:CD2	2.92	0.52
1:QL:360:LEU:HD22	2:XR:22:LYS:HG2	1.91	0.52
2:XL:24:THR:CG2	1:QR:359:MET:HE1	2.39	0.52
1:YL:71:ARG:NH1	1:YL:272:SER:O	2.43	0.52
3:AM:48:ARG:H	3:AM:55:PHE:HE2	1.58	0.52
5:DN:9:LYS:HE3	5:DN:66:TYR:HD1	1.73	0.52
5:FN:101:ILE:HA	5:FN:104:ILE:HG12	1.91	0.52
5:EO:26:GLU:HG2	5:EO:27:ARG:HD2	1.92	0.52
1:CQ:177:ASP:OD2	1:gR:33:TRP:CZ2	2.63	0.52
1:CQ:258:THR:HB	1:BQ:256:ALA:HB1	1.92	0.52
2:MQ:45:ILE:CG1	2:MQ:46:HIS:H	2.23	0.52
1:RQ:34:THR:HG21	1:TQ:122:GLY:H	1.73	0.52
1:TQ:63:LEU:HD21	1:TQ:154:GLY:HA3	1.91	0.52
1:eQ:63:LEU:HD21	1:eQ:154:GLY:HA3	1.91	0.52
1:CR:71:ARG:NH1	1:CR:272:SER:O	2.43	0.52
1:CR:242:THR:HG21	1:CR:246:LEU:HD12	1.92	0.52
1:IR:258:THR:HB	1:KR:256:ALA:HB1	1.92	0.52
1:AS:261:ILE:HG21	1:AS:265:ASP:OD1	1.98	0.52
1:CS:240:ILE:HD11	1:CS:270:VAL:HG13	1.92	0.52
1:C1:242:THR:HG21	1:C1:246:LEU:HD12	1.92	0.52
1:C1:358:GLY:HA2	2:H6:18:SER:HB2	1.92	0.52
1:A1:57:LYS:HB3	1:a4:143:GLN:HB3	1.92	0.52
1:B1:137:ASP:HB3	1:Y8:50:VAL:CG2	2.39	0.52
2:H1:18:SER:HB2	1:C6:358:GLY:HA2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J1:109:LEU:O	1:J3:105:GLU:CB	2.58	0.52
1:X1:367:PRO:HD2	1:R3:108:MET:SD	2.49	0.52
1:a1:98:ASN:HD22	1:a1:99:MET:N	2.07	0.52
1:f1:208:LEU:HD12	1:f1:391:ILE:HD11	1.89	0.52
1:f1:258:THR:HB	1:h1:256:ALA:HB1	1.92	0.52
3:A2:48:ARG:H	3:A2:55:PHE:HE2	1.58	0.52
3:A2:169:LEU:HD21	3:AF:203:GLY:HA3	1.91	0.52
3:A2:194:ASN:HD21	4:BA:3:ARG:CA	2.22	0.52
4:B2:200:SER:CB	4:B9:139:ASP:HB3	2.40	0.52
5:D2:105:ILE:O	5:D2:109:PHE:HB2	2.10	0.52
5:F2:27:ARG:HD3	3:AB:8:LEU:HA	1.91	0.52
1:I3:71:ARG:NH1	1:I3:272:SER:O	2.43	0.52
1:K3:28:ASP:N	1:K3:28:ASP:OD1	2.43	0.52
1:K3:47:GLU:HG2	1:I4:22:LEU:HB3	1.90	0.52
1:L3:351:LYS:NZ	1:D8:60:GLU:OE2	2.43	0.52
1:C4:167:GLU:OE2	1:C4:352:TYR:OH	2.26	0.52
1:C4:360:LEU:HD23	2:XG:22:LYS:HG2	1.89	0.52
1:A4:99:MET:SD	1:QG:128:LYS:CD	2.92	0.52
1:B4:137:ASP:HB3	1:aE:50:VAL:CG2	2.39	0.52
1:D4:98:ASN:HD22	1:D4:99:MET:N	2.07	0.52
1:I4:361:LYS:NZ	1:QL:370:ASP:OD1	2.43	0.52
1:R4:91:ILE:HD12	1:g8:63:LEU:HD11	1.91	0.52
1:f4:50:VAL:CG2	1:B6:137:ASP:HB3	2.39	0.52
1:f4:98:ASN:HD22	1:f4:99:MET:H	1.56	0.52
1:f4:258:THR:HB	1:h4:256:ALA:HB1	1.92	0.52
1:g4:87:GLU:OE1	1:CD:55:PHE:HB3	2.08	0.52
2:l4:18:SER:HB2	1:YG:358:GLY:HA2	1.92	0.52
4:B5:30:LEU:HB2	5:EO:64:TRP:CD1	2.41	0.52
4:B5:139:ASP:N	4:B5:139:ASP:OD1	2.40	0.52
1:A6:108:MET:SD	1:Y8:367:PRO:HD2	2.49	0.52
1:L6:240:ILE:HG12	1:L6:344:ILE:HG12	1.92	0.52
1:Q6:31:LYS:O	1:LJ:125:ILE:HD12	2.10	0.52
1:g6:35:PHE:CZ	1:LP:178:TYR:HA	2.45	0.52
1:h6:57:LYS:HB3	1:gL:143:GLN:HB3	1.92	0.52
1:I7:208:LEU:HD12	1:I7:391:ILE:HD11	1.89	0.52
1:I7:360:LEU:HD23	2:iQ:22:LYS:HG2	1.89	0.52
1:I7:361:LYS:NZ	1:CQ:370:ASP:OD1	2.43	0.52
1:Q7:204:ALA:O	1:Q7:207:ASN:HB2	2.08	0.52
1:Q7:258:THR:HB	1:S7:256:ALA:HB1	1.92	0.52
1:R7:91:ILE:HD12	1:QQ:63:LEU:HD11	1.91	0.52
1:T7:143:GLN:HB3	1:LE:57:LYS:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T7:240:ILE:HG12	1:T7:344:ILE:HG12	1.92	0.52
1:Y7:71:ARG:NH1	1:Y7:272:SER:O	2.43	0.52
1:Y7:98:ASN:HD22	1:Y7:99:MET:H	1.56	0.52
2:f7:52:SER:O	1:IR:62:LEU:HD11	2.09	0.52
1:g7:98:ASN:HD22	1:g7:99:MET:H	1.56	0.52
1:j7:240:ILE:HG12	1:j7:344:ILE:HG12	1.92	0.52
1:A8:109:LEU:O	1:R8:105:GLU:CB	2.58	0.52
1:B8:137:ASP:HB3	1:AE:50:VAL:CG2	2.39	0.52
1:J8:105:GLU:CB	1:bE:109:LEU:O	2.58	0.52
1:S8:28:ASP:N	1:S8:28:ASP:OD1	2.43	0.52
1:Y8:71:ARG:NH1	1:Y8:272:SER:O	2.43	0.52
1:Y8:177:ASP:OD2	1:bQ:33:TRP:CZ2	2.63	0.52
1:Y8:258:THR:HB	1:a8:256:ALA:HB1	1.92	0.52
1:Z8:109:LEU:O	1:bE:105:GLU:CB	2.58	0.52
1:b8:98:ASN:HD22	1:b8:99:MET:N	2.07	0.52
1:g8:71:ARG:NH1	1:g8:272:SER:O	2.43	0.52
3:A9:8:LEU:HA	5:FA:27:ARG:HD3	1.91	0.52
5:F9:101:ILE:HA	5:F9:104:ILE:HG12	1.91	0.52
4:BA:200:SER:CB	4:BC:139:ASP:HB3	2.40	0.52
5:DA:90:ASP:HA	5:DA:93:ARG:HB2	1.92	0.52
5:EB:37:ASP:CB	3:AM:197:VAL:CB	2.88	0.52
5:FB:27:ARG:HD3	3:AF:8:LEU:HA	1.91	0.52
5:DC:116:LEU:HD22	5:EC:116:LEU:HD13	1.92	0.52
5:CC:266:THR:CG2	5:NH:230:SER:HA	2.40	0.52
1:AD:85:TYR:HA	1:AD:122:GLY:HA2	1.91	0.52
1:AD:162:ASP:HA	1:AD:165:VAL:HG12	1.92	0.52
1:KD:32:SER:CB	1:IS:170:GLU:CG	2.88	0.52
1:KE:361:LYS:NZ	1:QQ:370:ASP:OD1	2.43	0.52
1:ME:137:ASP:OD2	1:QQ:49:PHE:N	2.42	0.52
2:OE:45:ILE:HG13	2:OE:46:HIS:H	1.66	0.52
5:DF:90:ASP:HA	5:DF:93:ARG:HB2	1.92	0.52
1:CG:258:THR:HB	1:BG:256:ALA:HB1	1.92	0.52
1:AG:105:GLU:CB	1:RQ:109:LEU:O	2.58	0.52
1:BG:365:HIS:HA	1:BG:372:VAL:HG23	1.91	0.52
1:RG:105:GLU:CB	1:AR:109:LEU:O	2.58	0.52
1:aG:44:THR:O	1:DK:16:LYS:HG2	2.10	0.52
1:jG:63:LEU:HD21	1:jG:154:GLY:HA3	1.91	0.52
1:jG:130:LYS:HE3	1:jG:373:THR:HG21	1.91	0.52
5:EH:140:ASP:N	5:CH:139:LYS:HB3	2.25	0.52
5:FI:101:ILE:HA	5:FI:104:ILE:HG12	1.91	0.52
1:AJ:123:ASN:ND2	1:JS:21:ALA:HB1	2.12	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FJ:2:TYR:CE2	1:LP:157:LYS:NZ	2.71	0.52
1:KJ:78:GLU:HG3	3:AN:66:ILE:CG2	2.40	0.52
1:AK:222:SER:O	1:KP:53:TYR:HE1	1.90	0.52
1:BK:47:GLU:OE1	1:jR:20:SER:HB2	2.09	0.52
1:DK:55:PHE:O	1:DK:57:LYS:NZ	2.40	0.52
2:HK:17:ASP:OD2	1:jR:145:LEU:HD21	2.10	0.52
2:MK:15:TYR:O	1:KP:145:LEU:HB3	2.10	0.52
1:CL:75:LEU:HD22	2:ML:50:LYS:HD3	1.92	0.52
1:CL:258:THR:HB	1:BL:256:ALA:HB1	1.92	0.52
1:IL:208:LEU:HD12	1:IL:391:ILE:HD11	1.89	0.52
2:PL:24:THR:CG2	1:YR:359:MET:HE1	2.39	0.52
1:QL:74:TRP:CZ3	2:XR:32:ILE:CD1	2.89	0.52
1:gL:240:ILE:HG12	1:gL:344:ILE:HG12	1.92	0.52
3:AM:134:ASN:HD22	3:AO:48:ARG:NH2	2.08	0.52
3:AM:181:SER:OG	3:AO:204:ALA:O	2.18	0.52
3:AO:66:ILE:HG21	2:LS:54:THR:O	2.09	0.52
5:DO:104:ILE:O	5:DO:108:GLU:HB2	2.10	0.52
1:BP:237:ASP:OD1	1:BP:237:ASP:N	2.43	0.52
2:EP:50:LYS:NZ	2:EP:51:GLN:O	2.43	0.52
1:IQ:321:VAL:CG2	1:IQ:327:PHE:CD2	2.92	0.52
1:LQ:63:LEU:HD21	1:LQ:154:GLY:HA3	1.91	0.52
1:QQ:71:ARG:NH1	1:QQ:272:SER:O	2.43	0.52
1:eQ:98:ASN:HD22	1:eQ:99:MET:N	2.07	0.52
1:LR:98:ASN:HD22	1:LR:99:MET:N	2.07	0.52
1:YR:258:THR:HB	1:aR:256:ALA:HB1	1.92	0.52
1:jR:240:ILE:HG12	1:jR:344:ILE:HG12	1.92	0.52
1:C1:70:ASN:HD22	2:H6:25:GLU:HG3	1.74	0.52
1:C1:139:ARG:HD2	1:bQ:81:PHE:HE2	1.63	0.52
1:C1:177:ASP:OD2	1:Y8:33:TRP:CZ2	2.63	0.52
1:A1:108:MET:SD	1:f4:367:PRO:HD2	2.49	0.52
1:I1:98:ASN:HD22	1:I1:99:MET:H	1.56	0.52
1:J1:105:GLU:CB	1:R6:109:LEU:O	2.58	0.52
1:L1:60:GLU:OE2	1:T8:351:LYS:NZ	2.43	0.52
2:P1:52:SER:O	1:IG:62:LEU:HD11	2.09	0.52
1:Q1:177:ASP:OD2	1:Q8:33:TRP:CZ2	2.63	0.52
1:R1:57:LYS:HB3	1:L3:143:GLN:HB3	1.92	0.52
1:T1:145:LEU:HD21	2:HJ:17:ASP:OD2	2.10	0.52
1:X1:33:TRP:CZ2	1:I8:177:ASP:OD2	2.63	0.52
2:e1:53:PHE:O	1:I6:62:LEU:HD11	2.03	0.52
1:f1:139:ARG:HD2	1:C3:81:PHE:HD2	1.25	0.52
1:f1:242:THR:HG21	1:f1:246:LEU:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f1:361:LYS:NZ	1:QG:370:ASP:OD1	2.43	0.52
1:g1:109:LEU:O	1:cQ:105:GLU:CB	2.58	0.52
3:A2:193:ILE:HD11	3:A9:12:LEU:HD21	1.91	0.52
4:B2:3:ARG:CA	3:AF:194:ASN:HD21	2.22	0.52
5:D2:116:LEU:HD22	5:E2:116:LEU:HD13	1.92	0.52
5:E2:36:ALA:O	3:AF:194:ASN:CB	2.57	0.52
1:C3:63:LEU:HD11	1:h7:91:ILE:HD12	1.91	0.52
1:D3:240:ILE:HG12	1:D3:344:ILE:HG12	1.92	0.52
1:Q3:50:VAL:CG2	1:Z4:137:ASP:HB3	2.39	0.52
1:Q3:70:ASN:HD22	2:P8:25:GLU:HG3	1.74	0.52
2:X3:25:GLU:HG3	1:I8:70:ASN:HD22	1.74	0.52
1:Y3:60:GLU:OE2	1:bG:351:LYS:NZ	2.43	0.52
1:b3:130:LYS:HE3	1:b3:373:THR:HG21	1.91	0.52
1:C4:177:ASP:OD2	1:aE:33:TRP:CZ2	2.63	0.52
1:I4:242:THR:HG21	1:I4:246:LEU:HD12	1.92	0.52
1:L4:143:GLN:HB3	1:h7:57:LYS:HB3	1.92	0.52
2:P4:53:PHE:O	1:C8:62:LEU:HD11	2.03	0.52
1:Q4:370:ASP:OD1	1:IL:361:LYS:NZ	2.43	0.52
1:T4:50:VAL:HG23	1:AS:137:ASP:OD2	2.10	0.52
1:T4:240:ILE:HG12	1:T4:344:ILE:HG12	1.92	0.52
2:W4:15:TYR:CZ	1:DD:133:LEU:HD12	2.45	0.52
1:f4:177:ASP:OD2	1:gG:33:TRP:CZ2	2.63	0.52
1:i4:98:ASN:HD22	1:i4:99:MET:N	2.07	0.52
2:l4:5:ASN:N	1:DK:153:LEU:HD11	2.12	0.52
3:A5:8:LEU:HA	5:FI:27:ARG:HD3	1.92	0.52
4:B5:3:ARG:CA	3:AH:194:ASN:HD21	2.22	0.52
5:D5:90:ASP:HA	5:D5:93:ARG:HB2	1.92	0.52
5:D5:105:ILE:O	5:D5:109:PHE:HB2	2.10	0.52
5:E5:36:ALA:O	3:AH:194:ASN:CB	2.57	0.52
1:C6:242:THR:HG21	1:C6:246:LEU:HD12	1.92	0.52
1:D6:143:GLN:HB3	1:cQ:57:LYS:HB3	1.92	0.52
1:I6:150:ASN:CG	2:PL:2:TYR:HB3	2.32	0.52
1:Q6:13:LEU:C	1:CJ:45:MET:SD	2.92	0.52
1:S6:98:ASN:ND2	1:S6:99:MET:N	2.58	0.52
1:Z6:109:LEU:O	1:JR:105:GLU:CB	2.58	0.52
1:a6:365:HIS:HA	1:a6:372:VAL:HG23	1.91	0.52
1:g6:153:LEU:CD2	2:NP:4:GLY:HA3	2.37	0.52
1:B7:45:MET:CE	1:DP:39:TRP:CZ3	2.92	0.52
1:I7:258:THR:HB	1:K7:256:ALA:HB1	1.92	0.52
1:Q7:75:LEU:HD22	2:UL:50:LYS:HD3	1.92	0.52
1:R7:57:LYS:HB3	1:TL:143:GLN:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R7:105:GLU:CB	1:JR:109:LEU:O	2.58	0.52
1:Y7:259:PHE:HE1	1:JR:259:PHE:HE1	1.48	0.52
2:f7:18:SER:HB2	1:IR:358:GLY:HA2	1.92	0.52
1:g7:139:ARG:HD2	1:AE:81:PHE:HE2	1.63	0.52
1:C8:98:ASN:HD22	1:C8:99:MET:H	1.56	0.52
1:a8:28:ASP:N	1:a8:28:ASP:OD1	2.43	0.52
1:g8:81:PHE:CE2	1:DD:136:ASN:O	2.62	0.52
1:j8:105:GLU:C	1:CD:109:LEU:HD13	2.30	0.52
4:B9:200:SER:CB	4:BA:139:ASP:HB3	2.40	0.52
5:E9:41:ASN:O	5:FA:46:TYR:HE2	1.93	0.52
3:AA:208:LYS:O	4:BH:250:ILE:CG1	2.57	0.52
5:DA:40:THR:CG2	3:AB:197:VAL:HG11	2.27	0.52
5:DA:104:ILE:O	5:DA:108:GLU:HB2	2.09	0.52
5:DC:90:ASP:HA	5:DC:93:ARG:HB2	1.92	0.52
1:BD:108:MET:HE2	1:KS:369:PHE:HB2	1.91	0.52
1:KD:105:GLU:CD	1:DK:109:LEU:HG	2.35	0.52
1:LD:169:LYS:HG3	1:LD:172:ARG:HH21	1.75	0.52
2:MD:15:TYR:O	1:KK:145:LEU:HB3	2.09	0.52
1:BE:223:GLY:CA	1:CP:53:TYR:CD1	2.92	0.52
1:CE:365:HIS:HA	1:CE:372:VAL:HG23	1.91	0.52
1:FE:30:SER:O	1:CP:315:ALA:CA	2.44	0.52
1:KE:98:ASN:HD22	1:KE:99:MET:H	1.56	0.52
1:SE:98:ASN:HD22	1:SE:99:MET:H	1.56	0.52
1:TE:14:VAL:O	1:LG:44:THR:OG1	2.26	0.52
2:ZE:2:TYR:HB3	1:IL:150:ASN:CG	2.32	0.52
1:aE:153:LEU:HD21	2:XG:4:GLY:HA3	1.92	0.52
1:DG:179:SER:HG	1:DG:341:TYR:HH	1.53	0.52
1:IG:242:THR:HG21	1:IG:246:LEU:HD12	1.92	0.52
1:SG:28:ASP:N	1:SG:28:ASP:OD1	2.43	0.52
1:TG:240:ILE:HG12	1:TG:344:ILE:HG12	1.92	0.52
1:ZG:105:GLU:CB	1:AL:109:LEU:O	2.58	0.52
1:hG:105:GLU:CB	1:JL:109:LEU:O	2.58	0.52
1:iG:98:ASN:ND2	1:iG:99:MET:N	2.58	0.52
2:nG:22:LYS:HG2	1:CL:360:LEU:HD23	1.89	0.52
3:AH:292:SER:OG	3:AH:297:LEU:O	2.26	0.52
5:DH:116:LEU:HD22	5:EH:116:LEU:HD13	1.92	0.52
3:AI:48:ARG:NH2	3:AO:134:ASN:HD22	2.08	0.52
3:AI:194:ASN:HD21	4:BM:3:ARG:CA	2.22	0.52
4:BI:250:ILE:HD12	3:AN:208:LYS:C	2.30	0.52
5:FI:126:THR:HA	5:FI:129:LYS:HE3	1.91	0.52
1:LJ:35:PHE:CD1	1:CS:384:ILE:CD1	2.86	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:162:ASP:HA	1:AK:165:VAL:HG12	1.92	0.52
1:CK:36:GLY:HA3	1:hR:119:LYS:HD2	1.92	0.52
1:CK:153:LEU:HD11	2:kR:5:ASN:C	2.34	0.52
1:DK:240:ILE:HD11	1:DK:270:VAL:HG13	1.92	0.52
1:LK:27:HIS:O	1:BP:98:ASN:CG	2.53	0.52
1:LK:28:ASP:HB3	1:DP:304:GLN:HG3	1.92	0.52
1:LK:369:PHE:HB2	1:BP:108:MET:HE2	1.91	0.52
1:LK:372:VAL:CG1	2:FP:10:MET:CB	2.86	0.52
1:CL:361:LYS:NZ	1:YR:370:ASP:OD1	2.43	0.52
1:TL:240:ILE:HG12	1:TL:344:ILE:HG12	1.92	0.52
1:YL:242:THR:HG21	1:YL:246:LEU:HD12	1.92	0.52
2:hL:45:ILE:CG1	2:hL:46:HIS:H	2.23	0.52
5:DM:104:ILE:O	5:DM:108:GLU:HB2	2.09	0.52
3:AN:48:ARG:H	3:AN:55:PHE:HE2	1.58	0.52
3:AO:48:ARG:H	3:AO:55:PHE:HE2	1.58	0.52
5:EO:140:ASP:N	5:CO:139:LYS:HB3	2.25	0.52
1:AP:162:ASP:HA	1:AP:165:VAL:HG12	1.91	0.52
1:AP:290:ASN:N	1:AP:326:GLU:OE2	2.38	0.52
1:IQ:71:ARG:NH1	1:IQ:272:SER:O	2.43	0.52
1:LQ:240:ILE:HG12	1:LQ:344:ILE:HG12	1.92	0.52
2:aQ:11:MET:HE2	1:AS:372:VAL:HG23	1.91	0.52
1:bQ:258:THR:HB	1:dQ:256:ALA:HB1	1.92	0.52
1:dQ:98:ASN:ND2	1:dQ:99:MET:N	2.58	0.52
1:DR:130:LYS:HE3	1:DR:373:THR:HG21	1.91	0.52
1:KR:98:ASN:ND2	1:KR:99:MET:N	2.58	0.52
1:SR:98:ASN:ND2	1:SR:99:MET:N	2.58	0.52
1:JS:134:ASN:ND2	1:JS:137:ASP:OD1	2.42	0.52
1:C1:370:ASP:OD1	1:bQ:361:LYS:NZ	2.43	0.52
1:B1:47:GLU:HG2	1:Y8:22:LEU:CB	2.40	0.52
1:B1:98:ASN:ND2	1:B1:99:MET:N	2.58	0.52
1:D1:143:GLN:HB3	1:hG:57:LYS:HB3	1.92	0.52
1:I1:258:THR:HB	1:K1:256:ALA:HB1	1.92	0.52
1:Q1:74:TRP:CZ3	2:X6:32:ILE:CD1	2.89	0.52
1:S1:47:GLU:HG2	1:Q8:22:LEU:CB	2.40	0.52
1:T1:240:ILE:HG12	1:T1:344:ILE:HG12	1.92	0.52
1:X1:22:LEU:CB	1:K8:47:GLU:HG2	2.40	0.52
2:m1:24:THR:CG2	1:CQ:359:MET:HE1	2.39	0.52
3:A2:114:PHE:CD1	2:GK:25:GLU:HB2	2.43	0.52
3:A2:114:PHE:CE1	2:GK:25:GLU:HB3	2.44	0.52
5:F2:126:THR:HA	5:F2:129:LYS:HE3	1.91	0.52
1:C3:71:ARG:NH1	1:C3:272:SER:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C3:242:THR:HG21	1:C3:246:LEU:HD12	1.92	0.52
1:C3:358:GLY:HA2	2:n7:18:SER:HB2	1.92	0.52
1:A3:259:PHE:HE1	1:g7:259:PHE:HE1	1.48	0.52
2:E3:50:LYS:HD3	1:AE:75:LEU:HD22	1.92	0.52
1:I3:22:LEU:CB	1:SL:47:GLU:HG2	2.40	0.52
1:I3:33:TRP:CZ2	1:QL:177:ASP:OD2	2.63	0.52
1:J3:57:LYS:HB3	1:D8:143:GLN:HB3	1.92	0.52
1:Q3:33:TRP:CZ2	1:X4:177:ASP:OD2	2.63	0.52
1:Q3:61:THR:CG2	1:J8:89:TYR:HE1	2.16	0.52
1:Q3:242:THR:HG21	1:Q3:246:LEU:HD12	1.92	0.52
1:R3:57:LYS:HB3	1:dE:143:GLN:HB3	1.92	0.52
1:R3:85:TYR:HD1	1:R3:122:GLY:HA2	1.76	0.52
1:R3:109:LEU:O	1:Z7:105:GLU:CB	2.58	0.52
1:b3:351:LYS:NZ	1:i4:60:GLU:OE2	2.43	0.52
1:C4:358:GLY:HA2	2:XG:18:SER:HB2	1.92	0.52
1:B4:47:GLU:HG2	1:aE:22:LEU:CB	2.40	0.52
1:I4:63:LEU:HD11	1:A8:91:ILE:HD12	1.91	0.52
1:L4:44:THR:OG1	1:h7:14:VAL:O	2.26	0.52
1:Q4:33:TRP:CZ2	1:IL:177:ASP:OD2	2.63	0.52
1:Q4:242:THR:HG21	1:Q4:246:LEU:HD12	1.92	0.52
1:R4:57:LYS:HB3	1:VE:143:GLN:HB3	1.92	0.52
1:S4:28:ASP:N	1:S4:28:ASP:OD1	2.43	0.52
1:T4:30:SER:C	1:BS:315:ALA:CB	2.80	0.52
2:W4:22:LYS:HG2	1:g8:360:LEU:HD22	1.91	0.52
1:Y4:105:GLU:CB	1:J7:109:LEU:O	2.58	0.52
1:Z4:365:HIS:HA	1:Z4:372:VAL:HG23	1.91	0.52
1:f4:22:LEU:CB	1:B6:47:GLU:HG2	2.40	0.52
1:f4:33:TRP:CZ2	1:C6:177:ASP:OD2	2.63	0.52
1:g4:109:LEU:C	1:AD:105:GLU:HB2	2.29	0.52
1:h4:28:ASP:N	1:h4:28:ASP:OD1	2.43	0.52
1:i4:351:LYS:NZ	1:DL:60:GLU:OE2	2.43	0.52
3:A5:194:ASN:CB	5:EO:36:ALA:O	2.57	0.52
1:C6:98:ASN:HD22	1:C6:99:MET:H	1.56	0.52
1:B6:98:ASN:ND2	1:B6:99:MET:N	2.58	0.52
1:Q6:31:LYS:CE	1:LJ:314:GLY:HA3	2.40	0.52
2:X6:4:GLY:HA3	1:Q8:153:LEU:HD21	1.92	0.52
1:b6:63:LEU:HD21	1:b6:154:GLY:HA3	1.91	0.52
1:b6:143:GLN:HB3	1:Z7:57:LYS:HB3	1.92	0.52
1:g6:98:ASN:HD22	1:g6:99:MET:H	1.56	0.52
1:C7:45:MET:HG2	1:CK:14:VAL:CA	2.38	0.52
1:C7:316:VAL:CA	1:DP:31:LYS:NZ	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:367:PRO:HB2	1:LK:375:TRP:CG	2.45	0.52
1:I7:370:ASP:OD1	1:gR:361:LYS:NZ	2.43	0.52
1:J7:111:ARG:HD3	1:bQ:371:GLU:CD	2.31	0.52
1:Y7:370:ASP:OD1	1:QQ:361:LYS:NZ	2.43	0.52
1:a7:365:HIS:HA	1:a7:372:VAL:HG23	1.91	0.52
1:g7:242:THR:HG21	1:g7:246:LEU:HD12	1.92	0.52
1:j7:143:GLN:HB3	1:RG:57:LYS:HB3	1.92	0.52
1:A8:105:GLU:CB	1:RR:109:LEU:O	2.58	0.52
1:I8:321:VAL:CG2	1:I8:327:PHE:CD2	2.92	0.52
1:K8:263:GLY:HA2	2:N8:39:ASP:O	2.09	0.52
1:L8:130:LYS:HE3	1:L8:373:THR:HG21	1.91	0.52
1:T8:143:GLN:HB3	1:RL:57:LYS:HB3	1.92	0.52
1:b8:60:GLU:OE2	1:DR:351:LYS:NZ	2.43	0.52
1:g8:242:THR:HG21	1:g8:246:LEU:HD12	1.92	0.52
1:j8:98:ASN:HD22	1:j8:99:MET:N	2.07	0.52
3:A9:194:ASN:CB	5:EC:36:ALA:O	2.57	0.52
5:D9:104:ILE:O	5:D9:108:GLU:HB2	2.10	0.52
5:F9:126:THR:HA	5:F9:129:LYS:HE3	1.91	0.52
3:AA:203:GLY:HA3	3:AH:169:LEU:HD21	1.91	0.52
5:FB:46:TYR:HE2	5:EF:41:ASN:O	1.93	0.52
1:LD:178:TYR:HA	1:YG:35:PHE:CZ	2.45	0.52
1:LD:223:GLY:HA3	1:YG:53:TYR:CD2	2.45	0.52
1:LD:314:GLY:HA3	1:YG:31:LYS:HE2	1.90	0.52
2:MD:15:TYR:C	1:KK:145:LEU:HD23	2.26	0.52
1:DE:375:TRP:CE3	1:BP:367:PRO:HG2	2.45	0.52
2:GE:2:TYR:N	1:BP:150:ASN:HD21	2.08	0.52
1:KE:177:ASP:OD2	1:QQ:33:TRP:CZ2	2.63	0.52
1:SE:71:ARG:NH1	1:SE:272:SER:O	2.43	0.52
1:SE:242:THR:HG21	1:SE:246:LEU:HD12	1.92	0.52
1:TE:57:LYS:HB3	1:LG:143:GLN:HB3	1.92	0.52
1:TE:91:ILE:HD12	1:IQ:63:LEU:HD11	1.91	0.52
1:aE:58:ILE:HA	1:AR:85:TYR:O	2.10	0.52
1:aE:259:PHE:HE1	1:AR:259:PHE:HE1	1.48	0.52
5:DF:105:ILE:O	5:DF:109:PHE:HB2	2.10	0.52
5:EF:37:ASP:CB	3:AO:197:VAL:CB	2.88	0.52
1:CG:242:THR:HG21	1:CG:246:LEU:HD12	1.92	0.52
1:AG:109:LEU:O	1:RL:105:GLU:CB	2.58	0.52
1:DG:63:LEU:HD21	1:DG:154:GLY:HA3	1.91	0.52
1:QG:242:THR:HG21	1:QG:246:LEU:HD12	1.92	0.52
1:TG:130:LYS:HE3	1:TG:373:THR:HG21	1.91	0.52
1:YG:111:ARG:NE	1:CK:105:GLU:OE2	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gG:371:GLU:CD	1:AL:111:ARG:HD3	2.31	0.52
1:hG:91:ILE:HD12	1:CL:63:LEU:HD11	1.91	0.52
5:EH:140:ASP:HB3	5:CH:139:LYS:HZ3	1.75	0.52
5:CI:265:LEU:HD23	5:NO:233:GLU:H	1.72	0.52
1:AJ:162:ASP:HA	1:AJ:165:VAL:HG12	1.92	0.52
1:AJ:310:THR:C	1:JS:27:HIS:CE1	2.88	0.52
1:KJ:50:VAL:HG21	1:LP:137:ASP:OD2	2.02	0.52
1:KJ:134:ASN:ND2	1:KJ:137:ASP:OD1	2.42	0.52
1:LJ:58:ILE:CG2	1:JS:55:PHE:HE2	1.75	0.52
1:AK:375:TRP:CD2	1:KP:368:GLU:OE2	2.31	0.52
1:BK:45:MET:CG	1:jR:19:LYS:HB3	2.40	0.52
1:BK:265:ASP:OD2	2:FK:41:TYR:CE1	2.63	0.52
1:DK:134:ASN:ND2	1:DK:137:ASP:OD1	2.43	0.52
1:LK:109:LEU:HD11	1:iR:105:GLU:O	2.10	0.52
1:CL:242:THR:HG21	1:CL:246:LEU:HD12	1.92	0.52
1:AL:367:PRO:O	1:DL:377:HIS:NE2	2.38	0.52
1:IL:242:THR:HG21	1:IL:246:LEU:HD12	1.92	0.52
1:QL:128:LYS:CD	1:RR:99:MET:SD	2.92	0.52
1:YL:33:TRP:CZ2	1:QR:177:ASP:OD2	2.63	0.52
1:DP:166:LEU:HA	1:DP:169:LYS:HG2	1.90	0.52
2:FP:54:THR:OG1	2:mR:1:MET:SD	2.67	0.52
1:bQ:321:VAL:CG2	1:bQ:327:PHE:CD2	2.92	0.52
1:eQ:130:LYS:HE3	1:eQ:373:THR:HG21	1.91	0.52
1:BR:129:GLN:NE2	1:BR:159:LYS:O	2.41	0.52
1:IR:321:VAL:CG2	1:IR:327:PHE:CD2	2.92	0.52
1:aR:365:HIS:HA	1:aR:372:VAL:HG23	1.91	0.52
1:IS:290:ASN:N	1:IS:326:GLU:OE2	2.38	0.52
1:C1:98:ASN:HD22	1:C1:99:MET:H	1.56	0.51
1:D1:63:LEU:HD21	1:D1:154:GLY:HA3	1.91	0.51
2:E1:45:ILE:CG1	2:E1:46:HIS:H	2.23	0.51
1:I1:58:ILE:HA	1:JG:85:TYR:O	2.10	0.51
1:J1:85:TYR:O	1:IG:58:ILE:HA	2.10	0.51
1:J1:91:ILE:HD12	1:IG:63:LEU:HD11	1.91	0.51
1:J1:139:ARG:NH2	2:O1:17:ASP:OD2	2.44	0.51
1:K1:47:GLU:HG2	1:Y6:22:LEU:CB	2.40	0.51
1:L1:143:GLN:HB3	1:R8:57:LYS:HB3	1.92	0.51
2:M1:45:ILE:HG12	2:P3:31:SER:O	2.11	0.51
1:Q1:258:THR:HB	1:S1:256:ALA:HB1	1.92	0.51
1:R1:111:ARG:HD3	1:Q6:371:GLU:CD	2.31	0.51
1:S1:105:GLU:O	1:LJ:109:LEU:HD11	2.10	0.51
2:W1:31:SER:O	2:ZQ:45:ILE:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W1:54:THR:HG21	2:NJ:1:MET:HE1	1.90	0.51
1:X1:50:VAL:CG2	1:K8:137:ASP:HB3	2.39	0.51
1:X1:58:ILE:HA	1:J6:85:TYR:O	2.10	0.51
1:X1:177:ASP:OD2	1:IR:33:TRP:CZ2	2.63	0.51
1:Y1:57:LYS:HB3	1:b7:143:GLN:HB3	1.92	0.51
2:e1:18:SER:HB2	1:I6:358:GLY:HA2	1.92	0.51
1:f1:33:TRP:CZ2	1:C3:177:ASP:OD2	2.63	0.51
1:f1:177:ASP:OD2	1:QG:33:TRP:CZ2	2.63	0.51
5:F2:31:PHE:HB2	5:F9:46:TYR:CE1	2.44	0.51
1:C3:58:ILE:HA	1:h7:85:TYR:O	2.10	0.51
1:A3:109:LEU:O	1:h6:105:GLU:CB	2.58	0.51
1:B3:365:HIS:HA	1:B3:372:VAL:HG23	1.91	0.51
1:I3:58:ILE:HA	1:R8:85:TYR:O	2.10	0.51
1:I3:153:LEU:HD21	2:XR:4:GLY:HA3	1.92	0.51
1:J3:85:TYR:O	1:Q8:58:ILE:HA	2.10	0.51
1:Q3:360:LEU:HD23	2:P8:22:LYS:HG2	1.89	0.51
1:Q3:361:LYS:NZ	1:CR:370:ASP:OD1	2.43	0.51
1:T3:240:ILE:HG12	1:T3:344:ILE:HG12	1.92	0.51
1:Y3:130:LYS:HE3	1:Y3:373:THR:HG21	1.91	0.51
1:C4:153:LEU:HD21	2:fL:4:GLY:HA3	1.92	0.51
1:C4:242:THR:HG21	1:C4:246:LEU:HD12	1.92	0.51
1:B4:98:ASN:ND2	1:B4:99:MET:N	2.58	0.51
1:D4:240:ILE:HG12	1:D4:344:ILE:HG12	1.92	0.51
1:I4:62:LEU:HD11	2:H8:52:SER:O	2.09	0.51
1:I4:208:LEU:HD12	1:I4:391:ILE:HD11	1.89	0.51
1:J4:139:ARG:NH2	2:O4:17:ASP:OD2	2.44	0.51
2:P4:4:GLY:HA3	1:AE:153:LEU:HD21	1.92	0.51
2:W4:22:LYS:HG2	1:g8:360:LEU:HD23	1.89	0.51
1:Y4:85:TYR:HD1	1:Y4:122:GLY:HA2	1.76	0.51
1:f4:361:LYS:NZ	1:gG:370:ASP:OD1	2.43	0.51
1:g4:119:LYS:HE2	1:CD:38:LYS:CG	2.39	0.51
1:h4:365:HIS:HA	1:h4:372:VAL:HG23	1.91	0.51
2:l4:15:TYR:CZ	1:DK:133:LEU:HD12	2.45	0.51
3:A5:169:LEU:HD21	3:AH:203:GLY:HA3	1.90	0.51
5:D5:40:THR:CG2	3:AC:197:VAL:HG11	2.27	0.51
5:D5:45:TYR:HE2	5:EN:38:TYR:HB2	1.76	0.51
5:D5:104:ILE:O	5:D5:108:GLU:HB2	2.09	0.51
1:C6:370:ASP:OD1	1:gG:361:LYS:NZ	2.43	0.51
1:I6:361:LYS:NZ	1:CL:370:ASP:OD1	2.43	0.51
1:J6:105:GLU:CB	1:Z7:109:LEU:O	2.58	0.51
1:Q6:31:LYS:HE2	1:LJ:314:GLY:HA3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S6:44:THR:O	1:CS:16:LYS:HG2	2.10	0.51
1:Y6:75:LEU:HD22	2:MQ:50:LYS:HD3	1.92	0.51
1:Y6:153:LEU:HD21	2:PG:4:GLY:HA3	1.92	0.51
1:Y6:242:THR:HG21	1:Y6:246:LEU:HD12	1.92	0.51
1:g6:136:ASN:ND2	1:AP:99:MET:HE2	2.24	0.51
1:g6:358:GLY:HA2	2:JE:18:SER:HB2	1.92	0.51
1:C7:30:SER:OG	1:LK:312:PRO:HG3	2.10	0.51
1:C7:58:ILE:HA	1:hR:85:TYR:O	2.10	0.51
2:H7:18:SER:HB2	1:gR:358:GLY:HA2	1.92	0.51
1:I7:58:ILE:HA	1:cQ:85:TYR:O	2.10	0.51
1:I7:63:LEU:HD11	1:cQ:91:ILE:HD12	1.91	0.51
1:I7:74:TRP:CZ3	2:iQ:32:ILE:CD1	2.89	0.51
1:I7:242:THR:HG21	1:I7:246:LEU:HD12	1.92	0.51
1:J7:139:ARG:NH2	2:O7:17:ASP:OD2	2.44	0.51
1:Q7:49:PHE:N	1:aL:137:ASP:OD2	2.42	0.51
1:S7:137:ASP:HB3	1:QR:50:VAL:CG2	2.39	0.51
1:Y7:361:LYS:NZ	1:KE:370:ASP:OD1	2.43	0.51
1:g7:71:ARG:NH1	1:g7:272:SER:O	2.43	0.51
1:g7:321:VAL:CG2	1:g7:327:PHE:CD2	2.92	0.51
1:h7:85:TYR:HD1	1:h7:122:GLY:HA2	1.76	0.51
1:C8:258:THR:HB	1:B8:256:ALA:HB1	1.92	0.51
1:A8:139:ARG:NH2	2:G8:17:ASP:OD2	2.44	0.51
1:B8:47:GLU:HG2	1:AE:22:LEU:CB	2.40	0.51
1:D8:63:LEU:HD21	1:D8:154:GLY:HA3	1.91	0.51
2:E8:45:ILE:HG12	2:X8:31:SER:O	2.11	0.51
1:I8:71:ARG:NH1	1:I8:272:SER:O	2.43	0.51
1:K8:98:ASN:ND2	1:K8:99:MET:N	2.58	0.51
1:Z8:367:PRO:O	1:b8:377:HIS:NE2	2.38	0.51
1:g8:81:PHE:HD2	1:DD:139:ARG:HD3	1.46	0.51
1:j8:240:ILE:HG12	1:j8:344:ILE:HG12	1.92	0.51
5:EB:26:GLU:HG2	5:EB:27:ARG:HD2	1.92	0.51
5:FB:126:THR:HA	5:FB:129:LYS:HE3	1.91	0.51
3:AC:48:ARG:NH2	3:AH:134:ASN:HD22	2.08	0.51
3:AC:114:PHE:CB	2:MP:51:GLN:HB3	2.39	0.51
1:AD:170:GLU:CG	1:KK:32:SER:HB3	2.40	0.51
1:AD:377:HIS:CE1	1:KK:367:PRO:O	2.62	0.51
2:ED:50:LYS:NZ	2:ED:51:GLN:O	2.43	0.51
1:KD:21:ALA:HB1	1:IS:123:ASN:ND2	2.12	0.51
1:BE:119:LYS:HD2	1:CP:36:GLY:HA3	1.92	0.51
1:FE:63:LEU:HD21	1:FE:154:GLY:HA3	1.91	0.51
1:FE:367:PRO:O	1:CP:377:HIS:CE1	2.63	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SE:321:VAL:CG2	1:SE:327:PHE:CD2	2.92	0.51
2:ZE:18:SER:HB2	1:IQ:358:GLY:HA2	1.92	0.51
1:aE:242:THR:HG21	1:aE:246:LEU:HD12	1.92	0.51
2:hE:18:SER:HB2	1:CR:358:GLY:HA2	1.92	0.51
4:BF:139:ASP:HB3	4:BM:200:SER:CB	2.40	0.51
5:DF:67:ASP:CB	5:EM:11:PHE:HB2	2.39	0.51
2:EG:45:ILE:HG12	2:XL:31:SER:O	2.10	0.51
2:HG:52:SER:O	1:YL:62:LEU:HD11	2.09	0.51
1:JG:139:ARG:NH2	2:OG:17:ASP:OD2	2.44	0.51
1:ZG:85:TYR:HD1	1:ZG:122:GLY:HA2	1.76	0.51
1:aG:28:ASP:N	1:aG:28:ASP:OD1	2.43	0.51
1:aG:45:MET:CE	1:DK:39:TRP:CZ3	2.92	0.51
1:aG:365:HIS:HA	1:aG:372:VAL:HG23	1.91	0.51
1:gG:258:THR:HB	1:iG:256:ALA:HB1	1.92	0.51
1:gG:321:VAL:CG2	1:gG:327:PHE:CD2	2.92	0.51
1:hG:139:ARG:NH2	2:mG:17:ASP:OD2	2.44	0.51
3:AI:108:THR:OG1	2:MJ:7:MET:HE2	2.09	0.51
5:DI:104:ILE:O	5:DI:108:GLU:HB2	2.09	0.51
1:DJ:134:ASN:ND2	1:DJ:137:ASP:OD1	2.43	0.51
1:DJ:354:ARG:NH1	2:FJ:24:THR:OG1	2.43	0.51
1:LJ:369:PHE:HD2	1:AS:108:MET:CE	2.02	0.51
1:AK:310:THR:C	1:KP:27:HIS:CE1	2.88	0.51
1:BK:137:ASP:OD2	1:jR:50:VAL:HG23	2.10	0.51
1:DK:350:ILE:O	2:GK:50:LYS:NZ	2.39	0.51
1:AL:139:ARG:NH2	2:GL:17:ASP:OD2	2.44	0.51
1:IL:33:TRP:CZ2	1:IQ:177:ASP:OD2	2.63	0.51
1:QL:258:THR:HB	1:SL:256:ALA:HB1	1.92	0.51
1:RL:89:TYR:HE1	1:QR:61:THR:CG2	2.16	0.51
1:RL:111:ARG:HD3	1:QR:371:GLU:CD	2.31	0.51
1:ZL:139:ARG:NH2	2:eL:17:ASP:OD2	2.44	0.51
1:aL:98:ASN:ND2	1:aL:99:MET:N	2.58	0.51
1:aL:150:ASN:HD21	2:VQ:1:MET:H2	1.57	0.51
5:DN:90:ASP:HA	5:DN:93:ARG:HB2	1.92	0.51
5:DN:105:ILE:O	5:DN:109:PHE:HB2	2.10	0.51
5:DO:116:LEU:HD22	5:EO:116:LEU:HD13	1.92	0.51
1:AP:302:ASP:OD2	1:AP:305:SER:OG	2.25	0.51
1:DP:240:ILE:HD11	1:DP:270:VAL:HG13	1.92	0.51
1:CQ:242:THR:HG21	1:CQ:246:LEU:HD12	1.92	0.51
1:IQ:242:THR:HG21	1:IQ:246:LEU:HD12	1.92	0.51
1:YQ:63:LEU:HD21	1:YQ:154:GLY:HA3	1.91	0.51
1:cQ:139:ARG:NH2	2:hQ:17:ASP:OD2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KR:107:LEU:HD12	1:KR:110:LYS:HD3	1.90	0.51
1:QR:242:THR:HG21	1:QR:246:LEU:HD12	1.92	0.51
1:TR:130:LYS:HE3	1:TR:373:THR:HG21	1.91	0.51
1:YR:242:THR:HG21	1:YR:246:LEU:HD12	1.92	0.51
1:CS:134:ASN:ND2	1:CS:137:ASP:OD1	2.43	0.51
1:IS:60:GLU:CG	1:JS:87:GLU:N	2.63	0.51
1:C1:360:LEU:HD23	2:H6:22:LYS:HG2	1.89	0.51
1:D1:98:ASN:HD22	1:D1:99:MET:N	2.07	0.51
2:H1:22:LYS:HG2	1:C6:360:LEU:HD23	1.89	0.51
1:I1:71:ARG:NH1	1:I1:272:SER:O	2.43	0.51
1:I1:360:LEU:HD22	2:PG:22:LYS:HG2	1.91	0.51
1:K1:98:ASN:ND2	1:K1:99:MET:N	2.58	0.51
1:L1:63:LEU:HD21	1:L1:154:GLY:HA3	1.91	0.51
2:W1:1:MET:SD	2:ES:54:THR:OG1	2.67	0.51
1:h1:137:ASP:HB3	1:QG:50:VAL:CG2	2.39	0.51
5:F2:31:PHE:CE2	5:F9:47:ASP:CA	2.86	0.51
1:A3:85:TYR:O	1:g7:58:ILE:HA	2.10	0.51
1:Q3:358:GLY:HA2	2:P8:18:SER:HB2	1.92	0.51
1:S3:137:ASP:HB3	1:CR:50:VAL:CG2	2.39	0.51
1:T3:60:GLU:OE2	1:LR:351:LYS:NZ	2.43	0.51
1:T3:63:LEU:HD21	1:T3:154:GLY:HA3	1.91	0.51
1:b3:109:LEU:O	1:LD:105:GLU:CB	2.59	0.51
2:c3:45:ILE:HG12	2:W4:31:SER:O	2.11	0.51
1:C4:360:LEU:HD22	2:XG:22:LYS:HG2	1.91	0.51
1:I4:58:ILE:HA	1:A8:85:TYR:O	2.10	0.51
1:J4:85:TYR:O	1:C8:58:ILE:HA	2.10	0.51
2:P4:22:LYS:HG2	1:C8:360:LEU:HD22	1.91	0.51
1:R4:111:ARG:HD3	1:g8:371:GLU:CD	2.31	0.51
1:T4:130:LYS:HE3	1:T4:373:THR:HG21	1.91	0.51
2:U4:5:ASN:O	1:BS:153:LEU:HD12	2.10	0.51
2:W4:18:SER:HB2	1:g8:358:GLY:HA2	1.92	0.51
1:X4:58:ILE:HA	1:Z8:85:TYR:O	2.10	0.51
1:Z4:28:ASP:N	1:Z4:28:ASP:OD1	2.43	0.51
1:i4:20:SER:HB2	1:BD:47:GLU:OE1	2.09	0.51
1:i4:370:ASP:CG	1:CD:361:LYS:NZ	2.68	0.51
4:B5:139:ASP:HB3	4:BN:200:SER:CB	2.40	0.51
1:J6:139:ARG:NH2	2:O6:17:ASP:OD2	2.44	0.51
1:K6:28:ASP:N	1:K6:28:ASP:OD1	2.42	0.51
1:K6:150:ASN:HD21	2:lG:1:MET:H2	1.57	0.51
1:Q6:242:THR:HG21	1:Q6:246:LEU:HD12	1.92	0.51
1:Q6:367:PRO:HB2	1:LJ:375:TRP:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S6:21:ALA:HA	1:AS:123:ASN:HD21	1.76	0.51
1:T6:98:ASN:HD22	1:T6:99:MET:N	2.07	0.51
1:a6:47:GLU:HG2	1:SE:22:LEU:CB	2.40	0.51
1:a6:98:ASN:ND2	1:a6:99:MET:N	2.58	0.51
2:c6:45:ILE:HG12	2:PR:31:SER:O	2.11	0.51
2:f6:18:SER:HB2	1:KE:358:GLY:HA2	1.92	0.51
1:g6:31:LYS:CE	1:LP:314:GLY:HA3	2.40	0.51
1:A7:57:LYS:HB3	1:DE:143:GLN:HB3	1.92	0.51
1:K7:98:ASN:ND2	1:K7:99:MET:N	2.58	0.51
1:R7:85:TYR:HD1	1:R7:122:GLY:HA2	1.76	0.51
1:R7:139:ARG:NH2	2:W7:17:ASP:OD2	2.44	0.51
1:S7:14:VAL:O	1:QR:44:THR:HA	2.11	0.51
1:Y7:29:TYR:HH	1:QQ:302:ASP:CG	1.99	0.51
1:Y7:63:LEU:HD11	1:JR:91:ILE:HD12	1.91	0.51
1:Y7:357:LYS:HD3	2:PR:17:ASP:HB2	1.91	0.51
1:Z7:78:GLU:OE1	2:d7:23:ARG:NH2	2.44	0.51
1:g7:22:LEU:CB	1:CE:47:GLU:HG2	2.40	0.51
1:h7:139:ARG:NH2	2:m7:17:ASP:OD2	2.44	0.51
1:Y8:361:LYS:NZ	1:bQ:370:ASP:OD1	2.43	0.51
1:a8:137:ASP:HB3	1:bQ:50:VAL:CG2	2.39	0.51
1:g8:29:TYR:CE1	1:KS:302:ASP:OD2	2.64	0.51
1:i8:98:ASN:ND2	1:i8:99:MET:N	2.58	0.51
3:AA:8:LEU:HA	5:FC:27:ARG:HD3	1.92	0.51
5:DB:116:LEU:HD22	5:EB:116:LEU:HD13	1.92	0.51
3:AC:48:ARG:H	3:AC:55:PHE:HE2	1.58	0.51
3:AC:193:ILE:HD11	3:AH:12:LEU:HD21	1.91	0.51
1:AD:100:ASP:OD2	1:YG:27:HIS:CA	2.52	0.51
1:DD:237:ASP:N	1:DD:237:ASP:OD1	2.41	0.51
1:AE:242:THR:HG21	1:AE:246:LEU:HD12	1.92	0.51
1:CE:98:ASN:ND2	1:CE:99:MET:N	2.58	0.51
2:JE:31:SER:O	2:hL:45:ILE:HG12	2.10	0.51
1:LE:105:GLU:CB	1:JQ:109:LEU:O	2.58	0.51
1:ME:365:HIS:HA	1:ME:372:VAL:HG23	1.91	0.51
1:TE:85:TYR:O	1:IQ:58:ILE:HA	2.10	0.51
1:TE:85:TYR:HD1	1:TE:122:GLY:HA2	1.76	0.51
1:TE:139:ARG:NH2	2:YE:17:ASP:OD2	2.44	0.51
1:aE:71:ARG:NH1	1:aE:272:SER:O	2.43	0.51
5:FF:27:ARG:HD3	3:AM:8:LEU:HA	1.91	0.51
1:CG:367:PRO:HD2	1:AR:108:MET:SD	2.49	0.51
1:AG:85:TYR:O	1:YL:58:ILE:HA	2.10	0.51
1:AG:91:ILE:HD12	1:YL:63:LEU:HD11	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:XG:31:SER:O	2:ER:45:ILE:HG12	2.11	0.51
2:fG:4:GLY:HA3	1:gG:153:LEU:HD21	1.92	0.51
1:hG:78:GLU:OE1	2:lG:23:ARG:NH2	2.44	0.51
1:hG:85:TYR:O	1:CL:58:ILE:HA	2.10	0.51
2:nG:32:ILE:CD1	1:CL:74:TRP:CZ3	2.89	0.51
3:AH:242:ILE:HG22	3:AN:270:ASN:HD22	1.73	0.51
5:EH:11:PHE:HB2	5:DN:67:ASP:CB	2.38	0.51
3:AI:292:SER:OG	3:AI:297:LEU:O	2.26	0.51
5:EI:41:ASN:O	5:FO:46:TYR:HE2	1.93	0.51
1:AJ:170:GLU:CG	1:JS:32:SER:HB3	2.40	0.51
1:BJ:202:PHE:HA	1:BJ:205:ILE:HB	1.92	0.51
2:HJ:40:SER:OG	1:LJ:264:ILE:C	2.53	0.51
1:BK:237:ASP:OD1	1:BK:237:ASP:N	2.43	0.51
1:BL:98:ASN:ND2	1:BL:99:MET:N	2.58	0.51
1:IL:22:LEU:CB	1:KQ:47:GLU:HG2	2.40	0.51
1:IL:98:ASN:HD22	1:IL:99:MET:H	1.56	0.51
5:DM:105:ILE:O	5:DM:109:PHE:HB2	2.10	0.51
3:AO:36:LEU:CG	1:IS:145:LEU:HD12	2.40	0.51
3:AO:153:ASP:C	1:IS:145:LEU:HD23	2.36	0.51
1:AP:210:ASN:ND2	1:LP:244:ASP:OD2	2.43	0.51
1:CP:238:ILE:HA	1:CP:346:ASP:HA	1.91	0.51
1:KP:146:ALA:O	1:KP:149:THR:OG1	2.28	0.51
1:LP:169:LYS:HG3	1:LP:172:ARG:HH21	1.75	0.51
1:AQ:139:ARG:NH2	2:GQ:17:ASP:OD2	2.44	0.51
1:BQ:14:VAL:O	1:gR:44:THR:HA	2.11	0.51
1:KQ:365:HIS:HA	1:KQ:372:VAL:HG23	1.91	0.51
1:RQ:78:GLU:OE1	2:VQ:23:ARG:NH2	2.44	0.51
1:cQ:78:GLU:OE1	2:gQ:23:ARG:NH2	2.44	0.51
1:BR:365:HIS:HA	1:BR:372:VAL:HG23	1.91	0.51
1:IR:71:ARG:NH1	1:IR:272:SER:O	2.43	0.51
1:LR:240:ILE:HG12	1:LR:344:ILE:HG12	1.92	0.51
1:ZR:139:ARG:NH2	2:eR:17:ASP:OD2	2.44	0.51
1:hR:139:ARG:NH2	2:lR:17:ASP:OD2	2.44	0.51
1:AS:134:ASN:HA	1:AS:371:GLU:HG3	1.92	0.51
1:AS:265:ASP:OD2	2:ES:41:TYR:CE1	2.63	0.51
1:IS:85:TYR:HA	1:IS:122:GLY:HA2	1.91	0.51
1:C1:153:LEU:HD21	2:P7:4:GLY:HA3	1.92	0.51
1:A1:78:GLU:OE1	2:F1:23:ARG:NH2	2.44	0.51
1:I1:22:LEU:CB	1:UE:47:GLU:HG2	2.40	0.51
1:I1:44:THR:HA	1:UE:14:VAL:O	2.11	0.51
1:I1:358:GLY:HA2	2:PG:18:SER:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q1:44:THR:HA	1:KG:14:VAL:O	2.11	0.51
1:R1:85:TYR:O	1:Q6:58:ILE:HA	2.10	0.51
1:R1:89:TYR:HE1	1:Q6:61:THR:CG2	2.16	0.51
1:R1:178:TYR:HB2	1:CJ:35:PHE:HZ	1.75	0.51
1:T1:25:PHE:O	1:LJ:100:ASP:CA	2.57	0.51
1:Y1:105:GLU:CB	1:hG:109:LEU:O	2.58	0.51
1:Z1:47:GLU:HG2	1:IR:22:LEU:CB	2.40	0.51
1:Z1:365:HIS:HA	1:Z1:372:VAL:HG23	1.91	0.51
1:f1:22:LEU:CB	1:B3:47:GLU:HG2	2.40	0.51
1:g1:139:ARG:NH2	2:l1:17:ASP:OD2	2.44	0.51
3:A2:194:ASN:CB	5:EA:36:ALA:O	2.57	0.51
4:B2:32:PHE:HD2	5:FA:55:LEU:HD11	1.64	0.51
4:B2:251:TRP:CG	3:AF:208:LYS:CE	2.94	0.51
1:C3:75:LEU:HD22	2:EQ:50:LYS:HD3	1.92	0.51
1:C3:153:LEU:HD21	2:H4:4:GLY:HA3	1.92	0.51
1:S3:28:ASP:N	1:S3:28:ASP:OD1	2.43	0.51
1:T3:351:LYS:NZ	1:dE:60:GLU:OE2	2.43	0.51
1:Y3:240:ILE:HG12	1:Y3:344:ILE:HG12	1.92	0.51
1:C4:50:VAL:CG2	1:BG:137:ASP:HB3	2.39	0.51
1:C4:361:LYS:NZ	1:aE:370:ASP:OD1	2.43	0.51
2:H4:17:ASP:HB2	1:QG:357:LYS:HD3	1.91	0.51
1:I4:75:LEU:HD22	2:UR:50:LYS:HD3	1.92	0.51
1:K4:14:VAL:O	1:QL:44:THR:HA	2.11	0.51
1:L4:63:LEU:HD21	1:L4:154:GLY:HA3	1.91	0.51
2:P4:18:SER:HB2	1:C8:358:GLY:HA2	1.92	0.51
1:Q4:50:VAL:CG2	1:KL:137:ASP:HB3	2.39	0.51
1:T4:19:LYS:HB3	1:AS:45:MET:CG	2.40	0.51
1:T4:63:LEU:HD21	1:T4:154:GLY:HA3	1.91	0.51
2:W4:1:MET:SD	2:FD:54:THR:OG1	2.67	0.51
1:X4:370:ASP:OD1	1:CR:361:LYS:NZ	2.43	0.51
1:Y4:78:GLU:OE1	2:c4:23:ARG:NH2	2.44	0.51
1:Y4:109:LEU:O	1:A6:105:GLU:CB	2.58	0.51
1:a4:98:ASN:HD22	1:a4:99:MET:N	2.07	0.51
2:e4:4:GLY:HA3	1:bQ:153:LEU:HD21	1.92	0.51
1:g4:85:TYR:O	1:YG:58:ILE:HA	2.10	0.51
1:g4:85:TYR:HD1	1:g4:122:GLY:HA2	1.75	0.51
3:A5:149:GLN:HG2	1:AJ:149:THR:HG1	1.73	0.51
5:E5:140:ASP:CB	5:C5:139:LYS:HB3	2.01	0.51
5:F5:46:TYR:CE2	5:EN:41:ASN:O	2.64	0.51
1:C6:153:LEU:HD21	2:HL:4:GLY:HA3	1.92	0.51
1:A6:78:GLU:OE1	2:F6:23:ARG:NH2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E6:45:ILE:HG12	2:P7:31:SER:O	2.11	0.51
1:I6:44:THR:HA	1:aR:14:VAL:O	2.11	0.51
1:J6:78:GLU:OE1	2:N6:23:ARG:NH2	2.44	0.51
1:R6:78:GLU:OE1	2:V6:23:ARG:NH2	2.44	0.51
1:T6:130:LYS:HE3	1:T6:373:THR:HG21	1.91	0.51
2:U6:50:LYS:HD3	1:IG:75:LEU:HD22	1.92	0.51
2:f6:31:SER:O	2:U7:45:ILE:HG12	2.10	0.51
1:g6:53:TYR:CD2	1:LP:223:GLY:HA3	2.46	0.51
1:i6:21:ALA:HA	1:BJ:123:ASN:HD21	1.76	0.51
1:i6:365:HIS:HA	1:i6:372:VAL:HG23	1.91	0.51
1:J7:89:TYR:CE1	1:bQ:61:THR:CG2	2.94	0.51
1:Q7:22:LEU:CB	1:aL:47:GLU:HG2	2.40	0.51
1:Q7:33:TRP:CZ2	1:YL:177:ASP:OD2	2.63	0.51
2:X7:52:SER:O	1:QQ:62:LEU:HD11	2.09	0.51
1:a7:14:VAL:O	1:KE:44:THR:HA	2.11	0.51
1:i7:14:VAL:O	1:C8:44:THR:HA	2.11	0.51
1:B8:98:ASN:ND2	1:B8:99:MET:N	2.58	0.51
1:I8:370:ASP:OD1	1:IR:361:LYS:NZ	2.43	0.51
1:K8:28:ASP:N	1:K8:28:ASP:OD1	2.43	0.51
1:L8:240:ILE:HG12	1:L8:344:ILE:HG12	1.92	0.51
1:Z8:85:TYR:HD1	1:Z8:122:GLY:HA2	1.75	0.51
1:a8:14:VAL:O	1:bQ:44:THR:HA	2.11	0.51
1:a8:365:HIS:HA	1:a8:372:VAL:HG23	1.91	0.51
2:c8:45:ILE:HG12	2:hE:31:SER:O	2.11	0.51
2:c8:50:LYS:HD3	1:CR:75:LEU:HD22	1.92	0.51
1:g8:20:SER:CA	1:BS:47:GLU:CG	2.79	0.51
1:g8:31:LYS:CE	1:KS:314:GLY:HA3	2.40	0.51
2:n8:4:GLY:HA3	1:IQ:153:LEU:HD21	1.92	0.51
3:A9:36:LEU:CD2	1:AK:135:ASN:HD21	2.22	0.51
3:A9:151:ASN:CA	1:AK:143:GLN:O	2.58	0.51
3:A9:197:VAL:CB	5:EC:37:ASP:CB	2.88	0.51
4:B9:251:TRP:CG	3:AB:208:LYS:CE	2.94	0.51
5:D9:116:LEU:HD22	5:E9:116:LEU:HD13	1.92	0.51
5:DB:104:ILE:O	5:DB:108:GLU:HB2	2.10	0.51
5:FB:47:ASP:CA	5:FF:31:PHE:CE2	2.86	0.51
4:BC:139:ASP:N	4:BC:139:ASP:OD1	2.40	0.51
5:EC:38:TYR:HB2	5:DH:45:TYR:HE2	1.76	0.51
1:KD:145:LEU:HB3	2:LS:15:TYR:O	2.09	0.51
2:MD:15:TYR:CB	1:KK:149:THR:HG22	2.12	0.51
2:ND:4:GLY:HA3	1:YG:153:LEU:CD2	2.37	0.51
2:JE:1:MET:SD	2:FJ:54:THR:OG1	2.67	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:71:ARG:NH1	1:KE:272:SER:O	2.43	0.51
1:KE:258:THR:HB	1:ME:256:ALA:HB1	1.92	0.51
1:SE:58:ILE:HA	1:JQ:85:TYR:O	2.10	0.51
1:TE:105:GLU:CB	1:ZR:109:LEU:O	2.58	0.51
1:bE:57:LYS:HB3	1:bL:143:GLN:HB3	1.92	0.51
1:cE:150:ASN:HD21	2:dL:1:MET:H3	1.59	0.51
5:EF:37:ASP:OD2	3:AO:197:VAL:HG23	2.11	0.51
1:CG:319:TYR:HE1	1:ZL:95:VAL:HG21	1.76	0.51
1:AG:99:MET:SD	1:YL:128:LYS:CD	2.92	0.51
1:IG:258:THR:HB	1:KG:256:ALA:HB1	1.92	0.51
1:IG:321:VAL:CG2	1:IG:327:PHE:CD2	2.92	0.51
1:LG:63:LEU:HD21	1:LG:154:GLY:HA3	1.91	0.51
1:RG:109:LEU:O	1:ZL:105:GLU:CB	2.58	0.51
1:aG:45:MET:CE	1:DK:39:TRP:HZ3	2.24	0.51
1:gG:61:THR:CG2	1:AL:89:TYR:CE1	2.94	0.51
1:hG:85:TYR:HD1	1:hG:122:GLY:HA2	1.76	0.51
1:iG:28:ASP:N	1:iG:28:ASP:OD1	2.43	0.51
2:nG:18:SER:HB2	1:CL:358:GLY:HA2	1.92	0.51
3:AH:8:LEU:HA	5:FN:27:ARG:HD3	1.91	0.51
5:CH:266:THR:CG2	5:NN:230:SER:HA	2.40	0.51
3:AI:112:ILE:CB	2:MJ:6:ASN:N	2.54	0.51
5:EI:36:ALA:O	3:AN:194:ASN:CB	2.57	0.51
1:BJ:265:ASP:OD2	2:FJ:41:TYR:CE1	2.63	0.51
1:DJ:304:GLN:HG3	1:LP:28:ASP:HB3	1.92	0.51
1:AK:123:ASN:ND2	1:KP:21:ALA:HB1	2.12	0.51
1:CK:54:LEU:HD23	1:hR:116:MET:SD	2.50	0.51
1:JL:139:ARG:NH2	2:OL:17:ASP:OD2	2.44	0.51
1:RL:85:TYR:O	1:QR:58:ILE:HA	2.10	0.51
2:XL:53:PHE:O	1:QR:62:LEU:HD11	2.03	0.51
1:ZL:78:GLU:OE1	2:dL:23:ARG:NH2	2.44	0.51
2:cL:44:GLN:OE1	2:cL:44:GLN:HA	2.02	0.51
2:cL:45:ILE:HG12	2:HR:31:SER:O	2.10	0.51
5:DM:116:LEU:HD22	5:EM:116:LEU:HD13	1.92	0.51
5:FN:126:THR:HA	5:FN:129:LYS:HE3	1.91	0.51
3:AO:66:ILE:HG23	1:IS:150:ASN:ND2	2.26	0.51
3:AO:287:PRO:HA	3:AO:290:PHE:HD2	1.76	0.51
1:BP:265:ASP:OD2	2:FP:41:TYR:CE1	2.63	0.51
1:DP:265:ASP:HB2	2:GP:41:TYR:HA	1.92	0.51
1:DP:348:ASN:H	2:GP:50:LYS:HE2	1.75	0.51
1:BQ:47:GLU:HG2	1:gR:22:LEU:CB	2.40	0.51
1:BQ:365:HIS:HA	1:BQ:372:VAL:HG23	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IQ:75:LEU:HD22	2:cR:50:LYS:HD3	1.92	0.51
1:QQ:208:LEU:HD12	1:QQ:391:ILE:HD11	1.89	0.51
1:QQ:321:VAL:CG2	1:QQ:327:PHE:CD2	2.92	0.51
1:RR:78:GLU:OE1	2:VR:23:ARG:NH2	2.44	0.51
1:gR:242:THR:HG21	1:gR:246:LEU:HD12	1.92	0.51
1:hR:78:GLU:OE1	2:kR:23:ARG:NH2	2.44	0.51
2:DS:50:LYS:NZ	2:DS:51:GLN:O	2.43	0.51
2:GS:40:SER:OG	1:KS:264:ILE:C	2.53	0.51
1:A1:105:GLU:CB	1:ZG:109:LEU:O	2.58	0.51
2:E1:45:ILE:HG12	2:HL:31:SER:O	2.11	0.51
1:I1:370:ASP:OD1	1:SE:361:LYS:NZ	2.43	0.51
1:Q1:63:LEU:HD11	1:R6:91:ILE:HD12	1.91	0.51
1:R1:78:GLU:OE1	2:U1:23:ARG:NH2	2.44	0.51
2:W1:53:PHE:O	1:Q6:62:LEU:HD11	2.03	0.51
1:X1:167:GLU:OE2	1:X1:352:TYR:OH	2.26	0.51
2:m1:31:SER:O	2:E7:45:ILE:HG12	2.10	0.51
3:A2:287:PRO:HA	3:A2:290:PHE:HD2	1.76	0.51
5:E2:41:ASN:O	5:F9:46:TYR:CE2	2.64	0.51
5:E2:57:GLU:HA	4:BF:33:TYR:CZ	2.37	0.51
5:N2:230:SER:HA	5:CB:266:THR:CG2	2.40	0.51
2:E3:45:ILE:HG12	2:n6:31:SER:O	2.11	0.51
1:I3:358:GLY:HA2	2:X8:18:SER:HB2	1.92	0.51
1:J3:78:GLU:OE1	2:N3:23:ARG:NH2	2.44	0.51
1:K3:14:VAL:O	1:I4:44:THR:HA	2.11	0.51
2:P3:18:SER:HB2	1:Q8:358:GLY:HA2	1.92	0.51
1:Q3:44:THR:HA	1:Z4:14:VAL:O	2.11	0.51
1:Q3:61:THR:CG2	1:J8:89:TYR:CE1	2.94	0.51
1:Q3:370:ASP:OD1	1:X4:361:LYS:NZ	2.43	0.51
1:R3:78:GLU:OE1	2:V3:23:ARG:NH2	2.44	0.51
2:X3:22:LYS:HG2	1:I8:360:LEU:HD22	1.91	0.51
1:Y3:375:TRP:CE3	1:BK:367:PRO:HG2	2.45	0.51
2:d3:11:MET:HE2	1:BD:372:VAL:HG23	1.91	0.51
1:C4:22:LEU:CB	1:BG:47:GLU:HG2	2.40	0.51
1:B4:14:VAL:O	1:aE:44:THR:HA	2.11	0.51
1:I4:258:THR:HB	1:K4:256:ALA:HB1	1.92	0.51
2:P4:31:SER:O	2:k6:45:ILE:HG12	2.11	0.51
1:Q4:258:THR:HB	1:S4:256:ALA:HB1	1.92	0.51
1:Q4:321:VAL:CG2	1:Q4:327:PHE:CD2	2.92	0.51
1:Q4:357:LYS:HD3	2:n8:17:ASP:HB2	1.91	0.51
1:Q4:358:GLY:HA2	2:n8:18:SER:HB2	1.92	0.51
1:X4:75:LEU:HD22	2:M8:50:LYS:HD3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f4:314:GLY:HA3	1:gG:31:LYS:NZ	2.26	0.51
1:h4:14:VAL:O	1:gG:44:THR:HA	2.11	0.51
1:h4:137:ASP:HB3	1:gG:50:VAL:CG2	2.39	0.51
1:i4:50:VAL:HG23	1:BD:137:ASP:OD2	2.10	0.51
1:i4:367:PRO:O	1:CD:377:HIS:CE1	2.63	0.51
5:D5:116:LEU:HD22	5:E5:116:LEU:HD13	1.92	0.51
5:F5:31:PHE:CE2	5:FI:47:ASP:CA	2.86	0.51
1:C6:33:TRP:CZ2	1:gG:177:ASP:OD2	2.63	0.51
1:D6:63:LEU:HD21	1:D6:154:GLY:HA3	1.91	0.51
1:I6:22:LEU:CB	1:aR:47:GLU:HG2	2.40	0.51
1:I6:153:LEU:HD21	2:PL:4:GLY:HA3	1.92	0.51
1:I6:242:THR:HG21	1:I6:246:LEU:HD12	1.92	0.51
1:Q6:29:TYR:HD2	1:LJ:317:PHE:CZ	2.23	0.51
1:Y6:63:LEU:HD11	1:LE:91:ILE:HD12	1.91	0.51
1:Y6:361:LYS:NZ	1:SE:370:ASP:OD1	2.43	0.51
1:Z6:105:GLU:CB	1:R7:109:LEU:O	2.58	0.51
1:a6:14:VAL:O	1:SE:44:THR:HA	2.11	0.51
1:g6:35:PHE:CE1	1:LP:178:TYR:CD1	2.97	0.51
1:g6:71:ARG:NH1	1:g6:272:SER:O	2.43	0.51
1:g6:143:GLN:CA	1:LP:82:ILE:HG12	2.19	0.51
1:g6:367:PRO:HB2	1:LP:375:TRP:HB2	1.92	0.51
1:h6:91:ILE:HD12	1:AE:63:LEU:HD11	1.91	0.51
1:j6:101:LEU:O	1:CJ:111:ARG:NH2	2.44	0.51
1:A7:105:GLU:CB	1:cQ:109:LEU:O	2.58	0.51
1:B7:365:HIS:HA	1:B7:372:VAL:HG23	1.91	0.51
1:I7:358:GLY:HA2	2:iQ:18:SER:HB2	1.92	0.51
1:K7:28:ASP:N	1:K7:28:ASP:OD1	2.42	0.51
1:Q7:58:ILE:HA	1:RQ:85:TYR:O	2.10	0.51
1:Q7:358:GLY:HA2	2:XQ:18:SER:HB2	1.92	0.51
1:R7:89:TYR:CE1	1:QQ:61:THR:CG2	2.94	0.51
1:S7:47:GLU:HG2	1:QR:22:LEU:CB	2.40	0.51
1:g7:33:TRP:CZ2	1:AE:177:ASP:OD2	2.63	0.51
1:g7:44:THR:HA	1:CE:14:VAL:O	2.11	0.51
1:g7:177:ASP:OD2	1:C8:33:TRP:CZ2	2.63	0.51
1:h7:78:GLU:OE1	2:l7:23:ARG:NH2	2.44	0.51
1:h7:105:GLU:CB	1:AQ:109:LEU:O	2.58	0.51
1:i7:47:GLU:HG2	1:C8:22:LEU:CB	2.40	0.51
1:C8:71:ARG:NH1	1:C8:272:SER:O	2.43	0.51
1:Q8:361:LYS:NZ	1:IG:370:ASP:OD1	2.43	0.51
1:R8:78:GLU:OE1	2:V8:23:ARG:NH2	2.44	0.51
1:S8:14:VAL:O	1:IG:44:THR:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S8:137:ASP:HB3	1:IG:50:VAL:CG2	2.39	0.51
1:Y8:314:GLY:HA3	1:bQ:31:LYS:NZ	2.26	0.51
1:g8:32:SER:O	1:KS:382:LYS:CE	2.54	0.51
1:g8:136:ASN:ND2	1:IS:99:MET:HE2	2.25	0.51
3:A9:48:ARG:H	3:A9:55:PHE:HE2	1.58	0.51
3:A9:194:ASN:HD22	4:BC:3:ARG:CB	2.12	0.51
5:E9:37:ASP:CB	3:AB:197:VAL:CB	2.88	0.51
5:E9:41:ASN:O	5:FA:46:TYR:CE2	2.64	0.51
3:AA:194:ASN:HD21	4:BH:3:ARG:CA	2.22	0.51
3:AA:194:ASN:CB	5:EH:36:ALA:O	2.57	0.51
5:EB:36:ALA:O	3:AM:194:ASN:OD1	2.21	0.51
3:AC:197:VAL:CB	5:EN:37:ASP:CB	2.88	0.51
1:AD:145:LEU:CB	3:AF:37:GLU:CB	2.77	0.51
1:DD:315:ALA:N	1:KS:31:LYS:CG	2.57	0.51
1:DD:348:ASN:H	2:GD:50:LYS:HE2	1.75	0.51
1:LD:27:HIS:CD2	1:DK:312:PRO:HD3	2.46	0.51
1:LD:375:TRP:CG	1:YG:367:PRO:HB2	2.45	0.51
2:MD:15:TYR:CE1	1:KK:148:ALA:HB1	2.45	0.51
1:DE:81:PHE:HD2	1:BP:139:ARG:CD	2.12	0.51
2:JE:3:GLU:C	1:DJ:153:LEU:HD21	2.34	0.51
1:KE:314:GLY:HA3	1:QQ:31:LYS:NZ	2.26	0.51
2:OE:45:ILE:HG12	2:PG:31:SER:O	2.11	0.51
1:TE:78:GLU:OE1	2:XE:23:ARG:NH2	2.44	0.51
1:aE:81:PHE:HE2	1:CG:139:ARG:HD2	1.63	0.51
1:aE:150:ASN:CG	2:XG:2:TYR:HB3	2.32	0.51
1:bE:78:GLU:OE1	2:fE:23:ARG:NH2	2.44	0.51
1:cE:14:VAL:O	1:CG:44:THR:HA	2.11	0.51
5:FF:46:TYR:HE2	5:EM:41:ASN:O	1.93	0.51
1:IG:208:LEU:HD12	1:IG:391:ILE:HD11	1.89	0.51
1:ZG:78:GLU:OE1	2:dG:23:ARG:NH2	2.44	0.51
4:BH:202:GLN:HB3	4:BN:137:ASN:HA	1.90	0.51
1:AJ:355:TYR:HB3	1:AJ:379:TYR:HB3	1.92	0.51
1:DJ:240:ILE:HD11	1:DJ:270:VAL:HG13	1.92	0.51
1:KJ:32:SER:OG	1:AP:170:GLU:CG	2.58	0.51
1:LJ:28:ASP:HB3	1:CS:304:GLN:HG3	1.92	0.51
1:AK:82:ILE:CG1	1:KP:144:THR:H	2.04	0.51
1:AK:302:ASP:OD2	1:AK:305:SER:OG	2.25	0.51
1:BK:202:PHE:HA	1:BK:205:ILE:HB	1.93	0.51
1:LK:209:GLN:HE22	1:LK:235:LEU:HB3	1.74	0.51
1:AL:85:TYR:HD1	1:AL:122:GLY:HA2	1.76	0.51
1:ZL:367:PRO:O	1:bL:377:HIS:NE2	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FM:27:ARG:HD3	3:AO:8:LEU:HA	1.92	0.51
1:DP:134:ASN:ND2	1:DP:137:ASP:OD1	2.43	0.51
1:CQ:361:LYS:NZ	1:gR:370:ASP:OD1	2.43	0.51
1:cQ:85:TYR:HD1	1:cQ:122:GLY:HA2	1.76	0.51
1:dQ:28:ASP:N	1:dQ:28:ASP:OD1	2.43	0.51
1:AR:85:TYR:HD1	1:AR:122:GLY:HA2	1.76	0.51
1:AR:139:ARG:NH2	2:GR:17:ASP:OD2	2.44	0.51
1:TR:98:ASN:HD22	1:TR:99:MET:N	2.07	0.51
1:IS:162:ASP:HA	1:IS:165:VAL:HG12	1.92	0.51
1:C1:361:LYS:NZ	1:Y8:370:ASP:OD1	2.43	0.51
1:I1:33:TRP:CZ2	1:SE:177:ASP:OD2	2.63	0.51
1:L1:240:ILE:HG12	1:L1:344:ILE:HG12	1.92	0.51
2:P1:4:GLY:HA3	1:Q1:153:LEU:HD21	1.92	0.51
2:P1:18:SER:HB2	1:IG:358:GLY:HA2	1.92	0.51
1:Q1:358:GLY:HA2	2:X6:18:SER:HB2	1.92	0.51
1:R1:119:LYS:HG3	1:CJ:36:GLY:HA3	1.91	0.51
1:T1:367:PRO:O	1:CJ:377:HIS:CE1	2.63	0.51
2:U1:5:ASN:C	1:CJ:153:LEU:HD11	2.34	0.51
1:Y1:89:TYR:CE1	1:I6:61:THR:CG2	2.94	0.51
1:Y1:95:VAL:HG21	1:I6:319:TYR:HE1	1.76	0.51
1:Y1:139:ARG:NH2	2:d1:17:ASP:OD2	2.44	0.51
2:b1:45:ILE:HG12	2:PL:31:SER:O	2.10	0.51
1:f1:31:LYS:NZ	1:C3:314:GLY:HA3	2.26	0.51
1:f1:98:ASN:HD22	1:f1:99:MET:H	1.56	0.51
1:f1:358:GLY:HA2	2:HQ:18:SER:HB2	1.92	0.51
1:g1:91:ILE:HD12	1:CQ:63:LEU:HD11	1.91	0.51
2:m1:4:GLY:HA3	1:gR:153:LEU:HD21	1.92	0.51
5:E2:57:GLU:HG2	4:BF:33:TYR:HE1	1.76	0.51
1:B3:98:ASN:ND2	1:B3:99:MET:N	2.58	0.51
2:H3:18:SER:HB2	1:g7:358:GLY:HA2	1.92	0.51
1:I3:208:LEU:CD1	1:I3:391:ILE:HD12	1.95	0.51
1:K3:98:ASN:ND2	1:K3:99:MET:N	2.58	0.51
1:K3:365:HIS:HA	1:K3:372:VAL:HG23	1.91	0.51
2:P3:22:LYS:HG2	1:Q8:360:LEU:HD23	1.89	0.51
1:Q3:71:ARG:NH1	1:Q3:272:SER:O	2.43	0.51
1:Q3:258:THR:HB	1:S3:256:ALA:HB1	1.92	0.51
1:R3:85:TYR:O	1:I8:58:ILE:HA	2.10	0.51
1:S3:47:GLU:HG2	1:CR:22:LEU:CB	2.40	0.51
2:V3:1:MET:H2	1:KR:150:ASN:HD21	1.57	0.51
1:C4:370:ASP:OD1	1:CG:361:LYS:NZ	2.43	0.51
1:C4:371:GLU:CD	1:RG:111:ARG:HD3	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:321:VAL:CG2	1:I4:327:PHE:CD2	2.92	0.51
1:I4:358:GLY:HA2	2:H8:18:SER:HB2	1.92	0.51
1:I4:360:LEU:HD23	2:H8:22:LYS:HG2	1.88	0.51
2:M4:50:LYS:HD3	1:g7:75:LEU:HD22	1.92	0.51
1:Q4:128:LYS:CD	1:h8:99:MET:SD	2.92	0.51
1:R4:119:LYS:HD2	1:BS:36:GLY:HA3	1.92	0.51
1:S4:106:GLU:HA	1:KS:109:LEU:CD1	2.40	0.51
1:T4:145:LEU:HD21	2:GS:17:ASP:OD2	2.10	0.51
2:W4:54:THR:HG21	2:MS:1:MET:HE1	1.90	0.51
1:D6:98:ASN:HD22	1:D6:99:MET:N	2.07	0.51
1:S6:57:LYS:CG	1:CS:143:GLN:HE21	1.83	0.51
1:T6:240:ILE:HG12	1:T6:344:ILE:HG12	1.92	0.51
1:Y6:177:ASP:OD2	1:SE:33:TRP:CZ2	2.63	0.51
2:f6:25:GLU:HG3	1:KE:70:ASN:HD22	1.74	0.51
1:g6:30:SER:OG	1:LP:312:PRO:HG3	2.09	0.51
1:g6:70:ASN:HD22	2:JE:25:GLU:HG3	1.74	0.51
1:g6:258:THR:HB	1:i6:256:ALA:HB1	1.92	0.51
1:j6:98:ASN:HD22	1:j6:99:MET:N	2.07	0.51
1:C7:128:LYS:CD	1:hR:99:MET:SD	2.92	0.51
1:C7:367:PRO:HB2	1:LK:375:TRP:HB2	1.92	0.51
1:A7:95:VAL:HG21	1:gR:319:TYR:HE1	1.76	0.51
1:J7:78:GLU:OE1	2:N7:23:ARG:NH2	2.44	0.51
1:J7:85:TYR:HD1	1:J7:122:GLY:HA2	1.76	0.51
1:J7:91:ILE:HD12	1:bQ:63:LEU:HD11	1.91	0.51
2:P7:22:LYS:HG2	1:bQ:360:LEU:HD22	1.91	0.51
1:Q7:81:PHE:HE2	1:QR:139:ARG:HD2	1.63	0.51
1:Q7:319:TYR:HE1	1:RQ:95:VAL:HG21	1.76	0.51
1:R7:95:VAL:HG21	1:QQ:319:TYR:HE1	1.76	0.51
1:S7:28:ASP:N	1:S7:28:ASP:OD1	2.42	0.51
2:X7:17:ASP:HB2	1:QQ:357:LYS:HD3	1.91	0.51
1:g7:370:ASP:OD1	1:AE:361:LYS:NZ	2.43	0.51
2:n7:31:SER:O	2:EQ:45:ILE:HG12	2.10	0.51
1:D8:240:ILE:HG12	1:D8:344:ILE:HG12	1.92	0.51
2:H8:4:GLY:HA3	1:QL:153:LEU:HD21	1.92	0.51
1:J8:109:LEU:O	1:Z8:105:GLU:CB	2.58	0.51
1:Q8:258:THR:HB	1:S8:256:ALA:HB1	1.92	0.51
1:i8:44:THR:O	1:DD:16:LYS:HG2	2.10	0.51
2:k8:45:ILE:HG12	2:fR:31:SER:O	2.11	0.51
3:A9:194:ASN:HD21	4:BC:3:ARG:CA	2.22	0.51
4:B9:3:ARG:CA	3:AB:194:ASN:HD21	2.22	0.51
5:D9:105:ILE:O	5:D9:109:PHE:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EA:41:ASN:O	5:FC:46:TYR:CE2	2.64	0.51
1:BD:202:PHE:HA	1:BD:205:ILE:HB	1.93	0.51
1:DD:265:ASP:HB2	2:GD:41:TYR:HA	1.92	0.51
1:DD:354:ARG:NH1	2:FD:24:THR:OG1	2.43	0.51
1:KD:27:HIS:CE1	1:IS:310:THR:C	2.88	0.51
1:KD:148:ALA:HB1	2:LS:15:TYR:CE1	2.45	0.51
1:LD:28:ASP:O	1:BK:98:ASN:N	2.41	0.51
1:LD:57:LYS:NZ	1:KK:61:THR:HG21	2.24	0.51
1:AE:258:THR:HB	1:CE:256:ALA:HB1	1.92	0.51
1:NE:98:ASN:HD22	1:NE:99:MET:N	2.07	0.51
2:RE:31:SER:O	2:MQ:45:ILE:HG12	2.11	0.51
1:SE:358:GLY:HA2	2:PQ:18:SER:HB2	1.92	0.51
1:aE:75:LEU:HD22	2:cL:50:LYS:HD3	1.92	0.51
1:bE:95:VAL:HG21	1:CR:319:TYR:HE1	1.76	0.51
1:cE:365:HIS:HA	1:cE:372:VAL:HG23	1.91	0.51
3:AF:48:ARG:H	3:AF:55:PHE:HE2	1.58	0.51
5:FF:55:LEU:HD11	4:BO:32:PHE:HD2	1.64	0.51
5:FF:126:THR:HA	5:FF:129:LYS:HE3	1.91	0.51
1:CG:71:ARG:NH1	1:CG:272:SER:O	2.43	0.51
1:CG:167:GLU:OE2	1:CG:352:TYR:OH	2.26	0.51
1:DG:240:ILE:HG12	1:DG:344:ILE:HG12	1.92	0.51
2:HG:17:ASP:HB2	1:YL:357:LYS:HD3	1.91	0.51
1:QG:71:ARG:NH1	1:QG:272:SER:O	2.43	0.51
1:QG:258:THR:HB	1:SG:256:ALA:HB1	1.92	0.51
1:QG:321:VAL:CG2	1:QG:327:PHE:CD2	2.92	0.51
1:RG:85:TYR:HD1	1:RG:122:GLY:HA2	1.76	0.51
1:TG:63:LEU:HD21	1:TG:154:GLY:HA3	1.91	0.51
1:ZG:139:ARG:NH2	2:eG:17:ASP:OD2	2.44	0.51
1:gG:63:LEU:HD11	1:AL:91:ILE:HD12	1.91	0.51
5:EH:41:ASN:O	5:FN:46:TYR:HE2	1.93	0.51
4:BI:200:SER:CB	4:BO:139:ASP:HB3	2.40	0.51
1:BJ:134:ASN:HA	1:BJ:371:GLU:HG3	1.92	0.51
1:DJ:350:ILE:O	2:GJ:50:LYS:NZ	2.39	0.51
1:KJ:105:GLU:CD	1:CS:109:LEU:HG	2.35	0.51
1:AK:377:HIS:CE1	1:KP:367:PRO:O	2.62	0.51
1:BL:14:VAL:O	1:YR:44:THR:HA	2.11	0.51
1:IL:31:LYS:NZ	1:IQ:314:GLY:HA3	2.26	0.51
1:RL:78:GLU:OE1	2:VL:23:ARG:NH2	2.44	0.51
1:RL:109:LEU:O	1:RQ:105:GLU:CB	2.58	0.51
1:RL:139:ARG:NH2	2:WL:17:ASP:OD2	2.44	0.51
1:YL:370:ASP:OD1	1:QR:361:LYS:NZ	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZL:57:LYS:HB3	1:TQ:143:GLN:HB3	1.92	0.51
1:ZL:85:TYR:HD1	1:ZL:122:GLY:HA2	1.76	0.51
3:AM:109:LYS:N	2:LS:19:ARG:CZ	2.71	0.51
3:AM:287:PRO:HA	3:AM:290:PHE:HD2	1.76	0.51
5:DM:45:TYR:HE2	5:EO:38:TYR:HB2	1.75	0.51
1:AQ:78:GLU:OE1	2:FQ:23:ARG:NH2	2.44	0.51
1:KQ:98:ASN:ND2	1:KQ:99:MET:N	2.58	0.51
1:YQ:240:ILE:HG12	1:YQ:344:ILE:HG12	1.92	0.51
2:ER:45:ILE:CG1	2:ER:46:HIS:H	2.23	0.51
1:ZR:78:GLU:OE1	2:dR:23:ARG:NH2	2.44	0.51
1:C1:31:LYS:NZ	1:bQ:314:GLY:HA3	2.26	0.51
1:C1:33:TRP:CZ2	1:bQ:177:ASP:OD2	2.63	0.51
1:C1:314:GLY:HA3	1:Y8:31:LYS:NZ	2.26	0.51
1:J1:57:LYS:HB3	1:NE:143:GLN:HB3	1.92	0.51
1:Q1:167:GLU:OE2	1:Q1:352:TYR:OH	2.26	0.51
1:R1:95:VAL:HG21	1:Q6:319:TYR:HE1	1.76	0.51
1:R1:119:LYS:HD2	1:CJ:36:GLY:HA3	1.92	0.51
1:R1:139:ARG:NH2	2:V1:17:ASP:OD2	2.44	0.51
1:T1:50:VAL:HG23	1:BJ:137:ASP:OD2	2.10	0.51
1:f1:62:LEU:HD11	2:HQ:52:SER:O	2.09	0.51
3:A2:197:VAL:HG23	5:EA:37:ASP:OD2	2.11	0.51
5:E2:37:ASP:OD2	3:AF:197:VAL:HG23	2.11	0.51
5:E2:37:ASP:CB	3:AF:197:VAL:CB	2.88	0.51
1:A3:89:TYR:CE1	1:g7:61:THR:CG2	2.94	0.51
1:A3:105:GLU:CB	1:J4:109:LEU:O	2.58	0.51
2:H3:4:GLY:HA3	1:C8:153:LEU:HD21	1.92	0.51
1:I3:75:LEU:HD22	2:E8:50:LYS:HD3	1.92	0.51
1:I3:361:LYS:NZ	1:I4:370:ASP:OD1	2.43	0.51
1:K3:137:ASP:HB3	1:I4:50:VAL:CG2	2.39	0.51
1:Q3:22:LEU:CB	1:Z4:47:GLU:HG2	2.40	0.51
1:Q3:58:ILE:HA	1:J8:85:TYR:O	2.10	0.51
1:Q3:62:LEU:HD11	2:P8:52:SER:O	2.09	0.51
1:Q3:62:LEU:HD11	2:P8:53:PHE:O	2.03	0.51
1:Q3:75:LEU:HD22	2:eE:50:LYS:HD3	1.92	0.51
1:S3:98:ASN:ND2	1:S3:99:MET:N	2.58	0.51
2:Z3:50:LYS:HD3	1:YG:75:LEU:HD22	1.92	0.51
2:a3:2:TYR:N	1:BK:150:ASN:HD21	2.08	0.51
1:C4:314:GLY:HA3	1:aE:31:LYS:NZ	2.26	0.51
1:A4:91:ILE:HD12	1:QG:63:LEU:HD11	1.91	0.51
2:H4:18:SER:HB2	1:QG:358:GLY:HA2	1.92	0.51
1:J4:85:TYR:HD1	1:J4:122:GLY:HA2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K4:98:ASN:ND2	1:K4:99:MET:N	2.58	0.51
1:Q4:71:ARG:NH1	1:Q4:272:SER:O	2.43	0.51
1:R4:85:TYR:HD1	1:R4:122:GLY:HA2	1.76	0.51
1:R4:139:ARG:NH2	2:V4:17:ASP:OD2	2.44	0.51
1:S4:365:HIS:HA	1:S4:372:VAL:HG23	1.91	0.51
1:T4:367:PRO:O	1:BS:377:HIS:CE1	2.63	0.51
1:X4:22:LEU:CB	1:BR:47:GLU:HG2	2.40	0.51
1:Y4:139:ARG:NH2	2:d4:17:ASP:OD2	2.44	0.51
2:e4:31:SER:O	2:M7:45:ILE:HG12	2.10	0.51
1:f4:370:ASP:OD1	1:C6:361:LYS:NZ	2.43	0.51
1:C6:31:LYS:NZ	1:gG:314:GLY:HA3	2.26	0.51
1:C6:167:GLU:OE2	1:C6:352:TYR:OH	2.26	0.51
1:D6:240:ILE:HG12	1:D6:344:ILE:HG12	1.92	0.51
1:I6:370:ASP:OD1	1:YR:361:LYS:NZ	2.43	0.51
1:K6:47:GLU:HG2	1:CL:22:LEU:CB	2.40	0.51
2:P6:4:GLY:HA3	1:IR:153:LEU:HD21	1.92	0.51
1:S6:45:MET:CE	1:CS:39:TRP:HZ3	2.24	0.51
1:Y6:258:THR:HB	1:a6:256:ALA:HB1	1.92	0.51
1:g6:367:PRO:HB2	1:LP:375:TRP:CG	2.45	0.51
1:h6:78:GLU:OE1	2:l6:23:ARG:NH2	2.44	0.51
1:i6:45:MET:CE	1:DJ:39:TRP:HZ3	2.24	0.51
1:j6:130:LYS:HE3	1:j6:373:THR:HG21	1.91	0.51
1:C7:167:GLU:OE2	1:C7:352:TYR:OH	2.26	0.51
1:C7:310:THR:O	1:DP:27:HIS:ND1	2.37	0.51
1:A7:89:TYR:CE1	1:gR:61:THR:CG2	2.94	0.51
1:A7:139:ARG:NH2	2:G7:17:ASP:OD2	2.44	0.51
1:I7:44:THR:HA	1:iR:14:VAL:O	2.11	0.51
1:I7:314:GLY:HA3	1:CQ:31:LYS:NZ	2.26	0.51
1:K7:14:VAL:O	1:CQ:44:THR:HA	2.11	0.51
1:Q7:177:ASP:OD2	1:QR:33:TRP:CZ2	2.63	0.51
2:f7:2:TYR:HB3	1:I8:150:ASN:CG	2.32	0.51
1:g7:361:LYS:NZ	1:C8:370:ASP:OD1	2.43	0.51
1:S8:98:ASN:ND2	1:S8:99:MET:N	2.58	0.51
1:S8:365:HIS:HA	1:S8:372:VAL:HG23	1.91	0.51
1:h8:78:GLU:OE1	2:l8:23:ARG:NH2	2.44	0.51
1:h8:85:TYR:HD1	1:h8:122:GLY:HA2	1.76	0.51
1:h8:105:GLU:CB	1:TE:109:LEU:O	2.58	0.51
1:j8:101:LEU:O	1:CD:111:ARG:NH2	2.44	0.51
3:A9:149:GLN:HE21	1:AK:146:ALA:HB3	1.75	0.51
5:E9:38:TYR:HB2	5:DA:45:TYR:HE2	1.76	0.51
5:E9:57:GLU:HG2	4:BB:33:TYR:HE1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:48:ARG:NH2	3:AC:134:ASN:HD22	2.07	0.51
3:AA:201:TYR:HE2	5:DN:31:PHE:HZ	1.59	0.51
3:AA:287:PRO:HA	3:AA:290:PHE:HD2	1.76	0.51
3:AB:154:ILE:HG22	1:AD:370:ASP:CB	2.41	0.51
5:DB:31:PHE:HZ	3:AO:201:TYR:HE2	1.59	0.51
5:DB:105:ILE:O	5:DB:109:PHE:HB2	2.10	0.51
3:AC:194:ASN:CB	5:EN:36:ALA:O	2.57	0.51
3:AC:208:LYS:O	4:BN:250:ILE:CG1	2.57	0.51
1:BD:265:ASP:OD2	2:FD:41:TYR:CE1	2.63	0.51
1:KD:32:SER:OG	1:IS:170:GLU:CG	2.59	0.51
1:LD:27:HIS:O	1:BK:98:ASN:CG	2.53	0.51
1:LD:197:LEU:HA	1:LD:200:LYS:HB2	1.93	0.51
1:DE:222:SER:HA	1:BP:38:LYS:HB3	1.93	0.51
1:BE:116:MET:SD	1:CP:54:LEU:HD23	2.50	0.51
1:BE:119:LYS:HE2	1:CP:38:LYS:CG	2.39	0.51
1:BE:139:ARG:NH2	2:IE:17:ASP:OD2	2.44	0.51
2:HE:15:TYR:HH	1:CP:138:THR:HG21	1.75	0.51
1:SE:75:LEU:HD22	2:MG:50:LYS:HD3	1.92	0.51
2:ZE:31:SER:O	2:cR:45:ILE:HG12	2.10	0.51
1:CG:75:LEU:HD22	2:UG:50:LYS:HD3	1.91	0.51
2:HG:18:SER:HB2	1:YL:358:GLY:HA2	1.92	0.51
1:RG:139:ARG:NH2	2:WG:17:ASP:OD2	2.44	0.51
1:bG:98:ASN:HD22	1:bG:99:MET:N	2.07	0.51
2:fG:31:SER:O	2:EL:45:ILE:HG12	2.10	0.51
1:gG:360:LEU:HD22	2:HL:22:LYS:HG2	1.91	0.51
1:iG:365:HIS:HA	1:iG:372:VAL:HG23	1.91	0.51
3:AH:155:GLU:HB2	1:AP:370:ASP:OD1	1.77	0.51
4:BI:10:ASP:OD2	5:FO:38:TYR:OH	2.25	0.51
5:EI:41:ASN:O	5:FO:46:TYR:CE2	2.64	0.51
1:AJ:222:SER:O	1:JS:53:TYR:HE1	1.90	0.51
1:DJ:109:LEU:CD1	1:KP:106:GLU:HA	1.92	0.51
1:AK:170:GLU:CG	1:KP:32:SER:OG	2.59	0.51
1:AK:297:LEU:CD1	1:KP:29:TYR:HH	1.99	0.51
1:CK:153:LEU:HD12	2:kR:5:ASN:O	2.10	0.51
1:CK:361:LYS:NZ	1:jR:370:ASP:CG	2.69	0.51
2:HK:40:SER:OG	1:LK:264:ILE:C	2.53	0.51
1:CL:167:GLU:OE2	1:CL:352:TYR:OH	2.26	0.51
1:AL:78:GLU:OE1	2:FL:23:ARG:NH2	2.44	0.51
1:BL:28:ASP:OD1	1:BL:28:ASP:N	2.42	0.51
1:IL:358:GLY:HA2	2:fR:18:SER:HB2	1.92	0.51
1:QL:63:LEU:HD11	1:RR:91:ILE:HD12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QL:167:GLU:OE2	1:QL:352:TYR:OH	2.26	0.51
1:QL:358:GLY:HA2	2:XR:18:SER:HB2	1.92	0.51
2:XL:18:SER:HB2	1:QR:358:GLY:HA2	1.92	0.51
1:YL:22:LEU:CB	1:SR:47:GLU:HG2	2.40	0.51
1:YL:50:VAL:CG2	1:SR:137:ASP:HB3	2.39	0.51
1:aL:365:HIS:HA	1:aL:372:VAL:HG23	1.91	0.51
5:DO:105:ILE:O	5:DO:109:PHE:HB2	2.10	0.51
5:EO:140:ASP:HB3	5:CO:139:LYS:HZ3	1.76	0.51
1:DP:366:ASN:HA	1:hR:108:MET:SD	2.51	0.51
2:HP:40:SER:OG	1:LP:264:ILE:C	2.53	0.51
1:IQ:258:THR:HB	1:KQ:256:ALA:HB1	1.92	0.51
1:RQ:57:LYS:HB3	1:LR:143:GLN:HB3	1.92	0.51
1:SQ:98:ASN:ND2	1:SQ:99:MET:N	2.58	0.51
1:YQ:98:ASN:HD22	1:YQ:99:MET:N	2.07	0.51
1:AR:78:GLU:OE1	2:FR:23:ARG:NH2	2.44	0.51
1:RR:85:TYR:HD1	1:RR:122:GLY:HA2	1.76	0.51
1:TR:240:ILE:HG12	1:TR:344:ILE:HG12	1.92	0.51
1:AS:202:PHE:HA	1:AS:205:ILE:HB	1.93	0.51
1:BS:350:ILE:HG13	1:BS:384:ILE:HG22	1.92	0.51
1:IS:355:TYR:HB3	1:IS:379:TYR:HB3	1.93	0.51
2:MS:41:TYR:O	8:PS:117:ALA:N	2.43	0.51
1:C1:71:ARG:NH1	1:C1:272:SER:O	2.43	0.51
1:D1:240:ILE:HG12	1:D1:344:ILE:HG12	1.92	0.51
1:I1:153:LEU:HD21	2:PQ:4:GLY:HA3	1.92	0.51
1:I1:242:THR:HG21	1:I1:246:LEU:HD12	1.92	0.51
2:M1:50:LYS:HD3	1:Q8:75:LEU:HD22	1.92	0.51
1:Q1:128:LYS:CD	1:R6:99:MET:SD	2.92	0.51
1:S1:14:VAL:O	1:Q8:44:THR:HA	2.11	0.51
1:X1:361:LYS:NZ	1:IR:370:ASP:OD1	2.43	0.51
1:X1:370:ASP:OD1	1:I8:361:LYS:NZ	2.43	0.51
1:Y1:109:LEU:O	1:JL:105:GLU:CB	2.58	0.51
1:g1:105:GLU:CB	1:A7:109:LEU:O	2.58	0.51
1:h1:47:GLU:HG2	1:QG:22:LEU:CB	2.40	0.51
4:B2:139:ASP:HB3	4:BB:200:SER:CB	2.40	0.51
5:D2:90:ASP:HA	5:D2:93:ARG:HB2	1.92	0.51
5:D2:104:ILE:O	5:D2:108:GLU:HB2	2.09	0.51
1:A3:57:LYS:HB3	1:DQ:143:GLN:HB3	1.92	0.51
1:A3:85:TYR:HD1	1:A3:122:GLY:HA2	1.75	0.51
1:I3:44:THR:HA	1:SL:14:VAL:O	2.11	0.51
1:I3:258:THR:HB	1:K3:256:ALA:HB1	1.92	0.51
1:I3:321:VAL:CG2	1:I3:327:PHE:CD2	2.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J3:109:LEU:O	1:R6:105:GLU:CB	2.58	0.51
1:Q3:31:LYS:NZ	1:X4:314:GLY:HA3	2.26	0.51
1:b3:240:ILE:HG12	1:b3:344:ILE:HG12	1.92	0.51
2:c3:45:ILE:CG1	2:c3:46:HIS:H	2.23	0.51
1:C4:208:LEU:HD12	1:C4:391:ILE:HD11	1.89	0.51
1:A4:78:GLU:OE1	2:F4:23:ARG:NH2	2.44	0.51
1:A4:85:TYR:HD1	1:A4:122:GLY:HA2	1.76	0.51
1:A4:105:GLU:CB	1:h7:109:LEU:O	2.58	0.51
2:E4:45:ILE:HG12	2:HQ:31:SER:O	2.11	0.51
1:K4:365:HIS:HA	1:K4:372:VAL:HG23	1.91	0.51
1:Q4:63:LEU:HD11	1:h8:91:ILE:HD12	1.91	0.51
1:R4:78:GLU:OE1	2:U4:23:ARG:NH2	2.44	0.51
1:X4:31:LYS:NZ	1:CR:314:GLY:HA3	2.26	0.51
1:X4:258:THR:HB	1:Z4:256:ALA:HB1	1.92	0.51
1:Y4:99:MET:SD	1:Y8:128:LYS:CD	2.92	0.51
2:b4:45:ILE:HG12	2:H6:31:SER:O	2.11	0.51
1:f4:31:LYS:NZ	1:C6:314:GLY:HA3	2.26	0.51
1:f4:128:LYS:CD	1:ZG:99:MET:SD	2.92	0.51
1:g4:78:GLU:OE1	2:j4:23:ARG:NH2	2.44	0.51
4:B5:200:SER:CB	4:BI:139:ASP:HB3	2.40	0.51
5:D5:31:PHE:HZ	3:AC:201:TYR:HE2	1.59	0.51
1:C6:71:ARG:NH1	1:C6:272:SER:O	2.43	0.51
1:K6:14:VAL:O	1:CL:44:THR:HA	2.11	0.51
1:R6:85:TYR:HD1	1:R6:122:GLY:HA2	1.76	0.51
1:Y6:357:LYS:HD3	2:RE:17:ASP:HB2	1.91	0.51
1:Z6:57:LYS:HB3	1:LQ:143:GLN:HB3	1.92	0.51
1:Z6:139:ARG:NH2	2:e6:17:ASP:OD2	2.44	0.51
1:h6:139:ARG:NH2	2:m6:17:ASP:OD2	2.44	0.51
1:j6:143:GLN:HB3	1:A8:57:LYS:HB3	1.92	0.51
1:j6:240:ILE:HG12	1:j6:344:ILE:HG12	1.92	0.51
2:n6:17:ASP:HB2	1:AE:357:LYS:HD3	1.91	0.51
1:C7:35:PHE:CZ	1:LK:178:TYR:HA	2.45	0.51
1:A7:85:TYR:HD1	1:A7:122:GLY:HA2	1.76	0.51
1:B7:45:MET:CE	1:DP:39:TRP:HZ3	2.24	0.51
1:D7:60:GLU:OE2	1:DQ:351:LYS:NZ	2.43	0.51
2:H7:31:SER:O	2:fQ:45:ILE:HG12	2.10	0.51
1:I7:22:LEU:CB	1:iR:47:GLU:HG2	2.40	0.51
1:I7:167:GLU:OE2	1:I7:352:TYR:OH	2.26	0.51
2:P7:32:ILE:CD1	1:bQ:74:TRP:CZ3	2.89	0.51
1:Q7:321:VAL:CG2	1:Q7:327:PHE:CD2	2.92	0.51
1:Q7:370:ASP:OD1	1:YL:361:LYS:NZ	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T7:351:LYS:NZ	1:TL:60:GLU:OE2	2.43	0.51
1:Y7:58:ILE:HA	1:JR:85:TYR:O	2.10	0.51
1:Y7:242:THR:HG21	1:Y7:246:LEU:HD12	1.92	0.51
1:Y7:358:GLY:HA2	2:PR:18:SER:HB2	1.92	0.51
1:g7:81:PHE:HE2	1:C8:139:ARG:HD2	1.63	0.51
1:C8:242:THR:HG21	1:C8:246:LEU:HD12	1.92	0.51
1:J8:78:GLU:OE1	2:N8:23:ARG:NH2	2.44	0.51
1:R8:109:LEU:O	1:RR:105:GLU:CB	2.58	0.51
1:i8:21:ALA:HA	1:BD:123:ASN:HD21	1.76	0.51
1:i8:45:MET:CE	1:DD:39:TRP:HZ3	2.24	0.51
2:l8:1:MET:H2	1:KL:150:ASN:HD21	1.59	0.51
3:AA:33:ASN:HD22	1:AP:55:PHE:N	2.00	0.51
3:AA:193:ILE:HD11	3:AC:12:LEU:HD21	1.91	0.51
5:EC:41:ASN:O	5:FH:46:TYR:CE2	2.64	0.51
5:EC:41:ASN:O	5:FH:46:TYR:HE2	1.93	0.51
1:AD:145:LEU:HD22	3:AF:33:ASN:CG	2.35	0.51
1:BD:134:ASN:HA	1:BD:371:GLU:HG3	1.92	0.51
1:CD:238:ILE:HA	1:CD:346:ASP:HA	1.91	0.51
1:CD:350:ILE:HG13	1:CD:384:ILE:HG22	1.92	0.51
1:KD:32:SER:HB3	1:IS:170:GLU:CG	2.40	0.51
1:LE:78:GLU:OE1	2:PE:23:ARG:NH2	2.44	0.51
1:LE:139:ARG:NH2	2:QE:17:ASP:OD2	2.44	0.51
1:ME:47:GLU:HG2	1:QQ:22:LEU:CB	2.40	0.51
1:NE:130:LYS:HE3	1:NE:373:THR:HG21	1.91	0.51
1:NE:240:ILE:HG12	1:NE:344:ILE:HG12	1.92	0.51
1:SE:61:THR:CG2	1:JQ:89:TYR:CE1	2.94	0.51
5:EF:26:GLU:HG2	5:EF:27:ARG:HD2	1.92	0.51
1:AG:78:GLU:OE1	2:FG:23:ARG:NH2	2.44	0.51
1:BG:28:ASP:N	1:BG:28:ASP:OD1	2.43	0.51
1:BG:98:ASN:ND2	1:BG:99:MET:N	2.58	0.51
1:JG:109:LEU:O	1:JQ:105:GLU:CB	2.58	0.51
1:KG:98:ASN:ND2	1:KG:99:MET:N	2.58	0.51
2:MG:45:ILE:CG1	2:MG:46:HIS:H	2.23	0.51
1:RG:78:GLU:OE1	2:VG:23:ARG:NH2	2.44	0.51
1:SG:365:HIS:HA	1:SG:372:VAL:HG23	1.91	0.51
1:YG:258:THR:HB	1:aG:256:ALA:HB1	1.92	0.51
1:aG:98:ASN:ND2	1:aG:99:MET:N	2.58	0.51
5:EH:41:ASN:O	5:FN:46:TYR:CE2	2.64	0.51
3:AI:7:GLY:N	5:DM:24:THR:CA	2.47	0.51
3:AI:8:LEU:HA	5:FO:27:ARG:HD3	1.91	0.51
3:AI:48:ARG:H	3:AI:55:PHE:HE2	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AI:113:TYR:HD1	2:MJ:7:MET:HE3	1.76	0.51
4:BI:33:TYR:HE1	5:EM:57:GLU:HG2	1.76	0.51
5:EI:37:ASP:CB	3:AN:197:VAL:CB	2.88	0.51
1:CJ:350:ILE:HG13	1:CJ:384:ILE:HG22	1.92	0.51
1:DJ:265:ASP:HB2	2:GJ:41:TYR:HA	1.92	0.51
1:KJ:61:THR:HG21	1:LP:57:LYS:NZ	2.24	0.51
2:MJ:15:TYR:CD1	1:JS:148:ALA:CB	2.94	0.51
1:DK:348:ASN:H	2:GK:50:LYS:HE2	1.75	0.51
2:EK:50:LYS:NZ	2:EK:51:GLN:O	2.43	0.51
2:FK:30:MET:HA	2:FK:34:THR:HB	1.93	0.51
1:CL:314:GLY:HA3	1:YR:31:LYS:NZ	2.26	0.51
1:IL:319:TYR:HE1	1:ZR:95:VAL:HG21	1.76	0.51
1:JL:91:ILE:HD12	1:YR:63:LEU:HD11	1.91	0.51
1:RL:95:VAL:HG21	1:QR:319:TYR:HE1	1.76	0.51
1:aL:28:ASP:N	1:aL:28:ASP:OD1	2.42	0.51
4:BM:139:ASP:HB3	4:BO:200:SER:CB	2.40	0.51
3:AO:32:PHE:CE1	1:IS:139:ARG:NH2	2.73	0.51
1:AP:103:LYS:HE3	1:LP:304:GLN:HB3	1.92	0.51
1:KP:55:PHE:O	1:KP:57:LYS:NZ	2.41	0.51
1:JQ:57:LYS:HB3	1:bR:143:GLN:HB3	1.92	0.51
1:JQ:85:TYR:HD1	1:JQ:122:GLY:HA2	1.75	0.51
1:RQ:85:TYR:HD1	1:RQ:122:GLY:HA2	1.76	0.51
1:TQ:240:ILE:HG12	1:TQ:344:ILE:HG12	1.92	0.51
2:XQ:2:TYR:HB3	1:QR:150:ASN:CG	2.32	0.51
2:aQ:2:TYR:N	1:AS:150:ASN:HD21	2.08	0.51
1:dQ:365:HIS:HA	1:dQ:372:VAL:HG23	1.91	0.51
2:fQ:45:ILE:HG13	2:fQ:46:HIS:H	1.66	0.51
1:RR:139:ARG:NH2	2:WR:17:ASP:OD2	2.44	0.51
1:gR:258:THR:HB	1:iR:256:ALA:HB1	1.92	0.51
1:iR:28:ASP:N	1:iR:28:ASP:OD1	2.42	0.51
1:IS:210:ASN:ND2	1:KS:244:ASP:OD2	2.43	0.51
2:H1:17:ASP:HB2	1:C6:357:LYS:HD3	1.91	0.51
2:P1:17:ASP:HB2	1:IG:357:LYS:HD3	1.91	0.51
2:W1:18:SER:HB2	1:Q6:358:GLY:HA2	1.92	0.51
1:Y1:85:TYR:HD1	1:Y1:122:GLY:HA2	1.76	0.51
2:b1:50:LYS:HD3	1:YR:75:LEU:HD22	1.92	0.51
2:c1:1:MET:H3	1:aR:150:ASN:ND2	2.09	0.51
2:e1:4:GLY:HA3	1:CL:153:LEU:HD21	1.92	0.51
2:e1:31:SER:O	2:kG:45:ILE:HG12	2.10	0.51
1:f1:44:THR:HA	1:B3:14:VAL:O	2.11	0.51
1:f1:319:TYR:HE1	1:AQ:95:VAL:HG21	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g1:57:LYS:HB3	1:D4:143:GLN:HB3	1.92	0.51
1:h1:150:ASN:HD21	2:F4:1:MET:H2	1.59	0.51
2:j1:45:ILE:HG12	2:iQ:31:SER:O	2.10	0.51
3:A2:208:LYS:CE	4:BA:251:TRP:CG	2.94	0.51
5:D2:45:TYR:HE2	5:EB:38:TYR:HB2	1.76	0.51
1:C3:31:LYS:NZ	1:QG:314:GLY:HA3	2.26	0.51
1:C3:258:THR:HB	1:B3:256:ALA:HB1	1.92	0.51
1:A3:95:VAL:HG21	1:g7:319:TYR:HE1	1.76	0.51
1:I3:360:LEU:HD23	2:X8:22:LYS:HG2	1.89	0.51
1:Q3:321:VAL:CG2	1:Q3:327:PHE:CD2	2.92	0.51
1:C4:319:TYR:HE1	1:RG:95:VAL:HG21	1.76	0.51
1:A4:139:ARG:NH2	2:G4:17:ASP:OD2	2.44	0.51
2:M4:45:ILE:CG1	2:M4:46:HIS:H	2.23	0.51
1:Q4:22:LEU:CB	1:KL:47:GLU:HG2	2.40	0.51
1:Q4:314:GLY:HA3	1:IQ:31:LYS:NZ	2.26	0.51
1:R4:95:VAL:HG21	1:g8:319:TYR:HE1	1.76	0.51
1:S4:47:GLU:HG2	1:IQ:22:LEU:CB	2.40	0.51
1:Z4:98:ASN:ND2	1:Z4:99:MET:N	2.58	0.51
2:j4:5:ASN:O	1:CD:153:LEU:HD12	2.10	0.51
3:A5:197:VAL:CB	5:EO:37:ASP:CB	2.88	0.51
5:E5:64:TRP:CD1	4:BH:30:LEU:HB2	2.41	0.51
1:A6:85:TYR:HD1	1:A6:122:GLY:HA2	1.76	0.51
1:I6:258:THR:HB	1:K6:256:ALA:HB1	1.92	0.51
2:P6:31:SER:O	2:c7:45:ILE:HG12	2.11	0.51
1:Q6:20:SER:CA	1:CJ:47:GLU:CG	2.79	0.51
1:Q6:35:PHE:CZ	1:LJ:178:TYR:HA	2.45	0.51
1:R6:139:ARG:NH2	2:W6:17:ASP:OD2	2.44	0.51
1:T6:143:GLN:HB3	1:JG:57:LYS:HB3	1.92	0.51
1:Z6:85:TYR:O	1:KE:58:ILE:HA	2.10	0.51
1:g6:29:TYR:CE1	1:LP:302:ASP:OD2	2.64	0.51
1:g6:58:ILE:HA	1:BE:85:TYR:O	2.10	0.51
1:i6:143:GLN:O	1:BJ:82:ILE:HD13	2.11	0.51
1:j6:60:GLU:OE2	1:D8:351:LYS:NZ	2.43	0.51
2:n6:4:GLY:HA3	1:g7:153:LEU:HD21	1.92	0.51
1:C7:31:LYS:CE	1:LK:314:GLY:HA3	2.40	0.51
1:D7:143:GLN:HB3	1:AQ:57:LYS:HB3	1.92	0.51
2:E7:50:LYS:HD3	1:CQ:75:LEU:HD22	1.92	0.51
1:I7:31:LYS:NZ	1:gR:314:GLY:HA3	2.26	0.51
1:I7:49:PHE:CB	1:iR:137:ASP:OD2	2.59	0.51
1:J7:85:TYR:O	1:bQ:58:ILE:HA	2.10	0.51
2:P7:17:ASP:HB2	1:bQ:357:LYS:HD3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J8:139:ARG:NH2	2:O8:17:ASP:OD2	2.44	0.51
1:K8:129:GLN:NE2	1:K8:159:LYS:O	2.41	0.51
1:Z8:78:GLU:OE1	2:d8:23:ARG:NH2	2.44	0.51
1:g8:27:HIS:O	1:IS:100:ASP:OD1	2.29	0.51
1:g8:35:PHE:CZ	1:KS:178:TYR:HA	2.45	0.51
1:g8:367:PRO:HB2	1:KS:375:TRP:CG	2.45	0.51
1:j8:143:GLN:HB3	1:JL:57:LYS:HB3	1.92	0.51
3:AB:287:PRO:HA	3:AB:290:PHE:HD2	1.76	0.51
5:NB:230:SER:HA	5:CF:266:THR:CG2	2.40	0.51
5:NB:233:GLU:H	5:CF:265:LEU:HD23	1.72	0.51
4:BC:200:SER:CB	4:BH:139:ASP:HB3	2.40	0.51
5:EC:26:GLU:HG2	5:EC:27:ARG:HD2	1.92	0.51
1:AD:170:GLU:CG	1:KK:32:SER:OG	2.59	0.51
1:KD:53:TYR:CD2	1:IS:223:GLY:CA	2.91	0.51
2:EE:45:ILE:HG12	2:mR:31:SER:O	2.11	0.51
1:FE:370:ASP:CG	1:CP:361:LYS:NZ	2.68	0.51
2:JE:54:THR:HG21	2:NP:1:MET:HE1	1.90	0.51
1:KE:321:VAL:CG2	1:KE:327:PHE:CD2	2.92	0.51
2:RE:4:GLY:HA3	1:SE:153:LEU:HD21	1.92	0.51
1:SE:319:TYR:HE1	1:JQ:95:VAL:HG21	1.76	0.51
1:CG:153:LEU:HD21	2:HR:4:GLY:HA3	1.92	0.51
1:BG:150:ASN:HD21	2:VG:1:MET:H2	1.58	0.51
1:DG:98:ASN:HD22	1:DG:99:MET:N	2.07	0.51
1:JG:85:TYR:HD1	1:JG:122:GLY:HA2	1.75	0.51
1:KG:365:HIS:HA	1:KG:372:VAL:HG23	1.91	0.51
1:gG:58:ILE:HA	1:AL:85:TYR:O	2.10	0.51
1:gG:74:TRP:CZ3	2:HL:32:ILE:CD1	2.89	0.51
1:gG:357:LYS:HD3	2:HL:17:ASP:HB2	1.91	0.51
1:jG:240:ILE:HG12	1:jG:344:ILE:HG12	1.92	0.51
2:nG:31:SER:O	2:ML:45:ILE:HG12	2.10	0.51
3:AH:150:TYR:CD1	1:AP:145:LEU:CD1	2.93	0.51
5:EI:11:PHE:HB2	5:DO:67:ASP:CB	2.38	0.51
1:AJ:210:ASN:ND2	1:LJ:244:ASP:OD2	2.43	0.51
1:BJ:150:ASN:HD21	2:iL:2:TYR:N	2.08	0.51
1:KJ:80:ASP:CG	3:AN:64:GLN:CB	2.83	0.51
1:LJ:197:LEU:HA	1:LJ:200:LYS:HB2	1.93	0.51
1:DK:354:ARG:NH1	2:FK:24:THR:OG1	2.43	0.51
1:LK:29:TYR:OH	1:DP:302:ASP:HB3	1.99	0.51
1:LK:197:LEU:HA	1:LK:200:LYS:HB2	1.93	0.51
2:EL:45:ILE:CG1	2:EL:46:HIS:H	2.23	0.51
1:IL:44:THR:HA	1:KQ:14:VAL:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IL:321:VAL:CG2	1:IL:327:PHE:CD2	2.92	0.51
1:YL:258:THR:HB	1:aL:256:ALA:HB1	1.92	0.51
5:EM:26:GLU:HG2	5:EM:27:ARG:HD2	1.92	0.51
5:FM:46:TYR:HE2	5:EO:41:ASN:O	1.93	0.51
5:DO:90:ASP:HA	5:DO:93:ARG:HB2	1.92	0.51
1:AP:60:GLU:CG	1:KP:87:GLU:N	2.63	0.51
1:CQ:71:ARG:NH1	1:CQ:272:SER:O	2.43	0.51
1:QQ:258:THR:HB	1:SQ:256:ALA:HB1	1.92	0.51
1:RQ:367:PRO:O	1:TQ:377:HIS:NE2	2.38	0.51
1:bQ:71:ARG:NH1	1:bQ:272:SER:O	2.43	0.51
1:BR:98:ASN:ND2	1:BR:99:MET:N	2.58	0.51
1:DR:240:ILE:HG12	1:DR:344:ILE:HG12	1.92	0.51
1:JR:78:GLU:OE1	2:NR:23:ARG:NH2	2.44	0.51
1:aR:98:ASN:ND2	1:aR:99:MET:N	2.58	0.51
1:C1:81:PHE:HE2	1:Y8:139:ARG:HD2	1.63	0.51
1:C1:139:ARG:HD3	1:bQ:81:PHE:O	2.11	0.51
1:C1:167:GLU:OE2	1:C1:352:TYR:OH	2.26	0.51
1:C1:357:LYS:HD3	2:H6:17:ASP:HB2	1.91	0.51
1:A1:109:LEU:O	1:AL:105:GLU:CB	2.58	0.51
2:H1:31:SER:O	2:cG:45:ILE:HG12	2.11	0.51
1:J1:78:GLU:OE1	2:N1:23:ARG:NH2	2.44	0.51
2:P1:22:LYS:HG2	1:IG:360:LEU:HD23	1.88	0.51
1:Q1:22:LEU:CB	1:KG:47:GLU:HG2	2.40	0.51
1:R1:89:TYR:CE1	1:Q6:61:THR:CG2	2.94	0.51
1:S1:106:GLU:HA	1:LJ:109:LEU:CD1	2.40	0.51
1:T1:60:GLU:OE2	1:gL:351:LYS:NZ	2.43	0.51
1:X1:31:LYS:NZ	1:I8:314:GLY:HA3	2.26	0.51
1:a1:60:GLU:OE2	1:bR:351:LYS:NZ	2.43	0.51
1:f1:81:PHE:O	1:QG:139:ARG:HD3	2.11	0.51
1:f1:321:VAL:CG2	1:f1:327:PHE:CD2	2.92	0.51
1:g1:89:TYR:CE1	1:CQ:61:THR:CG2	2.94	0.51
1:h1:365:HIS:HA	1:h1:372:VAL:HG23	1.91	0.51
3:A2:197:VAL:CB	5:EA:37:ASP:CB	2.88	0.51
3:A2:201:TYR:HE2	5:DC:31:PHE:HZ	1.59	0.51
1:C3:22:LEU:CB	1:SG:47:GLU:HG2	2.40	0.51
1:C3:44:THR:HA	1:SG:14:VAL:O	2.11	0.51
1:B3:28:ASP:N	1:B3:28:ASP:OD1	2.43	0.51
1:D3:143:GLN:HB3	1:BE:57:LYS:HB3	1.92	0.51
1:Q3:139:ARG:HD3	1:X4:81:PHE:O	2.11	0.51
1:Y3:351:LYS:NZ	1:jR:60:GLU:OE2	2.43	0.51
1:C4:58:ILE:HA	1:RG:85:TYR:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I4:357:LYS:HD3	2:H8:17:ASP:HB2	1.91	0.51
1:K4:47:GLU:HG2	1:QL:22:LEU:CB	2.40	0.51
2:P4:2:TYR:HB3	1:AE:150:ASN:CG	2.32	0.51
1:X4:153:LEU:HD21	2:hE:4:GLY:HA3	1.92	0.51
2:e4:18:SER:HB2	1:Y8:358:GLY:HA2	1.92	0.51
1:f4:58:ILE:HA	1:ZG:85:TYR:O	2.10	0.51
1:f4:242:THR:HG21	1:f4:246:LEU:HD12	1.92	0.51
1:g4:139:ARG:NH2	2:k4:17:ASP:OD2	2.44	0.51
1:g4:178:TYR:HB2	1:CD:35:PHE:HZ	1.75	0.51
1:i4:19:LYS:HB3	1:BD:45:MET:CG	2.40	0.51
3:A5:48:ARG:H	3:A5:55:PHE:HE2	1.58	0.51
4:B5:33:TYR:HE1	5:EO:57:GLU:HG2	1.76	0.51
4:B5:93:ALA:HB2	5:FI:42:SER:O	2.11	0.51
5:E5:26:GLU:HG2	5:E5:27:ARG:HD2	1.92	0.51
5:E5:41:ASN:O	5:FI:46:TYR:CE2	2.64	0.51
5:F5:46:TYR:HE2	5:EN:41:ASN:O	1.93	0.51
1:C6:139:ARG:HD3	1:gG:81:PHE:O	2.11	0.51
1:I6:75:LEU:HD22	2:kG:50:LYS:HD3	1.92	0.51
1:I6:139:ARG:HD3	1:YR:81:PHE:O	2.11	0.51
1:I6:314:GLY:HA3	1:CL:31:LYS:NZ	2.26	0.51
1:K6:98:ASN:ND2	1:K6:99:MET:N	2.58	0.51
1:K6:137:ASP:OD2	1:CL:49:PHE:CB	2.59	0.51
1:T6:106:GLU:HB3	1:BS:109:LEU:HD11	1.93	0.51
1:Y6:58:ILE:HA	1:LE:85:TYR:O	2.10	0.51
1:Z6:95:VAL:HG21	1:KE:319:TYR:HE1	1.76	0.51
1:g6:25:PHE:C	1:AP:100:ASP:HA	2.32	0.51
1:i6:44:THR:O	1:DJ:16:LYS:HG2	2.10	0.51
1:j6:106:GLU:HB3	1:CJ:109:LEU:HD11	1.93	0.51
1:D7:105:GLU:O	1:CP:109:LEU:CD1	2.41	0.51
2:H7:4:GLY:HA3	1:I7:153:LEU:HD21	1.92	0.51
1:L7:143:GLN:HB3	1:Z8:57:LYS:HB3	1.92	0.51
2:P7:22:LYS:HG2	1:bQ:360:LEU:HD23	1.88	0.51
1:Q7:44:THR:HA	1:aL:14:VAL:O	2.11	0.51
2:X7:31:SER:O	2:MR:45:ILE:HG12	2.11	0.51
1:Y7:314:GLY:HA3	1:KE:31:LYS:NZ	2.26	0.51
1:I8:22:LEU:CB	1:KR:47:GLU:HG2	2.40	0.51
1:Q8:321:VAL:CG2	1:Q8:327:PHE:CD2	2.92	0.51
1:Z8:139:ARG:NH2	2:e8:17:ASP:OD2	2.44	0.51
1:a8:47:GLU:HG2	1:bQ:22:LEU:CB	2.40	0.51
1:b8:143:GLN:HB3	1:AR:57:LYS:HB3	1.92	0.51
1:h8:139:ARG:NH2	2:m8:17:ASP:OD2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i8:30:SER:O	1:BD:315:ALA:HA	2.11	0.51
1:j8:106:GLU:HB3	1:CD:109:LEU:HD11	1.93	0.51
3:A9:197:VAL:HG23	5:EC:37:ASP:OD2	2.11	0.51
4:BA:93:ALA:HB2	5:FC:42:SER:O	2.11	0.51
3:AB:134:ASN:HD22	3:AF:48:ARG:NH2	2.08	0.51
4:BC:32:PHE:CE1	5:FN:51:ARG:CD	2.90	0.51
1:KD:148:ALA:CB	2:LS:15:TYR:CD1	2.94	0.51
1:FE:50:VAL:HG23	1:BP:137:ASP:OD2	2.10	0.51
1:KE:153:LEU:HD21	2:PR:4:GLY:HA3	1.92	0.51
1:aE:361:LYS:HZ2	1:CG:370:ASP:CG	2.18	0.51
1:bE:85:TYR:O	1:CR:58:ILE:HA	2.10	0.51
1:bE:139:ARG:NH2	2:gE:17:ASP:OD2	2.44	0.51
2:eE:44:GLN:OE1	2:eE:44:GLN:HA	2.02	0.51
1:CG:360:LEU:HD22	2:fL:22:LYS:HG2	1.91	0.51
1:bG:105:GLU:O	1:CK:109:LEU:CD1	2.41	0.51
3:AH:48:ARG:NH2	3:AN:134:ASN:HD22	2.08	0.51
4:BI:30:LEU:HB2	5:EM:64:TRP:CD1	2.41	0.51
1:AJ:60:GLU:HG2	1:KJ:86:SER:CB	2.41	0.51
1:AJ:170:GLU:CG	1:JS:32:SER:OG	2.59	0.51
1:AJ:297:LEU:CD1	1:JS:29:TYR:HH	1.96	0.51
2:HJ:33:ASP:O	2:HJ:36:LYS:NZ	2.39	0.51
1:KJ:30:SER:CA	1:AP:315:ALA:HA	2.37	0.51
2:MJ:15:TYR:O	1:JS:145:LEU:CG	2.59	0.51
1:DK:237:ASP:N	1:DK:237:ASP:OD1	2.41	0.51
1:KK:98:ASN:HD21	1:KP:30:SER:CB	2.02	0.51
1:LK:54:LEU:HD13	1:DP:116:MET:HE1	1.89	0.51
2:NK:41:TYR:O	8:PK:117:ALA:N	2.43	0.51
1:KL:365:HIS:HA	1:KL:372:VAL:HG23	1.91	0.51
1:QL:98:ASN:HD22	1:QL:99:MET:H	1.56	0.51
1:bL:240:ILE:HG12	1:bL:344:ILE:HG12	1.92	0.51
5:DN:116:LEU:HD22	5:EN:116:LEU:HD13	1.92	0.51
2:NP:41:TYR:O	8:PP:117:ALA:N	2.43	0.51
1:CQ:81:PHE:O	1:gR:139:ARG:HD3	2.11	0.51
1:BQ:98:ASN:ND2	1:BQ:99:MET:N	2.58	0.51
1:SQ:365:HIS:HA	1:SQ:372:VAL:HG23	1.91	0.51
1:YQ:109:LEU:O	1:KS:105:GLU:CB	2.59	0.51
1:eQ:240:ILE:HG12	1:eQ:344:ILE:HG12	1.92	0.51
1:YR:71:ARG:NH1	1:YR:272:SER:O	2.43	0.51
1:ZR:85:TYR:HD1	1:ZR:122:GLY:HA2	1.76	0.51
1:C1:58:ILE:HA	1:A6:85:TYR:O	2.10	0.51
1:A1:85:TYR:HD1	1:A1:122:GLY:HA2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:137:ASP:OD2	1:Y8:49:PHE:CB	2.59	0.51
1:L1:351:LYS:NZ	1:NE:60:GLU:OE2	2.43	0.51
1:Q1:98:ASN:HD22	1:Q1:99:MET:H	1.56	0.51
1:Q1:242:THR:HG21	1:Q1:246:LEU:HD12	1.92	0.51
1:R1:241:LEU:HD12	1:R1:271:ILE:HD11	1.93	0.51
1:T1:30:SER:O	1:CJ:315:ALA:CA	2.44	0.51
1:X1:139:ARG:HD3	1:I8:81:PHE:O	2.11	0.51
1:Y1:85:TYR:O	1:I6:58:ILE:HA	2.10	0.51
1:a1:143:GLN:HB3	1:ZR:57:LYS:HB3	1.92	0.51
1:g1:85:TYR:O	1:CQ:58:ILE:HA	2.10	0.51
5:E2:41:ASN:O	5:F9:46:TYR:HE2	1.93	0.51
1:A3:139:ARG:NH2	2:G3:17:ASP:OD2	2.44	0.51
1:A4:109:LEU:O	1:AQ:105:GLU:CB	2.58	0.51
1:J4:57:LYS:HB3	1:TR:143:GLN:HB3	1.92	0.51
1:Q4:139:ARG:HD3	1:IL:81:PHE:O	2.11	0.51
1:S4:98:ASN:ND2	1:S4:99:MET:N	2.58	0.51
1:X4:357:LYS:HD3	2:f8:17:ASP:HB2	1.91	0.51
1:Y4:85:TYR:O	1:Y8:58:ILE:HA	2.10	0.51
1:f4:49:PHE:CB	1:B6:137:ASP:OD2	2.59	0.51
1:f4:358:GLY:HA2	2:fG:18:SER:HB2	1.92	0.51
1:g4:57:LYS:HB3	1:DL:143:GLN:HB3	1.92	0.51
4:B5:250:ILE:CD1	3:AH:209:MET:CG	2.84	0.51
5:E5:140:ASP:N	5:C5:139:LYS:HB3	2.25	0.51
1:A6:109:LEU:O	1:J7:105:GLU:CB	2.58	0.51
1:g6:321:VAL:CG2	1:g6:327:PHE:CD2	2.92	0.51
1:h6:85:TYR:O	1:AE:58:ILE:HA	2.10	0.51
1:h6:85:TYR:HD1	1:h6:122:GLY:HA2	1.75	0.51
1:i6:98:ASN:ND2	1:i6:99:MET:N	2.58	0.51
1:C7:31:LYS:O	1:LK:125:ILE:HD12	2.10	0.51
1:A7:85:TYR:O	1:gR:58:ILE:HA	2.10	0.51
1:Q7:314:GLY:HA3	1:QR:31:LYS:NZ	2.26	0.51
1:R7:78:GLU:OE1	2:V7:23:ARG:NH2	2.44	0.51
1:Y7:31:LYS:NZ	1:QQ:314:GLY:HA3	2.26	0.51
1:Y7:44:THR:HA	1:SQ:14:VAL:O	2.11	0.51
1:Z7:367:PRO:O	1:b7:377:HIS:NE2	2.38	0.51
1:a7:47:GLU:HG2	1:KE:22:LEU:CB	2.40	0.51
1:a7:98:ASN:ND2	1:a7:99:MET:N	2.58	0.51
1:a7:129:GLN:NE2	1:a7:159:LYS:O	2.41	0.51
1:A8:78:GLU:OE1	2:F8:23:ARG:NH2	2.44	0.51
1:B8:14:VAL:O	1:AE:44:THR:HA	2.11	0.51
1:I8:208:LEU:HD12	1:I8:391:ILE:HD11	1.89	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I8:258:THR:HB	1:K8:256:ALA:HB1	1.92	0.51
2:U8:45:ILE:HG12	2:XR:31:SER:O	2.11	0.51
3:A9:36:LEU:CD1	1:AK:135:ASN:HD21	2.20	0.51
4:BA:33:TYR:CZ	5:EH:57:GLU:HA	2.37	0.51
1:AD:115:ARG:NH1	1:LD:298:ARG:O	2.45	0.51
1:AD:170:GLU:CG	1:KK:32:SER:CB	2.88	0.51
1:BD:98:ASN:CG	1:KS:27:HIS:O	2.53	0.51
1:DD:109:LEU:HG	1:JS:105:GLU:CD	2.35	0.51
1:DD:240:ILE:HD11	1:DD:270:VAL:HG13	1.92	0.51
1:LD:28:ASP:HB3	1:DK:304:GLN:HG3	1.92	0.51
1:LD:240:ILE:HD11	1:LD:270:VAL:HG13	1.93	0.51
1:LD:314:GLY:HA3	1:YG:31:LYS:CE	2.40	0.51
1:BG:129:GLN:NE2	1:BG:159:LYS:O	2.41	0.51
1:bG:101:LEU:O	1:CK:111:ARG:NH2	2.44	0.51
1:gG:71:ARG:NH1	1:gG:272:SER:O	2.43	0.51
1:gG:360:LEU:HD23	2:HL:22:LYS:HG2	1.88	0.51
3:AH:48:ARG:H	3:AH:55:PHE:HE2	1.58	0.51
3:AH:114:PHE:HA	2:MP:19:ARG:N	2.26	0.51
3:AH:193:ILE:HD11	3:AN:12:LEU:HD21	1.91	0.51
5:DH:90:ASP:HA	5:DH:93:ARG:HB2	1.92	0.51
1:AJ:170:GLU:CG	1:JS:32:SER:CB	2.88	0.51
1:DJ:312:PRO:HD3	1:LP:27:HIS:CD2	2.46	0.51
2:FJ:30:MET:HA	2:FJ:34:THR:HB	1.93	0.51
1:KJ:27:HIS:CE1	1:AP:310:THR:C	2.88	0.51
1:LJ:27:HIS:CD2	1:CS:312:PRO:HD3	2.46	0.51
1:LJ:240:ILE:HD11	1:LJ:270:VAL:HG13	1.93	0.51
1:AK:170:GLU:CG	1:KP:32:SER:CB	2.88	0.51
1:BK:134:ASN:HA	1:BK:371:GLU:HG3	1.92	0.51
1:CK:37:ASP:N	1:hR:119:LYS:HD2	2.26	0.51
1:LK:57:LYS:NZ	1:KP:61:THR:HG21	2.24	0.51
1:IL:62:LEU:HD11	2:fR:52:SER:O	2.09	0.51
1:JL:85:TYR:O	1:YR:58:ILE:HA	2.10	0.51
1:JL:89:TYR:CE1	1:YR:61:THR:CG2	2.94	0.51
1:KL:98:ASN:ND2	1:KL:99:MET:N	2.58	0.51
2:UL:45:ILE:HG12	2:XQ:31:SER:O	2.10	0.51
1:ZL:109:LEU:O	1:AR:105:GLU:CB	2.58	0.51
3:AM:106:ARG:CB	2:LS:22:LYS:HB3	2.41	0.51
1:DP:237:ASP:OD1	1:DP:237:ASP:N	2.41	0.51
1:LP:240:ILE:HD11	1:LP:270:VAL:HG13	1.93	0.51
1:KQ:28:ASP:OD1	1:KQ:28:ASP:N	2.43	0.51
1:QQ:242:THR:HG21	1:QQ:246:LEU:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RQ:241:LEU:HD12	1:RQ:271:ILE:HD11	1.93	0.51
1:YQ:82:ILE:CD1	1:AS:145:LEU:CD2	2.86	0.51
2:fQ:50:LYS:HD3	1:gR:75:LEU:HD22	1.92	0.51
1:iR:98:ASN:ND2	1:iR:99:MET:N	2.58	0.51
1:BS:128:LYS:HA	1:BS:376:ILE:O	2.11	0.51
2:H1:15:TYR:CD2	1:f4:152:ALA:HB2	2.47	0.50
1:I1:75:LEU:HD22	2:OE:50:LYS:HD3	1.92	0.50
1:K1:14:VAL:O	1:Y6:44:THR:HA	2.11	0.50
1:Q1:139:ARG:HD3	1:IG:81:PHE:O	2.11	0.50
1:R1:108:MET:SD	1:CS:366:ASN:HA	2.51	0.50
1:R1:119:LYS:HD2	1:CJ:37:ASP:N	2.26	0.50
1:R1:119:LYS:CG	1:CJ:36:GLY:HA3	2.41	0.50
2:W1:15:TYR:CZ	1:CS:133:LEU:HD12	2.45	0.50
1:X1:242:THR:HG21	1:X1:246:LEU:HD12	1.92	0.50
1:X1:314:GLY:HA3	1:IR:31:LYS:NZ	2.26	0.50
1:Y1:78:GLU:OE1	2:c1:23:ARG:NH2	2.44	0.50
1:a1:68:LEU:HB2	1:a1:161:SER:HB3	1.94	0.50
2:e1:17:ASP:HB2	1:I6:357:LYS:HD3	1.91	0.50
1:g1:85:TYR:HD1	1:g1:122:GLY:HA2	1.76	0.50
1:g1:367:PRO:O	1:i1:377:HIS:NE2	2.38	0.50
1:C3:61:THR:CG2	1:h7:89:TYR:CE1	2.94	0.50
1:I3:242:THR:HG21	1:I3:246:LEU:HD12	1.92	0.50
1:J3:95:VAL:HG21	1:Q8:319:TYR:HE1	1.76	0.50
1:J3:241:LEU:HD12	1:J3:271:ILE:HD11	1.93	0.50
2:M3:45:ILE:HG12	2:X6:31:SER:O	2.11	0.50
2:U3:50:LYS:HD3	1:IR:75:LEU:HD22	1.92	0.50
1:C4:321:VAL:CG2	1:C4:327:PHE:CD2	2.92	0.50
1:I4:81:PHE:O	1:QL:139:ARG:HD3	2.11	0.50
1:J4:78:GLU:OE1	2:N4:23:ARG:NH2	2.44	0.50
1:J4:95:VAL:HG21	1:C8:319:TYR:HE1	1.76	0.50
1:Q4:44:THR:HA	1:KL:14:VAL:O	2.11	0.50
1:Q4:152:ALA:HB2	2:fR:15:TYR:CD2	2.47	0.50
1:R4:85:TYR:O	1:g8:58:ILE:HA	2.10	0.50
1:R4:375:TRP:CZ3	1:BS:367:PRO:CG	2.94	0.50
1:S4:14:VAL:O	1:IQ:44:THR:HA	2.11	0.50
1:Y4:241:LEU:HD12	1:Y4:271:ILE:HD11	1.93	0.50
1:g4:108:MET:SD	1:DK:366:ASN:HA	2.51	0.50
1:g4:119:LYS:HD2	1:CD:36:GLY:HA3	1.92	0.50
1:g4:119:LYS:CG	1:CD:36:GLY:HA3	2.41	0.50
1:g4:375:TRP:CZ3	1:CD:367:PRO:CG	2.94	0.50
1:h4:47:GLU:HG2	1:gG:22:LEU:CB	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h4:98:ASN:HB3	1:CD:28:ASP:C	2.27	0.50
1:i4:49:PHE:N	1:BD:137:ASP:OD2	2.45	0.50
1:i4:145:LEU:HD21	2:HD:17:ASP:OD2	2.10	0.50
2:l4:17:ASP:HB2	1:YG:357:LYS:HD3	1.91	0.50
3:A5:114:PHE:CE1	2:MJ:21:ASN:O	2.64	0.50
3:A5:287:PRO:HA	3:A5:290:PHE:HD2	1.76	0.50
4:B5:251:TRP:CG	3:AH:208:LYS:CE	2.94	0.50
1:A6:139:ARG:NH2	2:G6:17:ASP:OD2	2.44	0.50
2:H6:15:TYR:CD2	1:Y8:152:ALA:HB2	2.47	0.50
1:L6:60:GLU:OE2	1:L8:351:LYS:NZ	2.43	0.50
1:Q6:258:THR:HB	1:S6:256:ALA:HB1	1.92	0.50
2:d6:8:ARG:NH1	1:a7:152:ALA:O	2.45	0.50
1:g6:319:TYR:HE1	1:BE:95:VAL:HG21	1.76	0.50
1:i6:30:SER:O	1:BJ:315:ALA:HA	2.11	0.50
1:C7:46:PHE:HZ	1:CK:39:TRP:CH2	2.30	0.50
1:D7:68:LEU:HB2	1:D7:161:SER:HB3	1.94	0.50
1:D7:101:LEU:O	1:CP:111:ARG:NH2	2.44	0.50
2:H7:17:ASP:HB2	1:gR:357:LYS:HD3	1.91	0.50
2:M7:45:ILE:CG1	2:M7:46:HIS:H	2.23	0.50
1:Q7:31:LYS:NZ	1:YL:314:GLY:HA3	2.26	0.50
1:Q7:62:LEU:HD13	2:XQ:52:SER:O	2.12	0.50
1:Q7:242:THR:HG21	1:Q7:246:LEU:HD12	1.92	0.50
1:Y7:81:PHE:O	1:KE:139:ARG:HD3	2.11	0.50
1:Y7:360:LEU:HD23	2:PR:22:LYS:HG2	1.89	0.50
1:A8:85:TYR:HD1	1:A8:122:GLY:HA2	1.76	0.50
1:J8:85:TYR:HD1	1:J8:122:GLY:HA2	1.75	0.50
1:Q8:242:THR:HG21	1:Q8:246:LEU:HD12	1.92	0.50
1:R8:241:LEU:HD12	1:R8:271:ILE:HD11	1.93	0.50
1:S8:259:PHE:C	1:S8:260:GLN:HG2	2.37	0.50
1:Y8:242:THR:HG21	1:Y8:246:LEU:HD12	1.92	0.50
1:g8:13:LEU:C	1:BS:45:MET:SD	2.92	0.50
1:g8:208:LEU:HD12	1:g8:391:ILE:HD11	1.89	0.50
1:g8:316:VAL:HG21	1:DD:33:TRP:CZ3	2.46	0.50
1:h8:109:LEU:O	1:ZR:105:GLU:CB	2.58	0.50
5:D9:31:PHE:HZ	3:AF:201:TYR:HE2	1.59	0.50
5:E9:64:TRP:CD1	4:BB:30:LEU:CB	2.95	0.50
4:BA:30:LEU:CB	5:EH:64:TRP:CD1	2.95	0.50
4:BA:33:TYR:HE1	5:EH:57:GLU:HG2	1.76	0.50
5:FA:101:ILE:HA	5:FA:104:ILE:HG12	1.91	0.50
3:AC:287:PRO:HA	3:AC:290:PHE:HD2	1.76	0.50
5:DC:25:ARG:HH22	1:DP:103:LYS:CA	2.17	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:58:ILE:CD1	3:AF:154:ILE:HG23	2.17	0.50
1:DD:134:ASN:ND2	1:DD:137:ASP:OD1	2.43	0.50
1:DE:109:LEU:O	1:LP:105:GLU:CB	2.59	0.50
1:FE:19:LYS:HB3	1:BP:45:MET:CG	2.40	0.50
1:ME:98:ASN:ND2	1:ME:99:MET:N	2.58	0.50
1:TE:89:TYR:CE1	1:IQ:61:THR:CG2	2.94	0.50
1:aE:152:ALA:HB2	2:XG:15:TYR:CD2	2.47	0.50
1:aE:167:GLU:OE2	1:aE:352:TYR:OH	2.26	0.50
1:aE:319:TYR:HE1	1:AR:95:VAL:HG21	1.76	0.50
1:JG:78:GLU:OE1	2:NG:23:ARG:NH2	2.44	0.50
1:QG:152:ALA:HB2	2:HQ:15:TYR:CD2	2.47	0.50
1:SG:98:ASN:ND2	1:SG:99:MET:N	2.58	0.50
1:ZG:241:LEU:HD12	1:ZG:271:ILE:HD11	1.93	0.50
1:aG:30:SER:O	1:BK:315:ALA:HA	2.11	0.50
4:BH:93:ALA:HB2	5:FN:42:SER:O	2.11	0.50
4:BI:93:ALA:HB2	5:FO:42:SER:O	2.11	0.50
1:BJ:98:ASN:CG	1:LP:27:HIS:O	2.53	0.50
1:KJ:148:ALA:HB1	2:MP:15:TYR:CE1	2.44	0.50
1:LJ:153:LEU:HD21	2:ES:3:GLU:O	2.01	0.50
2:MJ:31:SER:HA	2:MJ:35:ASN:HB3	1.93	0.50
1:LK:48:THR:N	1:KP:22:LEU:HD21	2.26	0.50
1:QL:242:THR:HG21	1:QL:246:LEU:HD12	1.92	0.50
1:QL:259:PHE:HE1	1:RR:259:PHE:HE1	1.48	0.50
1:RL:89:TYR:CE1	1:QR:61:THR:CG2	2.94	0.50
1:RL:241:LEU:HD12	1:RL:271:ILE:HD11	1.93	0.50
1:aL:129:GLN:NE2	1:aL:159:LYS:O	2.41	0.50
4:BM:144:GLN:NE2	4:BO:195:LYS:H	2.09	0.50
5:EM:140:ASP:HB3	5:CM:139:LYS:HZ3	1.76	0.50
5:FM:46:TYR:CE2	5:EO:41:ASN:O	2.64	0.50
5:EN:140:ASP:HB3	5:CN:139:LYS:CB	2.21	0.50
1:KP:104:ASN:ND2	1:KP:106:GLU:OE2	2.45	0.50
1:AQ:85:TYR:HD1	1:AQ:122:GLY:HA2	1.76	0.50
1:JQ:139:ARG:NH2	2:OQ:17:ASP:OD2	2.44	0.50
1:JR:241:LEU:HD12	1:JR:271:ILE:HD11	1.93	0.50
1:JR:367:PRO:O	1:LR:377:HIS:NE2	2.38	0.50
1:QR:258:THR:HB	1:SR:256:ALA:HB1	1.92	0.50
2:ES:30:MET:HA	2:ES:34:THR:HB	1.93	0.50
1:JS:104:ASN:ND2	1:JS:106:GLU:OE2	2.45	0.50
1:A1:85:TYR:O	1:C6:58:ILE:HA	2.10	0.50
1:A1:139:ARG:NH2	2:G1:17:ASP:OD2	2.44	0.50
1:B1:28:ASP:N	1:B1:28:ASP:OD1	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:314:GLY:HA3	1:Y6:31:LYS:NZ	2.26	0.50
1:J1:259:PHE:HE1	1:IG:259:PHE:HE1	1.48	0.50
1:K1:137:ASP:OD2	1:Y6:49:PHE:CB	2.59	0.50
2:P1:31:SER:O	2:U6:45:ILE:HG12	2.10	0.50
1:S1:152:ALA:O	2:N3:8:ARG:NH1	2.45	0.50
1:S1:259:PHE:C	1:S1:260:GLN:HG2	2.37	0.50
1:X1:61:THR:CG2	1:J6:89:TYR:CE1	2.94	0.50
1:Z1:152:ALA:O	2:d7:8:ARG:NH1	2.45	0.50
1:g1:78:GLU:OE1	2:k1:23:ARG:NH2	2.44	0.50
1:h1:14:VAL:O	1:QG:44:THR:HA	2.11	0.50
1:h1:98:ASN:ND2	1:h1:99:MET:N	2.58	0.50
2:H3:31:SER:O	2:M4:45:ILE:HG12	2.11	0.50
1:I3:81:PHE:O	1:I4:139:ARG:HD3	2.11	0.50
1:I3:319:TYR:HE1	1:R8:95:VAL:HG21	1.76	0.50
1:J3:139:ARG:NH2	2:O3:17:ASP:OD2	2.44	0.50
1:K3:47:GLU:HG2	1:I4:22:LEU:CB	2.40	0.50
1:Q3:314:GLY:HA3	1:CR:31:LYS:NZ	2.26	0.50
1:R3:89:TYR:CE1	1:I8:61:THR:CG2	2.94	0.50
1:T3:68:LEU:HB2	1:T3:161:SER:HB3	1.94	0.50
1:T3:325:LYS:NZ	1:T3:325:LYS:CB	2.73	0.50
2:X3:18:SER:HB2	1:I8:358:GLY:HA2	1.92	0.50
2:X3:52:SER:O	1:I8:62:LEU:HD13	2.12	0.50
1:C4:139:ARG:HD3	1:CG:81:PHE:O	2.11	0.50
1:C4:258:THR:HB	1:B4:256:ALA:HB1	1.92	0.50
1:B4:152:ALA:O	2:FR:8:ARG:NH1	2.45	0.50
1:I4:259:PHE:HE1	1:A8:259:PHE:HE1	1.48	0.50
1:X4:152:ALA:HB2	2:hE:15:TYR:CD2	2.47	0.50
1:h4:150:ASN:ND2	2:FL:1:MET:H3	2.09	0.50
3:A5:156:ILE:CB	1:AJ:139:ARG:HH22	2.23	0.50
4:B5:144:GLN:NE2	4:BN:195:LYS:H	2.09	0.50
1:C6:321:VAL:CG2	1:C6:327:PHE:CD2	2.92	0.50
1:K6:152:ALA:O	2:lG:8:ARG:NH1	2.45	0.50
1:S6:129:GLN:NE2	1:S6:159:LYS:O	2.41	0.50
1:Y6:150:ASN:CG	2:PG:2:TYR:HB3	2.32	0.50
1:Z6:78:GLU:OE1	2:d6:23:ARG:NH2	2.44	0.50
1:b6:240:ILE:HG12	1:b6:344:ILE:HG12	1.92	0.50
2:f6:22:LYS:HG2	1:KE:360:LEU:HD22	1.91	0.50
1:j6:197:LEU:HD13	1:j6:340:LEU:HB3	1.94	0.50
1:C7:61:THR:CG2	1:hR:89:TYR:CE1	2.94	0.50
1:C7:242:THR:HG21	1:C7:246:LEU:HD12	1.92	0.50
1:C7:258:THR:HB	1:B7:256:ALA:HB1	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:78:GLU:OE1	2:F7:23:ARG:NH2	2.44	0.50
1:B7:46:PHE:HZ	1:DP:39:TRP:CZ3	2.30	0.50
1:I7:139:ARG:HD3	1:gR:81:PHE:O	2.11	0.50
2:P7:18:SER:HB2	1:bQ:358:GLY:HA2	1.92	0.50
2:V7:8:ARG:NH1	1:ME:152:ALA:O	2.45	0.50
2:X7:4:GLY:HA3	1:Y7:153:LEU:HD21	1.92	0.50
1:Z7:85:TYR:O	1:IR:58:ILE:HA	2.10	0.50
2:f7:4:GLY:HA3	1:I8:153:LEU:HD21	1.92	0.50
1:C8:314:GLY:HA3	1:AE:31:LYS:NZ	2.26	0.50
1:Q8:81:PHE:O	1:IG:139:ARG:HD3	2.11	0.50
1:Q8:208:LEU:CD1	1:Q8:391:ILE:HD12	1.95	0.50
1:R8:139:ARG:NH2	2:W8:17:ASP:OD2	2.44	0.50
2:U8:50:LYS:HD3	1:QL:75:LEU:HD22	1.91	0.50
2:V8:8:ARG:NH1	1:SL:152:ALA:O	2.45	0.50
1:g8:29:TYR:CD2	1:KS:317:PHE:CD1	2.93	0.50
1:g8:53:TYR:CD2	1:KS:223:GLY:HA3	2.46	0.50
3:AA:112:ILE:HD11	2:MK:16:GLU:HG3	1.90	0.50
4:BA:195:LYS:H	4:BC:144:GLN:NE2	2.09	0.50
5:DB:90:ASP:HA	5:DB:93:ARG:HB2	1.92	0.50
5:FB:46:TYR:CE2	5:EF:41:ASN:O	2.64	0.50
1:AD:310:THR:C	1:KK:27:HIS:CE1	2.88	0.50
1:DD:312:PRO:HD3	1:KS:27:HIS:CD2	2.46	0.50
2:MD:50:LYS:N	3:AF:114:PHE:HE1	2.10	0.50
1:BE:78:GLU:OE1	2:HE:23:ARG:NH2	2.44	0.50
1:BE:108:MET:SD	1:DJ:366:ASN:HA	2.51	0.50
1:FE:49:PHE:N	1:BP:137:ASP:OD2	2.45	0.50
2:JE:15:TYR:CZ	1:DJ:133:LEU:HD12	2.45	0.50
1:LE:85:TYR:HD1	1:LE:122:GLY:HA2	1.75	0.50
1:NE:197:LEU:HD13	1:NE:340:LEU:HB3	1.94	0.50
1:UE:98:ASN:ND2	1:UE:99:MET:N	2.58	0.50
1:cE:98:ASN:ND2	1:cE:99:MET:N	2.58	0.50
1:dE:68:LEU:HB2	1:dE:161:SER:HB3	1.94	0.50
5:EF:64:TRP:CD1	4:BO:30:LEU:CB	2.95	0.50
1:CG:58:ILE:HA	1:ZL:85:TYR:O	2.10	0.50
2:MG:45:ILE:HG12	2:PQ:31:SER:O	2.11	0.50
1:TG:179:SER:HG	1:TG:341:TYR:HH	1.56	0.50
1:YG:321:VAL:CG2	1:YG:327:PHE:CD2	2.92	0.50
1:bG:106:GLU:HB3	1:CK:109:LEU:HD11	1.93	0.50
1:gG:62:LEU:HD13	2:HL:52:SER:O	2.12	0.50
1:iG:259:PHE:C	1:iG:260:GLN:HG2	2.37	0.50
2:nG:4:GLY:HA3	1:YR:153:LEU:HD21	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:nG:15:TYR:CD2	1:YR:152:ALA:HB2	2.47	0.50
5:DH:105:ILE:O	5:DH:109:PHE:HB2	2.10	0.50
3:AI:32:PHE:HE2	1:IS:54:LEU:CB	2.19	0.50
3:AI:66:ILE:HD13	1:JS:359:MET:HE1	1.94	0.50
3:AI:287:PRO:HA	3:AI:290:PHE:HD2	1.76	0.50
5:CI:266:THR:CG2	5:NO:230:SER:HA	2.40	0.50
1:LJ:27:HIS:O	1:AS:98:ASN:CG	2.53	0.50
1:AK:120:LEU:CD1	1:KP:55:PHE:CG	2.93	0.50
7:SK:20:ALA:N	7:SK:32:ALA:O	2.45	0.50
1:JL:85:TYR:HD1	1:JL:122:GLY:HA2	1.76	0.50
1:SL:259:PHE:C	1:SL:260:GLN:HG2	2.37	0.50
1:YL:139:ARG:HD3	1:QR:81:PHE:O	2.11	0.50
1:gL:179:SER:HG	1:gL:341:TYR:HH	1.59	0.50
5:DO:128:MET:SD	5:DO:132:ASN:ND2	2.85	0.50
1:AP:355:TYR:HB3	1:AP:379:TYR:HB3	1.92	0.50
1:LP:349:SER:O	1:LP:385:SER:N	2.38	0.50
7:SP:20:ALA:N	7:SP:32:ALA:O	2.45	0.50
1:CQ:152:ALA:HB2	2:iQ:15:TYR:CD2	2.47	0.50
1:CQ:153:LEU:HD21	2:iQ:4:GLY:HA3	1.92	0.50
1:TQ:197:LEU:HD13	1:TQ:340:LEU:HB3	1.94	0.50
1:YQ:123:ASN:ND2	1:AS:21:ALA:HB2	2.27	0.50
1:dQ:259:PHE:C	1:dQ:260:GLN:HG2	2.37	0.50
2:gQ:8:ARG:NH1	1:iR:152:ALA:O	2.45	0.50
1:IS:115:ARG:NH1	1:KS:298:ARG:O	2.44	0.50
1:C1:321:VAL:CG2	1:C1:327:PHE:CD2	2.92	0.50
1:I1:139:ARG:HD2	1:SE:81:PHE:HE2	1.63	0.50
1:I1:319:TYR:HE1	1:JG:95:VAL:HG21	1.76	0.50
1:J1:85:TYR:HD1	1:J1:122:GLY:HA2	1.76	0.50
1:Q1:314:GLY:HA3	1:Q8:31:LYS:NZ	2.26	0.50
1:R1:82:ILE:HG12	1:CJ:144:THR:O	2.11	0.50
1:Z1:98:ASN:ND2	1:Z1:99:MET:N	2.58	0.50
3:A2:8:LEU:HA	5:F9:27:ARG:HD3	1.91	0.50
4:B2:144:GLN:NE2	4:BB:195:LYS:H	2.09	0.50
5:D2:31:PHE:HZ	3:AM:201:TYR:HE2	1.59	0.50
1:C3:62:LEU:HD11	2:n7:53:PHE:O	2.03	0.50
1:K3:150:ASN:HD21	2:F8:1:MET:H2	1.58	0.50
1:S3:137:ASP:OD2	1:CR:49:PHE:CB	2.59	0.50
1:b3:197:LEU:HD13	1:b3:340:LEU:HB3	1.94	0.50
1:L4:197:LEU:HD13	1:L4:340:LEU:HB3	1.94	0.50
1:R4:119:LYS:CG	1:BS:36:GLY:HA3	2.41	0.50
1:S4:137:ASP:OD2	1:IQ:49:PHE:CB	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:139:ARG:HD3	1:CR:81:PHE:O	2.11	0.50
1:X4:242:THR:HG21	1:X4:246:LEU:HD12	1.92	0.50
1:X4:321:VAL:CG2	1:X4:327:PHE:CD2	2.92	0.50
1:g4:82:ILE:HG12	1:CD:144:THR:O	2.11	0.50
1:i4:240:ILE:HG12	1:i4:344:ILE:HG12	1.92	0.50
4:B5:195:LYS:H	4:BI:144:GLN:NE2	2.09	0.50
5:E5:41:ASN:O	5:FI:46:TYR:HE2	1.93	0.50
2:F6:1:MET:H2	1:dQ:150:ASN:HD21	1.58	0.50
1:I6:81:PHE:O	1:CL:139:ARG:HD3	2.11	0.50
1:J6:57:LYS:HB3	1:jG:143:GLN:HB3	1.92	0.50
1:L6:197:LEU:HD13	1:L6:340:LEU:HB3	1.94	0.50
1:Q6:29:TYR:CE1	1:LJ:302:ASP:OD2	2.64	0.50
1:Q6:367:PRO:HB2	1:LJ:375:TRP:CG	2.45	0.50
1:T6:60:GLU:OE2	1:LG:351:LYS:NZ	2.43	0.50
1:T6:101:LEU:O	1:BS:111:ARG:NH2	2.44	0.50
1:T6:179:SER:HG	1:T6:341:TYR:HH	1.58	0.50
1:T6:325:LYS:NZ	1:T6:325:LYS:CB	2.73	0.50
1:Y6:314:GLY:HA3	1:SE:31:LYS:NZ	2.26	0.50
1:Y6:360:LEU:HD23	2:RE:22:LYS:HG2	1.89	0.50
2:k6:50:LYS:HD3	1:C8:75:LEU:HD22	1.92	0.50
2:N7:1:MET:H3	1:a8:150:ASN:ND2	2.09	0.50
2:P7:52:SER:O	1:bQ:62:LEU:HD13	2.12	0.50
1:Y7:258:THR:HB	1:a7:256:ALA:HB1	1.92	0.50
1:Z7:241:LEU:HD12	1:Z7:271:ILE:HD11	1.93	0.50
1:g7:258:THR:HB	1:i7:256:ALA:HB1	1.92	0.50
1:i7:28:ASP:N	1:i7:28:ASP:OD1	2.43	0.50
1:i7:98:ASN:ND2	1:i7:99:MET:N	2.58	0.50
1:C8:361:LYS:NZ	1:AE:370:ASP:OD1	2.43	0.50
1:B8:137:ASP:OD2	1:AE:49:PHE:CB	2.59	0.50
2:H8:2:TYR:HB3	1:QL:150:ASN:CG	2.32	0.50
2:H8:31:SER:O	2:UR:45:ILE:HG12	2.10	0.50
2:P8:31:SER:O	2:eE:45:ILE:HG12	2.11	0.50
1:g8:258:THR:HB	1:i8:256:ALA:HB1	1.92	0.50
1:g8:321:VAL:CG2	1:g8:327:PHE:CD2	2.92	0.50
3:AA:48:ARG:H	3:AA:55:PHE:HE2	1.58	0.50
1:AD:60:GLU:HG2	1:KD:86:SER:CB	2.41	0.50
1:CD:128:LYS:HA	1:CD:376:ILE:O	2.11	0.50
1:LD:302:ASP:OD2	1:YG:29:TYR:CE1	2.64	0.50
1:BE:119:LYS:HD2	1:CP:36:GLY:CA	2.42	0.50
1:BE:241:LEU:HD12	1:BE:271:ILE:HD11	1.93	0.50
1:SE:167:GLU:OE2	1:SE:352:TYR:OH	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SE:258:THR:HB	1:UE:256:ALA:HB1	1.92	0.50
1:aE:358:GLY:HA2	2:HR:18:SER:HB2	1.92	0.50
5:FF:42:SER:O	4:BM:93:ALA:HB2	2.11	0.50
1:BG:259:PHE:C	1:BG:260:GLN:HG2	2.37	0.50
2:HG:52:SER:O	1:YL:62:LEU:HD13	2.12	0.50
1:LG:197:LEU:HD13	1:LG:340:LEU:HB3	1.94	0.50
1:YG:242:THR:HG21	1:YG:246:LEU:HD12	1.92	0.50
2:kG:45:ILE:HG13	2:kG:46:HIS:H	1.66	0.50
3:AI:193:ILE:HD11	3:AO:12:LEU:HD21	1.91	0.50
1:KJ:22:LEU:HD21	1:LP:48:THR:N	2.26	0.50
1:LJ:48:THR:N	1:JS:22:LEU:HD21	2.27	0.50
1:LJ:137:ASP:CG	1:JS:50:VAL:CG2	2.79	0.50
7:SJ:20:ALA:N	7:SJ:32:ALA:O	2.45	0.50
1:CK:139:ARG:O	1:hR:83:GLY:N	2.45	0.50
1:CK:366:ASN:OD1	1:iR:108:MET:CG	2.32	0.50
1:JL:78:GLU:OE1	2:NL:23:ARG:NH2	2.44	0.50
5:DM:128:MET:SD	5:DM:132:ASN:ND2	2.85	0.50
5:NM:230:SER:HA	5:CO:266:THR:CG2	2.40	0.50
5:EN:26:GLU:HG2	5:EN:27:ARG:HD2	1.92	0.50
5:EN:140:ASP:CA	5:CN:139:LYS:HB3	2.27	0.50
3:AO:64:GLN:CB	1:IS:150:ASN:CG	2.76	0.50
1:BP:202:PHE:HA	1:BP:205:ILE:HB	1.93	0.50
1:CP:346:ASP:OD1	1:CP:346:ASP:N	2.45	0.50
1:BR:28:ASP:N	1:BR:28:ASP:OD1	2.43	0.50
1:JR:85:TYR:HD1	1:JR:122:GLY:HA2	1.76	0.50
2:MR:45:ILE:CG1	2:MR:46:HIS:H	2.23	0.50
1:aR:259:PHE:C	1:aR:260:GLN:HG2	2.37	0.50
1:jR:197:LEU:HD13	1:jR:340:LEU:HB3	1.94	0.50
1:CS:55:PHE:O	1:CS:57:LYS:NZ	2.40	0.50
1:CS:265:ASP:HB2	2:FS:41:TYR:HA	1.92	0.50
1:CS:348:ASN:H	2:FS:50:LYS:HE2	1.75	0.50
1:KS:197:LEU:HA	1:KS:200:LYS:HB2	1.93	0.50
1:D1:68:LEU:HB2	1:D1:161:SER:HB3	1.94	0.50
1:I1:361:LYS:NZ	1:Y6:370:ASP:OD1	2.43	0.50
2:P1:2:TYR:HB3	1:Q1:150:ASN:CG	2.32	0.50
1:Q1:58:ILE:HA	1:R6:85:TYR:O	2.10	0.50
1:Q1:62:LEU:HD13	2:X6:52:SER:O	2.12	0.50
1:Q1:75:LEU:HD22	2:M3:50:LYS:HD3	1.91	0.50
1:X1:62:LEU:HD13	2:P6:52:SER:O	2.12	0.50
1:X1:258:THR:HB	1:Z1:256:ALA:HB1	1.92	0.50
1:X1:375:TRP:CZ3	1:IR:367:PRO:HG3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c1:8:ARG:NH1	1:aR:152:ALA:O	2.45	0.50
1:f1:139:ARG:HD3	1:C3:81:PHE:O	2.11	0.50
1:f1:314:GLY:HA3	1:QG:31:LYS:NZ	2.26	0.50
3:A2:194:ASN:HD22	4:BA:3:ARG:CB	2.12	0.50
1:C3:49:PHE:CB	1:SG:137:ASP:OD2	2.59	0.50
1:C3:62:LEU:HD13	2:n7:52:SER:O	2.12	0.50
1:D3:197:LEU:HD13	1:D3:340:LEU:HB3	1.94	0.50
1:Q3:153:LEU:HD21	2:f8:4:GLY:HA3	1.92	0.50
1:Q3:319:TYR:HE1	1:J8:95:VAL:HG21	1.76	0.50
1:R3:139:ARG:NH2	2:W3:17:ASP:OD2	2.44	0.50
1:S3:14:VAL:O	1:CR:44:THR:HA	2.11	0.50
2:X3:31:SER:O	2:M6:45:ILE:HG12	2.10	0.50
1:Y3:123:ASN:HD21	1:BK:21:ALA:HB1	1.77	0.50
1:Y3:123:ASN:ND2	1:BK:21:ALA:HB2	2.27	0.50
2:a3:11:MET:HE3	1:BK:133:LEU:O	2.12	0.50
1:b3:123:ASN:ND2	1:BD:21:ALA:HB2	2.27	0.50
1:C4:152:ALA:HB2	2:fL:15:TYR:CD2	2.47	0.50
1:A4:357:LYS:HG2	2:F4:20:LEU:HD12	1.94	0.50
1:B4:137:ASP:OD2	1:aE:49:PHE:CB	2.59	0.50
1:J4:241:LEU:HD12	1:J4:271:ILE:HD11	1.93	0.50
1:Q4:153:LEU:HD21	2:fR:4:GLY:HA3	1.92	0.50
1:X4:49:PHE:CB	1:BR:137:ASP:OD2	2.59	0.50
1:g4:362:PRO:HD2	1:CD:365:HIS:NE2	2.27	0.50
1:h4:98:ASN:ND2	1:h4:99:MET:N	2.58	0.50
1:i4:30:SER:HA	1:CD:315:ALA:CB	2.23	0.50
5:D5:128:MET:SD	5:D5:132:ASN:ND2	2.85	0.50
1:C6:22:LEU:CB	1:iG:47:GLU:HG2	2.40	0.50
1:B6:28:ASP:OD1	1:B6:28:ASP:N	2.43	0.50
1:D6:68:LEU:HB2	1:D6:161:SER:HB3	1.94	0.50
1:Q6:53:TYR:CD2	1:LJ:223:GLY:HA3	2.45	0.50
1:Y6:62:LEU:HD13	2:RE:52:SER:O	2.12	0.50
1:Y6:319:TYR:HE1	1:LE:95:VAL:HG21	1.76	0.50
1:Z6:230:THR:HG21	1:KE:165:VAL:HG11	1.94	0.50
1:Z6:241:LEU:HD12	1:Z6:271:ILE:HD11	1.93	0.50
1:b6:197:LEU:HD13	1:b6:340:LEU:HB3	1.94	0.50
2:f6:15:TYR:CD2	1:QQ:152:ALA:HB2	2.47	0.50
1:g6:165:VAL:HG11	1:BE:230:THR:HG21	1.94	0.50
1:g6:360:LEU:HD22	2:JE:22:LYS:HG2	1.91	0.50
2:n6:52:SER:O	1:AE:62:LEU:HD13	2.12	0.50
1:C7:316:VAL:HG21	1:DP:33:TRP:CZ3	2.47	0.50
1:A7:241:LEU:HD12	1:A7:271:ILE:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F7:8:ARG:NH1	1:BQ:152:ALA:O	2.45	0.50
1:K7:47:GLU:HG2	1:CQ:22:LEU:CB	2.40	0.50
1:L7:197:LEU:HD13	1:L7:340:LEU:HB3	1.94	0.50
1:Q7:152:ALA:HB2	2:HG:15:TYR:CD2	2.47	0.50
1:Q7:153:LEU:HD21	2:HG:4:GLY:HA3	1.92	0.50
1:Q7:361:LYS:NZ	1:QR:370:ASP:OD1	2.43	0.50
1:Y7:22:LEU:CB	1:SQ:47:GLU:HG2	2.40	0.50
1:Y7:49:PHE:CB	1:SQ:137:ASP:OD2	2.59	0.50
1:Z7:85:TYR:HD1	1:Z7:122:GLY:HA2	1.76	0.50
1:Z7:139:ARG:NH2	2:e7:17:ASP:OD2	2.44	0.50
1:g7:31:LYS:NZ	1:AE:314:GLY:HA3	2.26	0.50
1:I8:31:LYS:NZ	1:IR:314:GLY:HA3	2.26	0.50
1:J8:241:LEU:HD12	1:J8:271:ILE:HD11	1.93	0.50
1:S8:47:GLU:HG2	1:IG:22:LEU:CB	2.40	0.50
1:a8:98:ASN:ND2	1:a8:99:MET:N	2.58	0.50
1:b8:240:ILE:HG12	1:b8:344:ILE:HG12	1.92	0.50
1:g8:316:VAL:HG23	1:DD:31:LYS:HD3	1.93	0.50
1:g8:367:PRO:HB2	1:KS:375:TRP:HB2	1.92	0.50
1:h8:357:LYS:HG2	2:l8:20:LEU:HD12	1.94	0.50
2:n8:15:TYR:CD2	1:IQ:152:ALA:HB2	2.47	0.50
4:B9:93:ALA:HB2	5:FA:42:SER:O	2.11	0.50
5:D9:128:MET:SD	5:D9:132:ASN:ND2	2.85	0.50
3:AA:114:PHE:C	2:MK:7:MET:O	2.52	0.50
3:AB:114:PHE:CE2	2:MD:19:ARG:CG	2.94	0.50
5:DB:45:TYR:HE2	5:EF:38:TYR:HB2	1.75	0.50
5:DB:128:MET:SD	5:DB:132:ASN:ND2	2.85	0.50
4:BC:10:ASP:OD2	5:FH:38:TYR:OH	2.24	0.50
1:BD:168:GLU:OE1	1:CD:211:ASN:ND2	2.44	0.50
2:HD:40:SER:OG	1:LD:264:ILE:C	2.53	0.50
1:KD:285:GLU:HG3	1:KD:313:VAL:HG13	1.93	0.50
1:LD:48:THR:N	1:KK:22:LEU:HD21	2.26	0.50
1:FE:240:ILE:HG12	1:FE:344:ILE:HG12	1.92	0.50
2:RE:15:TYR:CD2	1:SE:152:ALA:HB2	2.47	0.50
2:ZE:52:SER:O	1:IQ:62:LEU:HD13	2.12	0.50
1:bE:241:LEU:HD12	1:bE:271:ILE:HD11	1.93	0.50
1:cE:47:GLU:HG2	1:CG:22:LEU:CB	2.40	0.50
1:cE:259:PHE:C	1:cE:260:GLN:HG2	2.37	0.50
4:BF:250:ILE:CD1	3:AO:209:MET:CG	2.84	0.50
4:BF:251:TRP:CG	3:AO:208:LYS:CE	2.94	0.50
1:QG:153:LEU:HD21	2:HQ:4:GLY:HA3	1.92	0.50
2:UG:45:ILE:HG12	2:fL:31:SER:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gG:242:THR:HG21	1:gG:246:LEU:HD12	1.92	0.50
1:gG:358:GLY:HA2	2:HL:18:SER:HB2	1.92	0.50
1:jG:68:LEU:HB2	1:jG:161:SER:HB3	1.94	0.50
5:DH:128:MET:SD	5:DH:132:ASN:ND2	2.85	0.50
5:CH:265:LEU:HD23	5:NN:233:GLU:H	1.72	0.50
5:EI:140:ASP:N	5:CI:139:LYS:HB3	2.25	0.50
1:DJ:109:LEU:HG	1:KP:105:GLU:CD	2.35	0.50
1:KJ:15:ALA:C	1:LP:45:MET:CE	2.84	0.50
1:KJ:357:LYS:NZ	3:AN:66:ILE:HA	2.27	0.50
1:LJ:22:LEU:HD22	1:JS:47:GLU:CD	2.29	0.50
1:LJ:105:GLU:CB	1:gL:109:LEU:O	2.59	0.50
1:CK:144:THR:O	1:hR:82:ILE:HG12	2.11	0.50
1:BL:47:GLU:HG2	1:YR:22:LEU:CB	2.40	0.50
1:JL:367:PRO:O	1:LL:377:HIS:NE2	2.38	0.50
1:QL:58:ILE:HA	1:RR:85:TYR:O	2.10	0.50
1:QL:62:LEU:HD13	2:XR:52:SER:O	2.12	0.50
1:RL:85:TYR:HD1	1:RL:122:GLY:HA2	1.76	0.50
1:TL:68:LEU:HB2	1:TL:161:SER:HB3	1.94	0.50
2:XL:4:GLY:HA3	1:YL:153:LEU:HD21	1.92	0.50
1:YL:44:THR:HA	1:SR:14:VAL:O	2.11	0.50
1:YL:321:VAL:CG2	1:YL:327:PHE:CD2	2.92	0.50
1:ZL:241:LEU:HD12	1:ZL:271:ILE:HD11	1.93	0.50
1:ZL:357:LYS:HG2	2:dL:20:LEU:HD12	1.94	0.50
3:AM:112:ILE:O	2:LS:18:SER:N	2.44	0.50
5:DM:90:ASP:HA	5:DM:93:ARG:HB2	1.92	0.50
4:BN:90:THR:HB	4:BN:93:ALA:HB3	1.94	0.50
5:DN:128:MET:SD	5:DN:132:ASN:ND2	2.85	0.50
4:BO:90:THR:HB	4:BO:93:ALA:HB3	1.94	0.50
1:BP:134:ASN:HA	1:BP:371:GLU:HG3	1.92	0.50
1:BQ:259:PHE:C	1:BQ:260:GLN:HG2	2.37	0.50
1:SQ:152:ALA:O	2:NR:8:ARG:NH1	2.45	0.50
1:YQ:222:SER:HA	1:AS:38:LYS:HB3	1.93	0.50
1:eQ:143:GLN:HB3	1:hR:57:LYS:HB3	1.92	0.50
1:DR:197:LEU:HD13	1:DR:340:LEU:HB3	1.94	0.50
1:TR:197:LEU:HD13	1:TR:340:LEU:HB3	1.94	0.50
1:AS:168:GLU:OE1	1:BS:211:ASN:ND2	2.44	0.50
1:BS:346:ASP:OD1	1:BS:346:ASP:N	2.45	0.50
1:IS:110:LYS:O	1:KS:130:LYS:NZ	2.42	0.50
2:LS:31:SER:HA	2:LS:35:ASN:HB3	1.93	0.50
1:C1:22:LEU:CB	1:dQ:47:GLU:HG2	2.40	0.50
1:I1:375:TRP:CZ3	1:Y6:367:PRO:HG3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K1:259:PHE:C	1:K1:260:GLN:HG2	2.37	0.50
1:Q1:259:PHE:HE1	1:R6:259:PHE:HE1	1.48	0.50
1:R1:383:ALA:CA	1:CJ:34:THR:O	2.60	0.50
1:T1:68:LEU:HB2	1:T1:161:SER:HB3	1.94	0.50
1:X1:153:LEU:HD21	2:X3:4:GLY:HA3	1.92	0.50
1:Y1:241:LEU:HD12	1:Y1:271:ILE:HD11	1.93	0.50
1:Z1:14:VAL:O	1:IR:44:THR:HA	2.11	0.50
1:f1:153:LEU:HD21	2:n7:4:GLY:HA3	1.92	0.50
1:i1:197:LEU:HD13	1:i1:340:LEU:HB3	1.94	0.50
5:F2:46:TYR:CE2	5:EB:41:ASN:O	2.64	0.50
1:C3:152:ALA:HB2	2:H4:15:TYR:CD2	2.47	0.50
1:A3:78:GLU:OE1	2:F3:23:ARG:NH2	2.44	0.50
1:B3:129:GLN:NE2	1:B3:159:LYS:O	2.41	0.50
1:B3:259:PHE:C	1:B3:260:GLN:HG2	2.37	0.50
1:D3:68:LEU:HB2	1:D3:161:SER:HB3	1.94	0.50
1:I3:31:LYS:NZ	1:QL:314:GLY:HA3	2.26	0.50
1:I3:62:LEU:HD13	2:X8:52:SER:O	2.12	0.50
1:J3:85:TYR:HD1	1:J3:122:GLY:HA2	1.76	0.50
2:V3:8:ARG:NH1	1:KR:152:ALA:O	2.45	0.50
1:C4:31:LYS:NZ	1:CG:314:GLY:HA3	2.26	0.50
1:C4:44:THR:HA	1:BG:14:VAL:O	2.11	0.50
1:C4:81:PHE:O	1:aE:139:ARG:HD3	2.11	0.50
1:A4:57:LYS:HB3	1:DR:143:GLN:HB3	1.92	0.50
1:D4:68:LEU:HB2	1:D4:161:SER:HB3	1.94	0.50
1:L4:240:ILE:HG12	1:L4:344:ILE:HG12	1.92	0.50
1:L4:351:LYS:NZ	1:TR:60:GLU:OE2	2.43	0.50
2:P4:15:TYR:CD2	1:AE:152:ALA:HB2	2.47	0.50
1:Q4:31:LYS:NZ	1:IL:314:GLY:HA3	2.26	0.50
1:T4:149:THR:O	2:GS:2:TYR:CE2	2.51	0.50
1:X4:62:LEU:HD13	2:f8:52:SER:O	2.12	0.50
1:f4:44:THR:HA	1:B6:14:VAL:O	2.11	0.50
1:f4:139:ARG:HD2	1:C6:81:PHE:HE2	1.63	0.50
1:g4:95:VAL:HG21	1:YG:319:TYR:HE1	1.76	0.50
3:A5:201:TYR:HE2	5:DM:31:PHE:HZ	1.59	0.50
5:F5:42:SER:O	4:BN:93:ALA:HB2	2.11	0.50
1:I6:31:LYS:NZ	1:YR:314:GLY:HA3	2.26	0.50
1:L6:143:GLN:HB3	1:J8:57:LYS:HB3	1.92	0.50
1:Q6:45:MET:HG2	1:CJ:14:VAL:CA	2.38	0.50
1:T6:197:LEU:HD13	1:T6:340:LEU:HB3	1.94	0.50
1:Y6:152:ALA:HB2	2:PG:15:TYR:CD2	2.47	0.50
1:Y6:375:TRP:CZ3	1:SE:367:PRO:HG3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:46:PHE:HZ	1:CP:39:TRP:CH2	2.29	0.50
2:n6:15:TYR:CD2	1:g7:152:ALA:HB2	2.47	0.50
1:C7:13:LEU:C	1:CK:45:MET:SD	2.92	0.50
1:C7:62:LEU:HD13	2:mR:52:SER:O	2.12	0.50
1:B7:98:ASN:ND2	1:B7:99:MET:N	2.58	0.50
1:K7:129:GLN:NE2	1:K7:159:LYS:O	2.41	0.50
1:R7:85:TYR:O	1:QQ:58:ILE:HA	2.10	0.50
1:S7:98:ASN:ND2	1:S7:99:MET:N	2.58	0.50
1:Y7:371:GLU:CD	1:JR:111:ARG:HD3	2.31	0.50
1:Y7:375:TRP:CZ3	1:KE:367:PRO:HG3	2.47	0.50
1:g7:314:GLY:HA3	1:C8:31:LYS:NZ	2.26	0.50
1:g7:367:PRO:HG3	1:AE:375:TRP:CZ3	2.47	0.50
1:A8:241:LEU:HD12	1:A8:271:ILE:HD11	1.93	0.50
1:B8:259:PHE:C	1:B8:260:GLN:HG2	2.37	0.50
1:R8:85:TYR:HD1	1:R8:122:GLY:HA2	1.76	0.50
1:i8:143:GLN:O	1:BD:82:ILE:HD13	2.11	0.50
1:j8:197:LEU:HD13	1:j8:340:LEU:HB3	1.94	0.50
5:CA:265:LEU:CD1	5:NC:231:ASN:CA	2.74	0.50
3:AC:155:GLU:OE1	1:AP:58:ILE:HG12	2.11	0.50
1:LD:26:ASN:OD1	1:BK:100:ASP:OD1	2.22	0.50
2:MD:15:TYR:O	1:KK:145:LEU:CG	2.59	0.50
2:MD:31:SER:HA	2:MD:35:ASN:HB3	1.93	0.50
1:BE:222:SER:HA	1:CP:38:LYS:CB	2.30	0.50
1:CE:100:ASP:HA	1:CP:25:PHE:C	2.24	0.50
1:FE:197:LEU:HD13	1:FE:340:LEU:HB3	1.94	0.50
1:KE:81:PHE:O	1:QQ:139:ARG:HD3	2.11	0.50
1:UE:28:ASP:N	1:UE:28:ASP:OD1	2.43	0.50
1:bE:85:TYR:HD1	1:bE:122:GLY:HA2	1.75	0.50
1:cE:28:ASP:N	1:cE:28:ASP:OD1	2.43	0.50
1:cE:137:ASP:OD2	1:CG:49:PHE:CB	2.59	0.50
1:dE:240:ILE:HG12	1:dE:344:ILE:HG12	1.92	0.50
2:hE:52:SER:O	1:CR:62:LEU:HD13	2.12	0.50
5:DF:45:TYR:HE2	5:EM:38:TYR:HB2	1.76	0.50
5:DF:128:MET:SD	5:DF:132:ASN:ND2	2.85	0.50
1:CG:152:ALA:HB2	2:HR:15:TYR:CD2	2.47	0.50
1:AG:85:TYR:HD1	1:AG:122:GLY:HA2	1.76	0.50
1:JG:241:LEU:HD12	1:JG:271:ILE:HD11	1.93	0.50
1:SG:129:GLN:NE2	1:SG:159:LYS:O	2.41	0.50
4:BI:32:PHE:CE1	5:FM:51:ARG:CD	2.90	0.50
4:BI:251:TRP:CG	3:AN:208:LYS:CE	2.94	0.50
5:EI:38:TYR:HB2	5:DO:45:TYR:HE2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:140:PHE:CE1	3:AN:26:ARG:NH2	2.78	0.50
1:AJ:302:ASP:OD2	1:AJ:305:SER:OG	2.25	0.50
1:DJ:174:MET:CA	1:LP:33:TRP:NE1	2.50	0.50
1:KJ:104:ASN:ND2	1:KJ:106:GLU:OE2	2.45	0.50
1:KJ:153:LEU:HD11	2:MP:2:TYR:HD2	1.60	0.50
1:KJ:368:GLU:N	1:AP:375:TRP:NE1	2.54	0.50
1:AK:60:GLU:HG2	1:KK:86:SER:CB	2.41	0.50
1:KK:182:GLN:HB3	1:KK:220:ARG:HH12	1.76	0.50
1:LK:35:PHE:CD1	1:DP:384:ILE:CD1	2.86	0.50
1:DL:197:LEU:HD13	1:DL:340:LEU:HB3	1.94	0.50
1:IL:58:ILE:HA	1:ZR:85:TYR:O	2.10	0.50
1:IL:139:ARG:HD3	1:IQ:81:PHE:O	2.11	0.50
1:LL:68:LEU:HB2	1:LL:161:SER:HB3	1.94	0.50
1:LL:197:LEU:HD13	1:LL:340:LEU:HB3	1.94	0.50
1:YL:367:PRO:HG3	1:QR:375:TRP:CZ3	2.47	0.50
1:aL:152:ALA:O	2:VQ:8:ARG:NH1	2.45	0.50
1:KQ:129:GLN:NE2	1:KQ:159:LYS:O	2.41	0.50
1:LQ:197:LEU:HD13	1:LQ:340:LEU:HB3	1.94	0.50
1:RQ:139:ARG:NH2	2:WQ:17:ASP:OD2	2.44	0.50
1:TQ:68:LEU:HB2	1:TQ:161:SER:HB3	1.94	0.50
1:YQ:179:SER:HG	1:YQ:341:TYR:HH	1.54	0.50
1:eQ:68:LEU:HB2	1:eQ:161:SER:HB3	1.94	0.50
1:SR:129:GLN:NE2	1:SR:159:LYS:O	2.41	0.50
7:NS:20:ALA:N	7:NS:32:ALA:O	2.45	0.50
1:C1:44:THR:HA	1:dQ:14:VAL:O	2.11	0.50
1:I1:31:LYS:NZ	1:SE:314:GLY:HA3	2.26	0.50
1:J1:230:THR:HG21	1:IG:165:VAL:HG11	1.94	0.50
1:J1:241:LEU:HD12	1:J1:271:ILE:HD11	1.93	0.50
1:J1:357:LYS:HG2	2:N1:20:LEU:HD12	1.94	0.50
1:K1:152:ALA:O	2:PE:8:ARG:NH1	2.45	0.50
1:R1:85:TYR:HD1	1:R1:122:GLY:HA2	1.76	0.50
1:R1:357:LYS:HG2	2:U1:20:LEU:HD12	1.94	0.50
1:S1:98:ASN:ND2	1:S1:99:MET:N	2.58	0.50
1:X1:44:THR:HA	1:K8:14:VAL:O	2.11	0.50
1:Y1:357:LYS:HG2	2:c1:20:LEU:HD12	1.94	0.50
1:f1:58:ILE:HA	1:AQ:85:TYR:O	2.10	0.50
1:f1:370:ASP:OD1	1:C3:361:LYS:NZ	2.43	0.50
1:g1:95:VAL:HG21	1:CQ:319:TYR:HE1	1.76	0.50
1:i1:68:LEU:HB2	1:i1:161:SER:HB3	1.94	0.50
5:F2:42:SER:O	4:BB:93:ALA:HB2	2.11	0.50
1:B3:152:ALA:O	2:FQ:8:ARG:NH1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P3:52:SER:O	1:Q8:62:LEU:HD13	2.12	0.50
1:Q3:375:TRP:CZ3	1:CR:367:PRO:HG3	2.47	0.50
1:R3:95:VAL:HG21	1:I8:319:TYR:HE1	1.76	0.50
1:b3:143:GLN:HB3	1:h8:57:LYS:HB3	1.92	0.50
1:b3:222:SER:HA	1:BD:38:LYS:HB3	1.93	0.50
1:A4:85:TYR:O	1:QG:58:ILE:HA	2.10	0.50
1:A4:230:THR:HG21	1:QG:165:VAL:HG11	1.94	0.50
1:A4:241:LEU:HD12	1:A4:271:ILE:HD11	1.93	0.50
1:D4:197:LEU:HD13	1:D4:340:LEU:HB3	1.94	0.50
1:Q4:58:ILE:HA	1:h8:85:TYR:O	2.10	0.50
1:R4:108:MET:SD	1:DD:366:ASN:HA	2.51	0.50
1:T4:45:MET:HA	1:AS:20:SER:HB3	1.94	0.50
1:X4:44:THR:HA	1:BR:14:VAL:O	2.11	0.50
1:f4:139:ARG:HD3	1:C6:81:PHE:O	2.11	0.50
1:g4:383:ALA:CA	1:CD:34:THR:O	2.60	0.50
1:i4:68:LEU:HB2	1:i4:161:SER:HB3	1.94	0.50
2:l4:52:SER:O	1:YG:62:LEU:HD13	2.12	0.50
1:C6:44:THR:HA	1:iG:14:VAL:O	2.11	0.50
1:L6:92:MET:HB2	1:L6:115:ARG:HB2	1.94	0.50
1:S6:30:SER:O	1:AS:315:ALA:HA	2.11	0.50
1:Y6:81:PHE:O	1:SE:139:ARG:HD3	2.11	0.50
2:f6:4:GLY:HA3	1:QQ:153:LEU:HD21	1.92	0.50
1:g6:28:ASP:CA	1:AP:100:ASP:OD2	2.60	0.50
1:g6:31:LYS:O	1:LP:125:ILE:HD12	2.10	0.50
1:g6:315:ALA:CB	1:DJ:31:LYS:HZ1	2.15	0.50
1:h6:95:VAL:HG21	1:AE:319:TYR:HE1	1.76	0.50
2:l6:8:ARG:NH1	1:B8:152:ALA:O	2.45	0.50
1:C7:25:PHE:C	1:AK:100:ASP:OD1	2.55	0.50
1:C7:165:VAL:HG11	1:hR:230:THR:HG21	1.94	0.50
1:A7:357:LYS:HG2	2:F7:20:LEU:HD12	1.94	0.50
1:D7:106:GLU:HB3	1:CP:109:LEU:HD11	1.93	0.50
1:I7:61:THR:CG2	1:cQ:89:TYR:CE1	2.94	0.50
2:c7:44:GLN:OE1	2:c7:44:GLN:HA	2.02	0.50
1:h7:241:LEU:HD12	1:h7:271:ILE:HD11	1.93	0.50
1:j7:60:GLU:OE2	1:TG:351:LYS:NZ	2.43	0.50
1:C8:375:TRP:CZ3	1:AE:367:PRO:HG3	2.47	0.50
1:A8:357:LYS:HG2	2:F8:20:LEU:HD12	1.94	0.50
1:I8:21:ALA:HB3	1:KR:47:GLU:O	2.12	0.50
1:I8:139:ARG:HD3	1:IR:81:PHE:HD2	1.64	0.50
2:M8:45:ILE:HG12	2:f8:31:SER:O	2.11	0.50
1:b8:68:LEU:HB2	1:b8:161:SER:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j8:68:LEU:HB2	1:j8:161:SER:HB3	1.94	0.50
5:D9:90:ASP:HA	5:D9:93:ARG:HB2	1.92	0.50
4:BA:32:PHE:HD2	5:FH:55:LEU:HD11	1.64	0.50
3:AB:154:ILE:HA	3:AB:157:ILE:HG22	1.94	0.50
4:BC:30:LEU:N	5:EN:64:TRP:HE1	2.00	0.50
4:BC:90:THR:HB	4:BC:93:ALA:HB3	1.94	0.50
1:AD:100:ASP:OD1	1:YG:27:HIS:O	2.29	0.50
1:AD:145:LEU:HD22	3:AF:33:ASN:C	2.19	0.50
2:FD:30:MET:HA	2:FD:34:THR:HB	1.93	0.50
7:ID:20:ALA:N	7:ID:32:ALA:O	2.45	0.50
1:KD:55:PHE:CG	1:IS:120:LEU:CD1	2.93	0.50
1:KD:296:PHE:HE2	1:KD:321:VAL:HG23	1.77	0.50
7:OD:20:ALA:N	7:OD:32:ALA:O	2.45	0.50
1:AE:208:LEU:HD12	1:AE:391:ILE:HD11	1.89	0.50
1:BE:383:ALA:CA	1:CP:34:THR:O	2.60	0.50
1:KE:375:TRP:CZ3	1:QQ:367:PRO:HG3	2.47	0.50
2:ZE:15:TYR:CD2	1:IL:152:ALA:HB2	2.47	0.50
5:DF:116:LEU:HD22	5:EF:116:LEU:HD13	1.92	0.50
1:AG:139:ARG:NH2	2:GG:17:ASP:OD2	2.44	0.50
1:LG:240:ILE:HG12	1:LG:344:ILE:HG12	1.92	0.50
1:YG:208:LEU:CD1	1:YG:391:ILE:HD12	1.95	0.50
1:YG:316:VAL:HG21	1:DK:33:TRP:CZ3	2.47	0.50
1:aG:13:LEU:C	1:DK:45:MET:CG	2.70	0.50
1:aG:143:GLN:O	1:BK:82:ILE:HD13	2.11	0.50
1:hG:89:TYR:CE1	1:CL:61:THR:CG2	2.94	0.50
3:AH:201:TYR:HE2	5:DI:31:PHE:HZ	1.59	0.50
5:DI:90:ASP:HA	5:DI:93:ARG:HB2	1.92	0.50
5:EI:140:ASP:HB3	5:CI:139:LYS:HZ3	1.76	0.50
1:AJ:240:ILE:HB	1:AJ:270:VAL:HA	1.94	0.50
1:BJ:100:ASP:OD1	1:LP:26:ASN:OD1	2.22	0.50
1:DJ:348:ASN:H	2:GJ:50:LYS:HE2	1.75	0.50
1:KJ:145:LEU:CG	2:MP:15:TYR:O	2.59	0.50
1:AK:110:LYS:O	1:LK:130:LYS:NZ	2.42	0.50
1:CK:34:THR:O	1:hR:383:ALA:CA	2.60	0.50
1:CK:365:HIS:NE2	1:hR:362:PRO:HD2	2.27	0.50
1:KK:105:GLU:CD	1:DP:109:LEU:HG	2.35	0.50
1:LK:45:MET:CE	1:KP:13:LEU:O	2.55	0.50
1:BL:129:GLN:NE2	1:BL:159:LYS:O	2.41	0.50
1:IL:370:ASP:OD1	1:IQ:361:LYS:NZ	2.43	0.50
1:JL:95:VAL:HG21	1:YR:319:TYR:HE1	1.76	0.50
2:XL:15:TYR:CD2	1:YL:152:ALA:HB2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bL:68:LEU:HB2	1:bL:161:SER:HB3	1.94	0.50
1:bL:197:LEU:HD13	1:bL:340:LEU:HB3	1.94	0.50
5:EM:44:SER:OG	4:BO:4:TYR:HB3	2.12	0.50
3:AO:155:GLU:CA	1:IS:143:GLN:O	2.60	0.50
1:BP:168:GLU:OE1	1:CP:211:ASN:ND2	2.44	0.50
1:KP:182:GLN:HB3	1:KP:220:ARG:HH12	1.76	0.50
1:CQ:314:GLY:HA3	1:gR:31:LYS:NZ	2.26	0.50
1:JQ:78:GLU:OE1	2:NQ:23:ARG:NH2	2.44	0.50
1:KQ:152:ALA:O	2:dR:8:ARG:NH1	2.45	0.50
1:KQ:259:PHE:C	1:KQ:260:GLN:HG2	2.37	0.50
1:LQ:68:LEU:HB2	1:LQ:161:SER:HB3	1.94	0.50
1:bQ:242:THR:HG21	1:bQ:246:LEU:HD12	1.92	0.50
1:AR:357:LYS:HG2	2:FR:20:LEU:HD12	1.94	0.50
1:IR:242:THR:HG21	1:IR:246:LEU:HD12	1.92	0.50
1:jR:92:MET:HB2	1:jR:115:ARG:HB2	1.94	0.50
1:AS:237:ASP:OD1	1:AS:237:ASP:N	2.43	0.50
7:HS:20:ALA:N	7:HS:32:ALA:O	2.45	0.50
1:JS:296:PHE:HE2	1:JS:321:VAL:HG23	1.77	0.50
1:C1:81:PHE:O	1:Y8:139:ARG:HD3	2.11	0.50
1:B1:14:VAL:O	1:Y8:44:THR:HA	2.11	0.50
1:I1:208:LEU:HD12	1:I1:391:ILE:HD11	1.89	0.50
1:Q1:81:PHE:O	1:Q8:139:ARG:HD3	2.11	0.50
2:U1:5:ASN:O	1:CJ:153:LEU:HD12	2.10	0.50
1:X1:165:VAL:HG11	1:J6:230:THR:HG21	1.94	0.50
1:a1:197:LEU:HD13	1:a1:340:LEU:HB3	1.94	0.50
2:e1:15:TYR:CD2	1:CL:152:ALA:HB2	2.47	0.50
1:f1:152:ALA:HB2	2:n7:15:TYR:CD2	2.47	0.50
5:N2:233:GLU:H	5:CB:265:LEU:HD23	1.72	0.50
1:I3:61:THR:CG2	1:R8:89:TYR:CE1	2.94	0.50
1:K3:137:ASP:OD2	1:I4:49:PHE:CB	2.59	0.50
1:L3:197:LEU:HD13	1:L3:340:LEU:HB3	1.94	0.50
2:P3:15:TYR:CD2	1:IG:152:ALA:HB2	2.47	0.50
2:U3:45:ILE:HG12	2:f7:31:SER:O	2.11	0.50
2:Z3:45:ILE:HG12	2:l4:31:SER:O	2.11	0.50
1:b3:123:ASN:HD21	1:BD:21:ALA:HB1	1.77	0.50
1:A4:259:PHE:HE1	1:QG:259:PHE:HE1	1.48	0.50
1:B4:259:PHE:C	1:B4:260:GLN:HG2	2.37	0.50
1:I4:152:ALA:HB2	2:X8:15:TYR:CD2	2.47	0.50
1:I4:165:VAL:HG11	1:A8:230:THR:HG21	1.94	0.50
1:I4:319:TYR:HE1	1:A8:95:VAL:HG21	1.76	0.50
1:J4:230:THR:HG21	1:C8:165:VAL:HG11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K4:28:ASP:N	1:K4:28:ASP:OD1	2.43	0.50
1:Q4:165:VAL:HG11	1:h8:230:THR:HG21	1.94	0.50
1:Q4:319:TYR:HE1	1:h8:95:VAL:HG21	1.76	0.50
1:S4:129:GLN:NE2	1:S4:159:LYS:O	2.41	0.50
1:X4:165:VAL:HG11	1:Z8:230:THR:HG21	1.94	0.50
1:X4:319:TYR:HE1	1:Z8:95:VAL:HG21	1.76	0.50
1:g4:89:TYR:CE1	1:YG:61:THR:CG2	2.94	0.50
1:g4:119:LYS:HD2	1:CD:36:GLY:CA	2.42	0.50
1:g4:230:THR:HG21	1:YG:165:VAL:HG11	1.94	0.50
1:i4:54:LEU:HD11	1:CD:116:MET:SD	2.52	0.50
5:D5:24:THR:OG1	5:FN:29:THR:CB	2.60	0.50
2:F6:1:MET:H3	1:dQ:150:ASN:HD21	1.60	0.50
1:g6:25:PHE:C	1:AP:100:ASP:OD1	2.55	0.50
1:g6:27:HIS:HB2	1:LP:312:PRO:CG	2.36	0.50
1:g6:316:VAL:HG21	1:DJ:33:TRP:CZ3	2.47	0.50
1:i6:259:PHE:C	1:i6:260:GLN:HG2	2.37	0.50
2:n6:22:LYS:HG2	1:AE:360:LEU:HD23	1.89	0.50
1:C7:319:TYR:HE1	1:hR:95:VAL:HG21	1.76	0.50
1:B7:44:THR:O	1:DP:16:LYS:HG2	2.10	0.50
1:J7:357:LYS:HG2	2:N7:20:LEU:HD12	1.94	0.50
1:K7:47:GLU:O	1:CQ:21:ALA:HB3	2.12	0.50
1:Q7:81:PHE:O	1:QR:139:ARG:HD3	2.11	0.50
1:R7:241:LEU:HD12	1:R7:271:ILE:HD11	1.93	0.50
1:Y7:21:ALA:HB3	1:SQ:47:GLU:O	2.12	0.50
1:Y7:319:TYR:HE1	1:JR:95:VAL:HG21	1.76	0.50
1:g7:139:ARG:HD3	1:AE:81:PHE:O	2.11	0.50
1:D8:68:LEU:HB2	1:D8:161:SER:HB3	1.94	0.50
1:I8:242:THR:HG21	1:I8:246:LEU:HD12	1.92	0.50
1:T8:68:LEU:HB2	1:T8:161:SER:HB3	1.94	0.50
1:T8:197:LEU:HD13	1:T8:340:LEU:HB3	1.94	0.50
1:h8:241:LEU:HD12	1:h8:271:ILE:HD11	1.93	0.50
5:E9:11:PHE:HB2	5:DA:67:ASP:CB	2.38	0.50
5:DA:128:MET:SD	5:DA:132:ASN:ND2	2.85	0.50
5:EA:41:ASN:O	5:FC:46:TYR:HE2	1.93	0.50
4:BB:251:TRP:CG	3:AM:208:LYS:CE	2.94	0.50
5:FB:42:SER:O	4:BF:93:ALA:HB2	2.11	0.50
1:CD:39:TRP:CH2	1:YG:46:PHE:HZ	2.30	0.50
1:CD:355:TYR:HE1	1:CD:357:LYS:HZ1	1.58	0.50
2:FD:16:GLU:HB3	1:KS:149:THR:HG23	1.94	0.50
1:KD:30:SER:CA	1:IS:315:ALA:HA	2.37	0.50
1:KD:35:PHE:CE1	1:IS:178:TYR:HB2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:375:TRP:HB2	1:YG:367:PRO:HB2	1.92	0.50
2:GE:11:MET:HE3	1:BP:133:LEU:O	2.12	0.50
1:ME:47:GLU:O	1:QQ:21:ALA:HB3	2.12	0.50
2:OE:45:ILE:CG1	2:OE:46:HIS:H	2.23	0.50
1:TE:241:LEU:HD12	1:TE:271:ILE:HD11	1.93	0.50
2:ZE:4:GLY:HA3	1:IL:153:LEU:HD21	1.92	0.50
1:aE:81:PHE:O	1:CG:139:ARG:HD3	2.11	0.50
1:cE:129:GLN:NE2	1:cE:159:LYS:O	2.41	0.50
5:FF:46:TYR:CE2	5:EM:41:ASN:O	2.64	0.50
2:HG:31:SER:O	2:UQ:45:ILE:HG12	2.10	0.50
2:UG:45:ILE:CG1	2:UG:46:HIS:H	2.23	0.50
2:fG:15:TYR:CD2	1:gG:152:ALA:HB2	2.47	0.50
3:AH:150:TYR:CD2	1:AP:145:LEU:HD12	2.47	0.50
4:BH:195:LYS:H	4:BN:144:GLN:NE2	2.09	0.50
5:EH:38:TYR:HB2	5:DN:45:TYR:HE2	1.76	0.50
3:AI:105:LYS:O	2:MJ:19:ARG:HD2	2.11	0.50
5:EI:64:TRP:CD1	4:BN:30:LEU:CB	2.95	0.50
1:BJ:38:LYS:HB3	1:gL:222:SER:HA	1.93	0.50
1:KJ:78:GLU:CD	3:AN:81:LEU:HD13	1.90	0.50
1:KJ:139:ARG:NH1	1:AP:355:TYR:CZ	2.75	0.50
1:AK:120:LEU:HD12	1:KP:55:PHE:CB	2.35	0.50
1:BK:22:LEU:HD22	1:jR:47:GLU:HG2	1.94	0.50
1:CK:36:GLY:HA3	1:hR:119:LYS:CG	2.41	0.50
1:CK:53:TYR:CD1	1:hR:223:GLY:CA	2.92	0.50
1:CK:128:LYS:HA	1:CK:376:ILE:O	2.11	0.50
1:LK:27:HIS:CD2	1:DP:312:PRO:HD3	2.46	0.50
1:BL:47:GLU:O	1:YR:21:ALA:HB3	2.12	0.50
1:DL:68:LEU:HB2	1:DL:161:SER:HB3	1.94	0.50
1:RL:357:LYS:HG2	2:VL:20:LEU:HD12	1.94	0.50
1:AP:240:ILE:HB	1:AP:270:VAL:HA	1.94	0.50
1:AR:367:PRO:O	1:DR:377:HIS:NE2	2.38	0.50
1:ZR:357:LYS:HG2	2:dR:20:LEU:HD12	1.94	0.50
1:JS:285:GLU:HG3	1:JS:313:VAL:HG13	1.94	0.50
1:D1:197:LEU:HD13	1:D1:340:LEU:HB3	1.94	0.50
1:I1:165:VAL:HG11	1:JG:230:THR:HG21	1.94	0.50
1:J1:95:VAL:HG21	1:IG:319:TYR:HE1	1.76	0.50
1:L1:68:LEU:HB2	1:L1:161:SER:HB3	1.94	0.50
1:R1:259:PHE:HE1	1:Q6:259:PHE:HE1	1.48	0.50
1:X1:208:LEU:HD12	1:X1:391:ILE:HD11	1.89	0.50
1:f1:167:GLU:OE2	1:f1:352:TYR:OH	2.26	0.50
4:B2:250:ILE:CD1	3:AF:209:MET:CG	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F2:29:THR:CB	5:D9:24:THR:OG1	2.60	0.50
5:F2:46:TYR:HE2	5:EB:41:ASN:O	1.93	0.50
5:C2:266:THR:OG1	5:N9:228:ARG:HG2	2.12	0.50
1:C3:367:PRO:HG3	1:QG:375:TRP:CZ3	2.47	0.50
1:I3:139:ARG:HD3	1:QL:81:PHE:O	2.11	0.50
1:L3:68:LEU:HB2	1:L3:161:SER:HB3	1.94	0.50
1:Q3:62:LEU:HD13	2:P8:52:SER:O	2.12	0.50
1:Q3:371:GLU:CD	1:J8:111:ARG:HD3	2.32	0.50
1:A4:95:VAL:HG21	1:QG:319:TYR:HE1	1.76	0.50
2:H4:31:SER:O	2:k7:45:ILE:HG12	2.11	0.50
2:N4:8:ARG:NH1	1:i7:152:ALA:O	2.45	0.50
1:Q4:81:PHE:O	1:IQ:139:ARG:HD3	2.11	0.50
1:R4:82:ILE:HG12	1:BS:144:THR:O	2.11	0.50
1:R4:362:PRO:HD2	1:BS:365:HIS:NE2	2.27	0.50
1:R4:383:ALA:CA	1:BS:34:THR:O	2.60	0.50
1:T4:34:THR:HG21	1:BS:122:GLY:H	1.77	0.50
1:X4:61:THR:CG2	1:Z8:89:TYR:CE1	2.94	0.50
1:Y4:230:THR:HG21	1:Y8:165:VAL:HG11	1.94	0.50
2:e4:15:TYR:CD2	1:bQ:152:ALA:HB2	2.47	0.50
2:e4:52:SER:O	1:Y8:62:LEU:HD13	2.12	0.50
1:f4:165:VAL:HG11	1:ZG:230:THR:HG21	1.94	0.50
1:f4:208:LEU:HD12	1:f4:391:ILE:HD11	1.89	0.50
1:h4:105:GLU:O	1:LD:109:LEU:CD2	2.36	0.50
1:i4:45:MET:HA	1:BD:20:SER:HB3	1.94	0.50
3:A5:7:GLY:N	5:DO:24:THR:CA	2.47	0.50
1:C6:152:ALA:HB2	2:HL:15:TYR:CD2	2.47	0.50
1:Q6:20:SER:CB	1:CJ:47:GLU:HB3	2.41	0.50
1:Q6:27:HIS:O	1:AJ:100:ASP:OD1	2.29	0.50
1:S6:46:PHE:HZ	1:CS:39:TRP:CZ3	2.30	0.50
1:S6:143:GLN:O	1:AS:82:ILE:HD13	2.11	0.50
1:T6:68:LEU:HB2	1:T6:161:SER:HB3	1.94	0.50
1:Y6:61:THR:CG2	1:LE:89:TYR:CE1	2.94	0.50
1:Y6:358:GLY:HA2	2:RE:18:SER:HB2	1.92	0.50
1:h6:89:TYR:CE1	1:AE:61:THR:CG2	2.94	0.50
1:h6:357:LYS:HG2	2:l6:20:LEU:HD12	1.94	0.50
1:C7:14:VAL:CG1	1:CK:45:MET:HE3	2.33	0.50
1:A7:367:PRO:O	1:D7:377:HIS:NE2	2.38	0.50
1:D7:197:LEU:HD13	1:D7:340:LEU:HB3	1.94	0.50
2:H7:15:TYR:CD2	1:I7:152:ALA:HB2	2.47	0.50
1:L7:68:LEU:HB2	1:L7:161:SER:HB3	1.94	0.50
1:Q7:139:ARG:HD3	1:YL:81:PHE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R7:230:THR:HG21	1:QQ:165:VAL:HG11	1.94	0.50
1:Y7:139:ARG:HD3	1:QQ:81:PHE:O	2.11	0.50
1:Z7:95:VAL:HG21	1:IR:319:TYR:HE1	1.76	0.50
1:I8:139:ARG:HD3	1:IR:81:PHE:O	2.11	0.50
1:K8:259:PHE:C	1:K8:260:GLN:HG2	2.37	0.50
1:S8:137:ASP:OD2	1:IG:49:PHE:CB	2.59	0.50
1:g8:31:LYS:O	1:KS:125:ILE:HD12	2.10	0.50
5:E9:140:ASP:HB3	5:C9:139:LYS:HZ3	1.77	0.50
5:DA:31:PHE:HZ	3:AB:201:TYR:HE2	1.59	0.50
5:EB:64:TRP:CD1	4:BM:30:LEU:CB	2.95	0.50
3:AC:33:ASN:O	1:AP:145:LEU:HD11	2.12	0.50
4:BC:93:ALA:HB2	5:FH:42:SER:O	2.11	0.50
1:LD:129:GLN:NE2	1:LD:159:LYS:O	2.45	0.50
7:SD:20:ALA:N	7:SD:32:ALA:O	2.45	0.50
1:FE:47:GLU:HG2	1:BP:22:LEU:HD22	1.94	0.50
1:TE:230:THR:HG21	1:IQ:165:VAL:HG11	1.94	0.50
1:UE:152:ALA:O	2:NG:8:ARG:NH1	2.45	0.50
2:ZE:53:PHE:O	1:IQ:62:LEU:HD11	2.03	0.50
5:EF:44:SER:OG	4:BM:4:TYR:HB3	2.12	0.50
5:EF:57:GLU:HG2	4:BO:33:TYR:HE1	1.76	0.50
5:EF:140:ASP:CA	5:CF:139:LYS:HB3	2.27	0.50
5:NF:228:ARG:HG2	5:CM:266:THR:OG1	2.12	0.50
1:AG:230:THR:HG21	1:YL:165:VAL:HG11	1.94	0.50
1:YG:316:VAL:CA	1:DK:31:LYS:NZ	2.38	0.50
1:aG:46:PHE:HZ	1:DK:39:TRP:CZ3	2.29	0.50
1:jG:92:MET:HB2	1:jG:115:ARG:HB2	1.94	0.50
4:BI:250:ILE:CG1	3:AN:208:LYS:O	2.57	0.50
5:DI:116:LEU:HD22	5:EI:116:LEU:HD13	1.92	0.50
1:AJ:115:ARG:NH1	1:LJ:298:ARG:O	2.45	0.50
1:DJ:120:LEU:O	1:LP:37:ASP:N	2.45	0.50
1:DJ:237:ASP:N	1:DJ:237:ASP:OD1	2.41	0.50
1:LJ:37:ASP:N	1:CS:120:LEU:O	2.45	0.50
1:CK:116:MET:SD	1:jR:54:LEU:HD11	2.52	0.50
1:CK:150:ASN:HD21	2:kR:1:MET:CA	2.14	0.50
1:CK:377:HIS:CE1	1:jR:367:PRO:O	2.63	0.50
1:AL:357:LYS:HG2	2:FL:20:LEU:HD12	1.94	0.50
1:SL:98:ASN:ND2	1:SL:99:MET:N	2.58	0.50
2:XL:52:SER:O	1:QR:62:LEU:HD13	2.12	0.50
1:YL:31:LYS:NZ	1:QR:314:GLY:HA3	2.26	0.50
3:AO:65:ASN:H	1:IS:146:ALA:HB1	1.64	0.50
1:BP:210:ASN:OD1	1:DP:71:ARG:NH2	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:357:LYS:HG2	2:FQ:20:LEU:HD12	1.94	0.50
1:RQ:357:LYS:HG2	2:VQ:20:LEU:HD12	1.94	0.50
2:aQ:11:MET:HE3	1:AS:133:LEU:O	2.11	0.50
1:LR:92:MET:HB2	1:LR:115:ARG:HB2	1.94	0.50
1:TR:68:LEU:HB2	1:TR:161:SER:HB3	1.94	0.50
2:F1:8:ARG:NH1	1:iG:152:ALA:O	2.45	0.50
1:J1:89:TYR:CE1	1:IG:61:THR:CG2	2.94	0.50
2:P1:15:TYR:CD2	1:Q1:152:ALA:HB2	2.47	0.50
1:Q1:375:TRP:CZ3	1:Q8:367:PRO:HG3	2.47	0.50
1:R1:119:LYS:HD2	1:CJ:36:GLY:CA	2.42	0.50
1:R1:230:THR:HG21	1:Q6:165:VAL:HG11	1.94	0.50
1:X1:259:PHE:CE1	1:J6:259:PHE:CD1	2.98	0.50
1:X1:319:TYR:HE1	1:J6:95:VAL:HG21	1.76	0.50
1:X1:360:LEU:HD23	2:P6:22:LYS:HG2	1.88	0.50
1:h1:28:ASP:N	1:h1:28:ASP:OD1	2.43	0.50
1:h1:259:PHE:C	1:h1:260:GLN:HG2	2.37	0.50
4:B2:30:LEU:CB	5:EA:64:TRP:CD1	2.95	0.50
4:B2:93:ALA:HB2	5:F9:42:SER:O	2.11	0.50
5:E2:38:TYR:HB2	5:D9:45:TYR:HE2	1.76	0.50
1:C3:139:ARG:HD3	1:QG:81:PHE:O	2.11	0.50
1:C3:165:VAL:HG11	1:h7:230:THR:HG21	1.94	0.50
1:C3:319:TYR:HE1	1:h7:95:VAL:HG21	1.76	0.50
1:A3:241:LEU:HD12	1:A3:271:ILE:HD11	1.93	0.50
1:A3:357:LYS:HG2	2:F3:20:LEU:HD12	1.94	0.50
1:I3:367:PRO:HG3	1:QL:375:TRP:CZ3	2.47	0.50
1:J3:89:TYR:CE1	1:Q8:61:THR:CG2	2.94	0.50
1:L3:240:ILE:HG12	1:L3:344:ILE:HG12	1.92	0.50
1:Q3:49:PHE:CB	1:Z4:137:ASP:OD2	2.59	0.50
1:Q3:165:VAL:HG11	1:J8:230:THR:HG21	1.94	0.50
1:T3:92:MET:HB2	1:T3:115:ARG:HB2	1.94	0.50
1:T3:197:LEU:HD13	1:T3:340:LEU:HB3	1.94	0.50
1:D4:92:MET:HB2	1:D4:115:ARG:HB2	1.94	0.50
1:K4:152:ALA:O	2:VR:8:ARG:NH1	2.45	0.50
1:Q4:62:LEU:HD13	2:n8:52:SER:O	2.12	0.50
1:Q4:375:TRP:CZ3	1:IQ:367:PRO:HG3	2.47	0.50
1:R4:119:LYS:HD2	1:BS:37:ASP:N	2.26	0.50
1:S4:47:GLU:O	1:IQ:21:ALA:HB3	2.12	0.50
1:S4:152:ALA:O	2:XE:8:ARG:NH1	2.45	0.50
1:Z4:152:ALA:O	2:N8:8:ARG:NH1	2.45	0.50
1:f4:62:LEU:HD13	2:fG:52:SER:O	2.12	0.50
1:h4:47:GLU:O	1:gG:21:ALA:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:300:LYS:HZ1	3:AN:308:THR:HG21	1.76	0.50
4:B5:4:TYR:HB3	5:EI:44:SER:OG	2.12	0.50
5:E5:38:TYR:HB2	5:DI:45:TYR:HE2	1.76	0.50
1:B6:152:ALA:O	2:dG:8:ARG:NH1	2.45	0.50
1:D6:197:LEU:HD13	1:D6:340:LEU:HB3	1.94	0.50
2:F6:8:ARG:NH1	1:dQ:152:ALA:O	2.45	0.50
1:J6:242:THR:HG21	1:J6:246:LEU:HD12	1.94	0.50
1:b6:92:MET:HB2	1:b6:115:ARG:HB2	1.94	0.50
1:g6:20:SER:CB	1:CP:47:GLU:HB3	2.41	0.50
1:h6:241:LEU:HD12	1:h6:271:ILE:HD11	1.93	0.50
2:k6:45:ILE:CG1	2:k6:46:HIS:H	2.23	0.50
2:n6:18:SER:HB2	1:AE:358:GLY:HA2	1.92	0.50
1:B7:21:ALA:HA	1:BP:123:ASN:HD21	1.76	0.50
1:L7:92:MET:HB2	1:L7:115:ARG:HB2	1.94	0.50
1:S7:47:GLU:O	1:QR:21:ALA:HB3	2.12	0.50
1:J8:357:LYS:HG2	2:N8:20:LEU:HD12	1.94	0.50
2:P8:4:GLY:HA3	1:CR:153:LEU:HD21	1.92	0.50
2:X8:55:GLY:HA3	2:XR:2:TYR:HB2	1.94	0.50
1:a8:47:GLU:O	1:bQ:21:ALA:HB3	2.12	0.50
1:a8:259:PHE:C	1:a8:260:GLN:HG2	2.37	0.50
1:g8:25:PHE:C	1:IS:100:ASP:OD1	2.55	0.50
1:i8:259:PHE:C	1:i8:260:GLN:HG2	2.37	0.50
1:j8:92:MET:HB2	1:j8:115:ARG:HB2	1.94	0.50
2:n8:31:SER:O	2:WE:45:ILE:HG12	2.11	0.50
3:A9:287:PRO:HA	3:A9:290:PHE:HD2	1.76	0.50
5:E9:10:TYR:CZ	5:EA:66:TYR:CA	2.80	0.50
3:AA:112:ILE:CG1	2:MK:16:GLU:HG3	2.42	0.50
3:AA:208:LYS:CE	4:BH:251:TRP:CG	2.94	0.50
3:AB:113:TYR:CA	2:MD:22:LYS:N	2.71	0.50
3:AC:154:ILE:HA	3:AC:157:ILE:HG22	1.94	0.50
5:FC:29:THR:CB	5:DH:24:THR:OG1	2.60	0.50
1:KD:104:ASN:ND2	1:KD:106:GLU:OE2	2.45	0.50
1:CE:105:GLU:O	1:LP:109:LEU:HD11	2.10	0.50
1:LE:357:LYS:HG2	2:PE:20:LEU:HD12	1.94	0.50
1:TE:357:LYS:HG2	2:XE:20:LEU:HD12	1.94	0.50
1:aE:258:THR:HB	1:cE:256:ALA:HB1	1.92	0.50
5:FF:51:ARG:CD	4:BO:32:PHE:CE1	2.90	0.50
1:AG:89:TYR:CE1	1:YL:61:THR:CG2	2.94	0.50
1:AG:95:VAL:HG21	1:YL:319:TYR:HE1	1.76	0.50
1:BG:152:ALA:O	2:VG:8:ARG:NH1	2.45	0.50
1:DG:197:LEU:HD13	1:DG:340:LEU:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KG:28:ASP:N	1:KG:28:ASP:OD1	2.43	0.50
1:RG:367:PRO:O	1:TG:377:HIS:NE2	2.38	0.50
1:ZG:357:LYS:HG2	2:dG:20:LEU:HD12	1.94	0.50
1:bG:103:LYS:HB2	1:BK:369:PHE:CZ	2.47	0.50
1:bG:179:SER:HG	1:bG:341:TYR:HH	1.51	0.50
5:EI:36:ALA:O	3:AN:194:ASN:OD1	2.21	0.50
1:AJ:178:TYR:HB2	1:JS:35:PHE:CE1	2.47	0.50
1:CJ:355:TYR:HE1	1:CJ:357:LYS:HZ1	1.59	0.50
1:KJ:35:PHE:CE1	1:AP:178:TYR:HB2	2.47	0.50
1:KJ:53:TYR:CD2	1:AP:223:GLY:CA	2.91	0.50
1:LJ:129:GLN:NE2	1:LJ:159:LYS:O	2.45	0.50
1:LJ:137:ASP:OD2	1:JS:50:VAL:HG21	2.02	0.50
1:IL:167:GLU:OE2	1:IL:352:TYR:OH	2.26	0.50
1:KL:259:PHE:C	1:KL:260:GLN:HG2	2.37	0.50
1:QL:61:THR:CG2	1:RR:89:TYR:CE1	2.94	0.50
1:bL:179:SER:OG	1:bL:341:TYR:OH	2.29	0.50
3:AM:114:PHE:CZ	2:LS:9:SER:C	2.87	0.50
1:AP:60:GLU:HG2	1:KP:86:SER:CB	2.41	0.50
1:BP:110:LYS:CD	1:hR:105:GLU:OE1	2.60	0.50
1:CP:128:LYS:HA	1:CP:376:ILE:O	2.11	0.50
2:FP:30:MET:HA	2:FP:34:THR:HB	1.93	0.50
7:IP:20:ALA:N	7:IP:32:ALA:O	2.45	0.50
1:JQ:241:LEU:HD12	1:JQ:271:ILE:HD11	1.93	0.50
1:JQ:357:LYS:HG2	2:NQ:20:LEU:HD12	1.94	0.50
2:XQ:4:GLY:HA3	1:QR:153:LEU:HD21	1.92	0.50
2:XQ:15:TYR:CD2	1:QR:152:ALA:HB2	2.47	0.50
1:eQ:92:MET:HB2	1:eQ:115:ARG:HB2	1.94	0.50
1:CR:321:VAL:CG2	1:CR:327:PHE:CD2	2.92	0.50
1:JR:139:ARG:NH2	2:OR:17:ASP:OD2	2.44	0.50
1:KR:259:PHE:C	1:KR:260:GLN:HG2	2.37	0.50
1:bR:240:ILE:HG12	1:bR:344:ILE:HG12	1.92	0.50
1:hR:242:THR:HG21	1:hR:246:LEU:HD12	1.94	0.50
1:IS:240:ILE:HB	1:IS:270:VAL:HA	1.94	0.50
1:C1:152:ALA:HB2	2:P7:15:TYR:CD2	2.47	0.49
1:C1:165:VAL:HG11	1:A6:230:THR:HG21	1.94	0.49
1:A1:230:THR:HG21	1:C6:165:VAL:HG11	1.94	0.49
1:B1:152:ALA:O	2:c4:8:ARG:NH1	2.45	0.49
2:H1:4:GLY:HA3	1:f4:153:LEU:HD21	1.92	0.49
1:I1:14:VAL:HG23	1:UE:14:VAL:HG21	1.94	0.49
1:Q1:61:THR:CG2	1:R6:89:TYR:CE1	2.94	0.49
1:Q1:62:LEU:HD11	2:X6:53:PHE:O	2.03	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R1:83:GLY:N	1:CJ:139:ARG:O	2.45	0.49
1:R1:123:ASN:ND2	1:CJ:21:ALA:HB1	2.21	0.49
1:T1:30:SER:HA	1:CJ:315:ALA:CB	2.23	0.49
2:W1:52:SER:O	1:Q6:62:LEU:HD13	2.12	0.49
1:X1:81:PHE:HE2	1:IR:139:ARG:HD2	1.63	0.49
1:Y1:230:THR:HG21	1:I6:165:VAL:HG11	1.94	0.49
1:h1:152:ALA:O	2:F4:8:ARG:NH1	2.45	0.49
5:D2:128:MET:SD	5:D2:132:ASN:ND2	2.85	0.49
5:C2:266:THR:CG2	5:N9:230:SER:HA	2.40	0.49
1:C3:21:ALA:HB3	1:SG:47:GLU:O	2.12	0.49
1:C3:360:LEU:HD22	2:n7:22:LYS:HG2	1.91	0.49
2:P3:4:GLY:HA3	1:IG:153:LEU:HD21	1.92	0.49
2:P3:55:GLY:HA3	2:X6:2:TYR:HB2	1.94	0.49
1:Q3:208:LEU:HD12	1:Q3:391:ILE:HD11	1.89	0.49
2:H4:52:SER:O	1:QG:62:LEU:HD13	2.12	0.49
1:R4:230:THR:HG21	1:g8:165:VAL:HG11	1.94	0.49
1:R4:367:PRO:O	1:T4:377:HIS:NE2	2.38	0.49
1:Y4:357:LYS:HG2	2:c4:20:LEU:HD12	1.94	0.49
1:Z4:259:PHE:C	1:Z4:260:GLN:HG2	2.37	0.49
1:R6:367:PRO:O	1:T6:377:HIS:NE2	2.38	0.49
2:V6:8:ARG:NH1	1:KG:152:ALA:O	2.45	0.49
1:Y6:208:LEU:HD12	1:Y6:391:ILE:HD11	1.89	0.49
1:j6:103:LYS:HB2	1:BJ:369:PHE:CZ	2.47	0.49
1:C7:360:LEU:HD23	2:mR:22:LYS:HG2	1.88	0.49
1:A7:230:THR:HG21	1:gR:165:VAL:HG11	1.94	0.49
1:D7:103:LYS:HB2	1:BP:369:PHE:CZ	2.47	0.49
1:D7:351:LYS:NZ	1:DE:60:GLU:OE2	2.43	0.49
1:J7:259:PHE:CD1	1:bQ:259:PHE:CE1	2.98	0.49
2:X7:15:TYR:CD2	1:Y7:152:ALA:HB2	2.47	0.49
2:f7:22:LYS:HG2	1:IR:360:LEU:HD23	1.89	0.49
1:h7:357:LYS:HG2	2:l7:20:LEU:HD12	1.94	0.49
1:i7:14:VAL:HG21	1:C8:14:VAL:HG23	1.94	0.49
2:l7:8:ARG:NH1	1:SG:152:ALA:O	2.45	0.49
1:C8:208:LEU:HD12	1:C8:391:ILE:HD11	1.89	0.49
2:H8:15:TYR:CD2	1:QL:152:ALA:HB2	2.47	0.49
1:R8:357:LYS:HG2	2:V8:20:LEU:HD12	1.94	0.49
1:S8:47:GLU:O	1:IG:21:ALA:HB3	2.12	0.49
3:A9:208:LYS:CE	4:BC:251:TRP:CG	2.94	0.49
5:DB:24:THR:OG1	5:FF:29:THR:CB	2.60	0.49
5:EB:44:SER:OG	4:BF:4:TYR:HB3	2.12	0.49
5:EB:140:ASP:N	5:CB:139:LYS:HB3	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BC:30:LEU:CB	5:EN:64:TRP:CD1	2.95	0.49
5:EC:140:ASP:N	5:CC:139:LYS:HB3	2.25	0.49
1:AD:100:ASP:OD2	1:YG:28:ASP:CA	2.60	0.49
1:KD:182:GLN:HB3	1:KD:220:ARG:HH12	1.76	0.49
1:DE:123:ASN:ND2	1:BP:21:ALA:HB2	2.27	0.49
2:EE:44:GLN:OE1	2:EE:44:GLN:HA	2.02	0.49
1:BE:105:GLU:OE1	1:BJ:110:LYS:CD	2.60	0.49
1:BE:119:LYS:CG	1:CP:36:GLY:HA3	2.41	0.49
1:FE:92:MET:HB2	1:FE:115:ARG:HB2	1.94	0.49
1:LE:241:LEU:HD12	1:LE:271:ILE:HD11	1.93	0.49
1:ME:14:VAL:O	1:QQ:44:THR:HA	2.11	0.49
1:UE:259:PHE:C	1:UE:260:GLN:HG2	2.37	0.49
1:VE:68:LEU:HB2	1:VE:161:SER:HB3	1.94	0.49
1:VE:325:LYS:NZ	1:VE:325:LYS:CB	2.73	0.49
1:aE:360:LEU:HD22	2:HR:22:LYS:HG2	1.91	0.49
1:bE:357:LYS:HG2	2:fE:20:LEU:HD12	1.94	0.49
5:DF:24:THR:OG1	5:FM:29:THR:CB	2.60	0.49
1:QG:167:GLU:OE2	1:QG:352:TYR:OH	2.26	0.49
1:SG:259:PHE:C	1:SG:260:GLN:HG2	2.37	0.49
1:aG:259:PHE:C	1:aG:260:GLN:HG2	2.37	0.49
1:bG:68:LEU:HB2	1:bG:161:SER:HB3	1.94	0.49
3:AH:154:ILE:HA	3:AH:157:ILE:HG22	1.94	0.49
5:CH:266:THR:OG1	5:NN:228:ARG:HG2	2.12	0.49
3:AI:194:ASN:OD1	5:EM:36:ALA:O	2.22	0.49
3:AI:208:LYS:O	4:BM:250:ILE:CG1	2.57	0.49
3:AI:208:LYS:CE	4:BM:251:TRP:CG	2.94	0.49
5:DI:128:MET:SD	5:DI:132:ASN:ND2	2.85	0.49
1:DK:239:VAL:HG11	2:GK:48:LEU:HG	1.94	0.49
7:IK:20:ALA:N	7:IK:32:ALA:O	2.45	0.49
1:BL:259:PHE:C	1:BL:260:GLN:HG2	2.37	0.49
1:DL:92:MET:HB2	1:DL:115:ARG:HB2	1.94	0.49
1:DL:351:LYS:NZ	1:LL:60:GLU:OE2	2.43	0.49
1:IL:61:THR:CG2	1:ZR:89:TYR:CE1	2.94	0.49
1:JL:241:LEU:HD12	1:JL:271:ILE:HD11	1.93	0.49
1:RL:230:THR:HG21	1:QR:165:VAL:HG11	1.94	0.49
1:SL:129:GLN:NE2	1:SL:159:LYS:O	2.41	0.49
5:FM:42:SER:O	4:BO:93:ALA:HB2	2.11	0.49
1:DP:167:GLU:OE1	1:DP:354:ARG:NH2	2.45	0.49
7:OP:20:ALA:N	7:OP:32:ALA:O	2.45	0.49
1:LQ:351:LYS:NZ	1:bR:60:GLU:OE2	2.43	0.49
1:YQ:197:LEU:HD13	1:YQ:340:LEU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RR:357:LYS:HG2	2:VR:20:LEU:HD12	1.94	0.49
2:GS:33:ASP:O	2:GS:36:LYS:NZ	2.39	0.49
1:KS:129:GLN:NE2	1:KS:159:LYS:O	2.45	0.49
1:C1:319:TYR:HE1	1:A6:95:VAL:HG21	1.76	0.49
1:A1:95:VAL:HG21	1:C6:319:TYR:HE1	1.76	0.49
1:A1:242:THR:HG21	1:A1:246:LEU:HD12	1.94	0.49
2:H1:55:GLY:HA3	2:HL:2:TYR:HB2	1.94	0.49
2:P1:9:SER:HB2	1:Q1:363:PRO:HG2	1.95	0.49
1:Q1:21:ALA:HB3	1:KG:47:GLU:O	2.12	0.49
1:R1:105:GLU:OE1	1:AS:110:LYS:CD	2.60	0.49
1:T1:49:PHE:N	1:BJ:137:ASP:OD2	2.45	0.49
1:T1:54:LEU:HD11	1:CJ:116:MET:SD	2.52	0.49
2:W1:22:LYS:HG2	1:Q6:360:LEU:HD23	1.89	0.49
1:X1:81:PHE:O	1:IR:139:ARG:HD3	2.11	0.49
1:f1:61:THR:CG2	1:AQ:89:TYR:CE1	2.94	0.49
1:h1:19:LYS:NZ	1:h1:37:ASP:OD1	2.37	0.49
4:B2:33:TYR:HE1	5:EA:57:GLU:HG2	1.76	0.49
4:B2:250:ILE:CG1	3:AF:208:LYS:O	2.57	0.49
5:E2:64:TRP:CD1	4:BF:30:LEU:CB	2.94	0.49
5:O2:178:ILE:HD13	5:O2:185:MET:HG2	1.95	0.49
1:C3:102:SER:HB3	1:DQ:26:ASN:HD22	1.78	0.49
1:C3:279:VAL:HG12	1:C3:318:THR:HA	1.94	0.49
2:H3:15:TYR:CD2	1:C8:152:ALA:HB2	2.47	0.49
1:I3:152:ALA:HB2	2:XR:15:TYR:CD2	2.47	0.49
1:K3:47:GLU:O	1:I4:21:ALA:HB3	2.12	0.49
1:L3:92:MET:HB2	1:L3:115:ARG:HB2	1.94	0.49
1:Q3:152:ALA:HB2	2:f8:15:TYR:CD2	2.47	0.49
1:S3:152:ALA:O	2:fE:8:ARG:NH1	2.45	0.49
1:Y3:81:PHE:CE2	1:BK:139:ARG:CG	2.95	0.49
1:b3:81:PHE:CE2	1:BD:139:ARG:CG	2.95	0.49
1:C4:21:ALA:HB3	1:BG:47:GLU:O	2.12	0.49
1:C4:165:VAL:HG11	1:RG:230:THR:HG21	1.94	0.49
1:I4:61:THR:CG2	1:A8:89:TYR:CE1	2.94	0.49
1:I4:153:LEU:HD21	2:X8:4:GLY:HA3	1.92	0.49
2:W4:52:SER:O	1:g8:62:LEU:HD13	2.12	0.49
1:X4:363:PRO:HG2	2:hE:9:SER:HB2	1.95	0.49
1:f4:360:LEU:HD23	2:fG:22:LYS:HG2	1.88	0.49
1:i4:47:GLU:HG2	1:BD:22:LEU:HD22	1.94	0.49
5:E5:64:TRP:CD1	4:BH:30:LEU:CB	2.94	0.49
1:A6:242:THR:HG21	1:A6:246:LEU:HD12	1.94	0.49
2:H6:55:GLY:HA3	2:P7:2:TYR:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I6:21:ALA:HB3	1:aR:47:GLU:O	2.12	0.49
1:R6:357:LYS:HG2	2:V6:20:LEU:HD12	1.94	0.49
2:X6:9:SER:HB2	1:Q8:363:PRO:HG2	1.95	0.49
2:c6:45:ILE:CG1	2:c6:46:HIS:H	2.23	0.49
1:g6:279:VAL:HG12	1:g6:318:THR:HA	1.94	0.49
1:j6:92:MET:HB2	1:j6:115:ARG:HB2	1.94	0.49
1:C7:29:TYR:CE1	1:LK:302:ASP:OD2	2.64	0.49
1:C7:259:PHE:CE1	1:hR:259:PHE:CD1	2.98	0.49
1:Y7:208:LEU:HD12	1:Y7:391:ILE:HD11	1.89	0.49
1:j7:68:LEU:HB2	1:j7:161:SER:HB3	1.94	0.49
1:I8:44:THR:HA	1:KR:14:VAL:O	2.11	0.49
2:P8:9:SER:HB2	1:CR:363:PRO:HG2	1.95	0.49
1:T8:240:ILE:HG12	1:T8:344:ILE:HG12	1.92	0.49
1:Y8:81:PHE:O	1:bQ:139:ARG:HD3	2.11	0.49
1:Y8:208:LEU:HD12	1:Y8:391:ILE:HD11	1.89	0.49
1:j8:103:LYS:HB2	1:BD:369:PHE:CZ	2.47	0.49
2:l8:8:ARG:NH1	1:KL:152:ALA:O	2.45	0.49
4:B9:32:PHE:HD2	5:FC:55:LEU:HD11	1.64	0.49
3:AA:24:ARG:HD3	3:AA:169:LEU:HB2	1.95	0.49
5:CB:178:ILE:HD13	5:CB:185:MET:HG2	1.95	0.49
5:OB:178:ILE:HD13	5:OB:185:MET:HG2	1.95	0.49
1:AD:355:TYR:HB3	1:AD:379:TYR:HB3	1.92	0.49
1:DD:167:GLU:OE1	1:DD:354:ARG:NH2	2.45	0.49
2:GE:2:TYR:CD1	1:BP:150:ASN:ND2	2.81	0.49
1:BE:119:LYS:HD2	1:CP:37:ASP:N	2.26	0.49
1:KE:279:VAL:HG12	1:KE:318:THR:HA	1.94	0.49
1:KE:363:PRO:HG2	2:PR:9:SER:HB2	1.95	0.49
1:TE:95:VAL:HG21	1:IQ:319:TYR:HE1	1.76	0.49
1:aE:314:GLY:HA3	1:CG:31:LYS:NZ	2.26	0.49
3:AF:287:PRO:HA	3:AF:290:PHE:HD2	1.76	0.49
5:NF:178:ILE:HD13	5:NF:185:MET:HG2	1.94	0.49
1:RG:357:LYS:HG2	2:VG:20:LEU:HD12	1.94	0.49
1:gG:259:PHE:CE1	1:AL:259:PHE:CD1	2.98	0.49
1:gG:319:TYR:HE1	1:AL:95:VAL:HG21	1.76	0.49
2:nG:9:SER:HB2	1:YR:363:PRO:HG2	1.95	0.49
3:AI:112:ILE:CG1	2:MJ:6:ASN:N	2.74	0.49
3:AI:163:GLU:OE2	3:AI:241:LYS:NZ	2.43	0.49
1:AJ:104:ASN:ND2	1:AJ:106:GLU:OE2	2.45	0.49
1:BJ:99:MET:C	1:LP:25:PHE:CA	2.51	0.49
1:KJ:148:ALA:CB	2:MP:15:TYR:CD1	2.94	0.49
1:KJ:369:PHE:CE2	1:KP:107:LEU:CB	2.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NJ:12:GLY:C	2:NJ:14:SER:H	2.20	0.49
1:AK:62:LEU:CD2	1:KK:88:GLU:HG2	2.42	0.49
1:AK:104:ASN:ND2	1:AK:106:GLU:OE2	2.45	0.49
1:AK:355:TYR:HB3	1:AK:379:TYR:HB3	1.92	0.49
1:BK:137:ASP:OD2	1:jR:49:PHE:N	2.45	0.49
1:LK:22:LEU:CD2	1:KP:47:GLU:HB2	2.29	0.49
1:LK:33:TRP:CE2	1:DP:174:MET:N	2.81	0.49
1:LK:108:MET:HE1	1:jR:367:PRO:CD	2.42	0.49
1:CL:81:PHE:O	1:YR:139:ARG:HD3	2.11	0.49
1:IL:62:LEU:HD13	2:fR:52:SER:O	2.12	0.49
1:KL:28:ASP:N	1:KL:28:ASP:OD1	2.43	0.49
2:PL:22:LYS:HG2	1:YR:360:LEU:HD22	1.91	0.49
2:UL:45:ILE:CG1	2:UL:46:HIS:H	2.23	0.49
1:KP:296:PHE:HE2	1:KP:321:VAL:HG23	1.77	0.49
1:LP:129:GLN:NE2	1:LP:159:LYS:O	2.45	0.49
1:CQ:363:PRO:HG2	2:iQ:9:SER:HB2	1.95	0.49
1:DQ:92:MET:HB2	1:DQ:115:ARG:HB2	1.94	0.49
1:DQ:240:ILE:HG12	1:DQ:344:ILE:HG12	1.92	0.49
1:QQ:279:VAL:HG12	1:QQ:318:THR:HA	1.95	0.49
1:TQ:92:MET:HB2	1:TQ:115:ARG:HB2	1.94	0.49
2:UQ:45:ILE:CG1	2:UQ:46:HIS:H	2.23	0.49
1:LR:68:LEU:HB2	1:LR:161:SER:HB3	1.94	0.49
1:RR:367:PRO:O	1:TR:377:HIS:NE2	2.38	0.49
1:SR:28:ASP:N	1:SR:28:ASP:OD1	2.42	0.49
1:IS:104:ASN:ND2	1:IS:106:GLU:OE2	2.45	0.49
1:KS:240:ILE:HD11	1:KS:270:VAL:HG13	1.93	0.49
1:C1:21:ALA:HB3	1:dQ:47:GLU:O	2.12	0.49
1:A1:241:LEU:HD12	1:A1:271:ILE:HD11	1.93	0.49
1:B1:47:GLU:O	1:Y8:21:ALA:HB3	2.12	0.49
1:I1:62:LEU:HD13	2:PG:52:SER:O	2.12	0.49
1:I1:152:ALA:HB2	2:PQ:15:TYR:CD2	2.47	0.49
1:J1:242:THR:HG21	1:J1:246:LEU:HD12	1.94	0.49
1:Q1:319:TYR:HE1	1:R6:95:VAL:HG21	1.76	0.49
1:R1:362:PRO:HD2	1:CJ:365:HIS:NE2	2.27	0.49
1:S1:129:GLN:NE2	1:S1:159:LYS:O	2.41	0.49
1:T1:19:LYS:HB3	1:BJ:45:MET:CG	2.40	0.49
1:X1:81:PHE:HD2	1:IR:139:ARG:HD3	1.64	0.49
1:Y1:367:PRO:O	1:a1:377:HIS:NE2	2.38	0.49
1:Z1:47:GLU:O	1:IR:21:ALA:HB3	2.12	0.49
1:a1:325:LYS:NZ	1:a1:325:LYS:CB	2.73	0.49
1:a1:351:LYS:NZ	1:b7:60:GLU:OE2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f1:62:LEU:HD13	2:HQ:52:SER:O	2.12	0.49
1:g1:241:LEU:HD12	1:g1:271:ILE:HD11	1.93	0.49
4:B2:123:GLN:HB3	4:B2:214:ALA:HB3	1.95	0.49
1:C3:139:ARG:HD2	1:QG:81:PHE:HD2	1.25	0.49
1:I3:363:PRO:HG2	2:XR:9:SER:HB2	1.95	0.49
1:J3:357:LYS:HG2	2:N3:20:LEU:HD12	1.94	0.49
2:M3:45:ILE:HG13	2:M3:46:HIS:H	1.66	0.49
2:M3:45:ILE:CG1	2:M3:46:HIS:H	2.23	0.49
1:Q3:279:VAL:HG12	1:Q3:318:THR:HA	1.95	0.49
1:R3:367:PRO:O	1:T3:377:HIS:NE2	2.38	0.49
1:S3:259:PHE:C	1:S3:260:GLN:HG2	2.37	0.49
1:T3:143:GLN:HB3	1:JR:57:LYS:HB3	1.92	0.49
1:Y3:68:LEU:HB2	1:Y3:161:SER:HB3	1.94	0.49
1:Y3:109:LEU:O	1:LK:105:GLU:CB	2.59	0.49
1:Y3:222:SER:HA	1:BK:38:LYS:HB3	1.93	0.49
2:d3:11:MET:HE3	1:BD:133:LEU:O	2.11	0.49
1:C4:62:LEU:HD13	2:XG:52:SER:O	2.12	0.49
1:K4:47:GLU:O	1:QL:21:ALA:HB3	2.12	0.49
1:Q4:259:PHE:HE1	1:h8:259:PHE:HE1	1.48	0.49
1:R4:357:LYS:HG2	2:U4:20:LEU:HD12	1.94	0.49
1:a4:68:LEU:HB2	1:a4:161:SER:HB3	1.94	0.49
2:e4:9:SER:HB2	1:bQ:363:PRO:HG2	1.95	0.49
1:f4:102:SER:HB3	1:DL:26:ASN:HD22	1.78	0.49
1:g4:83:GLY:N	1:CD:139:ARG:O	2.45	0.49
1:h4:259:PHE:C	1:h4:260:GLN:HG2	2.37	0.49
2:l4:1:MET:SD	2:FK:54:THR:OG1	2.67	0.49
5:E5:44:SER:OG	4:BN:4:TYR:HB3	2.12	0.49
5:F5:29:THR:CB	5:DI:24:THR:OG1	2.60	0.49
5:F5:38:TYR:OH	4:BN:10:ASP:OD2	2.25	0.49
1:C6:21:ALA:HB3	1:iG:47:GLU:O	2.12	0.49
1:A6:241:LEU:HD12	1:A6:271:ILE:HD11	1.93	0.49
2:H6:4:GLY:HA3	1:Y8:153:LEU:HD21	1.92	0.49
1:K6:47:GLU:CG	1:CL:22:LEU:CB	2.91	0.49
1:Q6:25:PHE:C	1:AJ:100:ASP:OD1	2.55	0.49
1:Q6:46:PHE:HZ	1:CJ:39:TRP:CH2	2.29	0.49
1:S6:28:ASP:N	1:S6:28:ASP:OD1	2.42	0.49
1:T6:92:MET:HB2	1:T6:115:ARG:HB2	1.94	0.49
2:X6:15:TYR:CD2	1:Q8:152:ALA:HB2	2.47	0.49
1:i6:46:PHE:HZ	1:DJ:39:TRP:CZ3	2.30	0.49
1:C7:53:TYR:CD2	1:LK:223:GLY:HA3	2.45	0.49
1:C7:208:LEU:HD12	1:C7:391:ILE:HD11	1.89	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:316:VAL:HG23	1:DP:31:LYS:HD3	1.94	0.49
1:I7:21:ALA:HB3	1:iR:47:GLU:O	2.12	0.49
1:J7:95:VAL:HG21	1:bQ:319:TYR:HE1	1.76	0.49
1:K7:137:ASP:OD2	1:CQ:49:PHE:CB	2.59	0.49
1:L7:26:ASN:HD22	1:Y8:102:SER:HB3	1.78	0.49
1:Q7:102:SER:HB3	1:TL:26:ASN:HD22	1.78	0.49
1:Y7:139:ARG:HD3	1:QQ:81:PHE:HD2	1.64	0.49
1:Z7:230:THR:HG21	1:IR:165:VAL:HG11	1.94	0.49
1:Z7:357:LYS:HG2	2:d7:20:LEU:HD12	1.94	0.49
1:a7:137:ASP:OD2	1:KE:49:PHE:CB	2.59	0.49
1:g7:21:ALA:HB3	1:CE:47:GLU:O	2.12	0.49
1:g7:81:PHE:O	1:C8:139:ARG:HD3	2.11	0.49
1:i7:259:PHE:C	1:i7:260:GLN:HG2	2.37	0.49
1:A8:242:THR:HG21	1:A8:246:LEU:HD12	1.94	0.49
1:B8:47:GLU:O	1:AE:21:ALA:HB3	2.12	0.49
2:H8:9:SER:HB2	1:QL:363:PRO:HG2	1.95	0.49
1:T8:92:MET:HB2	1:T8:115:ARG:HB2	1.94	0.49
5:F9:51:ARG:CD	4:BB:32:PHE:CE1	2.90	0.49
5:N9:388:LYS:HG3	5:N9:388:LYS:O	2.13	0.49
3:AA:154:ILE:HA	3:AA:157:ILE:HG22	1.94	0.49
5:EA:38:TYR:HB2	5:DC:45:TYR:HE2	1.76	0.49
5:OA:178:ILE:HD13	5:OA:185:MET:HG2	1.95	0.49
4:BB:90:THR:HB	4:BB:93:ALA:HB3	1.94	0.49
3:AC:209:MET:CG	4:BN:250:ILE:CD1	2.84	0.49
5:CC:266:THR:OG1	5:NH:228:ARG:HG2	2.12	0.49
1:AD:104:ASN:ND2	1:AD:106:GLU:OE2	2.45	0.49
1:AD:240:ILE:HB	1:AD:270:VAL:HA	1.94	0.49
1:KD:144:THR:N	1:IS:82:ILE:CD1	2.74	0.49
1:KD:145:LEU:CG	2:LS:15:TYR:O	2.59	0.49
1:BE:82:ILE:HG12	1:CP:144:THR:O	2.11	0.49
1:BE:85:TYR:HD1	1:BE:122:GLY:HA2	1.76	0.49
1:BE:362:PRO:HD2	1:CP:365:HIS:NE2	2.27	0.49
1:ME:47:GLU:CG	1:QQ:22:LEU:CB	2.91	0.49
1:NE:92:MET:HB2	1:NE:115:ARG:HB2	1.94	0.49
1:aE:62:LEU:HD13	2:HR:52:SER:O	2.12	0.49
1:cE:47:GLU:O	1:CG:21:ALA:HB3	2.12	0.49
1:cE:152:ALA:O	2:dL:8:ARG:NH1	2.45	0.49
5:EF:13:ASP:OD1	5:EF:13:ASP:N	2.45	0.49
5:EF:140:ASP:N	5:CF:139:LYS:HB3	2.25	0.49
1:DG:68:LEU:HB2	1:DG:161:SER:HB3	1.94	0.49
2:fG:9:SER:HB2	1:gG:363:PRO:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hG:367:PRO:O	1:jG:377:HIS:NE2	2.38	0.49
3:AI:308:THR:HG21	3:AO:300:LYS:HZ1	1.77	0.49
5:FI:29:THR:CB	5:DO:24:THR:OG1	2.60	0.49
1:AJ:244:ASP:N	1:AJ:273:PHE:O	2.45	0.49
1:BJ:150:ASN:ND2	2:iL:2:TYR:CD1	2.81	0.49
1:DJ:16:LYS:HB2	1:DJ:19:LYS:HB2	1.94	0.49
1:DJ:239:VAL:HG11	2:GJ:48:LEU:HG	1.94	0.49
1:LJ:45:MET:CE	1:JS:15:ALA:C	2.84	0.49
7:OJ:20:ALA:N	7:OJ:32:ALA:O	2.45	0.49
1:AK:279:VAL:HG23	1:AK:334:ILE:HB	1.95	0.49
7:OK:20:ALA:N	7:OK:32:ALA:O	2.45	0.49
1:BL:137:ASP:OD2	1:YR:49:PHE:CB	2.59	0.49
1:BL:152:ALA:O	2:NL:8:ARG:NH1	2.45	0.49
1:KL:19:LYS:NZ	1:KL:37:ASP:OD1	2.37	0.49
1:TL:92:MET:HB2	1:TL:115:ARG:HB2	1.94	0.49
2:cL:45:ILE:CG1	2:cL:46:HIS:H	2.23	0.49
5:OM:178:ILE:HD13	5:OM:185:MET:HG2	1.95	0.49
6:LN:96:SER:C	2:MP:3:GLU:OE1	2.55	0.49
3:AO:151:ASN:HB3	1:IS:58:ILE:HD12	1.90	0.49
1:AP:104:ASN:ND2	1:AP:106:GLU:OE2	2.45	0.49
1:DP:133:LEU:HD12	2:mR:15:TYR:CZ	2.45	0.49
1:DP:173:ALA:HB2	1:DP:279:VAL:HG11	1.94	0.49
1:LP:197:LEU:HA	1:LP:200:LYS:HB2	1.93	0.49
1:IQ:102:SER:HB3	1:bR:26:ASN:HD22	1.78	0.49
1:IQ:279:VAL:HG12	1:IQ:318:THR:HA	1.94	0.49
1:YQ:68:LEU:HB2	1:YQ:161:SER:HB3	1.94	0.49
1:cQ:367:PRO:O	1:eQ:377:HIS:NE2	2.38	0.49
1:bR:92:MET:HB2	1:bR:115:ARG:HB2	1.94	0.49
1:IS:60:GLU:HG2	1:JS:86:SER:CB	2.41	0.49
1:JS:182:GLN:HB3	1:JS:220:ARG:HH12	1.76	0.49
7:SS:20:ALA:N	7:SS:32:ALA:O	2.45	0.49
1:B1:259:PHE:C	1:B1:260:GLN:HG2	2.37	0.49
1:I1:22:LEU:CB	1:UE:47:GLU:CG	2.91	0.49
1:I1:139:ARG:HD3	1:SE:81:PHE:O	2.11	0.49
1:I1:321:VAL:CG2	1:I1:327:PHE:CD2	2.92	0.49
1:K1:47:GLU:O	1:Y6:21:ALA:HB3	2.12	0.49
2:N1:1:MET:H2	1:S8:150:ASN:HD21	1.58	0.49
2:N1:1:MET:H3	1:S8:150:ASN:HD21	1.60	0.49
1:Q1:165:VAL:HG11	1:R6:230:THR:HG21	1.94	0.49
1:T1:92:MET:HB2	1:T1:115:ARG:HB2	1.94	0.49
1:h1:150:ASN:HD21	2:F4:1:MET:H3	1.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k1:8:ARG:NH1	1:K7:152:ALA:O	2.45	0.49
2:m1:22:LYS:HG2	1:CQ:360:LEU:HD22	1.91	0.49
2:m1:52:SER:O	1:CQ:62:LEU:HD13	2.12	0.49
3:A2:53:ILE:HD11	3:A2:70:VAL:HG21	1.95	0.49
5:E2:17:PHE:HB2	5:E9:62:ARG:HH22	1.78	0.49
1:K3:150:ASN:HD21	2:F8:1:MET:H3	1.60	0.49
1:Q3:102:SER:HB3	1:dE:26:ASN:HD22	1.78	0.49
1:Q3:259:PHE:CE1	1:J8:259:PHE:CD1	2.98	0.49
1:Y3:197:LEU:HD13	1:Y3:340:LEU:HB3	1.94	0.49
2:a3:2:TYR:CD1	1:BK:150:ASN:ND2	2.80	0.49
1:b3:68:LEU:HB2	1:b3:161:SER:HB3	1.94	0.49
1:C4:102:SER:HB3	1:DR:26:ASN:HD22	1.78	0.49
1:J4:89:TYR:CE1	1:C8:61:THR:CG2	2.94	0.49
1:R4:241:LEU:HD12	1:R4:271:ILE:HD11	1.93	0.49
1:S4:259:PHE:C	1:S4:260:GLN:HG2	2.37	0.49
1:a4:92:MET:HB2	1:a4:115:ARG:HB2	1.94	0.49
2:b4:45:ILE:HG13	2:b4:46:HIS:H	1.66	0.49
1:f4:21:ALA:HB3	1:B6:47:GLU:O	2.12	0.49
1:f4:81:PHE:O	1:gG:139:ARG:HD3	2.11	0.49
1:f4:259:PHE:CE1	1:ZG:259:PHE:CD1	2.98	0.49
1:i4:92:MET:HB2	1:i4:115:ARG:HB2	1.94	0.49
1:B6:259:PHE:C	1:B6:260:GLN:HG2	2.37	0.49
1:J6:241:LEU:HD12	1:J6:271:ILE:HD11	1.93	0.49
1:K6:47:GLU:O	1:CL:21:ALA:HB3	2.12	0.49
2:P6:15:TYR:CD2	1:IR:152:ALA:HB2	2.47	0.49
1:Q6:316:VAL:HG23	1:CS:31:LYS:HD3	1.94	0.49
1:R6:241:LEU:HD12	1:R6:271:ILE:HD11	1.93	0.49
1:T6:103:LYS:HB2	1:AS:369:PHE:CZ	2.47	0.49
1:a6:47:GLU:O	1:SE:21:ALA:HB3	2.12	0.49
1:g6:14:VAL:CG1	1:CP:45:MET:HE3	2.33	0.49
1:C7:27:HIS:O	1:AK:100:ASP:OD1	2.29	0.49
1:B7:143:GLN:O	1:BP:82:ILE:HD13	2.11	0.49
1:I7:22:LEU:CB	1:iR:47:GLU:CG	2.91	0.49
1:I7:81:PHE:O	1:CQ:139:ARG:HD3	2.11	0.49
1:Q7:375:TRP:CZ3	1:QR:367:PRO:HG3	2.47	0.49
1:Z7:242:THR:HG21	1:Z7:246:LEU:HD12	1.94	0.49
1:b7:325:LYS:NZ	1:b7:325:LYS:CB	2.73	0.49
2:f7:52:SER:O	1:IR:62:LEU:HD13	2.12	0.49
1:i7:47:GLU:CG	1:C8:22:LEU:CB	2.91	0.49
1:j7:325:LYS:NZ	1:j7:325:LYS:CB	2.73	0.49
1:I8:279:VAL:HG12	1:I8:318:THR:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L8:68:LEU:HB2	1:L8:161:SER:HB3	1.94	0.49
1:L8:197:LEU:HD13	1:L8:340:LEU:HB3	1.94	0.49
2:P8:15:TYR:CD2	1:CR:152:ALA:HB2	2.47	0.49
1:R8:242:THR:HG21	1:R8:246:LEU:HD12	1.94	0.49
2:U8:45:ILE:CG1	2:U8:46:HIS:H	2.23	0.49
1:b8:92:MET:HB2	1:b8:115:ARG:HB2	1.94	0.49
2:f8:55:GLY:HA3	2:hE:2:TYR:HB2	1.94	0.49
1:g8:32:SER:HB2	1:KS:174:MET:HE2	1.95	0.49
1:i8:129:GLN:NE2	1:i8:159:LYS:O	2.41	0.49
3:A9:201:TYR:HE2	5:DH:31:PHE:HZ	1.59	0.49
4:BA:90:THR:HB	4:BA:93:ALA:HB3	1.94	0.49
5:CA:265:LEU:HD23	5:NC:233:GLU:H	1.72	0.49
5:CA:266:THR:OG1	5:NC:228:ARG:HG2	2.12	0.49
3:AB:24:ARG:HD3	3:AB:169:LEU:HB2	1.95	0.49
4:BB:250:ILE:CG1	3:AM:208:LYS:O	2.57	0.49
4:BC:33:TYR:HE1	5:EN:57:GLU:HG2	1.76	0.49
4:BC:123:GLN:HB3	4:BC:214:ALA:HB3	1.95	0.49
4:BC:195:LYS:H	4:BH:144:GLN:NE2	2.09	0.49
5:DC:128:MET:SD	5:DC:132:ASN:ND2	2.85	0.49
1:AD:44:THR:N	5:DF:25:ARG:HE	2.09	0.49
1:DD:174:MET:N	1:KS:33:TRP:CE2	2.81	0.49
1:KD:61:THR:HG21	1:KS:57:LYS:NZ	2.24	0.49
1:KD:139:ARG:NH1	1:IS:355:TYR:CZ	2.75	0.49
1:LD:25:PHE:C	1:BK:99:MET:O	2.47	0.49
1:LD:33:TRP:CE2	1:DK:174:MET:N	2.81	0.49
2:MD:15:TYR:CD1	1:KK:148:ALA:CB	2.94	0.49
2:ZE:22:LYS:HG2	1:IQ:360:LEU:HD22	1.91	0.49
1:aE:102:SER:HB3	1:bL:26:ASN:HD22	1.78	0.49
1:aE:363:PRO:HG2	2:XG:9:SER:HB2	1.95	0.49
1:dE:92:MET:HB2	1:dE:115:ARG:HB2	1.94	0.49
1:CG:62:LEU:HD13	2:fL:52:SER:O	2.12	0.49
1:JG:357:LYS:HG2	2:NG:20:LEU:HD12	1.94	0.49
1:RG:241:LEU:HD12	1:RG:271:ILE:HD11	1.93	0.49
1:aG:21:ALA:HA	1:BK:123:ASN:HD21	1.76	0.49
1:hG:95:VAL:HG21	1:CL:319:TYR:HE1	1.76	0.49
1:jG:197:LEU:HD13	1:jG:340:LEU:HB3	1.94	0.49
3:AH:287:PRO:HA	3:AH:290:PHE:HD2	1.76	0.49
3:AI:24:ARG:HD3	3:AI:169:LEU:HB2	1.95	0.49
1:AJ:355:TYR:CZ	1:JS:139:ARG:NH1	2.75	0.49
1:BJ:133:LEU:O	2:iL:11:MET:HE3	2.12	0.49
2:EJ:50:LYS:NZ	2:EJ:51:GLN:O	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FJ:16:GLU:HB3	1:LP:149:THR:HG23	1.93	0.49
1:BK:144:THR:HG23	1:BK:147:ASP:H	1.77	0.49
1:KK:285:GLU:HG3	1:KK:313:VAL:HG13	1.94	0.49
1:KK:296:PHE:HE2	1:KK:321:VAL:HG23	1.77	0.49
2:MK:31:SER:HA	2:MK:35:ASN:HB3	1.93	0.49
1:IL:21:ALA:HB3	1:KQ:47:GLU:O	2.12	0.49
2:PL:52:SER:O	1:YR:62:LEU:HD13	2.12	0.49
1:QL:279:VAL:HG12	1:QL:318:THR:HA	1.95	0.49
1:RL:259:PHE:HE1	1:QR:259:PHE:HE1	1.48	0.49
2:XL:22:LYS:HG2	1:QR:360:LEU:HD23	1.89	0.49
3:AM:53:ILE:HD11	3:AM:70:VAL:HG21	1.95	0.49
5:ON:178:ILE:HD13	5:ON:185:MET:HG2	1.94	0.49
3:AO:64:GLN:CB	1:IS:150:ASN:N	2.75	0.49
1:AQ:242:THR:HG21	1:AQ:246:LEU:HD12	1.94	0.49
1:BQ:47:GLU:O	1:gR:21:ALA:HB3	2.12	0.49
2:aQ:2:TYR:CD1	1:AS:150:ASN:ND2	2.80	0.49
1:TR:92:MET:HB2	1:TR:115:ARG:HB2	1.94	0.49
1:IS:279:VAL:HG12	1:IS:318:THR:HA	1.95	0.49
1:KS:240:ILE:HG13	1:KS:270:VAL:HA	1.94	0.49
1:C1:279:VAL:HG12	1:C1:318:THR:HA	1.95	0.49
1:C1:363:PRO:HG2	2:P7:9:SER:HB2	1.95	0.49
1:D1:26:ASN:HD22	1:gG:102:SER:HB3	1.78	0.49
2:H1:52:SER:O	1:C6:62:LEU:HD13	2.12	0.49
1:Q1:279:VAL:HG12	1:Q1:318:THR:HA	1.95	0.49
1:Q1:367:PRO:HG3	1:IG:375:TRP:CZ3	2.47	0.49
1:a1:26:ASN:HD22	1:YR:102:SER:HB3	1.78	0.49
1:f1:45:MET:CE	1:B3:13:LEU:HD11	2.43	0.49
1:A3:99:MET:SD	1:g7:128:LYS:CD	2.92	0.49
1:D3:26:ASN:HD22	1:AE:102:SER:HB3	1.78	0.49
1:I3:314:GLY:HA3	1:I4:31:LYS:NZ	2.26	0.49
1:J3:242:THR:HG21	1:J3:246:LEU:HD12	1.94	0.49
1:K3:47:GLU:CG	1:I4:22:LEU:CB	2.91	0.49
1:Q3:81:PHE:O	1:CR:139:ARG:HD3	2.11	0.49
1:R3:230:THR:HG21	1:I8:165:VAL:HG11	1.94	0.49
1:Y3:82:ILE:CD1	1:BK:145:LEU:CD2	2.86	0.49
1:b3:26:ASN:HD22	1:g8:102:SER:HB3	1.78	0.49
1:I4:314:GLY:HA3	1:QL:31:LYS:NZ	2.26	0.49
1:I4:375:TRP:CZ3	1:QL:367:PRO:HG3	2.47	0.49
2:P4:9:SER:HB2	1:AE:363:PRO:HG2	1.95	0.49
2:P4:52:SER:O	1:C8:62:LEU:HD13	2.12	0.49
1:Q4:167:GLU:OE2	1:Q4:352:TYR:OH	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T4:49:PHE:N	1:AS:137:ASP:OD2	2.45	0.49
1:T4:68:LEU:HB2	1:T4:161:SER:HB3	1.94	0.49
2:W4:10:MET:HB2	1:DD:372:VAL:HG11	1.95	0.49
1:Y4:259:PHE:CD1	1:Y8:259:PHE:CE1	2.98	0.49
1:g4:110:LYS:NZ	1:AD:104:ASN:CB	2.66	0.49
1:g4:242:THR:HG21	1:g4:246:LEU:HD12	1.94	0.49
3:A5:308:THR:HG21	3:AI:300:LYS:NZ	2.28	0.49
5:E5:13:ASP:N	5:E5:13:ASP:OD1	2.45	0.49
5:N5:178:ILE:HD13	5:N5:185:MET:HG2	1.95	0.49
1:C6:279:VAL:HG12	1:C6:318:THR:HA	1.95	0.49
1:C6:363:PRO:HG2	2:HL:9:SER:HB2	1.95	0.49
1:D6:26:ASN:HD22	1:bQ:102:SER:HB3	1.78	0.49
2:N6:8:ARG:NH1	1:K8:152:ALA:O	2.45	0.49
1:Q6:28:ASP:CA	1:AJ:100:ASP:OD2	2.60	0.49
1:Q6:32:SER:HB2	1:LJ:174:MET:HE2	1.95	0.49
1:Y6:102:SER:HB3	1:LQ:26:ASN:HD22	1.78	0.49
1:Z6:85:TYR:HD1	1:Z6:122:GLY:HA2	1.76	0.49
1:g6:310:THR:HB	1:DJ:27:HIS:HE1	1.69	0.49
1:C7:28:ASP:CA	1:AK:100:ASP:OD2	2.60	0.49
1:B7:30:SER:O	1:BP:315:ALA:HA	2.11	0.49
1:B7:259:PHE:C	1:B7:260:GLN:HG2	2.37	0.49
1:D7:26:ASN:HD22	1:CQ:102:SER:HB3	1.78	0.49
1:D7:325:LYS:NZ	1:D7:325:LYS:CB	2.73	0.49
1:I7:319:TYR:HE1	1:cQ:95:VAL:HG21	1.76	0.49
1:J7:241:LEU:HD12	1:J7:271:ILE:HD11	1.93	0.49
1:K7:259:PHE:C	1:K7:260:GLN:HG2	2.37	0.49
1:Q7:367:PRO:HG3	1:YL:375:TRP:CZ3	2.47	0.49
1:T7:68:LEU:HB2	1:T7:161:SER:HB3	1.94	0.49
1:Y7:62:LEU:HD13	2:PR:52:SER:O	2.12	0.49
1:Y7:279:VAL:HG12	1:Y7:318:THR:HA	1.95	0.49
1:C8:321:VAL:CG2	1:C8:327:PHE:CD2	2.92	0.49
1:Q8:314:GLY:HA3	1:IG:31:LYS:NZ	2.26	0.49
1:Z8:242:THR:HG21	1:Z8:246:LEU:HD12	1.94	0.49
2:l8:1:MET:H3	1:KL:150:ASN:HD21	1.59	0.49
4:B9:32:PHE:CG	5:FC:55:LEU:HD11	2.35	0.49
5:FA:29:THR:CB	5:DC:24:THR:OG1	2.60	0.49
3:AB:63:ARG:HD3	3:AB:145:ASN:HD21	1.78	0.49
3:AC:24:ARG:HD3	3:AC:169:LEU:HB2	1.95	0.49
5:CC:275:ASN:CG	5:OH:355:GLN:OE1	2.55	0.49
1:AD:100:ASP:OD1	1:YG:25:PHE:C	2.55	0.49
1:LD:37:ASP:N	1:DK:120:LEU:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LD:149:THR:HG23	2:FK:16:GLU:HB3	1.94	0.49
2:HE:5:ASN:O	1:CP:153:LEU:HD12	2.10	0.49
1:SE:128:LYS:CD	1:JQ:99:MET:SD	2.92	0.49
5:NF:388:LYS:O	5:NF:388:LYS:HG3	2.13	0.49
1:TG:92:MET:HB2	1:TG:115:ARG:HB2	1.94	0.49
2:XG:2:TYR:HB2	2:HR:55:GLY:HA3	1.94	0.49
1:YG:315:ALA:CB	1:DK:31:LYS:HZ1	2.19	0.49
3:AH:308:THR:HG21	3:AN:300:LYS:NZ	2.28	0.49
4:BH:90:THR:HB	4:BH:93:ALA:HB3	1.94	0.49
4:BI:4:TYR:HB3	5:EO:44:SER:OG	2.12	0.49
4:BI:30:LEU:CB	5:EM:64:TRP:CD1	2.95	0.49
4:BI:90:THR:HB	4:BI:93:ALA:HB3	1.94	0.49
5:EI:57:GLU:HG2	4:BN:33:TYR:HE1	1.76	0.49
1:AJ:222:SER:OG	1:JS:53:TYR:HD1	1.95	0.49
1:BJ:237:ASP:OD1	1:BJ:237:ASP:N	2.43	0.49
1:CJ:128:LYS:HA	1:CJ:376:ILE:O	2.11	0.49
1:DJ:167:GLU:OE1	1:DJ:354:ARG:NH2	2.45	0.49
1:DJ:258:THR:HG23	1:KJ:256:ALA:HB1	1.95	0.49
1:AK:240:ILE:HB	1:AK:270:VAL:HA	1.94	0.49
1:AK:297:LEU:HD12	1:KP:29:TYR:OH	2.00	0.49
1:CK:122:GLY:H	1:jR:34:THR:HG21	1.77	0.49
1:DK:16:LYS:HB2	1:DK:19:LYS:HB2	1.94	0.49
1:LK:37:ASP:N	1:DP:120:LEU:O	2.45	0.49
1:LK:240:ILE:HD11	1:LK:270:VAL:HG13	1.93	0.49
1:CL:321:VAL:CG2	1:CL:327:PHE:CD2	2.92	0.49
1:JL:89:TYR:HE2	1:YR:63:LEU:HD13	1.71	0.49
1:QL:62:LEU:HD11	2:XR:53:PHE:O	2.03	0.49
2:fL:55:GLY:HA3	2:HR:2:TYR:HB2	1.94	0.49
3:AM:154:ILE:HA	3:AM:157:ILE:HG22	1.94	0.49
5:DM:24:THR:OG1	5:FO:29:THR:CB	2.60	0.49
5:NM:178:ILE:HD13	5:NM:185:MET:HG2	1.95	0.49
3:AN:53:ILE:HD11	3:AN:70:VAL:HG21	1.95	0.49
5:EN:140:ASP:HB3	5:CN:139:LYS:HZ3	1.75	0.49
5:EN:140:ASP:N	5:CN:139:LYS:HB3	2.25	0.49
3:AO:24:ARG:HD3	3:AO:169:LEU:HB2	1.95	0.49
3:AO:154:ILE:HA	3:AO:157:ILE:HG22	1.94	0.49
1:DP:258:THR:HG23	1:KP:256:ALA:HB1	1.94	0.49
2:gQ:1:MET:H2	1:iR:150:ASN:HD21	1.59	0.49
1:AR:241:LEU:HD12	1:AR:271:ILE:HD11	1.93	0.49
1:BR:259:PHE:C	1:BR:260:GLN:HG2	2.37	0.49
1:DR:68:LEU:HB2	1:DR:161:SER:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IR:279:VAL:HG12	1:IR:318:THR:HA	1.95	0.49
1:RR:241:LEU:HD12	1:RR:271:ILE:HD11	1.93	0.49
1:ZR:242:THR:HG21	1:ZR:246:LEU:HD12	1.94	0.49
1:hR:241:LEU:HD12	1:hR:271:ILE:HD11	1.93	0.49
1:AS:290:ASN:ND2	1:AS:325:LYS:HZ1	2.10	0.49
1:CS:167:GLU:OE1	1:CS:354:ARG:NH2	2.45	0.49
1:C1:62:LEU:HD13	2:H6:52:SER:O	2.12	0.49
1:I1:61:THR:CG2	1:JG:89:TYR:CE1	2.94	0.49
1:L1:197:LEU:HD13	1:L1:340:LEU:HB3	1.94	0.49
2:N1:8:ARG:NH1	1:S8:152:ALA:O	2.45	0.49
2:P1:52:SER:O	1:IG:62:LEU:HD13	2.12	0.49
1:R1:242:THR:HG21	1:R1:246:LEU:HD12	1.94	0.49
1:T1:367:PRO:CD	1:LJ:108:MET:HE1	2.42	0.49
1:X1:21:ALA:HB3	1:K8:47:GLU:O	2.12	0.49
1:f1:21:ALA:HB3	1:B3:47:GLU:O	2.12	0.49
1:f1:49:PHE:CB	1:B3:137:ASP:OD2	2.59	0.49
3:A2:209:MET:CG	4:BA:250:ILE:CD1	2.84	0.49
4:B2:4:TYR:HB3	5:E9:44:SER:OG	2.12	0.49
4:B2:90:THR:HB	4:B2:93:ALA:HB3	1.94	0.49
5:N2:228:ARG:HG2	5:CB:266:THR:OG1	2.12	0.49
1:A3:242:THR:HG21	1:A3:246:LEU:HD12	1.94	0.49
1:I3:279:VAL:HG12	1:I3:318:THR:HA	1.95	0.49
1:I3:375:TRP:CZ3	1:I4:367:PRO:HG3	2.47	0.49
1:K3:152:ALA:O	2:F8:8:ARG:NH1	2.45	0.49
1:C4:22:LEU:CB	1:BG:47:GLU:CG	2.91	0.49
1:C4:363:PRO:HG2	2:fL:9:SER:HB2	1.95	0.49
1:J4:357:LYS:HG2	2:N4:20:LEU:HD12	1.94	0.49
1:Q4:81:PHE:HE2	1:IQ:139:ARG:HD2	1.63	0.49
1:Q4:363:PRO:HG2	2:fR:9:SER:HB2	1.95	0.49
1:R4:222:SER:OG	1:BS:53:TYR:HD1	1.95	0.49
1:S4:14:VAL:HG21	1:IQ:14:VAL:HG23	1.94	0.49
1:T4:92:MET:HB2	1:T4:115:ARG:HB2	1.94	0.49
1:T4:179:SER:HG	1:T4:341:TYR:HH	1.53	0.49
1:T4:197:LEU:HD13	1:T4:340:LEU:HB3	1.94	0.49
1:T4:370:ASP:CG	1:BS:361:LYS:NZ	2.68	0.49
1:X4:21:ALA:HB3	1:BR:47:GLU:O	2.12	0.49
1:Y4:242:THR:HG21	1:Y4:246:LEU:HD12	1.94	0.49
2:e4:22:LYS:HG2	1:Y8:360:LEU:HD23	1.88	0.49
1:f4:321:VAL:CG2	1:f4:327:PHE:CD2	2.92	0.49
1:f4:367:PRO:HG3	1:C6:375:TRP:CZ3	2.47	0.49
1:g4:119:LYS:HD2	1:CD:37:ASP:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i4:27:HIS:CG	1:CD:312:PRO:CG	2.96	0.49
1:i4:29:TYR:O	1:CD:315:ALA:HB2	2.13	0.49
3:A5:155:GLU:CB	1:AJ:139:ARG:CB	2.82	0.49
4:B5:29:LYS:CA	5:EO:64:TRP:HE1	2.25	0.49
4:B5:123:GLN:HB3	4:B5:214:ALA:HB3	1.95	0.49
5:C5:178:ILE:HD11	5:C5:185:MET:HE3	1.95	0.49
5:O5:178:ILE:HD13	5:O5:185:MET:HG2	1.95	0.49
1:C6:102:SER:HB3	1:bG:26:ASN:HD22	1.78	0.49
1:I6:22:LEU:CB	1:aR:47:GLU:CG	2.91	0.49
1:Q6:279:VAL:HG12	1:Q6:318:THR:HA	1.95	0.49
1:Q6:316:VAL:HG21	1:CS:33:TRP:CZ3	2.47	0.49
1:S6:259:PHE:C	1:S6:260:GLN:HG2	2.37	0.49
1:Y6:363:PRO:HG2	2:PG:9:SER:HB2	1.95	0.49
1:a6:152:ALA:O	2:NQ:8:ARG:NH1	2.45	0.49
2:f6:9:SER:HB2	1:QQ:363:PRO:HG2	1.95	0.49
1:g6:82:ILE:HD11	1:DJ:144:THR:O	2.13	0.49
1:h6:242:THR:HG21	1:h6:246:LEU:HD12	1.94	0.49
1:I7:62:LEU:HD13	2:iQ:52:SER:O	2.12	0.49
1:S7:13:LEU:HD11	1:QR:45:MET:CE	2.43	0.49
1:a7:47:GLU:O	1:KE:21:ALA:HB3	2.12	0.49
1:b7:92:MET:HB2	1:b7:115:ARG:HB2	1.94	0.49
1:i7:47:GLU:O	1:C8:21:ALA:HB3	2.12	0.49
2:P8:2:TYR:HB2	2:hE:55:GLY:HA3	1.94	0.49
1:Q8:279:VAL:HG12	1:Q8:318:THR:HA	1.95	0.49
1:S8:47:GLU:CG	1:IG:22:LEU:CB	2.91	0.49
2:n8:55:GLY:HA3	2:fR:2:TYR:HB2	1.94	0.49
5:C9:266:THR:OG1	5:NA:228:ARG:HG2	2.12	0.49
5:N9:178:ILE:HD13	5:N9:185:MET:HG2	1.95	0.49
3:AA:118:ASP:OD1	3:AA:118:ASP:N	2.36	0.49
5:OA:388:LYS:HG3	5:OA:388:LYS:O	2.13	0.49
3:AB:114:PHE:CE2	2:MD:19:ARG:HB3	2.48	0.49
4:BB:144:GLN:NE2	4:BF:195:LYS:H	2.09	0.49
5:NB:228:ARG:HG2	5:CF:266:THR:OG1	2.12	0.49
1:AD:279:VAL:HG23	1:AD:334:ILE:HB	1.95	0.49
1:KD:15:ALA:C	1:KS:45:MET:HE1	2.15	0.49
1:LD:137:ASP:OD2	1:KK:50:VAL:HG21	2.02	0.49
2:ND:55:GLY:HA3	2:FK:2:TYR:HB3	1.84	0.49
1:DE:325:LYS:NZ	1:DE:325:LYS:CB	2.73	0.49
1:BE:375:TRP:CZ3	1:CP:367:PRO:CG	2.94	0.49
1:FE:143:GLN:C	1:CP:82:ILE:HG12	2.38	0.49
2:HE:1:MET:CA	1:CP:150:ASN:HD21	2.14	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LE:242:THR:HG21	1:LE:246:LEU:HD12	1.94	0.49
4:BF:90:THR:HB	4:BF:93:ALA:HB3	1.94	0.49
4:BF:123:GLN:HB3	4:BF:214:ALA:HB3	1.95	0.49
2:FG:8:ARG:NH1	1:SR:152:ALA:O	2.45	0.49
1:TG:197:LEU:HD13	1:TG:340:LEU:HB3	1.94	0.49
1:bG:92:MET:HB2	1:bG:115:ARG:HB2	1.94	0.49
3:AH:53:ILE:HD11	3:AH:70:VAL:HG21	1.95	0.49
4:BH:123:GLN:HB3	4:BH:214:ALA:HB3	1.95	0.49
3:AI:118:ASP:OD1	3:AI:118:ASP:N	2.36	0.49
4:BI:123:GLN:HB3	4:BI:214:ALA:HB3	1.95	0.49
1:AJ:120:LEU:CD1	1:JS:55:PHE:CG	2.93	0.49
1:AJ:349:SER:HB2	1:AJ:388:PHE:HB2	1.95	0.49
7:IJ:20:ALA:N	7:IJ:32:ALA:O	2.45	0.49
1:KJ:285:GLU:HG3	1:KJ:313:VAL:HG13	1.93	0.49
1:CK:36:GLY:CA	1:hR:119:LYS:HD2	2.42	0.49
1:DK:216:ASN:ND2	1:DK:229:TYR:O	2.46	0.49
1:KK:55:PHE:O	1:KK:57:LYS:NZ	2.41	0.49
1:LK:129:GLN:NE2	1:LK:159:LYS:O	2.45	0.49
2:NK:12:GLY:C	2:NK:14:SER:H	2.20	0.49
1:AL:241:LEU:HD12	1:AL:271:ILE:HD11	1.93	0.49
1:IL:45:MET:CE	1:KQ:13:LEU:HD11	2.43	0.49
1:IL:49:PHE:CB	1:KQ:137:ASP:OD2	2.59	0.49
1:JL:115:ARG:NH2	1:YR:300:TYR:CA	2.75	0.49
1:QL:165:VAL:HG11	1:RR:230:THR:HG21	1.94	0.49
1:QL:319:TYR:HE1	1:RR:95:VAL:HG21	1.76	0.49
1:YL:22:LEU:CB	1:SR:47:GLU:CG	2.91	0.49
5:CM:178:ILE:HD13	5:CM:185:MET:HG2	1.94	0.49
3:AO:152:SER:CB	1:IS:144:THR:CA	2.55	0.49
5:EO:13:ASP:N	5:EO:13:ASP:OD1	2.45	0.49
5:CO:178:ILE:HD13	5:CO:185:MET:HG2	1.95	0.49
1:AP:115:ARG:NH1	1:LP:298:ARG:O	2.45	0.49
1:BP:110:LYS:CE	1:hR:105:GLU:HB2	2.29	0.49
1:CP:355:TYR:HE1	1:CP:357:LYS:HZ1	1.60	0.49
1:DP:16:LYS:HB2	1:DP:19:LYS:HB2	1.94	0.49
2:NP:12:GLY:C	2:NP:14:SER:H	2.20	0.49
1:BQ:47:GLU:CG	1:gR:22:LEU:CB	2.91	0.49
1:eQ:197:LEU:HD13	1:eQ:340:LEU:HB3	1.94	0.49
1:SR:259:PHE:C	1:SR:260:GLN:HG2	2.37	0.49
1:AS:197:LEU:HD13	1:AS:340:LEU:HD13	1.95	0.49
2:DS:45:ILE:HD11	2:GS:31:SER:HB3	1.95	0.49
1:IS:349:SER:HB2	1:IS:388:PHE:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:102:SER:HB3	1:a4:26:ASN:HD22	1.78	0.49
1:C1:375:TRP:CZ3	1:Y8:367:PRO:HG3	2.47	0.49
1:I1:21:ALA:HB3	1:UE:47:GLU:O	2.12	0.49
1:Q1:31:LYS:NZ	1:IG:314:GLY:HA3	2.26	0.49
1:Q1:209:GLN:NE2	1:Q1:235:LEU:HB2	2.28	0.49
1:R1:375:TRP:CZ3	1:CJ:367:PRO:CG	2.94	0.49
1:S1:137:ASP:OD2	1:Q8:49:PHE:CB	2.59	0.49
1:T1:34:THR:HG21	1:CJ:122:GLY:H	1.77	0.49
1:X1:102:SER:HB3	1:b7:26:ASN:HD22	1.78	0.49
1:f1:128:LYS:CD	1:AQ:99:MET:SD	2.92	0.49
2:m1:9:SER:HB2	1:gR:363:PRO:HG2	1.95	0.49
3:A2:24:ARG:HD3	3:A2:169:LEU:HB2	1.95	0.49
5:E2:39:ASN:HD22	4:BB:251:TRP:HZ3	1.61	0.49
1:C3:14:VAL:HG23	1:SG:14:VAL:HG21	1.94	0.49
2:X3:22:LYS:HG2	1:I8:360:LEU:HD23	1.88	0.49
1:A4:242:THR:HG21	1:A4:246:LEU:HD12	1.94	0.49
1:B4:129:GLN:NE2	1:B4:159:LYS:O	2.41	0.49
2:H4:22:LYS:HG2	1:QG:360:LEU:HD22	1.91	0.49
2:H4:55:GLY:HA3	2:HQ:2:TYR:HB2	1.94	0.49
1:S4:105:GLU:O	1:KS:109:LEU:CD2	2.36	0.49
1:T4:47:GLU:HG2	1:AS:22:LEU:HD22	1.94	0.49
1:X4:360:LEU:HD23	2:f8:22:LYS:HG2	1.89	0.49
1:f4:319:TYR:HE1	1:ZG:95:VAL:HG21	1.76	0.49
1:h4:47:GLU:CG	1:gG:22:LEU:CB	2.91	0.49
1:i4:363:PRO:CG	2:HD:9:SER:HB2	2.29	0.49
3:A5:112:ILE:HG21	2:MJ:27:ASN:CG	1.93	0.49
5:C5:178:ILE:HD13	5:C5:185:MET:HG2	1.95	0.49
1:B6:150:ASN:ND2	2:dG:1:MET:H3	2.09	0.49
1:I6:375:TRP:CZ3	1:CL:367:PRO:HG3	2.47	0.49
1:J6:85:TYR:HD1	1:J6:122:GLY:HA2	1.76	0.49
2:f6:52:SER:O	1:KE:62:LEU:HD13	2.12	0.49
2:N7:8:ARG:NH1	1:a8:152:ALA:O	2.45	0.49
1:Q7:22:LEU:CB	1:aL:47:GLU:CG	2.91	0.49
1:R7:242:THR:HG21	1:R7:246:LEU:HD12	1.94	0.49
1:S7:137:ASP:OD2	1:QR:49:PHE:CB	2.59	0.49
1:T7:60:GLU:OE2	1:NE:351:LYS:NZ	2.43	0.49
1:Y7:165:VAL:HG11	1:JR:230:THR:HG21	1.94	0.49
1:a7:47:GLU:CG	1:KE:22:LEU:CB	2.91	0.49
1:h7:367:PRO:O	1:j7:377:HIS:NE2	2.38	0.49
1:B8:14:VAL:HG21	1:AE:14:VAL:CB	2.43	0.49
1:D8:197:LEU:HD13	1:D8:340:LEU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:375:TRP:CZ3	1:IG:367:PRO:HG3	2.47	0.49
1:Y8:321:VAL:CG2	1:Y8:327:PHE:CD2	2.92	0.49
1:a8:47:GLU:CG	1:bQ:22:LEU:CB	2.91	0.49
1:g8:20:SER:CB	1:BS:47:GLU:HB3	2.41	0.49
1:g8:46:PHE:HZ	1:BS:39:TRP:CH2	2.29	0.49
1:g8:58:ILE:HD13	1:BS:55:PHE:HD2	1.78	0.49
1:h8:242:THR:HG21	1:h8:246:LEU:HD12	1.94	0.49
4:B9:30:LEU:CB	5:EC:64:TRP:CD1	2.95	0.49
5:E9:37:ASP:OD2	3:AB:197:VAL:HG23	2.11	0.49
5:EA:17:PHE:HB2	5:EC:62:ARG:HH22	1.78	0.49
5:NA:178:ILE:HD13	5:NA:185:MET:HG2	1.95	0.49
3:AC:53:ILE:HD11	3:AC:70:VAL:HG21	1.95	0.49
5:FC:31:PHE:HE2	5:FH:47:ASP:CA	2.13	0.49
1:AD:145:LEU:CD2	3:AF:33:ASN:CA	2.85	0.49
1:AD:362:PRO:HD2	1:KK:365:HIS:CE1	2.48	0.49
1:BD:197:LEU:HD13	1:BD:340:LEU:HD13	1.95	0.49
1:CD:326:GLU:O	1:CD:327:PHE:HD1	1.96	0.49
1:KD:22:LEU:HD21	1:KS:48:THR:N	2.27	0.49
1:DE:92:MET:HB2	1:DE:115:ARG:HB2	1.94	0.49
1:DE:123:ASN:HD21	1:BP:21:ALA:HB1	1.77	0.49
1:AE:279:VAL:HG12	1:AE:318:THR:HA	1.95	0.49
1:BE:178:TYR:HB2	1:CP:35:PHE:HZ	1.75	0.49
1:CE:259:PHE:C	1:CE:260:GLN:HG2	2.37	0.49
2:RE:9:SER:HB2	1:SE:363:PRO:HG2	1.95	0.49
1:dE:197:LEU:HD13	1:dE:340:LEU:HB3	1.94	0.49
5:DF:31:PHE:HZ	3:AI:201:TYR:HE2	1.59	0.49
1:CG:209:GLN:NE2	1:CG:235:LEU:HB2	2.28	0.49
1:QG:363:PRO:HG2	2:HQ:9:SER:HB2	1.95	0.49
1:TG:68:LEU:HB2	1:TG:161:SER:HB3	1.94	0.49
1:YG:316:VAL:HG23	1:DK:31:LYS:HD3	1.93	0.49
1:ZG:242:THR:HG21	1:ZG:246:LEU:HD12	1.94	0.49
1:aG:129:GLN:NE2	1:aG:159:LYS:O	2.41	0.49
2:nG:52:SER:O	1:CL:62:LEU:HD13	2.12	0.49
5:FI:31:PHE:CD2	5:FO:46:TYR:CD1	3.01	0.49
1:BJ:21:ALA:HB2	1:gL:123:ASN:ND2	2.27	0.49
1:KJ:78:GLU:HG3	3:AN:66:ILE:HB	1.92	0.49
1:DK:258:THR:HG23	1:KK:256:ALA:HB1	1.95	0.49
1:LK:240:ILE:HG13	1:LK:270:VAL:HA	1.94	0.49
1:CL:102:SER:HB3	1:LL:26:ASN:HD22	1.78	0.49
1:IL:128:LYS:CD	1:ZR:99:MET:SD	2.92	0.49
1:QL:209:GLN:NE2	1:QL:235:LEU:HB2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RL:242:THR:HG21	1:RL:246:LEU:HD12	1.94	0.49
1:ZL:242:THR:HG21	1:ZL:246:LEU:HD12	1.94	0.49
1:gL:68:LEU:HB2	1:gL:161:SER:HB3	1.94	0.49
3:AM:24:ARG:HD3	3:AM:169:LEU:HB2	1.95	0.49
3:AN:201:TYR:HE2	5:DO:31:PHE:HZ	1.59	0.49
5:EN:13:ASP:N	5:EN:13:ASP:OD1	2.45	0.49
5:CN:178:ILE:HD11	5:CN:185:MET:HE3	1.95	0.49
1:AP:279:VAL:HG23	1:AP:334:ILE:HB	1.94	0.49
1:AP:349:SER:HB2	1:AP:388:PHE:HB2	1.95	0.49
1:BP:4:GLN:N	1:BP:4:GLN:NE2	2.60	0.49
1:AQ:241:LEU:HD12	1:AQ:271:ILE:HD11	1.93	0.49
1:JQ:242:THR:HG21	1:JQ:246:LEU:HD12	1.94	0.49
1:KQ:150:ASN:ND2	2:dR:1:MET:H3	2.10	0.49
1:QQ:208:LEU:CD1	1:QQ:391:ILE:HD12	1.95	0.49
1:cQ:241:LEU:HD12	1:cQ:271:ILE:HD11	1.93	0.49
1:QR:279:VAL:HG12	1:QR:318:THR:HA	1.95	0.49
1:YR:208:LEU:HD12	1:YR:391:ILE:HD11	1.89	0.49
1:ZR:241:LEU:HD12	1:ZR:271:ILE:HD11	1.93	0.49
1:AS:210:ASN:OD1	1:CS:71:ARG:NH2	2.35	0.49
1:IS:279:VAL:HG23	1:IS:334:ILE:HB	1.95	0.49
1:B1:13:LEU:HD11	1:Y8:45:MET:CE	2.43	0.49
1:K1:14:VAL:HG21	1:Y6:14:VAL:CB	2.43	0.49
1:T1:197:LEU:HD13	1:T1:340:LEU:HB3	1.94	0.49
1:Y1:242:THR:HG21	1:Y1:246:LEU:HD12	1.94	0.49
1:Z1:259:PHE:C	1:Z1:260:GLN:HG2	2.37	0.49
1:g1:89:TYR:HE2	1:CQ:63:LEU:HD13	1.71	0.49
1:g1:242:THR:HG21	1:g1:246:LEU:HD12	1.94	0.49
1:i1:26:ASN:HD22	1:I7:102:SER:HB3	1.78	0.49
3:A2:63:ARG:HD3	3:A2:145:ASN:HD21	1.78	0.49
3:A2:308:THR:HG21	3:A9:300:LYS:NZ	2.28	0.49
5:D2:24:THR:OG1	5:FB:29:THR:CB	2.60	0.49
5:E2:10:TYR:CZ	5:E9:66:TYR:CA	2.80	0.49
5:F2:31:PHE:CZ	5:F9:47:ASP:N	2.68	0.49
2:F3:8:ARG:NH1	1:CE:152:ALA:O	2.45	0.49
1:Q3:14:VAL:CB	1:Z4:14:VAL:HG21	2.43	0.49
1:Q3:22:LEU:CB	1:Z4:47:GLU:CG	2.91	0.49
1:R3:242:THR:HG21	1:R3:246:LEU:HD12	1.94	0.49
1:I4:62:LEU:HD13	2:H8:52:SER:O	2.12	0.49
1:I4:209:GLN:NE2	1:I4:235:LEU:HB2	2.28	0.49
1:Q4:58:ILE:HD11	1:h8:87:GLU:HB2	1.95	0.49
1:Q4:209:GLN:NE2	1:Q4:235:LEU:HB2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R4:119:LYS:HD2	1:BS:36:GLY:CA	2.42	0.49
1:T4:54:LEU:HD11	1:BS:116:MET:SD	2.52	0.49
1:T4:143:GLN:C	1:BS:82:ILE:HG12	2.38	0.49
1:T4:367:PRO:CD	1:KS:108:MET:HE1	2.42	0.49
1:X4:367:PRO:HG3	1:CR:375:TRP:CZ3	2.47	0.49
1:g4:105:GLU:OE1	1:BK:110:LYS:CD	2.60	0.49
1:h4:152:ALA:O	2:FL:8:ARG:NH1	2.45	0.49
1:i4:34:THR:HG21	1:CD:122:GLY:H	1.77	0.49
3:A5:24:ARG:HD3	3:A5:169:LEU:HB2	1.95	0.49
3:A5:300:LYS:NZ	3:AN:308:THR:HG21	2.28	0.49
5:E5:62:ARG:HH22	5:EN:17:PHE:HB2	1.78	0.49
5:F5:46:TYR:CD1	5:FN:31:PHE:CD2	3.01	0.49
1:I6:363:PRO:HG2	2:PL:9:SER:HB2	1.95	0.49
1:L6:26:ASN:HD22	1:I8:102:SER:HB3	1.78	0.49
1:Q6:82:ILE:HD11	1:CS:144:THR:O	2.13	0.49
1:Y6:279:VAL:HG12	1:Y6:318:THR:HA	1.95	0.49
1:Z6:87:GLU:HB2	1:KE:58:ILE:HD11	1.95	0.49
1:a6:13:LEU:HD11	1:SE:45:MET:CE	2.43	0.49
1:a6:259:PHE:C	1:a6:260:GLN:HG2	2.37	0.49
1:b6:68:LEU:HB2	1:b6:161:SER:HB3	1.94	0.49
1:g6:58:ILE:HD11	1:BE:87:GLU:HB2	1.95	0.49
1:g6:62:LEU:HD13	2:JE:52:SER:O	2.12	0.49
1:g6:136:ASN:HB2	1:LP:126:VAL:HG11	1.95	0.49
1:i6:28:ASP:OD1	1:i6:28:ASP:N	2.43	0.49
1:j6:351:LYS:NZ	1:gL:60:GLU:OE2	2.43	0.49
2:n6:9:SER:HB2	1:g7:363:PRO:HG2	1.95	0.49
2:n6:22:LYS:HG2	1:AE:360:LEU:HD22	1.91	0.49
1:C7:102:SER:HB3	1:DE:26:ASN:HD22	1.78	0.49
1:A7:242:THR:HG21	1:A7:246:LEU:HD12	1.94	0.49
1:I7:321:VAL:CG2	1:I7:327:PHE:CD2	2.92	0.49
1:J7:87:GLU:HB2	1:bQ:58:ILE:HD11	1.95	0.49
1:S7:152:ALA:O	2:VL:8:ARG:NH1	2.45	0.49
1:Y7:45:MET:CE	1:SQ:13:LEU:HD11	2.43	0.49
1:Y7:367:PRO:HG3	1:QQ:375:TRP:CZ3	2.47	0.49
1:g7:45:MET:CE	1:CE:13:LEU:HD11	2.43	0.49
1:I8:45:MET:CE	1:KR:13:LEU:HD11	2.43	0.49
1:Y8:167:GLU:OE2	1:Y8:352:TYR:OH	2.26	0.49
2:d8:8:ARG:NH1	1:BR:152:ALA:O	2.45	0.49
3:A9:308:THR:HG21	3:AA:300:LYS:NZ	2.28	0.49
5:C9:275:ASN:CG	5:OA:355:GLN:OE1	2.55	0.49
3:AA:53:ILE:HD11	3:AA:70:VAL:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:308:THR:HG21	3:AC:300:LYS:NZ	2.28	0.49
4:BC:4:TYR:HB3	5:EH:44:SER:OG	2.12	0.49
4:BC:251:TRP:HZ3	5:EH:39:ASN:HD22	1.61	0.49
5:CC:178:ILE:HD11	5:CC:185:MET:HE3	1.95	0.49
1:AD:335:LYS:NZ	1:AD:336:PRO:O	2.37	0.49
1:DD:173:ALA:HB2	1:DD:279:VAL:HG11	1.94	0.49
1:KD:139:ARG:NH1	1:IS:81:PHE:HD2	1.72	0.49
2:MD:8:ARG:HH11	2:MD:10:MET:H	1.61	0.49
1:FE:68:LEU:HB2	1:FE:161:SER:HB3	1.94	0.49
1:ME:14:VAL:HG21	1:QQ:14:VAL:CB	2.43	0.49
1:SE:62:LEU:HD13	2:PQ:52:SER:O	2.12	0.49
1:VE:351:LYS:NZ	1:LG:60:GLU:OE2	2.43	0.49
1:aE:279:VAL:HG12	1:aE:318:THR:HA	1.94	0.49
1:cE:14:VAL:HG21	1:CG:14:VAL:HG23	1.94	0.49
4:BF:141:THR:HG1	4:BF:196:SER:HG	1.60	0.49
5:OF:178:ILE:HD13	5:OF:185:MET:HG2	1.95	0.49
1:CG:61:THR:CG2	1:ZL:89:TYR:CE1	2.94	0.49
1:CG:102:SER:HB3	1:TG:26:ASN:HD22	1.78	0.49
1:CG:165:VAL:HG11	1:ZL:230:THR:HG21	1.94	0.49
1:AG:357:LYS:HG2	2:FG:20:LEU:HD12	1.94	0.49
1:IG:209:GLN:NE2	1:IG:235:LEU:HB2	2.28	0.49
1:QG:209:GLN:NE2	1:QG:235:LEU:HB2	2.28	0.49
1:hG:241:LEU:HD12	1:hG:271:ILE:HD11	1.93	0.49
3:AH:114:PHE:HA	2:MP:18:SER:C	2.38	0.49
4:BH:251:TRP:HZ3	5:EN:39:ASN:HD22	1.61	0.49
3:AI:53:ILE:HD11	3:AI:70:VAL:HG21	1.95	0.49
3:AI:63:ARG:HD3	3:AI:145:ASN:HD21	1.78	0.49
5:EI:17:PHE:HB2	5:EO:62:ARG:HH22	1.78	0.49
1:AJ:279:VAL:HG12	1:AJ:318:THR:HA	1.95	0.49
1:KJ:13:LEU:O	1:LP:45:MET:CE	2.55	0.49
1:KJ:53:TYR:HD1	1:AP:222:SER:OG	1.95	0.49
1:KJ:121:TYR:HB3	1:KJ:381:PHE:HZ	1.78	0.49
1:KJ:182:GLN:HB3	1:KJ:220:ARG:HH12	1.76	0.49
1:BK:168:GLU:OE1	1:CK:211:ASN:ND2	2.44	0.49
1:DK:173:ALA:HB2	1:DK:279:VAL:HG11	1.94	0.49
1:DK:240:ILE:HG22	1:DK:344:ILE:HG23	1.95	0.49
1:LK:45:MET:CE	1:KP:15:ALA:C	2.84	0.49
1:LK:147:ASP:N	1:LK:147:ASP:OD1	2.46	0.49
1:JL:230:THR:HG21	1:YR:165:VAL:HG11	1.94	0.49
1:JL:242:THR:HG21	1:JL:246:LEU:HD12	1.94	0.49
1:TL:197:LEU:HD13	1:TL:340:LEU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:XL:9:SER:HB2	1:YL:363:PRO:HG2	1.95	0.49
1:YL:21:ALA:HB3	1:SR:47:GLU:O	2.12	0.49
1:aL:259:PHE:C	1:aL:260:GLN:HG2	2.37	0.49
1:bL:325:LYS:NZ	1:bL:325:LYS:CB	2.73	0.49
3:AM:300:LYS:NZ	3:AO:308:THR:HG21	2.28	0.49
3:AM:300:LYS:HZ1	3:AO:308:THR:HG21	1.78	0.49
5:DM:67:ASP:CB	5:EO:11:PHE:HB2	2.39	0.49
5:OM:388:LYS:HG3	5:OM:388:LYS:O	2.13	0.49
3:AN:106:ARG:CA	2:MP:7:MET:HE1	2.23	0.49
4:BN:123:GLN:HB3	4:BN:214:ALA:HB3	1.95	0.49
5:NN:178:ILE:HD13	5:NN:185:MET:HG2	1.95	0.49
1:CQ:208:LEU:HD12	1:CQ:391:ILE:HD11	1.89	0.49
1:DQ:68:LEU:HB2	1:DQ:161:SER:HB3	1.94	0.49
1:QQ:102:SER:HB3	1:LR:26:ASN:HD22	1.78	0.49
1:RQ:242:THR:HG21	1:RQ:246:LEU:HD12	1.94	0.49
1:YQ:123:ASN:HD21	1:AS:21:ALA:HB1	1.77	0.49
2:ER:45:ILE:HG13	2:ER:46:HIS:H	1.66	0.49
1:IR:209:GLN:NE2	1:IR:235:LEU:HB2	2.28	0.49
1:hR:85:TYR:HD1	1:hR:122:GLY:HA2	1.76	0.49
1:C1:139:ARG:CD	1:bQ:81:PHE:CE2	2.71	0.49
1:C1:208:LEU:HD12	1:C1:391:ILE:HD11	1.89	0.49
1:B1:14:VAL:HG21	1:Y8:14:VAL:CB	2.43	0.49
1:K1:47:GLU:CG	1:Y6:22:LEU:CB	2.91	0.49
1:T1:27:HIS:CG	1:CJ:312:PRO:CG	2.96	0.49
1:T1:370:ASP:CG	1:CJ:361:LYS:NZ	2.68	0.49
1:X1:279:VAL:HG12	1:X1:318:THR:HA	1.95	0.49
2:e1:55:GLY:HA3	2:PL:2:TYR:HB2	1.94	0.49
1:g1:230:THR:HG21	1:CQ:165:VAL:HG11	1.94	0.49
3:A2:201:TYR:OH	3:A9:176:MET:HE3	2.13	0.49
5:F2:46:TYR:CD1	5:FB:31:PHE:CD2	3.01	0.49
5:C2:388:LYS:HG3	5:C2:388:LYS:O	2.13	0.49
1:C3:139:ARG:HD2	1:QG:81:PHE:HE2	1.63	0.49
2:E3:45:ILE:HG23	2:n6:31:SER:O	2.13	0.49
1:I3:49:PHE:CB	1:SL:137:ASP:OD2	2.59	0.49
1:I3:259:PHE:HE1	1:R8:259:PHE:HE1	1.48	0.49
1:J3:259:PHE:HE1	1:Q8:259:PHE:HE1	1.48	0.49
1:Q3:363:PRO:HG2	2:f8:9:SER:HB2	1.95	0.49
1:S3:129:GLN:NE2	1:S3:159:LYS:O	2.41	0.49
1:C4:49:PHE:CB	1:BG:137:ASP:OD2	2.59	0.49
1:A4:87:GLU:HB2	1:QG:58:ILE:HD11	1.95	0.49
1:A4:367:PRO:O	1:D4:377:HIS:NE2	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q4:21:ALA:HB3	1:KL:47:GLU:O	2.12	0.49
1:X4:58:ILE:HD11	1:Z8:87:GLU:HB2	1.95	0.49
1:Y4:95:VAL:HG21	1:Y8:319:TYR:HE1	1.76	0.49
1:Z4:129:GLN:NE2	1:Z4:159:LYS:O	2.41	0.49
1:a4:197:LEU:HD13	1:a4:340:LEU:HB3	1.94	0.49
1:f4:14:VAL:CB	1:B6:14:VAL:HG21	2.43	0.49
1:f4:45:MET:CE	1:B6:13:LEU:HD11	2.43	0.49
1:g4:87:GLU:HB2	1:YG:58:ILE:HD11	1.95	0.49
1:i4:197:LEU:HD13	1:i4:340:LEU:HB3	1.94	0.49
1:i4:367:PRO:CD	1:LD:108:MET:HE1	2.42	0.49
3:A5:53:ILE:HD11	3:A5:70:VAL:HG21	1.95	0.49
5:E5:39:ASN:HD22	4:BN:251:TRP:HZ3	1.61	0.49
5:F5:31:PHE:CZ	5:FI:47:ASP:N	2.68	0.49
5:C5:388:LYS:O	5:C5:388:LYS:HG3	2.13	0.49
1:I6:102:SER:HB3	1:jG:26:ASN:HD22	1.78	0.49
1:I6:209:GLN:NE2	1:I6:235:LEU:HB2	2.28	0.49
1:K6:259:PHE:C	1:K6:260:GLN:HG2	2.37	0.49
1:R6:242:THR:HG21	1:R6:246:LEU:HD12	1.94	0.49
1:S6:137:ASP:OD2	1:CS:49:PHE:CB	2.55	0.49
1:b6:26:ASN:HD22	1:Y7:102:SER:HB3	1.78	0.49
1:C7:279:VAL:HG12	1:C7:318:THR:HA	1.95	0.49
1:I7:367:PRO:HG3	1:gR:375:TRP:CZ3	2.47	0.49
1:Q7:49:PHE:CB	1:aL:137:ASP:OD2	2.59	0.49
1:Q7:279:VAL:HG12	1:Q7:318:THR:HA	1.95	0.49
2:X7:22:LYS:HG2	1:QQ:360:LEU:HD22	1.91	0.49
2:X7:52:SER:O	1:QQ:62:LEU:HD13	2.12	0.49
1:Y7:58:ILE:HD11	1:JR:87:GLU:HB2	1.95	0.49
1:a7:259:PHE:C	1:a7:260:GLN:HG2	2.37	0.49
1:I8:14:VAL:CB	1:KR:14:VAL:HG21	2.43	0.49
2:U8:45:ILE:HG13	2:U8:46:HIS:H	1.66	0.49
1:g8:136:ASN:HB2	1:KS:126:VAL:HG11	1.95	0.49
1:j8:26:ASN:HD22	1:IL:102:SER:HB3	1.78	0.49
5:E9:25:ARG:NH1	5:DA:54:LYS:CD	2.71	0.49
5:C9:388:LYS:O	5:C9:388:LYS:HG3	2.13	0.49
5:N9:178:ILE:HD11	5:N9:185:MET:HE3	1.95	0.49
5:O9:178:ILE:HD13	5:O9:185:MET:HG2	1.95	0.49
5:O9:388:LYS:HG3	5:O9:388:LYS:O	2.13	0.49
5:NB:388:LYS:HG3	5:NB:388:LYS:O	2.13	0.49
1:BD:104:ASN:ND2	1:BD:106:GLU:OE2	2.46	0.49
1:KD:365:HIS:CE1	1:IS:362:PRO:HD2	2.48	0.49
1:LD:126:VAL:HG11	1:YG:136:ASN:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MD:8:ARG:NH2	1:KK:374:HIS:CG	2.81	0.49
1:BE:83:GLY:N	1:CP:139:ARG:O	2.45	0.49
1:BE:382:LYS:O	1:CP:33:TRP:HA	2.13	0.49
1:KE:152:ALA:HB2	2:PR:15:TYR:CD2	2.47	0.49
1:ME:259:PHE:C	1:ME:260:GLN:HG2	2.37	0.49
1:NE:68:LEU:HB2	1:NE:161:SER:HB3	1.94	0.49
4:BF:144:GLN:NE2	4:BM:195:LYS:H	2.09	0.49
5:CF:388:LYS:HG3	5:CF:388:LYS:O	2.13	0.49
1:gG:58:ILE:HD11	1:AL:87:GLU:HB2	1.95	0.49
3:AH:29:ARG:NH1	1:AJ:53:TYR:CB	2.76	0.49
4:BH:192:THR:CB	4:BN:147:THR:HG22	2.43	0.49
5:CH:178:ILE:HD13	5:CH:185:MET:HG2	1.95	0.49
5:CI:178:ILE:HD13	5:CI:185:MET:HG2	1.94	0.49
5:CI:266:THR:OG1	5:NO:228:ARG:HG2	2.12	0.49
5:OI:388:LYS:O	5:OI:388:LYS:HG3	2.13	0.49
1:BJ:21:ALA:HB1	1:gL:123:ASN:HD21	1.77	0.49
1:DJ:216:ASN:ND2	1:DJ:229:TYR:O	2.46	0.49
1:AK:104:ASN:CB	1:hR:110:LYS:NZ	2.66	0.49
1:AK:178:TYR:HB2	1:KP:35:PHE:CE1	2.47	0.49
1:AK:222:SER:OG	1:KP:53:TYR:HD1	1.95	0.49
1:AK:279:VAL:HG12	1:AK:318:THR:HA	1.95	0.49
1:CK:33:TRP:HA	1:hR:382:LYS:O	2.13	0.49
1:CK:312:PRO:CG	1:jR:27:HIS:CG	2.96	0.49
1:CK:326:GLU:O	1:CK:327:PHE:HD1	1.96	0.49
1:KK:104:ASN:ND2	1:KK:106:GLU:OE2	2.45	0.49
1:KK:121:TYR:HB3	1:KK:381:PHE:HZ	1.78	0.49
2:MK:8:ARG:NH2	1:KP:374:HIS:CG	2.81	0.49
2:MK:15:TYR:O	1:KP:145:LEU:CG	2.59	0.49
2:NK:10:MET:HA	2:NK:14:SER:CB	2.42	0.49
1:JL:87:GLU:HB2	1:YR:58:ILE:HD11	1.95	0.49
1:JL:168:GLU:OE2	1:KL:211:ASN:ND2	2.38	0.49
1:LL:92:MET:HB2	1:LL:115:ARG:HB2	1.94	0.49
2:UL:45:ILE:HG23	2:XQ:31:SER:O	2.13	0.49
2:XL:55:GLY:HA3	2:XQ:2:TYR:HB2	1.94	0.49
1:YL:102:SER:HB3	1:TQ:26:ASN:HD22	1.78	0.49
3:AM:163:GLU:OE2	3:AM:241:LYS:NZ	2.43	0.49
5:CN:388:LYS:O	5:CN:388:LYS:HG3	2.13	0.49
5:CO:178:ILE:HD11	5:CO:185:MET:HE3	1.95	0.49
1:DP:372:VAL:HG11	2:mR:10:MET:HB2	1.95	0.49
2:EP:45:ILE:HD11	2:HP:31:SER:HB3	1.95	0.49
1:LP:240:ILE:HG13	1:LP:270:VAL:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DQ:197:LEU:HD13	1:DQ:340:LEU:HB3	1.94	0.49
1:QR:321:VAL:CG2	1:QR:327:PHE:CD2	2.92	0.49
1:RR:242:THR:HG21	1:RR:246:LEU:HD12	1.94	0.49
1:iR:259:PHE:C	1:iR:260:GLN:HG2	2.37	0.49
1:AS:104:ASN:ND2	1:AS:106:GLU:OE2	2.46	0.49
1:CS:240:ILE:HG22	1:CS:344:ILE:HG23	1.95	0.49
1:C1:45:MET:CE	1:dQ:13:LEU:HD11	2.43	0.49
1:I1:209:GLN:NE2	1:I1:235:LEU:HB2	2.28	0.49
2:M1:45:ILE:HG23	2:P3:31:SER:O	2.13	0.49
1:S1:100:ASP:HA	1:CJ:25:PHE:C	2.24	0.49
1:S1:150:ASN:ND2	2:N3:1:MET:N	2.61	0.49
2:U1:8:ARG:NH2	1:CJ:131:PHE:HE2	2.11	0.49
1:X1:22:LEU:CB	1:K8:47:GLU:CG	2.91	0.49
1:f1:102:SER:HB3	1:D4:26:ASN:HD22	1.78	0.49
1:g1:87:GLU:HB2	1:CQ:58:ILE:HD11	1.95	0.49
1:h1:47:GLU:O	1:QG:21:ALA:HB3	2.12	0.49
1:i1:92:MET:HB2	1:i1:115:ARG:HB2	1.94	0.49
5:F2:47:ASP:N	5:FB:31:PHE:CZ	2.68	0.49
5:C2:178:ILE:HD11	5:C2:185:MET:HE3	1.95	0.49
5:C2:178:ILE:HD13	5:C2:185:MET:HG2	1.95	0.49
1:D3:92:MET:HB2	1:D3:115:ARG:HB2	1.94	0.49
2:H3:52:SER:O	1:g7:62:LEU:HD13	2.12	0.49
1:I3:102:SER:HB3	1:D8:26:ASN:HD22	1.78	0.49
1:I3:209:GLN:NE2	1:I3:235:LEU:HB2	2.28	0.49
1:Q3:209:GLN:NE2	1:Q3:235:LEU:HB2	2.28	0.49
1:S3:47:GLU:O	1:CR:21:ALA:HB3	2.12	0.49
2:Z3:45:ILE:HG23	2:l4:31:SER:O	2.13	0.49
1:C4:86:SER:HB2	1:B4:60:GLU:HB2	1.95	0.49
2:H4:31:SER:O	2:k7:45:ILE:HG23	2.13	0.49
1:I4:363:PRO:HG2	2:X8:9:SER:HB2	1.95	0.49
1:J4:345:LEU:HD11	1:J4:350:ILE:HD11	1.95	0.49
1:K4:259:PHE:C	1:K4:260:GLN:HG2	2.37	0.49
1:L4:60:GLU:OE2	1:j7:351:LYS:NZ	2.43	0.49
1:Q4:360:LEU:HD22	2:n8:22:LYS:HG2	1.91	0.49
2:U4:8:ARG:NH2	1:BS:131:PHE:HE2	2.11	0.49
1:X4:22:LEU:CB	1:BR:47:GLU:CG	2.91	0.49
1:g4:81:PHE:O	1:CD:139:ARG:HD2	2.13	0.49
1:g4:357:LYS:HG2	2:j4:20:LEU:HD12	1.94	0.49
2:l4:11:MET:CE	1:DK:372:VAL:HG23	2.27	0.49
3:A5:209:MET:CG	4:BO:250:ILE:CD1	2.84	0.49
4:B5:119:GLU:HB2	4:B5:218:GLN:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B5:250:ILE:CG1	3:AH:208:LYS:O	2.57	0.49
5:N5:228:ARG:HG2	5:CN:266:THR:OG1	2.12	0.49
1:C6:45:MET:CE	1:iG:13:LEU:HD11	2.43	0.49
1:C6:208:LEU:HD12	1:C6:391:ILE:HD11	1.89	0.49
1:I6:14:VAL:CB	1:aR:14:VAL:HG21	2.43	0.49
1:I6:86:SER:HB2	1:K6:60:GLU:HB2	1.95	0.49
1:K6:129:GLN:NE2	1:K6:159:LYS:O	2.41	0.49
2:N6:1:MET:H3	1:K8:150:ASN:ND2	2.11	0.49
1:Q6:102:SER:HB3	1:YQ:26:ASN:HD22	1.78	0.49
1:Q6:153:LEU:CD2	2:NJ:4:GLY:HA3	2.37	0.49
1:Y6:360:LEU:HD22	2:RE:22:LYS:HG2	1.91	0.49
1:Z6:345:LEU:HD11	1:Z6:350:ILE:HD11	1.95	0.49
1:a6:14:VAL:HG21	1:SE:14:VAL:CB	2.43	0.49
1:g6:102:SER:HB3	1:gL:26:ASN:HD22	1.78	0.49
1:g6:316:VAL:HG23	1:DJ:31:LYS:HD3	1.93	0.49
1:C7:153:LEU:CD2	2:NK:4:GLY:HA3	2.37	0.49
1:B7:17:SER:HA	1:DP:44:THR:O	2.13	0.49
1:B7:45:MET:HE2	1:DP:39:TRP:HZ3	1.78	0.49
1:Q7:209:GLN:NE2	1:Q7:235:LEU:HB2	2.28	0.49
1:S7:259:PHE:C	1:S7:260:GLN:HG2	2.37	0.49
2:f7:9:SER:HB2	1:I8:363:PRO:HG2	1.95	0.49
2:f7:15:TYR:CD2	1:I8:152:ALA:HB2	2.47	0.49
1:g7:14:VAL:CB	1:CE:14:VAL:HG21	2.43	0.49
1:j7:197:LEU:HD13	1:j7:340:LEU:HB3	1.94	0.49
1:C8:81:PHE:O	1:AE:139:ARG:HD3	2.11	0.49
1:C8:209:GLN:NE2	1:C8:235:LEU:HB2	2.28	0.49
1:B8:47:GLU:CG	1:AE:22:LEU:CB	2.91	0.49
1:B8:129:GLN:NE2	1:B8:159:LYS:O	2.41	0.49
2:E8:45:ILE:HG23	2:X8:31:SER:O	2.13	0.49
2:M8:45:ILE:HG23	2:f8:31:SER:O	2.13	0.49
1:Q8:209:GLN:NE2	1:Q8:235:LEU:HB2	2.28	0.49
2:V8:1:MET:N	1:SL:150:ASN:ND2	2.61	0.49
1:Z8:345:LEU:HD11	1:Z8:350:ILE:HD11	1.95	0.49
1:Z8:357:LYS:HG2	2:d8:20:LEU:HD12	1.94	0.49
1:b8:197:LEU:HD13	1:b8:340:LEU:HB3	1.94	0.49
2:n8:31:SER:O	2:WE:45:ILE:HG23	2.13	0.49
5:FB:46:TYR:CD1	5:FF:31:PHE:CD2	3.01	0.49
5:CC:388:LYS:O	5:CC:388:LYS:HG3	2.13	0.49
1:LD:45:MET:CE	1:KK:15:ALA:C	2.84	0.49
1:BE:345:LEU:HD11	1:BE:350:ILE:HD11	1.95	0.49
1:FE:367:PRO:CD	1:LP:108:MET:HE1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ME:28:ASP:N	1:ME:28:ASP:OD1	2.43	0.49
2:RE:31:SER:O	2:MQ:45:ILE:HG23	2.13	0.49
1:SE:259:PHE:CE1	1:JQ:259:PHE:CD1	2.98	0.49
1:TE:367:PRO:O	1:VE:377:HIS:NE2	2.38	0.49
1:aE:86:SER:HB2	1:cE:60:GLU:HB2	1.95	0.49
1:cE:13:LEU:HD11	1:CG:45:MET:CE	2.43	0.49
2:hE:22:LYS:HG2	1:CR:360:LEU:HD23	1.89	0.49
3:AF:154:ILE:HA	3:AF:157:ILE:HG22	1.94	0.49
5:NF:231:ASN:CA	5:CM:265:LEU:CD1	2.74	0.49
5:OF:388:LYS:O	5:OF:388:LYS:HG3	2.13	0.49
1:CG:363:PRO:HG2	2:HR:9:SER:HB2	1.95	0.49
1:DG:26:ASN:HD22	1:QR:102:SER:HB3	1.78	0.49
1:DG:92:MET:HB2	1:DG:115:ARG:HB2	1.94	0.49
1:bG:197:LEU:HD13	1:bG:340:LEU:HB3	1.94	0.49
1:jG:325:LYS:NZ	1:jG:325:LYS:CB	2.73	0.49
3:AH:201:TYR:OH	3:AN:176:MET:HE3	2.13	0.49
3:AI:308:THR:HG21	3:AO:300:LYS:NZ	2.28	0.49
5:EI:64:TRP:HE1	4:BN:29:LYS:CA	2.25	0.49
1:AJ:279:VAL:HG23	1:AJ:334:ILE:HB	1.95	0.49
1:BJ:144:THR:HG23	1:BJ:147:ASP:H	1.77	0.49
1:LJ:26:ASN:OD1	1:AS:100:ASP:OD1	2.22	0.49
1:LJ:147:ASP:N	1:LJ:147:ASP:OD1	2.46	0.49
2:NJ:41:TYR:O	8:PJ:117:ALA:N	2.43	0.49
1:AK:115:ARG:NH1	1:LK:298:ARG:O	2.45	0.49
1:AK:362:PRO:HD2	1:KP:365:HIS:CE1	2.48	0.49
1:BK:20:SER:HB3	1:jR:45:MET:HA	1.94	0.49
1:BK:104:ASN:ND2	1:BK:106:GLU:OE2	2.46	0.49
1:CK:38:LYS:CE	1:hR:222:SER:C	2.77	0.49
1:CK:315:ALA:HB2	1:jR:29:TYR:O	2.12	0.49
2:HK:4:GLY:CA	1:jR:153:LEU:HD21	2.31	0.49
1:QL:46:PHE:CD1	1:RR:85:TYR:HE2	2.31	0.49
1:QL:58:ILE:HD11	1:RR:87:GLU:HB2	1.95	0.49
3:AM:114:PHE:C	2:LS:13:THR:OG1	2.53	0.49
3:AM:115:ILE:N	2:LS:13:THR:OG1	2.46	0.49
4:BM:90:THR:HB	4:BM:93:ALA:HB3	1.94	0.49
5:FM:46:TYR:CD1	5:FO:31:PHE:CD2	3.01	0.49
3:AN:163:GLU:OE2	3:AN:241:LYS:NZ	2.43	0.49
5:ON:388:LYS:HG3	5:ON:388:LYS:O	2.13	0.49
3:AO:51:VAL:HG21	3:AO:299:ILE:HD11	1.95	0.49
1:CP:326:GLU:O	1:CP:327:PHE:HD1	1.96	0.49
1:DP:239:VAL:HG11	2:GP:48:LEU:HG	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SQ:259:PHE:C	1:SQ:260:GLN:HG2	2.37	0.49
1:YQ:81:PHE:CE2	1:AS:139:ARG:CG	2.95	0.49
1:bR:197:LEU:HD13	1:bR:340:LEU:HB3	1.94	0.49
1:gR:86:SER:HB2	1:iR:60:GLU:HB2	1.95	0.49
1:gR:209:GLN:NE2	1:gR:235:LEU:HB2	2.28	0.49
1:iR:129:GLN:NE2	1:iR:159:LYS:O	2.41	0.49
1:IS:302:ASP:OD2	1:IS:305:SER:OG	2.25	0.49
1:I1:81:PHE:O	1:Y6:139:ARG:HD3	2.11	0.48
1:L1:26:ASN:HD22	1:Q8:102:SER:HB3	1.78	0.48
1:Q1:46:PHE:CD1	1:R6:85:TYR:HE2	2.31	0.48
1:Q1:58:ILE:HD11	1:R6:87:GLU:HB2	1.95	0.48
1:Q1:208:LEU:HD12	1:Q1:391:ILE:HD11	1.89	0.48
1:T1:15:ALA:CB	1:BJ:6:THR:HG21	2.43	0.48
1:T1:47:GLU:HG2	1:BJ:22:LEU:HD22	1.94	0.48
1:T1:141:ASN:ND2	1:BJ:54:LEU:HD12	2.28	0.48
1:X1:58:ILE:HD11	1:J6:87:GLU:HB2	1.95	0.48
1:Z1:13:LEU:HD11	1:IR:45:MET:CE	2.43	0.48
1:f1:279:VAL:HG12	1:f1:318:THR:HA	1.95	0.48
1:g1:85:TYR:HE2	1:CQ:46:PHE:CD1	2.31	0.48
1:h1:14:VAL:HG21	1:QG:14:VAL:CB	2.43	0.48
1:h1:47:GLU:CG	1:QG:22:LEU:CB	2.91	0.48
2:m1:2:TYR:HB2	2:H7:55:GLY:HA3	1.94	0.48
5:C2:275:ASN:CG	5:O9:355:GLN:OE1	2.55	0.48
1:A3:230:THR:HG21	1:g7:165:VAL:HG11	1.94	0.48
1:A3:259:PHE:CD1	1:g7:259:PHE:CE1	2.98	0.48
2:P3:9:SER:HB2	1:IG:363:PRO:HG2	1.95	0.48
1:S3:13:LEU:HD11	1:CR:45:MET:CE	2.43	0.48
1:T3:26:ASN:HD22	1:IR:102:SER:HB3	1.78	0.48
2:d3:2:TYR:CD1	1:BD:150:ASN:ND2	2.81	0.48
1:C4:367:PRO:HG3	1:CG:375:TRP:CZ3	2.47	0.48
1:B4:47:GLU:O	1:aE:21:ALA:HB3	2.12	0.48
1:L4:26:ASN:HD22	1:g7:102:SER:HB3	1.78	0.48
1:L4:68:LEU:HB2	1:L4:161:SER:HB3	1.94	0.48
1:Q4:14:VAL:CB	1:KL:14:VAL:HG21	2.43	0.48
1:Q4:302:ASP:CG	1:IQ:29:TYR:HH	2.07	0.48
1:R4:81:PHE:O	1:BS:139:ARG:HD2	2.13	0.48
1:X4:33:TRP:HZ2	1:CR:177:ASP:OD2	1.96	0.48
1:X4:45:MET:CE	1:BR:13:LEU:HD11	2.43	0.48
1:f4:22:LEU:CB	1:B6:47:GLU:CG	2.91	0.48
1:f4:167:GLU:OE2	1:f4:352:TYR:OH	2.26	0.48
1:g4:345:LEU:HD11	1:g4:350:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l4:22:LYS:HG2	1:YG:360:LEU:HD23	1.89	0.48
3:A5:155:GLU:OE1	1:AJ:135:ASN:O	2.31	0.48
4:B5:10:ASP:OD2	5:FI:38:TYR:OH	2.25	0.48
5:C5:266:THR:OG1	5:NI:228:ARG:HG2	2.12	0.48
1:C6:14:VAL:CB	1:iG:14:VAL:HG21	2.43	0.48
1:Q6:35:PHE:CE1	1:LJ:178:TYR:CD1	2.97	0.48
1:Q6:321:VAL:CG2	1:Q6:327:PHE:CD2	2.92	0.48
1:T6:100:ASP:CA	1:AS:25:PHE:O	2.61	0.48
1:Y6:165:VAL:HG11	1:LE:230:THR:HG21	1.94	0.48
1:g6:27:HIS:O	1:AP:100:ASP:OD1	2.29	0.48
1:g6:32:SER:HB2	1:LP:174:MET:HE2	1.95	0.48
1:g6:209:GLN:NE2	1:g6:235:LEU:HB2	2.28	0.48
1:h6:230:THR:HG21	1:AE:165:VAL:HG11	1.94	0.48
1:i6:45:MET:HE2	1:DJ:39:TRP:HZ3	1.78	0.48
1:j6:68:LEU:HB2	1:j6:161:SER:HB3	1.94	0.48
1:C7:25:PHE:C	1:AK:100:ASP:HA	2.32	0.48
1:I7:58:ILE:HD11	1:cQ:87:GLU:HB2	1.95	0.48
1:I7:279:VAL:HG12	1:I7:318:THR:HA	1.95	0.48
1:Q7:61:THR:CG2	1:RQ:89:TYR:CE1	2.94	0.48
1:S7:14:VAL:HG21	1:QR:14:VAL:CB	2.43	0.48
1:T7:26:ASN:HD22	1:KE:102:SER:HB3	1.78	0.48
1:T7:92:MET:HB2	1:T7:115:ARG:HB2	1.94	0.48
1:Y7:22:LEU:CB	1:SQ:47:GLU:CG	2.91	0.48
1:Y7:61:THR:CG2	1:JR:89:TYR:CE1	2.94	0.48
1:g7:86:SER:HB2	1:i7:60:GLU:HB2	1.95	0.48
1:Y8:302:ASP:CG	1:bQ:29:TYR:HH	2.05	0.48
1:g8:86:SER:HB2	1:i8:60:GLU:HB2	1.95	0.48
1:h8:367:PRO:O	1:j8:377:HIS:NE2	2.38	0.48
1:j8:100:ASP:CA	1:BD:25:PHE:O	2.61	0.48
4:B9:90:THR:HB	4:B9:93:ALA:HB3	1.94	0.48
5:E9:17:PHE:HB2	5:EA:62:ARG:HH22	1.78	0.48
5:E9:64:TRP:HE1	4:BB:29:LYS:CA	2.25	0.48
5:F9:29:THR:CB	5:DA:24:THR:OG1	2.60	0.48
3:AA:51:VAL:HG21	3:AA:299:ILE:HD11	1.95	0.48
3:AA:201:TYR:OH	3:AC:176:MET:HE3	2.13	0.48
4:BA:4:TYR:HB3	5:EC:44:SER:OG	2.12	0.48
4:BA:123:GLN:HB3	4:BA:214:ALA:HB3	1.95	0.48
5:DA:28:TYR:HE2	1:AK:140:PHE:CD2	1.89	0.48
5:CA:178:ILE:HD13	5:CA:185:MET:HG2	1.95	0.48
3:AB:154:ILE:H	1:AD:135:ASN:HD21	1.61	0.48
5:OC:178:ILE:HD13	5:OC:185:MET:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:222:SER:OG	1:KK:53:TYR:HD1	1.95	0.48
1:FE:45:MET:HA	1:BP:20:SER:HB3	1.94	0.48
1:FE:54:LEU:HD11	1:CP:116:MET:SD	2.52	0.48
1:SE:102:SER:HB3	1:LG:26:ASN:HD22	1.78	0.48
1:VE:197:LEU:HD13	1:VE:340:LEU:HB3	1.94	0.48
1:aE:209:GLN:NE2	1:aE:235:LEU:HB2	2.28	0.48
1:aE:375:TRP:CZ3	1:CG:367:PRO:HG3	2.47	0.48
1:bE:345:LEU:HD11	1:bE:350:ILE:HD11	1.95	0.48
4:BF:250:ILE:CG1	3:AO:208:LYS:O	2.57	0.48
1:JG:345:LEU:HD11	1:JG:350:ILE:HD11	1.95	0.48
1:KG:259:PHE:C	1:KG:260:GLN:HG2	2.37	0.48
2:UG:45:ILE:HG23	2:fL:31:SER:O	2.13	0.48
1:aG:17:SER:HA	1:DK:44:THR:O	2.13	0.48
3:AI:154:ILE:HA	3:AI:157:ILE:HG22	1.94	0.48
4:BI:251:TRP:HZ3	5:EO:39:ASN:HD22	1.61	0.48
1:CJ:174:MET:HG2	1:CJ:382:LYS:HD3	1.95	0.48
1:DK:167:GLU:OE1	1:DK:354:ARG:NH2	2.45	0.48
1:LK:45:MET:HE1	1:KP:15:ALA:C	2.15	0.48
1:JL:85:TYR:HE2	1:YR:46:PHE:CD1	2.31	0.48
1:YL:279:VAL:HG12	1:YL:318:THR:HA	1.95	0.48
2:cL:45:ILE:HG23	2:HR:31:SER:O	2.13	0.48
1:gL:92:MET:HB2	1:gL:115:ARG:HB2	1.94	0.48
3:AM:51:VAL:HG21	3:AM:299:ILE:HD11	1.95	0.48
5:EM:62:ARG:HH22	5:EO:17:PHE:HB2	1.78	0.48
5:NN:178:ILE:HD11	5:NN:185:MET:HE3	1.95	0.48
5:NN:388:LYS:HG3	5:NN:388:LYS:O	2.13	0.48
5:NO:178:ILE:HD13	5:NO:185:MET:HG2	1.94	0.48
1:CP:174:MET:HG2	1:CP:382:LYS:HD3	1.95	0.48
1:LP:185:GLU:HA	1:LP:188:VAL:HG12	1.95	0.48
1:CQ:279:VAL:HG12	1:CQ:318:THR:HA	1.95	0.48
1:BQ:14:VAL:HG21	1:gR:14:VAL:CB	2.43	0.48
1:YQ:92:MET:HB2	1:YQ:115:ARG:HB2	1.94	0.48
1:bQ:209:GLN:NE2	1:bQ:235:LEU:HB2	2.28	0.48
1:eQ:26:ASN:HD22	1:gR:102:SER:HB3	1.78	0.48
1:eQ:325:LYS:NZ	1:eQ:325:LYS:CB	2.73	0.48
1:AR:242:THR:HG21	1:AR:246:LEU:HD12	1.94	0.48
1:aR:28:ASP:OD1	1:aR:28:ASP:N	2.42	0.48
1:bR:68:LEU:HB2	1:bR:161:SER:HB3	1.94	0.48
1:KS:184:SER:OG	1:KS:219:HIS:NE2	2.46	0.48
1:C1:14:VAL:CB	1:dQ:14:VAL:HG21	2.43	0.48
1:C1:22:LEU:CB	1:dQ:47:GLU:CG	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:49:PHE:CB	1:dQ:137:ASP:OD2	2.59	0.48
1:B1:47:GLU:CG	1:Y8:22:LEU:CB	2.91	0.48
2:M1:45:ILE:CG1	2:M1:46:HIS:H	2.23	0.48
1:Q1:14:VAL:CB	1:KG:14:VAL:HG21	2.43	0.48
1:X1:177:ASP:OD2	1:IR:33:TRP:HZ2	1.96	0.48
2:e1:22:LYS:HG2	1:I6:360:LEU:HD23	1.89	0.48
1:f1:165:VAL:HG11	1:AQ:230:THR:HG21	1.94	0.48
1:I3:22:LEU:CB	1:SL:47:GLU:CG	2.91	0.48
1:J3:89:TYR:HE2	1:Q8:63:LEU:HD13	1.71	0.48
1:K3:14:VAL:HG21	1:I4:14:VAL:CB	2.43	0.48
1:Q3:259:PHE:HE1	1:J8:259:PHE:HE1	1.48	0.48
1:R3:87:GLU:HB2	1:I8:58:ILE:HD11	1.95	0.48
1:R3:241:LEU:HD12	1:R3:271:ILE:HD11	1.93	0.48
2:U3:45:ILE:HG23	2:f7:31:SER:O	2.13	0.48
2:X3:2:TYR:HB2	2:P6:55:GLY:HA3	1.94	0.48
1:b3:92:MET:HB2	1:b3:115:ARG:HB2	1.94	0.48
2:d3:2:TYR:HE2	1:BD:157:LYS:HE3	1.78	0.48
1:K4:14:VAL:HG21	1:QL:14:VAL:CB	2.43	0.48
1:Q4:22:LEU:CB	1:KL:47:GLU:CG	2.91	0.48
1:X4:46:PHE:CD1	1:Z8:85:TYR:HE2	2.32	0.48
1:f4:177:ASP:OD2	1:gG:33:TRP:HZ2	1.96	0.48
1:g4:85:TYR:HE2	1:YG:46:PHE:CD1	2.32	0.48
1:g4:222:SER:OG	1:CD:53:TYR:HD1	1.95	0.48
1:i4:38:LYS:CG	1:CD:220:ARG:O	2.61	0.48
3:A5:63:ARG:HD3	3:A5:145:ASN:HD21	1.78	0.48
4:B5:30:LEU:CB	5:EO:64:TRP:CD1	2.95	0.48
4:B5:90:THR:HB	4:B5:93:ALA:HB3	1.94	0.48
4:B5:150:ASP:O	4:BN:188:ASP:HA	2.13	0.48
5:E5:57:GLU:HG2	4:BH:33:TYR:HE1	1.76	0.48
1:C7:35:PHE:CE1	1:LK:178:TYR:CD1	2.97	0.48
1:C7:58:ILE:HD11	1:hR:87:GLU:HB2	1.95	0.48
1:C7:310:THR:HG21	1:DP:27:HIS:CE1	2.36	0.48
1:I7:45:MET:CE	1:iR:13:LEU:HD11	2.43	0.48
1:J7:242:THR:HG21	1:J7:246:LEU:HD12	1.94	0.48
1:T7:197:LEU:HD13	1:T7:340:LEU:HB3	1.94	0.48
1:Z7:345:LEU:HD11	1:Z7:350:ILE:HD11	1.95	0.48
1:h7:168:GLU:OE2	1:i7:211:ASN:ND2	2.38	0.48
1:Y8:86:SER:HB2	1:a8:60:GLU:HB2	1.95	0.48
1:Y8:177:ASP:OD2	1:bQ:33:TRP:HZ2	1.96	0.48
1:Z8:241:LEU:HD12	1:Z8:271:ILE:HD11	1.93	0.48
1:g8:81:PHE:CE2	1:DD:139:ARG:CD	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g8:82:ILE:HD11	1:DD:144:THR:O	2.13	0.48
5:CB:178:ILE:HD11	5:CB:185:MET:HE3	1.95	0.48
3:AC:197:VAL:HG23	5:EN:37:ASP:OD2	2.11	0.48
5:NC:178:ILE:HD13	5:NC:185:MET:HG2	1.95	0.48
5:OC:178:ILE:HD11	5:OC:185:MET:HE3	1.95	0.48
1:DD:120:LEU:O	1:KS:37:ASP:N	2.45	0.48
1:KD:55:PHE:O	1:KD:57:LYS:NZ	2.41	0.48
1:BE:361:LYS:CE	1:CP:370:ASP:OD2	2.61	0.48
1:SE:86:SER:HB2	1:UE:60:GLU:HB2	1.95	0.48
1:SE:165:VAL:HG11	1:JQ:230:THR:HG21	1.94	0.48
1:SE:279:VAL:HG12	1:SE:318:THR:HA	1.95	0.48
1:bE:230:THR:HG21	1:CR:165:VAL:HG11	1.94	0.48
5:OF:178:ILE:HD11	5:OF:185:MET:HE3	1.95	0.48
2:HG:22:LYS:HG2	1:YL:360:LEU:HD22	1.91	0.48
1:LG:68:LEU:HB2	1:LG:161:SER:HB3	1.94	0.48
1:aG:137:ASP:OD2	1:DK:49:PHE:CB	2.55	0.48
1:gG:209:GLN:NE2	1:gG:235:LEU:HB2	2.28	0.48
3:AH:24:ARG:HD3	3:AH:169:LEU:HB2	1.95	0.48
5:CH:388:LYS:HG3	5:CH:388:LYS:O	2.13	0.48
5:NH:178:ILE:HD13	5:NH:185:MET:HG2	1.95	0.48
5:OH:178:ILE:HD11	5:OH:185:MET:HE3	1.95	0.48
4:BI:192:THR:CB	4:BO:147:THR:HG22	2.43	0.48
5:CI:388:LYS:O	5:CI:388:LYS:HG3	2.13	0.48
1:DJ:126:VAL:HG11	1:LP:25:PHE:HE1	1.48	0.48
1:LJ:33:TRP:CE2	1:CS:174:MET:N	2.81	0.48
1:LJ:240:ILE:HG13	1:LJ:270:VAL:HA	1.94	0.48
1:CK:133:LEU:HD22	2:kR:11:MET:HG3	1.84	0.48
1:LK:49:PHE:HB3	1:KP:137:ASP:OD2	2.13	0.48
1:CL:279:VAL:HG12	1:CL:318:THR:HA	1.95	0.48
1:IL:14:VAL:CB	1:KQ:14:VAL:HG21	2.43	0.48
1:IL:165:VAL:HG11	1:ZR:230:THR:HG21	1.94	0.48
1:IL:259:PHE:HE1	1:ZR:259:PHE:HE1	1.48	0.48
1:LL:325:LYS:NZ	1:LL:325:LYS:CB	2.73	0.48
1:RL:87:GLU:HB2	1:QR:58:ILE:HD11	1.95	0.48
1:gL:197:LEU:HD13	1:gL:340:LEU:HB3	1.94	0.48
4:BM:150:ASP:O	4:BO:188:ASP:HA	2.14	0.48
3:AO:36:LEU:HD23	1:IS:139:ARG:NE	2.26	0.48
4:BO:123:GLN:HB3	4:BO:214:ALA:HB3	1.95	0.48
5:CO:388:LYS:O	5:CO:388:LYS:HG3	2.13	0.48
5:OO:178:ILE:HD13	5:OO:185:MET:HG2	1.95	0.48
1:BP:144:THR:HG23	1:BP:147:ASP:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KP:24:ASP:OD1	1:KP:24:ASP:N	2.46	0.48
1:KP:121:TYR:HB3	1:KP:381:PHE:HZ	1.78	0.48
1:LQ:92:MET:HB2	1:LQ:115:ARG:HB2	1.94	0.48
1:bQ:208:LEU:HD12	1:bQ:391:ILE:HD11	1.89	0.48
1:CR:209:GLN:NE2	1:CR:235:LEU:HB2	2.28	0.48
1:KR:28:ASP:N	1:KR:28:ASP:OD1	2.43	0.48
1:YR:279:VAL:HG12	1:YR:318:THR:HA	1.95	0.48
1:hR:367:PRO:O	1:jR:377:HIS:NE2	2.38	0.48
1:CS:16:LYS:HB2	1:CS:19:LYS:HB2	1.94	0.48
1:C1:177:ASP:OD2	1:Y8:33:TRP:HZ2	1.96	0.48
1:A1:357:LYS:HG2	2:F1:20:LEU:HD12	1.94	0.48
2:H1:53:PHE:O	1:C6:62:LEU:CD1	2.62	0.48
1:I1:58:ILE:HD11	1:JG:87:GLU:HB2	1.95	0.48
1:I1:102:SER:HB3	1:NE:26:ASN:HD22	1.78	0.48
1:K1:129:GLN:NE2	1:K1:159:LYS:O	2.41	0.48
2:P1:31:SER:O	2:U6:45:ILE:HG23	2.13	0.48
1:R1:87:GLU:HB2	1:Q6:58:ILE:HD11	1.95	0.48
1:S1:47:GLU:CG	1:Q8:22:LEU:CB	2.91	0.48
1:T1:143:GLN:C	1:CJ:82:ILE:HG12	2.38	0.48
1:X1:152:ALA:HB2	2:X3:15:TYR:CD2	2.47	0.48
1:Z1:14:VAL:HG21	1:IR:14:VAL:CB	2.43	0.48
1:a1:92:MET:HB2	1:a1:115:ARG:HB2	1.94	0.48
1:f1:14:VAL:CB	1:B3:14:VAL:HG21	2.43	0.48
1:h1:150:ASN:ND2	2:F4:1:MET:N	2.61	0.48
3:A2:51:VAL:HG21	3:A2:299:ILE:HD11	1.95	0.48
4:B2:251:TRP:HZ3	5:E9:39:ASN:HD22	1.61	0.48
5:E2:62:ARG:HH22	5:EB:17:PHE:HB2	1.78	0.48
5:N2:178:ILE:HD13	5:N2:185:MET:HG2	1.95	0.48
1:D3:60:GLU:OE2	1:FE:351:LYS:NZ	2.43	0.48
2:H3:31:SER:O	2:M4:45:ILE:HG23	2.13	0.48
1:K3:129:GLN:NE2	1:K3:159:LYS:O	2.41	0.48
1:K3:259:PHE:C	1:K3:260:GLN:HG2	2.37	0.48
1:Q3:45:MET:CE	1:Z4:13:LEU:HD11	2.43	0.48
1:S3:47:GLU:CG	1:CR:22:LEU:CB	2.91	0.48
1:C4:45:MET:CE	1:BG:13:LEU:HD11	2.43	0.48
1:B4:47:GLU:CG	1:aE:22:LEU:CB	2.91	0.48
1:B4:150:ASN:ND2	2:FR:1:MET:N	2.61	0.48
1:J4:87:GLU:HB2	1:C8:58:ILE:HD11	1.95	0.48
1:Q4:61:THR:CG2	1:h8:89:TYR:CE1	2.94	0.48
1:T4:15:ALA:CB	1:AS:6:THR:HG21	2.43	0.48
1:X4:139:ARG:CD	1:CR:81:PHE:CE2	2.71	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f4:33:TRP:HZ2	1:C6:177:ASP:OD2	1.96	0.48
1:f4:86:SER:HB2	1:h4:60:GLU:HB2	1.95	0.48
1:i4:31:LYS:N	1:CD:314:GLY:C	2.70	0.48
1:i4:141:ASN:ND2	1:BD:54:LEU:HD12	2.28	0.48
2:j4:16:GLU:OE2	1:CD:149:THR:HG21	2.14	0.48
3:A5:114:PHE:CZ	2:MJ:21:ASN:O	2.65	0.48
5:F5:87:GLN:HG3	5:F5:91:LEU:HD23	1.96	0.48
5:N5:388:LYS:HG3	5:N5:388:LYS:O	2.13	0.48
1:C6:22:LEU:CB	1:iG:47:GLU:CG	2.91	0.48
1:C6:49:PHE:CB	1:iG:137:ASP:OD2	2.59	0.48
2:E6:45:ILE:HG23	2:P7:31:SER:O	2.13	0.48
1:I6:45:MET:CE	1:aR:13:LEU:HD11	2.43	0.48
1:J6:357:LYS:HG2	2:N6:20:LEU:HD12	1.94	0.48
1:K6:13:LEU:HD11	1:CL:45:MET:CE	2.43	0.48
1:Q6:136:ASN:HB2	1:LJ:126:VAL:HG11	1.95	0.48
2:c6:45:ILE:HG23	2:PR:31:SER:O	2.13	0.48
1:j6:26:ASN:HD22	1:C8:102:SER:HB3	1.78	0.48
2:H7:22:LYS:HG2	1:gR:360:LEU:HD23	1.89	0.48
1:Q7:14:VAL:CB	1:aL:14:VAL:HG21	2.43	0.48
1:Q7:45:MET:CE	1:aL:13:LEU:HD11	2.43	0.48
1:Q7:165:VAL:HG11	1:RQ:230:THR:HG21	1.94	0.48
1:R7:85:TYR:HE2	1:QQ:46:PHE:CD1	2.31	0.48
1:R7:357:LYS:HG2	2:V7:20:LEU:HD12	1.94	0.48
1:Y7:46:PHE:CD1	1:JR:85:TYR:HE2	2.32	0.48
1:C8:86:SER:HB2	1:B8:60:GLU:HB2	1.95	0.48
2:H8:31:SER:O	2:UR:45:ILE:HG23	2.13	0.48
1:S8:14:VAL:HG21	1:IG:14:VAL:CB	2.43	0.48
1:b8:26:ASN:HD22	1:CR:102:SER:HB3	1.78	0.48
1:j8:60:GLU:OE2	1:LL:351:LYS:NZ	2.43	0.48
3:A9:104:GLN:HG3	1:KK:76:ALA:O	2.13	0.48
4:B9:33:TYR:HE1	5:EC:57:GLU:HG2	1.76	0.48
4:BB:119:GLU:HB2	4:BB:218:GLN:H	1.78	0.48
3:AC:149:GLN:O	1:KP:80:ASP:HB2	2.14	0.48
3:AC:208:LYS:CE	4:BN:251:TRP:CG	2.94	0.48
5:CC:178:ILE:HD13	5:CC:185:MET:HG2	1.95	0.48
1:AD:349:SER:HB2	1:AD:388:PHE:HB2	1.95	0.48
1:DD:174:MET:CA	1:KS:33:TRP:NE1	2.50	0.48
1:KD:33:TRP:CZ3	1:IS:170:GLU:HG2	2.49	0.48
1:KD:121:TYR:HB3	1:KD:381:PHE:HZ	1.78	0.48
1:LD:45:MET:CE	1:KK:19:LYS:HE2	2.44	0.48
1:LD:49:PHE:HB3	1:KK:137:ASP:OD2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FE:15:ALA:CB	1:BP:6:THR:HG21	2.43	0.48
2:HE:8:ARG:NH2	1:CP:131:PHE:HE2	2.11	0.48
2:HE:16:GLU:OE2	1:CP:149:THR:HG21	2.14	0.48
1:KE:209:GLN:NE2	1:KE:235:LEU:HB2	2.28	0.48
1:SE:209:GLN:NE2	1:SE:235:LEU:HB2	2.28	0.48
1:TE:168:GLU:OE2	1:UE:211:ASN:ND2	2.38	0.48
1:aE:165:VAL:HG11	1:AR:230:THR:HG21	1.94	0.48
1:cE:47:GLU:CG	1:CG:22:LEU:CB	2.91	0.48
5:EF:64:TRP:HE1	4:BO:29:LYS:CA	2.25	0.48
1:AG:168:GLU:OE2	1:BG:211:ASN:ND2	2.38	0.48
2:MG:45:ILE:HG23	2:PQ:31:SER:O	2.13	0.48
1:gG:46:PHE:CD1	1:AL:85:TYR:HE2	2.31	0.48
1:hG:87:GLU:HB2	1:CL:58:ILE:HD11	1.95	0.48
1:hG:230:THR:HG21	1:CL:165:VAL:HG11	1.94	0.48
5:FH:31:PHE:CD2	5:FN:46:TYR:CD1	3.01	0.48
3:AI:104:GLN:NE2	2:MJ:19:ARG:CG	2.61	0.48
4:BI:119:GLU:HB2	4:BI:218:GLN:H	1.78	0.48
1:AJ:110:LYS:O	1:LJ:130:LYS:NZ	2.42	0.48
1:BJ:139:ARG:CG	1:gL:81:PHE:CE2	2.95	0.48
1:KJ:15:ALA:C	1:LP:45:MET:HE1	2.15	0.48
1:KJ:98:ASN:HD22	1:JS:29:TYR:C	2.22	0.48
1:KJ:144:THR:N	1:AP:82:ILE:CD1	2.74	0.48
1:KJ:374:HIS:CG	2:MP:8:ARG:NH2	2.81	0.48
1:CK:21:ALA:HB1	1:hR:123:ASN:ND2	2.21	0.48
1:CK:367:PRO:CG	1:hR:375:TRP:CZ3	2.94	0.48
1:LK:45:MET:CE	1:KP:19:LYS:HE2	2.44	0.48
1:IL:22:LEU:CB	1:KQ:47:GLU:CG	2.91	0.48
1:IL:279:VAL:HG12	1:IL:318:THR:HA	1.95	0.48
1:QL:208:LEU:HD12	1:QL:391:ILE:HD11	1.89	0.48
5:CM:388:LYS:O	5:CM:388:LYS:HG3	2.13	0.48
5:NM:178:ILE:HD11	5:NM:185:MET:HE3	1.95	0.48
5:NM:388:LYS:HG3	5:NM:388:LYS:O	2.13	0.48
3:AN:63:ARG:HD3	3:AN:145:ASN:HD21	1.78	0.48
1:BQ:13:LEU:HD11	1:gR:45:MET:CE	2.43	0.48
1:SQ:129:GLN:NE2	1:SQ:159:LYS:O	2.41	0.48
1:eQ:60:GLU:OE2	1:jR:351:LYS:NZ	2.43	0.48
2:MS:12:GLY:C	2:MS:14:SER:H	2.20	0.48
1:C1:62:LEU:CD1	2:H6:53:PHE:O	2.62	0.48
1:D1:92:MET:HB2	1:D1:115:ARG:HB2	1.94	0.48
2:E1:45:ILE:HG23	2:HL:31:SER:O	2.13	0.48
1:I1:86:SER:HB2	1:K1:60:GLU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:167:GLU:OE2	1:I1:352:TYR:OH	2.26	0.48
1:L1:92:MET:HB2	1:L1:115:ARG:HB2	1.94	0.48
1:Q1:102:SER:HB3	1:L3:26:ASN:HD22	1.78	0.48
1:R1:222:SER:OG	1:CJ:53:TYR:HD1	1.95	0.48
1:R1:345:LEU:HD11	1:R1:350:ILE:HD11	1.95	0.48
1:S1:13:LEU:HD11	1:Q8:45:MET:CE	2.43	0.48
1:T1:29:TYR:O	1:CJ:315:ALA:HB2	2.12	0.48
2:U1:11:MET:CE	1:CJ:372:VAL:HG11	2.26	0.48
1:X1:45:MET:CE	1:K8:13:LEU:HD11	2.43	0.48
2:e1:9:SER:HB2	1:CL:363:PRO:HG2	1.95	0.48
1:f1:22:LEU:CB	1:B3:47:GLU:CG	2.91	0.48
1:i1:325:LYS:NZ	1:i1:325:LYS:CB	2.73	0.48
2:m1:15:TYR:CD2	1:gR:152:ALA:HB2	2.47	0.48
2:m1:31:SER:O	2:E7:45:ILE:HG23	2.13	0.48
3:A2:176:MET:HE3	3:AB:201:TYR:OH	2.13	0.48
5:E2:44:SER:OG	4:BB:4:TYR:HB3	2.12	0.48
5:F2:105:ILE:O	5:F2:110:LYS:HB2	2.13	0.48
1:C3:300:TYR:CA	1:h7:115:ARG:NH2	2.75	0.48
1:I3:45:MET:CE	1:SL:13:LEU:HD11	2.43	0.48
1:I3:58:ILE:HD11	1:R8:87:GLU:HB2	1.95	0.48
1:I3:63:LEU:HD13	1:R8:89:TYR:HE2	1.71	0.48
1:Q3:21:ALA:HB3	1:Z4:47:GLU:O	2.12	0.48
1:R3:259:PHE:HD1	1:S3:259:PHE:CE2	2.32	0.48
2:c3:45:ILE:HG13	2:c3:46:HIS:H	1.66	0.48
1:C4:208:LEU:CD1	1:C4:391:ILE:HD12	1.95	0.48
1:I4:279:VAL:HG12	1:I4:318:THR:HA	1.94	0.48
1:R4:222:SER:HA	1:BS:38:LYS:CE	1.91	0.48
1:a4:325:LYS:NZ	1:a4:325:LYS:CB	2.73	0.48
1:f4:279:VAL:HG12	1:f4:318:THR:HA	1.94	0.48
1:g4:222:SER:C	1:CD:38:LYS:CE	2.77	0.48
1:g4:241:LEU:HD12	1:g4:271:ILE:HD11	1.93	0.48
1:h4:13:LEU:HD11	1:gG:45:MET:CE	2.43	0.48
1:i4:143:GLN:C	1:CD:82:ILE:HG12	2.38	0.48
1:i4:153:LEU:HD21	2:HD:4:GLY:CA	2.31	0.48
1:i4:325:LYS:NZ	1:i4:325:LYS:CB	2.73	0.48
3:A5:208:LYS:CE	4:BO:251:TRP:CG	2.94	0.48
5:E5:17:PHE:HB2	5:EI:62:ARG:HH22	1.78	0.48
1:A6:357:LYS:HG2	2:F6:20:LEU:HD12	1.94	0.48
1:L6:351:LYS:NZ	1:jG:60:GLU:OE2	2.43	0.48
1:S6:17:SER:HA	1:CS:44:THR:O	2.13	0.48
1:Z6:357:LYS:HG2	2:d6:20:LEU:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:13:LEU:C	1:CP:45:MET:SD	2.92	0.48
1:D7:92:MET:HB2	1:D7:115:ARG:HB2	1.94	0.48
1:I7:46:PHE:CD1	1:cQ:85:TYR:HE2	2.31	0.48
1:I7:165:VAL:HG11	1:cQ:230:THR:HG21	1.94	0.48
1:J7:85:TYR:HE2	1:bQ:46:PHE:CD1	2.31	0.48
1:K7:47:GLU:CG	1:CQ:22:LEU:CB	2.91	0.48
1:Q7:21:ALA:HB3	1:aL:47:GLU:O	2.12	0.48
1:R7:200:LYS:HA	1:R7:203:GLU:HG3	1.96	0.48
1:Y7:177:ASP:OD2	1:KE:33:TRP:HZ2	1.96	0.48
1:b7:197:LEU:HD13	1:b7:340:LEU:HB3	1.94	0.48
1:g7:209:GLN:NE2	1:g7:235:LEU:HB2	2.28	0.48
1:g7:279:VAL:HG12	1:g7:318:THR:HA	1.95	0.48
1:g7:375:TRP:CZ3	1:C8:367:PRO:HG3	2.47	0.48
1:h7:345:LEU:HD11	1:h7:350:ILE:HD11	1.95	0.48
1:D8:92:MET:HB2	1:D8:115:ARG:HB2	1.94	0.48
2:P8:31:SER:O	2:eE:45:ILE:HG23	2.13	0.48
1:Q8:86:SER:HB2	1:S8:60:GLU:HB2	1.95	0.48
1:S8:129:GLN:NE2	1:S8:159:LYS:O	2.41	0.48
1:a8:13:LEU:HD11	1:bQ:45:MET:CE	2.43	0.48
1:b8:325:LYS:NZ	1:b8:325:LYS:CB	2.73	0.48
1:i8:46:PHE:HZ	1:DD:39:TRP:CZ3	2.30	0.48
2:l8:1:MET:N	1:KL:150:ASN:ND2	2.61	0.48
3:A9:24:ARG:HD3	3:A9:169:LEU:HB2	1.95	0.48
4:B9:4:TYR:HB3	5:EA:44:SER:OG	2.12	0.48
5:EB:39:ASN:HD22	4:BF:251:TRP:HZ3	1.61	0.48
5:OB:388:LYS:HG3	5:OB:388:LYS:O	2.13	0.48
5:NC:178:ILE:HD11	5:NC:185:MET:HE3	1.95	0.48
5:NC:388:LYS:HG3	5:NC:388:LYS:O	2.13	0.48
1:BD:144:THR:HG23	1:BD:147:ASP:H	1.78	0.48
1:CD:41:ASN:ND2	1:CD:46:PHE:O	2.47	0.48
1:DD:239:VAL:HG11	2:GD:48:LEU:HG	1.94	0.48
1:LD:174:MET:HE2	1:YG:32:SER:HB2	1.95	0.48
1:DE:68:LEU:HB2	1:DE:161:SER:HB3	1.94	0.48
1:BE:123:ASN:ND2	1:CP:21:ALA:HB1	2.21	0.48
1:KE:167:GLU:OE2	1:KE:352:TYR:OH	2.26	0.48
1:TE:345:LEU:HD11	1:TE:350:ILE:HD11	1.95	0.48
2:WE:45:ILE:CG1	2:WE:46:HIS:H	2.23	0.48
3:AF:51:VAL:HG21	3:AF:299:ILE:HD11	1.95	0.48
5:CF:178:ILE:HD13	5:CF:185:MET:HG2	1.95	0.48
1:RG:345:LEU:HD11	1:RG:350:ILE:HD11	1.95	0.48
1:gG:86:SER:HB2	1:iG:60:GLU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hG:85:TYR:HE2	1:CL:46:PHE:CD1	2.31	0.48
1:hG:242:THR:HG21	1:hG:246:LEU:HD12	1.94	0.48
1:hG:259:PHE:HD1	1:iG:259:PHE:CE2	2.32	0.48
4:BH:4:TYR:HB3	5:EN:44:SER:OG	2.12	0.48
5:CH:178:ILE:HD11	5:CH:185:MET:HE3	1.95	0.48
5:FI:31:PHE:CZ	5:FO:47:ASP:N	2.68	0.48
5:NI:178:ILE:HD13	5:NI:185:MET:HG2	1.94	0.48
1:DJ:174:MET:N	1:LP:33:TRP:CE2	2.81	0.48
1:KJ:19:LYS:HE2	1:LP:45:MET:CE	2.44	0.48
1:KJ:29:TYR:C	1:KP:98:ASN:HD22	2.22	0.48
1:LJ:49:PHE:HB3	1:JS:137:ASP:OD2	2.13	0.48
1:LJ:185:GLU:HA	1:LJ:188:VAL:HG12	1.95	0.48
1:AK:170:GLU:CD	1:KP:32:SER:HG	2.18	0.48
1:AK:290:ASN:N	1:AK:326:GLU:OE2	2.38	0.48
1:BK:172:ARG:HA	1:BK:175:LEU:HD23	1.96	0.48
1:AL:242:THR:HG21	1:AL:246:LEU:HD12	1.94	0.48
1:YL:139:ARG:HD2	1:QR:81:PHE:HE2	1.63	0.48
1:bL:92:MET:HB2	1:bL:115:ARG:HB2	1.94	0.48
3:AM:112:ILE:CG2	2:LS:17:ASP:HB3	2.40	0.48
5:DM:30:PRO:HB3	1:IS:140:PHE:HD2	1.59	0.48
5:OM:178:ILE:HD11	5:OM:185:MET:HE3	1.95	0.48
4:BN:119:GLU:HB2	4:BN:218:GLN:H	1.78	0.48
1:BP:290:ASN:ND2	1:BP:325:LYS:HZ1	2.11	0.48
1:KP:285:GLU:HG3	1:KP:313:VAL:HG13	1.93	0.48
2:MP:31:SER:HA	2:MP:35:ASN:HB3	1.93	0.48
1:BQ:28:ASP:N	1:BQ:28:ASP:OD1	2.42	0.48
1:YQ:81:PHE:HD2	1:AS:139:ARG:CD	2.12	0.48
2:aQ:2:TYR:HE2	1:AS:157:LYS:HE3	1.78	0.48
1:bQ:86:SER:HB2	1:dQ:60:GLU:HB2	1.95	0.48
1:cQ:242:THR:HG21	1:cQ:246:LEU:HD12	1.94	0.48
1:cQ:259:PHE:HD1	1:dQ:259:PHE:CE2	2.32	0.48
1:DR:92:MET:HB2	1:DR:115:ARG:HB2	1.94	0.48
1:YR:86:SER:HB2	1:aR:60:GLU:HB2	1.95	0.48
2:LS:8:ARG:HH11	2:LS:10:MET:H	1.61	0.48
1:C1:206:LEU:HD12	1:C1:206:LEU:O	2.14	0.48
1:C1:209:GLN:NE2	1:C1:235:LEU:HB2	2.28	0.48
1:B1:150:ASN:ND2	2:c4:1:MET:N	2.61	0.48
1:I1:45:MET:CE	1:UE:13:LEU:HD11	2.43	0.48
2:P1:55:GLY:HA3	2:P3:2:TYR:HB2	1.94	0.48
1:Q1:45:MET:CE	1:KG:13:LEU:HD11	2.43	0.48
1:T1:29:TYR:C	1:CJ:315:ALA:HB1	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U1:16:GLU:OE2	1:CJ:149:THR:HG21	2.14	0.48
1:X1:14:VAL:CB	1:K8:14:VAL:HG21	2.43	0.48
2:b1:45:ILE:HG23	2:PL:31:SER:O	2.13	0.48
1:h1:13:LEU:HD11	1:QG:45:MET:CE	2.43	0.48
2:k1:1:MET:H3	1:K7:150:ASN:HD21	1.57	0.48
3:A2:154:ILE:HA	3:A2:157:ILE:HG22	1.94	0.48
5:E2:46:TYR:CE2	4:BB:6:MET:SD	3.07	0.48
1:C3:22:LEU:CB	1:SG:47:GLU:CG	2.91	0.48
1:I3:86:SER:HB2	1:K3:60:GLU:HB2	1.95	0.48
1:I3:165:VAL:HG11	1:R8:230:THR:HG21	1.94	0.48
1:I3:177:ASP:OD2	1:I4:33:TRP:HZ2	1.96	0.48
1:J3:87:GLU:HB2	1:Q8:58:ILE:HD11	1.95	0.48
1:J3:115:ARG:NH2	1:Q8:300:TYR:CA	2.75	0.48
1:R3:357:LYS:HG2	2:V3:20:LEU:HD12	1.94	0.48
1:S3:14:VAL:HG21	1:CR:14:VAL:CB	2.43	0.48
2:X3:31:SER:O	2:M6:45:ILE:HG23	2.13	0.48
1:Y3:92:MET:HB2	1:Y3:115:ARG:HB2	1.94	0.48
1:C4:46:PHE:CD1	1:RG:85:TYR:HE2	2.32	0.48
1:A4:89:TYR:CE1	1:QG:61:THR:CG2	2.94	0.48
1:B4:14:VAL:HG21	1:aE:14:VAL:CB	2.43	0.48
1:K4:47:GLU:CG	1:QL:22:LEU:CB	2.91	0.48
1:L4:92:MET:HB2	1:L4:115:ARG:HB2	1.94	0.48
2:P4:31:SER:O	2:k6:45:ILE:HG23	2.13	0.48
1:Q4:102:SER:HB3	1:VE:26:ASN:HD22	1.78	0.48
1:R4:83:GLY:N	1:BS:139:ARG:O	2.45	0.48
1:R4:85:TYR:HE2	1:g8:46:PHE:CD1	2.32	0.48
1:R4:87:GLU:HB2	1:g8:58:ILE:HD11	1.95	0.48
1:R4:345:LEU:HD11	1:R4:350:ILE:HD11	1.95	0.48
1:Y4:87:GLU:HB2	1:Y8:58:ILE:HD11	1.95	0.48
1:Y4:89:TYR:CE1	1:Y8:61:THR:CG2	2.94	0.48
2:j4:8:ARG:NH2	1:CD:131:PHE:HE2	2.11	0.48
2:l4:22:LYS:HG2	1:YG:360:LEU:HD22	1.91	0.48
3:A5:116:VAL:CA	2:MJ:21:ASN:CG	2.76	0.48
3:A5:197:VAL:HG23	5:EO:37:ASP:OD2	2.11	0.48
4:B5:32:PHE:CE1	5:FO:51:ARG:CD	2.90	0.48
5:E5:46:TYR:CE2	4:BN:6:MET:SD	3.07	0.48
1:C6:139:ARG:CD	1:gG:81:PHE:CE2	2.71	0.48
1:C6:206:LEU:HD12	1:C6:206:LEU:O	2.14	0.48
1:D6:92:MET:HB2	1:D6:115:ARG:HB2	1.94	0.48
1:I6:33:TRP:HZ2	1:YR:177:ASP:OD2	1.96	0.48
1:I6:152:ALA:HB2	2:PL:15:TYR:CD2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J6:259:PHE:HD1	1:K6:259:PHE:CE2	2.32	0.48
1:i6:17:SER:HA	1:DJ:44:THR:O	2.13	0.48
1:C7:38:LYS:CD	1:LK:222:SER:CA	2.55	0.48
1:I7:209:GLN:NE2	1:I7:235:LEU:HB2	2.28	0.48
1:J7:230:THR:HG21	1:bQ:165:VAL:HG11	1.94	0.48
1:K7:14:VAL:HG21	1:CQ:14:VAL:HG23	1.94	0.48
1:Q7:46:PHE:CD1	1:RQ:85:TYR:HE2	2.31	0.48
1:S7:47:GLU:CG	1:QR:22:LEU:CB	2.91	0.48
2:X7:31:SER:O	2:MR:45:ILE:HG23	2.13	0.48
1:Y7:86:SER:HB2	1:a7:60:GLU:HB2	1.95	0.48
1:Z7:85:TYR:HH	1:IR:46:PHE:HD1	1.61	0.48
1:j7:92:MET:HB2	1:j7:115:ARG:HB2	1.94	0.48
1:C8:279:VAL:HG12	1:C8:318:THR:HA	1.95	0.48
1:A8:345:LEU:HD11	1:A8:350:ILE:HD11	1.95	0.48
1:B8:13:LEU:HD11	1:AE:45:MET:CE	2.43	0.48
1:I8:22:LEU:CB	1:KR:47:GLU:CG	2.91	0.48
1:I8:86:SER:HB2	1:K8:60:GLU:HB2	1.95	0.48
1:J8:242:THR:HG21	1:J8:246:LEU:HD12	1.94	0.48
1:L8:92:MET:HB2	1:L8:115:ARG:HB2	1.94	0.48
1:Q8:177:ASP:OD2	1:IG:33:TRP:HZ2	1.96	0.48
1:R8:200:LYS:HA	1:R8:203:GLU:HG3	1.96	0.48
2:n8:9:SER:HB2	1:IQ:363:PRO:HG2	1.95	0.48
4:B9:119:GLU:HB2	4:B9:218:GLN:H	1.78	0.48
5:NB:178:ILE:HD13	5:NB:185:MET:HG2	1.95	0.48
4:BC:6:MET:SD	5:EH:46:TYR:CE2	3.07	0.48
5:EC:10:TYR:CZ	5:EH:66:TYR:HB2	2.31	0.48
5:EC:17:PHE:HB2	5:EH:62:ARG:HH22	1.78	0.48
1:AD:145:LEU:HG	3:AF:37:GLU:CB	2.43	0.48
1:DD:16:LYS:HB2	1:DD:19:LYS:HB2	1.94	0.48
1:KD:53:TYR:HD1	1:IS:222:SER:OG	1.95	0.48
1:KD:369:PHE:CE2	1:JS:107:LEU:CB	2.77	0.48
1:LD:240:ILE:HG13	1:LD:270:VAL:HA	1.94	0.48
1:DE:81:PHE:CE2	1:BP:139:ARG:CG	2.95	0.48
1:DE:82:ILE:CD1	1:BP:145:LEU:CD2	2.86	0.48
1:BE:222:SER:OG	1:CP:53:TYR:HD1	1.95	0.48
1:BE:357:LYS:HG2	2:HE:20:LEU:HD12	1.94	0.48
2:HE:11:MET:HG2	1:CP:133:LEU:HB2	1.95	0.48
2:OE:45:ILE:HG23	2:PG:31:SER:O	2.13	0.48
1:SE:58:ILE:HD11	1:JQ:87:GLU:HB2	1.95	0.48
1:TE:115:ARG:NH2	1:IQ:300:TYR:CA	2.75	0.48
2:ZE:31:SER:O	2:cR:45:ILE:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YG:206:LEU:HD12	1:YG:206:LEU:O	2.14	0.48
5:EH:17:PHE:HB2	5:EN:62:ARG:HH22	1.78	0.48
5:FH:105:ILE:O	5:FH:110:LYS:HB2	2.13	0.48
4:BI:6:MET:SD	5:EO:46:TYR:CE2	3.07	0.48
5:CI:178:ILE:HD11	5:CI:185:MET:HE3	1.95	0.48
5:CI:275:ASN:CG	5:OO:355:GLN:OE1	2.55	0.48
1:DJ:174:MET:O	1:LP:35:PHE:CE1	2.65	0.48
1:KJ:55:PHE:O	1:KJ:57:LYS:NZ	2.41	0.48
1:KJ:137:ASP:OD2	1:LP:49:PHE:HB3	2.13	0.48
1:LJ:365:HIS:CE1	1:CS:362:PRO:CD	2.94	0.48
1:BK:54:LEU:HD12	1:jR:141:ASN:ND2	2.28	0.48
2:EK:45:ILE:HD11	2:HK:31:SER:HB3	1.95	0.48
1:LK:369:PHE:HB2	1:BP:108:MET:HE1	1.95	0.48
2:MK:8:ARG:HH11	2:MK:10:MET:H	1.61	0.48
1:BL:14:VAL:HG21	1:YR:14:VAL:HG23	1.94	0.48
1:BL:47:GLU:CG	1:YR:22:LEU:CB	2.91	0.48
1:RL:345:LEU:HD11	1:RL:350:ILE:HD11	1.95	0.48
1:YL:209:GLN:NE2	1:YL:235:LEU:HB2	2.28	0.48
1:ZL:345:LEU:HD11	1:ZL:350:ILE:HD11	1.96	0.48
1:bL:351:LYS:NZ	1:TQ:60:GLU:OE2	2.43	0.48
3:AM:116:VAL:C	2:LS:7:MET:HE1	1.17	0.48
4:BM:119:GLU:HB2	4:BM:218:GLN:H	1.78	0.48
5:EM:39:ASN:HD22	4:BO:251:TRP:HZ3	1.61	0.48
5:FN:87:GLN:HG3	5:FN:91:LEU:HD23	1.96	0.48
5:NO:178:ILE:HD11	5:NO:185:MET:HE3	1.95	0.48
1:BP:104:ASN:ND2	1:BP:106:GLU:OE2	2.46	0.48
1:CQ:86:SER:HB2	1:BQ:60:GLU:HB2	1.95	0.48
1:AR:200:LYS:HA	1:AR:203:GLU:HG3	1.96	0.48
1:JR:242:THR:HG21	1:JR:246:LEU:HD12	1.94	0.48
1:JR:357:LYS:HG2	2:NR:20:LEU:HD12	1.94	0.48
1:hR:200:LYS:HA	1:hR:203:GLU:HG3	1.96	0.48
1:hR:357:LYS:HG2	2:kR:20:LEU:HD12	1.94	0.48
1:AS:144:THR:HG23	1:AS:147:ASP:H	1.77	0.48
1:BS:174:MET:HG2	1:BS:382:LYS:HD3	1.95	0.48
1:CS:258:THR:HG23	1:JS:256:ALA:HB1	1.95	0.48
2:H1:9:SER:HB2	1:f4:363:PRO:HG2	1.95	0.48
1:I1:279:VAL:HG12	1:I1:318:THR:HA	1.95	0.48
1:I1:367:PRO:HG3	1:SE:375:TRP:CZ3	2.47	0.48
1:K1:13:LEU:HD11	1:Y6:45:MET:CE	2.43	0.48
1:Q1:22:LEU:CB	1:KG:47:GLU:CG	2.91	0.48
1:Q1:62:LEU:CD1	2:X6:53:PHE:O	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R1:222:SER:C	1:CJ:38:LYS:CE	2.77	0.48
1:X1:86:SER:HB2	1:Z1:60:GLU:HB2	1.95	0.48
1:X1:209:GLN:NE2	1:X1:235:LEU:HB2	2.28	0.48
1:f1:58:ILE:HD11	1:AQ:87:GLU:HB2	1.95	0.48
1:f1:177:ASP:OD2	1:QG:33:TRP:HZ2	1.96	0.48
1:f1:259:PHE:HE1	1:AQ:259:PHE:HE1	1.48	0.48
1:g1:200:LYS:HA	1:g1:203:GLU:HG3	1.96	0.48
1:g1:357:LYS:HG2	2:k1:20:LEU:HD12	1.94	0.48
2:m1:55:GLY:HA3	2:iQ:2:TYR:HB2	1.94	0.48
1:C3:363:PRO:HG2	2:H4:9:SER:HB2	1.95	0.48
1:A3:87:GLU:HB2	1:g7:58:ILE:HD11	1.95	0.48
1:I3:46:PHE:CD1	1:R8:85:TYR:HE2	2.32	0.48
1:J3:85:TYR:HE2	1:Q8:46:PHE:CD1	2.32	0.48
1:J3:200:LYS:HA	1:J3:203:GLU:HG3	1.96	0.48
1:J3:230:THR:HG21	1:Q8:165:VAL:HG11	1.94	0.48
1:R3:200:LYS:HA	1:R3:203:GLU:HG3	1.96	0.48
2:a3:2:TYR:HE2	1:BK:157:LYS:HE3	1.78	0.48
1:C4:58:ILE:HD11	1:RG:87:GLU:HB2	1.95	0.48
1:A4:85:TYR:HE2	1:QG:46:PHE:CD1	2.32	0.48
1:I4:46:PHE:CD1	1:A8:85:TYR:HE2	2.31	0.48
1:K4:13:LEU:HD11	1:QL:45:MET:CE	2.43	0.48
1:Q4:45:MET:CE	1:KL:13:LEU:HD11	2.43	0.48
1:Q4:46:PHE:CD1	1:h8:85:TYR:HE2	2.32	0.48
1:R4:382:LYS:O	1:BS:33:TRP:HA	2.13	0.48
1:S4:47:GLU:CG	1:IQ:22:LEU:CB	2.91	0.48
1:T4:325:LYS:NZ	1:T4:325:LYS:CB	2.73	0.48
2:U4:16:GLU:OE2	1:BS:149:THR:HG21	2.14	0.48
1:X4:102:SER:HB3	1:L8:26:ASN:HD22	1.78	0.48
1:X4:206:LEU:HD12	1:X4:206:LEU:O	2.14	0.48
1:f4:46:PHE:CD1	1:ZG:85:TYR:HE2	2.31	0.48
1:f4:206:LEU:HD12	1:f4:206:LEU:O	2.14	0.48
4:B5:6:MET:SD	5:EI:46:TYR:CE2	3.07	0.48
5:D5:132:ASN:HA	5:D5:135:LYS:HZ1	1.79	0.48
5:O5:388:LYS:O	5:O5:388:LYS:HG3	2.13	0.48
1:C6:209:GLN:NE2	1:C6:235:LEU:HB2	2.28	0.48
1:A6:259:PHE:HD1	1:B6:259:PHE:CE2	2.32	0.48
1:B6:150:ASN:ND2	2:dG:1:MET:N	2.61	0.48
1:I6:367:PRO:HG3	1:YR:375:TRP:CZ3	2.47	0.48
1:J6:200:LYS:HA	1:J6:203:GLU:HG3	1.96	0.48
1:J6:367:PRO:O	1:L6:377:HIS:NE2	2.38	0.48
1:L6:68:LEU:HB2	1:L6:161:SER:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z6:242:THR:HG21	1:Z6:246:LEU:HD12	1.94	0.48
1:C7:86:SER:HB2	1:B7:60:GLU:HB2	1.95	0.48
2:H7:9:SER:HB2	1:I7:363:PRO:HG2	1.95	0.48
1:I7:300:TYR:CA	1:cQ:115:ARG:NH2	2.75	0.48
1:Q7:177:ASP:OD2	1:QR:33:TRP:HZ2	1.96	0.48
1:Q7:208:LEU:HD12	1:Q7:391:ILE:HD11	1.89	0.48
1:Z7:85:TYR:HE2	1:IR:46:PHE:CD1	2.32	0.48
1:b7:68:LEU:HB2	1:b7:161:SER:HB3	1.94	0.48
1:g7:22:LEU:CB	1:CE:47:GLU:CG	2.91	0.48
1:i7:13:LEU:HD11	1:C8:45:MET:CE	2.43	0.48
2:E8:45:ILE:CG1	2:E8:46:HIS:H	2.23	0.48
1:J8:345:LEU:HD11	1:J8:350:ILE:HD11	1.95	0.48
2:P8:55:GLY:HA3	2:f8:2:TYR:HB2	1.94	0.48
1:S8:14:VAL:HG21	1:IG:14:VAL:HG23	1.94	0.48
1:T8:26:ASN:HD22	1:QL:102:SER:HB3	1.78	0.48
1:Y8:279:VAL:HG12	1:Y8:318:THR:HA	1.94	0.48
1:g8:28:ASP:CA	1:IS:100:ASP:OD2	2.60	0.48
5:F9:87:GLN:HG3	5:F9:91:LEU:HD23	1.96	0.48
3:AB:53:ILE:HD11	3:AB:70:VAL:HG21	1.95	0.48
4:BB:147:THR:HG22	4:BF:192:THR:CB	2.43	0.48
3:AC:208:LYS:C	4:BN:250:ILE:HD12	2.30	0.48
3:AC:308:THR:HG21	3:AH:300:LYS:NZ	2.28	0.48
5:FC:105:ILE:O	5:FC:110:LYS:HB2	2.13	0.48
1:AD:178:TYR:HB2	1:KK:35:PHE:CE1	2.47	0.48
1:DD:258:THR:HG23	1:KD:256:ALA:HB1	1.95	0.48
1:KD:87:GLU:HB3	1:KD:120:LEU:HA	1.96	0.48
1:DE:197:LEU:HD13	1:DE:340:LEU:HB3	1.94	0.48
1:VE:92:MET:HB2	1:VE:115:ARG:HB2	1.94	0.48
1:aE:208:LEU:HD12	1:aE:391:ILE:HD11	1.89	0.48
1:bE:87:GLU:HB2	1:CR:58:ILE:HD11	1.95	0.48
3:AF:53:ILE:HD11	3:AF:70:VAL:HG21	1.95	0.48
3:AF:300:LYS:NZ	3:AM:308:THR:HG21	2.28	0.48
4:BF:119:GLU:HB2	4:BF:218:GLN:H	1.78	0.48
5:FF:87:GLN:HG3	5:FF:91:LEU:HD23	1.96	0.48
1:AG:241:LEU:HD12	1:AG:271:ILE:HD11	1.93	0.48
1:IG:279:VAL:HG12	1:IG:318:THR:HA	1.94	0.48
1:JG:242:THR:HG21	1:JG:246:LEU:HD12	1.94	0.48
1:LG:92:MET:HB2	1:LG:115:ARG:HB2	1.94	0.48
1:TG:325:LYS:NZ	1:TG:325:LYS:CB	2.73	0.48
1:gG:165:VAL:HG11	1:AL:230:THR:HG21	1.94	0.48
1:gG:208:LEU:HD12	1:gG:391:ILE:HD11	1.89	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hG:115:ARG:NH2	1:CL:300:TYR:CA	2.75	0.48
4:BH:6:MET:SD	5:EN:46:TYR:CE2	3.07	0.48
5:FH:27:ARG:HH11	5:DN:26:GLU:CG	2.27	0.48
5:FH:29:THR:CB	5:DN:24:THR:OG1	2.60	0.48
5:OH:178:ILE:HD13	5:OH:185:MET:HG2	1.95	0.48
4:BI:188:ASP:HA	4:BO:150:ASP:O	2.14	0.48
5:FI:87:GLN:HG3	5:FI:91:LEU:HD23	1.96	0.48
1:AJ:362:PRO:HD2	1:JS:365:HIS:CE1	2.48	0.48
1:BJ:168:GLU:OE1	1:CJ:211:ASN:ND2	2.44	0.48
1:KJ:143:GLN:OE1	1:LP:57:LYS:HD2	1.85	0.48
1:KJ:365:HIS:CE1	1:AP:362:PRO:HD2	2.48	0.48
1:LJ:57:LYS:HZ1	1:JS:61:THR:HG21	1.76	0.48
1:CK:28:ASP:C	1:iR:98:ASN:HB3	2.27	0.48
1:CK:82:ILE:HG12	1:jR:143:GLN:C	2.38	0.48
1:CK:139:ARG:HD2	1:hR:81:PHE:O	2.13	0.48
1:CK:149:THR:HG21	2:kR:16:GLU:OE2	2.14	0.48
1:CL:209:GLN:NE2	1:CL:235:LEU:HB2	2.28	0.48
1:IL:58:ILE:HD11	1:ZR:87:GLU:HB2	1.95	0.48
1:JL:200:LYS:HA	1:JL:203:GLU:HG3	1.96	0.48
1:JL:357:LYS:HG2	2:NL:20:LEU:HD12	1.94	0.48
1:QL:62:LEU:CD1	2:XR:53:PHE:O	2.62	0.48
1:YL:33:TRP:HZ2	1:QR:177:ASP:OD2	1.96	0.48
5:EM:13:ASP:N	5:EM:13:ASP:OD1	2.45	0.48
5:FM:105:ILE:O	5:FM:110:LYS:HB2	2.13	0.48
5:FN:105:ILE:O	5:FN:110:LYS:HB2	2.13	0.48
3:AO:157:ILE:CG2	1:IS:145:LEU:CD2	2.76	0.48
4:BO:119:GLU:HB2	4:BO:218:GLN:H	1.78	0.48
1:AP:279:VAL:HG12	1:AP:318:THR:HA	1.95	0.48
1:CQ:177:ASP:OD2	1:gR:33:TRP:HZ2	1.96	0.48
1:CQ:209:GLN:NE2	1:CQ:235:LEU:HB2	2.28	0.48
1:IQ:209:GLN:NE2	1:IQ:235:LEU:HB2	2.28	0.48
1:RQ:168:GLU:OE2	1:SQ:211:ASN:ND2	2.38	0.48
1:YR:209:GLN:NE2	1:YR:235:LEU:HB2	2.28	0.48
1:hR:259:PHE:HD1	1:iR:259:PHE:CE2	2.32	0.48
1:A1:259:PHE:HD1	1:B1:259:PHE:CE2	2.32	0.48
1:I1:363:PRO:HG2	2:PQ:9:SER:HB2	1.95	0.48
1:J1:345:LEU:HD11	1:J1:350:ILE:HD11	1.95	0.48
1:S1:14:VAL:HG21	1:Q8:14:VAL:CB	2.43	0.48
1:S1:105:GLU:O	1:LJ:109:LEU:CD2	2.36	0.48
2:W1:31:SER:O	2:ZQ:45:ILE:HG23	2.13	0.48
1:Y1:85:TYR:HE2	1:I6:46:PHE:CD1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i1:60:GLU:OE2	1:L7:351:LYS:NZ	2.43	0.48
1:C3:45:MET:CE	1:SG:13:LEU:HD11	2.43	0.48
1:I3:300:TYR:CA	1:R8:115:ARG:NH2	2.75	0.48
1:K3:14:VAL:HG21	1:I4:14:VAL:HG23	1.94	0.48
2:V3:1:MET:N	1:KR:150:ASN:ND2	2.61	0.48
2:X3:55:GLY:HA3	2:f7:2:TYR:HB2	1.94	0.48
1:J4:242:THR:HG21	1:J4:246:LEU:HD12	1.94	0.48
1:Q4:33:TRP:HZ2	1:IL:177:ASP:OD2	1.96	0.48
1:Q4:206:LEU:HD12	1:Q4:206:LEU:O	2.14	0.48
1:R4:223:GLY:CA	1:BS:53:TYR:CD1	2.92	0.48
1:R4:242:THR:HG21	1:R4:246:LEU:HD12	1.94	0.48
1:T4:27:HIS:CG	1:BS:312:PRO:CG	2.96	0.48
2:U4:8:ARG:NH2	1:BS:131:PHE:CE2	2.82	0.48
1:X4:360:LEU:HD22	2:f8:22:LYS:HG2	1.91	0.48
1:Y4:85:TYR:HE2	1:Y8:46:PHE:CD1	2.31	0.48
1:Z4:365:HIS:HD2	2:N8:10:MET:HG2	1.79	0.48
1:f4:58:ILE:HD11	1:ZG:87:GLU:HB2	1.95	0.48
1:f4:61:THR:CG2	1:ZG:89:TYR:CE1	2.94	0.48
2:H6:9:SER:HB2	1:Y8:363:PRO:HG2	1.95	0.48
1:I6:177:ASP:OD2	1:CL:33:TRP:HZ2	1.96	0.48
1:K6:14:VAL:HG21	1:CL:14:VAL:CB	2.43	0.48
2:P6:9:SER:HB2	1:IR:363:PRO:HG2	1.95	0.48
1:Q6:29:TYR:CD2	1:LJ:317:PHE:CD1	2.93	0.48
1:R6:345:LEU:HD11	1:R6:350:ILE:HD11	1.96	0.48
1:S6:45:MET:HE2	1:CS:39:TRP:HZ3	1.78	0.48
1:a6:47:GLU:CG	1:SE:22:LEU:CB	2.91	0.48
1:g6:45:MET:HG2	1:CP:14:VAL:CA	2.38	0.48
1:g6:58:ILE:HD13	1:CP:55:PHE:HD2	1.78	0.48
1:g6:167:GLU:OE2	1:g6:352:TYR:OH	2.26	0.48
1:g6:310:THR:HG21	1:DJ:27:HIS:CE1	2.36	0.48
1:h6:200:LYS:HA	1:h6:203:GLU:HG3	1.96	0.48
1:i6:19:LYS:NZ	1:i6:37:ASP:OD1	2.37	0.48
1:i6:129:GLN:NE2	1:i6:159:LYS:O	2.41	0.48
1:I7:14:VAL:CB	1:iR:14:VAL:HG21	2.43	0.48
1:I7:33:TRP:HZ2	1:gR:177:ASP:OD2	1.96	0.48
1:K7:13:LEU:HD11	1:CQ:45:MET:CE	2.43	0.48
1:Y7:62:LEU:CD1	2:PR:53:PHE:O	2.62	0.48
1:Y7:259:PHE:CE1	1:JR:259:PHE:CD1	2.98	0.48
1:a7:13:LEU:HD11	1:KE:45:MET:CE	2.43	0.48
1:a7:291:GLN:NE2	1:a7:295:ASP:OD2	2.47	0.48
1:j7:26:ASN:HD22	1:QG:102:SER:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k7:45:ILE:CG1	2:k7:46:HIS:H	2.23	0.48
2:n7:31:SER:O	2:EQ:45:ILE:HG23	2.13	0.48
1:C8:167:GLU:OE2	1:C8:352:TYR:OH	2.26	0.48
2:H8:55:GLY:HA3	2:X8:2:TYR:HB2	1.94	0.48
1:K8:291:GLN:NE2	1:K8:295:ASP:OD2	2.47	0.48
1:Y8:206:LEU:HD12	1:Y8:206:LEU:O	2.14	0.48
1:Y8:375:TRP:CZ3	1:bQ:367:PRO:HG3	2.47	0.48
2:d8:10:MET:HG2	1:BR:365:HIS:HD2	1.79	0.48
1:g8:208:LEU:CD1	1:g8:391:ILE:HD12	1.95	0.48
1:g8:209:GLN:NE2	1:g8:235:LEU:HB2	2.28	0.48
3:AB:300:LYS:NZ	3:AF:308:THR:HG21	2.28	0.48
3:AC:163:GLU:OE2	3:AC:241:LYS:NZ	2.43	0.48
1:AD:279:VAL:HG12	1:AD:318:THR:HA	1.95	0.48
1:CD:240:ILE:HG13	1:CD:270:VAL:HA	1.96	0.48
1:LD:185:GLU:HA	1:LD:188:VAL:HG12	1.95	0.48
1:BE:242:THR:HG21	1:BE:246:LEU:HD12	1.94	0.48
1:FE:27:HIS:CG	1:CP:312:PRO:CG	2.96	0.48
1:FE:141:ASN:ND2	1:BP:54:LEU:HD12	2.28	0.48
2:JE:10:MET:HB2	1:DJ:372:VAL:HG11	1.95	0.48
1:ME:19:LYS:NZ	1:ME:37:ASP:OD1	2.37	0.48
1:bE:200:LYS:HA	1:bE:203:GLU:HG3	1.96	0.48
1:bE:242:THR:HG21	1:bE:246:LEU:HD12	1.94	0.48
1:bE:259:PHE:HD1	1:cE:259:PHE:CE2	2.32	0.48
5:OF:355:GLN:OE1	5:CM:275:ASN:CG	2.55	0.48
1:CG:360:LEU:HD23	2:fL:22:LYS:HG2	1.88	0.48
1:AG:242:THR:HG21	1:AG:246:LEU:HD12	1.94	0.48
2:EG:45:ILE:HG23	2:XL:31:SER:O	2.13	0.48
2:HG:22:LYS:HG2	1:YL:360:LEU:HD23	1.89	0.48
1:QG:206:LEU:HD12	1:QG:206:LEU:O	2.14	0.48
1:bG:325:LYS:NZ	1:bG:325:LYS:CB	2.73	0.48
2:nG:2:TYR:HB2	2:PL:55:GLY:HA3	1.94	0.48
3:AI:66:ILE:HG21	1:JS:359:MET:SD	2.54	0.48
5:CI:264:GLY:CA	5:NO:228:ARG:HH22	2.25	0.48
5:OI:178:ILE:HD13	5:OI:185:MET:HG2	1.95	0.48
1:KJ:50:VAL:CG2	1:LP:137:ASP:CG	2.79	0.48
1:KJ:374:HIS:NE2	2:MP:8:ARG:CZ	2.76	0.48
1:LJ:289:GLN:N	1:LJ:326:GLU:OE2	2.42	0.48
1:CK:147:ASP:N	1:CK:147:ASP:OD1	2.47	0.48
1:CK:314:GLY:C	1:jR:31:LYS:N	2.70	0.48
1:DK:280:PHE:HE2	1:DK:320:ASP:HA	1.79	0.48
1:BL:13:LEU:HD11	1:YR:45:MET:CE	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YL:45:MET:CE	1:SR:13:LEU:HD11	2.43	0.48
4:BM:147:THR:HG22	4:BO:192:THR:CB	2.43	0.48
3:AN:154:ILE:HA	3:AN:157:ILE:HG22	1.94	0.48
1:CP:240:ILE:HG13	1:CP:270:VAL:HA	1.96	0.48
1:QQ:86:SER:HB2	1:SQ:60:GLU:HB2	1.95	0.48
1:QQ:206:LEU:HD12	1:QQ:206:LEU:O	2.14	0.48
1:QQ:321:VAL:HG21	1:QQ:327:PHE:CE2	2.49	0.48
1:JR:259:PHE:HD1	1:KR:259:PHE:CE2	2.32	0.48
1:LR:197:LEU:HD13	1:LR:340:LEU:HB3	1.94	0.48
1:A1:200:LYS:HA	1:A1:203:GLU:HG3	1.96	0.48
1:I1:14:VAL:CB	1:UE:14:VAL:HG21	2.43	0.48
1:I1:206:LEU:HD12	1:I1:206:LEU:O	2.14	0.48
1:J1:85:TYR:HE2	1:IG:46:PHE:CD1	2.31	0.48
1:R1:104:ASN:HB2	1:AS:110:LYS:NZ	2.29	0.48
1:T1:38:LYS:CG	1:CJ:220:ARG:O	2.61	0.48
1:T1:45:MET:HA	1:BJ:20:SER:HB3	1.94	0.48
2:W1:10:MET:HB2	1:CS:372:VAL:HG11	1.95	0.48
1:Z1:47:GLU:CG	1:IR:22:LEU:CB	2.91	0.48
2:e1:52:SER:O	1:I6:62:LEU:HD13	2.12	0.48
1:g1:345:LEU:HD11	1:g1:350:ILE:HD11	1.95	0.48
4:B2:6:MET:SD	5:E9:46:TYR:CE2	3.07	0.48
4:B2:119:GLU:HB2	4:B2:218:GLN:H	1.78	0.48
4:B2:188:ASP:HA	4:B9:150:ASP:O	2.13	0.48
5:D2:67:ASP:CB	5:EB:11:PHE:HB2	2.39	0.48
5:F2:51:ARG:CD	4:BF:32:PHE:CE1	2.90	0.48
1:C3:209:GLN:NE2	1:C3:235:LEU:HB2	2.28	0.48
2:H3:9:SER:HB2	1:C8:363:PRO:HG2	1.95	0.48
1:K3:13:LEU:HD11	1:I4:45:MET:CE	2.43	0.48
1:Y3:26:ASN:HD22	1:YG:102:SER:HB3	1.78	0.48
1:C4:209:GLN:NE2	1:C4:235:LEU:HB2	2.28	0.48
1:D4:325:LYS:NZ	1:D4:325:LYS:CB	2.73	0.48
2:E4:45:ILE:HG23	2:HQ:31:SER:O	2.13	0.48
1:R4:105:GLU:OE1	1:BD:110:LYS:CD	2.60	0.48
1:R4:178:TYR:HB2	1:BS:35:PHE:HZ	1.75	0.48
1:S4:13:LEU:HD11	1:IQ:45:MET:CE	2.43	0.48
2:U4:1:MET:HE1	2:GS:54:THR:HA	1.96	0.48
1:X4:259:PHE:CE1	1:Z8:259:PHE:CD1	2.98	0.48
1:X4:372:VAL:HG12	2:hE:11:MET:HE3	1.96	0.48
1:f4:375:TRP:CZ3	1:gG:367:PRO:HG3	2.47	0.48
1:g4:200:LYS:HA	1:g4:203:GLU:HG3	1.96	0.48
3:A5:11:GLU:C	5:DO:41:ASN:ND2	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:154:ILE:HA	3:A5:157:ILE:HG22	1.94	0.48
3:A5:212:MET:HE2	4:BO:244:LYS:CB	2.33	0.48
5:F5:31:PHE:CE2	5:FI:46:TYR:CG	2.74	0.48
1:A6:200:LYS:HA	1:A6:203:GLU:HG3	1.96	0.48
1:I6:49:PHE:CB	1:aR:137:ASP:OD2	2.59	0.48
1:Y6:209:GLN:NE2	1:Y6:235:LEU:HB2	2.28	0.48
2:d6:10:MET:HG2	1:a7:365:HIS:HD2	1.79	0.48
1:g6:86:SER:HB2	1:i6:60:GLU:HB2	1.95	0.48
1:g6:302:ASP:CG	1:DJ:29:TYR:CZ	2.83	0.48
1:C7:209:GLN:NE2	1:C7:235:LEU:HB2	2.28	0.48
1:A7:85:TYR:HE2	1:gR:46:PHE:CD1	2.31	0.48
1:A7:168:GLU:OE2	1:B7:211:ASN:ND2	2.38	0.48
2:H7:52:SER:O	1:gR:62:LEU:HD13	2.12	0.48
1:K7:291:GLN:NE2	1:K7:295:ASP:OD2	2.47	0.48
1:R7:87:GLU:HB2	1:QQ:58:ILE:HD11	1.95	0.48
1:R7:259:PHE:CD1	1:QQ:259:PHE:CE1	2.98	0.48
1:R7:259:PHE:HD1	1:S7:259:PHE:CE2	2.32	0.48
1:S7:129:GLN:NE2	1:S7:159:LYS:O	2.41	0.48
1:Z7:87:GLU:HB2	1:IR:58:ILE:HD11	1.95	0.48
1:Z7:89:TYR:CE1	1:IR:61:THR:CG2	2.94	0.48
2:f7:22:LYS:HG2	1:IR:360:LEU:HD22	1.91	0.48
1:i7:14:VAL:HG21	1:C8:14:VAL:CB	2.43	0.48
1:C8:206:LEU:HD12	1:C8:206:LEU:O	2.14	0.48
1:D8:71:ARG:HD3	1:D8:271:ILE:HD12	1.96	0.48
1:I8:206:LEU:HD12	1:I8:206:LEU:O	2.14	0.48
1:J8:200:LYS:HA	1:J8:203:GLU:HG3	1.96	0.48
1:Q8:208:LEU:HD12	1:Q8:391:ILE:HD11	1.89	0.48
1:a8:291:GLN:NE2	1:a8:295:ASP:OD2	2.47	0.48
1:g8:29:TYR:HD2	1:KS:317:PHE:CZ	2.23	0.48
2:k8:45:ILE:HG23	2:fR:31:SER:O	2.13	0.48
3:A9:11:GLU:C	5:DC:41:ASN:ND2	2.72	0.48
5:C9:264:GLY:CA	5:NA:228:ARG:HH22	2.25	0.48
4:BA:6:MET:SD	5:EC:46:TYR:CE2	3.07	0.48
5:FA:105:ILE:O	5:FA:110:LYS:HB2	2.13	0.48
5:CA:178:ILE:HD11	5:CA:185:MET:HE3	1.95	0.48
5:EB:57:GLU:HG2	4:BM:33:TYR:HE1	1.76	0.48
5:FB:47:ASP:N	5:FF:31:PHE:CZ	2.68	0.48
3:AC:58:LEU:HD11	3:AC:143:MET:HE1	1.96	0.48
1:AD:256:ALA:HA	1:KD:260:GLN:HB2	1.96	0.48
1:BD:268:ASP:HA	2:FD:44:GLN:HB2	1.96	0.48
1:CD:143:GLN:CD	1:YG:57:LYS:HD2	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:174:MET:HG2	1:CD:382:LYS:HD3	1.95	0.48
1:KD:374:HIS:CE1	2:LS:8:ARG:HH22	2.32	0.48
1:KD:374:HIS:CG	2:LS:8:ARG:NH2	2.81	0.48
1:FE:38:LYS:CG	1:CP:220:ARG:O	2.61	0.48
1:KE:86:SER:HB2	1:ME:60:GLU:HB2	1.95	0.48
1:LE:200:LYS:HA	1:LE:203:GLU:HG3	1.96	0.48
1:SE:206:LEU:HD12	1:SE:206:LEU:O	2.14	0.48
2:WE:33:ASP:O	2:WE:36:LYS:NZ	2.43	0.48
1:dE:71:ARG:HD3	1:dE:271:ILE:HD12	1.96	0.48
5:DF:41:ASN:ND2	3:AO:11:GLU:C	2.72	0.48
1:BG:365:HIS:HD2	2:VG:10:MET:HG2	1.79	0.48
1:RG:242:THR:HG21	1:RG:246:LEU:HD12	1.94	0.48
1:YG:82:ILE:HD11	1:DK:144:THR:O	2.13	0.48
2:fG:31:SER:O	2:EL:45:ILE:HG23	2.13	0.48
5:FH:87:GLN:HG3	5:FH:91:LEU:HD23	1.96	0.48
3:AI:51:VAL:HG21	3:AI:299:ILE:HD11	1.95	0.48
1:AJ:82:ILE:HG21	1:JS:143:GLN:O	2.14	0.48
1:CJ:240:ILE:HG13	1:CJ:270:VAL:HA	1.96	0.48
1:KJ:24:ASP:N	1:KJ:24:ASP:OD1	2.46	0.48
1:LJ:369:PHE:HB2	1:AS:108:MET:HE1	1.95	0.48
1:AK:210:ASN:ND2	1:LK:244:ASP:OD2	2.43	0.48
1:BK:210:ASN:OD1	1:DK:71:ARG:NH2	2.35	0.48
1:BK:290:ASN:ND2	1:BK:325:LYS:HZ1	2.12	0.48
1:BL:291:GLN:NE2	1:BL:295:ASP:OD2	2.47	0.48
1:YL:206:LEU:HD12	1:YL:206:LEU:O	2.14	0.48
5:EM:46:TYR:CE2	4:BO:6:MET:SD	3.07	0.48
5:CM:178:ILE:HD11	5:CM:185:MET:HE3	1.95	0.48
5:NM:228:ARG:HG2	5:CO:266:THR:OG1	2.12	0.48
3:AN:118:ASP:OD1	3:AN:118:ASP:N	2.36	0.48
3:AO:58:LEU:HD11	3:AO:143:MET:HE1	1.96	0.48
3:AO:63:ARG:HD3	3:AO:145:ASN:HD21	1.78	0.48
3:AO:112:ILE:HG22	2:LS:51:GLN:HE22	1.77	0.48
5:OO:388:LYS:HG3	5:OO:388:LYS:O	2.13	0.48
1:DP:280:PHE:HE2	1:DP:320:ASP:HA	1.79	0.48
1:CQ:375:TRP:CZ3	1:gR:367:PRO:HG3	2.47	0.48
1:IQ:167:GLU:OE2	1:IQ:352:TYR:OH	2.26	0.48
1:QQ:167:GLU:OE2	1:QQ:352:TYR:OH	2.26	0.48
1:RQ:200:LYS:HA	1:RQ:203:GLU:HG3	1.96	0.48
1:TQ:351:LYS:NZ	1:LR:60:GLU:OE2	2.43	0.48
2:aQ:11:MET:HE2	1:AS:372:VAL:CG2	2.44	0.48
1:bQ:206:LEU:HD12	1:bQ:206:LEU:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cQ:357:LYS:HG2	2:gQ:20:LEU:HD12	1.94	0.48
1:CR:206:LEU:HD12	1:CR:206:LEU:O	2.14	0.48
1:DR:325:LYS:NZ	1:DR:325:LYS:CB	2.73	0.48
1:QR:209:GLN:NE2	1:QR:235:LEU:HB2	2.28	0.48
1:RR:345:LEU:HD11	1:RR:350:ILE:HD11	1.96	0.48
1:jR:68:LEU:HB2	1:jR:161:SER:HB3	1.94	0.48
1:BS:326:GLU:O	1:BS:327:PHE:HD1	1.96	0.48
1:CS:216:ASN:ND2	1:CS:229:TYR:O	2.46	0.48
1:CS:239:VAL:HG11	2:FS:48:LEU:HG	1.94	0.48
2:F1:1:MET:N	1:iG:150:ASN:ND2	2.61	0.48
1:J1:89:TYR:HE2	1:IG:63:LEU:HD13	1.71	0.48
1:K1:365:HIS:HD2	2:PE:10:MET:HG2	1.79	0.48
1:L1:71:ARG:HD3	1:L1:271:ILE:HD12	1.96	0.48
2:P1:53:PHE:O	1:IG:62:LEU:CD1	2.62	0.48
1:Q1:86:SER:HB2	1:S1:60:GLU:HB2	1.95	0.48
1:Q1:259:PHE:CE1	1:R6:259:PHE:CD1	2.98	0.48
1:R1:382:LYS:O	1:CJ:33:TRP:HA	2.13	0.48
1:Y1:87:GLU:HB2	1:I6:58:ILE:HD11	1.95	0.48
1:Y1:200:LYS:HA	1:Y1:203:GLU:HG3	1.96	0.48
1:f1:33:TRP:HZ2	1:C3:177:ASP:OD2	1.96	0.48
1:h1:137:ASP:OD2	1:QG:49:PHE:CB	2.59	0.48
3:A2:11:GLU:C	5:DA:41:ASN:ND2	2.72	0.48
5:D2:41:ASN:ND2	3:AF:11:GLU:C	2.72	0.48
1:A3:345:LEU:HD11	1:A3:350:ILE:HD11	1.95	0.48
2:F3:1:MET:H3	1:CE:150:ASN:ND2	2.11	0.48
1:I3:208:LEU:HD12	1:I3:391:ILE:HD11	1.89	0.48
1:Q3:62:LEU:CD1	2:P8:53:PHE:O	2.62	0.48
1:S3:150:ASN:ND2	2:fE:1:MET:N	2.61	0.48
2:a3:11:MET:HE2	1:BK:372:VAL:CG2	2.44	0.48
1:C4:33:TRP:HZ2	1:CG:177:ASP:OD2	1.96	0.48
1:C4:321:VAL:HG21	1:C4:327:PHE:CE2	2.49	0.48
1:C4:375:TRP:CZ3	1:aE:367:PRO:HG3	2.47	0.48
1:I4:62:LEU:CD1	2:H8:53:PHE:O	2.62	0.48
1:I4:98:ASN:HD22	1:I4:99:MET:N	2.12	0.48
2:N4:10:MET:HG2	1:i7:365:HIS:HD2	1.79	0.48
1:Q4:86:SER:HB2	1:S4:60:GLU:HB2	1.95	0.48
1:Q4:98:ASN:HD22	1:Q4:99:MET:N	2.12	0.48
2:U4:1:MET:CA	1:BS:150:ASN:HD21	2.14	0.48
1:g4:382:LYS:O	1:CD:33:TRP:HA	2.13	0.48
1:i4:15:ALA:CB	1:BD:6:THR:HG21	2.43	0.48
2:j4:8:ARG:NH2	1:CD:131:PHE:CE2	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:154:ILE:N	1:AJ:139:ARG:NH1	2.61	0.48
3:A5:201:TYR:OH	3:AI:176:MET:HE3	2.13	0.48
5:N5:178:ILE:HD11	5:N5:185:MET:HE3	1.95	0.48
1:I6:321:VAL:HG21	1:I6:327:PHE:CE2	2.49	0.48
1:Q6:140:PHE:CZ	1:LJ:123:ASN:ND2	2.81	0.48
1:Q6:209:GLN:NE2	1:Q6:235:LEU:HB2	2.28	0.48
2:V6:10:MET:HG2	1:KG:365:HIS:HD2	1.79	0.48
1:Y6:321:VAL:HG21	1:Y6:327:PHE:CE2	2.49	0.48
1:g6:27:HIS:CA	1:AP:100:ASP:OD2	2.52	0.48
1:g6:98:ASN:HD22	1:g6:99:MET:N	2.12	0.48
1:g6:375:TRP:CZ3	1:DJ:367:PRO:CG	2.92	0.48
1:i6:291:GLN:NE2	1:i6:295:ASP:OD2	2.47	0.48
1:j6:71:ARG:HD3	1:j6:271:ILE:HD12	1.96	0.48
1:A7:200:LYS:HA	1:A7:203:GLU:HG3	1.96	0.48
1:B7:31:LYS:HB2	1:BP:314:GLY:O	2.14	0.48
1:D7:107:LEU:HD21	1:BP:369:PHE:HZ	1.78	0.48
1:Y7:209:GLN:NE2	1:Y7:235:LEU:HB2	2.28	0.48
1:g7:206:LEU:HD12	1:g7:206:LEU:O	2.14	0.48
1:h7:200:LYS:HA	1:h7:203:GLU:HG3	1.96	0.48
1:h7:242:THR:HG21	1:h7:246:LEU:HD12	1.94	0.48
1:I8:49:PHE:CB	1:KR:137:ASP:OD2	2.59	0.48
1:S8:13:LEU:HD11	1:IG:45:MET:CE	2.43	0.48
1:Z8:200:LYS:HA	1:Z8:203:GLU:HG3	1.96	0.48
1:g8:115:ARG:NH2	1:i8:299:ALA:O	2.47	0.48
1:g8:321:VAL:HG21	1:g8:327:PHE:CE2	2.49	0.48
1:j8:325:LYS:NZ	1:j8:325:LYS:CB	2.73	0.48
3:A9:53:ILE:HD11	3:A9:70:VAL:HG21	1.95	0.48
4:B9:6:MET:SD	5:EA:46:TYR:CE2	3.07	0.48
4:B9:123:GLN:HB3	4:B9:214:ALA:HB3	1.95	0.48
4:B9:188:ASP:HA	4:BA:150:ASP:O	2.14	0.48
5:C9:265:LEU:HD23	5:NA:233:GLU:H	1.72	0.48
5:NA:388:LYS:HG3	5:NA:388:LYS:O	2.13	0.48
5:DB:26:GLU:CG	5:FF:27:ARG:HH11	2.27	0.48
5:EB:46:TYR:CE2	4:BF:6:MET:SD	3.07	0.48
3:AC:201:TYR:OH	3:AH:176:MET:HE3	2.13	0.48
4:BC:188:ASP:HA	4:BH:150:ASP:O	2.13	0.48
1:AD:140:PHE:C	3:AF:29:ARG:HD3	2.31	0.48
1:DD:55:PHE:O	1:DD:57:LYS:NZ	2.40	0.48
1:KD:29:TYR:C	1:JS:98:ASN:HD22	2.22	0.48
1:LD:222:SER:CA	1:YG:38:LYS:CD	2.55	0.48
1:LD:369:PHE:CB	1:BK:108:MET:HE2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ND:10:MET:HA	2:ND:14:SER:CB	2.42	0.48
2:ND:41:TYR:O	8:PD:117:ALA:N	2.43	0.48
1:BE:81:PHE:O	1:CP:139:ARG:HD2	2.13	0.48
1:LE:345:LEU:HD11	1:LE:350:ILE:HD11	1.95	0.48
1:ME:291:GLN:NE2	1:ME:295:ASP:OD2	2.47	0.48
1:NE:71:ARG:HD3	1:NE:271:ILE:HD12	1.96	0.48
1:TE:200:LYS:HA	1:TE:203:GLU:HG3	1.96	0.48
1:UE:365:HIS:HD2	2:NG:10:MET:HG2	1.79	0.48
2:ZE:9:SER:HB2	1:IL:363:PRO:HG2	1.95	0.48
1:aE:61:THR:CG2	1:AR:89:TYR:CE1	2.94	0.48
1:aE:321:VAL:CG2	1:aE:327:PHE:CD2	2.92	0.48
1:cE:14:VAL:HG21	1:CG:14:VAL:CB	2.43	0.48
5:EF:46:TYR:CE2	4:BM:6:MET:SD	3.07	0.48
5:FF:105:ILE:O	5:FF:110:LYS:HB2	2.13	0.48
2:FG:10:MET:HG2	1:SR:365:HIS:HD2	1.79	0.48
2:HG:31:SER:O	2:UQ:45:ILE:HG23	2.13	0.48
1:IG:86:SER:HB2	1:KG:60:GLU:HB2	1.95	0.48
1:QG:98:ASN:HD22	1:QG:99:MET:N	2.12	0.48
1:YG:209:GLN:NE2	1:YG:235:LEU:HB2	2.28	0.48
1:YG:279:VAL:HG12	1:YG:318:THR:HA	1.95	0.48
1:gG:206:LEU:HD12	1:gG:206:LEU:O	2.14	0.48
1:hG:357:LYS:HG2	2:lG:20:LEU:HD12	1.94	0.48
3:AH:112:ILE:HB	2:MP:21:ASN:HA	1.32	0.48
5:DI:41:ASN:ND2	3:AN:11:GLU:C	2.72	0.48
5:FI:105:ILE:O	5:FI:110:LYS:HB2	2.13	0.48
5:NI:178:ILE:HD11	5:NI:185:MET:HE3	1.95	0.48
1:BJ:372:VAL:CG2	2:iL:11:MET:HE2	2.44	0.48
1:CJ:326:GLU:O	1:CJ:327:PHE:HD1	1.96	0.48
2:FJ:10:MET:CB	1:LP:372:VAL:HG21	2.32	0.48
1:KJ:296:PHE:HE2	1:KJ:321:VAL:HG23	1.77	0.48
1:LJ:33:TRP:NE1	1:CS:174:MET:CA	2.50	0.48
1:AK:82:ILE:HG21	1:KP:143:GLN:O	2.14	0.48
1:CK:131:PHE:CE2	2:kR:8:ARG:NH2	2.82	0.48
1:CK:174:MET:HB2	1:jR:33:TRP:CD2	2.40	0.48
1:JL:259:PHE:CD1	1:YR:259:PHE:CE1	2.98	0.48
1:QL:86:SER:HB2	1:SL:60:GLU:HB2	1.95	0.48
1:QL:259:PHE:CE1	1:RR:259:PHE:CD1	2.98	0.48
1:YL:98:ASN:HD22	1:YL:99:MET:N	2.12	0.48
3:AM:176:MET:HE3	3:AO:201:TYR:OH	2.13	0.48
5:FM:47:ASP:N	5:FO:31:PHE:CZ	2.68	0.48
5:OM:355:GLN:OE1	5:CO:275:ASN:CG	2.55	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FO:87:GLN:HG3	5:FO:91:LEU:HD23	1.96	0.48
1:CQ:206:LEU:HD12	1:CQ:206:LEU:O	2.14	0.48
1:BQ:137:ASP:OD2	1:gR:49:PHE:CB	2.59	0.48
1:JQ:345:LEU:HD11	1:JQ:350:ILE:HD11	1.95	0.48
1:KQ:291:GLN:NE2	1:KQ:295:ASP:OD2	2.47	0.48
1:QQ:209:GLN:NE2	1:QQ:235:LEU:HB2	2.28	0.48
1:CR:98:ASN:HD22	1:CR:99:MET:N	2.12	0.48
1:SR:19:LYS:NZ	1:SR:37:ASP:OD1	2.37	0.48
1:YR:206:LEU:HD12	1:YR:206:LEU:O	2.14	0.48
1:gR:321:VAL:HG21	1:gR:327:PHE:CE2	2.49	0.48
1:JS:121:TYR:HB3	1:JS:381:PHE:HZ	1.78	0.48
1:A1:367:PRO:O	1:D1:377:HIS:NE2	2.38	0.48
2:H1:31:SER:O	2:cG:45:ILE:HG23	2.13	0.48
1:Q1:98:ASN:HD22	1:Q1:99:MET:N	2.12	0.48
1:Q1:177:ASP:OD2	1:Q8:33:TRP:HZ2	1.96	0.48
1:Z1:259:PHE:O	1:Z1:260:GLN:CG	2.62	0.48
1:f1:209:GLN:NE2	1:f1:235:LEU:HB2	2.28	0.48
4:B2:29:LYS:CA	5:EA:64:TRP:HE1	2.25	0.48
5:E2:140:ASP:N	5:C2:139:LYS:HB3	2.25	0.48
5:N2:178:ILE:HD11	5:N2:185:MET:HE3	1.95	0.48
1:C3:58:ILE:HD11	1:h7:87:GLU:HB2	1.95	0.48
1:B3:291:GLN:NE2	1:B3:295:ASP:OD2	2.47	0.48
1:B3:365:HIS:HD2	2:FQ:10:MET:HG2	1.79	0.48
1:I3:14:VAL:CB	1:SL:14:VAL:HG21	2.43	0.48
1:R3:85:TYR:HE2	1:I8:46:PHE:CD1	2.31	0.48
1:R3:345:LEU:HD11	1:R3:350:ILE:HD11	1.95	0.48
1:S3:259:PHE:O	1:S3:260:GLN:CG	2.62	0.48
1:C4:115:ARG:NH2	1:B4:299:ALA:O	2.47	0.48
1:I4:86:SER:HB2	1:K4:60:GLU:HB2	1.95	0.48
1:K4:365:HIS:HD2	2:VR:10:MET:HG2	1.79	0.48
1:Q4:279:VAL:HG12	1:Q4:318:THR:HA	1.95	0.48
1:R4:104:ASN:HB2	1:BD:110:LYS:NZ	2.29	0.48
1:T4:38:LYS:CG	1:BS:220:ARG:O	2.61	0.48
1:X4:279:VAL:HG12	1:X4:318:THR:HA	1.95	0.48
1:X4:321:VAL:HG21	1:X4:327:PHE:CE2	2.49	0.48
1:Z4:291:GLN:NE2	1:Z4:295:ASP:OD2	2.47	0.48
2:b4:45:ILE:HG23	2:H6:31:SER:O	2.13	0.48
2:e4:2:TYR:HB2	2:P7:55:GLY:HA3	1.94	0.48
2:e4:11:MET:HE3	1:bQ:372:VAL:HG12	1.96	0.48
2:e4:31:SER:O	2:M7:45:ILE:HG23	2.13	0.48
1:g4:259:PHE:CD1	1:YG:259:PHE:CE1	2.98	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h4:365:HIS:HD2	2:FL:10:MET:HG2	1.79	0.48
3:A5:108:THR:O	3:A5:132:TYR:OH	2.32	0.48
3:A5:156:ILE:CA	1:AJ:139:ARG:HH22	2.26	0.48
4:B5:188:ASP:HA	4:BI:150:ASP:O	2.13	0.48
4:B5:251:TRP:HZ3	5:EI:39:ASN:HD22	1.61	0.48
5:E5:18:LEU:HD12	5:DI:60:ALA:CB	2.44	0.48
1:A6:367:PRO:O	1:D6:377:HIS:NE2	2.38	0.48
2:F6:1:MET:N	1:dQ:150:ASN:ND2	2.61	0.48
1:I6:279:VAL:HG12	1:I6:318:THR:HA	1.95	0.48
2:M6:45:ILE:HG13	2:M6:46:HIS:H	1.66	0.48
1:Q6:81:PHE:CE2	1:CS:139:ARG:CD	2.66	0.48
1:Q6:86:SER:HB2	1:S6:60:GLU:HB2	1.95	0.48
1:Q6:206:LEU:HD12	1:Q6:206:LEU:O	2.14	0.48
1:Q6:321:VAL:HG21	1:Q6:327:PHE:CE2	2.49	0.48
1:R6:200:LYS:HA	1:R6:203:GLU:HG3	1.96	0.48
1:S6:19:LYS:NZ	1:S6:37:ASP:OD1	2.37	0.48
1:T6:71:ARG:HD3	1:T6:271:ILE:HD12	1.96	0.48
1:Y6:167:GLU:OE2	1:Y6:352:TYR:OH	2.26	0.48
1:h6:345:LEU:HD11	1:h6:350:ILE:HD11	1.95	0.48
2:l6:10:MET:HG2	1:B8:365:HIS:HD2	1.79	0.48
1:C7:82:ILE:HD11	1:DP:144:THR:O	2.13	0.48
1:A7:87:GLU:HB2	1:gR:58:ILE:HD11	1.95	0.48
1:B7:259:PHE:O	1:B7:260:GLN:CG	2.62	0.48
1:Q7:33:TRP:HZ2	1:YL:177:ASP:OD2	1.96	0.48
1:S7:365:HIS:HD2	2:VL:10:MET:HG2	1.79	0.48
1:Y7:14:VAL:CB	1:SQ:14:VAL:HG21	2.43	0.48
1:Y7:206:LEU:HD12	1:Y7:206:LEU:O	2.14	0.48
1:Z7:99:MET:HE1	1:I8:368:GLU:O	2.14	0.48
2:f7:11:MET:HE3	1:I8:372:VAL:HG12	1.96	0.48
1:I8:321:VAL:HG21	1:I8:327:PHE:CE2	2.49	0.48
1:J8:259:PHE:HD1	1:K8:259:PHE:CE2	2.32	0.48
1:Q8:321:VAL:HG21	1:Q8:327:PHE:CE2	2.49	0.48
1:T8:71:ARG:HD3	1:T8:271:ILE:HD12	1.96	0.48
1:g8:35:PHE:CE1	1:KS:178:TYR:CD1	2.97	0.48
1:i8:17:SER:HA	1:DD:44:THR:O	2.13	0.48
3:A9:163:GLU:OE2	3:A9:241:LYS:NZ	2.43	0.48
5:O9:178:ILE:HD11	5:O9:185:MET:HE3	1.95	0.48
3:AB:58:LEU:HD11	3:AB:143:MET:HE1	1.96	0.48
4:BB:123:GLN:HB3	4:BB:214:ALA:HB3	1.95	0.48
5:DB:132:ASN:HA	5:DB:135:LYS:HZ2	1.79	0.48
3:AC:83:TYR:O	1:KP:77:LYS:HE2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:170:GLU:HG2	1:KK:33:TRP:CZ3	2.49	0.48
1:CD:147:ASP:N	1:CD:147:ASP:OD1	2.47	0.48
1:LD:57:LYS:HZ1	1:KK:61:THR:HG21	1.77	0.48
1:AE:209:GLN:NE2	1:AE:235:LEU:HB2	2.28	0.48
1:AE:321:VAL:HG21	1:AE:327:PHE:CE2	2.49	0.48
1:BE:105:GLU:CG	1:BJ:111:ARG:NH2	2.67	0.48
1:FE:31:LYS:N	1:CP:314:GLY:C	2.70	0.48
1:KE:98:ASN:HD22	1:KE:99:MET:N	2.12	0.48
1:KE:372:VAL:HG12	2:PR:11:MET:HE3	1.96	0.48
1:LE:259:PHE:HD1	1:ME:259:PHE:CE2	2.32	0.48
1:ME:129:GLN:NE2	1:ME:159:LYS:O	2.41	0.48
1:TE:87:GLU:HB2	1:IQ:58:ILE:HD11	1.95	0.48
1:aE:62:LEU:CD1	2:HR:53:PHE:O	2.62	0.48
1:aE:128:LYS:CD	1:AR:99:MET:SD	2.92	0.48
1:bE:85:TYR:HE2	1:CR:46:PHE:CD1	2.32	0.48
1:bE:89:TYR:CE1	1:CR:61:THR:CG2	2.94	0.48
5:EF:62:ARG:HH22	5:EM:17:PHE:HB2	1.78	0.48
1:CG:86:SER:HB2	1:BG:60:GLU:HB2	1.95	0.48
1:CG:279:VAL:HG12	1:CG:318:THR:HA	1.95	0.48
1:AG:200:LYS:HA	1:AG:203:GLU:HG3	1.96	0.48
2:EG:44:GLN:OE1	2:EG:44:GLN:HA	2.02	0.48
1:IG:98:ASN:HD22	1:IG:99:MET:N	2.12	0.48
1:KG:362:PRO:HA	1:KG:363:PRO:HD3	1.79	0.48
1:QG:86:SER:HB2	1:SG:60:GLU:HB2	1.95	0.48
2:UG:44:GLN:OE1	2:UG:44:GLN:HA	2.02	0.48
1:YG:115:ARG:NH2	1:aG:299:ALA:O	2.47	0.48
1:YG:310:THR:HG21	1:DK:27:HIS:CE1	2.36	0.48
1:YG:321:VAL:HG21	1:YG:327:PHE:CE2	2.49	0.48
1:aG:144:THR:N	1:BK:82:ILE:HD13	1.84	0.48
1:aG:291:GLN:NE2	1:aG:295:ASP:OD2	2.47	0.48
2:cG:38:GLU:N	2:cG:38:GLU:CD	2.72	0.48
2:fG:11:MET:HE3	1:gG:372:VAL:HG12	1.96	0.48
5:EH:13:ASP:OD1	5:EH:13:ASP:N	2.45	0.48
5:FH:31:PHE:CZ	5:FN:47:ASP:N	2.68	0.48
5:NH:178:ILE:HD11	5:NH:185:MET:HE3	1.95	0.48
1:AJ:62:LEU:CD2	1:KJ:88:GLU:HG2	2.43	0.48
1:KJ:281:LYS:NZ	1:KJ:313:VAL:O	2.32	0.48
1:LJ:45:MET:CE	1:JS:19:LYS:HE2	2.44	0.48
2:MJ:8:ARG:NH2	1:JS:374:HIS:CG	2.81	0.48
1:AK:116:MET:HG2	1:KP:51:ASN:HD22	1.71	0.48
1:AK:349:SER:HB2	1:AK:388:PHE:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:240:ILE:HG13	1:BK:270:VAL:HA	1.96	0.48
1:CK:41:ASN:ND2	1:CK:46:PHE:O	2.47	0.48
1:CK:131:PHE:HE2	2:kR:8:ARG:NH2	2.11	0.48
1:CK:150:ASN:HD21	2:kR:1:MET:H3	0.62	0.48
1:LK:369:PHE:CB	1:BP:108:MET:HE2	2.44	0.48
1:IL:33:TRP:HZ2	1:IQ:177:ASP:OD2	1.96	0.48
1:IL:206:LEU:HD12	1:IL:206:LEU:O	2.14	0.48
1:IL:209:GLN:NE2	1:IL:235:LEU:HB2	2.28	0.48
1:JL:345:LEU:HD11	1:JL:350:ILE:HD11	1.95	0.48
1:QL:98:ASN:HD22	1:QL:99:MET:N	2.12	0.48
1:RL:110:LYS:O	1:QR:130:LYS:NZ	2.41	0.48
3:AN:287:PRO:HA	3:AN:290:PHE:HD2	1.76	0.48
5:EN:140:ASP:CB	5:CN:139:LYS:HB3	2.01	0.48
1:DP:350:ILE:O	2:GP:50:LYS:NZ	2.39	0.48
1:KP:136:ASN:OD1	1:KP:137:ASP:N	2.47	0.48
1:KQ:365:HIS:HD2	2:dR:10:MET:HG2	1.79	0.48
1:QQ:115:ARG:NH2	1:SQ:299:ALA:O	2.47	0.48
1:TQ:325:LYS:NZ	1:TQ:325:LYS:CB	2.73	0.48
1:CR:321:VAL:HG21	1:CR:327:PHE:CE2	2.49	0.48
1:QR:206:LEU:HD12	1:QR:206:LEU:O	2.14	0.48
1:QR:321:VAL:HG21	1:QR:327:PHE:CE2	2.49	0.48
1:RR:200:LYS:HA	1:RR:203:GLU:HG3	1.96	0.48
1:TR:71:ARG:HD3	1:TR:271:ILE:HD12	1.96	0.48
1:gR:279:VAL:HG12	1:gR:318:THR:HA	1.95	0.48
1:BS:147:ASP:OD1	1:BS:147:ASP:N	2.47	0.48
1:C1:61:THR:CG2	1:A6:89:TYR:CE1	2.94	0.47
1:C1:86:SER:HB2	1:B1:60:GLU:HB2	1.95	0.47
1:C1:368:GLU:O	1:J7:99:MET:HE1	2.14	0.47
1:A1:89:TYR:CE1	1:C6:61:THR:CG2	2.94	0.47
1:J1:87:GLU:HB2	1:IG:58:ILE:HD11	1.95	0.47
1:J1:200:LYS:HA	1:J1:203:GLU:HG3	1.96	0.47
1:R1:81:PHE:O	1:CJ:139:ARG:HD2	2.13	0.47
2:U1:8:ARG:NH2	1:CJ:131:PHE:CE2	2.82	0.47
1:X1:145:LEU:CG	1:I8:80:ASP:OD2	2.63	0.47
1:X1:363:PRO:HG2	2:X3:9:SER:HB2	1.95	0.47
1:X1:367:PRO:HG3	1:I8:375:TRP:CZ3	2.47	0.47
1:f1:206:LEU:HD12	1:f1:206:LEU:O	2.14	0.47
1:f1:363:PRO:HG2	2:n7:9:SER:HB2	1.95	0.47
1:h1:14:VAL:HG21	1:QG:14:VAL:HG23	1.94	0.47
3:A2:300:LYS:NZ	3:AB:308:THR:HG21	2.28	0.47
5:E2:140:ASP:HB3	5:C2:139:LYS:HZ3	1.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O2:388:LYS:O	5:O2:388:LYS:HG3	2.13	0.47
1:C3:115:ARG:NH2	1:B3:299:ALA:O	2.47	0.47
1:B3:150:ASN:ND2	2:FQ:1:MET:H3	2.11	0.47
2:H3:11:MET:HE3	1:C8:372:VAL:HG12	1.96	0.47
1:I3:33:TRP:HZ2	1:QL:177:ASP:OD2	1.96	0.47
1:I3:321:VAL:HG21	1:I3:327:PHE:CE2	2.49	0.47
1:I3:372:VAL:HG12	2:XR:11:MET:HE3	1.96	0.47
1:L3:71:ARG:HD3	1:L3:271:ILE:HD12	1.96	0.47
1:Q3:33:TRP:HZ2	1:X4:177:ASP:OD2	1.96	0.47
1:Q3:300:TYR:CA	1:J8:115:ARG:NH2	2.75	0.47
2:V3:10:MET:HG2	1:KR:365:HIS:HD2	1.79	0.47
1:b3:325:LYS:NZ	1:b3:325:LYS:CB	2.73	0.47
1:B4:13:LEU:HD11	1:aE:45:MET:CE	2.43	0.47
1:I4:102:SER:HB3	1:TR:26:ASN:HD22	1.78	0.47
1:J4:99:MET:HE1	1:AE:368:GLU:O	2.15	0.47
1:Q4:49:PHE:CB	1:KL:137:ASP:OD2	2.59	0.47
2:U4:15:TYR:HH	1:BS:138:THR:HG21	1.78	0.47
1:X4:115:ARG:NH2	1:Z4:299:ALA:O	2.47	0.47
1:X4:209:GLN:NE2	1:X4:235:LEU:HB2	2.28	0.47
2:b4:38:GLU:N	2:b4:38:GLU:CD	2.72	0.47
1:g4:174:MET:CG	1:CD:33:TRP:CG	2.97	0.47
1:h4:14:VAL:HG21	1:gG:14:VAL:CB	2.43	0.47
2:l4:10:MET:HB2	1:DK:372:VAL:HG11	1.95	0.47
3:A5:51:VAL:HG21	3:A5:299:ILE:HD11	1.95	0.47
3:A5:149:GLN:CD	1:AJ:149:THR:HG23	2.39	0.47
3:A5:155:GLU:N	1:AJ:139:ARG:CD	2.74	0.47
4:B5:147:THR:HG22	4:BN:192:THR:CB	2.43	0.47
1:C6:368:GLU:O	1:AL:99:MET:HE1	2.14	0.47
1:Q6:115:ARG:NH2	1:S6:299:ALA:O	2.47	0.47
1:Q6:208:LEU:HD12	1:Q6:391:ILE:HD11	1.89	0.47
1:Q6:310:THR:HG21	1:CS:27:HIS:CE1	2.36	0.47
1:T6:26:ASN:HD22	1:IG:102:SER:HB3	1.78	0.47
1:Y6:177:ASP:OD2	1:SE:33:TRP:HZ2	1.96	0.47
1:Y6:368:GLU:O	1:JG:99:MET:HE1	2.15	0.47
1:g6:29:TYR:HD2	1:LP:317:PHE:CZ	2.23	0.47
1:h6:259:PHE:HD1	1:i6:259:PHE:CE2	2.32	0.47
2:n6:53:PHE:O	1:AE:62:LEU:CD1	2.62	0.47
1:C7:136:ASN:HB2	1:LK:126:VAL:HG11	1.95	0.47
1:B7:14:VAL:HB	1:DP:14:VAL:CG1	2.26	0.47
2:H7:31:SER:O	2:fQ:45:ILE:HG23	2.13	0.47
2:N7:10:MET:HG2	1:a8:365:HIS:HD2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q7:139:ARG:HD2	1:YL:81:PHE:HE2	1.63	0.47
2:X7:9:SER:HB2	1:Y7:363:PRO:HG2	1.95	0.47
2:X7:11:MET:HE3	1:Y7:372:VAL:HG12	1.96	0.47
1:g7:33:TRP:HZ2	1:AE:177:ASP:OD2	1.96	0.47
1:i7:259:PHE:O	1:i7:260:GLN:CG	2.62	0.47
1:S8:14:VAL:HG23	1:IG:14:VAL:HG21	1.96	0.47
1:a8:14:VAL:HG21	1:bQ:14:VAL:CB	2.43	0.47
5:F9:27:ARG:HH11	5:DA:26:GLU:CG	2.27	0.47
3:AA:63:ARG:HD3	3:AA:145:ASN:HD21	1.78	0.47
4:BA:29:LYS:CA	5:EH:64:TRP:HE1	2.25	0.47
5:CB:388:LYS:O	5:CB:388:LYS:HG3	2.13	0.47
5:NB:178:ILE:HD11	5:NB:185:MET:HE3	1.95	0.47
3:AC:11:GLU:C	5:DN:41:ASN:ND2	2.72	0.47
1:BD:173:ALA:HB2	1:BD:279:VAL:HG11	1.96	0.47
1:CD:47:GLU:HB3	1:YG:20:SER:CB	2.41	0.47
1:DD:16:LYS:HB2	1:DD:19:LYS:HE2	1.96	0.47
2:ED:45:ILE:HD11	2:HD:31:SER:HB3	1.95	0.47
1:KD:143:GLN:O	1:IS:82:ILE:HG21	2.14	0.47
1:LD:21:ALA:CB	1:DK:123:ASN:HD22	2.04	0.47
1:LD:45:MET:HE1	1:KK:15:ALA:C	2.15	0.47
1:LD:149:THR:N	2:FK:15:TYR:HD2	2.05	0.47
2:MD:49:SER:OG	3:AF:114:PHE:CE1	2.64	0.47
2:EE:45:ILE:HG23	2:mR:31:SER:O	2.13	0.47
2:GE:11:MET:HE2	1:BP:372:VAL:CG2	2.44	0.47
1:CE:19:LYS:NZ	1:CE:37:ASP:OD1	2.37	0.47
1:FE:34:THR:HG21	1:CP:122:GLY:H	1.77	0.47
2:JE:31:SER:O	2:hL:45:ILE:HG23	2.13	0.47
1:TE:242:THR:HG21	1:TE:246:LEU:HD12	1.94	0.47
1:TE:259:PHE:CD1	1:IQ:259:PHE:CE1	2.98	0.47
1:UE:259:PHE:O	1:UE:260:GLN:CG	2.62	0.47
1:aE:58:ILE:HD11	1:AR:87:GLU:HB2	1.95	0.47
1:BG:291:GLN:NE2	1:BG:295:ASP:OD2	2.47	0.47
1:QG:279:VAL:HG12	1:QG:318:THR:HA	1.95	0.47
1:jG:71:ARG:HD3	1:jG:271:ILE:HD12	1.96	0.47
1:DJ:280:PHE:HE2	1:DJ:320:ASP:HA	1.79	0.47
1:LJ:25:PHE:CA	1:AS:99:MET:C	2.51	0.47
1:BK:268:ASP:HA	2:FK:44:GLN:HB2	1.96	0.47
1:CK:53:TYR:HD1	1:hR:222:SER:OG	1.95	0.47
1:CK:240:ILE:HG13	1:CK:270:VAL:HA	1.96	0.47
1:DK:89:TYR:CZ	1:KK:63:LEU:HB2	2.49	0.47
1:KK:87:GLU:HB3	1:KK:120:LEU:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KK:136:ASN:OD1	1:KK:137:ASP:N	2.47	0.47
1:CL:302:ASP:CG	1:YR:29:TYR:HH	2.06	0.47
1:JL:85:TYR:OH	1:YR:46:PHE:HD1	1.87	0.47
1:bL:71:ARG:HD3	1:bL:271:ILE:HD12	1.96	0.47
3:AN:51:VAL:HG21	3:AN:299:ILE:HD11	1.95	0.47
3:AO:53:ILE:HD11	3:AO:70:VAL:HG21	1.95	0.47
1:AP:183:LEU:HD12	1:AP:187:ASN:HB2	1.96	0.47
2:EQ:38:GLU:N	2:EQ:38:GLU:CD	2.72	0.47
1:IQ:115:ARG:NH2	1:KQ:299:ALA:O	2.47	0.47
1:SQ:365:HIS:HD2	2:NR:10:MET:HG2	1.79	0.47
1:eQ:71:ARG:HD3	1:eQ:271:ILE:HD12	1.96	0.47
1:QR:86:SER:HB2	1:SR:60:GLU:HB2	1.95	0.47
1:QR:115:ARG:NH2	1:SR:299:ALA:O	2.47	0.47
1:YR:115:ARG:NH2	1:aR:299:ALA:O	2.47	0.47
2:cR:38:GLU:N	2:cR:38:GLU:CD	2.72	0.47
1:BS:355:TYR:HE1	1:BS:357:LYS:HZ1	1.61	0.47
1:CS:89:TYR:CZ	1:JS:63:LEU:HB2	2.49	0.47
1:CS:173:ALA:HB2	1:CS:279:VAL:HG11	1.94	0.47
1:IS:183:LEU:HD12	1:IS:187:ASN:HB2	1.96	0.47
1:KS:289:GLN:N	1:KS:326:GLU:OE2	2.42	0.47
1:C1:98:ASN:HD22	1:C1:99:MET:N	2.12	0.47
1:I1:372:VAL:HG12	2:PQ:11:MET:HE3	1.96	0.47
2:M1:21:ASN:O	2:M1:23:ARG:NH1	2.48	0.47
2:N1:1:MET:N	1:S8:150:ASN:ND2	2.61	0.47
1:X1:33:TRP:HZ2	1:I8:177:ASP:OD2	1.96	0.47
1:X1:206:LEU:HD12	1:X1:206:LEU:O	2.14	0.47
1:Y1:168:GLU:OE2	1:Z1:211:ASN:ND2	2.38	0.47
1:Z1:150:ASN:ND2	2:d7:1:MET:H3	2.10	0.47
1:f1:321:VAL:HG21	1:f1:327:PHE:CE2	2.49	0.47
1:g1:99:MET:HE1	1:gR:368:GLU:O	2.14	0.47
1:g1:259:PHE:CD1	1:CQ:259:PHE:CE1	2.98	0.47
1:i1:134:ASN:HA	1:i1:371:GLU:HA	1.97	0.47
3:A2:150:TYR:CD2	3:AB:37:GLU:HG3	2.36	0.47
3:A2:163:GLU:OE2	3:A2:241:LYS:NZ	2.43	0.47
5:E2:18:LEU:HD12	5:D9:60:ALA:CB	2.44	0.47
5:E2:140:ASP:CB	5:C2:139:LYS:HB3	2.01	0.47
5:N2:231:ASN:CA	5:CB:265:LEU:CD1	2.74	0.47
1:D3:71:ARG:HD3	1:D3:271:ILE:HD12	1.96	0.47
1:I3:80:ASP:OD2	1:I4:145:LEU:CG	2.63	0.47
1:K3:14:VAL:HG23	1:I4:14:VAL:HG21	1.96	0.47
1:Q3:145:LEU:CG	1:X4:80:ASP:OD2	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q3:367:PRO:HG3	1:X4:375:TRP:CZ3	2.47	0.47
2:c3:21:ASN:O	2:c3:23:ARG:NH1	2.48	0.47
1:C4:206:LEU:HD12	1:C4:206:LEU:O	2.14	0.47
1:I4:177:ASP:OD2	1:QL:33:TRP:HZ2	1.96	0.47
1:I4:221:ALA:C	1:QL:38:LYS:HE2	2.40	0.47
1:I4:321:VAL:HG21	1:I4:327:PHE:CE2	2.49	0.47
1:J4:55:PHE:O	1:J4:57:LYS:NZ	2.46	0.47
2:N4:1:MET:H3	1:i7:150:ASN:ND2	2.12	0.47
1:R4:101:LEU:N	1:DD:25:PHE:O	2.47	0.47
1:S4:14:VAL:HG21	1:IQ:14:VAL:CB	2.43	0.47
1:T4:29:TYR:O	1:BS:315:ALA:HB2	2.13	0.47
1:X4:14:VAL:HG23	1:BR:14:VAL:HG21	1.94	0.47
1:X4:145:LEU:CG	1:CR:80:ASP:OD2	2.63	0.47
2:b4:45:ILE:CG1	2:b4:46:HIS:H	2.23	0.47
1:f4:29:TYR:HH	1:C6:302:ASP:CG	2.06	0.47
1:f4:38:LYS:HE2	1:C6:221:ALA:C	2.40	0.47
1:f4:209:GLN:NE2	1:f4:235:LEU:HB2	2.28	0.47
1:g4:85:TYR:HH	1:YG:46:PHE:HD1	1.60	0.47
1:h4:14:VAL:HG21	1:gG:14:VAL:HG23	1.94	0.47
5:C5:275:ASN:CG	5:OI:355:GLN:OE1	2.55	0.47
5:O5:178:ILE:HD11	5:O5:185:MET:HE3	1.95	0.47
2:P6:31:SER:O	2:c7:45:ILE:HG23	2.13	0.47
2:X6:11:MET:HE3	1:Q8:372:VAL:HG12	1.96	0.47
2:c6:21:ASN:O	2:c6:23:ARG:NH1	2.48	0.47
2:c6:38:GLU:N	2:c6:38:GLU:CD	2.72	0.47
2:f6:31:SER:O	2:U7:45:ILE:HG23	2.13	0.47
1:g6:208:LEU:HD12	1:g6:391:ILE:HD11	1.89	0.47
1:h6:259:PHE:CD1	1:AE:259:PHE:CE1	2.98	0.47
1:i6:14:VAL:HA	1:DJ:45:MET:CB	2.33	0.47
1:j6:152:ALA:HB1	2:k6:8:ARG:HH22	1.80	0.47
2:k6:21:ASN:O	2:k6:23:ARG:NH1	2.48	0.47
1:C7:120:LEU:O	1:DP:37:ASP:N	2.47	0.47
1:D7:100:ASP:CA	1:BP:25:PHE:O	2.61	0.47
2:F7:10:MET:HG2	1:BQ:365:HIS:HD2	1.79	0.47
1:Q7:86:SER:HB2	1:S7:60:GLU:HB2	1.95	0.47
1:R7:345:LEU:HD11	1:R7:350:ILE:HD11	1.96	0.47
1:Y7:115:ARG:NH2	1:a7:299:ALA:O	2.47	0.47
1:Y7:145:LEU:CG	1:QQ:80:ASP:OD2	2.62	0.47
1:A8:200:LYS:HA	1:A8:203:GLU:HG3	1.96	0.47
2:E8:21:ASN:O	2:E8:23:ARG:NH1	2.48	0.47
1:L8:325:LYS:NZ	1:L8:325:LYS:CB	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:80:ASP:OD2	1:IG:145:LEU:CG	2.63	0.47
1:g8:53:TYR:CG	1:KS:223:GLY:HA2	2.44	0.47
5:D9:41:ASN:ND2	3:AB:11:GLU:C	2.72	0.47
3:AA:154:ILE:O	3:AA:154:ILE:CG2	2.63	0.47
4:BA:119:GLU:HB2	4:BA:218:GLN:H	1.78	0.47
3:AB:112:ILE:C	2:MD:22:LYS:H	2.22	0.47
3:AB:163:GLU:OE2	3:AB:241:LYS:NZ	2.43	0.47
4:BB:150:ASP:O	4:BF:188:ASP:HA	2.13	0.47
3:AC:104:GLN:CA	1:KP:359:MET:HE2	2.43	0.47
5:FC:31:PHE:CE2	5:FH:46:TYR:CG	2.74	0.47
1:AD:297:LEU:HD12	1:KK:29:TYR:OH	2.00	0.47
1:BD:172:ARG:HA	1:BD:175:LEU:HD23	1.96	0.47
1:DD:216:ASN:ND2	1:DD:229:TYR:O	2.46	0.47
2:FD:15:TYR:HD2	1:KS:149:THR:N	2.05	0.47
1:KD:19:LYS:HE2	1:KS:45:MET:CE	2.43	0.47
1:KD:50:VAL:CG2	1:KS:137:ASP:CG	2.79	0.47
2:ND:12:GLY:C	2:ND:14:SER:H	2.20	0.47
1:KE:221:ALA:C	1:QQ:38:LYS:HE2	2.40	0.47
1:ME:259:PHE:O	1:ME:260:GLN:CG	2.62	0.47
1:NE:152:ALA:HB1	2:OE:8:ARG:HH22	1.80	0.47
2:OE:21:ASN:O	2:OE:23:ARG:NH1	2.48	0.47
1:SE:321:VAL:HG21	1:SE:327:PHE:CE2	2.49	0.47
1:VE:94:THR:OG1	1:LG:159:LYS:NZ	2.34	0.47
2:WE:21:ASN:O	2:WE:23:ARG:NH1	2.48	0.47
3:AF:24:ARG:HD3	3:AF:169:LEU:HB2	1.95	0.47
5:CF:178:ILE:HD11	5:CF:185:MET:HE3	1.95	0.47
1:CG:58:ILE:HD11	1:ZL:87:GLU:HB2	1.95	0.47
1:IG:321:VAL:HG21	1:IG:327:PHE:CE2	2.49	0.47
2:XG:31:SER:O	2:ER:45:ILE:HG23	2.13	0.47
1:iG:129:GLN:NE2	1:iG:159:LYS:O	2.41	0.47
3:AH:51:VAL:HG21	3:AH:299:ILE:HD11	1.95	0.47
3:AH:63:ARG:HE	3:AH:285:ARG:HH22	1.62	0.47
3:AH:73:ALA:HB1	3:AH:120:LEU:HB3	1.96	0.47
5:OH:388:LYS:O	5:OH:388:LYS:HG3	2.13	0.47
4:BI:3:ARG:CB	3:AN:194:ASN:HD22	2.12	0.47
1:DJ:173:ALA:HB2	1:DJ:279:VAL:HG11	1.94	0.47
1:LJ:369:PHE:CB	1:AS:108:MET:HE2	2.44	0.47
1:BK:197:LEU:HD13	1:BK:340:LEU:HD13	1.95	0.47
1:CK:370:ASP:OD2	1:hR:361:LYS:CE	2.61	0.47
1:LK:144:THR:CA	1:DP:82:ILE:CD1	2.54	0.47
1:LK:372:VAL:HG21	2:FP:10:MET:CB	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CL:86:SER:HB2	1:BL:60:GLU:HB2	1.95	0.47
1:BL:150:ASN:HD21	2:NL:1:MET:H2	1.59	0.47
1:IL:14:VAL:HG21	1:KQ:14:VAL:HG23	1.96	0.47
1:LL:134:ASN:HA	1:LL:371:GLU:HA	1.97	0.47
1:QL:321:VAL:HG21	1:QL:327:PHE:CE2	2.49	0.47
1:RL:99:MET:HE1	1:YL:368:GLU:O	2.14	0.47
1:YL:38:LYS:HE2	1:QR:221:ALA:C	2.40	0.47
3:AM:156:ILE:HD12	3:AM:159:HIS:HB3	1.97	0.47
5:DM:60:ALA:CB	5:EO:18:LEU:HD12	2.44	0.47
5:ON:178:ILE:HD11	5:ON:185:MET:HE3	1.95	0.47
5:NO:388:LYS:HG3	5:NO:388:LYS:O	2.13	0.47
5:OO:178:ILE:HD11	5:OO:185:MET:HE3	1.95	0.47
1:AP:62:LEU:CD2	1:KP:88:GLU:HG2	2.43	0.47
1:AP:63:LEU:HD23	1:KP:89:TYR:CZ	2.49	0.47
1:BP:197:LEU:HD13	1:BP:340:LEU:HD13	1.95	0.47
1:BP:240:ILE:HG13	1:BP:270:VAL:HA	1.96	0.47
1:KP:87:GLU:HB3	1:KP:120:LEU:HA	1.96	0.47
1:CQ:115:ARG:NH2	1:BQ:299:ALA:O	2.47	0.47
1:LQ:71:ARG:HD3	1:LQ:271:ILE:HD12	1.96	0.47
1:RQ:99:MET:HE1	1:QR:368:GLU:O	2.14	0.47
1:SQ:259:PHE:O	1:SQ:260:GLN:CG	2.62	0.47
1:YQ:123:ASN:ND2	1:AS:21:ALA:CB	2.77	0.47
1:bQ:115:ARG:NH2	1:dQ:299:ALA:O	2.47	0.47
2:gQ:1:MET:H3	1:iR:150:ASN:HD21	1.59	0.47
1:BR:291:GLN:NE2	1:BR:295:ASP:OD2	2.47	0.47
2:ER:21:ASN:O	2:ER:23:ARG:NH1	2.48	0.47
1:IR:206:LEU:HD12	1:IR:206:LEU:O	2.14	0.47
1:ZR:200:LYS:HA	1:ZR:203:GLU:HG3	1.96	0.47
1:bR:71:ARG:HD3	1:bR:271:ILE:HD12	1.96	0.47
1:C1:38:LYS:HE2	1:bQ:221:ALA:C	2.40	0.47
1:C1:221:ALA:C	1:Y8:38:LYS:HE2	2.40	0.47
1:B1:365:HIS:HD2	2:c4:10:MET:HG2	1.79	0.47
1:I1:80:ASP:OD2	1:Y6:145:LEU:CG	2.63	0.47
1:I1:177:ASP:OD2	1:Y6:33:TRP:HZ2	1.96	0.47
1:I1:221:ALA:C	1:Y6:38:LYS:HE2	2.40	0.47
1:Q1:38:LYS:HE2	1:IG:221:ALA:C	2.40	0.47
1:Q1:321:VAL:HG21	1:Q1:327:PHE:CE2	2.49	0.47
1:R1:101:LEU:N	1:CS:25:PHE:O	2.47	0.47
1:R1:110:LYS:O	1:Q6:130:LYS:NZ	2.41	0.47
1:S1:47:GLU:O	1:Q8:21:ALA:HB3	2.12	0.47
1:T1:71:ARG:HD3	1:T1:271:ILE:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X1:46:PHE:CD1	1:J6:85:TYR:HE2	2.31	0.47
1:X1:372:VAL:HG12	2:X3:11:MET:HE3	1.96	0.47
1:Y1:91:ILE:O	1:I6:158:LYS:HE2	2.15	0.47
2:c1:10:MET:HG2	1:aR:365:HIS:HD2	1.79	0.47
2:e1:31:SER:O	2:kG:45:ILE:HG23	2.13	0.47
1:f1:14:VAL:HG21	1:B3:14:VAL:HG23	1.96	0.47
2:j1:21:ASN:O	2:j1:23:ARG:NH1	2.48	0.47
2:m1:11:MET:HE3	1:gR:372:VAL:HG12	1.96	0.47
4:B2:150:ASP:O	4:BB:188:ASP:HA	2.13	0.47
5:D2:60:ALA:CB	5:EB:18:LEU:HD12	2.44	0.47
5:E2:140:ASP:O	5:C2:140:ASP:HA	2.15	0.47
5:N2:388:LYS:O	5:N2:388:LYS:HG3	2.13	0.47
5:O2:178:ILE:HD11	5:O2:185:MET:HE3	1.95	0.47
1:C3:14:VAL:CB	1:SG:14:VAL:HG21	2.43	0.47
1:C3:86:SER:HB2	1:B3:60:GLU:HB2	1.95	0.47
1:C3:145:LEU:CG	1:QG:80:ASP:OD2	2.63	0.47
1:C3:259:PHE:CE1	1:h7:259:PHE:CD1	2.98	0.47
2:F3:10:MET:HG2	1:CE:365:HIS:HD2	1.79	0.47
1:I3:221:ALA:C	1:I4:38:LYS:HE2	2.40	0.47
1:K3:291:GLN:NE2	1:K3:295:ASP:OD2	2.47	0.47
1:Q3:139:ARG:HD2	1:X4:81:PHE:HE2	1.63	0.47
2:U3:21:ASN:O	2:U3:23:ARG:NH1	2.48	0.47
1:C4:98:ASN:HD22	1:C4:99:MET:N	2.12	0.47
1:C4:221:ALA:C	1:aE:38:LYS:HE2	2.40	0.47
1:C4:279:VAL:HG12	1:C4:318:THR:HA	1.95	0.47
1:I4:58:ILE:HD11	1:A8:87:GLU:HB2	1.95	0.47
1:I4:63:LEU:HD13	1:A8:89:TYR:HE2	1.71	0.47
1:L4:159:LYS:NZ	1:j7:94:THR:OG1	2.34	0.47
2:M4:45:ILE:HG13	2:M4:46:HIS:H	1.66	0.47
1:Q4:14:VAL:HG23	1:KL:14:VAL:HG21	1.94	0.47
1:Q4:80:ASP:OD2	1:IQ:145:LEU:CG	2.63	0.47
1:R4:89:TYR:CE1	1:g8:61:THR:CG2	2.94	0.47
1:X4:14:VAL:CB	1:BR:14:VAL:HG21	2.43	0.47
1:g4:223:GLY:CA	1:CD:53:TYR:CD1	2.92	0.47
1:i4:27:HIS:CD2	1:CD:312:PRO:HG3	2.50	0.47
2:j4:31:SER:HB3	2:l4:45:ILE:HG21	1.97	0.47
3:A5:58:LEU:HD11	3:A5:143:MET:HE1	1.96	0.47
4:B5:250:ILE:HD12	3:AH:208:LYS:C	2.30	0.47
1:C6:38:LYS:HE2	1:gG:221:ALA:C	2.40	0.47
1:C6:86:SER:HB2	1:B6:60:GLU:HB2	1.95	0.47
1:C6:98:ASN:HD22	1:C6:99:MET:N	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:345:LEU:HD11	1:A6:350:ILE:HD11	1.95	0.47
1:I6:98:ASN:HD22	1:I6:99:MET:N	2.12	0.47
1:I6:368:GLU:O	1:JL:99:MET:HE1	2.14	0.47
1:I6:372:VAL:HG12	2:PL:11:MET:HE3	1.96	0.47
1:S6:31:LYS:HB2	1:AS:314:GLY:O	2.15	0.47
1:S6:47:GLU:CB	1:CS:20:SER:CB	2.89	0.47
1:Y6:62:LEU:CD1	2:RE:53:PHE:O	2.62	0.47
1:Y6:259:PHE:CE1	1:LE:259:PHE:CD1	2.98	0.47
1:Y6:372:VAL:HG12	2:PG:11:MET:HE3	1.96	0.47
1:Z6:91:ILE:O	1:KE:158:LYS:HE2	2.15	0.47
1:g6:115:ARG:NH2	1:i6:299:ALA:O	2.47	0.47
1:g6:158:LYS:HE2	1:BE:91:ILE:O	2.15	0.47
1:i6:259:PHE:O	1:i6:260:GLN:CG	2.62	0.47
1:j6:103:LYS:HB2	1:BJ:369:PHE:HZ	1.80	0.47
1:C7:32:SER:HB2	1:LK:174:MET:HE2	1.95	0.47
1:A7:91:ILE:O	1:gR:158:LYS:HE2	2.15	0.47
1:I7:86:SER:HB2	1:K7:60:GLU:HB2	1.95	0.47
1:L7:134:ASN:HA	1:L7:371:GLU:HA	1.97	0.47
1:Q7:14:VAL:HG21	1:aL:14:VAL:HG23	1.96	0.47
1:Q7:38:LYS:HE2	1:YL:221:ALA:C	2.40	0.47
1:Q7:80:ASP:OD2	1:QR:145:LEU:CG	2.63	0.47
1:Q7:259:PHE:CE1	1:RQ:259:PHE:CD1	2.98	0.47
2:V7:1:MET:N	1:ME:150:ASN:ND2	2.61	0.47
1:Y7:38:LYS:HE2	1:QQ:221:ALA:C	2.40	0.47
1:Y7:80:ASP:OD2	1:KE:145:LEU:CG	2.63	0.47
1:Z7:168:GLU:OE2	1:a7:211:ASN:ND2	2.38	0.47
1:g7:321:VAL:HG21	1:g7:327:PHE:CE2	2.49	0.47
1:i7:362:PRO:HA	1:i7:363:PRO:HD3	1.79	0.47
1:C8:80:ASP:OD2	1:AE:145:LEU:CG	2.63	0.47
1:C8:177:ASP:OD2	1:AE:33:TRP:HZ2	1.96	0.47
1:C8:221:ALA:C	1:AE:38:LYS:HE2	2.40	0.47
2:H8:11:MET:HE3	1:QL:372:VAL:HG12	1.96	0.47
1:I8:33:TRP:HZ2	1:IR:177:ASP:OD2	1.96	0.47
1:Q8:221:ALA:C	1:IG:38:LYS:HE2	2.40	0.47
1:S8:291:GLN:NE2	1:S8:295:ASP:OD2	2.47	0.47
1:Y8:115:ARG:NH2	1:a8:299:ALA:O	2.47	0.47
1:Y8:209:GLN:NE2	1:Y8:235:LEU:HB2	2.28	0.47
2:d8:31:SER:HB3	2:f8:45:ILE:HG21	1.97	0.47
1:g8:98:ASN:HD22	1:g8:99:MET:N	2.12	0.47
1:g8:206:LEU:HD12	1:g8:206:LEU:O	2.14	0.47
2:k8:38:GLU:N	2:k8:38:GLU:CD	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A9:154:ILE:N	1:AK:145:LEU:HG	2.13	0.47
3:A9:156:ILE:HD12	3:A9:159:HIS:HB3	1.97	0.47
5:C9:178:ILE:HD13	5:C9:185:MET:HG2	1.95	0.47
5:CA:388:LYS:O	5:CA:388:LYS:HG3	2.13	0.47
5:OA:178:ILE:HD11	5:OA:185:MET:HE3	1.95	0.47
3:AB:154:ILE:N	1:AD:135:ASN:HD21	2.11	0.47
5:OB:178:ILE:HD11	5:OB:185:MET:HE3	1.95	0.47
5:CC:244:ALA:HB2	5:OH:351:ASN:O	2.15	0.47
1:AD:183:LEU:HD12	1:AD:187:ASN:HB2	1.96	0.47
1:KD:137:ASP:OD2	1:KS:49:PHE:HB3	2.14	0.47
2:HE:1:MET:HE1	2:HP:54:THR:HA	1.96	0.47
3:AF:73:ALA:HB1	3:AF:120:LEU:HB3	1.96	0.47
3:AF:176:MET:HE3	3:AM:201:TYR:OH	2.13	0.47
1:AG:87:GLU:HB2	1:YL:58:ILE:HD11	1.95	0.47
2:EG:21:ASN:O	2:EG:23:ARG:NH1	2.48	0.47
1:aG:45:MET:HE2	1:DK:39:TRP:HZ3	1.78	0.47
2:fG:2:TYR:HB2	2:HL:55:GLY:HA3	1.94	0.47
1:gG:115:ARG:NH2	1:iG:299:ALA:O	2.47	0.47
1:jG:134:ASN:HA	1:jG:371:GLU:HA	1.97	0.47
1:jG:152:ALA:HB1	2:kG:8:ARG:HH22	1.80	0.47
2:kG:21:ASN:O	2:kG:23:ARG:NH1	2.48	0.47
3:AH:58:LEU:HD11	3:AH:143:MET:HE1	1.96	0.47
4:BI:195:LYS:H	4:BO:144:GLN:NE2	2.09	0.47
5:EI:37:ASP:OD2	3:AN:197:VAL:HG23	2.11	0.47
5:CI:244:ALA:HB2	5:OO:351:ASN:O	2.15	0.47
5:OI:178:ILE:HD11	5:OI:185:MET:HE3	1.95	0.47
1:AJ:183:LEU:HD12	1:AJ:187:ASN:HB2	1.96	0.47
1:BJ:104:ASN:ND2	1:BJ:106:GLU:OE2	2.46	0.47
1:DJ:240:ILE:HG22	1:DJ:344:ILE:HG23	1.95	0.47
1:KJ:87:GLU:HB3	1:KJ:120:LEU:HA	1.96	0.47
2:MJ:15:TYR:C	1:JS:145:LEU:HD23	2.26	0.47
1:CK:174:MET:HG2	1:CK:382:LYS:HD3	1.95	0.47
1:CK:312:PRO:HG3	1:jR:27:HIS:CD2	2.50	0.47
1:DL:134:ASN:HA	1:DL:371:GLU:HA	1.97	0.47
1:KL:259:PHE:O	1:KL:260:GLN:CG	2.62	0.47
2:ML:21:ASN:O	2:ML:23:ARG:NH1	2.48	0.47
1:TL:71:ARG:HD3	1:TL:271:ILE:HD12	1.96	0.47
1:TL:152:ALA:HB1	2:UL:8:ARG:HH22	1.80	0.47
2:UL:38:GLU:N	2:UL:38:GLU:CD	2.72	0.47
3:AM:58:LEU:HD11	3:AM:143:MET:HE1	1.96	0.47
3:AN:154:ILE:CG2	3:AN:154:ILE:O	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DP:240:ILE:HG22	1:DP:344:ILE:HG23	1.95	0.47
1:LP:184:SER:OG	1:LP:219:HIS:NE2	2.46	0.47
1:CQ:372:VAL:HG12	2:iQ:11:MET:HE3	1.96	0.47
1:BQ:129:GLN:NE2	1:BQ:159:LYS:O	2.41	0.47
1:DQ:71:ARG:HD3	1:DQ:271:ILE:HD12	1.96	0.47
1:IQ:86:SER:HB2	1:KQ:60:GLU:HB2	1.95	0.47
1:IQ:321:VAL:HG21	1:IQ:327:PHE:CE2	2.49	0.47
2:XQ:9:SER:HB2	1:QR:363:PRO:HG2	1.95	0.47
2:ZQ:21:ASN:O	2:ZQ:23:ARG:NH1	2.48	0.47
1:eQ:152:ALA:HB1	2:fQ:8:ARG:HH22	1.80	0.47
1:IR:86:SER:HB2	1:KR:60:GLU:HB2	1.95	0.47
1:QR:208:LEU:HD12	1:QR:391:ILE:HD11	1.89	0.47
2:UR:45:ILE:CG1	2:UR:46:HIS:H	2.23	0.47
1:gR:98:ASN:HD22	1:gR:99:MET:N	2.12	0.47
1:hR:345:LEU:HD11	1:hR:350:ILE:HD11	1.96	0.47
1:CS:350:ILE:HG22	1:CS:384:ILE:HG13	1.97	0.47
1:IS:62:LEU:CD2	1:JS:88:GLU:HG2	2.43	0.47
1:JS:136:ASN:OD1	1:JS:137:ASP:N	2.47	0.47
1:I1:321:VAL:HG21	1:I1:327:PHE:CE2	2.49	0.47
1:J1:91:ILE:O	1:IG:158:LYS:HE2	2.15	0.47
2:P1:11:MET:HE3	1:Q1:372:VAL:HG12	1.96	0.47
2:P1:22:LYS:HG2	1:IG:360:LEU:HD22	1.91	0.47
1:Q1:33:TRP:HZ2	1:IG:177:ASP:OD2	1.96	0.47
1:R1:91:ILE:O	1:Q6:158:LYS:HE2	2.15	0.47
1:X1:14:VAL:HG21	1:K8:14:VAL:HG23	1.96	0.47
1:X1:321:VAL:HG21	1:X1:327:PHE:CE2	2.49	0.47
2:e1:53:PHE:O	1:I6:62:LEU:CD1	2.62	0.47
1:f1:38:LYS:HE2	1:C3:221:ALA:C	2.40	0.47
1:h1:259:PHE:O	1:h1:260:GLN:CG	2.62	0.47
1:h1:291:GLN:NE2	1:h1:295:ASP:OD2	2.47	0.47
2:j1:45:ILE:HG23	2:iQ:31:SER:O	2.13	0.47
2:k1:10:MET:HG2	1:K7:365:HIS:HD2	1.79	0.47
3:A2:58:LEU:HD11	3:A2:143:MET:HE1	1.96	0.47
4:B2:195:LYS:H	4:B9:144:GLN:NE2	2.09	0.47
5:F2:87:GLN:HG3	5:F2:91:LEU:HD23	1.96	0.47
1:C3:38:LYS:HE2	1:QG:221:ALA:C	2.40	0.47
1:C3:321:VAL:HG21	1:C3:327:PHE:CE2	2.49	0.47
1:K3:150:ASN:ND2	2:F8:1:MET:N	2.61	0.47
2:P3:11:MET:HE3	1:IG:372:VAL:HG12	1.96	0.47
1:S3:291:GLN:NE2	1:S3:295:ASP:OD2	2.47	0.47
2:U3:38:GLU:N	2:U3:38:GLU:CD	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c3:45:ILE:HG23	2:W4:31:SER:O	2.13	0.47
1:D4:134:ASN:HA	1:D4:371:GLU:HA	1.97	0.47
2:E4:21:ASN:O	2:E4:23:ARG:NH1	2.48	0.47
2:E4:38:GLU:N	2:E4:38:GLU:CD	2.72	0.47
1:I4:158:LYS:HE2	1:A8:91:ILE:O	2.15	0.47
1:K4:291:GLN:NE2	1:K4:295:ASP:OD2	2.47	0.47
2:P4:2:TYR:HB2	2:n6:55:GLY:HA3	1.94	0.47
2:P4:11:MET:HE3	1:AE:372:VAL:HG12	1.96	0.47
1:R4:110:LYS:NZ	1:IS:104:ASN:CB	2.66	0.47
1:R4:200:LYS:HA	1:R4:203:GLU:HG3	1.96	0.47
1:X4:368:GLU:O	1:bE:99:MET:HE1	2.15	0.47
1:f4:115:ARG:NH2	1:h4:299:ALA:O	2.47	0.47
1:i4:372:VAL:HG11	2:HD:11:MET:HG3	1.13	0.47
3:A5:83:TYR:O	1:AJ:157:LYS:CD	2.60	0.47
5:E5:25:ARG:NH1	5:DI:54:LYS:CD	2.71	0.47
5:F5:105:ILE:O	5:F5:110:LYS:HB2	2.14	0.47
5:C5:244:ALA:HB2	5:OI:351:ASN:O	2.15	0.47
1:C6:33:TRP:HZ2	1:gG:177:ASP:OD2	1.96	0.47
1:B6:365:HIS:HD2	2:dG:10:MET:HG2	1.79	0.47
1:I6:38:LYS:HE2	1:YR:221:ALA:C	2.40	0.47
1:I6:115:ARG:NH2	1:K6:299:ALA:O	2.47	0.47
1:J6:345:LEU:HD11	1:J6:350:ILE:HD11	1.96	0.47
1:L6:134:ASN:HA	1:L6:371:GLU:HA	1.97	0.47
2:U6:21:ASN:O	2:U6:23:ARG:NH1	2.48	0.47
2:U6:45:ILE:CG1	2:U6:46:HIS:H	2.23	0.47
1:Y6:58:ILE:HD11	1:LE:87:GLU:HB2	1.95	0.47
1:Y6:206:LEU:HD12	1:Y6:206:LEU:O	2.14	0.47
1:a6:150:ASN:HD21	2:NQ:1:MET:H2	1.61	0.47
1:a6:365:HIS:HD2	2:NQ:10:MET:HG2	1.79	0.47
1:b6:134:ASN:HA	1:b6:371:GLU:HA	1.97	0.47
1:g6:30:SER:CA	1:LP:315:ALA:HB2	2.45	0.47
1:g6:54:LEU:HD23	1:LP:118:THR:CG2	2.43	0.47
1:h6:87:GLU:HB2	1:AE:58:ILE:HD11	1.95	0.47
1:C7:29:TYR:HD2	1:LK:317:PHE:HE1	1.01	0.47
1:C7:62:LEU:CD1	2:mR:53:PHE:O	2.62	0.47
1:C7:158:LYS:HE2	1:hR:91:ILE:O	2.15	0.47
1:C7:206:LEU:HD12	1:C7:206:LEU:O	2.14	0.47
1:C7:321:VAL:HG21	1:C7:327:PHE:CE2	2.49	0.47
1:I7:80:ASP:OD2	1:CQ:145:LEU:CG	2.63	0.47
1:I7:81:PHE:CE2	1:CQ:139:ARG:CD	2.71	0.47
1:K7:14:VAL:HG21	1:CQ:14:VAL:CB	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N7:1:MET:N	1:a8:150:ASN:ND2	2.61	0.47
1:Q7:58:ILE:HD11	1:RQ:87:GLU:HB2	1.95	0.47
1:Q7:206:LEU:HD12	1:Q7:206:LEU:O	2.14	0.47
1:Q7:363:PRO:HG2	2:HG:9:SER:HB2	1.95	0.47
1:R7:99:MET:HE1	1:Y7:368:GLU:O	2.14	0.47
1:S7:259:PHE:O	1:S7:260:GLN:CG	2.62	0.47
2:V7:31:SER:HB3	2:X7:45:ILE:HG21	1.97	0.47
1:Y7:14:VAL:HG21	1:SQ:14:VAL:HG23	1.96	0.47
1:a7:14:VAL:HG21	1:KE:14:VAL:CB	2.43	0.47
2:f7:53:PHE:O	1:IR:62:LEU:CD1	2.62	0.47
1:g7:115:ARG:NH2	1:i7:299:ALA:O	2.47	0.47
2:l7:10:MET:HG2	1:SG:365:HIS:HD2	1.79	0.47
1:C8:321:VAL:HG21	1:C8:327:PHE:CE2	2.49	0.47
1:B8:259:PHE:O	1:B8:260:GLN:CG	2.62	0.47
1:I8:38:LYS:HE2	1:IR:221:ALA:C	2.40	0.47
1:I8:115:ARG:NH2	1:K8:299:ALA:O	2.47	0.47
1:I8:209:GLN:NE2	1:I8:235:LEU:HB2	2.28	0.47
1:a8:14:VAL:HG21	1:bQ:14:VAL:HG23	1.94	0.47
1:g8:279:VAL:HG12	1:g8:318:THR:HA	1.95	0.47
1:h8:345:LEU:HD11	1:h8:350:ILE:HD11	1.95	0.47
1:i8:135:ASN:O	1:BD:81:PHE:CE2	2.68	0.47
1:j8:134:ASN:HA	1:j8:371:GLU:HA	1.97	0.47
1:j8:152:ALA:HB1	2:k8:8:ARG:HH22	1.80	0.47
2:k8:21:ASN:O	2:k8:23:ARG:NH1	2.48	0.47
3:A9:51:VAL:HG21	3:A9:299:ILE:HD11	1.95	0.47
5:C9:178:ILE:HD11	5:C9:185:MET:HE3	1.95	0.47
3:AA:11:GLU:C	5:DH:41:ASN:ND2	2.72	0.47
3:AA:63:ARG:HE	3:AA:285:ARG:HH22	1.62	0.47
3:AA:73:ALA:HB1	3:AA:120:LEU:HB3	1.96	0.47
5:DB:41:ASN:ND2	3:AM:11:GLU:C	2.72	0.47
5:DB:60:ALA:CB	5:EF:18:LEU:HD12	2.44	0.47
5:EB:62:ARG:HH22	5:EF:17:PHE:HB2	1.78	0.47
5:EB:140:ASP:HB3	5:CB:139:LYS:HZ3	1.73	0.47
5:FB:105:ILE:O	5:FB:110:LYS:HB2	2.14	0.47
3:AC:63:ARG:HD3	3:AC:145:ASN:HD21	1.78	0.47
3:AC:63:ARG:HE	3:AC:285:ARG:HH22	1.62	0.47
3:AC:73:ALA:HB1	3:AC:120:LEU:HB3	1.96	0.47
1:BD:71:ARG:HH22	1:BD:272:SER:H	1.62	0.47
1:BD:351:LYS:O	1:BD:382:LYS:HA	2.15	0.47
1:LD:139:ARG:O	1:DK:82:ILE:HA	2.15	0.47
1:DE:71:ARG:HD3	1:DE:271:ILE:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:152:ALA:HB1	2:EE:8:ARG:HH22	1.80	0.47
1:AE:167:GLU:OE2	1:AE:352:TYR:OH	2.26	0.47
1:BE:101:LEU:N	1:DJ:25:PHE:O	2.47	0.47
1:BE:104:ASN:HB2	1:BJ:110:LYS:NZ	2.29	0.47
1:BE:200:LYS:HA	1:BE:203:GLU:HG3	1.96	0.47
1:FE:134:ASN:HA	1:FE:371:GLU:HA	1.97	0.47
1:KE:115:ARG:NH2	1:ME:299:ALA:O	2.47	0.47
1:SE:115:ARG:NH2	1:UE:299:ALA:O	2.47	0.47
1:SE:360:LEU:HD22	2:PQ:22:LYS:HG2	1.91	0.47
1:TE:85:TYR:HE2	1:IQ:46:PHE:CD1	2.31	0.47
1:bE:91:ILE:O	1:CR:158:LYS:HE2	2.15	0.47
1:cE:150:ASN:HD21	2:dL:1:MET:H2	1.59	0.47
5:EF:140:ASP:CB	5:CF:139:LYS:HB3	2.01	0.47
5:FF:46:TYR:CD1	5:FM:31:PHE:CD2	3.01	0.47
5:NF:230:SER:C	5:CM:266:THR:CA	2.88	0.47
1:CG:115:ARG:NH2	1:BG:299:ALA:O	2.47	0.47
1:BG:150:ASN:HD21	2:VG:1:MET:H3	1.60	0.47
1:JG:55:PHE:O	1:JG:57:LYS:NZ	2.46	0.47
1:RG:200:LYS:HA	1:RG:203:GLU:HG3	1.96	0.47
1:TG:152:ALA:HB1	2:UG:8:ARG:HH22	1.80	0.47
1:bG:100:ASP:CA	1:BK:25:PHE:O	2.61	0.47
1:hG:91:ILE:O	1:CL:158:LYS:HE2	2.15	0.47
2:nG:11:MET:HE3	1:YR:372:VAL:HG12	1.96	0.47
3:AH:111:ASP:C	2:MP:19:ARG:CZ	2.79	0.47
3:AI:73:ALA:HB1	3:AI:120:LEU:HB3	1.96	0.47
3:AI:201:TYR:OH	3:AO:176:MET:HE3	2.13	0.47
5:NI:388:LYS:O	5:NI:388:LYS:HG3	2.13	0.47
1:BJ:30:SER:O	1:gL:315:ALA:HA	2.14	0.47
1:BJ:108:MET:HE2	1:LP:369:PHE:CB	2.44	0.47
1:BJ:290:ASN:ND2	1:BJ:325:LYS:HZ1	2.10	0.47
1:DJ:315:ALA:N	1:LP:31:LYS:CG	2.57	0.47
1:KJ:139:ARG:NH1	1:AP:81:PHE:HD2	1.72	0.47
1:KJ:143:GLN:O	1:AP:82:ILE:HG21	2.14	0.47
1:KJ:372:VAL:HB	2:MP:11:MET:HE2	0.99	0.47
1:BK:6:THR:HG21	1:jR:15:ALA:CB	2.43	0.47
1:BK:173:ALA:HB2	1:BK:279:VAL:HG11	1.97	0.47
2:HK:33:ASP:O	2:HK:36:LYS:NZ	2.39	0.47
1:KK:98:ASN:HD22	1:KP:29:TYR:C	2.22	0.47
1:LK:25:PHE:CA	1:BP:99:MET:C	2.51	0.47
1:CL:80:ASP:OD2	1:YR:145:LEU:CG	2.63	0.47
1:CL:115:ARG:NH2	1:BL:299:ALA:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:259:PHE:HD1	1:BL:259:PHE:CE2	2.32	0.47
1:BL:365:HIS:HD2	2:NL:10:MET:HG2	1.79	0.47
1:IL:38:LYS:HE2	1:IQ:221:ALA:C	2.40	0.47
1:IL:46:PHE:CD1	1:ZR:85:TYR:HE2	2.31	0.47
1:IL:321:VAL:HG21	1:IL:327:PHE:CE2	2.49	0.47
1:KL:129:GLN:NE2	1:KL:159:LYS:O	2.41	0.47
1:YL:115:ARG:NH2	1:aL:299:ALA:O	2.47	0.47
2:hL:38:GLU:N	2:hL:38:GLU:CD	2.72	0.47
3:AN:104:GLN:CG	2:MP:9:SER:CB	2.86	0.47
5:EN:140:ASP:O	5:CN:140:ASP:HA	2.15	0.47
1:BP:71:ARG:HH22	1:BP:272:SER:H	1.62	0.47
1:BP:162:ASP:HA	1:BP:165:VAL:HG12	1.97	0.47
1:CP:242:THR:HG21	1:CP:246:LEU:HD12	1.97	0.47
1:DP:216:ASN:ND2	1:DP:229:TYR:O	2.46	0.47
1:CQ:221:ALA:C	1:gR:38:LYS:HE2	2.40	0.47
1:AQ:200:LYS:HA	1:AQ:203:GLU:HG3	1.96	0.47
1:BQ:291:GLN:NE2	1:BQ:295:ASP:OD2	2.47	0.47
1:RQ:345:LEU:HD11	1:RQ:350:ILE:HD11	1.95	0.47
1:eQ:134:ASN:HA	1:eQ:371:GLU:HA	1.97	0.47
2:fQ:21:ASN:O	2:fQ:23:ARG:NH1	2.48	0.47
1:CR:279:VAL:HG12	1:CR:318:THR:HA	1.95	0.47
1:KR:291:GLN:NE2	1:KR:295:ASP:OD2	2.47	0.47
2:UR:21:ASN:O	2:UR:23:ARG:NH1	2.48	0.47
1:aR:129:GLN:NE2	1:aR:159:LYS:O	2.41	0.47
1:aR:291:GLN:NE2	1:aR:295:ASP:OD2	2.47	0.47
1:jR:134:ASN:HA	1:jR:371:GLU:HA	1.97	0.47
1:C1:115:ARG:NH2	1:B1:299:ALA:O	2.47	0.47
1:A1:91:ILE:O	1:C6:158:LYS:HE2	2.15	0.47
1:A1:345:LEU:HD11	1:A1:350:ILE:HD11	1.95	0.47
1:B1:14:VAL:HG21	1:Y8:14:VAL:HG23	1.94	0.47
1:B1:20:SER:HB2	1:Y8:47:GLU:H	1.80	0.47
1:I1:98:ASN:HD22	1:I1:99:MET:N	2.12	0.47
1:K1:259:PHE:O	1:K1:260:GLN:CG	2.62	0.47
1:L1:152:ALA:HB1	2:M1:8:ARG:HH22	1.80	0.47
1:Q1:14:VAL:HG21	1:KG:14:VAL:HG23	1.96	0.47
1:X1:62:LEU:CD1	2:P6:53:PHE:O	2.62	0.47
1:X1:115:ARG:NH2	1:Z1:299:ALA:O	2.47	0.47
1:X1:158:LYS:HE2	1:J6:91:ILE:O	2.15	0.47
2:b1:38:GLU:N	2:b1:38:GLU:CD	2.72	0.47
1:h1:129:GLN:NE2	1:h1:159:LYS:O	2.41	0.47
5:D2:26:GLU:CG	5:FB:27:ARG:HH11	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C3:14:VAL:HG21	1:SG:14:VAL:HG23	1.96	0.47
1:C3:33:TRP:HZ2	1:QG:177:ASP:OD2	1.96	0.47
1:C3:274:ASP:OD1	1:h7:207:ASN:HA	2.15	0.47
2:E3:21:ASN:O	2:E3:23:ARG:NH1	2.48	0.47
1:I3:21:ALA:HB3	1:SL:47:GLU:O	2.12	0.47
1:I3:206:LEU:HD12	1:I3:206:LEU:O	2.14	0.47
1:J3:64:ILE:CD1	1:K3:88:GLU:CG	2.93	0.47
1:L3:134:ASN:HA	1:L3:371:GLU:HA	1.97	0.47
1:Q3:86:SER:HB2	1:S3:60:GLU:HB2	1.95	0.47
1:Q3:115:ARG:NH2	1:S3:299:ALA:O	2.47	0.47
1:Q3:158:LYS:HE2	1:J8:91:ILE:O	2.15	0.47
1:R3:168:GLU:OE2	1:S3:211:ASN:ND2	2.38	0.47
1:S3:14:VAL:HG21	1:CR:14:VAL:HG23	1.94	0.47
1:T3:134:ASN:HA	1:T3:371:GLU:HA	1.97	0.47
2:V3:22:LYS:HD2	2:V3:22:LYS:HA	1.73	0.47
1:Y3:325:LYS:NZ	1:Y3:325:LYS:CB	2.73	0.47
1:b3:134:ASN:HA	1:b3:371:GLU:HA	1.97	0.47
1:C4:61:THR:CG2	1:RG:89:TYR:CE1	2.94	0.47
1:C4:274:ASP:OD1	1:RG:207:ASN:HA	2.15	0.47
1:B4:365:HIS:HD2	2:FR:10:MET:HG2	1.79	0.47
1:D4:152:ALA:HB1	2:E4:8:ARG:HH22	1.80	0.47
2:H4:2:TYR:HB2	2:n7:55:GLY:HA3	1.94	0.47
1:I4:206:LEU:HD12	1:I4:206:LEU:O	2.14	0.47
1:J4:85:TYR:HE2	1:C8:46:PHE:CD1	2.32	0.47
1:K4:14:VAL:HG23	1:QL:14:VAL:HG21	1.96	0.47
1:Q4:221:ALA:C	1:IQ:38:LYS:HE2	2.40	0.47
1:R4:207:ASN:HA	1:g8:274:ASP:OD1	2.15	0.47
1:R4:361:LYS:CE	1:BS:370:ASP:OD2	2.61	0.47
1:S4:14:VAL:HG23	1:IQ:14:VAL:HG21	1.96	0.47
1:S4:108:MET:CG	1:BS:366:ASN:OD1	2.32	0.47
1:T4:134:ASN:HA	1:T4:371:GLU:HA	1.97	0.47
1:X4:38:LYS:HE2	1:CR:221:ALA:C	2.40	0.47
1:f4:14:VAL:HG23	1:B6:14:VAL:HG21	1.94	0.47
1:f4:47:GLU:H	1:B6:20:SER:HB2	1.80	0.47
1:h4:19:LYS:NZ	1:h4:37:ASP:OD1	2.37	0.47
1:h4:150:ASN:ND2	2:FL:1:MET:N	2.61	0.47
1:h4:259:PHE:O	1:h4:260:GLN:CG	2.62	0.47
1:i4:134:ASN:HA	1:i4:371:GLU:HA	1.97	0.47
2:l4:54:THR:HG21	2:ND:1:MET:HE1	1.90	0.47
5:D5:60:ALA:CB	5:EN:18:LEU:HD12	2.44	0.47
5:O5:355:GLN:OE1	5:CN:275:ASN:CG	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I6:221:ALA:C	1:CL:38:LYS:HE2	2.40	0.47
1:Q6:54:LEU:HD23	1:LJ:118:THR:CG2	2.43	0.47
1:Q6:167:GLU:OE2	1:Q6:352:TYR:OH	2.26	0.47
1:R6:64:ILE:CD1	1:S6:88:GLU:CG	2.93	0.47
1:Z6:200:LYS:HA	1:Z6:203:GLU:HG3	1.96	0.47
1:a6:19:LYS:NZ	1:a6:37:ASP:OD1	2.37	0.47
1:j6:100:ASP:CA	1:BJ:25:PHE:O	2.61	0.47
1:C7:20:SER:CB	1:CK:47:GLU:HB3	2.41	0.47
1:C7:58:ILE:HD13	1:CK:55:PHE:HD2	1.78	0.47
1:C7:300:TYR:CA	1:hR:115:ARG:NH2	2.75	0.47
1:B7:291:GLN:NE2	1:B7:295:ASP:OD2	2.47	0.47
1:D7:103:LYS:HB2	1:BP:369:PHE:HZ	1.80	0.47
2:E7:38:GLU:N	2:E7:38:GLU:CD	2.72	0.47
1:I7:62:LEU:CD1	2:iQ:53:PHE:O	2.62	0.47
1:I7:115:ARG:NH2	1:K7:299:ALA:O	2.47	0.47
1:I7:158:LYS:HE2	1:cQ:91:ILE:O	2.15	0.47
1:J7:345:LEU:HD11	1:J7:350:ILE:HD11	1.96	0.47
1:Q7:145:LEU:CG	1:YL:80:ASP:OD2	2.63	0.47
2:U7:38:GLU:N	2:U7:38:GLU:CD	2.72	0.47
1:Y7:321:VAL:HG21	1:Y7:327:PHE:CE2	2.49	0.47
1:Z7:207:ASN:HA	1:IR:274:ASP:OD1	2.15	0.47
1:b7:71:ARG:HD3	1:b7:271:ILE:HD12	1.96	0.47
1:b7:152:ALA:HB1	2:c7:8:ARG:HH22	1.80	0.47
2:d7:31:SER:HB3	2:f7:45:ILE:HG21	1.97	0.47
1:j7:71:ARG:HD3	1:j7:271:ILE:HD12	1.96	0.47
1:I8:47:GLU:H	1:KR:20:SER:HB2	1.80	0.47
1:I8:145:LEU:CG	1:IR:80:ASP:OD2	2.63	0.47
1:Q8:206:LEU:HD12	1:Q8:206:LEU:O	2.14	0.47
1:R8:64:ILE:CD1	1:S8:88:GLU:CG	2.93	0.47
1:T8:134:ASN:HA	1:T8:371:GLU:HA	1.97	0.47
1:T8:152:ALA:HB1	2:U8:8:ARG:HH22	1.80	0.47
2:U8:38:GLU:N	2:U8:38:GLU:CD	2.72	0.47
2:U8:45:ILE:HG23	2:XR:31:SER:O	2.13	0.47
1:a8:259:PHE:O	1:a8:260:GLN:CG	2.62	0.47
1:b8:134:ASN:HA	1:b8:371:GLU:HA	1.97	0.47
1:j8:107:LEU:HD21	1:BD:369:PHE:HZ	1.78	0.47
4:B9:30:LEU:HB3	5:EC:64:TRP:CG	2.50	0.47
4:B9:195:LYS:H	4:BA:144:GLN:NE2	2.09	0.47
5:F9:31:PHE:CZ	5:FA:47:ASP:N	2.68	0.47
5:F9:31:PHE:CD2	5:FA:46:TYR:CD1	3.01	0.47
3:AA:114:PHE:CB	2:MK:9:SER:N	2.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CA:275:ASN:CG	5:OC:355:GLN:OE1	2.55	0.47
5:DB:45:TYR:HE2	5:EF:38:TYR:CB	2.28	0.47
5:EB:140:ASP:O	5:CB:140:ASP:HA	2.15	0.47
5:FB:87:GLN:HG3	5:FB:91:LEU:HD23	1.96	0.47
3:AC:6:ARG:CZ	5:DN:51:ARG:CB	2.93	0.47
3:AC:51:VAL:HG21	3:AC:299:ILE:HD11	1.95	0.47
4:BC:6:MET:HE3	5:FH:38:TYR:CE2	2.45	0.47
1:DD:89:TYR:CZ	1:KD:63:LEU:HB2	2.49	0.47
1:KD:98:ASN:HD22	1:KK:29:TYR:C	2.22	0.47
1:KD:136:ASN:OD1	1:KD:137:ASP:N	2.47	0.47
1:LD:47:GLU:OE1	1:KK:21:ALA:C	2.44	0.47
2:MD:8:ARG:HH22	1:KK:374:HIS:CE1	2.32	0.47
1:AE:206:LEU:HD12	1:AE:206:LEU:O	2.14	0.47
1:TE:99:MET:HE1	1:IL:368:GLU:O	2.15	0.47
1:TE:207:ASN:HA	1:IQ:274:ASP:OD1	2.15	0.47
1:VE:71:ARG:HD3	1:VE:271:ILE:HD12	1.96	0.47
1:aE:115:ARG:NH2	1:cE:299:ALA:O	2.47	0.47
1:aE:221:ALA:C	1:CG:38:LYS:HE2	2.40	0.47
3:AF:63:ARG:HD3	3:AF:145:ASN:HD21	1.78	0.47
1:CG:274:ASP:OD1	1:ZL:207:ASN:HA	2.15	0.47
1:CG:321:VAL:HG21	1:CG:327:PHE:CE2	2.49	0.47
1:AG:345:LEU:HD11	1:AG:350:ILE:HD11	1.95	0.47
2:FG:31:SER:HB3	2:HG:45:ILE:HG21	1.97	0.47
1:IG:206:LEU:HD12	1:IG:206:LEU:O	2.14	0.47
1:KG:129:GLN:NE2	1:KG:159:LYS:O	2.41	0.47
1:KG:291:GLN:NE2	1:KG:295:ASP:OD2	2.47	0.47
1:SG:291:GLN:NE2	1:SG:295:ASP:OD2	2.47	0.47
1:TG:134:ASN:HA	1:TG:371:GLU:HA	1.97	0.47
2:cG:45:ILE:CG1	2:cG:46:HIS:H	2.23	0.47
1:gG:279:VAL:HG12	1:gG:318:THR:HA	1.95	0.47
1:hG:345:LEU:HD11	1:hG:350:ILE:HD11	1.95	0.47
2:nG:53:PHE:O	1:CL:62:LEU:CD1	2.62	0.47
3:AI:11:GLU:C	5:DM:41:ASN:ND2	2.72	0.47
5:EI:18:LEU:HD12	5:DO:60:ALA:CB	2.44	0.47
1:BJ:21:ALA:CB	1:gL:123:ASN:ND2	2.77	0.47
1:BJ:197:LEU:HD13	1:BJ:340:LEU:HD13	1.95	0.47
1:CJ:70:ASN:HD22	1:CJ:168:GLU:HB3	1.80	0.47
1:KJ:106:GLU:HA	1:CS:109:LEU:CD1	1.92	0.47
2:NJ:55:GLY:HA3	2:ES:2:TYR:HB3	1.84	0.47
1:CK:81:PHE:CE2	1:jR:136:ASN:HA	2.50	0.47
1:DK:16:LYS:HB2	1:DK:19:LYS:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:184:SER:OG	1:LK:219:HIS:NE2	2.46	0.47
1:BL:14:VAL:HG23	1:YR:14:VAL:HG21	1.96	0.47
1:KL:291:GLN:NE2	1:KL:295:ASP:OD2	2.47	0.47
1:RL:91:ILE:O	1:QR:158:LYS:HE2	2.15	0.47
1:YL:14:VAL:CB	1:SR:14:VAL:HG21	2.43	0.47
1:YL:145:LEU:CG	1:QR:80:ASP:OD2	2.63	0.47
1:ZL:64:ILE:CD1	1:aL:88:GLU:CG	2.93	0.47
1:gL:152:ALA:HB1	2:hL:8:ARG:HH22	1.80	0.47
3:AM:63:ARG:HD3	3:AM:145:ASN:HD21	1.78	0.47
3:AM:154:ILE:O	3:AM:154:ILE:CG2	2.63	0.47
5:FM:87:GLN:HG3	5:FM:91:LEU:HD23	1.96	0.47
3:AN:24:ARG:HD3	3:AN:169:LEU:HB2	1.95	0.47
5:CN:178:ILE:HD13	5:CN:185:MET:HG2	1.95	0.47
5:EO:140:ASP:O	5:CO:140:ASP:HA	2.15	0.47
1:CP:41:ASN:ND2	1:CP:46:PHE:O	2.47	0.47
1:AQ:345:LEU:HD11	1:AQ:350:ILE:HD11	1.96	0.47
2:MQ:21:ASN:O	2:MQ:23:ARG:NH1	2.48	0.47
1:CR:115:ARG:NH2	1:BR:299:ALA:O	2.47	0.47
1:DR:134:ASN:HA	1:DR:371:GLU:HA	1.97	0.47
1:JR:345:LEU:HD11	1:JR:350:ILE:HD11	1.95	0.47
1:RR:64:ILE:CD1	1:SR:88:GLU:CG	2.93	0.47
2:UR:33:ASP:O	2:UR:36:LYS:NZ	2.43	0.47
1:ZR:345:LEU:HD11	1:ZR:350:ILE:HD11	1.96	0.47
1:gR:115:ARG:NH2	1:iR:299:ALA:O	2.47	0.47
1:AS:172:ARG:HA	1:AS:175:LEU:HD23	1.96	0.47
1:BS:41:ASN:ND2	1:BS:46:PHE:O	2.47	0.47
2:FS:39:ASP:O	2:FS:40:SER:OG	2.31	0.47
1:KS:147:ASP:N	1:KS:147:ASP:OD1	2.46	0.47
1:KS:185:GLU:HA	1:KS:188:VAL:HG12	1.95	0.47
1:C1:33:TRP:HZ2	1:bQ:177:ASP:OD2	1.96	0.47
1:C1:158:LYS:HE2	1:A6:91:ILE:O	2.15	0.47
1:D1:71:ARG:HD3	1:D1:271:ILE:HD12	1.96	0.47
2:E1:21:ASN:O	2:E1:23:ARG:NH1	2.48	0.47
1:I1:46:PHE:CD1	1:JG:85:TYR:HE2	2.32	0.47
1:I1:274:ASP:OD1	1:JG:207:ASN:HA	2.15	0.47
1:Q1:221:ALA:C	1:Q8:38:LYS:HE2	2.40	0.47
2:U1:1:MET:HE1	2:HJ:54:THR:HA	1.96	0.47
2:U1:31:SER:HB3	2:W1:45:ILE:HG21	1.97	0.47
1:X1:300:TYR:CA	1:J6:115:ARG:NH2	2.75	0.47
1:Z1:291:GLN:NE2	1:Z1:295:ASP:OD2	2.47	0.47
1:f1:46:PHE:CD1	1:AQ:85:TYR:HE2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f1:368:GLU:O	1:h7:99:MET:HE1	2.15	0.47
2:m1:53:PHE:O	1:CQ:62:LEU:CD1	2.62	0.47
3:A2:108:THR:O	3:A2:132:TYR:OH	2.32	0.47
1:C3:46:PHE:CD1	1:h7:85:TYR:HE2	2.31	0.47
1:C3:368:GLU:O	1:A4:99:MET:HE1	2.14	0.47
1:D3:134:ASN:HA	1:D3:371:GLU:HA	1.97	0.47
2:F3:31:SER:HB3	2:H3:45:ILE:HG21	1.97	0.47
1:I3:38:LYS:HE2	1:QL:221:ALA:C	2.40	0.47
1:I3:274:ASP:OD1	1:R8:207:ASN:HA	2.15	0.47
1:J3:207:ASN:HA	1:Q8:274:ASP:OD1	2.15	0.47
1:L3:152:ALA:HB1	2:M3:8:ARG:HH22	1.80	0.47
2:M3:38:GLU:N	2:M3:38:GLU:CD	2.72	0.47
2:M3:45:ILE:HG23	2:X6:31:SER:O	2.13	0.47
1:Q3:80:ASP:OD2	1:CR:145:LEU:CG	2.63	0.47
1:Q3:98:ASN:HD22	1:Q3:99:MET:N	2.12	0.47
1:Q3:206:LEU:HD12	1:Q3:206:LEU:O	2.14	0.47
1:S3:20:SER:HB2	1:CR:47:GLU:H	1.80	0.47
1:Y3:71:ARG:HD3	1:Y3:271:ILE:HD12	1.96	0.47
1:Y3:123:ASN:ND2	1:BK:21:ALA:CB	2.77	0.47
2:d3:11:MET:HE2	1:BD:372:VAL:CG2	2.44	0.47
1:C4:14:VAL:HG23	1:BG:14:VAL:HG21	1.94	0.47
1:C4:80:ASP:OD2	1:aE:145:LEU:CG	2.63	0.47
1:C4:177:ASP:OD2	1:aE:33:TRP:HZ2	1.96	0.47
1:A4:345:LEU:HD11	1:A4:350:ILE:HD11	1.95	0.47
1:I4:300:TYR:CA	1:A8:115:ARG:NH2	2.75	0.47
1:I4:368:GLU:O	1:R8:99:MET:HE1	2.14	0.47
1:I4:372:VAL:HG12	2:X8:11:MET:HE3	1.96	0.47
1:J4:207:ASN:HA	1:C8:274:ASP:OD1	2.15	0.47
1:K4:362:PRO:HA	1:K4:363:PRO:HD3	1.79	0.47
1:Q4:177:ASP:OD2	1:IQ:33:TRP:HZ2	1.96	0.47
1:S4:291:GLN:NE2	1:S4:295:ASP:OD2	2.47	0.47
1:S4:365:HIS:HD2	2:XE:10:MET:HG2	1.79	0.47
1:T4:141:ASN:ND2	1:AS:54:LEU:HD12	2.28	0.47
2:U4:22:LYS:HA	2:U4:22:LYS:HD2	1.73	0.47
1:X4:96:PRO:HD2	1:Z4:166:LEU:HG	1.97	0.47
1:X4:98:ASN:HD22	1:X4:99:MET:N	2.12	0.47
1:X4:274:ASP:OD1	1:Z8:207:ASN:HA	2.15	0.47
1:Y4:99:MET:HE1	1:bQ:368:GLU:O	2.15	0.47
1:Y4:200:LYS:HA	1:Y4:203:GLU:HG3	1.96	0.47
1:Z4:150:ASN:HD21	2:N8:1:MET:H2	1.62	0.47
1:a4:71:ARG:HD3	1:a4:271:ILE:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a4:152:ALA:HB1	2:b4:8:ARG:HH22	1.80	0.47
1:f4:80:ASP:OD2	1:gG:145:LEU:CG	2.63	0.47
1:g4:207:ASN:HA	1:YG:274:ASP:OD1	2.15	0.47
1:h4:20:SER:HB2	1:gG:47:GLU:H	1.80	0.47
2:j4:5:ASN:C	1:CD:153:LEU:HD11	2.34	0.47
4:B5:192:THR:CB	4:BI:147:THR:HG22	2.43	0.47
5:D5:41:ASN:ND2	3:AH:11:GLU:C	2.72	0.47
5:E5:140:ASP:O	5:C5:140:ASP:HA	2.15	0.47
5:N5:230:SER:C	5:CN:266:THR:CA	2.88	0.47
1:C6:115:ARG:NH2	1:B6:299:ALA:O	2.47	0.47
2:E6:21:ASN:O	2:E6:23:ARG:NH1	2.48	0.47
2:F6:10:MET:HG2	1:dQ:365:HIS:HD2	1.79	0.47
1:I6:145:LEU:CG	1:YR:80:ASP:OD2	2.63	0.47
1:I6:206:LEU:HD12	1:I6:206:LEU:O	2.14	0.47
2:N6:10:MET:HG2	1:K8:365:HIS:HD2	1.79	0.47
2:P6:11:MET:HE3	1:IR:372:VAL:HG12	1.96	0.47
1:Q6:375:TRP:CZ3	1:CS:367:PRO:CG	2.92	0.47
1:S6:57:LYS:CA	1:CS:143:GLN:HE21	2.27	0.47
1:S6:259:PHE:O	1:S6:260:GLN:CG	2.62	0.47
1:Y6:80:ASP:OD2	1:SE:145:LEU:CG	2.63	0.47
1:Y6:86:SER:HB2	1:a6:60:GLU:HB2	1.95	0.47
1:Y6:221:ALA:C	1:SE:38:LYS:HE2	2.40	0.47
1:b6:71:ARG:HD3	1:b6:271:ILE:HD12	1.96	0.47
2:f6:2:TYR:HB2	2:X7:55:GLY:HA3	1.94	0.47
1:g6:31:LYS:HE2	1:LP:314:GLY:CA	2.45	0.47
1:i6:135:ASN:O	1:BJ:81:PHE:CE2	2.68	0.47
1:C7:115:ARG:NH2	1:B7:299:ALA:O	2.47	0.47
1:I7:38:LYS:HE2	1:gR:221:ALA:C	2.40	0.47
1:I7:274:ASP:OD1	1:cQ:207:ASN:HA	2.15	0.47
1:I7:361:LYS:CE	1:CQ:370:ASP:OD1	2.63	0.47
1:J7:259:PHE:HD1	1:K7:259:PHE:CE2	2.32	0.47
1:K7:14:VAL:HG23	1:CQ:14:VAL:HG21	1.96	0.47
1:Q7:98:ASN:HD22	1:Q7:99:MET:N	2.12	0.47
1:Q7:370:ASP:OD1	1:YL:361:LYS:CE	2.63	0.47
1:S7:291:GLN:NE2	1:S7:295:ASP:OD2	2.47	0.47
1:T7:152:ALA:HB1	2:U7:8:ARG:HH22	1.80	0.47
1:Y7:96:PRO:HD2	1:a7:166:LEU:HG	1.97	0.47
1:g7:145:LEU:CG	1:AE:80:ASP:OD2	2.63	0.47
1:C8:98:ASN:HD22	1:C8:99:MET:N	2.12	0.47
1:B8:291:GLN:NE2	1:B8:295:ASP:OD2	2.47	0.47
1:D8:152:ALA:HB1	2:E8:8:ARG:HH22	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I8:14:VAL:HG23	1:KR:14:VAL:HG21	1.94	0.47
1:I8:367:PRO:HG3	1:IR:375:TRP:CZ3	2.47	0.47
1:L8:71:ARG:HD3	1:L8:271:ILE:HD12	1.96	0.47
1:L8:152:ALA:HB1	2:M8:8:ARG:HH22	1.80	0.47
2:P8:11:MET:HE3	1:CR:372:VAL:HG12	1.96	0.47
1:Q8:115:ARG:NH2	1:S8:299:ALA:O	2.47	0.47
2:c8:45:ILE:HG23	2:hE:31:SER:O	2.13	0.47
1:i8:46:PHE:CZ	1:DD:39:TRP:CZ3	3.03	0.47
1:i8:259:PHE:O	1:i8:260:GLN:CG	2.62	0.47
3:A9:201:TYR:OH	3:AA:176:MET:HE3	2.13	0.47
3:A9:212:MET:HE2	4:BC:244:LYS:CB	2.33	0.47
5:F9:105:ILE:O	5:F9:110:LYS:HB2	2.13	0.47
4:BA:188:ASP:HA	4:BC:150:ASP:O	2.13	0.47
5:EA:140:ASP:N	5:CA:139:LYS:HB3	2.25	0.47
5:FA:27:ARG:HH11	5:DC:26:GLU:CG	2.27	0.47
3:AB:176:MET:HE3	3:AF:201:TYR:OH	2.13	0.47
5:FC:31:PHE:CD2	5:FH:46:TYR:CD1	3.01	0.47
5:CC:248:GLN:HB3	5:NH:230:SER:CB	2.45	0.47
1:BD:98:ASN:ND2	1:KS:30:SER:N	2.62	0.47
1:DD:240:ILE:HG22	1:DD:344:ILE:HG23	1.95	0.47
1:DD:350:ILE:HG22	1:DD:384:ILE:HG13	1.97	0.47
1:KD:144:THR:H	1:IS:82:ILE:CG1	2.04	0.47
1:LD:178:TYR:CA	1:YG:35:PHE:CZ	2.98	0.47
1:AE:86:SER:HB2	1:CE:60:GLU:HB2	1.95	0.47
1:KE:177:ASP:OD2	1:QQ:33:TRP:HZ2	1.96	0.47
1:KE:208:LEU:HD12	1:KE:391:ILE:HD11	1.89	0.47
1:NE:134:ASN:HA	1:NE:371:GLU:HA	1.97	0.47
1:aE:80:ASP:OD2	1:CG:145:LEU:CG	2.63	0.47
1:aE:81:PHE:HD2	1:CG:139:ARG:HD3	1.64	0.47
1:aE:206:LEU:HD12	1:aE:206:LEU:O	2.14	0.47
1:aE:368:GLU:O	1:RG:99:MET:HE1	2.14	0.47
1:bE:168:GLU:OE2	1:cE:211:ASN:ND2	2.38	0.47
1:cE:291:GLN:NE2	1:cE:295:ASP:OD2	2.47	0.47
3:AF:58:LEU:HD11	3:AF:143:MET:HE1	1.96	0.47
1:AG:64:ILE:CD1	1:BG:88:GLU:CG	2.93	0.47
2:VG:22:LYS:HA	2:VG:22:LYS:HD2	1.73	0.47
1:YG:96:PRO:HD2	1:aG:166:LEU:HG	1.97	0.47
1:bG:71:ARG:HD3	1:bG:271:ILE:HD12	1.96	0.47
1:bG:134:ASN:HA	1:bG:371:GLU:HA	1.97	0.47
1:bG:152:ALA:HB1	2:cG:8:ARG:HH22	1.80	0.47
1:gG:321:VAL:HG21	1:gG:327:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hG:200:LYS:HA	1:hG:203:GLU:HG3	1.96	0.47
1:hG:207:ASN:HA	1:CL:274:ASP:OD1	2.15	0.47
2:lG:31:SER:HB3	2:nG:45:ILE:HG21	1.97	0.47
2:nG:31:SER:O	2:ML:45:ILE:HG23	2.13	0.47
3:AH:63:ARG:HD3	3:AH:145:ASN:HD21	1.78	0.47
1:BJ:240:ILE:HG13	1:BJ:270:VAL:HA	1.96	0.47
1:BJ:268:ASP:HA	2:FJ:44:GLN:HB2	1.96	0.47
1:CJ:244:ASP:N	1:CJ:273:PHE:O	2.47	0.47
2:MJ:8:ARG:NH1	1:JS:374:HIS:HE1	1.70	0.47
1:AK:183:LEU:HD12	1:AK:187:ASN:HB2	1.97	0.47
1:BK:71:ARG:HH22	1:BK:272:SER:H	1.62	0.47
1:CK:242:THR:HG21	1:CK:246:LEU:HD12	1.97	0.47
1:CK:250:LEU:HA	1:CK:254:LYS:HZ3	1.80	0.47
1:LK:39:TRP:CB	1:DP:120:LEU:HB2	2.45	0.47
1:LK:185:GLU:HA	1:LK:188:VAL:HG12	1.95	0.47
1:CL:361:LYS:CE	1:YR:370:ASP:OD1	2.63	0.47
1:AL:345:LEU:HD11	1:AL:350:ILE:HD11	1.96	0.47
1:BL:14:VAL:HG21	1:YR:14:VAL:CB	2.43	0.47
1:QL:63:LEU:HD13	1:RR:89:TYR:HE2	1.71	0.47
1:QL:206:LEU:HD12	1:QL:206:LEU:O	2.14	0.47
1:SL:259:PHE:O	1:SL:260:GLN:CG	2.62	0.47
2:VL:31:SER:HB3	2:XL:45:ILE:HG21	1.97	0.47
2:XL:11:MET:HE3	1:YL:372:VAL:HG12	1.96	0.47
1:YL:167:GLU:OE2	1:YL:352:TYR:OH	2.26	0.47
5:DM:30:PRO:CG	1:IS:140:PHE:HE2	2.26	0.47
3:AO:152:SER:CB	1:IS:144:THR:HA	2.40	0.47
1:BP:173:ALA:HB2	1:BP:279:VAL:HG11	1.96	0.47
1:DP:89:TYR:CZ	1:KP:63:LEU:HB2	2.49	0.47
1:CQ:80:ASP:OD2	1:gR:145:LEU:CG	2.63	0.47
1:AQ:259:PHE:HD1	1:BQ:259:PHE:CE2	2.32	0.47
1:LQ:134:ASN:HA	1:LQ:371:GLU:HA	1.97	0.47
2:NQ:31:SER:HB3	2:PQ:45:ILE:HG21	1.97	0.47
1:QQ:96:PRO:HD2	1:SQ:166:LEU:HG	1.97	0.47
1:SQ:291:GLN:NE2	1:SQ:295:ASP:OD2	2.47	0.47
2:VQ:31:SER:HB3	2:XQ:45:ILE:HG21	1.97	0.47
2:XQ:11:MET:HE3	1:QR:372:VAL:HG12	1.96	0.47
1:YQ:315:ALA:HA	1:AS:30:SER:O	2.14	0.47
1:cQ:200:LYS:HA	1:cQ:203:GLU:HG3	1.96	0.47
1:cQ:345:LEU:HD11	1:cQ:350:ILE:HD11	1.95	0.47
1:dQ:129:GLN:NE2	1:dQ:159:LYS:O	2.41	0.47
1:BR:259:PHE:O	1:BR:260:GLN:CG	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SR:259:PHE:O	1:SR:260:GLN:CG	2.62	0.47
1:gR:206:LEU:HD12	1:gR:206:LEU:O	2.14	0.47
1:CS:16:LYS:HB2	1:CS:19:LYS:HE2	1.96	0.47
1:C1:46:PHE:CD1	1:A6:85:TYR:HE2	2.32	0.47
1:C1:58:ILE:HD11	1:A6:87:GLU:HB2	1.95	0.47
1:C1:367:PRO:HG3	1:bQ:375:TRP:CZ3	2.47	0.47
1:A1:85:TYR:HE2	1:C6:46:PHE:CD1	2.32	0.47
2:F1:10:MET:HG2	1:iG:365:HIS:HD2	1.79	0.47
1:I1:145:LEU:CG	1:SE:80:ASP:OD2	2.63	0.47
1:I1:158:LYS:HE2	1:JG:91:ILE:O	2.15	0.47
1:I1:361:LYS:NZ	1:Y6:370:ASP:CG	2.73	0.47
1:I1:361:LYS:CE	1:Y6:370:ASP:OD1	2.63	0.47
1:J1:115:ARG:NH2	1:IG:300:TYR:CA	2.75	0.47
1:K1:291:GLN:NE2	1:K1:295:ASP:OD2	2.47	0.47
1:Q1:47:GLU:H	1:KG:20:SER:HB2	1.80	0.47
1:Q1:115:ARG:NH2	1:S1:299:ALA:O	2.47	0.47
1:Q1:206:LEU:HD12	1:Q1:206:LEU:O	2.14	0.47
1:R1:120:LEU:HB2	1:CJ:39:TRP:HB2	1.97	0.47
1:R1:207:ASN:HA	1:Q6:274:ASP:OD1	2.15	0.47
1:S1:20:SER:HB2	1:Q8:47:GLU:H	1.80	0.47
1:S1:259:PHE:O	1:S1:260:GLN:CG	2.62	0.47
1:S1:291:GLN:NE2	1:S1:295:ASP:OD2	2.47	0.47
1:T1:27:HIS:CD2	1:CJ:312:PRO:HG3	2.50	0.47
1:T1:31:LYS:N	1:CJ:314:GLY:C	2.70	0.47
1:T1:133:LEU:O	2:HJ:11:MET:SD	2.73	0.47
1:X1:38:LYS:HE2	1:I8:221:ALA:C	2.40	0.47
1:Y1:207:ASN:HA	1:I6:274:ASP:OD1	2.15	0.47
1:Y1:259:PHE:HE1	1:I6:259:PHE:HE1	1.48	0.47
1:Z1:20:SER:HB2	1:IR:47:GLU:H	1.80	0.47
1:f1:145:LEU:CG	1:C3:80:ASP:OD2	2.63	0.47
1:f1:259:PHE:CE1	1:AQ:259:PHE:CD1	2.98	0.47
1:f1:375:TRP:CZ3	1:QG:367:PRO:HG3	2.47	0.47
1:g1:207:ASN:HA	1:CQ:274:ASP:OD1	2.15	0.47
1:h1:20:SER:HB2	1:QG:47:GLU:H	1.80	0.47
1:i1:71:ARG:HD3	1:i1:271:ILE:HD12	1.96	0.47
3:A2:154:ILE:CG2	3:A2:154:ILE:O	2.63	0.47
4:B2:192:THR:CB	4:B9:147:THR:HG22	2.43	0.47
5:D2:132:ASN:HA	5:D2:135:LYS:HZ2	1.79	0.47
5:F2:31:PHE:CD2	5:F9:46:TYR:CD1	3.01	0.47
5:C2:244:ALA:HB2	5:O9:351:ASN:O	2.15	0.47
1:C3:47:GLU:H	1:SG:20:SER:HB2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C3:62:LEU:CD1	2:n7:53:PHE:O	2.62	0.47
1:C3:158:LYS:HE2	1:h7:91:ILE:O	2.15	0.47
1:C3:370:ASP:OD1	1:QG:361:LYS:CE	2.63	0.47
1:A3:91:ILE:O	1:g7:158:LYS:HE2	2.15	0.47
1:I3:47:GLU:H	1:SL:20:SER:HB2	1.80	0.47
1:I3:115:ARG:NH2	1:K3:299:ALA:O	2.47	0.47
1:I3:167:GLU:OE2	1:I3:352:TYR:OH	2.26	0.47
1:I3:361:LYS:CE	1:I4:370:ASP:OD1	2.63	0.47
1:J3:99:MET:HE1	1:IG:368:GLU:O	2.14	0.47
1:J3:259:PHE:CD1	1:Q8:259:PHE:CE1	2.98	0.47
1:K3:259:PHE:O	1:K3:260:GLN:CG	2.62	0.47
1:Q3:46:PHE:CD1	1:J8:85:TYR:HE2	2.32	0.47
1:Q3:58:ILE:HD11	1:J8:87:GLU:HB2	1.95	0.47
1:Q3:321:VAL:HG21	1:Q3:327:PHE:CE2	2.49	0.47
1:S3:365:HIS:HD2	2:fE:10:MET:HG2	1.79	0.47
1:T3:71:ARG:HD3	1:T3:271:ILE:HD12	1.96	0.47
1:Y3:152:ALA:HB1	2:Z3:8:ARG:HH22	1.80	0.47
1:C4:14:VAL:CB	1:BG:14:VAL:HG21	2.43	0.47
1:B4:14:VAL:HG23	1:aE:14:VAL:HG21	1.96	0.47
1:B4:259:PHE:O	1:B4:260:GLN:CG	2.62	0.47
1:B4:291:GLN:NE2	1:B4:295:ASP:OD2	2.47	0.47
1:I4:115:ARG:NH2	1:K4:299:ALA:O	2.47	0.47
1:I4:360:LEU:HD22	2:H8:22:LYS:HG2	1.91	0.47
1:J4:91:ILE:O	1:C8:158:LYS:HE2	2.15	0.47
1:J4:259:PHE:HD1	1:K4:259:PHE:CE2	2.32	0.47
1:K4:20:SER:HB2	1:QL:47:GLU:H	1.80	0.47
1:K4:129:GLN:NE2	1:K4:159:LYS:O	2.41	0.47
1:K4:259:PHE:O	1:K4:260:GLN:CG	2.62	0.47
1:L4:134:ASN:HA	1:L4:371:GLU:HA	1.97	0.47
2:N4:31:SER:HB3	2:P4:45:ILE:HG21	1.97	0.47
1:Q4:47:GLU:H	1:KL:20:SER:HB2	1.80	0.47
1:Q4:96:PRO:HD2	1:S4:166:LEU:HG	1.97	0.47
1:Q4:274:ASP:OD1	1:h8:207:ASN:HA	2.15	0.47
1:Q4:321:VAL:HG21	1:Q4:327:PHE:CE2	2.49	0.47
1:Q4:361:LYS:CE	1:IQ:370:ASP:OD1	2.63	0.47
1:Q4:367:PRO:HG3	1:IL:375:TRP:CZ3	2.47	0.47
1:Q4:368:GLU:O	1:ZR:99:MET:HE1	2.14	0.47
1:Q4:372:VAL:HG12	2:fR:11:MET:HE3	1.96	0.47
1:R4:174:MET:CG	1:BS:33:TRP:CG	2.97	0.47
1:S4:20:SER:HB2	1:IQ:47:GLU:H	1.80	0.47
1:T4:71:ARG:HD3	1:T4:271:ILE:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:86:SER:HB2	1:Z4:60:GLU:HB2	1.95	0.47
1:X4:167:GLU:OE2	1:X4:352:TYR:OH	2.26	0.47
1:X4:370:ASP:CG	1:CR:361:LYS:NZ	2.73	0.47
1:Y4:55:PHE:O	1:Y4:57:LYS:NZ	2.46	0.47
1:Y4:91:ILE:O	1:Y8:158:LYS:HE2	2.15	0.47
1:Z4:259:PHE:O	1:Z4:260:GLN:CG	2.62	0.47
1:a4:134:ASN:HA	1:a4:371:GLU:HA	1.97	0.47
2:c4:31:SER:HB3	2:e4:45:ILE:HG21	1.97	0.47
1:f4:158:LYS:HE2	1:ZG:91:ILE:O	2.15	0.47
1:f4:302:ASP:CG	1:gG:29:TYR:HH	2.06	0.47
1:f4:321:VAL:HG21	1:f4:327:PHE:CE2	2.49	0.47
1:g4:64:ILE:CD1	1:h4:88:GLU:CG	2.93	0.47
1:g4:361:LYS:CE	1:CD:370:ASP:OD2	2.61	0.47
1:g4:382:LYS:CD	1:CD:32:SER:O	2.63	0.47
5:D5:45:TYR:CE2	5:EN:38:TYR:HB2	2.50	0.47
5:F5:27:ARG:HH11	5:DI:26:GLU:CG	2.27	0.47
5:F5:31:PHE:CD2	5:FI:46:TYR:CD1	3.01	0.47
1:C6:145:LEU:CG	1:gG:80:ASP:OD2	2.62	0.47
1:C6:321:VAL:HG21	1:C6:327:PHE:CE2	2.49	0.47
1:D6:71:ARG:HD3	1:D6:271:ILE:HD12	1.96	0.47
1:I6:80:ASP:OD2	1:CL:145:LEU:CG	2.63	0.47
1:K6:259:PHE:O	1:K6:260:GLN:CG	2.62	0.47
2:M6:21:ASN:O	2:M6:23:ARG:NH1	2.48	0.47
2:N6:31:SER:HB3	2:P6:45:ILE:HG21	1.97	0.47
2:P6:2:TYR:HB2	2:f7:55:GLY:HA3	1.94	0.47
1:Q6:35:PHE:CZ	1:LJ:178:TYR:CA	2.98	0.47
1:Q6:96:PRO:HD2	1:S6:166:LEU:HG	1.97	0.47
1:Q6:143:GLN:O	1:LJ:82:ILE:HG23	2.15	0.47
1:Q6:367:PRO:CD	1:LJ:375:TRP:CH2	2.98	0.47
1:Y6:158:LYS:HE2	1:LE:91:ILE:O	2.15	0.47
1:Y6:361:LYS:CE	1:SE:370:ASP:OD1	2.63	0.47
1:Z6:89:TYR:CE1	1:KE:61:THR:CG2	2.94	0.47
1:Z6:207:ASN:HA	1:KE:274:ASP:OD1	2.15	0.47
1:a6:14:VAL:HG21	1:SE:14:VAL:HG23	1.94	0.47
1:a6:291:GLN:NE2	1:a6:295:ASP:OD2	2.47	0.47
1:b6:351:LYS:NZ	1:LQ:60:GLU:OE2	2.43	0.47
1:g6:61:THR:CG2	1:BE:89:TYR:CE1	2.94	0.47
1:g6:143:GLN:O	1:LP:82:ILE:HG23	2.15	0.47
1:g6:206:LEU:HD12	1:g6:206:LEU:O	2.14	0.47
1:g6:274:ASP:OD1	1:BE:207:ASN:HA	2.15	0.47
1:h6:91:ILE:O	1:AE:158:LYS:HE2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h6:207:ASN:HA	1:AE:274:ASP:OD1	2.15	0.47
1:i6:57:LYS:CA	1:DJ:143:GLN:HE21	2.28	0.47
1:j6:134:ASN:HA	1:j6:371:GLU:HA	1.97	0.47
1:C7:53:TYR:CG	1:LK:223:GLY:HA2	2.44	0.47
1:C7:98:ASN:HD22	1:C7:99:MET:N	2.12	0.47
1:C7:375:TRP:CZ3	1:DP:367:PRO:CG	2.92	0.47
1:D7:152:ALA:HB1	2:E7:8:ARG:HH22	1.80	0.47
1:I7:145:LEU:CG	1:gR:80:ASP:OD2	2.63	0.47
1:I7:206:LEU:HD12	1:I7:206:LEU:O	2.14	0.47
1:I7:321:VAL:HG21	1:I7:327:PHE:CE2	2.49	0.47
1:K7:20:SER:HB2	1:CQ:47:GLU:H	1.80	0.47
1:K7:259:PHE:O	1:K7:260:GLN:CG	2.62	0.47
1:L7:71:ARG:HD3	1:L7:271:ILE:HD12	1.96	0.47
1:Q7:96:PRO:HD2	1:S7:166:LEU:HG	1.97	0.47
1:Q7:115:ARG:NH2	1:S7:299:ALA:O	2.47	0.47
2:V7:10:MET:HG2	1:ME:365:HIS:HD2	1.79	0.47
1:Y7:98:ASN:HD22	1:Y7:99:MET:N	2.12	0.47
1:Y7:139:ARG:HD2	1:QQ:81:PHE:HE2	1.63	0.47
1:Y7:158:LYS:HE2	1:JR:91:ILE:O	2.15	0.47
1:Y7:221:ALA:C	1:KE:38:LYS:HE2	2.40	0.47
1:Y7:370:ASP:OD1	1:QQ:361:LYS:CE	2.63	0.47
1:Z7:91:ILE:O	1:IR:158:LYS:HE2	2.15	0.47
1:g7:38:LYS:HE2	1:AE:221:ALA:C	2.40	0.47
1:g7:80:ASP:OD2	1:C8:145:LEU:CG	2.63	0.47
1:g7:167:GLU:OE2	1:g7:352:TYR:OH	2.26	0.47
1:g7:208:LEU:HD12	1:g7:391:ILE:HD11	1.89	0.47
1:g7:370:ASP:OD1	1:AE:361:LYS:CE	2.63	0.47
2:k7:38:GLU:N	2:k7:38:GLU:CD	2.72	0.47
1:C8:361:LYS:NZ	1:AE:370:ASP:CG	2.73	0.47
1:C8:361:LYS:CE	1:AE:370:ASP:OD1	2.63	0.47
1:J8:99:MET:HE1	1:CR:368:GLU:O	2.15	0.47
1:Q8:361:LYS:CE	1:IG:370:ASP:OD1	2.63	0.47
1:R8:345:LEU:HD11	1:R8:350:ILE:HD11	1.95	0.47
1:S8:259:PHE:O	1:S8:260:GLN:CG	2.62	0.47
2:U8:21:ASN:O	2:U8:23:ARG:NH1	2.48	0.47
1:Y8:80:ASP:OD2	1:bQ:145:LEU:CG	2.63	0.47
1:Y8:321:VAL:HG21	1:Y8:327:PHE:CE2	2.49	0.47
1:Y8:361:LYS:NZ	1:bQ:370:ASP:CG	2.73	0.47
1:Z8:64:ILE:CD1	1:a8:88:GLU:CG	2.93	0.47
1:a8:20:SER:HB2	1:bQ:47:GLU:H	1.80	0.47
1:g8:140:PHE:CZ	1:KS:123:ASN:ND2	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h8:99:MET:HE1	1:IQ:368:GLU:O	2.14	0.47
1:i8:57:LYS:CA	1:DD:143:GLN:HE21	2.28	0.47
1:i8:291:GLN:NE2	1:i8:295:ASP:OD2	2.47	0.47
2:n8:2:TYR:HB2	2:ZE:55:GLY:HA3	1.94	0.47
4:B9:251:TRP:HZ3	5:EA:39:ASN:HD22	1.61	0.47
5:E9:18:LEU:HD12	5:DA:60:ALA:CB	2.44	0.47
5:E9:38:TYR:CB	5:DA:45:TYR:HE2	2.28	0.47
5:E9:140:ASP:O	5:C9:140:ASP:HA	2.15	0.47
3:AA:80:ILE:HG22	2:MK:7:MET:HE1	1.95	0.47
3:AA:183:ILE:HD11	3:AA:222:LEU:HD23	1.97	0.47
4:BA:251:TRP:HZ3	5:EC:39:ASN:HD22	1.61	0.47
5:EA:18:LEU:HD12	5:DC:60:ALA:CB	2.44	0.47
5:EA:140:ASP:O	5:CA:140:ASP:HA	2.15	0.47
5:FA:87:GLN:HG3	5:FA:91:LEU:HD23	1.96	0.47
3:AB:150:TYR:CA	1:AD:148:ALA:HB3	2.40	0.47
3:AB:156:ILE:HD12	3:AB:159:HIS:HB3	1.97	0.47
5:DB:51:ARG:CB	3:AM:6:ARG:CZ	2.93	0.47
5:NB:230:SER:C	5:CF:266:THR:CA	2.88	0.47
5:OB:351:ASN:O	5:CF:244:ALA:HB2	2.15	0.47
5:EC:18:LEU:HD12	5:DH:60:ALA:CB	2.44	0.47
5:FC:31:PHE:CZ	5:FH:47:ASP:N	2.68	0.47
5:OC:388:LYS:HG3	5:OC:388:LYS:O	2.13	0.47
1:AD:100:ASP:CG	1:YG:27:HIS:N	2.70	0.47
1:CD:14:VAL:CG2	1:YG:45:MET:HG2	2.45	0.47
1:DD:82:ILE:HA	1:KS:139:ARG:O	2.15	0.47
1:DD:170:GLU:HB2	1:KS:32:SER:HB3	1.97	0.47
2:GD:29:ASN:HB3	2:GD:32:ILE:HG23	1.97	0.47
1:KD:78:GLU:OE2	3:AF:82:GLY:C	2.57	0.47
1:KD:374:HIS:NE2	2:LS:8:ARG:CZ	2.76	0.47
1:LD:314:GLY:CA	1:YG:31:LYS:HE2	2.45	0.47
1:LD:369:PHE:HB2	1:BK:108:MET:HE1	1.95	0.47
1:DE:315:ALA:HA	1:BP:30:SER:O	2.14	0.47
2:GE:11:MET:HG2	1:BP:133:LEU:HG	1.97	0.47
1:CE:98:ASN:HB3	1:CP:28:ASP:C	2.27	0.47
1:CE:99:MET:O	1:CP:25:PHE:HA	2.15	0.47
1:CE:291:GLN:NE2	1:CE:295:ASP:OD2	2.47	0.47
1:FE:71:ARG:HD3	1:FE:271:ILE:HD12	1.96	0.47
1:FE:368:GLU:OE2	1:CP:128:LYS:NZ	2.35	0.47
2:HE:8:ARG:NH2	1:CP:131:PHE:CE2	2.82	0.47
1:KE:206:LEU:HD12	1:KE:206:LEU:O	2.14	0.47
1:ME:13:LEU:HD11	1:QQ:45:MET:CE	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RE:55:GLY:HA3	2:PG:2:TYR:HB2	1.94	0.47
1:SE:208:LEU:HD12	1:SE:391:ILE:HD11	1.89	0.47
1:TE:91:ILE:O	1:IQ:158:LYS:HE2	2.15	0.47
1:TE:259:PHE:HD1	1:UE:259:PHE:CE2	2.32	0.47
2:WE:38:GLU:N	2:WE:38:GLU:CD	2.72	0.47
1:aE:98:ASN:HD22	1:aE:99:MET:N	2.12	0.47
1:aE:321:VAL:HG21	1:aE:327:PHE:CE2	2.49	0.47
1:aE:372:VAL:HG12	2:XG:11:MET:HE3	1.96	0.47
1:cE:20:SER:HB2	1:CG:47:GLU:H	1.80	0.47
1:cE:259:PHE:O	1:cE:260:GLN:CG	2.62	0.47
3:AF:63:ARG:HE	3:AF:285:ARG:HH22	1.62	0.47
4:BF:150:ASP:O	4:BM:188:ASP:HA	2.13	0.47
5:EF:39:ASN:HD22	4:BM:251:TRP:HZ3	1.61	0.47
5:EF:140:ASP:HB3	5:CF:139:LYS:HZ3	1.75	0.47
5:NF:178:ILE:HD11	5:NF:185:MET:HE3	1.95	0.47
1:CG:98:ASN:HD22	1:CG:99:MET:N	2.12	0.47
1:CG:158:LYS:HE2	1:ZL:91:ILE:O	2.15	0.47
1:CG:208:LEU:HD12	1:CG:391:ILE:HD11	1.89	0.47
1:CG:368:GLU:O	1:AR:99:MET:HE1	2.15	0.47
2:FG:1:MET:H3	1:SR:150:ASN:HD21	1.61	0.47
2:HG:2:TYR:HB2	2:XQ:55:GLY:HA3	1.94	0.47
1:JG:259:PHE:HD1	1:KG:259:PHE:CE2	2.32	0.47
1:KG:259:PHE:O	1:KG:260:GLN:CG	2.62	0.47
1:LG:134:ASN:HA	1:LG:371:GLU:HA	1.97	0.47
2:NG:31:SER:HB3	2:PG:45:ILE:HG21	1.97	0.47
1:QG:96:PRO:HD2	1:SG:166:LEU:HG	1.97	0.47
1:QG:372:VAL:HG12	2:HQ:11:MET:HE3	1.96	0.47
1:SG:259:PHE:O	1:SG:260:GLN:CG	2.62	0.47
1:TG:71:ARG:HD3	1:TG:271:ILE:HD12	1.96	0.47
1:YG:81:PHE:CE2	1:DK:139:ARG:CD	2.66	0.47
1:YG:86:SER:HB2	1:aG:60:GLU:HB2	1.95	0.47
1:YG:98:ASN:HD22	1:YG:99:MET:N	2.12	0.47
1:ZG:55:PHE:O	1:ZG:57:LYS:NZ	2.46	0.47
1:ZG:99:MET:HE1	1:gG:368:GLU:O	2.15	0.47
1:ZG:200:LYS:HA	1:ZG:203:GLU:HG3	1.96	0.47
1:aG:46:PHE:CZ	1:DK:39:TRP:CZ3	3.03	0.47
1:aG:57:LYS:CA	1:DK:143:GLN:HE21	2.28	0.47
1:aG:259:PHE:O	1:aG:260:GLN:CG	2.62	0.47
2:dG:31:SER:HB3	2:fG:45:ILE:HG21	1.97	0.47
3:AH:108:THR:O	3:AH:132:TYR:OH	2.32	0.47
3:AH:150:TYR:CE2	1:AP:145:LEU:HD12	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EH:18:LEU:HD12	5:DN:60:ALA:CB	2.44	0.47
5:EH:140:ASP:O	5:CH:140:ASP:HA	2.15	0.47
3:AI:58:LEU:HD11	3:AI:143:MET:HE1	1.96	0.47
3:AI:154:ILE:O	3:AI:154:ILE:CG2	2.63	0.47
5:EI:38:TYR:CB	5:DO:45:TYR:HE2	2.28	0.47
5:EI:140:ASP:O	5:CI:140:ASP:HA	2.15	0.47
1:DJ:82:ILE:HA	1:LP:139:ARG:O	2.15	0.47
1:DJ:120:LEU:HB2	1:LP:39:TRP:CB	2.45	0.47
1:KJ:16:LYS:H	1:LP:45:MET:CE	2.24	0.47
1:KJ:25:PHE:HB3	1:KP:101:LEU:H	1.80	0.47
1:KJ:101:LEU:H	1:JS:25:PHE:HB3	1.80	0.47
1:LJ:29:TYR:OH	1:CS:302:ASP:HB3	1.99	0.47
1:LJ:45:MET:CE	1:JS:13:LEU:O	2.55	0.47
2:MJ:8:ARG:HH11	2:MJ:10:MET:H	1.61	0.47
1:AK:256:ALA:HA	1:KK:260:GLN:HB2	1.96	0.47
1:BK:172:ARG:NH1	1:BK:275:ASP:O	2.48	0.47
1:CK:70:ASN:HD22	1:CK:168:GLU:HB3	1.80	0.47
1:CK:133:LEU:HB2	2:kR:11:MET:HG2	1.95	0.47
1:CK:220:ARG:O	1:jR:38:LYS:CG	2.61	0.47
1:DK:350:ILE:HG22	1:DK:384:ILE:HG13	1.97	0.47
1:LK:32:SER:HB3	1:DP:170:GLU:HB2	1.97	0.47
1:LK:35:PHE:CZ	1:DP:178:TYR:CB	2.90	0.47
1:LK:139:ARG:O	1:DP:82:ILE:HA	2.15	0.47
1:LK:149:THR:HG23	2:FP:16:GLU:HB3	1.94	0.47
1:LK:289:GLN:N	1:LK:326:GLU:OE2	2.42	0.47
2:MK:15:TYR:CD1	1:KP:148:ALA:CB	2.94	0.47
1:CL:206:LEU:HD12	1:CL:206:LEU:O	2.14	0.47
1:CL:321:VAL:HG21	1:CL:327:PHE:CE2	2.49	0.47
1:BL:20:SER:HB2	1:YR:47:GLU:H	1.80	0.47
1:BL:259:PHE:O	1:BL:260:GLN:CG	2.62	0.47
1:DL:71:ARG:HD3	1:DL:271:ILE:HD12	1.96	0.47
1:IL:145:LEU:CG	1:IQ:80:ASP:OD2	2.63	0.47
1:JL:207:ASN:HA	1:YR:274:ASP:OD1	2.15	0.47
1:LL:71:ARG:HD3	1:LL:271:ILE:HD12	1.96	0.47
2:PL:53:PHE:O	1:YR:62:LEU:CD1	2.62	0.47
1:QL:115:ARG:NH2	1:SL:299:ALA:O	2.47	0.47
1:SL:291:GLN:NE2	1:SL:295:ASP:OD2	2.47	0.47
2:XL:22:LYS:HG2	1:QR:360:LEU:HD22	1.91	0.47
1:YL:86:SER:HB2	1:aL:60:GLU:HB2	1.95	0.47
1:YL:370:ASP:OD1	1:QR:361:LYS:CE	2.63	0.47
1:aL:150:ASN:ND2	2:VQ:1:MET:N	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:hL:45:ILE:HG13	2:hL:46:HIS:H	1.66	0.47
5:DM:45:TYR:HE2	5:EO:38:TYR:CB	2.28	0.47
5:EM:66:TYR:HB2	5:EO:10:TYR:HH	1.69	0.47
3:AN:108:THR:O	3:AN:132:TYR:OH	2.32	0.47
5:FO:105:ILE:O	5:FO:110:LYS:HB2	2.13	0.47
1:AP:244:ASP:N	1:AP:273:PHE:O	2.45	0.47
1:DP:25:PHE:O	1:hR:101:LEU:N	2.47	0.47
1:DP:350:ILE:HG22	1:DP:384:ILE:HG13	1.97	0.47
1:YQ:375:TRP:CZ3	1:AS:367:PRO:HG3	2.50	0.47
1:bQ:279:VAL:HG12	1:bQ:318:THR:HA	1.95	0.47
1:bQ:321:VAL:HG21	1:bQ:327:PHE:CE2	2.49	0.47
1:dQ:291:GLN:NE2	1:dQ:295:ASP:OD2	2.47	0.47
2:gQ:31:SER:HB3	2:iQ:45:ILE:HG21	1.97	0.47
1:CR:86:SER:HB2	1:BR:60:GLU:HB2	1.95	0.47
1:AR:259:PHE:HD1	1:BR:259:PHE:CE2	2.32	0.47
2:MR:21:ASN:O	2:MR:23:ARG:NH1	2.48	0.47
1:ZR:259:PHE:HD1	1:aR:259:PHE:CE2	2.32	0.47
2:kR:31:SER:HB3	2:mR:45:ILE:HG21	1.97	0.47
1:AS:351:LYS:O	1:AS:382:LYS:HA	2.15	0.47
1:BS:240:ILE:HG13	1:BS:270:VAL:HA	1.96	0.47
1:BS:254:LYS:HE2	1:BS:254:LYS:HB2	1.75	0.47
1:JS:24:ASP:N	1:JS:24:ASP:OD1	2.46	0.47
1:JS:213:ALA:HA	1:JS:230:THR:HA	1.97	0.47
1:KS:349:SER:O	1:KS:385:SER:N	2.38	0.47
1:C1:145:LEU:CG	1:bQ:80:ASP:OD2	2.62	0.47
1:C1:321:VAL:HG21	1:C1:327:PHE:CE2	2.49	0.47
1:A1:87:GLU:HB2	1:C6:58:ILE:HD11	1.95	0.47
1:B1:129:GLN:NE2	1:B1:159:LYS:O	2.41	0.47
1:B1:259:PHE:O	1:B1:260:GLN:CG	2.62	0.47
1:J1:259:PHE:HD1	1:K1:259:PHE:CE2	2.32	0.47
2:N1:31:SER:HB3	2:P1:45:ILE:HG21	1.97	0.47
1:Q1:96:PRO:HD2	1:S1:166:LEU:HG	1.97	0.47
1:Q1:145:LEU:CG	1:IG:80:ASP:OD2	2.63	0.47
1:Q1:370:ASP:CG	1:IG:361:LYS:NZ	2.73	0.47
1:T1:351:LYS:NZ	1:L3:60:GLU:OE2	2.43	0.47
2:U1:11:MET:CB	1:CJ:372:VAL:HG11	2.33	0.47
1:Y1:259:PHE:HD1	1:Z1:259:PHE:CE2	2.32	0.47
1:Z1:14:VAL:HG23	1:IR:14:VAL:HG21	1.96	0.47
1:Z1:150:ASN:ND2	2:d7:1:MET:N	2.61	0.47
1:a1:152:ALA:HB1	2:b1:8:ARG:HH22	1.80	0.47
1:f1:372:VAL:HG12	2:n7:11:MET:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h1:365:HIS:HD2	2:F4:10:MET:HG2	1.79	0.47
5:D2:45:TYR:HE2	5:EB:38:TYR:CB	2.28	0.47
5:N2:228:ARG:NH2	5:CB:264:GLY:O	2.48	0.47
5:O2:355:GLN:OE1	5:CB:275:ASN:CG	2.55	0.47
1:C3:206:LEU:HD12	1:C3:206:LEU:O	2.14	0.47
2:H3:22:LYS:HG2	1:g7:360:LEU:HD22	1.91	0.47
1:I3:158:LYS:HE2	1:R8:91:ILE:O	2.15	0.47
1:I3:259:PHE:CE1	1:R8:259:PHE:CD1	2.98	0.47
1:J3:345:LEU:HD11	1:J3:350:ILE:HD11	1.95	0.47
2:M3:21:ASN:O	2:M3:23:ARG:NH1	2.48	0.47
1:Q3:14:VAL:HG23	1:Z4:14:VAL:HG23	1.97	0.47
1:b3:71:ARG:HD3	1:b3:271:ILE:HD12	1.96	0.47
1:C4:47:GLU:H	1:BG:20:SER:HB2	1.80	0.47
1:A4:207:ASN:HA	1:QG:274:ASP:OD1	2.15	0.47
1:I4:361:LYS:NZ	1:QL:370:ASP:CG	2.73	0.47
1:I4:361:LYS:CE	1:QL:370:ASP:OD1	2.63	0.47
1:R4:120:LEU:HB2	1:BS:39:TRP:HB2	1.97	0.47
1:R4:382:LYS:HG3	1:BS:33:TRP:HA	1.97	0.47
1:R4:382:LYS:CD	1:BS:32:SER:O	2.63	0.47
1:S4:259:PHE:O	1:S4:260:GLN:CG	2.62	0.47
1:T4:136:ASN:HA	1:BS:81:PHE:CE2	2.50	0.47
1:Y4:64:ILE:CD1	1:Z4:88:GLU:CG	2.93	0.47
1:f4:361:LYS:NZ	1:gG:370:ASP:CG	2.73	0.47
1:g4:382:LYS:HG3	1:CD:33:TRP:HA	1.97	0.47
1:i4:133:LEU:O	2:HD:11:MET:SD	2.73	0.47
3:A5:176:MET:HE3	3:AN:201:TYR:OH	2.13	0.47
1:C6:367:PRO:HG3	1:gG:375:TRP:CZ3	2.47	0.47
1:B6:291:GLN:NE2	1:B6:295:ASP:OD2	2.47	0.47
1:I6:96:PRO:HD2	1:K6:166:LEU:HG	1.97	0.47
1:Q6:31:LYS:HE2	1:LJ:314:GLY:CA	2.45	0.47
1:Y6:274:ASP:OD1	1:LE:207:ASN:HA	2.15	0.47
1:g6:96:PRO:HD2	1:i6:166:LEU:HG	1.97	0.47
1:h6:64:ILE:CD1	1:i6:88:GLU:CG	2.93	0.47
1:A7:207:ASN:HA	1:gR:274:ASP:OD1	2.15	0.47
1:B7:57:LYS:CA	1:DP:143:GLN:HE21	2.28	0.47
1:I7:14:VAL:HG23	1:iR:14:VAL:HG23	1.97	0.47
1:I7:361:LYS:NZ	1:CQ:370:ASP:CG	2.73	0.47
1:Q7:370:ASP:CG	1:YL:361:LYS:NZ	2.73	0.47
1:S7:20:SER:HB2	1:QR:47:GLU:H	1.80	0.47
2:U7:45:ILE:HG13	2:U7:46:HIS:H	1.66	0.47
1:Y7:370:ASP:CG	1:QQ:361:LYS:NZ	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g7:14:VAL:HG23	1:CE:14:VAL:HG21	1.94	0.47
1:h7:259:PHE:HD1	1:i7:259:PHE:CE2	2.32	0.47
2:F8:31:SER:HB3	2:H8:45:ILE:HG21	1.97	0.47
1:I8:172:ARG:HD2	1:I8:276:LEU:HD23	1.97	0.47
1:K8:362:PRO:HA	1:K8:363:PRO:HD3	1.79	0.47
1:Y8:98:ASN:HD22	1:Y8:99:MET:N	2.12	0.47
1:i8:45:MET:HE2	1:DD:39:TRP:HZ3	1.78	0.47
2:l8:10:MET:HG2	1:KL:365:HIS:HD2	1.79	0.47
3:AA:194:ASN:HD22	4:BH:3:ARG:CB	2.12	0.47
3:AB:51:VAL:HG21	3:AB:299:ILE:HD11	1.95	0.47
3:AB:300:LYS:HZ1	3:AF:308:THR:HG21	1.80	0.47
4:BC:119:GLU:HB2	4:BC:218:GLN:H	1.78	0.47
1:AD:82:ILE:HG21	1:KK:143:GLN:O	2.14	0.47
1:BD:108:MET:HE2	1:KS:369:PHE:CB	2.44	0.47
1:BD:108:MET:HE1	1:KS:369:PHE:HB2	1.95	0.47
1:CD:70:ASN:HD22	1:CD:168:GLU:HB3	1.80	0.47
1:DD:173:ALA:C	1:KS:33:TRP:CZ2	2.93	0.47
1:DD:375:TRP:CE3	1:KS:368:GLU:N	2.83	0.47
1:KD:101:LEU:H	1:KK:25:PHE:HB3	1.80	0.47
1:KD:213:ALA:HA	1:KD:230:THR:HA	1.97	0.47
1:LD:33:TRP:CZ2	1:DK:173:ALA:C	2.93	0.47
1:BE:64:ILE:CD1	1:CE:88:GLU:CG	2.93	0.47
1:CE:105:GLU:O	1:LP:109:LEU:CD2	2.36	0.47
1:FE:133:LEU:O	2:HP:11:MET:SD	2.73	0.47
1:KE:96:PRO:HD2	1:ME:166:LEU:HG	1.97	0.47
1:ME:20:SER:HB2	1:QQ:47:GLU:H	1.80	0.47
1:SE:158:LYS:HE2	1:JQ:91:ILE:O	2.15	0.47
2:ZE:11:MET:HE3	1:IL:372:VAL:HG12	1.96	0.47
2:ZE:53:PHE:O	1:IQ:62:LEU:CD1	2.62	0.47
1:cE:150:ASN:ND2	2:dL:1:MET:N	2.61	0.47
1:dE:152:ALA:HB1	2:eE:8:ARG:HH22	1.80	0.47
2:eE:21:ASN:O	2:eE:23:ARG:NH1	2.48	0.47
5:OF:351:ASN:O	5:CM:244:ALA:HB2	2.15	0.47
1:CG:206:LEU:HD12	1:CG:206:LEU:O	2.14	0.47
1:AG:91:ILE:O	1:YL:158:LYS:HE2	2.15	0.47
1:DG:71:ARG:HD3	1:DG:271:ILE:HD12	1.96	0.47
1:DG:134:ASN:HA	1:DG:371:GLU:HA	1.97	0.47
1:IG:115:ARG:NH2	1:KG:299:ALA:O	2.47	0.47
1:QG:321:VAL:HG21	1:QG:327:PHE:CE2	2.49	0.47
1:QG:368:GLU:O	1:AQ:99:MET:HE1	2.14	0.47
1:YG:167:GLU:OE2	1:YG:352:TYR:OH	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZG:64:ILE:CD1	1:aG:88:GLU:CG	2.93	0.47
1:ZG:345:LEU:HD11	1:ZG:350:ILE:HD11	1.95	0.47
1:aG:14:VAL:HA	1:DK:45:MET:CB	2.33	0.47
1:iG:291:GLN:NE2	1:iG:295:ASP:OD2	2.47	0.47
5:CH:264:GLY:O	5:NN:228:ARG:NH2	2.48	0.47
5:NH:388:LYS:O	5:NH:388:LYS:HG3	2.13	0.47
5:CI:264:GLY:O	5:NO:228:ARG:NH2	2.48	0.47
5:CI:266:THR:CA	5:NO:230:SER:C	2.88	0.47
1:AJ:170:GLU:HG2	1:JS:33:TRP:CZ3	2.49	0.47
1:BJ:173:ALA:HB2	1:BJ:279:VAL:HG11	1.96	0.47
1:DJ:170:GLU:HB2	1:LP:32:SER:HB3	1.97	0.47
2:EJ:45:ILE:HD11	2:HJ:31:SER:HB3	1.95	0.47
1:LJ:33:TRP:CZ2	1:CS:173:ALA:C	2.93	0.47
1:LJ:35:PHE:CE1	1:CS:174:MET:O	2.65	0.47
1:AK:170:GLU:HG2	1:KP:33:TRP:CZ3	2.49	0.47
1:BK:218:VAL:HG21	1:BK:229:TYR:HB3	1.97	0.47
1:CK:32:SER:O	1:hR:382:LYS:CD	2.63	0.47
1:LK:47:GLU:OE1	1:KP:21:ALA:C	2.44	0.47
2:MK:11:MET:HE2	1:KP:372:VAL:HB	1.00	0.47
1:CL:221:ALA:C	1:YR:38:LYS:HE2	2.40	0.47
1:CL:361:LYS:NZ	1:YR:370:ASP:CG	2.73	0.47
1:AL:168:GLU:OE2	1:BL:211:ASN:ND2	2.38	0.47
1:IL:86:SER:HB2	1:KL:60:GLU:HB2	1.95	0.47
1:IL:259:PHE:CE1	1:ZR:259:PHE:CD1	2.98	0.47
1:QL:96:PRO:HD2	1:SL:166:LEU:HG	1.97	0.47
1:RL:207:ASN:HA	1:QR:274:ASP:OD1	2.15	0.47
1:ZL:200:LYS:HA	1:ZL:203:GLU:HG3	1.96	0.47
3:AM:73:ALA:HB1	3:AM:120:LEU:HB3	1.96	0.47
3:AN:58:LEU:HD11	3:AN:143:MET:HE1	1.96	0.47
1:AP:256:ALA:HA	1:KP:260:GLN:HB2	1.96	0.47
1:BP:172:ARG:NH1	1:BP:275:ASP:O	2.48	0.47
1:DP:16:LYS:HB2	1:DP:19:LYS:HE2	1.96	0.47
1:LP:147:ASP:N	1:LP:147:ASP:OD1	2.46	0.47
1:KQ:259:PHE:O	1:KQ:260:GLN:CG	2.62	0.47
1:TQ:71:ARG:HD3	1:TQ:271:ILE:HD12	1.96	0.47
1:YQ:71:ARG:HD3	1:YQ:271:ILE:HD12	1.96	0.47
1:bQ:96:PRO:HD2	1:dQ:166:LEU:HG	1.97	0.47
1:bQ:98:ASN:HD22	1:bQ:99:MET:N	2.12	0.47
1:DR:71:ARG:HD3	1:DR:271:ILE:HD12	1.96	0.47
1:JR:64:ILE:CD1	1:KR:88:GLU:CG	2.93	0.47
1:JR:200:LYS:HA	1:JR:203:GLU:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QR:96:PRO:HD2	1:SR:166:LEU:HG	1.97	0.47
1:bR:134:ASN:HA	1:bR:371:GLU:HA	1.97	0.47
1:gR:96:PRO:HD2	1:iR:166:LEU:HG	1.97	0.47
1:iR:259:PHE:O	1:iR:260:GLN:CG	2.62	0.47
1:AS:268:ASP:HA	2:ES:44:GLN:HB2	1.96	0.47
1:BS:70:ASN:HD22	1:BS:168:GLU:HB3	1.80	0.47
2:FS:29:ASN:HB3	2:FS:32:ILE:HG23	1.97	0.47
1:C1:80:ASP:OD2	1:Y8:145:LEU:CG	2.63	0.47
1:Q1:361:LYS:NZ	1:Q8:370:ASP:CG	2.73	0.47
1:Q1:370:ASP:OD1	1:IG:361:LYS:CE	2.63	0.47
1:R1:382:LYS:HG3	1:CJ:33:TRP:HA	1.97	0.47
1:T1:136:ASN:HA	1:CJ:81:PHE:CE2	2.50	0.47
2:U1:11:MET:HG2	1:CJ:133:LEU:HB2	1.95	0.47
1:X1:98:ASN:HD22	1:X1:99:MET:N	2.12	0.47
1:X1:274:ASP:OD1	1:J6:207:ASN:HA	2.15	0.47
1:X1:370:ASP:OD1	1:I8:361:LYS:CE	2.63	0.47
1:Z1:129:GLN:NE2	1:Z1:159:LYS:O	2.41	0.47
2:b1:45:ILE:CG1	2:b1:46:HIS:H	2.23	0.47
1:f1:14:VAL:HG23	1:B3:14:VAL:HG23	1.97	0.47
1:f1:86:SER:HB2	1:h1:60:GLU:HB2	1.95	0.47
1:f1:115:ARG:NH2	1:h1:299:ALA:O	2.47	0.47
1:g1:91:ILE:O	1:CQ:158:LYS:HE2	2.15	0.47
5:F2:27:ARG:HH11	5:D9:26:GLU:CG	2.27	0.47
5:C2:248:GLN:HB3	5:N9:230:SER:CB	2.45	0.47
5:O2:351:ASN:O	5:CB:244:ALA:HB2	2.15	0.47
1:A3:207:ASN:HA	1:g7:274:ASP:OD1	2.15	0.47
1:B3:259:PHE:O	1:B3:260:GLN:CG	2.62	0.47
1:D3:152:ALA:HB1	2:E3:8:ARG:HH22	1.80	0.47
1:I3:368:GLU:O	1:RR:99:MET:HE1	2.14	0.47
1:I3:370:ASP:CG	1:QL:361:LYS:NZ	2.73	0.47
1:J3:91:ILE:O	1:Q8:158:LYS:HE2	2.15	0.47
1:Q3:361:LYS:NZ	1:CR:370:ASP:CG	2.73	0.47
1:Q3:368:GLU:O	1:Z8:99:MET:HE1	2.15	0.47
1:R3:207:ASN:HA	1:I8:274:ASP:OD1	2.15	0.47
2:V3:31:SER:HB3	2:X3:45:ILE:HG21	1.97	0.47
1:C4:259:PHE:CE1	1:RG:259:PHE:CD1	2.98	0.47
1:C4:370:ASP:OD1	1:CG:361:LYS:CE	2.63	0.47
1:S4:99:MET:O	1:BS:25:PHE:HA	2.15	0.47
1:T4:30:SER:O	1:BS:315:ALA:CA	2.44	0.47
1:T4:31:LYS:HB2	1:BS:314:GLY:O	2.15	0.47
2:U4:31:SER:HB3	2:W4:45:ILE:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:370:ASP:OD1	1:CR:361:LYS:CE	2.63	0.47
1:Y4:345:LEU:HD11	1:Y4:350:ILE:HD11	1.95	0.47
2:b4:21:ASN:O	2:b4:23:ARG:NH1	2.48	0.47
1:f4:64:ILE:HB	1:ZG:90:VAL:HG12	1.97	0.47
1:g4:120:LEU:HB2	1:CD:39:TRP:HB2	1.97	0.47
1:h4:100:ASP:HA	1:CD:25:PHE:C	2.24	0.47
1:h4:291:GLN:NE2	1:h4:295:ASP:OD2	2.47	0.47
5:O5:351:ASN:O	5:CN:244:ALA:HB2	2.15	0.47
1:I6:370:ASP:CG	1:YR:361:LYS:NZ	2.73	0.47
1:K6:14:VAL:HG23	1:CL:14:VAL:HG23	1.97	0.47
1:K6:291:GLN:NE2	1:K6:295:ASP:OD2	2.47	0.47
1:Q6:38:LYS:CD	1:LJ:222:SER:CA	2.55	0.47
1:S6:135:ASN:O	1:AS:81:PHE:CE2	2.68	0.47
1:T6:134:ASN:HA	1:T6:371:GLU:HA	1.97	0.47
1:Z6:64:ILE:CD1	1:a6:88:GLU:CG	2.93	0.47
1:Z6:259:PHE:CD1	1:KE:259:PHE:CE1	2.98	0.47
2:f6:11:MET:HE3	1:QQ:372:VAL:HG12	1.96	0.47
1:g6:35:PHE:CZ	1:LP:178:TYR:CA	2.98	0.47
1:i6:46:PHE:CZ	1:DJ:39:TRP:CZ3	3.03	0.47
1:C7:222:SER:HG	1:DP:53:TYR:HD1	0.68	0.47
1:A7:345:LEU:HD11	1:A7:350:ILE:HD11	1.95	0.47
1:I7:370:ASP:OD1	1:gR:361:LYS:CE	2.63	0.47
1:J7:115:ARG:NH2	1:bQ:300:TYR:CA	2.75	0.47
1:Q7:361:LYS:NZ	1:QR:370:ASP:CG	2.73	0.47
1:Y7:64:ILE:HB	1:JR:90:VAL:HG12	1.97	0.47
1:Y7:300:TYR:CA	1:JR:115:ARG:NH2	2.75	0.47
1:Z7:61:THR:C	1:Z7:62:LEU:HD13	2.40	0.47
1:Z7:200:LYS:HA	1:Z7:203:GLU:HG3	1.96	0.47
1:g7:49:PHE:CB	1:CE:137:ASP:OD2	2.59	0.47
1:g7:96:PRO:HD2	1:i7:166:LEU:HG	1.97	0.47
1:h7:64:ILE:CD1	1:i7:88:GLU:CG	2.93	0.47
1:I8:96:PRO:HD2	1:K8:166:LEU:HG	1.97	0.47
1:Q8:167:GLU:OE2	1:Q8:352:TYR:OH	2.26	0.47
1:a8:19:LYS:NZ	1:a8:37:ASP:OD1	2.37	0.47
1:g8:96:PRO:HD2	1:i8:166:LEU:HG	1.97	0.47
5:E9:64:TRP:CG	4:BB:30:LEU:HB3	2.49	0.47
3:AC:183:ILE:HD11	3:AC:222:LEU:HD23	1.97	0.47
4:BC:187:ILE:HB	4:BH:152:SER:OG	2.15	0.47
1:AD:54:LEU:CB	3:AF:151:ASN:CA	2.93	0.47
1:BD:172:ARG:NH1	1:BD:275:ASP:O	2.48	0.47
1:BD:210:ASN:OD1	1:DD:71:ARG:NH2	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:242:THR:HG21	1:CD:246:LEU:HD12	1.97	0.47
1:KD:32:SER:CB	1:IS:170:GLU:HG3	2.45	0.47
1:LD:289:GLN:N	1:LD:326:GLU:OE2	2.42	0.47
2:MD:51:GLN:HA	3:AF:114:PHE:CZ	2.50	0.47
1:CE:259:PHE:O	1:CE:260:GLN:CG	2.62	0.47
1:FE:27:HIS:CD2	1:CP:312:PRO:HG3	2.50	0.47
1:KE:321:VAL:HG21	1:KE:327:PHE:CE2	2.49	0.47
1:LE:64:ILE:CD1	1:ME:88:GLU:CG	2.93	0.47
2:RE:2:TYR:HB2	2:PQ:55:GLY:HA3	1.94	0.47
1:cE:14:VAL:HG23	1:CG:14:VAL:HG23	1.97	0.47
1:AG:85:TYR:HE2	1:YL:46:PHE:CD1	2.31	0.47
1:AG:207:ASN:HA	1:YL:274:ASP:OD1	2.15	0.47
1:BG:259:PHE:O	1:BG:260:GLN:CG	2.62	0.47
1:JG:200:LYS:HA	1:JG:203:GLU:HG3	1.96	0.47
1:LG:71:ARG:HD3	1:LG:271:ILE:HD12	1.96	0.47
2:VG:31:SER:HB3	2:XG:45:ILE:HG21	1.97	0.47
1:aG:135:ASN:O	1:BK:81:PHE:CE2	2.68	0.47
2:cG:21:ASN:O	2:cG:23:ARG:NH1	2.48	0.47
1:gG:96:PRO:HD2	1:iG:166:LEU:HG	1.97	0.47
1:gG:98:ASN:HD22	1:gG:99:MET:N	2.12	0.47
1:gG:274:ASP:OD1	1:AL:207:ASN:HA	2.15	0.47
3:AH:79:MET:HE2	3:AH:79:MET:HB3	1.81	0.47
3:AH:183:ILE:HD11	3:AH:222:LEU:HD23	1.97	0.47
4:BH:119:GLU:HB2	4:BH:218:GLN:H	1.78	0.47
4:BH:187:ILE:HB	4:BN:152:SER:OG	2.15	0.47
4:BH:188:ASP:HA	4:BN:150:ASP:O	2.14	0.47
5:CH:266:THR:CA	5:NN:230:SER:C	2.88	0.47
3:AI:183:ILE:HD11	3:AI:222:LEU:HD23	1.97	0.47
1:BJ:172:ARG:HA	1:BJ:175:LEU:HD23	1.96	0.47
1:KJ:32:SER:CB	1:AP:170:GLU:HG3	2.45	0.47
1:LJ:149:THR:HG23	2:ES:16:GLU:HB3	1.94	0.47
1:AK:63:LEU:HD23	1:KK:89:TYR:CZ	2.49	0.47
1:CK:38:LYS:CE	1:hR:222:SER:HA	1.90	0.47
1:DK:13:LEU:HD11	1:DK:39:TRP:HA	1.97	0.47
2:GK:29:ASN:HB3	2:GK:32:ILE:HG23	1.97	0.47
2:HK:11:MET:SD	1:jR:133:LEU:O	2.73	0.47
1:IL:14:VAL:HG23	1:KQ:14:VAL:HG23	1.97	0.47
1:IL:115:ARG:NH2	1:KL:299:ALA:O	2.47	0.47
1:IL:367:PRO:HG3	1:IQ:375:TRP:CZ3	2.47	0.47
1:JL:91:ILE:O	1:YR:158:LYS:HE2	2.15	0.47
2:PL:22:LYS:HG2	1:YR:360:LEU:HD23	1.89	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QL:158:LYS:HE2	1:RR:91:ILE:O	2.15	0.47
2:cL:21:ASN:O	2:cL:23:ARG:NH1	2.48	0.47
3:AM:106:ARG:C	2:LS:21:ASN:OD1	2.58	0.47
4:BM:123:GLN:HB3	4:BM:214:ALA:HB3	1.95	0.47
5:NM:230:SER:CB	5:CO:248:GLN:HB3	2.45	0.47
3:AN:156:ILE:HD12	3:AN:159:HIS:HB3	1.97	0.47
1:BP:268:ASP:HA	2:FP:44:GLN:HB2	1.96	0.47
1:KP:237:ASP:N	1:KP:237:ASP:OD1	2.48	0.47
1:CQ:321:VAL:HG21	1:CQ:327:PHE:CE2	2.49	0.47
1:CQ:361:LYS:NZ	1:gR:370:ASP:CG	2.73	0.47
1:DQ:134:ASN:HA	1:DQ:371:GLU:HA	1.97	0.47
2:EQ:21:ASN:O	2:EQ:23:ARG:NH1	2.48	0.47
1:TQ:134:ASN:HA	1:TQ:371:GLU:HA	1.97	0.47
2:UQ:21:ASN:O	2:UQ:23:ARG:NH1	2.48	0.47
1:YQ:134:ASN:HA	1:YQ:371:GLU:HA	1.97	0.47
2:gQ:1:MET:N	1:iR:150:ASN:ND2	2.61	0.47
1:IR:98:ASN:HD22	1:IR:99:MET:N	2.12	0.47
1:LR:134:ASN:HA	1:LR:371:GLU:HA	1.97	0.47
2:NR:31:SER:HB3	2:PR:45:ILE:HG21	1.97	0.47
1:YR:321:VAL:HG21	1:YR:327:PHE:CE2	2.49	0.47
1:AS:173:ALA:HB2	1:AS:279:VAL:HG11	1.96	0.47
1:C1:361:LYS:NZ	1:Y8:370:ASP:CG	2.73	0.47
1:B1:291:GLN:NE2	1:B1:295:ASP:OD2	2.47	0.47
1:D1:351:LYS:NZ	1:a4:60:GLU:OE2	2.43	0.47
1:I1:370:ASP:CG	1:SE:361:LYS:NZ	2.73	0.47
1:Q1:63:LEU:HD13	1:R6:89:TYR:HE2	1.71	0.47
1:Q1:158:LYS:HE2	1:R6:91:ILE:O	2.15	0.47
1:R1:61:THR:C	1:R1:62:LEU:HD13	2.40	0.47
1:R1:361:LYS:CE	1:CJ:370:ASP:OD2	2.61	0.47
2:W1:22:LYS:HG2	1:Q6:360:LEU:HD22	1.91	0.47
1:X1:96:PRO:HD2	1:Z1:166:LEU:HG	1.97	0.47
1:Y1:61:THR:C	1:Y1:62:LEU:HD13	2.40	0.47
1:Y1:345:LEU:HD11	1:Y1:350:ILE:HD11	1.95	0.47
1:f1:274:ASP:OD1	1:AQ:207:ASN:HA	2.15	0.47
5:F2:31:PHE:CE2	5:F9:46:TYR:CG	2.74	0.47
1:A3:90:VAL:HG12	1:g7:64:ILE:HB	1.97	0.47
1:I3:64:ILE:HB	1:R8:90:VAL:HG12	1.97	0.47
1:J3:90:VAL:HG12	1:Q8:64:ILE:HB	1.97	0.47
1:Q3:172:ARG:HD2	1:Q3:276:LEU:HD23	1.97	0.47
1:Q3:221:ALA:C	1:CR:38:LYS:HE2	2.40	0.47
1:Q3:372:VAL:HG12	2:f8:11:MET:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R3:91:ILE:O	1:I8:158:LYS:HE2	2.15	0.47
2:X3:53:PHE:O	1:I8:62:LEU:CD1	2.62	0.47
1:C4:38:LYS:HE2	1:CG:221:ALA:C	2.40	0.47
1:C4:96:PRO:HD2	1:B4:166:LEU:HG	1.97	0.47
1:C4:145:LEU:CG	1:CG:80:ASP:OD2	2.62	0.47
1:I4:80:ASP:OD2	1:QL:145:LEU:CG	2.63	0.47
1:I4:96:PRO:HD2	1:K4:166:LEU:HG	1.97	0.47
1:J4:200:LYS:HA	1:J4:203:GLU:HG3	1.96	0.47
1:L4:71:ARG:HD3	1:L4:271:ILE:HD12	1.96	0.47
1:Q4:145:LEU:CG	1:IL:80:ASP:OD2	2.62	0.47
2:W4:11:MET:CE	1:DD:372:VAL:HG23	2.27	0.47
1:Y4:90:VAL:HG12	1:Y8:64:ILE:HB	1.97	0.47
1:Y4:207:ASN:HA	1:Y8:274:ASP:OD1	2.15	0.47
1:f4:98:ASN:HD22	1:f4:99:MET:N	2.12	0.47
1:f4:145:LEU:CG	1:C6:80:ASP:OD2	2.63	0.47
1:f4:370:ASP:CG	1:C6:361:LYS:NZ	2.73	0.47
1:g4:123:ASN:ND2	1:CD:21:ALA:HB1	2.21	0.47
3:A5:6:ARG:CZ	5:DO:51:ARG:CB	2.93	0.47
4:B5:187:ILE:HB	4:BI:152:SER:OG	2.15	0.47
1:A6:99:MET:HE1	1:Y8:368:GLU:O	2.14	0.47
1:B6:259:PHE:O	1:B6:260:GLN:CG	2.62	0.47
1:D6:152:ALA:HB1	2:E6:8:ARG:HH22	1.80	0.47
1:I6:14:VAL:HG23	1:aR:14:VAL:HG23	1.97	0.47
1:I6:47:GLU:H	1:aR:20:SER:HB2	1.80	0.47
1:I6:361:LYS:CE	1:CL:370:ASP:OD1	2.63	0.47
1:K6:14:VAL:HG21	1:CL:14:VAL:HG23	1.94	0.47
1:K6:150:ASN:ND2	2:lG:1:MET:N	2.61	0.47
1:L6:152:ALA:HB1	2:M6:8:ARG:HH22	1.80	0.47
1:Y6:361:LYS:NZ	1:SE:370:ASP:CG	2.73	0.47
1:a6:259:PHE:O	1:a6:260:GLN:CG	2.62	0.47
1:g6:259:PHE:CE1	1:BE:259:PHE:CD1	2.98	0.47
1:g6:321:VAL:HG21	1:g6:327:PHE:CE2	2.49	0.47
1:g6:367:PRO:CD	1:LP:375:TRP:CH2	2.98	0.47
1:C7:96:PRO:HD2	1:B7:166:LEU:HG	1.97	0.47
1:C7:274:ASP:OD1	1:hR:207:ASN:HA	2.15	0.47
1:A7:61:THR:C	1:A7:62:LEU:HD13	2.40	0.47
1:A7:90:VAL:HG12	1:gR:64:ILE:HB	1.97	0.47
1:A7:259:PHE:HD1	1:B7:259:PHE:CE2	2.32	0.47
1:B7:129:GLN:NE2	1:B7:159:LYS:O	2.41	0.47
1:I7:96:PRO:HD2	1:K7:166:LEU:HG	1.97	0.47
1:I7:221:ALA:C	1:CQ:38:LYS:HE2	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J7:207:ASN:HA	1:bQ:274:ASP:OD1	2.15	0.47
1:L7:159:LYS:NZ	1:b8:94:THR:OG1	2.34	0.47
1:Q7:368:GLU:O	1:AG:99:MET:HE1	2.14	0.47
2:U7:21:ASN:O	2:U7:23:ARG:NH1	2.48	0.47
1:Y7:361:LYS:CE	1:KE:370:ASP:OD1	2.63	0.47
1:a7:259:PHE:O	1:a7:260:GLN:CG	2.62	0.47
2:c7:21:ASN:O	2:c7:23:ARG:NH1	2.48	0.47
1:g7:370:ASP:CG	1:AE:361:LYS:NZ	2.73	0.47
1:A8:259:PHE:HD1	1:B8:259:PHE:CE2	2.32	0.47
1:I8:370:ASP:CG	1:IR:361:LYS:NZ	2.73	0.47
1:h8:61:THR:C	1:h8:62:LEU:HD13	2.40	0.47
1:j8:103:LYS:HB2	1:BD:369:PHE:HZ	1.80	0.47
1:j8:105:GLU:O	1:CD:109:LEU:CD1	2.41	0.47
3:A9:63:ARG:HD3	3:A9:145:ASN:HD21	1.78	0.47
3:A9:63:ARG:HE	3:A9:285:ARG:HH22	1.62	0.47
4:B9:187:ILE:HB	4:BA:152:SER:OG	2.15	0.47
5:D9:132:ASN:HA	5:D9:135:LYS:HZ1	1.80	0.47
3:AA:108:THR:O	3:AA:132:TYR:OH	2.32	0.47
3:AA:156:ILE:HD12	3:AA:159:HIS:HB3	1.97	0.47
3:AB:154:ILE:O	3:AB:154:ILE:CG2	2.63	0.47
4:BB:250:ILE:HD12	3:AM:208:LYS:C	2.30	0.47
5:DB:45:TYR:CE2	5:EF:38:TYR:HB2	2.50	0.47
5:EB:37:ASP:OD2	3:AM:197:VAL:HG23	2.11	0.47
5:OB:355:GLN:OE1	5:CF:275:ASN:CG	2.55	0.47
5:FC:87:GLN:HG3	5:FC:91:LEU:HD23	1.96	0.47
1:AD:145:LEU:CD2	3:AF:33:ASN:CB	2.80	0.47
1:AD:210:ASN:ND2	1:LD:244:ASP:OD2	2.43	0.47
1:AD:244:ASP:N	1:AD:273:PHE:O	2.45	0.47
1:DD:280:PHE:HE2	1:DD:320:ASP:HA	1.79	0.47
1:KD:24:ASP:N	1:KD:24:ASP:OD1	2.46	0.47
1:KD:357:LYS:NZ	3:AF:144:GLN:OE1	2.31	0.47
1:LD:368:GLU:N	1:DK:375:TRP:CE3	2.83	0.47
1:AE:115:ARG:NH2	1:CE:299:ALA:O	2.47	0.47
1:BE:120:LEU:HB2	1:CP:39:TRP:HB2	1.97	0.47
1:KE:368:GLU:O	1:JR:99:MET:HE1	2.14	0.47
1:SE:64:ILE:HB	1:JQ:90:VAL:HG12	1.97	0.47
1:SE:96:PRO:HD2	1:UE:166:LEU:HG	1.97	0.47
1:SE:274:ASP:OD1	1:JQ:207:ASN:HA	2.15	0.47
1:TE:64:ILE:CD1	1:UE:88:GLU:CG	2.93	0.47
1:UE:150:ASN:ND2	2:NG:1:MET:H3	2.13	0.47
1:aE:300:TYR:CA	1:AR:115:ARG:NH2	2.75	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aE:361:LYS:NZ	1:CG:370:ASP:CG	2.73	0.47
1:dE:145:LEU:HD23	2:eE:16:GLU:HA	1.97	0.47
5:DF:26:GLU:CG	5:FM:27:ARG:HH11	2.27	0.47
5:EF:140:ASP:O	5:CF:140:ASP:HA	2.15	0.47
2:EG:45:ILE:CG1	2:EG:46:HIS:H	2.23	0.47
1:iG:259:PHE:O	1:iG:260:GLN:CG	2.62	0.47
5:CH:265:LEU:CD1	5:NN:231:ASN:CA	2.74	0.47
5:CH:275:ASN:CG	5:ON:355:GLN:OE1	2.55	0.47
3:AI:6:ARG:CZ	5:DM:51:ARG:CB	2.93	0.47
3:AI:156:ILE:HD12	3:AI:159:HIS:HB3	1.97	0.47
1:BJ:172:ARG:NH1	1:BJ:275:ASP:O	2.48	0.47
1:DJ:89:TYR:CZ	1:KJ:63:LEU:HB2	2.49	0.47
1:DJ:173:ALA:C	1:LP:33:TRP:CZ2	2.93	0.47
1:KJ:29:TYR:OH	1:AP:297:LEU:HD12	2.00	0.47
1:KJ:107:LEU:CB	1:JS:369:PHE:CE2	2.77	0.47
1:KJ:145:LEU:HD23	2:MP:15:TYR:C	2.26	0.47
1:AK:170:GLU:HG3	1:KP:32:SER:CB	2.45	0.47
1:BK:351:LYS:O	1:BK:382:LYS:HA	2.15	0.47
1:CK:25:PHE:C	1:iR:100:ASP:HA	2.24	0.47
1:CK:39:TRP:HB2	1:hR:120:LEU:HB2	1.97	0.47
1:CL:96:PRO:HD2	1:BL:166:LEU:HG	1.97	0.47
1:BL:150:ASN:HD21	2:NL:1:MET:H3	1.59	0.47
1:IL:274:ASP:OD1	1:ZR:207:ASN:HA	2.15	0.47
1:LL:152:ALA:HB1	2:ML:8:ARG:HH22	1.80	0.47
1:RL:61:THR:C	1:RL:62:LEU:HD13	2.40	0.47
1:YL:321:VAL:HG21	1:YL:327:PHE:CE2	2.49	0.47
1:YL:370:ASP:CG	1:QR:361:LYS:NZ	2.73	0.47
1:aL:259:PHE:O	1:aL:260:GLN:CG	2.62	0.47
5:EM:140:ASP:O	5:CM:140:ASP:HA	2.15	0.47
5:NM:228:ARG:NH2	5:CO:264:GLY:O	2.48	0.47
1:BP:111:ARG:NH2	1:hR:105:GLU:CG	2.67	0.47
1:CP:250:LEU:HA	1:CP:254:LYS:HZ3	1.80	0.47
2:MP:8:ARG:HH11	2:MP:10:MET:H	1.61	0.47
1:BQ:14:VAL:HG23	1:gR:14:VAL:HG23	1.97	0.47
1:IQ:206:LEU:HD12	1:IQ:206:LEU:O	2.14	0.47
1:JQ:259:PHE:HD1	1:KQ:259:PHE:CE2	2.32	0.47
1:LQ:152:ALA:HB1	2:MQ:8:ARG:HH22	1.80	0.47
1:YQ:152:ALA:HB1	2:ZQ:8:ARG:HH22	1.80	0.47
1:IR:96:PRO:HD2	1:KR:166:LEU:HG	1.97	0.47
1:IR:115:ARG:NH2	1:KR:299:ALA:O	2.47	0.47
1:TR:134:ASN:HA	1:TR:371:GLU:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:cR:21:ASN:O	2:cR:23:ARG:NH1	2.48	0.47
1:iR:291:GLN:NE2	1:iR:295:ASP:OD2	2.47	0.47
1:AS:172:ARG:NH1	1:AS:275:ASP:O	2.48	0.47
1:CS:280:PHE:HE2	1:CS:320:ASP:HA	1.79	0.47
1:IS:244:ASP:N	1:IS:273:PHE:O	2.45	0.47
1:C1:14:VAL:HG23	1:dQ:14:VAL:HG21	1.94	0.46
1:A1:99:MET:HE1	1:f4:368:GLU:O	2.14	0.46
2:E1:38:GLU:N	2:E1:38:GLU:CD	2.72	0.46
2:N1:10:MET:HG2	1:S8:365:HIS:HD2	1.79	0.46
1:Y1:90:VAL:HG12	1:I6:64:ILE:HB	1.97	0.46
1:f1:80:ASP:OD2	1:QG:145:LEU:CG	2.62	0.46
2:m1:22:LYS:HG2	1:CQ:360:LEU:HD21	1.95	0.46
5:E2:13:ASP:N	5:E2:13:ASP:OD1	2.45	0.46
1:C3:372:VAL:HG12	2:H4:11:MET:HE3	1.96	0.46
1:I3:81:PHE:HZ	1:I4:136:ASN:O	1.99	0.46
1:S3:150:ASN:ND2	2:fE:1:MET:H3	2.13	0.46
1:T3:152:ALA:HB1	2:U3:8:ARG:HH22	1.80	0.46
1:Y3:315:ALA:HA	1:BK:30:SER:O	2.14	0.46
1:C4:158:LYS:HE2	1:RG:91:ILE:O	2.15	0.46
1:A4:61:THR:C	1:A4:62:LEU:HD13	2.40	0.46
1:J4:367:PRO:O	1:L4:377:HIS:NE2	2.38	0.46
2:N4:1:MET:N	1:i7:150:ASN:ND2	2.61	0.46
1:Q4:172:ARG:HD2	1:Q4:276:LEU:HD23	1.97	0.46
1:Q4:300:TYR:CA	1:h8:115:ARG:NH2	2.75	0.46
1:R4:91:ILE:O	1:g8:158:LYS:HE2	2.15	0.46
1:T4:31:LYS:N	1:BS:314:GLY:C	2.70	0.46
1:Y4:85:TYR:CE2	1:Y8:46:PHE:CE1	3.03	0.46
1:a4:145:LEU:HD23	2:b4:16:GLU:HA	1.97	0.46
1:f4:46:PHE:CE1	1:ZG:85:TYR:CE2	3.03	0.46
1:f4:274:ASP:OD1	1:ZG:207:ASN:HA	2.15	0.46
1:g4:101:LEU:N	1:DK:25:PHE:O	2.47	0.46
1:g4:104:ASN:HB2	1:BK:110:LYS:NZ	2.29	0.46
3:A5:65:ASN:HB3	1:AJ:149:THR:CB	2.42	0.46
5:E5:38:TYR:HB2	5:DI:45:TYR:CE2	2.50	0.46
5:C5:264:GLY:O	5:NI:228:ARG:NH2	2.48	0.46
5:C5:264:GLY:CA	5:NI:228:ARG:HH22	2.25	0.46
5:C5:265:LEU:HD23	5:NI:233:GLU:H	1.72	0.46
1:Q6:120:LEU:O	1:CS:37:ASP:N	2.47	0.46
1:Q6:172:ARG:HD2	1:Q6:276:LEU:HD23	1.97	0.46
1:R6:99:MET:HE1	1:Q8:368:GLU:O	2.14	0.46
1:T6:152:ALA:HB1	2:U6:8:ARG:HH22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y6:98:ASN:HD22	1:Y6:99:MET:N	2.12	0.46
1:Y6:115:ARG:NH2	1:a6:299:ALA:O	2.47	0.46
1:g6:46:PHE:CE1	1:BE:85:TYR:CE2	3.03	0.46
1:C7:30:SER:CA	1:LK:315:ALA:HB2	2.45	0.46
1:C7:31:LYS:HE2	1:LK:314:GLY:CA	2.45	0.46
1:B7:46:PHE:CZ	1:DP:39:TRP:CZ3	3.03	0.46
1:B7:135:ASN:O	1:BP:81:PHE:CE2	2.68	0.46
2:E7:45:ILE:CG1	2:E7:46:HIS:H	2.23	0.46
1:I7:14:VAL:HG23	1:iR:14:VAL:HG21	1.94	0.46
1:J7:91:ILE:O	1:bQ:158:LYS:HE2	2.15	0.46
1:Q7:274:ASP:OD1	1:RQ:207:ASN:HA	2.15	0.46
1:R7:91:ILE:O	1:QQ:158:LYS:HE2	2.15	0.46
1:R7:207:ASN:HA	1:QQ:274:ASP:OD1	2.15	0.46
2:X7:2:TYR:HB2	2:PR:55:GLY:HA3	1.94	0.46
1:Y7:361:LYS:NZ	1:KE:370:ASP:CG	2.73	0.46
1:i7:14:VAL:HG23	1:C8:14:VAL:HG23	1.97	0.46
1:C8:96:PRO:HD2	1:B8:166:LEU:HG	1.97	0.46
1:Y8:172:ARG:HD2	1:Y8:276:LEU:HD23	1.97	0.46
1:Y8:361:LYS:CE	1:bQ:370:ASP:OD1	2.63	0.46
1:b8:152:ALA:HB1	2:c8:8:ARG:HH22	1.80	0.46
1:g8:35:PHE:CZ	1:KS:178:TYR:CA	2.98	0.46
3:A9:183:ILE:HD11	3:A9:222:LEU:HD23	1.97	0.46
3:AA:58:LEU:HD11	3:AA:143:MET:HE1	1.96	0.46
5:NA:178:ILE:HD11	5:NA:185:MET:HE3	1.95	0.46
5:NB:228:ARG:NH2	5:CF:264:GLY:O	2.48	0.46
1:DD:118:THR:OG1	1:KS:54:LEU:CA	2.55	0.46
1:KD:29:TYR:HE2	1:IS:297:LEU:HD21	1.81	0.46
1:LD:30:SER:N	1:BK:98:ASN:ND2	2.62	0.46
1:DE:145:LEU:HD23	2:EE:16:GLU:HA	1.97	0.46
1:KE:80:ASP:OD2	1:QQ:145:LEU:CG	2.63	0.46
1:KE:361:LYS:NZ	1:QQ:370:ASP:CG	2.73	0.46
1:KE:361:LYS:CE	1:QQ:370:ASP:OD1	2.63	0.46
1:ME:14:VAL:HG23	1:QQ:14:VAL:HG23	1.97	0.46
2:RE:11:MET:HE3	1:SE:372:VAL:HG12	1.96	0.46
1:SE:98:ASN:HD22	1:SE:99:MET:N	2.12	0.46
1:UE:150:ASN:HD21	2:NG:1:MET:H2	1.62	0.46
2:hE:22:LYS:HG2	1:CR:360:LEU:HD21	1.95	0.46
3:AF:108:THR:O	3:AF:132:TYR:OH	2.32	0.46
3:AF:183:ILE:HD11	3:AF:222:LEU:HD23	1.97	0.46
2:FG:1:MET:N	1:SR:150:ASN:ND2	2.61	0.46
2:HG:53:PHE:O	1:YL:62:LEU:CD1	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IG:96:PRO:HD2	1:KG:166:LEU:HG	1.97	0.46
1:QG:172:ARG:HD2	1:QG:276:LEU:HD23	1.97	0.46
1:RG:259:PHE:HD1	1:SG:259:PHE:CE2	2.32	0.46
2:UG:21:ASN:O	2:UG:23:ARG:NH1	2.48	0.46
1:aG:31:LYS:HB2	1:BK:314:GLY:O	2.14	0.46
1:bG:145:LEU:HD23	2:cG:16:GLU:HA	1.97	0.46
1:gG:158:LYS:HE2	1:AL:91:ILE:O	2.15	0.46
1:gG:300:TYR:CA	1:AL:115:ARG:NH2	2.75	0.46
5:DH:132:ASN:HA	5:DH:135:LYS:HZ2	1.80	0.46
5:EH:38:TYR:CB	5:DN:45:TYR:HE2	2.28	0.46
5:CH:248:GLN:HB3	5:NN:230:SER:CB	2.45	0.46
3:AI:63:ARG:HE	3:AI:285:ARG:HH22	1.62	0.46
5:FI:27:ARG:HH11	5:DO:26:GLU:CG	2.27	0.46
1:BJ:29:TYR:HB3	1:gL:315:ALA:HB1	1.98	0.46
1:BJ:145:LEU:CD2	1:gL:82:ILE:CD1	2.86	0.46
1:BJ:162:ASP:HA	1:BJ:165:VAL:HG12	1.97	0.46
1:DJ:384:ILE:CD1	1:LP:35:PHE:CD1	2.86	0.46
2:HK:10:MET:CE	1:jR:365:HIS:CD2	2.70	0.46
1:AL:55:PHE:O	1:AL:57:LYS:NZ	2.46	0.46
1:JL:259:PHE:HD1	1:KL:259:PHE:CE2	2.32	0.46
2:hL:21:ASN:O	2:hL:23:ARG:NH1	2.48	0.46
3:AO:63:ARG:HE	3:AO:285:ARG:HH22	1.62	0.46
3:AO:154:ILE:CG2	3:AO:154:ILE:O	2.63	0.46
1:BP:110:LYS:NZ	1:hR:104:ASN:HB2	2.29	0.46
1:BQ:20:SER:HB2	1:gR:47:GLU:H	1.80	0.46
1:dQ:259:PHE:O	1:dQ:260:GLN:CG	2.62	0.46
1:AR:345:LEU:HD11	1:AR:350:ILE:HD11	1.95	0.46
2:FR:31:SER:HB3	2:HR:45:ILE:HG21	1.97	0.46
1:IR:172:ARG:HD2	1:IR:276:LEU:HD23	1.97	0.46
1:IR:321:VAL:HG21	1:IR:327:PHE:CE2	2.49	0.46
1:LR:71:ARG:HD3	1:LR:271:ILE:HD12	1.96	0.46
1:QR:172:ARG:HD2	1:QR:276:LEU:HD23	1.97	0.46
1:aR:19:LYS:NZ	1:aR:37:ASP:OD1	2.37	0.46
1:IS:63:LEU:HD23	1:JS:89:TYR:CZ	2.49	0.46
1:IS:256:ALA:HA	1:JS:260:GLN:HB2	1.96	0.46
2:MS:45:ILE:HG22	2:MS:46:HIS:CD2	2.50	0.46
1:A1:90:VAL:HG12	1:C6:64:ILE:HB	1.97	0.46
1:D1:152:ALA:HB1	2:E1:8:ARG:HH22	1.80	0.46
1:I1:14:VAL:HG23	1:UE:14:VAL:HG23	1.97	0.46
1:I1:96:PRO:HD2	1:K1:166:LEU:HG	1.97	0.46
1:I1:115:ARG:NH2	1:K1:299:ALA:O	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:368:GLU:O	1:JQ:99:MET:HE1	2.15	0.46
1:Q1:46:PHE:CE1	1:R6:85:TYR:CE2	3.03	0.46
1:Q1:49:PHE:CB	1:KG:137:ASP:OD2	2.59	0.46
1:X1:172:ARG:HD2	1:X1:276:LEU:HD23	1.97	0.46
1:X1:370:ASP:CG	1:I8:361:LYS:NZ	2.73	0.46
1:f1:98:ASN:HD22	1:f1:99:MET:N	2.12	0.46
1:f1:136:ASN:O	1:C3:81:PHE:HZ	1.99	0.46
1:f1:367:PRO:HG3	1:C3:375:TRP:CZ3	2.47	0.46
1:g1:85:TYR:CE2	1:CQ:46:PHE:CE1	3.03	0.46
1:i1:145:LEU:HD23	2:j1:16:GLU:HA	1.98	0.46
1:i1:152:ALA:HB1	2:j1:8:ARG:HH22	1.80	0.46
5:F2:38:TYR:OH	4:BB:10:ASP:OD2	2.24	0.46
1:C3:46:PHE:CE1	1:h7:85:TYR:CE2	3.03	0.46
1:A3:39:TRP:O	1:D3:222:SER:OG	2.32	0.46
1:A3:200:LYS:HA	1:A3:203:GLU:HG3	1.96	0.46
2:H3:55:GLY:HA3	2:n6:2:TYR:HB2	1.94	0.46
1:K3:39:TRP:O	1:A8:222:SER:OG	2.33	0.46
1:Q3:38:LYS:HE2	1:X4:221:ALA:C	2.40	0.46
1:Q3:177:ASP:OD2	1:CR:33:TRP:HZ2	1.96	0.46
1:Q3:361:LYS:CE	1:CR:370:ASP:OD1	2.63	0.46
1:C4:14:VAL:HG23	1:BG:14:VAL:HG23	1.97	0.46
1:C4:368:GLU:O	1:ZL:99:MET:HE1	2.14	0.46
1:A4:91:ILE:O	1:QG:158:LYS:HE2	2.15	0.46
1:A4:115:ARG:NH2	1:QG:300:TYR:CA	2.75	0.46
1:A4:200:LYS:HA	1:A4:203:GLU:HG3	1.96	0.46
2:F4:31:SER:HB3	2:H4:45:ILE:HG21	1.97	0.46
1:K4:137:ASP:OD2	1:QL:49:PHE:CB	2.59	0.46
1:Q4:361:LYS:NZ	1:IQ:370:ASP:CG	2.73	0.46
1:R4:259:PHE:CD1	1:g8:259:PHE:CE1	2.98	0.46
1:X4:158:LYS:HE2	1:Z8:91:ILE:O	2.15	0.46
1:X4:172:ARG:HD2	1:X4:276:LEU:HD23	1.97	0.46
1:f4:130:LYS:NZ	1:ZG:110:LYS:O	2.41	0.46
1:f4:172:ARG:HD2	1:f4:276:LEU:HD23	1.97	0.46
1:f4:361:LYS:CE	1:gG:370:ASP:OD1	2.63	0.46
1:g4:91:ILE:O	1:YG:158:LYS:HE2	2.15	0.46
1:h4:99:MET:O	1:CD:25:PHE:HA	2.15	0.46
1:i4:29:TYR:HB3	1:CD:315:ALA:HB1	1.98	0.46
1:i4:49:PHE:HB3	1:BD:137:ASP:OD2	2.16	0.46
3:A5:73:ALA:HB1	3:A5:120:LEU:HB3	1.96	0.46
3:A5:208:LYS:O	4:BO:250:ILE:CG1	2.57	0.46
5:F5:31:PHE:HE2	5:FI:47:ASP:CA	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C6:370:ASP:OD1	1:gG:361:LYS:CE	2.63	0.46
1:C6:370:ASP:CG	1:gG:361:LYS:NZ	2.73	0.46
1:B6:129:GLN:NE2	1:B6:159:LYS:O	2.41	0.46
1:I6:14:VAL:HG21	1:aR:14:VAL:HG23	1.96	0.46
1:K6:20:SER:HB2	1:CL:47:GLU:H	1.80	0.46
1:T6:103:LYS:HB2	1:AS:369:PHE:HZ	1.80	0.46
1:Z6:85:TYR:CE2	1:KE:46:PHE:CE1	3.03	0.46
1:a6:137:ASP:OD2	1:SE:49:PHE:CB	2.59	0.46
2:n6:11:MET:HE3	1:g7:372:VAL:HG12	1.96	0.46
1:C7:35:PHE:CZ	1:LK:178:TYR:CA	2.98	0.46
1:C7:45:MET:HG2	1:CK:14:VAL:CG2	2.45	0.46
1:C7:172:ARG:HD2	1:C7:276:LEU:HD23	1.97	0.46
1:A7:259:PHE:HE1	1:gR:259:PHE:HE1	1.48	0.46
2:F7:1:MET:N	1:BQ:150:ASN:ND2	2.61	0.46
2:M7:44:GLN:HB3	2:M7:45:ILE:H	1.63	0.46
1:Q7:64:ILE:HB	1:RQ:90:VAL:HG12	1.97	0.46
1:Q7:321:VAL:HG21	1:Q7:327:PHE:CE2	2.49	0.46
1:R7:168:GLU:OE2	1:S7:211:ASN:ND2	2.38	0.46
1:b7:145:LEU:HD23	2:c7:16:GLU:HA	1.97	0.46
1:g7:98:ASN:HD22	1:g7:99:MET:N	2.12	0.46
1:g7:361:LYS:NZ	1:C8:370:ASP:CG	2.73	0.46
2:E8:33:ASP:O	2:E8:36:LYS:NZ	2.43	0.46
1:Q8:81:PHE:HZ	1:IG:136:ASN:O	1.99	0.46
1:Q8:98:ASN:HD22	1:Q8:99:MET:N	2.12	0.46
1:Y8:221:ALA:C	1:bQ:38:LYS:HE2	2.40	0.46
2:l8:31:SER:HB3	2:n8:45:ILE:HG21	1.97	0.46
3:A9:66:ILE:HG22	1:AK:150:ASN:HA	1.97	0.46
4:B9:190:GLY:HA2	4:BA:149:LEU:HA	1.98	0.46
3:AB:183:ILE:HD11	3:AB:222:LEU:HD23	1.97	0.46
5:FB:46:TYR:CG	5:FF:31:PHE:CE2	2.74	0.46
5:EC:140:ASP:O	5:CC:140:ASP:HA	2.15	0.46
5:NC:320:ILE:HG23	5:NC:320:ILE:O	2.16	0.46
1:BD:240:ILE:HG13	1:BD:270:VAL:HA	1.96	0.46
1:KD:153:LEU:HD11	2:LS:2:TYR:HD2	1.60	0.46
2:EE:21:ASN:O	2:EE:23:ARG:NH1	2.48	0.46
1:AE:98:ASN:HD22	1:AE:99:MET:N	2.12	0.46
1:FE:29:TYR:HB3	1:CP:315:ALA:HB1	1.98	0.46
1:TE:55:PHE:O	1:TE:57:LYS:NZ	2.46	0.46
1:TE:85:TYR:CE2	1:IQ:46:PHE:CE1	3.03	0.46
1:aE:158:LYS:HE2	1:AR:91:ILE:O	2.15	0.46
1:aE:274:ASP:OD1	1:AR:207:ASN:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aE:361:LYS:CE	1:CG:370:ASP:OD1	2.63	0.46
1:bE:85:TYR:CE2	1:CR:46:PHE:CE1	3.04	0.46
1:bE:90:VAL:HG12	1:CR:64:ILE:HB	1.97	0.46
1:bE:207:ASN:HA	1:CR:274:ASP:OD1	2.15	0.46
3:AF:156:ILE:HD12	3:AF:159:HIS:HB3	1.97	0.46
5:FF:104:ILE:HA	5:FF:107:ASP:HB2	1.98	0.46
5:NF:228:ARG:NH2	5:CM:264:GLY:O	2.48	0.46
1:CG:64:ILE:HB	1:ZL:90:VAL:HG12	1.97	0.46
1:AG:85:TYR:CE2	1:YL:46:PHE:CE1	3.03	0.46
1:DG:152:ALA:HB1	2:EG:8:ARG:HH22	1.80	0.46
1:YG:172:ARG:HD2	1:YG:276:LEU:HD23	1.97	0.46
1:ZG:367:PRO:O	1:bG:377:HIS:NE2	2.38	0.46
1:aG:153:LEU:HB3	2:EK:2:TYR:CE2	2.36	0.46
3:AH:150:TYR:HE1	1:AP:148:ALA:CB	2.21	0.46
3:AH:156:ILE:HD12	3:AH:159:HIS:HB3	1.97	0.46
3:AH:308:THR:HG21	3:AN:300:LYS:HZ1	1.81	0.46
3:AI:81:LEU:CD1	1:JS:359:MET:HE1	2.44	0.46
3:AI:208:LYS:C	4:BM:250:ILE:HD12	2.30	0.46
5:CI:248:GLN:HB3	5:NO:230:SER:CB	2.45	0.46
1:BJ:71:ARG:HH22	1:BJ:272:SER:H	1.62	0.46
1:AK:82:ILE:CD1	1:KP:144:THR:N	2.74	0.46
1:CK:33:TRP:CG	1:hR:174:MET:CG	2.97	0.46
1:CK:33:TRP:HA	1:hR:382:LYS:HG3	1.97	0.46
1:CK:197:LEU:HD11	1:CK:246:LEU:HD21	1.98	0.46
1:CK:312:PRO:CD	1:jR:27:HIS:HB3	2.46	0.46
1:CK:315:ALA:HB1	1:jR:29:TYR:HB3	1.98	0.46
2:MK:30:MET:SD	2:MK:30:MET:N	2.88	0.46
1:AL:200:LYS:HA	1:AL:203:GLU:HG3	1.96	0.46
1:IL:46:PHE:CE1	1:ZR:85:TYR:CE2	3.03	0.46
1:IL:136:ASN:O	1:IQ:81:PHE:HZ	1.99	0.46
1:IL:370:ASP:CG	1:IQ:361:LYS:NZ	2.73	0.46
1:JL:85:TYR:CE2	1:YR:46:PHE:CE1	3.03	0.46
1:LL:145:LEU:HD23	2:ML:16:GLU:HA	1.98	0.46
1:QL:46:PHE:CE1	1:RR:85:TYR:CE2	3.03	0.46
1:RL:85:TYR:CE2	1:QR:46:PHE:CE1	3.03	0.46
1:aL:291:GLN:NE2	1:aL:295:ASP:OD2	2.47	0.46
2:dL:31:SER:HB3	2:fL:45:ILE:HG21	1.97	0.46
3:AM:108:THR:O	3:AM:132:TYR:OH	2.32	0.46
5:NM:228:ARG:HH22	5:CO:264:GLY:CA	2.25	0.46
5:OM:351:ASN:O	5:CO:244:ALA:HB2	2.15	0.46
5:DO:132:ASN:HA	5:DO:135:LYS:HZ1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:172:ARG:HA	1:BP:175:LEU:HD23	1.96	0.46
1:CP:147:ASP:N	1:CP:147:ASP:OD1	2.47	0.46
1:LP:362:PRO:HA	1:LP:363:PRO:HD3	1.83	0.46
2:MP:30:MET:N	2:MP:30:MET:SD	2.88	0.46
1:JQ:200:LYS:HA	1:JQ:203:GLU:HG3	1.96	0.46
2:MQ:38:GLU:N	2:MQ:38:GLU:CD	2.72	0.46
1:TR:152:ALA:HB1	2:UR:8:ARG:HH22	1.80	0.46
1:AS:162:ASP:HA	1:AS:165:VAL:HG12	1.96	0.46
2:LS:30:MET:N	2:LS:30:MET:SD	2.88	0.46
1:C1:64:ILE:HB	1:A6:90:VAL:HG12	1.97	0.46
1:C1:259:PHE:CE1	1:A6:259:PHE:CD1	2.98	0.46
1:C1:370:ASP:OD1	1:bQ:361:LYS:CE	2.63	0.46
1:C1:370:ASP:CG	1:bQ:361:LYS:NZ	2.73	0.46
1:A1:61:THR:C	1:A1:62:LEU:HD13	2.40	0.46
1:A1:64:ILE:CD1	1:B1:88:GLU:CG	2.93	0.46
1:A1:222:SER:OG	1:iG:39:TRP:O	2.33	0.46
1:I1:33:TRP:HZ2	1:SE:177:ASP:OD2	1.96	0.46
1:Q1:80:ASP:OD2	1:Q8:145:LEU:CG	2.62	0.46
1:Q1:274:ASP:OD1	1:R6:207:ASN:HA	2.15	0.46
1:Q1:361:LYS:CE	1:Q8:370:ASP:OD1	2.63	0.46
1:R1:85:TYR:CE2	1:Q6:46:PHE:CE1	3.03	0.46
1:R1:200:LYS:HA	1:R1:203:GLU:HG3	1.96	0.46
1:R1:382:LYS:CD	1:CJ:32:SER:O	2.63	0.46
1:S1:99:MET:O	1:CJ:25:PHE:HA	2.15	0.46
1:S1:365:HIS:HD2	2:N3:10:MET:HG2	1.79	0.46
1:f1:46:PHE:CE1	1:AQ:85:TYR:CE2	3.03	0.46
1:f1:370:ASP:CG	1:C3:361:LYS:NZ	2.73	0.46
1:g1:61:THR:C	1:g1:62:LEU:HD13	2.40	0.46
1:g1:259:PHE:HD1	1:h1:259:PHE:CE2	2.32	0.46
4:B2:190:GLY:HA2	4:B9:149:LEU:HA	1.98	0.46
5:E2:64:TRP:HE1	4:BF:29:LYS:CA	2.25	0.46
1:C3:14:VAL:HG23	1:SG:14:VAL:HG23	1.97	0.46
1:C3:370:ASP:CG	1:QG:361:LYS:NZ	2.73	0.46
1:A3:99:MET:HE1	1:C8:368:GLU:O	2.15	0.46
1:A3:259:PHE:HD1	1:B3:259:PHE:CE2	2.32	0.46
1:I3:98:ASN:HD22	1:I3:99:MET:N	2.12	0.46
1:I3:361:LYS:NZ	1:I4:370:ASP:CG	2.73	0.46
1:K3:365:HIS:HD2	2:F8:10:MET:HG2	1.79	0.46
1:L3:361:LYS:HD3	1:L3:377:HIS:HD2	1.81	0.46
1:Q3:274:ASP:OD1	1:J8:207:ASN:HA	2.15	0.46
1:Q3:370:ASP:OD1	1:X4:361:LYS:CE	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R3:90:VAL:HG12	1:I8:64:ILE:HB	1.97	0.46
1:S3:14:VAL:HG23	1:CR:14:VAL:HG23	1.97	0.46
1:b3:315:ALA:HA	1:BD:30:SER:O	2.14	0.46
1:C4:370:ASP:CG	1:CG:361:LYS:NZ	2.73	0.46
1:Q4:158:LYS:HE2	1:h8:91:ILE:O	2.15	0.46
1:Q4:370:ASP:OD1	1:IL:361:LYS:CE	2.63	0.46
1:R4:64:ILE:CD1	1:S4:88:GLU:CG	2.93	0.46
1:R4:259:PHE:HD1	1:S4:259:PHE:CE2	2.32	0.46
1:T4:49:PHE:HB3	1:AS:137:ASP:OD2	2.15	0.46
1:T4:133:LEU:O	2:GS:11:MET:SD	2.73	0.46
1:X4:47:GLU:H	1:BR:20:SER:HB2	1.80	0.46
1:g4:259:PHE:HE1	1:YG:259:PHE:HE1	1.48	0.46
1:i4:71:ARG:HD3	1:i4:271:ILE:HD12	1.96	0.46
2:j4:1:MET:CA	1:CD:150:ASN:HD21	2.14	0.46
2:l4:53:PHE:O	1:YG:62:LEU:CD1	2.62	0.46
3:A5:156:ILE:HD12	3:A5:159:HIS:HB3	1.97	0.46
4:B5:149:LEU:HA	4:BN:190:GLY:HA2	1.98	0.46
5:F5:46:TYR:CG	5:FN:31:PHE:CE2	2.74	0.46
5:F5:47:ASP:N	5:FN:31:PHE:CZ	2.68	0.46
5:F5:104:ILE:HA	5:F5:107:ASP:HB2	1.98	0.46
1:C6:14:VAL:HG23	1:iG:14:VAL:HG21	1.94	0.46
1:A6:61:THR:C	1:A6:62:LEU:HD13	2.40	0.46
1:D6:351:LYS:NZ	1:bG:60:GLU:OE2	2.43	0.46
1:K6:365:HIS:HD2	2:lG:10:MET:HG2	1.79	0.46
1:T6:107:LEU:HD21	1:AS:369:PHE:HZ	1.78	0.46
1:Y6:96:PRO:HD2	1:a6:166:LEU:HG	1.97	0.46
1:Y6:172:ARG:HD2	1:Y6:276:LEU:HD23	1.97	0.46
1:Z6:259:PHE:HD1	1:a6:259:PHE:CE2	2.32	0.46
1:g6:45:MET:HG2	1:CP:14:VAL:CG2	2.45	0.46
1:C7:29:TYR:HD2	1:LK:317:PHE:CZ	2.23	0.46
1:C7:111:ARG:HG3	1:CP:105:GLU:CG	2.46	0.46
2:E7:21:ASN:O	2:E7:23:ARG:NH1	2.48	0.46
2:H7:11:MET:HE3	1:I7:372:VAL:HG12	1.96	0.46
1:J7:55:PHE:O	1:J7:57:LYS:NZ	2.46	0.46
2:M7:21:ASN:O	2:M7:23:ARG:NH1	2.48	0.46
1:Q7:361:LYS:CE	1:QR:370:ASP:OD1	2.63	0.46
1:R7:61:THR:C	1:R7:62:LEU:HD13	2.40	0.46
2:X7:22:LYS:HG2	1:QQ:360:LEU:HD21	1.95	0.46
1:Y7:46:PHE:CE1	1:JR:85:TYR:CE2	3.04	0.46
1:Y7:136:ASN:O	1:QQ:81:PHE:HZ	1.99	0.46
1:Y7:172:ARG:HD2	1:Y7:276:LEU:HD23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z7:41:ASN:ND2	1:Z7:54:LEU:O	2.46	0.46
1:g7:361:LYS:CE	1:C8:370:ASP:OD1	2.63	0.46
1:C8:115:ARG:NH2	1:B8:299:ALA:O	2.47	0.46
1:A8:61:THR:C	1:A8:62:LEU:HD13	2.40	0.46
1:T8:361:LYS:HD3	1:T8:377:HIS:HD2	1.81	0.46
1:h8:200:LYS:HA	1:h8:203:GLU:HG3	1.96	0.46
2:n8:11:MET:HE3	1:IQ:372:VAL:HG12	1.96	0.46
5:DA:132:ASN:HA	5:DA:135:LYS:HZ2	1.80	0.46
5:CA:266:THR:CA	5:NC:230:SER:C	2.88	0.46
3:AB:73:ALA:HB1	3:AB:120:LEU:HB3	1.96	0.46
5:CB:320:ILE:O	5:CB:320:ILE:HG23	2.16	0.46
4:BC:29:LYS:CA	5:EN:64:TRP:HE1	2.25	0.46
5:EC:38:TYR:HB2	5:DH:45:TYR:CE2	2.50	0.46
5:CC:264:GLY:CA	5:NH:228:ARG:HH22	2.25	0.46
1:KD:25:PHE:HB3	1:JS:101:LEU:H	1.80	0.46
1:AE:172:ARG:HD2	1:AE:276:LEU:HD23	1.97	0.46
1:BE:259:PHE:HD1	1:CE:259:PHE:CE2	2.32	0.46
1:FE:27:HIS:HB3	1:CP:312:PRO:CD	2.46	0.46
1:UE:150:ASN:ND2	2:NG:1:MET:N	2.61	0.46
5:DF:45:TYR:HE2	5:EM:38:TYR:CB	2.28	0.46
5:NF:230:SER:CB	5:CM:248:GLN:HB3	2.45	0.46
1:CG:372:VAL:HG12	2:HR:11:MET:HE3	1.96	0.46
1:AG:259:PHE:HD1	1:BG:259:PHE:CE2	2.32	0.46
1:JG:61:THR:C	1:JG:62:LEU:HD13	2.40	0.46
1:JG:168:GLU:OE2	1:KG:211:ASN:ND2	2.38	0.46
2:MG:21:ASN:O	2:MG:23:ARG:NH1	2.48	0.46
1:YG:111:ARG:HG3	1:CK:105:GLU:CG	2.46	0.46
1:bG:82:ILE:HD13	1:bG:82:ILE:HA	1.85	0.46
1:iG:362:PRO:HA	1:iG:363:PRO:HD3	1.79	0.46
2:kG:38:GLU:N	2:kG:38:GLU:CD	2.72	0.46
4:BH:190:GLY:HA2	4:BN:149:LEU:HA	1.98	0.46
1:BJ:157:LYS:HE3	2:iL:2:TYR:HE2	1.78	0.46
2:NJ:45:ILE:HG22	2:NJ:46:HIS:CD2	2.50	0.46
1:CK:128:LYS:NZ	1:jR:368:GLU:OE2	2.35	0.46
1:CK:244:ASP:N	1:CK:273:PHE:O	2.47	0.46
1:DK:178:TYR:OH	1:DK:217:GLU:OE2	2.28	0.46
1:KK:24:ASP:N	1:KK:24:ASP:OD1	2.46	0.46
1:LK:30:SER:N	1:BP:98:ASN:ND2	2.62	0.46
1:LK:368:GLU:N	1:DP:375:TRP:CE3	2.83	0.46
1:IL:98:ASN:HD22	1:IL:99:MET:N	2.12	0.46
1:JL:61:THR:C	1:JL:62:LEU:HD13	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PL:22:LYS:HG2	1:YR:360:LEU:HD21	1.95	0.46
1:QL:274:ASP:OD1	1:RR:207:ASN:HA	2.15	0.46
1:RL:200:LYS:HA	1:RL:203:GLU:HG3	1.96	0.46
2:UL:21:ASN:O	2:UL:23:ARG:NH1	2.48	0.46
1:YL:49:PHE:CB	1:SR:137:ASP:OD2	2.59	0.46
1:bL:134:ASN:HA	1:bL:371:GLU:HA	1.97	0.46
1:CP:136:ASN:OD1	1:CP:137:ASP:N	2.48	0.46
1:BQ:14:VAL:HG23	1:gR:14:VAL:HG21	1.96	0.46
1:BQ:19:LYS:NZ	1:BQ:37:ASP:OD1	2.37	0.46
1:DQ:145:LEU:HD23	2:EQ:16:GLU:HA	1.98	0.46
1:JQ:64:ILE:CD1	1:KQ:88:GLU:CG	2.93	0.46
2:ZQ:45:ILE:CG1	2:ZQ:46:HIS:H	2.23	0.46
2:aQ:2:TYR:CE2	1:AS:157:LYS:CE	2.90	0.46
1:LR:325:LYS:NZ	1:LR:325:LYS:CB	2.73	0.46
1:bR:145:LEU:HD23	2:cR:16:GLU:HA	1.98	0.46
1:JS:87:GLU:HB3	1:JS:120:LEU:HA	1.96	0.46
1:C1:302:ASP:CG	1:Y8:29:TYR:HH	2.07	0.46
1:C1:361:LYS:CE	1:Y8:370:ASP:OD1	2.63	0.46
1:C1:372:VAL:HG12	2:P7:11:MET:HE3	1.96	0.46
1:I1:136:ASN:O	1:SE:81:PHE:HZ	1.99	0.46
1:I1:370:ASP:OD1	1:SE:361:LYS:CE	2.63	0.46
1:J1:99:MET:HE1	1:Q1:368:GLU:O	2.15	0.46
1:L1:134:ASN:HA	1:L1:371:GLU:HA	1.97	0.46
1:L1:179:SER:OG	1:L1:341:TYR:OH	2.29	0.46
1:L1:361:LYS:HD3	1:L1:377:HIS:HD2	1.81	0.46
2:P1:2:TYR:HB2	2:X6:55:GLY:HA3	1.94	0.46
1:Q1:136:ASN:O	1:IG:81:PHE:HZ	1.99	0.46
1:X1:221:ALA:C	1:IR:38:LYS:HE2	2.40	0.46
1:Z1:14:VAL:HG23	1:IR:14:VAL:HG23	1.97	0.46
1:a1:71:ARG:HD3	1:a1:271:ILE:HD12	1.96	0.46
1:a1:361:LYS:HD3	1:a1:377:HIS:HD2	1.81	0.46
1:f1:158:LYS:HE2	1:AQ:91:ILE:O	2.15	0.46
1:f1:221:ALA:C	1:QG:38:LYS:HE2	2.40	0.46
1:f1:361:LYS:CE	1:QG:370:ASP:OD1	2.63	0.46
2:k1:1:MET:H2	1:K7:150:ASN:HD21	1.61	0.46
5:E2:38:TYR:CB	5:D9:45:TYR:HE2	2.28	0.46
1:A3:64:ILE:CD1	1:B3:88:GLU:CG	2.93	0.46
1:D3:361:LYS:HD3	1:D3:377:HIS:HD2	1.81	0.46
2:E3:38:GLU:N	2:E3:38:GLU:CD	2.72	0.46
1:I3:145:LEU:CG	1:QL:80:ASP:OD2	2.62	0.46
1:I3:370:ASP:OD1	1:QL:361:LYS:CE	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q3:136:ASN:O	1:X4:81:PHE:HZ	1.99	0.46
1:Y3:134:ASN:HA	1:Y3:371:GLU:HA	1.97	0.46
2:Z3:21:ASN:O	2:Z3:23:ARG:NH1	2.48	0.46
1:b3:315:ALA:HB1	1:BD:29:TYR:HB3	1.98	0.46
1:C4:46:PHE:CE1	1:RG:85:TYR:CE2	3.04	0.46
1:C4:172:ARG:HD2	1:C4:276:LEU:HD23	1.97	0.46
1:B4:20:SER:HB2	1:aE:47:GLU:H	1.80	0.46
1:I4:81:PHE:HZ	1:QL:136:ASN:O	1.99	0.46
1:I4:172:ARG:HD2	1:I4:276:LEU:HD23	1.97	0.46
1:J4:61:THR:C	1:J4:62:LEU:HD13	2.40	0.46
2:M4:21:ASN:O	2:M4:23:ARG:NH1	2.48	0.46
1:Q4:370:ASP:CG	1:IL:361:LYS:NZ	2.73	0.46
1:R4:61:THR:C	1:R4:62:LEU:HD13	2.40	0.46
1:R4:85:TYR:CE2	1:g8:46:PHE:CE1	3.04	0.46
1:S4:14:VAL:HG23	1:IQ:14:VAL:HG23	1.97	0.46
2:W4:2:TYR:CA	1:DD:150:ASN:OD1	2.64	0.46
1:X4:46:PHE:CE1	1:Z8:85:TYR:CE2	3.04	0.46
1:X4:62:LEU:CD1	2:f8:53:PHE:O	2.62	0.46
1:g4:61:THR:C	1:g4:62:LEU:HD13	2.40	0.46
1:g4:85:TYR:CE2	1:YG:46:PHE:CE1	3.04	0.46
1:g4:259:PHE:HD1	1:h4:259:PHE:CE2	2.32	0.46
1:i4:94:THR:OG1	1:DL:159:LYS:NZ	2.34	0.46
1:i4:365:HIS:CD2	2:HD:10:MET:CE	2.70	0.46
4:B5:152:SER:OG	4:BN:187:ILE:HB	2.15	0.46
5:N5:230:SER:CB	5:CN:248:GLN:HB3	2.45	0.46
1:A6:64:ILE:CD1	1:B6:88:GLU:CG	2.93	0.46
1:D6:134:ASN:HA	1:D6:371:GLU:HA	1.97	0.46
1:D6:145:LEU:HD23	2:E6:16:GLU:HA	1.97	0.46
1:I6:370:ASP:OD1	1:YR:361:LYS:CE	2.63	0.46
2:M6:45:ILE:CG1	2:M6:46:HIS:H	2.23	0.46
1:R6:61:THR:C	1:R6:62:LEU:HD13	2.40	0.46
1:Z6:61:THR:C	1:Z6:62:LEU:HD13	2.40	0.46
1:Z6:89:TYR:HE2	1:KE:63:LEU:HD13	1.71	0.46
1:Z6:99:MET:HE1	1:QQ:368:GLU:O	2.15	0.46
2:c6:40:SER:CB	1:Y7:262:ALA:O	2.64	0.46
2:d6:1:MET:N	1:a7:150:ASN:ND2	2.61	0.46
1:h6:85:TYR:CE2	1:AE:46:PHE:CE1	3.04	0.46
1:h6:99:MET:HE1	1:g7:368:GLU:O	2.15	0.46
1:h6:367:PRO:O	1:j6:377:HIS:NE2	2.38	0.46
1:j6:94:THR:OG1	1:gL:159:LYS:NZ	2.34	0.46
1:j6:361:LYS:HD3	1:j6:377:HIS:HD2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B7:153:LEU:HB3	2:EP:2:TYR:CE2	2.36	0.46
1:I7:47:GLU:H	1:iR:20:SER:HB2	1.80	0.46
1:J7:200:LYS:HA	1:J7:203:GLU:HG3	1.96	0.46
1:Q7:81:PHE:HZ	1:QR:136:ASN:O	1.99	0.46
1:T7:159:LYS:NZ	1:NE:94:THR:OG1	2.34	0.46
1:T7:361:LYS:HD3	1:T7:377:HIS:HD2	1.81	0.46
1:Y7:33:TRP:HZ2	1:QQ:177:ASP:OD2	1.96	0.46
1:Y7:81:PHE:HZ	1:KE:136:ASN:O	1.99	0.46
1:a7:14:VAL:HG23	1:KE:14:VAL:HG23	1.97	0.46
1:g7:81:PHE:HZ	1:C8:136:ASN:O	1.99	0.46
1:g7:221:ALA:C	1:C8:38:LYS:HE2	2.40	0.46
1:h7:55:PHE:O	1:h7:57:LYS:NZ	2.46	0.46
1:A8:99:MET:HE1	1:QL:368:GLU:O	2.15	0.46
1:D8:134:ASN:HA	1:D8:371:GLU:HA	1.97	0.46
1:D8:361:LYS:HD3	1:D8:377:HIS:HD2	1.81	0.46
1:I8:14:VAL:HG23	1:KR:14:VAL:HG23	1.97	0.46
1:I8:98:ASN:HD22	1:I8:99:MET:N	2.12	0.46
1:I8:136:ASN:O	1:IR:81:PHE:HZ	1.99	0.46
1:L8:134:ASN:HA	1:L8:371:GLU:HA	1.97	0.46
1:Q8:361:LYS:NZ	1:IG:370:ASP:CG	2.73	0.46
1:Z8:61:THR:C	1:Z8:62:LEU:HD13	2.40	0.46
1:Z8:259:PHE:HD1	1:a8:259:PHE:CE2	2.32	0.46
1:g8:14:VAL:CG1	1:BS:45:MET:HE3	2.33	0.46
1:g8:45:MET:HG2	1:BS:14:VAL:CG2	2.45	0.46
1:i8:153:LEU:HB3	2:ED:2:TYR:CE2	2.36	0.46
5:C9:248:GLN:HB3	5:NA:230:SER:CB	2.45	0.46
3:AB:108:THR:O	3:AB:132:TYR:OH	2.32	0.46
5:EB:64:TRP:HE1	4:BM:29:LYS:CA	2.25	0.46
5:FC:104:ILE:HA	5:FC:107:ASP:HB2	1.97	0.46
1:BD:218:VAL:HG21	1:BD:229:TYR:HB3	1.97	0.46
1:CD:250:LEU:HA	1:CD:254:LYS:HZ3	1.80	0.46
1:LD:22:LEU:HD23	1:KK:47:GLU:CD	2.38	0.46
1:LD:32:SER:HB3	1:DK:170:GLU:HB2	1.97	0.46
1:AE:96:PRO:HD2	1:CE:166:LEU:HG	1.97	0.46
1:BE:61:THR:C	1:BE:62:LEU:HD13	2.40	0.46
1:KE:172:ARG:HD2	1:KE:276:LEU:HD23	1.97	0.46
1:NE:361:LYS:HD3	1:NE:377:HIS:HD2	1.81	0.46
1:UE:291:GLN:NE2	1:UE:295:ASP:OD2	2.47	0.46
1:aE:46:PHE:CD1	1:AR:85:TYR:HE2	2.31	0.46
1:bE:61:THR:C	1:bE:62:LEU:HD13	2.40	0.46
1:cE:365:HIS:HD2	2:dL:10:MET:HG2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DF:45:TYR:CE2	5:EM:38:TYR:HB2	2.50	0.46
5:DF:60:ALA:CB	5:EM:18:LEU:HD12	2.44	0.46
1:IG:172:ARG:HD2	1:IG:276:LEU:HD23	1.97	0.46
1:LG:361:LYS:HD3	1:LG:377:HIS:HD2	1.81	0.46
1:RG:64:ILE:CD1	1:SG:88:GLU:CG	2.93	0.46
1:bG:103:LYS:HB2	1:BK:369:PHE:HZ	1.80	0.46
1:hG:259:PHE:CD1	1:CL:259:PHE:CE1	2.98	0.46
3:AH:104:GLN:HB2	2:MP:55:GLY:HA3	1.98	0.46
3:AI:153:ASP:OD1	3:AI:153:ASP:C	2.59	0.46
5:NI:320:ILE:O	5:NI:320:ILE:HG23	2.16	0.46
1:AJ:256:ALA:HA	1:KJ:260:GLN:HB2	1.96	0.46
1:BJ:367:PRO:HG3	1:gL:375:TRP:CZ3	2.50	0.46
1:LJ:30:SER:N	1:AS:98:ASN:ND2	2.62	0.46
1:LJ:368:GLU:N	1:CS:375:TRP:CE3	2.83	0.46
2:NJ:10:MET:HA	2:NJ:14:SER:CB	2.43	0.46
1:AK:298:ARG:HH22	1:AK:306:GLN:HA	1.81	0.46
1:CK:355:TYR:HE1	1:CK:357:LYS:HZ1	1.63	0.46
1:LK:22:LEU:HD23	1:KP:47:GLU:CD	2.38	0.46
1:CL:81:PHE:HZ	1:YR:136:ASN:O	1.99	0.46
1:DL:145:LEU:HD23	2:EL:16:GLU:HA	1.98	0.46
2:EL:21:ASN:O	2:EL:23:ARG:NH1	2.48	0.46
1:IL:158:LYS:HE2	1:ZR:91:ILE:O	2.15	0.46
1:ZL:259:PHE:HD1	1:aL:259:PHE:CE2	2.32	0.46
1:gL:71:ARG:HD3	1:gL:271:ILE:HD12	1.96	0.46
1:gL:361:LYS:HD3	1:gL:377:HIS:HD2	1.81	0.46
3:AM:63:ARG:HE	3:AM:285:ARG:HH22	1.62	0.46
5:FM:104:ILE:HA	5:FM:107:ASP:HB2	1.98	0.46
1:BP:218:VAL:HG21	1:BP:229:TYR:HB3	1.97	0.46
1:BP:335:LYS:NZ	1:BP:336:PRO:O	2.39	0.46
1:LP:24:ASP:OD1	1:LP:24:ASP:N	2.37	0.46
1:CQ:96:PRO:HD2	1:BQ:166:LEU:HG	1.97	0.46
1:DQ:152:ALA:HB1	2:EQ:8:ARG:HH22	1.80	0.46
1:JQ:39:TRP:O	1:LQ:222:SER:OG	2.32	0.46
1:LQ:361:LYS:HD3	1:LQ:377:HIS:HD2	1.81	0.46
1:QQ:172:ARG:HD2	1:QQ:276:LEU:HD23	1.97	0.46
2:fQ:38:GLU:N	2:fQ:38:GLU:CD	2.72	0.46
1:DR:82:ILE:HD13	1:DR:82:ILE:HA	1.85	0.46
1:RR:61:THR:C	1:RR:62:LEU:HD13	2.40	0.46
1:YR:96:PRO:HD2	1:aR:166:LEU:HG	1.97	0.46
1:YR:172:ARG:HD2	1:YR:276:LEU:HD23	1.97	0.46
2:dR:31:SER:HB3	2:fR:45:ILE:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:240:ILE:HG13	1:AS:270:VAL:HA	1.96	0.46
1:AS:335:LYS:NZ	1:AS:336:PRO:O	2.39	0.46
1:JS:263:GLY:O	2:LS:39:ASP:N	2.48	0.46
1:C1:274:ASP:OD1	1:A6:207:ASN:HA	2.15	0.46
1:D1:134:ASN:HA	1:D1:371:GLU:HA	1.97	0.46
1:D1:145:LEU:HD23	2:E1:16:GLU:HA	1.97	0.46
1:I1:38:LYS:HE2	1:SE:221:ALA:C	2.40	0.46
1:I1:49:PHE:HD1	1:UE:22:LEU:HD11	1.81	0.46
1:I1:81:PHE:HZ	1:Y6:136:ASN:O	1.99	0.46
1:I1:172:ARG:HD2	1:I1:276:LEU:HD23	1.97	0.46
1:J1:61:THR:C	1:J1:62:LEU:HD13	2.40	0.46
1:L1:145:LEU:HD23	2:M1:16:GLU:HA	1.97	0.46
1:Q1:262:ALA:O	2:M3:40:SER:CB	2.64	0.46
1:R1:104:ASN:O	1:CS:369:PHE:CZ	2.69	0.46
1:X1:47:GLU:H	1:K8:20:SER:HB2	1.80	0.46
1:X1:136:ASN:O	1:I8:81:PHE:HZ	1.99	0.46
1:X1:368:GLU:O	1:R3:99:MET:HE1	2.15	0.46
2:b1:21:ASN:O	2:b1:23:ARG:NH1	2.48	0.46
2:b1:40:SER:CB	1:YR:262:ALA:O	2.64	0.46
2:c1:22:LYS:HD2	2:c1:22:LYS:HA	1.73	0.46
2:e1:11:MET:HE3	1:CL:372:VAL:HG12	1.96	0.46
1:f1:361:LYS:NZ	1:QG:370:ASP:CG	2.73	0.46
3:A2:73:ALA:HB1	3:A2:120:LEU:HB3	1.96	0.46
5:F2:29:THR:HA	3:AB:9:ASN:CB	2.46	0.46
5:C2:264:GLY:O	5:N9:228:ARG:NH2	2.48	0.46
5:N2:230:SER:C	5:CB:266:THR:CA	2.88	0.46
5:N2:230:SER:CB	5:CB:248:GLN:HB3	2.45	0.46
1:C3:98:ASN:HD22	1:C3:99:MET:N	2.12	0.46
1:J3:168:GLU:OE2	1:K3:211:ASN:ND2	2.38	0.46
1:R3:64:ILE:CD1	1:S3:88:GLU:CG	2.93	0.46
1:T3:265:ASP:OD1	1:T3:265:ASP:N	2.48	0.46
1:C4:64:ILE:HB	1:RG:90:VAL:HG12	1.97	0.46
1:C4:361:LYS:CE	1:aE:370:ASP:OD1	2.63	0.46
1:A4:85:TYR:CE2	1:QG:46:PHE:CE1	3.04	0.46
1:D4:71:ARG:HD3	1:D4:271:ILE:HD12	1.96	0.46
1:K4:22:LEU:HD11	1:QL:49:PHE:HD1	1.81	0.46
1:L4:361:LYS:HD3	1:L4:377:HIS:HD2	1.81	0.46
2:M4:40:SER:CB	1:g7:262:ALA:O	2.64	0.46
1:Q4:46:PHE:CE1	1:h8:85:TYR:CE2	3.04	0.46
1:R4:90:VAL:HG12	1:g8:64:ILE:HB	1.97	0.46
1:R4:105:GLU:CG	1:BD:111:ARG:NH2	2.67	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:259:PHE:HE1	1:Z8:259:PHE:HE1	1.48	0.46
1:Y4:367:PRO:O	1:a4:377:HIS:NE2	2.38	0.46
1:h4:137:ASP:OD2	1:gG:49:PHE:CB	2.59	0.46
1:i4:27:HIS:HB3	1:CD:312:PRO:CD	2.46	0.46
2:j4:1:MET:HE1	2:HD:54:THR:HA	1.96	0.46
2:j4:11:MET:HG2	1:CD:133:LEU:HD23	1.88	0.46
3:A5:9:ASN:CB	5:FI:29:THR:HA	2.46	0.46
4:B5:190:GLY:HA2	4:BI:149:LEU:HA	1.98	0.46
5:C5:248:GLN:HB3	5:NI:230:SER:CB	2.45	0.46
1:C6:372:VAL:HG12	2:HL:11:MET:HE3	1.96	0.46
1:I6:81:PHE:HZ	1:CL:136:ASN:O	1.99	0.46
1:Q6:45:MET:HG2	1:CJ:14:VAL:CG2	2.45	0.46
1:S6:46:PHE:CZ	1:CS:39:TRP:CZ3	3.03	0.46
1:Y6:46:PHE:CE1	1:LE:85:TYR:CE2	3.04	0.46
1:g6:63:LEU:HD13	1:BE:89:TYR:HE2	1.71	0.46
1:g6:172:ARG:HD2	1:g6:276:LEU:HD23	1.97	0.46
2:l6:31:SER:HB3	2:n6:45:ILE:HG21	1.97	0.46
1:C7:143:GLN:CA	1:LK:82:ILE:HG12	2.19	0.46
1:B7:21:ALA:CB	1:DP:47:GLU:O	2.58	0.46
1:D7:71:ARG:HD3	1:D7:271:ILE:HD12	1.96	0.46
1:D7:361:LYS:HD3	1:D7:377:HIS:HD2	1.81	0.46
2:E7:40:SER:CB	1:CQ:262:ALA:O	2.64	0.46
2:F7:22:LYS:HD2	2:F7:22:LYS:HA	1.73	0.46
1:I7:81:PHE:HZ	1:CQ:136:ASN:O	1.99	0.46
1:J7:85:TYR:CE2	1:bQ:46:PHE:CE1	3.03	0.46
1:K7:22:LEU:HD11	1:CQ:49:PHE:HD1	1.81	0.46
1:L7:145:LEU:HD23	2:M7:16:GLU:HA	1.98	0.46
1:Q7:46:PHE:CE1	1:RQ:85:TYR:CE2	3.03	0.46
1:Q7:300:TYR:CA	1:RQ:115:ARG:NH2	2.75	0.46
1:R7:64:ILE:CD1	1:S7:88:GLU:CG	2.93	0.46
1:g7:177:ASP:OD2	1:C8:33:TRP:HZ2	1.96	0.46
1:g7:321:VAL:HG22	1:g7:327:PHE:CE2	2.51	0.46
1:i7:22:LEU:HD11	1:C8:49:PHE:HD1	1.81	0.46
1:C8:81:PHE:HZ	1:AE:136:ASN:O	1.99	0.46
1:C8:172:ARG:HD2	1:C8:276:LEU:HD23	1.97	0.46
1:D8:145:LEU:HD23	2:E8:16:GLU:HA	1.97	0.46
1:D8:179:SER:OG	1:D8:341:TYR:OH	2.29	0.46
2:M8:21:ASN:O	2:M8:23:ARG:NH1	2.48	0.46
2:U8:40:SER:CB	1:QL:262:ALA:O	2.64	0.46
2:V8:10:MET:HG2	1:SL:365:HIS:HD2	1.79	0.46
2:V8:31:SER:HB3	2:X8:45:ILE:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b8:71:ARG:HD3	1:b8:271:ILE:HD12	1.96	0.46
1:g8:172:ARG:HD2	1:g8:276:LEU:HD23	1.97	0.46
4:B9:6:MET:HE3	5:FA:38:TYR:CE2	2.45	0.46
5:C9:266:THR:CA	5:NA:230:SER:C	2.88	0.46
5:C9:320:ILE:O	5:C9:320:ILE:HG23	2.16	0.46
4:BA:187:ILE:HB	4:BC:152:SER:OG	2.15	0.46
5:FA:104:ILE:HA	5:FA:107:ASP:HB2	1.98	0.46
5:NA:320:ILE:HG23	5:NA:320:ILE:O	2.16	0.46
3:AB:63:ARG:HE	3:AB:285:ARG:HH22	1.62	0.46
3:AC:154:ILE:O	3:AC:154:ILE:CG2	2.63	0.46
5:CC:264:GLY:O	5:NH:228:ARG:NH2	2.48	0.46
1:AD:62:LEU:CD2	1:KD:88:GLU:HG2	2.43	0.46
1:AD:302:ASP:OD2	1:AD:305:SER:OG	2.25	0.46
1:DD:120:LEU:HB2	1:KS:39:TRP:CB	2.45	0.46
1:LD:24:ASP:OD1	1:LD:24:ASP:N	2.37	0.46
1:LD:39:TRP:CB	1:DK:120:LEU:HB2	2.45	0.46
2:MD:30:MET:N	2:MD:30:MET:SD	2.88	0.46
1:BE:223:GLY:HA3	1:CP:53:TYR:CE1	2.39	0.46
1:BE:367:PRO:O	1:FE:377:HIS:NE2	2.38	0.46
1:FE:325:LYS:NZ	1:FE:325:LYS:CB	2.73	0.46
1:SE:262:ALA:O	2:MG:40:SER:CB	2.64	0.46
1:aE:259:PHE:CE1	1:AR:259:PHE:CD1	2.98	0.46
1:aE:321:VAL:HG22	1:aE:327:PHE:CE2	2.51	0.46
1:CG:262:ALA:O	2:UG:40:SER:CB	2.64	0.46
1:CG:321:VAL:HG22	1:CG:327:PHE:CE2	2.51	0.46
2:FG:22:LYS:HA	2:FG:22:LYS:HD2	1.73	0.46
1:QG:115:ARG:NH2	1:SG:299:ALA:O	2.47	0.46
1:RG:61:THR:C	1:RG:62:LEU:HD13	2.40	0.46
1:RG:168:GLU:OE2	1:SG:211:ASN:ND2	2.38	0.46
1:gG:46:PHE:CE1	1:AL:85:TYR:CE2	3.03	0.46
1:gG:172:ARG:HD2	1:gG:276:LEU:HD23	1.97	0.46
1:hG:99:MET:HE1	1:YR:368:GLU:O	2.14	0.46
2:kG:44:GLN:HB3	2:kG:45:ILE:H	1.63	0.46
3:AH:112:ILE:N	2:MP:19:ARG:CZ	2.65	0.46
3:AH:154:ILE:O	3:AH:154:ILE:CG2	2.63	0.46
4:BI:187:ILE:HB	4:BO:152:SER:OG	2.15	0.46
1:CJ:41:ASN:ND2	1:CJ:46:PHE:O	2.46	0.46
1:KJ:33:TRP:CZ3	1:AP:170:GLU:HG2	2.49	0.46
1:KJ:194:LYS:HE2	1:KJ:194:LYS:HB3	1.82	0.46
1:KJ:213:ALA:HA	1:KJ:230:THR:HA	1.97	0.46
2:MJ:30:MET:SD	2:MJ:30:MET:N	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:25:PHE:HA	1:iR:99:MET:O	2.15	0.46
1:CK:38:LYS:C	1:hR:222:SER:CB	2.88	0.46
2:EK:8:ARG:HG3	2:EK:12:GLY:HA3	1.98	0.46
2:GK:53:PHE:HB3	1:KK:62:LEU:HD11	1.98	0.46
1:KK:101:LEU:H	1:KP:25:PHE:HB3	1.80	0.46
1:KK:213:ALA:HA	1:KK:230:THR:HA	1.97	0.46
1:LK:33:TRP:CZ2	1:DP:173:ALA:C	2.93	0.46
1:BL:22:LEU:HD11	1:YR:49:PHE:HD1	1.81	0.46
2:EL:44:GLN:HB3	2:EL:45:ILE:H	1.63	0.46
2:ML:38:GLU:N	2:ML:38:GLU:CD	2.72	0.46
1:RL:259:PHE:HD1	1:SL:259:PHE:CE2	2.32	0.46
1:aL:365:HIS:HD2	2:VQ:10:MET:HG2	1.79	0.46
5:DM:130:GLN:OE1	5:FM:128:MET:SD	2.74	0.46
3:AO:66:ILE:CG2	2:LS:54:THR:C	2.86	0.46
1:CP:197:LEU:HD11	1:CP:246:LEU:HD21	1.98	0.46
1:DP:13:LEU:HD11	1:DP:39:TRP:HA	1.97	0.46
1:CQ:81:PHE:HZ	1:gR:136:ASN:O	1.99	0.46
1:CQ:172:ARG:HD2	1:CQ:276:LEU:HD23	1.97	0.46
1:CQ:361:LYS:CE	1:gR:370:ASP:OD1	2.63	0.46
2:FQ:31:SER:HB3	2:HQ:45:ILE:HG21	1.97	0.46
2:gQ:10:MET:HG2	1:iR:365:HIS:HD2	1.79	0.46
1:KR:259:PHE:O	1:KR:260:GLN:CG	2.62	0.46
1:A1:259:PHE:CD1	1:C6:259:PHE:CE1	2.98	0.46
1:I1:262:ALA:O	2:OE:40:SER:CB	2.64	0.46
1:K1:14:VAL:HG23	1:Y6:14:VAL:HG21	1.96	0.46
1:K1:22:LEU:HD11	1:Y6:49:PHE:HD1	1.81	0.46
2:M1:33:ASP:O	2:M1:36:LYS:NZ	2.43	0.46
1:Q1:49:PHE:HD1	1:KG:22:LEU:HD11	1.81	0.46
1:X1:201:VAL:O	1:X1:205:ILE:HG13	2.16	0.46
1:X1:361:LYS:CE	1:IR:370:ASP:OD1	2.63	0.46
1:Z1:365:HIS:HD2	2:d7:10:MET:HG2	1.79	0.46
1:a1:134:ASN:HA	1:a1:371:GLU:HA	1.97	0.46
2:c1:31:SER:HB3	2:e1:45:ILE:HG21	1.97	0.46
1:f1:262:ALA:O	2:E4:40:SER:CB	2.64	0.46
1:g1:186:THR:HG21	1:g1:214:LYS:HD2	1.98	0.46
2:j1:38:GLU:N	2:j1:38:GLU:CD	2.72	0.46
4:B2:33:TYR:CE1	5:EA:57:GLU:HG2	2.50	0.46
5:D2:45:TYR:CE2	5:EB:38:TYR:HB2	2.50	0.46
5:C2:266:THR:CA	5:N9:230:SER:C	2.88	0.46
1:C3:64:ILE:HB	1:h7:90:VAL:HG12	1.97	0.46
1:C3:201:VAL:O	1:C3:205:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:85:TYR:HE2	1:g7:46:PHE:CD1	2.32	0.46
1:I3:116:MET:SD	1:I4:54:LEU:HG	2.56	0.46
2:N3:31:SER:HB3	2:P3:45:ILE:HG21	1.97	0.46
1:Q3:47:GLU:H	1:Z4:20:SER:HB2	1.80	0.46
1:R3:61:THR:C	1:R3:62:LEU:HD13	2.40	0.46
1:Y3:375:TRP:CZ3	1:BK:367:PRO:HG3	2.50	0.46
1:b3:123:ASN:ND2	1:BD:21:ALA:CB	2.77	0.46
1:I4:156:TYR:HE1	1:I4:360:LEU:HD11	1.81	0.46
1:J4:168:GLU:OE2	1:K4:211:ASN:ND2	2.38	0.46
1:Q4:115:ARG:NH2	1:S4:299:ALA:O	2.47	0.46
1:S4:106:GLU:N	1:KS:109:LEU:HD22	2.31	0.46
1:S4:150:ASN:ND2	2:XE:1:MET:N	2.61	0.46
1:X4:136:ASN:O	1:CR:81:PHE:HZ	1.99	0.46
1:Y4:110:LYS:O	1:Y8:130:LYS:NZ	2.41	0.46
1:f4:370:ASP:OD1	1:C6:361:LYS:CE	2.63	0.46
3:A5:153:ASP:OD1	3:A5:153:ASP:C	2.59	0.46
4:B5:6:MET:HE3	5:FI:38:TYR:CE2	2.45	0.46
5:D5:69:GLU:OE2	5:D5:73:ARG:NH2	2.46	0.46
5:E5:140:ASP:HB3	5:C5:139:LYS:HZ3	1.74	0.46
1:I6:136:ASN:O	1:YR:81:PHE:HZ	1.99	0.46
1:J6:61:THR:C	1:J6:62:LEU:HD13	2.40	0.46
1:J6:99:MET:HE1	1:IR:368:GLU:O	2.14	0.46
1:Q6:98:ASN:HD22	1:Q6:99:MET:N	2.12	0.46
1:T6:265:ASP:OD1	1:T6:265:ASP:N	2.48	0.46
1:Z6:85:TYR:HE2	1:KE:46:PHE:CD1	2.31	0.46
1:Z6:367:PRO:O	1:b6:377:HIS:NE2	2.38	0.46
1:b6:325:LYS:NZ	1:b6:325:LYS:CB	2.73	0.46
1:g6:46:PHE:CD1	1:BE:85:TYR:HE2	2.31	0.46
2:k6:40:SER:CB	1:C8:262:ALA:O	2.64	0.46
1:C7:46:PHE:CE1	1:hR:85:TYR:CE2	3.03	0.46
1:C7:143:GLN:O	1:LK:82:ILE:HG23	2.15	0.46
2:F7:31:SER:HB3	2:H7:45:ILE:HG21	1.97	0.46
1:I7:136:ASN:O	1:gR:81:PHE:HZ	1.99	0.46
1:I7:259:PHE:CE1	1:cQ:259:PHE:CD1	2.98	0.46
1:J7:64:ILE:CD1	1:K7:88:GLU:CG	2.93	0.46
1:L7:152:ALA:HB1	2:M7:8:ARG:HH22	1.80	0.46
1:Q7:47:GLU:H	1:aL:20:SER:HB2	1.80	0.46
1:Q7:201:VAL:O	1:Q7:205:ILE:HG13	2.16	0.46
1:R7:362:PRO:HA	1:R7:363:PRO:HD3	1.83	0.46
1:S7:150:ASN:ND2	2:VL:1:MET:N	2.61	0.46
1:T7:71:ARG:HD3	1:T7:271:ILE:HD12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y7:54:LEU:HG	1:QQ:116:MET:SD	2.56	0.46
1:Z7:90:VAL:HG12	1:IR:64:ILE:HB	1.97	0.46
1:h7:186:THR:HG21	1:h7:214:LYS:HD2	1.98	0.46
1:i7:291:GLN:NE2	1:i7:295:ASP:OD2	2.47	0.46
1:j7:152:ALA:HB1	2:k7:8:ARG:HH22	1.80	0.46
2:n7:2:TYR:HB2	2:HQ:55:GLY:HA3	1.94	0.46
1:B8:22:LEU:HD11	1:AE:49:PHE:HD1	1.81	0.46
1:I8:156:TYR:HE1	1:I8:360:LEU:HD11	1.81	0.46
1:I8:201:VAL:O	1:I8:205:ILE:HG13	2.16	0.46
1:I8:370:ASP:OD1	1:IR:361:LYS:CE	2.63	0.46
1:Q8:96:PRO:HD2	1:S8:166:LEU:HG	1.97	0.46
1:R8:259:PHE:HD1	1:S8:259:PHE:CE2	2.32	0.46
1:g8:31:LYS:HE2	1:KS:314:GLY:CA	2.45	0.46
1:g8:58:ILE:HD13	1:BS:55:PHE:HB3	1.98	0.46
1:g8:143:GLN:O	1:KS:82:ILE:HG23	2.15	0.46
1:j8:71:ARG:HD3	1:j8:271:ILE:HD12	1.96	0.46
2:k8:40:SER:CB	1:IL:262:ALA:O	2.64	0.46
3:A9:9:ASN:CB	5:FA:29:THR:HA	2.46	0.46
5:E9:38:TYR:HB2	5:DA:45:TYR:CE2	2.50	0.46
5:F9:31:PHE:HE2	5:FA:47:ASP:CA	2.13	0.46
3:AA:153:ASP:OD1	3:AA:153:ASP:C	2.59	0.46
5:EA:38:TYR:HB2	5:DC:45:TYR:CE2	2.50	0.46
5:FA:31:PHE:HE2	5:FC:47:ASP:CA	2.13	0.46
5:CA:264:GLY:O	5:NC:228:ARG:NH2	2.48	0.46
5:EB:64:TRP:HE1	4:BM:30:LEU:N	2.00	0.46
3:AC:64:GLN:HG2	1:AP:147:ASP:OD1	2.15	0.46
3:AC:153:ASP:OD1	3:AC:153:ASP:C	2.59	0.46
5:FC:27:ARG:HH11	5:DH:26:GLU:CG	2.27	0.46
1:AD:70:ASN:O	1:AD:72:PHE:N	2.49	0.46
1:BD:98:ASN:HD22	1:KS:30:SER:CB	2.23	0.46
2:FD:2:TYR:OH	1:KS:157:LYS:CE	2.63	0.46
1:FE:26:ASN:C	1:LP:100:ASP:OD2	2.40	0.46
1:FE:136:ASN:HA	1:CP:81:PHE:CE2	2.50	0.46
1:LE:99:MET:HE1	1:SE:368:GLU:O	2.15	0.46
2:PE:31:SER:HB3	2:RE:45:ILE:HG21	1.97	0.46
1:SE:46:PHE:CE1	1:JQ:85:TYR:CE2	3.04	0.46
1:SE:156:TYR:HE1	1:SE:360:LEU:HD11	1.81	0.46
1:SE:321:VAL:HG22	1:SE:327:PHE:CE2	2.51	0.46
1:TE:61:THR:C	1:TE:62:LEU:HD13	2.40	0.46
1:TE:90:VAL:HG12	1:IQ:64:ILE:HB	1.97	0.46
1:TE:186:THR:HG21	1:TE:214:LYS:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aE:177:ASP:OD2	1:CG:33:TRP:HZ2	1.96	0.46
1:aE:201:VAL:O	1:aE:205:ILE:HG13	2.16	0.46
1:aE:262:ALA:O	2:cL:40:SER:CB	2.64	0.46
1:dE:134:ASN:HA	1:dE:371:GLU:HA	1.97	0.46
3:AF:153:ASP:OD1	3:AF:153:ASP:C	2.59	0.46
1:CG:46:PHE:CE1	1:ZL:85:TYR:CE2	3.03	0.46
1:AG:115:ARG:NH2	1:YL:300:TYR:CA	2.75	0.46
1:IG:156:TYR:HE1	1:IG:360:LEU:HD11	1.81	0.46
1:JG:367:PRO:O	1:LG:377:HIS:NE2	2.38	0.46
1:gG:321:VAL:HG22	1:gG:327:PHE:CE2	2.51	0.46
1:hG:64:ILE:CD1	1:iG:88:GLU:CG	2.93	0.46
3:AI:9:ASN:CB	5:FO:29:THR:HA	2.46	0.46
4:BI:190:GLY:HA2	4:BO:149:LEU:HA	1.98	0.46
1:CJ:242:THR:HG21	1:CJ:246:LEU:HD12	1.97	0.46
1:DJ:375:TRP:CE3	1:LP:368:GLU:N	2.83	0.46
2:FJ:2:TYR:OH	1:LP:157:LYS:CE	2.63	0.46
2:GJ:29:ASN:HB3	2:GJ:32:ILE:HG23	1.97	0.46
2:NJ:32:ILE:O	2:NJ:36:LYS:NZ	2.41	0.46
1:AK:244:ASP:N	1:AK:273:PHE:O	2.45	0.46
1:BK:137:ASP:OD2	1:jR:49:PHE:HB3	2.16	0.46
1:DK:265:ASP:OD2	2:GK:41:TYR:HE1	1.96	0.46
1:CL:172:ARG:HD2	1:CL:276:LEU:HD23	1.97	0.46
1:AL:64:ILE:CD1	1:BL:88:GLU:CG	2.93	0.46
1:JL:64:ILE:CD1	1:KL:88:GLU:CG	2.93	0.46
1:LL:361:LYS:HD3	1:LL:377:HIS:HD2	1.81	0.46
2:NL:31:SER:HB3	2:PL:45:ILE:HG21	1.97	0.46
1:TL:361:LYS:HD3	1:TL:377:HIS:HD2	1.81	0.46
1:YL:96:PRO:HD2	1:aL:166:LEU:HG	1.97	0.46
1:YL:321:VAL:HG22	1:YL:327:PHE:CE2	2.51	0.46
3:AM:153:ASP:OD1	3:AM:153:ASP:C	2.59	0.46
5:DM:45:TYR:CE2	5:EO:38:TYR:HB2	2.50	0.46
5:FM:29:THR:HA	3:AO:9:ASN:CB	2.46	0.46
3:AN:73:ALA:HB1	3:AN:120:LEU:HB3	1.96	0.46
5:CN:320:ILE:O	5:CN:320:ILE:HG23	2.16	0.46
5:ON:320:ILE:O	5:ON:320:ILE:HG23	2.16	0.46
1:AP:298:ARG:HH22	1:AP:306:GLN:HA	1.81	0.46
2:EP:8:ARG:HH11	2:EP:10:MET:H	1.64	0.46
1:LP:92:MET:HE1	1:LP:117:ALA:HB2	1.98	0.46
1:LP:289:GLN:N	1:LP:326:GLU:OE2	2.42	0.46
1:CQ:368:GLU:O	1:cQ:99:MET:HE1	2.14	0.46
1:IQ:98:ASN:HD22	1:IQ:99:MET:N	2.12	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IQ:201:VAL:O	1:IQ:205:ILE:HG13	2.16	0.46
1:bQ:172:ARG:HD2	1:bQ:276:LEU:HD23	1.97	0.46
1:bQ:321:VAL:HG22	1:bQ:327:PHE:CE2	2.51	0.46
1:cQ:64:ILE:CD1	1:dQ:88:GLU:CG	2.93	0.46
1:dQ:362:PRO:HA	1:dQ:363:PRO:HD3	1.79	0.46
1:CR:201:VAL:O	1:CR:205:ILE:HG13	2.16	0.46
1:QR:167:GLU:OE2	1:QR:352:TYR:OH	2.26	0.46
1:aR:259:PHE:O	1:aR:260:GLN:CG	2.62	0.46
1:bR:152:ALA:HB1	2:cR:8:ARG:HH22	1.80	0.46
1:hR:61:THR:C	1:hR:62:LEU:HD13	2.40	0.46
1:C1:46:PHE:CE1	1:A6:85:TYR:CE2	3.04	0.46
1:C1:262:ALA:O	2:b4:40:SER:CB	2.64	0.46
1:A1:207:ASN:HA	1:C6:274:ASP:OD1	2.15	0.46
1:B1:150:ASN:HD21	2:c4:1:MET:H3	1.64	0.46
1:I1:63:LEU:HD13	1:JG:89:TYR:HE2	1.71	0.46
1:I1:64:ILE:HB	1:JG:90:VAL:HG12	1.97	0.46
2:M1:38:GLU:N	2:M1:38:GLU:CD	2.72	0.46
2:M1:40:SER:CB	1:Q8:262:ALA:O	2.64	0.46
1:T1:143:GLN:CA	1:CJ:82:ILE:HG12	2.46	0.46
1:T1:361:LYS:HD3	1:T1:377:HIS:HD2	1.81	0.46
1:T1:368:GLU:OE2	1:CJ:128:LYS:NZ	2.35	0.46
1:X1:46:PHE:CE1	1:J6:85:TYR:CE2	3.03	0.46
1:Y1:64:ILE:CD1	1:Z1:88:GLU:CG	2.93	0.46
1:Z1:362:PRO:HA	1:Z1:363:PRO:HD3	1.79	0.46
2:b1:44:GLN:HB3	2:b1:45:ILE:H	1.63	0.46
1:f1:370:ASP:OD1	1:C3:361:LYS:CE	2.63	0.46
1:g1:64:ILE:CD1	1:h1:88:GLU:CG	2.93	0.46
1:i1:361:LYS:HD3	1:i1:377:HIS:HD2	1.81	0.46
2:k1:31:SER:HB3	2:m1:45:ILE:HG21	1.97	0.46
3:A2:63:ARG:HE	3:A2:285:ARG:HH22	1.62	0.46
3:A2:208:LYS:O	4:BA:250:ILE:CG1	2.57	0.46
4:B2:152:SER:OG	4:BB:187:ILE:HB	2.15	0.46
5:F2:104:ILE:HA	5:F2:107:ASP:HB2	1.98	0.46
1:C3:54:LEU:HG	1:QG:116:MET:SD	2.56	0.46
1:C3:96:PRO:HD2	1:B3:166:LEU:HG	1.97	0.46
1:A3:85:TYR:CE2	1:g7:46:PHE:CE1	3.04	0.46
2:E3:40:SER:CB	1:AE:262:ALA:C	2.89	0.46
2:H3:53:PHE:O	1:g7:62:LEU:CD1	2.62	0.46
1:I3:14:VAL:HG21	1:SL:14:VAL:HG23	1.96	0.46
1:I3:49:PHE:HD1	1:SL:22:LEU:HD11	1.81	0.46
1:I3:81:PHE:CE2	1:I4:139:ARG:CD	2.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:262:ALA:O	2:E8:40:SER:CB	2.64	0.46
1:J3:259:PHE:HD1	1:K3:259:PHE:CE2	2.32	0.46
1:Q3:46:PHE:CE1	1:J8:85:TYR:CE2	3.04	0.46
1:Q3:96:PRO:HD2	1:S3:166:LEU:HG	1.97	0.46
1:S3:22:LEU:HD11	1:CR:49:PHE:HD1	1.81	0.46
1:Y3:315:ALA:HB1	1:BK:29:TYR:HB3	1.98	0.46
1:C4:361:LYS:NZ	1:aE:370:ASP:CG	2.73	0.46
1:C4:372:VAL:HG12	2:fL:11:MET:HE3	1.96	0.46
1:I4:64:ILE:HB	1:A8:90:VAL:HG12	1.97	0.46
1:J4:90:VAL:HG12	1:C8:64:ILE:HB	1.97	0.46
1:L4:145:LEU:HD23	2:M4:16:GLU:HA	1.97	0.46
1:Q4:38:LYS:HE2	1:IL:221:ALA:C	2.40	0.46
1:Q4:116:MET:SD	1:IQ:54:LEU:HG	2.56	0.46
1:T4:33:TRP:CD2	1:BS:174:MET:HB2	2.40	0.46
1:T4:143:GLN:CA	1:BS:82:ILE:HG12	2.46	0.46
1:Y4:61:THR:C	1:Y4:62:LEU:HD13	2.40	0.46
1:Y4:186:THR:HG21	1:Y4:214:LYS:HD2	1.98	0.46
5:F5:29:THR:HA	3:AN:9:ASN:CB	2.46	0.46
5:N5:228:ARG:NH2	5:CN:264:GLY:O	2.48	0.46
1:C6:262:ALA:O	2:cG:40:SER:CB	2.64	0.46
1:D6:361:LYS:HD3	1:D6:377:HIS:HD2	1.81	0.46
2:E6:40:SER:CB	1:bQ:262:ALA:O	2.64	0.46
1:Q6:262:ALA:O	2:ZQ:40:SER:CB	2.64	0.46
1:S6:291:GLN:NE2	1:S6:295:ASP:OD2	2.47	0.46
1:Y6:262:ALA:C	2:MQ:40:SER:CB	2.89	0.46
1:C7:201:VAL:O	1:C7:205:ILE:HG13	2.16	0.46
1:C7:222:SER:OG	1:DP:53:TYR:CE1	2.69	0.46
1:D7:134:ASN:HA	1:D7:371:GLU:HA	1.97	0.46
1:I7:46:PHE:CE1	1:cQ:85:TYR:CE2	3.03	0.46
1:I7:172:ARG:HD2	1:I7:276:LEU:HD23	1.97	0.46
1:I7:370:ASP:CG	1:gR:361:LYS:NZ	2.73	0.46
2:V7:1:MET:H3	1:ME:150:ASN:HD21	1.64	0.46
1:Y7:14:VAL:HG23	1:SQ:14:VAL:HG23	1.97	0.46
1:Y7:47:GLU:H	1:SQ:20:SER:HB2	1.80	0.46
1:g7:156:TYR:HE1	1:g7:360:LEU:HD11	1.81	0.46
1:g7:172:ARG:HD2	1:g7:276:LEU:HD23	1.97	0.46
1:h7:372:VAL:HB	2:m7:11:MET:HB2	1.98	0.46
1:j7:134:ASN:HA	1:j7:371:GLU:HA	1.97	0.46
2:l7:1:MET:N	1:SG:150:ASN:ND2	2.61	0.46
2:H8:2:TYR:HB2	2:XR:55:GLY:HA3	1.94	0.46
1:J8:61:THR:C	1:J8:62:LEU:HD13	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N8:31:SER:HB3	2:P8:45:ILE:HG21	1.97	0.46
1:Q8:116:MET:SD	1:IG:54:LEU:HG	2.56	0.46
1:R8:168:GLU:OE2	1:S8:211:ASN:ND2	2.38	0.46
1:a8:22:LEU:HD11	1:bQ:49:PHE:HD1	1.81	0.46
1:a8:137:ASP:OD2	1:bQ:49:PHE:CB	2.59	0.46
1:g8:367:PRO:CD	1:KS:375:TRP:CH2	2.98	0.46
3:AA:163:GLU:OE2	3:AA:241:LYS:NZ	2.43	0.46
4:BA:192:THR:CB	4:BC:147:THR:HG22	2.43	0.46
5:EA:38:TYR:CB	5:DC:45:TYR:HE2	2.28	0.46
3:AB:114:PHE:CG	2:MD:21:ASN:HB3	1.93	0.46
4:BB:149:LEU:HA	4:BF:190:GLY:HA2	1.98	0.46
4:BB:152:SER:OG	4:BF:187:ILE:HB	2.15	0.46
3:AC:156:ILE:HD12	3:AC:159:HIS:HB3	1.97	0.46
1:AD:170:GLU:HG3	1:KK:32:SER:CB	2.45	0.46
1:BD:162:ASP:HA	1:BD:165:VAL:HG12	1.96	0.46
2:ED:8:ARG:HH11	2:ED:10:MET:H	1.64	0.46
2:GD:53:PHE:HB3	1:KD:62:LEU:HD11	1.98	0.46
1:LD:147:ASP:N	1:LD:147:ASP:OD1	2.46	0.46
2:ND:11:MET:HA	2:ND:15:TYR:HB2	1.98	0.46
1:FE:29:TYR:O	1:CP:315:ALA:HB2	2.13	0.46
1:FE:361:LYS:HD3	1:FE:377:HIS:HD2	1.81	0.46
2:HE:5:ASN:C	1:CP:153:LEU:HD11	2.34	0.46
1:ME:22:LEU:HD11	1:QQ:49:PHE:HD1	1.81	0.46
1:SE:46:PHE:CD1	1:JQ:85:TYR:HE2	2.32	0.46
1:SE:172:ARG:HD2	1:SE:276:LEU:HD23	1.97	0.46
1:TE:372:VAL:HB	2:YE:11:MET:HB2	1.98	0.46
2:ZE:2:TYR:HB2	2:fR:55:GLY:HA3	1.94	0.46
1:aE:116:MET:SD	1:CG:54:LEU:HG	2.56	0.46
1:dE:361:LYS:HD3	1:dE:377:HIS:HD2	1.81	0.46
5:DF:132:ASN:HA	5:DF:135:LYS:HZ2	1.79	0.46
1:CG:62:LEU:CD1	2:fL:53:PHE:O	2.62	0.46
1:CG:259:PHE:CE1	1:ZL:259:PHE:CD1	2.98	0.46
1:CG:262:ALA:C	2:UG:40:SER:CB	2.89	0.46
2:EG:40:SER:CB	1:QR:262:ALA:O	2.64	0.46
1:LG:145:LEU:HD23	2:MG:16:GLU:HA	1.97	0.46
1:ZG:259:PHE:HD1	1:aG:259:PHE:CE2	2.32	0.46
1:hG:186:THR:HG21	1:hG:214:LYS:HD2	1.98	0.46
5:EI:40:THR:CG2	5:DO:45:TYR:OH	2.64	0.46
5:CI:320:ILE:HG23	5:CI:320:ILE:O	2.16	0.46
1:BJ:254:LYS:HB2	1:BJ:254:LYS:HE2	1.75	0.46
1:BJ:351:LYS:O	1:BJ:382:LYS:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:16:LYS:HB2	1:DJ:19:LYS:HE2	1.96	0.46
1:KJ:368:GLU:OE2	1:AP:375:TRP:CD2	2.31	0.46
1:LJ:39:TRP:CB	1:CS:120:LEU:HB2	2.45	0.46
1:BK:4:GLN:N	1:BK:4:GLN:NE2	2.60	0.46
1:CL:262:ALA:O	2:ML:40:SER:CB	2.64	0.46
1:CL:321:VAL:HG22	1:CL:327:PHE:CE2	2.51	0.46
1:IL:64:ILE:HB	1:ZR:90:VAL:HG12	1.97	0.46
1:IL:370:ASP:OD1	1:IQ:361:LYS:CE	2.63	0.46
1:JL:186:THR:HG21	1:JL:214:LYS:HD2	1.98	0.46
1:RL:259:PHE:CD1	1:QR:259:PHE:CE1	2.98	0.46
1:bL:145:LEU:HD23	2:cL:16:GLU:HA	1.98	0.46
1:gL:145:LEU:HD23	2:hL:16:GLU:HA	1.98	0.46
4:BM:149:LEU:HA	4:BO:190:GLY:HA2	1.98	0.46
3:AO:65:ASN:ND2	1:IS:146:ALA:HB3	2.30	0.46
3:AO:73:ALA:HB1	3:AO:120:LEU:HB3	1.96	0.46
3:AO:154:ILE:H	1:IS:144:THR:HA	1.81	0.46
5:FO:104:ILE:HA	5:FO:107:ASP:HB2	1.98	0.46
2:EP:8:ARG:HG3	2:EP:12:GLY:HA3	1.98	0.46
2:GP:29:ASN:HB3	2:GP:32:ILE:HG23	1.97	0.46
1:CQ:98:ASN:HD22	1:CQ:99:MET:N	2.12	0.46
1:AQ:186:THR:HG21	1:AQ:214:LYS:HD2	1.98	0.46
1:BQ:259:PHE:O	1:BQ:260:GLN:CG	2.62	0.46
1:QQ:262:ALA:C	2:MR:40:SER:CB	2.89	0.46
1:RQ:372:VAL:HB	2:WQ:11:MET:HB2	1.98	0.46
1:TQ:152:ALA:HB1	2:UQ:8:ARG:HH22	1.80	0.46
1:cQ:186:THR:HG21	1:cQ:214:LYS:HD2	1.98	0.46
1:CR:156:TYR:HE1	1:CR:360:LEU:HD11	1.81	0.46
1:AR:61:THR:C	1:AR:62:LEU:HD13	2.40	0.46
1:JR:61:THR:C	1:JR:62:LEU:HD13	2.40	0.46
1:SR:291:GLN:NE2	1:SR:295:ASP:OD2	2.47	0.46
1:ZR:186:THR:HG21	1:ZR:214:LYS:HD2	1.98	0.46
1:hR:64:ILE:CD1	1:iR:88:GLU:CG	2.93	0.46
1:AS:218:VAL:HG21	1:AS:229:TYR:HB3	1.97	0.46
7:HS:13:ALA:HB3	1:KS:192:THR:HB	1.98	0.46
1:C1:54:LEU:HG	1:bQ:116:MET:SD	2.56	0.46
1:C1:201:VAL:O	1:C1:205:ILE:HG13	2.16	0.46
1:A1:85:TYR:CE2	1:C6:46:PHE:CE1	3.04	0.46
1:B1:22:LEU:HD11	1:Y8:49:PHE:HD1	1.81	0.46
2:E1:40:SER:CB	1:gG:262:ALA:O	2.64	0.46
2:F1:31:SER:HB3	2:H1:45:ILE:HG21	1.97	0.46
2:H1:22:LYS:HG2	1:C6:360:LEU:HD22	1.91	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:46:PHE:CE1	1:JG:85:TYR:CE2	3.04	0.46
1:I1:49:PHE:CB	1:UE:137:ASP:OD2	2.59	0.46
1:I1:201:VAL:O	1:I1:205:ILE:HG13	2.16	0.46
1:J1:90:VAL:HG12	1:IG:64:ILE:HB	1.97	0.46
1:Q1:54:LEU:HG	1:IG:116:MET:SD	2.56	0.46
1:Q1:139:ARG:HB2	1:IG:81:PHE:CE2	2.51	0.46
1:Q1:156:TYR:HE1	1:Q1:360:LEU:HD11	1.81	0.46
1:Q1:300:TYR:CA	1:R6:115:ARG:NH2	2.75	0.46
1:S1:22:LEU:HD11	1:Q8:49:PHE:HD1	1.81	0.46
1:X1:80:ASP:OD2	1:IR:145:LEU:CG	2.62	0.46
1:X1:262:ALA:C	2:c7:40:SER:CB	2.89	0.46
1:f1:62:LEU:CD1	2:HQ:53:PHE:O	2.62	0.46
1:f1:64:ILE:HB	1:AQ:90:VAL:HG12	1.97	0.46
2:j1:40:SER:CB	1:I7:262:ALA:O	2.64	0.46
3:A2:37:GLU:HG3	3:A9:150:TYR:CD2	2.36	0.46
3:A2:153:ASP:OD1	3:A2:153:ASP:C	2.59	0.46
4:B2:149:LEU:HA	4:BB:190:GLY:HA2	1.98	0.46
5:E2:40:THR:OG1	3:AB:11:GLU:O	2.30	0.46
1:C3:136:ASN:O	1:QG:81:PHE:HZ	1.99	0.46
1:A3:186:THR:HG21	1:A3:214:LYS:HD2	1.98	0.46
1:I3:62:LEU:CD1	2:X8:53:PHE:O	2.62	0.46
1:I3:96:PRO:HD2	1:K3:166:LEU:HG	1.97	0.46
1:J3:85:TYR:CE2	1:Q8:46:PHE:CE1	3.04	0.46
1:K3:20:SER:HB2	1:I4:47:GLU:H	1.80	0.46
1:Q3:81:PHE:CE2	1:CR:139:ARG:HB2	2.51	0.46
1:Q3:116:MET:SD	1:CR:54:LEU:HG	2.56	0.46
1:Q3:139:ARG:HB2	1:X4:81:PHE:CE2	2.51	0.46
1:R3:85:TYR:CE2	1:I8:46:PHE:CE1	3.03	0.46
1:R3:115:ARG:NH2	1:I8:300:TYR:CA	2.75	0.46
1:T3:361:LYS:HE2	1:T3:377:HIS:HB2	1.98	0.46
1:b3:82:ILE:CD1	1:BD:145:LEU:CD2	2.86	0.46
1:b3:375:TRP:CZ3	1:BD:367:PRO:HG3	2.50	0.46
1:I4:81:PHE:CE2	1:QL:139:ARG:HB2	2.51	0.46
1:I4:116:MET:SD	1:QL:54:LEU:HG	2.56	0.46
1:Q4:136:ASN:O	1:IL:81:PHE:HZ	1.99	0.46
1:T4:27:HIS:CD2	1:BS:312:PRO:HG3	2.50	0.46
1:T4:361:LYS:HE2	1:T4:377:HIS:HB2	1.98	0.46
1:X4:14:VAL:HG21	1:BR:14:VAL:HG23	1.96	0.46
1:h4:22:LEU:HD11	1:gG:49:PHE:HD1	1.81	0.46
1:i4:361:LYS:HE2	1:i4:377:HIS:HB2	1.98	0.46
2:l4:2:TYR:CA	1:DK:150:ASN:OD1	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:63:ARG:HE	3:A5:285:ARG:HH22	1.62	0.46
3:A5:150:TYR:CD2	3:AN:37:GLU:HG3	2.36	0.46
3:A5:154:ILE:O	3:A5:154:ILE:CG2	2.63	0.46
5:E5:64:TRP:HE1	4:BH:29:LYS:CA	2.25	0.46
5:C5:265:LEU:CD1	5:NI:231:ASN:CA	2.74	0.46
1:C6:201:VAL:O	1:C6:205:ILE:HG13	2.16	0.46
2:F6:31:SER:HB3	2:H6:45:ILE:HG21	1.97	0.46
1:J6:64:ILE:CD1	1:K6:88:GLU:CG	2.93	0.46
1:L6:325:LYS:NZ	1:L6:325:LYS:CB	2.73	0.46
2:M6:40:SER:CB	1:I8:262:ALA:O	2.64	0.46
1:Q6:201:VAL:O	1:Q6:205:ILE:HG13	2.16	0.46
1:Q6:222:SER:OG	1:CS:53:TYR:CE1	2.69	0.46
1:T6:145:LEU:HD23	2:U6:16:GLU:HA	1.98	0.46
1:b6:361:LYS:HD3	1:b6:377:HIS:HD2	1.81	0.46
2:c6:40:SER:CB	1:Y7:262:ALA:C	2.89	0.46
1:g6:201:VAL:O	1:g6:205:ILE:HG13	2.16	0.46
1:C7:32:SER:O	1:LK:382:LYS:CE	2.54	0.46
1:C7:262:ALA:C	2:EE:40:SER:CB	2.89	0.46
1:A7:64:ILE:CD1	1:B7:88:GLU:CG	2.93	0.46
1:A7:85:TYR:CE2	1:gR:46:PHE:CE1	3.03	0.46
1:I7:321:VAL:HG22	1:I7:327:PHE:CE2	2.51	0.46
1:J7:186:THR:HG21	1:J7:214:LYS:HD2	1.98	0.46
2:N7:31:SER:HB3	2:P7:45:ILE:HG21	1.97	0.46
1:Q7:158:LYS:HE2	1:RQ:91:ILE:O	2.15	0.46
1:Q7:372:VAL:HG12	2:HG:11:MET:HE3	1.96	0.46
1:T7:145:LEU:HD23	2:U7:16:GLU:HA	1.98	0.46
1:Y7:81:PHE:CE2	1:KE:139:ARG:HB2	2.51	0.46
1:g7:116:MET:SD	1:C8:54:LEU:HG	2.56	0.46
1:h7:61:THR:C	1:h7:62:LEU:HD13	2.40	0.46
1:i7:137:ASP:OD2	1:C8:49:PHE:CB	2.59	0.46
2:k7:21:ASN:O	2:k7:23:ARG:NH1	2.48	0.46
1:C8:201:VAL:O	1:C8:205:ILE:HG13	2.16	0.46
1:I8:49:PHE:HD1	1:KR:22:LEU:HD11	1.81	0.46
1:J8:64:ILE:CD1	1:K8:88:GLU:CG	2.93	0.46
1:R8:61:THR:C	1:R8:62:LEU:HD13	2.40	0.46
1:b8:361:LYS:HE2	1:b8:377:HIS:HB2	1.98	0.46
1:i8:372:VAL:CG1	2:ED:11:MET:HB2	2.46	0.46
3:A9:58:LEU:HD11	3:A9:143:MET:HE1	1.96	0.46
4:B9:3:ARG:CB	3:AB:194:ASN:HD22	2.12	0.46
4:B9:29:LYS:CA	5:EC:64:TRP:HE1	2.25	0.46
3:AB:114:PHE:CD1	2:MD:21:ASN:HB3	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FB:38:TYR:OH	4:BF:10:ASP:OD2	2.25	0.46
5:DC:132:ASN:HA	5:DC:135:LYS:HZ2	1.80	0.46
2:ND:20:LEU:HB2	2:ND:23:ARG:NH1	2.31	0.46
1:DE:123:ASN:ND2	1:BP:21:ALA:CB	2.77	0.46
1:BE:98:ASN:HD22	1:DJ:30:SER:HB3	1.81	0.46
1:CE:108:MET:CG	1:CP:366:ASN:OD1	2.32	0.46
2:JE:2:TYR:CA	1:DJ:150:ASN:OD1	2.64	0.46
1:KE:201:VAL:O	1:KE:205:ILE:HG13	2.16	0.46
1:VE:134:ASN:HA	1:VE:371:GLU:HA	1.97	0.46
1:VE:152:ALA:HB1	2:WE:8:ARG:HH22	1.80	0.46
2:XE:31:SER:HB3	2:ZE:45:ILE:HG21	1.97	0.46
2:fE:31:SER:HB3	2:hE:45:ILE:HG21	1.97	0.46
4:BF:149:LEU:HA	4:BM:190:GLY:HA2	1.98	0.46
5:FF:29:THR:HA	3:AM:9:ASN:CB	2.46	0.46
1:TG:361:LYS:HE2	1:TG:377:HIS:HB2	1.98	0.46
1:ZG:186:THR:HG21	1:ZG:214:LYS:HD2	1.98	0.46
1:gG:201:VAL:O	1:gG:205:ILE:HG13	2.16	0.46
1:hG:85:TYR:CE2	1:CL:46:PHE:CE1	3.03	0.46
5:EI:38:TYR:HB2	5:DO:45:TYR:CE2	2.50	0.46
5:FI:104:ILE:HA	5:FI:107:ASP:HB2	1.98	0.46
1:AJ:82:ILE:CG1	1:JS:144:THR:H	2.04	0.46
1:CJ:197:LEU:HD11	1:CJ:246:LEU:HD21	1.98	0.46
1:DJ:94:THR:O	1:KJ:129:GLN:NE2	2.49	0.46
1:KJ:48:THR:CA	1:LP:22:LEU:CD2	2.81	0.46
1:KJ:263:GLY:O	2:MJ:39:ASP:N	2.48	0.46
1:LJ:139:ARG:O	1:CS:82:ILE:HA	2.15	0.46
1:LK:92:MET:HE1	1:LK:117:ALA:HB2	1.98	0.46
1:DL:152:ALA:HB1	2:EL:8:ARG:HH22	1.80	0.46
1:QL:64:ILE:HB	1:RR:90:VAL:HG12	1.97	0.46
1:QL:156:TYR:HE1	1:QL:360:LEU:HD11	1.81	0.46
1:YL:14:VAL:HG23	1:SR:14:VAL:HG23	1.97	0.46
1:bL:152:ALA:HB1	2:cL:8:ARG:HH22	1.80	0.46
5:CM:320:ILE:O	5:CM:320:ILE:HG23	2.16	0.46
4:BO:141:THR:HG1	4:BO:196:SER:HG	1.62	0.46
5:OO:320:ILE:HG23	5:OO:320:ILE:O	2.16	0.46
1:BP:351:LYS:O	1:BP:382:LYS:HA	2.15	0.46
2:GP:39:ASP:O	2:GP:40:SER:OG	2.31	0.46
7:IP:13:ALA:HB3	1:LP:192:THR:HB	1.98	0.46
1:JQ:186:THR:HG21	1:JQ:214:LYS:HD2	1.98	0.46
1:TQ:145:LEU:HD23	2:UQ:16:GLU:HA	1.98	0.46
1:TQ:361:LYS:HD3	1:TQ:377:HIS:HD2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YQ:145:LEU:HD23	2:ZQ:16:GLU:HA	1.98	0.46
2:aQ:11:MET:HG2	1:AS:133:LEU:HG	1.97	0.46
1:bQ:201:VAL:O	1:bQ:205:ILE:HG13	2.16	0.46
1:eQ:361:LYS:HE2	1:eQ:377:HIS:HB2	1.98	0.46
2:fQ:40:SER:CB	1:gR:262:ALA:C	2.89	0.46
1:LR:82:ILE:HD13	1:LR:82:ILE:HA	1.85	0.46
1:QR:98:ASN:HD22	1:QR:99:MET:N	2.12	0.46
1:QR:201:VAL:O	1:QR:205:ILE:HG13	2.16	0.46
1:TR:265:ASP:OD1	1:TR:265:ASP:N	2.48	0.46
2:VR:31:SER:HB3	2:XR:45:ILE:HG21	1.97	0.46
1:YR:98:ASN:HD22	1:YR:99:MET:N	2.12	0.46
1:ZR:61:THR:C	1:ZR:62:LEU:HD13	2.40	0.46
1:hR:186:THR:HG21	1:hR:214:LYS:HD2	1.98	0.46
1:jR:361:LYS:HD3	1:jR:377:HIS:HD2	1.81	0.46
1:BS:242:THR:HG21	1:BS:246:LEU:HD12	1.97	0.46
1:CS:13:LEU:HD11	1:CS:39:TRP:HA	1.98	0.46
1:CS:49:PHE:O	1:CS:52:LYS:NZ	2.49	0.46
1:JS:237:ASP:N	1:JS:237:ASP:OD1	2.48	0.46
1:KS:173:ALA:HB2	1:KS:279:VAL:HG11	1.98	0.46
2:MS:11:MET:HA	2:MS:15:TYR:HB2	1.98	0.46
1:D1:361:LYS:HD3	1:D1:377:HIS:HD2	1.81	0.46
1:I1:116:MET:SD	1:Y6:54:LEU:HG	2.56	0.46
1:Q1:64:ILE:HB	1:R6:90:VAL:HG12	1.97	0.46
1:Q1:201:VAL:O	1:Q1:205:ILE:HG13	2.16	0.46
1:R1:174:MET:CG	1:CJ:33:TRP:CG	2.97	0.46
1:T1:134:ASN:HA	1:T1:371:GLU:HA	1.97	0.46
1:T1:179:SER:OG	1:T1:341:TYR:OH	2.29	0.46
1:Y1:85:TYR:CE2	1:I6:46:PHE:CE1	3.03	0.46
1:Y1:99:MET:HE1	1:CL:368:GLU:O	2.14	0.46
2:b1:40:SER:CB	1:YR:262:ALA:C	2.89	0.46
1:f1:81:PHE:CE2	1:QG:139:ARG:HB2	2.51	0.46
1:f1:81:PHE:HZ	1:QG:136:ASN:O	1.99	0.46
1:f1:139:ARG:HB2	1:C3:81:PHE:CE2	2.51	0.46
1:f1:357:LYS:CD	2:HQ:17:ASP:HB2	2.46	0.46
2:j1:40:SER:CB	1:I7:262:ALA:C	2.89	0.46
5:D2:130:GLN:OE1	5:F2:128:MET:SD	2.74	0.46
5:C2:320:ILE:HG23	5:C2:320:ILE:O	2.16	0.46
1:C3:39:TRP:CE3	1:SG:45:MET:HE1	2.51	0.46
2:E3:40:SER:CB	1:AE:262:ALA:O	2.64	0.46
1:I3:14:VAL:HG23	1:SL:14:VAL:HG23	1.97	0.46
1:I3:46:PHE:CE1	1:R8:85:TYR:CE2	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J3:61:THR:C	1:J3:62:LEU:HD13	2.40	0.46
1:Q3:54:LEU:HG	1:X4:116:MET:SD	2.56	0.46
1:R3:186:THR:HG21	1:R3:214:LYS:HD2	1.98	0.46
1:b3:82:ILE:HD13	1:b3:82:ILE:HA	1.85	0.46
1:C4:81:PHE:CE2	1:aE:139:ARG:HB2	2.51	0.46
1:I4:274:ASP:OD1	1:A8:207:ASN:HA	2.15	0.46
1:J4:85:TYR:CE2	1:C8:46:PHE:CE1	3.04	0.46
1:Q4:81:PHE:HZ	1:IQ:136:ASN:O	1.99	0.46
1:Q4:139:ARG:HB2	1:IL:81:PHE:CE2	2.51	0.46
1:Q4:321:VAL:HG22	1:Q4:327:PHE:CE2	2.51	0.46
1:R4:168:GLU:OE2	1:S4:211:ASN:ND2	2.38	0.46
1:R4:222:SER:C	1:BS:38:LYS:CE	2.77	0.46
1:R4:222:SER:CB	1:BS:38:LYS:C	2.88	0.46
1:S4:22:LEU:HD11	1:IQ:49:PHE:HD1	1.81	0.46
1:S4:45:MET:HE1	1:IQ:39:TRP:CE3	2.51	0.46
1:X4:49:PHE:HD1	1:BR:22:LEU:HD11	1.81	0.46
1:Y4:259:PHE:HD1	1:Z4:259:PHE:CE2	2.32	0.46
1:f4:49:PHE:HD1	1:B6:22:LEU:HD11	1.81	0.46
1:f4:221:ALA:C	1:gG:38:LYS:HE2	2.40	0.46
4:B5:33:TYR:CE1	5:EO:57:GLU:HG2	2.49	0.46
5:D5:45:TYR:HE2	5:EN:38:TYR:CB	2.28	0.46
5:N5:320:ILE:O	5:N5:320:ILE:HG23	2.16	0.46
1:C6:54:LEU:HG	1:gG:116:MET:SD	2.56	0.46
1:I6:262:ALA:C	2:kG:40:SER:CB	2.89	0.46
1:I6:361:LYS:NZ	1:CL:370:ASP:CG	2.73	0.46
1:J6:186:THR:HG21	1:J6:214:LYS:HD2	1.98	0.46
1:L6:361:LYS:HD3	1:L6:377:HIS:HD2	1.81	0.46
1:Y6:64:ILE:HB	1:LE:90:VAL:HG12	1.97	0.46
1:Y6:262:ALA:O	2:MQ:40:SER:CB	2.64	0.46
1:b6:152:ALA:HB1	2:c6:8:ARG:HH22	1.80	0.46
2:d6:1:MET:H3	1:a7:150:ASN:ND2	2.13	0.46
1:g6:58:ILE:HD13	1:CP:55:PHE:HB3	1.98	0.46
1:g6:64:ILE:HB	1:BE:90:VAL:HG12	1.97	0.46
1:g6:111:ARG:HG3	1:CJ:105:GLU:CG	2.46	0.46
1:i6:31:LYS:HB2	1:BJ:314:GLY:O	2.14	0.46
1:B7:57:LYS:HD2	1:DP:143:GLN:HE21	1.00	0.46
1:B7:362:PRO:HA	1:B7:363:PRO:HD3	1.79	0.46
2:E7:40:SER:CB	1:CQ:262:ALA:C	2.89	0.46
1:I7:81:PHE:CE2	1:CQ:139:ARG:HB2	2.51	0.46
1:Q7:54:LEU:HG	1:YL:116:MET:SD	2.56	0.46
1:Q7:116:MET:SD	1:QR:54:LEU:HG	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q7:221:ALA:C	1:QR:38:LYS:HE2	2.40	0.46
1:Q7:262:ALA:O	2:UL:40:SER:CB	2.64	0.46
1:R7:85:TYR:CE2	1:QQ:46:PHE:CE1	3.03	0.46
1:R7:186:THR:HG21	1:R7:214:LYS:HD2	1.98	0.46
1:R7:367:PRO:O	1:T7:377:HIS:NE2	2.38	0.46
1:R7:372:VAL:HB	2:W7:11:MET:HB2	1.98	0.46
1:S7:22:LEU:HD11	1:QR:49:PHE:HD1	1.81	0.46
1:T7:265:ASP:OD1	1:T7:265:ASP:N	2.48	0.46
2:c7:38:GLU:N	2:c7:38:GLU:CD	2.72	0.46
1:g7:47:GLU:H	1:CE:20:SER:HB2	1.80	0.46
1:C8:116:MET:SD	1:AE:54:LEU:HG	2.56	0.46
1:B8:14:VAL:HG23	1:AE:14:VAL:HG21	1.96	0.46
2:E8:38:GLU:N	2:E8:38:GLU:CD	2.72	0.46
1:I8:54:LEU:HG	1:IR:116:MET:SD	2.56	0.46
1:L8:361:LYS:HD3	1:L8:377:HIS:HD2	1.81	0.46
1:i8:31:LYS:HB2	1:BD:314:GLY:O	2.14	0.46
3:AA:9:ASN:CB	5:FC:29:THR:HA	2.46	0.46
4:BA:190:GLY:HA2	4:BC:149:LEU:HA	1.98	0.46
5:EA:40:THR:CG2	5:DC:45:TYR:OH	2.64	0.46
3:AB:150:TYR:O	1:AD:148:ALA:HB3	2.16	0.46
5:NB:320:ILE:HG23	5:NB:320:ILE:O	2.16	0.46
4:BC:190:GLY:HA2	4:BH:149:LEU:HA	1.98	0.46
5:EC:38:TYR:CB	5:DH:45:TYR:HE2	2.28	0.46
5:CC:266:THR:CA	5:NH:230:SER:C	2.88	0.46
1:AD:63:LEU:HD23	1:KD:89:TYR:CZ	2.50	0.46
1:BD:4:GLN:N	1:BD:4:GLN:NE2	2.60	0.46
1:DD:302:ASP:HB3	1:KS:29:TYR:OH	1.99	0.46
1:LD:375:TRP:CH2	1:YG:367:PRO:CD	2.98	0.46
2:GE:2:TYR:HE2	1:BP:157:LYS:HE3	1.78	0.46
1:AE:156:TYR:HE1	1:AE:360:LEU:HD11	1.81	0.46
1:KE:116:MET:SD	1:QQ:54:LEU:HG	2.56	0.46
1:KE:156:TYR:HE1	1:KE:360:LEU:HD11	1.81	0.46
1:LE:367:PRO:O	1:NE:377:HIS:NE2	2.38	0.46
1:CG:201:VAL:O	1:CG:205:ILE:HG13	2.16	0.46
1:BG:150:ASN:ND2	2:VG:1:MET:N	2.61	0.46
1:DG:145:LEU:HD23	2:EG:16:GLU:HA	1.98	0.46
1:ZG:61:THR:C	1:ZG:62:LEU:HD13	2.40	0.46
1:jG:145:LEU:HD23	2:kG:16:GLU:HA	1.98	0.46
1:jG:361:LYS:HE2	1:jG:377:HIS:HB2	1.98	0.46
5:EH:40:THR:CG2	5:DN:45:TYR:OH	2.64	0.46
3:AI:11:GLU:O	5:EO:40:THR:OG1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BI:30:LEU:HB3	5:EM:64:TRP:CG	2.50	0.46
1:CJ:250:LEU:HA	1:CJ:254:LYS:HZ3	1.80	0.46
1:KJ:136:ASN:OD1	1:KJ:137:ASP:N	2.47	0.46
1:LJ:22:LEU:CD2	1:JS:47:GLU:HB2	2.29	0.46
1:CK:82:ILE:HG12	1:jR:143:GLN:CA	2.46	0.46
1:KK:109:LEU:HD23	1:DP:109:LEU:HD22	1.98	0.46
1:LK:137:ASP:OD2	1:KP:50:VAL:HG21	2.02	0.46
1:AL:186:THR:HG21	1:AL:214:LYS:HD2	1.98	0.46
2:FL:31:SER:HB3	2:HL:45:ILE:HG21	1.97	0.46
1:IL:54:LEU:HG	1:IQ:116:MET:SD	2.56	0.46
1:IL:139:ARG:HB2	1:IQ:81:PHE:CE2	2.51	0.46
1:QL:201:VAL:O	1:QL:205:ILE:HG13	2.16	0.46
1:QL:300:TYR:CA	1:RR:115:ARG:NH2	2.75	0.46
1:TL:134:ASN:HA	1:TL:371:GLU:HA	1.97	0.46
1:TL:361:LYS:HE2	1:TL:377:HIS:HB2	1.98	0.46
1:YL:14:VAL:HG23	1:SR:14:VAL:HG21	1.94	0.46
1:YL:47:GLU:H	1:SR:20:SER:HB2	1.80	0.46
1:aL:150:ASN:HD21	2:VQ:1:MET:H3	1.61	0.46
5:DM:26:GLU:CG	5:FO:27:ARG:HH11	2.27	0.46
3:AO:83:TYR:CB	2:LS:52:SER:O	2.64	0.46
3:AO:183:ILE:HD11	3:AO:222:LEU:HD23	1.97	0.46
1:DP:49:PHE:O	1:DP:52:LYS:NZ	2.49	0.46
2:NP:45:ILE:HG22	2:NP:46:HIS:CD2	2.50	0.46
1:AQ:61:THR:C	1:AQ:62:LEU:HD13	2.40	0.46
1:IQ:96:PRO:HD2	1:KQ:166:LEU:HG	1.97	0.46
1:JQ:61:THR:C	1:JQ:62:LEU:HD13	2.40	0.46
1:QQ:98:ASN:HD22	1:QQ:99:MET:N	2.12	0.46
1:cQ:61:THR:C	1:cQ:62:LEU:HD13	2.40	0.46
2:fQ:45:ILE:CG1	2:fQ:46:HIS:H	2.23	0.46
1:AR:186:THR:HG21	1:AR:214:LYS:HD2	1.98	0.46
1:LR:361:LYS:HE2	1:LR:377:HIS:HB2	1.98	0.46
1:TR:145:LEU:HD23	2:UR:16:GLU:HA	1.98	0.46
1:TR:361:LYS:HE2	1:TR:377:HIS:HB2	1.98	0.46
1:AS:71:ARG:HH22	1:AS:272:SER:H	1.62	0.46
2:DS:8:ARG:HG3	2:DS:12:GLY:HA3	1.98	0.46
1:IS:70:ASN:O	1:IS:72:PHE:N	2.49	0.46
1:I1:54:LEU:HG	1:SE:116:MET:SD	2.56	0.46
1:I1:81:PHE:CE2	1:Y6:139:ARG:HB2	2.51	0.46
1:J1:207:ASN:HA	1:IG:274:ASP:OD1	2.15	0.46
1:K1:28:ASP:OD1	1:K1:28:ASP:N	2.43	0.46
1:Q1:116:MET:SD	1:Q8:54:LEU:HG	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R1:259:PHE:CD1	1:Q6:259:PHE:CE1	2.98	0.46
1:S1:14:VAL:HG23	1:Q8:14:VAL:HG21	1.96	0.46
1:S1:14:VAL:HG23	1:Q8:14:VAL:HG23	1.97	0.46
1:T1:143:GLN:C	1:CJ:82:ILE:CD1	2.88	0.46
1:T1:304:GLN:NE2	1:gL:98:ASN:O	2.48	0.46
1:T1:361:LYS:HE2	1:T1:377:HIS:HB2	1.98	0.46
1:f1:54:LEU:HG	1:C3:116:MET:SD	2.56	0.46
1:f1:262:ALA:C	2:E4:40:SER:CB	2.89	0.46
5:O2:320:ILE:O	5:O2:320:ILE:HG23	2.16	0.46
1:C3:49:PHE:HD1	1:SG:22:LEU:HD11	1.81	0.46
2:P3:53:PHE:O	1:Q8:62:LEU:CD1	2.62	0.46
1:Q3:262:ALA:O	2:eE:40:SER:CB	2.64	0.46
1:R3:110:LYS:O	1:I8:130:LYS:NZ	2.41	0.46
1:R3:222:SER:OG	1:KR:39:TRP:O	2.33	0.46
1:Y3:361:LYS:HD3	1:Y3:377:HIS:HD2	1.81	0.46
1:A4:68:LEU:HD12	1:A4:161:SER:HB3	1.98	0.46
1:I4:46:PHE:CE1	1:A8:85:TYR:CE2	3.03	0.46
1:I4:259:PHE:CE1	1:A8:259:PHE:CD1	2.98	0.46
2:M4:38:GLU:N	2:M4:38:GLU:CD	2.72	0.46
1:Q4:54:LEU:HG	1:IL:116:MET:SD	2.56	0.46
1:T4:27:HIS:HB3	1:BS:312:PRO:CD	2.46	0.46
1:X4:262:ALA:C	2:M8:40:SER:CB	2.89	0.46
1:a4:361:LYS:HE2	1:a4:377:HIS:HB2	1.98	0.46
1:f4:14:VAL:HG21	1:B6:14:VAL:HG23	1.96	0.46
1:f4:262:ALA:C	2:EL:40:SER:CB	2.89	0.46
1:f4:262:ALA:O	2:EL:40:SER:CB	2.64	0.46
5:E5:38:TYR:CB	5:DI:45:TYR:HE2	2.28	0.46
5:C5:266:THR:CA	5:NI:230:SER:C	2.88	0.46
1:A6:186:THR:HG21	1:A6:214:LYS:HD2	1.98	0.46
1:K6:22:LEU:HD11	1:CL:49:PHE:HD1	1.81	0.46
1:T6:361:LYS:HE2	1:T6:377:HIS:HB2	1.98	0.46
2:V6:31:SER:HB3	2:X6:45:ILE:HG21	1.97	0.46
1:Y6:156:TYR:HE1	1:Y6:360:LEU:HD11	1.81	0.46
1:Y6:201:VAL:O	1:Y6:205:ILE:HG13	2.16	0.46
1:Z6:41:ASN:ND2	1:Z6:54:LEU:O	2.46	0.46
1:Z6:90:VAL:HG12	1:KE:64:ILE:HB	1.97	0.46
1:a6:150:ASN:ND2	2:NQ:1:MET:N	2.61	0.46
2:f6:17:ASP:HB2	1:KE:357:LYS:CD	2.46	0.46
1:g6:156:TYR:HE1	1:g6:360:LEU:HD11	1.81	0.46
1:g6:357:LYS:CD	2:JE:17:ASP:HB2	2.46	0.46
1:h6:61:THR:C	1:h6:62:LEU:HD13	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h6:168:GLU:OE2	1:i6:211:ASN:ND2	2.38	0.46
1:C7:46:PHE:CD1	1:hR:85:TYR:HE2	2.31	0.46
1:A7:99:MET:HE1	1:I7:368:GLU:O	2.14	0.46
1:I7:64:ILE:HB	1:cQ:90:VAL:HG12	1.97	0.46
1:I7:357:LYS:CD	2:iQ:17:ASP:HB2	2.46	0.46
2:M7:40:SER:CB	1:Y8:262:ALA:C	2.89	0.46
1:Q7:172:ARG:HD2	1:Q7:276:LEU:HD23	1.97	0.46
1:T7:98:ASN:O	1:TL:304:GLN:NE2	2.48	0.46
1:T7:134:ASN:HA	1:T7:371:GLU:HA	1.97	0.46
2:U7:40:SER:CB	1:KE:262:ALA:C	2.89	0.46
1:Z7:85:TYR:CE2	1:IR:46:PHE:CE1	3.04	0.46
1:Z7:115:ARG:NH2	1:IR:300:TYR:CA	2.75	0.46
2:c7:44:GLN:HB3	2:c7:45:ILE:H	1.63	0.46
2:l7:31:SER:HB3	2:n7:45:ILE:HG21	1.97	0.46
1:C8:81:PHE:CE2	1:AE:139:ARG:HB2	2.51	0.46
1:B8:28:ASP:N	1:B8:28:ASP:OD1	2.43	0.46
1:J8:68:LEU:HD12	1:J8:161:SER:HB3	1.99	0.46
1:J8:186:THR:HG21	1:J8:214:LYS:HD2	1.98	0.46
1:Q8:81:PHE:CE2	1:IG:139:ARG:CD	2.71	0.46
1:S8:20:SER:HB2	1:IG:47:GLU:H	1.80	0.46
2:c8:21:ASN:O	2:c8:23:ARG:NH1	2.48	0.46
1:h8:68:LEU:HD12	1:h8:161:SER:HB3	1.98	0.46
1:h8:168:GLU:OE2	1:i8:211:ASN:ND2	2.38	0.46
1:h8:372:VAL:HB	2:m8:11:MET:HB2	1.98	0.46
2:k8:40:SER:CB	1:IL:262:ALA:C	2.89	0.46
5:E9:40:THR:CG2	5:DA:45:TYR:OH	2.64	0.46
5:N9:320:ILE:HG23	5:N9:320:ILE:O	2.16	0.46
5:FA:31:PHE:CZ	5:FC:47:ASP:N	2.68	0.46
3:AC:104:GLN:N	1:KP:359:MET:HE2	2.31	0.46
1:AD:82:ILE:CD1	1:KK:144:THR:N	2.74	0.46
1:DD:13:LEU:HD11	1:DD:39:TRP:HA	1.97	0.46
1:LD:223:GLY:HA2	1:YG:53:TYR:CG	2.44	0.46
1:AE:201:VAL:O	1:AE:205:ILE:HG13	2.16	0.46
1:BE:382:LYS:CD	1:CP:32:SER:O	2.63	0.46
1:FE:153:LEU:HD21	2:HP:4:GLY:CA	2.31	0.46
2:HE:6:ASN:HA	1:CP:153:LEU:HD12	1.98	0.46
1:LE:61:THR:C	1:LE:62:LEU:HD13	2.40	0.46
1:SE:62:LEU:CD1	2:PQ:53:PHE:O	2.62	0.46
1:aE:46:PHE:CE1	1:AR:85:TYR:CE2	3.03	0.46
1:cE:71:ARG:H	2:cL:26:LEU:HD12	1.82	0.46
3:AF:154:ILE:CG2	3:AF:154:ILE:O	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FF:47:ASP:N	5:FM:31:PHE:CZ	2.68	0.46
1:JG:41:ASN:ND2	1:JG:54:LEU:O	2.46	0.46
1:QG:321:VAL:HG22	1:QG:327:PHE:CE2	2.51	0.46
1:SG:362:PRO:HA	1:SG:363:PRO:HD3	1.80	0.46
1:aG:33:TRP:HB3	1:BK:174:MET:HG3	1.44	0.46
1:hG:61:THR:C	1:hG:62:LEU:HD13	2.40	0.46
5:EI:64:TRP:CG	4:BN:30:LEU:HB3	2.49	0.46
5:EI:64:TRP:HE1	4:BN:30:LEU:N	2.00	0.46
1:DJ:49:PHE:O	1:DJ:52:LYS:NZ	2.49	0.46
1:LJ:362:PRO:HA	1:LJ:363:PRO:HD3	1.83	0.46
1:BK:162:ASP:HA	1:BK:165:VAL:HG12	1.97	0.46
7:IK:13:ALA:HB3	1:LK:192:THR:HB	1.98	0.46
2:NK:55:GLY:HA3	2:FP:2:TYR:HB3	1.84	0.46
1:CL:81:PHE:CE2	1:YR:139:ARG:HB2	2.51	0.46
1:CL:262:ALA:C	2:ML:40:SER:CB	2.89	0.46
1:IL:62:LEU:CD1	2:fR:53:PHE:O	2.62	0.46
1:IL:172:ARG:HD2	1:IL:276:LEU:HD23	1.97	0.46
1:IL:357:LYS:CD	2:fR:17:ASP:HB2	2.46	0.46
1:QL:321:VAL:HG22	1:QL:327:PHE:CE2	2.51	0.46
1:gL:134:ASN:HA	1:gL:371:GLU:HA	1.97	0.46
1:gL:265:ASP:OD1	1:gL:265:ASP:N	2.48	0.46
4:BM:152:SER:OG	4:BO:187:ILE:HB	2.15	0.46
5:DM:132:ASN:HA	5:DM:135:LYS:HZ2	1.79	0.46
5:NM:230:SER:C	5:CO:266:THR:CA	2.88	0.46
5:NM:320:ILE:HG23	5:NM:320:ILE:O	2.16	0.46
3:AN:63:ARG:HE	3:AN:285:ARG:HH22	1.62	0.46
5:DN:130:GLN:OE1	5:FN:128:MET:SD	2.74	0.46
5:DN:132:ASN:HA	5:DN:135:LYS:HZ2	1.79	0.46
1:DP:369:PHE:CZ	1:hR:104:ASN:O	2.69	0.46
1:JQ:372:VAL:HB	2:OQ:11:MET:HB2	1.98	0.46
1:RQ:61:THR:C	1:RQ:62:LEU:HD13	2.40	0.46
1:RQ:64:ILE:CD1	1:SQ:88:GLU:CG	2.93	0.46
1:RQ:259:PHE:HD1	1:SQ:259:PHE:CE2	2.32	0.46
1:cQ:222:SER:OG	1:iR:39:TRP:O	2.33	0.46
1:eQ:145:LEU:HD23	2:fQ:16:GLU:HA	1.98	0.46
2:fQ:44:GLN:HB3	2:fQ:45:ILE:H	1.63	0.46
1:CR:96:PRO:HD2	1:BR:166:LEU:HG	1.97	0.46
1:CR:172:ARG:HD2	1:CR:276:LEU:HD23	1.97	0.46
1:DR:179:SER:HG	1:DR:341:TYR:HH	1.56	0.46
1:KR:129:GLN:NE2	1:KR:159:LYS:O	2.41	0.46
1:gR:172:ARG:HD2	1:gR:276:LEU:HD23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MS:20:LEU:HB2	2:MS:23:ARG:NH1	2.31	0.46
1:C1:172:ARG:HD2	1:C1:276:LEU:HD23	1.97	0.45
1:A1:186:THR:HG21	1:A1:214:LYS:HD2	1.98	0.45
2:E1:26:LEU:HD12	1:iG:71:ARG:H	1.81	0.45
2:E1:40:SER:CB	1:gG:262:ALA:C	2.89	0.45
1:J1:85:TYR:CE2	1:IG:46:PHE:CE1	3.03	0.45
1:K1:45:MET:HE1	1:Y6:39:TRP:CE3	2.51	0.45
1:Q1:357:LYS:CD	2:X6:17:ASP:HB2	2.46	0.45
1:R1:223:GLY:CA	1:CJ:53:TYR:CD1	2.92	0.45
1:R1:259:PHE:HD1	1:S1:259:PHE:CE2	2.32	0.45
1:X1:81:PHE:CE2	1:IR:139:ARG:HB2	2.51	0.45
1:X1:139:ARG:HB2	1:I8:81:PHE:CE2	2.51	0.45
1:X1:361:LYS:NZ	1:IR:370:ASP:CG	2.73	0.45
2:e1:2:TYR:HB2	2:nG:55:GLY:HA3	1.94	0.45
1:f1:172:ARG:HD2	1:f1:276:LEU:HD23	1.97	0.45
1:h1:71:ARG:H	2:E4:26:LEU:HD12	1.81	0.45
1:i1:98:ASN:ND2	1:i1:99:MET:N	2.65	0.45
3:A2:9:ASN:CB	5:F9:29:THR:HA	2.46	0.45
4:B2:187:ILE:HB	4:B9:152:SER:OG	2.15	0.45
1:A3:372:VAL:HB	2:G3:11:MET:HB2	1.98	0.45
1:I3:54:LEU:HG	1:QL:116:MET:SD	2.56	0.45
1:I3:139:ARG:HB2	1:QL:81:PHE:CE2	2.51	0.45
1:T3:98:ASN:ND2	1:T3:99:MET:N	2.65	0.45
2:U3:40:SER:CB	1:IR:262:ALA:C	2.89	0.45
2:Z3:26:LEU:HD12	1:aG:71:ARG:H	1.82	0.45
2:Z3:40:SER:CB	1:YG:262:ALA:C	2.89	0.45
1:C4:136:ASN:O	1:CG:81:PHE:HZ	1.99	0.45
1:C4:139:ARG:HB2	1:CG:81:PHE:CE2	2.51	0.45
1:A4:64:ILE:CD1	1:B4:88:GLU:CG	2.93	0.45
1:A4:372:VAL:HB	2:G4:11:MET:HB2	1.98	0.45
1:J4:89:TYR:HE2	1:C8:63:LEU:HD13	1.71	0.45
1:J4:259:PHE:CD1	1:C8:259:PHE:CE1	2.98	0.45
1:Q4:208:LEU:HD11	1:Q4:391:ILE:HD13	1.46	0.45
1:Q4:262:ALA:C	2:WE:40:SER:CB	2.89	0.45
1:Q4:262:ALA:O	2:WE:40:SER:CB	2.64	0.45
1:T4:29:TYR:HB3	1:BS:315:ALA:HB1	1.98	0.45
2:U4:6:ASN:HA	1:BS:153:LEU:HD12	1.98	0.45
1:Y4:68:LEU:HD12	1:Y4:161:SER:HB3	1.99	0.45
1:Z4:71:ARG:H	2:M8:26:LEU:HD12	1.82	0.45
1:a4:361:LYS:HD3	1:a4:377:HIS:HD2	1.81	0.45
1:f4:39:TRP:CE3	1:B6:45:MET:HE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D5:51:ARG:CB	3:AH:6:ARG:CZ	2.93	0.45
1:C6:208:LEU:CD1	1:C6:391:ILE:HD12	1.95	0.45
2:E6:26:LEU:HD12	1:dQ:71:ARG:H	1.81	0.45
1:I6:156:TYR:HE1	1:I6:360:LEU:HD11	1.81	0.45
1:K6:39:TRP:O	1:hG:222:SER:OG	2.33	0.45
1:Q6:111:ARG:HG3	1:BS:105:GLU:CG	2.46	0.45
1:Q6:315:ALA:CB	1:CS:31:LYS:HZ1	2.15	0.45
1:S6:39:TRP:O	1:AS:222:SER:OG	2.35	0.45
1:a6:20:SER:HB2	1:SE:47:GLU:H	1.80	0.45
2:c6:26:LEU:HD12	1:a7:71:ARG:H	1.82	0.45
1:g6:262:ALA:C	2:hL:40:SER:CB	2.89	0.45
1:h6:90:VAL:HG12	1:AE:64:ILE:HB	1.97	0.45
1:C7:262:ALA:O	2:EE:40:SER:CB	2.64	0.45
1:B7:372:VAL:CG1	2:EP:11:MET:HB2	2.46	0.45
2:H7:17:ASP:HB2	1:gR:357:LYS:CD	2.46	0.45
1:I7:49:PHE:HD1	1:iR:22:LEU:HD11	1.81	0.45
1:I7:98:ASN:HD22	1:I7:99:MET:N	2.12	0.45
1:J7:41:ASN:ND2	1:J7:54:LEU:O	2.46	0.45
1:L7:98:ASN:ND2	1:L7:99:MET:N	2.64	0.45
2:M7:40:SER:CB	1:Y8:262:ALA:O	2.64	0.45
2:X7:17:ASP:HB2	1:QQ:357:LYS:CD	2.46	0.45
1:Z7:186:THR:HG21	1:Z7:214:LYS:HD2	1.98	0.45
1:Z7:259:PHE:CD1	1:IR:259:PHE:CE1	2.98	0.45
1:a7:14:VAL:HG21	1:KE:14:VAL:HG23	1.94	0.45
2:k7:33:ASP:O	2:k7:36:LYS:NZ	2.43	0.45
2:k7:40:SER:CB	1:QG:262:ALA:C	2.89	0.45
1:B8:20:SER:HB2	1:AE:47:GLU:H	1.80	0.45
1:J8:41:ASN:ND2	1:J8:54:LEU:O	2.46	0.45
2:c8:40:SER:CB	1:CR:262:ALA:O	2.64	0.45
1:g8:20:SER:CB	1:BS:47:GLU:CB	2.80	0.45
1:h8:64:ILE:CD1	1:i8:88:GLU:CG	2.93	0.45
2:k8:26:LEU:HD12	1:KL:71:ARG:H	1.81	0.45
3:A9:108:THR:O	3:A9:132:TYR:OH	2.32	0.45
4:B9:192:THR:CB	4:BA:147:THR:HG22	2.43	0.45
5:DA:35:ARG:CZ	1:AK:369:PHE:HE1	2.25	0.45
3:AB:155:GLU:HB2	1:AD:135:ASN:CG	2.41	0.45
5:EC:13:ASP:N	5:EC:13:ASP:OD1	2.45	0.45
2:ND:45:ILE:HG22	2:ND:46:HIS:CD2	2.50	0.45
1:DE:315:ALA:HB1	1:BP:29:TYR:HB3	1.98	0.45
2:EE:38:GLU:N	2:EE:38:GLU:CD	2.72	0.45
1:FE:143:GLN:CA	1:CP:82:ILE:HG12	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VE:145:LEU:HD23	2:WE:16:GLU:HA	1.97	0.45
1:aE:64:ILE:HB	1:AR:90:VAL:HG12	1.97	0.45
1:bE:186:THR:HG21	1:bE:214:LYS:HD2	1.98	0.45
1:dE:98:ASN:ND2	1:dE:99:MET:N	2.64	0.45
4:BF:152:SER:OG	4:BM:187:ILE:HB	2.15	0.45
5:DF:45:TYR:OH	5:EM:40:THR:CG2	2.64	0.45
1:AG:61:THR:C	1:AG:62:LEU:HD13	2.40	0.45
1:JG:64:ILE:CD1	1:KG:88:GLU:CG	2.93	0.45
1:LG:152:ALA:HB1	2:MG:8:ARG:HH22	1.80	0.45
1:ZG:68:LEU:HD12	1:ZG:161:SER:HB3	1.99	0.45
1:bG:361:LYS:HE2	1:bG:377:HIS:HB2	1.98	0.45
5:EH:25:ARG:NH1	5:DN:54:LYS:CD	2.71	0.45
5:EH:38:TYR:HB2	5:DN:45:TYR:CE2	2.50	0.45
5:CH:264:GLY:CA	5:NN:228:ARG:HH22	2.25	0.45
1:AJ:82:ILE:CD1	1:JS:144:THR:H	2.29	0.45
1:AJ:298:ARG:HH22	1:AJ:306:GLN:HA	1.81	0.45
1:KJ:109:LEU:HD21	1:CS:109:LEU:HD22	1.98	0.45
1:KJ:144:THR:H	1:AP:82:ILE:CD1	2.29	0.45
2:MJ:8:ARG:HH22	1:JS:374:HIS:CE1	2.32	0.45
1:AK:297:LEU:HD21	1:KP:29:TYR:HE2	1.81	0.45
1:CL:116:MET:SD	1:YR:54:LEU:HG	2.56	0.45
1:DL:98:ASN:ND2	1:DL:99:MET:N	2.64	0.45
1:IL:47:GLU:H	1:KQ:20:SER:HB2	1.80	0.45
1:IL:201:VAL:O	1:IL:205:ILE:HG13	2.16	0.45
1:LL:98:ASN:ND2	1:LL:99:MET:N	2.65	0.45
1:YL:39:TRP:CE3	1:SR:45:MET:HE1	2.51	0.45
1:YL:136:ASN:O	1:QR:81:PHE:HZ	1.99	0.45
1:YL:201:VAL:O	1:YL:205:ILE:HG13	2.16	0.45
3:AM:183:ILE:HD11	3:AM:222:LEU:HD23	1.97	0.45
5:OM:320:ILE:HG23	5:OM:320:ILE:O	2.16	0.45
3:AO:156:ILE:HD12	3:AO:159:HIS:HB3	1.97	0.45
5:NO:320:ILE:HG23	5:NO:320:ILE:O	2.16	0.45
1:KP:213:ALA:HA	1:KP:230:THR:HA	1.97	0.45
2:NP:11:MET:HA	2:NP:15:TYR:HB2	1.98	0.45
2:NP:20:LEU:HB2	2:NP:23:ARG:NH1	2.31	0.45
1:JR:68:LEU:HD12	1:JR:161:SER:HB3	1.98	0.45
1:LR:361:LYS:HD3	1:LR:377:HIS:HD2	1.81	0.45
1:bR:361:LYS:HE2	1:bR:377:HIS:HB2	1.98	0.45
1:jR:325:LYS:NZ	1:jR:325:LYS:CB	2.73	0.45
1:BS:250:LEU:HA	1:BS:254:LYS:HZ3	1.82	0.45
1:C1:116:MET:SD	1:Y8:54:LEU:HG	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:360:LEU:HD22	2:H6:22:LYS:HG2	1.91	0.45
1:B1:14:VAL:HG23	1:Y8:14:VAL:HG21	1.96	0.45
1:B1:45:MET:HE1	1:Y8:39:TRP:CE3	2.51	0.45
1:I1:47:GLU:H	1:UE:20:SER:HB2	1.80	0.45
1:I1:139:ARG:HB2	1:SE:81:PHE:CE2	2.51	0.45
1:J1:259:PHE:CD1	1:IG:259:PHE:CE1	2.98	0.45
1:L1:361:LYS:HE2	1:L1:377:HIS:HB2	1.98	0.45
1:Q1:81:PHE:CE2	1:Q8:139:ARG:HB2	2.51	0.45
1:R1:220:ARG:O	1:CJ:38:LYS:HD3	2.16	0.45
1:S1:100:ASP:CB	1:CJ:26:ASN:C	2.90	0.45
1:X1:81:PHE:HZ	1:IR:136:ASN:O	1.99	0.45
1:X1:262:ALA:O	2:c7:40:SER:CB	2.64	0.45
1:Y1:68:LEU:HD12	1:Y1:161:SER:HB3	1.99	0.45
1:f1:116:MET:SD	1:QG:54:LEU:HG	2.56	0.45
1:g1:90:VAL:HG12	1:CQ:64:ILE:HB	1.97	0.45
5:D2:45:TYR:OH	5:EB:40:THR:CG2	2.64	0.45
5:E2:17:PHE:HB2	5:E9:62:ARG:NH2	2.32	0.45
1:A3:61:THR:C	1:A3:62:LEU:HD13	2.40	0.45
1:D3:145:LEU:HD23	2:E3:16:GLU:HA	1.97	0.45
2:E3:26:LEU:HD12	1:CE:71:ARG:H	1.82	0.45
2:F3:1:MET:N	1:CE:150:ASN:ND2	2.61	0.45
2:H3:17:ASP:HB2	1:g7:357:LYS:CD	2.47	0.45
1:I3:357:LYS:CD	2:X8:17:ASP:HB2	2.47	0.45
1:Q3:262:ALA:C	2:eE:40:SER:CB	2.89	0.45
1:R3:259:PHE:CD1	1:I8:259:PHE:CE1	2.98	0.45
1:b3:235:LEU:HD22	1:b3:264:ILE:HG21	1.99	0.45
2:c3:40:SER:CB	1:g8:262:ALA:C	2.89	0.45
1:C4:81:PHE:HZ	1:aE:136:ASN:O	1.99	0.45
1:C4:262:ALA:C	2:ER:40:SER:CB	2.89	0.45
1:A4:90:VAL:HG12	1:QG:64:ILE:HB	1.97	0.45
1:D4:361:LYS:HE2	1:D4:377:HIS:HB2	1.98	0.45
1:J4:41:ASN:ND2	1:J4:54:LEU:O	2.46	0.45
1:J4:64:ILE:CD1	1:K4:88:GLU:CG	2.93	0.45
1:L4:98:ASN:ND2	1:L4:99:MET:N	2.64	0.45
1:L4:152:ALA:HB1	2:M4:8:ARG:HH22	1.80	0.45
1:Q4:64:ILE:HB	1:h8:90:VAL:HG12	1.97	0.45
1:Q4:259:PHE:CE1	1:h8:259:PHE:CD1	2.98	0.45
1:g4:220:ARG:O	1:CD:38:LYS:HD3	2.16	0.45
1:h4:45:MET:HE1	1:gG:39:TRP:CE3	2.51	0.45
1:C6:262:ALA:C	2:cG:40:SER:CB	2.89	0.45
2:E6:40:SER:CB	1:bQ:262:ALA:C	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H6:11:MET:HE3	1:Y8:372:VAL:HG12	1.96	0.45
1:I6:172:ARG:HD2	1:I6:276:LEU:HD23	1.97	0.45
2:M6:26:LEU:HD12	1:K8:71:ARG:H	1.82	0.45
1:Q6:362:PRO:HA	1:Q6:363:PRO:HD3	1.85	0.45
1:R6:68:LEU:HD12	1:R6:161:SER:HB3	1.99	0.45
1:S6:30:SER:CB	1:BS:98:ASN:ND2	2.79	0.45
1:S6:372:VAL:CG1	2:DS:11:MET:HB2	2.46	0.45
1:T6:361:LYS:HD3	1:T6:377:HIS:HD2	1.81	0.45
1:Y6:81:PHE:HZ	1:SE:136:ASN:O	1.99	0.45
1:a6:71:ARG:H	2:MQ:26:LEU:HD12	1.82	0.45
1:b6:145:LEU:HD23	2:c6:16:GLU:HA	1.97	0.45
1:j6:98:ASN:ND2	1:j6:99:MET:N	2.64	0.45
1:j6:108:MET:CE	1:BJ:367:PRO:HD2	2.47	0.45
1:C7:367:PRO:CD	1:LK:375:TRP:CH2	2.98	0.45
1:A7:68:LEU:HD12	1:A7:161:SER:HB3	1.99	0.45
2:E7:44:GLN:HB3	2:E7:45:ILE:H	1.63	0.45
2:H7:2:TYR:HB2	2:iQ:55:GLY:HA3	1.94	0.45
1:I7:116:MET:SD	1:CQ:54:LEU:HG	2.56	0.45
1:I7:177:ASP:OD2	1:CQ:33:TRP:HZ2	1.96	0.45
1:I7:375:TRP:CZ3	1:CQ:367:PRO:HG3	2.47	0.45
1:J7:61:THR:C	1:J7:62:LEU:HD13	2.40	0.45
1:Q7:139:ARG:HB2	1:YL:81:PHE:CE2	2.51	0.45
1:R7:41:ASN:ND2	1:R7:54:LEU:O	2.46	0.45
2:X7:53:PHE:O	1:QQ:62:LEU:CD1	2.62	0.45
1:Y7:39:TRP:CE3	1:SQ:45:MET:HE1	2.51	0.45
1:Y7:156:TYR:HE1	1:Y7:360:LEU:HD11	1.81	0.45
1:b7:134:ASN:HA	1:b7:371:GLU:HA	1.97	0.45
1:g7:14:VAL:HG23	1:CE:14:VAL:HG23	1.97	0.45
1:g7:54:LEU:HG	1:AE:116:MET:SD	2.56	0.45
1:g7:81:PHE:CE2	1:C8:139:ARG:HB2	2.51	0.45
1:g7:136:ASN:O	1:AE:81:PHE:HZ	1.99	0.45
1:h7:68:LEU:HD12	1:h7:161:SER:HB3	1.99	0.45
1:j7:145:LEU:HD23	2:k7:16:GLU:HA	1.97	0.45
2:k7:40:SER:CB	1:QG:262:ALA:O	2.64	0.45
1:B8:45:MET:HE1	1:AE:39:TRP:CE3	2.51	0.45
1:D8:361:LYS:HE2	1:D8:377:HIS:HB2	1.98	0.45
1:K8:259:PHE:O	1:K8:260:GLN:CG	2.62	0.45
1:Q8:201:VAL:O	1:Q8:205:ILE:HG13	2.16	0.45
1:S8:19:LYS:NZ	1:S8:37:ASP:OD1	2.37	0.45
1:Y8:116:MET:SD	1:bQ:54:LEU:HG	2.56	0.45
1:a8:45:MET:HE1	1:bQ:39:TRP:CE3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h8:41:ASN:ND2	1:h8:54:LEU:O	2.46	0.45
1:j8:361:LYS:HE2	1:j8:377:HIS:HB2	1.98	0.45
5:C9:244:ALA:HB2	5:OA:351:ASN:O	2.15	0.45
5:C9:264:GLY:O	5:NA:228:ARG:NH2	2.48	0.45
5:DA:130:GLN:OE1	5:FA:128:MET:SD	2.74	0.45
5:CA:244:ALA:HB2	5:OC:351:ASN:O	2.15	0.45
5:CA:248:GLN:HB3	5:NC:230:SER:CB	2.45	0.45
4:BB:3:ARG:CB	3:AM:194:ASN:HD22	2.12	0.45
5:DB:130:GLN:OE1	5:FB:128:MET:SD	2.74	0.45
5:EB:140:ASP:O	5:CB:140:ASP:CA	2.65	0.45
3:AC:9:ASN:CB	5:FH:29:THR:HA	2.46	0.45
3:AC:64:GLN:CG	1:AP:146:ALA:HB3	2.10	0.45
5:OC:320:ILE:HG23	5:OC:320:ILE:O	2.16	0.45
1:CD:45:MET:HE3	1:YG:14:VAL:CG1	2.33	0.45
1:CD:244:ASP:N	1:CD:273:PHE:O	2.47	0.45
1:DD:49:PHE:O	1:DD:52:LYS:NZ	2.49	0.45
2:FD:2:TYR:HB3	2:MS:55:GLY:HA3	1.84	0.45
1:KD:21:ALA:HB1	1:IS:123:ASN:HD22	1.73	0.45
1:KD:237:ASP:N	1:KD:237:ASP:OD1	2.48	0.45
1:LD:365:HIS:CE1	1:DK:362:PRO:CD	2.94	0.45
2:MD:8:ARG:NH2	1:KK:374:HIS:ND1	2.62	0.45
1:DE:375:TRP:CZ3	1:BP:367:PRO:HG3	2.50	0.45
1:BE:41:ASN:ND2	1:BE:54:LEU:O	2.46	0.45
1:ME:137:ASP:OD2	1:QQ:49:PHE:CB	2.59	0.45
1:NE:98:ASN:ND2	1:NE:99:MET:N	2.64	0.45
1:TE:68:LEU:HD12	1:TE:161:SER:HB3	1.99	0.45
1:aE:81:PHE:HZ	1:CG:136:ASN:O	1.99	0.45
1:aE:96:PRO:HD2	1:cE:166:LEU:HG	1.97	0.45
1:cE:45:MET:HE1	1:CG:39:TRP:CE3	2.51	0.45
5:CF:320:ILE:HG23	5:CF:320:ILE:O	2.16	0.45
1:LG:98:ASN:ND2	1:LG:99:MET:N	2.64	0.45
2:MG:38:GLU:N	2:MG:38:GLU:CD	2.72	0.45
1:hG:90:VAL:HG12	1:CL:64:ILE:HB	1.97	0.45
1:jG:361:LYS:HD3	1:jG:377:HIS:HD2	1.81	0.45
5:DH:130:GLN:OE1	5:FH:128:MET:SD	2.74	0.45
3:AI:108:THR:O	3:AI:132:TYR:OH	2.32	0.45
4:BI:29:LYS:CA	5:EM:64:TRP:HE1	2.25	0.45
5:DI:51:ARG:CB	3:AN:6:ARG:CZ	2.93	0.45
5:DI:130:GLN:OE1	5:FI:128:MET:SD	2.74	0.45
1:AJ:63:LEU:HD23	1:KJ:89:TYR:CZ	2.50	0.45
1:AJ:297:LEU:HD21	1:JS:29:TYR:HE2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:108:MET:HE1	1:LP:369:PHE:HB2	1.95	0.45
1:BJ:218:VAL:HG21	1:BJ:229:TYR:HB3	1.97	0.45
1:CJ:136:ASN:OD1	1:CJ:137:ASP:N	2.48	0.45
1:DJ:125:ILE:HD13	1:LP:24:ASP:OD2	2.17	0.45
1:KJ:197:LEU:HD21	1:KJ:342:ALA:HB2	1.98	0.45
1:KJ:357:LYS:HD3	3:AN:66:ILE:HA	1.97	0.45
1:KJ:374:HIS:CE1	2:MP:8:ARG:HH22	2.32	0.45
1:LJ:372:VAL:HG21	2:ES:10:MET:CB	2.32	0.45
2:NJ:34:THR:HA	2:NJ:36:LYS:HG2	1.99	0.45
1:BK:58:ILE:CD1	1:jR:55:PHE:CD2	2.97	0.45
1:DK:49:PHE:O	1:DK:52:LYS:NZ	2.49	0.45
1:DK:94:THR:O	1:KK:129:GLN:NE2	2.49	0.45
1:CL:98:ASN:HD22	1:CL:99:MET:N	2.12	0.45
1:AL:61:THR:C	1:AL:62:LEU:HD13	2.40	0.45
1:JL:90:VAL:HG12	1:YR:64:ILE:HB	1.97	0.45
1:QL:357:LYS:CD	2:XR:17:ASP:HB2	2.46	0.45
1:YL:49:PHE:HD1	1:SR:22:LEU:HD11	1.81	0.45
1:YL:172:ARG:HD2	1:YL:276:LEU:HD23	1.97	0.45
1:bL:361:LYS:HD3	1:bL:377:HIS:HD2	1.81	0.45
5:DM:34:ASP:OD1	5:DM:34:ASP:N	2.44	0.45
5:DM:54:LYS:CD	5:EO:25:ARG:NH1	2.71	0.45
3:AN:153:ASP:OD1	3:AN:153:ASP:C	2.59	0.45
3:AO:153:ASP:C	3:AO:153:ASP:OD1	2.59	0.45
1:CP:70:ASN:HD22	1:CP:168:GLU:HB3	1.80	0.45
1:KP:263:GLY:O	2:MP:39:ASP:N	2.48	0.45
1:AQ:168:GLU:OE2	1:BQ:211:ASN:ND2	2.38	0.45
1:DQ:98:ASN:ND2	1:DQ:99:MET:N	2.64	0.45
1:DQ:361:LYS:HE2	1:DQ:377:HIS:HB2	1.98	0.45
1:LQ:145:LEU:HD23	2:MQ:16:GLU:HA	1.97	0.45
1:QQ:201:VAL:O	1:QQ:205:ILE:HG13	2.16	0.45
1:QQ:262:ALA:O	2:MR:40:SER:CB	2.64	0.45
1:YQ:315:ALA:HB1	1:AS:29:TYR:HB3	1.98	0.45
1:DR:152:ALA:HB1	2:ER:8:ARG:HH22	1.80	0.45
1:DR:235:LEU:HD22	1:DR:264:ILE:HG21	1.99	0.45
1:bR:98:ASN:ND2	1:bR:99:MET:N	2.64	0.45
1:bR:361:LYS:HD3	1:bR:377:HIS:HD2	1.81	0.45
1:gR:156:TYR:HE1	1:gR:360:LEU:HD11	1.81	0.45
1:jR:71:ARG:HD3	1:jR:271:ILE:HD12	1.96	0.45
1:BS:197:LEU:HD11	1:BS:246:LEU:HD21	1.98	0.45
1:IS:298:ARG:HH22	1:IS:306:GLN:HA	1.81	0.45
2:MS:10:MET:HA	2:MS:14:SER:CB	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:262:ALA:C	2:b4:40:SER:CB	2.89	0.45
1:B1:71:ARG:H	2:b4:26:LEU:HD12	1.82	0.45
1:I1:262:ALA:C	2:OE:40:SER:CB	2.89	0.45
1:R1:89:TYR:HE2	1:Q6:63:LEU:HD13	1.71	0.45
1:T1:27:HIS:HB3	1:CJ:312:PRO:CD	2.46	0.45
2:U1:1:MET:H3	1:CJ:150:ASN:HD21	0.46	0.45
1:X1:63:LEU:HD13	1:J6:89:TYR:HE2	1.71	0.45
1:X1:64:ILE:HB	1:J6:90:VAL:HG12	1.97	0.45
1:Z1:22:LEU:HD11	1:IR:49:PHE:HD1	1.81	0.45
1:f1:39:TRP:CE3	1:B3:45:MET:HE1	2.51	0.45
1:f1:47:GLU:H	1:B3:20:SER:HB2	1.80	0.45
1:f1:201:VAL:O	1:f1:205:ILE:HG13	2.16	0.45
1:g1:68:LEU:HD12	1:g1:161:SER:HB3	1.99	0.45
1:h1:45:MET:HE1	1:QG:39:TRP:CE3	2.51	0.45
4:B2:147:THR:HG22	4:BB:192:THR:CB	2.43	0.45
5:F2:46:TYR:CG	5:FB:31:PHE:CE2	2.74	0.45
1:C3:262:ALA:C	2:EQ:40:SER:CB	2.89	0.45
1:I3:201:VAL:O	1:I3:205:ILE:HG13	2.16	0.45
1:K3:45:MET:HE1	1:I4:39:TRP:CE3	2.51	0.45
1:L3:235:LEU:HD22	1:L3:264:ILE:HG21	1.99	0.45
2:P3:17:ASP:HB2	1:Q8:357:LYS:CD	2.47	0.45
1:T3:235:LEU:HD22	1:T3:264:ILE:HG21	1.99	0.45
2:U3:40:SER:CB	1:IR:262:ALA:O	2.64	0.45
2:X3:17:ASP:HB2	1:I8:357:LYS:CD	2.46	0.45
1:Y3:361:LYS:HE2	1:Y3:377:HIS:HB2	1.98	0.45
2:Z3:40:SER:CB	1:YG:262:ALA:O	2.64	0.45
1:C4:156:TYR:HE1	1:C4:360:LEU:HD11	1.81	0.45
1:A4:168:GLU:OE2	1:B4:211:ASN:ND2	2.38	0.45
1:B4:22:LEU:HD11	1:aE:49:PHE:HD1	1.81	0.45
1:B4:45:MET:HE1	1:aE:39:TRP:CE3	2.51	0.45
1:Q4:39:TRP:CE3	1:KL:45:MET:HE1	2.51	0.45
1:X4:262:ALA:O	2:M8:40:SER:CB	2.64	0.45
2:e4:55:GLY:HA3	2:H6:2:TYR:HB2	1.94	0.45
1:f4:81:PHE:HZ	1:gG:136:ASN:O	1.99	0.45
1:f4:116:MET:SD	1:gG:54:LEU:HG	2.56	0.45
1:i4:26:ASN:C	1:LD:100:ASP:OD2	2.40	0.45
1:i4:136:ASN:HA	1:CD:81:PHE:CE2	2.50	0.45
1:i4:143:GLN:C	1:CD:82:ILE:CD1	2.88	0.45
5:D5:41:ASN:ND2	3:AH:11:GLU:O	2.50	0.45
1:C6:55:PHE:HE1	1:iG:46:PHE:HE1	1.65	0.45
1:C6:172:ARG:HD2	1:C6:276:LEU:HD23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B6:71:ARG:H	2:cG:26:LEU:HD12	1.82	0.45
1:D6:235:LEU:HD22	1:D6:264:ILE:HG21	1.99	0.45
1:I6:116:MET:SD	1:CL:54:LEU:HG	2.56	0.45
1:K6:150:ASN:HD21	2:lG:1:MET:H3	1.61	0.45
1:S6:153:LEU:HB3	2:DS:2:TYR:CE2	2.36	0.45
1:T6:235:LEU:HD22	1:T6:264:ILE:HG21	1.99	0.45
1:T6:351:LYS:NZ	1:YQ:60:GLU:OE2	2.43	0.45
2:U6:40:SER:CB	1:IG:262:ALA:O	2.64	0.45
1:Y6:116:MET:SD	1:SE:54:LEU:HG	2.56	0.45
1:a6:14:VAL:HG23	1:SE:14:VAL:HG23	1.97	0.45
2:d6:31:SER:HB3	2:f6:45:ILE:HG21	1.97	0.45
1:g6:120:LEU:O	1:DJ:37:ASP:N	2.47	0.45
1:h6:372:VAL:HB	2:m6:11:MET:HB2	1.98	0.45
1:j6:235:LEU:HD22	1:j6:264:ILE:HG21	1.99	0.45
2:k6:40:SER:CB	1:C8:262:ALA:C	2.89	0.45
1:C7:54:LEU:HD23	1:LK:118:THR:CG2	2.43	0.45
1:C7:64:ILE:HB	1:hR:90:VAL:HG12	1.97	0.45
1:A7:186:THR:HG21	1:A7:214:LYS:HD2	1.98	0.45
1:B7:33:TRP:HB3	1:BP:174:MET:HG3	1.44	0.45
1:D7:98:ASN:ND2	1:D7:99:MET:N	2.65	0.45
2:E7:26:LEU:HD12	1:BQ:71:ARG:H	1.81	0.45
1:I7:54:LEU:HG	1:gR:116:MET:SD	2.56	0.45
1:Q7:362:PRO:HA	1:Q7:363:PRO:HD3	1.85	0.45
1:S7:14:VAL:HG23	1:QR:14:VAL:HG23	1.97	0.45
2:U7:26:LEU:HD12	1:ME:71:ARG:H	1.82	0.45
1:Y7:49:PHE:HD1	1:SQ:22:LEU:HD11	1.81	0.45
1:Y7:357:LYS:CD	2:PR:17:ASP:HB2	2.47	0.45
1:B8:14:VAL:HG23	1:AE:14:VAL:HG23	1.97	0.45
1:L8:361:LYS:HE2	1:L8:377:HIS:HB2	1.98	0.45
2:U8:40:SER:CB	1:QL:262:ALA:C	2.89	0.45
1:g8:201:VAL:O	1:g8:205:ILE:HG13	2.16	0.45
1:g8:321:VAL:HG22	1:g8:327:PHE:CE2	2.51	0.45
1:j8:145:LEU:HD23	2:k8:16:GLU:HA	1.97	0.45
3:A9:73:ALA:HB1	3:A9:120:LEU:HB3	1.96	0.45
3:AA:11:GLU:O	5:DH:41:ASN:ND2	2.50	0.45
5:FA:31:PHE:CD2	5:FC:46:TYR:CD1	3.01	0.45
3:AB:114:PHE:CD2	1:AD:360:LEU:HD21	2.47	0.45
4:BC:32:PHE:HD2	5:FN:55:LEU:HD11	1.64	0.45
5:DC:9:LYS:HD3	5:DC:9:LYS:HA	1.70	0.45
5:DC:130:GLN:OE1	5:FC:128:MET:SD	2.74	0.45
1:AD:355:TYR:CZ	1:KK:139:ARG:NH1	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:109:LEU:HD23	1:DK:109:LEU:HD22	1.98	0.45
1:LD:33:TRP:NE1	1:DK:174:MET:CA	2.50	0.45
1:LD:82:ILE:HG12	1:YG:143:GLN:CA	2.19	0.45
1:DE:134:ASN:HA	1:DE:371:GLU:HA	1.97	0.45
1:DE:361:LYS:HE2	1:DE:377:HIS:HB2	1.98	0.45
1:FE:49:PHE:HB3	1:BP:137:ASP:OD2	2.16	0.45
1:LE:168:GLU:OE2	1:ME:211:ASN:ND2	2.38	0.45
1:NE:235:LEU:HD22	1:NE:264:ILE:HG21	1.99	0.45
1:SE:357:LYS:CD	2:PQ:17:ASP:HB2	2.47	0.45
1:aE:172:ARG:HD2	1:aE:276:LEU:HD23	1.97	0.45
1:bE:64:ILE:CD1	1:cE:88:GLU:CG	2.93	0.45
1:bE:372:VAL:HB	2:gE:11:MET:HB2	1.98	0.45
1:dE:325:LYS:NZ	1:dE:325:LYS:CB	2.73	0.45
2:hE:17:ASP:HB2	1:CR:357:LYS:CD	2.47	0.45
5:EF:62:ARG:NH2	5:EM:17:PHE:HB2	2.32	0.45
5:NF:228:ARG:HH22	5:CM:264:GLY:CA	2.25	0.45
1:CG:96:PRO:HD2	1:BG:166:LEU:HG	1.97	0.45
1:CG:300:TYR:CA	1:ZL:115:ARG:NH2	2.75	0.45
2:HG:17:ASP:HB2	1:YL:357:LYS:CD	2.46	0.45
1:bG:361:LYS:HD3	1:bG:377:HIS:HD2	1.81	0.45
1:gG:62:LEU:CD1	2:HL:53:PHE:O	2.62	0.45
2:kG:45:ILE:CG1	2:kG:46:HIS:H	2.23	0.45
5:CH:244:ALA:HB2	5:ON:351:ASN:O	2.15	0.45
5:DI:41:ASN:ND2	3:AN:11:GLU:O	2.50	0.45
1:DJ:350:ILE:HG22	1:DJ:384:ILE:HG13	1.97	0.45
1:KJ:51:ASN:HD22	1:AP:116:MET:HG2	1.71	0.45
1:KJ:149:THR:HG22	2:MP:15:TYR:CB	2.12	0.45
1:KJ:237:ASP:OD1	1:KJ:237:ASP:N	2.48	0.45
1:LJ:346:ASP:OD1	1:LJ:346:ASP:N	2.50	0.45
1:AK:253:THR:O	1:AK:257:ASN:HB2	2.16	0.45
1:CK:26:ASN:C	1:iR:100:ASP:CB	2.90	0.45
1:CK:38:LYS:HD3	1:hR:220:ARG:O	2.16	0.45
2:EK:8:ARG:HH11	2:EK:10:MET:H	1.64	0.45
1:LK:38:LYS:O	1:DP:222:SER:HB2	2.14	0.45
2:NK:45:ILE:HG22	2:NK:46:HIS:CD2	2.50	0.45
1:CL:177:ASP:OD2	1:YR:33:TRP:HZ2	1.96	0.45
1:AL:41:ASN:ND2	1:AL:54:LEU:O	2.46	0.45
2:EL:38:GLU:N	2:EL:38:GLU:CD	2.72	0.45
1:YL:139:ARG:HB2	1:QR:81:PHE:CE2	2.51	0.45
1:YL:262:ALA:C	2:UQ:40:SER:CB	2.89	0.45
1:YL:262:ALA:O	2:UQ:40:SER:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AN:183:ILE:HD11	3:AN:222:LEU:HD23	1.97	0.45
3:AO:66:ILE:HG23	1:IS:150:ASN:CG	2.40	0.45
5:EO:140:ASP:O	5:CO:140:ASP:CA	2.65	0.45
1:CP:255:ILE:HG23	1:CP:261:ILE:HG21	1.99	0.45
2:NP:10:MET:HA	2:NP:14:SER:CB	2.42	0.45
1:DQ:361:LYS:HD3	1:DQ:377:HIS:HD2	1.81	0.45
1:QQ:156:TYR:HE1	1:QQ:360:LEU:HD11	1.81	0.45
1:RQ:186:THR:HG21	1:RQ:214:LYS:HD2	1.98	0.45
1:YQ:361:LYS:HD3	1:YQ:377:HIS:HD2	1.81	0.45
1:eQ:361:LYS:HD3	1:eQ:377:HIS:HD2	1.81	0.45
1:AR:372:VAL:HB	2:GR:11:MET:HB2	1.98	0.45
1:DR:361:LYS:HE2	1:DR:377:HIS:HB2	1.98	0.45
1:LR:145:LEU:HD23	2:MR:16:GLU:HA	1.97	0.45
1:LR:152:ALA:HB1	2:MR:8:ARG:HH22	1.80	0.45
1:RR:68:LEU:HD12	1:RR:161:SER:HB3	1.99	0.45
1:TR:361:LYS:HD3	1:TR:377:HIS:HD2	1.81	0.45
1:KS:73:ASN:OD1	2:MS:26:LEU:N	2.50	0.45
1:C1:55:PHE:HE1	1:dQ:46:PHE:HE1	1.65	0.45
1:A1:372:VAL:HB	2:G1:11:MET:HB2	1.98	0.45
1:D1:235:LEU:HD22	1:D1:264:ILE:HG21	1.99	0.45
2:H1:11:MET:HE3	1:f4:372:VAL:HG12	1.96	0.45
1:J1:64:ILE:CD1	1:K1:88:GLU:CG	2.93	0.45
1:K1:20:SER:HB2	1:Y6:47:GLU:H	1.80	0.45
1:Q1:262:ALA:C	2:M3:40:SER:CB	2.89	0.45
1:R1:105:GLU:CA	1:CS:369:PHE:CE2	2.62	0.45
1:T1:235:LEU:HD22	1:T1:264:ILE:HG21	1.99	0.45
1:X1:39:TRP:CE3	1:K8:45:MET:HE1	2.51	0.45
1:X1:49:PHE:HD1	1:K8:22:LEU:HD11	1.81	0.45
1:X1:81:PHE:CE2	1:IR:139:ARG:CD	2.71	0.45
1:X1:139:ARG:HD3	1:I8:81:PHE:HD2	1.64	0.45
1:Y1:186:THR:HG21	1:Y1:214:LYS:HD2	1.98	0.45
1:a1:98:ASN:ND2	1:a1:99:MET:N	2.65	0.45
2:b1:26:LEU:HD12	1:aR:71:ARG:H	1.81	0.45
1:f1:136:ASN:HD21	1:h7:101:LEU:HD21	1.82	0.45
1:h1:22:LEU:HD11	1:QG:49:PHE:HD1	1.81	0.45
5:E2:57:GLU:HG2	4:BF:33:TYR:CE1	2.49	0.45
1:B3:39:TRP:O	1:AQ:222:SER:OG	2.33	0.45
1:J3:186:THR:HG21	1:J3:214:LYS:HD2	1.98	0.45
1:K3:19:LYS:NZ	1:K3:37:ASP:OD1	2.37	0.45
1:L3:145:LEU:HD23	2:M3:16:GLU:HA	1.97	0.45
1:Q3:14:VAL:HG21	1:Z4:14:VAL:HG23	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q3:64:ILE:HB	1:J8:90:VAL:HG12	1.97	0.45
1:Q3:321:VAL:HG22	1:Q3:327:PHE:CE2	2.51	0.45
1:Q3:360:LEU:HD22	2:P8:22:LYS:HG2	1.91	0.45
1:Q3:370:ASP:CG	1:X4:361:LYS:NZ	2.73	0.45
1:Y3:235:LEU:HD22	1:Y3:264:ILE:HG21	1.99	0.45
1:b3:152:ALA:HB1	2:c3:8:ARG:HH22	1.80	0.45
1:b3:361:LYS:HE2	1:b3:377:HIS:HB2	1.98	0.45
1:C4:201:VAL:O	1:C4:205:ILE:HG13	2.16	0.45
1:C4:321:VAL:HG22	1:C4:327:PHE:CE2	2.51	0.45
1:D4:145:LEU:HD23	2:E4:16:GLU:HA	1.97	0.45
1:I4:262:ALA:O	2:UR:40:SER:CB	2.64	0.45
1:J4:68:LEU:HD12	1:J4:161:SER:HB3	1.99	0.45
1:J4:186:THR:HG21	1:J4:214:LYS:HD2	1.98	0.45
2:M4:40:SER:CB	1:g7:262:ALA:C	2.89	0.45
1:Q4:49:PHE:HD1	1:KL:22:LEU:HD11	1.81	0.45
1:R4:98:ASN:HD22	1:DD:30:SER:HB3	1.81	0.45
1:S4:39:TRP:O	1:TE:222:SER:OG	2.33	0.45
1:T4:55:PHE:CD2	1:AS:58:ILE:CD1	2.97	0.45
1:X4:54:LEU:HG	1:CR:116:MET:SD	2.56	0.45
1:X4:55:PHE:HE1	1:BR:46:PHE:HE1	1.65	0.45
1:X4:156:TYR:HE1	1:X4:360:LEU:HD11	1.81	0.45
1:X4:201:VAL:O	1:X4:205:ILE:HG13	2.16	0.45
1:f4:54:LEU:HG	1:C6:116:MET:SD	2.56	0.45
1:f4:96:PRO:HD2	1:h4:166:LEU:HG	1.97	0.45
1:g4:68:LEU:HD12	1:g4:161:SER:HB3	1.99	0.45
1:i4:98:ASN:ND2	1:i4:99:MET:N	2.64	0.45
5:D5:130:GLN:OE1	5:F5:128:MET:SD	2.74	0.45
1:I6:14:VAL:HG23	1:aR:14:VAL:HG21	1.94	0.45
1:I6:55:PHE:HE1	1:aR:46:PHE:HE1	1.65	0.45
1:I6:139:ARG:HB2	1:YR:81:PHE:CE2	2.51	0.45
1:J6:68:LEU:HD12	1:J6:161:SER:HB3	1.99	0.45
1:L6:71:ARG:HD3	1:L6:271:ILE:HD12	1.96	0.45
1:Y6:357:LYS:CD	2:RE:17:ASP:HB2	2.47	0.45
1:b6:98:ASN:ND2	1:b6:99:MET:N	2.65	0.45
2:c6:44:GLN:HB3	2:c6:45:ILE:H	1.63	0.45
2:d6:1:MET:H2	1:a7:150:ASN:HD21	1.62	0.45
1:g6:62:LEU:CD1	2:JE:53:PHE:O	2.62	0.45
1:g6:300:TYR:CA	1:BE:115:ARG:NH2	2.75	0.45
1:i6:30:SER:CB	1:CJ:98:ASN:ND2	2.79	0.45
1:i6:71:ARG:H	2:hL:26:LEU:HD12	1.82	0.45
1:i6:372:VAL:CG1	2:EJ:11:MET:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n6:17:ASP:HB2	1:AE:357:LYS:CD	2.47	0.45
1:J7:362:PRO:HA	1:J7:363:PRO:HD3	1.83	0.45
1:L7:235:LEU:HD22	1:L7:264:ILE:HG21	1.99	0.45
2:M7:38:GLU:N	2:M7:38:GLU:CD	2.72	0.45
2:P7:53:PHE:O	1:bQ:62:LEU:CD1	2.62	0.45
1:Q7:14:VAL:HG23	1:aL:14:VAL:HG21	1.94	0.45
1:Q7:39:TRP:CE3	1:aL:45:MET:HE1	2.51	0.45
1:a7:46:PHE:HE1	1:KE:55:PHE:HE1	1.65	0.45
1:a7:260:GLN:HE21	1:a7:260:GLN:HA	1.82	0.45
1:b7:235:LEU:HD22	1:b7:264:ILE:HG21	1.99	0.45
1:b7:361:LYS:HE2	1:b7:377:HIS:HB2	1.98	0.45
1:g7:139:ARG:HB2	1:AE:81:PHE:CE2	2.51	0.45
1:i7:20:SER:HB2	1:C8:47:GLU:H	1.80	0.45
1:I8:55:PHE:HE1	1:KR:46:PHE:HE1	1.65	0.45
1:L8:235:LEU:HD22	1:L8:264:ILE:HG21	1.99	0.45
1:R8:186:THR:HG21	1:R8:214:LYS:HD2	1.98	0.45
1:S8:45:MET:HE1	1:IG:39:TRP:CE3	2.51	0.45
1:T8:235:LEU:HD22	1:T8:264:ILE:HG21	1.99	0.45
1:Y8:81:PHE:HZ	1:bQ:136:ASN:O	1.99	0.45
1:Z8:68:LEU:HD12	1:Z8:161:SER:HB3	1.99	0.45
1:Z8:186:THR:HG21	1:Z8:214:LYS:HD2	1.98	0.45
1:b8:98:ASN:ND2	1:b8:99:MET:N	2.64	0.45
1:g8:156:TYR:HE1	1:g8:360:LEU:HD11	1.81	0.45
1:g8:375:TRP:CZ3	1:DD:367:PRO:CG	2.92	0.45
3:A9:153:ASP:OD1	3:A9:153:ASP:C	2.59	0.45
5:D9:130:GLN:OE1	5:F9:128:MET:SD	2.74	0.45
1:CD:55:PHE:HD2	1:YG:58:ILE:HD13	1.78	0.45
1:CD:255:ILE:HG23	1:CD:261:ILE:HG21	1.99	0.45
1:KD:109:LEU:HD21	1:DK:109:LEU:HD22	1.98	0.45
1:FE:98:ASN:ND2	1:FE:99:MET:N	2.65	0.45
1:LE:372:VAL:HB	2:QE:11:MET:HB2	1.98	0.45
1:ME:45:MET:HE1	1:QQ:39:TRP:CE3	2.51	0.45
1:SE:262:ALA:C	2:MG:40:SER:CB	2.89	0.45
5:DF:130:GLN:OE1	5:FF:128:MET:SD	2.74	0.45
1:CG:357:LYS:CD	2:fL:17:ASP:HB2	2.46	0.45
1:AG:372:VAL:HB	2:GG:11:MET:HB2	1.98	0.45
2:HG:55:GLY:HA3	2:XL:2:TYR:HB2	1.94	0.45
1:JG:68:LEU:HD12	1:JG:161:SER:HB3	1.99	0.45
1:ZG:372:VAL:HB	2:eG:11:MET:HB2	1.98	0.45
1:aG:39:TRP:O	1:BK:222:SER:OG	2.34	0.45
1:gG:64:ILE:HB	1:AL:90:VAL:HG12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hG:372:VAL:HB	2:mG:11:MET:HB2	1.98	0.45
4:BH:10:ASP:OD2	5:FN:38:TYR:OH	2.25	0.45
5:EH:140:ASP:O	5:CH:140:ASP:CA	2.65	0.45
1:AJ:253:THR:O	1:AJ:257:ASN:HB2	2.16	0.45
1:BJ:98:ASN:ND2	1:LP:30:SER:N	2.62	0.45
1:BJ:133:LEU:HG	2:iL:11:MET:HG2	1.97	0.45
1:CJ:255:ILE:HG23	1:CJ:261:ILE:HG21	1.99	0.45
1:DJ:109:LEU:HD22	1:KP:109:LEU:HD23	1.98	0.45
7:IJ:13:ALA:HB3	1:LJ:192:THR:HB	1.98	0.45
1:LJ:32:SER:HB3	1:CS:170:GLU:HB2	1.97	0.45
1:LJ:349:SER:O	1:LJ:385:SER:N	2.38	0.45
1:CL:361:LYS:HZ2	1:YR:370:ASP:CG	2.25	0.45
1:CL:375:TRP:CZ3	1:YR:367:PRO:HG3	2.47	0.45
1:DL:235:LEU:HD22	1:DL:264:ILE:HG21	1.99	0.45
1:IL:39:TRP:CE3	1:KQ:45:MET:HE1	2.51	0.45
1:JL:55:PHE:O	1:JL:57:LYS:NZ	2.45	0.45
1:JL:68:LEU:HD12	1:JL:161:SER:HB3	1.99	0.45
1:RL:372:VAL:HB	2:WL:11:MET:HB2	1.98	0.45
1:TL:145:LEU:HD23	2:UL:16:GLU:HA	1.98	0.45
1:YL:54:LEU:HG	1:QR:116:MET:SD	2.56	0.45
1:ZL:61:THR:C	1:ZL:62:LEU:HD13	2.40	0.45
5:EO:140:ASP:CB	5:CO:139:LYS:HB3	2.01	0.45
5:CO:320:ILE:O	5:CO:320:ILE:HG23	2.16	0.45
1:DP:94:THR:O	1:KP:129:GLN:NE2	2.49	0.45
1:DP:150:ASN:OD1	2:mR:2:TYR:CA	2.64	0.45
1:CQ:81:PHE:CE2	1:gR:139:ARG:HB2	2.51	0.45
1:AQ:372:VAL:HB	2:GQ:11:MET:HB2	1.98	0.45
1:BQ:45:MET:HE1	1:gR:39:TRP:CE3	2.51	0.45
1:IQ:262:ALA:C	2:cR:40:SER:CB	2.89	0.45
1:LQ:325:LYS:NZ	1:LQ:325:LYS:CB	2.73	0.45
1:LQ:361:LYS:HE2	1:LQ:377:HIS:HB2	1.98	0.45
1:IR:156:TYR:HE1	1:IR:360:LEU:HD11	1.81	0.45
1:IR:201:VAL:O	1:IR:205:ILE:HG13	2.16	0.45
1:TR:235:LEU:HD22	1:TR:264:ILE:HG21	1.99	0.45
1:gR:201:VAL:O	1:gR:205:ILE:HG13	2.16	0.45
1:gR:321:VAL:HG22	1:gR:327:PHE:CE2	2.51	0.45
1:iR:19:LYS:NZ	1:iR:37:ASP:OD1	2.37	0.45
1:AS:4:GLN:N	1:AS:4:GLN:NE2	2.60	0.45
1:BS:244:ASP:N	1:BS:273:PHE:O	2.47	0.45
1:CS:12:LEU:HG	1:CS:14:VAL:H	1.82	0.45
2:H1:2:TYR:HB2	2:fG:55:GLY:HA3	1.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I1:14:VAL:HG21	1:UE:14:VAL:HG23	1.96	0.45
1:I1:55:PHE:HE1	1:UE:46:PHE:HE1	1.65	0.45
1:K1:14:VAL:HG23	1:Y6:14:VAL:HG23	1.97	0.45
2:M1:40:SER:CB	1:Q8:262:ALA:C	2.89	0.45
1:T1:159:LYS:NZ	1:gL:94:THR:OG1	2.34	0.45
1:T1:372:VAL:HG13	2:HJ:11:MET:HE2	1.65	0.45
2:W1:2:TYR:HE2	1:CS:157:LYS:HE3	1.61	0.45
1:X1:49:PHE:CB	1:K8:137:ASP:OD2	2.59	0.45
1:Y1:203:GLU:HB3	1:I6:248:SER:OG	2.17	0.45
2:e1:22:LYS:HG2	1:I6:360:LEU:HD22	1.91	0.45
1:f1:300:TYR:CA	1:AQ:115:ARG:NH2	2.75	0.45
1:g1:222:SER:OG	1:K7:39:TRP:O	2.33	0.45
1:i1:235:LEU:HD22	1:i1:264:ILE:HG21	1.99	0.45
3:A2:107:LEU:C	2:MD:7:MET:CG	2.90	0.45
5:D2:54:LYS:CD	5:EB:25:ARG:NH1	2.71	0.45
5:N2:320:ILE:O	5:N2:320:ILE:HG23	2.16	0.45
1:D3:325:LYS:NZ	1:D3:325:LYS:CB	2.73	0.45
1:D3:361:LYS:HE2	1:D3:377:HIS:HB2	1.98	0.45
1:I3:81:PHE:CE2	1:I4:139:ARG:HB2	2.51	0.45
1:I3:262:ALA:C	2:E8:40:SER:CB	2.89	0.45
1:I3:362:PRO:HA	1:I3:363:PRO:HD3	1.84	0.45
1:K3:22:LEU:HD11	1:I4:49:PHE:HD1	1.81	0.45
1:Q3:49:PHE:HD1	1:Z4:22:LEU:HD11	1.81	0.45
1:S3:150:ASN:HD21	2:fE:1:MET:H2	1.62	0.45
1:S3:362:PRO:HA	1:S3:363:PRO:HD3	1.79	0.45
2:c3:26:LEU:HD12	1:i8:71:ARG:H	1.82	0.45
1:A4:41:ASN:ND2	1:A4:54:LEU:O	2.46	0.45
1:B4:71:ARG:H	2:ER:26:LEU:HD12	1.82	0.45
1:K4:19:LYS:NZ	1:K4:37:ASP:OD1	2.37	0.45
1:K4:71:ARG:H	2:UR:26:LEU:HD12	1.82	0.45
1:K4:260:GLN:HE21	1:K4:260:GLN:HA	1.82	0.45
1:S4:71:ARG:H	2:WE:26:LEU:HD12	1.82	0.45
1:S4:362:PRO:HA	1:S4:363:PRO:HD3	1.80	0.45
1:T4:235:LEU:HD22	1:T4:264:ILE:HG21	1.99	0.45
1:X4:300:TYR:CA	1:Z8:115:ARG:NH2	2.75	0.45
1:g4:186:THR:HG21	1:g4:214:LYS:HD2	1.98	0.45
1:h4:260:GLN:HA	1:h4:260:GLN:HE21	1.82	0.45
1:i4:31:LYS:HB2	1:CD:314:GLY:O	2.15	0.45
3:A5:11:GLU:O	5:DO:41:ASN:ND2	2.50	0.45
5:C5:320:ILE:HG23	5:C5:320:ILE:O	2.16	0.45
1:C6:39:TRP:CE3	1:iG:45:MET:HE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:372:VAL:HB	2:G6:11:MET:HB2	1.98	0.45
1:I6:35:PHE:O	1:YR:119:LYS:HD3	2.17	0.45
1:I6:39:TRP:CE3	1:aR:45:MET:HE1	2.51	0.45
1:I6:201:VAL:O	1:I6:205:ILE:HG13	2.16	0.45
1:I6:321:VAL:HG22	1:I6:327:PHE:CE2	2.51	0.45
2:M6:40:SER:CB	1:I8:262:ALA:C	2.89	0.45
1:Q6:58:ILE:HD13	1:CJ:55:PHE:HB3	1.98	0.45
2:U6:40:SER:CB	1:IG:262:ALA:C	2.89	0.45
2:U6:44:GLN:HB3	2:U6:45:ILE:H	1.63	0.45
1:Y6:81:PHE:CE2	1:SE:139:ARG:HB2	2.51	0.45
1:a6:14:VAL:HG23	1:SE:14:VAL:HG21	1.96	0.45
1:b6:235:LEU:HD22	1:b6:264:ILE:HG21	1.99	0.45
1:i6:21:ALA:CB	1:DJ:47:GLU:O	2.58	0.45
1:j6:107:LEU:HD21	1:BJ:369:PHE:HZ	1.78	0.45
1:A7:203:GLU:HB3	1:gR:248:SER:OG	2.17	0.45
1:I7:119:LYS:HD3	1:CQ:35:PHE:O	2.17	0.45
1:J7:90:VAL:HG12	1:bQ:64:ILE:HB	1.97	0.45
2:M7:26:LEU:HD12	1:a8:71:ARG:H	1.82	0.45
2:P7:17:ASP:HB2	1:bQ:357:LYS:CD	2.46	0.45
1:Q7:55:PHE:HE1	1:aL:46:PHE:HE1	1.65	0.45
1:Q7:262:ALA:C	2:UL:40:SER:CB	2.89	0.45
1:Y7:248:SER:OG	1:JR:203:GLU:HB3	2.17	0.45
1:Y7:274:ASP:OD1	1:JR:207:ASN:HA	2.15	0.45
1:Z7:68:LEU:HD12	1:Z7:161:SER:HB3	1.98	0.45
1:g7:49:PHE:HD1	1:CE:22:LEU:HD11	1.81	0.45
1:I8:39:TRP:CE3	1:KR:45:MET:HE1	2.51	0.45
1:Q8:171:MET:HE3	1:Q8:171:MET:HB3	1.87	0.45
1:S8:22:LEU:HD11	1:IG:49:PHE:HD1	1.81	0.45
1:Y8:96:PRO:HD2	1:a8:166:LEU:HG	1.97	0.45
1:Y8:362:PRO:HA	1:Y8:363:PRO:HD3	1.85	0.45
1:b8:145:LEU:HD23	2:c8:16:GLU:HA	1.97	0.45
2:d8:1:MET:H3	1:BR:150:ASN:HD21	1.63	0.45
1:i8:143:GLN:C	1:BD:82:ILE:HG12	2.42	0.45
5:D9:51:ARG:CB	3:AB:6:ARG:CZ	2.93	0.45
5:CA:320:ILE:O	5:CA:320:ILE:HG23	2.16	0.45
5:NB:230:SER:CB	5:CF:248:GLN:HB3	2.45	0.45
4:BC:192:THR:CB	4:BH:147:THR:HG22	2.43	0.45
5:CC:320:ILE:O	5:CC:320:ILE:HG23	2.16	0.45
1:DD:94:THR:O	1:KD:129:GLN:NE2	2.49	0.45
1:LD:38:LYS:O	1:DK:222:SER:CB	2.65	0.45
1:LD:82:ILE:HG23	1:YG:143:GLN:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:235:LEU:HD22	1:DE:264:ILE:HG21	1.99	0.45
1:BE:220:ARG:O	1:CP:38:LYS:HD3	2.16	0.45
1:FE:235:LEU:HD22	1:FE:264:ILE:HG21	1.99	0.45
2:HE:31:SER:HB3	2:JE:45:ILE:HG21	1.97	0.45
1:TE:101:LEU:HD21	1:IL:136:ASN:HD21	1.82	0.45
1:VE:361:LYS:HD3	1:VE:377:HIS:HD2	1.81	0.45
1:bE:68:LEU:HD12	1:bE:161:SER:HB3	1.99	0.45
1:bE:115:ARG:NH2	1:CR:300:TYR:CA	2.75	0.45
1:bE:203:GLU:HB3	1:CR:248:SER:OG	2.17	0.45
5:OF:320:ILE:O	5:OF:321:ASP:HB2	2.17	0.45
5:OF:320:ILE:O	5:OF:320:ILE:HG23	2.16	0.45
1:CG:156:TYR:HE1	1:CG:360:LEU:HD11	1.81	0.45
1:AG:90:VAL:HG12	1:YL:64:ILE:HB	1.97	0.45
1:AG:222:SER:OG	1:SR:39:TRP:O	2.33	0.45
1:DG:361:LYS:HD3	1:DG:377:HIS:HD2	1.81	0.45
1:IG:201:VAL:O	1:IG:205:ILE:HG13	2.16	0.45
1:JG:186:THR:HG21	1:JG:214:LYS:HD2	1.98	0.45
1:YG:201:VAL:O	1:YG:205:ILE:HG13	2.16	0.45
1:gG:357:LYS:CD	2:HL:17:ASP:HB2	2.46	0.45
1:jG:235:LEU:HD22	1:jG:264:ILE:HG21	1.99	0.45
5:CH:320:ILE:HG23	5:CH:320:ILE:O	2.16	0.45
5:NH:320:ILE:O	5:NH:320:ILE:HG23	2.16	0.45
1:KJ:374:HIS:ND1	2:MP:8:ARG:NH2	2.62	0.45
1:LJ:35:PHE:HD1	1:CS:384:ILE:HD13	1.75	0.45
1:AK:170:GLU:HG3	1:KP:32:SER:OG	2.17	0.45
1:LK:38:LYS:C	1:DP:222:SER:CB	2.81	0.45
1:LK:173:ALA:HB2	1:LK:279:VAL:HG11	1.98	0.45
1:CL:119:LYS:HD3	1:YR:35:PHE:O	2.17	0.45
1:AL:372:VAL:HB	2:GL:11:MET:HB2	1.98	0.45
1:IL:156:TYR:HE1	1:IL:360:LEU:HD11	1.81	0.45
1:TL:235:LEU:HD22	1:TL:264:ILE:HG21	1.99	0.45
1:bL:98:ASN:ND2	1:bL:99:MET:N	2.64	0.45
3:AO:151:ASN:HB3	1:IS:58:ILE:CD1	2.45	0.45
5:DO:130:GLN:OE1	5:FO:128:MET:SD	2.74	0.45
5:EO:136:SER:O	5:EO:140:ASP:N	2.50	0.45
1:CP:244:ASP:N	1:CP:273:PHE:O	2.47	0.45
2:FP:41:TYR:HB3	8:QP:122:ALA:HB3	1.99	0.45
2:GP:53:PHE:HB3	1:KP:62:LEU:HD11	1.98	0.45
1:CQ:119:LYS:HD3	1:gR:35:PHE:O	2.17	0.45
1:BQ:14:VAL:HG21	1:gR:14:VAL:HG23	1.94	0.45
1:BQ:46:PHE:HE1	1:gR:55:PHE:HE1	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UQ:45:ILE:HG13	2:UQ:46:HIS:H	1.66	0.45
2:aQ:1:MET:H3	1:AS:150:ASN:CG	2.23	0.45
1:cQ:372:VAL:HB	2:hQ:11:MET:HB2	1.98	0.45
1:AR:68:LEU:HD12	1:AR:161:SER:HB3	1.99	0.45
1:JR:362:PRO:HA	1:JR:363:PRO:HD3	1.83	0.45
1:TR:98:ASN:ND2	1:TR:99:MET:N	2.64	0.45
1:YR:201:VAL:O	1:YR:205:ILE:HG13	2.16	0.45
1:ZR:372:VAL:HB	2:eR:11:MET:HB2	1.98	0.45
1:hR:68:LEU:HD12	1:hR:161:SER:HB3	1.99	0.45
1:CS:94:THR:O	1:JS:129:GLN:NE2	2.49	0.45
1:KS:51:ASN:HB3	1:KS:54:LEU:HD13	1.99	0.45
1:C1:39:TRP:CE3	1:dQ:45:MET:HE1	2.51	0.45
1:R1:105:GLU:OE1	1:AS:110:LYS:HD3	2.17	0.45
1:R1:372:VAL:HB	2:V1:11:MET:HB2	1.98	0.45
1:S1:46:PHE:HE1	1:Q8:55:PHE:HE1	1.65	0.45
2:U1:6:ASN:HA	1:CJ:153:LEU:HD12	1.98	0.45
1:Z1:137:ASP:OD2	1:IR:49:PHE:CB	2.59	0.45
1:f1:35:PHE:O	1:C3:119:LYS:HD3	2.17	0.45
1:g1:55:PHE:O	1:g1:57:LYS:NZ	2.45	0.45
1:g1:101:LEU:HD21	1:gR:136:ASN:HD21	1.82	0.45
2:k1:1:MET:N	1:K7:150:ASN:ND2	2.61	0.45
3:A2:11:GLU:O	5:DA:41:ASN:ND2	2.50	0.45
3:A2:156:ILE:HD12	3:A2:159:HIS:HB3	1.96	0.45
3:A2:183:ILE:HD11	3:A2:222:LEU:HD23	1.97	0.45
3:A2:237:GLU:OE1	3:AB:231:LEU:HD21	2.17	0.45
5:C2:264:GLY:CA	5:N9:228:ARG:HH22	2.25	0.45
1:C3:35:PHE:O	1:QG:119:LYS:HD3	2.17	0.45
1:C3:136:ASN:HD21	1:A4:101:LEU:HD21	1.82	0.45
1:C3:139:ARG:HB2	1:QG:81:PHE:CE2	2.51	0.45
1:I3:55:PHE:HE1	1:SL:46:PHE:HE1	1.65	0.45
1:L3:361:LYS:HE2	1:L3:377:HIS:HB2	1.98	0.45
1:S3:45:MET:HE1	1:CR:39:TRP:CE3	2.51	0.45
1:S3:372:VAL:HG11	2:fE:11:MET:HB2	1.99	0.45
2:U3:26:LEU:HD12	1:KR:71:ARG:H	1.82	0.45
1:C4:116:MET:SD	1:aE:54:LEU:HG	2.56	0.45
1:A4:259:PHE:CD1	1:QG:259:PHE:CE1	2.98	0.45
1:I4:201:VAL:O	1:I4:205:ILE:HG13	2.16	0.45
1:I4:262:ALA:C	2:UR:40:SER:CB	2.89	0.45
1:Q4:119:LYS:HD3	1:IQ:35:PHE:O	2.17	0.45
1:S4:100:ASP:CB	1:BS:26:ASN:C	2.90	0.45
2:U4:1:MET:H3	1:BS:150:ASN:HD21	0.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U4:15:TYR:CZ	1:BS:138:THR:HG21	2.52	0.45
1:X4:39:TRP:CE3	1:BR:45:MET:HE1	2.51	0.45
1:X4:136:ASN:HD21	1:bE:101:LEU:HD21	1.82	0.45
1:Y4:372:VAL:HB	2:d4:11:MET:HB2	1.98	0.45
1:g4:104:ASN:O	1:DK:369:PHE:CZ	2.69	0.45
1:g4:115:ARG:NH2	1:YG:300:TYR:CA	2.75	0.45
1:g4:126:VAL:HG23	1:CD:25:PHE:CZ	2.52	0.45
1:h4:71:ARG:H	2:EL:26:LEU:HD12	1.82	0.45
3:A5:194:ASN:HD22	4:BO:3:ARG:CB	2.12	0.45
5:E5:62:ARG:NH2	5:EN:17:PHE:HB2	2.32	0.45
1:A6:71:ARG:HD3	2:F6:30:MET:HG2	1.99	0.45
1:D6:98:ASN:ND2	1:D6:99:MET:N	2.65	0.45
1:D6:325:LYS:NZ	1:D6:325:LYS:CB	2.73	0.45
1:J6:372:VAL:HB	2:O6:11:MET:HB2	1.98	0.45
1:K6:19:LYS:NZ	1:K6:37:ASP:OD1	2.37	0.45
1:L6:98:ASN:ND2	1:L6:99:MET:N	2.64	0.45
1:T6:98:ASN:ND2	1:T6:99:MET:N	2.64	0.45
1:Z6:115:ARG:NH2	1:KE:300:TYR:CA	2.75	0.45
1:i6:33:TRP:HB3	1:BJ:174:MET:HG3	1.44	0.45
1:C7:302:ASP:CG	1:DP:29:TYR:CZ	2.83	0.45
1:B7:143:GLN:C	1:BP:82:ILE:HG12	2.42	0.45
1:D7:108:MET:CE	1:BP:367:PRO:HD2	2.47	0.45
1:J7:68:LEU:HD12	1:J7:161:SER:HB3	1.99	0.45
1:J7:372:VAL:HB	2:O7:11:MET:HB2	1.98	0.45
1:R7:90:VAL:HG12	1:QQ:64:ILE:HB	1.97	0.45
1:Y7:139:ARG:HB2	1:QQ:81:PHE:CE2	2.51	0.45
1:Z7:259:PHE:HD1	1:a7:259:PHE:CE2	2.32	0.45
2:f7:17:ASP:HB2	1:IR:357:LYS:CD	2.47	0.45
1:i7:46:PHE:HE1	1:C8:55:PHE:HE1	1.65	0.45
2:k7:26:LEU:HD12	1:SG:71:ARG:H	1.82	0.45
1:A8:64:ILE:CD1	1:B8:88:GLU:CG	2.93	0.45
1:T8:145:LEU:HD23	2:U8:16:GLU:HA	1.97	0.45
1:a8:260:GLN:HE21	1:a8:260:GLN:HA	1.82	0.45
2:c8:26:LEU:HD12	1:BR:71:ARG:H	1.82	0.45
1:h8:101:LEU:HD21	1:IQ:136:ASN:HD21	1.82	0.45
1:j8:108:MET:CE	1:BD:367:PRO:HD2	2.47	0.45
3:A9:67:ASN:HD21	2:MK:54:THR:HG21	1.81	0.45
5:D9:41:ASN:ND2	3:AB:11:GLU:O	2.50	0.45
5:F9:55:LEU:HD11	4:BB:32:PHE:HD2	1.64	0.45
5:DA:69:GLU:OE2	5:DA:73:ARG:NH2	2.46	0.45
5:CA:264:GLY:CA	5:NC:228:ARG:HH22	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:114:PHE:N	2:MD:21:ASN:C	2.74	0.45
3:AB:152:SER:N	1:AD:135:ASN:OD1	2.50	0.45
3:AB:155:GLU:H	1:AD:135:ASN:ND2	2.12	0.45
5:DB:41:ASN:ND2	3:AM:11:GLU:O	2.50	0.45
3:AC:37:GLU:HG3	3:AH:150:TYR:CD2	2.36	0.45
1:CD:346:ASP:OD1	1:CD:346:ASP:N	2.45	0.45
2:EE:44:GLN:HB3	2:EE:45:ILE:H	1.63	0.45
1:BE:105:GLU:OE1	1:BJ:110:LYS:HD3	2.17	0.45
1:BE:372:VAL:HB	2:IE:11:MET:HB2	1.98	0.45
1:BE:382:LYS:HG3	1:CP:33:TRP:HA	1.97	0.45
1:KE:81:PHE:CE2	1:QQ:139:ARG:HB2	2.51	0.45
1:NE:361:LYS:HE2	1:NE:377:HIS:HB2	1.98	0.45
1:aE:81:PHE:CE2	1:CG:139:ARG:HB2	2.51	0.45
4:BF:3:ARG:CB	3:AO:194:ASN:HD22	2.12	0.45
5:NF:320:ILE:HG23	5:NF:320:ILE:O	2.16	0.45
1:BG:71:ARG:H	2:UG:26:LEU:HD12	1.81	0.45
1:BG:362:PRO:HA	1:BG:363:PRO:HD3	1.79	0.45
1:DG:60:GLU:OE2	1:TR:351:LYS:NZ	2.43	0.45
1:KG:260:GLN:HE21	1:KG:260:GLN:HA	1.82	0.45
1:LG:179:SER:HG	1:LG:341:TYR:HH	1.57	0.45
1:TG:235:LEU:HD22	1:TG:264:ILE:HG21	1.99	0.45
1:YG:120:LEU:O	1:DK:37:ASP:N	2.47	0.45
1:YG:156:TYR:HE1	1:YG:360:LEU:HD11	1.81	0.45
5:FH:104:ILE:HA	5:FH:107:ASP:HB2	1.98	0.45
3:AI:11:GLU:O	5:DM:41:ASN:ND2	2.50	0.45
3:AI:114:PHE:CZ	2:FS:25:GLU:OE2	2.69	0.45
3:AI:231:LEU:HD21	3:AO:237:GLU:OE1	2.17	0.45
1:BJ:4:GLN:N	1:BJ:4:GLN:NE2	2.60	0.45
1:DJ:13:LEU:HD11	1:DJ:39:TRP:HA	1.97	0.45
1:DJ:109:LEU:HD22	1:KP:109:LEU:HD21	1.98	0.45
1:KJ:55:PHE:CG	1:AP:120:LEU:CD1	2.93	0.45
1:KJ:144:THR:H	1:AP:82:ILE:CG1	2.04	0.45
1:LJ:55:PHE:CD1	1:CS:120:LEU:CD1	2.79	0.45
1:LJ:209:GLN:NE2	1:LJ:235:LEU:HB3	2.32	0.45
1:BK:254:LYS:HE2	1:BK:254:LYS:HB2	1.75	0.45
1:CK:25:PHE:CZ	1:hR:126:VAL:HG23	2.52	0.45
1:CK:136:ASN:OD1	1:CK:137:ASP:N	2.48	0.45
1:DK:12:LEU:HG	1:DK:14:VAL:H	1.82	0.45
2:HK:54:THR:HA	2:kR:1:MET:HE1	1.96	0.45
1:LK:22:LEU:HD21	1:KP:48:THR:HA	1.94	0.45
1:LK:109:LEU:HD22	1:iR:106:GLU:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:68:LEU:HD12	1:AL:161:SER:HB3	1.99	0.45
1:BL:39:TRP:O	1:JL:222:SER:OG	2.33	0.45
1:IL:35:PHE:O	1:IQ:119:LYS:HD3	2.17	0.45
1:IL:360:LEU:HD22	2:fR:22:LYS:HG2	1.91	0.45
1:LL:235:LEU:HD22	1:LL:264:ILE:HG21	1.99	0.45
1:RL:89:TYR:HE2	1:QR:63:LEU:HD13	1.71	0.45
1:YL:35:PHE:O	1:QR:119:LYS:HD3	2.17	0.45
1:ZL:68:LEU:HD12	1:ZL:161:SER:HB3	1.99	0.45
5:CM:320:ILE:O	5:CM:321:ASP:HB2	2.17	0.45
3:AN:104:GLN:CB	2:MP:9:SER:CB	2.94	0.45
5:EN:140:ASP:O	5:CN:140:ASP:CA	2.65	0.45
5:CN:320:ILE:O	5:CN:321:ASP:HB2	2.17	0.45
5:NN:320:ILE:HG23	5:NN:320:ILE:O	2.16	0.45
3:AO:81:LEU:HD21	2:LS:55:GLY:CA	2.47	0.45
1:CP:357:LYS:HG2	2:HP:20:LEU:HD12	1.99	0.45
1:LP:209:GLN:NE2	1:LP:235:LEU:HB3	2.32	0.45
1:CQ:201:VAL:O	1:CQ:205:ILE:HG13	2.16	0.45
1:AQ:68:LEU:HD12	1:AQ:161:SER:HB3	1.99	0.45
1:LQ:98:ASN:ND2	1:LQ:99:MET:N	2.64	0.45
1:RQ:68:LEU:HD12	1:RQ:161:SER:HB3	1.99	0.45
1:SQ:150:ASN:ND2	2:NR:1:MET:N	2.61	0.45
1:TQ:235:LEU:HD22	1:TQ:264:ILE:HG21	1.99	0.45
1:YQ:265:ASP:OD1	1:YQ:265:ASP:N	2.48	0.45
1:cQ:71:ARG:HD3	2:gQ:30:MET:HG2	1.99	0.45
1:eQ:235:LEU:HD22	1:eQ:264:ILE:HG21	1.99	0.45
1:LR:179:SER:HG	1:LR:341:TYR:HH	1.58	0.45
1:QR:362:PRO:HA	1:QR:363:PRO:HD3	1.85	0.45
1:ZR:68:LEU:HD12	1:ZR:161:SER:HB3	1.99	0.45
1:jR:98:ASN:ND2	1:jR:99:MET:N	2.64	0.45
1:KS:24:ASP:OD1	1:KS:24:ASP:N	2.37	0.45
1:C1:81:PHE:CE2	1:Y8:139:ARG:HB2	2.51	0.45
1:C1:96:PRO:HD2	1:B1:166:LEU:HG	1.97	0.45
1:C1:136:ASN:HD21	1:J7:101:LEU:HD21	1.82	0.45
1:A1:68:LEU:HD12	1:A1:161:SER:HB3	1.98	0.45
1:A1:71:ARG:HD3	2:F1:30:MET:HG2	1.99	0.45
1:A1:101:LEU:HD21	1:f4:136:ASN:HD21	1.82	0.45
2:F1:11:MET:HB2	1:iG:372:VAL:HG11	1.99	0.45
1:R1:126:VAL:HG23	1:CJ:25:PHE:HZ	1.82	0.45
1:T1:368:GLU:CG	1:LJ:107:LEU:HD11	2.47	0.45
2:W1:2:TYR:CA	1:CS:150:ASN:OD1	2.64	0.45
1:X1:119:LYS:HD3	1:IR:35:PHE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y1:372:VAL:HB	2:d1:11:MET:HB2	1.98	0.45
1:f1:49:PHE:HD1	1:B3:22:LEU:HD11	1.81	0.45
1:f1:156:TYR:HE1	1:f1:360:LEU:HD11	1.81	0.45
4:B2:6:MET:HE3	5:F9:38:TYR:CE2	2.45	0.45
5:D2:51:ARG:CB	3:AF:6:ARG:CZ	2.93	0.45
5:E2:62:ARG:NH2	5:EB:17:PHE:HB2	2.32	0.45
5:O2:320:ILE:O	5:O2:321:ASP:HB2	2.17	0.45
1:A3:68:LEU:HD12	1:A3:161:SER:HB3	1.99	0.45
1:D3:98:ASN:ND2	1:D3:99:MET:N	2.64	0.45
1:K3:362:PRO:HA	1:K3:363:PRO:HD3	1.80	0.45
1:Q3:81:PHE:HZ	1:CR:136:ASN:O	1.99	0.45
1:Q3:139:ARG:CD	1:X4:81:PHE:CE2	2.71	0.45
1:Y3:145:LEU:HD23	2:Z3:16:GLU:HA	1.97	0.45
2:c3:40:SER:CB	1:g8:262:ALA:O	2.64	0.45
1:C4:262:ALA:O	2:ER:40:SER:CB	2.64	0.45
1:D4:361:LYS:HD3	1:D4:377:HIS:HD2	1.81	0.45
1:K4:150:ASN:ND2	2:VR:1:MET:N	2.61	0.45
1:Q4:81:PHE:CE2	1:IQ:139:ARG:HB2	2.51	0.45
1:R4:126:VAL:HG23	1:BS:25:PHE:HZ	1.82	0.45
1:h4:100:ASP:CB	1:CD:26:ASN:C	2.90	0.45
1:i4:143:GLN:CA	1:CD:82:ILE:HG12	2.46	0.45
2:j4:6:ASN:HA	1:CD:153:LEU:HD12	1.98	0.45
2:j4:11:MET:CE	1:CD:372:VAL:HG11	2.26	0.45
3:A5:183:ILE:HD11	3:A5:222:LEU:HD23	1.97	0.45
1:C6:96:PRO:HD2	1:B6:166:LEU:HG	1.97	0.45
1:C6:156:TYR:HE1	1:C6:360:LEU:HD11	1.81	0.45
1:A6:101:LEU:HD21	1:Y8:136:ASN:HD21	1.82	0.45
2:F6:11:MET:HB2	1:dQ:372:VAL:HG11	1.99	0.45
1:I6:54:LEU:HG	1:YR:116:MET:SD	2.56	0.45
1:I6:136:ASN:HD21	1:JL:101:LEU:HD21	1.82	0.45
1:K6:45:MET:HE1	1:CL:39:TRP:CE3	2.51	0.45
1:K6:71:ARG:H	2:kG:26:LEU:HD12	1.81	0.45
1:Q6:156:TYR:HE1	1:Q6:360:LEU:HD11	1.81	0.45
1:Q6:262:ALA:C	2:ZQ:40:SER:CB	2.89	0.45
2:U6:26:LEU:HD12	1:KG:71:ARG:H	1.82	0.45
1:Y6:108:MET:HG3	1:Y6:109:LEU:HD12	1.99	0.45
1:a6:22:LEU:HD11	1:SE:49:PHE:HD1	1.81	0.45
2:f6:53:PHE:O	1:KE:62:LEU:CD1	2.62	0.45
1:g6:321:VAL:HG22	1:g6:327:PHE:CE2	2.51	0.45
1:j6:145:LEU:HD23	2:k6:16:GLU:HA	1.97	0.45
1:C7:289:GLN:N	1:C7:326:GLU:OE2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:372:VAL:HB	2:G7:11:MET:HB2	1.98	0.45
2:H7:22:LYS:HG2	1:gR:360:LEU:HD22	1.91	0.45
1:I7:39:TRP:CE3	1:iR:45:MET:HE1	2.51	0.45
1:Q7:357:LYS:CD	2:XQ:17:ASP:HB2	2.46	0.45
1:S7:14:VAL:HG21	1:QR:14:VAL:HG23	1.94	0.45
1:a7:45:MET:HE1	1:KE:39:TRP:CE3	2.51	0.45
1:b7:98:ASN:ND2	1:b7:99:MET:N	2.65	0.45
1:b7:361:LYS:HD3	1:b7:377:HIS:HD2	1.81	0.45
1:i7:19:LYS:NZ	1:i7:37:ASP:OD1	2.37	0.45
1:j7:98:ASN:ND2	1:j7:99:MET:N	2.65	0.45
1:j7:361:LYS:HD3	1:j7:377:HIS:HD2	1.81	0.45
1:D8:98:ASN:ND2	1:D8:99:MET:N	2.65	0.45
1:L8:145:LEU:HD23	2:M8:16:GLU:HA	1.97	0.45
1:Q8:81:PHE:CE2	1:IG:139:ARG:HB2	2.51	0.45
1:R8:68:LEU:HD12	1:R8:161:SER:HB3	1.98	0.45
1:T8:361:LYS:HE2	1:T8:377:HIS:HB2	1.98	0.45
1:g8:27:HIS:CG	1:KS:312:PRO:CD	2.98	0.45
1:i8:21:ALA:CB	1:DD:47:GLU:O	2.58	0.45
3:A9:208:LYS:O	4:BC:250:ILE:CG1	2.57	0.45
3:A9:209:MET:HA	4:BC:250:ILE:CD1	2.34	0.45
5:E9:140:ASP:O	5:C9:140:ASP:CA	2.65	0.45
5:F9:55:LEU:HD11	4:BB:32:PHE:CG	2.34	0.45
3:AA:180:PHE:HE1	3:AA:224:SER:HB2	1.82	0.45
5:OA:320:ILE:O	5:OA:320:ILE:HG23	2.16	0.45
5:OA:320:ILE:O	5:OA:321:ASP:HB2	2.17	0.45
5:DB:45:TYR:OH	5:EF:40:THR:CG2	2.64	0.45
5:EB:62:ARG:NH2	5:EF:17:PHE:HB2	2.32	0.45
5:FB:55:LEU:HD11	4:BM:32:PHE:HD2	1.64	0.45
5:OB:320:ILE:HG23	5:OB:320:ILE:O	2.16	0.45
5:NC:320:ILE:O	5:NC:321:ASP:HB2	2.17	0.45
1:AD:163:ILE:HG22	1:KD:96:PRO:HG3	1.99	0.45
1:AD:297:LEU:HD21	1:KK:29:TYR:HE2	1.81	0.45
1:AD:355:TYR:CE2	1:KK:139:ARG:NH1	2.75	0.45
1:CD:136:ASN:OD1	1:CD:137:ASP:N	2.48	0.45
1:DD:174:MET:O	1:KS:35:PHE:CE1	2.65	0.45
1:DD:178:TYR:CB	1:KS:35:PHE:CZ	2.90	0.45
2:MD:8:ARG:CZ	1:KK:374:HIS:NE2	2.76	0.45
1:DE:98:ASN:ND2	1:DE:99:MET:N	2.65	0.45
1:AE:108:MET:HG3	1:AE:109:LEU:HD12	1.99	0.45
1:AE:321:VAL:HG22	1:AE:327:PHE:CE2	2.51	0.45
1:BE:71:ARG:HD3	2:HE:30:MET:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:186:THR:HG21	1:BE:214:LYS:HD2	1.98	0.45
1:FE:31:LYS:HB2	1:CP:314:GLY:O	2.15	0.45
1:UE:19:LYS:NZ	1:UE:37:ASP:OD1	2.37	0.45
1:VE:361:LYS:HE2	1:VE:377:HIS:HB2	1.98	0.45
2:fE:22:LYS:HD2	2:fE:22:LYS:HA	1.73	0.45
1:CG:172:ARG:HD2	1:CG:276:LEU:HD23	1.97	0.45
2:EG:40:SER:CB	1:QR:262:ALA:C	2.89	0.45
1:QG:208:LEU:HD11	1:QG:391:ILE:HD13	1.46	0.45
1:aG:143:GLN:C	1:BK:82:ILE:HG12	2.42	0.45
1:hG:68:LEU:HD12	1:hG:161:SER:HB3	1.99	0.45
1:hG:71:ARG:HD3	2:lG:30:MET:HG2	1.99	0.45
2:nG:17:ASP:HB2	1:CL:357:LYS:CD	2.46	0.45
4:BI:33:TYR:CE1	5:EM:57:GLU:HG2	2.49	0.45
1:AJ:92:MET:N	1:AJ:92:MET:SD	2.86	0.45
1:AJ:170:GLU:HG3	1:JS:32:SER:CB	2.45	0.45
1:DJ:222:SER:CB	1:LP:38:LYS:O	2.65	0.45
1:KJ:21:ALA:HB1	1:AP:123:ASN:HD22	1.73	0.45
1:KJ:28:ASP:CB	1:AP:304:GLN:HE21	1.94	0.45
1:KJ:29:TYR:HE2	1:AP:297:LEU:HD21	1.81	0.45
1:CK:25:PHE:HZ	1:hR:126:VAL:HG23	1.82	0.45
1:CK:240:ILE:HB	1:CK:344:ILE:HG22	1.99	0.45
1:KK:109:LEU:HD21	1:DP:109:LEU:HD22	1.98	0.45
1:LK:73:ASN:OD1	2:NK:26:LEU:N	2.50	0.45
1:BL:45:MET:HE1	1:YR:39:TRP:CE3	2.51	0.45
1:DL:82:ILE:HD13	1:DL:82:ILE:HA	1.85	0.45
1:QL:130:LYS:NZ	1:RR:110:LYS:O	2.41	0.45
1:QL:172:ARG:HD2	1:QL:276:LEU:HD23	1.97	0.45
1:RL:68:LEU:HD12	1:RL:161:SER:HB3	1.99	0.45
1:TL:98:ASN:ND2	1:TL:99:MET:N	2.65	0.45
1:YL:108:MET:HG3	1:YL:109:LEU:HD12	1.99	0.45
1:YL:156:TYR:HE1	1:YL:360:LEU:HD11	1.81	0.45
3:AM:180:PHE:HE1	3:AM:224:SER:HB2	1.82	0.45
3:AN:180:PHE:HE1	3:AN:224:SER:HB2	1.82	0.45
1:DP:12:LEU:HG	1:DP:14:VAL:H	1.82	0.45
1:CQ:116:MET:SD	1:gR:54:LEU:HG	2.56	0.45
1:CQ:156:TYR:HE1	1:CQ:360:LEU:HD11	1.81	0.45
1:JQ:68:LEU:HD12	1:JQ:161:SER:HB3	1.99	0.45
1:SQ:260:GLN:HE21	1:SQ:260:GLN:HA	1.82	0.45
1:ZR:168:GLU:OE2	1:aR:211:ASN:ND2	2.38	0.45
1:hR:372:VAL:HB	2:lR:11:MET:HB2	1.98	0.45
1:IS:209:GLN:HE22	1:IS:235:LEU:HB2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KS:92:MET:HE1	1:KS:117:ALA:HB2	1.98	0.45
1:KS:209:GLN:NE2	1:KS:235:LEU:HB3	2.32	0.45
1:C1:81:PHE:HZ	1:Y8:136:ASN:O	1.99	0.45
1:C1:139:ARG:HB2	1:bQ:81:PHE:CE2	2.51	0.45
1:C1:156:TYR:HE1	1:C1:360:LEU:HD11	1.81	0.45
1:B1:372:VAL:HG11	2:c4:11:MET:HB2	1.99	0.45
1:D1:98:ASN:ND2	1:D1:99:MET:N	2.65	0.45
1:L1:98:ASN:ND2	1:L1:99:MET:N	2.65	0.45
1:Q1:55:PHE:HE1	1:KG:46:PHE:HE1	1.65	0.45
1:R1:68:LEU:HD12	1:R1:161:SER:HB3	1.99	0.45
1:S1:71:ARG:H	2:M3:26:LEU:HD12	1.81	0.45
1:T1:29:TYR:HB3	1:CJ:315:ALA:HB1	1.98	0.45
1:T1:49:PHE:HB3	1:BJ:137:ASP:OD2	2.16	0.45
2:U1:22:LYS:HA	2:U1:22:LYS:HD2	1.73	0.45
2:W1:17:ASP:HB2	1:Q6:357:LYS:CD	2.46	0.45
1:X1:54:LEU:HG	1:I8:116:MET:SD	2.56	0.45
1:X1:116:MET:SD	1:IR:54:LEU:HG	2.56	0.45
2:c1:11:MET:HB2	1:aR:372:VAL:HG11	1.99	0.45
1:f1:96:PRO:HD2	1:h1:166:LEU:HG	1.97	0.45
1:i1:361:LYS:HE2	1:i1:377:HIS:HB2	1.98	0.45
4:B2:244:LYS:CB	3:AF:212:MET:HE2	2.33	0.45
5:E2:64:TRP:CG	4:BF:30:LEU:HB3	2.49	0.45
1:C3:357:LYS:CD	2:n7:17:ASP:HB2	2.46	0.45
1:B3:71:ARG:H	2:EQ:26:LEU:HD12	1.82	0.45
1:I3:108:MET:HG3	1:I3:109:LEU:HD12	1.99	0.45
1:J3:68:LEU:HD12	1:J3:161:SER:HB3	1.98	0.45
1:Q3:39:TRP:CE3	1:Z4:45:MET:HE1	2.51	0.45
1:S3:71:ARG:H	2:eE:26:LEU:HD12	1.82	0.45
1:C4:14:VAL:HG21	1:BG:14:VAL:HG23	1.96	0.45
1:C4:136:ASN:HD21	1:ZL:101:LEU:HD21	1.82	0.45
1:Q4:35:PHE:O	1:IL:119:LYS:HD3	2.17	0.45
1:Q4:156:TYR:HE1	1:Q4:360:LEU:HD11	1.81	0.45
1:Q4:361:LYS:HZ2	1:IQ:370:ASP:CG	2.24	0.45
1:R4:126:VAL:HG23	1:BS:25:PHE:CZ	2.52	0.45
1:R4:186:THR:HG21	1:R4:214:LYS:HD2	1.98	0.45
1:X4:35:PHE:O	1:CR:119:LYS:HD3	2.17	0.45
1:f4:136:ASN:O	1:C6:81:PHE:HZ	1.99	0.45
1:f4:139:ARG:HB2	1:C6:81:PHE:CE2	2.51	0.45
1:g4:98:ASN:HD22	1:DK:30:SER:HB3	1.81	0.45
1:g4:372:VAL:HB	2:k4:11:MET:HB2	1.98	0.45
3:A5:149:GLN:OE1	1:AJ:146:ALA:N	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A5:231:LEU:HD21	3:AI:237:GLU:OE1	2.17	0.45
4:B5:30:LEU:HB3	5:EO:64:TRP:CG	2.50	0.45
1:C6:136:ASN:HD21	1:AL:101:LEU:HD21	1.82	0.45
1:C6:139:ARG:HB2	1:gG:81:PHE:CE2	2.51	0.45
1:A6:68:LEU:HD12	1:A6:161:SER:HB3	1.98	0.45
1:B6:372:VAL:HG11	2:dG:11:MET:HB2	1.99	0.45
1:K6:362:PRO:HA	1:K6:363:PRO:HD3	1.79	0.45
1:R6:372:VAL:HB	2:W6:11:MET:HB2	1.98	0.45
1:S6:260:GLN:HE21	1:S6:260:GLN:HA	1.82	0.45
2:V6:1:MET:N	1:KG:150:ASN:ND2	2.61	0.45
1:Z6:71:ARG:HD3	2:d6:30:MET:HG2	1.99	0.45
1:Z6:186:THR:HG21	1:Z6:214:LYS:HD2	1.98	0.45
1:Z6:372:VAL:HB	2:e6:11:MET:HB2	1.98	0.45
1:i6:47:GLU:CB	1:DJ:20:SER:CB	2.89	0.45
1:i6:143:GLN:C	1:BJ:82:ILE:HG12	2.42	0.45
1:j6:361:LYS:HE2	1:j6:377:HIS:HB2	1.98	0.45
2:F7:11:MET:HB2	1:BQ:372:VAL:HG11	1.99	0.45
1:K7:45:MET:HE1	1:CQ:39:TRP:CE3	2.51	0.45
1:K7:260:GLN:HE21	1:K7:260:GLN:HA	1.82	0.45
1:R7:101:LEU:HD21	1:Y7:136:ASN:HD21	1.82	0.45
2:U7:40:SER:CB	1:KE:262:ALA:O	2.64	0.45
1:Z7:64:ILE:CD1	1:a7:88:GLU:CG	2.93	0.45
1:a7:22:LEU:HD11	1:KE:49:PHE:HD1	1.81	0.45
1:g7:14:VAL:HG21	1:CE:14:VAL:HG23	1.96	0.45
1:i7:14:VAL:HG23	1:C8:14:VAL:HG21	1.96	0.45
1:j7:361:LYS:HE2	1:j7:377:HIS:HB2	1.98	0.45
1:A8:186:THR:HG21	1:A8:214:LYS:HD2	1.98	0.45
1:I8:139:ARG:HB2	1:IR:81:PHE:CE2	2.51	0.45
1:Q8:108:MET:HG3	1:Q8:109:LEU:HD12	1.99	0.45
1:Q8:362:PRO:HA	1:Q8:363:PRO:HD3	1.84	0.45
2:U8:26:LEU:HD12	1:SL:71:ARG:H	1.81	0.45
1:a8:46:PHE:HE1	1:bQ:55:PHE:HE1	1.65	0.45
1:a8:129:GLN:NE2	1:a8:159:LYS:O	2.41	0.45
2:c8:40:SER:CB	1:CR:262:ALA:C	2.89	0.45
1:i8:33:TRP:HB3	1:BD:174:MET:HG3	1.44	0.45
3:A9:11:GLU:O	5:EA:40:THR:OG1	2.30	0.45
5:O9:320:ILE:HG23	5:O9:320:ILE:O	2.16	0.45
3:AB:163:GLU:HG3	3:AF:175:ILE:HD11	1.99	0.45
5:EB:64:TRP:CG	4:BM:30:LEU:HB3	2.50	0.45
5:FB:29:THR:HA	3:AF:9:ASN:CB	2.46	0.45
5:EC:140:ASP:O	5:CC:140:ASP:CA	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:253:THR:O	1:AD:257:ASN:HB2	2.16	0.45
1:DD:51:ASN:HB3	1:DD:54:LEU:HD23	1.99	0.45
1:KD:32:SER:OG	1:IS:170:GLU:HG3	2.17	0.45
1:KD:159:LYS:HE2	1:KD:159:LYS:HB3	1.73	0.45
1:KD:263:GLY:O	2:MD:39:ASP:N	2.48	0.45
1:LD:39:TRP:HB2	1:DK:120:LEU:HB3	1.99	0.45
1:DE:361:LYS:HD3	1:DE:377:HIS:HD2	1.81	0.45
1:BE:174:MET:CG	1:CP:33:TRP:CG	2.97	0.45
1:CE:100:ASP:CB	1:CP:26:ASN:C	2.90	0.45
1:NE:145:LEU:HD23	2:OE:16:GLU:HA	1.97	0.45
1:UE:71:ARG:H	2:MG:26:LEU:HD12	1.82	0.45
1:VE:98:ASN:ND2	1:VE:99:MET:N	2.65	0.45
2:ZE:17:ASP:HB2	1:IQ:357:LYS:CD	2.46	0.45
1:aE:262:ALA:C	2:cL:40:SER:CB	2.89	0.45
1:aE:357:LYS:CD	2:HR:17:ASP:HB2	2.46	0.45
5:NF:230:SER:C	5:CM:266:THR:CB	2.89	0.45
1:AG:186:THR:HG21	1:AG:214:LYS:HD2	1.98	0.45
1:BG:260:GLN:HE21	1:BG:260:GLN:HA	1.82	0.45
1:aG:372:VAL:CG1	2:EK:11:MET:HB2	2.46	0.45
3:AH:9:ASN:CB	5:FN:29:THR:HA	2.46	0.45
3:AH:37:GLU:HG3	3:AN:150:TYR:CD2	2.36	0.45
3:AH:180:PHE:HE1	3:AH:224:SER:HB2	1.82	0.45
5:OH:320:ILE:O	5:OH:321:ASP:HB2	2.17	0.45
5:DI:95:TRP:HE3	5:DI:100:THR:HG21	1.82	0.45
1:DJ:162:ASP:N	1:DJ:162:ASP:OD1	2.49	0.45
1:KJ:32:SER:OG	1:AP:170:GLU:HG3	2.17	0.45
1:KJ:47:GLU:CD	1:LP:22:LEU:HD23	2.38	0.45
1:KJ:149:THR:HG23	2:MP:15:TYR:HB3	1.97	0.45
1:LJ:39:TRP:HB2	1:CS:120:LEU:HB3	1.99	0.45
2:MJ:8:ARG:CZ	1:JS:374:HIS:NE2	2.76	0.45
1:BK:240:ILE:HB	1:BK:344:ILE:HG22	1.99	0.45
1:CK:314:GLY:O	1:jR:31:LYS:HB2	2.15	0.45
1:KK:263:GLY:O	2:MK:39:ASP:N	2.48	0.45
1:LK:31:LYS:CG	1:DP:315:ALA:N	2.57	0.45
1:LK:107:LEU:HD11	1:jR:368:GLU:CG	2.47	0.45
2:MK:8:ARG:CZ	1:KP:374:HIS:NE2	2.76	0.45
1:BL:71:ARG:H	2:ML:26:LEU:HD12	1.81	0.45
1:BL:150:ASN:ND2	2:NL:1:MET:N	2.61	0.45
1:BL:260:GLN:HA	1:BL:260:GLN:HE21	1.82	0.45
1:IL:49:PHE:HD1	1:KQ:22:LEU:HD11	1.81	0.45
1:IL:96:PRO:HD2	1:KL:166:LEU:HG	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IL:300:TYR:CA	1:ZR:115:ARG:NH2	2.75	0.45
1:RL:85:TYR:HE2	1:QR:46:PHE:CD1	2.31	0.45
2:XL:17:ASP:HB2	1:QR:357:LYS:CD	2.46	0.45
1:YL:184:SER:OG	1:YL:185:GLU:N	2.50	0.45
1:ZL:71:ARG:HD3	2:dL:30:MET:HG2	1.99	0.45
1:ZL:372:VAL:HB	2:eL:11:MET:HB2	1.98	0.45
3:AM:79:MET:HE2	3:AM:79:MET:HB3	1.81	0.45
5:FN:104:ILE:HA	5:FN:107:ASP:HB2	1.98	0.45
3:AO:180:PHE:HE1	3:AO:224:SER:HB2	1.82	0.45
1:KP:197:LEU:HD21	1:KP:342:ALA:HB2	1.98	0.45
1:IQ:108:MET:HG3	1:IQ:109:LEU:HD12	1.99	0.45
1:KQ:71:ARG:H	2:cR:26:LEU:HD12	1.82	0.45
1:YQ:235:LEU:HD22	1:YQ:264:ILE:HG21	1.99	0.45
1:cQ:68:LEU:HD12	1:cQ:161:SER:HB3	1.99	0.45
1:JR:186:THR:HG21	1:JR:214:LYS:HD2	1.98	0.45
1:QR:156:TYR:HE1	1:QR:360:LEU:HD11	1.81	0.45
1:RR:372:VAL:HB	2:WR:11:MET:HB2	1.98	0.45
1:YR:156:TYR:HE1	1:YR:360:LEU:HD11	1.81	0.45
2:MS:34:THR:HA	2:MS:36:LYS:HG2	1.99	0.45
1:C1:208:LEU:CD1	1:C1:391:ILE:HD12	1.95	0.45
1:C1:300:TYR:CA	1:A6:115:ARG:NH2	2.75	0.45
1:A1:115:ARG:NH2	1:C6:300:TYR:CA	2.75	0.45
1:D1:325:LYS:NZ	1:D1:325:LYS:CB	2.73	0.45
2:H1:17:ASP:HB2	1:C6:357:LYS:CD	2.47	0.45
1:J1:186:THR:HG21	1:J1:214:LYS:HD2	1.98	0.45
2:M1:26:LEU:HD12	1:S8:71:ARG:H	1.82	0.45
1:Q1:39:TRP:CE3	1:KG:45:MET:HE1	2.51	0.45
1:Q1:172:ARG:HD2	1:Q1:276:LEU:HD23	1.97	0.45
1:R1:186:THR:HG21	1:R1:214:LYS:HD2	1.98	0.45
1:T1:98:ASN:ND2	1:T1:99:MET:N	2.65	0.45
1:X1:289:GLN:N	1:X1:326:GLU:OE2	2.46	0.45
1:Z1:46:PHE:HE1	1:IR:55:PHE:HE1	1.65	0.45
1:Z1:372:VAL:HG11	2:d7:11:MET:HB2	1.99	0.45
1:f1:119:LYS:HD3	1:QG:35:PHE:O	2.17	0.45
1:g1:168:GLU:OE2	1:h1:211:ASN:ND2	2.38	0.45
2:j1:26:LEU:HD12	1:K7:71:ARG:H	1.81	0.45
3:A2:6:ARG:CZ	5:DA:51:ARG:CB	2.93	0.45
1:C3:108:MET:HG3	1:C3:109:LEU:HD12	1.99	0.45
1:C3:321:VAL:HG22	1:C3:327:PHE:CE2	2.51	0.45
1:I3:46:PHE:HD1	1:R8:85:TYR:OH	1.87	0.45
1:J3:372:VAL:HB	2:O3:11:MET:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K3:71:ARG:H	2:E8:26:LEU:HD12	1.82	0.45
1:Q3:156:TYR:HE1	1:Q3:360:LEU:HD11	1.81	0.45
1:T3:145:LEU:HD23	2:U3:16:GLU:HA	1.97	0.45
1:C4:39:TRP:CE3	1:BG:45:MET:HE1	2.51	0.45
1:C4:54:LEU:HG	1:CG:116:MET:SD	2.56	0.45
1:C4:300:TYR:CA	1:RG:115:ARG:NH2	2.75	0.45
1:D4:98:ASN:ND2	1:D4:99:MET:N	2.65	0.45
1:I4:184:SER:OG	1:I4:185:GLU:N	2.50	0.45
1:K4:45:MET:HE1	1:QL:39:TRP:CE3	2.51	0.45
1:K4:46:PHE:HE1	1:QL:55:PHE:HE1	1.65	0.45
1:L4:179:SER:HG	1:L4:341:TYR:HH	1.57	0.45
2:M4:26:LEU:HD12	1:i7:71:ARG:H	1.82	0.45
2:N4:11:MET:HB2	1:i7:372:VAL:HG11	1.99	0.45
1:a4:98:ASN:ND2	1:a4:99:MET:N	2.65	0.45
1:f4:321:VAL:HG22	1:f4:327:PHE:CE2	2.51	0.45
1:f4:362:PRO:HA	1:f4:363:PRO:HD3	1.85	0.45
1:h4:46:PHE:HE1	1:gG:55:PHE:HE1	1.65	0.45
2:l4:17:ASP:HB2	1:YG:357:LYS:CD	2.47	0.45
3:A5:175:ILE:HD11	3:AI:163:GLU:HG3	1.99	0.45
5:D5:26:GLU:CG	5:FN:27:ARG:HH11	2.27	0.45
5:D5:45:TYR:OH	5:EN:40:THR:CG2	2.64	0.45
5:C5:266:THR:CB	5:NI:230:SER:C	2.89	0.45
1:A6:362:PRO:HA	1:A6:363:PRO:HD3	1.83	0.45
1:I6:81:PHE:HE2	1:CL:139:ARG:HD2	1.63	0.45
1:I6:119:LYS:HD3	1:CL:35:PHE:O	2.17	0.45
1:J6:101:LEU:HD21	1:IR:136:ASN:HD21	1.82	0.45
1:K6:260:GLN:HE21	1:K6:260:GLN:HA	1.82	0.45
2:N6:22:LYS:HD2	2:N6:22:LYS:HA	1.73	0.45
1:R6:186:THR:HG21	1:R6:214:LYS:HD2	1.98	0.45
1:Y6:321:VAL:HG22	1:Y6:327:PHE:CE2	2.51	0.45
1:Z6:68:LEU:HD12	1:Z6:161:SER:HB3	1.99	0.45
1:Z6:362:PRO:HA	1:Z6:363:PRO:HD3	1.83	0.45
1:g6:32:SER:HB2	1:LP:174:MET:CE	2.47	0.45
1:g6:262:ALA:O	2:hL:40:SER:CB	2.64	0.45
1:C7:63:LEU:HD13	1:hR:89:TYR:HE2	1.71	0.45
1:I7:139:ARG:HD2	1:gR:81:PHE:HE2	1.63	0.45
2:M7:45:ILE:HG13	2:M7:46:HIS:HB3	1.99	0.45
1:Y7:116:MET:SD	1:KE:54:LEU:HG	2.56	0.45
1:Z7:101:LEU:HD21	1:I8:136:ASN:HD21	1.82	0.45
1:g7:39:TRP:CE3	1:CE:45:MET:HE1	2.51	0.45
1:i7:45:MET:HE1	1:C8:39:TRP:CE3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J8:372:VAL:HB	2:O8:11:MET:HB2	1.98	0.45
1:R8:372:VAL:HB	2:W8:11:MET:HB2	1.98	0.45
2:d8:1:MET:N	1:BR:150:ASN:ND2	2.61	0.45
1:j8:98:ASN:ND2	1:j8:99:MET:N	2.65	0.45
1:j8:361:LYS:HD3	1:j8:377:HIS:HD2	1.81	0.45
3:A9:6:ARG:CZ	5:DC:51:ARG:CB	2.93	0.45
5:N9:320:ILE:O	5:N9:321:ASP:HB2	2.17	0.45
5:FB:104:ILE:HA	5:FB:107:ASP:HB2	1.98	0.45
3:AC:231:LEU:HD21	3:AH:237:GLU:OE1	2.17	0.45
5:EC:17:PHE:HB2	5:EH:62:ARG:NH2	2.32	0.45
1:AD:316:VAL:HG13	1:KK:31:LYS:HA	1.99	0.45
1:CD:254:LYS:HE2	1:CD:254:LYS:HB2	1.76	0.45
1:DD:284:LYS:HE2	1:DD:330:ASN:HB3	1.99	0.45
2:ED:8:ARG:HG3	2:ED:12:GLY:HA3	1.98	0.45
7:ID:13:ALA:HB3	1:LD:192:THR:HB	1.98	0.45
1:KD:29:TYR:OH	1:IS:297:LEU:HD12	2.00	0.45
1:LD:54:LEU:CA	1:DK:118:THR:OG1	2.55	0.45
1:LD:123:ASN:ND2	1:YG:140:PHE:CZ	2.81	0.45
1:LD:315:ALA:HB2	1:YG:30:SER:CA	2.44	0.45
1:LD:372:VAL:HG21	2:FK:10:MET:CB	2.32	0.45
1:BE:87:GLU:OE1	1:CP:55:PHE:CB	2.65	0.45
1:KE:321:VAL:HG22	1:KE:327:PHE:CE2	2.51	0.45
1:UE:372:VAL:HG11	2:NG:11:MET:HB2	1.99	0.45
1:cE:372:VAL:HG11	2:dL:11:MET:HB2	1.99	0.45
3:AF:180:PHE:HE1	3:AF:224:SER:HB2	1.82	0.45
1:CG:46:PHE:CD1	1:ZL:85:TYR:HE2	2.31	0.45
1:DG:98:ASN:ND2	1:DG:99:MET:N	2.65	0.45
1:DG:235:LEU:HD22	1:DG:264:ILE:HG21	1.99	0.45
1:IG:184:SER:OG	1:IG:185:GLU:N	2.50	0.45
1:RG:186:THR:HG21	1:RG:214:LYS:HD2	1.98	0.45
1:bG:98:ASN:ND2	1:bG:99:MET:N	2.65	0.45
5:EH:136:SER:O	5:EH:140:ASP:N	2.50	0.45
5:OI:320:ILE:O	5:OI:320:ILE:HG23	2.16	0.45
1:BJ:240:ILE:HB	1:BJ:344:ILE:HG22	1.99	0.45
1:KJ:289:GLN:HB2	1:KJ:326:GLU:OE2	2.17	0.45
2:NJ:11:MET:HA	2:NJ:15:TYR:HB2	1.98	0.45
2:NJ:20:LEU:HB2	2:NJ:23:ARG:NH1	2.31	0.45
1:AK:91:ILE:HG13	1:LK:158:LYS:HD2	1.99	0.45
1:BK:213:ALA:HB1	1:BK:228:GLN:HB2	1.99	0.45
1:DK:51:ASN:HB3	1:DK:54:LEU:HD23	1.99	0.45
2:NK:20:LEU:HB2	2:NK:23:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LL:361:LYS:HE2	1:LL:377:HIS:HB2	1.98	0.45
1:RL:101:LEU:HD21	1:YL:136:ASN:HD21	1.82	0.45
2:VL:22:LYS:HA	2:VL:22:LYS:HD2	1.73	0.45
1:bL:235:LEU:HD22	1:bL:264:ILE:HG21	1.99	0.45
5:DM:28:TYR:HE2	1:IS:140:PHE:HB3	1.82	0.45
5:NM:271:GLN:O	5:NM:274:LEU:HD12	2.17	0.45
5:OM:271:GLN:O	5:OM:274:LEU:HD12	2.17	0.45
3:AO:254:LEU:HD12	3:AO:254:LEU:HA	1.80	0.45
1:AP:335:LYS:NZ	1:AP:336:PRO:O	2.37	0.45
1:BP:240:ILE:HB	1:BP:344:ILE:HG22	1.99	0.45
1:DP:30:SER:HB3	1:hR:98:ASN:HD22	1.81	0.45
1:SQ:71:ARG:H	2:MR:26:LEU:HD12	1.81	0.45
1:YQ:98:ASN:ND2	1:YQ:99:MET:N	2.65	0.45
2:fQ:26:LEU:HD12	1:iR:71:ARG:H	1.81	0.45
1:AR:64:ILE:CD1	1:BR:88:GLU:CG	2.93	0.45
1:RR:186:THR:HG21	1:RR:214:LYS:HD2	1.98	0.45
1:SR:260:GLN:HE21	1:SR:260:GLN:HA	1.82	0.45
1:gR:184:SER:OG	1:gR:185:GLU:N	2.50	0.45
1:iR:260:GLN:HE21	1:iR:260:GLN:HA	1.82	0.45
1:C1:357:LYS:CD	2:H6:17:ASP:HB2	2.47	0.45
1:D1:159:LYS:NZ	1:jG:94:THR:OG1	2.34	0.45
2:P1:17:ASP:HB2	1:IG:357:LYS:CD	2.46	0.45
1:Q1:119:LYS:HD3	1:Q8:35:PHE:O	2.17	0.45
1:R1:90:VAL:HG12	1:Q6:64:ILE:HB	1.97	0.45
1:R1:203:GLU:HB3	1:Q6:248:SER:OG	2.17	0.45
1:R1:222:SER:CB	1:CJ:38:LYS:C	2.88	0.45
1:S1:372:VAL:HG11	2:N3:11:MET:HB2	1.99	0.45
1:X1:35:PHE:O	1:I8:119:LYS:HD3	2.17	0.45
1:X1:136:ASN:HD21	1:R3:101:LEU:HD21	1.82	0.45
1:Z1:260:GLN:HE21	1:Z1:260:GLN:HA	1.82	0.45
1:a1:145:LEU:HD23	2:b1:16:GLU:HA	1.98	0.45
1:f1:360:LEU:HD22	2:HQ:22:LYS:HG2	1.91	0.45
3:A2:258:LYS:HE3	3:AB:311:ILE:CD1	2.47	0.45
3:A2:311:ILE:CD1	3:A9:258:LYS:HE3	2.47	0.45
5:E2:38:TYR:HB2	5:D9:45:TYR:CE2	2.50	0.45
5:E2:136:SER:O	5:E2:140:ASP:N	2.50	0.45
1:C3:248:SER:OG	1:h7:203:GLU:HB3	2.17	0.45
2:F3:11:MET:HB2	1:CE:372:VAL:HG11	1.99	0.45
1:I3:35:PHE:O	1:QL:119:LYS:HD3	2.17	0.45
1:I3:156:TYR:HE1	1:I3:360:LEU:HD11	1.81	0.45
1:Q3:289:GLN:N	1:Q3:326:GLU:OE2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R3:68:LEU:HD12	1:R3:161:SER:HB3	1.99	0.45
1:R3:372:VAL:HB	2:W3:11:MET:HB2	1.98	0.45
2:V3:1:MET:H3	1:KR:150:ASN:HD21	1.61	0.45
1:C4:81:PHE:HE2	1:aE:139:ARG:HD2	1.63	0.45
1:Q4:14:VAL:HG21	1:KL:14:VAL:HG23	1.96	0.45
1:R4:73:ASN:HB2	1:R4:354:ARG:HH22	1.82	0.45
1:R4:87:GLU:OE1	1:BS:55:PHE:CB	2.65	0.45
1:R4:115:ARG:NH2	1:g8:300:TYR:CA	2.75	0.45
1:R4:372:VAL:HB	2:V4:11:MET:HB2	1.98	0.45
2:U4:11:MET:HG2	1:BS:133:LEU:HB2	1.95	0.45
1:X4:139:ARG:HB2	1:CR:81:PHE:CE2	2.51	0.45
1:X4:357:LYS:CD	2:f8:17:ASP:HB2	2.47	0.45
1:Y4:89:TYR:HE2	1:Y8:63:LEU:HD13	1.71	0.45
2:e4:17:ASP:HB2	1:Y8:357:LYS:CD	2.46	0.45
2:e4:53:PHE:O	1:Y8:62:LEU:CD1	2.62	0.45
1:f4:62:LEU:CD1	2:fG:53:PHE:O	2.62	0.45
1:g4:87:GLU:OE1	1:CD:55:PHE:CB	2.65	0.45
1:g4:126:VAL:HG23	1:CD:25:PHE:HZ	1.82	0.45
3:A5:69:VAL:HG13	3:A5:80:ILE:HB	1.99	0.45
3:A5:237:GLU:OE1	3:AN:231:LEU:HD21	2.17	0.45
5:E5:64:TRP:CG	4:BH:30:LEU:HB3	2.49	0.45
5:F5:55:LEU:HD11	4:BH:32:PHE:CG	2.34	0.45
1:C6:14:VAL:HG23	1:iG:14:VAL:HG23	1.97	0.45
1:C6:49:PHE:HD1	1:iG:22:LEU:HD11	1.81	0.45
1:I6:108:MET:HG3	1:I6:109:LEU:HD12	1.99	0.45
1:I6:184:SER:OG	1:I6:185:GLU:N	2.50	0.45
1:L6:145:LEU:HD23	2:M6:16:GLU:HA	1.98	0.45
1:Q6:32:SER:HB2	1:LJ:174:MET:CE	2.47	0.45
1:Q6:37:ASP:O	1:LJ:119:LYS:NZ	2.49	0.45
1:Y6:136:ASN:HD21	1:JG:101:LEU:HD21	1.82	0.45
1:a6:45:MET:HE1	1:SE:39:TRP:CE3	2.51	0.45
1:b6:361:LYS:HE2	1:b6:377:HIS:HB2	1.98	0.45
2:f6:55:GLY:HA3	2:PR:2:TYR:HB2	1.94	0.45
1:C7:32:SER:HB2	1:LK:174:MET:CE	2.47	0.45
1:B7:260:GLN:HE21	1:B7:260:GLN:HA	1.82	0.45
1:I7:35:PHE:O	1:gR:119:LYS:HD3	2.17	0.45
1:Q7:35:PHE:O	1:YL:119:LYS:HD3	2.17	0.45
1:Q7:360:LEU:HD22	2:XQ:22:LYS:HG2	1.91	0.45
1:S7:45:MET:HE1	1:QR:39:TRP:CE3	2.51	0.45
1:a7:20:SER:HB2	1:KE:47:GLU:H	1.80	0.45
1:g7:108:MET:HG3	1:g7:109:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I8:184:SER:OG	1:I8:185:GLU:N	2.50	0.45
2:V8:11:MET:HB2	1:SL:372:VAL:HG11	1.99	0.45
1:Y8:321:VAL:HG22	1:Y8:327:PHE:CE2	2.51	0.45
1:Z8:372:VAL:HB	2:e8:11:MET:HB2	1.98	0.45
2:c8:45:ILE:HG13	2:c8:46:HIS:HB3	1.99	0.45
2:c8:45:ILE:CG1	2:c8:46:HIS:H	2.23	0.45
1:g8:37:ASP:O	1:KS:119:LYS:NZ	2.49	0.45
1:g8:111:ARG:HG3	1:CD:105:GLU:CG	2.46	0.45
1:g8:184:SER:OG	1:g8:185:GLU:N	2.50	0.45
1:h8:186:THR:HG21	1:h8:214:LYS:HD2	1.98	0.45
1:i8:260:GLN:HE21	1:i8:260:GLN:HA	1.82	0.45
1:j8:304:GLN:NE2	1:LL:98:ASN:O	2.48	0.45
3:A9:151:ASN:HA	1:AK:143:GLN:O	2.17	0.45
5:N9:271:GLN:O	5:N9:274:LEU:HD12	2.17	0.45
5:O9:271:GLN:O	5:O9:274:LEU:HD12	2.17	0.45
3:AA:175:ILE:HD11	3:AC:163:GLU:HG3	1.99	0.45
4:BA:30:LEU:HB3	5:EH:64:TRP:CG	2.49	0.45
3:AB:153:ASP:OD1	3:AB:153:ASP:C	2.59	0.45
5:CB:271:GLN:O	5:CB:274:LEU:HD12	2.17	0.45
1:AD:82:ILE:CD1	1:KK:144:THR:H	2.29	0.45
1:AD:144:THR:HG22	3:AF:36:LEU:CD2	2.46	0.45
1:CD:55:PHE:HB3	1:YG:58:ILE:HD13	1.98	0.45
1:DD:222:SER:CB	1:KS:38:LYS:O	2.65	0.45
1:KD:144:THR:H	1:IS:82:ILE:CD1	2.29	0.45
1:KD:372:VAL:C	2:LS:11:MET:CE	2.77	0.45
1:LD:92:MET:HE1	1:LD:117:ALA:HB2	1.98	0.45
1:LD:157:LYS:CE	2:FK:2:TYR:OH	2.63	0.45
1:LD:312:PRO:HG3	1:YG:27:HIS:CB	2.42	0.45
1:LD:349:SER:O	1:LD:385:SER:N	2.38	0.45
2:MD:15:TYR:HB3	1:KK:149:THR:HG23	1.97	0.45
1:KE:81:PHE:HZ	1:QQ:136:ASN:O	1.99	0.45
1:LE:71:ARG:HD3	2:PE:30:MET:HG2	1.99	0.45
1:SE:108:MET:HG3	1:SE:109:LEU:HD12	1.99	0.45
1:aE:108:MET:HG3	1:aE:109:LEU:HD12	1.99	0.45
1:aE:136:ASN:HD21	1:RG:101:LEU:HD21	1.82	0.45
1:cE:22:LEU:HD11	1:CG:49:PHE:HD1	1.81	0.45
5:CF:271:GLN:O	5:CF:274:LEU:HD12	2.17	0.45
1:CG:108:MET:HG3	1:CG:109:LEU:HD12	1.99	0.45
1:LG:235:LEU:HD22	1:LG:264:ILE:HG21	1.99	0.45
1:QG:156:TYR:HE1	1:QG:360:LEU:HD11	1.81	0.45
1:QG:201:VAL:O	1:QG:205:ILE:HG13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RG:73:ASN:HB2	1:RG:354:ARG:HH22	1.82	0.45
1:TG:145:LEU:HD23	2:UG:16:GLU:HA	1.97	0.45
1:gG:289:GLN:N	1:gG:326:GLU:OE2	2.46	0.45
1:iG:260:GLN:HE21	1:iG:260:GLN:HA	1.82	0.45
3:AH:150:TYR:CE1	1:AP:145:LEU:HD13	2.52	0.45
4:BI:141:THR:OG1	4:BI:196:SER:OG	2.34	0.45
5:CI:320:ILE:O	5:CI:321:ASP:HB2	2.17	0.45
1:AJ:170:GLU:HG3	1:JS:32:SER:OG	2.17	0.45
1:BJ:213:ALA:HB1	1:BJ:228:GLN:HB2	1.99	0.45
1:CJ:240:ILE:HB	1:CJ:344:ILE:HG22	1.99	0.45
1:DJ:222:SER:CB	1:LP:38:LYS:C	2.81	0.45
1:LJ:92:MET:HE1	1:LJ:117:ALA:HB2	1.98	0.45
1:LJ:173:ALA:HB2	1:LJ:279:VAL:HG11	1.98	0.45
1:LJ:281:LYS:NZ	1:LJ:313:VAL:O	2.45	0.45
1:AK:82:ILE:CD1	1:KP:144:THR:H	2.29	0.45
1:AK:347:ILE:HD12	1:AK:347:ILE:HA	1.92	0.45
1:AK:362:PRO:HA	1:AK:363:PRO:HD3	1.86	0.45
1:BK:244:ASP:N	1:BK:244:ASP:OD1	2.50	0.45
1:LK:24:ASP:OD2	1:DP:125:ILE:HD13	2.17	0.45
1:LK:39:TRP:HB2	1:DP:120:LEU:HB3	1.99	0.45
1:BL:46:PHE:HE1	1:YR:55:PHE:HE1	1.65	0.45
2:EL:45:ILE:HG13	2:EL:46:HIS:HB3	1.99	0.45
1:IL:14:VAL:HG23	1:KQ:14:VAL:HG21	1.94	0.45
1:RL:186:THR:HG21	1:RL:214:LYS:HD2	1.98	0.45
1:aL:71:ARG:H	2:UQ:26:LEU:HD12	1.81	0.45
3:AM:118:ASP:OD1	3:AM:118:ASP:N	2.36	0.45
5:DM:45:TYR:OH	5:EO:40:THR:CG2	2.64	0.45
5:FM:38:TYR:CE2	4:BO:6:MET:HE3	2.45	0.45
3:AN:202:ASN:CG	5:DO:38:TYR:HA	2.42	0.45
3:AO:108:THR:O	3:AO:132:TYR:OH	2.32	0.45
5:DO:69:GLU:OE2	5:DO:73:ARG:NH2	2.46	0.45
1:LP:51:ASN:HB3	1:LP:54:LEU:HD13	1.99	0.45
1:LP:73:ASN:OD1	2:NP:26:LEU:N	2.50	0.45
2:NP:45:ILE:HD13	2:NP:45:ILE:HA	1.90	0.45
1:IQ:262:ALA:O	2:cR:40:SER:CB	2.64	0.45
1:KQ:150:ASN:ND2	2:dR:1:MET:N	2.61	0.45
1:dQ:260:GLN:HE21	1:dQ:260:GLN:HA	1.82	0.45
2:fQ:40:SER:CB	1:gR:262:ALA:O	2.64	0.45
1:IR:184:SER:OG	1:IR:185:GLU:N	2.50	0.45
1:JR:41:ASN:ND2	1:JR:54:LEU:O	2.46	0.45
2:UR:44:GLN:HB3	2:UR:45:ILE:H	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bR:235:LEU:HD22	1:bR:264:ILE:HG21	1.99	0.45
1:AS:362:PRO:HA	1:AS:363:PRO:HD3	1.88	0.45
1:CS:51:ASN:HB3	1:CS:54:LEU:HD23	1.99	0.45
1:C1:14:VAL:HG23	1:dQ:14:VAL:HG23	1.97	0.44
1:B1:14:VAL:HG23	1:Y8:14:VAL:HG23	1.97	0.44
1:I1:35:PHE:O	1:SE:119:LYS:HD3	2.17	0.44
1:I1:39:TRP:CE3	1:UE:45:MET:HE1	2.51	0.44
1:I1:357:LYS:CD	2:PG:17:ASP:HB2	2.47	0.44
1:J1:133:LEU:HB2	2:O1:11:MET:HG2	1.99	0.44
1:R1:85:TYR:HE2	1:Q6:46:PHE:CD1	2.31	0.44
1:R1:98:ASN:HD22	1:CS:30:SER:HB3	1.81	0.44
1:R1:105:GLU:CG	1:AS:111:ARG:NH2	2.67	0.44
1:R1:126:VAL:HG23	1:CJ:25:PHE:CZ	2.52	0.44
1:T1:31:LYS:HB2	1:CJ:314:GLY:O	2.15	0.44
1:X1:156:TYR:HE1	1:X1:360:LEU:HD11	1.81	0.44
1:Z1:45:MET:HE1	1:IR:39:TRP:CE3	2.51	0.44
1:g1:71:ARG:HD3	2:k1:30:MET:HG2	1.99	0.44
1:g1:372:VAL:HB	2:l1:11:MET:HB2	1.98	0.44
2:k1:11:MET:HB2	1:K7:372:VAL:HG11	1.99	0.44
3:A2:151:ASN:ND2	3:AB:30:LEU:HG	2.33	0.44
5:D2:95:TRP:HE3	5:D2:100:THR:HG21	1.82	0.44
1:C3:172:ARG:HD2	1:C3:276:LEU:HD23	1.97	0.44
1:C3:184:SER:OG	1:C3:185:GLU:N	2.50	0.44
1:C3:262:ALA:O	2:EQ:40:SER:CB	2.64	0.44
1:B3:372:VAL:HG11	2:FQ:11:MET:HB2	1.99	0.44
1:Q3:201:VAL:O	1:Q3:205:ILE:HG13	2.16	0.44
1:S3:14:VAL:HG23	1:CR:14:VAL:HG21	1.96	0.44
2:U3:45:ILE:HG13	2:U3:46:HIS:HB3	1.99	0.44
1:C4:184:SER:OG	1:C4:185:GLU:N	2.50	0.44
1:A4:71:ARG:HD3	2:F4:30:MET:HG2	1.99	0.44
1:A4:73:ASN:HB2	1:A4:354:ARG:HH22	1.82	0.44
1:A4:186:THR:HG21	1:A4:214:LYS:HD2	1.98	0.44
1:B4:260:GLN:HA	1:B4:260:GLN:HE21	1.82	0.44
2:H4:17:ASP:HB2	1:QG:357:LYS:CD	2.47	0.44
1:I4:357:LYS:CD	2:H8:17:ASP:HB2	2.46	0.44
1:J4:101:LEU:HD21	1:AE:136:ASN:HD21	1.82	0.44
1:L4:235:LEU:HD22	1:L4:264:ILE:HG21	1.99	0.44
1:Q4:201:VAL:O	1:Q4:205:ILE:HG13	2.16	0.44
1:T4:146:ALA:O	2:GS:2:TYR:HE1	2.00	0.44
2:W4:2:TYR:HE2	1:DD:157:LYS:HE3	1.61	0.44
1:X4:184:SER:OG	1:X4:185:GLU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y4:71:ARG:HD3	2:c4:30:MET:HG2	1.99	0.44
1:f4:35:PHE:O	1:C6:119:LYS:HD3	2.17	0.44
1:f4:201:VAL:O	1:f4:205:ILE:HG13	2.16	0.44
1:f4:357:LYS:CD	2:fG:17:ASP:HB2	2.46	0.44
5:N5:228:ARG:HH22	5:CN:264:GLY:CA	2.25	0.44
5:O5:320:ILE:O	5:O5:321:ASP:HB2	2.17	0.44
1:J6:71:ARG:HD3	2:N6:30:MET:HG2	1.99	0.44
1:Q6:33:TRP:CG	1:LJ:174:MET:CB	2.73	0.44
1:Q6:53:TYR:CG	1:LJ:223:GLY:HA2	2.44	0.44
1:R6:259:PHE:HD1	1:S6:259:PHE:CE2	2.32	0.44
1:a6:372:VAL:HG11	2:NQ:11:MET:HB2	1.99	0.44
1:b6:94:THR:OG1	1:LQ:159:LYS:NZ	2.34	0.44
1:g6:53:TYR:CD2	1:LP:223:GLY:CA	3.00	0.44
1:h6:71:ARG:HD3	2:l6:30:MET:HG2	1.99	0.44
1:h6:85:TYR:HE2	1:AE:46:PHE:CD1	2.32	0.44
1:C7:156:TYR:HE1	1:C7:360:LEU:HD11	1.81	0.44
1:A7:152:ALA:O	2:G7:8:ARG:NH1	2.51	0.44
1:D7:145:LEU:HD23	2:E7:16:GLU:HA	1.98	0.44
1:I7:139:ARG:HB2	1:gR:81:PHE:CE2	2.51	0.44
1:I7:201:VAL:O	1:I7:205:ILE:HG13	2.16	0.44
1:Q7:81:PHE:CE2	1:QR:139:ARG:HB2	2.51	0.44
1:Q7:136:ASN:HD21	1:AG:101:LEU:HD21	1.82	0.44
1:Q7:156:TYR:HE1	1:Q7:360:LEU:HD11	1.81	0.44
1:Y7:119:LYS:HD3	1:KE:35:PHE:O	2.17	0.44
1:Z7:152:ALA:O	2:e7:8:ARG:NH1	2.51	0.44
1:Z7:203:GLU:HB3	1:IR:248:SER:OG	2.17	0.44
2:c7:45:ILE:CG1	2:c7:46:HIS:H	2.23	0.44
1:g7:119:LYS:HD3	1:C8:35:PHE:O	2.17	0.44
1:i7:260:GLN:HA	1:i7:260:GLN:HE21	1.82	0.44
1:A8:133:LEU:HB2	2:G8:11:MET:HG2	1.99	0.44
1:A8:367:PRO:O	1:D8:377:HIS:NE2	2.38	0.44
2:d8:11:MET:HB2	1:BR:372:VAL:HG11	1.99	0.44
1:g8:32:SER:HB2	1:KS:174:MET:CE	2.47	0.44
1:g8:120:LEU:O	1:DD:37:ASP:N	2.48	0.44
1:h8:71:ARG:HD3	2:l8:30:MET:HG2	1.99	0.44
3:AB:24:ARG:HB2	3:AB:169:LEU:HD13	2.00	0.44
5:DB:95:TRP:HE3	5:DB:100:THR:HG21	1.82	0.44
3:AC:180:PHE:HE1	3:AC:224:SER:HB2	1.82	0.44
1:AD:298:ARG:HH22	1:AD:306:GLN:HA	1.81	0.44
1:AD:354:ARG:NH2	2:MD:24:THR:OG1	2.51	0.44
1:BD:244:ASP:N	1:BD:244:ASP:OD1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:240:ILE:HB	1:CD:344:ILE:HG22	1.99	0.44
1:DD:115:ARG:HH12	1:KD:299:ALA:HA	1.82	0.44
1:DD:125:ILE:HD13	1:KS:24:ASP:OD2	2.17	0.44
1:KD:31:LYS:HA	1:IS:316:VAL:HG13	1.99	0.44
1:KD:57:LYS:HD2	1:KS:58:ILE:CD1	2.47	0.44
1:KD:197:LEU:HD21	1:KD:342:ALA:HB2	1.98	0.44
1:LD:54:LEU:HD12	1:DK:118:THR:HB	1.99	0.44
1:LD:73:ASN:OD1	2:ND:26:LEU:N	2.50	0.44
1:LD:173:ALA:HB2	1:LD:279:VAL:HG11	1.98	0.44
1:LD:344:ILE:HD11	1:LD:391:ILE:HB	2.00	0.44
1:BE:68:LEU:HD12	1:BE:161:SER:HB3	1.99	0.44
1:BE:222:SER:CB	1:CP:38:LYS:C	2.88	0.44
1:BE:362:PRO:HA	1:BE:363:PRO:HD3	1.83	0.44
1:CE:106:GLU:N	1:LP:109:LEU:HD22	2.31	0.44
1:FE:361:LYS:HE2	1:FE:377:HIS:HB2	1.98	0.44
1:ME:14:VAL:HG23	1:QQ:14:VAL:HG21	1.96	0.44
1:TE:203:GLU:HB3	1:IQ:248:SER:OG	2.17	0.44
1:aE:119:LYS:HD3	1:CG:35:PHE:O	2.17	0.44
1:dE:82:ILE:HD13	1:dE:82:ILE:HA	1.85	0.44
5:DF:38:TYR:HA	3:AI:202:ASN:CG	2.43	0.44
5:DF:54:LYS:CD	5:EM:25:ARG:NH1	2.71	0.44
1:CG:248:SER:OG	1:ZL:203:GLU:HB3	2.17	0.44
1:RG:372:VAL:HB	2:WG:11:MET:HB2	1.98	0.44
1:ZG:71:ARG:HD3	2:dG:30:MET:HG2	1.99	0.44
5:CH:266:THR:CB	5:NN:230:SER:C	2.89	0.44
5:OH:320:ILE:O	5:OH:320:ILE:HG23	2.16	0.44
5:EI:38:TYR:HE2	5:EO:45:TYR:HB3	1.83	0.44
1:AJ:56:PRO:O	3:AN:154:ILE:HG22	2.08	0.44
1:BJ:300:TYR:HE1	1:CJ:228:GLN:HB2	1.82	0.44
1:DJ:384:ILE:HD13	1:LP:35:PHE:HD1	1.74	0.44
2:FJ:41:TYR:HB3	8:QJ:122:ALA:HB3	1.99	0.44
2:GJ:53:PHE:HB3	1:KJ:62:LEU:HD11	1.98	0.44
1:KJ:45:MET:HG3	1:LP:14:VAL:HA	1.33	0.44
1:KJ:240:ILE:HG13	1:KJ:270:VAL:HA	1.99	0.44
1:DK:284:LYS:HE2	1:DK:330:ASN:HB3	2.00	0.44
2:HK:2:TYR:HE1	1:jR:146:ALA:O	2.00	0.44
1:KK:197:LEU:HD21	1:KK:342:ALA:HB2	1.98	0.44
1:DL:325:LYS:NZ	1:DL:325:LYS:CB	2.73	0.44
1:JL:71:ARG:HD3	2:NL:30:MET:HG2	1.99	0.44
1:RL:203:GLU:HB3	1:QR:248:SER:OG	2.17	0.44
1:aL:372:VAL:HG11	2:VQ:11:MET:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AM:258:LYS:HE3	3:AO:311:ILE:CD1	2.47	0.44
5:DM:95:TRP:HE3	5:DM:100:THR:HG21	1.82	0.44
5:EM:45:TYR:HB3	5:EO:38:TYR:HE2	1.83	0.44
5:EM:140:ASP:O	5:CM:140:ASP:CA	2.65	0.44
5:DO:95:TRP:HE3	5:DO:100:THR:HG21	1.82	0.44
5:OO:271:GLN:O	5:OO:274:LEU:HD12	2.17	0.44
5:OO:320:ILE:O	5:OO:321:ASP:HB2	2.17	0.44
2:HP:33:ASP:O	2:HP:36:LYS:NZ	2.39	0.44
1:DQ:235:LEU:HD22	1:DQ:264:ILE:HG21	1.99	0.44
1:KQ:372:VAL:HG11	2:dR:11:MET:HB2	1.99	0.44
1:RQ:71:ARG:HD3	2:VQ:30:MET:HG2	1.99	0.44
1:SQ:372:VAL:HG11	2:NR:11:MET:HB2	1.99	0.44
1:CR:184:SER:OG	1:CR:185:GLU:N	2.50	0.44
1:AR:73:ASN:HB2	1:AR:354:ARG:HH22	1.83	0.44
1:JR:372:VAL:HB	2:OR:11:MET:HB2	1.98	0.44
1:RR:259:PHE:HD1	1:SR:259:PHE:CE2	2.32	0.44
2:UR:45:ILE:HG13	2:UR:46:HIS:H	1.66	0.44
2:cR:33:ASP:O	2:cR:36:LYS:NZ	2.43	0.44
1:gR:108:MET:HG3	1:gR:109:LEU:HD12	1.99	0.44
1:hR:71:ARG:HD3	2:kR:30:MET:HG2	1.99	0.44
1:JS:197:LEU:HD21	1:JS:342:ALA:HB2	1.98	0.44
1:C1:35:PHE:O	1:bQ:119:LYS:HD3	2.17	0.44
1:C1:47:GLU:H	1:dQ:20:SER:HB2	1.80	0.44
1:C1:49:PHE:HD1	1:dQ:22:LEU:HD11	1.81	0.44
1:C1:119:LYS:HD3	1:Y8:35:PHE:O	2.17	0.44
1:C1:321:VAL:HG22	1:C1:327:PHE:CE2	2.51	0.44
1:J1:55:PHE:O	1:J1:57:LYS:NZ	2.46	0.44
2:N1:11:MET:HB2	1:S8:372:VAL:HG11	1.99	0.44
1:Q1:35:PHE:O	1:IG:119:LYS:HD3	2.17	0.44
1:Q1:184:SER:OG	1:Q1:185:GLU:N	2.50	0.44
1:R1:64:ILE:CD1	1:S1:88:GLU:CG	2.93	0.44
1:S1:45:MET:HE1	1:Q8:39:TRP:CE3	2.51	0.44
1:Y1:152:ALA:O	2:d1:8:ARG:NH1	2.51	0.44
1:i1:98:ASN:O	1:D4:304:GLN:NE2	2.48	0.44
4:B2:30:LEU:HB3	5:EA:64:TRP:CG	2.50	0.44
5:D2:34:ASP:OD1	5:D2:34:ASP:N	2.44	0.44
5:C2:320:ILE:O	5:C2:321:ASP:HB2	2.17	0.44
1:J3:203:GLU:HB3	1:Q8:248:SER:OG	2.17	0.44
1:R3:203:GLU:HB3	1:I8:248:SER:OG	2.17	0.44
1:S3:260:GLN:HA	1:S3:260:GLN:HE21	1.82	0.44
1:T3:361:LYS:HD3	1:T3:377:HIS:HD2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y3:98:ASN:ND2	1:Y3:99:MET:N	2.64	0.44
1:Y3:222:SER:OG	1:BK:39:TRP:O	2.29	0.44
1:b3:145:LEU:HD23	2:c3:16:GLU:HA	1.97	0.44
1:b3:304:GLN:NE2	1:j8:98:ASN:O	2.48	0.44
1:C4:62:LEU:CD1	2:XG:53:PHE:O	2.62	0.44
1:A4:55:PHE:O	1:A4:57:LYS:NZ	2.46	0.44
1:A4:133:LEU:HB2	2:G4:11:MET:HG2	2.00	0.44
1:A4:259:PHE:HD1	1:B4:259:PHE:CE2	2.32	0.44
1:B4:46:PHE:HE1	1:aE:55:PHE:HE1	1.65	0.44
1:D4:98:ASN:O	1:DR:304:GLN:NE2	2.48	0.44
1:I4:119:LYS:HD3	1:QL:35:PHE:O	2.17	0.44
2:P4:17:ASP:HB2	1:C8:357:LYS:CD	2.47	0.44
1:Q4:357:LYS:CD	2:n8:17:ASP:HB2	2.47	0.44
2:W4:53:PHE:O	1:g8:62:LEU:CD1	2.62	0.44
1:X4:64:ILE:HB	1:Z8:90:VAL:HG12	1.97	0.44
1:X4:248:SER:OG	1:Z8:203:GLU:HB3	2.17	0.44
1:g4:152:ALA:O	2:k4:8:ARG:NH1	2.51	0.44
1:i4:146:ALA:O	2:HD:2:TYR:HE1	2.00	0.44
1:i4:265:ASP:OD1	1:i4:265:ASP:N	2.48	0.44
2:j4:15:TYR:CZ	1:CD:138:THR:HG21	2.52	0.44
3:A5:30:LEU:HG	3:AI:151:ASN:ND2	2.33	0.44
3:A5:311:ILE:CD1	3:AI:258:LYS:HE3	2.47	0.44
5:D5:38:TYR:HA	3:AC:202:ASN:CG	2.42	0.44
5:N5:271:GLN:O	5:N5:274:LEU:HD12	2.17	0.44
5:N5:320:ILE:O	5:N5:321:ASP:HB2	2.17	0.44
1:C6:35:PHE:O	1:gG:119:LYS:HD3	2.17	0.44
1:C6:136:ASN:O	1:gG:81:PHE:HZ	1.99	0.44
1:C6:321:VAL:HG22	1:C6:327:PHE:CE2	2.51	0.44
1:I6:81:PHE:CE2	1:CL:139:ARG:HB2	2.51	0.44
1:I6:262:ALA:O	2:kG:40:SER:CB	2.64	0.44
1:K6:137:ASP:OD1	1:CL:48:THR:HG22	2.17	0.44
1:Q6:30:SER:CA	1:LJ:315:ALA:HB2	2.44	0.44
1:R6:73:ASN:HB2	1:R6:354:ARG:HH22	1.83	0.44
1:R6:101:LEU:HD21	1:Q8:136:ASN:HD21	1.82	0.44
2:V6:11:MET:HB2	1:KG:372:VAL:HG11	1.99	0.44
1:Y6:46:PHE:CD1	1:LE:85:TYR:HE2	2.32	0.44
2:d6:11:MET:HB2	1:a7:372:VAL:HG11	1.99	0.44
1:h6:152:ALA:O	2:m6:8:ARG:NH1	2.51	0.44
1:I7:48:THR:HG22	1:iR:137:ASP:OD1	2.17	0.44
1:K7:46:PHE:HE1	1:CQ:55:PHE:HE1	1.65	0.44
1:S7:260:GLN:HE21	1:S7:260:GLN:HA	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y7:108:MET:HG3	1:Y7:109:LEU:HD12	1.99	0.44
1:Y7:302:ASP:CG	1:KE:29:TYR:HH	2.05	0.44
1:Z7:71:ARG:HD3	2:d7:30:MET:HG2	1.99	0.44
1:g7:184:SER:OG	1:g7:185:GLU:N	2.50	0.44
1:I8:35:PHE:O	1:IR:119:LYS:HD3	2.17	0.44
1:K8:260:GLN:HE21	1:K8:260:GLN:HA	1.82	0.44
1:Q8:156:TYR:HE1	1:Q8:360:LEU:HD11	1.81	0.44
1:Q8:289:GLN:N	1:Q8:326:GLU:OE2	2.46	0.44
1:S8:362:PRO:HA	1:S8:363:PRO:HD3	1.80	0.44
1:Y8:201:VAL:O	1:Y8:205:ILE:HG13	2.16	0.44
1:h8:73:ASN:HB2	1:h8:354:ARG:HH22	1.82	0.44
1:h8:133:LEU:HB2	2:m8:11:MET:HG2	2.00	0.44
1:i8:133:LEU:HD21	1:i8:155:VAL:HG11	2.00	0.44
3:A9:11:GLU:O	5:DC:41:ASN:ND2	2.50	0.44
3:A9:66:ILE:HG23	1:AK:150:ASN:HA	1.99	0.44
3:A9:175:ILE:HD11	3:AA:163:GLU:HG3	1.99	0.44
5:D9:38:TYR:HA	3:AF:202:ASN:CG	2.43	0.44
3:AA:6:ARG:CZ	5:DH:51:ARG:CB	2.93	0.44
3:AA:308:THR:HG21	3:AC:300:LYS:HZ1	1.83	0.44
4:BA:4:TYR:HD2	5:EC:44:SER:OG	2.01	0.44
5:EA:17:PHE:HB2	5:EC:62:ARG:NH2	2.32	0.44
5:CA:271:GLN:O	5:CA:274:LEU:HD12	2.17	0.44
5:NA:271:GLN:O	5:NA:274:LEU:HD12	2.17	0.44
5:NB:228:ARG:HH22	5:CF:264:GLY:CA	2.25	0.44
3:AC:11:GLU:O	5:DN:41:ASN:ND2	2.50	0.44
4:BC:4:TYR:HD2	5:EH:44:SER:OG	2.01	0.44
1:AD:91:ILE:HG13	1:LD:158:LYS:HD2	1.99	0.44
1:AD:120:LEU:CD1	1:KK:55:PHE:CG	2.93	0.44
1:AD:173:ALA:HB1	1:KK:33:TRP:HH2	1.80	0.44
1:BD:213:ALA:HB1	1:BD:228:GLN:HB2	1.99	0.44
1:CD:357:LYS:HG2	2:HD:20:LEU:HD12	1.99	0.44
1:DD:109:LEU:HD22	1:JS:109:LEU:HD21	1.98	0.44
1:LD:51:ASN:HB3	1:LD:54:LEU:HD13	1.99	0.44
1:BE:126:VAL:HG23	1:CP:25:PHE:HZ	1.82	0.44
1:BE:316:VAL:HG23	1:CP:31:LYS:NZ	2.17	0.44
1:LE:101:LEU:HD21	1:SE:136:ASN:HD21	1.82	0.44
1:LE:152:ALA:O	2:QE:8:ARG:NH1	2.51	0.44
1:SE:184:SER:OG	1:SE:185:GLU:N	2.50	0.44
1:UE:260:GLN:HE21	1:UE:260:GLN:HA	1.82	0.44
1:bE:73:ASN:HB2	1:bE:354:ARG:HH22	1.83	0.44
1:bE:152:ALA:O	2:gE:8:ARG:NH1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cE:39:TRP:O	1:ZL:222:SER:OG	2.33	0.44
5:DF:41:ASN:ND2	3:AO:11:GLU:O	2.50	0.44
5:CF:320:ILE:O	5:CF:321:ASP:HB2	2.17	0.44
5:OF:271:GLN:O	5:OF:274:LEU:HD12	2.17	0.44
1:CG:362:PRO:HA	1:CG:363:PRO:HD3	1.84	0.44
1:YG:184:SER:OG	1:YG:185:GLU:N	2.50	0.44
5:NH:271:GLN:O	5:NH:274:LEU:HD12	2.17	0.44
3:AI:69:VAL:HG13	3:AI:80:ILE:HB	1.99	0.44
3:AI:79:MET:HE2	3:AI:79:MET:HB3	1.82	0.44
5:EI:140:ASP:N	5:CI:139:LYS:HA	2.33	0.44
1:AJ:44:THR:O	5:DN:27:ARG:CB	2.66	0.44
1:AJ:243:THR:HG22	1:AJ:276:LEU:HD23	2.00	0.44
1:AJ:355:TYR:CE2	1:JS:139:ARG:NH1	2.75	0.44
1:BJ:360:LEU:HB2	2:EJ:19:ARG:HH12	1.82	0.44
1:DJ:12:LEU:HG	1:DJ:14:VAL:H	1.82	0.44
1:DJ:118:THR:HB	1:LP:54:LEU:HD12	1.99	0.44
1:LJ:73:ASN:OD1	2:NJ:26:LEU:N	2.50	0.44
1:BK:300:TYR:HE1	1:CK:228:GLN:HB2	1.82	0.44
1:CK:55:PHE:CB	1:hR:87:GLU:OE1	2.65	0.44
1:CK:326:GLU:OE1	1:CK:326:GLU:HA	2.17	0.44
1:KK:240:ILE:HG13	1:KK:270:VAL:HA	1.99	0.44
1:LK:100:ASP:OD2	1:jR:26:ASN:C	2.40	0.44
1:CL:201:VAL:O	1:CL:205:ILE:HG13	2.16	0.44
1:AL:362:PRO:HA	1:AL:363:PRO:HD3	1.83	0.44
1:BL:372:VAL:HG11	2:NL:11:MET:HB2	1.99	0.44
1:JL:372:VAL:HB	2:OL:11:MET:HB2	1.98	0.44
2:PL:17:ASP:HB2	1:YR:357:LYS:CD	2.46	0.44
1:RL:90:VAL:HG12	1:QR:64:ILE:HB	1.97	0.44
1:gL:98:ASN:ND2	1:gL:99:MET:N	2.64	0.44
5:DM:9:LYS:HA	5:DM:9:LYS:HD3	1.70	0.44
1:AP:209:GLN:HE22	1:AP:235:LEU:HB2	1.82	0.44
2:FP:31:SER:HA	2:FP:35:ASN:HB3	2.00	0.44
1:KP:362:PRO:HA	1:KP:363:PRO:HD3	1.86	0.44
1:LP:344:ILE:HD11	1:LP:391:ILE:HB	2.00	0.44
1:LP:346:ASP:OD1	1:LP:346:ASP:N	2.50	0.44
1:IQ:156:TYR:HE1	1:IQ:360:LEU:HD11	1.81	0.44
1:IQ:184:SER:OG	1:IQ:185:GLU:N	2.50	0.44
1:RQ:152:ALA:O	2:WQ:8:ARG:NH1	2.51	0.44
1:TQ:98:ASN:ND2	1:TQ:99:MET:N	2.65	0.44
1:bQ:108:MET:HG3	1:bQ:109:LEU:HD12	1.99	0.44
1:bQ:289:GLN:N	1:bQ:326:GLU:OE2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BR:260:GLN:HE21	1:BR:260:GLN:HA	1.82	0.44
1:QR:108:MET:HG3	1:QR:109:LEU:HD12	1.99	0.44
1:jR:361:LYS:HE2	1:jR:377:HIS:HB2	1.98	0.44
1:AS:189:ARG:HB2	1:AS:393:ILE:HG12	1.99	0.44
1:AS:244:ASP:N	1:AS:244:ASP:OD1	2.50	0.44
1:BS:136:ASN:OD1	1:BS:137:ASP:N	2.48	0.44
1:CS:115:ARG:HH12	1:JS:299:ALA:HA	1.83	0.44
2:ES:41:TYR:HB3	8:QS:122:ALA:HB3	1.99	0.44
1:IS:91:ILE:HG13	1:KS:158:LYS:HD2	1.99	0.44
1:B1:46:PHE:HE1	1:Y8:55:PHE:HE1	1.65	0.44
1:I1:136:ASN:HD21	1:JQ:101:LEU:HD21	1.82	0.44
1:K1:46:PHE:HE1	1:Y6:55:PHE:HE1	1.65	0.44
1:K1:260:GLN:HA	1:K1:260:GLN:HE21	1.82	0.44
1:R1:110:LYS:CE	1:AJ:106:GLU:OE1	2.65	0.44
1:S1:133:LEU:HD21	1:S1:155:VAL:HG11	2.00	0.44
1:S1:260:GLN:HE21	1:S1:260:GLN:HA	1.82	0.44
1:T1:98:ASN:O	1:L3:304:GLN:NE2	2.48	0.44
1:f1:14:VAL:HG23	1:B3:14:VAL:HG21	1.94	0.44
1:g1:203:GLU:HB3	1:CQ:248:SER:OG	2.17	0.44
1:h1:14:VAL:HG23	1:QG:14:VAL:HG21	1.96	0.44
1:h1:14:VAL:HG23	1:QG:14:VAL:HG23	1.97	0.44
1:h1:46:PHE:HE1	1:QG:55:PHE:HE1	1.65	0.44
2:m1:17:ASP:HB2	1:CQ:357:LYS:CD	2.46	0.44
5:E2:38:TYR:HE2	5:E9:45:TYR:HB3	1.83	0.44
5:N2:271:GLN:O	5:N2:274:LEU:HD12	2.17	0.44
1:A3:111:ARG:HG2	1:g7:132:THR:HG21	1.23	0.44
1:B3:150:ASN:ND2	2:FQ:1:MET:N	2.61	0.44
1:D3:172:ARG:NH1	1:D3:277:GLY:H	2.16	0.44
1:I3:39:TRP:CE3	1:SL:45:MET:HE1	2.51	0.44
1:I3:172:ARG:HD2	1:I3:276:LEU:HD23	1.97	0.44
1:I3:248:SER:OG	1:R8:203:GLU:HB3	2.17	0.44
1:K3:372:VAL:HG11	2:F8:11:MET:HB2	1.99	0.44
1:T3:82:ILE:HD13	1:T3:82:ILE:HA	1.85	0.44
1:b3:98:ASN:ND2	1:b3:99:MET:N	2.65	0.44
1:b3:265:ASP:OD1	1:b3:265:ASP:N	2.48	0.44
1:C4:119:LYS:HD3	1:aE:35:PHE:O	2.17	0.44
1:B4:133:LEU:HD21	1:B4:155:VAL:HG11	2.00	0.44
1:K4:372:VAL:HG11	2:VR:11:MET:HB2	1.99	0.44
1:L4:265:ASP:OD1	1:L4:265:ASP:N	2.48	0.44
1:L4:361:LYS:HE2	1:L4:377:HIS:HB2	1.98	0.44
1:Q4:108:MET:HG3	1:Q4:109:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R4:105:GLU:OE1	1:BD:110:LYS:HD3	2.17	0.44
1:R4:170:GLU:CD	1:BS:32:SER:HG	2.12	0.44
1:R4:222:SER:N	1:BS:38:LYS:CD	1.89	0.44
1:S4:106:GLU:HG3	1:KS:109:LEU:HD13	1.99	0.44
1:S4:133:LEU:HD21	1:S4:155:VAL:HG11	2.00	0.44
1:T4:98:ASN:ND2	1:T4:99:MET:N	2.65	0.44
1:a4:235:LEU:HD22	1:a4:264:ILE:HG21	1.99	0.44
1:f4:156:TYR:HE1	1:f4:360:LEU:HD11	1.81	0.44
1:g4:133:LEU:HB2	2:k4:11:MET:HG2	2.00	0.44
1:g4:203:GLU:HB3	1:YG:248:SER:OG	2.17	0.44
1:i4:30:SER:C	1:CD:314:GLY:O	2.60	0.44
3:A5:37:GLU:HG3	3:AI:150:TYR:CD2	2.36	0.44
3:A5:308:THR:HG21	3:AI:300:LYS:HZ2	1.81	0.44
5:D5:95:TRP:HE3	5:D5:100:THR:HG21	1.82	0.44
5:E5:140:ASP:N	5:C5:139:LYS:HA	2.33	0.44
1:Q6:108:MET:HG3	1:Q6:109:LEU:HD12	1.99	0.44
1:S6:57:LYS:HD2	1:CS:143:GLN:HE21	1.00	0.44
1:S6:71:ARG:H	2:ZQ:26:LEU:HD12	1.81	0.44
1:a6:39:TRP:O	1:JQ:222:SER:OG	2.33	0.44
1:a6:150:ASN:ND2	2:NQ:1:MET:H3	2.15	0.44
1:a6:260:GLN:HE21	1:a6:260:GLN:HA	1.82	0.44
2:c6:45:ILE:HG13	2:c6:46:HIS:HB3	1.99	0.44
1:h6:101:LEU:HD21	1:g7:136:ASN:HD21	1.82	0.44
1:h6:186:THR:HG21	1:h6:214:LYS:HD2	1.98	0.44
1:B7:39:TRP:O	1:BP:222:SER:OG	2.34	0.44
1:L7:82:ILE:HD13	1:L7:82:ILE:HA	1.85	0.44
1:Q7:49:PHE:HD1	1:aL:22:LEU:HD11	1.81	0.44
1:S7:242:THR:HG21	1:S7:246:LEU:HD12	2.00	0.44
1:T7:98:ASN:ND2	1:T7:99:MET:N	2.64	0.44
2:V7:22:LYS:HA	2:V7:22:LYS:HD2	1.73	0.44
1:Y7:201:VAL:O	1:Y7:205:ILE:HG13	2.16	0.44
2:c7:45:ILE:HG13	2:c7:46:HIS:HB3	1.99	0.44
1:g7:201:VAL:O	1:g7:205:ILE:HG13	2.16	0.44
1:i7:137:ASP:OD1	1:C8:48:THR:HG22	2.17	0.44
1:C8:156:TYR:HE1	1:C8:360:LEU:HD11	1.81	0.44
1:A8:55:PHE:O	1:A8:57:LYS:NZ	2.46	0.44
1:A8:372:VAL:HB	2:G8:11:MET:HB2	1.98	0.44
1:B8:260:GLN:HE21	1:B8:260:GLN:HA	1.82	0.44
1:I8:108:MET:HG3	1:I8:109:LEU:HD12	1.99	0.44
1:L8:98:ASN:ND2	1:L8:99:MET:N	2.64	0.44
2:M8:45:ILE:CG1	2:M8:46:HIS:H	2.23	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q8:172:ARG:HD2	1:Q8:276:LEU:HD23	1.97	0.44
1:T8:304:GLN:NE2	1:TL:98:ASN:O	2.48	0.44
1:Y8:156:TYR:HE1	1:Y8:360:LEU:HD11	1.81	0.44
1:Y8:184:SER:OG	1:Y8:185:GLU:N	2.50	0.44
1:Z8:152:ALA:O	2:e8:8:ARG:NH1	2.51	0.44
5:C9:320:ILE:O	5:C9:321:ASP:HB2	2.17	0.44
3:AA:24:ARG:HB2	3:AA:169:LEU:HD13	2.00	0.44
3:AA:69:VAL:HG13	3:AA:80:ILE:HB	2.00	0.44
3:AA:311:ILE:CD1	3:AC:258:LYS:HE3	2.47	0.44
3:AB:237:GLU:OE1	3:AF:231:LEU:HD21	2.17	0.44
5:DB:38:TYR:HB3	3:AO:202:ASN:HD22	1.77	0.44
5:EC:25:ARG:NH1	5:DH:54:LYS:CD	2.71	0.44
1:AD:209:GLN:HE22	1:AD:235:LEU:HB2	1.82	0.44
2:FD:10:MET:CB	1:KS:372:VAL:HG21	2.32	0.44
2:FD:41:TYR:HB3	8:QD:122:ALA:HB3	1.99	0.44
1:KD:105:GLU:CD	1:DK:109:LEU:CG	2.91	0.44
1:KD:289:GLN:HB2	1:KD:326:GLU:OE2	2.17	0.44
1:LD:24:ASP:OD2	1:DK:125:ILE:HD13	2.17	0.44
1:LD:38:LYS:O	1:DK:222:SER:HB2	2.14	0.44
1:BE:152:ALA:O	2:IE:8:ARG:NH1	2.51	0.44
1:CE:260:GLN:HE21	1:CE:260:GLN:HA	1.82	0.44
1:FE:372:VAL:HG13	2:HP:11:MET:HE2	1.65	0.44
1:KE:136:ASN:HD21	1:JR:101:LEU:HD21	1.82	0.44
1:LE:186:THR:HG21	1:LE:214:LYS:HD2	1.98	0.44
1:SE:201:VAL:O	1:SE:205:ILE:HG13	2.16	0.44
1:SE:248:SER:OG	1:JQ:203:GLU:HB3	2.17	0.44
1:cE:260:GLN:HE21	1:cE:260:GLN:HA	1.82	0.44
3:AF:237:GLU:OE1	3:AM:231:LEU:HD21	2.17	0.44
1:CG:136:ASN:HD21	1:AR:101:LEU:HD21	1.82	0.44
1:BG:372:VAL:HG11	2:VG:11:MET:HB2	1.99	0.44
1:LG:361:LYS:HE2	1:LG:377:HIS:HB2	1.98	0.44
1:ZG:41:ASN:ND2	1:ZG:54:LEU:O	2.46	0.44
1:ZG:101:LEU:HD21	1:gG:136:ASN:HD21	1.82	0.44
1:gG:156:TYR:HE1	1:gG:360:LEU:HD11	1.81	0.44
1:hG:73:ASN:HB2	1:hG:354:ARG:HH22	1.83	0.44
1:hG:152:ALA:O	2:mG:8:ARG:NH1	2.51	0.44
1:jG:98:ASN:ND2	1:jG:99:MET:N	2.65	0.44
3:AH:30:LEU:HG	3:AN:151:ASN:ND2	2.33	0.44
3:AH:202:ASN:CG	5:DI:38:TYR:HA	2.42	0.44
3:AI:175:ILE:HD11	3:AO:163:GLU:HG3	1.99	0.44
3:AI:311:ILE:CD1	3:AO:258:LYS:HE3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EI:17:PHE:HB2	5:EO:62:ARG:NH2	2.32	0.44
1:DJ:222:SER:HB2	1:LP:38:LYS:O	2.14	0.44
1:DJ:362:PRO:CD	1:LP:365:HIS:CE1	2.94	0.44
1:KJ:109:LEU:HD23	1:CS:109:LEU:HD22	1.98	0.44
1:LJ:22:LEU:CD2	1:JS:48:THR:CA	2.81	0.44
1:LJ:38:LYS:O	1:CS:222:SER:HB2	2.14	0.44
1:AK:70:ASN:O	1:AK:72:PHE:N	2.49	0.44
1:AK:354:ARG:NH2	2:MK:24:THR:OG1	2.51	0.44
1:DK:162:ASP:OD1	1:DK:162:ASP:N	2.49	0.44
1:KK:289:GLN:HB2	1:KK:326:GLU:OE2	2.17	0.44
1:KK:335:LYS:HD3	1:KK:336:PRO:HD2	2.00	0.44
1:JL:203:GLU:HB3	1:YR:248:SER:OG	2.17	0.44
1:QL:184:SER:OG	1:QL:185:GLU:N	2.50	0.44
1:RL:64:ILE:CD1	1:SL:88:GLU:CG	2.93	0.44
1:SL:133:LEU:HD21	1:SL:155:VAL:HG11	2.00	0.44
1:aL:19:LYS:NZ	1:aL:37:ASP:OD1	2.37	0.44
1:bL:98:ASN:O	1:TQ:304:GLN:NE2	2.48	0.44
3:AM:24:ARG:HB2	3:AM:169:LEU:HD13	2.00	0.44
3:AM:69:VAL:HG13	3:AM:80:ILE:HB	2.00	0.44
5:EM:62:ARG:NH2	5:EO:17:PHE:HB2	2.32	0.44
5:DN:95:TRP:HE3	5:DN:100:THR:HG21	1.82	0.44
5:EN:140:ASP:N	5:CN:139:LYS:HA	2.33	0.44
3:AO:36:LEU:CG	1:IS:145:LEU:CD1	2.92	0.44
1:KP:240:ILE:HG13	1:KP:270:VAL:HA	1.99	0.44
1:AQ:73:ASN:HB2	1:AQ:354:ARG:HH22	1.83	0.44
1:IQ:172:ARG:HD2	1:IQ:276:LEU:HD23	1.97	0.44
1:RQ:73:ASN:HB2	1:RQ:354:ARG:HH22	1.83	0.44
1:TQ:361:LYS:HE2	1:TQ:377:HIS:HB2	1.98	0.44
1:bQ:156:TYR:HE1	1:bQ:360:LEU:HD11	1.81	0.44
1:cQ:55:PHE:O	1:cQ:57:LYS:NZ	2.45	0.44
1:cQ:73:ASN:HB2	1:cQ:354:ARG:HH22	1.83	0.44
1:cQ:133:LEU:HB2	2:hQ:11:MET:HG2	1.99	0.44
1:cQ:152:ALA:O	2:hQ:8:ARG:NH1	2.51	0.44
1:AR:152:ALA:O	2:GR:8:ARG:NH1	2.51	0.44
1:DR:265:ASP:OD1	1:DR:265:ASP:N	2.48	0.44
1:JR:152:ALA:O	2:OR:8:ARG:NH1	2.51	0.44
1:KR:242:THR:HG21	1:KR:246:LEU:HD12	2.00	0.44
1:RR:73:ASN:HB2	1:RR:354:ARG:HH22	1.83	0.44
1:SR:133:LEU:HD21	1:SR:155:VAL:HG11	2.00	0.44
1:ZR:73:ASN:HB2	1:ZR:354:ARG:HH22	1.83	0.44
1:bR:325:LYS:NZ	1:bR:325:LYS:CB	2.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hR:55:PHE:O	1:hR:57:LYS:NZ	2.46	0.44
1:jR:172:ARG:NH1	1:jR:277:GLY:H	2.16	0.44
1:AS:240:ILE:HB	1:AS:344:ILE:HG22	1.99	0.44
1:BS:326:GLU:HA	1:BS:326:GLU:OE1	2.17	0.44
1:C1:136:ASN:O	1:bQ:81:PHE:HZ	1.99	0.44
2:H1:22:LYS:HG2	1:C6:360:LEU:HD21	1.94	0.44
1:I1:48:THR:HG22	1:UE:137:ASP:OD1	2.17	0.44
1:I1:119:LYS:HD3	1:Y6:35:PHE:O	2.17	0.44
1:Q1:360:LEU:HD13	1:Q1:360:LEU:HA	1.88	0.44
1:R1:133:LEU:HB2	2:V1:11:MET:HG2	1.99	0.44
1:S1:14:VAL:HG21	1:Q8:14:VAL:HG23	1.94	0.44
1:X1:139:ARG:HD2	1:I8:81:PHE:HE2	1.63	0.44
1:Z1:242:THR:HG21	1:Z1:246:LEU:HD12	2.00	0.44
2:b1:45:ILE:HG13	2:b1:46:HIS:HB3	1.99	0.44
1:h1:133:LEU:HD21	1:h1:155:VAL:HG11	2.00	0.44
1:i1:172:ARG:NH1	1:i1:277:GLY:H	2.16	0.44
2:j1:45:ILE:HG13	2:j1:46:HIS:HB3	1.99	0.44
3:A2:29:ARG:HH11	1:AK:58:ILE:HG21	1.83	0.44
1:C3:156:TYR:HE1	1:C3:360:LEU:HD11	1.81	0.44
1:A3:101:LEU:HD21	1:C8:136:ASN:HD21	1.82	0.44
1:D3:113:TYR:OH	1:DQ:371:GLU:OE1	2.32	0.44
1:I3:136:ASN:HD21	1:RR:101:LEU:HD21	1.82	0.44
1:I3:289:GLN:N	1:I3:326:GLU:OE2	2.46	0.44
1:J3:85:TYR:CD1	1:J3:122:GLY:HA2	2.53	0.44
1:Q3:55:PHE:HE1	1:Z4:46:PHE:HE1	1.65	0.44
1:Q3:108:MET:HG3	1:Q3:109:LEU:HD12	1.99	0.44
1:R3:71:ARG:HD3	2:V3:30:MET:HG2	1.99	0.44
1:S3:46:PHE:HE1	1:CR:55:PHE:HE1	1.65	0.44
2:V3:11:MET:HB2	1:KR:372:VAL:HG11	1.99	0.44
1:C4:49:PHE:HD1	1:BG:22:LEU:HD11	1.81	0.44
1:C4:248:SER:OG	1:RG:203:GLU:HB3	2.17	0.44
1:B4:14:VAL:HG23	1:aE:14:VAL:HG23	1.97	0.44
1:S4:19:LYS:NZ	1:S4:37:ASP:OD1	2.37	0.44
1:X4:108:MET:HG3	1:X4:109:LEU:HD12	1.99	0.44
1:Y4:101:LEU:HD21	1:bQ:136:ASN:HD21	1.82	0.44
1:Y4:152:ALA:O	2:d4:8:ARG:NH1	2.51	0.44
1:Z4:150:ASN:ND2	2:N8:1:MET:H3	2.13	0.44
1:f4:55:PHE:HE1	1:B6:46:PHE:HE1	1.65	0.44
1:f4:63:LEU:HD13	1:ZG:89:TYR:HE2	1.71	0.44
1:f4:184:SER:OG	1:f4:185:GLU:N	2.50	0.44
1:g4:90:VAL:HG12	1:YG:64:ILE:HB	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i4:136:ASN:HD21	1:LD:99:MET:CE	2.31	0.44
2:j4:22:LYS:HA	2:j4:22:LYS:HD2	1.73	0.44
3:A5:24:ARG:HB2	3:A5:169:LEU:HD13	2.00	0.44
5:F5:47:ASP:CA	5:FN:31:PHE:HE2	2.13	0.44
1:C6:47:GLU:H	1:iG:20:SER:HB2	1.80	0.44
1:J6:55:PHE:O	1:J6:57:LYS:NZ	2.46	0.44
1:L6:361:LYS:HE2	1:L6:377:HIS:HB2	1.98	0.44
1:S6:133:LEU:HD21	1:S6:155:VAL:HG11	2.00	0.44
1:Y6:248:SER:OG	1:LE:203:GLU:HB3	2.17	0.44
1:Z6:152:ALA:O	2:e6:8:ARG:NH1	2.51	0.44
1:a6:242:THR:HG21	1:a6:246:LEU:HD12	2.00	0.44
1:C7:27:HIS:CG	1:LK:312:PRO:CD	2.98	0.44
1:C7:184:SER:OG	1:C7:185:GLU:N	2.50	0.44
1:B7:242:THR:HG21	1:B7:246:LEU:HD12	2.00	0.44
2:E7:45:ILE:HG13	2:E7:46:HIS:HB3	1.99	0.44
1:L7:325:LYS:NZ	1:L7:325:LYS:CB	2.73	0.44
1:Q7:136:ASN:O	1:YL:81:PHE:HZ	1.99	0.44
1:R7:115:ARG:NH2	1:QQ:300:TYR:CA	2.75	0.44
1:S7:19:LYS:NZ	1:S7:37:ASP:OD1	2.37	0.44
1:B8:46:PHE:HE1	1:AE:55:PHE:HE1	1.65	0.44
1:J8:347:ILE:HD12	1:J8:347:ILE:HA	1.92	0.44
1:K8:242:THR:HG21	1:K8:246:LEU:HD12	2.00	0.44
1:R8:85:TYR:CD1	1:R8:122:GLY:HA2	2.53	0.44
1:R8:152:ALA:O	2:W8:8:ARG:NH1	2.51	0.44
1:Z8:133:LEU:HB2	2:e8:11:MET:HG2	2.00	0.44
1:i8:45:MET:HB2	1:DD:16:LYS:HB3	1.89	0.44
2:k8:45:ILE:HG13	2:k8:46:HIS:HB3	1.99	0.44
3:A9:66:ILE:HD13	1:AK:153:LEU:HB3	1.99	0.44
3:A9:231:LEU:HD21	3:AA:237:GLU:OE1	2.17	0.44
5:E9:17:PHE:HB2	5:EA:62:ARG:NH2	2.32	0.44
5:C9:271:GLN:O	5:C9:274:LEU:HD12	2.17	0.44
3:AA:231:LEU:HD21	3:AC:237:GLU:OE1	2.17	0.44
5:DB:38:TYR:HA	3:AO:202:ASN:CG	2.43	0.44
5:EB:44:SER:OG	4:BF:4:TYR:HD2	2.01	0.44
5:NB:271:GLN:O	5:NB:274:LEU:HD12	2.17	0.44
3:AC:30:LEU:HG	3:AH:151:ASN:ND2	2.33	0.44
3:AC:152:SER:H	1:AP:57:LYS:HA	1.82	0.44
3:AC:175:ILE:HD11	3:AH:163:GLU:HG3	1.99	0.44
1:AD:110:LYS:O	1:LD:130:LYS:NZ	2.42	0.44
1:CD:197:LEU:HD11	1:CD:246:LEU:HD21	1.98	0.44
1:DD:109:LEU:HD22	1:JS:109:LEU:HD23	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:47:GLU:CD	1:KS:22:LEU:HD23	2.38	0.44
1:KD:107:LEU:CB	1:KK:369:PHE:CE2	2.77	0.44
2:ND:34:THR:HA	2:ND:36:LYS:HG2	1.99	0.44
2:EE:45:ILE:HG13	2:EE:46:HIS:HB3	1.99	0.44
1:BE:110:LYS:NZ	1:AP:106:GLU:OE1	2.49	0.44
1:BE:126:VAL:HG23	1:CP:25:PHE:CZ	2.52	0.44
1:CE:242:THR:HG21	1:CE:246:LEU:HD12	2.00	0.44
1:FE:146:ALA:O	2:HP:2:TYR:HE1	2.00	0.44
1:FE:368:GLU:CG	1:LP:107:LEU:HD11	2.47	0.44
2:OE:45:ILE:HG13	2:OE:46:HIS:HB3	1.99	0.44
1:bE:85:TYR:CD1	1:bE:122:GLY:HA2	2.53	0.44
1:CG:184:SER:OG	1:CG:185:GLU:N	2.50	0.44
1:AG:133:LEU:HB2	2:GG:11:MET:HG2	1.99	0.44
2:FG:11:MET:HB2	1:SR:372:VAL:HG11	1.99	0.44
1:QG:108:MET:HG3	1:QG:109:LEU:HD12	1.99	0.44
1:SG:133:LEU:HD21	1:SG:155:VAL:HG11	2.00	0.44
1:TG:98:ASN:ND2	1:TG:99:MET:N	2.65	0.44
1:TG:361:LYS:HD3	1:TG:377:HIS:HD2	1.81	0.44
1:ZG:152:ALA:O	2:eG:8:ARG:NH1	2.51	0.44
1:bG:235:LEU:HD22	1:bG:264:ILE:HG21	1.99	0.44
1:gG:108:MET:HG3	1:gG:109:LEU:HD12	1.99	0.44
1:hG:133:LEU:HB2	2:mG:11:MET:HG2	1.99	0.44
4:BH:6:MET:HE3	5:FN:38:TYR:CE2	2.45	0.44
5:CH:271:GLN:O	5:CH:274:LEU:HD12	2.17	0.44
5:OH:271:GLN:O	5:OH:274:LEU:HD12	2.17	0.44
5:EI:140:ASP:O	5:CI:140:ASP:CA	2.65	0.44
5:CI:271:GLN:O	5:CI:274:LEU:HD12	2.17	0.44
1:AJ:173:ALA:HB1	1:JS:33:TRP:HH2	1.81	0.44
2:EJ:8:ARG:HG3	2:EJ:12:GLY:HA3	1.98	0.44
1:KJ:335:LYS:HD3	1:KJ:336:PRO:HD2	2.00	0.44
1:LJ:24:ASP:OD2	1:CS:125:ILE:HD13	2.17	0.44
1:LJ:54:LEU:CA	1:CS:118:THR:OG1	2.55	0.44
1:AK:163:ILE:HG22	1:KK:96:PRO:HG3	1.99	0.44
1:AK:209:GLN:HE22	1:AK:235:LEU:HB2	1.82	0.44
1:CK:255:ILE:HG23	1:CK:261:ILE:HG21	1.99	0.44
1:LK:209:GLN:NE2	1:LK:235:LEU:HB3	2.32	0.44
1:KL:133:LEU:HD21	1:KL:155:VAL:HG11	2.00	0.44
1:LL:172:ARG:NH1	1:LL:277:GLY:H	2.16	0.44
1:RL:133:LEU:HB2	2:WL:11:MET:HG2	1.99	0.44
1:SL:260:GLN:HE21	1:SL:260:GLN:HA	1.82	0.44
1:ZL:85:TYR:CD1	1:ZL:122:GLY:HA2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZL:186:THR:HG21	1:ZL:214:LYS:HD2	1.98	0.44
1:bL:361:LYS:HE2	1:bL:377:HIS:HB2	1.98	0.44
1:gL:361:LYS:HE2	1:gL:377:HIS:HB2	1.98	0.44
5:NM:233:GLU:H	5:CO:265:LEU:CD2	2.31	0.44
5:NN:271:GLN:O	5:NN:274:LEU:HD12	2.17	0.44
3:AO:24:ARG:HB2	3:AO:169:LEU:HD13	2.00	0.44
5:CO:271:GLN:O	5:CO:274:LEU:HD12	2.17	0.44
1:BP:110:LYS:HD3	1:hR:105:GLU:OE1	2.17	0.44
1:BP:254:LYS:HE2	1:BP:254:LYS:HB2	1.75	0.44
1:BP:360:LEU:HB2	2:EP:19:ARG:HH12	1.82	0.44
1:DQ:325:LYS:NZ	1:DQ:325:LYS:CB	2.73	0.44
1:LQ:172:ARG:NH1	1:LQ:277:GLY:H	2.16	0.44
1:QQ:108:MET:HG3	1:QQ:109:LEU:HD12	1.99	0.44
1:QQ:184:SER:OG	1:QQ:185:GLU:N	2.50	0.44
1:eQ:98:ASN:ND2	1:eQ:99:MET:N	2.65	0.44
2:gQ:1:MET:H3	1:iR:150:ASN:ND2	2.16	0.44
1:CR:360:LEU:HA	1:CR:360:LEU:HD13	1.88	0.44
1:DR:145:LEU:HD23	2:ER:16:GLU:HA	1.97	0.44
1:IR:289:GLN:N	1:IR:326:GLU:OE2	2.46	0.44
1:JR:168:GLU:OE2	1:KR:211:ASN:ND2	2.38	0.44
1:LR:98:ASN:ND2	1:LR:99:MET:N	2.65	0.44
1:ZR:133:LEU:HB2	2:eR:11:MET:HG2	2.00	0.44
2:FS:53:PHE:HB3	1:JS:62:LEU:HD11	1.98	0.44
1:JS:289:GLN:HB2	1:JS:326:GLU:OE2	2.17	0.44
1:C1:108:MET:HG3	1:C1:109:LEU:HD12	1.99	0.44
1:I1:108:MET:HG3	1:I1:109:LEU:HD12	1.99	0.44
1:I1:156:TYR:HE1	1:I1:360:LEU:HD11	1.81	0.44
1:I1:184:SER:OG	1:I1:185:GLU:N	2.50	0.44
1:J1:68:LEU:HD12	1:J1:161:SER:HB3	1.99	0.44
1:J1:367:PRO:O	1:L1:377:HIS:NE2	2.38	0.44
1:J1:372:VAL:HB	2:O1:11:MET:HB2	1.98	0.44
1:L1:325:LYS:NZ	1:L1:325:LYS:CB	2.73	0.44
1:Q1:81:PHE:HZ	1:Q8:136:ASN:O	1.99	0.44
1:R1:152:ALA:O	2:V1:8:ARG:NH1	2.51	0.44
2:U1:15:TYR:CZ	1:CJ:138:THR:HG21	2.52	0.44
2:W1:53:PHE:O	1:Q6:62:LEU:CD1	2.62	0.44
1:X1:184:SER:OG	1:X1:185:GLU:N	2.50	0.44
1:f1:321:VAL:HG22	1:f1:327:PHE:CE2	2.51	0.44
3:A2:66:ILE:HG21	1:KK:357:LYS:HD2	1.32	0.44
3:A2:163:GLU:HG3	3:AB:175:ILE:HD11	1.99	0.44
3:A2:202:ASN:CG	5:DC:38:TYR:HA	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:231:LEU:HD21	3:A9:237:GLU:OE1	2.17	0.44
5:D2:41:ASN:ND2	3:AF:11:GLU:O	2.50	0.44
5:C2:271:GLN:O	5:C2:274:LEU:HD12	2.17	0.44
5:N2:320:ILE:O	5:N2:321:ASP:HB2	2.17	0.44
1:A3:85:TYR:CD1	1:A3:122:GLY:HA2	2.53	0.44
1:A3:203:GLU:HB3	1:g7:248:SER:OG	2.17	0.44
1:B3:260:GLN:HE21	1:B3:260:GLN:HA	1.82	0.44
1:D3:159:LYS:NZ	1:FE:94:THR:OG1	2.34	0.44
1:I3:14:VAL:HG23	1:SL:14:VAL:HG21	1.94	0.44
1:J3:152:ALA:O	2:O3:8:ARG:NH1	2.51	0.44
1:L3:265:ASP:OD1	1:L3:265:ASP:N	2.48	0.44
1:Q3:248:SER:OG	1:J8:203:GLU:HB3	2.17	0.44
1:C4:357:LYS:CD	2:XG:17:ASP:HB2	2.47	0.44
1:A4:213:ALA:HB1	1:A4:228:GLN:HB2	2.00	0.44
1:J4:222:SER:OG	1:i7:39:TRP:O	2.33	0.44
1:Q4:14:VAL:HG23	1:KL:14:VAL:HG23	1.97	0.44
1:Q4:55:PHE:HE1	1:KL:46:PHE:HE1	1.65	0.44
1:R4:152:ALA:O	2:V4:8:ARG:NH1	2.51	0.44
1:R4:220:ARG:O	1:BS:38:LYS:HD3	2.16	0.44
1:a4:351:LYS:NZ	1:L8:60:GLU:OE2	2.43	0.44
1:g4:105:GLU:OE1	1:BK:110:LYS:HD3	2.17	0.44
1:i4:361:LYS:HD3	1:i4:377:HIS:HD2	1.81	0.44
3:A5:151:ASN:ND2	3:AN:30:LEU:HG	2.32	0.44
3:A5:163:GLU:HG3	3:AN:175:ILE:HD11	1.99	0.44
5:C5:271:GLN:O	5:C5:274:LEU:HD12	2.17	0.44
5:O5:320:ILE:O	5:O5:320:ILE:HG23	2.16	0.44
1:I6:49:PHE:HD1	1:aR:22:LEU:HD11	1.81	0.44
1:R6:85:TYR:CD1	1:R6:122:GLY:HA2	2.53	0.44
1:S6:143:GLN:C	1:AS:82:ILE:HG12	2.42	0.44
1:h6:68:LEU:HD12	1:h6:161:SER:HB3	1.99	0.44
1:h6:203:GLU:HB3	1:AE:248:SER:OG	2.17	0.44
2:k6:45:ILE:HG13	2:k6:46:HIS:HB3	1.99	0.44
1:C7:53:TYR:CD2	1:LK:223:GLY:CA	3.00	0.44
1:J7:71:ARG:HD3	2:N7:30:MET:HG2	1.99	0.44
1:L7:361:LYS:HE2	1:L7:377:HIS:HB2	1.98	0.44
1:Q7:108:MET:HG3	1:Q7:109:LEU:HD12	1.99	0.44
1:T7:361:LYS:HE2	1:T7:377:HIS:HB2	1.98	0.44
1:Y7:184:SER:OG	1:Y7:185:GLU:N	2.50	0.44
1:Z7:347:ILE:HD12	1:Z7:347:ILE:HA	1.92	0.44
1:Z7:372:VAL:HB	2:e7:11:MET:HB2	1.98	0.44
1:C8:119:LYS:HD3	1:AE:35:PHE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C8:184:SER:OG	1:C8:185:GLU:N	2.50	0.44
2:E8:45:ILE:HG13	2:E8:46:HIS:HB3	1.99	0.44
1:K8:133:LEU:HD21	1:K8:155:VAL:HG11	2.00	0.44
1:b8:265:ASP:OD1	1:b8:265:ASP:N	2.48	0.44
1:g8:30:SER:CA	1:KS:315:ALA:HB2	2.45	0.44
1:h8:55:PHE:O	1:h8:57:LYS:NZ	2.46	0.44
1:h8:213:ALA:HB1	1:h8:228:GLN:HB2	2.00	0.44
1:h8:259:PHE:HD1	1:i8:259:PHE:CE2	2.32	0.44
1:i8:39:TRP:O	1:BD:222:SER:OG	2.35	0.44
3:A9:202:ASN:CG	5:DH:38:TYR:HA	2.42	0.44
5:D9:34:ASP:OD1	5:D9:34:ASP:N	2.44	0.44
5:F9:104:ILE:HA	5:F9:107:ASP:HB2	1.98	0.44
3:AA:197:VAL:HG23	5:EH:37:ASP:OD2	2.11	0.44
3:AA:208:LYS:HE2	4:BH:251:TRP:CB	2.48	0.44
4:BA:6:MET:HE3	5:FC:38:TYR:CE2	2.45	0.44
5:EA:140:ASP:N	5:CA:139:LYS:HA	2.33	0.44
3:AB:116:VAL:N	2:MD:19:ARG:HH11	2.14	0.44
3:AB:180:PHE:HE1	3:AB:224:SER:HB2	1.82	0.44
3:AC:24:ARG:HB2	3:AC:169:LEU:HD13	2.00	0.44
5:NC:271:GLN:O	5:NC:274:LEU:HD12	2.17	0.44
5:OC:320:ILE:O	5:OC:321:ASP:HB2	2.17	0.44
1:BD:99:MET:O	1:KS:25:PHE:C	2.47	0.44
1:BD:189:ARG:HB2	1:BD:393:ILE:HG12	1.99	0.44
1:BD:350:ILE:O	2:FD:50:LYS:NZ	2.50	0.44
1:DD:384:ILE:CD1	1:KS:35:PHE:CD1	2.86	0.44
1:KD:374:HIS:HE1	2:LS:8:ARG:NH1	1.70	0.44
1:LD:184:SER:OG	1:LD:219:HIS:NE2	2.46	0.44
1:DE:123:ASN:HD21	1:BP:21:ALA:HB2	1.82	0.44
2:EE:45:ILE:CG1	2:EE:46:HIS:H	2.23	0.44
1:KE:184:SER:OG	1:KE:185:GLU:N	2.50	0.44
1:LE:68:LEU:HD12	1:LE:161:SER:HB3	1.99	0.44
1:NE:264:ILE:H	1:NE:264:ILE:HG13	1.66	0.44
1:aE:184:SER:OG	1:aE:185:GLU:N	2.50	0.44
1:cE:14:VAL:HG23	1:CG:14:VAL:HG21	1.96	0.44
1:cE:150:ASN:ND2	2:dL:1:MET:H3	2.15	0.44
2:eE:45:ILE:HG13	2:eE:46:HIS:HB3	1.99	0.44
5:DF:95:TRP:HE3	5:DF:100:THR:HG21	1.82	0.44
5:EF:136:SER:O	5:EF:140:ASP:N	2.50	0.44
1:BG:242:THR:HG21	1:BG:246:LEU:HD12	2.00	0.44
1:DG:304:GLN:NE2	1:TR:98:ASN:O	2.48	0.44
2:EG:26:LEU:HD12	1:SR:71:ARG:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LG:265:ASP:OD1	1:LG:265:ASP:N	2.48	0.44
1:RG:68:LEU:HD12	1:RG:161:SER:HB3	1.98	0.44
1:TG:325:LYS:HB2	1:TG:325:LYS:HZ3	1.79	0.44
1:YG:108:MET:HG3	1:YG:109:LEU:HD12	1.99	0.44
1:hG:41:ASN:ND2	1:hG:54:LEU:O	2.46	0.44
3:AH:175:ILE:HD11	3:AN:163:GLU:HG3	1.99	0.44
5:EH:17:PHE:HB2	5:EN:62:ARG:NH2	2.32	0.44
3:AI:24:ARG:HB2	3:AI:169:LEU:HD13	2.00	0.44
3:AI:112:ILE:CD1	2:MJ:6:ASN:CA	2.68	0.44
4:BI:32:PHE:HD2	5:FM:55:LEU:HD11	1.64	0.44
5:CI:265:LEU:CD2	5:NO:233:GLU:H	2.31	0.44
1:CJ:147:ASP:N	1:CJ:147:ASP:OD1	2.47	0.44
1:DJ:120:LEU:HB3	1:LP:39:TRP:HB2	1.99	0.44
2:EJ:8:ARG:HH11	2:EJ:10:MET:H	1.64	0.44
2:HJ:34:THR:HB	1:LJ:209:GLN:HB3	2.00	0.44
1:LJ:30:SER:CB	1:AS:98:ASN:HD22	2.23	0.44
1:LJ:38:LYS:O	1:CS:222:SER:CB	2.65	0.44
1:CK:346:ASP:OD1	1:CK:346:ASP:N	2.45	0.44
1:DK:279:VAL:HG12	1:DK:318:THR:HA	2.00	0.44
1:KK:194:LYS:HE2	1:KK:194:LYS:HB3	1.82	0.44
1:DL:361:LYS:HE2	1:DL:377:HIS:HB2	1.98	0.44
1:IL:184:SER:OG	1:IL:185:GLU:N	2.50	0.44
1:IL:321:VAL:HG22	1:IL:327:PHE:CE2	2.51	0.44
2:ML:45:ILE:HG13	2:ML:46:HIS:HB3	1.99	0.44
1:RL:73:ASN:HB2	1:RL:354:ARG:HH22	1.83	0.44
1:RL:152:ALA:O	2:WL:8:ARG:NH1	2.51	0.44
1:aL:133:LEU:HD21	1:aL:155:VAL:HG11	2.00	0.44
1:gL:235:LEU:HD22	1:gL:264:ILE:HG21	1.99	0.44
5:EM:44:SER:OG	4:BO:4:TYR:HD2	2.01	0.44
5:CN:271:GLN:O	5:CN:274:LEU:HD12	2.17	0.44
3:AO:79:MET:HE2	3:AO:79:MET:HB3	1.81	0.44
3:AO:112:ILE:CG2	2:LS:51:GLN:NE2	2.80	0.44
1:AP:91:ILE:HG13	1:LP:158:LYS:HD2	1.99	0.44
1:AP:253:THR:O	1:AP:257:ASN:HB2	2.16	0.44
1:BP:346:ASP:OD1	1:BP:346:ASP:N	2.50	0.44
1:AQ:55:PHE:O	1:AQ:57:LYS:NZ	2.46	0.44
1:AQ:85:TYR:CD1	1:AQ:122:GLY:HA2	2.53	0.44
1:AQ:133:LEU:HB2	2:GQ:11:MET:HG2	2.00	0.44
1:BQ:133:LEU:HD21	1:BQ:155:VAL:HG11	2.00	0.44
1:JQ:85:TYR:CD1	1:JQ:122:GLY:HA2	2.53	0.44
1:KQ:260:GLN:HA	1:KQ:260:GLN:HE21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:SQ:242:THR:HG21	1:SQ:246:LEU:HD12	2.00	0.44
1:TQ:265:ASP:OD1	1:TQ:265:ASP:N	2.48	0.44
1:DR:98:ASN:ND2	1:DR:99:MET:N	2.65	0.44
1:JR:55:PHE:O	1:JR:57:LYS:NZ	2.46	0.44
1:JR:73:ASN:HB2	1:JR:354:ARG:HH22	1.82	0.44
1:RR:85:TYR:CD1	1:RR:122:GLY:HA2	2.53	0.44
2:UR:45:ILE:HG13	2:UR:46:HIS:HB3	1.99	0.44
1:iR:362:PRO:HA	1:iR:363:PRO:HD3	1.79	0.44
2:kR:22:LYS:HD2	2:kR:22:LYS:HA	1.73	0.44
1:BS:255:ILE:HG23	1:BS:261:ILE:HG21	1.99	0.44
1:IS:243:THR:HG22	1:IS:276:LEU:HD23	2.00	0.44
1:C1:184:SER:OG	1:C1:185:GLU:N	2.50	0.44
1:A1:152:ALA:O	2:G1:8:ARG:NH1	2.51	0.44
1:A1:203:GLU:HB3	1:C6:248:SER:OG	2.17	0.44
1:A1:362:PRO:HA	1:A1:363:PRO:HD3	1.83	0.44
1:R1:73:ASN:HB2	1:R1:354:ARG:HH22	1.83	0.44
1:R1:87:GLU:OE1	1:CJ:55:PHE:CB	2.65	0.44
1:R1:188:VAL:HG12	1:R1:392:LEU:HD23	2.00	0.44
1:X1:14:VAL:HG23	1:K8:14:VAL:HG21	1.94	0.44
1:Z1:71:ARG:H	2:c7:26:LEU:HD12	1.81	0.44
1:f1:248:SER:OG	1:AQ:203:GLU:HB3	2.17	0.44
1:g1:73:ASN:HB2	1:g1:354:ARG:HH22	1.83	0.44
1:h1:260:GLN:HE21	1:h1:260:GLN:HA	1.82	0.44
3:A2:24:ARG:HB2	3:A2:169:LEU:HD13	2.00	0.44
4:B2:53:ILE:HA	4:B2:53:ILE:HD12	1.85	0.44
5:E2:140:ASP:O	5:C2:140:ASP:CA	2.65	0.44
1:C3:55:PHE:HE1	1:SG:46:PHE:HE1	1.65	0.44
1:A3:73:ASN:HB2	1:A3:354:ARG:HH22	1.83	0.44
1:B3:19:LYS:NZ	1:B3:37:ASP:OD1	2.37	0.44
1:J3:71:ARG:HD3	2:N3:30:MET:HG2	1.99	0.44
1:Q3:35:PHE:O	1:X4:119:LYS:HD3	2.17	0.44
1:R3:85:TYR:CD1	1:R3:122:GLY:HA2	2.53	0.44
1:R3:152:ALA:O	2:W3:8:ARG:NH1	2.51	0.44
1:S3:242:THR:HG21	1:S3:246:LEU:HD12	2.00	0.44
1:Y3:265:ASP:N	1:Y3:265:ASP:OD1	2.48	0.44
2:d3:11:MET:HG2	1:BD:133:LEU:HG	1.97	0.44
1:A4:152:ALA:O	2:G4:8:ARG:NH1	2.51	0.44
2:E4:45:ILE:HG13	2:E4:46:HIS:HB3	1.99	0.44
1:J4:133:LEU:HB2	2:O4:11:MET:HG2	2.00	0.44
1:R4:68:LEU:HD12	1:R4:161:SER:HB3	1.98	0.44
1:R4:98:ASN:HD22	1:DD:30:SER:CB	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R4:203:GLU:HB3	1:g8:248:SER:OG	2.17	0.44
1:T4:361:LYS:HD3	1:T4:377:HIS:HD2	1.81	0.44
1:Y4:41:ASN:ND2	1:Y4:54:LEU:O	2.46	0.44
1:Z4:372:VAL:HG11	2:N8:11:MET:HB2	1.99	0.44
1:f4:81:PHE:CE2	1:gG:139:ARG:HB2	2.51	0.44
1:h4:14:VAL:HG23	1:gG:14:VAL:HG23	1.97	0.44
1:i4:368:GLU:CG	1:LD:107:LEU:HD11	2.47	0.44
4:B5:250:ILE:CD1	3:AH:209:MET:HA	2.33	0.44
5:F5:38:TYR:CE2	4:BN:6:MET:HE3	2.45	0.44
1:C6:108:MET:HG3	1:C6:109:LEU:HD12	1.99	0.44
1:J6:152:ALA:O	2:O6:8:ARG:NH1	2.51	0.44
1:Y6:63:LEU:HD13	1:LE:89:TYR:HE2	1.71	0.44
1:g6:27:HIS:ND1	1:LP:310:THR:O	2.40	0.44
1:g6:184:SER:OG	1:g6:185:GLU:N	2.50	0.44
1:C7:28:ASP:O	1:AK:98:ASN:HB3	2.17	0.44
1:A7:73:ASN:HB2	1:A7:354:ARG:HH22	1.83	0.44
1:A7:133:LEU:HB2	2:G7:11:MET:HG2	1.99	0.44
1:I7:184:SER:OG	1:I7:185:GLU:N	2.50	0.44
1:K7:242:THR:HG21	1:K7:246:LEU:HD12	2.00	0.44
1:T7:235:LEU:HD22	1:T7:264:ILE:HG21	1.99	0.44
1:C8:108:MET:HG3	1:C8:109:LEU:HD12	1.99	0.44
1:A8:68:LEU:HD12	1:A8:161:SER:HB3	1.99	0.44
1:I8:14:VAL:HG21	1:KR:14:VAL:HG23	1.96	0.44
1:J8:71:ARG:HD3	2:N8:30:MET:HG2	1.99	0.44
1:Q8:119:LYS:HD3	1:IG:35:PHE:O	2.17	0.44
1:R8:71:ARG:HD3	2:V8:30:MET:HG2	1.99	0.44
1:R8:73:ASN:HB2	1:R8:354:ARG:HH22	1.82	0.44
1:R8:367:PRO:O	1:T8:377:HIS:NE2	2.38	0.44
1:Y8:81:PHE:HD2	1:bQ:139:ARG:HD3	1.64	0.44
1:a8:14:VAL:HG23	1:bQ:14:VAL:HG23	1.97	0.44
1:b8:361:LYS:HD3	1:b8:377:HIS:HD2	1.81	0.44
1:g8:53:TYR:CD2	1:KS:223:GLY:CA	3.00	0.44
1:h8:152:ALA:O	2:m8:8:ARG:NH1	2.51	0.44
1:i8:14:VAL:HA	1:DD:45:MET:CB	2.33	0.44
2:k8:44:GLN:HB3	2:k8:45:ILE:H	1.63	0.44
3:A9:311:ILE:CD1	3:AA:258:LYS:HE3	2.47	0.44
5:C9:265:LEU:CD2	5:NA:233:GLU:H	2.31	0.44
3:AA:9:ASN:N	5:FC:29:THR:HA	2.33	0.44
3:AA:202:ASN:CG	5:DN:38:TYR:HA	2.42	0.44
5:EA:38:TYR:HE2	5:EC:45:TYR:HB3	1.83	0.44
5:EA:140:ASP:O	5:CA:140:ASP:CA	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:104:GLN:CB	1:KP:359:MET:CE	2.73	0.44
3:AC:311:ILE:CD1	3:AH:258:LYS:HE3	2.47	0.44
1:AD:170:GLU:HG3	1:KK:32:SER:OG	2.17	0.44
1:DD:12:LEU:HG	1:DD:14:VAL:H	1.82	0.44
1:DD:170:GLU:HA	1:KS:33:TRP:HZ3	1.83	0.44
1:LD:174:MET:CE	1:YG:32:SER:HB2	2.47	0.44
1:DE:265:ASP:OD1	1:DE:265:ASP:N	2.48	0.44
1:BE:85:TYR:CD1	1:BE:122:GLY:HA2	2.53	0.44
1:BE:104:ASN:O	1:DJ:369:PHE:CZ	2.69	0.44
1:aE:248:SER:OG	1:AR:203:GLU:HB3	2.17	0.44
1:cE:137:ASP:OD1	1:CG:48:THR:HG22	2.17	0.44
2:eE:44:GLN:HB3	2:eE:45:ILE:H	1.63	0.44
3:AF:24:ARG:HB2	3:AF:169:LEU:HD13	2.00	0.44
3:AF:163:GLU:OE2	3:AF:241:LYS:NZ	2.43	0.44
5:EF:44:SER:OG	4:BM:4:TYR:HD2	2.01	0.44
1:AG:152:ALA:O	2:GG:8:ARG:NH1	2.51	0.44
1:AG:203:GLU:HB3	1:YL:248:SER:OG	2.17	0.44
1:AG:259:PHE:CD1	1:YL:259:PHE:CE1	2.98	0.44
1:BG:133:LEU:HD21	1:BG:155:VAL:HG11	2.00	0.44
1:JG:133:LEU:HB2	2:OG:11:MET:HG2	2.00	0.44
1:RG:152:ALA:O	2:WG:8:ARG:NH1	2.51	0.44
1:aG:57:LYS:HA	1:DK:143:GLN:HE21	1.82	0.44
3:AH:9:ASN:N	5:FN:29:THR:HA	2.33	0.44
3:AH:150:TYR:CE2	1:AP:145:LEU:HB3	2.52	0.44
3:AH:231:LEU:HD21	3:AN:237:GLU:OE1	2.17	0.44
5:DH:33:ASP:HB2	1:AP:140:PHE:CE2	2.52	0.44
1:AJ:43:ASN:CB	5:DN:25:ARG:NH1	2.80	0.44
1:AJ:70:ASN:O	1:AJ:72:PHE:N	2.49	0.44
1:DJ:279:VAL:HG12	1:DJ:318:THR:HA	2.00	0.44
2:FJ:31:SER:HA	2:FJ:35:ASN:HB3	2.00	0.44
1:LJ:22:LEU:HD21	1:JS:48:THR:HA	1.94	0.44
1:LJ:22:LEU:HD23	1:JS:47:GLU:CD	2.38	0.44
1:LJ:184:SER:OG	1:LJ:219:HIS:NE2	2.46	0.44
1:BK:350:ILE:O	2:FK:50:LYS:NZ	2.50	0.44
1:LK:38:LYS:O	1:DP:222:SER:CB	2.65	0.44
1:LK:346:ASP:OD1	1:LK:346:ASP:N	2.50	0.44
2:NK:11:MET:HA	2:NK:15:TYR:HB2	1.98	0.44
1:CL:184:SER:OG	1:CL:185:GLU:N	2.50	0.44
1:AL:71:ARG:HD3	2:FL:30:MET:HG2	1.99	0.44
1:IL:248:SER:OG	1:ZR:203:GLU:HB3	2.17	0.44
1:RL:188:VAL:HG12	1:RL:392:LEU:HD23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:UL:45:ILE:HG13	2:UL:46:HIS:HB3	1.99	0.44
2:XL:53:PHE:O	1:QR:62:LEU:CD1	2.62	0.44
3:AM:150:TYR:HB3	1:IS:135:ASN:ND2	2.33	0.44
3:AO:69:VAL:HG13	3:AO:80:ILE:HB	2.00	0.44
5:NO:271:GLN:O	5:NO:274:LEU:HD12	2.17	0.44
1:KP:289:GLN:HB2	1:KP:326:GLU:OE2	2.17	0.44
1:DQ:82:ILE:HD13	1:DQ:82:ILE:HA	1.85	0.44
1:JQ:73:ASN:HB2	1:JQ:354:ARG:HH22	1.83	0.44
1:cQ:41:ASN:ND2	1:cQ:54:LEU:O	2.46	0.44
1:AR:71:ARG:HD3	2:FR:30:MET:HG2	1.99	0.44
1:AR:133:LEU:HB2	2:GR:11:MET:HG2	1.99	0.44
1:BR:242:THR:HG21	1:BR:246:LEU:HD12	2.00	0.44
1:LR:235:LEU:HD22	1:LR:264:ILE:HG21	1.99	0.44
1:QR:184:SER:OG	1:QR:185:GLU:N	2.50	0.44
1:ZR:55:PHE:O	1:ZR:57:LYS:NZ	2.46	0.44
1:ZR:85:TYR:CD1	1:ZR:122:GLY:HA2	2.53	0.44
1:aR:133:LEU:HD21	1:aR:155:VAL:HG11	2.00	0.44
1:BS:240:ILE:HB	1:BS:344:ILE:HG22	1.99	0.44
1:CS:162:ASP:N	1:CS:162:ASP:OD1	2.49	0.44
2:GS:34:THR:HB	1:KS:209:GLN:HB3	2.00	0.44
1:KS:346:ASP:OD1	1:KS:346:ASP:N	2.50	0.44
1:C1:248:SER:OG	1:A6:203:GLU:HB3	2.17	0.44
1:C1:360:LEU:HD21	2:H6:22:LYS:HG2	1.94	0.44
2:M1:45:ILE:HG13	2:M1:46:HIS:HB3	1.99	0.44
1:T1:14:VAL:HG13	1:BJ:46:PHE:CE2	2.53	0.44
1:T1:136:ASN:HD21	1:LJ:99:MET:CE	2.31	0.44
1:Y1:73:ASN:HB2	1:Y1:354:ARG:HH22	1.83	0.44
1:Y1:101:LEU:HD21	1:CL:136:ASN:HD21	1.82	0.44
1:Y1:133:LEU:HB2	2:d1:11:MET:HG2	1.99	0.44
3:A2:11:GLU:O	5:E9:40:THR:OG1	2.30	0.44
3:A2:61:ALA:HA	1:KK:357:LYS:HZ2	1.83	0.44
3:A2:66:ILE:N	1:KK:357:LYS:HE2	2.32	0.44
5:C2:265:LEU:CD2	5:N9:233:GLU:H	2.31	0.44
1:A3:188:VAL:HG12	1:A3:392:LEU:HD23	2.00	0.44
1:I3:136:ASN:O	1:QL:81:PHE:HZ	1.99	0.44
1:J3:71:ARG:H	2:N3:26:LEU:HD12	1.83	0.44
1:J3:73:ASN:HB2	1:J3:354:ARG:HH22	1.82	0.44
1:L3:98:ASN:ND2	1:L3:99:MET:N	2.65	0.44
1:Q3:119:LYS:HD3	1:CR:35:PHE:O	2.17	0.44
1:Q3:357:LYS:CD	2:P8:17:ASP:HB2	2.47	0.44
1:R3:41:ASN:ND2	1:R3:54:LEU:O	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R3:55:PHE:O	1:R3:57:LYS:NZ	2.46	0.44
1:R3:188:VAL:HG12	1:R3:392:LEU:HD23	2.00	0.44
1:S3:133:LEU:HD21	1:S3:155:VAL:HG11	2.00	0.44
2:Z3:45:ILE:CG1	2:Z3:46:HIS:H	2.23	0.44
2:a3:15:TYR:HE2	1:BK:133:LEU:HD12	1.83	0.44
1:C4:35:PHE:O	1:CG:119:LYS:HD3	2.17	0.44
1:J4:188:VAL:HG12	1:J4:392:LEU:HD23	2.00	0.44
1:K4:242:THR:HG21	1:K4:246:LEU:HD12	2.00	0.44
1:Q4:248:SER:OG	1:h8:203:GLU:HB3	2.17	0.44
1:S4:46:PHE:HE1	1:IQ:55:PHE:HE1	1.65	0.44
1:T4:172:ARG:NH1	1:T4:277:GLY:H	2.16	0.44
2:W4:17:ASP:HB2	1:g8:357:LYS:CD	2.47	0.44
1:X4:14:VAL:HG23	1:BR:14:VAL:HG23	1.97	0.44
1:Y4:73:ASN:HB2	1:Y4:354:ARG:HH22	1.83	0.44
3:A5:149:GLN:HG2	1:AJ:149:THR:HG23	1.99	0.44
3:A5:152:SER:O	1:AJ:139:ARG:NH2	2.46	0.44
3:A5:180:PHE:HE1	3:A5:224:SER:HB2	1.82	0.44
3:A5:208:LYS:HE2	4:BO:251:TRP:CB	2.48	0.44
1:C6:184:SER:OG	1:C6:185:GLU:N	2.50	0.44
1:A6:152:ALA:O	2:G6:8:ARG:NH1	2.51	0.44
1:K6:372:VAL:HG11	2:lG:11:MET:HB2	1.99	0.44
1:Q6:143:GLN:CA	1:LJ:82:ILE:HG12	2.19	0.44
1:Q6:184:SER:OG	1:Q6:185:GLU:N	2.50	0.44
1:T6:98:ASN:O	1:YQ:304:GLN:NE2	2.48	0.44
2:U6:45:ILE:HG13	2:U6:46:HIS:H	1.66	0.44
2:U6:45:ILE:HG13	2:U6:46:HIS:HB3	1.99	0.44
1:Y6:119:LYS:HD3	1:SE:35:PHE:O	2.17	0.44
1:Z6:85:TYR:CD1	1:Z6:122:GLY:HA2	2.53	0.44
1:Z6:133:LEU:HB2	2:e6:11:MET:HG2	1.99	0.44
1:h6:115:ARG:NH2	1:AE:300:TYR:CA	2.75	0.44
1:i6:133:LEU:HD21	1:i6:155:VAL:HG11	2.00	0.44
1:C7:108:MET:HG3	1:C7:109:LEU:HD12	1.99	0.44
1:A7:101:LEU:HD21	1:I7:136:ASN:HD21	1.82	0.44
1:B7:30:SER:CB	1:CP:98:ASN:ND2	2.79	0.44
1:I7:55:PHE:HE1	1:iR:46:PHE:HE1	1.65	0.44
1:I7:361:LYS:HZ2	1:CQ:370:ASP:CG	2.26	0.44
1:Q7:302:ASP:CG	1:QR:29:TYR:HH	2.05	0.44
1:S7:71:ARG:H	2:UL:26:LEU:HD12	1.81	0.44
1:Y7:35:PHE:O	1:QQ:119:LYS:HD3	2.17	0.44
1:Y7:55:PHE:HE1	1:SQ:46:PHE:HE1	1.65	0.44
1:h7:133:LEU:HB2	2:m7:11:MET:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j7:82:ILE:HD13	1:j7:82:ILE:HA	1.85	0.44
1:j7:235:LEU:HD22	1:j7:264:ILE:HG21	1.99	0.44
1:A8:41:ASN:ND2	1:A8:54:LEU:O	2.46	0.44
1:A8:152:ALA:O	2:G8:8:ARG:NH1	2.51	0.44
2:F8:22:LYS:HA	2:F8:22:LYS:HD2	1.73	0.44
1:J8:73:ASN:HB2	1:J8:354:ARG:HH22	1.83	0.44
1:R8:71:ARG:H	2:V8:26:LEU:HD12	1.83	0.44
1:T8:265:ASP:OD1	1:T8:265:ASP:N	2.48	0.44
1:i8:140:PHE:CD1	1:BD:84:GLN:HB3	2.53	0.44
5:E9:38:TYR:HE2	5:EA:45:TYR:HB3	1.83	0.44
5:E9:64:TRP:HE1	4:BB:30:LEU:N	2.00	0.44
5:DA:95:TRP:HE3	5:DA:100:THR:HG21	1.82	0.44
5:OA:271:GLN:O	5:OA:274:LEU:HD12	2.17	0.44
3:AB:69:VAL:HG13	3:AB:80:ILE:HB	1.99	0.44
5:EB:13:ASP:N	5:EB:13:ASP:OD1	2.45	0.44
3:AC:69:VAL:HG13	3:AC:80:ILE:HB	2.00	0.44
5:CC:320:ILE:O	5:CC:321:ASP:HB2	2.17	0.44
1:AD:158:LYS:HZ1	1:KD:92:MET:C	2.26	0.44
1:BD:360:LEU:HB2	2:ED:19:ARG:HH12	1.83	0.44
1:KD:16:LYS:H	1:KS:45:MET:CE	2.24	0.44
1:LD:33:TRP:HZ3	1:DK:170:GLU:HA	1.83	0.44
1:LD:35:PHE:CZ	1:DK:178:TYR:CB	2.90	0.44
2:MD:6:ASN:HA	1:KK:153:LEU:HD23	2.00	0.44
1:AE:184:SER:OG	1:AE:185:GLU:N	2.50	0.44
1:BE:110:LYS:CE	1:AP:106:GLU:OE1	2.65	0.44
1:BE:133:LEU:HB2	2:IE:11:MET:HG2	1.99	0.44
1:CE:133:LEU:HD21	1:CE:155:VAL:HG11	2.00	0.44
1:FE:265:ASP:OD1	1:FE:265:ASP:N	2.48	0.44
1:KE:119:LYS:HD3	1:QQ:35:PHE:O	2.17	0.44
1:LE:213:ALA:HB1	1:LE:228:GLN:HB2	2.00	0.44
1:VE:235:LEU:HD22	1:VE:264:ILE:HG21	1.99	0.44
1:bE:188:VAL:HG12	1:bE:392:LEU:HD23	2.00	0.44
1:bE:213:ALA:HB1	1:bE:228:GLN:HB2	2.00	0.44
3:AF:258:LYS:HE3	3:AM:311:ILE:CD1	2.47	0.44
5:NF:271:GLN:O	5:NF:274:LEU:HD12	2.17	0.44
1:JG:188:VAL:HG12	1:JG:392:LEU:HD23	2.00	0.44
1:KG:242:THR:HG21	1:KG:246:LEU:HD12	2.00	0.44
1:LG:82:ILE:HD13	1:LG:82:ILE:HA	1.85	0.44
1:ZG:73:ASN:HB2	1:ZG:354:ARG:HH22	1.83	0.44
1:aG:27:HIS:CG	1:BK:312:PRO:HD3	2.53	0.44
1:hG:55:PHE:O	1:hG:57:LYS:NZ	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:29:ARG:HH12	1:AJ:53:TYR:CB	2.30	0.44
3:AH:311:ILE:CD1	3:AN:258:LYS:HE3	2.47	0.44
4:BH:141:THR:OG1	4:BH:196:SER:OG	2.34	0.44
5:FH:31:PHE:HE2	5:FN:47:ASP:CA	2.13	0.44
5:CH:320:ILE:O	5:CH:321:ASP:HB2	2.17	0.44
3:AI:180:PHE:HE1	3:AI:224:SER:HB2	1.82	0.44
3:AI:197:VAL:HG23	5:EM:37:ASP:OD2	2.11	0.44
5:CI:266:THR:CB	5:NO:230:SER:C	2.89	0.44
5:NI:271:GLN:O	5:NI:274:LEU:HD12	2.17	0.44
1:BJ:133:LEU:HD12	2:iL:15:TYR:HE2	1.83	0.44
1:DJ:115:ARG:HH12	1:KJ:299:ALA:HA	1.82	0.44
1:DJ:123:ASN:HD21	1:LP:21:ALA:HA	1.83	0.44
1:DJ:265:ASP:OD2	2:GJ:41:TYR:HE1	1.96	0.44
1:DJ:289:GLN:N	1:DJ:326:GLU:OE2	2.43	0.44
1:DJ:382:LYS:HD2	1:LP:34:THR:O	2.18	0.44
1:KJ:48:THR:HA	1:LP:22:LEU:HD21	1.94	0.44
1:AK:243:THR:HG22	1:AK:276:LEU:HD23	2.00	0.44
1:KK:105:GLU:CD	1:DP:109:LEU:CG	2.90	0.44
1:KK:287:LYS:HZ3	1:KK:309:ASP:H	1.66	0.44
1:LK:34:THR:O	1:DP:382:LYS:HD2	2.18	0.44
1:LK:38:LYS:HB3	1:DP:222:SER:HA	2.00	0.44
1:LK:51:ASN:HB3	1:LK:54:LEU:HD13	1.99	0.44
2:NK:34:THR:HA	2:NK:36:LYS:HG2	1.99	0.44
1:AL:152:ALA:O	2:GL:8:ARG:NH1	2.51	0.44
1:BL:242:THR:HG21	1:BL:246:LEU:HD12	2.00	0.44
1:DL:361:LYS:HD3	1:DL:377:HIS:HD2	1.81	0.44
2:FL:22:LYS:HD2	2:FL:22:LYS:HA	1.73	0.44
1:IL:362:PRO:HA	1:IL:363:PRO:HD3	1.84	0.44
5:ON:271:GLN:O	5:ON:274:LEU:HD12	2.17	0.44
3:AO:81:LEU:HD21	2:LS:55:GLY:H	1.82	0.44
5:NO:320:ILE:O	5:NO:321:ASP:HB2	2.17	0.44
1:AP:92:MET:SD	1:AP:92:MET:N	2.86	0.44
1:DP:115:ARG:HH12	1:KP:299:ALA:HA	1.82	0.44
1:LP:173:ALA:HB2	1:LP:279:VAL:HG11	1.98	0.44
1:AQ:71:ARG:HD3	2:FQ:30:MET:HG2	1.99	0.44
1:BQ:22:LEU:HD11	1:gR:49:PHE:HD1	1.81	0.44
1:DQ:265:ASP:OD1	1:DQ:265:ASP:N	2.48	0.44
2:EQ:45:ILE:HG13	2:EQ:46:HIS:HB3	1.99	0.44
1:JQ:188:VAL:HG12	1:JQ:392:LEU:HD23	2.00	0.44
1:JQ:213:ALA:HB1	1:JQ:228:GLN:HB2	2.00	0.44
1:YQ:361:LYS:HE2	1:YQ:377:HIS:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RR:152:ALA:O	2:WR:8:ARG:NH1	2.51	0.44
2:cR:45:ILE:HG13	2:cR:46:HIS:HB3	1.99	0.44
1:hR:152:ALA:O	2:lR:8:ARG:NH1	2.51	0.44
1:hR:168:GLU:OE2	1:iR:211:ASN:ND2	2.38	0.44
1:IS:253:THR:O	1:IS:257:ASN:HB2	2.17	0.44
1:IS:354:ARG:NH2	2:LS:24:THR:OG1	2.51	0.44
1:A1:71:ARG:H	2:F1:26:LEU:HD12	1.83	0.44
2:E1:45:ILE:HG13	2:E1:46:HIS:HB3	1.99	0.44
1:J1:41:ASN:ND2	1:J1:54:LEU:O	2.46	0.44
1:J1:152:ALA:O	2:O1:8:ARG:NH1	2.51	0.44
1:J1:213:ALA:HB1	1:J1:228:GLN:HB2	2.00	0.44
1:K1:71:ARG:H	2:OE:26:LEU:HD12	1.82	0.44
1:R1:213:ALA:HB1	1:R1:228:GLN:HB2	2.00	0.44
1:S1:39:TRP:O	1:J3:222:SER:OG	2.33	0.44
1:S1:106:GLU:HG3	1:LJ:109:LEU:HD13	1.99	0.44
1:S1:174:MET:HE3	1:S1:382:LYS:HB3	2.00	0.44
1:T1:146:ALA:O	2:HJ:2:TYR:HE1	2.00	0.44
1:X1:55:PHE:HE1	1:K8:46:PHE:HE1	1.65	0.44
1:X1:108:MET:HG3	1:X1:109:LEU:HD12	1.99	0.44
1:X1:248:SER:OG	1:J6:203:GLU:HB3	2.17	0.44
1:a1:44:THR:OG1	1:a1:45:MET:N	2.51	0.44
1:a1:235:LEU:HD22	1:a1:264:ILE:HG21	1.99	0.44
1:a1:361:LYS:HE2	1:a1:377:HIS:HB2	1.98	0.44
2:e1:17:ASP:HB2	1:I6:357:LYS:CD	2.46	0.44
1:f1:184:SER:OG	1:f1:185:GLU:N	2.50	0.44
1:g1:152:ALA:O	2:l1:8:ARG:NH1	2.51	0.44
2:k1:1:MET:H3	1:K7:150:ASN:ND2	2.15	0.44
3:A2:208:LYS:HE2	4:BA:251:TRP:CB	2.48	0.44
5:E2:44:SER:OG	4:BB:4:TYR:HD2	2.01	0.44
5:E2:45:TYR:HB3	5:EB:38:TYR:HE2	1.83	0.44
5:N2:228:ARG:HH22	5:CB:264:GLY:CA	2.25	0.44
1:A3:213:ALA:HB1	1:A3:228:GLN:HB2	2.00	0.44
1:I3:119:LYS:HD3	1:I4:35:PHE:O	2.17	0.44
1:L3:172:ARG:NH1	1:L3:277:GLY:H	2.16	0.44
1:Q3:136:ASN:HD21	1:Z8:101:LEU:HD21	1.82	0.44
1:R3:73:ASN:HB2	1:R3:354:ARG:HH22	1.83	0.44
2:U3:45:ILE:CG1	2:U3:46:HIS:H	2.23	0.44
2:d3:11:MET:HB2	1:BD:372:VAL:CB	2.45	0.44
1:A4:85:TYR:CD1	1:A4:122:GLY:HA2	2.53	0.44
1:A4:203:GLU:HB3	1:QG:248:SER:OG	2.17	0.44
1:D4:82:ILE:HD13	1:D4:82:ILE:HA	1.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J4:152:ALA:O	2:O4:8:ARG:NH1	2.51	0.44
1:J4:372:VAL:HB	2:O4:11:MET:HB2	1.98	0.44
1:R4:55:PHE:O	1:R4:57:LYS:NZ	2.46	0.44
1:R4:104:ASN:O	1:DD:369:PHE:CZ	2.69	0.44
1:T4:325:LYS:HB2	1:T4:325:LYS:HZ3	1.79	0.44
1:Z4:150:ASN:ND2	2:N8:1:MET:N	2.61	0.44
1:g4:119:LYS:CE	1:CD:38:LYS:CD	2.96	0.44
1:g4:213:ALA:HB1	1:g4:228:GLN:HB2	2.00	0.44
5:D5:38:TYR:HB3	3:AC:202:ASN:HD22	1.78	0.44
5:E5:140:ASP:N	5:C5:139:LYS:CA	2.81	0.44
1:A6:41:ASN:ND2	1:A6:54:LEU:O	2.46	0.44
1:A6:71:ARG:H	2:F6:26:LEU:HD12	1.83	0.44
1:J6:73:ASN:HB2	1:J6:354:ARG:HH22	1.83	0.44
1:L6:235:LEU:HD22	1:L6:264:ILE:HG21	1.99	0.44
2:M6:45:ILE:HG13	2:M6:46:HIS:HB3	1.99	0.44
1:Q6:14:VAL:CG1	1:CJ:45:MET:HE3	2.33	0.44
1:R6:152:ALA:O	2:W6:8:ARG:NH1	2.51	0.44
1:S6:21:ALA:CB	1:CS:47:GLU:O	2.58	0.44
1:S6:50:VAL:HG21	1:CS:137:ASP:OD1	2.18	0.44
1:Y6:184:SER:OG	1:Y6:185:GLU:N	2.50	0.44
1:a6:133:LEU:HD21	1:a6:155:VAL:HG11	2.00	0.44
1:h6:85:TYR:CD1	1:h6:122:GLY:HA2	2.53	0.44
1:h6:213:ALA:HB1	1:h6:228:GLN:HB2	2.00	0.44
1:j6:98:ASN:O	1:gL:304:GLN:NE2	2.48	0.44
1:C7:37:ASP:O	1:LK:119:LYS:NZ	2.49	0.44
1:C7:248:SER:OG	1:hR:203:GLU:HB3	2.17	0.44
1:B7:71:ARG:H	2:EE:26:LEU:HD12	1.81	0.44
1:B7:133:LEU:HD21	1:B7:155:VAL:HG11	2.00	0.44
1:D7:44:THR:OG1	1:D7:45:MET:N	2.51	0.44
1:D7:235:LEU:HD22	1:D7:264:ILE:HG21	1.99	0.44
1:D7:361:LYS:HE2	1:D7:377:HIS:HB2	1.98	0.44
1:J7:152:ALA:O	2:O7:8:ARG:NH1	2.51	0.44
1:L7:361:LYS:HD3	1:L7:377:HIS:HD2	1.81	0.44
2:N7:11:MET:HB2	1:a8:372:VAL:HG11	1.99	0.44
1:Q7:119:LYS:HD3	1:QR:35:PHE:O	2.17	0.44
1:R7:68:LEU:HD12	1:R7:161:SER:HB3	1.99	0.44
1:R7:71:ARG:HD3	2:V7:30:MET:HG2	1.99	0.44
1:R7:203:GLU:HB3	1:QQ:248:SER:OG	2.17	0.44
1:T7:304:GLN:NE2	1:NE:98:ASN:O	2.48	0.44
1:b7:265:ASP:OD1	1:b7:265:ASP:N	2.48	0.44
1:g7:35:PHE:O	1:AE:119:LYS:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h7:73:ASN:HB2	1:h7:354:ARG:HH22	1.83	0.44
1:A8:213:ALA:HB1	1:A8:228:GLN:HB2	2.00	0.44
1:D8:325:LYS:NZ	1:D8:325:LYS:CB	2.73	0.44
1:Y8:81:PHE:CE2	1:bQ:139:ARG:HB2	2.51	0.44
1:h8:85:TYR:CD1	1:h8:122:GLY:HA2	2.53	0.44
3:AA:30:LEU:HG	3:AC:151:ASN:ND2	2.32	0.44
3:AB:114:PHE:N	2:MD:22:LYS:N	2.65	0.44
3:AB:159:HIS:CD2	3:AF:23:HIS:CE1	3.06	0.44
4:BB:251:TRP:CB	3:AM:208:LYS:HE2	2.48	0.44
5:EB:140:ASP:N	5:CB:139:LYS:HA	2.33	0.44
4:BC:86:ILE:HD12	4:BC:86:ILE:HA	1.91	0.44
5:OC:271:GLN:O	5:OC:274:LEU:HD12	2.17	0.44
1:BD:254:LYS:HE2	1:BD:254:LYS:HB2	1.75	0.44
1:DD:162:ASP:OD1	1:DD:162:ASP:N	2.49	0.44
2:FD:31:SER:HA	2:FD:35:ASN:HB3	2.00	0.44
1:KD:240:ILE:HG13	1:KD:270:VAL:HA	1.99	0.44
1:LD:30:SER:CB	1:BK:98:ASN:HD22	2.23	0.44
1:LD:45:MET:HE3	1:KK:19:LYS:HE2	2.00	0.44
1:FE:82:ILE:HD13	1:FE:82:ILE:HA	1.85	0.44
1:LE:85:TYR:CD1	1:LE:122:GLY:HA2	2.53	0.44
1:ME:133:LEU:HD21	1:ME:155:VAL:HG11	2.00	0.44
1:TE:133:LEU:HB2	2:YE:11:MET:HG2	1.99	0.44
1:UE:39:TRP:O	1:JG:222:SER:OG	2.33	0.44
1:aE:63:LEU:HD13	1:AR:89:TYR:HE2	1.71	0.44
5:EF:57:GLU:HG2	4:BO:33:TYR:CE1	2.49	0.44
5:EF:140:ASP:N	5:CF:139:LYS:CA	2.81	0.44
5:NF:233:GLU:H	5:CM:265:LEU:CD2	2.31	0.44
5:NF:320:ILE:O	5:NF:321:ASP:HB2	2.17	0.44
1:AG:68:LEU:HD12	1:AG:161:SER:HB3	1.99	0.44
2:HG:22:LYS:HG2	1:YL:360:LEU:HD21	1.95	0.44
1:SG:19:LYS:NZ	1:SG:37:ASP:OD1	2.37	0.44
1:TG:172:ARG:NH1	1:TG:277:GLY:H	2.16	0.44
1:aG:50:VAL:HG21	1:DK:137:ASP:OD1	2.18	0.44
3:AH:150:TYR:CZ	1:AP:145:LEU:CB	3.01	0.44
3:AH:153:ASP:OD1	3:AH:153:ASP:C	2.59	0.44
5:DH:69:GLU:OE2	5:DH:73:ARG:NH2	2.46	0.44
4:BI:233:ASP:OD1	4:BI:233:ASP:N	2.50	0.44
1:AJ:46:PHE:CB	1:DJ:106:GLU:CB	2.96	0.44
1:CJ:326:GLU:HA	1:CJ:326:GLU:OE1	2.17	0.44
1:DJ:222:SER:HA	1:LP:38:LYS:HB3	2.00	0.44
1:DJ:284:LYS:HE2	1:DJ:330:ASN:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:159:LYS:HE2	1:KJ:159:LYS:HB3	1.73	0.44
1:LJ:51:ASN:HB3	1:LJ:54:LEU:HD13	1.99	0.44
2:MJ:8:ARG:NH2	1:JS:374:HIS:ND1	2.62	0.44
1:AK:106:GLU:OE1	1:hR:110:LYS:CE	2.65	0.44
1:AK:106:GLU:OE1	1:hR:110:LYS:NZ	2.49	0.44
1:BK:260:GLN:HG2	1:DK:261:ILE:HG21	2.00	0.44
1:CK:153:LEU:HD12	2:kR:6:ASN:HA	1.98	0.44
1:CK:172:ARG:NH1	1:CK:275:ASP:O	2.51	0.44
2:FK:41:TYR:HB3	8:QK:122:ALA:HB3	1.99	0.44
1:LK:109:LEU:CD2	1:iR:105:GLU:O	2.36	0.44
1:AL:73:ASN:HB2	1:AL:354:ARG:HH22	1.83	0.44
1:DL:265:ASP:N	1:DL:265:ASP:OD1	2.48	0.44
1:JL:73:ASN:HB2	1:JL:354:ARG:HH22	1.83	0.44
1:JL:152:ALA:O	2:OL:8:ARG:NH1	2.51	0.44
1:RL:213:ALA:HB1	1:RL:228:GLN:HB2	2.00	0.44
1:SL:174:MET:HE3	1:SL:382:LYS:HB3	2.00	0.44
1:ZL:239:VAL:HG21	1:ZL:347:ILE:HD13	2.00	0.44
3:AM:163:GLU:HG3	3:AO:175:ILE:HD11	1.99	0.44
5:EM:140:ASP:CB	5:CM:139:LYS:HB3	2.01	0.44
5:FM:29:THR:HA	3:AO:9:ASN:N	2.33	0.44
5:FM:38:TYR:OH	4:BO:10:ASP:OD2	2.25	0.44
5:EO:140:ASP:N	5:CO:139:LYS:HA	2.33	0.44
1:AP:70:ASN:O	1:AP:72:PHE:N	2.49	0.44
1:BP:189:ARG:HB2	1:BP:393:ILE:HG12	1.99	0.44
1:DP:51:ASN:HB3	1:DP:54:LEU:HD23	1.99	0.44
1:LP:111:ARG:HD3	1:LP:113:TYR:HE2	1.83	0.44
2:NP:34:THR:HA	2:NP:36:LYS:HG2	1.99	0.44
1:BQ:260:GLN:HE21	1:BQ:260:GLN:HA	1.82	0.44
1:LQ:235:LEU:HD22	1:LQ:264:ILE:HG21	1.99	0.44
2:MQ:45:ILE:HG13	2:MQ:46:HIS:HB3	1.99	0.44
1:TQ:44:THR:OG1	1:TQ:45:MET:N	2.51	0.44
1:DR:361:LYS:HD3	1:DR:377:HIS:HD2	1.81	0.44
1:KR:260:GLN:HE21	1:KR:260:GLN:HA	1.82	0.44
1:ZR:71:ARG:HD3	2:dR:30:MET:HG2	1.99	0.44
1:jR:235:LEU:HD22	1:jR:264:ILE:HG21	1.99	0.44
1:AS:350:ILE:O	2:ES:50:LYS:NZ	2.50	0.44
1:IS:163:ILE:HG22	1:JS:96:PRO:HG3	1.99	0.44
1:A1:239:VAL:HG21	1:A1:347:ILE:HD13	2.00	0.44
1:Q1:108:MET:HG3	1:Q1:109:LEU:HD12	1.99	0.44
1:R1:71:ARG:HD3	2:U1:30:MET:HG2	1.99	0.44
1:R1:239:VAL:HG21	1:R1:347:ILE:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X1:357:LYS:CD	2:P6:17:ASP:HB2	2.46	0.44
1:Z1:133:LEU:HD21	1:Z1:155:VAL:HG11	2.00	0.44
3:A2:180:PHE:HE1	3:A2:224:SER:HB2	1.82	0.44
4:B2:4:TYR:HD2	5:E9:44:SER:OG	2.01	0.44
5:D2:38:TYR:HA	3:AM:202:ASN:CG	2.42	0.44
5:F2:38:TYR:CE2	4:BB:6:MET:HE3	2.45	0.44
1:B3:174:MET:HE3	1:B3:382:LYS:HB3	2.00	0.44
2:E3:45:ILE:HG13	2:E3:46:HIS:HB3	1.99	0.44
2:H3:2:TYR:HB2	2:P4:55:GLY:HA3	1.94	0.44
1:J3:188:VAL:HG12	1:J3:392:LEU:HD23	2.00	0.44
1:L3:94:THR:OG1	1:D8:159:LYS:NZ	2.34	0.44
2:X3:22:LYS:HG2	1:I8:360:LEU:HD21	1.95	0.44
1:C4:55:PHE:HE1	1:BG:46:PHE:HE1	1.65	0.44
1:J4:73:ASN:HB2	1:J4:354:ARG:HH22	1.83	0.44
1:K4:39:TRP:O	1:RR:222:SER:OG	2.33	0.44
1:L4:82:ILE:HD13	1:L4:82:ILE:HA	1.85	0.44
1:R4:123:ASN:ND2	1:BS:21:ALA:HB1	2.21	0.44
1:R4:133:LEU:HB2	2:V4:11:MET:HG2	2.00	0.44
1:S4:174:MET:HE3	1:S4:382:LYS:HB3	2.00	0.44
1:T4:368:GLU:CG	1:KS:107:LEU:HD11	2.47	0.44
2:e4:22:LYS:HG2	1:Y8:360:LEU:HD22	1.91	0.44
1:f4:81:PHE:HD2	1:gG:139:ARG:HD3	1.64	0.44
1:g4:73:ASN:HB2	1:g4:354:ARG:HH22	1.83	0.44
1:h4:372:VAL:HG11	2:FL:11:MET:HB2	1.99	0.44
1:i4:235:LEU:HD22	1:i4:264:ILE:HG21	1.99	0.44
3:A5:159:HIS:CD2	3:AN:23:HIS:CE1	3.06	0.44
4:B5:32:PHE:HD2	5:FO:55:LEU:HD11	1.64	0.44
5:E5:45:TYR:HB3	5:EN:38:TYR:HE2	1.83	0.44
5:N5:230:SER:C	5:CN:266:THR:CB	2.89	0.44
1:A6:239:VAL:HG21	1:A6:347:ILE:HD13	2.00	0.44
2:E6:45:ILE:HG13	2:E6:46:HIS:HB3	1.99	0.44
1:J6:133:LEU:HB2	2:O6:11:MET:HG2	2.00	0.44
1:K6:14:VAL:HG23	1:CL:14:VAL:HG21	1.96	0.44
1:K6:46:PHE:HE1	1:CL:55:PHE:HE1	1.65	0.44
1:K6:242:THR:HG21	1:K6:246:LEU:HD12	2.00	0.44
1:R6:222:SER:OG	1:KG:39:TRP:O	2.33	0.44
1:S6:27:HIS:CG	1:AS:312:PRO:HD3	2.53	0.44
1:T6:108:MET:CE	1:AS:367:PRO:HD2	2.47	0.44
1:Z6:71:ARG:H	2:d6:26:LEU:HD12	1.83	0.44
1:b6:82:ILE:HD13	1:b6:82:ILE:HA	1.85	0.44
1:b6:265:ASP:OD1	1:b6:265:ASP:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g6:108:MET:HG3	1:g6:109:LEU:HD12	1.99	0.44
1:g6:302:ASP:CG	1:DJ:29:TYR:HH	2.02	0.44
1:i6:27:HIS:CG	1:BJ:312:PRO:HD3	2.53	0.44
1:i6:50:VAL:HG21	1:DJ:137:ASP:OD1	2.18	0.44
1:B7:27:HIS:CG	1:BP:312:PRO:HD3	2.53	0.44
1:D7:304:GLN:NE2	1:DQ:98:ASN:O	2.48	0.44
1:J7:203:GLU:HB3	1:bQ:248:SER:OG	2.17	0.44
1:K7:174:MET:HE3	1:K7:382:LYS:HB3	2.00	0.44
1:Q7:62:LEU:CD1	2:XQ:53:PHE:O	2.62	0.44
1:R7:73:ASN:HB2	1:R7:354:ARG:HH22	1.83	0.44
1:Z7:85:TYR:CD1	1:Z7:122:GLY:HA2	2.53	0.44
1:Z7:213:ALA:HB1	1:Z7:228:GLN:HB2	2.00	0.44
1:Z7:239:VAL:HG21	1:Z7:347:ILE:HD13	2.00	0.44
1:h7:152:ALA:O	2:m7:8:ARG:NH1	2.51	0.44
1:i7:174:MET:HE3	1:i7:382:LYS:HB3	2.00	0.44
1:J8:152:ALA:O	2:O8:8:ARG:NH1	2.51	0.44
1:S8:133:LEU:HD21	1:S8:155:VAL:HG11	2.00	0.44
1:T8:98:ASN:ND2	1:T8:99:MET:N	2.65	0.44
1:Z8:213:ALA:HB1	1:Z8:228:GLN:HB2	2.00	0.44
1:g8:153:LEU:CD2	2:MS:4:GLY:HA3	2.37	0.44
1:g8:315:ALA:CB	1:DD:31:LYS:HZ1	2.17	0.44
3:A9:30:LEU:HG	3:AA:151:ASN:ND2	2.33	0.44
4:BB:244:LYS:CB	3:AM:212:MET:HE2	2.33	0.44
5:EB:45:TYR:HB3	5:EF:38:TYR:HE2	1.83	0.44
4:BC:141:THR:OG1	4:BC:196:SER:OG	2.34	0.44
5:CC:266:THR:CB	5:NH:230:SER:C	2.89	0.44
1:AD:174:MET:HG2	1:KK:33:TRP:HB2	1.77	0.44
1:DD:222:SER:HA	1:KS:38:LYS:HB3	2.00	0.44
1:KD:128:LYS:HZ1	1:KD:375:TRP:CD1	2.36	0.44
1:LD:34:THR:O	1:DK:382:LYS:HD2	2.17	0.44
1:BE:71:ARG:H	2:HE:26:LEU:HD12	1.83	0.44
1:BE:73:ASN:HB2	1:BE:354:ARG:HH22	1.83	0.44
1:BE:222:SER:HG	1:CP:53:TYR:HD1	1.65	0.44
1:CE:100:ASP:HB2	1:CP:26:ASN:C	2.43	0.44
1:FE:143:GLN:C	1:CP:82:ILE:CD1	2.88	0.44
1:KE:108:MET:HG3	1:KE:109:LEU:HD12	1.99	0.44
1:TE:41:ASN:ND2	1:TE:54:LEU:O	2.46	0.44
1:TE:73:ASN:HB2	1:TE:354:ARG:HH22	1.83	0.44
1:UE:174:MET:HE3	1:UE:382:LYS:HB3	2.00	0.44
1:VE:265:ASP:OD1	1:VE:265:ASP:N	2.48	0.44
3:AF:151:ASN:ND2	3:AM:30:LEU:HG	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:174:MET:HE3	1:BG:382:LYS:HB3	2.00	0.44
1:DG:361:LYS:HE2	1:DG:377:HIS:HB2	1.98	0.44
1:JG:152:ALA:O	2:OG:8:ARG:NH1	2.51	0.44
1:JG:372:VAL:HB	2:OG:11:MET:HB2	1.98	0.44
1:RG:133:LEU:HB2	2:WG:11:MET:HG2	2.00	0.44
1:SG:174:MET:HE3	1:SG:382:LYS:HB3	2.00	0.44
1:aG:14:VAL:O	1:DK:45:MET:N	2.51	0.44
1:hG:101:LEU:HD21	1:YR:136:ASN:HD21	1.82	0.44
5:EH:140:ASP:N	5:CH:139:LYS:HA	2.33	0.44
5:EH:140:ASP:N	5:CH:139:LYS:CA	2.81	0.44
4:BI:251:TRP:CB	3:AN:208:LYS:HE2	2.48	0.44
5:EI:136:SER:O	5:EI:140:ASP:N	2.50	0.44
5:NI:320:ILE:O	5:NI:321:ASP:HB2	2.17	0.44
1:AJ:314:GLY:O	1:JS:31:LYS:HA	2.10	0.44
1:KK:128:LYS:HZ1	1:KK:375:TRP:CD1	2.36	0.44
1:BL:174:MET:HE3	1:BL:382:LYS:HB3	2.00	0.44
1:JL:213:ALA:HB1	1:JL:228:GLN:HB2	2.00	0.44
1:KL:260:GLN:HE21	1:KL:260:GLN:HA	1.82	0.44
1:RL:367:PRO:O	1:TL:377:HIS:NE2	2.38	0.44
1:bL:44:THR:OG1	1:bL:45:MET:N	2.51	0.44
1:BP:350:ILE:O	2:FP:50:LYS:NZ	2.50	0.44
1:KP:335:LYS:HD3	1:KP:336:PRO:HD2	2.00	0.44
1:CQ:184:SER:OG	1:CQ:185:GLU:N	2.50	0.44
1:KQ:174:MET:HE3	1:KQ:382:LYS:HB3	2.00	0.44
2:UQ:38:GLU:N	2:UQ:38:GLU:CD	2.72	0.44
1:eQ:265:ASP:OD1	1:eQ:265:ASP:N	2.48	0.44
2:gQ:11:MET:HB2	1:iR:372:VAL:HG11	1.99	0.44
1:IR:108:MET:HG3	1:IR:109:LEU:HD12	1.99	0.44
1:KR:133:LEU:HD21	1:KR:155:VAL:HG11	2.00	0.44
1:YR:184:SER:OG	1:YR:185:GLU:N	2.50	0.44
1:ZR:152:ALA:O	2:eR:8:ARG:NH1	2.51	0.44
1:aR:174:MET:HE3	1:aR:382:LYS:HB3	2.00	0.44
1:aR:260:GLN:HA	1:aR:260:GLN:HE21	1.82	0.44
1:bR:265:ASP:OD1	1:bR:265:ASP:N	2.48	0.44
1:hR:73:ASN:HB2	1:hR:354:ARG:HH22	1.83	0.44
1:BS:357:LYS:HG2	2:GS:20:LEU:HD12	1.99	0.44
1:KS:356:THR:O	1:KS:356:THR:OG1	2.35	0.44
1:KS:362:PRO:HA	1:KS:363:PRO:HD3	1.83	0.44
1:A1:41:ASN:ND2	1:A1:54:LEU:O	2.46	0.43
1:B1:242:THR:HG21	1:B1:246:LEU:HD12	2.00	0.43
1:J1:71:ARG:H	2:N1:26:LEU:HD12	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J1:85:TYR:CD1	1:J1:122:GLY:HA2	2.53	0.43
1:R1:367:PRO:O	1:T1:377:HIS:NE2	2.38	0.43
1:T1:164:ASN:HD21	2:V1:25:GLU:H	1.66	0.43
1:f1:108:MET:HG3	1:f1:109:LEU:HD12	1.99	0.43
1:g1:213:ALA:HB1	1:g1:228:GLN:HB2	2.00	0.43
3:A2:115:ILE:HG21	3:A2:121:ILE:HG22	2.00	0.43
3:A2:159:HIS:CD2	3:AB:23:HIS:CE1	3.06	0.43
5:E2:40:THR:CG2	5:D9:45:TYR:OH	2.64	0.43
1:D3:235:LEU:HD22	1:D3:264:ILE:HG21	1.99	0.43
1:J3:367:PRO:O	1:L3:377:HIS:NE2	2.38	0.43
1:K3:133:LEU:HD21	1:K3:155:VAL:HG11	2.00	0.43
1:K3:242:THR:HG21	1:K3:246:LEU:HD12	2.00	0.43
2:M3:45:ILE:HG13	2:M3:46:HIS:HB3	1.99	0.43
1:Q3:184:SER:OG	1:Q3:185:GLU:N	2.50	0.43
1:R3:239:VAL:HG21	1:R3:347:ILE:HD13	2.00	0.43
1:T3:94:THR:OG1	1:dE:159:LYS:NZ	2.34	0.43
1:Y3:44:THR:OG1	1:Y3:45:MET:N	2.51	0.43
1:Y3:164:ASN:HD21	2:a3:25:GLU:H	1.66	0.43
1:b3:361:LYS:HD3	1:b3:377:HIS:HD2	1.81	0.43
1:B4:14:VAL:HG21	1:aE:14:VAL:HG23	1.94	0.43
1:D4:164:ASN:HD21	2:G4:25:GLU:H	1.66	0.43
1:R4:188:VAL:HG12	1:R4:392:LEU:HD23	2.00	0.43
1:T4:143:GLN:C	1:BS:82:ILE:CD1	2.88	0.43
1:Y4:133:LEU:HB2	2:d4:11:MET:HG2	1.99	0.43
1:Y4:203:GLU:HB3	1:Y8:248:SER:OG	2.17	0.43
1:Z4:260:GLN:HE21	1:Z4:260:GLN:HA	1.82	0.43
1:f4:119:LYS:HD3	1:gG:35:PHE:O	2.17	0.43
2:j4:11:MET:HG2	1:CD:133:LEU:HB2	1.95	0.43
5:N5:233:GLU:H	5:CN:265:LEU:CD2	2.31	0.43
1:B6:260:GLN:HA	1:B6:260:GLN:HE21	1.82	0.43
1:J6:168:GLU:OE2	1:K6:211:ASN:ND2	2.38	0.43
1:S6:174:MET:HE3	1:S6:382:LYS:HB3	2.00	0.43
1:Y6:300:TYR:CA	1:LE:115:ARG:NH2	2.75	0.43
1:Z6:73:ASN:HB2	1:Z6:354:ARG:HH22	1.83	0.43
1:a6:46:PHE:HE1	1:SE:55:PHE:HE1	1.65	0.43
1:g6:32:SER:O	1:LP:382:LYS:CE	2.54	0.43
1:h6:239:VAL:HG21	1:h6:347:ILE:HD13	2.00	0.43
1:i6:39:TRP:O	1:BJ:222:SER:OG	2.34	0.43
1:i6:242:THR:HG21	1:i6:246:LEU:HD12	2.00	0.43
2:k6:26:LEU:HD12	1:B8:71:ARG:H	1.82	0.43
2:k6:45:ILE:HG13	2:k6:46:HIS:H	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:177:ASP:OD2	1:DP:33:TRP:HZ2	2.01	0.43
1:C7:357:LYS:CD	2:mR:17:ASP:HB2	2.46	0.43
1:I7:248:SER:OG	1:cQ:203:GLU:HB3	2.17	0.43
1:J7:73:ASN:HB2	1:J7:354:ARG:HH22	1.83	0.43
1:J7:133:LEU:HB2	2:O7:11:MET:HG2	2.00	0.43
1:L7:265:ASP:N	1:L7:265:ASP:OD1	2.48	0.43
1:R7:152:ALA:O	2:W7:8:ARG:NH1	2.51	0.43
1:g7:55:PHE:HE1	1:CE:46:PHE:HE1	1.65	0.43
1:A8:101:LEU:HD21	1:QL:136:ASN:HD21	1.82	0.43
1:L8:44:THR:OG1	1:L8:45:MET:N	2.51	0.43
1:L8:164:ASN:HD21	2:O8:25:GLU:H	1.66	0.43
1:R8:188:VAL:HG12	1:R8:392:LEU:HD23	2.00	0.43
1:R8:222:SER:OG	1:SL:39:TRP:O	2.33	0.43
1:T8:172:ARG:NH1	1:T8:277:GLY:H	2.16	0.43
1:Z8:222:SER:OG	1:BR:39:TRP:O	2.33	0.43
1:Z8:347:ILE:HD12	1:Z8:347:ILE:HA	1.92	0.43
1:g8:222:SER:OG	1:DD:53:TYR:CE1	2.69	0.43
1:i8:27:HIS:CG	1:BD:312:PRO:HD3	2.53	0.43
1:i8:50:VAL:HG21	1:DD:137:ASP:OD1	2.18	0.43
1:i8:174:MET:HE3	1:i8:382:LYS:HB3	2.00	0.43
2:l8:11:MET:HB2	1:KL:372:VAL:HG11	1.99	0.43
3:A9:23:HIS:CE1	3:AA:159:HIS:CD2	3.06	0.43
3:A9:66:ILE:HD13	1:AK:153:LEU:CD2	2.38	0.43
3:A9:115:ILE:HG21	3:A9:121:ILE:HG22	2.00	0.43
3:A9:180:PHE:HE1	3:A9:224:SER:HB2	1.82	0.43
5:E9:13:ASP:N	5:E9:13:ASP:OD1	2.45	0.43
5:OB:271:GLN:O	5:OB:274:LEU:HD12	2.17	0.43
5:OB:320:ILE:O	5:OB:321:ASP:HB2	2.17	0.43
3:AC:108:THR:O	3:AC:132:TYR:OH	2.32	0.43
5:CC:271:GLN:O	5:CC:274:LEU:HD12	2.17	0.43
1:AD:82:ILE:CG2	1:KK:143:GLN:O	2.66	0.43
1:AD:145:LEU:CG	3:AF:37:GLU:CB	2.96	0.43
1:LD:25:PHE:HE1	1:DK:126:VAL:HG11	1.48	0.43
1:LD:223:GLY:CA	1:YG:53:TYR:CD2	3.00	0.43
1:CE:106:GLU:HG3	1:LP:109:LEU:HD13	1.99	0.43
1:FE:30:SER:C	1:CP:314:GLY:O	2.60	0.43
1:FE:136:ASN:HD21	1:LP:99:MET:CE	2.31	0.43
2:HE:15:TYR:CZ	1:CP:138:THR:HG21	2.52	0.43
1:LE:239:VAL:HG21	1:LE:347:ILE:HD13	2.00	0.43
1:ME:362:PRO:HA	1:ME:363:PRO:HD3	1.79	0.43
1:SE:132:THR:HG21	1:JQ:111:ARG:HG2	1.23	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TE:152:ALA:O	2:YE:8:ARG:NH1	2.51	0.43
1:aE:171:MET:HE3	1:aE:171:MET:HB3	1.87	0.43
1:bE:133:LEU:HB2	2:gE:11:MET:HG2	2.00	0.43
1:dE:235:LEU:HD22	1:dE:264:ILE:HG21	1.99	0.43
1:dE:361:LYS:HE2	1:dE:377:HIS:HB2	1.98	0.43
2:eE:45:ILE:HG13	2:eE:46:HIS:H	1.66	0.43
1:DG:164:ASN:HD21	2:GG:25:GLU:H	1.66	0.43
1:JG:73:ASN:HB2	1:JG:354:ARG:HH22	1.83	0.43
1:JG:85:TYR:CD1	1:JG:122:GLY:HA2	2.53	0.43
1:QG:136:ASN:HD21	1:AQ:101:LEU:HD21	1.82	0.43
1:RG:55:PHE:O	1:RG:57:LYS:NZ	2.46	0.43
1:RG:85:TYR:CD1	1:RG:122:GLY:HA2	2.53	0.43
1:RG:188:VAL:HG12	1:RG:392:LEU:HD23	2.00	0.43
1:aG:140:PHE:CD1	1:BK:84:GLN:HB3	2.53	0.43
1:bG:172:ARG:NH1	1:bG:277:GLY:H	2.16	0.43
1:gG:248:SER:OG	1:AL:203:GLU:HB3	2.17	0.43
1:hG:168:GLU:OE2	1:iG:211:ASN:ND2	2.38	0.43
3:AH:69:VAL:HG13	3:AH:80:ILE:HB	1.99	0.43
3:AI:30:LEU:HG	3:AO:151:ASN:ND2	2.32	0.43
3:AI:212:MET:HE2	4:BM:244:LYS:CB	2.33	0.43
4:BI:4:TYR:HD2	5:EO:44:SER:OG	2.01	0.43
1:BJ:350:ILE:O	2:FJ:50:LYS:NZ	2.50	0.43
1:BJ:372:VAL:CB	2:iL:11:MET:HB2	2.45	0.43
1:CJ:306:GLN:N	1:CJ:309:ASP:OD2	2.42	0.43
1:DJ:51:ASN:HB3	1:DJ:54:LEU:HD23	1.99	0.43
1:DJ:170:GLU:HA	1:LP:33:TRP:HZ3	1.83	0.43
2:EJ:36:LYS:HE2	2:EJ:36:LYS:HB3	1.82	0.43
1:KJ:105:GLU:CD	1:CS:109:LEU:CG	2.91	0.43
1:LJ:216:ASN:HD22	1:LJ:229:TYR:HD2	1.66	0.43
2:MJ:11:MET:HA	2:MJ:14:SER:HB2	2.00	0.43
1:CK:302:ASP:OD2	1:CK:305:SER:OG	2.34	0.43
1:AL:133:LEU:HB2	2:GL:11:MET:HG2	2.00	0.43
1:BL:14:VAL:HG23	1:YR:14:VAL:HG23	1.97	0.43
1:IL:108:MET:HG3	1:IL:109:LEU:HD12	1.99	0.43
1:QL:360:LEU:HA	1:QL:360:LEU:HD13	1.88	0.43
1:RL:71:ARG:HD3	2:VL:30:MET:HG2	1.99	0.43
1:RL:239:VAL:HG21	1:RL:347:ILE:HD13	2.00	0.43
1:SL:362:PRO:HA	1:SL:363:PRO:HD3	1.79	0.43
1:TL:164:ASN:HD21	2:WL:25:GLU:H	1.66	0.43
5:EM:140:ASP:N	5:CM:139:LYS:CA	2.81	0.43
3:AN:24:ARG:HB2	3:AN:169:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KP:128:LYS:HZ1	1:KP:375:TRP:CD1	2.36	0.43
1:CQ:108:MET:HG3	1:CQ:109:LEU:HD12	1.99	0.43
1:CQ:136:ASN:HD21	1:cQ:101:LEU:HD21	1.82	0.43
1:AQ:152:ALA:O	2:GQ:8:ARG:NH1	2.51	0.43
1:BQ:174:MET:HE3	1:BQ:382:LYS:HB3	2.00	0.43
1:DQ:164:ASN:HD21	2:GQ:25:GLU:H	1.66	0.43
1:RQ:71:ARG:H	2:VQ:26:LEU:HD12	1.83	0.43
1:RQ:133:LEU:HB2	2:WQ:11:MET:HG2	1.99	0.43
1:TQ:179:SER:OG	1:TQ:341:TYR:OH	2.29	0.43
1:AR:55:PHE:O	1:AR:57:LYS:NZ	2.46	0.43
1:AR:71:ARG:H	2:FR:26:LEU:HD12	1.83	0.43
1:JR:85:TYR:CD1	1:JR:122:GLY:HA2	2.53	0.43
1:YR:108:MET:HG3	1:YR:109:LEU:HD12	1.99	0.43
1:bR:82:ILE:HD13	1:bR:82:ILE:HA	1.85	0.43
1:bR:164:ASN:HD21	2:eR:25:GLU:H	1.66	0.43
1:AS:260:GLN:HG2	1:CS:261:ILE:HG21	2.00	0.43
2:DS:8:ARG:HH11	2:DS:10:MET:H	1.64	0.43
1:B1:39:TRP:O	1:Y4:222:SER:OG	2.33	0.43
1:D1:361:LYS:HE2	1:D1:377:HIS:HB2	1.98	0.43
1:I1:248:SER:OG	1:JG:203:GLU:HB3	2.17	0.43
1:J1:101:LEU:HD21	1:Q1:136:ASN:HD21	1.82	0.43
1:R1:118:THR:CG2	1:CJ:53:TYR:HB3	2.48	0.43
1:S1:150:ASN:HD21	2:N3:1:MET:H3	1.65	0.43
1:S1:362:PRO:HA	1:S1:363:PRO:HD3	1.79	0.43
1:T1:139:ARG:CB	1:CJ:81:PHE:CE2	2.84	0.43
1:Y1:239:VAL:HG21	1:Y1:347:ILE:HD13	2.00	0.43
1:a1:304:GLN:NE2	1:bR:98:ASN:O	2.48	0.43
1:i1:164:ASN:HD21	2:l1:25:GLU:H	1.66	0.43
1:i1:304:GLN:NE2	1:L7:98:ASN:O	2.48	0.43
5:E2:140:ASP:N	5:C2:139:LYS:CA	2.81	0.43
5:C2:158:GLU:OE2	5:O2:433:HIS:HD2	2.02	0.43
1:D3:164:ASN:HD21	2:G3:25:GLU:H	1.66	0.43
1:J3:213:ALA:HB1	1:J3:228:GLN:HB2	2.00	0.43
1:L3:44:THR:OG1	1:L3:45:MET:N	2.51	0.43
2:a3:11:MET:HG2	1:BK:133:LEU:HG	1.97	0.43
1:b3:60:GLU:OE2	1:j8:351:LYS:NZ	2.43	0.43
1:B4:174:MET:HE3	1:B4:382:LYS:HB3	2.00	0.43
1:Q4:98:ASN:ND2	1:Q4:99:MET:N	2.67	0.43
1:Q4:136:ASN:HD21	1:ZR:101:LEU:HD21	1.82	0.43
1:R4:85:TYR:CD1	1:R4:122:GLY:HA2	2.53	0.43
1:R4:110:LYS:CE	1:IS:106:GLU:OE1	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S4:372:VAL:HG11	2:XE:11:MET:HB2	1.99	0.43
1:T4:14:VAL:HG13	1:AS:46:PHE:CE2	2.53	0.43
1:f4:248:SER:OG	1:ZG:203:GLU:HB3	2.17	0.43
1:g4:71:ARG:H	2:j4:26:LEU:HD12	1.83	0.43
1:g4:71:ARG:HD3	2:j4:30:MET:HG2	1.99	0.43
1:g4:222:SER:CB	1:CD:38:LYS:C	2.88	0.43
1:g4:223:GLY:HA3	1:CD:53:TYR:CE1	2.39	0.43
5:E5:17:PHE:HB2	5:EI:62:ARG:NH2	2.32	0.43
5:E5:37:ASP:OD2	3:AH:197:VAL:HG23	2.10	0.43
5:O5:271:GLN:O	5:O5:274:LEU:HD12	2.17	0.43
1:B6:242:THR:HG21	1:B6:246:LEU:HD12	2.00	0.43
1:I6:204:ALA:C	1:I6:205:ILE:O	2.61	0.43
1:K6:133:LEU:HD21	1:K6:155:VAL:HG11	2.00	0.43
2:N6:11:MET:HB2	1:K8:372:VAL:HG11	1.99	0.43
1:Q6:32:SER:O	1:LJ:382:LYS:CE	2.54	0.43
1:R6:71:ARG:H	2:V6:26:LEU:HD12	1.83	0.43
1:Z6:101:LEU:HD21	1:QQ:136:ASN:HD21	1.82	0.43
1:g6:28:ASP:O	1:AP:98:ASN:HB3	2.18	0.43
1:g6:289:GLN:N	1:g6:326:GLU:OE2	2.46	0.43
1:h6:89:TYR:HE2	1:AE:63:LEU:HD13	1.71	0.43
1:B7:140:PHE:CD1	1:BP:84:GLN:HB3	2.53	0.43
1:I7:108:MET:HG3	1:I7:109:LEU:HD12	1.99	0.43
1:K7:14:VAL:HG23	1:CQ:14:VAL:HG23	1.97	0.43
2:N7:22:LYS:HA	2:N7:22:LYS:HD2	1.73	0.43
1:R7:111:ARG:HG2	1:QQ:132:THR:HG21	1.23	0.43
1:R7:222:SER:OG	1:ME:39:TRP:O	2.33	0.43
1:a7:133:LEU:HD21	1:a7:155:VAL:HG11	2.00	0.43
1:h7:41:ASN:ND2	1:h7:54:LEU:O	2.46	0.43
1:j7:265:ASP:OD1	1:j7:265:ASP:N	2.48	0.43
1:A8:71:ARG:H	2:F8:26:LEU:HD12	1.83	0.43
1:A8:85:TYR:CD1	1:A8:122:GLY:HA2	2.53	0.43
1:I8:98:ASN:ND2	1:I8:99:MET:N	2.67	0.43
1:K8:174:MET:HE3	1:K8:382:LYS:HB3	2.00	0.43
1:R8:213:ALA:HB1	1:R8:228:GLN:HB2	2.00	0.43
1:S8:242:THR:HG21	1:S8:246:LEU:HD12	2.00	0.43
1:Y8:119:LYS:HD3	1:bQ:35:PHE:O	2.17	0.43
1:Z8:71:ARG:H	2:d8:26:LEU:HD12	1.83	0.43
1:Z8:71:ARG:HD3	2:d8:30:MET:HG2	1.99	0.43
1:Z8:73:ASN:HB2	1:Z8:354:ARG:HH22	1.83	0.43
1:b8:235:LEU:HD22	1:b8:264:ILE:HG21	1.99	0.43
1:i8:137:ASP:OD2	1:DD:49:PHE:CB	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j8:164:ASN:HD21	2:m8:25:GLU:H	1.66	0.43
5:O9:320:ILE:O	5:O9:321:ASP:HB2	2.17	0.43
3:AA:79:MET:HE2	3:AA:79:MET:HB3	1.81	0.43
3:AA:115:ILE:HG21	3:AA:121:ILE:HG22	2.00	0.43
5:CA:320:ILE:O	5:CA:321:ASP:HB2	2.17	0.43
3:AB:154:ILE:HG22	1:AD:370:ASP:CG	2.42	0.43
3:AB:154:ILE:HB	1:AD:135:ASN:HD22	1.83	0.43
3:AC:208:LYS:HE2	4:BN:251:TRP:CB	2.48	0.43
1:BD:240:ILE:HB	1:BD:344:ILE:HG22	1.99	0.43
1:CD:131:PHE:HB3	1:CD:159:LYS:HE2	2.00	0.43
1:CD:306:GLN:N	1:CD:309:ASP:OD2	2.42	0.43
1:DD:289:GLN:N	1:DD:326:GLU:OE2	2.43	0.43
1:KD:149:THR:HG23	2:LS:15:TYR:HB3	1.97	0.43
1:LD:38:LYS:HB3	1:DK:222:SER:HA	2.00	0.43
1:LD:209:GLN:NE2	1:LD:235:LEU:HB3	2.32	0.43
1:FE:5:SER:HB2	1:BP:5:SER:OG	2.19	0.43
1:FE:26:ASN:ND2	1:LP:102:SER:HB3	2.31	0.43
1:ME:242:THR:HG21	1:ME:246:LEU:HD12	2.00	0.43
1:aE:156:TYR:HE1	1:aE:360:LEU:HD11	1.81	0.43
1:bE:71:ARG:HD3	2:fE:30:MET:HG2	1.99	0.43
3:AF:300:LYS:HZ1	3:AM:308:THR:HG21	1.83	0.43
4:BF:188:ASP:N	4:BF:188:ASP:OD1	2.51	0.43
5:EF:140:ASP:O	5:CF:140:ASP:CA	2.65	0.43
1:CG:98:ASN:ND2	1:CG:99:MET:N	2.67	0.43
1:AG:71:ARG:H	2:FG:26:LEU:HD12	1.83	0.43
1:AG:71:ARG:HD3	2:FG:30:MET:HG2	1.99	0.43
1:AG:367:PRO:O	1:DG:377:HIS:NE2	2.38	0.43
2:NG:22:LYS:HD2	2:NG:22:LYS:HA	1.73	0.43
1:QG:98:ASN:ND2	1:QG:99:MET:N	2.67	0.43
1:ZG:133:LEU:HB2	2:eG:11:MET:HG2	1.99	0.43
1:aG:242:THR:HG21	1:aG:246:LEU:HD12	2.00	0.43
1:hG:71:ARG:H	2:lG:26:LEU:HD12	1.83	0.43
1:hG:203:GLU:HB3	1:CL:248:SER:OG	2.17	0.43
1:jG:265:ASP:OD1	1:jG:265:ASP:N	2.48	0.43
2:kG:45:ILE:HG13	2:kG:46:HIS:HB3	1.99	0.43
5:EH:38:TYR:HE2	5:EN:45:TYR:HB3	1.83	0.43
5:CH:265:LEU:CD2	5:NN:233:GLU:H	2.31	0.43
5:CI:158:GLU:OE2	5:OI:433:HIS:HD2	2.02	0.43
1:AJ:354:ARG:NH2	2:MJ:24:THR:OG1	2.51	0.43
1:BJ:210:ASN:OD1	1:DJ:71:ARG:NH2	2.35	0.43
1:BJ:244:ASP:OD1	1:BJ:244:ASP:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CJ:131:PHE:HB3	1:CJ:159:LYS:HE2	2.00	0.43
1:DJ:109:LEU:CG	1:KP:105:GLU:CD	2.90	0.43
1:AK:274:ASP:OD1	1:AK:274:ASP:N	2.51	0.43
1:CK:138:THR:HG21	2:kR:15:TYR:CZ	2.52	0.43
1:CK:357:LYS:HG2	2:HK:20:LEU:HD12	1.99	0.43
1:LK:99:MET:CE	1:jR:136:ASN:HD21	2.31	0.43
2:MK:8:ARG:HH22	1:KP:374:HIS:CE1	2.32	0.43
1:CL:108:MET:HG3	1:CL:109:LEU:HD12	1.99	0.43
1:LL:164:ASN:HD21	2:OL:25:GLU:H	1.66	0.43
1:QL:108:MET:HG3	1:QL:109:LEU:HD12	1.99	0.43
1:SL:242:THR:HG21	1:SL:246:LEU:HD12	2.00	0.43
1:YL:171:MET:HE3	1:YL:171:MET:HB3	1.88	0.43
3:AM:237:GLU:OE1	3:AO:231:LEU:HD21	2.17	0.43
5:CM:271:GLN:O	5:CM:274:LEU:HD12	2.17	0.43
5:DN:69:GLU:OE2	5:DN:73:ARG:NH2	2.46	0.43
5:NN:320:ILE:O	5:NN:321:ASP:HB2	2.17	0.43
4:BO:188:ASP:N	4:BO:188:ASP:OD1	2.51	0.43
1:AP:354:ARG:NH2	2:MP:24:THR:OG1	2.51	0.43
1:BP:213:ALA:HB1	1:BP:228:GLN:HB2	1.99	0.43
1:BP:300:TYR:HE1	1:CP:228:GLN:HB2	1.83	0.43
1:CQ:98:ASN:ND2	1:CQ:99:MET:N	2.67	0.43
1:AQ:239:VAL:HG21	1:AQ:347:ILE:HD13	2.00	0.43
1:LQ:164:ASN:HD21	2:OQ:25:GLU:H	1.66	0.43
1:RQ:41:ASN:ND2	1:RQ:54:LEU:O	2.46	0.43
1:RQ:85:TYR:CD1	1:RQ:122:GLY:HA2	2.53	0.43
1:YQ:164:ASN:HD21	2:aQ:25:GLU:H	1.66	0.43
1:cQ:71:ARG:H	2:gQ:26:LEU:HD12	1.83	0.43
1:cQ:168:GLU:OE2	1:dQ:211:ASN:ND2	2.38	0.43
1:CR:98:ASN:ND2	1:CR:99:MET:N	2.67	0.43
1:CR:108:MET:HG3	1:CR:109:LEU:HD12	1.99	0.43
1:AR:213:ALA:HB1	1:AR:228:GLN:HB2	2.00	0.43
1:JR:133:LEU:HB2	2:OR:11:MET:HG2	2.00	0.43
1:JR:188:VAL:HG12	1:JR:392:LEU:HD23	2.00	0.43
1:JR:213:ALA:HB1	1:JR:228:GLN:HB2	2.00	0.43
1:RR:71:ARG:H	2:VR:26:LEU:HD12	1.83	0.43
1:SR:174:MET:HE3	1:SR:382:LYS:HB3	2.00	0.43
1:YR:98:ASN:ND2	1:YR:99:MET:N	2.67	0.43
1:ZR:239:VAL:HG21	1:ZR:347:ILE:HD13	2.00	0.43
1:gR:204:ALA:C	1:gR:205:ILE:O	2.61	0.43
1:hR:133:LEU:HB2	2:lR:11:MET:HG2	2.00	0.43
1:iR:133:LEU:HD21	1:iR:155:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iR:242:THR:HG21	1:iR:246:LEU:HD12	2.00	0.43
1:JS:128:LYS:HZ1	1:JS:375:TRP:CD1	2.35	0.43
1:B1:260:GLN:HE21	1:B1:260:GLN:HA	1.82	0.43
1:D1:60:GLU:OE2	1:jG:351:LYS:NZ	2.43	0.43
1:Q1:98:ASN:ND2	1:Q1:99:MET:N	2.67	0.43
1:R1:85:TYR:CD1	1:R1:122:GLY:HA2	2.53	0.43
1:R1:222:SER:N	1:CJ:38:LYS:CD	1.89	0.43
1:S1:106:GLU:N	1:LJ:109:LEU:HD22	2.30	0.43
1:S1:242:THR:HG21	1:S1:246:LEU:HD12	2.00	0.43
1:Y1:213:ALA:HB1	1:Y1:228:GLN:HB2	2.00	0.43
1:h1:150:ASN:ND2	2:F4:1:MET:H3	2.16	0.43
1:h1:174:MET:HE3	1:h1:382:LYS:HB3	2.00	0.43
1:h1:372:VAL:HG11	2:F4:11:MET:HB2	1.99	0.43
3:A2:69:VAL:HG13	3:A2:80:ILE:HB	2.00	0.43
3:A2:112:ILE:HG13	2:MD:5:ASN:CA	2.33	0.43
3:A2:175:ILE:HD11	3:A9:163:GLU:HG3	1.99	0.43
4:B2:188:ASP:N	4:B2:188:ASP:OD1	2.51	0.43
5:O2:271:GLN:O	5:O2:274:LEU:HD12	2.17	0.43
1:A3:168:GLU:OE2	1:B3:211:ASN:ND2	2.38	0.43
1:C4:108:MET:HG3	1:C4:109:LEU:HD12	1.99	0.43
1:B4:372:VAL:HG11	2:FR:11:MET:HB2	1.99	0.43
1:D4:235:LEU:HD22	1:D4:264:ILE:HG21	1.99	0.43
1:J4:85:TYR:CD1	1:J4:122:GLY:HA2	2.53	0.43
1:L4:172:ARG:NH1	1:L4:277:GLY:H	2.16	0.43
1:R4:64:ILE:HD11	1:S4:88:GLU:CD	2.44	0.43
1:T4:26:ASN:ND2	1:KS:102:SER:HB3	2.31	0.43
1:T4:136:ASN:HD21	1:KS:99:MET:CE	2.31	0.43
1:T4:264:ILE:H	1:T4:264:ILE:HG13	1.66	0.43
1:Z4:242:THR:HG21	1:Z4:246:LEU:HD12	2.00	0.43
1:a4:172:ARG:NH1	1:a4:277:GLY:H	2.16	0.43
1:f4:81:PHE:HE2	1:gG:139:ARG:HD2	1.63	0.43
1:g4:110:LYS:CE	1:AD:106:GLU:OE1	2.65	0.43
5:D5:9:LYS:HA	5:D5:9:LYS:HD3	1.70	0.43
5:E5:40:THR:CG2	5:DI:45:TYR:OH	2.64	0.43
1:B6:39:TRP:O	1:ZG:222:SER:OG	2.33	0.43
1:D6:179:SER:OG	1:D6:341:TYR:OH	2.29	0.43
1:K6:174:MET:HE3	1:K6:382:LYS:HB3	2.00	0.43
1:i6:260:GLN:HA	1:i6:260:GLN:HE21	1.82	0.43
1:i6:362:PRO:HA	1:i6:363:PRO:HD3	1.79	0.43
1:j6:164:ASN:HD21	2:m6:25:GLU:H	1.66	0.43
1:A7:188:VAL:HG12	1:A7:392:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A7:239:VAL:HG21	1:A7:347:ILE:HD13	2.00	0.43
1:A7:259:PHE:CD1	1:gR:259:PHE:CE1	2.98	0.43
1:B7:50:VAL:HG21	1:DP:137:ASP:OD1	2.18	0.43
1:I7:14:VAL:HG21	1:iR:14:VAL:HG23	1.96	0.43
1:R7:213:ALA:HB1	1:R7:228:GLN:HB2	2.00	0.43
2:V7:11:MET:HB2	1:ME:372:VAL:HG11	1.99	0.43
1:a7:362:PRO:HA	1:a7:363:PRO:HD3	1.80	0.43
1:g7:171:MET:HE3	1:g7:171:MET:HB3	1.88	0.43
2:l7:22:LYS:HD2	2:l7:22:LYS:HA	1.73	0.43
1:J8:71:ARG:H	2:N8:26:LEU:HD12	1.83	0.43
1:J8:101:LEU:HD21	1:CR:136:ASN:HD21	1.82	0.43
1:J8:239:VAL:HG21	1:J8:347:ILE:HD13	2.00	0.43
1:T8:44:THR:OG1	1:T8:45:MET:N	2.51	0.43
1:T8:60:GLU:OE2	1:TL:351:LYS:NZ	2.43	0.43
2:U8:45:ILE:HG13	2:U8:46:HIS:HB3	1.99	0.43
2:d8:22:LYS:HA	2:d8:22:LYS:HD2	1.73	0.43
1:g8:54:LEU:HD23	1:KS:118:THR:CG2	2.43	0.43
1:g8:108:MET:HG3	1:g8:109:LEU:HD12	1.99	0.43
1:i8:14:VAL:O	1:DD:45:MET:N	2.51	0.43
2:l8:1:MET:H3	1:KL:150:ASN:ND2	2.16	0.43
4:B9:4:TYR:HD2	5:EA:44:SER:OG	2.01	0.43
5:N9:433:HIS:HD2	5:O9:158:GLU:OE2	2.02	0.43
5:EB:140:ASP:N	5:CB:139:LYS:CA	2.81	0.43
5:FB:51:ARG:HG2	4:BM:32:PHE:CE1	2.54	0.43
3:AC:241:LYS:HE2	3:AC:241:LYS:HB2	1.86	0.43
1:AD:59:ASN:CG	1:AD:143:GLN:OE1	2.60	0.43
1:BD:300:TYR:HE1	1:CD:228:GLN:HB2	1.82	0.43
1:CD:326:GLU:OE1	1:CD:326:GLU:HA	2.17	0.43
1:DD:382:LYS:HD2	1:KS:34:THR:O	2.18	0.43
1:LD:312:PRO:CD	1:YG:27:HIS:CG	2.98	0.43
2:MD:11:MET:HE2	1:KK:372:VAL:HB	0.99	0.43
1:LE:41:ASN:ND2	1:LE:54:LEU:O	2.46	0.43
1:NE:164:ASN:HD21	2:QE:25:GLU:H	1.66	0.43
1:cE:174:MET:HE3	1:cE:382:LYS:HB3	2.00	0.43
3:AF:69:VAL:HG13	3:AF:80:ILE:HB	1.99	0.43
3:AF:159:HIS:CD2	3:AM:23:HIS:CE1	3.06	0.43
2:EG:45:ILE:HG13	2:EG:46:HIS:HB3	1.99	0.43
1:IG:108:MET:HG3	1:IG:109:LEU:HD12	1.99	0.43
1:KG:234:LYS:NZ	2:NG:28:GLU:OE2	2.36	0.43
2:PG:55:GLY:HA3	2:PQ:2:TYR:HB2	1.94	0.43
1:YG:177:ASP:OD2	1:DK:33:TRP:HZ2	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YG:362:PRO:HA	1:YG:363:PRO:HD3	1.84	0.43
1:aG:57:LYS:CG	1:DK:143:GLN:HE21	1.83	0.43
1:aG:260:GLN:HA	1:aG:260:GLN:HE21	1.82	0.43
3:AH:24:ARG:HB2	3:AH:169:LEU:HD13	2.00	0.43
4:BH:4:TYR:HD2	5:EN:44:SER:OG	2.01	0.43
1:AJ:60:GLU:HB2	1:KJ:87:GLU:H	1.84	0.43
1:AJ:209:GLN:HE22	1:AJ:235:LEU:HB2	1.82	0.43
1:AJ:222:SER:OG	1:JS:39:TRP:C	2.61	0.43
1:CJ:164:ASN:OD1	2:HJ:24:THR:OG1	2.36	0.43
1:CJ:357:LYS:HG2	2:HJ:20:LEU:HD12	1.99	0.43
1:DJ:178:TYR:CB	1:LP:35:PHE:CZ	2.90	0.43
1:LK:365:HIS:CE1	1:DP:362:PRO:CD	2.94	0.43
1:QL:98:ASN:ND2	1:QL:99:MET:N	2.67	0.43
1:ZL:213:ALA:HB1	1:ZL:228:GLN:HB2	2.00	0.43
4:BM:154:GLY:HA3	4:BO:184:ASN:CB	2.49	0.43
5:EM:140:ASP:N	5:CM:139:LYS:HA	2.33	0.43
1:AP:60:GLU:HB2	1:KP:87:GLU:H	1.84	0.43
1:AP:60:GLU:CG	1:KP:86:SER:CB	2.88	0.43
1:AP:163:ILE:HG22	1:KP:96:PRO:HG3	1.99	0.43
1:AP:293:SER:HA	1:AP:324:LEU:HD13	2.01	0.43
1:DP:279:VAL:HG12	1:DP:318:THR:HA	2.00	0.43
1:AQ:64:ILE:HD11	1:BQ:88:GLU:CD	2.44	0.43
1:AQ:213:ALA:HB1	1:AQ:228:GLN:HB2	2.00	0.43
1:QQ:204:ALA:C	1:QQ:205:ILE:O	2.60	0.43
1:RQ:55:PHE:O	1:RQ:57:LYS:NZ	2.45	0.43
1:TQ:172:ARG:NH1	1:TQ:277:GLY:H	2.16	0.43
1:YQ:44:THR:OG1	1:YQ:45:MET:N	2.51	0.43
1:BR:174:MET:HE3	1:BR:382:LYS:HB3	2.00	0.43
1:IR:283:THR:N	1:IR:330:ASN:O	2.44	0.43
1:RR:133:LEU:HB2	2:WR:11:MET:HG2	2.00	0.43
1:RR:188:VAL:HG12	1:RR:392:LEU:HD23	2.00	0.43
1:ZR:64:ILE:HD11	1:aR:88:GLU:CD	2.44	0.43
1:ZR:213:ALA:HB1	1:ZR:228:GLN:HB2	2.00	0.43
1:BS:172:ARG:NH1	1:BS:275:ASP:O	2.51	0.43
1:A1:55:PHE:HA	1:A1:56:PRO:HD3	1.91	0.43
1:J1:188:VAL:HG12	1:J1:392:LEU:HD23	2.00	0.43
1:K1:150:ASN:ND2	2:PE:1:MET:N	2.61	0.43
1:L1:235:LEU:HD22	1:L1:264:ILE:HG21	1.99	0.43
2:N1:22:LYS:HD2	2:N1:22:LYS:HA	1.73	0.43
1:T1:47:GLU:CD	1:BJ:22:LEU:CD2	2.92	0.43
1:Y1:71:ARG:HD3	2:c1:30:MET:HG2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y1:188:VAL:HG12	1:Y1:392:LEU:HD23	2.00	0.43
1:Y1:259:PHE:CD1	1:I6:259:PHE:CE1	2.98	0.43
1:f1:362:PRO:HA	1:f1:363:PRO:HD3	1.84	0.43
1:g1:64:ILE:HD11	1:h1:88:GLU:CD	2.44	0.43
1:g1:188:VAL:HG12	1:g1:392:LEU:HD23	2.00	0.43
4:B2:251:TRP:CB	3:AF:208:LYS:HE2	2.48	0.43
5:F2:31:PHE:HE2	5:F9:47:ASP:CA	2.13	0.43
2:F3:1:MET:H2	1:CE:150:ASN:HD21	1.65	0.43
1:K3:46:PHE:HE1	1:I4:55:PHE:HE1	1.65	0.43
1:K3:260:GLN:HE21	1:K3:260:GLN:HA	1.82	0.43
1:S3:174:MET:HE3	1:S3:382:LYS:HB3	2.00	0.43
1:T3:44:THR:OG1	1:T3:45:MET:N	2.51	0.43
2:d3:15:TYR:HE2	1:BD:133:LEU:HD12	1.83	0.43
2:E4:44:GLN:HB3	2:E4:45:ILE:H	1.63	0.43
1:J4:71:ARG:HD3	2:N4:30:MET:HG2	1.99	0.43
1:J4:203:GLU:HB3	1:C8:248:SER:OG	2.17	0.43
1:R4:121:TYR:HA	1:BS:36:GLY:HA2	2.01	0.43
1:T4:368:GLU:OE2	1:BS:303:TYR:OH	2.31	0.43
1:h4:106:GLU:HG3	1:LD:109:LEU:HD13	1.99	0.43
2:l4:8:ARG:HG2	1:DK:374:HIS:HE2	1.53	0.43
5:C5:265:LEU:CD2	5:NI:233:GLU:H	2.31	0.43
1:A6:55:PHE:HA	1:A6:56:PRO:HD3	1.91	0.43
1:A6:213:ALA:HB1	1:A6:228:GLN:HB2	2.00	0.43
1:D6:361:LYS:HE2	1:D6:377:HIS:HB2	1.98	0.43
1:J6:222:SER:OG	1:K8:39:TRP:O	2.33	0.43
1:R6:133:LEU:HB2	2:W6:11:MET:HG2	2.00	0.43
1:R6:188:VAL:HG12	1:R6:392:LEU:HD23	2.00	0.43
1:Y6:98:ASN:ND2	1:Y6:99:MET:N	2.67	0.43
1:Z6:239:VAL:HG21	1:Z6:347:ILE:HD13	2.00	0.43
1:h6:41:ASN:ND2	1:h6:54:LEU:O	2.46	0.43
1:h6:222:SER:OG	1:B8:39:TRP:O	2.33	0.43
2:n6:22:LYS:HG2	1:AE:360:LEU:HD21	1.95	0.43
1:A7:213:ALA:HB1	1:A7:228:GLN:HB2	2.00	0.43
1:B7:14:VAL:O	1:DP:45:MET:N	2.51	0.43
1:I7:156:TYR:HE1	1:I7:360:LEU:HD11	1.81	0.43
1:J7:111:ARG:HG2	1:bQ:132:THR:HG21	1.23	0.43
1:L7:172:ARG:NH1	1:L7:277:GLY:H	2.16	0.43
1:S7:14:VAL:HG23	1:QR:14:VAL:HG21	1.96	0.43
1:h7:85:TYR:CD1	1:h7:122:GLY:HA2	2.53	0.43
2:l7:11:MET:HB2	1:SG:372:VAL:HG11	1.99	0.43
1:A8:188:VAL:HG12	1:A8:392:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D8:235:LEU:HD22	1:D8:264:ILE:HG21	1.99	0.43
1:J8:367:PRO:O	1:L8:377:HIS:NE2	2.38	0.43
1:S8:260:GLN:HE21	1:S8:260:GLN:HA	1.82	0.43
1:j8:82:ILE:HD13	1:j8:82:ILE:HA	1.85	0.43
3:A9:9:ASN:N	5:FA:29:THR:HA	2.33	0.43
3:A9:24:ARG:HB2	3:A9:169:LEU:HD13	2.00	0.43
5:D9:95:TRP:HE3	5:D9:100:THR:HG21	1.82	0.43
5:DA:38:TYR:HA	3:AB:202:ASN:CG	2.42	0.43
3:AB:258:LYS:HE3	3:AF:311:ILE:CD1	2.47	0.43
5:EB:40:THR:OG1	3:AF:11:GLU:O	2.30	0.43
1:AD:274:ASP:N	1:AD:274:ASP:OD1	2.51	0.43
1:DD:265:ASP:OD2	2:GD:41:TYR:HE1	1.96	0.43
1:KD:25:PHE:O	1:JS:101:LEU:N	2.49	0.43
1:KD:153:LEU:HD23	2:LS:6:ASN:HA	2.00	0.43
1:AE:98:ASN:ND2	1:AE:99:MET:N	2.67	0.43
1:BE:188:VAL:HG12	1:BE:392:LEU:HD23	2.00	0.43
1:ME:260:GLN:HA	1:ME:260:GLN:HE21	1.82	0.43
1:TE:188:VAL:HG12	1:TE:392:LEU:HD23	2.00	0.43
1:VE:172:ARG:NH1	1:VE:277:GLY:H	2.16	0.43
1:bE:55:PHE:O	1:bE:57:LYS:NZ	2.46	0.43
1:cE:46:PHE:HE1	1:CG:55:PHE:HE1	1.65	0.43
1:dE:164:ASN:HD21	2:gE:25:GLU:H	1.66	0.43
1:dE:179:SER:HG	1:dE:341:TYR:HH	1.57	0.43
1:dE:179:SER:OG	1:dE:341:TYR:OH	2.29	0.43
5:EF:45:TYR:HB3	5:EM:38:TYR:HE2	1.83	0.43
5:EF:55:LEU:HD21	5:EM:20:GLU:HB3	2.01	0.43
1:AG:188:VAL:HG12	1:AG:392:LEU:HD23	2.00	0.43
1:DG:44:THR:OG1	1:DG:45:MET:N	2.51	0.43
1:JG:71:ARG:HD3	2:NG:30:MET:HG2	1.99	0.43
1:LG:172:ARG:NH1	1:LG:277:GLY:H	2.16	0.43
1:RG:64:ILE:HD11	1:SG:88:GLU:CD	2.44	0.43
2:XG:55:GLY:HA3	2:fL:2:TYR:HB2	1.94	0.43
3:AI:112:ILE:HB	2:MJ:7:MET:HB3	1.48	0.43
3:AI:254:LEU:HA	3:AI:254:LEU:HD12	1.80	0.43
1:AJ:82:ILE:HG13	1:JS:143:GLN:C	1.94	0.43
1:AJ:91:ILE:HG13	1:LJ:158:LYS:HD2	1.99	0.43
1:AJ:316:VAL:HG13	1:JS:31:LYS:HA	1.99	0.43
1:LJ:33:TRP:HZ3	1:CS:170:GLU:HA	1.83	0.43
1:BK:5:SER:OG	1:jR:5:SER:HB2	2.19	0.43
1:BK:167:GLU:HA	1:BK:170:GLU:HG3	2.01	0.43
1:BK:189:ARG:HB2	1:BK:393:ILE:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:26:ASN:C	1:iR:100:ASP:HB2	2.43	0.43
1:LK:109:LEU:HD13	1:iR:106:GLU:HG3	1.99	0.43
1:DL:98:ASN:O	1:LL:304:GLN:NE2	2.48	0.43
1:DL:172:ARG:NH1	1:DL:277:GLY:H	2.16	0.43
1:JL:64:ILE:HD11	1:KL:88:GLU:CD	2.44	0.43
1:JL:188:VAL:HG12	1:JL:392:LEU:HD23	2.00	0.43
1:KL:174:MET:HE3	1:KL:382:LYS:HB3	2.00	0.43
1:RL:85:TYR:CD1	1:RL:122:GLY:HA2	2.53	0.43
1:TL:172:ARG:NH1	1:TL:277:GLY:H	2.16	0.43
1:ZL:64:ILE:HD11	1:aL:88:GLU:CD	2.44	0.43
1:ZL:152:ALA:O	2:eL:8:ARG:NH1	2.51	0.43
1:ZL:188:VAL:HG12	1:ZL:392:LEU:HD23	2.00	0.43
1:aL:260:GLN:HE21	1:aL:260:GLN:HA	1.82	0.43
3:AM:151:ASN:ND2	3:AO:30:LEU:HG	2.33	0.43
3:AM:159:HIS:CD2	3:AO:23:HIS:CE1	3.06	0.43
5:CM:158:GLU:OE2	5:OM:433:HIS:HD2	2.02	0.43
5:CM:433:HIS:HD2	5:NM:158:GLU:OE2	2.02	0.43
3:AN:69:VAL:HG13	3:AN:80:ILE:HB	1.99	0.43
1:CP:164:ASN:OD1	2:HP:24:THR:OG1	2.36	0.43
1:CP:179:SER:HA	1:CP:183:LEU:HD21	2.00	0.43
1:KP:14:VAL:HA	1:KP:19:LYS:HE2	1.92	0.43
1:LP:216:ASN:HD22	1:LP:229:TYR:HD2	1.66	0.43
1:AQ:64:ILE:CD1	1:BQ:88:GLU:CG	2.93	0.43
1:JQ:71:ARG:HD3	2:NQ:30:MET:HG2	1.99	0.43
1:QQ:362:PRO:HA	1:QQ:363:PRO:HD3	1.84	0.43
1:RQ:239:VAL:HG21	1:RQ:347:ILE:HD13	2.00	0.43
1:SQ:133:LEU:HD21	1:SQ:155:VAL:HG11	2.00	0.43
2:ZQ:45:ILE:HG13	2:ZQ:46:HIS:HB3	1.99	0.43
2:aQ:11:MET:HB2	1:AS:372:VAL:CB	2.45	0.43
1:bQ:184:SER:OG	1:bQ:185:GLU:N	2.50	0.43
1:eQ:164:ASN:HD21	2:hQ:25:GLU:H	1.66	0.43
2:fQ:45:ILE:HG13	2:fQ:46:HIS:HB3	1.99	0.43
1:AR:41:ASN:ND2	1:AR:54:LEU:O	2.46	0.43
1:AR:85:TYR:CD1	1:AR:122:GLY:HA2	2.53	0.43
2:ER:45:ILE:HG13	2:ER:46:HIS:HB3	1.99	0.43
1:LR:172:ARG:NH1	1:LR:277:GLY:H	2.16	0.43
1:ZR:64:ILE:CD1	1:aR:88:GLU:CG	2.93	0.43
2:cR:45:ILE:CG1	2:cR:46:HIS:H	2.23	0.43
1:iR:174:MET:HE3	1:iR:382:LYS:HB3	2.00	0.43
2:ES:31:SER:HA	2:ES:35:ASN:HB3	1.99	0.43
1:IS:274:ASP:N	1:IS:274:ASP:OD1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JS:335:LYS:HD3	1:JS:336:PRO:HD2	2.00	0.43
1:C1:49:PHE:HD1	1:dQ:22:LEU:CD1	2.32	0.43
1:A1:213:ALA:HB1	1:A1:228:GLN:HB2	2.00	0.43
1:J1:71:ARG:HD3	2:N1:30:MET:HG2	1.99	0.43
1:Q1:248:SER:OG	1:R6:203:GLU:HB3	2.17	0.43
1:R1:110:LYS:NZ	1:AJ:106:GLU:OE1	2.49	0.43
1:T1:44:THR:OG1	1:T1:45:MET:N	2.51	0.43
2:U1:11:MET:HE3	1:CJ:372:VAL:CG1	2.25	0.43
1:X1:360:LEU:HD22	2:P6:22:LYS:HG2	1.91	0.43
1:Z1:14:VAL:HG21	1:IR:14:VAL:HG23	1.94	0.43
5:C2:433:HIS:HD2	5:N2:158:GLU:OE2	2.02	0.43
1:A3:55:PHE:O	1:A3:57:LYS:NZ	2.46	0.43
1:A3:71:ARG:HD3	2:F3:30:MET:HG2	1.99	0.43
1:C4:139:ARG:HD3	1:CG:81:PHE:HD2	1.64	0.43
1:D4:44:THR:OG1	1:D4:45:MET:N	2.51	0.43
1:D4:351:LYS:NZ	1:DR:60:GLU:OE2	2.43	0.43
1:I4:108:MET:HG3	1:I4:109:LEU:HD12	1.99	0.43
1:I4:314:GLY:HA3	1:QL:31:LYS:CE	2.49	0.43
1:I4:360:LEU:HD21	2:H8:22:LYS:HG2	1.95	0.43
1:T4:60:GLU:OE2	1:YQ:351:LYS:NZ	2.43	0.43
1:X4:31:LYS:CE	1:CR:314:GLY:HA3	2.49	0.43
1:X4:362:PRO:HA	1:X4:363:PRO:HD3	1.84	0.43
1:Y4:188:VAL:HG12	1:Y4:392:LEU:HD23	2.00	0.43
2:b4:45:ILE:HG13	2:b4:46:HIS:HB3	1.99	0.43
1:f4:31:LYS:CE	1:C6:314:GLY:HA3	2.49	0.43
1:f4:98:ASN:ND2	1:f4:99:MET:N	2.67	0.43
1:f4:360:LEU:HD22	2:fG:22:LYS:HG2	1.91	0.43
1:g4:347:ILE:HD12	1:g4:347:ILE:HA	1.92	0.43
1:h4:22:LEU:CD1	1:gG:49:PHE:HD1	2.32	0.43
2:l4:54:THR:HG22	2:ND:1:MET:HE2	1.97	0.43
3:A5:163:GLU:OE2	3:A5:241:LYS:NZ	2.43	0.43
3:A5:202:ASN:CG	5:DM:38:TYR:HA	2.42	0.43
5:C5:320:ILE:O	5:C5:321:ASP:HB2	2.17	0.43
1:C6:14:VAL:HG21	1:iG:14:VAL:HG23	1.96	0.43
1:C6:49:PHE:HD1	1:iG:22:LEU:CD1	2.32	0.43
1:D6:172:ARG:NH1	1:D6:277:GLY:H	2.16	0.43
1:I6:98:ASN:ND2	1:I6:99:MET:N	2.67	0.43
1:Z6:188:VAL:HG12	1:Z6:392:LEU:HD23	2.00	0.43
1:Z6:213:ALA:HB1	1:Z6:228:GLN:HB2	2.00	0.43
1:h6:64:ILE:HD11	1:i6:88:GLU:CD	2.44	0.43
1:i6:29:TYR:HB3	1:BJ:315:ALA:HB1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i6:140:PHE:CD1	1:BJ:84:GLN:HB3	2.53	0.43
2:l6:1:MET:N	1:B8:150:ASN:ND2	2.61	0.43
2:l6:11:MET:HB2	1:B8:372:VAL:HG11	1.99	0.43
1:C7:14:VAL:CG2	1:CK:45:MET:HE1	2.24	0.43
1:C7:360:LEU:HD22	2:mR:22:LYS:HG2	1.91	0.43
1:A7:71:ARG:HD3	2:F7:30:MET:HG2	1.99	0.43
1:D7:265:ASP:OD1	1:D7:265:ASP:N	2.48	0.43
1:I7:171:MET:HE3	1:I7:171:MET:HB3	1.88	0.43
1:Q7:98:ASN:ND2	1:Q7:99:MET:N	2.67	0.43
1:R7:239:VAL:HG21	1:R7:347:ILE:HD13	2.00	0.43
1:Y7:14:VAL:HG23	1:SQ:14:VAL:HG21	1.94	0.43
1:Z7:133:LEU:HB2	2:e7:11:MET:HG2	2.00	0.43
1:h7:188:VAL:HG12	1:h7:392:LEU:HD23	2.00	0.43
1:j7:172:ARG:NH1	1:j7:277:GLY:H	2.16	0.43
2:k7:45:ILE:HG13	2:k7:46:HIS:HB3	1.99	0.43
1:A8:71:ARG:HD3	2:F8:30:MET:HG2	1.99	0.43
1:B8:174:MET:HE3	1:B8:382:LYS:HB3	2.00	0.43
1:J8:213:ALA:HB1	1:J8:228:GLN:HB2	2.00	0.43
1:a8:22:LEU:CD1	1:bQ:49:PHE:HD1	2.32	0.43
1:a8:137:ASP:OD1	1:bQ:48:THR:HG22	2.17	0.43
1:h8:239:VAL:HG21	1:h8:347:ILE:HD13	2.00	0.43
1:i8:57:LYS:HA	1:DD:143:GLN:HE21	1.82	0.43
1:j8:44:THR:OG1	1:j8:45:MET:N	2.51	0.43
1:j8:235:LEU:HD22	1:j8:264:ILE:HG21	1.99	0.43
5:CA:265:LEU:CD2	5:NC:233:GLU:H	2.31	0.43
5:EB:136:SER:O	5:EB:140:ASP:N	2.50	0.43
5:FB:29:THR:HA	3:AF:9:ASN:N	2.33	0.43
5:NB:320:ILE:O	5:NB:321:ASP:HB2	2.17	0.43
5:NB:433:HIS:HD2	5:OB:158:GLU:OE2	2.02	0.43
3:AC:9:ASN:N	5:FH:29:THR:HA	2.33	0.43
5:EC:38:TYR:HE2	5:EH:45:TYR:HB3	1.83	0.43
5:EC:140:ASP:N	5:CC:139:LYS:HA	2.33	0.43
5:CC:433:HIS:HD2	5:NC:158:GLU:OE2	2.02	0.43
1:AD:243:THR:HG22	1:AD:276:LEU:HD23	2.00	0.43
1:LD:35:PHE:CE1	1:DK:174:MET:O	2.65	0.43
1:LD:362:PRO:HA	1:LD:363:PRO:HD3	1.83	0.43
1:LD:382:LYS:CE	1:YG:32:SER:O	2.54	0.43
2:MD:2:TYR:HD2	1:KK:153:LEU:HD11	1.60	0.43
1:DE:44:THR:OG1	1:DE:45:MET:N	2.51	0.43
1:BE:213:ALA:HB1	1:BE:228:GLN:HB2	2.00	0.43
1:BE:239:VAL:HG21	1:BE:347:ILE:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KE:289:GLN:N	1:KE:326:GLU:OE2	2.46	0.43
1:SE:171:MET:HE3	1:SE:171:MET:HB3	1.88	0.43
1:TE:85:TYR:CD1	1:TE:122:GLY:HA2	2.53	0.43
1:TE:111:ARG:HG2	1:IQ:132:THR:HG21	1.23	0.43
1:aE:150:ASN:OD1	2:XG:2:TYR:CB	2.53	0.43
1:bE:71:ARG:H	2:fE:26:LEU:HD12	1.83	0.43
1:bE:239:VAL:HG21	1:bE:347:ILE:HD13	2.00	0.43
1:bE:259:PHE:CD1	1:CR:259:PHE:CE1	2.98	0.43
4:BF:251:TRP:CB	3:AO:208:LYS:HE2	2.48	0.43
5:EF:140:ASP:N	5:CF:139:LYS:HA	2.33	0.43
5:CF:158:GLU:OE2	5:OF:433:HIS:HD2	2.02	0.43
1:CG:289:GLN:N	1:CG:326:GLU:OE2	2.46	0.43
1:AG:85:TYR:CD1	1:AG:122:GLY:HA2	2.53	0.43
1:QG:150:ASN:OD1	2:HQ:2:TYR:CB	2.53	0.43
1:SG:260:GLN:HE21	1:SG:260:GLN:HA	1.82	0.43
1:ZG:188:VAL:HG12	1:ZG:392:LEU:HD23	2.00	0.43
1:gG:184:SER:OG	1:gG:185:GLU:N	2.50	0.43
1:hG:85:TYR:CD1	1:hG:122:GLY:HA2	2.53	0.43
1:iG:174:MET:HE3	1:iG:382:LYS:HB3	2.00	0.43
1:jG:164:ASN:HD21	2:mG:25:GLU:H	1.66	0.43
5:DH:95:TRP:HE3	5:DH:100:THR:HG21	1.82	0.43
1:AJ:82:ILE:CG2	1:JS:143:GLN:O	2.66	0.43
1:KJ:33:TRP:HB2	1:AP:174:MET:HG2	1.77	0.43
1:KJ:80:ASP:CB	3:AN:64:GLN:CB	2.93	0.43
1:KJ:143:GLN:O	1:AP:82:ILE:CG2	2.66	0.43
1:LJ:54:LEU:HD12	1:CS:118:THR:HB	1.99	0.43
1:LJ:297:LEU:HB3	1:LJ:302:ASP:HB3	2.01	0.43
1:AK:82:ILE:CG2	1:KP:143:GLN:O	2.66	0.43
1:BK:360:LEU:HB2	2:EK:19:ARG:HH12	1.83	0.43
1:CK:33:TRP:CE2	1:hR:174:MET:HA	2.54	0.43
1:LK:33:TRP:HZ3	1:DP:170:GLU:HA	1.83	0.43
1:LK:39:TRP:C	1:DP:222:SER:HG	2.01	0.43
1:LK:54:LEU:HD12	1:DP:118:THR:HB	1.99	0.43
1:LK:268:ASP:N	1:LK:268:ASP:OD1	2.51	0.43
1:LK:349:SER:O	1:LK:385:SER:N	2.38	0.43
1:CL:156:TYR:HE1	1:CL:360:LEU:HD11	1.81	0.43
1:LL:44:THR:OG1	1:LL:45:MET:N	2.51	0.43
1:ZL:71:ARG:H	2:dL:26:LEU:HD12	1.83	0.43
1:ZL:168:GLU:OE2	1:aL:211:ASN:ND2	2.38	0.43
5:EN:140:ASP:N	5:CN:139:LYS:CA	2.81	0.43
5:ON:320:ILE:O	5:ON:321:ASP:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:49:PHE:O	1:AP:51:ASN:N	2.50	0.43
1:CP:172:ARG:NH1	1:CP:275:ASP:O	2.51	0.43
1:DP:162:ASP:OD1	1:DP:162:ASP:N	2.49	0.43
1:DP:284:LYS:HE2	1:DP:330:ASN:HB3	1.99	0.43
2:FP:16:GLU:OE1	2:FP:16:GLU:N	2.51	0.43
2:MP:11:MET:HA	2:MP:14:SER:HB2	2.00	0.43
1:BQ:242:THR:HG21	1:BQ:246:LEU:HD12	2.00	0.43
2:EQ:45:ILE:CG1	2:EQ:46:HIS:H	2.23	0.43
1:cQ:85:TYR:CD1	1:cQ:122:GLY:HA2	2.53	0.43
1:dQ:174:MET:HE3	1:dQ:382:LYS:HB3	2.00	0.43
1:eQ:44:THR:OG1	1:eQ:45:MET:N	2.51	0.43
1:DR:164:ASN:HD21	2:GR:25:GLU:H	1.66	0.43
1:JR:239:VAL:HG21	1:JR:347:ILE:HD13	2.00	0.43
2:MR:45:ILE:HG13	2:MR:46:HIS:HB3	1.99	0.43
1:ZR:347:ILE:HD12	1:ZR:347:ILE:HA	1.92	0.43
1:gR:98:ASN:ND2	1:gR:99:MET:N	2.67	0.43
1:AS:213:ALA:HB1	1:AS:228:GLN:HB2	1.99	0.43
1:AS:360:LEU:HB2	2:DS:19:ARG:HH12	1.83	0.43
1:BS:158:LYS:HD3	1:KS:91:ILE:HB	2.00	0.43
1:KS:344:ILE:HD11	1:KS:391:ILE:HB	2.00	0.43
1:C1:12:LEU:HD21	1:C1:44:THR:HG22	2.01	0.43
1:C1:314:GLY:HA3	1:Y8:31:LYS:CE	2.49	0.43
1:I1:98:ASN:ND2	1:I1:99:MET:N	2.67	0.43
1:K1:39:TRP:O	1:LE:222:SER:OG	2.33	0.43
1:K1:174:MET:HE3	1:K1:382:LYS:HB3	2.00	0.43
1:K1:372:VAL:HG11	2:PE:11:MET:HB2	1.99	0.43
1:L1:159:LYS:NZ	1:T8:94:THR:OG1	2.34	0.43
1:L1:237:ASP:HB2	1:L1:347:ILE:HG22	2.01	0.43
2:P1:22:LYS:HG2	1:IG:360:LEU:HD21	1.95	0.43
1:Q1:31:LYS:CE	1:IG:314:GLY:HA3	2.49	0.43
1:R1:115:ARG:NH2	1:Q6:300:TYR:CA	2.75	0.43
1:X1:314:GLY:HA3	1:IR:31:LYS:CE	2.49	0.43
1:Y1:71:ARG:H	2:c1:26:LEU:HD12	1.83	0.43
1:Z1:22:LEU:CD1	1:IR:49:PHE:HD1	2.32	0.43
1:a1:265:ASP:OD1	1:a1:265:ASP:N	2.48	0.43
1:g1:133:LEU:HB2	2:l1:11:MET:HG2	1.99	0.43
1:h1:242:THR:HG21	1:h1:246:LEU:HD12	2.00	0.43
3:A2:64:GLN:CG	1:KK:80:ASP:O	2.65	0.43
4:B2:233:ASP:OD1	4:B2:233:ASP:N	2.50	0.43
5:E2:25:ARG:NH1	5:D9:54:LYS:CD	2.71	0.43
5:F2:55:LEU:HD11	4:BF:32:PHE:HD2	1.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D3:44:THR:OG1	1:D3:45:MET:N	2.51	0.43
2:F3:22:LYS:HD2	2:F3:22:LYS:HA	1.73	0.43
2:H3:2:TYR:CB	1:C8:150:ASN:OD1	2.53	0.43
1:I3:49:PHE:HD1	1:SL:22:LEU:CD1	2.32	0.43
1:I3:209:GLN:HE22	1:I3:235:LEU:HB2	1.84	0.43
1:Q3:81:PHE:HD2	1:CR:139:ARG:HD2	1.25	0.43
1:Q3:314:GLY:HA3	1:CR:31:LYS:CE	2.49	0.43
1:R3:71:ARG:H	2:V3:26:LEU:HD12	1.83	0.43
1:T3:164:ASN:HD21	2:W3:25:GLU:H	1.66	0.43
2:c3:45:ILE:HG13	2:c3:46:HIS:HB3	1.99	0.43
1:A4:131:PHE:HB3	1:A4:159:LYS:HE3	2.01	0.43
1:A4:239:VAL:HG21	1:A4:347:ILE:HD13	2.00	0.43
1:B4:150:ASN:HD21	2:FR:1:MET:H3	1.65	0.43
1:S4:260:GLN:HA	1:S4:260:GLN:HE21	1.82	0.43
1:X4:49:PHE:HD1	1:BR:22:LEU:CD1	2.32	0.43
1:Y4:213:ALA:HB1	1:Y4:228:GLN:HB2	2.00	0.43
1:a4:237:ASP:HB2	1:a4:347:ILE:HG22	2.01	0.43
1:g4:367:PRO:O	1:i4:377:HIS:NE2	2.38	0.43
1:h4:106:GLU:N	1:LD:109:LEU:HD22	2.30	0.43
3:A5:25:ASN:ND2	5:DI:34:ASP:N	2.67	0.43
3:A5:258:LYS:HE3	3:AN:311:ILE:CD1	2.47	0.43
4:B5:154:GLY:HA3	4:BN:184:ASN:CB	2.49	0.43
5:D5:24:THR:CA	3:AH:7:GLY:N	2.47	0.43
5:E5:44:SER:OG	4:BN:4:TYR:HD2	2.01	0.43
1:A6:85:TYR:CD1	1:A6:122:GLY:HA2	2.53	0.43
1:S6:14:VAL:O	1:CS:45:MET:N	2.51	0.43
1:S6:57:LYS:HA	1:CS:143:GLN:HE21	1.82	0.43
1:Y6:360:LEU:HD21	2:RE:22:LYS:HG2	1.95	0.43
1:g6:177:ASP:OD2	1:DJ:33:TRP:HZ2	2.01	0.43
1:h6:89:TYR:CZ	1:AE:63:LEU:HD13	2.51	0.43
1:i6:14:VAL:O	1:DJ:45:MET:N	2.51	0.43
1:A7:71:ARG:H	2:F7:26:LEU:HD12	1.83	0.43
1:L7:44:THR:OG1	1:L7:45:MET:N	2.51	0.43
1:Q7:49:PHE:HD1	1:aL:22:LEU:CD1	2.32	0.43
1:R7:85:TYR:CD1	1:R7:122:GLY:HA2	2.53	0.43
1:S7:372:VAL:HG11	2:VL:11:MET:HB2	1.99	0.43
1:T7:44:THR:OG1	1:T7:45:MET:N	2.51	0.43
1:Y7:314:GLY:HA3	1:KE:31:LYS:CE	2.49	0.43
1:Y7:360:LEU:HD21	2:PR:22:LYS:HG2	1.94	0.43
1:a7:242:THR:HG21	1:a7:246:LEU:HD12	2.00	0.43
1:b7:44:THR:OG1	1:b7:45:MET:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j7:264:ILE:H	1:j7:264:ILE:HG13	1.66	0.43
1:C8:98:ASN:ND2	1:C8:99:MET:N	2.67	0.43
1:D8:237:ASP:HB2	1:D8:347:ILE:HG22	2.01	0.43
1:I8:321:VAL:HG22	1:I8:327:PHE:CE2	2.51	0.43
1:J8:133:LEU:HB2	2:O8:11:MET:HG2	2.00	0.43
1:L8:237:ASP:HB2	1:L8:347:ILE:HG22	2.01	0.43
2:M8:45:ILE:HG13	2:M8:46:HIS:HB3	1.99	0.43
1:Q8:184:SER:OG	1:Q8:185:GLU:N	2.50	0.43
1:S8:46:PHE:HE1	1:IG:55:PHE:HE1	1.65	0.43
1:Y8:98:ASN:ND2	1:Y8:99:MET:N	2.67	0.43
1:Y8:108:MET:HG3	1:Y8:109:LEU:HD12	1.99	0.43
1:g8:375:TRP:CE3	1:DD:367:PRO:CG	2.93	0.43
1:h8:131:PHE:HB3	1:h8:159:LYS:HE3	2.01	0.43
3:A9:36:LEU:HD23	1:AK:139:ARG:NH1	2.33	0.43
4:B9:32:PHE:CE1	5:FC:51:ARG:HG2	2.54	0.43
5:F9:51:ARG:HG2	4:BB:32:PHE:CE1	2.54	0.43
3:AA:106:ARG:CB	2:MK:19:ARG:NE	2.67	0.43
4:BA:184:ASN:CB	4:BC:154:GLY:HA3	2.49	0.43
5:DC:95:TRP:HE3	5:DC:100:THR:HG21	1.82	0.43
5:EC:20:GLU:HB3	5:EH:55:LEU:HD21	2.01	0.43
5:EC:136:SER:O	5:EC:140:ASP:N	2.50	0.43
1:LD:31:LYS:HD2	1:DK:316:VAL:HG12	1.96	0.43
1:LD:216:ASN:HD22	1:LD:229:TYR:HD2	1.66	0.43
1:LE:64:ILE:HD11	1:ME:88:GLU:CD	2.44	0.43
1:UE:242:THR:HG21	1:UE:246:LEU:HD12	2.00	0.43
1:aE:98:ASN:ND2	1:aE:99:MET:N	2.67	0.43
1:bE:64:ILE:HD11	1:cE:88:GLU:CD	2.44	0.43
3:AF:163:GLU:HG3	3:AM:175:ILE:HD11	1.99	0.43
3:AF:303:TYR:O	3:AM:309:SER:HB3	2.19	0.43
4:BF:233:ASP:OD1	4:BF:233:ASP:N	2.50	0.43
1:AG:73:ASN:HB2	1:AG:354:ARG:HH22	1.83	0.43
1:QG:204:ALA:C	1:QG:205:ILE:O	2.60	0.43
1:YG:302:ASP:CG	1:DK:29:TYR:CZ	2.84	0.43
1:ZG:239:VAL:HG21	1:ZG:347:ILE:HD13	2.00	0.43
1:bG:237:ASP:HB2	1:bG:347:ILE:HG22	2.01	0.43
1:jG:44:THR:OG1	1:jG:45:MET:N	2.51	0.43
2:nG:22:LYS:HG2	1:CL:360:LEU:HD22	1.91	0.43
3:AH:9:ASN:O	5:FN:28:TYR:N	2.52	0.43
5:CH:158:GLU:OE2	5:OH:433:HIS:HD2	2.02	0.43
5:NH:433:HIS:HD2	5:OH:158:GLU:OE2	2.02	0.43
3:AI:9:ASN:N	5:FO:29:THR:HA	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BI:188:ASP:N	4:BI:188:ASP:OD1	2.51	0.43
5:CI:433:HIS:HD2	5:NI:158:GLU:OE2	2.02	0.43
1:AJ:120:LEU:HD12	1:JS:55:PHE:CD1	2.45	0.43
1:AK:46:PHE:CB	1:DK:106:GLU:CB	2.96	0.43
1:CK:53:TYR:HB3	1:hR:118:THR:CG2	2.48	0.43
1:CK:164:ASN:OD1	2:HK:24:THR:OG1	2.36	0.43
1:CK:254:LYS:HE2	1:CK:254:LYS:HB2	1.75	0.43
2:FK:31:SER:HA	2:FK:35:ASN:HB3	2.00	0.43
1:LK:344:ILE:HD11	1:LK:391:ILE:HB	1.99	0.43
1:CL:171:MET:HE3	1:CL:171:MET:HB3	1.88	0.43
1:AL:85:TYR:CD1	1:AL:122:GLY:HA2	2.53	0.43
1:BL:133:LEU:HD21	1:BL:155:VAL:HG11	2.00	0.43
1:BL:150:ASN:ND2	2:NL:1:MET:H3	2.16	0.43
1:IL:98:ASN:ND2	1:IL:99:MET:N	2.67	0.43
1:JL:133:LEU:HB2	2:OL:11:MET:HG2	1.99	0.43
1:TL:44:THR:OG1	1:TL:45:MET:N	2.51	0.43
1:TL:325:LYS:HB2	1:TL:325:LYS:HZ3	1.80	0.43
1:YL:49:PHE:HD1	1:SR:22:LEU:CD1	2.32	0.43
1:ZL:73:ASN:HB2	1:ZL:354:ARG:HH22	1.83	0.43
1:ZL:133:LEU:HB2	2:eL:11:MET:HG2	2.00	0.43
3:AM:112:ILE:CG1	2:LS:17:ASP:HB3	2.34	0.43
5:EM:55:LEU:HD21	5:EO:20:GLU:HB3	2.01	0.43
5:OM:320:ILE:O	5:OM:321:ASP:HB2	2.17	0.43
3:AN:202:ASN:HD22	5:DO:38:TYR:HB3	1.78	0.43
5:EN:107:ASP:HB3	5:EN:108:GLU:H	1.63	0.43
1:AP:243:THR:HG22	1:AP:276:LEU:HD23	2.00	0.43
1:AQ:347:ILE:HD12	1:AQ:347:ILE:HA	1.92	0.43
1:KQ:242:THR:HG21	1:KQ:246:LEU:HD12	2.00	0.43
1:LQ:44:THR:OG1	1:LQ:45:MET:N	2.51	0.43
1:QQ:283:THR:N	1:QQ:330:ASN:O	2.44	0.43
1:SQ:150:ASN:HD21	2:NR:1:MET:H3	1.63	0.43
2:aQ:15:TYR:HE2	1:AS:133:LEU:HD12	1.83	0.43
1:IR:98:ASN:ND2	1:IR:99:MET:N	2.67	0.43
1:LR:179:SER:OG	1:LR:341:TYR:OH	2.29	0.43
1:BS:164:ASN:OD1	2:GS:24:THR:OG1	2.36	0.43
1:CS:119:LYS:NZ	1:CS:220:ARG:O	2.44	0.43
1:CS:265:ASP:OD2	2:FS:41:TYR:HE1	1.96	0.43
1:CS:284:LYS:HE2	1:CS:330:ASN:HB3	1.99	0.43
1:JS:240:ILE:HG13	1:JS:270:VAL:HA	1.99	0.43
1:JS:287:LYS:HZ3	1:JS:309:ASP:H	1.65	0.43
1:KS:297:LEU:HB3	1:KS:302:ASP:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:172:ARG:NH1	1:D1:277:GLY:H	2.16	0.43
1:S1:22:LEU:CD1	1:Q8:49:PHE:HD1	2.32	0.43
1:X1:31:LYS:CE	1:I8:314:GLY:HA3	2.49	0.43
1:X1:49:PHE:HD1	1:K8:22:LEU:CD1	2.32	0.43
1:a1:172:ARG:NH1	1:a1:277:GLY:H	2.16	0.43
2:e1:22:LYS:HG2	1:I6:360:LEU:HD21	1.95	0.43
1:f1:98:ASN:ND2	1:f1:99:MET:N	2.67	0.43
1:i1:44:THR:OG1	1:i1:45:MET:N	2.51	0.43
1:i1:237:ASP:HB2	1:i1:347:ILE:HG22	2.01	0.43
3:A2:30:LEU:HG	3:A9:151:ASN:ND2	2.33	0.43
5:D2:55:LEU:H	5:D2:55:LEU:HG	1.62	0.43
5:E2:20:GLU:HB3	5:E9:55:LEU:HD21	2.01	0.43
1:B3:242:THR:HG21	1:B3:246:LEU:HD12	2.00	0.43
1:J3:55:PHE:O	1:J3:57:LYS:NZ	2.46	0.43
1:J3:131:PHE:HB3	1:J3:159:LYS:HE3	2.01	0.43
1:Y3:237:ASP:HB2	1:Y3:347:ILE:HG22	2.01	0.43
1:b3:164:ASN:HD21	2:d3:25:GLU:H	1.66	0.43
1:A4:55:PHE:HA	1:A4:56:PRO:HD3	1.91	0.43
1:A4:71:ARG:H	2:F4:26:LEU:HD12	1.83	0.43
1:A4:188:VAL:HG12	1:A4:392:LEU:HD23	2.00	0.43
2:E4:45:ILE:CG1	2:E4:46:HIS:H	2.23	0.43
1:I4:248:SER:OG	1:A8:203:GLU:HB3	2.17	0.43
1:J4:131:PHE:HB3	1:J4:159:LYS:HE3	2.01	0.43
1:K4:174:MET:HE3	1:K4:382:LYS:HB3	2.00	0.43
1:Q4:132:THR:HG21	1:h8:111:ARG:HG2	1.23	0.43
1:Q4:204:ALA:C	1:Q4:205:ILE:O	2.60	0.43
1:R4:118:THR:CG2	1:BS:53:TYR:HB3	2.48	0.43
1:R4:131:PHE:HB3	1:R4:159:LYS:HE3	2.01	0.43
1:T4:136:ASN:HA	1:BS:81:PHE:HZ	1.84	0.43
1:f4:12:LEU:HD21	1:f4:44:THR:HG22	2.01	0.43
1:f4:108:MET:HG3	1:f4:109:LEU:HD12	1.99	0.43
1:h4:137:ASP:OD1	1:gG:48:THR:HG22	2.17	0.43
2:j4:15:TYR:CE2	1:CD:133:LEU:HD23	2.52	0.43
3:A5:23:HIS:CE1	3:AI:159:HIS:CD2	3.06	0.43
4:B5:251:TRP:CB	3:AH:208:LYS:HE2	2.48	0.43
5:F5:28:TYR:N	3:AN:9:ASN:O	2.52	0.43
5:F5:51:ARG:HG2	4:BH:32:PHE:CE1	2.54	0.43
5:C5:158:GLU:OE2	5:O5:433:HIS:HD2	2.02	0.43
1:C6:12:LEU:HD21	1:C6:44:THR:HG22	2.01	0.43
1:A6:73:ASN:HB2	1:A6:354:ARG:HH22	1.82	0.43
1:D6:60:GLU:OE2	1:eQ:351:LYS:NZ	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D6:237:ASP:HB2	1:D6:347:ILE:HG22	2.01	0.43
1:I6:314:GLY:HA3	1:CL:31:LYS:CE	2.49	0.43
1:J6:41:ASN:ND2	1:J6:54:LEU:O	2.46	0.43
1:J6:188:VAL:HG12	1:J6:392:LEU:HD23	2.00	0.43
1:Q6:316:VAL:CA	1:CS:31:LYS:NZ	2.38	0.43
1:R6:71:ARG:HD3	2:V6:30:MET:HG2	1.99	0.43
1:S6:33:TRP:HB3	1:AS:174:MET:HG3	1.44	0.43
1:Z6:203:GLU:HB3	1:KE:248:SER:OG	2.17	0.43
1:g6:248:SER:OG	1:BE:203:GLU:HB3	2.17	0.43
1:i6:57:LYS:HA	1:DJ:143:GLN:HE21	1.82	0.43
1:B7:29:TYR:HB3	1:BP:315:ALA:HB1	2.00	0.43
1:B7:45:MET:HE1	1:DP:39:TRP:HE3	1.83	0.43
1:I7:31:LYS:CE	1:gR:314:GLY:HA3	2.49	0.43
1:K7:133:LEU:HD21	1:K7:155:VAL:HG11	2.00	0.43
1:Q7:14:VAL:HG23	1:aL:14:VAL:HG23	1.97	0.43
1:S7:133:LEU:HD21	1:S7:155:VAL:HG11	2.00	0.43
1:T7:164:ASN:HD21	2:W7:25:GLU:H	1.66	0.43
1:Y7:289:GLN:N	1:Y7:326:GLU:OE2	2.46	0.43
1:Z7:188:VAL:HG12	1:Z7:392:LEU:HD23	2.00	0.43
1:g7:12:LEU:HD21	1:g7:44:THR:HG22	2.01	0.43
1:h7:71:ARG:HD3	2:l7:30:MET:HG2	1.99	0.43
1:A8:239:VAL:HG21	1:A8:347:ILE:HD13	2.00	0.43
1:I8:49:PHE:HD1	1:KR:22:LEU:CD1	2.32	0.43
1:I8:209:GLN:HE22	1:I8:235:LEU:HB2	1.84	0.43
1:Q8:209:GLN:HE22	1:Q8:235:LEU:HB2	1.84	0.43
1:R8:131:PHE:HB3	1:R8:159:LYS:HE3	2.01	0.43
1:Y8:12:LEU:HD21	1:Y8:44:THR:HG22	2.01	0.43
1:g8:27:HIS:N	1:IS:100:ASP:CG	2.70	0.43
1:h8:188:VAL:HG12	1:h8:392:LEU:HD23	2.00	0.43
1:i8:45:MET:HE1	1:DD:39:TRP:HE3	1.83	0.43
3:A9:25:ASN:ND2	5:DA:34:ASP:N	2.67	0.43
3:A9:69:VAL:HG13	3:A9:80:ILE:HB	1.99	0.43
5:E9:140:ASP:N	5:C9:139:LYS:HA	2.33	0.43
5:C9:433:HIS:HD2	5:N9:158:GLU:OE2	2.02	0.43
3:AA:9:ASN:O	5:FC:28:TYR:N	2.52	0.43
5:FB:28:TYR:N	3:AF:9:ASN:O	2.52	0.43
5:CB:433:HIS:HD2	5:NB:158:GLU:OE2	2.02	0.43
5:NB:233:GLU:H	5:CF:265:LEU:CD2	2.31	0.43
3:AC:23:HIS:CE1	3:AH:159:HIS:CD2	3.06	0.43
3:AC:114:PHE:CA	2:MP:51:GLN:HG2	2.49	0.43
3:AC:212:MET:HE2	4:BN:244:LYS:CB	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CC:265:LEU:CD2	5:NH:233:GLU:H	2.31	0.43
1:AD:116:MET:HG2	1:KK:51:ASN:HD22	1.71	0.43
1:AD:123:ASN:HD22	1:KK:21:ALA:HB1	1.73	0.43
1:AD:145:LEU:HD23	3:AF:37:GLU:HB2	1.99	0.43
1:BD:260:GLN:HG2	1:DD:261:ILE:HG21	2.00	0.43
1:DD:109:LEU:CG	1:JS:105:GLU:CD	2.91	0.43
1:DD:118:THR:HB	1:KS:54:LEU:HD12	1.99	0.43
2:ED:36:LYS:HE2	2:ED:36:LYS:HB3	1.82	0.43
1:KD:281:LYS:NZ	1:KD:313:VAL:O	2.32	0.43
1:KD:335:LYS:HD3	1:KD:336:PRO:HD2	2.00	0.43
1:LD:317:PHE:CZ	1:YG:29:TYR:HD2	2.23	0.43
1:DE:222:SER:OG	1:BP:39:TRP:O	2.29	0.43
2:GE:15:TYR:HE2	1:BP:133:LEU:HD12	1.83	0.43
1:BE:134:ASN:O	2:IE:15:TYR:OH	2.31	0.43
1:BE:174:MET:HA	1:CP:33:TRP:CE2	2.54	0.43
1:SE:12:LEU:HD21	1:SE:44:THR:HG22	2.01	0.43
2:WE:45:ILE:HG13	2:WE:46:HIS:HB3	1.99	0.43
1:bE:41:ASN:ND2	1:bE:54:LEU:O	2.46	0.43
1:bE:367:PRO:O	1:dE:377:HIS:NE2	2.38	0.43
2:hE:22:LYS:HG2	1:CR:360:LEU:HD22	1.91	0.43
3:AF:79:MET:HE2	3:AF:79:MET:HB3	1.82	0.43
4:BF:147:THR:HG22	4:BM:192:THR:CB	2.43	0.43
5:CF:433:HIS:HD2	5:NF:158:GLU:OE2	2.02	0.43
5:NF:433:HIS:HD2	5:OF:158:GLU:OE2	2.02	0.43
1:AG:144:THR:HG22	1:AG:146:ALA:H	1.84	0.43
1:JG:131:PHE:HB3	1:JG:159:LYS:HE3	2.01	0.43
1:KG:133:LEU:HD21	1:KG:155:VAL:HG11	2.00	0.43
1:RG:131:PHE:HB3	1:RG:159:LYS:HE3	2.01	0.43
1:RG:213:ALA:HB1	1:RG:228:GLN:HB2	2.00	0.43
1:TG:44:THR:OG1	1:TG:45:MET:N	2.51	0.43
1:ZG:131:PHE:HB3	1:ZG:159:LYS:HE3	2.01	0.43
1:ZG:213:ALA:HB1	1:ZG:228:GLN:HB2	2.00	0.43
1:aG:133:LEU:HD21	1:aG:155:VAL:HG11	2.00	0.43
1:iG:133:LEU:HD21	1:iG:155:VAL:HG11	2.00	0.43
5:FI:55:LEU:HD11	4:BN:32:PHE:HD2	1.64	0.43
1:BJ:39:TRP:O	1:gL:222:SER:OG	2.29	0.43
1:KJ:80:ASP:CG	3:AN:64:GLN:CG	2.92	0.43
1:LJ:355:TYR:HB3	1:LJ:379:TYR:HB3	2.01	0.43
1:AK:58:ILE:HG13	1:AK:58:ILE:H	1.58	0.43
1:AK:222:SER:HG	1:KP:39:TRP:C	2.12	0.43
1:BK:55:PHE:CD2	1:jR:58:ILE:HD11	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:38:LYS:CD	1:hR:119:LYS:CE	2.96	0.43
1:CK:174:MET:HE1	1:CK:384:ILE:HG23	2.01	0.43
1:CK:179:SER:HA	1:CK:183:LEU:HD21	2.00	0.43
1:LK:45:MET:HE3	1:KP:19:LYS:HE2	2.00	0.43
1:DL:44:THR:OG1	1:DL:45:MET:N	2.51	0.43
1:JL:131:PHE:HB3	1:JL:159:LYS:HE3	2.01	0.43
1:KL:242:THR:HG21	1:KL:246:LEU:HD12	2.00	0.43
1:LL:237:ASP:HB2	1:LL:347:ILE:HG22	2.01	0.43
1:QL:248:SER:OG	1:RR:203:GLU:HB3	2.17	0.43
1:YL:204:ALA:C	1:YL:205:ILE:O	2.61	0.43
1:gL:44:THR:OG1	1:gL:45:MET:N	2.51	0.43
3:AM:303:TYR:O	3:AO:309:SER:HB3	2.19	0.43
5:CO:320:ILE:O	5:CO:321:ASP:HB2	2.17	0.43
1:CP:158:LYS:HD3	1:LP:91:ILE:HB	2.00	0.43
1:CP:326:GLU:OE1	1:CP:326:GLU:HA	2.17	0.43
1:DP:30:SER:CB	1:hR:98:ASN:HD22	2.31	0.43
1:DP:157:LYS:HE3	2:mR:2:TYR:HE2	1.61	0.43
1:DP:265:ASP:OD2	2:GP:41:TYR:HE1	1.96	0.43
1:KP:276:LEU:HD13	1:KP:276:LEU:HA	1.89	0.43
1:DQ:172:ARG:NH1	1:DQ:277:GLY:H	2.16	0.43
1:QQ:98:ASN:ND2	1:QQ:99:MET:N	2.67	0.43
1:QQ:289:GLN:N	1:QQ:326:GLU:OE2	2.46	0.43
1:RQ:188:VAL:HG12	1:RQ:392:LEU:HD23	2.00	0.43
1:bQ:209:GLN:HE22	1:bQ:235:LEU:HB2	1.84	0.43
1:dQ:133:LEU:HD21	1:dQ:155:VAL:HG11	2.00	0.43
1:JR:71:ARG:H	2:NR:26:LEU:HD12	1.83	0.43
1:RR:71:ARG:HD3	2:VR:30:MET:HG2	1.99	0.43
1:aR:242:THR:HG21	1:aR:246:LEU:HD12	2.00	0.43
1:bR:172:ARG:NH1	1:bR:277:GLY:H	2.16	0.43
1:hR:188:VAL:HG12	1:hR:392:LEU:HD23	2.00	0.43
1:BS:302:ASP:OD2	1:BS:305:SER:OG	2.34	0.43
1:A1:85:TYR:CD1	1:A1:122:GLY:HA2	2.53	0.43
1:D1:237:ASP:HB2	1:D1:347:ILE:HG22	2.01	0.43
1:I1:150:ASN:OD1	2:PQ:2:TYR:CB	2.53	0.43
1:J1:73:ASN:HB2	1:J1:354:ARG:HH22	1.83	0.43
1:K1:14:VAL:HG21	1:Y6:14:VAL:HG23	1.94	0.43
1:Q1:314:GLY:HA3	1:Q8:31:LYS:CE	2.49	0.43
1:T1:26:ASN:ND2	1:LJ:102:SER:HB3	2.31	0.43
1:X1:12:LEU:HD21	1:X1:44:THR:HG22	2.01	0.43
1:g1:85:TYR:CD1	1:g1:122:GLY:HA2	2.53	0.43
1:g1:131:PHE:HB3	1:g1:159:LYS:HE3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:303:TYR:O	3:AB:309:SER:HB3	2.19	0.43
3:A2:309:SER:HB3	3:A9:303:TYR:O	2.19	0.43
5:F2:28:TYR:N	3:AB:9:ASN:O	2.52	0.43
1:I3:31:LYS:CE	1:QL:314:GLY:HA3	2.49	0.43
1:I3:184:SER:OG	1:I3:185:GLU:N	2.50	0.43
1:K3:150:ASN:ND2	2:F8:1:MET:H3	2.17	0.43
1:K3:174:MET:HE3	1:K3:382:LYS:HB3	2.00	0.43
2:Z3:45:ILE:HG13	2:Z3:46:HIS:HB3	1.99	0.43
1:b3:237:ASP:HB2	1:b3:347:ILE:HG22	2.01	0.43
1:C4:12:LEU:HD21	1:C4:44:THR:HG22	2.01	0.43
1:C4:98:ASN:ND2	1:C4:99:MET:N	2.67	0.43
1:I4:12:LEU:HD21	1:I4:44:THR:HG22	2.01	0.43
1:Q4:12:LEU:HD21	1:Q4:44:THR:HG22	2.01	0.43
1:Q4:150:ASN:OD1	2:fR:2:TYR:CB	2.53	0.43
1:R4:71:ARG:HD3	2:U4:30:MET:HG2	1.99	0.43
1:T4:5:SER:HB2	1:AS:5:SER:OG	2.19	0.43
1:T4:44:THR:OG1	1:T4:45:MET:N	2.51	0.43
1:T4:58:ILE:HD11	1:AS:55:PHE:CD2	2.54	0.43
1:T4:139:ARG:CB	1:BS:81:PHE:CE2	2.84	0.43
1:Y4:85:TYR:CD1	1:Y4:122:GLY:HA2	2.53	0.43
1:Y4:131:PHE:HB3	1:Y4:159:LYS:HE3	2.01	0.43
1:Y4:144:THR:HG22	1:Y4:146:ALA:H	1.84	0.43
1:Y4:239:VAL:HG21	1:Y4:347:ILE:HD13	2.00	0.43
1:g4:85:TYR:CD1	1:g4:122:GLY:HA2	2.53	0.43
1:g4:239:VAL:HG21	1:g4:347:ILE:HD13	2.00	0.43
2:j4:6:ASN:N	1:CD:153:LEU:HD12	2.34	0.43
4:B5:4:TYR:HD2	5:EI:44:SER:OG	2.01	0.43
1:C6:31:LYS:CE	1:gG:314:GLY:HA3	2.49	0.43
1:A6:144:THR:HG22	1:A6:146:ALA:H	1.84	0.43
2:F6:1:MET:H3	1:dQ:150:ASN:ND2	2.17	0.43
1:I6:12:LEU:HD21	1:I6:44:THR:HG22	2.01	0.43
1:I6:209:GLN:HE22	1:I6:235:LEU:HB2	1.84	0.43
2:N6:1:MET:H2	1:K8:150:ASN:HD21	1.65	0.43
1:Q6:12:LEU:HD21	1:Q6:44:THR:HG22	2.01	0.43
1:Q6:27:HIS:CG	1:LJ:312:PRO:CD	2.98	0.43
1:Q6:53:TYR:CD2	1:LJ:223:GLY:CA	3.00	0.43
1:Q6:58:ILE:HD13	1:CJ:55:PHE:HD2	1.78	0.43
1:R6:144:THR:HG22	1:R6:146:ALA:H	1.84	0.43
1:S6:29:TYR:HB3	1:AS:315:ALA:HB1	2.00	0.43
1:Y6:63:LEU:HD13	1:LE:89:TYR:CZ	2.51	0.43
1:Z6:64:ILE:HD11	1:a6:88:GLU:CD	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C7:12:LEU:HD21	1:C7:44:THR:HG22	2.01	0.43
1:C7:49:PHE:CE2	1:LK:111:ARG:NH1	2.87	0.43
1:D7:172:ARG:NH1	1:D7:277:GLY:H	2.16	0.43
1:I7:63:LEU:HD13	1:cQ:89:TYR:HE2	1.71	0.43
1:J7:85:TYR:CD1	1:J7:122:GLY:HA2	2.53	0.43
1:R7:85:TYR:HH	1:QQ:46:PHE:HD1	1.67	0.43
1:S7:174:MET:HE3	1:S7:382:LYS:HB3	2.00	0.43
2:U7:45:ILE:CG1	2:U7:46:HIS:H	2.23	0.43
1:Y7:132:THR:HG21	1:JR:111:ARG:HG2	1.23	0.43
1:Z7:73:ASN:HB2	1:Z7:354:ARG:HH22	1.82	0.43
1:h7:71:ARG:H	2:l7:26:LEU:HD12	1.83	0.43
1:h7:131:PHE:HB3	1:h7:159:LYS:HE3	2.01	0.43
1:h7:144:THR:HG22	1:h7:146:ALA:H	1.84	0.43
1:i7:242:THR:HG21	1:i7:246:LEU:HD12	2.00	0.43
1:B8:242:THR:HG21	1:B8:246:LEU:HD12	2.00	0.43
1:J8:64:ILE:HD11	1:K8:88:GLU:CD	2.44	0.43
1:J8:188:VAL:HG12	1:J8:392:LEU:HD23	2.00	0.43
1:R8:55:PHE:O	1:R8:57:LYS:NZ	2.46	0.43
1:Z8:85:TYR:CD1	1:Z8:122:GLY:HA2	2.53	0.43
1:Z8:239:VAL:HG21	1:Z8:347:ILE:HD13	2.00	0.43
1:a8:133:LEU:HD21	1:a8:155:VAL:HG11	2.00	0.43
1:b8:264:ILE:H	1:b8:264:ILE:HG13	1.66	0.43
1:g8:12:LEU:HD21	1:g8:44:THR:HG22	2.01	0.43
1:g8:98:ASN:ND2	1:g8:99:MET:N	2.67	0.43
1:g8:310:THR:HG21	1:DD:27:HIS:CE1	2.36	0.43
1:h8:71:ARG:H	2:l8:26:LEU:HD12	1.83	0.43
3:A9:208:LYS:HE2	4:BC:251:TRP:CB	2.48	0.43
5:EA:140:ASP:N	5:CA:139:LYS:CA	2.81	0.43
5:NA:320:ILE:O	5:NA:321:ASP:HB2	2.17	0.43
3:AB:151:ASN:CB	1:AD:145:LEU:HD11	2.48	0.43
5:FB:46:TYR:HB3	5:FF:31:PHE:CZ	2.52	0.43
5:EC:140:ASP:N	5:CC:139:LYS:CA	2.81	0.43
1:AD:81:PHE:HD2	1:KK:139:ARG:NH1	1.72	0.43
1:AD:222:SER:HG	1:KK:39:TRP:C	2.12	0.43
1:AD:297:LEU:CD1	1:KK:29:TYR:CZ	2.81	0.43
1:BD:335:LYS:NZ	1:BD:336:PRO:O	2.39	0.43
1:DD:222:SER:CB	1:KS:38:LYS:C	2.81	0.43
1:DD:312:PRO:HG3	1:KS:27:HIS:CD2	2.54	0.43
1:KD:50:VAL:HG21	1:KS:137:ASP:OD2	2.02	0.43
1:LD:21:ALA:HA	1:DK:123:ASN:HD21	1.83	0.43
1:LD:111:ARG:HD3	1:LD:113:TYR:HE2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:55:PHE:O	1:BE:57:LYS:NZ	2.46	0.43
1:BE:64:ILE:HD11	1:CE:88:GLU:CD	2.44	0.43
1:TE:71:ARG:H	2:XE:26:LEU:HD12	1.83	0.43
1:TE:71:ARG:HD3	2:XE:30:MET:HG2	1.99	0.43
1:TE:131:PHE:HB3	1:TE:159:LYS:HE3	2.01	0.43
1:TE:144:THR:HG22	1:TE:146:ALA:H	1.84	0.43
1:cE:19:LYS:NZ	1:cE:37:ASP:OD1	2.37	0.43
5:FF:38:TYR:CE2	4:BM:6:MET:HE3	2.45	0.43
1:AG:213:ALA:HB1	1:AG:228:GLN:HB2	2.00	0.43
1:IG:12:LEU:HD21	1:IG:44:THR:HG22	2.01	0.43
1:KG:174:MET:HE3	1:KG:382:LYS:HB3	2.00	0.43
1:LG:264:ILE:H	1:LG:264:ILE:HG13	1.66	0.43
1:LG:325:LYS:NZ	1:LG:325:LYS:CB	2.73	0.43
1:QG:12:LEU:HD21	1:QG:44:THR:HG22	2.01	0.43
1:QG:184:SER:OG	1:QG:185:GLU:N	2.50	0.43
1:RG:71:ARG:HD3	2:VG:30:MET:HG2	1.99	0.43
1:ZG:85:TYR:CD1	1:ZG:122:GLY:HA2	2.53	0.43
1:ZG:144:THR:HG22	1:ZG:146:ALA:H	1.84	0.43
1:bG:108:MET:CE	1:BK:367:PRO:HD2	2.47	0.43
1:gG:209:GLN:HE22	1:gG:235:LEU:HB2	1.84	0.43
1:hG:213:ALA:HB1	1:hG:228:GLN:HB2	2.00	0.43
1:iG:242:THR:HG21	1:iG:246:LEU:HD12	2.00	0.43
3:AH:25:ASN:ND2	5:DN:34:ASP:N	2.67	0.43
5:EI:20:GLU:HB3	5:EO:55:LEU:HD21	2.01	0.43
5:FI:51:ARG:HG2	4:BN:32:PHE:CE1	2.54	0.43
1:AJ:143:GLN:HA	3:AN:29:ARG:HH11	1.84	0.43
1:AJ:163:ILE:HG22	1:KJ:96:PRO:HG3	1.99	0.43
1:AJ:223:GLY:N	1:JS:53:TYR:CE1	2.83	0.43
1:BJ:133:LEU:HG	2:iL:11:MET:CG	2.49	0.43
1:CJ:179:SER:HA	1:CJ:183:LEU:HD21	2.00	0.43
1:CJ:254:LYS:HE2	1:CJ:254:LYS:HB2	1.75	0.43
1:KJ:19:LYS:HE2	1:LP:45:MET:HE3	2.00	0.43
1:KJ:101:LEU:N	1:JS:25:PHE:O	2.49	0.43
1:KJ:128:LYS:HZ1	1:KJ:375:TRP:CD1	2.36	0.43
1:LJ:33:TRP:CZ2	1:CS:174:MET:HA	2.50	0.43
1:LJ:344:ILE:HD11	1:LJ:391:ILE:HB	2.00	0.43
2:MJ:2:TYR:HD2	1:JS:153:LEU:HD11	1.60	0.43
2:MJ:6:ASN:HA	1:JS:153:LEU:HD23	2.00	0.43
2:NJ:45:ILE:HD12	2:NJ:45:ILE:HG23	1.84	0.43
1:AK:316:VAL:HG13	1:KP:31:LYS:HA	1.99	0.43
1:LK:22:LEU:CD2	1:KP:48:THR:CA	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:RL:115:ARG:NH2	1:QR:300:TYR:CA	2.75	0.43
1:YL:98:ASN:ND2	1:YL:99:MET:N	2.67	0.43
1:aL:242:THR:HG21	1:aL:246:LEU:HD12	2.00	0.43
1:gL:164:ASN:HD21	2:iL:25:GLU:H	1.66	0.43
5:DM:34:ASP:N	3:AO:25:ASN:ND2	2.67	0.43
5:NM:231:ASN:CA	5:CO:265:LEU:CD1	2.74	0.43
1:AP:46:PHE:CB	1:DP:106:GLU:CB	2.96	0.43
1:AP:218:VAL:HG21	1:AP:229:TYR:HB3	2.01	0.43
1:JQ:55:PHE:O	1:JQ:57:LYS:NZ	2.46	0.43
1:JQ:152:ALA:O	2:OQ:8:ARG:NH1	2.51	0.43
1:JQ:168:GLU:OE2	1:KQ:211:ASN:ND2	2.38	0.43
1:JR:71:ARG:HD3	2:NR:30:MET:HG2	1.99	0.43
1:QR:12:LEU:HD21	1:QR:44:THR:HG22	2.01	0.43
1:RR:131:PHE:HB3	1:RR:159:LYS:HE3	2.01	0.43
1:RR:144:THR:HG22	1:RR:146:ALA:H	1.84	0.43
1:gR:12:LEU:HD21	1:gR:44:THR:HG22	2.01	0.43
1:jR:237:ASP:HB2	1:jR:347:ILE:HG22	2.01	0.43
1:BS:131:PHE:HB3	1:BS:159:LYS:HE2	2.00	0.43
1:BS:197:LEU:HA	1:BS:200:LYS:HB2	2.01	0.43
1:IS:49:PHE:O	1:IS:51:ASN:N	2.50	0.43
1:C1:14:VAL:HG21	1:dQ:14:VAL:HG23	1.96	0.43
1:C1:31:LYS:CE	1:bQ:314:GLY:HA3	2.49	0.43
1:C1:370:ASP:CG	1:bQ:361:LYS:HZ2	2.27	0.43
1:A1:73:ASN:HB2	1:A1:354:ARG:HH22	1.82	0.43
1:A1:144:THR:HG22	1:A1:146:ALA:H	1.84	0.43
1:B1:22:LEU:CD1	1:Y8:49:PHE:HD1	2.32	0.43
1:B1:50:VAL:HG23	1:Y8:137:ASP:HB3	2.01	0.43
1:B1:305:SER:OG	1:a4:28:ASP:OD2	2.34	0.43
1:I1:208:LEU:HD11	1:I1:391:ILE:HD13	1.45	0.43
1:I1:302:ASP:CB	1:Y6:29:TYR:OH	2.67	0.43
1:J1:203:GLU:HB3	1:IG:248:SER:OG	2.17	0.43
1:J1:239:VAL:HG21	1:J1:347:ILE:HD13	2.00	0.43
1:Q1:302:ASP:CB	1:Q8:29:TYR:OH	2.67	0.43
1:R1:119:LYS:CE	1:CJ:38:LYS:CD	2.96	0.43
1:X1:137:ASP:HB3	1:K8:50:VAL:HG23	2.01	0.43
1:Y1:55:PHE:HA	1:Y1:56:PRO:HD3	1.90	0.43
1:f1:137:ASP:HB3	1:B3:50:VAL:HG23	2.01	0.43
5:D2:34:ASP:N	3:AB:25:ASN:ND2	2.67	0.43
5:F2:29:THR:HA	3:AB:9:ASN:N	2.33	0.43
1:A3:152:ALA:O	2:G3:8:ARG:NH1	2.51	0.43
1:I3:29:TYR:OH	1:QL:302:ASP:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J3:239:VAL:HG21	1:J3:347:ILE:HD13	2.00	0.43
1:Q3:98:ASN:ND2	1:Q3:99:MET:N	2.67	0.43
1:T3:98:ASN:O	1:dE:304:GLN:NE2	2.48	0.43
2:a3:11:MET:HB2	1:BK:372:VAL:CB	2.45	0.43
1:I4:289:GLN:N	1:I4:326:GLU:OE2	2.46	0.43
1:K4:133:LEU:HD21	1:K4:155:VAL:HG11	2.00	0.43
1:L4:325:LYS:NZ	1:L4:325:LYS:CB	2.73	0.43
2:N4:22:LYS:HD2	2:N4:22:LYS:HA	1.73	0.43
1:Q4:184:SER:OG	1:Q4:185:GLU:N	2.50	0.43
1:R4:71:ARG:H	2:U4:26:LEU:HD12	1.83	0.43
1:R4:134:ASN:O	2:V4:15:TYR:OH	2.31	0.43
1:R4:213:ALA:HB1	1:R4:228:GLN:HB2	2.00	0.43
1:X4:209:GLN:HE22	1:X4:235:LEU:HB2	1.84	0.43
1:Z4:133:LEU:HD21	1:Z4:155:VAL:HG11	2.00	0.43
1:f4:49:PHE:HD1	1:B6:22:LEU:CD1	2.32	0.43
1:f4:63:LEU:HD13	1:ZG:89:TYR:CZ	2.51	0.43
1:f4:137:ASP:HB3	1:B6:50:VAL:HG23	2.01	0.43
1:g4:110:LYS:NZ	1:AD:106:GLU:OE1	2.49	0.43
1:g4:188:VAL:HG12	1:g4:392:LEU:HD23	2.00	0.43
1:h4:133:LEU:HD21	1:h4:155:VAL:HG11	2.00	0.43
1:i4:5:SER:HB2	1:BD:5:SER:OG	2.19	0.43
1:i4:47:GLU:CG	1:BD:22:LEU:HD22	2.49	0.43
5:E5:140:ASP:O	5:C5:140:ASP:CA	2.65	0.43
5:C5:433:HIS:HD2	5:N5:158:GLU:OE2	2.02	0.43
1:C6:370:ASP:CG	1:gG:361:LYS:HZ2	2.27	0.43
1:B6:305:SER:OG	1:bG:28:ASP:OD2	2.34	0.43
2:E6:45:ILE:CG1	2:E6:46:HIS:H	2.23	0.43
1:L6:237:ASP:HB2	1:L6:347:ILE:HG22	2.01	0.43
1:Q6:177:ASP:OD2	1:CS:33:TRP:CZ2	2.72	0.43
1:Q6:209:GLN:HE22	1:Q6:235:LEU:HB2	1.84	0.43
1:R6:131:PHE:HB3	1:R6:159:LYS:HE3	2.01	0.43
1:S6:242:THR:HG21	1:S6:246:LEU:HD12	2.00	0.43
1:Z6:131:PHE:HB3	1:Z6:159:LYS:HE3	2.01	0.43
1:b6:237:ASP:HB2	1:b6:347:ILE:HG22	2.01	0.43
1:C7:57:LYS:HG3	1:CK:143:GLN:HE22	1.65	0.43
1:J7:71:ARG:H	2:N7:26:LEU:HD12	1.83	0.43
1:J7:144:THR:HG22	1:J7:146:ALA:H	1.84	0.43
1:L7:371:GLU:OE1	1:b8:113:TYR:OH	2.32	0.43
1:Q7:31:LYS:CE	1:YL:314:GLY:HA3	2.49	0.43
1:R7:144:THR:HG22	1:R7:146:ALA:H	1.84	0.43
1:T7:325:LYS:NZ	1:T7:325:LYS:CB	2.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y7:321:VAL:HG22	1:Y7:327:PHE:CE2	2.51	0.43
2:c7:45:ILE:HG13	2:c7:46:HIS:H	1.66	0.43
1:g7:98:ASN:ND2	1:g7:99:MET:N	2.67	0.43
1:h7:264:ILE:H	1:h7:264:ILE:HG13	1.76	0.43
1:C8:314:GLY:HA3	1:AE:31:LYS:CE	2.49	0.43
1:B8:137:ASP:OD1	1:AE:48:THR:HG22	2.17	0.43
1:Q8:302:ASP:CB	1:IG:29:TYR:OH	2.67	0.43
1:R8:239:VAL:HG21	1:R8:347:ILE:HD13	2.00	0.43
1:T8:159:LYS:NZ	1:TL:94:THR:OG1	2.34	0.43
1:T8:164:ASN:HD21	2:W8:25:GLU:H	1.66	0.43
1:Y8:81:PHE:HE2	1:bQ:139:ARG:HD2	1.63	0.43
1:Z8:144:THR:HG22	1:Z8:146:ALA:H	1.84	0.43
1:a8:174:MET:HE3	1:a8:382:LYS:HB3	2.00	0.43
1:i8:30:SER:CB	1:CD:98:ASN:ND2	2.79	0.43
5:DA:9:LYS:HD3	5:DA:9:LYS:HA	1.70	0.43
3:AB:115:ILE:HG21	3:AB:121:ILE:HG22	2.00	0.43
5:DB:34:ASP:N	3:AF:25:ASN:ND2	2.67	0.43
5:FB:38:TYR:CE2	4:BF:6:MET:HE3	2.45	0.43
3:AC:115:ILE:HG21	3:AC:121:ILE:HG22	2.00	0.43
4:BC:184:ASN:CB	4:BH:154:GLY:HA3	2.49	0.43
4:BC:189:ASN:O	4:BH:149:LEU:HA	2.19	0.43
1:BD:208:LEU:HD21	1:BD:344:ILE:HD13	2.01	0.43
1:DD:279:VAL:HG12	1:DD:318:THR:HA	2.00	0.43
2:GD:39:ASP:O	2:GD:40:SER:OG	2.31	0.43
2:HD:34:THR:HB	1:LD:209:GLN:HB3	2.00	0.43
2:HD:40:SER:H	1:LD:263:GLY:C	2.25	0.43
1:KD:29:TYR:CZ	1:IS:297:LEU:CD1	2.81	0.43
1:LD:58:ILE:CD1	1:KK:57:LYS:HD2	2.47	0.43
1:LD:314:GLY:CA	1:YG:31:LYS:CE	2.97	0.43
1:BE:118:THR:OG1	1:CP:53:TYR:HB3	2.19	0.43
1:BE:119:LYS:CE	1:CP:38:LYS:CD	2.96	0.43
1:BE:131:PHE:HB3	1:BE:159:LYS:HE3	2.01	0.43
1:FE:153:LEU:HB3	2:HP:2:TYR:CE2	2.54	0.43
1:FE:237:ASP:HB2	1:FE:347:ILE:HG22	2.01	0.43
1:KE:209:GLN:HE22	1:KE:235:LEU:HB2	1.84	0.43
1:SE:98:ASN:ND2	1:SE:99:MET:N	2.67	0.43
1:TE:362:PRO:HA	1:TE:363:PRO:HD3	1.83	0.43
1:VE:44:THR:OG1	1:VE:45:MET:N	2.51	0.43
1:aE:204:ALA:C	1:aE:205:ILE:O	2.60	0.43
1:aE:360:LEU:HD13	1:aE:360:LEU:HA	1.88	0.43
1:cE:22:LEU:CD1	1:CG:49:PHE:HD1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BF:53:ILE:HD12	4:BF:53:ILE:HA	1.85	0.43
1:DG:351:LYS:NZ	1:TG:60:GLU:OE2	2.43	0.43
1:RG:205:ILE:HD11	1:RG:240:ILE:HD11	2.01	0.43
1:gG:98:ASN:ND2	1:gG:99:MET:N	2.67	0.43
1:hG:89:TYR:HE2	1:CL:63:LEU:HD13	1.71	0.43
1:hG:188:VAL:HG12	1:hG:392:LEU:HD23	2.00	0.43
5:NH:320:ILE:O	5:NH:321:ASP:HB2	2.17	0.43
3:AI:25:ASN:ND2	5:DO:34:ASP:N	2.67	0.43
4:BI:6:MET:HE3	5:FO:38:TYR:CE2	2.45	0.43
4:BI:32:PHE:CE1	5:FM:51:ARG:HG2	2.54	0.43
5:OI:271:GLN:O	5:OI:274:LEU:HD12	2.17	0.43
1:BJ:189:ARG:HB2	1:BJ:393:ILE:HG12	1.99	0.43
1:KJ:31:LYS:HA	1:AP:316:VAL:HG13	1.99	0.43
1:LJ:31:LYS:HG2	1:CS:315:ALA:HA	1.20	0.43
1:LJ:34:THR:O	1:CS:382:LYS:HD2	2.17	0.43
1:LJ:45:MET:HE3	1:JS:19:LYS:HE2	2.00	0.43
1:LJ:268:ASP:OD1	1:LJ:268:ASP:N	2.51	0.43
1:AK:123:ASN:HD21	1:KP:21:ALA:HB2	0.59	0.43
1:BK:22:LEU:CD2	1:jR:47:GLU:CD	2.91	0.43
1:LK:58:ILE:CD1	1:KP:57:LYS:HD2	2.48	0.43
1:LK:108:MET:SD	1:jR:366:ASN:CA	3.02	0.43
1:LK:297:LEU:HB3	1:LK:302:ASP:HB3	2.01	0.43
1:CL:302:ASP:CB	1:YR:29:TYR:OH	2.67	0.43
1:AL:144:THR:HG22	1:AL:146:ALA:H	1.84	0.43
1:IL:137:ASP:HB3	1:KQ:50:VAL:HG23	2.01	0.43
1:JL:85:TYR:CD1	1:JL:122:GLY:HA2	2.53	0.43
1:YL:12:LEU:HD21	1:YL:44:THR:HG22	2.01	0.43
1:bL:172:ARG:NH1	1:bL:277:GLY:H	2.16	0.43
1:gL:325:LYS:NZ	1:gL:325:LYS:CB	2.73	0.43
5:NM:230:SER:C	5:CO:266:THR:CB	2.89	0.43
5:DN:9:LYS:HA	5:DN:9:LYS:HD3	1.70	0.43
5:CO:158:GLU:OE2	5:OO:433:HIS:HD2	2.02	0.43
1:BP:260:GLN:HG2	1:DP:261:ILE:HG21	2.00	0.43
1:CP:240:ILE:HB	1:CP:344:ILE:HG22	1.99	0.43
1:DP:216:ASN:HD22	1:DP:229:TYR:HD2	1.67	0.43
1:RQ:213:ALA:HB1	1:RQ:228:GLN:HB2	2.00	0.43
1:bQ:98:ASN:ND2	1:bQ:99:MET:N	2.67	0.43
1:cQ:144:THR:HG22	1:cQ:146:ALA:H	1.84	0.43
1:cQ:188:VAL:HG12	1:cQ:392:LEU:HD23	2.00	0.43
1:dQ:242:THR:HG21	1:dQ:246:LEU:HD12	2.00	0.43
1:DR:237:ASP:HB2	1:DR:347:ILE:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QR:209:GLN:HE22	1:QR:235:LEU:HB2	1.84	0.43
1:bR:237:ASP:HB2	1:bR:347:ILE:HG22	2.01	0.43
1:gR:209:GLN:HE22	1:gR:235:LEU:HB2	1.84	0.43
2:GS:40:SER:O	1:KS:265:ASP:N	2.52	0.43
1:JS:326:GLU:OE1	1:JS:326:GLU:HA	2.19	0.43
2:LS:11:MET:HA	2:LS:14:SER:HB2	2.00	0.43
1:C1:48:THR:HG22	1:dQ:137:ASP:OD1	2.17	0.43
1:A1:188:VAL:HG12	1:A1:392:LEU:HD23	2.00	0.43
1:I1:209:GLN:HE22	1:I1:235:LEU:HB2	1.84	0.43
1:I1:314:GLY:HA3	1:Y6:31:LYS:CE	2.49	0.43
1:K1:133:LEU:HD21	1:K1:155:VAL:HG11	2.00	0.43
1:K1:242:THR:HG21	1:K1:246:LEU:HD12	2.00	0.43
2:N1:1:MET:H3	1:S8:150:ASN:ND2	2.17	0.43
1:R1:98:ASN:HD22	1:CS:30:SER:CB	2.31	0.43
1:R1:131:PHE:HB3	1:R1:159:LYS:HE3	2.01	0.43
1:T1:5:SER:HB2	1:BJ:5:SER:OG	2.19	0.43
1:T1:58:ILE:HD11	1:BJ:55:PHE:CD2	2.54	0.43
1:T1:325:LYS:HB2	1:T1:325:LYS:HZ3	1.80	0.43
1:Z1:50:VAL:HG23	1:IR:137:ASP:HB3	2.01	0.43
1:f1:360:LEU:HD21	2:HQ:22:LYS:HG2	1.95	0.43
1:g1:115:ARG:NH2	1:CQ:300:TYR:CA	2.75	0.43
4:B2:149:LEU:HA	4:BB:189:ASN:O	2.19	0.43
4:B2:250:ILE:CD1	3:AF:209:MET:HA	2.34	0.43
5:E2:140:ASP:N	5:C2:139:LYS:HA	2.33	0.43
1:C3:63:LEU:HD13	1:h7:89:TYR:HE2	1.71	0.43
1:A3:71:ARG:H	2:F3:26:LEU:HD12	1.83	0.43
1:A3:239:VAL:HG21	1:A3:347:ILE:HD13	2.00	0.43
1:I3:302:ASP:CB	1:I4:29:TYR:OH	2.67	0.43
1:I3:314:GLY:HA3	1:I4:31:LYS:CE	2.49	0.43
1:J3:101:LEU:HD21	1:IG:136:ASN:HD21	1.82	0.43
1:L3:164:ASN:HD21	2:O3:25:GLU:H	1.66	0.43
1:L3:325:LYS:NZ	1:L3:325:LYS:CB	2.73	0.43
1:C4:29:TYR:OH	1:CG:302:ASP:CB	2.67	0.43
1:B4:242:THR:HG21	1:B4:246:LEU:HD12	2.00	0.43
1:I4:321:VAL:HG22	1:I4:327:PHE:CE2	2.51	0.43
1:R4:119:LYS:CE	1:BS:38:LYS:CD	2.96	0.43
1:R4:205:ILE:HD11	1:R4:240:ILE:HD11	2.01	0.43
1:X4:63:LEU:HD13	1:Z8:89:TYR:CZ	2.51	0.43
1:f4:302:ASP:CB	1:gG:29:TYR:OH	2.67	0.43
1:g4:121:TYR:HA	1:CD:36:GLY:HA2	2.01	0.43
1:g4:144:THR:HG22	1:g4:146:ALA:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h4:14:VAL:HG23	1:gG:14:VAL:HG21	1.96	0.43
1:h4:50:VAL:HG23	1:gG:137:ASP:HB3	2.01	0.43
1:h4:242:THR:HG21	1:h4:246:LEU:HD12	2.00	0.43
3:A5:9:ASN:N	5:FI:29:THR:HA	2.33	0.43
1:A6:188:VAL:HG12	1:A6:392:LEU:HD23	2.00	0.43
1:B6:174:MET:HE3	1:B6:382:LYS:HB3	2.00	0.43
1:J6:71:ARG:H	2:N6:26:LEU:HD12	1.83	0.43
1:R6:205:ILE:HD11	1:R6:240:ILE:HD11	2.01	0.43
1:R6:239:VAL:HG21	1:R6:347:ILE:HD13	2.00	0.43
1:S6:140:PHE:CD1	1:AS:84:GLN:HB3	2.53	0.43
1:Y6:12:LEU:HD21	1:Y6:44:THR:HG22	2.01	0.43
1:a6:362:PRO:HA	1:a6:363:PRO:HD3	1.79	0.43
1:g6:177:ASP:OD2	1:DJ:33:TRP:CZ2	2.72	0.43
1:g6:209:GLN:HE22	1:g6:235:LEU:HB2	1.84	0.43
1:h6:73:ASN:HB2	1:h6:354:ARG:HH22	1.83	0.43
1:h6:205:ILE:HD11	1:h6:240:ILE:HD11	2.01	0.43
1:C7:31:LYS:CE	1:LK:314:GLY:CA	2.97	0.43
1:B7:57:LYS:HA	1:DP:143:GLN:HE21	1.82	0.43
1:I7:98:ASN:ND2	1:I7:99:MET:N	2.67	0.43
1:I7:302:ASP:CB	1:CQ:29:TYR:OH	2.67	0.43
1:Q7:209:GLN:HE22	1:Q7:235:LEU:HB2	1.84	0.43
1:Q7:314:GLY:HA3	1:QR:31:LYS:CE	2.49	0.43
1:R7:71:ARG:H	2:V7:26:LEU:HD12	1.83	0.43
1:R7:131:PHE:HB3	1:R7:159:LYS:HE3	2.01	0.43
1:S7:46:PHE:HE1	1:QR:55:PHE:HE1	1.65	0.43
1:h7:213:ALA:HB1	1:h7:228:GLN:HB2	2.00	0.43
1:i7:133:LEU:HD21	1:i7:155:VAL:HG11	2.00	0.43
1:j7:44:THR:OG1	1:j7:45:MET:N	2.51	0.43
1:C8:302:ASP:CB	1:AE:29:TYR:OH	2.67	0.43
1:C8:321:VAL:HG22	1:C8:327:PHE:CE2	2.51	0.43
1:A8:64:ILE:HD11	1:B8:88:GLU:CD	2.44	0.43
1:A8:73:ASN:HB2	1:A8:354:ARG:HH22	1.83	0.43
1:S8:174:MET:HE3	1:S8:382:LYS:HB3	2.00	0.43
1:Z8:188:VAL:HG12	1:Z8:392:LEU:HD23	2.00	0.43
1:a8:242:THR:HG21	1:a8:246:LEU:HD12	2.00	0.43
4:B9:141:THR:HG1	4:B9:196:SER:HG	1.64	0.43
4:BA:189:ASN:O	4:BC:149:LEU:HA	2.19	0.43
5:EA:20:GLU:HB3	5:EC:55:LEU:HD21	2.01	0.43
1:AD:46:PHE:CB	1:DD:106:GLU:CB	2.96	0.43
1:CD:158:LYS:HD3	1:LD:91:ILE:HB	2.00	0.43
1:CD:172:ARG:NH1	1:CD:275:ASP:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:33:TRP:HH2	1:IS:173:ALA:HB1	1.80	0.43
1:KD:80:ASP:CB	3:AF:65:ASN:HB3	2.31	0.43
1:KD:143:GLN:O	1:IS:82:ILE:CG2	2.66	0.43
1:KD:326:GLU:OE1	1:KD:326:GLU:HA	2.19	0.43
2:EE:45:ILE:HG13	2:EE:46:HIS:H	1.66	0.43
2:GE:2:TYR:CE2	1:BP:157:LYS:CE	2.90	0.43
1:AE:12:LEU:HD21	1:AE:44:THR:HG22	2.01	0.43
1:KE:302:ASP:CB	1:QQ:29:TYR:OH	2.67	0.43
1:LE:205:ILE:HD11	1:LE:240:ILE:HD11	2.01	0.43
1:TE:213:ALA:HB1	1:TE:228:GLN:HB2	2.00	0.43
1:VE:264:ILE:H	1:VE:264:ILE:HG13	1.66	0.43
1:aE:314:GLY:HA3	1:CG:31:LYS:CE	2.49	0.43
1:bE:131:PHE:HB3	1:bE:159:LYS:HE3	2.01	0.43
1:cE:242:THR:HG21	1:cE:246:LEU:HD12	2.00	0.43
5:FF:29:THR:HA	3:AM:9:ASN:N	2.33	0.43
1:AG:239:VAL:HG21	1:AG:347:ILE:HD13	2.00	0.43
2:MG:45:ILE:HG13	2:MG:46:HIS:HB3	1.99	0.43
1:RG:71:ARG:H	2:VG:26:LEU:HD12	1.83	0.43
1:YG:209:GLN:HE22	1:YG:235:LEU:HB2	1.84	0.43
1:aG:30:SER:CB	1:CK:98:ASN:ND2	2.79	0.43
1:gG:12:LEU:HD21	1:gG:44:THR:HG22	2.01	0.43
1:hG:144:THR:HG22	1:hG:146:ALA:H	1.84	0.43
5:CH:433:HIS:HD2	5:NH:158:GLU:OE2	2.02	0.43
1:AJ:49:PHE:O	1:AJ:51:ASN:N	2.50	0.43
1:AJ:82:ILE:CD1	1:JS:144:THR:N	2.74	0.43
1:CJ:158:LYS:HD3	1:LJ:91:ILE:HB	2.00	0.43
1:CJ:172:ARG:NH1	1:CJ:275:ASP:O	2.51	0.43
1:DJ:55:PHE:O	1:DJ:57:LYS:NZ	2.40	0.43
1:KJ:32:SER:HB3	1:AP:316:VAL:HG21	2.01	0.43
1:LJ:111:ARG:HD3	1:LJ:113:TYR:HE2	1.83	0.43
1:LJ:146:ALA:O	1:LJ:149:THR:OG1	2.29	0.43
1:CK:36:GLY:HA2	1:hR:121:TYR:HA	2.01	0.43
1:CK:81:PHE:CE2	1:jR:139:ARG:CB	2.84	0.43
1:DK:64:ILE:HG22	2:FK:53:PHE:HB2	2.01	0.43
2:HK:34:THR:HB	1:LK:209:GLN:HB3	2.00	0.43
1:KK:237:ASP:OD1	1:KK:237:ASP:N	2.48	0.43
2:MK:6:ASN:HA	1:KP:153:LEU:HD23	2.00	0.43
1:CL:98:ASN:ND2	1:CL:99:MET:N	2.67	0.43
1:CL:283:THR:N	1:CL:330:ASN:O	2.44	0.43
2:ML:45:ILE:CG1	2:ML:46:HIS:H	2.23	0.43
1:RL:144:THR:HG22	1:RL:146:ALA:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CO:433:HIS:HD2	5:NO:158:GLU:OE2	2.02	0.43
1:DP:64:ILE:HG22	2:FP:53:PHE:HB2	2.01	0.43
1:DQ:237:ASP:HB2	1:DQ:347:ILE:HG22	2.01	0.43
1:IQ:98:ASN:ND2	1:IQ:99:MET:N	2.67	0.43
1:JQ:239:VAL:HG21	1:JQ:347:ILE:HD13	2.00	0.43
1:RQ:144:THR:HG22	1:RQ:146:ALA:H	1.84	0.43
1:RQ:205:ILE:HD11	1:RQ:240:ILE:HD11	2.01	0.43
1:bQ:12:LEU:HD21	1:bQ:44:THR:HG22	2.01	0.43
1:cQ:213:ALA:HB1	1:cQ:228:GLN:HB2	2.00	0.43
1:JR:64:ILE:HD11	1:KR:88:GLU:CD	2.44	0.43
1:RR:205:ILE:HD11	1:RR:240:ILE:HD11	2.01	0.43
1:RR:239:VAL:HG21	1:RR:347:ILE:HD13	2.00	0.43
1:SR:242:THR:HG21	1:SR:246:LEU:HD12	2.00	0.43
1:hR:64:ILE:HD11	1:iR:88:GLU:CD	2.44	0.43
1:CS:133:LEU:HD13	1:CS:133:LEU:HA	1.92	0.43
1:C1:137:ASP:HB3	1:dQ:50:VAL:HG23	2.01	0.42
1:D1:44:THR:OG1	1:D1:45:MET:N	2.51	0.42
1:J1:64:ILE:HD11	1:K1:88:GLU:CD	2.44	0.42
1:K1:137:ASP:OD1	1:Y6:48:THR:HG22	2.17	0.42
1:L1:44:THR:OG1	1:L1:45:MET:N	2.51	0.42
1:R1:82:ILE:HD12	1:CJ:139:ARG:HA	2.01	0.42
1:R1:144:THR:HG22	1:R1:146:ALA:H	1.84	0.42
1:Y1:362:PRO:HA	1:Y1:363:PRO:HD3	1.84	0.42
2:c1:1:MET:N	1:aR:150:ASN:ND2	2.61	0.42
1:C3:98:ASN:ND2	1:C3:99:MET:N	2.67	0.42
1:C3:209:GLN:HE22	1:C3:235:LEU:HB2	1.84	0.42
1:I3:98:ASN:ND2	1:I3:99:MET:N	2.67	0.42
1:I3:137:ASP:HB3	1:SL:50:VAL:HG23	2.01	0.42
1:J3:133:LEU:HB2	2:O3:11:MET:HG2	2.00	0.42
1:Q3:29:TYR:OH	1:X4:302:ASP:CB	2.67	0.42
1:Q3:139:ARG:HD3	1:X4:81:PHE:HD2	1.64	0.42
1:R3:133:LEU:HB2	2:W3:11:MET:HG2	1.99	0.42
1:S3:50:VAL:HG23	1:CR:137:ASP:HB3	2.01	0.42
1:L4:264:ILE:H	1:L4:264:ILE:HG13	1.66	0.42
1:R4:110:LYS:NZ	1:IS:106:GLU:OE1	2.49	0.42
1:S4:242:THR:HG21	1:S4:246:LEU:HD12	2.00	0.42
1:T4:47:GLU:CD	1:AS:22:LEU:CD2	2.91	0.42
1:T4:47:GLU:CG	1:AS:22:LEU:HD22	2.49	0.42
1:T4:366:ASN:CA	1:KS:108:MET:SD	3.02	0.42
1:T4:372:VAL:HG11	2:GS:11:MET:HG3	1.13	0.42
1:Y4:89:TYR:CZ	1:Y8:63:LEU:HD13	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z4:39:TRP:O	1:J8:222:SER:OG	2.33	0.42
1:h4:174:MET:HE3	1:h4:382:LYS:HB3	2.00	0.42
1:i4:44:THR:OG1	1:i4:45:MET:N	2.51	0.42
1:i4:47:GLU:CD	1:BD:22:LEU:CD2	2.92	0.42
2:j4:11:MET:HE3	1:CD:372:VAL:CG1	2.25	0.42
5:F5:29:THR:HA	3:AN:9:ASN:N	2.33	0.42
5:N5:433:HIS:HD2	5:O5:158:GLU:OE2	2.02	0.42
1:C6:137:ASP:HB3	1:iG:50:VAL:HG23	2.01	0.42
1:J6:64:ILE:HD11	1:K6:88:GLU:CD	2.44	0.42
1:J6:239:VAL:HG21	1:J6:347:ILE:HD13	2.00	0.42
1:K6:22:LEU:CD1	1:CL:49:PHE:HD1	2.32	0.42
1:L6:159:LYS:NZ	1:L8:94:THR:OG1	2.34	0.42
2:M6:38:GLU:N	2:M6:38:GLU:CD	2.72	0.42
1:S6:145:LEU:N	1:AS:82:ILE:HD12	2.31	0.42
1:T6:44:THR:OG1	1:T6:45:MET:N	2.51	0.42
1:g6:49:PHE:CE2	1:LP:111:ARG:NH1	2.87	0.42
1:g6:98:ASN:ND2	1:g6:99:MET:N	2.67	0.42
1:h6:133:LEU:HB2	2:m6:11:MET:HG2	2.00	0.42
1:j6:44:THR:OG1	1:j6:45:MET:N	2.51	0.42
1:C7:82:ILE:HG12	1:DP:144:THR:C	2.44	0.42
1:I7:209:GLN:HE22	1:I7:235:LEU:HB2	1.84	0.42
1:I7:283:THR:N	1:I7:330:ASN:O	2.44	0.42
1:I7:360:LEU:HD22	2:iQ:22:LYS:HG2	1.91	0.42
1:J7:213:ALA:HB1	1:J7:228:GLN:HB2	2.00	0.42
1:Q7:184:SER:OG	1:Q7:185:GLU:N	2.50	0.42
1:S7:22:LEU:CD1	1:QR:49:PHE:HD1	2.32	0.42
1:Y7:302:ASP:CB	1:KE:29:TYR:OH	2.67	0.42
1:g7:31:LYS:CE	1:AE:314:GLY:HA3	2.49	0.42
1:C8:209:GLN:HE22	1:C8:235:LEU:HB2	1.84	0.42
1:B8:14:VAL:HG21	1:AE:14:VAL:HG23	1.94	0.42
1:B8:22:LEU:CD1	1:AE:49:PHE:HD1	2.32	0.42
1:Q8:314:GLY:HA3	1:IG:31:LYS:CE	2.49	0.42
1:R8:133:LEU:HB2	2:W8:11:MET:HG2	2.00	0.42
1:Y8:302:ASP:CB	1:bQ:29:TYR:OH	2.67	0.42
1:Z8:205:ILE:HD11	1:Z8:240:ILE:HD11	2.01	0.42
1:a8:50:VAL:HG23	1:bQ:137:ASP:HB3	2.01	0.42
1:g8:31:LYS:CE	1:KS:314:GLY:CA	2.97	0.42
1:g8:177:ASP:OD2	1:DD:33:TRP:CZ2	2.72	0.42
1:g8:177:ASP:OD2	1:DD:33:TRP:HZ2	2.01	0.42
1:i8:145:LEU:N	1:BD:82:ILE:HD12	2.31	0.42
1:i8:242:THR:HG21	1:i8:246:LEU:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B9:30:LEU:CG	5:EC:64:TRP:CE3	3.02	0.42
4:B9:188:ASP:OD1	4:B9:188:ASP:N	2.51	0.42
3:AA:11:GLU:O	5:EC:40:THR:OG1	2.30	0.42
3:AA:23:HIS:CE1	3:AC:159:HIS:CD2	3.06	0.42
4:BB:149:LEU:HA	4:BF:189:ASN:O	2.19	0.42
3:AC:271:ARG:HA	3:AC:274:THR:HG22	2.01	0.42
1:KD:19:LYS:HE2	1:KS:45:MET:HE3	2.00	0.42
1:KD:194:LYS:HE2	1:KD:194:LYS:HB3	1.82	0.42
1:FE:47:GLU:CD	1:BP:22:LEU:CD2	2.92	0.42
1:FE:172:ARG:NH1	1:FE:277:GLY:H	2.16	0.42
2:HE:11:MET:CB	1:CP:372:VAL:HG11	2.33	0.42
1:KE:98:ASN:ND2	1:KE:99:MET:N	2.67	0.42
1:KE:314:GLY:HA3	1:QQ:31:LYS:CE	2.49	0.42
1:LE:55:PHE:HA	1:LE:56:PRO:HD3	1.90	0.42
1:LE:73:ASN:HB2	1:LE:354:ARG:HH22	1.83	0.42
1:UE:133:LEU:HD21	1:UE:155:VAL:HG11	2.00	0.42
1:aE:209:GLN:HE22	1:aE:235:LEU:HB2	1.84	0.42
3:AF:271:ARG:HA	3:AF:274:THR:HG22	2.01	0.42
5:DF:51:ARG:CB	3:AO:6:ARG:CZ	2.93	0.42
5:FF:28:TYR:N	3:AM:9:ASN:O	2.52	0.42
1:CG:130:LYS:NZ	1:ZL:110:LYS:O	2.41	0.42
1:AG:131:PHE:HB3	1:AG:159:LYS:HE3	2.01	0.42
1:DG:265:ASP:N	1:DG:265:ASP:OD1	2.48	0.42
1:JG:71:ARG:H	2:NG:26:LEU:HD12	1.83	0.42
1:SG:242:THR:HG21	1:SG:246:LEU:HD12	2.00	0.42
2:UG:38:GLU:N	2:UG:38:GLU:CD	2.72	0.42
1:YG:177:ASP:OD2	1:DK:33:TRP:CZ2	2.72	0.42
1:ZG:71:ARG:H	2:dG:26:LEU:HD12	1.83	0.42
1:gG:132:THR:HG21	1:AL:111:ARG:HG2	1.23	0.42
3:AH:152:SER:N	1:AP:135:ASN:ND2	2.66	0.42
4:BH:184:ASN:CB	4:BN:154:GLY:HA3	2.49	0.42
4:BI:30:LEU:N	5:EM:64:TRP:HE1	2.00	0.42
5:OI:320:ILE:O	5:OI:321:ASP:HB2	2.17	0.42
1:DJ:312:PRO:HG3	1:LP:27:HIS:CD2	2.54	0.42
2:HJ:40:SER:O	1:LJ:265:ASP:N	2.52	0.42
1:AK:173:ALA:HB1	1:KP:33:TRP:HH2	1.81	0.42
1:CK:81:PHE:HZ	1:jR:136:ASN:HA	1.84	0.42
1:CK:133:LEU:HD23	2:kR:15:TYR:CE2	2.52	0.42
1:CK:314:GLY:O	1:jR:30:SER:C	2.60	0.42
2:FK:16:GLU:OE1	2:FK:16:GLU:N	2.51	0.42
2:HK:40:SER:O	1:LK:265:ASP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LK:27:HIS:CD2	1:DP:312:PRO:HG3	2.54	0.42
1:CL:209:GLN:HE22	1:CL:235:LEU:HB2	1.84	0.42
1:AL:71:ARG:H	2:FL:26:LEU:HD12	1.83	0.42
1:AL:239:VAL:HG21	1:AL:347:ILE:HD13	2.00	0.42
1:RL:131:PHE:HB3	1:RL:159:LYS:HE3	2.01	0.42
1:YL:31:LYS:CE	1:QR:314:GLY:HA3	2.49	0.42
1:ZL:205:ILE:HD11	1:ZL:240:ILE:HD11	2.01	0.42
3:AM:271:ARG:HA	3:AM:274:THR:HG22	2.01	0.42
5:DM:55:LEU:H	5:DM:55:LEU:HG	1.62	0.42
3:AO:152:SER:HB2	1:IS:144:THR:CA	2.35	0.42
5:NO:433:HIS:HD2	5:OO:158:GLU:OE2	2.02	0.42
1:BP:167:GLU:HA	1:BP:170:GLU:HG3	2.01	0.42
1:CP:131:PHE:HB3	1:CP:159:LYS:HE2	2.00	0.42
1:JQ:71:ARG:H	2:NQ:26:LEU:HD12	1.83	0.42
1:RQ:101:LEU:HD21	1:QR:136:ASN:HD21	1.82	0.42
1:cQ:55:PHE:HA	1:cQ:56:PRO:HD3	1.90	0.42
1:JR:144:THR:HG22	1:JR:146:ALA:H	1.84	0.42
1:ZR:367:PRO:O	1:bR:377:HIS:NE2	2.38	0.42
1:hR:41:ASN:ND2	1:hR:54:LEU:O	2.46	0.42
1:hR:71:ARG:H	2:kR:26:LEU:HD12	1.83	0.42
1:AS:62:LEU:N	1:BS:88:GLU:OE1	2.52	0.42
1:BS:179:SER:HA	1:BS:183:LEU:HD21	2.00	0.42
1:CS:106:GLU:CB	1:IS:46:PHE:CB	2.96	0.42
1:JS:347:ILE:H	1:JS:347:ILE:HG13	1.59	0.42
1:A1:347:ILE:HD12	1:A1:347:ILE:HA	1.92	0.42
1:B1:174:MET:HE3	1:B1:382:LYS:HB3	2.00	0.42
1:I1:321:VAL:HG22	1:I1:327:PHE:CE2	2.51	0.42
1:K1:22:LEU:CD1	1:Y6:49:PHE:HD1	2.32	0.42
1:Q1:360:LEU:HD21	2:X6:22:LYS:HG2	1.95	0.42
1:S1:50:VAL:HG23	1:Q8:137:ASP:HB3	2.01	0.42
1:T1:82:ILE:HD13	1:T1:82:ILE:HA	1.85	0.42
1:X1:206:LEU:HD12	1:Z1:244:ASP:CG	2.45	0.42
1:X1:318:THR:O	1:X1:318:THR:CG2	2.67	0.42
1:a1:159:LYS:NZ	1:bR:94:THR:OG1	2.34	0.42
1:f1:29:TYR:OH	1:C3:302:ASP:CB	2.67	0.42
1:g1:99:MET:SD	1:CQ:128:LYS:HB2	2.60	0.42
1:h1:50:VAL:HG23	1:QG:137:ASP:HB3	2.01	0.42
3:A2:9:ASN:N	5:F9:29:THR:HA	2.33	0.42
4:B2:30:LEU:CG	5:EA:64:TRP:CE3	3.02	0.42
5:F2:47:ASP:CA	5:FB:31:PHE:HE2	2.13	0.42
1:B3:133:LEU:HD21	1:B3:155:VAL:HG11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K3:22:LEU:CD1	1:I4:49:PHE:HD1	2.32	0.42
1:K3:50:VAL:HG23	1:I4:137:ASP:HB3	2.01	0.42
1:Q3:14:VAL:HG23	1:Z4:14:VAL:HG21	1.94	0.42
1:S3:22:LEU:CD1	1:CR:49:PHE:HD1	2.32	0.42
1:Y3:94:THR:OG1	1:jR:159:LYS:NZ	2.34	0.42
1:Y3:279:VAL:HG22	1:Y3:318:THR:HA	2.02	0.42
2:a3:11:MET:CG	1:BK:133:LEU:HG	2.49	0.42
1:I4:136:ASN:HD21	1:R8:101:LEU:HD21	1.82	0.42
1:L4:164:ASN:HD21	2:O4:25:GLU:H	1.66	0.42
2:M4:45:ILE:HG13	2:M4:46:HIS:HB3	1.99	0.42
1:Q4:62:LEU:CD1	2:n8:53:PHE:O	2.62	0.42
1:Y4:71:ARG:H	2:c4:26:LEU:HD12	1.83	0.42
1:Y4:99:MET:SD	1:Y8:128:LYS:HB2	2.60	0.42
1:f4:128:LYS:HB2	1:ZG:99:MET:SD	2.60	0.42
1:g4:205:ILE:HD11	1:g4:240:ILE:HD11	2.01	0.42
1:i4:264:ILE:H	1:i4:264:ILE:HG13	1.66	0.42
2:j4:1:MET:H3	1:CD:150:ASN:HD21	0.44	0.42
5:E5:38:TYR:HE2	5:EI:45:TYR:HB3	1.83	0.42
5:E5:64:TRP:CE3	4:BH:30:LEU:CG	3.02	0.42
1:C6:48:THR:HG22	1:iG:137:ASP:OD1	2.17	0.42
1:D6:44:THR:OG1	1:D6:45:MET:N	2.51	0.42
1:I6:31:LYS:CE	1:YR:314:GLY:HA3	2.49	0.42
1:I6:139:ARG:HD2	1:YR:81:PHE:HD2	1.25	0.42
1:Q6:49:PHE:CE2	1:LJ:111:ARG:NH1	2.87	0.42
1:Y6:206:LEU:HD12	1:a6:244:ASP:CG	2.45	0.42
1:Y6:314:GLY:HA3	1:SE:31:LYS:CE	2.49	0.42
1:Z6:55:PHE:O	1:Z6:57:LYS:NZ	2.46	0.42
1:Z6:144:THR:HG22	1:Z6:146:ALA:H	1.84	0.42
1:h6:71:ARG:H	2:l6:26:LEU:HD12	1.83	0.42
1:C7:33:TRP:CG	1:LK:174:MET:CB	2.73	0.42
1:C7:206:LEU:HD12	1:B7:244:ASP:CG	2.45	0.42
1:C7:209:GLN:HE22	1:C7:235:LEU:HB2	1.84	0.42
1:C7:318:THR:O	1:C7:318:THR:CG2	2.67	0.42
1:D7:279:VAL:HG22	1:D7:318:THR:HA	2.02	0.42
1:I7:49:PHE:HD1	1:iR:22:LEU:CD1	2.32	0.42
1:I7:128:LYS:HB2	1:cQ:99:MET:SD	2.60	0.42
1:I7:137:ASP:HB3	1:iR:50:VAL:HG23	2.01	0.42
1:K7:50:VAL:HG23	1:CQ:137:ASP:HB3	2.01	0.42
1:Q7:248:SER:OG	1:RQ:203:GLU:HB3	2.17	0.42
1:Q7:289:GLN:N	1:Q7:326:GLU:OE2	2.46	0.42
1:R7:188:VAL:HG12	1:R7:392:LEU:HD23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a7:50:VAL:HG23	1:KE:137:ASP:HB3	2.01	0.42
1:j7:279:VAL:HG22	1:j7:318:THR:HA	2.02	0.42
1:C8:12:LEU:HD21	1:C8:44:THR:HG22	2.01	0.42
1:C8:318:THR:CG2	1:C8:318:THR:O	2.67	0.42
1:A8:131:PHE:HB3	1:A8:159:LYS:HE3	2.01	0.42
1:B8:133:LEU:HD21	1:B8:155:VAL:HG11	2.00	0.42
1:D8:44:THR:OG1	1:D8:45:MET:N	2.51	0.42
1:I8:29:TYR:OH	1:IR:302:ASP:CB	2.67	0.42
1:I8:31:LYS:CE	1:IR:314:GLY:HA3	2.49	0.42
1:L8:279:VAL:HG22	1:L8:318:THR:HA	2.02	0.42
1:Q8:98:ASN:ND2	1:Q8:99:MET:N	2.67	0.42
1:Q8:206:LEU:HD12	1:S8:244:ASP:CG	2.45	0.42
1:T8:325:LYS:NZ	1:T8:325:LYS:CB	2.73	0.42
1:Z8:64:ILE:HD11	1:a8:88:GLU:CD	2.44	0.42
1:b8:44:THR:OG1	1:b8:45:MET:N	2.51	0.42
1:h8:55:PHE:HA	1:h8:56:PRO:HD3	1.91	0.42
1:h8:144:THR:HG22	1:h8:146:ALA:H	1.84	0.42
3:A9:25:ASN:OD1	5:DA:33:ASP:HA	2.19	0.42
3:A9:37:GLU:HG3	3:AA:150:TYR:CD2	2.36	0.42
4:B9:189:ASN:O	4:BA:149:LEU:HA	2.19	0.42
4:B9:251:TRP:CB	3:AB:208:LYS:HE2	2.48	0.42
5:F9:31:PHE:CE2	5:FA:46:TYR:CG	2.74	0.42
3:AA:25:ASN:ND2	5:DC:34:ASP:N	2.67	0.42
4:BA:30:LEU:CG	5:EH:64:TRP:CE3	3.03	0.42
5:DA:34:ASP:N	5:DA:34:ASP:OD1	2.44	0.42
4:BB:91:VAL:HG23	4:BB:94:PHE:HE1	1.84	0.42
5:EB:64:TRP:CE3	4:BM:30:LEU:CG	3.02	0.42
5:CB:320:ILE:O	5:CB:321:ASP:HB2	2.17	0.42
4:BC:30:LEU:HB3	5:EN:64:TRP:CG	2.49	0.42
1:DD:362:PRO:CD	1:KS:365:HIS:CE1	2.94	0.42
2:FD:2:TYR:HB3	2:MS:55:GLY:CA	2.42	0.42
2:ND:55:GLY:CA	2:FK:2:TYR:HB3	2.41	0.42
1:AE:206:LEU:HD12	1:CE:244:ASP:CG	2.45	0.42
1:FE:14:VAL:HG13	1:BP:46:PHE:CE2	2.53	0.42
1:ME:46:PHE:HE1	1:QQ:55:PHE:HE1	1.65	0.42
1:NE:44:THR:OG1	1:NE:45:MET:N	2.51	0.42
2:hE:53:PHE:O	1:CR:62:LEU:CD1	2.62	0.42
3:AF:115:ILE:HG21	3:AF:121:ILE:HG22	2.00	0.42
5:EF:64:TRP:CG	4:BO:30:LEU:HB3	2.49	0.42
1:CG:12:LEU:HD21	1:CG:44:THR:HG22	2.01	0.42
1:IG:289:GLN:N	1:IG:326:GLU:OE2	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IG:321:VAL:HG22	1:IG:327:PHE:CE2	2.51	0.42
1:LG:164:ASN:HD21	2:OG:25:GLU:H	1.66	0.42
2:UG:45:ILE:HG13	2:UG:46:HIS:HB3	1.99	0.42
1:aG:174:MET:HE3	1:aG:382:LYS:HB3	2.00	0.42
1:hG:99:MET:SD	1:CL:128:LYS:HB2	2.60	0.42
3:AH:23:HIS:CE1	3:AN:159:HIS:CD2	3.06	0.42
3:AH:309:SER:HB3	3:AN:303:TYR:O	2.19	0.42
3:AI:271:ARG:HA	3:AI:274:THR:HG22	2.01	0.42
4:BI:91:VAL:HG23	4:BI:94:PHE:HE1	1.84	0.42
1:BJ:260:GLN:HG2	1:DJ:261:ILE:HG21	2.00	0.42
1:CJ:174:MET:HE1	1:CJ:384:ILE:HG23	2.01	0.42
1:LJ:38:LYS:C	1:CS:222:SER:CB	2.81	0.42
1:LJ:38:LYS:HB3	1:CS:222:SER:HA	2.00	0.42
1:LJ:249:TYR:OH	1:LJ:254:LYS:NZ	2.52	0.42
1:AK:49:PHE:O	1:AK:51:ASN:N	2.50	0.42
1:AK:60:GLU:HB2	1:KK:87:GLU:H	1.84	0.42
1:AK:222:SER:OG	1:KP:39:TRP:C	2.61	0.42
1:AK:293:SER:HA	1:AK:324:LEU:HD13	2.00	0.42
1:BK:208:LEU:HD21	1:BK:344:ILE:HD13	2.01	0.42
1:CK:131:PHE:HB3	1:CK:159:LYS:HE2	2.00	0.42
1:CK:197:LEU:HA	1:CK:200:LYS:HB2	2.01	0.42
1:DK:115:ARG:HH12	1:KK:299:ALA:HA	1.83	0.42
1:DK:216:ASN:HD22	1:DK:229:TYR:HD2	1.67	0.42
2:EK:26:LEU:HD11	2:EK:30:MET:HB2	2.01	0.42
1:LK:33:TRP:HH2	1:DP:173:ALA:CB	1.84	0.42
1:CL:362:PRO:HA	1:CL:363:PRO:HD3	1.85	0.42
1:AL:64:ILE:HD11	1:BL:88:GLU:CD	2.44	0.42
1:AL:213:ALA:HB1	1:AL:228:GLN:HB2	2.00	0.42
1:JL:99:MET:SD	1:YR:128:LYS:HB2	2.60	0.42
1:QL:318:THR:O	1:QL:318:THR:CG2	2.67	0.42
1:aL:174:MET:HE3	1:aL:382:LYS:HB3	2.00	0.42
4:BM:91:VAL:HG23	4:BM:94:PHE:HE1	1.84	0.42
3:AO:118:ASP:OD1	3:AO:118:ASP:N	2.36	0.42
1:CP:174:MET:HE1	1:CP:384:ILE:HG23	2.01	0.42
1:DP:374:HIS:HE2	2:mR:8:ARG:HG2	1.53	0.42
1:CQ:314:GLY:HA3	1:gR:31:LYS:CE	2.49	0.42
1:CQ:362:PRO:HA	1:CQ:363:PRO:HD3	1.85	0.42
1:AQ:144:THR:HG22	1:AQ:146:ALA:H	1.84	0.42
1:AQ:367:PRO:O	1:DQ:377:HIS:NE2	2.38	0.42
1:IQ:209:GLN:HE22	1:IQ:235:LEU:HB2	1.84	0.42
1:KQ:133:LEU:HD21	1:KQ:155:VAL:HG11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:NQ:22:LYS:HD2	2:NQ:22:LYS:HA	1.73	0.42
1:YQ:264:ILE:H	1:YQ:264:ILE:HG13	1.66	0.42
1:CR:209:GLN:HE22	1:CR:235:LEU:HB2	1.84	0.42
1:AR:144:THR:HG22	1:AR:146:ALA:H	1.84	0.42
1:TR:44:THR:OG1	1:TR:45:MET:N	2.51	0.42
1:TR:279:VAL:HG22	1:TR:318:THR:HA	2.02	0.42
1:ZR:188:VAL:HG12	1:ZR:392:LEU:HD23	2.00	0.42
1:hR:213:ALA:HB1	1:hR:228:GLN:HB2	2.00	0.42
1:hR:239:VAL:HG21	1:hR:347:ILE:HD13	2.00	0.42
1:BS:285:GLU:HB3	1:BS:313:VAL:HG13	2.01	0.42
1:CS:279:VAL:HG12	1:CS:318:THR:HA	2.00	0.42
1:KS:111:ARG:HD3	1:KS:113:TYR:HE2	1.83	0.42
1:KS:243:THR:HG22	1:KS:245:SER:H	1.84	0.42
1:KS:268:ASP:OD1	1:KS:268:ASP:N	2.51	0.42
1:A1:55:PHE:O	1:A1:57:LYS:NZ	2.46	0.42
1:A1:264:ILE:H	1:A1:264:ILE:HG13	1.76	0.42
1:B1:14:VAL:HA	1:Y8:45:MET:HG2	2.02	0.42
1:B1:133:LEU:HD21	1:B1:155:VAL:HG11	2.00	0.42
1:B1:137:ASP:OD1	1:Y8:48:THR:HG22	2.17	0.42
1:I1:12:LEU:HD21	1:I1:44:THR:HG22	2.01	0.42
1:I1:300:TYR:CA	1:JG:115:ARG:NH2	2.75	0.42
1:I1:318:THR:O	1:I1:318:THR:CG2	2.67	0.42
1:J1:131:PHE:HB3	1:J1:159:LYS:HE3	2.01	0.42
1:Q1:318:THR:O	1:Q1:318:THR:CG2	2.67	0.42
1:R1:205:ILE:HD11	1:R1:240:ILE:HD11	2.01	0.42
1:T1:47:GLU:CG	1:BJ:22:LEU:HD22	2.49	0.42
2:W1:11:MET:HE2	1:CS:372:VAL:HG21	2.02	0.42
1:X1:29:TYR:OH	1:I8:302:ASP:CB	2.67	0.42
1:X1:48:THR:HG22	1:K8:137:ASP:OD1	2.17	0.42
1:X1:209:GLN:HE22	1:X1:235:LEU:HB2	1.84	0.42
1:Y1:85:TYR:CD1	1:Y1:122:GLY:HA2	2.53	0.42
1:a1:179:SER:HB2	1:a1:392:LEU:HG	2.02	0.42
1:a1:237:ASP:HB2	1:a1:347:ILE:HG22	2.01	0.42
1:a1:279:VAL:HG22	1:a1:318:THR:HA	2.02	0.42
1:f1:31:LYS:CE	1:C3:314:GLY:HA3	2.49	0.42
1:f1:45:MET:HG2	1:B3:14:VAL:HA	2.02	0.42
1:g1:71:ARG:H	2:k1:26:LEU:HD12	1.83	0.42
1:g1:239:VAL:HG21	1:g1:347:ILE:HD13	2.00	0.42
3:A2:300:LYS:HZ1	3:AB:308:THR:HG21	1.82	0.42
5:E2:55:LEU:HD21	5:EB:20:GLU:HB3	2.00	0.42
1:A3:133:LEU:HB2	2:G3:11:MET:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:206:LEU:HD12	1:K3:244:ASP:CG	2.45	0.42
2:N3:22:LYS:HD2	2:N3:22:LYS:HA	1.73	0.42
1:Q3:318:THR:O	1:Q3:318:THR:CG2	2.67	0.42
1:R3:213:ALA:HB1	1:R3:228:GLN:HB2	2.00	0.42
1:C4:158:LYS:HZ1	1:RG:93:ASP:CG	2.25	0.42
1:C4:314:GLY:HA3	1:aE:31:LYS:CE	2.49	0.42
1:A4:144:THR:HG22	1:A4:146:ALA:H	1.84	0.42
1:J4:71:ARG:H	2:N4:26:LEU:HD12	1.83	0.42
1:J4:115:ARG:NH2	1:C8:300:TYR:CA	2.75	0.42
1:Q4:137:ASP:HB3	1:KL:50:VAL:HG23	2.01	0.42
1:R4:144:THR:HG22	1:R4:146:ALA:H	1.84	0.42
1:T4:30:SER:C	1:BS:314:GLY:O	2.60	0.42
1:X4:29:TYR:OH	1:CR:302:ASP:CB	2.67	0.42
1:X4:139:ARG:HD2	1:CR:81:PHE:HE2	1.63	0.42
1:Z4:174:MET:HE3	1:Z4:382:LYS:HB3	2.00	0.42
1:g4:64:ILE:HD11	1:h4:88:GLU:CD	2.44	0.42
1:g4:89:TYR:CZ	1:YG:63:LEU:HD13	2.51	0.42
3:A5:271:ARG:HA	3:A5:274:THR:HG22	2.01	0.42
1:C6:98:ASN:ND2	1:C6:99:MET:N	2.67	0.42
1:A6:64:ILE:HD11	1:B6:88:GLU:CD	2.44	0.42
1:J6:213:ALA:HB1	1:J6:228:GLN:HB2	2.00	0.42
1:K6:50:VAL:HG23	1:CL:137:ASP:HB3	2.01	0.42
1:Q6:98:ASN:ND2	1:Q6:99:MET:N	2.67	0.42
1:Q6:302:ASP:CG	1:CS:29:TYR:CZ	2.83	0.42
1:S6:144:THR:CA	1:AS:82:ILE:HD12	2.03	0.42
1:T6:279:VAL:HG22	1:T6:318:THR:HA	2.02	0.42
1:Y6:318:THR:O	1:Y6:318:THR:CG2	2.67	0.42
1:b6:44:THR:OG1	1:b6:45:MET:N	2.51	0.42
1:b6:172:ARG:NH1	1:b6:277:GLY:H	2.16	0.42
1:g6:82:ILE:HG12	1:DJ:144:THR:C	2.44	0.42
1:h6:55:PHE:HA	1:h6:56:PRO:HD3	1.90	0.42
1:h6:111:ARG:HG2	1:AE:132:THR:HG21	1.23	0.42
1:j6:172:ARG:NH1	1:j6:277:GLY:H	2.16	0.42
1:A7:55:PHE:HA	1:A7:56:PRO:HD3	1.90	0.42
1:I7:362:PRO:HA	1:I7:363:PRO:HD3	1.85	0.42
1:J7:64:ILE:HD11	1:K7:88:GLU:CD	2.44	0.42
1:J7:239:VAL:HG21	1:J7:347:ILE:HD13	2.00	0.42
1:Q7:206:LEU:HD12	1:S7:244:ASP:CG	2.45	0.42
1:Y7:49:PHE:HD1	1:SQ:22:LEU:CD1	2.32	0.42
1:Y7:209:GLN:HE22	1:Y7:235:LEU:HB2	1.84	0.42
1:b7:237:ASP:HB2	1:b7:347:ILE:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h7:347:ILE:HD12	1:h7:347:ILE:HA	1.92	0.42
1:h7:362:PRO:HA	1:h7:363:PRO:HD3	1.83	0.42
1:A8:205:ILE:HD11	1:A8:240:ILE:HD11	2.01	0.42
1:I8:12:LEU:HD21	1:I8:44:THR:HG22	2.01	0.42
2:M8:44:GLN:HB3	2:M8:45:ILE:H	1.63	0.42
1:Q8:12:LEU:HD21	1:Q8:44:THR:HG22	2.01	0.42
1:Q8:81:PHE:HE2	1:IG:139:ARG:HD2	1.63	0.42
1:S8:22:LEU:CD1	1:IG:49:PHE:HD1	2.32	0.42
1:S8:50:VAL:HG23	1:IG:137:ASP:HB3	2.01	0.42
1:a8:14:VAL:HG23	1:bQ:14:VAL:HG21	1.96	0.42
1:h8:205:ILE:HD11	1:h8:240:ILE:HD11	2.01	0.42
3:A9:154:ILE:CA	1:AK:145:LEU:CD1	2.21	0.42
5:E9:140:ASP:N	5:C9:139:LYS:CA	2.81	0.42
5:CA:158:GLU:OE2	5:OA:433:HIS:HD2	2.02	0.42
5:NB:230:SER:C	5:CF:266:THR:CB	2.89	0.42
1:BD:167:GLU:HA	1:BD:170:GLU:HG3	2.01	0.42
1:LD:297:LEU:HB3	1:LD:302:ASP:HB3	2.01	0.42
1:DE:237:ASP:HB2	1:DE:347:ILE:HG22	2.01	0.42
1:DE:264:ILE:H	1:DE:264:ILE:HG13	1.66	0.42
1:AE:318:THR:O	1:AE:318:THR:CG2	2.67	0.42
1:BE:121:TYR:HA	1:CP:36:GLY:HA2	2.01	0.42
1:BE:144:THR:HG22	1:BE:146:ALA:H	1.84	0.42
1:BE:178:TYR:CD1	1:CP:35:PHE:CZ	3.08	0.42
1:BE:222:SER:CA	1:CP:38:LYS:CE	1.77	0.42
1:FE:47:GLU:CG	1:BP:22:LEU:HD22	2.49	0.42
1:FE:58:ILE:HD11	1:BP:55:PHE:CD2	2.54	0.42
1:LE:133:LEU:HB2	2:QE:11:MET:HG2	2.00	0.42
1:ME:14:VAL:HA	1:QQ:45:MET:HG2	2.02	0.42
1:NE:172:ARG:NH1	1:NE:277:GLY:H	2.16	0.42
1:VE:279:VAL:HG22	1:VE:318:THR:HA	2.02	0.42
1:bE:264:ILE:H	1:bE:264:ILE:HG13	1.76	0.42
1:dE:237:ASP:HB2	1:dE:347:ILE:HG22	2.01	0.42
4:BF:86:ILE:HD12	4:BF:86:ILE:HA	1.91	0.42
5:DF:34:ASP:N	3:AM:25:ASN:ND2	2.67	0.42
1:AG:99:MET:SD	1:YL:128:LYS:HB2	2.60	0.42
1:JG:239:VAL:HG21	1:JG:347:ILE:HD13	2.00	0.42
1:RG:144:THR:HG22	1:RG:146:ALA:H	1.84	0.42
1:bG:279:VAL:HG22	1:bG:318:THR:HA	2.02	0.42
1:gG:63:LEU:HD13	1:AL:89:TYR:HE2	1.71	0.42
1:hG:239:VAL:HG21	1:hG:347:ILE:HD13	2.00	0.42
1:jG:237:ASP:HB2	1:jG:347:ILE:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AH:115:ILE:HG21	3:AH:121:ILE:HG22	2.00	0.42
3:AI:9:ASN:O	5:FO:28:TYR:N	2.52	0.42
3:AI:81:LEU:HD11	1:JS:359:MET:HE1	1.92	0.42
3:AI:208:LYS:HE2	4:BM:251:TRP:CB	2.48	0.42
5:EI:25:ARG:NH1	5:DO:54:LYS:CD	2.71	0.42
5:NI:433:HIS:HD2	5:OI:158:GLU:OE2	2.02	0.42
1:AJ:293:SER:HA	1:AJ:324:LEU:HD13	2.00	0.42
1:CJ:197:LEU:HA	1:CJ:200:LYS:HB2	2.01	0.42
2:EJ:26:LEU:HD11	2:EJ:30:MET:HB2	2.01	0.42
1:KJ:153:LEU:HD23	2:MP:6:ASN:HA	2.00	0.42
1:BK:22:LEU:HD22	1:jR:47:GLU:CG	2.49	0.42
1:LK:111:ARG:HD3	1:LK:113:TYR:HE2	1.83	0.42
1:LK:145:LEU:HD21	1:DP:80:ASP:CB	2.24	0.42
1:CL:314:GLY:HA3	1:YR:31:LYS:CE	2.49	0.42
1:BL:50:VAL:HG23	1:YR:137:ASP:HB3	2.01	0.42
1:BL:362:PRO:HA	1:BL:363:PRO:HD3	1.79	0.42
1:IL:29:TYR:OH	1:IQ:302:ASP:CB	2.67	0.42
1:IL:206:LEU:HD12	1:KL:244:ASP:CG	2.45	0.42
1:QL:209:GLN:HE22	1:QL:235:LEU:HB2	1.84	0.42
1:YL:206:LEU:HD12	1:aL:244:ASP:CG	2.45	0.42
3:AM:115:ILE:HG21	3:AM:121:ILE:HG22	2.00	0.42
4:BM:149:LEU:HA	4:BO:189:ASN:O	2.19	0.42
5:EM:40:THR:OG1	3:AO:11:GLU:O	2.30	0.42
4:BN:141:THR:OG1	4:BN:196:SER:OG	2.34	0.42
5:CN:433:HIS:HD2	5:NN:158:GLU:OE2	2.02	0.42
1:AP:71:ARG:H	2:MP:26:LEU:HD13	1.85	0.42
1:KP:326:GLU:OE1	1:KP:326:GLU:HA	2.19	0.42
1:LP:249:TYR:OH	1:LP:254:LYS:NZ	2.52	0.42
1:AQ:188:VAL:HG12	1:AQ:392:LEU:HD23	2.00	0.42
1:cQ:239:VAL:HG21	1:cQ:347:ILE:HD13	2.00	0.42
1:eQ:237:ASP:HB2	1:eQ:347:ILE:HG22	2.01	0.42
1:CR:362:PRO:HA	1:CR:363:PRO:HD3	1.84	0.42
1:BR:133:LEU:HD21	1:BR:155:VAL:HG11	2.00	0.42
1:JR:205:ILE:HD11	1:JR:240:ILE:HD11	2.01	0.42
1:KR:174:MET:HE3	1:KR:382:LYS:HB3	2.00	0.42
1:LR:179:SER:HB2	1:LR:392:LEU:HG	2.02	0.42
1:QR:98:ASN:ND2	1:QR:99:MET:N	2.67	0.42
1:YR:362:PRO:HA	1:YR:363:PRO:HD3	1.85	0.42
1:ZR:144:THR:HG22	1:ZR:146:ALA:H	1.84	0.42
1:IS:75:LEU:HD13	1:IS:75:LEU:HA	1.90	0.42
1:C1:98:ASN:ND2	1:C1:99:MET:N	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:128:LYS:HB2	1:A6:99:MET:SD	2.60	0.42
1:A1:64:ILE:HD11	1:B1:88:GLU:CD	2.44	0.42
1:A1:99:MET:SD	1:C6:128:LYS:HB2	2.60	0.42
1:J1:205:ILE:HD11	1:J1:240:ILE:HD11	2.01	0.42
1:Q1:128:LYS:HB2	1:R6:99:MET:SD	2.60	0.42
1:Q1:209:GLN:HE22	1:Q1:235:LEU:HB2	1.84	0.42
1:R1:41:ASN:ND2	1:R1:54:LEU:O	2.46	0.42
1:R1:118:THR:OG1	1:CJ:53:TYR:HB3	2.19	0.42
1:T1:94:THR:OG1	1:L3:159:LYS:NZ	2.34	0.42
1:T1:325:LYS:NZ	1:T1:325:LYS:CB	2.73	0.42
1:Y1:205:ILE:HD11	1:Y1:240:ILE:HD11	2.01	0.42
1:f1:12:LEU:HD21	1:f1:44:THR:HG22	2.01	0.42
1:f1:206:LEU:HD12	1:h1:244:ASP:CG	2.45	0.42
3:A2:25:ASN:OD1	5:D9:33:ASP:HA	2.20	0.42
5:F2:132:ASN:C	5:N2:139:LYS:CE	2.92	0.42
1:C3:31:LYS:CE	1:QG:314:GLY:HA3	2.49	0.42
1:I3:12:LEU:HD21	1:I3:44:THR:HG22	2.01	0.42
1:J3:64:ILE:HD11	1:K3:88:GLU:CD	2.44	0.42
1:Q3:31:LYS:CE	1:X4:314:GLY:HA3	2.49	0.42
1:Q3:49:PHE:HD1	1:Z4:22:LEU:CD1	2.32	0.42
1:Q3:132:THR:HG21	1:J8:111:ARG:HG2	1.23	0.42
1:Q3:137:ASP:HB3	1:Z4:50:VAL:HG23	2.01	0.42
1:C4:49:PHE:HD1	1:BG:22:LEU:CD1	2.32	0.42
1:A4:111:ARG:HG2	1:QG:132:THR:HG21	1.23	0.42
1:A4:205:ILE:HD11	1:A4:240:ILE:HD11	2.01	0.42
1:B4:14:VAL:HA	1:aE:45:MET:HG2	2.02	0.42
2:H4:53:PHE:O	1:QG:62:LEU:CD1	2.62	0.42
1:J4:239:VAL:HG21	1:J4:347:ILE:HD13	2.00	0.42
1:R4:316:VAL:HG22	1:BS:31:LYS:NZ	2.34	0.42
1:S4:100:ASP:HB2	1:BS:26:ASN:C	2.44	0.42
1:T4:26:ASN:C	1:KS:100:ASP:OD2	2.40	0.42
1:a4:44:THR:OG1	1:a4:45:MET:N	2.51	0.42
1:a4:104:ASN:ND2	1:a4:106:GLU:OE2	2.53	0.42
1:a4:279:VAL:HG22	1:a4:318:THR:HA	2.02	0.42
1:f4:45:MET:HG2	1:B6:14:VAL:HA	2.02	0.42
1:g4:82:ILE:HD12	1:CD:139:ARG:HA	2.01	0.42
1:h4:150:ASN:HD21	2:FL:1:MET:H2	1.67	0.42
1:i4:153:LEU:HB3	2:HD:2:TYR:CE2	2.54	0.42
1:i4:164:ASN:HD21	2:k4:25:GLU:H	1.66	0.42
4:B5:30:LEU:CG	5:EO:64:TRP:CE3	3.02	0.42
5:D5:34:ASP:N	3:AN:25:ASN:ND2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:55:PHE:O	1:A6:57:LYS:NZ	2.46	0.42
1:K6:14:VAL:HA	1:CL:45:MET:HG2	2.02	0.42
1:Q6:31:LYS:CE	1:LJ:314:GLY:CA	2.97	0.42
1:Y6:209:GLN:HE22	1:Y6:235:LEU:HB2	1.84	0.42
1:g6:27:HIS:CG	1:LP:312:PRO:CD	2.98	0.42
1:g6:206:LEU:HD12	1:i6:244:ASP:CG	2.45	0.42
1:i6:372:VAL:HG21	2:EJ:10:MET:HB3	2.02	0.42
1:j6:179:SER:HB2	1:j6:392:LEU:HG	2.02	0.42
1:C7:98:ASN:ND2	1:C7:99:MET:N	2.67	0.42
1:A7:85:TYR:CD1	1:A7:122:GLY:HA2	2.53	0.42
1:A7:131:PHE:HB3	1:A7:159:LYS:HE3	2.01	0.42
1:B7:19:LYS:NZ	1:B7:37:ASP:OD1	2.37	0.42
1:D7:179:SER:HB2	1:D7:392:LEU:HG	2.02	0.42
1:D7:237:ASP:HB2	1:D7:347:ILE:HG22	2.01	0.42
1:I7:45:MET:HG2	1:iR:14:VAL:HA	2.02	0.42
1:I7:314:GLY:HA3	1:CQ:31:LYS:CE	2.49	0.42
1:J7:168:GLU:OE2	1:K7:211:ASN:ND2	2.38	0.42
1:J7:226:ILE:HG22	1:bQ:299:ALA:HB1	2.02	0.42
1:L7:179:SER:HB2	1:L7:392:LEU:HG	2.02	0.42
1:R7:99:MET:SD	1:QQ:128:LYS:HB2	2.60	0.42
1:Y7:98:ASN:ND2	1:Y7:99:MET:N	2.67	0.42
1:Y7:128:LYS:HB2	1:JR:99:MET:SD	2.60	0.42
1:Z7:144:THR:HG22	1:Z7:146:ALA:H	1.84	0.42
1:a7:22:LEU:CD1	1:KE:49:PHE:HD1	2.32	0.42
1:a7:47:GLU:OE2	1:KE:22:LEU:CD1	2.67	0.42
1:b7:164:ASN:HD21	2:e7:25:GLU:H	1.66	0.42
1:I8:318:THR:O	1:I8:318:THR:CG2	2.67	0.42
1:b8:172:ARG:NH1	1:b8:277:GLY:H	2.16	0.42
1:g8:49:PHE:CE2	1:KS:111:ARG:NH1	2.87	0.42
1:j8:237:ASP:HB2	1:j8:347:ILE:HG22	2.01	0.42
3:AA:106:ARG:CB	2:MK:19:ARG:HG2	2.29	0.42
3:AA:271:ARG:HA	3:AA:274:THR:HG22	2.01	0.42
5:CC:244:ALA:HB3	5:OH:351:ASN:O	2.20	0.42
1:AD:98:ASN:HB3	1:YG:28:ASP:O	2.18	0.42
1:LD:16:LYS:HD2	1:LD:19:LYS:HG2	2.02	0.42
1:LD:174:MET:CB	1:YG:33:TRP:CG	2.73	0.42
1:AE:209:GLN:HE22	1:AE:235:LEU:HB2	1.84	0.42
1:BE:118:THR:CG2	1:CP:53:TYR:HB3	2.48	0.42
1:CE:362:PRO:HA	1:CE:363:PRO:HD3	1.79	0.42
1:FE:44:THR:OG1	1:FE:45:MET:N	2.51	0.42
1:LE:71:ARG:H	2:PE:26:LEU:HD12	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NE:179:SER:HB2	1:NE:392:LEU:HG	2.02	0.42
1:NE:325:LYS:HB2	1:NE:325:LYS:HZ2	1.79	0.42
1:TE:264:ILE:H	1:TE:264:ILE:HG13	1.76	0.42
1:bE:99:MET:SD	1:CR:128:LYS:HB2	2.60	0.42
1:cE:133:LEU:HD21	1:cE:155:VAL:HG11	2.00	0.42
1:dE:44:THR:OG1	1:dE:45:MET:N	2.51	0.42
5:FF:51:ARG:HG2	4:BO:32:PHE:CE1	2.54	0.42
1:AG:39:TRP:O	1:DG:222:SER:OG	2.32	0.42
1:DG:264:ILE:H	1:DG:264:ILE:HG13	1.66	0.42
1:JG:205:ILE:HD11	1:JG:240:ILE:HD11	2.01	0.42
1:bG:44:THR:OG1	1:bG:45:MET:N	2.51	0.42
1:bG:104:ASN:ND2	1:bG:106:GLU:OE2	2.53	0.42
1:gG:299:ALA:HB1	1:AL:226:ILE:HG22	2.02	0.42
3:AH:150:TYR:OH	1:AP:149:THR:HG23	2.19	0.42
3:AH:271:ARG:HA	3:AH:274:THR:HG22	2.01	0.42
5:EH:107:ASP:HB3	5:EH:108:GLU:H	1.63	0.42
3:AI:115:ILE:HG21	3:AI:121:ILE:HG22	2.00	0.42
4:BI:53:ILE:HA	4:BI:53:ILE:HD12	1.85	0.42
5:EI:64:TRP:CE3	4:BN:30:LEU:CG	3.02	0.42
1:DJ:362:PRO:HD2	1:LP:365:HIS:ND1	2.35	0.42
1:KJ:368:GLU:OE2	1:AP:130:LYS:HD2	2.19	0.42
1:AK:59:ASN:CG	1:AK:143:GLN:OE1	2.60	0.42
1:AK:218:VAL:HG21	1:AK:229:TYR:HB3	2.01	0.42
1:BK:209:GLN:HB3	2:FK:34:THR:HG22	2.02	0.42
1:CK:139:ARG:HA	1:hR:82:ILE:HD12	2.01	0.42
1:KK:101:LEU:N	1:KP:25:PHE:O	2.49	0.42
1:KK:326:GLU:HA	1:KK:326:GLU:OE1	2.19	0.42
1:DL:179:SER:HB2	1:DL:392:LEU:HG	2.02	0.42
1:IL:12:LEU:HD21	1:IL:44:THR:HG22	2.01	0.42
1:IL:31:LYS:CE	1:IQ:314:GLY:HA3	2.49	0.42
1:IL:45:MET:HG2	1:KQ:14:VAL:HA	2.02	0.42
1:IL:360:LEU:HD21	2:fR:22:LYS:HG2	1.95	0.42
1:QL:128:LYS:HB2	1:RR:99:MET:SD	2.60	0.42
1:QL:360:LEU:HD21	2:XR:22:LYS:HG2	1.95	0.42
1:RL:205:ILE:HD11	1:RL:240:ILE:HD11	2.01	0.42
1:YL:209:GLN:HE22	1:YL:235:LEU:HB2	1.84	0.42
5:FM:28:TYR:N	3:AO:9:ASN:O	2.52	0.42
3:AN:79:MET:HB3	3:AN:79:MET:HE2	1.81	0.42
3:AN:104:GLN:CG	2:MP:9:SER:O	2.63	0.42
3:AN:115:ILE:HG21	3:AN:121:ILE:HG22	2.00	0.42
4:BN:91:VAL:HG23	4:BN:94:PHE:HE1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FN:132:ASN:C	5:NN:139:LYS:CE	2.92	0.42
4:BO:91:VAL:HG23	4:BO:94:PHE:HE1	1.84	0.42
1:AP:59:ASN:CG	1:AP:143:GLN:OE1	2.60	0.42
1:AP:158:LYS:HZ1	1:KP:92:MET:C	2.26	0.42
1:AP:362:PRO:HA	1:AP:363:PRO:HD3	1.86	0.42
1:CP:285:GLU:HB3	1:CP:313:VAL:HG13	2.01	0.42
2:HP:40:SER:O	1:LP:265:ASP:N	2.52	0.42
1:LP:16:LYS:HD2	1:LP:19:LYS:HG2	2.02	0.42
1:LP:355:TYR:HB3	1:LP:379:TYR:HB3	2.01	0.42
1:AQ:131:PHE:HB3	1:AQ:159:LYS:HE3	2.01	0.42
2:UQ:45:ILE:HG13	2:UQ:46:HIS:HB3	1.99	0.42
1:IR:209:GLN:HE22	1:IR:235:LEU:HB2	1.84	0.42
1:LR:44:THR:OG1	1:LR:45:MET:N	2.51	0.42
1:LR:279:VAL:HG22	1:LR:318:THR:HA	2.02	0.42
1:SR:362:PRO:HA	1:SR:363:PRO:HD3	1.79	0.42
1:ZR:131:PHE:HB3	1:ZR:159:LYS:HE3	2.01	0.42
1:ZR:205:ILE:HD11	1:ZR:240:ILE:HD11	2.01	0.42
2:DS:36:LYS:HE2	2:DS:36:LYS:HB3	1.82	0.42
1:A1:133:LEU:HB2	2:G1:11:MET:HG2	2.00	0.42
1:I1:31:LYS:CE	1:SE:314:GLY:HA3	2.49	0.42
1:J1:226:ILE:HG22	1:IG:299:ALA:HB1	2.02	0.42
1:Q1:12:LEU:HD21	1:Q1:44:THR:HG22	2.01	0.42
1:R1:71:ARG:H	2:U1:26:LEU:HD12	1.83	0.42
1:T1:153:LEU:HB3	2:HJ:2:TYR:CE2	2.54	0.42
2:U1:6:ASN:N	1:CJ:153:LEU:HD12	2.34	0.42
1:X1:98:ASN:ND2	1:X1:99:MET:N	2.67	0.42
1:X1:128:LYS:HB2	1:J6:99:MET:SD	2.60	0.42
1:Y1:131:PHE:HB3	1:Y1:159:LYS:HE3	2.01	0.42
1:Z1:19:LYS:NZ	1:Z1:37:ASP:OD1	2.37	0.42
1:Z1:174:MET:HE3	1:Z1:382:LYS:HB3	2.00	0.42
1:f1:55:PHE:HE1	1:B3:46:PHE:HE1	1.65	0.42
3:A2:23:HIS:CE1	3:A9:159:HIS:CD2	3.06	0.42
4:B2:184:ASN:CB	4:B9:154:GLY:HA3	2.49	0.42
5:F2:51:ARG:HG2	4:BF:32:PHE:CE1	2.54	0.42
1:J3:362:PRO:HA	1:J3:363:PRO:HD3	1.83	0.42
1:L3:255:ILE:HA	1:L3:258:THR:HG22	2.02	0.42
1:Q3:302:ASP:CB	1:CR:29:TYR:OH	2.67	0.42
1:Q3:360:LEU:HD13	1:Q3:360:LEU:HA	1.88	0.42
1:R3:64:ILE:HD11	1:S3:88:GLU:CD	2.44	0.42
1:b3:279:VAL:HG22	1:b3:318:THR:HA	2.02	0.42
1:C4:208:LEU:HD12	1:C4:391:ILE:CD1	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C4:299:ALA:HB1	1:RG:226:ILE:HG22	2.02	0.42
1:C4:370:ASP:CG	1:CG:361:LYS:HZ2	2.27	0.42
1:A4:362:PRO:HA	1:A4:363:PRO:HD3	1.83	0.42
1:D4:279:VAL:HG22	1:D4:318:THR:HA	2.02	0.42
1:I4:299:ALA:HB1	1:A8:226:ILE:HG22	2.02	0.42
1:J4:205:ILE:HD11	1:J4:240:ILE:HD11	2.01	0.42
1:J4:213:ALA:HB1	1:J4:228:GLN:HB2	2.00	0.42
1:Q4:302:ASP:CB	1:IQ:29:TYR:OH	2.67	0.42
1:Q4:314:GLY:HA3	1:IQ:31:LYS:CE	2.49	0.42
1:X4:45:MET:HG2	1:BR:14:VAL:HA	2.01	0.42
1:Y4:205:ILE:HD11	1:Y4:240:ILE:HD11	2.01	0.42
1:a4:255:ILE:HA	1:a4:258:THR:HG22	2.02	0.42
1:a4:265:ASP:N	1:a4:265:ASP:OD1	2.48	0.42
1:f4:48:THR:HG22	1:B6:137:ASP:OD1	2.17	0.42
1:g4:131:PHE:HB3	1:g4:159:LYS:HE3	2.01	0.42
1:g4:271:ILE:HG22	2:l4:45:ILE:HD11	2.02	0.42
1:i4:136:ASN:HA	1:CD:81:PHE:HZ	1.84	0.42
1:i4:172:ARG:NH1	1:i4:277:GLY:H	2.16	0.42
3:A5:9:ASN:O	5:FI:28:TYR:N	2.52	0.42
3:A5:25:ASN:OD1	5:DI:33:ASP:HA	2.20	0.42
4:B5:189:ASN:O	4:BI:149:LEU:HA	2.19	0.42
5:O5:351:ASN:O	5:CN:244:ALA:HB3	2.20	0.42
1:C6:360:LEU:HD13	1:C6:360:LEU:HA	1.88	0.42
1:B6:133:LEU:HD21	1:B6:155:VAL:HG11	2.00	0.42
1:I6:49:PHE:HD1	1:aR:22:LEU:CD1	2.32	0.42
1:I6:150:ASN:OD1	2:PL:2:TYR:CB	2.53	0.42
1:R6:347:ILE:HD12	1:R6:347:ILE:HA	1.92	0.42
1:S6:47:GLU:H	1:CS:20:SER:HB2	1.85	0.42
1:a6:174:MET:HE3	1:a6:382:LYS:HB3	2.00	0.42
1:b6:179:SER:HB2	1:b6:392:LEU:HG	2.02	0.42
1:h6:144:THR:HG22	1:h6:146:ALA:H	1.84	0.42
1:C7:128:LYS:HB2	1:hR:99:MET:SD	2.60	0.42
1:A7:64:ILE:HD11	1:B7:88:GLU:CD	2.44	0.42
1:A7:205:ILE:HD11	1:A7:240:ILE:HD11	2.01	0.42
1:B7:174:MET:HE3	1:B7:382:LYS:HB3	2.00	0.42
2:H7:53:PHE:O	1:gR:62:LEU:CD1	2.62	0.42
2:N7:1:MET:H2	1:a8:150:ASN:HD21	1.67	0.42
1:Q7:45:MET:HG2	1:aL:14:VAL:HA	2.02	0.42
1:R7:64:ILE:HD11	1:S7:88:GLU:CD	2.44	0.42
1:R7:133:LEU:HB2	2:W7:11:MET:HG2	2.00	0.42
1:R7:240:ILE:HB	1:R7:270:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y7:29:TYR:OH	1:QQ:302:ASP:CB	2.67	0.42
1:b7:279:VAL:HG22	1:b7:318:THR:HA	2.02	0.42
1:h7:271:ILE:HG22	2:n7:45:ILE:HD11	2.02	0.42
1:i7:22:LEU:CD1	1:C8:49:PHE:HD1	2.32	0.42
1:j7:237:ASP:HB2	1:j7:347:ILE:HG22	2.01	0.42
1:I8:137:ASP:HB3	1:KR:50:VAL:HG23	2.01	0.42
1:R8:64:ILE:HD11	1:S8:88:GLU:CD	2.44	0.42
1:Y8:314:GLY:HA3	1:bQ:31:LYS:CE	2.49	0.42
1:Z8:131:PHE:HB3	1:Z8:159:LYS:HE3	2.01	0.42
1:Z8:271:ILE:HG22	2:f8:45:ILE:HD11	2.02	0.42
1:b8:164:ASN:HD21	2:e8:25:GLU:H	1.66	0.42
1:h8:362:PRO:HA	1:h8:363:PRO:HD3	1.83	0.42
1:j8:279:VAL:HG22	1:j8:318:THR:HA	2.02	0.42
3:A9:309:SER:HB3	3:AA:303:TYR:O	2.19	0.42
4:B9:53:ILE:HD12	4:B9:53:ILE:HA	1.85	0.42
5:E9:20:GLU:HB3	5:EA:55:LEU:HD21	2.01	0.42
3:AA:25:ASN:OD1	5:DC:33:ASP:HA	2.20	0.42
3:AA:309:SER:HB3	3:AC:303:TYR:O	2.19	0.42
4:BA:10:ASP:OD2	5:FC:38:TYR:OH	2.24	0.42
4:BA:91:VAL:HG23	4:BA:94:PHE:HE1	1.84	0.42
4:BA:188:ASP:N	4:BA:188:ASP:OD1	2.51	0.42
4:BB:188:ASP:OD1	4:BB:188:ASP:N	2.51	0.42
3:AC:9:ASN:O	5:FH:28:TYR:N	2.52	0.42
3:AC:29:ARG:HH11	1:AP:136:ASN:HA	1.06	0.42
5:CC:158:GLU:OE2	5:OC:433:HIS:HD2	2.02	0.42
1:AD:293:SER:HA	1:AD:324:LEU:HD13	2.01	0.42
1:DD:123:ASN:HD21	1:KS:21:ALA:HA	1.83	0.42
1:DD:216:ASN:HD22	1:DD:229:TYR:HD2	1.67	0.42
2:HD:40:SER:O	1:LD:265:ASP:N	2.52	0.42
1:LD:111:ARG:NH1	1:YG:49:PHE:CE2	2.87	0.42
1:DE:98:ASN:O	1:FE:304:GLN:NE2	2.48	0.42
1:DE:279:VAL:HG22	1:DE:318:THR:HA	2.02	0.42
1:CE:174:MET:HE3	1:CE:382:LYS:HB3	2.00	0.42
1:FE:164:ASN:HD21	2:IE:25:GLU:H	1.66	0.42
1:FE:179:SER:HB2	1:FE:392:LEU:HG	2.02	0.42
2:JE:15:TYR:HH	1:DJ:133:LEU:HD12	1.81	0.42
1:KE:206:LEU:HD12	1:ME:244:ASP:CG	2.45	0.42
1:LE:144:THR:HG22	1:LE:146:ALA:H	1.84	0.42
1:NE:237:ASP:HB2	1:NE:347:ILE:HG22	2.01	0.42
1:TE:271:ILE:HG22	2:ZE:45:ILE:HD11	2.02	0.42
3:AF:150:TYR:CD2	3:AM:37:GLU:HG3	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EF:64:TRP:CE3	4:BO:30:LEU:CG	3.02	0.42
1:DG:237:ASP:HB2	1:DG:347:ILE:HG22	2.01	0.42
1:KG:19:LYS:NZ	1:KG:37:ASP:OD1	2.37	0.42
1:LG:237:ASP:HB2	1:LG:347:ILE:HG22	2.01	0.42
1:ZG:205:ILE:HD11	1:ZG:240:ILE:HD11	2.01	0.42
1:bG:265:ASP:N	1:bG:265:ASP:OD1	2.48	0.42
1:hG:55:PHE:HA	1:hG:56:PRO:HD3	1.90	0.42
1:hG:131:PHE:HB3	1:hG:159:LYS:HE3	2.01	0.42
3:AH:254:LEU:HD12	3:AH:254:LEU:HA	1.80	0.42
3:AI:23:HIS:CE1	3:AO:159:HIS:CD2	3.06	0.42
4:BI:184:ASN:CB	4:BO:154:GLY:HA3	2.49	0.42
5:FI:132:ASN:C	5:NI:139:LYS:CE	2.92	0.42
1:AJ:218:VAL:HG21	1:AJ:229:TYR:HB3	2.01	0.42
1:BJ:209:GLN:HB3	2:FJ:34:THR:HG22	2.02	0.42
1:DJ:81:PHE:O	1:LP:139:ARG:HB3	2.19	0.42
1:DJ:133:LEU:HD13	1:DJ:133:LEU:HA	1.93	0.42
2:FJ:16:GLU:OE1	2:FJ:16:GLU:N	2.51	0.42
1:KJ:326:GLU:OE1	1:KJ:326:GLU:HA	2.19	0.42
1:LJ:274:ASP:N	1:LJ:274:ASP:OD1	2.53	0.42
1:BK:347:ILE:HD12	1:BK:347:ILE:HA	1.95	0.42
2:HK:2:TYR:CE2	1:jR:153:LEU:HB3	2.54	0.42
1:LK:139:ARG:HB3	1:DP:81:PHE:O	2.19	0.42
1:LK:249:TYR:OH	1:LK:254:LYS:NZ	2.53	0.42
2:MK:11:MET:HE3	1:KP:372:VAL:HG22	1.73	0.42
2:MK:11:MET:HA	2:MK:14:SER:HB2	2.00	0.42
1:AL:188:VAL:HG12	1:AL:392:LEU:HD23	2.00	0.42
1:JL:71:ARG:H	2:NL:26:LEU:HD12	1.83	0.42
1:JL:239:VAL:HG21	1:JL:347:ILE:HD13	2.00	0.42
1:QL:12:LEU:HD21	1:QL:44:THR:HG22	2.01	0.42
1:RL:41:ASN:ND2	1:RL:54:LEU:O	2.46	0.42
1:RL:64:ILE:HD11	1:SL:88:GLU:CD	2.44	0.42
1:RL:71:ARG:H	2:VL:26:LEU:HD12	1.83	0.42
1:TL:325:LYS:NZ	1:TL:325:LYS:CB	2.73	0.42
1:YL:55:PHE:HE1	1:SR:46:PHE:HE1	1.65	0.42
1:bL:104:ASN:ND2	1:bL:106:GLU:OE2	2.53	0.42
1:bL:164:ASN:HD21	2:eL:25:GLU:H	1.66	0.42
5:FM:132:ASN:C	5:NM:139:LYS:CE	2.92	0.42
3:AO:154:ILE:HB	1:IS:144:THR:N	2.34	0.42
5:FO:132:ASN:C	5:NO:139:LYS:CE	2.92	0.42
1:BP:109:LEU:HD11	1:hR:105:GLU:CA	2.25	0.42
2:HP:34:THR:HB	1:LP:209:GLN:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:205:ILE:HD11	1:AQ:240:ILE:HD11	2.01	0.42
1:DQ:279:VAL:HG22	1:DQ:318:THR:HA	2.02	0.42
1:JQ:133:LEU:HB2	2:OQ:11:MET:HG2	2.00	0.42
1:RQ:64:ILE:HD11	1:SQ:88:GLU:CD	2.44	0.42
1:RQ:271:ILE:HG22	2:XQ:45:ILE:HD11	2.02	0.42
2:aQ:11:MET:CG	1:AS:133:LEU:HG	2.49	0.42
1:AR:239:VAL:HG21	1:AR:347:ILE:HD13	2.00	0.42
1:AR:347:ILE:HD12	1:AR:347:ILE:HA	1.92	0.42
1:DR:172:ARG:NH1	1:DR:277:GLY:H	2.16	0.42
1:DR:279:VAL:HG22	1:DR:318:THR:HA	2.02	0.42
1:RR:64:ILE:HD11	1:SR:88:GLU:CD	2.44	0.42
1:TR:164:ASN:HD21	2:WR:25:GLU:H	1.66	0.42
2:VR:36:LYS:HE2	2:VR:36:LYS:HB3	1.94	0.42
1:bR:279:VAL:HG22	1:bR:318:THR:HA	2.02	0.42
1:AS:208:LEU:HD21	1:AS:344:ILE:HD13	2.01	0.42
1:CS:180:LEU:HD13	1:CS:180:LEU:HA	1.94	0.42
1:IS:60:GLU:HB2	1:JS:87:GLU:H	1.84	0.42
1:C1:132:THR:HG21	1:A6:111:ARG:HG2	1.23	0.42
1:A1:205:ILE:HD11	1:A1:240:ILE:HD11	2.01	0.42
1:I1:49:PHE:HD1	1:UE:22:LEU:CD1	2.32	0.42
1:K1:50:VAL:HG23	1:Y6:137:ASP:HB3	2.01	0.42
1:L1:164:ASN:HD21	2:O1:25:GLU:H	1.66	0.42
1:L1:255:ILE:HA	1:L1:258:THR:HG22	2.02	0.42
1:Q1:29:TYR:OH	1:IG:302:ASP:CB	2.67	0.42
1:Q1:171:MET:HE3	1:Q1:171:MET:HB3	1.88	0.42
1:R1:222:SER:HG	1:CJ:53:TYR:HD1	1.65	0.42
1:T1:279:VAL:HG22	1:T1:318:THR:HA	2.02	0.42
1:Y1:99:MET:SD	1:I6:128:LYS:HB2	2.60	0.42
1:a1:255:ILE:HA	1:a1:258:THR:HG22	2.02	0.42
1:f1:49:PHE:HD1	1:B3:22:LEU:CD1	2.32	0.42
1:g1:144:THR:HG22	1:g1:146:ALA:H	1.84	0.42
1:h1:22:LEU:CD1	1:QG:49:PHE:HD1	2.32	0.42
2:j1:45:ILE:CG1	2:j1:46:HIS:H	2.23	0.42
3:A2:271:ARG:HA	3:A2:274:THR:HG22	2.01	0.42
4:B2:91:VAL:HG23	4:B2:94:PHE:HE1	1.84	0.42
5:D2:33:ASP:HA	3:AB:25:ASN:OD1	2.19	0.42
5:E2:64:TRP:CE3	4:BF:30:LEU:CG	3.02	0.42
5:N2:233:GLU:H	5:CB:265:LEU:CD2	2.31	0.42
1:C3:29:TYR:OH	1:QG:302:ASP:CB	2.67	0.42
1:D3:255:ILE:HA	1:D3:258:THR:HG22	2.02	0.42
1:I3:318:THR:O	1:I3:318:THR:CG2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L3:237:ASP:HB2	1:L3:347:ILE:HG22	2.01	0.42
2:P3:11:MET:SD	1:IG:372:VAL:HG12	2.60	0.42
1:Q3:45:MET:HG2	1:Z4:14:VAL:HA	2.01	0.42
1:S3:14:VAL:HA	1:CR:45:MET:HG2	2.01	0.42
1:Y3:104:ASN:ND2	1:Y3:106:GLU:OE2	2.53	0.42
1:b3:44:THR:OG1	1:b3:45:MET:N	2.51	0.42
1:C4:302:ASP:CB	1:aE:29:TYR:OH	2.67	0.42
1:B4:22:LEU:CD1	1:aE:49:PHE:HD1	2.32	0.42
1:D4:237:ASP:HB2	1:D4:347:ILE:HG22	2.01	0.42
1:I4:302:ASP:CB	1:QL:29:TYR:OH	2.67	0.42
1:I4:372:VAL:HG12	2:X8:11:MET:SD	2.60	0.42
1:L4:104:ASN:ND2	1:L4:106:GLU:OE2	2.53	0.42
1:L4:237:ASP:HB2	1:L4:347:ILE:HG22	2.01	0.42
1:Q4:25:PHE:O	1:ZR:101:LEU:N	2.49	0.42
1:Q4:29:TYR:OH	1:IL:302:ASP:CB	2.67	0.42
1:Q4:318:THR:O	1:Q4:318:THR:CG2	2.67	0.42
1:R4:226:ILE:HG22	1:g8:299:ALA:HB1	2.02	0.42
1:T4:153:LEU:HB3	2:GS:2:TYR:CE2	2.54	0.42
1:T4:164:ASN:HD21	2:V4:25:GLU:H	1.66	0.42
2:U4:6:ASN:N	1:BS:153:LEU:HD12	2.34	0.42
1:X4:299:ALA:HB1	1:Z8:226:ILE:HG22	2.02	0.42
1:Y4:55:PHE:HA	1:Y4:56:PRO:HD3	1.90	0.42
1:f4:314:GLY:HA3	1:gG:31:LYS:CE	2.49	0.42
1:g4:118:THR:OG1	1:CD:53:TYR:HB3	2.19	0.42
1:g4:174:MET:HA	1:CD:33:TRP:CE2	2.54	0.42
1:i4:26:ASN:ND2	1:LD:102:SER:HB3	2.31	0.42
3:A5:309:SER:HB3	3:AI:303:TYR:O	2.19	0.42
5:E5:55:LEU:HD21	5:EN:20:GLU:HB3	2.00	0.42
1:A6:131:PHE:HB3	1:A6:159:LYS:HE3	2.01	0.42
1:D6:255:ILE:HA	1:D6:258:THR:HG22	2.02	0.42
1:L6:164:ASN:HD21	2:O6:25:GLU:H	1.66	0.42
1:Q6:57:LYS:HG3	1:CJ:143:GLN:HE22	1.65	0.42
1:Q6:82:ILE:HG12	1:CS:144:THR:C	2.44	0.42
1:S6:13:LEU:C	1:CS:45:MET:CG	2.70	0.42
1:T6:164:ASN:HD21	2:W6:25:GLU:H	1.66	0.42
1:Z6:99:MET:SD	1:KE:128:LYS:HB2	2.60	0.42
1:h6:188:VAL:HG12	1:h6:392:LEU:HD23	2.00	0.42
1:j6:237:ASP:HB2	1:j6:347:ILE:HG22	2.01	0.42
1:C7:177:ASP:OD2	1:DP:33:TRP:CZ2	2.72	0.42
1:A7:362:PRO:HA	1:A7:363:PRO:HD3	1.84	0.42
1:D7:255:ILE:HA	1:D7:258:THR:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I7:12:LEU:HD21	1:I7:44:THR:HG22	2.01	0.42
1:I7:299:ALA:HB1	1:cQ:226:ILE:HG22	2.02	0.42
1:I7:318:THR:O	1:I7:318:THR:CG2	2.67	0.42
1:K7:22:LEU:CD1	1:CQ:49:PHE:HD1	2.32	0.42
1:Q7:29:TYR:OH	1:YL:302:ASP:CB	2.67	0.42
1:Q7:302:ASP:CB	1:QR:29:TYR:OH	2.67	0.42
1:S7:50:VAL:HG23	1:QR:137:ASP:HB3	2.01	0.42
2:X7:11:MET:SD	1:Y7:372:VAL:HG12	2.60	0.42
1:Y7:45:MET:HG2	1:SQ:14:VAL:HA	2.02	0.42
1:Z7:71:ARG:H	2:d7:26:LEU:HD12	1.83	0.42
1:b7:264:ILE:H	1:b7:264:ILE:HG13	1.66	0.42
1:h7:39:TRP:O	1:j7:222:SER:OG	2.32	0.42
1:B8:50:VAL:HG23	1:AE:137:ASP:HB3	2.01	0.42
1:J8:55:PHE:O	1:J8:57:LYS:NZ	2.46	0.42
1:L8:172:ARG:NH1	1:L8:277:GLY:H	2.16	0.42
1:T8:237:ASP:HB2	1:T8:347:ILE:HG22	2.01	0.42
1:T8:255:ILE:HA	1:T8:258:THR:HG22	2.02	0.42
3:A9:155:GLU:H	1:AK:145:LEU:HD21	1.83	0.42
5:D9:9:LYS:HA	5:D9:9:LYS:HD3	1.70	0.42
5:C9:158:GLU:OE2	5:O9:433:HIS:HD2	2.02	0.42
3:AA:311:ILE:CD1	3:AC:258:LYS:CE	2.98	0.42
4:BA:32:PHE:CE1	5:FH:51:ARG:HG2	2.54	0.42
3:AB:303:TYR:O	3:AF:309:SER:HB3	2.19	0.42
3:AC:25:ASN:ND2	5:DH:34:ASP:N	2.67	0.42
5:EC:40:THR:CG2	5:DH:45:TYR:OH	2.64	0.42
1:CD:179:SER:HA	1:CD:183:LEU:HD21	2.00	0.42
1:KD:362:PRO:HA	1:KD:363:PRO:HD3	1.85	0.42
1:LD:243:THR:HG22	1:LD:245:SER:H	1.84	0.42
1:DE:164:ASN:HD21	2:GE:25:GLU:H	1.66	0.42
2:GE:11:MET:CG	1:BP:133:LEU:HG	2.49	0.42
1:BE:82:ILE:HD12	1:CP:139:ARG:HA	2.01	0.42
1:KE:318:THR:O	1:KE:318:THR:CG2	2.67	0.42
1:SE:128:LYS:HB2	1:JQ:99:MET:SD	2.60	0.42
1:VE:237:ASP:HB2	1:VE:347:ILE:HG22	2.01	0.42
1:aE:206:LEU:HD12	1:cE:244:ASP:CG	2.45	0.42
1:bE:347:ILE:HD12	1:bE:347:ILE:HA	1.92	0.42
5:DF:33:ASP:HA	3:AM:25:ASN:OD1	2.20	0.42
1:AG:64:ILE:HD11	1:BG:88:GLU:CD	2.44	0.42
1:AG:111:ARG:HG2	1:YL:132:THR:HG21	1.23	0.42
1:JG:213:ALA:HB1	1:JG:228:GLN:HB2	2.00	0.42
1:LG:104:ASN:ND2	1:LG:106:GLU:OE2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZG:64:ILE:HD11	1:aG:88:GLU:CD	2.44	0.42
1:aG:372:VAL:HG21	2:EK:10:MET:HB3	2.02	0.42
1:bG:107:LEU:HD21	1:BK:369:PHE:HZ	1.78	0.42
1:bG:255:ILE:HA	1:bG:258:THR:HG22	2.02	0.42
1:gG:318:THR:O	1:gG:318:THR:CG2	2.67	0.42
3:AI:309:SER:HB3	3:AO:303:TYR:O	2.19	0.42
5:EI:140:ASP:N	5:CI:139:LYS:CA	2.81	0.42
1:KJ:57:LYS:HD2	1:LP:58:ILE:CD1	2.48	0.42
1:AK:158:LYS:HZ1	1:KK:92:MET:C	2.28	0.42
1:CK:53:TYR:HH	1:hR:223:GLY:HA2	1.85	0.42
1:CK:153:LEU:HD12	2:kR:6:ASN:N	2.34	0.42
1:CK:285:GLU:HB3	1:CK:313:VAL:HG13	2.02	0.42
1:DK:357:LYS:HG2	2:FK:20:LEU:HD23	2.02	0.42
1:CL:12:LEU:HD21	1:CL:44:THR:HG22	2.01	0.42
1:JL:144:THR:HG22	1:JL:146:ALA:H	1.84	0.42
1:LL:82:ILE:HA	1:LL:82:ILE:HD13	1.85	0.42
1:YL:360:LEU:HD13	1:YL:360:LEU:HA	1.88	0.42
5:EM:136:SER:O	5:EM:140:ASP:N	2.50	0.42
5:NN:433:HIS:HD2	5:ON:158:GLU:OE2	2.02	0.42
3:AO:65:ASN:CG	1:IS:146:ALA:HB3	2.44	0.42
3:AO:157:ILE:HG22	1:IS:145:LEU:CD2	2.47	0.42
5:EO:140:ASP:N	5:CO:139:LYS:CA	2.81	0.42
1:AP:61:THR:O	1:AP:62:LEU:C	2.62	0.42
1:BP:261:ILE:HG21	1:BP:265:ASP:OD2	2.15	0.42
1:DP:357:LYS:HG2	2:FP:20:LEU:HD23	2.02	0.42
1:LP:268:ASP:OD1	1:LP:268:ASP:N	2.51	0.42
1:BQ:22:LEU:CD1	1:gR:49:PHE:HD1	2.32	0.42
1:JQ:64:ILE:HD11	1:KQ:88:GLU:CD	2.44	0.42
1:LQ:255:ILE:HA	1:LQ:258:THR:HG22	2.02	0.42
1:QQ:209:GLN:HE22	1:QQ:235:LEU:HB2	1.84	0.42
1:QQ:321:VAL:HG22	1:QQ:327:PHE:CE2	2.51	0.42
1:TQ:164:ASN:HD21	2:WQ:25:GLU:H	1.66	0.42
1:TQ:179:SER:HB2	1:TQ:392:LEU:HG	2.02	0.42
2:XQ:2:TYR:CB	1:QR:150:ASN:OD1	2.53	0.42
1:YQ:237:ASP:HB2	1:YQ:347:ILE:HG22	2.01	0.42
1:bQ:318:THR:O	1:bQ:318:THR:CG2	2.67	0.42
1:cQ:131:PHE:HB3	1:cQ:159:LYS:HE3	2.01	0.42
1:CR:206:LEU:HD12	1:BR:244:ASP:CG	2.45	0.42
1:AR:64:ILE:HD11	1:BR:88:GLU:CD	2.44	0.42
1:DR:44:THR:OG1	1:DR:45:MET:N	2.51	0.42
2:FR:22:LYS:HA	2:FR:22:LYS:HD2	1.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MR:44:GLN:HB3	2:MR:45:ILE:H	1.63	0.42
1:TR:237:ASP:HB2	1:TR:347:ILE:HG22	2.01	0.42
1:YR:318:THR:O	1:YR:318:THR:CG2	2.67	0.42
1:ZR:71:ARG:H	2:dR:26:LEU:HD12	1.83	0.42
1:KS:16:LYS:HD2	1:KS:19:LYS:HG2	2.02	0.42
1:KS:62:LEU:HD13	2:MS:53:PHE:HE2	1.85	0.42
1:KS:355:TYR:HB3	1:KS:379:TYR:HB3	2.01	0.42
1:A1:111:ARG:HG2	1:C6:132:THR:HG21	1.23	0.42
1:A1:131:PHE:HB3	1:A1:159:LYS:HE3	2.01	0.42
1:D1:255:ILE:HA	1:D1:258:THR:HG22	2.02	0.42
1:I1:25:PHE:O	1:JQ:101:LEU:N	2.49	0.42
1:I1:29:TYR:OH	1:SE:302:ASP:CB	2.67	0.42
1:J1:240:ILE:HB	1:J1:270:VAL:HG22	2.02	0.42
1:R1:64:ILE:HD11	1:S1:88:GLU:CD	2.44	0.42
1:R1:316:VAL:HG23	1:CJ:31:LYS:NZ	2.17	0.42
1:T1:55:PHE:CD2	1:BJ:58:ILE:CD1	2.97	0.42
1:T1:366:ASN:CA	1:LJ:108:MET:SD	3.02	0.42
1:Y1:64:ILE:HD11	1:Z1:88:GLU:CD	2.44	0.42
1:a1:164:ASN:HD21	2:d1:25:GLU:H	1.66	0.42
1:f1:81:PHE:HE2	1:QG:139:ARG:HD2	1.63	0.42
1:f1:302:ASP:CB	1:QG:29:TYR:OH	2.67	0.42
1:g1:77:LYS:HB2	1:g1:353:LYS:HG2	2.02	0.42
1:i1:255:ILE:HA	1:i1:258:THR:HG22	2.02	0.42
3:A2:9:ASN:O	5:F9:28:TYR:N	2.52	0.42
4:B2:86:ILE:HD12	4:B2:86:ILE:HA	1.91	0.42
1:C3:45:MET:HG2	1:SG:14:VAL:HA	2.02	0.42
1:A3:64:ILE:HD11	1:B3:88:GLU:CD	2.44	0.42
1:A3:99:MET:SD	1:g7:128:LYS:HB2	2.60	0.42
1:D3:98:ASN:O	1:DQ:304:GLN:NE2	2.48	0.42
1:D3:104:ASN:ND2	1:D3:106:GLU:OE2	2.53	0.42
1:J3:55:PHE:HA	1:J3:56:PRO:HD3	1.91	0.42
1:J3:77:LYS:HB2	1:J3:353:LYS:HG2	2.02	0.42
1:K3:14:VAL:HA	1:I4:45:MET:HG2	2.02	0.42
1:L3:104:ASN:ND2	1:L3:106:GLU:OE2	2.53	0.42
1:Q3:128:LYS:HB2	1:J8:99:MET:SD	2.60	0.42
1:Q3:360:LEU:HD21	2:P8:22:LYS:HG2	1.95	0.42
1:R3:205:ILE:HD11	1:R3:240:ILE:HD11	2.01	0.42
1:Y3:172:ARG:NH1	1:Y3:277:GLY:H	2.16	0.42
2:Z3:44:GLN:HB3	2:Z3:45:ILE:H	1.63	0.42
1:C4:31:LYS:CE	1:CG:314:GLY:HA3	2.49	0.42
1:C4:318:THR:O	1:C4:318:THR:CG2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J4:55:PHE:HA	1:J4:56:PRO:HD3	1.90	0.42
1:K4:22:LEU:CD1	1:QL:49:PHE:HD1	2.32	0.42
2:P4:11:MET:SD	1:AE:372:VAL:HG12	2.60	0.42
2:P4:53:PHE:O	1:C8:62:LEU:CD1	2.62	0.42
1:Q4:49:PHE:HD1	1:KL:22:LEU:CD1	2.32	0.42
1:R4:239:VAL:HG21	1:R4:347:ILE:HD13	2.00	0.42
1:S4:14:VAL:HA	1:IQ:45:MET:HG2	2.02	0.42
1:X4:22:LEU:CD1	1:BR:47:GLU:OE2	2.67	0.42
1:g4:226:ILE:HG22	1:YG:299:ALA:HB1	2.02	0.42
1:h4:14:VAL:HA	1:gG:45:MET:HG2	2.02	0.42
1:h4:100:ASP:HB2	1:CD:26:ASN:C	2.43	0.42
3:A5:149:GLN:HG3	1:AJ:145:LEU:O	1.40	0.42
4:B5:149:LEU:HA	4:BN:189:ASN:O	2.19	0.42
5:N5:231:ASN:CA	5:CN:265:LEU:CD1	2.74	0.42
1:A6:77:LYS:HB2	1:A6:353:LYS:HG2	2.02	0.42
1:A6:133:LEU:HB2	2:G6:11:MET:HG2	2.00	0.42
1:A6:205:ILE:HD11	1:A6:240:ILE:HD11	2.01	0.42
1:A6:347:ILE:HD12	1:A6:347:ILE:HA	1.92	0.42
1:J6:144:THR:HG22	1:J6:146:ALA:H	1.84	0.42
1:J6:205:ILE:HD11	1:J6:240:ILE:HD11	2.01	0.42
1:K6:150:ASN:ND2	2:lG:1:MET:H3	2.18	0.42
1:K6:365:HIS:CD2	2:lG:10:MET:HG2	2.55	0.42
1:L6:104:ASN:ND2	1:L6:106:GLU:OE2	2.53	0.42
1:Q6:177:ASP:OD2	1:CS:33:TRP:HZ2	2.02	0.42
1:R6:64:ILE:HD11	1:S6:88:GLU:CD	2.44	0.42
1:T6:237:ASP:HB2	1:T6:347:ILE:HG22	2.01	0.42
1:Y6:372:VAL:HG12	2:PG:11:MET:SD	2.60	0.42
1:b6:99:MET:HE3	1:b6:99:MET:HB2	1.97	0.42
1:g6:31:LYS:CE	1:LP:314:GLY:CA	2.97	0.42
1:g6:128:LYS:HB2	1:BE:99:MET:SD	2.60	0.42
1:g6:318:THR:O	1:g6:318:THR:CG2	2.67	0.42
1:C7:29:TYR:CD2	1:LK:317:PHE:CD1	2.93	0.42
1:C7:299:ALA:HB1	1:hR:226:ILE:HG22	2.02	0.42
1:A7:99:MET:SD	1:gR:128:LYS:HB2	2.60	0.42
1:J7:188:VAL:HG12	1:J7:392:LEU:HD23	2.00	0.42
1:Q7:12:LEU:HD21	1:Q7:44:THR:HG22	2.01	0.42
1:Q7:321:VAL:HG21	1:Q7:327:PHE:HE2	1.85	0.42
1:Q7:372:VAL:HG12	2:HG:11:MET:SD	2.60	0.42
1:S7:137:ASP:OD1	1:QR:48:THR:HG22	2.17	0.42
1:a7:174:MET:HE3	1:a7:382:LYS:HB3	2.00	0.42
1:g7:49:PHE:HD1	1:CE:22:LEU:CD1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g7:302:ASP:CB	1:C8:29:TYR:OH	2.67	0.42
1:g7:314:GLY:HA3	1:C8:31:LYS:CE	2.49	0.42
1:g7:318:THR:O	1:g7:318:THR:CG2	2.67	0.42
1:h7:239:VAL:HG21	1:h7:347:ILE:HD13	2.00	0.42
2:l7:1:MET:H3	1:SG:150:ASN:HD21	1.64	0.42
1:C8:208:LEU:HD11	1:C8:391:ILE:HD13	1.45	0.42
1:A8:144:THR:HG22	1:A8:146:ALA:H	1.84	0.42
1:D8:164:ASN:HD21	2:G8:25:GLU:H	1.66	0.42
1:D8:255:ILE:HA	1:D8:258:THR:HG22	2.02	0.42
1:I8:206:LEU:HD12	1:K8:244:ASP:CG	2.45	0.42
1:L8:104:ASN:ND2	1:L8:106:GLU:OE2	2.53	0.42
1:Q8:318:THR:O	1:Q8:318:THR:CG2	2.67	0.42
1:R8:77:LYS:HB2	1:R8:353:LYS:HG2	2.02	0.42
1:S8:14:VAL:HA	1:IG:45:MET:HG2	2.02	0.42
1:Y8:209:GLN:HE22	1:Y8:235:LEU:HB2	1.84	0.42
1:Y8:283:THR:N	1:Y8:330:ASN:O	2.44	0.42
1:g8:318:THR:O	1:g8:318:THR:CG2	2.67	0.42
1:j8:104:ASN:ND2	1:j8:106:GLU:OE2	2.53	0.42
3:A9:33:ASN:ND2	1:AK:370:ASP:OD2	2.45	0.42
3:A9:154:ILE:CA	1:AK:139:ARG:HH21	2.13	0.42
5:N9:297:GLY:O	5:N9:320:ILE:HG22	2.20	0.42
5:CA:433:HIS:HD2	5:NA:158:GLU:OE2	2.02	0.42
5:NA:433:HIS:HD2	5:OA:158:GLU:OE2	2.02	0.42
5:OA:297:GLY:O	5:OA:320:ILE:HG22	2.20	0.42
3:AB:271:ARG:HA	3:AB:274:THR:HG22	2.01	0.42
4:BB:146:ALA:O	4:BF:192:THR:HA	2.20	0.42
4:BC:30:LEU:CG	5:EN:64:TRP:CE3	3.02	0.42
1:AD:60:GLU:HB2	1:KD:87:GLU:H	1.84	0.42
1:CD:197:LEU:HA	1:CD:200:LYS:HB2	2.01	0.42
2:ED:26:LEU:HD11	2:ED:30:MET:HB2	2.01	0.42
2:FD:16:GLU:OE1	2:FD:16:GLU:N	2.51	0.42
1:LD:55:PHE:CE2	1:KK:58:ILE:CA	3.02	0.42
1:LD:62:LEU:HD13	2:ND:53:PHE:HE2	1.85	0.42
1:LD:152:ALA:CB	2:FK:11:MET:O	2.68	0.42
2:MD:36:LYS:HE2	2:MD:36:LYS:HB3	1.86	0.42
1:DE:103:LYS:HA	1:DE:103:LYS:HD2	1.91	0.42
1:DE:351:LYS:NZ	1:FE:60:GLU:OE2	2.43	0.42
1:bE:240:ILE:HB	1:bE:270:VAL:HG22	2.02	0.42
1:dE:104:ASN:ND2	1:dE:106:GLU:OE2	2.53	0.42
5:CF:297:GLY:O	5:CF:320:ILE:HG22	2.20	0.42
1:CG:128:LYS:HB2	1:ZL:99:MET:SD	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:77:LYS:HB2	1:AG:353:LYS:HG2	2.02	0.42
1:AG:347:ILE:HD12	1:AG:347:ILE:HA	1.92	0.42
1:BG:39:TRP:O	1:RG:222:SER:OG	2.33	0.42
1:DG:172:ARG:NH1	1:DG:277:GLY:H	2.16	0.42
1:JG:240:ILE:HB	1:JG:270:VAL:HG22	2.02	0.42
1:QG:318:THR:CG2	1:QG:318:THR:O	2.67	0.42
1:TG:164:ASN:HD21	2:WG:25:GLU:H	1.66	0.42
1:TG:237:ASP:HB2	1:TG:347:ILE:HG22	2.01	0.42
1:YG:222:SER:OG	1:DK:53:TYR:CE1	2.69	0.42
1:hG:226:ILE:HG22	1:CL:299:ALA:HB1	2.02	0.42
4:BH:117:GLU:N	4:BH:220:THR:O	2.51	0.42
5:EH:20:GLU:HB3	5:EN:55:LEU:HD21	2.01	0.42
1:AJ:274:ASP:N	1:AJ:274:ASP:OD1	2.51	0.42
1:AJ:316:VAL:HG21	1:JS:32:SER:HB3	2.01	0.42
1:AJ:335:LYS:NZ	1:AJ:336:PRO:O	2.37	0.42
1:DJ:64:ILE:HG22	2:FJ:53:PHE:HB2	2.01	0.42
1:DJ:173:ALA:CB	1:LP:33:TRP:HH2	1.84	0.42
1:KJ:25:PHE:O	1:KP:101:LEU:N	2.49	0.42
1:AK:81:PHE:HD2	1:KP:139:ARG:NH1	1.72	0.42
1:BK:240:ILE:HD11	1:BK:270:VAL:HG13	2.02	0.42
2:FK:38:GLU:HG3	2:GK:43:VAL:HB	2.02	0.42
1:LK:21:ALA:HA	1:DP:123:ASN:HD21	1.83	0.42
2:MK:36:LYS:HE2	2:MK:36:LYS:HB3	1.86	0.42
1:CL:318:THR:O	1:CL:318:THR:CG2	2.67	0.42
1:AL:131:PHE:HB3	1:AL:159:LYS:HE3	2.01	0.42
1:BL:22:LEU:CD1	1:YR:49:PHE:HD1	2.32	0.42
1:IL:49:PHE:HD1	1:KQ:22:LEU:CD1	2.32	0.42
1:IL:55:PHE:HE1	1:KQ:46:PHE:HE1	1.65	0.42
1:JL:77:LYS:HB2	1:JL:353:LYS:HG2	2.02	0.42
1:TL:82:ILE:HD13	1:TL:82:ILE:HA	1.85	0.42
1:TL:279:VAL:HG22	1:TL:318:THR:HA	2.02	0.42
1:YL:318:THR:O	1:YL:318:THR:CG2	2.67	0.42
1:ZL:131:PHE:HB3	1:ZL:159:LYS:HE3	2.01	0.42
1:aL:39:TRP:O	1:RQ:222:SER:OG	2.33	0.42
3:AM:153:ASP:CA	3:AM:156:ILE:HG22	2.50	0.42
3:AM:174:LEU:HD12	3:AM:174:LEU:HA	1.87	0.42
4:BM:146:ALA:O	4:BO:192:THR:HA	2.20	0.42
4:BM:188:ASP:N	4:BM:188:ASP:OD1	2.51	0.42
5:NM:297:GLY:O	5:NM:320:ILE:HG22	2.20	0.42
5:NM:320:ILE:O	5:NM:321:ASP:HB2	2.17	0.42
5:NM:433:HIS:HD2	5:OM:158:GLU:OE2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CN:158:GLU:OE2	5:ON:433:HIS:HD2	2.02	0.42
3:AO:115:ILE:HG21	3:AO:121:ILE:HG22	2.00	0.42
3:AO:163:GLU:OE2	3:AO:241:LYS:NZ	2.43	0.42
2:FP:36:LYS:HE2	2:FP:36:LYS:HB3	1.85	0.42
1:KP:206:LEU:HD23	1:KP:209:GLN:HE21	1.85	0.42
1:KP:283:THR:OG1	1:KP:330:ASN:O	2.30	0.42
1:CQ:318:THR:O	1:CQ:318:THR:CG2	2.67	0.42
1:CQ:321:VAL:HG22	1:CQ:327:PHE:CE2	2.51	0.42
1:JQ:205:ILE:HD11	1:JQ:240:ILE:HD11	2.01	0.42
1:JQ:240:ILE:HB	1:JQ:270:VAL:HG22	2.02	0.42
1:LQ:104:ASN:ND2	1:LQ:106:GLU:OE2	2.53	0.42
1:QQ:12:LEU:HD21	1:QQ:44:THR:HG22	2.01	0.42
1:TQ:104:ASN:ND2	1:TQ:106:GLU:OE2	2.53	0.42
2:gQ:10:MET:HG2	1:iR:365:HIS:CD2	2.55	0.42
1:CR:12:LEU:HD21	1:CR:44:THR:HG22	2.01	0.42
1:AR:131:PHE:HB3	1:AR:159:LYS:HE3	2.01	0.42
1:AR:362:PRO:HA	1:AR:363:PRO:HD3	1.83	0.42
1:hR:205:ILE:HD11	1:hR:240:ILE:HD11	2.01	0.42
1:jR:104:ASN:ND2	1:jR:106:GLU:OE2	2.53	0.42
1:jR:164:ASN:HD21	2:lR:25:GLU:H	1.66	0.42
1:AS:300:TYR:HE1	1:BS:228:GLN:HB2	1.82	0.42
2:ES:38:GLU:HG3	2:FS:43:VAL:HB	2.02	0.42
1:JS:182:GLN:HB3	1:JS:220:ARG:NH1	2.35	0.42
1:A1:77:LYS:HB2	1:A1:353:LYS:HG2	2.02	0.42
1:B1:62:LEU:HD23	1:B1:62:LEU:HA	1.91	0.42
1:B1:362:PRO:HA	1:B1:363:PRO:HD3	1.80	0.42
1:I1:45:MET:HG2	1:UE:14:VAL:HA	2.01	0.42
1:I1:259:PHE:CE1	1:JG:259:PHE:CD1	2.98	0.42
1:J1:144:THR:HG22	1:J1:146:ALA:H	1.84	0.42
1:Q1:49:PHE:HD1	1:KG:22:LEU:CD1	2.32	0.42
1:T1:26:ASN:C	1:LJ:100:ASP:OD2	2.40	0.42
1:X1:299:ALA:HB1	1:J6:226:ILE:HG22	2.02	0.42
1:Z1:14:VAL:HA	1:IR:45:MET:HG2	2.02	0.42
1:f1:209:GLN:HE22	1:f1:235:LEU:HB2	1.84	0.42
2:m1:2:TYR:CB	1:gR:150:ASN:OD1	2.53	0.42
5:C2:297:GLY:O	5:C2:320:ILE:HG22	2.20	0.42
5:N2:297:GLY:O	5:N2:320:ILE:HG22	2.20	0.42
5:N2:433:HIS:HD2	5:O2:158:GLU:OE2	2.02	0.42
1:C3:25:PHE:O	1:A4:101:LEU:N	2.49	0.42
1:A3:101:LEU:N	1:C8:25:PHE:O	2.49	0.42
1:A3:205:ILE:HD11	1:A3:240:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:240:ILE:HB	1:A3:270:VAL:HG22	2.02	0.42
1:A3:347:ILE:HD12	1:A3:347:ILE:HA	1.92	0.42
1:J3:89:TYR:CZ	1:Q8:63:LEU:HD13	2.51	0.42
1:R3:99:MET:SD	1:I8:128:LYS:HB2	2.60	0.42
1:b3:172:ARG:NH1	1:b3:277:GLY:H	2.16	0.42
1:A4:240:ILE:HB	1:A4:270:VAL:HG22	2.02	0.42
1:D4:104:ASN:ND2	1:D4:106:GLU:OE2	2.53	0.42
1:J4:240:ILE:HB	1:J4:270:VAL:HG22	2.02	0.42
1:K4:50:VAL:HG23	1:QL:137:ASP:HB3	2.01	0.42
1:L4:44:THR:OG1	1:L4:45:MET:N	2.51	0.42
1:L4:255:ILE:HA	1:L4:258:THR:HG22	2.02	0.42
1:R4:174:MET:HA	1:BS:33:TRP:CE2	2.54	0.42
1:S4:22:LEU:CD1	1:IQ:49:PHE:HD1	2.32	0.42
1:S4:365:HIS:CD2	2:XE:10:MET:HG2	2.55	0.42
1:T4:237:ASP:HB2	1:T4:347:ILE:HG22	2.01	0.42
1:Y4:64:ILE:HD11	1:Z4:88:GLU:CD	2.44	0.42
1:g4:377:HIS:NE2	1:CD:367:PRO:O	2.53	0.42
1:i4:58:ILE:HD11	1:BD:55:PHE:CD2	2.54	0.42
3:A5:115:ILE:HG21	3:A5:121:ILE:HG22	2.00	0.42
3:A5:303:TYR:O	3:AN:309:SER:HB3	2.19	0.42
1:A6:264:ILE:H	1:A6:264:ILE:HG13	1.76	0.42
1:I6:22:LEU:CD1	1:aR:47:GLU:OE2	2.67	0.42
1:I6:29:TYR:OH	1:YR:302:ASP:CB	2.67	0.42
1:J6:131:PHE:HB3	1:J6:159:LYS:HE3	2.01	0.42
2:N6:10:MET:HG2	1:K8:365:HIS:CD2	2.55	0.42
1:Z6:205:ILE:HD11	1:Z6:240:ILE:HD11	2.01	0.42
1:Z6:240:ILE:HB	1:Z6:270:VAL:HG22	2.02	0.42
1:a6:22:LEU:CD1	1:SE:49:PHE:HD1	2.32	0.42
1:b6:164:ASN:HD21	2:e6:25:GLU:H	1.66	0.42
1:b6:304:GLN:NE2	1:b7:98:ASN:O	2.48	0.42
1:g6:367:PRO:HD2	1:LP:375:TRP:CH2	2.55	0.42
1:g6:375:TRP:CE3	1:DJ:367:PRO:CG	2.94	0.42
1:A7:144:THR:HG22	1:A7:146:ALA:H	1.84	0.42
1:J7:131:PHE:HB3	1:J7:159:LYS:HE3	2.01	0.42
1:Q7:171:MET:HE3	1:Q7:171:MET:HB3	1.88	0.42
1:R7:55:PHE:HA	1:R7:56:PRO:HD3	1.90	0.42
1:R7:77:LYS:HB2	1:R7:353:LYS:HG2	2.02	0.42
1:R7:205:ILE:HD11	1:R7:240:ILE:HD11	2.01	0.42
1:Y7:31:LYS:CE	1:QQ:314:GLY:HA3	2.49	0.42
1:Z7:55:PHE:O	1:Z7:57:LYS:NZ	2.46	0.42
2:f7:11:MET:SD	1:I8:372:VAL:HG12	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A8:240:ILE:HB	1:A8:270:VAL:HG22	2.02	0.42
1:J8:85:TYR:CD1	1:J8:122:GLY:HA2	2.53	0.42
1:T8:104:ASN:ND2	1:T8:106:GLU:OE2	2.53	0.42
1:a8:14:VAL:HA	1:bQ:45:MET:HG2	2.02	0.42
2:c8:44:GLN:HB3	2:c8:45:ILE:H	1.63	0.42
1:h8:240:ILE:HB	1:h8:270:VAL:HG22	2.02	0.42
3:A9:271:ARG:HA	3:A9:274:THR:HG22	2.01	0.42
5:EA:136:SER:O	5:EA:140:ASP:N	2.50	0.42
5:DB:38:TYR:HH	3:AF:17:SER:C	2.28	0.42
5:DB:104:ILE:O	5:DB:108:GLU:CB	2.68	0.42
5:DB:105:ILE:HG22	5:EB:104:ILE:HD11	2.02	0.42
5:FB:132:ASN:C	5:NB:139:LYS:CE	2.92	0.42
5:CC:297:GLY:O	5:CC:320:ILE:HG22	2.20	0.42
1:AD:71:ARG:H	2:MD:26:LEU:HD13	1.85	0.42
1:CD:164:ASN:OD1	2:HD:24:THR:OG1	2.36	0.42
1:DD:120:LEU:HB3	1:KS:39:TRP:HB2	1.99	0.42
2:FD:11:MET:O	1:KS:152:ALA:CB	2.68	0.42
1:KD:143:GLN:C	1:IS:82:ILE:CG2	2.93	0.42
1:KD:143:GLN:OE1	1:KS:57:LYS:HD2	1.85	0.42
1:KD:285:GLU:HG2	1:KD:312:PRO:HA	2.02	0.42
1:LD:27:HIS:CD2	1:DK:312:PRO:HG3	2.54	0.42
1:LD:126:VAL:CG1	1:YG:25:PHE:HE1	2.33	0.42
1:LD:310:THR:O	1:YG:27:HIS:ND1	2.40	0.42
1:BE:205:ILE:HD11	1:BE:240:ILE:HD11	2.01	0.42
1:BE:240:ILE:HB	1:BE:270:VAL:HG22	2.02	0.42
2:HE:8:ARG:HH22	1:CP:131:PHE:HE2	1.67	0.42
2:JE:2:TYR:HE2	1:DJ:157:LYS:HE3	1.61	0.42
1:LE:188:VAL:HG12	1:LE:392:LEU:HD23	2.00	0.42
1:ME:22:LEU:CD1	1:QQ:49:PHE:HD1	2.32	0.42
1:SE:318:THR:O	1:SE:318:THR:CG2	2.67	0.42
1:TE:347:ILE:HD12	1:TE:347:ILE:HA	1.92	0.42
1:aE:128:LYS:HB2	1:AR:99:MET:SD	2.60	0.42
1:bE:205:ILE:HD11	1:bE:240:ILE:HD11	2.01	0.42
3:AF:258:LYS:CE	3:AM:311:ILE:CD1	2.98	0.42
5:NF:297:GLY:O	5:NF:320:ILE:HG22	2.20	0.42
1:DG:104:ASN:ND2	1:DG:106:GLU:OE2	2.53	0.42
2:FG:36:LYS:HE2	2:FG:36:LYS:HB3	1.94	0.42
1:LG:255:ILE:HA	1:LG:258:THR:HG22	2.02	0.42
1:QG:25:PHE:O	1:AQ:101:LEU:N	2.49	0.42
1:QG:209:GLN:HE22	1:QG:235:LEU:HB2	1.84	0.42
1:aG:45:MET:HB2	1:DK:16:LYS:HB3	1.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BI:30:LEU:CG	5:EM:64:TRP:CE3	3.02	0.42
4:BI:189:ASN:O	4:BO:149:LEU:HA	2.19	0.42
1:BJ:150:ASN:HD21	2:iL:2:TYR:H	1.68	0.42
1:KJ:105:GLU:CD	1:CS:109:LEU:CB	2.65	0.42
1:KJ:182:GLN:HB3	1:KJ:220:ARG:NH1	2.35	0.42
1:KJ:357:LYS:HE3	3:AN:67:ASN:N	2.34	0.42
1:LJ:152:ALA:CB	2:ES:11:MET:O	2.68	0.42
1:LJ:243:THR:HG22	1:LJ:245:SER:H	1.84	0.42
1:AK:61:THR:O	1:AK:62:LEU:C	2.62	0.42
1:BK:354:ARG:NH2	2:EK:24:THR:OG1	2.53	0.42
1:CK:53:TYR:HB3	1:hR:118:THR:OG1	2.19	0.42
1:LK:216:ASN:HD22	1:LK:229:TYR:HD2	1.66	0.42
1:IL:318:THR:O	1:IL:318:THR:CG2	2.67	0.42
1:JL:41:ASN:ND2	1:JL:54:LEU:O	2.46	0.42
1:JL:205:ILE:HD11	1:JL:240:ILE:HD11	2.01	0.42
1:LL:255:ILE:HA	1:LL:258:THR:HG22	2.02	0.42
1:YL:321:VAL:HG21	1:YL:327:PHE:HE2	1.85	0.42
1:ZL:240:ILE:HB	1:ZL:270:VAL:HG22	2.02	0.42
1:aL:365:HIS:CD2	2:VQ:10:MET:HG2	2.55	0.42
3:AM:112:ILE:CG2	2:LS:17:ASP:CG	2.93	0.42
4:BO:117:GLU:N	4:BO:220:THR:O	2.51	0.42
5:DO:9:LYS:HD3	5:DO:9:LYS:HA	1.70	0.42
5:DO:80:LEU:HD21	5:FO:84:PHE:CD2	2.55	0.42
2:FP:38:GLU:HG3	2:GP:43:VAL:HB	2.02	0.42
1:LP:243:THR:HG22	1:LP:245:SER:H	1.84	0.42
1:CQ:81:PHE:HD2	1:gR:139:ARG:HD2	1.25	0.42
1:CQ:209:GLN:HE22	1:CQ:235:LEU:HB2	1.84	0.42
1:AQ:71:ARG:H	2:FQ:26:LEU:HD12	1.83	0.42
1:BQ:14:VAL:HA	1:gR:45:MET:HG2	2.02	0.42
1:JQ:77:LYS:HB2	1:JQ:353:LYS:HG2	2.02	0.42
1:LQ:98:ASN:O	1:bR:304:GLN:NE2	2.48	0.42
1:RQ:101:LEU:N	1:QR:25:PHE:O	2.49	0.42
1:RQ:131:PHE:HB3	1:RQ:159:LYS:HE3	2.01	0.42
1:SQ:39:TRP:O	1:JR:222:SER:OG	2.33	0.42
1:TQ:279:VAL:HG22	1:TQ:318:THR:HA	2.02	0.42
1:CR:318:THR:O	1:CR:318:THR:CG2	2.67	0.42
1:IR:206:LEU:HD12	1:KR:244:ASP:CG	2.45	0.42
1:LR:237:ASP:HB2	1:LR:347:ILE:HG22	2.01	0.42
1:QR:204:ALA:C	1:QR:205:ILE:O	2.61	0.42
1:TR:104:ASN:ND2	1:TR:106:GLU:OE2	2.53	0.42
1:YR:12:LEU:HD21	1:YR:44:THR:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZR:77:LYS:HB2	1:ZR:353:LYS:HG2	2.02	0.42
1:hR:131:PHE:HB3	1:hR:159:LYS:HE3	2.01	0.42
1:hR:144:THR:HG22	1:hR:146:ALA:H	1.84	0.42
1:AS:354:ARG:NH2	2:DS:24:THR:OG1	2.53	0.42
1:D1:164:ASN:HD21	2:G1:25:GLU:H	1.66	0.42
1:I1:22:LEU:CD1	1:UE:47:GLU:OE2	2.67	0.42
1:I1:62:LEU:CD1	2:PG:53:PHE:O	2.62	0.42
1:I1:372:VAL:HG12	2:PQ:11:MET:SD	2.60	0.42
1:K1:14:VAL:HA	1:Y6:45:MET:HG2	2.01	0.42
1:K1:365:HIS:CD2	2:PE:10:MET:HG2	2.55	0.42
1:Q1:45:MET:HG2	1:KG:14:VAL:HA	2.02	0.42
1:Q1:137:ASP:HB3	1:KG:50:VAL:HG23	2.01	0.42
1:Q1:206:LEU:HD12	1:S1:244:ASP:CG	2.45	0.42
1:T1:104:ASN:ND2	1:T1:106:GLU:OE2	2.53	0.42
1:T1:136:ASN:C	1:CJ:81:PHE:HZ	2.28	0.42
1:X1:372:VAL:HG12	2:X3:11:MET:SD	2.60	0.42
1:f1:318:THR:O	1:f1:318:THR:CG2	2.67	0.42
1:g1:205:ILE:HD11	1:g1:240:ILE:HD11	2.01	0.42
3:A2:25:ASN:ND2	5:D9:34:ASP:N	2.67	0.42
3:A2:209:MET:HA	4:BA:250:ILE:CD1	2.33	0.42
3:A2:288:ILE:HD12	3:A2:288:ILE:HA	1.96	0.42
3:A2:311:ILE:CD1	3:A9:258:LYS:CE	2.98	0.42
4:B2:32:PHE:CE1	5:FA:51:ARG:HG2	2.54	0.42
5:E2:107:ASP:HB3	5:E2:108:GLU:H	1.63	0.42
1:A3:77:LYS:HB2	1:A3:353:LYS:HG2	2.02	0.42
1:A3:131:PHE:HB3	1:A3:159:LYS:HE3	2.01	0.42
2:F3:10:MET:HG2	1:CE:365:HIS:CD2	2.55	0.42
1:J3:279:VAL:HG13	1:J3:318:THR:HA	2.02	0.42
1:Q3:184:SER:HB2	1:Q3:219:HIS:CE1	2.55	0.42
1:Q3:321:VAL:HG21	1:Q3:327:PHE:HE2	1.85	0.42
1:R3:271:ILE:HG22	2:X3:45:ILE:HD11	2.02	0.42
1:R3:383:ALA:HB2	1:KR:34:THR:HB	2.02	0.42
1:S3:39:TRP:O	1:bE:222:SER:OG	2.33	0.42
1:T3:237:ASP:HB2	1:T3:347:ILE:HG22	2.01	0.42
1:T3:279:VAL:HG22	1:T3:318:THR:HA	2.02	0.42
1:Y3:99:MET:HE3	1:Y3:99:MET:HB2	1.97	0.42
2:a3:1:MET:H3	1:BK:150:ASN:CG	2.26	0.42
2:a3:2:TYR:H	1:BK:150:ASN:HD21	1.68	0.42
1:I4:98:ASN:ND2	1:I4:99:MET:N	2.67	0.42
1:I4:128:LYS:HB2	1:A8:99:MET:SD	2.60	0.42
1:I4:209:GLN:HE22	1:I4:235:LEU:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K4:14:VAL:HA	1:QL:45:MET:HG2	2.02	0.42
1:K4:34:THR:HB	1:RR:383:ALA:HB2	2.02	0.42
1:L4:279:VAL:HG22	1:L4:318:THR:HA	2.02	0.42
1:R4:93:ASP:CG	1:g8:158:LYS:HZ1	2.25	0.42
1:R4:377:HIS:NE2	1:BS:367:PRO:O	2.53	0.42
1:T4:104:ASN:ND2	1:T4:106:GLU:OE2	2.53	0.42
1:T4:265:ASP:OD1	1:T4:265:ASP:N	2.48	0.42
2:U4:11:MET:HG3	1:BS:133:LEU:HD22	1.84	0.42
1:Z4:365:HIS:CD2	2:N8:10:MET:HG2	2.55	0.42
1:f4:14:VAL:HG23	1:B6:14:VAL:HG23	1.97	0.42
1:f4:184:SER:HB2	1:f4:219:HIS:CE1	2.55	0.42
1:f4:209:GLN:HE22	1:f4:235:LEU:HB2	1.84	0.42
1:g4:98:ASN:HD22	1:DK:30:SER:CB	2.31	0.42
1:i4:237:ASP:HB2	1:i4:347:ILE:HG22	2.01	0.42
2:j4:8:ARG:HH22	1:CD:131:PHE:HE2	1.67	0.42
2:j4:11:MET:CB	1:CD:372:VAL:HG11	2.33	0.42
3:A5:114:PHE:HE2	2:MJ:21:ASN:ND2	2.18	0.42
5:D5:33:ASP:HA	3:AN:25:ASN:OD1	2.20	0.42
5:F5:31:PHE:CZ	5:FI:46:TYR:HB3	2.52	0.42
1:D6:104:ASN:ND2	1:D6:106:GLU:OE2	2.53	0.42
1:D6:164:ASN:HD21	2:G6:25:GLU:H	1.66	0.42
1:I6:45:MET:HG2	1:aR:14:VAL:HA	2.02	0.42
1:Q6:30:SER:O	1:LJ:316:VAL:N	2.52	0.42
1:Q6:206:LEU:HD12	1:S6:244:ASP:CG	2.45	0.42
1:R6:383:ALA:HB2	1:KG:34:THR:HB	2.02	0.42
1:T6:104:ASN:ND2	1:T6:106:GLU:OE2	2.53	0.42
1:a6:365:HIS:CD2	2:NQ:10:MET:HG2	2.55	0.42
1:b6:104:ASN:ND2	1:b6:106:GLU:OE2	2.53	0.42
2:c6:45:ILE:HG13	2:c6:46:HIS:H	1.66	0.42
2:d6:10:MET:HG2	1:a7:365:HIS:CD2	2.55	0.42
2:l6:10:MET:HG2	1:B8:365:HIS:CD2	2.55	0.42
1:C7:367:PRO:HD2	1:LK:375:TRP:CH2	2.55	0.42
1:B7:47:GLU:CB	1:DP:20:SER:CB	2.89	0.42
1:D7:164:ASN:HD21	2:G7:25:GLU:H	1.66	0.42
1:J7:89:TYR:HE2	1:bQ:63:LEU:HD13	1.71	0.42
1:S7:362:PRO:HA	1:S7:363:PRO:HD3	1.79	0.42
2:U7:45:ILE:HG13	2:U7:46:HIS:HB3	1.99	0.42
1:Y7:12:LEU:HD21	1:Y7:44:THR:HG22	2.01	0.42
1:Z7:64:ILE:HD11	1:a7:88:GLU:CD	2.44	0.42
1:a7:14:VAL:HA	1:KE:45:MET:HG2	2.02	0.42
1:i7:14:VAL:HA	1:C8:45:MET:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l7:10:MET:HG2	1:SG:365:HIS:CD2	2.55	0.42
1:A8:77:LYS:HB2	1:A8:353:LYS:HG2	2.02	0.42
1:R8:55:PHE:HA	1:R8:56:PRO:HD3	1.91	0.42
1:R8:279:VAL:HG13	1:R8:318:THR:HA	2.02	0.42
1:Y8:184:SER:HB2	1:Y8:219:HIS:CE1	2.55	0.42
1:i8:29:TYR:HB3	1:BD:315:ALA:HB1	2.00	0.42
1:i8:372:VAL:HG21	2:ED:10:MET:HB3	2.02	0.42
5:F9:132:ASN:C	5:N9:139:LYS:CE	2.92	0.42
3:AA:37:GLU:HG3	3:AC:150:TYR:CD2	2.36	0.42
3:AA:37:GLU:CG	3:AC:150:TYR:HD2	2.25	0.42
5:EA:14:ILE:HD13	5:EC:62:ARG:HE	1.85	0.42
3:AC:36:LEU:HB2	1:AP:145:LEU:HB2	1.67	0.42
3:AC:309:SER:HB3	3:AH:303:TYR:O	2.19	0.42
4:BC:188:ASP:N	4:BC:188:ASP:OD1	2.51	0.42
5:DC:80:LEU:HD21	5:FC:84:PHE:CD2	2.55	0.42
1:DD:81:PHE:O	1:KS:139:ARG:HB3	2.19	0.42
1:LD:118:THR:CG2	1:YG:54:LEU:HD23	2.43	0.42
1:LD:268:ASP:N	1:LD:268:ASP:OD1	2.51	0.42
1:BE:39:TRP:O	1:FE:222:SER:OG	2.32	0.42
1:FE:30:SER:HA	1:CP:315:ALA:CB	2.23	0.42
1:FE:99:MET:HE3	1:FE:99:MET:HB2	1.97	0.42
1:FE:104:ASN:ND2	1:FE:106:GLU:OE2	2.53	0.42
1:ME:47:GLU:OE2	1:QQ:22:LEU:CD1	2.67	0.42
1:SE:360:LEU:HD13	1:SE:360:LEU:HA	1.88	0.42
1:TE:99:MET:SD	1:IQ:128:LYS:HB2	2.60	0.42
1:TE:239:VAL:HG21	1:TE:347:ILE:HD13	2.00	0.42
1:aE:302:ASP:CB	1:CG:29:TYR:OH	2.67	0.42
1:bE:77:LYS:HB2	1:bE:353:LYS:HG2	2.02	0.42
1:cE:34:THR:HB	1:ZL:383:ALA:HB2	2.02	0.42
1:CG:206:LEU:HD12	1:BG:244:ASP:CG	2.45	0.42
1:AG:383:ALA:HB2	1:SR:34:THR:HB	2.02	0.42
1:IG:354:ARG:HH11	1:IG:354:ARG:HD3	1.74	0.42
1:JG:64:ILE:HD11	1:KG:88:GLU:CD	2.44	0.42
1:JG:144:THR:HG22	1:JG:146:ALA:H	1.84	0.42
1:LG:44:THR:OG1	1:LG:45:MET:N	2.51	0.42
1:RG:239:VAL:HG21	1:RG:347:ILE:HD13	2.00	0.42
1:YG:98:ASN:ND2	1:YG:99:MET:N	2.67	0.42
1:ZG:77:LYS:HB2	1:ZG:353:LYS:HG2	2.02	0.42
2:nG:11:MET:HG3	1:YR:372:VAL:CG1	2.44	0.42
3:AH:17:SER:C	5:DN:38:TYR:HH	2.27	0.42
3:AH:311:ILE:CD1	3:AN:258:LYS:CE	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BH:141:THR:HG1	4:BH:196:SER:HG	1.67	0.42
5:DH:80:LEU:HD21	5:FH:84:PHE:CD2	2.55	0.42
5:DH:105:ILE:HG22	5:EH:104:ILE:HD11	2.02	0.42
5:NH:297:GLY:O	5:NH:320:ILE:HG22	2.20	0.42
5:DI:132:ASN:HA	5:DI:135:LYS:HZ2	1.83	0.42
5:EI:13:ASP:N	5:EI:13:ASP:OD1	2.45	0.42
1:AJ:158:LYS:HZ1	1:KJ:92:MET:C	2.28	0.42
1:BJ:167:GLU:HA	1:BJ:170:GLU:HG3	2.01	0.42
2:FJ:38:GLU:HG3	2:GJ:43:VAL:HB	2.02	0.42
1:KJ:189:ARG:NH1	1:KJ:203:GLU:OE2	2.53	0.42
1:AK:116:MET:CG	1:KP:51:ASN:HD21	2.25	0.42
1:AK:355:TYR:CE2	1:KP:139:ARG:NH1	2.75	0.42
1:BK:346:ASP:OD1	1:BK:346:ASP:N	2.51	0.42
1:CK:82:ILE:CD1	1:jR:143:GLN:C	2.88	0.42
1:CK:158:LYS:HD3	1:LK:91:ILE:HB	2.00	0.42
1:KK:189:ARG:NH1	1:KK:203:GLU:OE2	2.53	0.42
1:DL:237:ASP:HB2	1:DL:347:ILE:HG22	2.01	0.42
1:DL:279:VAL:HG22	1:DL:318:THR:HA	2.02	0.42
1:IL:209:GLN:HE22	1:IL:235:LEU:HB2	1.84	0.42
1:IL:360:LEU:HD13	1:IL:360:LEU:HA	1.88	0.42
1:LL:104:ASN:ND2	1:LL:106:GLU:OE2	2.53	0.42
1:LL:179:SER:HB2	1:LL:392:LEU:HG	2.02	0.42
1:QL:171:MET:HE3	1:QL:171:MET:HB3	1.88	0.42
1:QL:206:LEU:HD12	1:SL:244:ASP:CG	2.45	0.42
1:TL:104:ASN:ND2	1:TL:106:GLU:OE2	2.53	0.42
1:YL:14:VAL:HG21	1:SR:14:VAL:HG23	1.96	0.42
1:YL:29:TYR:OH	1:QR:302:ASP:CB	2.67	0.42
1:YL:137:ASP:HB3	1:SR:50:VAL:HG23	2.01	0.42
3:AM:150:TYR:CD2	3:AO:37:GLU:HG3	2.36	0.42
5:EM:107:ASP:HB3	5:EM:108:GLU:H	1.63	0.42
5:DO:34:ASP:N	5:DO:34:ASP:OD1	2.44	0.42
5:DO:104:ILE:O	5:DO:108:GLU:CB	2.68	0.42
5:CO:297:GLY:O	5:CO:320:ILE:HG22	2.20	0.42
1:AP:347:ILE:HD12	1:AP:347:ILE:HA	1.92	0.42
1:CQ:12:LEU:HD21	1:CQ:44:THR:HG22	2.01	0.42
1:CQ:302:ASP:CB	1:gR:29:TYR:OH	2.67	0.42
1:CQ:372:VAL:CG1	2:iQ:11:MET:HG3	2.44	0.42
1:AQ:77:LYS:HB2	1:AQ:353:LYS:HG2	2.02	0.42
1:BQ:47:GLU:OE2	1:gR:22:LEU:CD1	2.67	0.42
1:DQ:104:ASN:ND2	1:DQ:106:GLU:OE2	2.53	0.42
1:DQ:255:ILE:HA	1:DQ:258:THR:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JQ:347:ILE:HD12	1:JQ:347:ILE:HA	1.92	0.42
1:QQ:318:THR:O	1:QQ:318:THR:CG2	2.67	0.42
1:YQ:104:ASN:ND2	1:YQ:106:GLU:OE2	2.53	0.42
1:YQ:172:ARG:NH1	1:YQ:277:GLY:H	2.16	0.42
1:AR:77:LYS:HB2	1:AR:353:LYS:HG2	2.02	0.42
1:AR:188:VAL:HG12	1:AR:392:LEU:HD23	2.00	0.42
1:IR:318:THR:O	1:IR:318:THR:CG2	2.67	0.42
1:LR:164:ASN:HD21	2:OR:25:GLU:H	1.66	0.42
1:SR:259:PHE:C	1:SR:260:GLN:CG	2.93	0.42
1:YR:209:GLN:HE22	1:YR:235:LEU:HB2	1.84	0.42
1:YR:321:VAL:HG22	1:YR:327:PHE:CE2	2.51	0.42
1:bR:255:ILE:HA	1:bR:258:THR:HG22	2.02	0.42
1:IS:218:VAL:HG21	1:IS:229:TYR:HB3	2.01	0.42
1:JS:194:LYS:HE2	1:JS:194:LYS:HB3	1.82	0.42
1:C1:360:LEU:HD13	1:C1:360:LEU:HA	1.88	0.42
1:A1:383:ALA:HB2	1:iG:34:THR:HB	2.02	0.42
1:D1:104:ASN:ND2	1:D1:106:GLU:OE2	2.53	0.42
1:I1:184:SER:HB2	1:I1:219:HIS:CE1	2.55	0.42
1:J1:77:LYS:HB2	1:J1:353:LYS:HG2	2.02	0.42
1:J1:99:MET:SD	1:IG:128:LYS:HB2	2.60	0.42
1:L1:104:ASN:ND2	1:L1:106:GLU:OE2	2.53	0.42
1:Q1:289:GLN:N	1:Q1:326:GLU:OE2	2.46	0.42
1:R1:174:MET:HA	1:CJ:33:TRP:CE2	2.54	0.42
1:R1:178:TYR:CD1	1:CJ:35:PHE:CZ	3.08	0.42
1:X1:14:VAL:HG23	1:K8:14:VAL:HG23	1.97	0.42
1:Y1:144:THR:HG22	1:Y1:146:ALA:H	1.84	0.42
1:f1:63:LEU:HD13	1:AQ:89:TYR:CZ	2.51	0.42
1:g1:41:ASN:ND2	1:g1:54:LEU:O	2.46	0.42
1:g1:55:PHE:HA	1:g1:56:PRO:HD3	1.90	0.42
1:i1:104:ASN:ND2	1:i1:106:GLU:OE2	2.53	0.42
1:i1:179:SER:HB2	1:i1:392:LEU:HG	2.02	0.42
1:i1:265:ASP:OD1	1:i1:265:ASP:N	2.48	0.42
2:k1:10:MET:HG2	1:K7:365:HIS:CD2	2.55	0.42
4:B2:117:GLU:N	4:B2:220:THR:O	2.51	0.42
4:B2:146:ALA:O	4:BB:192:THR:HA	2.20	0.42
1:C3:49:PHE:HD1	1:SG:22:LEU:CD1	2.32	0.42
1:D3:351:LYS:NZ	1:DQ:60:GLU:OE2	2.43	0.42
2:H3:11:MET:SD	1:C8:372:VAL:HG12	2.60	0.42
1:I3:63:LEU:HD13	1:R8:89:TYR:CZ	2.51	0.42
1:I3:81:PHE:HE2	1:I4:139:ARG:HD2	1.63	0.42
1:Q3:209:GLN:HE22	1:Q3:235:LEU:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a3:2:TYR:CE2	1:BK:157:LYS:CE	2.90	0.42
2:d3:11:MET:CG	1:BD:133:LEU:HG	2.49	0.42
1:C4:45:MET:HG2	1:BG:14:VAL:HA	2.02	0.42
1:C4:206:LEU:HD12	1:B4:244:ASP:CG	2.45	0.42
1:A4:99:MET:SD	1:QG:128:LYS:HB2	2.60	0.42
1:J4:64:ILE:HD11	1:K4:88:GLU:CD	2.44	0.42
1:Q4:209:GLN:HE22	1:Q4:235:LEU:HB2	1.84	0.42
1:Q4:321:VAL:HG21	1:Q4:327:PHE:HE2	1.85	0.42
1:R4:82:ILE:HD12	1:BS:139:ARG:HA	2.01	0.42
1:T4:57:LYS:HB3	1:AS:143:GLN:HG3	1.61	0.42
2:U4:8:ARG:HH22	1:BS:131:PHE:HE2	1.68	0.42
1:X4:98:ASN:ND2	1:X4:99:MET:N	2.67	0.42
1:Y4:77:LYS:HB2	1:Y4:353:LYS:HG2	2.02	0.42
1:a4:164:ASN:HD21	2:d4:25:GLU:H	1.66	0.42
1:f4:22:LEU:CD1	1:B6:47:GLU:OE2	2.67	0.42
1:f4:283:THR:N	1:f4:330:ASN:O	2.44	0.42
1:f4:300:TYR:CA	1:ZG:115:ARG:NH2	2.75	0.42
3:A5:258:LYS:CE	3:AN:311:ILE:CD1	2.98	0.42
3:A5:311:ILE:CD1	3:AI:258:LYS:CE	2.98	0.42
4:B5:32:PHE:CE1	5:FO:51:ARG:HG2	2.54	0.42
4:B5:146:ALA:O	4:BN:192:THR:HA	2.20	0.42
5:D5:104:ILE:O	5:D5:108:GLU:CB	2.68	0.42
1:I6:302:ASP:CB	1:CL:29:TYR:OH	2.67	0.42
1:L6:44:THR:OG1	1:L6:45:MET:N	2.51	0.42
1:Q6:27:HIS:N	1:AJ:100:ASP:CG	2.70	0.42
1:Q6:28:ASP:O	1:AJ:98:ASN:HB3	2.18	0.42
1:Q6:204:ALA:C	1:Q6:205:ILE:O	2.61	0.42
1:S6:259:PHE:C	1:S6:260:GLN:CG	2.93	0.42
1:S6:362:PRO:HA	1:S6:363:PRO:HD3	1.79	0.42
1:Y6:128:LYS:HB2	1:LE:99:MET:SD	2.60	0.42
1:Y6:132:THR:HG21	1:LE:111:ARG:HG2	1.23	0.42
1:h6:39:TRP:O	1:j6:222:SER:OG	2.32	0.42
1:h6:99:MET:SD	1:AE:128:LYS:HB2	2.60	0.42
2:n6:11:MET:SD	1:g7:372:VAL:HG12	2.60	0.42
1:B7:47:GLU:H	1:DP:20:SER:HB2	1.85	0.42
1:D7:104:ASN:ND2	1:D7:106:GLU:OE2	2.53	0.42
1:J7:99:MET:SD	1:bQ:128:LYS:HB2	2.60	0.42
1:K7:362:PRO:HA	1:K7:363:PRO:HD3	1.79	0.42
1:L7:279:VAL:HG22	1:L7:318:THR:HA	2.02	0.42
2:V7:10:MET:HG2	1:ME:365:HIS:CD2	2.55	0.42
1:Y7:206:LEU:HD12	1:a7:244:ASP:CG	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z7:279:VAL:HG13	1:Z7:318:THR:HA	2.02	0.42
1:b7:172:ARG:NH1	1:b7:277:GLY:H	2.16	0.42
1:g7:321:VAL:HG21	1:g7:327:PHE:HE2	1.85	0.42
1:i7:47:GLU:OE2	1:C8:22:LEU:CD1	2.67	0.42
1:B8:14:VAL:HA	1:AE:45:MET:HG2	2.01	0.42
1:D8:172:ARG:NH1	1:D8:277:GLY:H	2.16	0.42
1:J8:131:PHE:HB3	1:J8:159:LYS:HE3	2.01	0.42
1:R8:362:PRO:HA	1:R8:363:PRO:HD3	1.83	0.42
2:V8:22:LYS:HD2	2:V8:22:LYS:HA	1.73	0.42
1:b8:279:VAL:HG22	1:b8:318:THR:HA	2.02	0.42
1:g8:82:ILE:HG12	1:DD:144:THR:C	2.44	0.42
1:g8:206:LEU:HD12	1:i8:244:ASP:CG	2.45	0.42
1:h8:64:ILE:HD11	1:i8:88:GLU:CD	2.44	0.42
3:A9:79:MET:HE2	3:A9:79:MET:HB3	1.81	0.42
5:D9:104:ILE:O	5:D9:108:GLU:CB	2.68	0.42
5:E9:64:TRP:CE3	4:BB:30:LEU:CG	3.02	0.42
5:NA:297:GLY:O	5:NA:320:ILE:HG22	2.20	0.42
5:DB:9:LYS:HD3	5:DB:9:LYS:HA	1.70	0.42
5:DB:33:ASP:HA	3:AF:25:ASN:OD1	2.19	0.42
5:DB:80:LEU:HD21	5:FB:84:PHE:CD2	2.55	0.42
5:EB:55:LEU:HD21	5:EF:20:GLU:HB3	2.01	0.42
5:CB:158:GLU:OE2	5:OB:433:HIS:HD2	2.02	0.42
3:AC:79:MET:HE2	3:AC:79:MET:HB3	1.82	0.42
4:BC:33:TYR:CE1	5:EN:57:GLU:HG2	2.49	0.42
1:BD:240:ILE:HD11	1:BD:270:VAL:HG13	2.02	0.42
1:KD:33:TRP:HB2	1:IS:174:MET:HG2	1.77	0.42
1:KD:254:LYS:HD3	1:KD:254:LYS:HA	1.93	0.42
1:KD:372:VAL:HB	2:LS:11:MET:HE2	1.00	0.42
2:MD:11:MET:HA	2:MD:14:SER:HB2	2.00	0.42
1:BE:271:ILE:HG22	2:JE:45:ILE:HD11	2.02	0.42
1:SE:206:LEU:HD12	1:UE:244:ASP:CG	2.45	0.42
1:SE:321:VAL:HG21	1:SE:327:PHE:HE2	1.85	0.42
1:VE:164:ASN:HD21	2:YE:25:GLU:H	1.66	0.42
1:aE:63:LEU:HD13	1:AR:89:TYR:CZ	2.51	0.42
1:aE:362:PRO:HA	1:aE:363:PRO:HD3	1.85	0.42
1:bE:144:THR:HG22	1:bE:146:ALA:H	1.84	0.42
1:bE:271:ILE:HG22	2:hE:45:ILE:HD11	2.02	0.42
1:bE:362:PRO:HA	1:bE:363:PRO:HD3	1.83	0.42
1:cE:50:VAL:HG23	1:CG:137:ASP:HB3	2.01	0.42
5:DF:9:LYS:HA	5:DF:9:LYS:HD3	1.70	0.42
1:AG:240:ILE:HB	1:AG:270:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:34:THR:HB	1:RG:383:ALA:HB2	2.02	0.42
1:IG:98:ASN:ND2	1:IG:99:MET:N	2.67	0.42
1:IG:318:THR:O	1:IG:318:THR:CG2	2.67	0.42
1:LG:279:VAL:HG22	1:LG:318:THR:HA	2.02	0.42
1:QG:283:THR:N	1:QG:330:ASN:O	2.44	0.42
1:TG:104:ASN:ND2	1:TG:106:GLU:OE2	2.53	0.42
1:YG:82:ILE:HG12	1:DK:144:THR:C	2.44	0.42
1:gG:128:LYS:HB2	1:AL:99:MET:SD	2.60	0.42
1:gG:206:LEU:HD12	1:iG:244:ASP:CG	2.45	0.42
3:AH:153:ASP:CA	3:AH:156:ILE:HG22	2.50	0.42
3:AI:194:ASN:HD22	4:BM:3:ARG:CB	2.12	0.42
4:BI:250:ILE:CD1	3:AN:209:MET:HA	2.34	0.42
5:DI:105:ILE:HG22	5:EI:104:ILE:HD11	2.02	0.42
1:AJ:82:ILE:CG2	1:JS:143:GLN:C	2.93	0.42
1:DJ:315:ALA:HA	1:LP:31:LYS:HG2	1.20	0.42
1:LJ:21:ALA:HA	1:CS:123:ASN:HD21	1.83	0.42
1:LJ:365:HIS:ND1	1:CS:362:PRO:HD2	2.35	0.42
2:MJ:15:TYR:HB3	1:JS:149:THR:HG23	1.97	0.42
1:AK:106:GLU:CB	1:hR:109:LEU:HD12	2.50	0.42
1:CK:81:PHE:HZ	1:jR:136:ASN:C	2.28	0.42
1:CK:367:PRO:O	1:hR:377:HIS:NE2	2.53	0.42
1:KK:206:LEU:HD23	1:KK:209:GLN:HE21	1.85	0.42
1:KK:285:GLU:HG2	1:KK:312:PRO:HA	2.02	0.42
1:LK:243:THR:HG22	1:LK:245:SER:H	1.84	0.42
1:LK:365:HIS:ND1	1:DP:362:PRO:HD2	2.35	0.42
1:BL:365:HIS:CD2	2:NL:10:MET:HG2	2.55	0.42
1:SL:19:LYS:NZ	1:SL:37:ASP:OD1	2.37	0.42
1:ZL:144:THR:HG22	1:ZL:146:ALA:H	1.84	0.42
2:cL:44:GLN:HB3	2:cL:45:ILE:H	1.63	0.42
1:gL:237:ASP:HB2	1:gL:347:ILE:HG22	2.01	0.42
3:AO:36:LEU:HB3	1:IS:145:LEU:HD11	2.00	0.42
1:BP:354:ARG:NH2	2:EP:24:THR:OG1	2.53	0.42
1:CQ:184:SER:HB2	1:CQ:219:HIS:CE1	2.55	0.42
1:JQ:131:PHE:HB3	1:JQ:159:LYS:HE3	2.01	0.42
1:TQ:94:THR:OG1	1:LR:159:LYS:NZ	2.34	0.42
1:cQ:64:ILE:HD11	1:dQ:88:GLU:CD	2.44	0.42
1:JR:131:PHE:HB3	1:JR:159:LYS:HE3	2.01	0.42
1:LR:104:ASN:ND2	1:LR:106:GLU:OE2	2.53	0.42
1:RR:347:ILE:HD12	1:RR:347:ILE:HA	1.92	0.42
1:TR:82:ILE:HD13	1:TR:82:ILE:HA	1.85	0.42
1:YR:184:SER:HB2	1:YR:219:HIS:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bR:104:ASN:ND2	1:bR:106:GLU:OE2	2.53	0.42
1:hR:77:LYS:HB2	1:hR:353:LYS:HG2	2.02	0.42
1:hR:85:TYR:CD1	1:hR:122:GLY:HA2	2.53	0.42
1:CS:64:ILE:HG22	2:ES:53:PHE:HB2	2.01	0.42
1:CS:357:LYS:HG2	2:ES:20:LEU:HD23	2.02	0.42
1:KS:249:TYR:OH	1:KS:254:LYS:NZ	2.53	0.42
1:R1:121:TYR:HA	1:CJ:36:GLY:HA2	2.01	0.41
1:S1:100:ASP:HB2	1:CJ:26:ASN:C	2.44	0.41
2:U1:8:ARG:HH22	1:CJ:131:PHE:HE2	1.67	0.41
1:X1:283:THR:N	1:X1:330:ASN:O	2.44	0.41
1:a1:104:ASN:ND2	1:a1:106:GLU:OE2	2.53	0.41
1:g1:240:ILE:HB	1:g1:270:VAL:HG22	2.02	0.41
1:i1:82:ILE:HD13	1:i1:82:ILE:HA	1.85	0.41
3:A2:150:TYR:HD2	3:AB:37:GLU:CG	2.25	0.41
3:A2:241:LYS:HE2	3:A2:241:LYS:HB2	1.86	0.41
4:B2:192:THR:HA	4:B9:146:ALA:O	2.20	0.41
1:C3:137:ASP:HB3	1:SG:50:VAL:HG23	2.01	0.41
1:A3:144:THR:HG22	1:A3:146:ALA:H	1.84	0.41
1:I3:45:MET:HG2	1:SL:14:VAL:HA	2.02	0.41
1:I3:128:LYS:HB2	1:R8:99:MET:SD	2.60	0.41
1:J3:99:MET:SD	1:Q8:128:LYS:HB2	2.60	0.41
1:L3:98:ASN:O	1:D8:304:GLN:NE2	2.48	0.41
1:R3:144:THR:HG22	1:R3:146:ALA:H	1.84	0.41
1:R3:226:ILE:HG22	1:I8:299:ALA:HB1	2.02	0.41
1:S3:137:ASP:OD1	1:CR:48:THR:HG22	2.17	0.41
1:T3:104:ASN:ND2	1:T3:106:GLU:OE2	2.53	0.41
2:V3:10:MET:HG2	1:KR:365:HIS:CD2	2.55	0.41
1:C4:184:SER:HB2	1:C4:219:HIS:CE1	2.55	0.41
1:C4:302:ASP:CG	1:aE:29:TYR:HH	2.06	0.41
1:D4:179:SER:HB2	1:D4:392:LEU:HG	2.02	0.41
1:I4:206:LEU:HD12	1:K4:244:ASP:CG	2.45	0.41
1:I4:318:THR:O	1:I4:318:THR:CG2	2.67	0.41
1:I4:321:VAL:HG21	1:I4:327:PHE:HE2	1.85	0.41
1:J4:144:THR:HG22	1:J4:146:ALA:H	1.84	0.41
1:J4:383:ALA:HB2	1:i7:34:THR:HB	2.02	0.41
1:Q4:128:LYS:HB2	1:h8:99:MET:SD	2.60	0.41
1:Q4:139:ARG:HD2	1:IL:81:PHE:HE2	1.63	0.41
1:Q4:283:THR:N	1:Q4:330:ASN:O	2.44	0.41
1:R4:118:THR:OG1	1:BS:53:TYR:HB3	2.19	0.41
1:R4:178:TYR:CD1	1:BS:35:PHE:CZ	3.08	0.41
1:X4:184:SER:HB2	1:X4:219:HIS:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z4:34:THR:HB	1:J8:383:ALA:HB2	2.02	0.41
1:g4:77:LYS:HB2	1:g4:353:LYS:HG2	2.02	0.41
1:g4:118:THR:CG2	1:CD:53:TYR:HB3	2.48	0.41
1:g4:178:TYR:CD1	1:CD:35:PHE:CZ	3.08	0.41
1:i4:14:VAL:HG13	1:BD:46:PHE:CE2	2.53	0.41
1:i4:279:VAL:HG22	1:i4:318:THR:HA	2.02	0.41
1:i4:385:SER:O	1:i4:390:LYS:NZ	2.48	0.41
5:F5:132:ASN:C	5:N5:139:LYS:CE	2.92	0.41
1:C6:372:VAL:HG12	2:HL:11:MET:SD	2.60	0.41
1:A6:383:ALA:HB2	1:dQ:34:THR:HB	2.02	0.41
1:I6:81:PHE:HD2	1:CL:139:ARG:HD2	1.25	0.41
1:J6:77:LYS:HB2	1:J6:353:LYS:HG2	2.02	0.41
1:Q6:34:THR:H	1:LJ:382:LYS:HD2	1.59	0.41
1:Q6:310:THR:HB	1:CS:27:HIS:HE1	1.70	0.41
1:S6:34:THR:HB	1:AS:383:ALA:HB2	2.02	0.41
1:Y6:362:PRO:HA	1:Y6:363:PRO:HD3	1.84	0.41
1:Z6:271:ILE:HG22	2:f6:45:ILE:HD11	2.02	0.41
1:b6:60:GLU:OE2	1:b7:351:LYS:NZ	2.43	0.41
1:h6:131:PHE:HB3	1:h6:159:LYS:HE3	2.01	0.41
1:i6:47:GLU:H	1:DJ:20:SER:HB2	1.85	0.41
1:B7:372:VAL:HG21	2:EP:10:MET:HB3	2.02	0.41
1:I7:29:TYR:OH	1:gR:302:ASP:CB	2.67	0.41
1:L7:104:ASN:ND2	1:L7:106:GLU:OE2	2.53	0.41
1:L7:237:ASP:HB2	1:L7:347:ILE:HG22	2.01	0.41
1:Q7:128:LYS:HB2	1:RQ:99:MET:SD	2.60	0.41
1:R7:279:VAL:HG13	1:R7:318:THR:HA	2.02	0.41
1:S7:14:VAL:HA	1:QR:45:MET:HG2	2.02	0.41
1:T7:237:ASP:HB2	1:T7:347:ILE:HG22	2.01	0.41
1:Y7:139:ARG:CD	1:QQ:81:PHE:CE2	2.71	0.41
1:Y7:318:THR:O	1:Y7:318:THR:CG2	2.67	0.41
1:g7:206:LEU:HD12	1:i7:244:ASP:CG	2.45	0.41
1:h7:64:ILE:HD11	1:i7:88:GLU:CD	2.44	0.41
1:i7:259:PHE:C	1:i7:260:GLN:CG	2.93	0.41
1:C8:184:SER:HB2	1:C8:219:HIS:CE1	2.55	0.41
1:D8:104:ASN:ND2	1:D8:106:GLU:OE2	2.53	0.41
1:I8:139:ARG:CD	1:IR:81:PHE:CE2	2.71	0.41
1:I8:360:LEU:HD13	1:I8:360:LEU:HA	1.88	0.41
1:J8:144:THR:HG22	1:J8:146:ALA:H	1.84	0.41
1:R8:240:ILE:HB	1:R8:270:VAL:HG22	2.02	0.41
1:Z8:77:LYS:HB2	1:Z8:353:LYS:HG2	2.02	0.41
1:b8:104:ASN:ND2	1:b8:106:GLU:OE2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b8:237:ASP:HB2	1:b8:347:ILE:HG22	2.01	0.41
1:g8:208:LEU:HD12	1:g8:391:ILE:CD1	2.24	0.41
1:h8:101:LEU:N	1:IQ:25:PHE:O	2.49	0.41
1:j8:179:SER:HB2	1:j8:392:LEU:HG	2.02	0.41
3:A9:9:ASN:O	5:FA:28:TYR:N	2.52	0.41
4:B9:200:SER:HB2	4:BA:139:ASP:HB3	2.02	0.41
5:D9:105:ILE:HG22	5:E9:104:ILE:HD11	2.02	0.41
5:DA:80:LEU:HD21	5:FA:84:PHE:CD2	2.55	0.41
5:FA:132:ASN:C	5:NA:139:LYS:CE	2.92	0.41
5:CA:266:THR:CB	5:NC:230:SER:C	2.89	0.41
5:FC:132:ASN:C	5:NC:139:LYS:CE	2.92	0.41
5:NC:433:HIS:HD2	5:OC:158:GLU:OE2	2.02	0.41
5:OC:297:GLY:O	5:OC:320:ILE:HG22	2.20	0.41
1:AD:280:PHE:CE1	1:AD:333:GLU:HB3	2.55	0.41
1:DD:126:VAL:HG11	1:KS:25:PHE:HE1	1.48	0.41
1:DD:146:ALA:O	1:DD:149:THR:OG1	2.33	0.41
1:KD:189:ARG:NH1	1:KD:203:GLU:OE2	2.53	0.41
1:KD:206:LEU:HD23	1:KD:209:GLN:HE21	1.85	0.41
1:LD:14:VAL:HA	1:KK:45:MET:HG3	1.33	0.41
1:LD:205:ILE:HD12	1:LD:205:ILE:HA	1.93	0.41
1:LD:355:TYR:HB3	1:LD:379:TYR:HB3	2.01	0.41
1:LD:375:TRP:CH2	1:YG:367:PRO:HD2	2.55	0.41
1:LD:384:ILE:HG21	1:LD:384:ILE:HD13	1.88	0.41
1:LE:39:TRP:O	1:NE:222:SER:OG	2.32	0.41
1:TE:64:ILE:HD11	1:UE:88:GLU:CD	2.44	0.41
1:UE:259:PHE:C	1:UE:260:GLN:CG	2.93	0.41
1:aE:12:LEU:HD21	1:aE:44:THR:HG22	2.01	0.41
1:CG:184:SER:HB2	1:CG:219:HIS:CE1	2.55	0.41
1:CG:318:THR:O	1:CG:318:THR:CG2	2.67	0.41
1:IG:209:GLN:HE22	1:IG:235:LEU:HB2	1.84	0.41
1:IG:321:VAL:HG21	1:IG:327:PHE:HE2	1.85	0.41
1:QG:321:VAL:HG21	1:QG:327:PHE:HE2	1.85	0.41
1:YG:184:SER:HB2	1:YG:219:HIS:CE1	2.55	0.41
1:aG:47:GLU:H	1:DK:20:SER:HB2	1.85	0.41
1:gG:321:VAL:HG21	1:gG:327:PHE:HE2	1.85	0.41
1:jG:104:ASN:ND2	1:jG:106:GLU:OE2	2.53	0.41
4:BH:189:ASN:O	4:BN:149:LEU:HA	2.19	0.41
4:BI:244:LYS:CB	3:AN:212:MET:HE2	2.33	0.41
1:BJ:157:LYS:CE	2:iL:2:TYR:CE2	2.90	0.41
1:BJ:208:LEU:HD21	1:BJ:344:ILE:HD13	2.01	0.41
1:AK:82:ILE:CG2	1:KP:143:GLN:C	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:220:ARG:C	1:KP:38:LYS:HD3	2.43	0.41
1:CK:362:PRO:HA	1:CK:363:PRO:HD3	1.91	0.41
1:DK:99:MET:HE3	1:KK:128:LYS:HG2	2.02	0.41
1:KK:276:LEU:HD13	1:KK:276:LEU:HA	1.89	0.41
2:NK:32:ILE:O	2:NK:36:LYS:NZ	2.41	0.41
1:DL:104:ASN:ND2	1:DL:106:GLU:OE2	2.53	0.41
1:LL:265:ASP:OD1	1:LL:265:ASP:N	2.48	0.41
1:QL:289:GLN:N	1:QL:326:GLU:OE2	2.46	0.41
1:RL:240:ILE:HB	1:RL:270:VAL:HG22	2.02	0.41
1:ZL:271:ILE:HG22	2:fL:45:ILE:HD11	2.02	0.41
2:dL:22:LYS:HD2	2:dL:22:LYS:HA	1.73	0.41
2:hL:45:ILE:HG13	2:hL:46:HIS:HB3	1.99	0.41
4:BM:139:ASP:HB3	4:BO:200:SER:HB2	2.02	0.41
5:DM:69:GLU:OE2	5:DM:73:ARG:NH2	2.46	0.41
5:DM:104:ILE:O	5:DM:108:GLU:CB	2.68	0.41
5:OM:351:ASN:O	5:CO:244:ALA:HB3	2.20	0.41
5:CN:297:GLY:O	5:CN:320:ILE:HG22	2.20	0.41
5:EO:107:ASP:HB3	5:EO:108:GLU:H	1.63	0.41
5:OO:297:GLY:O	5:OO:320:ILE:HG22	2.20	0.41
1:BP:208:LEU:HD21	1:BP:344:ILE:HD13	2.01	0.41
1:BP:348:ASN:HB3	2:FP:50:LYS:HB2	2.02	0.41
1:CP:197:LEU:HA	1:CP:200:LYS:HB2	2.01	0.41
1:DP:99:MET:HE3	1:KP:128:LYS:HG2	2.02	0.41
1:KP:182:GLN:HB3	1:KP:220:ARG:NH1	2.35	0.41
1:KP:189:ARG:NH1	1:KP:203:GLU:OE2	2.53	0.41
1:CQ:206:LEU:HD12	1:BQ:244:ASP:CG	2.45	0.41
1:CQ:321:VAL:HG21	1:CQ:327:PHE:HE2	1.85	0.41
1:AQ:240:ILE:HB	1:AQ:270:VAL:HG22	2.02	0.41
1:IQ:206:LEU:HD12	1:KQ:244:ASP:CG	2.45	0.41
1:JQ:271:ILE:HG22	2:PQ:45:ILE:HD11	2.02	0.41
1:QQ:184:SER:HB2	1:QQ:219:HIS:CE1	2.55	0.41
1:QQ:206:LEU:HD12	1:SQ:244:ASP:CG	2.45	0.41
1:TQ:237:ASP:HB2	1:TQ:347:ILE:HG22	2.01	0.41
1:TQ:255:ILE:HA	1:TQ:258:THR:HG22	2.02	0.41
2:XQ:11:MET:SD	1:QR:372:VAL:HG12	2.60	0.41
1:bQ:206:LEU:HD12	1:dQ:244:ASP:CG	2.45	0.41
1:BR:209:GLN:NE2	1:BR:235:LEU:HB2	2.36	0.41
1:LR:28:ASP:OD1	1:LR:28:ASP:N	2.54	0.41
1:QR:206:LEU:HD12	1:SR:244:ASP:CG	2.45	0.41
1:QR:321:VAL:HG21	1:QR:327:PHE:HE2	1.85	0.41
1:YR:206:LEU:HD12	1:aR:244:ASP:CG	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YR:321:VAL:HG21	1:YR:327:PHE:HE2	1.85	0.41
1:bR:44:THR:OG1	1:bR:45:MET:N	2.51	0.41
1:gR:206:LEU:HD12	1:iR:244:ASP:CG	2.45	0.41
1:CS:99:MET:HE3	1:JS:128:LYS:HG2	2.02	0.41
2:DS:26:LEU:HD11	2:DS:30:MET:HB2	2.01	0.41
2:GS:40:SER:H	1:KS:263:GLY:C	2.25	0.41
1:IS:158:LYS:HZ1	1:JS:92:MET:C	2.27	0.41
1:C1:29:TYR:OH	1:bQ:302:ASP:CB	2.67	0.41
1:C1:206:LEU:HD12	1:B1:244:ASP:CG	2.45	0.41
1:C1:372:VAL:HG12	2:P7:11:MET:SD	2.60	0.41
1:A1:240:ILE:HB	1:A1:270:VAL:HG22	2.02	0.41
1:B1:47:GLU:OE2	1:Y8:22:LEU:CD1	2.67	0.41
1:J1:362:PRO:HA	1:J1:363:PRO:HD3	1.83	0.41
1:L1:172:ARG:NH1	1:L1:277:GLY:H	2.16	0.41
1:R1:109:LEU:HD12	1:AJ:106:GLU:CB	2.50	0.41
1:R1:240:ILE:HB	1:R1:270:VAL:HG22	2.02	0.41
1:S1:14:VAL:HA	1:Q8:45:MET:HG2	2.02	0.41
1:T1:30:SER:C	1:CJ:314:GLY:O	2.60	0.41
1:X1:150:ASN:OD1	2:X3:2:TYR:CB	2.53	0.41
1:Y1:383:ALA:HB2	1:aR:34:THR:HB	2.02	0.41
1:f1:360:LEU:HD13	1:f1:360:LEU:HA	1.88	0.41
3:A2:118:ASP:OD1	3:A2:118:ASP:N	2.36	0.41
4:B2:139:ASP:HB3	4:BB:200:SER:HB2	2.02	0.41
1:C3:48:THR:HG22	1:SG:137:ASP:OD1	2.17	0.41
1:C3:128:LYS:HB2	1:h7:99:MET:SD	2.60	0.41
1:C3:184:SER:HB2	1:C3:219:HIS:CE1	2.55	0.41
1:C3:206:LEU:HD12	1:B3:244:ASP:CG	2.45	0.41
1:A3:271:ILE:HG22	2:H3:45:ILE:HD11	2.02	0.41
1:J3:240:ILE:HB	1:J3:270:VAL:HG22	2.02	0.41
1:K3:109:LEU:H	1:K3:109:LEU:HG	1.76	0.41
1:L3:279:VAL:HG22	1:L3:318:THR:HA	2.02	0.41
1:R3:131:PHE:HB3	1:R3:159:LYS:HE3	2.01	0.41
1:Y3:304:GLN:NE2	1:bG:98:ASN:O	2.48	0.41
1:C4:372:VAL:HG12	2:fL:11:MET:SD	2.60	0.41
1:A4:64:ILE:HD11	1:B4:88:GLU:CD	2.44	0.41
1:A4:64:ILE:CG1	2:F4:53:PHE:CD2	2.95	0.41
1:A4:77:LYS:HB2	1:A4:353:LYS:HG2	2.02	0.41
1:D4:265:ASP:OD1	1:D4:265:ASP:N	2.48	0.41
1:I4:354:ARG:HH11	1:I4:354:ARG:HD3	1.74	0.41
1:Q4:184:SER:HB2	1:Q4:219:HIS:CE1	2.55	0.41
1:Q4:206:LEU:HD12	1:S4:244:ASP:CG	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T4:28:ASP:OD1	1:T4:28:ASP:N	2.54	0.41
1:Z4:362:PRO:HA	1:Z4:363:PRO:HD3	1.79	0.41
1:g4:99:MET:SD	1:YG:128:LYS:HB2	2.60	0.41
1:h4:209:GLN:NE2	1:h4:235:LEU:HB2	2.36	0.41
1:i4:104:ASN:ND2	1:i4:106:GLU:OE2	2.53	0.41
4:B5:86:ILE:HD12	4:B5:86:ILE:HA	1.91	0.41
4:B5:184:ASN:CB	4:BI:154:GLY:HA3	2.49	0.41
5:E5:14:ILE:HD13	5:EI:62:ARG:HE	1.85	0.41
5:E5:62:ARG:HE	5:EN:14:ILE:HD13	1.85	0.41
1:C6:29:TYR:OH	1:gG:302:ASP:CB	2.67	0.41
1:I6:206:LEU:HD12	1:K6:244:ASP:CG	2.45	0.41
1:I6:318:THR:O	1:I6:318:THR:CG2	2.67	0.41
1:J6:85:TYR:CD1	1:J6:122:GLY:HA2	2.53	0.41
2:P6:11:MET:SD	1:IR:372:VAL:HG12	2.60	0.41
1:Q6:25:PHE:HE1	1:LJ:126:VAL:CG1	2.33	0.41
1:R6:213:ALA:HB1	1:R6:228:GLN:HB2	2.00	0.41
1:S6:372:VAL:HG21	2:DS:10:MET:HB3	2.02	0.41
1:Z6:39:TRP:O	1:b6:222:SER:OG	2.32	0.41
1:Z6:64:ILE:CG1	2:d6:53:PHE:CD2	2.95	0.41
1:Z6:77:LYS:HB2	1:Z6:353:LYS:HG2	2.02	0.41
1:Z6:383:ALA:HB2	1:a7:34:THR:HB	2.02	0.41
2:f6:2:TYR:CD2	1:QQ:153:LEU:HD23	2.56	0.41
1:g6:53:TYR:CG	1:LP:223:GLY:HA2	2.44	0.41
1:g6:140:PHE:CZ	1:LP:123:ASN:ND2	2.81	0.41
1:g6:299:ALA:HB1	1:BE:226:ILE:HG22	2.02	0.41
1:h6:279:VAL:HG13	1:h6:318:THR:HA	2.02	0.41
1:h6:383:ALA:HB2	1:B8:34:THR:HB	2.02	0.41
1:A7:383:ALA:HB2	1:BQ:34:THR:HB	2.02	0.41
1:B7:137:ASP:OD2	1:DP:49:PHE:CB	2.55	0.41
1:B7:259:PHE:C	1:B7:260:GLN:CG	2.93	0.41
1:J7:205:ILE:HD11	1:J7:240:ILE:HD11	2.01	0.41
1:J7:274:ASP:HB3	1:K7:210:ASN:HD22	1.86	0.41
1:T7:28:ASP:OD1	1:T7:28:ASP:N	2.53	0.41
1:Z7:99:MET:SD	1:IR:128:LYS:HB2	2.60	0.41
1:a7:14:VAL:HG23	1:KE:14:VAL:HG21	1.96	0.41
1:b7:103:LYS:HA	1:b7:103:LYS:HD2	1.91	0.41
1:g7:184:SER:HB2	1:g7:219:HIS:CE1	2.55	0.41
1:g7:360:LEU:HD13	1:g7:360:LEU:HA	1.88	0.41
1:j7:164:ASN:HD21	2:m7:25:GLU:H	1.66	0.41
1:J8:205:ILE:HD11	1:J8:240:ILE:HD11	2.01	0.41
1:J8:274:ASP:HB3	1:K8:210:ASN:HD22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S8:109:LEU:H	1:S8:109:LEU:HG	1.76	0.41
1:T8:279:VAL:HG22	1:T8:318:THR:HA	2.02	0.41
1:a8:209:GLN:NE2	1:a8:235:LEU:HB2	2.36	0.41
1:g8:25:PHE:HE1	1:KS:126:VAL:CG1	2.33	0.41
1:g8:184:SER:HB2	1:g8:219:HIS:CE1	2.55	0.41
1:h8:64:ILE:CG1	2:l8:53:PHE:CD2	2.95	0.41
1:h8:77:LYS:HB2	1:h8:353:LYS:HG2	2.02	0.41
3:A9:36:LEU:CG	1:AK:135:ASN:HD21	2.32	0.41
3:A9:194:ASN:HD21	5:EC:36:ALA:CA	2.32	0.41
5:E9:36:ALA:CA	3:AB:194:ASN:HD21	2.32	0.41
5:DA:104:ILE:O	5:DA:108:GLU:CB	2.68	0.41
5:EA:13:ASP:OD1	5:EA:13:ASP:N	2.45	0.41
3:AC:17:SER:C	5:DH:38:TYR:HH	2.28	0.41
3:AC:114:PHE:CA	2:MP:51:GLN:CG	2.96	0.41
5:DC:104:ILE:O	5:DC:108:GLU:CB	2.68	0.41
1:AD:218:VAL:HG21	1:AD:229:TYR:HB3	2.01	0.41
1:BD:62:LEU:N	1:CD:88:GLU:OE1	2.52	0.41
1:CD:174:MET:HE1	1:CD:384:ILE:HG23	2.01	0.41
1:DD:64:ILE:HG22	2:FD:53:PHE:HB2	2.01	0.41
1:LD:249:TYR:OH	1:LD:254:LYS:NZ	2.53	0.41
1:DE:172:ARG:NH1	1:DE:277:GLY:H	2.16	0.41
1:BE:77:LYS:HB2	1:BE:353:LYS:HG2	2.02	0.41
1:FE:57:LYS:HB3	1:BP:143:GLN:HG3	1.61	0.41
1:KE:81:PHE:HE2	1:QQ:139:ARG:HD2	1.63	0.41
1:LE:55:PHE:O	1:LE:57:LYS:NZ	2.46	0.41
1:LE:279:VAL:HG13	1:LE:318:THR:HA	2.02	0.41
1:ME:174:MET:HE3	1:ME:382:LYS:HB3	2.00	0.41
1:NE:104:ASN:ND2	1:NE:106:GLU:OE2	2.53	0.41
1:SE:184:SER:HB2	1:SE:219:HIS:CE1	2.55	0.41
1:UE:34:THR:HB	1:JG:383:ALA:HB2	2.02	0.41
1:aE:184:SER:HB2	1:aE:219:HIS:CE1	2.55	0.41
1:cE:209:GLN:NE2	1:cE:235:LEU:HB2	2.36	0.41
1:dE:255:ILE:HA	1:dE:258:THR:HG22	2.02	0.41
5:DF:69:GLU:OE2	5:DF:73:ARG:NH2	2.46	0.41
5:OF:297:GLY:O	5:OF:320:ILE:HG22	2.20	0.41
1:IG:206:LEU:HD12	1:KG:244:ASP:CG	2.45	0.41
1:JG:55:PHE:HA	1:JG:56:PRO:HD3	1.90	0.41
1:LG:179:SER:HB2	1:LG:392:LEU:HG	2.02	0.41
1:QG:184:SER:HB2	1:QG:219:HIS:CE1	2.55	0.41
1:TG:265:ASP:OD1	1:TG:265:ASP:N	2.48	0.41
1:YG:375:TRP:CZ3	1:DK:367:PRO:CG	2.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZG:55:PHE:HA	1:ZG:56:PRO:HD3	1.90	0.41
1:aG:50:VAL:HG21	1:DK:137:ASP:CG	2.45	0.41
1:bG:164:ASN:HD21	2:eG:25:GLU:H	1.66	0.41
2:fG:11:MET:SD	1:gG:372:VAL:HG12	2.60	0.41
1:hG:64:ILE:HD11	1:iG:88:GLU:CD	2.44	0.41
5:EH:14:ILE:HD13	5:EN:62:ARG:HE	1.85	0.41
3:AI:209:MET:HA	4:BM:250:ILE:CD1	2.33	0.41
3:AI:256:VAL:HG11	3:AO:271:ARG:HD3	2.03	0.41
5:DI:55:LEU:H	5:DI:55:LEU:HG	1.62	0.41
5:DI:104:ILE:O	5:DI:108:GLU:CB	2.68	0.41
1:BJ:62:LEU:N	1:CJ:88:GLU:OE1	2.52	0.41
1:CJ:276:LEU:HD13	1:CJ:276:LEU:HA	1.92	0.41
2:FJ:15:TYR:HD2	1:LP:149:THR:N	2.05	0.41
1:LJ:139:ARG:HB3	1:CS:81:PHE:O	2.19	0.41
1:LJ:157:LYS:CE	2:ES:2:TYR:OH	2.63	0.41
2:FK:45:ILE:HD12	2:FK:45:ILE:HG23	1.84	0.41
1:KK:279:VAL:HA	1:KK:318:THR:HA	2.02	0.41
1:KK:362:PRO:HA	1:KK:363:PRO:HD3	1.86	0.41
1:LK:90:VAL:H	1:LK:117:ALA:HB3	1.85	0.41
1:LK:369:PHE:CZ	1:BP:107:LEU:CD1	3.03	0.41
2:NK:1:MET:HE2	2:mR:54:THR:HG22	1.97	0.41
1:AL:205:ILE:HD11	1:AL:240:ILE:HD11	2.01	0.41
1:AL:274:ASP:HB3	1:BL:210:ASN:HD22	1.86	0.41
1:IL:63:LEU:HD13	1:ZR:89:TYR:CZ	2.51	0.41
1:IL:321:VAL:HG21	1:IL:327:PHE:HE2	1.85	0.41
1:JL:274:ASP:HB3	1:KL:210:ASN:HD22	1.86	0.41
1:QL:299:ALA:HB1	1:RR:226:ILE:HG22	2.02	0.41
1:TL:179:SER:HB2	1:TL:392:LEU:HG	2.02	0.41
1:ZL:274:ASP:HB3	1:aL:210:ASN:HD22	1.86	0.41
1:gL:28:ASP:OD1	1:gL:28:ASP:N	2.53	0.41
3:AN:288:ILE:HD12	3:AN:288:ILE:HA	1.96	0.41
5:DN:104:ILE:O	5:DN:108:GLU:CB	2.68	0.41
5:DO:105:ILE:HG22	5:EO:104:ILE:HD11	2.02	0.41
1:BP:62:LEU:N	1:CP:88:GLU:OE1	2.52	0.41
1:AQ:279:VAL:HG13	1:AQ:318:THR:HA	2.02	0.41
1:DQ:44:THR:OG1	1:DQ:45:MET:N	2.51	0.41
1:IQ:184:SER:HB2	1:IQ:219:HIS:CE1	2.55	0.41
1:IQ:318:THR:O	1:IQ:318:THR:CG2	2.67	0.41
1:JQ:144:THR:HG22	1:JQ:146:ALA:H	1.84	0.41
1:LQ:237:ASP:HB2	1:LQ:347:ILE:HG22	2.01	0.41
1:QQ:321:VAL:HG21	1:QQ:327:PHE:HE2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YQ:255:ILE:HA	1:YQ:258:THR:HG22	2.02	0.41
1:bQ:321:VAL:HG21	1:bQ:327:PHE:HE2	1.85	0.41
1:eQ:104:ASN:ND2	1:eQ:106:GLU:OE2	2.53	0.41
1:DR:104:ASN:ND2	1:DR:106:GLU:OE2	2.53	0.41
1:IR:12:LEU:HD21	1:IR:44:THR:HG22	2.01	0.41
1:JR:271:ILE:HG22	2:PR:45:ILE:HD11	2.02	0.41
1:RR:213:ALA:HB1	1:RR:228:GLN:HB2	2.00	0.41
1:ZR:240:ILE:HB	1:ZR:270:VAL:HG22	2.02	0.41
1:ZR:279:VAL:HG13	1:ZR:318:THR:HA	2.02	0.41
1:gR:318:THR:O	1:gR:318:THR:CG2	2.67	0.41
1:jR:44:THR:OG1	1:jR:45:MET:N	2.51	0.41
1:jR:279:VAL:HG22	1:jR:318:THR:HA	2.02	0.41
1:CS:216:ASN:HD22	1:CS:229:TYR:HD2	1.67	0.41
1:IS:278:GLY:H	1:IS:279:VAL:HG22	1.85	0.41
1:C1:302:ASP:CB	1:Y8:29:TYR:OH	2.67	0.41
1:D1:179:SER:HB2	1:D1:392:LEU:HG	2.02	0.41
1:J1:279:VAL:HG13	1:J1:318:THR:HA	2.02	0.41
1:K1:34:THR:HB	1:LE:383:ALA:HB2	2.02	0.41
1:Q1:299:ALA:HB1	1:R6:226:ILE:HG22	2.02	0.41
1:R1:271:ILE:HG22	2:W1:45:ILE:HD11	2.02	0.41
1:R1:377:HIS:NE2	1:CJ:367:PRO:O	2.53	0.41
1:T1:179:SER:HB2	1:T1:392:LEU:HG	2.02	0.41
1:T1:237:ASP:HB2	1:T1:347:ILE:HG22	2.01	0.41
1:X1:203:GLU:O	1:X1:205:ILE:O	2.39	0.41
1:Y1:55:PHE:O	1:Y1:57:LYS:NZ	2.45	0.41
1:Z1:259:PHE:C	1:Z1:260:GLN:CG	2.93	0.41
2:c1:10:MET:HG2	1:aR:365:HIS:CD2	2.55	0.41
1:f1:128:LYS:HB2	1:AQ:99:MET:SD	2.60	0.41
1:f1:184:SER:HB2	1:f1:219:HIS:CE1	2.55	0.41
1:f1:314:GLY:HA3	1:QG:31:LYS:CE	2.49	0.41
1:f1:321:VAL:HG21	1:f1:327:PHE:HE2	1.85	0.41
1:g1:274:ASP:HB3	1:h1:210:ASN:HD22	1.86	0.41
1:g1:383:ALA:HB2	1:K7:34:THR:HB	2.02	0.41
3:A2:271:ARG:HD3	3:AB:256:VAL:HG11	2.03	0.41
4:B2:154:GLY:HA3	4:BB:184:ASN:CB	2.49	0.41
4:B2:200:SER:HB2	4:B9:139:ASP:HB3	2.02	0.41
5:D2:38:TYR:HB3	3:AM:202:ASN:HD22	1.78	0.41
5:E2:62:ARG:HE	5:EB:14:ILE:HD13	1.85	0.41
5:F2:46:TYR:HB3	5:FB:31:PHE:CZ	2.52	0.41
5:O2:297:GLY:O	5:O2:320:ILE:HG22	2.20	0.41
1:A3:279:VAL:HG13	1:A3:318:THR:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B3:209:GLN:NE2	1:B3:235:LEU:HB2	2.36	0.41
1:D3:237:ASP:HB2	1:D3:347:ILE:HG22	2.01	0.41
1:Q3:206:LEU:HD12	1:S3:244:ASP:CG	2.45	0.41
1:R3:279:VAL:HG13	1:R3:318:THR:HA	2.02	0.41
1:b3:104:ASN:ND2	1:b3:106:GLU:OE2	2.53	0.41
1:b3:123:ASN:HD21	1:BD:21:ALA:HB2	1.82	0.41
1:C4:137:ASP:HB3	1:BG:50:VAL:HG23	2.01	0.41
1:C4:153:LEU:HD23	2:fL:2:TYR:CD2	2.56	0.41
1:S4:50:VAL:HG23	1:IQ:137:ASP:HB3	2.01	0.41
1:S4:137:ASP:OD1	1:IQ:48:THR:HG22	2.17	0.41
1:X4:128:LYS:HB2	1:Z8:99:MET:SD	2.60	0.41
1:Y4:279:VAL:HG13	1:Y4:318:THR:HA	2.02	0.41
1:a4:98:ASN:O	1:L8:304:GLN:NE2	2.48	0.41
2:e4:11:MET:SD	1:bQ:372:VAL:HG12	2.60	0.41
1:i4:255:ILE:HA	1:i4:258:THR:HG22	2.02	0.41
3:A5:157:ILE:O	3:A5:161:THR:OG1	2.25	0.41
4:B5:117:GLU:N	4:B5:220:THR:O	2.51	0.41
5:E5:20:GLU:HB3	5:EI:55:LEU:HD21	2.01	0.41
5:E5:136:SER:O	5:E5:140:ASP:N	2.50	0.41
1:A6:240:ILE:HB	1:A6:270:VAL:HG22	2.02	0.41
1:B6:362:PRO:HA	1:B6:363:PRO:HD3	1.80	0.41
1:J6:271:ILE:HG22	2:P6:45:ILE:HD11	2.02	0.41
1:J6:279:VAL:HG13	1:J6:318:THR:HA	2.02	0.41
2:P6:2:TYR:CD2	1:IR:153:LEU:HD23	2.56	0.41
1:Q6:38:LYS:C	1:LJ:222:SER:OG	2.64	0.41
1:Q6:318:THR:O	1:Q6:318:THR:CG2	2.67	0.41
1:Q6:321:VAL:HG21	1:Q6:327:PHE:HE2	1.85	0.41
1:Z6:222:SER:OG	1:a7:39:TRP:O	2.33	0.41
1:Z6:226:ILE:HG22	1:KE:299:ALA:HB1	2.02	0.41
1:g6:25:PHE:HE1	1:LP:126:VAL:CG1	2.33	0.41
1:g6:82:ILE:CD1	1:DJ:144:THR:O	2.68	0.41
1:i6:174:MET:HE3	1:i6:382:LYS:HB3	2.00	0.41
1:j6:104:ASN:ND2	1:j6:106:GLU:OE2	2.53	0.41
1:j6:279:VAL:HG22	1:j6:318:THR:HA	2.02	0.41
2:n6:2:TYR:CD2	1:g7:153:LEU:HD23	2.56	0.41
1:C7:58:ILE:HD13	1:CK:55:PHE:HB3	1.98	0.41
1:C7:203:GLU:O	1:C7:205:ILE:O	2.39	0.41
1:A7:55:PHE:O	1:A7:57:LYS:NZ	2.45	0.41
1:I7:206:LEU:HD12	1:K7:244:ASP:CG	2.45	0.41
1:T7:104:ASN:ND2	1:T7:106:GLU:OE2	2.53	0.41
2:U7:44:GLN:HB3	2:U7:45:ILE:H	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y7:81:PHE:HE2	1:KE:139:ARG:HD2	1.63	0.41
1:Z7:205:ILE:HD11	1:Z7:240:ILE:HD11	2.01	0.41
1:h7:205:ILE:HD11	1:h7:240:ILE:HD11	2.01	0.41
1:I8:184:SER:HB2	1:I8:219:HIS:CE1	2.55	0.41
1:J8:119:LYS:HA	1:J8:119:LYS:HD3	1.89	0.41
1:Q8:169:LYS:HG3	1:Q8:172:ARG:HH21	1.86	0.41
1:Y8:318:THR:CG2	1:Y8:318:THR:O	2.67	0.41
1:b8:255:ILE:HA	1:b8:258:THR:HG22	2.02	0.41
1:b8:385:SER:O	1:b8:390:LYS:NZ	2.48	0.41
1:g8:82:ILE:CD1	1:DD:144:THR:O	2.68	0.41
1:g8:289:GLN:N	1:g8:326:GLU:OE2	2.46	0.41
1:i8:47:GLU:H	1:DD:20:SER:HB2	1.85	0.41
1:i8:137:ASP:OD2	1:DD:50:VAL:HG23	2.21	0.41
3:A9:202:ASN:HD22	5:DH:38:TYR:HB3	1.78	0.41
4:B9:192:THR:HA	4:BA:146:ALA:O	2.20	0.41
4:BA:117:GLU:N	4:BA:220:THR:O	2.51	0.41
4:BA:192:THR:HA	4:BC:146:ALA:O	2.20	0.41
3:AC:311:ILE:CD1	3:AH:258:LYS:CE	2.98	0.41
4:BC:32:PHE:CG	5:FN:55:LEU:HD11	2.35	0.41
4:BC:32:PHE:CE1	5:FN:51:ARG:HG2	2.54	0.41
1:AD:145:LEU:CD2	3:AF:33:ASN:CG	2.93	0.41
1:BD:209:GLN:HB3	2:FD:34:THR:HG22	2.02	0.41
1:BD:290:ASN:ND2	1:BD:325:LYS:HZ1	2.18	0.41
1:CD:285:GLU:HB3	1:CD:313:VAL:HG13	2.02	0.41
1:LD:356:THR:O	1:LD:356:THR:OG1	2.35	0.41
1:DE:104:ASN:ND2	1:DE:106:GLU:OE2	2.53	0.41
1:BE:377:HIS:NE2	1:CP:367:PRO:O	2.53	0.41
2:HE:6:ASN:N	1:CP:153:LEU:HD12	2.34	0.41
1:LE:131:PHE:HB3	1:LE:159:LYS:HE3	2.01	0.41
1:LE:362:PRO:HA	1:LE:363:PRO:HD3	1.83	0.41
1:NE:279:VAL:HG22	1:NE:318:THR:HA	2.02	0.41
2:RE:2:TYR:CD2	1:SE:153:LEU:HD23	2.56	0.41
5:DF:105:ILE:HG22	5:EF:104:ILE:HD11	2.02	0.41
1:AG:362:PRO:HA	1:AG:363:PRO:HD3	1.84	0.41
1:DG:255:ILE:HA	1:DG:258:THR:HG22	2.02	0.41
1:KG:62:LEU:HD23	1:KG:62:LEU:HA	1.91	0.41
1:RG:279:VAL:HG13	1:RG:318:THR:HA	2.02	0.41
1:TG:28:ASP:OD1	1:TG:28:ASP:N	2.54	0.41
1:TG:279:VAL:HG22	1:TG:318:THR:HA	2.02	0.41
1:ZG:279:VAL:HG13	1:ZG:318:THR:HA	2.02	0.41
1:gG:203:GLU:O	1:gG:205:ILE:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jG:179:SER:OG	1:jG:341:TYR:OH	2.29	0.41
2:nG:2:TYR:CD2	1:YR:153:LEU:HD23	2.56	0.41
3:AH:202:ASN:HD22	5:DI:38:TYR:HB3	1.78	0.41
3:AH:256:VAL:HG11	3:AN:271:ARG:HD3	2.02	0.41
5:CH:297:GLY:O	5:CH:320:ILE:HG22	2.20	0.41
5:OH:297:GLY:O	5:OH:320:ILE:HG22	2.20	0.41
3:AI:194:ASN:HD21	5:EM:36:ALA:CA	2.32	0.41
5:EI:57:GLU:HG2	4:BN:33:TYR:CE1	2.49	0.41
1:AJ:107:LEU:HD21	1:LJ:303:TYR:HE2	1.85	0.41
1:AJ:343:PHE:CE2	1:AJ:345:LEU:HD23	2.56	0.41
1:BJ:240:ILE:HD11	1:BJ:270:VAL:HG13	2.02	0.41
1:CJ:285:GLU:HB3	1:CJ:313:VAL:HG13	2.01	0.41
1:KJ:107:LEU:HB2	1:JS:369:PHE:HZ	1.86	0.41
1:KJ:279:VAL:HA	1:KJ:318:THR:HA	2.02	0.41
1:LJ:369:PHE:CZ	1:AS:107:LEU:CD1	3.03	0.41
1:BK:261:ILE:HG21	1:BK:265:ASP:OD2	2.15	0.41
1:KK:146:ALA:O	1:KK:149:THR:OG1	2.28	0.41
1:LK:152:ALA:CB	2:FP:11:MET:O	2.68	0.41
1:LK:157:LYS:CE	2:FP:2:TYR:OH	2.63	0.41
1:LK:274:ASP:OD1	1:LK:274:ASP:N	2.53	0.41
1:BL:34:THR:HB	1:JL:383:ALA:HB2	2.02	0.41
1:DL:28:ASP:OD1	1:DL:28:ASP:N	2.53	0.41
1:IL:128:LYS:HB2	1:ZR:99:MET:SD	2.60	0.41
1:JL:240:ILE:HB	1:JL:270:VAL:HG22	2.02	0.41
1:LL:385:SER:O	1:LL:390:LYS:NZ	2.48	0.41
1:RL:101:LEU:N	1:YL:25:PHE:O	2.49	0.41
1:RL:271:ILE:HG22	2:XL:45:ILE:HD11	2.02	0.41
1:bL:237:ASP:HB2	1:bL:347:ILE:HG22	2.01	0.41
1:bL:264:ILE:H	1:bL:264:ILE:HG13	1.66	0.41
3:AM:106:ARG:O	2:LS:21:ASN:OD1	2.38	0.41
5:EM:62:ARG:HE	5:EO:14:ILE:HD13	1.85	0.41
5:EM:140:ASP:OD2	5:CM:139:LYS:HE3	2.21	0.41
3:AO:29:ARG:CD	1:IS:136:ASN:CG	2.92	0.41
1:AP:280:PHE:CE1	1:AP:333:GLU:HB3	2.55	0.41
1:AP:280:PHE:HB2	1:AP:317:PHE:HB2	2.03	0.41
1:BP:240:ILE:HD11	1:BP:270:VAL:HG13	2.02	0.41
1:CP:306:GLN:N	1:CP:309:ASP:OD2	2.42	0.41
1:KP:279:VAL:HA	1:KP:318:THR:HA	2.02	0.41
1:CQ:153:LEU:HD23	2:iQ:2:TYR:CD2	2.56	0.41
1:JQ:279:VAL:HG13	1:JQ:318:THR:HA	2.02	0.41
1:KQ:209:GLN:NE2	1:KQ:235:LEU:HB2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LQ:94:THR:OG1	1:bR:159:LYS:NZ	2.34	0.41
2:MQ:33:ASP:O	2:MQ:36:LYS:NZ	2.43	0.41
2:XQ:2:TYR:CD2	1:QR:153:LEU:HD23	2.56	0.41
1:bQ:203:GLU:O	1:bQ:205:ILE:O	2.39	0.41
1:cQ:271:ILE:HG22	2:iQ:45:ILE:HD11	2.02	0.41
1:CR:169:LYS:HG3	1:CR:172:ARG:HH21	1.86	0.41
1:AR:205:ILE:HD11	1:AR:240:ILE:HD11	2.01	0.41
1:RR:279:VAL:HG13	1:RR:318:THR:HA	2.02	0.41
1:gR:321:VAL:HG21	1:gR:327:PHE:HE2	1.85	0.41
1:hR:271:ILE:HG22	2:mR:45:ILE:HD11	2.02	0.41
1:hR:274:ASP:HB3	1:iR:210:ASN:HD22	1.86	0.41
1:C1:184:SER:HB2	1:C1:219:HIS:CE1	2.55	0.41
1:C1:209:GLN:HE22	1:C1:235:LEU:HB2	1.84	0.41
1:B1:260:GLN:HA	1:B1:260:GLN:NE2	2.36	0.41
1:I1:128:LYS:HB2	1:JG:99:MET:SD	2.60	0.41
1:I1:132:THR:HG21	1:JG:111:ARG:HG2	1.23	0.41
1:K1:47:GLU:OE2	1:Y6:22:LEU:CD1	2.67	0.41
1:K1:209:GLN:NE2	1:K1:235:LEU:HB2	2.36	0.41
1:K1:260:GLN:HA	1:K1:260:GLN:NE2	2.36	0.41
2:P1:11:MET:SD	1:Q1:372:VAL:HG12	2.60	0.41
1:Q1:132:THR:HG21	1:R6:111:ARG:HG2	1.23	0.41
1:X1:45:MET:HG2	1:K8:14:VAL:HA	2.02	0.41
1:Y1:77:LYS:HB2	1:Y1:353:LYS:HG2	2.02	0.41
2:e1:2:TYR:CD2	1:CL:153:LEU:HD23	2.56	0.41
1:f1:169:LYS:HG3	1:f1:172:ARG:HH21	1.86	0.41
3:A2:174:LEU:HA	3:A2:174:LEU:HD12	1.87	0.41
4:B2:189:ASN:O	4:B9:149:LEU:HA	2.19	0.41
1:C3:203:GLU:O	1:C3:205:ILE:O	2.39	0.41
1:C3:318:THR:O	1:C3:318:THR:CG2	2.67	0.41
1:B3:260:GLN:HA	1:B3:260:GLN:NE2	2.36	0.41
1:B3:365:HIS:CD2	2:FQ:10:MET:HG2	2.55	0.41
1:I3:169:LYS:HG3	1:I3:172:ARG:HH21	1.86	0.41
1:J3:110:LYS:O	1:Q8:130:LYS:NZ	2.41	0.41
1:L3:82:ILE:HD13	1:L3:82:ILE:HA	1.85	0.41
1:Q3:372:VAL:HG12	2:f8:11:MET:SD	2.60	0.41
1:T3:28:ASP:OD1	1:T3:28:ASP:N	2.54	0.41
1:C4:203:GLU:O	1:C4:205:ILE:O	2.39	0.41
1:B4:50:VAL:HG23	1:aE:137:ASP:HB3	2.01	0.41
1:B4:62:LEU:HD23	1:B4:62:LEU:HA	1.91	0.41
1:B4:260:GLN:HA	1:B4:260:GLN:NE2	2.36	0.41
2:H4:22:LYS:HG2	1:QG:360:LEU:HD21	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:179:SER:HB2	1:L4:392:LEU:HG	2.02	0.41
2:N4:1:MET:H2	1:i7:150:ASN:HD21	1.63	0.41
2:N4:10:MET:HG2	1:i7:365:HIS:CD2	2.55	0.41
2:P4:22:LYS:HG2	1:C8:360:LEU:HD21	1.95	0.41
1:Q4:31:LYS:CE	1:IL:314:GLY:HA3	2.49	0.41
1:Q4:360:LEU:HD21	2:n8:22:LYS:HG2	1.94	0.41
1:R4:279:VAL:HG13	1:R4:318:THR:HA	2.02	0.41
1:S4:209:GLN:NE2	1:S4:235:LEU:HB2	2.36	0.41
1:T4:367:PRO:HG2	1:BS:375:TRP:CH2	2.47	0.41
2:W4:54:THR:HG22	2:MS:1:MET:HE2	1.97	0.41
1:X4:169:LYS:HG3	1:X4:172:ARG:HH21	1.86	0.41
1:X4:372:VAL:HG12	2:hE:11:MET:SD	2.60	0.41
1:Y4:115:ARG:NH2	1:Y8:300:TYR:CA	2.75	0.41
1:f4:29:TYR:OH	1:C6:302:ASP:CB	2.67	0.41
1:f4:318:THR:CG2	1:f4:318:THR:O	2.67	0.41
1:g4:240:ILE:HB	1:g4:270:VAL:HG22	2.02	0.41
1:h4:365:HIS:CD2	2:FL:10:MET:HG2	2.55	0.41
5:D5:80:LEU:HD21	5:F5:84:PHE:CD2	2.55	0.41
1:C6:206:LEU:HD12	1:B6:244:ASP:CG	2.45	0.41
1:C6:209:GLN:HE22	1:C6:235:LEU:HB2	1.84	0.41
1:B6:260:GLN:HA	1:B6:260:GLN:NE2	2.36	0.41
1:I6:321:VAL:HG21	1:I6:327:PHE:HE2	1.85	0.41
1:I6:370:ASP:CG	1:YR:361:LYS:HZ2	2.28	0.41
1:J6:274:ASP:HB3	1:K6:210:ASN:HD22	1.86	0.41
1:L6:279:VAL:HG22	1:L6:318:THR:HA	2.02	0.41
1:Q6:29:TYR:CB	1:LJ:315:ALA:HB1	2.50	0.41
1:Q6:367:PRO:HD2	1:LJ:375:TRP:CH2	2.55	0.41
1:R6:240:ILE:HB	1:R6:270:VAL:HG22	2.02	0.41
1:R6:279:VAL:HG13	1:R6:318:THR:HA	2.02	0.41
2:V6:10:MET:HG2	1:KG:365:HIS:CD2	2.55	0.41
1:g6:203:GLU:O	1:g6:205:ILE:O	2.39	0.41
1:C7:82:ILE:CD1	1:DP:144:THR:O	2.68	0.41
1:C7:283:THR:N	1:C7:330:ASN:O	2.44	0.41
1:A7:77:LYS:HB2	1:A7:353:LYS:HG2	2.02	0.41
1:B7:137:ASP:OD2	1:DP:50:VAL:HG23	2.21	0.41
2:F7:10:MET:HG2	1:BQ:365:HIS:CD2	2.55	0.41
2:H7:2:TYR:CD2	1:I7:153:LEU:HD23	2.56	0.41
1:I7:139:ARG:CD	1:gR:81:PHE:CE2	2.71	0.41
1:L7:28:ASP:OD1	1:L7:28:ASP:N	2.53	0.41
2:P7:32:ILE:HD11	1:bQ:74:TRP:CE3	2.56	0.41
1:Q7:318:THR:O	1:Q7:318:THR:CG2	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T7:179:SER:HB2	1:T7:392:LEU:HG	2.02	0.41
1:Y7:184:SER:HB2	1:Y7:219:HIS:CE1	2.55	0.41
1:Y7:354:ARG:HH11	1:Y7:354:ARG:HD3	1.74	0.41
1:b7:104:ASN:ND2	1:b7:106:GLU:OE2	2.53	0.41
1:g7:203:GLU:O	1:g7:205:ILE:O	2.39	0.41
1:A8:279:VAL:HG13	1:A8:318:THR:HA	2.02	0.41
1:B8:209:GLN:NE2	1:B8:235:LEU:HB2	2.36	0.41
1:B8:260:GLN:HA	1:B8:260:GLN:NE2	2.36	0.41
1:J8:101:LEU:N	1:CR:25:PHE:O	2.49	0.41
1:J8:279:VAL:HG13	1:J8:318:THR:HA	2.02	0.41
2:P8:2:TYR:CD2	1:CR:153:LEU:HD23	2.56	0.41
1:g8:27:HIS:ND1	1:KS:310:THR:O	2.40	0.41
1:g8:203:GLU:O	1:g8:205:ILE:O	2.39	0.41
1:i8:260:GLN:HA	1:i8:260:GLN:NE2	2.36	0.41
3:A9:311:ILE:CD1	3:AA:258:LYS:CE	2.98	0.41
5:DA:101:ILE:HA	5:DA:104:ILE:HG12	2.03	0.41
5:DB:60:ALA:HB1	5:EF:18:LEU:HD12	2.03	0.41
4:BC:200:SER:HB2	4:BH:139:ASP:HB3	2.02	0.41
5:FC:31:PHE:CZ	5:FH:46:TYR:HB3	2.52	0.41
1:AD:276:LEU:HD13	1:AD:276:LEU:HA	1.94	0.41
1:DD:276:LEU:HD23	1:DD:276:LEU:HA	1.93	0.41
1:DD:349:SER:HA	1:DD:385:SER:HB3	2.03	0.41
1:LD:139:ARG:HB3	1:DK:81:PHE:O	2.19	0.41
2:JE:54:THR:HG22	2:NP:1:MET:HE2	1.97	0.41
1:KE:203:GLU:O	1:KE:205:ILE:O	2.39	0.41
1:KE:362:PRO:HA	1:KE:363:PRO:HD3	1.85	0.41
1:NE:265:ASP:OD1	1:NE:265:ASP:N	2.48	0.41
1:NE:325:LYS:NZ	1:NE:325:LYS:CB	2.73	0.41
1:TE:205:ILE:HD11	1:TE:240:ILE:HD11	2.01	0.41
1:UE:365:HIS:CD2	2:NG:10:MET:HG2	2.55	0.41
1:bE:124:GLY:H	1:bE:379:TYR:HH	1.66	0.41
1:dE:179:SER:HB2	1:dE:392:LEU:HG	2.02	0.41
1:dE:351:LYS:NZ	1:bL:60:GLU:OE2	2.43	0.41
3:AF:150:TYR:HD2	3:AM:37:GLU:CG	2.25	0.41
4:BF:149:LEU:HA	4:BM:189:ASN:O	2.19	0.41
5:DF:38:TYR:HH	3:AM:17:SER:C	2.29	0.41
5:DF:60:ALA:HB1	5:EM:18:LEU:HD12	2.03	0.41
5:DF:80:LEU:HD21	5:FF:84:PHE:CD2	2.55	0.41
1:CG:372:VAL:HG12	2:HR:11:MET:SD	2.60	0.41
2:EG:44:GLN:HB3	2:EG:45:ILE:H	1.63	0.41
1:LG:28:ASP:OD1	1:LG:28:ASP:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:QG:206:LEU:HD12	1:SG:244:ASP:CG	2.45	0.41
1:SG:209:GLN:NE2	1:SG:235:LEU:HB2	2.36	0.41
1:YG:169:LYS:HG3	1:YG:172:ARG:HH21	1.86	0.41
1:ZG:347:ILE:HD12	1:ZG:347:ILE:HA	1.92	0.41
1:aG:362:PRO:HA	1:aG:363:PRO:HD3	1.79	0.41
1:gG:74:TRP:CE3	2:HL:32:ILE:HD11	2.56	0.41
1:hG:39:TRP:O	1:jG:222:SER:OG	2.32	0.41
1:hG:271:ILE:HG22	2:nG:45:ILE:HD11	2.02	0.41
5:DH:101:ILE:HA	5:DH:104:ILE:HG12	2.03	0.41
3:AI:32:PHE:HZ	1:IS:54:LEU:CA	2.27	0.41
1:AJ:280:PHE:CE1	1:AJ:333:GLU:HB3	2.55	0.41
1:KJ:21:ALA:HB2	1:AP:123:ASN:HD21	0.59	0.41
1:LJ:90:VAL:H	1:LJ:117:ALA:HB3	1.85	0.41
1:AK:71:ARG:H	2:MK:26:LEU:HD13	1.85	0.41
1:AK:280:PHE:CE1	1:AK:333:GLU:HB3	2.55	0.41
1:AK:343:PHE:CE2	1:AK:345:LEU:HD23	2.56	0.41
1:BK:49:PHE:CB	1:jR:137:ASP:OD2	2.69	0.41
1:BK:62:LEU:N	1:CK:88:GLU:OE1	2.52	0.41
2:EK:36:LYS:HE2	2:EK:36:LYS:HB3	1.82	0.41
1:KK:242:THR:HG21	1:KK:246:LEU:HD12	2.02	0.41
1:CL:206:LEU:HD12	1:BL:244:ASP:CG	2.45	0.41
1:AL:271:ILE:HG22	2:HL:45:ILE:HD11	2.02	0.41
1:IL:169:LYS:HG3	1:IL:172:ARG:HH21	1.86	0.41
1:IL:184:SER:HB2	1:IL:219:HIS:CE1	2.55	0.41
1:RL:279:VAL:HG13	1:RL:318:THR:HA	2.02	0.41
1:TL:237:ASP:HB2	1:TL:347:ILE:HG22	2.01	0.41
1:TL:255:ILE:HA	1:TL:258:THR:HG22	2.02	0.41
1:gL:104:ASN:ND2	1:gL:106:GLU:OE2	2.53	0.41
1:gL:179:SER:HB2	1:gL:392:LEU:HG	2.02	0.41
5:DM:66:TYR:OH	5:FM:67:ASP:OD1	2.32	0.41
1:CQ:361:LYS:HZ2	1:gR:370:ASP:CG	2.28	0.41
1:IQ:12:LEU:HD21	1:IQ:44:THR:HG22	2.01	0.41
1:IQ:203:GLU:O	1:IQ:205:ILE:O	2.39	0.41
1:KQ:19:LYS:NZ	1:KQ:37:ASP:OD1	2.37	0.41
1:KQ:260:GLN:HA	1:KQ:260:GLN:NE2	2.36	0.41
1:SQ:174:MET:HE3	1:SQ:382:LYS:HB3	2.00	0.41
1:SQ:365:HIS:CD2	2:NR:10:MET:HG2	2.55	0.41
2:ZQ:44:GLN:HB3	2:ZQ:45:ILE:H	1.63	0.41
1:cQ:205:ILE:HD11	1:cQ:240:ILE:HD11	2.01	0.41
1:cQ:274:ASP:HB3	1:dQ:210:ASN:HD22	1.86	0.41
1:CR:184:SER:HB2	1:CR:219:HIS:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KR:109:LEU:H	1:KR:109:LEU:HG	1.76	0.41
1:KR:209:GLN:NE2	1:KR:235:LEU:HB2	2.36	0.41
1:KR:260:GLN:HA	1:KR:260:GLN:NE2	2.36	0.41
1:LR:255:ILE:HA	1:LR:258:THR:HG22	2.02	0.41
1:RR:240:ILE:HB	1:RR:270:VAL:HG22	2.02	0.41
2:VR:22:LYS:HD2	2:VR:22:LYS:HA	1.73	0.41
1:hR:279:VAL:HG13	1:hR:318:THR:HA	2.02	0.41
1:BS:174:MET:HE1	1:BS:384:ILE:HG23	2.01	0.41
1:CS:245:SER:O	1:CS:248:SER:OG	2.32	0.41
1:IS:107:LEU:HD21	1:KS:303:TYR:HE2	1.85	0.41
1:IS:242:THR:OG1	1:IS:243:THR:N	2.53	0.41
1:JS:285:GLU:HG2	1:JS:312:PRO:HA	2.02	0.41
2:MS:45:ILE:HD12	2:MS:45:ILE:HG23	1.84	0.41
1:B1:365:HIS:CD2	2:c4:10:MET:HG2	2.55	0.41
1:L1:279:VAL:HG22	1:L1:318:THR:HA	2.02	0.41
1:L1:304:GLN:NE2	1:T8:98:ASN:O	2.48	0.41
1:R1:77:LYS:HB2	1:R1:353:LYS:HG2	2.02	0.41
1:R1:279:VAL:HG13	1:R1:318:THR:HA	2.02	0.41
1:T1:255:ILE:HA	1:T1:258:THR:HG22	2.02	0.41
1:T1:372:VAL:HG11	2:HJ:11:MET:HG3	1.13	0.41
1:Y1:101:LEU:N	1:CL:25:PHE:O	2.49	0.41
5:E2:124:LYS:HZ1	5:F2:120:PHE:HA	1.85	0.41
5:O2:216:VAL:HG12	5:O2:217:GLN:HG3	2.03	0.41
1:C3:12:LEU:HD21	1:C3:44:THR:HG22	2.01	0.41
2:P3:22:LYS:HG2	1:Q8:360:LEU:HD21	1.94	0.41
1:R3:77:LYS:HB2	1:R3:353:LYS:HG2	2.02	0.41
1:S3:47:GLU:OE2	1:CR:22:LEU:CD1	2.67	0.41
1:S3:365:HIS:CD2	2:fE:10:MET:HG2	2.55	0.41
1:T3:255:ILE:HA	1:T3:258:THR:HG22	2.02	0.41
2:V3:1:MET:H3	1:KR:150:ASN:ND2	2.18	0.41
1:Y3:255:ILE:HA	1:Y3:258:THR:HG22	2.02	0.41
1:b3:179:SER:HB2	1:b3:392:LEU:HG	2.02	0.41
1:C4:128:LYS:HB2	1:RG:99:MET:SD	2.60	0.41
1:A4:226:ILE:HG22	1:QG:299:ALA:HB1	2.02	0.41
1:B4:34:THR:HB	1:AR:383:ALA:HB2	2.02	0.41
1:J4:99:MET:SD	1:C8:128:LYS:HB2	2.60	0.41
1:K4:365:HIS:CD2	2:VR:10:MET:HG2	2.55	0.41
1:R4:77:LYS:HB2	1:R4:353:LYS:HG2	2.02	0.41
1:S4:34:THR:HB	1:TE:383:ALA:HB2	2.02	0.41
1:T4:137:ASP:OD2	1:AS:49:PHE:CB	2.69	0.41
1:T4:279:VAL:HG22	1:T4:318:THR:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X4:137:ASP:HB3	1:BR:50:VAL:HG23	2.01	0.41
1:f4:206:LEU:HD12	1:h4:244:ASP:CG	2.45	0.41
1:i4:99:MET:HE3	1:i4:99:MET:HB2	1.97	0.41
3:A5:241:LYS:HE2	3:A5:241:LYS:HB2	1.86	0.41
4:B5:188:ASP:N	4:B5:188:ASP:OD1	2.51	0.41
5:E5:18:LEU:HD12	5:DI:60:ALA:HB1	2.03	0.41
5:E5:64:TRP:HE1	4:BH:30:LEU:N	2.00	0.41
1:C6:184:SER:HB2	1:C6:219:HIS:CE1	2.55	0.41
1:D6:179:SER:HB2	1:D6:392:LEU:HG	2.02	0.41
1:D6:279:VAL:HG22	1:D6:318:THR:HA	2.02	0.41
2:N6:1:MET:N	1:K8:150:ASN:ND2	2.61	0.41
1:T6:82:ILE:HD13	1:T6:82:ILE:HA	1.85	0.41
1:T6:179:SER:HB2	1:T6:392:LEU:HG	2.02	0.41
2:X6:2:TYR:CD2	1:Q8:153:LEU:HD23	2.56	0.41
2:X6:11:MET:SD	1:Q8:372:VAL:HG12	2.60	0.41
1:Y6:204:ALA:C	1:Y6:205:ILE:O	2.60	0.41
1:Y6:289:GLN:N	1:Y6:326:GLU:OE2	2.46	0.41
1:g6:29:TYR:CB	1:LP:315:ALA:HB1	2.50	0.41
1:g6:222:SER:HG	1:DJ:53:TYR:HD1	0.68	0.41
1:h6:55:PHE:O	1:h6:57:LYS:NZ	2.46	0.41
1:C7:375:TRP:CE3	1:DP:367:PRO:CG	2.94	0.41
1:J7:240:ILE:HB	1:J7:270:VAL:HG22	2.02	0.41
1:J7:271:ILE:HG22	2:P7:45:ILE:HD11	2.02	0.41
1:K7:260:GLN:HA	1:K7:260:GLN:NE2	2.36	0.41
2:N7:10:MET:HG2	1:a8:365:HIS:CD2	2.55	0.41
1:Q7:153:LEU:HD23	2:HG:2:TYR:CD2	2.56	0.41
1:Q7:184:SER:HB2	1:Q7:219:HIS:CE1	2.55	0.41
1:Y7:137:ASP:HB3	1:SQ:50:VAL:HG23	2.01	0.41
1:Z7:131:PHE:HB3	1:Z7:159:LYS:HE3	2.01	0.41
1:B8:47:GLU:OE2	1:AE:22:LEU:CD1	2.67	0.41
1:D8:264:ILE:H	1:D8:264:ILE:HG13	1.66	0.41
2:H8:11:MET:SD	1:QL:372:VAL:HG12	2.60	0.41
1:I8:169:LYS:HG3	1:I8:172:ARG:HH21	1.86	0.41
1:L8:255:ILE:HA	1:L8:258:THR:HG22	2.02	0.41
1:Q8:321:VAL:HG22	1:Q8:327:PHE:CE2	2.51	0.41
1:Y8:206:LEU:HD12	1:a8:244:ASP:CG	2.45	0.41
1:Z8:240:ILE:HB	1:Z8:270:VAL:HG22	2.02	0.41
1:g8:209:GLN:HE22	1:g8:235:LEU:HB2	1.84	0.41
1:j8:28:ASP:N	1:j8:28:ASP:OD1	2.54	0.41
5:E9:14:ILE:HD13	5:EA:62:ARG:HE	1.85	0.41
5:O9:297:GLY:O	5:O9:320:ILE:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:113:TYR:C	2:MK:7:MET:C	2.86	0.41
4:BA:32:PHE:CG	5:FH:55:LEU:HD11	2.35	0.41
3:AB:258:LYS:CE	3:AF:311:ILE:CD1	2.98	0.41
5:CB:297:GLY:O	5:CB:320:ILE:HG22	2.20	0.41
3:AC:11:GLU:O	5:EH:40:THR:OG1	2.30	0.41
5:EC:18:LEU:HD12	5:DH:60:ALA:HB1	2.03	0.41
1:AD:54:LEU:CB	3:AF:150:TYR:O	2.68	0.41
1:DD:362:PRO:HD2	1:KS:365:HIS:ND1	2.35	0.41
2:GD:53:PHE:O	2:LS:1:MET:CE	2.68	0.41
1:KD:50:VAL:HG21	1:KS:137:ASP:CG	2.46	0.41
1:LD:29:TYR:OH	1:DK:302:ASP:HB3	1.99	0.41
1:LD:222:SER:OG	1:YG:38:LYS:C	2.64	0.41
2:MD:1:MET:CE	2:GK:53:PHE:O	2.68	0.41
1:AE:204:ALA:C	1:AE:205:ILE:O	2.60	0.41
1:AE:289:GLN:N	1:AE:326:GLU:OE2	2.46	0.41
1:FE:279:VAL:HG22	1:FE:318:THR:HA	2.02	0.41
1:KE:184:SER:HB2	1:KE:219:HIS:CE1	2.55	0.41
1:ME:50:VAL:HG23	1:QQ:137:ASP:HB3	2.01	0.41
1:SE:203:GLU:O	1:SE:205:ILE:O	2.39	0.41
1:bE:279:VAL:HG13	1:bE:318:THR:HA	2.02	0.41
1:dE:264:ILE:H	1:dE:264:ILE:HG13	1.66	0.41
1:CG:62:LEU:HG	2:fL:53:PHE:HD2	1.59	0.41
1:AG:279:VAL:HG13	1:AG:318:THR:HA	2.02	0.41
1:IG:362:PRO:HA	1:IG:363:PRO:HD3	1.85	0.41
1:RG:77:LYS:HB2	1:RG:353:LYS:HG2	2.02	0.41
1:RG:271:ILE:HG22	2:XG:45:ILE:HD11	2.02	0.41
1:YG:171:MET:HE3	1:YG:171:MET:HB3	1.88	0.41
1:ZG:168:GLU:OE2	1:aG:211:ASN:ND2	2.38	0.41
1:aG:21:ALA:HA	1:BK:123:ASN:ND2	2.36	0.41
1:aG:29:TYR:HB3	1:BK:315:ALA:HB1	2.00	0.41
1:aG:145:LEU:N	1:BK:82:ILE:HD12	2.31	0.41
1:gG:184:SER:HB2	1:gG:219:HIS:CE1	2.55	0.41
1:gG:283:THR:N	1:gG:330:ASN:O	2.44	0.41
1:hG:205:ILE:HD11	1:hG:240:ILE:HD11	2.01	0.41
1:hG:274:ASP:HB3	1:iG:210:ASN:HD22	1.86	0.41
1:hG:279:VAL:HG13	1:hG:318:THR:HA	2.02	0.41
1:iG:209:GLN:NE2	1:iG:235:LEU:HB2	2.36	0.41
1:jG:179:SER:HB2	1:jG:392:LEU:HG	2.02	0.41
1:jG:255:ILE:HA	1:jG:258:THR:HG22	2.02	0.41
4:BH:192:THR:HA	4:BN:146:ALA:O	2.20	0.41
5:DH:66:TYR:OH	5:FH:67:ASP:OD1	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FH:132:ASN:C	5:NH:139:LYS:CE	2.92	0.41
5:CH:244:ALA:HB3	5:ON:351:ASN:O	2.20	0.41
3:AI:25:ASN:OD1	5:DO:33:ASP:HA	2.20	0.41
3:AI:37:GLU:HG3	3:AO:150:TYR:CD2	2.36	0.41
5:CI:297:GLY:O	5:CI:320:ILE:HG22	2.20	0.41
1:AJ:305:SER:HB3	1:JS:28:ASP:HB3	2.02	0.41
1:BJ:370:ASP:OD2	1:gL:377:HIS:NE2	2.53	0.41
2:MJ:1:MET:CE	2:FS:53:PHE:O	2.68	0.41
2:MJ:11:MET:HE2	1:JS:372:VAL:HB	0.99	0.41
1:AK:278:GLY:H	1:AK:279:VAL:HG22	1.85	0.41
1:LK:62:LEU:HD13	2:NK:53:PHE:HE2	1.85	0.41
1:LK:355:TYR:HB3	1:LK:379:TYR:HB3	2.01	0.41
1:BL:260:GLN:HA	1:BL:260:GLN:NE2	2.36	0.41
1:IL:139:ARG:HD3	1:IQ:81:PHE:HD2	1.64	0.41
1:JL:55:PHE:HA	1:JL:56:PRO:HD3	1.90	0.41
1:LL:279:VAL:HG22	1:LL:318:THR:HA	2.02	0.41
1:RL:77:LYS:HB2	1:RL:353:LYS:HG2	2.02	0.41
1:YL:169:LYS:HG3	1:YL:172:ARG:HH21	1.86	0.41
5:DM:35:ARG:HH22	1:JS:111:ARG:CZ	2.33	0.41
5:DN:80:LEU:HD21	5:FN:84:PHE:CD2	2.55	0.41
5:NN:216:VAL:HG12	5:NN:217:GLN:HG3	2.03	0.41
5:ON:297:GLY:O	5:ON:320:ILE:HG22	2.20	0.41
3:AO:66:ILE:HG21	1:IS:150:ASN:ND2	2.35	0.41
3:AO:83:TYR:CB	2:LS:54:THR:HB	2.50	0.41
3:AO:271:ARG:HA	3:AO:274:THR:HG22	2.01	0.41
5:DO:55:LEU:H	5:DO:55:LEU:HG	1.62	0.41
5:NO:297:GLY:O	5:NO:320:ILE:HG22	2.20	0.41
1:AP:278:GLY:H	1:AP:279:VAL:HG22	1.86	0.41
1:BP:244:ASP:N	1:BP:244:ASP:OD1	2.50	0.41
1:LP:90:VAL:H	1:LP:117:ALA:HB3	1.85	0.41
1:CQ:354:ARG:HH11	1:CQ:354:ARG:HD3	1.74	0.41
1:BQ:209:GLN:NE2	1:BQ:235:LEU:HB2	2.36	0.41
1:BQ:259:PHE:C	1:BQ:260:GLN:CG	2.93	0.41
1:JQ:367:PRO:O	1:LQ:377:HIS:NE2	2.38	0.41
1:KQ:365:HIS:CD2	2:dR:10:MET:HG2	2.55	0.41
1:LQ:264:ILE:H	1:LQ:264:ILE:HG13	1.66	0.41
1:YQ:279:VAL:HG22	1:YQ:318:THR:HA	2.02	0.41
1:cQ:39:TRP:O	1:eQ:222:SER:OG	2.32	0.41
1:dQ:209:GLN:NE2	1:dQ:235:LEU:HB2	2.36	0.41
1:eQ:255:ILE:HA	1:eQ:258:THR:HG22	2.02	0.41
1:CR:321:VAL:HG21	1:CR:327:PHE:HE2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:240:ILE:HB	1:AR:270:VAL:HG22	2.02	0.41
1:DR:179:SER:HB2	1:DR:392:LEU:HG	2.02	0.41
1:JR:274:ASP:HB3	1:KR:210:ASN:HD22	1.86	0.41
1:QR:318:THR:O	1:QR:318:THR:CG2	2.67	0.41
1:aR:209:GLN:NE2	1:aR:235:LEU:HB2	2.36	0.41
1:CS:289:GLN:N	1:CS:326:GLU:OE2	2.43	0.41
2:GS:35:ASN:H	1:KS:209:GLN:HB3	1.86	0.41
1:IS:132:THR:HG21	1:JS:111:ARG:HA	2.03	0.41
1:IS:268:ASP:HA	2:MS:44:GLN:HB2	2.03	0.41
1:JS:242:THR:HG21	1:JS:246:LEU:HD12	2.02	0.41
1:C1:22:LEU:CD1	1:dQ:47:GLU:OE2	2.67	0.41
1:D1:385:SER:O	1:D1:390:LYS:NZ	2.48	0.41
1:R1:100:ASP:OD1	1:CS:27:HIS:O	2.39	0.41
2:W1:54:THR:HG22	2:NJ:1:MET:HE2	1.97	0.41
1:X1:184:SER:HB2	1:X1:219:HIS:CE1	2.55	0.41
1:Y1:271:ILE:HG22	2:e1:45:ILE:HD11	2.02	0.41
1:h1:365:HIS:CD2	2:F4:10:MET:HG2	2.55	0.41
2:m1:32:ILE:HD11	1:CQ:74:TRP:CE3	2.56	0.41
3:A2:258:LYS:CE	3:AB:311:ILE:CD1	2.98	0.41
3:A2:283:LYS:HZ1	3:AB:41:LEU:HB2	1.85	0.41
5:D2:80:LEU:HD21	5:F2:84:PHE:CD2	2.55	0.41
5:E2:21:ILE:HG22	5:E9:55:LEU:CD1	2.50	0.41
1:A3:367:PRO:O	1:D3:377:HIS:NE2	2.38	0.41
1:D3:264:ILE:H	1:D3:264:ILE:HG13	1.66	0.41
2:E3:33:ASP:O	2:E3:36:LYS:NZ	2.43	0.41
1:I3:28:ASP:O	1:RR:98:ASN:CB	2.68	0.41
1:I3:153:LEU:HD23	2:XR:2:TYR:CD2	2.56	0.41
1:I3:321:VAL:HG22	1:I3:327:PHE:CE2	2.51	0.41
1:J3:271:ILE:HG22	2:P3:45:ILE:HD11	2.02	0.41
1:C4:289:GLN:N	1:C4:326:GLU:OE2	2.46	0.41
1:A4:110:LYS:O	1:QG:130:LYS:NZ	2.41	0.41
1:A4:274:ASP:HB3	1:B4:210:ASN:HD22	1.86	0.41
1:D4:28:ASP:N	1:D4:28:ASP:OD1	2.54	0.41
1:J4:111:ARG:HG2	1:C8:132:THR:HG21	1.23	0.41
1:Q4:299:ALA:HB1	1:h8:226:ILE:HG22	2.02	0.41
1:R4:271:ILE:HG22	2:W4:45:ILE:HD11	2.02	0.41
1:T4:351:LYS:NZ	1:VE:60:GLU:OE2	2.43	0.41
1:T4:369:PHE:HB3	1:KS:101:LEU:CD2	2.51	0.41
1:X4:153:LEU:HD23	2:hE:2:TYR:CD2	2.56	0.41
1:Y4:264:ILE:H	1:Y4:264:ILE:HG13	1.76	0.41
1:Z4:209:GLN:NE2	1:Z4:235:LEU:HB2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h4:34:THR:HB	1:AL:383:ALA:HB2	2.02	0.41
1:h4:98:ASN:OD1	1:CD:30:SER:HB3	2.21	0.41
1:i4:369:PHE:HB3	1:LD:101:LEU:CD2	2.51	0.41
4:B5:192:THR:HA	4:BI:146:ALA:O	2.20	0.41
5:C5:297:GLY:O	5:C5:320:ILE:HG22	2.20	0.41
5:N5:216:VAL:HG12	5:N5:217:GLN:HG3	2.03	0.41
1:B6:365:HIS:CD2	2:dG:10:MET:HG2	2.55	0.41
1:J6:240:ILE:HB	1:J6:270:VAL:HG22	2.02	0.41
1:T6:159:LYS:NZ	1:LG:94:THR:OG1	2.34	0.41
1:Z6:98:ASN:CB	1:QQ:28:ASP:O	2.69	0.41
1:Z6:240:ILE:HG22	1:Z6:242:THR:HG23	2.03	0.41
1:a6:14:VAL:HA	1:SE:45:MET:HG2	2.01	0.41
1:b6:279:VAL:HG22	1:b6:318:THR:HA	2.02	0.41
1:g6:28:ASP:HA	1:AP:100:ASP:OD2	2.20	0.41
1:g6:33:TRP:CG	1:LP:174:MET:CB	2.72	0.41
1:g6:38:LYS:C	1:LP:222:SER:OG	2.64	0.41
1:g6:184:SER:HB2	1:g6:219:HIS:CE1	2.55	0.41
1:g6:362:PRO:HA	1:g6:363:PRO:HD3	1.85	0.41
1:i6:137:ASP:OD2	1:DJ:49:PHE:CB	2.55	0.41
1:j6:255:ILE:HA	1:j6:258:THR:HG22	2.02	0.41
1:A7:271:ILE:HG22	2:H7:45:ILE:HD11	2.02	0.41
1:K7:137:ASP:OD1	1:CQ:48:THR:HG22	2.17	0.41
1:S7:34:THR:HB	1:RL:383:ALA:HB2	2.02	0.41
1:T7:255:ILE:HA	1:T7:258:THR:HG22	2.02	0.41
2:X7:2:TYR:CD2	1:Y7:153:LEU:HD23	2.56	0.41
1:a7:209:GLN:NE2	1:a7:235:LEU:HB2	2.36	0.41
1:h7:383:ALA:HB2	1:SG:34:THR:HB	2.02	0.41
1:D8:28:ASP:OD1	1:D8:28:ASP:N	2.54	0.41
1:I8:48:THR:HG22	1:KR:137:ASP:OD1	2.17	0.41
1:R8:271:ILE:HG22	2:X8:45:ILE:HD11	2.02	0.41
2:V8:10:MET:HG2	1:SL:365:HIS:CD2	2.55	0.41
1:i8:33:TRP:CZ3	1:BD:316:VAL:HG11	2.56	0.41
2:l8:10:MET:HG2	1:KL:365:HIS:CD2	2.55	0.41
3:A9:25:ASN:ND2	5:DA:33:ASP:HA	2.36	0.41
3:A9:256:VAL:HG11	3:AA:271:ARG:HD3	2.03	0.41
4:B9:91:VAL:HG23	4:B9:94:PHE:HE1	1.84	0.41
4:B9:188:ASP:HB3	4:BA:151:ASN:HA	2.03	0.41
5:D9:80:LEU:HD21	5:F9:84:PHE:CD2	2.55	0.41
3:AA:104:GLN:HG3	2:MK:22:LYS:HG2	2.03	0.41
5:EB:62:ARG:HE	5:EF:14:ILE:HD13	1.85	0.41
5:OB:216:VAL:HG12	5:OB:217:GLN:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:151:ASN:HA	1:AP:56:PRO:O	2.21	0.41
3:AC:154:ILE:HG21	1:AP:144:THR:CG2	2.51	0.41
5:FC:25:ARG:HH12	5:DH:39:ASN:HD22	1.69	0.41
5:NC:297:GLY:O	5:NC:320:ILE:HG22	2.20	0.41
1:AD:61:THR:O	1:AD:62:LEU:C	2.62	0.41
1:AD:82:ILE:CG2	1:KK:143:GLN:C	2.93	0.41
1:AD:107:LEU:HD21	1:LD:303:TYR:HE2	1.85	0.41
1:AD:242:THR:OG1	1:AD:243:THR:N	2.53	0.41
1:AD:278:GLY:H	1:AD:279:VAL:HG22	1.85	0.41
1:KD:51:ASN:HD22	1:IS:116:MET:HG2	1.71	0.41
1:LD:33:TRP:HH2	1:DK:173:ALA:CB	1.84	0.41
1:DE:377:HIS:NE2	1:BP:367:PRO:O	2.45	0.41
1:BE:64:ILE:CG1	2:HE:53:PHE:CD2	2.95	0.41
1:BE:100:ASP:OD1	1:DJ:27:HIS:O	2.39	0.41
1:BE:240:ILE:HG22	1:BE:242:THR:HG23	2.03	0.41
1:CE:100:ASP:OD2	1:CP:26:ASN:O	2.39	0.41
1:FE:137:ASP:OD2	1:BP:49:PHE:CB	2.69	0.41
1:KE:153:LEU:HD23	2:PR:2:TYR:CD2	2.56	0.41
1:ME:14:VAL:HG21	1:QQ:14:VAL:HG23	1.94	0.41
1:NE:103:LYS:HD2	1:NE:103:LYS:HA	1.91	0.41
1:NE:255:ILE:HA	1:NE:258:THR:HG22	2.02	0.41
1:TE:274:ASP:HB3	1:UE:210:ASN:HD22	1.86	0.41
1:aE:318:THR:CG2	1:aE:318:THR:O	2.67	0.41
1:aE:321:VAL:HG21	1:aE:327:PHE:HE2	1.85	0.41
1:aE:372:VAL:HG12	2:XG:11:MET:SD	2.60	0.41
1:bE:55:PHE:HA	1:bE:56:PRO:HD3	1.90	0.41
1:cE:14:VAL:HA	1:CG:45:MET:HG2	2.02	0.41
1:cE:362:PRO:HA	1:cE:363:PRO:HD3	1.79	0.41
3:AF:153:ASP:CA	3:AF:156:ILE:HG22	2.50	0.41
5:DF:33:ASP:HA	3:AM:25:ASN:ND2	2.36	0.41
1:BG:260:GLN:HA	1:BG:260:GLN:NE2	2.36	0.41
1:KG:209:GLN:NE2	1:KG:235:LEU:HB2	2.36	0.41
1:KG:260:GLN:HA	1:KG:260:GLN:NE2	2.36	0.41
1:YG:82:ILE:CD1	1:DK:144:THR:O	2.68	0.41
1:aG:137:ASP:OD2	1:DK:50:VAL:HG23	2.21	0.41
2:fG:2:TYR:CD2	1:gG:153:LEU:HD23	2.56	0.41
1:iG:260:GLN:HA	1:iG:260:GLN:NE2	2.36	0.41
1:jG:279:VAL:HG22	1:jG:318:THR:HA	2.02	0.41
3:AH:111:ASP:N	2:MP:19:ARG:HH22	2.11	0.41
5:FH:25:ARG:HH12	5:DN:39:ASN:HD22	1.69	0.41
5:FH:31:PHE:CB	5:FN:46:TYR:CE1	2.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AI:112:ILE:CG1	2:MJ:7:MET:CB	2.99	0.41
3:AI:311:ILE:CD1	3:AO:258:LYS:CE	2.98	0.41
5:DI:80:LEU:HD21	5:FI:84:PHE:CD2	2.55	0.41
1:BJ:79:GLN:CD	1:BJ:81:PHE:H	2.29	0.41
1:DJ:119:LYS:HZ3	1:LP:38:LYS:HG2	1.56	0.41
1:KJ:372:VAL:C	2:MP:11:MET:CE	2.77	0.41
1:AK:194:LYS:HA	1:AK:340:LEU:HD11	2.02	0.41
1:BK:348:ASN:HB3	2:FK:50:LYS:HB2	2.02	0.41
1:CK:51:ASN:HB2	1:CK:54:LEU:HD23	2.03	0.41
1:CK:131:PHE:HE2	2:kR:8:ARG:HH22	1.67	0.41
1:LK:184:SER:HG	1:LK:219:HIS:CE1	2.36	0.41
8:QK:115:ALA:HB1	8:QK:118:ALA:HB3	2.03	0.41
1:AL:240:ILE:HB	1:AL:270:VAL:HG22	2.02	0.41
1:BL:137:ASP:OD1	1:YR:48:THR:HG22	2.17	0.41
1:DL:164:ASN:HD21	2:GL:25:GLU:H	1.66	0.41
1:KL:260:GLN:HA	1:KL:260:GLN:NE2	2.36	0.41
2:PL:32:ILE:HD11	1:YR:74:TRP:CE3	2.56	0.41
1:gL:279:VAL:HG22	1:gL:318:THR:HA	2.02	0.41
4:BN:117:GLU:N	4:BN:220:THR:O	2.51	0.41
5:NN:297:GLY:O	5:NN:320:ILE:HG22	2.20	0.41
1:AP:107:LEU:HD21	1:LP:303:TYR:HE2	1.85	0.41
1:AP:194:LYS:HA	1:AP:340:LEU:HD11	2.02	0.41
1:AP:274:ASP:N	1:AP:274:ASP:OD1	2.51	0.41
1:BP:209:GLN:HB3	2:FP:34:THR:HG22	2.02	0.41
1:CP:254:LYS:HE2	1:CP:254:LYS:HB2	1.75	0.41
1:KP:73:ASN:HD21	1:KP:354:ARG:HH12	1.69	0.41
1:LP:297:LEU:HB3	1:LP:302:ASP:HB3	2.01	0.41
1:LQ:265:ASP:N	1:LQ:265:ASP:OD1	2.48	0.41
1:SQ:150:ASN:ND2	2:NR:1:MET:H3	2.19	0.41
1:bQ:184:SER:HB2	1:bQ:219:HIS:CE1	2.55	0.41
1:cQ:279:VAL:HG13	1:cQ:318:THR:HA	2.02	0.41
1:dQ:259:PHE:C	1:dQ:260:GLN:CG	2.93	0.41
1:dQ:260:GLN:HA	1:dQ:260:GLN:NE2	2.36	0.41
1:eQ:103:LYS:HA	1:eQ:103:LYS:HD2	1.91	0.41
1:eQ:179:SER:HB2	1:eQ:392:LEU:HG	2.02	0.41
1:eQ:279:VAL:HG22	1:eQ:318:THR:HA	2.02	0.41
1:IR:206:LEU:CD1	1:KR:244:ASP:CG	2.94	0.41
1:LR:265:ASP:N	1:LR:265:ASP:OD1	2.48	0.41
1:RR:41:ASN:ND2	1:RR:54:LEU:O	2.46	0.41
1:TR:28:ASP:OD1	1:TR:28:ASP:N	2.53	0.41
1:TR:179:SER:HB2	1:TR:392:LEU:HG	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aR:259:PHE:C	1:aR:260:GLN:CG	2.93	0.41
1:iR:62:LEU:HD23	1:iR:62:LEU:HA	1.91	0.41
1:JS:279:VAL:HA	1:JS:318:THR:HA	2.02	0.41
1:C1:206:LEU:CD1	1:B1:244:ASP:CG	2.94	0.41
1:A1:101:LEU:N	1:f4:25:PHE:O	2.49	0.41
1:D1:279:VAL:HG22	1:D1:318:THR:HA	2.02	0.41
1:I1:206:LEU:CD1	1:K1:244:ASP:CG	2.94	0.41
1:L1:28:ASP:OD1	1:L1:28:ASP:N	2.54	0.41
1:R1:109:LEU:HD11	1:AJ:109:LEU:HG	2.03	0.41
1:S1:365:HIS:CD2	2:N3:10:MET:HG2	2.55	0.41
1:X1:302:ASP:CB	1:IR:29:TYR:OH	2.67	0.41
1:Z1:34:THR:HB	1:Z7:383:ALA:HB2	2.02	0.41
2:e1:2:TYR:CB	1:CL:150:ASN:OD1	2.53	0.41
1:f1:289:GLN:N	1:f1:326:GLU:OE2	2.46	0.41
1:h1:260:GLN:HA	1:h1:260:GLN:NE2	2.36	0.41
1:i1:279:VAL:HG22	1:i1:318:THR:HA	2.02	0.41
5:D2:60:ALA:HB1	5:EB:18:LEU:HD12	2.03	0.41
1:C3:299:ALA:HB1	1:h7:226:ILE:HG22	2.02	0.41
1:D3:94:THR:OG1	1:DQ:159:LYS:NZ	2.34	0.41
1:I3:130:LYS:NZ	1:R8:110:LYS:O	2.41	0.41
1:I3:204:ALA:C	1:I3:205:ILE:O	2.60	0.41
1:J3:98:ASN:CB	1:IG:28:ASP:O	2.69	0.41
1:J3:226:ILE:HG22	1:Q8:299:ALA:HB1	2.02	0.41
1:S3:209:GLN:NE2	1:S3:235:LEU:HB2	2.36	0.41
1:I4:28:ASP:O	1:R8:98:ASN:CB	2.69	0.41
1:J4:226:ILE:HG22	1:C8:299:ALA:HB1	2.02	0.41
1:K4:62:LEU:HD23	1:K4:62:LEU:HA	1.91	0.41
1:K4:209:GLN:NE2	1:K4:235:LEU:HB2	2.36	0.41
1:K4:260:GLN:HA	1:K4:260:GLN:NE2	2.36	0.41
1:Q4:169:LYS:HG3	1:Q4:172:ARG:HH21	1.86	0.41
1:R4:99:MET:SD	1:g8:128:LYS:HB2	2.60	0.41
1:X4:206:LEU:CD1	1:Z4:244:ASP:CG	2.94	0.41
1:X4:318:THR:O	1:X4:318:THR:CG2	2.67	0.41
1:Z4:260:GLN:HA	1:Z4:260:GLN:NE2	2.36	0.41
2:e4:2:TYR:CD2	1:bQ:153:LEU:HD23	2.56	0.41
3:A5:271:ARG:HD3	3:AN:256:VAL:HG11	2.03	0.41
5:D5:33:ASP:HA	3:AN:25:ASN:ND2	2.36	0.41
5:E5:140:ASP:OD2	5:C5:139:LYS:HE3	2.21	0.41
1:C6:22:LEU:CD1	1:iG:47:GLU:OE2	2.67	0.41
1:C6:206:LEU:CD1	1:B6:244:ASP:CG	2.94	0.41
1:D6:385:SER:O	1:D6:390:LYS:NZ	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J6:383:ALA:HB2	1:K8:34:THR:HB	2.02	0.41
1:L6:179:SER:HB2	1:L6:392:LEU:HG	2.02	0.41
1:L6:255:ILE:HA	1:L6:258:THR:HG22	2.02	0.41
1:Q6:28:ASP:HA	1:AJ:100:ASP:OD2	2.21	0.41
1:Q6:206:LEU:CD1	1:S6:244:ASP:CG	2.94	0.41
1:R6:41:ASN:ND2	1:R6:54:LEU:O	2.46	0.41
1:R6:98:ASN:CB	1:Q8:28:ASP:O	2.68	0.41
1:S6:33:TRP:CZ3	1:AS:316:VAL:HG11	2.56	0.41
1:T6:28:ASP:OD1	1:T6:28:ASP:N	2.53	0.41
1:a6:50:VAL:HG23	1:SE:137:ASP:HB3	2.01	0.41
1:g6:206:LEU:CD1	1:i6:244:ASP:CG	2.94	0.41
1:g6:321:VAL:HG21	1:g6:327:PHE:HE2	1.85	0.41
1:i6:34:THR:HB	1:BJ:383:ALA:HB2	2.03	0.41
1:i6:137:ASP:HB3	1:DJ:50:VAL:HG21	2.03	0.41
1:j6:325:LYS:HB2	1:j6:325:LYS:HZ3	1.80	0.41
1:C7:184:SER:HB2	1:C7:219:HIS:CE1	2.55	0.41
1:J7:240:ILE:HG22	1:J7:242:THR:HG23	2.03	0.41
1:J7:367:PRO:O	1:L7:377:HIS:NE2	2.38	0.41
1:J7:383:ALA:HB2	1:a8:34:THR:HB	2.02	0.41
1:S7:47:GLU:OE2	1:QR:22:LEU:CD1	2.67	0.41
1:T7:279:VAL:HG22	1:T7:318:THR:HA	2.02	0.41
1:Y7:22:LEU:CD1	1:SQ:47:GLU:OE2	2.67	0.41
1:Z7:226:ILE:HG22	1:IR:299:ALA:HB1	2.02	0.41
1:a7:137:ASP:OD1	1:KE:48:THR:HG22	2.17	0.41
1:g7:29:TYR:OH	1:AE:302:ASP:CB	2.67	0.41
1:g7:45:MET:HG2	1:CE:14:VAL:HA	2.01	0.41
1:h7:274:ASP:HB3	1:i7:210:ASN:HD22	1.86	0.41
1:j7:28:ASP:OD1	1:j7:28:ASP:N	2.54	0.41
1:j7:104:ASN:ND2	1:j7:106:GLU:OE2	2.53	0.41
1:j7:255:ILE:HA	1:j7:258:THR:HG22	2.02	0.41
1:C8:206:LEU:CD1	1:B8:244:ASP:CG	2.94	0.41
1:A8:362:PRO:HA	1:A8:363:PRO:HD3	1.83	0.41
1:D8:279:VAL:HG22	1:D8:318:THR:HA	2.02	0.41
1:I8:171:MET:HE3	1:I8:171:MET:HB3	1.87	0.41
2:N8:36:LYS:HE2	2:N8:36:LYS:HB3	1.94	0.41
2:d8:10:MET:HG2	1:BR:365:HIS:CD2	2.55	0.41
1:g8:169:LYS:HG3	1:g8:172:ARG:HH21	1.86	0.41
1:h8:274:ASP:HB3	1:i8:210:ASN:HD22	1.86	0.41
1:j8:172:ARG:NH1	1:j8:277:GLY:H	2.16	0.41
1:j8:255:ILE:HA	1:j8:258:THR:HG22	2.02	0.41
3:AA:202:ASN:HD22	5:DN:38:TYR:HB3	1.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:150:TYR:N	1:AD:145:LEU:C	2.55	0.41
3:AB:154:ILE:C	1:AD:135:ASN:ND2	2.79	0.41
4:BB:139:ASP:HB3	4:BF:200:SER:HB2	2.02	0.41
5:DB:33:ASP:HA	3:AF:25:ASN:ND2	2.36	0.41
5:DB:39:ASN:HD22	5:FF:25:ARG:HH12	1.69	0.41
5:CB:216:VAL:HG12	5:CB:217:GLN:HG3	2.03	0.41
3:AC:25:ASN:OD1	5:DH:33:ASP:HA	2.20	0.41
5:DC:104:ILE:HG22	5:FC:101:ILE:HD13	2.03	0.41
5:EC:21:ILE:HG22	5:EH:55:LEU:CD1	2.50	0.41
1:AD:43:ASN:CB	5:DF:25:ARG:C	2.94	0.41
1:AD:99:MET:HE2	1:YG:136:ASN:HD22	1.86	0.41
1:BD:261:ILE:HG21	1:BD:265:ASP:CG	2.40	0.41
1:DE:94:THR:OG1	1:FE:159:LYS:NZ	2.34	0.41
1:BE:274:ASP:HB3	1:CE:210:ASN:HD22	1.86	0.41
2:JE:2:TYR:O	1:DJ:153:LEU:HD23	2.21	0.41
2:JE:11:MET:HE2	1:DJ:372:VAL:HG21	2.02	0.41
1:KE:150:ASN:OD1	2:PR:2:TYR:CB	2.53	0.41
1:KE:206:LEU:CD1	1:ME:244:ASP:CG	2.94	0.41
1:TE:226:ILE:HG22	1:IQ:299:ALA:HB1	2.02	0.41
1:VE:28:ASP:OD1	1:VE:28:ASP:N	2.54	0.41
1:VE:104:ASN:ND2	1:VE:106:GLU:OE2	2.53	0.41
1:aE:74:TRP:CE3	2:HR:32:ILE:HD11	2.56	0.41
1:bE:64:ILE:CG1	2:fE:53:PHE:CD2	2.95	0.41
1:cE:260:GLN:HA	1:cE:260:GLN:NE2	2.36	0.41
1:dE:279:VAL:HG22	1:dE:318:THR:HA	2.02	0.41
1:CG:169:LYS:HG3	1:CG:172:ARG:HH21	1.86	0.41
1:CG:321:VAL:HG21	1:CG:327:PHE:HE2	1.85	0.41
1:DG:28:ASP:N	1:DG:28:ASP:OD1	2.53	0.41
1:DG:98:ASN:O	1:TG:304:GLN:NE2	2.48	0.41
1:DG:279:VAL:HG22	1:DG:318:THR:HA	2.02	0.41
1:IG:203:GLU:O	1:IG:205:ILE:O	2.39	0.41
1:QG:169:LYS:HG3	1:QG:172:ARG:HH21	1.86	0.41
1:SG:260:GLN:HA	1:SG:260:GLN:NE2	2.36	0.41
1:YG:12:LEU:HD21	1:YG:44:THR:HG22	2.01	0.41
1:YG:206:LEU:CD1	1:aG:244:ASP:CG	2.94	0.41
1:YG:318:THR:O	1:YG:318:THR:CG2	2.67	0.41
1:aG:209:GLN:NE2	1:aG:235:LEU:HB2	2.36	0.41
1:aG:260:GLN:HA	1:aG:260:GLN:NE2	2.36	0.41
1:hG:240:ILE:HB	1:hG:270:VAL:HG22	2.02	0.41
1:iG:259:PHE:C	1:iG:260:GLN:CG	2.93	0.41
5:CI:216:VAL:HG12	5:CI:217:GLN:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:NI:297:GLY:O	5:NI:320:ILE:HG22	2.20	0.41
1:AJ:123:ASN:HD21	1:JS:21:ALA:HB2	0.59	0.41
1:AJ:260:GLN:HB2	1:LJ:256:ALA:HA	2.03	0.41
1:AJ:278:GLY:H	1:AJ:279:VAL:HG22	1.85	0.41
1:DJ:294:ILE:HG22	1:DJ:298:ARG:HE	1.86	0.41
1:DJ:357:LYS:HG2	2:FJ:20:LEU:HD23	2.02	0.41
1:KJ:143:GLN:C	1:AP:82:ILE:CG2	2.93	0.41
2:MJ:36:LYS:HE2	2:MJ:36:LYS:HB3	1.86	0.41
1:CK:276:LEU:HD13	1:CK:276:LEU:HA	1.92	0.41
1:KK:182:GLN:HB3	1:KK:220:ARG:NH1	2.35	0.41
1:AL:240:ILE:HG22	1:AL:242:THR:HG23	2.03	0.41
2:XL:22:LYS:HG2	1:QR:360:LEU:HD21	1.95	0.41
1:YL:45:MET:HG2	1:SR:14:VAL:HA	2.02	0.41
1:aL:260:GLN:HA	1:aL:260:GLN:NE2	2.36	0.41
1:bL:255:ILE:HA	1:bL:258:THR:HG22	2.02	0.41
2:cL:45:ILE:HG13	2:cL:46:HIS:HB3	1.99	0.41
1:gL:255:ILE:HA	1:gL:258:THR:HG22	2.02	0.41
3:AM:258:LYS:CE	3:AO:311:ILE:CD1	2.98	0.41
5:DM:33:ASP:HA	3:AO:25:ASN:OD1	2.20	0.41
4:BN:188:ASP:OD1	4:BN:188:ASP:N	2.51	0.41
5:EN:136:SER:O	5:EN:140:ASP:N	2.50	0.41
5:EO:140:ASP:OD2	5:CO:139:LYS:HE3	2.21	0.41
1:KP:194:LYS:HB3	1:KP:194:LYS:HE2	1.82	0.41
1:CQ:203:GLU:O	1:CQ:205:ILE:O	2.39	0.41
2:MQ:44:GLN:HB3	2:MQ:45:ILE:H	1.63	0.41
1:RQ:98:ASN:CB	1:QR:28:ASP:O	2.69	0.41
1:BR:19:LYS:NZ	1:BR:37:ASP:OD1	2.37	0.41
1:QR:184:SER:HB2	1:QR:219:HIS:CE1	2.55	0.41
1:QR:206:LEU:CD1	1:SR:244:ASP:CG	2.94	0.41
1:TR:172:ARG:NH1	1:TR:277:GLY:H	2.16	0.41
1:ZR:274:ASP:HB3	1:aR:210:ASN:HD22	1.86	0.41
1:aR:362:PRO:HA	1:aR:363:PRO:HD3	1.79	0.41
1:bR:179:SER:HB2	1:bR:392:LEU:HG	2.02	0.41
1:hR:240:ILE:HB	1:hR:270:VAL:HG22	2.02	0.41
1:jR:179:SER:HB2	1:jR:392:LEU:HG	2.02	0.41
1:jR:255:ILE:HA	1:jR:258:THR:HG22	2.02	0.41
1:AS:167:GLU:HA	1:AS:170:GLU:HG3	2.01	0.41
1:AS:209:GLN:HB3	2:ES:34:THR:HG22	2.02	0.41
1:IS:293:SER:HA	1:IS:324:LEU:HD13	2.00	0.41
1:JS:206:LEU:HD23	1:JS:209:GLN:HE21	1.85	0.41
1:C1:289:GLN:N	1:C1:326:GLU:OE2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:318:THR:O	1:C1:318:THR:CG2	2.67	0.41
2:H1:11:MET:HE3	1:f4:372:VAL:CG1	2.51	0.41
1:I1:137:ASP:HB3	1:UE:50:VAL:HG23	2.01	0.41
1:I1:153:LEU:HD23	2:PQ:2:TYR:CD2	2.56	0.41
1:I1:314:GLY:O	1:Y6:31:LYS:HG3	2.21	0.41
1:I1:360:LEU:HD21	2:PG:22:LYS:HG2	1.95	0.41
1:J1:271:ILE:HG22	2:P1:45:ILE:HD11	2.02	0.41
1:X1:314:GLY:O	1:IR:31:LYS:HG3	2.21	0.41
1:Y1:226:ILE:HG22	1:I6:299:ALA:HB1	2.02	0.41
1:Z1:209:GLN:NE2	1:Z1:235:LEU:HB2	2.36	0.41
1:f1:203:GLU:O	1:f1:205:ILE:O	2.39	0.41
1:h1:54:LEU:HD13	1:QG:141:ASN:HB3	2.03	0.41
2:m1:11:MET:HE3	1:gR:372:VAL:CG1	2.51	0.41
3:A2:83:TYR:O	1:KK:359:MET:HG3	2.20	0.41
3:A2:202:ASN:HD22	5:DC:38:TYR:HB3	1.78	0.41
5:D2:104:ILE:O	5:D2:108:GLU:CB	2.68	0.41
5:D2:104:ILE:HG22	5:F2:101:ILE:HD13	2.03	0.41
5:E2:55:LEU:CD1	5:EB:21:ILE:HG22	2.50	0.41
1:D3:265:ASP:N	1:D3:265:ASP:OD1	2.48	0.41
1:D3:304:GLN:NE2	1:FE:98:ASN:O	2.48	0.41
1:I3:141:ASN:HB3	1:SL:54:LEU:HD13	2.03	0.41
1:I3:184:SER:HB2	1:I3:219:HIS:CE1	2.55	0.41
1:I3:360:LEU:HD21	2:X8:22:LYS:HG2	1.94	0.41
1:L3:179:SER:HB2	1:L3:392:LEU:HG	2.02	0.41
1:Y3:179:SER:HB2	1:Y3:392:LEU:HG	2.02	0.41
1:b3:369:PHE:HB2	1:b3:371:GLU:HG2	2.03	0.41
1:b3:377:HIS:NE2	1:BD:370:ASP:OD2	2.53	0.41
1:C4:169:LYS:HG3	1:C4:172:ARG:HH21	1.86	0.41
1:C4:209:GLN:HE22	1:C4:235:LEU:HB2	1.84	0.41
1:D4:172:ARG:NH1	1:D4:277:GLY:H	2.16	0.41
1:I4:158:LYS:HZ1	1:A8:93:ASP:CG	2.27	0.41
1:I4:184:SER:HB2	1:I4:219:HIS:CE1	2.55	0.41
1:I4:203:GLU:O	1:I4:205:ILE:O	2.39	0.41
1:I4:206:LEU:CD1	1:K4:244:ASP:CG	2.94	0.41
1:S4:150:ASN:HD21	2:XE:1:MET:H3	1.65	0.41
1:S4:260:GLN:HA	1:S4:260:GLN:NE2	2.36	0.41
1:X4:31:LYS:HG3	1:CR:314:GLY:O	2.21	0.41
1:Y4:240:ILE:HB	1:Y4:270:VAL:HG22	2.02	0.41
1:a4:369:PHE:HB2	1:a4:371:GLU:HG2	2.03	0.41
1:g4:109:LEU:HD12	1:AD:106:GLU:CB	2.50	0.41
1:h4:54:LEU:HD13	1:gG:141:ASN:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i4:136:ASN:C	1:CD:81:PHE:HZ	2.28	0.41
1:i4:137:ASP:OD2	1:BD:49:PHE:CB	2.69	0.41
3:A5:79:MET:HB3	3:A5:79:MET:HE2	1.82	0.41
4:B5:91:VAL:HG23	4:B5:94:PHE:HE1	1.84	0.41
4:B5:188:ASP:HB3	4:BI:151:ASN:HA	2.03	0.41
1:C6:45:MET:HG2	1:iG:14:VAL:HA	2.02	0.41
1:C6:318:THR:O	1:C6:318:THR:CG2	2.67	0.41
2:H6:11:MET:HE3	1:Y8:372:VAL:CG1	2.51	0.41
1:I6:81:PHE:CE2	1:CL:139:ARG:CD	2.71	0.41
1:I6:169:LYS:HG3	1:I6:172:ARG:HH21	1.86	0.41
1:I6:372:VAL:CG1	2:PL:11:MET:HE3	2.51	0.41
1:I6:372:VAL:HG12	2:PL:11:MET:SD	2.60	0.41
1:Q6:184:SER:HB2	1:Q6:219:HIS:CE1	2.55	0.41
1:Q6:289:GLN:N	1:Q6:326:GLU:OE2	2.46	0.41
1:S6:14:VAL:O	1:CS:44:THR:HA	2.21	0.41
1:T6:255:ILE:HA	1:T6:258:THR:HG22	2.02	0.41
1:Z6:274:ASP:HB3	1:a6:210:ASN:HD22	1.86	0.41
1:b6:159:LYS:NZ	1:b7:94:THR:OG1	2.34	0.41
1:h6:347:ILE:HD12	1:h6:347:ILE:HA	1.92	0.41
1:i6:21:ALA:HA	1:BJ:123:ASN:ND2	2.36	0.41
1:j6:103:LYS:HD2	1:j6:103:LYS:HA	1.91	0.41
1:j6:325:LYS:NZ	1:j6:325:LYS:CB	2.73	0.41
1:C7:37:ASP:OD1	1:LK:120:LEU:O	2.39	0.41
1:A7:101:LEU:N	1:I7:25:PHE:O	2.49	0.41
1:A7:226:ILE:HG22	1:gR:299:ALA:HB1	2.02	0.41
1:B7:33:TRP:CZ3	1:BP:316:VAL:HG11	2.56	0.41
1:I7:74:TRP:CE3	2:iQ:32:ILE:HD11	2.56	0.41
1:L7:164:ASN:HD21	2:O7:25:GLU:H	1.66	0.41
1:L7:255:ILE:HA	1:L7:258:THR:HG22	2.02	0.41
1:Q7:203:GLU:O	1:Q7:205:ILE:O	2.39	0.41
1:Q7:204:ALA:C	1:Q7:205:ILE:O	2.61	0.41
1:R7:55:PHE:O	1:R7:57:LYS:NZ	2.46	0.41
1:R7:124:GLY:H	1:R7:379:TYR:HH	1.66	0.41
1:Y7:169:LYS:HG3	1:Y7:172:ARG:HH21	1.86	0.41
1:Z7:77:LYS:HB2	1:Z7:353:LYS:HG2	2.02	0.41
1:b7:179:SER:HB2	1:b7:392:LEU:HG	2.02	0.41
2:f7:22:LYS:HG2	1:IR:360:LEU:HD21	1.94	0.41
1:g7:137:ASP:HB3	1:CE:50:VAL:HG23	2.01	0.41
1:g7:289:GLN:N	1:g7:326:GLU:OE2	2.46	0.41
1:h7:77:LYS:HB2	1:h7:353:LYS:HG2	2.02	0.41
1:h7:240:ILE:HB	1:h7:270:VAL:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i7:260:GLN:HA	1:i7:260:GLN:NE2	2.36	0.41
1:C8:314:GLY:O	1:AE:31:LYS:HG3	2.21	0.41
1:C8:321:VAL:HG21	1:C8:327:PHE:HE2	1.85	0.41
1:A8:264:ILE:H	1:A8:264:ILE:HG13	1.76	0.41
1:D8:179:SER:HB2	1:D8:392:LEU:HG	2.02	0.41
1:J8:271:ILE:HG22	2:P8:45:ILE:HD11	2.02	0.41
2:P8:2:TYR:CB	1:CR:150:ASN:OD1	2.53	0.41
1:Q8:321:VAL:HG21	1:Q8:327:PHE:HE2	1.85	0.41
1:R8:144:THR:HG22	1:R8:146:ALA:H	1.84	0.41
1:R8:205:ILE:HD11	1:R8:240:ILE:HD11	2.01	0.41
1:Z8:274:ASP:HB3	1:a8:210:ASN:HD22	1.86	0.41
1:b8:304:GLN:NE2	1:DR:98:ASN:O	2.48	0.41
3:A9:190:ASP:HA	3:A9:193:ILE:HG22	2.03	0.41
5:D9:104:ILE:HG22	5:F9:101:ILE:HD13	2.03	0.41
5:E9:21:ILE:HG22	5:EA:55:LEU:CD1	2.50	0.41
5:C9:244:ALA:HB3	5:OA:351:ASN:O	2.20	0.41
3:AA:156:ILE:HD11	3:AA:160:TYR:CE2	2.56	0.41
3:AA:174:LEU:HA	3:AA:174:LEU:HD12	1.87	0.41
3:AB:113:TYR:HA	2:MD:22:LYS:CB	2.47	0.41
3:AB:152:SER:CB	1:AD:135:ASN:ND2	2.80	0.41
3:AB:153:ASP:CA	3:AB:156:ILE:HG22	2.50	0.41
5:NB:297:GLY:O	5:NB:320:ILE:HG22	2.20	0.41
3:AC:153:ASP:CA	3:AC:156:ILE:HG22	2.50	0.41
3:AC:256:VAL:HG11	3:AH:271:ARG:HD3	2.03	0.41
4:BC:91:VAL:HG23	4:BC:94:PHE:HE1	1.84	0.41
5:DC:105:ILE:HG22	5:EC:104:ILE:HD11	2.02	0.41
1:AD:57:LYS:CB	3:AF:154:ILE:HB	2.49	0.41
1:AD:222:SER:OG	1:KK:39:TRP:C	2.61	0.41
1:BD:79:GLN:CD	1:BD:81:PHE:H	2.29	0.41
1:KD:45:MET:HG3	1:KS:14:VAL:HA	1.32	0.41
1:DE:179:SER:HB2	1:DE:392:LEU:HG	2.02	0.41
1:AE:169:LYS:HG3	1:AE:172:ARG:HH21	1.86	0.41
1:AE:362:PRO:HA	1:AE:363:PRO:HD3	1.84	0.41
1:KE:321:VAL:HG21	1:KE:327:PHE:HE2	1.85	0.41
1:dE:172:ARG:NH1	1:dE:277:GLY:H	2.16	0.41
4:BF:91:VAL:HG23	4:BF:94:PHE:HE1	1.84	0.41
4:BF:146:ALA:O	4:BM:192:THR:HA	2.20	0.41
1:CG:153:LEU:HD23	2:HR:2:TYR:CD2	2.56	0.41
1:CG:283:THR:N	1:CG:330:ASN:O	2.44	0.41
1:AG:205:ILE:HD11	1:AG:240:ILE:HD11	2.01	0.41
1:AG:271:ILE:HG22	2:HG:45:ILE:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:325:LYS:NZ	1:DG:325:LYS:CB	2.73	0.41
1:IG:184:SER:HB2	1:IG:219:HIS:CE1	2.55	0.41
1:bG:369:PHE:HB2	1:bG:371:GLU:HG2	2.03	0.41
1:hG:77:LYS:HB2	1:hG:353:LYS:HG2	2.02	0.41
1:jG:369:PHE:HB2	1:jG:371:GLU:HG2	2.03	0.41
2:nG:32:ILE:HD11	1:CL:74:TRP:CE3	2.56	0.41
3:AH:25:ASN:OD1	5:DN:33:ASP:HA	2.20	0.41
4:BH:91:VAL:HG23	4:BH:94:PHE:HE1	1.84	0.41
5:EH:140:ASP:OD2	5:CH:139:LYS:HE3	2.21	0.41
5:CH:216:VAL:HG12	5:CH:217:GLN:HG3	2.03	0.41
3:AI:174:LEU:HA	3:AI:174:LEU:HD12	1.87	0.41
4:BI:86:ILE:HD12	4:BI:86:ILE:HA	1.91	0.41
4:BI:117:GLU:N	4:BI:220:THR:O	2.51	0.41
4:BI:188:ASP:HB3	4:BO:151:ASN:HA	2.03	0.41
5:FI:25:ARG:HH12	5:DO:39:ASN:HD22	1.69	0.41
5:OI:297:GLY:O	5:OI:320:ILE:HG22	2.20	0.41
1:AJ:242:THR:OG1	1:AJ:243:THR:N	2.53	0.41
1:AJ:280:PHE:HB2	1:AJ:317:PHE:HB2	2.03	0.41
1:AJ:297:LEU:HD12	1:JS:29:TYR:OH	2.00	0.41
1:BJ:127:LYS:O	1:BJ:377:HIS:HA	2.21	0.41
1:BJ:242:THR:HG21	1:BJ:246:LEU:HD12	2.03	0.41
1:KJ:285:GLU:HG2	1:KJ:312:PRO:HA	2.02	0.41
8:QJ:115:ALA:HB1	8:QJ:118:ALA:HB3	2.03	0.41
1:AK:242:THR:OG1	1:AK:243:THR:N	2.53	0.41
1:AK:260:GLN:HB2	1:LK:256:ALA:HA	2.03	0.41
1:DK:294:ILE:HG22	1:DK:298:ARG:HE	1.86	0.41
1:KK:107:LEU:HB2	1:KP:369:PHE:HZ	1.85	0.41
1:LK:48:THR:N	1:KP:22:LEU:CD2	2.84	0.41
1:CL:184:SER:HB2	1:CL:219:HIS:CE1	2.55	0.41
1:CL:321:VAL:HG21	1:CL:327:PHE:HE2	1.85	0.41
1:AL:119:LYS:HA	1:AL:119:LYS:HD3	1.89	0.41
1:JL:279:VAL:HG13	1:JL:318:THR:HA	2.02	0.41
1:RL:274:ASP:HB3	1:SL:210:ASN:HD22	1.86	0.41
1:YL:362:PRO:HA	1:YL:363:PRO:HD3	1.85	0.41
1:bL:103:LYS:HD2	1:bL:103:LYS:HA	1.91	0.41
1:gL:103:LYS:HD2	1:gL:103:LYS:HA	1.91	0.41
3:AM:106:ARG:O	2:LS:21:ASN:ND2	2.54	0.41
5:NM:216:VAL:HG12	5:NM:217:GLN:HG3	2.03	0.41
3:AN:271:ARG:HA	3:AN:274:THR:HG22	2.01	0.41
5:DN:105:ILE:HG22	5:EN:104:ILE:HD11	2.02	0.41
5:FN:102:ASP:HA	5:FN:105:ILE:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AO:155:GLU:CD	1:IS:143:GLN:CG	2.91	0.41
2:EP:36:LYS:HB3	2:EP:36:LYS:HE2	1.82	0.41
1:LP:80:ASP:OD1	1:LP:80:ASP:N	2.53	0.41
1:BQ:50:VAL:HG23	1:gR:137:ASP:HB3	2.01	0.41
1:DQ:179:SER:HB2	1:DQ:392:LEU:HG	2.02	0.41
1:IQ:362:PRO:HA	1:IQ:363:PRO:HD3	1.85	0.41
1:QQ:206:LEU:CD1	1:SQ:244:ASP:CG	2.94	0.41
1:SQ:209:GLN:NE2	1:SQ:235:LEU:HB2	2.36	0.41
1:YQ:28:ASP:N	1:YQ:28:ASP:OD1	2.53	0.41
1:YQ:222:SER:OG	1:AS:39:TRP:O	2.29	0.41
1:cQ:77:LYS:HB2	1:cQ:353:LYS:HG2	2.02	0.41
1:cQ:240:ILE:HB	1:cQ:270:VAL:HG22	2.02	0.41
1:eQ:369:PHE:HB2	1:eQ:371:GLU:HG2	2.03	0.41
1:DR:369:PHE:HB2	1:DR:371:GLU:HG2	2.03	0.41
1:IR:169:LYS:HG3	1:IR:172:ARG:HH21	1.86	0.41
1:IR:184:SER:HB2	1:IR:219:HIS:CE1	2.55	0.41
1:JR:77:LYS:HB2	1:JR:353:LYS:HG2	2.02	0.41
1:JR:347:ILE:HD12	1:JR:347:ILE:HA	1.92	0.41
1:YR:203:GLU:O	1:YR:205:ILE:O	2.39	0.41
1:BS:51:ASN:HB2	1:BS:54:LEU:HD23	2.03	0.41
1:IS:71:ARG:H	2:LS:26:LEU:HD13	1.85	0.41
8:QS:115:ALA:HB1	8:QS:118:ALA:HB3	2.03	0.41
1:C1:45:MET:HG2	1:dQ:14:VAL:HA	2.02	0.41
1:C1:299:ALA:HB1	1:A6:226:ILE:HG22	2.02	0.41
1:C1:372:VAL:CG1	2:P7:11:MET:HE3	2.51	0.41
1:A1:226:ILE:HG22	1:C6:299:ALA:HB1	2.02	0.41
1:I1:299:ALA:HB1	1:JG:226:ILE:HG22	2.02	0.41
1:I1:321:VAL:HG21	1:I1:327:PHE:HE2	1.85	0.41
1:I1:372:VAL:CG1	2:PQ:11:MET:HE3	2.51	0.41
1:J1:55:PHE:HA	1:J1:56:PRO:HD3	1.90	0.41
1:J1:383:ALA:HB2	1:S8:34:THR:HB	2.02	0.41
1:L1:179:SER:HB2	1:L1:392:LEU:HG	2.02	0.41
1:Q1:14:VAL:HG23	1:KG:14:VAL:HG23	1.97	0.41
1:Q1:184:SER:HB2	1:Q1:219:HIS:CE1	2.55	0.41
1:Q1:203:GLU:O	1:Q1:205:ILE:O	2.39	0.41
1:R1:99:MET:SD	1:Q6:128:LYS:HB2	2.60	0.41
1:R1:274:ASP:HB3	1:S1:210:ASN:HD22	1.86	0.41
1:S1:34:THR:HB	1:J3:383:ALA:HB2	2.02	0.41
1:S1:54:LEU:HD13	1:Q8:141:ASN:HB3	2.03	0.41
1:S1:98:ASN:OD1	1:CJ:30:SER:HB3	2.21	0.41
1:S1:209:GLN:NE2	1:S1:235:LEU:HB2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S1:260:GLN:HA	1:S1:260:GLN:NE2	2.36	0.41
2:W1:45:ILE:HG23	2:W1:46:HIS:CG	2.56	0.41
1:X1:31:LYS:HG3	1:I8:314:GLY:O	2.21	0.41
1:X1:153:LEU:HD23	2:X3:2:TYR:CD2	2.56	0.41
1:X1:321:VAL:HG21	1:X1:327:PHE:HE2	1.85	0.41
1:f1:31:LYS:HG3	1:C3:314:GLY:O	2.21	0.41
1:f1:141:ASN:HB3	1:B3:54:LEU:HD13	2.03	0.41
1:g1:101:LEU:N	1:gR:25:PHE:O	2.49	0.41
1:g1:271:ILE:HG22	2:m1:45:ILE:HD11	2.02	0.41
1:g1:279:VAL:HG13	1:g1:318:THR:HA	2.02	0.41
1:i1:28:ASP:OD1	1:i1:28:ASP:N	2.53	0.41
2:m1:11:MET:SD	1:gR:372:VAL:HG12	2.60	0.41
3:A2:25:ASN:ND2	5:D9:33:ASP:HA	2.36	0.41
4:B2:10:ASP:OD2	5:F9:38:TYR:OH	2.25	0.41
5:D2:101:ILE:HA	5:D2:104:ILE:HG12	2.03	0.41
5:N2:216:VAL:HG12	5:N2:217:GLN:HG3	2.03	0.41
5:N2:230:SER:C	5:CB:266:THR:CB	2.89	0.41
5:O2:351:ASN:O	5:CB:244:ALA:HB3	2.20	0.41
1:D3:279:VAL:HG22	1:D3:318:THR:HA	2.02	0.41
2:H3:2:TYR:CD2	1:C8:153:LEU:HD23	2.56	0.41
2:H3:11:MET:HE3	1:C8:372:VAL:CG1	2.51	0.41
1:I3:299:ALA:HB1	1:R8:226:ILE:HG22	2.02	0.41
1:I3:321:VAL:HG21	1:I3:327:PHE:HE2	1.85	0.41
1:J3:144:THR:HG22	1:J3:146:ALA:H	1.84	0.41
1:J3:205:ILE:HD11	1:J3:240:ILE:HD11	2.01	0.41
1:K3:34:THR:HB	1:A8:383:ALA:HB2	2.02	0.41
1:K3:47:GLU:OE2	1:I4:22:LEU:CD1	2.67	0.41
1:K3:62:LEU:HD23	1:K3:62:LEU:HA	1.91	0.41
1:K3:209:GLN:NE2	1:K3:235:LEU:HB2	2.36	0.41
1:Q3:12:LEU:HD21	1:Q3:44:THR:HG22	2.01	0.41
1:Q3:28:ASP:O	1:Z8:98:ASN:CB	2.69	0.41
1:Q3:153:LEU:HD23	2:f8:2:TYR:CD2	2.56	0.41
1:Q3:169:LYS:HG3	1:Q3:172:ARG:HH21	1.86	0.41
1:Q3:206:LEU:CD1	1:S3:244:ASP:CG	2.94	0.41
1:Q3:372:VAL:CG1	2:f8:11:MET:HE3	2.51	0.41
1:R3:240:ILE:HB	1:R3:270:VAL:HG22	2.02	0.41
1:S3:54:LEU:HD13	1:CR:141:ASN:HB3	2.03	0.41
1:S3:260:GLN:HA	1:S3:260:GLN:NE2	2.36	0.41
1:T3:179:SER:HB2	1:T3:392:LEU:HG	2.02	0.41
2:X3:45:ILE:HG23	2:X3:46:HIS:CG	2.56	0.41
1:C4:141:ASN:HB3	1:BG:54:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C4:206:LEU:CD1	1:B4:244:ASP:CG	2.94	0.41
1:C4:321:VAL:HG21	1:C4:327:PHE:HE2	1.85	0.41
1:A4:240:ILE:HG22	1:A4:242:THR:HG23	2.03	0.41
1:B4:39:TRP:O	1:AR:222:SER:OG	2.33	0.41
1:B4:54:LEU:HD13	1:aE:141:ASN:HB3	2.03	0.41
1:B4:365:HIS:CD2	2:FR:10:MET:HG2	2.55	0.41
1:D4:255:ILE:HA	1:D4:258:THR:HG22	2.02	0.41
2:H4:45:ILE:HG23	2:H4:46:HIS:CG	2.56	0.41
1:I4:132:THR:HG21	1:A8:111:ARG:HG2	1.23	0.41
1:J4:271:ILE:HG22	2:P4:45:ILE:HD11	2.02	0.41
1:J4:274:ASP:HB3	1:K4:210:ASN:HD22	1.86	0.41
1:K4:14:VAL:HG23	1:QL:14:VAL:HG23	1.97	0.41
1:L4:98:ASN:O	1:TR:304:GLN:NE2	2.48	0.41
1:Q4:141:ASN:HB3	1:KL:54:LEU:HD13	2.03	0.41
1:S4:98:ASN:OD1	1:BS:30:SER:HB3	2.21	0.41
1:S4:360:LEU:HD13	1:S4:360:LEU:HA	1.98	0.41
1:T4:99:MET:HE3	1:T4:99:MET:HB2	1.97	0.41
1:T4:304:GLN:NE2	1:YQ:98:ASN:O	2.48	0.41
2:U4:15:TYR:CE2	1:BS:133:LEU:HD23	2.52	0.41
1:X4:12:LEU:HD21	1:X4:44:THR:HG22	2.01	0.41
1:X4:141:ASN:HB3	1:BR:54:LEU:HD13	2.03	0.41
1:X4:171:MET:HE3	1:X4:171:MET:HB3	1.88	0.41
1:X4:206:LEU:HD12	1:Z4:244:ASP:CG	2.45	0.41
1:Y4:168:GLU:OE2	1:Z4:211:ASN:ND2	2.38	0.41
1:Y4:347:ILE:HD12	1:Y4:347:ILE:HA	1.92	0.41
1:Z4:19:LYS:NZ	1:Z4:37:ASP:OD1	2.37	0.41
2:e4:45:ILE:HG23	2:e4:46:HIS:CG	2.56	0.41
1:g4:87:GLU:CD	1:CD:55:PHE:N	2.72	0.41
1:g4:222:SER:HA	1:CD:38:LYS:CE	1.90	0.41
1:g4:222:SER:HG	1:CD:53:TYR:HD1	1.68	0.41
1:g4:274:ASP:HB3	1:h4:210:ASN:HD22	1.86	0.41
1:h4:47:GLU:OE2	1:gG:22:LEU:CD1	2.67	0.41
1:h4:100:ASP:OD2	1:CD:26:ASN:O	2.39	0.41
1:i4:369:PHE:HB2	1:i4:371:GLU:HG2	2.03	0.41
2:j4:11:MET:HG3	1:CD:133:LEU:HD22	1.84	0.41
3:A5:17:SER:C	5:DI:38:TYR:HH	2.29	0.41
3:A5:25:ASN:ND2	5:DI:33:ASP:HA	2.36	0.41
3:A5:156:ILE:HD11	3:A5:160:TYR:CE2	2.56	0.41
4:B5:3:ARG:CB	3:AH:194:ASN:HD22	2.12	0.41
5:D5:39:ASN:HD22	5:FN:25:ARG:HH12	1.69	0.41
5:F5:25:ARG:HH12	5:DI:39:ASN:HD22	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F5:102:ASP:HA	5:F5:105:ILE:HG22	2.03	0.41
5:O5:297:GLY:O	5:O5:320:ILE:HG22	2.20	0.41
1:C6:204:ALA:C	1:C6:205:ILE:O	2.60	0.41
1:C6:372:VAL:CG1	2:HL:11:MET:HE3	2.51	0.41
1:A6:101:LEU:N	1:Y8:25:PHE:O	2.49	0.41
2:H6:45:ILE:HG23	2:H6:46:HIS:CG	2.56	0.41
1:I6:31:LYS:HG3	1:YR:314:GLY:O	2.21	0.41
1:I6:137:ASP:HB3	1:aR:50:VAL:HG23	2.01	0.41
1:I6:139:ARG:CD	1:YR:81:PHE:CE2	2.71	0.41
1:I6:203:GLU:O	1:I6:205:ILE:O	2.39	0.41
2:P6:11:MET:HE3	1:IR:372:VAL:CG1	2.51	0.41
1:Q6:37:ASP:OD1	1:LJ:120:LEU:O	2.39	0.41
1:Q6:82:ILE:CD1	1:CS:144:THR:O	2.68	0.41
1:Q6:118:THR:HG21	1:CS:54:LEU:HA	2.03	0.41
1:R6:77:LYS:HB2	1:R6:353:LYS:HG2	2.02	0.41
1:R6:271:ILE:HG22	2:X6:45:ILE:HD11	2.02	0.41
1:T6:172:ARG:NH1	1:T6:277:GLY:H	2.16	0.41
1:T6:304:GLN:NE2	1:LG:98:ASN:O	2.48	0.41
2:V6:22:LYS:HD2	2:V6:22:LYS:HA	1.73	0.41
1:Y6:153:LEU:HD23	2:PG:2:TYR:CD2	2.56	0.41
1:Y6:169:LYS:HG3	1:Y6:172:ARG:HH21	1.86	0.41
1:Y6:184:SER:HB2	1:Y6:219:HIS:CE1	2.55	0.41
1:Y6:302:ASP:CB	1:SE:29:TYR:OH	2.67	0.41
1:Y6:314:GLY:O	1:SE:31:LYS:HG3	2.21	0.41
1:a6:260:GLN:HA	1:a6:260:GLN:NE2	2.36	0.41
2:f6:2:TYR:OH	1:QQ:157:LYS:NZ	2.53	0.41
1:i6:14:VAL:O	1:DJ:44:THR:HA	2.21	0.41
1:i6:45:MET:HB2	1:DJ:16:LYS:HB3	1.89	0.41
1:i6:135:ASN:O	1:BJ:81:PHE:CZ	2.74	0.41
1:i6:137:ASP:OD2	1:DJ:50:VAL:HG23	2.21	0.41
2:n6:11:MET:HG3	1:g7:372:VAL:CG1	2.45	0.41
2:n6:45:ILE:HG23	2:n6:46:HIS:CG	2.56	0.41
1:C7:25:PHE:HE1	1:LK:126:VAL:CG1	2.33	0.41
1:B7:21:ALA:HA	1:BP:123:ASN:ND2	2.36	0.41
1:B7:135:ASN:O	1:BP:81:PHE:CZ	2.74	0.41
1:B7:209:GLN:NE2	1:B7:235:LEU:HB2	2.36	0.41
1:I7:169:LYS:HG3	1:I7:172:ARG:HH21	1.86	0.41
1:I7:184:SER:HB2	1:I7:219:HIS:CE1	2.55	0.41
1:I7:321:VAL:HG21	1:I7:327:PHE:HE2	1.85	0.41
1:K7:54:LEU:HD13	1:CQ:141:ASN:HB3	2.03	0.41
1:Q7:63:LEU:HD13	1:RQ:89:TYR:CZ	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q7:141:ASN:HB3	1:aL:54:LEU:HD13	2.03	0.41
1:Q7:169:LYS:HG3	1:Q7:172:ARG:HH21	1.86	0.41
1:Y7:31:LYS:HG3	1:QQ:314:GLY:O	2.21	0.41
2:f7:45:ILE:HG23	2:f7:46:HIS:CG	2.56	0.41
1:g7:31:LYS:HG3	1:AE:314:GLY:O	2.21	0.41
1:g7:209:GLN:HE22	1:g7:235:LEU:HB2	1.84	0.41
1:i7:50:VAL:HG23	1:C8:137:ASP:HB3	2.01	0.41
1:A8:271:ILE:HG22	2:H8:45:ILE:HD11	2.02	0.41
1:I8:203:GLU:O	1:I8:205:ILE:O	2.39	0.41
1:J8:77:LYS:HB2	1:J8:353:LYS:HG2	2.02	0.41
1:K8:260:GLN:HA	1:K8:260:GLN:NE2	2.36	0.41
1:L8:179:SER:HB2	1:L8:392:LEU:HG	2.02	0.41
1:Q8:184:SER:HB2	1:Q8:219:HIS:CE1	2.55	0.41
1:Q8:204:ALA:C	1:Q8:205:ILE:O	2.60	0.41
1:Q8:206:LEU:CD1	1:S8:244:ASP:CG	2.94	0.41
1:R8:383:ALA:HB2	1:SL:34:THR:HB	2.02	0.41
1:S8:14:VAL:HG23	1:IG:14:VAL:HG23	1.97	0.41
1:S8:47:GLU:OE2	1:IG:22:LEU:CD1	2.67	0.41
1:S8:209:GLN:NE2	1:S8:235:LEU:HB2	2.36	0.41
1:T8:82:ILE:HD13	1:T8:82:ILE:HA	1.85	0.41
1:T8:179:SER:HB2	1:T8:392:LEU:HG	2.02	0.41
1:Y8:204:ALA:C	1:Y8:205:ILE:O	2.60	0.41
1:a8:54:LEU:HD13	1:bQ:141:ASN:HB3	2.03	0.41
1:b8:99:MET:HE3	1:b8:99:MET:HB2	1.97	0.41
1:b8:369:PHE:HB2	1:b8:371:GLU:HG2	2.03	0.41
1:g8:29:TYR:CB	1:KS:315:ALA:HB1	2.50	0.41
1:g8:321:VAL:HG21	1:g8:327:PHE:HE2	1.85	0.41
1:h8:240:ILE:HG22	1:h8:242:THR:HG23	2.03	0.41
2:n8:45:ILE:HG23	2:n8:46:HIS:CG	2.56	0.41
3:A9:67:ASN:HD21	2:MK:54:THR:CG2	2.33	0.41
3:A9:151:ASN:HA	1:AK:144:THR:HG23	1.93	0.41
3:A9:156:ILE:HD11	3:A9:160:TYR:CE2	2.56	0.41
4:B9:30:LEU:HD23	5:EC:64:TRP:CE3	2.56	0.41
4:B9:184:ASN:CB	4:BA:154:GLY:HA3	2.49	0.41
5:D9:69:GLU:OE2	5:D9:73:ARG:NH2	2.46	0.41
5:N9:216:VAL:HG12	5:N9:217:GLN:HG3	2.03	0.41
3:AA:153:ASP:CA	3:AA:156:ILE:HG22	2.50	0.41
3:AA:287:PRO:HA	3:AA:290:PHE:CD2	2.56	0.41
4:BA:191:LYS:HB2	4:BC:148:SER:OG	2.21	0.41
3:AB:42:LEU:HD13	3:AB:42:LEU:HA	1.93	0.41
3:AB:156:ILE:HD11	3:AB:160:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DB:101:ILE:HA	5:DB:104:ILE:HG12	2.03	0.41
5:OB:297:GLY:O	5:OB:320:ILE:HG22	2.20	0.41
3:AC:155:GLU:OE1	1:AP:58:ILE:CG1	2.68	0.41
5:OC:216:VAL:HG12	5:OC:217:GLN:HG3	2.03	0.41
1:AD:43:ASN:CB	5:DF:25:ARG:O	2.69	0.41
1:AD:56:PRO:O	3:AF:152:SER:HB2	2.21	0.41
1:AD:92:MET:N	1:AD:92:MET:SD	2.86	0.41
1:AD:100:ASP:OD2	1:YG:28:ASP:HA	2.21	0.41
1:AD:120:LEU:HD12	1:KK:55:PHE:CD1	2.45	0.41
1:AD:123:ASN:HD21	1:KK:21:ALA:HB2	0.59	0.41
1:AD:145:LEU:CD2	3:AF:37:GLU:HB2	2.51	0.41
1:AD:172:ARG:NH1	1:AD:275:ASP:O	2.54	0.41
1:AD:280:PHE:HB2	1:AD:317:PHE:HB2	2.03	0.41
1:AD:305:SER:HB3	1:KK:28:ASP:HB3	2.02	0.41
1:AD:343:PHE:CE2	1:AD:345:LEU:HD23	2.56	0.41
1:BD:340:LEU:HD22	1:BD:340:LEU:HA	1.92	0.41
1:BD:354:ARG:NH2	2:ED:24:THR:OG1	2.53	0.41
1:DD:294:ILE:HG22	1:DD:298:ARG:HE	1.86	0.41
1:DD:357:LYS:HG2	2:FD:20:LEU:HD23	2.02	0.41
2:FD:36:LYS:HB3	2:FD:36:LYS:HE2	1.85	0.41
1:KD:22:LEU:CD2	1:KS:48:THR:N	2.84	0.41
1:KD:28:ASP:HB3	1:IS:305:SER:HB3	2.02	0.41
1:KD:80:ASP:CG	3:AF:65:ASN:HB2	2.45	0.41
1:KD:182:GLN:HB3	1:KD:220:ARG:NH1	2.35	0.41
1:LD:28:ASP:CB	1:DK:304:GLN:CG	2.99	0.41
1:LD:38:LYS:C	1:DK:222:SER:CB	2.81	0.41
1:LD:90:VAL:H	1:LD:117:ALA:HB3	1.85	0.41
1:LD:119:LYS:NZ	1:YG:37:ASP:O	2.49	0.41
2:GE:2:TYR:H	1:BP:150:ASN:HD21	1.68	0.41
1:AE:184:SER:HB2	1:AE:219:HIS:CE1	2.55	0.41
1:BE:109:LEU:HD12	1:AP:106:GLU:CB	2.50	0.41
1:CE:98:ASN:OD1	1:CP:30:SER:HB3	2.21	0.41
1:CE:260:GLN:HA	1:CE:260:GLN:NE2	2.36	0.41
1:KE:372:VAL:CG1	2:PR:11:MET:HE3	2.51	0.41
1:LE:347:ILE:HD12	1:LE:347:ILE:HA	1.92	0.41
1:NE:82:ILE:HD13	1:NE:82:ILE:HA	1.85	0.41
2:RE:2:TYR:CB	1:SE:150:ASN:OD1	2.53	0.41
1:SE:209:GLN:HE22	1:SE:235:LEU:HB2	1.84	0.41
1:TE:77:LYS:HB2	1:TE:353:LYS:HG2	2.02	0.41
1:TE:240:ILE:HB	1:TE:270:VAL:HG22	2.02	0.41
1:UE:260:GLN:HA	1:UE:260:GLN:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:VE:179:SER:OG	1:VE:341:TYR:OH	2.29	0.41
1:VE:255:ILE:HA	1:VE:258:THR:HG22	2.02	0.41
2:ZE:11:MET:SD	1:IL:372:VAL:HG12	2.60	0.41
1:aE:360:LEU:HD21	2:HR:22:LYS:HG2	1.95	0.41
1:bE:240:ILE:HG22	1:bE:242:THR:HG23	2.03	0.41
1:bE:274:ASP:HB3	1:cE:210:ASN:HD22	1.86	0.41
3:AF:190:ASP:HA	3:AF:193:ILE:HG22	2.03	0.41
1:CG:74:TRP:CE3	2:fL:32:ILE:HD11	2.56	0.41
1:CG:209:GLN:HE22	1:CG:235:LEU:HB2	1.84	0.41
1:BG:209:GLN:NE2	1:BG:235:LEU:HB2	2.36	0.41
2:HG:32:ILE:HD11	1:YL:74:TRP:CE3	2.56	0.41
1:IG:206:LEU:CD1	1:KG:244:ASP:CG	2.94	0.41
1:JG:271:ILE:HG22	2:PG:45:ILE:HD11	2.02	0.41
1:JG:274:ASP:HB3	1:KG:210:ASN:HD22	1.86	0.41
1:QG:372:VAL:HG12	2:HQ:11:MET:SD	2.60	0.41
1:ZG:240:ILE:HB	1:ZG:270:VAL:HG22	2.02	0.41
1:aG:21:ALA:CB	1:DK:47:GLU:O	2.58	0.41
1:aG:135:ASN:O	1:BK:81:PHE:CZ	2.74	0.41
2:cG:45:ILE:HG13	2:cG:46:HIS:HB3	1.99	0.41
2:fG:45:ILE:HG23	2:fG:46:HIS:CG	2.56	0.41
1:gG:321:VAL:CG2	1:gG:327:PHE:HE2	2.34	0.41
1:jG:103:LYS:HA	1:jG:103:LYS:HD2	1.91	0.41
2:nG:45:ILE:HG23	2:nG:46:HIS:CG	2.56	0.41
3:AH:156:ILE:HD11	3:AH:160:TYR:CE2	2.56	0.41
5:DH:104:ILE:O	5:DH:108:GLU:CB	2.68	0.41
5:DH:123:PHE:HE2	5:FH:124:LYS:HG3	1.86	0.41
5:EH:18:LEU:HD12	5:DN:60:ALA:HB1	2.03	0.41
5:EH:21:ILE:HG22	5:EN:55:LEU:CD1	2.50	0.41
3:AI:156:ILE:HD11	3:AI:160:TYR:CE2	2.56	0.41
4:BI:192:THR:HA	4:BO:146:ALA:O	2.20	0.41
5:DI:104:ILE:HG22	5:FI:101:ILE:HD13	2.03	0.41
5:DI:123:PHE:HE2	5:FI:124:LYS:HG3	1.86	0.41
5:FI:102:ASP:HA	5:FI:105:ILE:HG22	2.03	0.41
1:AJ:60:GLU:CB	1:KJ:87:GLU:H	2.34	0.41
1:AJ:220:ARG:C	1:JS:38:LYS:HD3	2.43	0.41
1:BJ:326:GLU:OE1	1:BJ:326:GLU:HA	2.21	0.41
1:BJ:340:LEU:HD22	1:BJ:340:LEU:HA	1.92	0.41
1:BJ:348:ASN:HB3	2:FJ:50:LYS:HB2	2.02	0.41
1:BJ:354:ARG:NH2	2:EJ:24:THR:OG1	2.53	0.41
2:FJ:11:MET:O	1:LP:152:ALA:CB	2.68	0.41
2:GJ:53:PHE:O	2:MP:1:MET:CE	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:139:ARG:NH1	1:AP:355:TYR:CE2	2.75	0.41
1:KJ:146:ALA:O	1:KJ:149:THR:OG1	2.28	0.41
1:LJ:27:HIS:CD2	1:CS:312:PRO:HG3	2.54	0.41
1:LJ:62:LEU:HD13	2:NJ:53:PHE:HE2	1.85	0.41
1:CK:35:PHE:CZ	1:hR:178:TYR:CD1	3.08	0.41
1:CK:35:PHE:CE2	1:hR:178:TYR:CD1	2.99	0.41
1:KK:159:LYS:HB3	1:KK:159:LYS:HE2	1.73	0.41
1:LK:55:PHE:CD1	1:DP:120:LEU:CD1	2.79	0.41
1:LK:80:ASP:OD1	1:LK:80:ASP:N	2.53	0.41
2:MK:1:MET:CE	2:GP:53:PHE:O	2.68	0.41
2:MK:6:ASN:HA	1:KP:153:LEU:HD22	2.03	0.41
1:BL:54:LEU:HD13	1:YR:141:ASN:HB3	2.03	0.41
1:DL:255:ILE:HA	1:DL:258:THR:HG22	2.02	0.41
1:IL:31:LYS:HG3	1:IQ:314:GLY:O	2.21	0.41
1:IL:141:ASN:HB3	1:KQ:54:LEU:HD13	2.03	0.41
1:IL:203:GLU:O	1:IL:205:ILE:O	2.39	0.41
1:IL:289:GLN:N	1:IL:326:GLU:OE2	2.46	0.41
1:JL:240:ILE:HG22	1:JL:242:THR:HG23	2.03	0.41
1:JL:271:ILE:HG22	2:PL:45:ILE:HD11	2.02	0.41
1:LL:28:ASP:OD1	1:LL:28:ASP:N	2.53	0.41
1:QL:184:SER:HB2	1:QL:219:HIS:CE1	2.55	0.41
1:QL:203:GLU:O	1:QL:205:ILE:O	2.39	0.41
1:RL:98:ASN:CB	1:YL:28:ASP:O	2.69	0.41
1:RL:99:MET:SD	1:QR:128:LYS:HB2	2.60	0.41
1:RL:362:PRO:HA	1:RL:363:PRO:HD3	1.84	0.41
1:SL:209:GLN:NE2	1:SL:235:LEU:HB2	2.36	0.41
1:SL:260:GLN:HA	1:SL:260:GLN:NE2	2.36	0.41
2:XL:2:TYR:CD2	1:YL:153:LEU:HD23	2.56	0.41
2:XL:11:MET:SD	1:YL:372:VAL:HG12	2.60	0.41
2:XL:45:ILE:HG23	2:XL:46:HIS:CG	2.56	0.41
1:bL:279:VAL:HG22	1:bL:318:THR:HA	2.02	0.41
2:fL:45:ILE:HG23	2:fL:46:HIS:CG	2.56	0.41
2:hL:44:GLN:HB3	2:hL:45:ILE:H	1.63	0.41
4:BM:233:ASP:OD1	4:BM:233:ASP:N	2.50	0.41
5:OM:297:GLY:O	5:OM:320:ILE:HG22	2.20	0.41
5:DN:123:PHE:HE2	5:FN:124:LYS:HG3	1.86	0.41
3:AO:150:TYR:OH	1:JS:80:ASP:HB2	2.21	0.41
3:AO:153:ASP:O	1:IS:145:LEU:HD23	2.21	0.41
3:AO:190:ASP:HA	3:AO:193:ILE:HG22	2.03	0.41
4:BO:228:ILE:H	4:BO:228:ILE:HG13	1.74	0.41
5:DO:104:ILE:HG22	5:FO:101:ILE:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EO:113:SER:O	5:EO:117:THR:OG1	2.34	0.41
5:CO:216:VAL:HG12	5:CO:217:GLN:HG3	2.03	0.41
1:AP:172:ARG:NH1	1:AP:275:ASP:O	2.54	0.41
1:AP:242:THR:OG1	1:AP:243:THR:N	2.53	0.41
1:AP:343:PHE:CE2	1:AP:345:LEU:HD23	2.56	0.41
1:BP:242:THR:OG1	1:BP:243:THR:N	2.54	0.41
1:DP:55:PHE:O	1:DP:57:LYS:NZ	2.40	0.41
2:EP:26:LEU:HD11	2:EP:30:MET:HB2	2.02	0.41
1:KP:73:ASN:ND2	1:KP:354:ARG:HH12	2.19	0.41
1:LP:62:LEU:HD13	2:NP:53:PHE:HE2	1.85	0.41
1:LP:254:LYS:HD3	1:LP:254:LYS:HA	1.94	0.41
8:QP:115:ALA:HB1	8:QP:118:ALA:HB3	2.03	0.41
1:CQ:81:PHE:CE2	1:gR:139:ARG:CD	2.71	0.41
1:CQ:169:LYS:HG3	1:CQ:172:ARG:HH21	1.86	0.41
1:CQ:171:MET:HE3	1:CQ:171:MET:HB3	1.88	0.41
1:CQ:314:GLY:O	1:gR:31:LYS:HG3	2.21	0.41
1:AQ:274:ASP:HB3	1:BQ:210:ASN:HD22	1.86	0.41
1:BQ:362:PRO:HA	1:BQ:363:PRO:HD3	1.79	0.41
1:LQ:279:VAL:HG22	1:LQ:318:THR:HA	2.02	0.41
1:RQ:240:ILE:HB	1:RQ:270:VAL:HG22	2.02	0.41
1:RQ:274:ASP:HB3	1:SQ:210:ASN:HD22	1.86	0.41
1:RQ:362:PRO:HA	1:RQ:363:PRO:HD3	1.84	0.41
1:TQ:385:SER:O	1:TQ:390:LYS:NZ	2.48	0.41
1:YQ:377:HIS:CE1	1:AS:370:ASP:OD2	2.74	0.41
2:ZQ:54:THR:OG1	2:DS:2:TYR:HB3	2.21	0.41
2:aQ:2:TYR:H	1:AS:150:ASN:HD21	1.68	0.41
1:bQ:283:THR:N	1:bQ:330:ASN:O	2.44	0.41
1:bQ:321:VAL:CG2	1:bQ:327:PHE:HE2	2.34	0.41
1:CR:171:MET:HE3	1:CR:171:MET:HB3	1.88	0.41
1:CR:206:LEU:CD1	1:BR:244:ASP:CG	2.94	0.41
1:AR:271:ILE:HG22	2:HR:45:ILE:HD11	2.02	0.41
1:BR:259:PHE:C	1:BR:260:GLN:CG	2.93	0.41
1:BR:260:GLN:HA	1:BR:260:GLN:NE2	2.36	0.41
1:BR:362:PRO:HA	1:BR:363:PRO:HD3	1.79	0.41
1:QR:171:MET:HB3	1:QR:171:MET:HE3	1.88	0.41
1:RR:77:LYS:HB2	1:RR:353:LYS:HG2	2.02	0.41
1:TR:255:ILE:HA	1:TR:258:THR:HG22	2.02	0.41
1:TR:325:LYS:NZ	1:TR:325:LYS:CB	2.73	0.41
1:YR:169:LYS:HG3	1:YR:172:ARG:HH21	1.86	0.41
1:YR:354:ARG:HH11	1:YR:354:ARG:HD3	1.74	0.41
1:gR:169:LYS:HG3	1:gR:172:ARG:HH21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gR:203:GLU:O	1:gR:205:ILE:O	2.39	0.41
1:AS:242:THR:HG21	1:AS:246:LEU:HD12	2.03	0.41
1:AS:326:GLU:HA	1:AS:326:GLU:OE1	2.21	0.41
1:CS:294:ILE:HG22	1:CS:298:ARG:HE	1.86	0.41
1:IS:260:GLN:HB2	1:KS:256:ALA:HA	2.03	0.41
1:IS:343:PHE:CE2	1:IS:345:LEU:HD23	2.56	0.41
1:JS:189:ARG:NH1	1:JS:203:GLU:OE2	2.53	0.41
1:KS:216:ASN:HD22	1:KS:229:TYR:HD2	1.66	0.41
2:H1:2:TYR:CD2	1:f4:153:LEU:HD23	2.56	0.41
2:H1:45:ILE:HG23	2:H1:46:HIS:CG	2.56	0.41
1:I1:169:LYS:HG3	1:I1:172:ARG:HH21	1.86	0.41
1:I1:206:LEU:HD12	1:K1:244:ASP:CG	2.45	0.41
1:L1:264:ILE:H	1:L1:264:ILE:HG13	1.66	0.41
1:R1:362:PRO:HA	1:R1:363:PRO:HD3	1.84	0.41
1:S1:47:GLU:OE2	1:Q8:22:LEU:CD1	2.67	0.41
1:S1:367:PRO:O	1:J3:377:HIS:NE2	2.54	0.41
1:Z1:54:LEU:HD13	1:IR:141:ASN:HB3	2.03	0.41
1:f1:171:MET:HB3	1:f1:171:MET:HE3	1.88	0.41
1:g1:240:ILE:HG22	1:g1:242:THR:HG23	2.03	0.41
5:E2:64:TRP:CE3	4:BF:30:LEU:HD23	2.56	0.41
2:H3:45:ILE:HG23	2:H3:46:HIS:CG	2.56	0.41
1:I3:206:LEU:CD1	1:K3:244:ASP:CG	2.94	0.41
1:J3:240:ILE:HG22	1:J3:242:THR:HG23	2.03	0.41
1:K3:137:ASP:OD1	1:I4:48:THR:HG22	2.17	0.41
2:P3:2:TYR:CD2	1:IG:153:LEU:HD23	2.56	0.41
1:S3:34:THR:HB	1:bE:383:ALA:HB2	2.02	0.41
1:Y3:369:PHE:HB2	1:Y3:371:GLU:HG2	2.03	0.41
1:b3:98:ASN:O	1:i4:304:GLN:NE2	2.48	0.41
1:C4:171:MET:HE3	1:C4:171:MET:HB3	1.87	0.41
1:I4:362:PRO:HA	1:I4:363:PRO:HD3	1.85	0.41
2:P4:2:TYR:CD2	1:AE:153:LEU:HD23	2.56	0.41
2:P4:11:MET:HE3	1:AE:372:VAL:CG1	2.51	0.41
1:Q4:372:VAL:HG12	2:fR:11:MET:SD	2.60	0.41
1:R4:82:ILE:HD11	1:BS:142:PHE:CB	2.12	0.41
1:R4:109:LEU:HD11	1:IS:109:LEU:HG	2.03	0.41
1:T4:29:TYR:N	1:KS:98:ASN:ND2	2.67	0.41
1:X4:132:THR:HG21	1:Z8:111:ARG:HG2	1.23	0.41
1:i4:247:LYS:HE2	1:i4:251:LEU:HD11	2.03	0.41
4:B5:151:ASN:HA	4:BN:188:ASP:HB3	2.03	0.41
5:E5:21:ILE:HG21	5:EI:55:LEU:HD22	1.78	0.41
1:C6:289:GLN:N	1:C6:326:GLU:OE2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A6:271:ILE:HG22	2:H6:45:ILE:HD11	2.02	0.41
2:H6:11:MET:SD	1:Y8:372:VAL:HG12	2.60	0.41
1:I6:25:PHE:O	1:JL:101:LEU:N	2.49	0.41
1:J6:101:LEU:N	1:IR:25:PHE:O	2.49	0.41
1:g6:12:LEU:HD21	1:g6:44:THR:HG22	2.01	0.41
1:g6:171:MET:HE3	1:g6:171:MET:HB3	1.87	0.41
1:i6:209:GLN:NE2	1:i6:235:LEU:HB2	2.36	0.41
1:j6:369:PHE:HB2	1:j6:371:GLU:HG2	2.03	0.41
1:C7:118:THR:HG21	1:DP:54:LEU:HA	2.03	0.41
1:C7:321:VAL:HG21	1:C7:327:PHE:HE2	1.85	0.41
1:J7:119:LYS:HA	1:J7:119:LYS:HD3	1.89	0.41
1:J7:279:VAL:HG13	1:J7:318:THR:HA	2.02	0.41
1:Q7:137:ASP:HB3	1:aL:50:VAL:HG23	2.01	0.41
1:Q7:206:LEU:CD1	1:S7:244:ASP:CG	2.94	0.41
1:Q7:372:VAL:CG1	2:HG:11:MET:HE3	2.51	0.41
1:R7:271:ILE:HG22	2:X7:45:ILE:HD11	2.02	0.41
1:T7:172:ARG:NH1	1:T7:277:GLY:H	2.16	0.41
1:T7:369:PHE:HB2	1:T7:371:GLU:HG2	2.03	0.41
2:V7:43:VAL:HG12	2:UL:38:GLU:HG3	2.03	0.41
2:X7:11:MET:HE3	1:Y7:372:VAL:CG1	2.51	0.41
1:Y7:74:TRP:CE3	2:PR:32:ILE:HD11	2.56	0.41
1:Y7:204:ALA:C	1:Y7:205:ILE:O	2.60	0.41
1:i7:276:LEU:HD23	1:i7:276:LEU:HA	1.93	0.41
1:j7:179:SER:HB2	1:j7:392:LEU:HG	2.02	0.41
1:C8:169:LYS:HG3	1:C8:172:ARG:HH21	1.86	0.41
1:C8:206:LEU:HD12	1:B8:244:ASP:CG	2.45	0.41
1:C8:362:PRO:HA	1:C8:363:PRO:HD3	1.84	0.41
1:A8:168:GLU:OE2	1:B8:211:ASN:ND2	2.38	0.41
1:L8:369:PHE:HB2	1:L8:371:GLU:HG2	2.03	0.41
1:Q8:360:LEU:HA	1:Q8:360:LEU:HD13	1.88	0.41
1:R8:240:ILE:HG22	1:R8:242:THR:HG23	2.03	0.41
1:R8:377:HIS:NE2	1:SL:367:PRO:O	2.54	0.41
1:S8:260:GLN:HA	1:S8:260:GLN:NE2	2.36	0.41
1:Y8:171:MET:HB3	1:Y8:171:MET:HE3	1.87	0.41
1:b8:247:LYS:HE2	1:b8:251:LEU:HD11	2.03	0.41
1:g8:30:SER:O	1:KS:316:VAL:N	2.52	0.41
1:g8:206:LEU:CD1	1:i8:244:ASP:CG	2.94	0.41
1:h8:279:VAL:HG13	1:h8:318:THR:HA	2.02	0.41
1:i8:34:THR:HB	1:BD:383:ALA:HB2	2.03	0.41
1:j8:247:LYS:HE2	1:j8:251:LEU:HD11	2.03	0.41
2:n8:2:TYR:CD2	1:IQ:153:LEU:HD23	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:n8:11:MET:HE3	1:IQ:372:VAL:CG1	2.51	0.41
5:E9:140:ASP:CB	5:C9:139:LYS:HB3	2.01	0.41
5:C9:297:GLY:O	5:C9:320:ILE:HG22	2.20	0.41
4:BB:117:GLU:N	4:BB:220:THR:O	2.51	0.41
5:FB:102:ASP:HA	5:FB:105:ILE:HG22	2.03	0.41
3:AC:25:ASN:ND2	5:DH:33:ASP:HA	2.36	0.41
4:BC:191:LYS:HB2	4:BH:148:SER:OG	2.21	0.41
4:BC:192:THR:HA	4:BH:146:ALA:O	2.20	0.41
5:DC:123:PHE:HE2	5:FC:124:LYS:HG3	1.86	0.41
1:BD:107:LEU:CD1	1:KS:369:PHE:CZ	3.03	0.41
1:BD:326:GLU:OE1	1:BD:326:GLU:HA	2.21	0.41
1:DD:92:MET:HB2	1:DD:115:ARG:HD3	2.03	0.41
2:FD:38:GLU:HG3	2:GD:43:VAL:HB	2.02	0.41
1:KD:38:LYS:HD3	1:IS:220:ARG:C	2.43	0.41
1:KD:242:THR:HG21	1:KD:246:LEU:HD12	2.02	0.41
1:LD:143:GLN:O	1:DK:82:ILE:CG2	2.69	0.41
1:LD:367:PRO:CG	1:DK:375:TRP:CZ3	2.95	0.41
1:LE:240:ILE:HB	1:LE:270:VAL:HG22	2.02	0.41
1:NE:369:PHE:HB2	1:NE:371:GLU:HG2	2.03	0.41
2:RE:45:ILE:HG23	2:RE:46:HIS:CG	2.56	0.41
1:SE:289:GLN:N	1:SE:326:GLU:OE2	2.46	0.41
1:aE:169:LYS:HG3	1:aE:172:ARG:HH21	1.86	0.41
1:aE:289:GLN:N	1:aE:326:GLU:OE2	2.46	0.41
1:cE:365:HIS:CD2	2:dL:10:MET:HG2	2.55	0.41
2:hE:32:ILE:HD11	1:CR:74:TRP:CE3	2.56	0.41
5:FF:132:ASN:C	5:NF:139:LYS:CE	2.92	0.41
5:OF:351:ASN:O	5:CM:244:ALA:HB3	2.20	0.41
1:CG:206:LEU:CD1	1:BG:244:ASP:CG	2.94	0.41
1:BG:234:LYS:NZ	2:FG:28:GLU:OE2	2.36	0.41
1:BG:365:HIS:CD2	2:VG:10:MET:HG2	2.55	0.41
2:FG:10:MET:HG2	1:SR:365:HIS:CD2	2.55	0.41
2:HG:45:ILE:HG23	2:HG:46:HIS:CG	2.56	0.41
1:IG:169:LYS:HG3	1:IG:172:ARG:HH21	1.86	0.41
1:RG:240:ILE:HB	1:RG:270:VAL:HG22	2.02	0.41
2:XG:45:ILE:HG23	2:XG:46:HIS:CG	2.56	0.41
1:YG:321:VAL:HG21	1:YG:327:PHE:HE2	1.85	0.41
1:ZG:264:ILE:H	1:ZG:264:ILE:HG13	1.76	0.41
1:aG:19:LYS:NZ	1:aG:37:ASP:OD1	2.37	0.41
5:NH:216:VAL:HG12	5:NH:217:GLN:HG3	2.03	0.41
4:BI:200:SER:HB2	4:BO:139:ASP:HB3	2.02	0.41
5:FI:31:PHE:CZ	5:FO:46:TYR:HB3	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CI:244:ALA:HB3	5:OO:351:ASN:O	2.20	0.41
5:NI:216:VAL:HG12	5:NI:217:GLN:HG3	2.03	0.41
1:AJ:347:ILE:HD12	1:AJ:347:ILE:HA	1.92	0.41
1:LJ:80:ASP:OD1	1:LJ:80:ASP:N	2.53	0.41
1:BK:79:GLN:CD	1:BK:81:PHE:H	2.29	0.41
1:BK:326:GLU:OE1	1:BK:326:GLU:HA	2.21	0.41
1:CK:26:ASN:O	1:iR:100:ASP:OD2	2.39	0.41
1:CK:149:THR:CG2	2:kR:16:GLU:HG2	2.51	0.41
1:KK:73:ASN:ND2	1:KK:354:ARG:HH12	2.19	0.41
1:YL:321:VAL:CG2	1:YL:327:PHE:HE2	2.34	0.41
1:aL:34:THR:HB	1:RQ:383:ALA:HB2	2.02	0.41
1:bL:28:ASP:OD1	1:bL:28:ASP:N	2.53	0.41
1:gL:369:PHE:HB2	1:gL:371:GLU:HG2	2.03	0.41
5:DM:33:ASP:HA	3:AO:25:ASN:ND2	2.36	0.41
5:DM:35:ARG:HH22	1:JS:111:ARG:NH2	2.19	0.41
5:FM:46:TYR:HB3	5:FO:31:PHE:CZ	2.52	0.41
5:CM:216:VAL:HG12	5:CM:217:GLN:HG3	2.03	0.41
3:AN:104:GLN:HB3	2:MP:9:SER:CB	2.51	0.41
3:AN:156:ILE:HD11	3:AN:160:TYR:CE2	2.56	0.41
5:CN:216:VAL:HG12	5:CN:217:GLN:HG3	2.03	0.41
3:AO:156:ILE:HD11	3:AO:160:TYR:CE2	2.56	0.41
2:PQ:45:ILE:HG23	2:PQ:46:HIS:CG	2.56	0.41
2:XQ:11:MET:HE3	1:QR:372:VAL:CG1	2.51	0.41
1:YQ:325:LYS:NZ	1:YQ:325:LYS:CB	2.73	0.41
1:bQ:206:LEU:CD1	1:dQ:244:ASP:CG	2.94	0.41
1:eQ:172:ARG:NH1	1:eQ:277:GLY:H	2.16	0.41
2:iQ:45:ILE:HG23	2:iQ:46:HIS:CG	2.56	0.41
1:DR:287:LYS:NZ	1:DR:308:GLY:O	2.47	0.41
1:IR:321:VAL:HG22	1:IR:327:PHE:CE2	2.51	0.41
1:RR:271:ILE:HG22	2:XR:45:ILE:HD11	2.02	0.41
1:AS:127:LYS:O	1:AS:377:HIS:HA	2.21	0.41
1:AS:240:ILE:HD11	1:AS:270:VAL:HG13	2.02	0.41
1:IS:172:ARG:NH1	1:IS:275:ASP:O	2.54	0.41
1:IS:276:LEU:HD13	1:IS:276:LEU:HA	1.94	0.41
1:IS:280:PHE:CE1	1:IS:333:GLU:HB3	2.55	0.41
1:KS:90:VAL:H	1:KS:117:ALA:HB3	1.85	0.41
1:KS:274:ASP:OD1	1:KS:274:ASP:N	2.53	0.41
1:C1:31:LYS:HG3	1:bQ:314:GLY:O	2.21	0.40
1:C1:157:LYS:NZ	2:P7:2:TYR:OH	2.53	0.40
1:C1:204:ALA:C	1:C1:205:ILE:O	2.60	0.40
2:F1:10:MET:HG2	1:iG:365:HIS:CD2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H1:11:MET:SD	1:f4:372:VAL:HG12	2.60	0.40
1:I1:141:ASN:HB3	1:UE:54:LEU:HD13	2.03	0.40
1:L1:369:PHE:HB2	1:L1:371:GLU:HG2	2.03	0.40
2:M1:44:GLN:HB3	2:M1:45:ILE:H	1.63	0.40
2:P1:11:MET:HE3	1:Q1:372:VAL:CG1	2.51	0.40
2:U1:15:TYR:CE2	1:CJ:133:LEU:HD23	2.52	0.40
2:W1:2:TYR:O	1:CS:153:LEU:HD23	2.21	0.40
1:f1:139:ARG:HD3	1:C3:81:PHE:HD2	1.64	0.40
1:f1:372:VAL:CG1	2:n7:11:MET:HE3	2.51	0.40
1:f1:372:VAL:HG12	2:n7:11:MET:SD	2.60	0.40
1:h1:39:TRP:O	1:A4:222:SER:OG	2.33	0.40
5:C2:216:VAL:HG12	5:C2:217:GLN:HG3	2.03	0.40
5:C2:266:THR:CB	5:N9:230:SER:C	2.89	0.40
1:C3:153:LEU:HD23	2:H4:2:TYR:CD2	2.56	0.40
1:C3:372:VAL:CG1	2:H4:11:MET:HE3	2.51	0.40
1:D3:28:ASP:N	1:D3:28:ASP:OD1	2.54	0.40
1:D3:369:PHE:HB2	1:D3:371:GLU:HG2	2.03	0.40
2:H3:32:ILE:HD11	1:g7:74:TRP:CE3	2.56	0.40
1:K3:260:GLN:HA	1:K3:260:GLN:NE2	2.36	0.40
1:Q3:372:VAL:CG1	2:f8:11:MET:HG3	2.45	0.40
1:S3:367:PRO:O	1:bE:377:HIS:NE2	2.54	0.40
2:U3:38:GLU:HG3	2:NR:43:VAL:HG12	2.03	0.40
2:V3:43:VAL:HG12	2:eE:38:GLU:HG3	2.04	0.40
1:Y3:377:HIS:CE1	1:BK:370:ASP:OD2	2.74	0.40
1:b3:82:ILE:CG1	1:BD:145:LEU:CD2	2.99	0.40
2:d3:1:MET:N	1:BD:150:ASN:CG	2.77	0.40
1:D4:247:LYS:HE2	1:D4:251:LEU:HD11	2.03	0.40
1:D4:369:PHE:HB2	1:D4:371:GLU:HG2	2.03	0.40
1:I4:153:LEU:HD23	2:X8:2:TYR:CD2	2.56	0.40
1:I4:372:VAL:CG1	2:X8:11:MET:HE3	2.51	0.40
1:J4:64:ILE:CG1	2:N4:53:PHE:CD2	2.95	0.40
1:L4:94:THR:OG1	1:TR:159:LYS:NZ	2.34	0.40
2:M4:44:GLN:HB3	2:M4:45:ILE:H	1.63	0.40
1:R4:240:ILE:HB	1:R4:270:VAL:HG22	2.02	0.40
1:T4:247:LYS:HE2	1:T4:251:LEU:HD11	2.03	0.40
1:T4:360:LEU:HD23	1:T4:360:LEU:HA	1.96	0.40
2:W4:45:ILE:HG23	2:W4:46:HIS:CG	2.56	0.40
1:X4:321:VAL:HG21	1:X4:327:PHE:HE2	1.85	0.40
1:Y4:271:ILE:HG22	2:e4:45:ILE:HD11	2.02	0.40
1:Y4:274:ASP:HB3	1:Z4:210:ASN:HD22	1.86	0.40
2:e4:11:MET:HE3	1:bQ:372:VAL:CG1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f4:204:ALA:C	1:f4:205:ILE:O	2.60	0.40
1:f4:360:LEU:HD13	1:f4:360:LEU:HA	1.88	0.40
1:g4:240:ILE:HG22	1:g4:242:THR:HG23	2.03	0.40
1:h4:367:PRO:O	1:AL:377:HIS:NE2	2.54	0.40
1:i4:179:SER:HB2	1:i4:392:LEU:HG	2.02	0.40
2:l4:22:LYS:HG2	1:YG:360:LEU:HD21	1.95	0.40
5:F5:98:ASP:OD1	5:F5:98:ASP:N	2.54	0.40
1:C6:31:LYS:HG3	1:gG:314:GLY:O	2.21	0.40
1:C6:139:ARG:HD3	1:gG:81:PHE:HD2	1.64	0.40
1:C6:203:GLU:O	1:C6:205:ILE:O	2.39	0.40
2:H6:2:TYR:CD2	1:Y8:153:LEU:HD23	2.56	0.40
1:J6:64:ILE:CG1	2:N6:53:PHE:CD2	2.95	0.40
2:V6:43:VAL:HG12	2:ZQ:38:GLU:HG3	2.03	0.40
1:Y6:372:VAL:CG1	2:PG:11:MET:HE3	2.51	0.40
1:a6:209:GLN:NE2	1:a6:235:LEU:HB2	2.36	0.40
1:b6:98:ASN:O	1:LQ:304:GLN:NE2	2.48	0.40
1:b6:247:LYS:HE2	1:b6:251:LEU:HD11	2.03	0.40
2:c6:38:GLU:HG3	2:d7:43:VAL:HG12	2.03	0.40
2:f6:11:MET:HE3	1:QQ:372:VAL:CG1	2.51	0.40
1:g6:360:LEU:HA	1:g6:360:LEU:HD13	1.88	0.40
1:h6:271:ILE:HG22	2:n6:45:ILE:HD11	2.02	0.40
1:C7:38:LYS:C	1:LK:222:SER:OG	2.64	0.40
1:C7:321:VAL:CG2	1:C7:327:PHE:HE2	2.34	0.40
1:C7:360:LEU:HD21	2:mR:22:LYS:HG2	1.95	0.40
2:H7:2:TYR:CB	1:I7:150:ASN:OD1	2.53	0.40
1:J7:377:HIS:NE2	1:a8:367:PRO:O	2.54	0.40
1:K7:209:GLN:NE2	1:K7:235:LEU:HB2	2.36	0.40
1:Q7:321:VAL:CG2	1:Q7:327:PHE:HE2	2.34	0.40
1:Y7:81:PHE:HD2	1:KE:139:ARG:HD2	1.25	0.40
1:Y7:299:ALA:HB1	1:JR:226:ILE:HG22	2.02	0.40
2:f7:2:TYR:CD2	1:I8:153:LEU:HD23	2.56	0.40
1:g7:206:LEU:CD1	1:i7:244:ASP:CG	2.94	0.40
2:H8:11:MET:HE3	1:QL:372:VAL:CG1	2.51	0.40
1:I8:45:MET:HG2	1:KR:14:VAL:HA	2.02	0.40
1:I8:141:ASN:HB3	1:KR:54:LEU:HD13	2.03	0.40
1:I8:206:LEU:CD1	1:K8:244:ASP:CG	2.94	0.40
1:I8:321:VAL:CG2	1:I8:327:PHE:HE2	2.34	0.40
1:J8:64:ILE:CG1	2:N8:53:PHE:CD2	2.95	0.40
2:P8:11:MET:SD	1:CR:372:VAL:HG12	2.60	0.40
1:S8:62:LEU:HD23	1:S8:62:LEU:HA	1.91	0.40
1:Z8:168:GLU:OE2	1:a8:211:ASN:ND2	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z8:240:ILE:HG22	1:Z8:242:THR:HG23	2.03	0.40
1:a8:47:GLU:OE2	1:bQ:22:LEU:CD1	2.67	0.40
1:g8:28:ASP:HA	1:IS:100:ASP:OD2	2.21	0.40
1:g8:367:PRO:HD2	1:KS:375:TRP:CH2	2.55	0.40
1:h8:222:SER:OG	1:KL:39:TRP:O	2.33	0.40
1:i8:57:LYS:CG	1:DD:143:GLN:HE21	1.83	0.40
1:i8:137:ASP:HB3	1:DD:50:VAL:HG21	2.03	0.40
2:n8:11:MET:SD	1:IQ:372:VAL:HG12	2.60	0.40
5:D9:123:PHE:HE2	5:F9:124:LYS:HG3	1.86	0.40
3:AB:115:ILE:O	2:MD:19:ARG:C	2.56	0.40
5:EB:39:ASN:ND2	4:BF:251:TRP:HZ3	2.19	0.40
5:DC:101:ILE:HA	5:DC:104:ILE:HG12	2.03	0.40
5:EC:14:ILE:HD13	5:EH:62:ARG:HE	1.85	0.40
1:KD:21:ALA:HB2	1:IS:123:ASN:HD21	0.59	0.40
1:KD:144:THR:C	1:IS:82:ILE:HG12	2.46	0.40
1:KD:279:VAL:HA	1:KD:318:THR:HA	2.02	0.40
1:LD:48:THR:N	1:KK:22:LEU:CD2	2.84	0.40
2:MD:6:ASN:HA	1:KK:153:LEU:HD22	2.03	0.40
1:BE:109:LEU:HD11	1:AP:109:LEU:HG	2.03	0.40
1:FE:255:ILE:HA	1:FE:258:THR:HG22	2.02	0.40
1:FE:369:PHE:HB3	1:LP:101:LEU:CD2	2.51	0.40
1:ME:209:GLN:NE2	1:ME:235:LEU:HB2	2.36	0.40
1:VE:98:ASN:O	1:LG:304:GLN:NE2	2.48	0.40
1:VE:179:SER:HB2	1:VE:392:LEU:HG	2.02	0.40
1:cE:367:PRO:O	1:ZL:377:HIS:NE2	2.54	0.40
3:AF:46:THR:OG1	3:AM:325:ILE:HG23	2.22	0.40
4:BF:139:ASP:HB3	4:BM:200:SER:HB2	2.02	0.40
2:EG:38:GLU:HG3	2:VR:43:VAL:HG12	2.03	0.40
1:JG:119:LYS:HA	1:JG:119:LYS:HD3	1.89	0.40
1:QG:294:ILE:HG22	1:QG:298:ARG:HE	1.87	0.40
1:TG:99:MET:HE3	1:TG:99:MET:HB2	1.97	0.40
1:YG:206:LEU:HD12	1:aG:244:ASP:CG	2.45	0.40
1:aG:33:TRP:CZ3	1:BK:316:VAL:HG11	2.56	0.40
1:gG:206:LEU:CD1	1:iG:244:ASP:CG	2.94	0.40
1:gG:299:ALA:CB	1:AL:226:ILE:CG2	2.99	0.40
1:jG:172:ARG:NH1	1:jG:277:GLY:H	2.16	0.40
3:AH:190:ASP:HA	3:AH:193:ILE:HG22	2.03	0.40
4:BH:188:ASP:N	4:BH:188:ASP:OD1	2.51	0.40
4:BH:188:ASP:HB3	4:BN:151:ASN:HA	2.03	0.40
3:AI:25:ASN:ND2	5:DO:33:ASP:HA	2.36	0.40
3:AI:287:PRO:HA	3:AI:290:PHE:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EI:14:ILE:HD13	5:EO:62:ARG:HE	1.85	0.40
1:AJ:71:ARG:H	2:MJ:26:LEU:HD13	1.85	0.40
1:AJ:178:TYR:OH	1:AJ:217:GLU:OE2	2.34	0.40
1:CJ:80:ASP:OD1	1:CJ:80:ASP:N	2.54	0.40
1:CJ:384:ILE:HD13	1:CJ:384:ILE:HG21	1.88	0.40
1:DJ:82:ILE:CG2	1:LP:143:GLN:O	2.69	0.40
1:DJ:216:ASN:HD22	1:DJ:229:TYR:HD2	1.67	0.40
1:KJ:50:VAL:HG21	1:LP:137:ASP:CG	2.46	0.40
1:KJ:73:ASN:ND2	1:KJ:354:ARG:HH12	2.19	0.40
1:KJ:298:ARG:NH2	1:KJ:305:SER:O	2.48	0.40
1:LJ:28:ASP:CB	1:CS:304:GLN:CG	2.99	0.40
1:LJ:58:ILE:CD1	1:JS:57:LYS:HD2	2.47	0.40
1:CK:30:SER:HB3	1:iR:98:ASN:OD1	2.21	0.40
1:CK:372:VAL:HG11	2:kR:11:MET:CB	2.33	0.40
1:CL:169:LYS:HG3	1:CL:172:ARG:HH21	1.86	0.40
1:AL:77:LYS:HB2	1:AL:353:LYS:HG2	2.02	0.40
1:AL:279:VAL:HG13	1:AL:318:THR:HA	2.02	0.40
1:DL:369:PHE:HB2	1:DL:371:GLU:HG2	2.03	0.40
1:JL:226:ILE:HG22	1:YR:299:ALA:HB1	2.02	0.40
1:QL:132:THR:HG21	1:RR:111:ARG:HG2	1.23	0.40
1:QL:362:PRO:HA	1:QL:363:PRO:HD3	1.84	0.40
1:bL:179:SER:HB2	1:bL:392:LEU:HG	2.02	0.40
4:BM:141:THR:OG1	4:BM:196:SER:OG	2.34	0.40
5:DM:123:PHE:HE2	5:FM:124:LYS:HG3	1.86	0.40
5:EM:39:ASN:ND2	4:BO:251:TRP:HZ3	2.19	0.40
5:CM:297:GLY:O	5:CM:320:ILE:HG22	2.20	0.40
5:DN:34:ASP:N	5:DN:34:ASP:OD1	2.44	0.40
3:AO:32:PHE:CA	1:IS:139:ARG:NH2	2.83	0.40
3:AO:154:ILE:HG23	1:IS:145:LEU:CD2	2.45	0.40
5:DO:101:ILE:HA	5:DO:104:ILE:HG12	2.03	0.40
1:DP:360:LEU:HD13	1:DP:360:LEU:HA	1.91	0.40
2:HP:35:ASN:H	1:LP:209:GLN:HB3	1.86	0.40
1:KP:242:THR:HG21	1:KP:246:LEU:HD12	2.02	0.40
1:KP:281:LYS:NZ	1:KP:313:VAL:O	2.32	0.40
2:NP:45:ILE:HG23	2:NP:45:ILE:HD12	1.84	0.40
1:CQ:294:ILE:HG22	1:CQ:298:ARG:HE	1.87	0.40
1:KQ:34:THR:HB	1:ZR:383:ALA:HB2	2.02	0.40
1:LQ:369:PHE:HB2	1:LQ:371:GLU:HG2	2.03	0.40
1:DR:179:SER:OG	1:DR:341:TYR:OH	2.29	0.40
1:JR:279:VAL:HG13	1:JR:318:THR:HA	2.02	0.40
1:QR:289:GLN:N	1:QR:326:GLU:OE2	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TR:360:LEU:HD23	1:TR:360:LEU:HA	1.96	0.40
1:YR:294:ILE:HG22	1:YR:298:ARG:HE	1.87	0.40
1:C1:203:GLU:O	1:C1:205:ILE:O	2.39	0.40
1:A1:271:ILE:HG22	2:H1:45:ILE:HD11	2.02	0.40
1:D1:247:LYS:HE2	1:D1:251:LEU:HD11	2.03	0.40
1:I1:116:MET:SD	1:Y6:54:LEU:CG	3.10	0.40
1:Q1:31:LYS:HG3	1:IG:314:GLY:O	2.21	0.40
1:T1:55:PHE:CE2	1:BJ:58:ILE:HD11	2.56	0.40
1:X1:321:VAL:CG2	1:X1:327:PHE:HE2	2.34	0.40
2:e1:11:MET:SD	1:CL:372:VAL:HG12	2.60	0.40
1:h1:367:PRO:O	1:A4:377:HIS:NE2	2.54	0.40
2:j1:38:GLU:HG3	2:N7:43:VAL:HG12	2.03	0.40
4:B2:191:LYS:HB2	4:B9:148:SER:OG	2.21	0.40
5:D2:9:LYS:HA	5:D2:9:LYS:HD3	1.70	0.40
5:D2:30:PRO:CG	1:AD:368:GLU:OE2	2.66	0.40
5:D2:105:ILE:HG22	5:E2:104:ILE:HD11	2.02	0.40
5:F2:102:ASP:HA	5:F2:105:ILE:HG22	2.03	0.40
1:C3:372:VAL:HG12	2:H4:11:MET:SD	2.60	0.40
1:A3:119:LYS:HA	1:A3:119:LYS:HD3	1.89	0.40
1:A3:383:ALA:HB2	1:CE:34:THR:HB	2.02	0.40
1:B3:34:THR:HB	1:AQ:383:ALA:HB2	2.02	0.40
2:E3:44:GLN:HB3	2:E3:45:ILE:H	1.63	0.40
1:I3:22:LEU:CD1	1:SL:47:GLU:OE2	2.67	0.40
1:I3:171:MET:HE3	1:I3:171:MET:HB3	1.87	0.40
1:I3:361:LYS:HZ2	1:I4:370:ASP:CG	2.28	0.40
1:K3:14:VAL:HG23	1:I4:14:VAL:HG23	1.97	0.40
1:K3:54:LEU:HD13	1:I4:141:ASN:HB3	2.03	0.40
2:P3:11:MET:HE3	1:IG:372:VAL:CG1	2.51	0.40
1:R3:377:HIS:NE2	1:KR:367:PRO:O	2.55	0.40
1:b3:255:ILE:HA	1:b3:258:THR:HG22	2.02	0.40
1:C4:321:VAL:CG2	1:C4:327:PHE:HE2	2.34	0.40
1:A4:271:ILE:HG22	2:H4:45:ILE:HD11	2.02	0.40
1:A4:279:VAL:HG13	1:A4:318:THR:HA	2.02	0.40
1:I4:169:LYS:HG3	1:I4:172:ARG:HH21	1.86	0.40
1:I4:314:GLY:O	1:QL:31:LYS:HG3	2.21	0.40
1:J4:77:LYS:HB2	1:J4:353:LYS:HG2	2.02	0.40
1:Q4:294:ILE:HG22	1:Q4:298:ARG:HE	1.87	0.40
1:R4:362:PRO:HA	1:R4:363:PRO:HD3	1.83	0.40
1:S4:100:ASP:OD2	1:BS:26:ASN:O	2.39	0.40
1:X4:360:LEU:HD21	2:f8:22:LYS:HG2	1.95	0.40
1:a4:247:LYS:HE2	1:a4:251:LEU:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f4:171:MET:HB3	1:f4:171:MET:HE3	1.87	0.40
1:g4:109:LEU:HD11	1:AD:109:LEU:HG	2.03	0.40
1:h4:234:LYS:NZ	2:j4:28:GLU:OE2	2.36	0.40
4:B5:32:PHE:CG	5:FO:55:LEU:HD11	2.34	0.40
1:C6:157:LYS:NZ	2:HL:2:TYR:OH	2.53	0.40
1:C6:321:VAL:CG2	1:C6:327:PHE:HE2	2.34	0.40
1:C6:362:PRO:HA	1:C6:363:PRO:HD3	1.84	0.40
2:H6:2:TYR:CB	1:Y8:150:ASN:OD1	2.53	0.40
1:I6:294:ILE:HG22	1:I6:298:ARG:HE	1.87	0.40
1:K6:47:GLU:OE2	1:CL:22:LEU:CD1	2.67	0.40
2:P6:2:TYR:CB	1:IR:150:ASN:OD1	2.53	0.40
1:Q6:169:LYS:HG3	1:Q6:172:ARG:HH21	1.86	0.40
1:S6:45:MET:HB2	1:CS:16:LYS:HB3	1.89	0.40
1:S6:137:ASP:OD2	1:CS:50:VAL:HG23	2.21	0.40
1:T6:369:PHE:HB2	1:T6:371:GLU:HG2	2.03	0.40
1:b6:369:PHE:HB2	1:b6:371:GLU:HG2	2.03	0.40
2:f6:11:MET:SD	1:QQ:372:VAL:HG12	2.60	0.40
1:g6:37:ASP:O	1:LP:119:LYS:NZ	2.49	0.40
1:h6:240:ILE:HB	1:h6:270:VAL:HG22	2.02	0.40
2:n6:11:MET:HE3	1:g7:372:VAL:CG1	2.51	0.40
1:C7:28:ASP:HA	1:AK:100:ASP:OD2	2.21	0.40
1:C7:136:ASN:HD22	1:AK:99:MET:HE2	1.86	0.40
1:C7:169:LYS:HG3	1:C7:172:ARG:HH21	1.86	0.40
1:C7:365:HIS:HD2	2:NK:10:MET:HG2	1.87	0.40
1:A7:89:TYR:HE2	1:gR:63:LEU:HD13	1.71	0.40
1:A7:119:LYS:HD3	1:A7:119:LYS:HA	1.89	0.40
1:A7:222:SER:OG	1:BQ:39:TRP:O	2.33	0.40
1:J7:77:LYS:HB2	1:J7:353:LYS:HG2	2.02	0.40
1:J7:226:ILE:CG2	1:bQ:299:ALA:CB	2.99	0.40
1:L7:369:PHE:HB2	1:L7:371:GLU:HG2	2.03	0.40
1:Q7:116:MET:SD	1:QR:54:LEU:CG	3.10	0.40
1:R7:89:TYR:CZ	1:QQ:63:LEU:HD13	2.51	0.40
1:R7:226:ILE:HG22	1:QQ:299:ALA:HB1	2.02	0.40
1:S7:209:GLN:NE2	1:S7:235:LEU:HB2	2.36	0.40
1:S7:260:GLN:HA	1:S7:260:GLN:NE2	2.36	0.40
1:S7:365:HIS:CD2	2:VL:10:MET:HG2	2.55	0.40
1:Y7:54:LEU:CG	1:QQ:116:MET:SD	3.10	0.40
1:Y7:141:ASN:HB3	1:SQ:54:LEU:HD13	2.03	0.40
1:Y7:203:GLU:O	1:Y7:205:ILE:O	2.39	0.40
1:Z7:274:ASP:HB3	1:a7:210:ASN:HD22	1.86	0.40
1:b7:255:ILE:HA	1:b7:258:THR:HG22	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i7:54:LEU:HD13	1:C8:141:ASN:HB3	2.03	0.40
1:C8:203:GLU:O	1:C8:205:ILE:O	2.39	0.40
1:C8:289:GLN:N	1:C8:326:GLU:OE2	2.46	0.40
1:D8:369:PHE:HB2	1:D8:371:GLU:HG2	2.03	0.40
2:N8:22:LYS:HA	2:N8:22:LYS:HD2	1.73	0.40
1:S8:54:LEU:HD13	1:IG:141:ASN:HB3	2.03	0.40
1:S8:137:ASP:OD1	1:IG:48:THR:HG22	2.17	0.40
1:b8:179:SER:HB2	1:b8:392:LEU:HG	2.02	0.40
1:g8:171:MET:HE3	1:g8:171:MET:HB3	1.87	0.40
1:g8:321:VAL:CG2	1:g8:327:PHE:HE2	2.34	0.40
1:j8:369:PHE:HB2	1:j8:371:GLU:HG2	2.03	0.40
3:A9:308:THR:HG21	3:AA:300:LYS:HZ1	1.86	0.40
4:B9:233:ASP:OD1	4:B9:233:ASP:N	2.50	0.40
3:AA:25:ASN:ND2	5:DC:33:ASP:HA	2.36	0.40
3:AA:81:LEU:CD2	2:MK:9:SER:OG	2.69	0.40
3:AA:254:LEU:HD12	3:AA:254:LEU:HA	1.80	0.40
4:BA:251:TRP:HZ3	5:EC:39:ASN:ND2	2.19	0.40
5:DA:105:ILE:HG22	5:EA:104:ILE:HD11	2.02	0.40
5:EA:18:LEU:HD12	5:DC:60:ALA:HB1	2.03	0.40
5:CA:297:GLY:O	5:CA:320:ILE:HG22	2.20	0.40
5:OA:239:HIS:ND1	5:OA:241:ASP:OD1	2.51	0.40
1:AD:60:GLU:CB	1:KD:87:GLU:H	2.34	0.40
1:DD:99:MET:HE3	1:KD:128:LYS:HG2	2.02	0.40
1:KD:249:TYR:O	1:KD:253:THR:N	2.51	0.40
2:MD:49:SER:HG	3:AF:114:PHE:HE1	1.61	0.40
1:BE:98:ASN:HD22	1:DJ:30:SER:CB	2.31	0.40
1:CE:209:GLN:NE2	1:CE:235:LEU:HB2	2.36	0.40
1:FE:247:LYS:HE2	1:FE:251:LEU:HD11	2.03	0.40
1:LE:77:LYS:HB2	1:LE:353:LYS:HG2	2.02	0.40
1:LE:271:ILE:HG22	2:RE:45:ILE:HD11	2.02	0.40
2:RE:11:MET:HE3	1:SE:372:VAL:CG1	2.51	0.40
1:SE:74:TRP:CE3	2:PQ:32:ILE:HD11	2.56	0.40
1:SE:206:LEU:CD1	1:UE:244:ASP:CG	2.94	0.40
2:ZE:11:MET:HE3	1:IL:372:VAL:CG1	2.51	0.40
1:aE:372:VAL:CG1	2:XG:11:MET:HE3	2.51	0.40
1:dE:98:ASN:O	1:bL:304:GLN:NE2	2.48	0.40
1:dE:369:PHE:HB2	1:dE:371:GLU:HG2	2.03	0.40
3:AF:156:ILE:HD11	3:AF:160:TYR:CE2	2.56	0.40
5:DF:104:ILE:O	5:DF:108:GLU:CB	2.68	0.40
5:OF:216:VAL:HG12	5:OF:217:GLN:HG3	2.03	0.40
1:CG:150:ASN:OD1	2:HR:2:TYR:CB	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EG:33:ASP:O	2:EG:36:LYS:NZ	2.43	0.40
1:JG:64:ILE:CG1	2:NG:53:PHE:CD2	2.95	0.40
2:MG:44:GLN:HB3	2:MG:45:ILE:H	1.63	0.40
1:RG:362:PRO:HA	1:RG:363:PRO:HD3	1.83	0.40
1:SG:276:LEU:HD23	1:SG:276:LEU:HA	1.93	0.40
1:TG:247:LYS:HE2	1:TG:251:LEU:HD11	2.03	0.40
1:TG:255:ILE:HA	1:TG:258:THR:HG22	2.02	0.40
1:ZG:271:ILE:HG22	2:fG:45:ILE:HD11	2.02	0.40
1:ZG:274:ASP:HB3	1:aG:210:ASN:HD22	1.86	0.40
1:bG:247:LYS:HE2	1:bG:251:LEU:HD11	2.03	0.40
2:fG:11:MET:HE3	1:gG:372:VAL:CG1	2.51	0.40
1:hG:119:LYS:HD3	1:hG:119:LYS:HA	1.89	0.40
2:nG:11:MET:SD	1:YR:372:VAL:HG12	2.60	0.40
5:DH:45:TYR:HB3	5:EH:45:TYR:CE1	2.57	0.40
5:EH:124:LYS:HZ1	5:FH:120:PHE:HA	1.86	0.40
5:FH:98:ASP:OD1	5:FH:98:ASP:N	2.54	0.40
3:AI:190:ASP:HA	3:AI:193:ILE:HG22	2.03	0.40
4:BI:228:ILE:H	4:BI:228:ILE:HG13	1.74	0.40
5:DI:101:ILE:HA	5:DI:104:ILE:HG12	2.03	0.40
1:AJ:140:PHE:HE1	3:AN:26:ARG:HD3	1.85	0.40
1:AJ:362:PRO:HA	1:AJ:363:PRO:HD3	1.86	0.40
1:BJ:107:LEU:CD1	1:LP:369:PHE:CZ	3.03	0.40
1:BJ:145:LEU:CD2	1:gL:82:ILE:CG1	3.00	0.40
1:BJ:242:THR:OG1	1:BJ:243:THR:N	2.54	0.40
1:DJ:349:SER:HA	1:DJ:385:SER:HB3	2.03	0.40
1:KJ:39:TRP:C	1:AP:222:SER:OG	2.61	0.40
1:KJ:206:LEU:HD23	1:KJ:209:GLN:HE21	1.85	0.40
1:LJ:48:THR:N	1:JS:22:LEU:CD2	2.84	0.40
2:NJ:22:LYS:NZ	2:NJ:25:GLU:H	2.20	0.40
1:AK:60:GLU:CB	1:KK:87:GLU:H	2.34	0.40
1:BK:46:PHE:CE2	1:jR:14:VAL:HG13	2.53	0.40
1:CK:62:LEU:HD13	1:CK:62:LEU:HA	1.92	0.40
2:HK:40:SER:H	1:LK:263:GLY:C	2.25	0.40
1:BL:14:VAL:HA	1:YR:45:MET:HG2	2.02	0.40
1:BL:209:GLN:NE2	1:BL:235:LEU:HB2	2.36	0.40
1:IL:171:MET:HB3	1:IL:171:MET:HE3	1.88	0.40
1:LL:369:PHE:HB2	1:LL:371:GLU:HG2	2.03	0.40
1:QL:206:LEU:CD1	1:SL:244:ASP:CG	2.94	0.40
1:RL:89:TYR:CZ	1:QR:63:LEU:HD13	2.51	0.40
1:YL:206:LEU:CD1	1:aL:244:ASP:CG	2.94	0.40
1:ZL:77:LYS:HB2	1:ZL:353:LYS:HG2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aL:150:ASN:ND2	2:VQ:1:MET:H3	2.18	0.40
1:aL:276:LEU:HD23	1:aL:276:LEU:HA	1.93	0.40
3:AM:46:THR:OG1	3:AO:325:ILE:HG23	2.21	0.40
5:DM:60:ALA:HB1	5:EO:18:LEU:HD12	2.03	0.40
5:DM:105:ILE:HG22	5:EM:104:ILE:HD11	2.02	0.40
5:DN:45:TYR:HB3	5:EN:45:TYR:CE1	2.57	0.40
5:OO:216:VAL:HG12	5:OO:217:GLN:HG3	2.03	0.40
1:AP:132:THR:HG21	1:KP:111:ARG:HA	2.03	0.40
1:CP:85:TYR:HB3	1:CP:120:LEU:HD11	2.03	0.40
1:KP:254:LYS:HD3	1:KP:254:LYS:HA	1.93	0.40
7:OP:25:ALA:H	7:OP:29:ALA:HA	1.87	0.40
1:SQ:362:PRO:HA	1:SQ:363:PRO:HD3	1.79	0.40
1:SQ:367:PRO:O	1:JR:377:HIS:NE2	2.54	0.40
1:TQ:28:ASP:OD1	1:TQ:28:ASP:N	2.53	0.40
1:eQ:99:MET:HE3	1:eQ:99:MET:HB2	1.97	0.40
1:eQ:247:LYS:HE2	1:eQ:251:LEU:HD11	2.03	0.40
1:CR:294:ILE:HG22	1:CR:298:ARG:HE	1.87	0.40
1:IR:294:ILE:HG22	1:IR:298:ARG:HE	1.87	0.40
1:IR:321:VAL:HG21	1:IR:327:PHE:HE2	1.85	0.40
1:QR:169:LYS:HG3	1:QR:172:ARG:HH21	1.86	0.40
1:QR:203:GLU:O	1:QR:205:ILE:O	2.39	0.40
1:SR:260:GLN:HA	1:SR:260:GLN:NE2	2.36	0.40
1:TR:369:PHE:HB2	1:TR:371:GLU:HG2	2.03	0.40
1:bR:247:LYS:HE2	1:bR:251:LEU:HD11	2.04	0.40
1:gR:171:MET:HE3	1:gR:171:MET:HB3	1.88	0.40
1:gR:294:ILE:HG22	1:gR:298:ARG:HE	1.87	0.40
1:jR:28:ASP:N	1:jR:28:ASP:OD1	2.53	0.40
1:AS:242:THR:OG1	1:AS:243:THR:N	2.54	0.40
1:AS:348:ASN:HB3	2:ES:50:LYS:HB2	2.02	0.40
1:IS:194:LYS:HA	1:IS:340:LEU:HD11	2.02	0.40
1:C1:169:LYS:HG3	1:C1:172:ARG:HH21	1.86	0.40
1:C1:321:VAL:CG2	1:C1:327:PHE:HE2	2.34	0.40
1:A1:39:TRP:O	1:D1:222:SER:OG	2.32	0.40
1:A1:279:VAL:HG13	1:A1:318:THR:HA	2.02	0.40
1:B1:34:THR:HB	1:Y4:383:ALA:HB2	2.02	0.40
1:B1:367:PRO:O	1:Y4:377:HIS:NE2	2.55	0.40
1:I1:203:GLU:O	1:I1:205:ILE:O	2.39	0.40
1:J1:226:ILE:CG2	1:IG:299:ALA:CB	2.99	0.40
1:Q1:54:LEU:CG	1:IG:116:MET:SD	3.10	0.40
1:Q1:206:LEU:CD1	1:S1:244:ASP:CG	2.94	0.40
1:T1:137:ASP:OD2	1:BJ:49:PHE:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T1:369:PHE:HB2	1:T1:371:GLU:HG2	2.03	0.40
1:X1:169:LYS:HG3	1:X1:172:ARG:HH21	1.86	0.40
1:Y1:41:ASN:ND2	1:Y1:54:LEU:O	2.46	0.40
1:Y1:119:LYS:HD3	1:Y1:119:LYS:HA	1.89	0.40
1:Y1:240:ILE:HG22	1:Y1:242:THR:HG23	2.03	0.40
1:g1:226:ILE:HG22	1:CQ:299:ALA:HB1	2.02	0.40
1:i1:369:PHE:HB2	1:i1:371:GLU:HG2	2.03	0.40
2:m1:45:ILE:HG23	2:m1:46:HIS:CG	2.56	0.40
3:A2:66:ILE:H	1:KK:357:LYS:HE2	1.85	0.40
5:E2:14:ILE:HD13	5:E9:62:ARG:HE	1.85	0.40
5:E2:139:LYS:O	5:C2:143:LYS:HD2	2.22	0.40
5:N2:239:HIS:ND1	5:N2:241:ASP:OD1	2.51	0.40
1:B3:150:ASN:HD21	2:FQ:1:MET:H2	1.65	0.40
1:D3:179:SER:HB2	1:D3:392:LEU:HG	2.02	0.40
2:F3:43:VAL:HG12	2:EQ:38:GLU:HG3	2.03	0.40
1:I3:240:ILE:HG22	1:I3:242:THR:HG23	2.04	0.40
1:Q3:321:VAL:CG2	1:Q3:327:PHE:HE2	2.34	0.40
1:Y3:179:SER:OG	1:Y3:341:TYR:OH	2.29	0.40
2:Z3:38:GLU:HG3	2:dG:43:VAL:HG12	2.04	0.40
1:C4:132:THR:HG21	1:RG:111:ARG:HG2	1.23	0.40
1:I4:116:MET:SD	1:QL:54:LEU:CG	3.10	0.40
1:I4:299:ALA:CB	1:A8:226:ILE:CG2	2.99	0.40
1:J4:279:VAL:HG13	1:J4:318:THR:HA	2.02	0.40
1:L4:304:GLN:NE2	1:j7:98:ASN:O	2.48	0.40
1:L4:369:PHE:HB2	1:L4:371:GLU:HG2	2.03	0.40
1:Q4:206:LEU:CD1	1:S4:244:ASP:CG	2.94	0.40
1:T4:98:ASN:O	1:VE:304:GLN:NE2	2.48	0.40
2:U4:1:MET:HE2	2:GS:54:THR:HA	2.03	0.40
2:U4:16:GLU:HG2	1:BS:149:THR:CG2	2.51	0.40
1:X4:54:LEU:CG	1:CR:116:MET:SD	3.10	0.40
2:c4:43:VAL:HG12	2:M8:38:GLU:HG3	2.04	0.40
1:g4:100:ASP:OD1	1:DK:27:HIS:O	2.39	0.40
1:i4:55:PHE:CD2	1:BD:58:ILE:CD1	2.97	0.40
2:l4:2:TYR:O	1:DK:153:LEU:HD23	2.21	0.40
2:l4:11:MET:HE2	1:DK:372:VAL:HG21	2.02	0.40
3:A5:153:ASP:CA	3:A5:156:ILE:HG22	2.50	0.40
3:A5:190:ASP:HA	3:A5:193:ILE:HG22	2.03	0.40
4:B5:30:LEU:HD23	5:EO:64:TRP:CE3	2.56	0.40
5:D5:105:ILE:HG22	5:E5:104:ILE:HD11	2.02	0.40
5:N5:297:GLY:O	5:N5:320:ILE:HG22	2.20	0.40
1:A6:279:VAL:HG13	1:A6:318:THR:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B6:34:THR:HB	1:ZG:383:ALA:HB2	2.02	0.40
1:B6:367:PRO:O	1:ZG:377:HIS:NE2	2.55	0.40
1:D6:247:LYS:HE2	1:D6:251:LEU:HD11	2.03	0.40
2:F6:10:MET:HG2	1:dQ:365:HIS:CD2	2.55	0.40
1:I6:116:MET:SD	1:CL:54:LEU:CG	3.10	0.40
1:I6:139:ARG:HD2	1:YR:81:PHE:HE2	1.63	0.40
1:I6:184:SER:HB2	1:I6:219:HIS:CE1	2.55	0.40
1:K6:34:THR:HB	1:hG:383:ALA:HB2	2.02	0.40
1:L6:369:PHE:HB2	1:L6:371:GLU:HG2	2.03	0.40
1:Q6:171:MET:HB3	1:Q6:171:MET:HE3	1.88	0.40
1:Q6:203:GLU:O	1:Q6:205:ILE:O	2.39	0.40
1:S6:260:GLN:HA	1:S6:260:GLN:NE2	2.36	0.40
1:a6:34:THR:HB	1:JQ:383:ALA:HB2	2.02	0.40
1:b6:255:ILE:HA	1:b6:258:THR:HG22	2.02	0.40
1:g6:240:ILE:HG22	1:g6:242:THR:HG23	2.04	0.40
2:n6:2:TYR:CB	1:g7:150:ASN:OD1	2.53	0.40
1:C7:171:MET:HE3	1:C7:171:MET:HB3	1.88	0.40
1:C7:204:ALA:C	1:C7:205:ILE:O	2.60	0.40
2:H7:11:MET:SD	1:I7:372:VAL:HG12	2.60	0.40
1:I7:22:LEU:CD1	1:iR:47:GLU:OE2	2.67	0.40
1:I7:54:LEU:CG	1:gR:116:MET:SD	3.10	0.40
1:I7:294:ILE:HG22	1:I7:298:ARG:HE	1.87	0.40
1:R7:274:ASP:HB3	1:S7:210:ASN:HD22	1.86	0.40
1:R7:383:ALA:HB2	1:ME:34:THR:HB	2.02	0.40
1:Y7:171:MET:HE3	1:Y7:171:MET:HB3	1.87	0.40
1:Y7:206:LEU:CD1	1:a7:244:ASP:CG	2.94	0.40
1:Y7:360:LEU:HD13	1:Y7:360:LEU:HA	1.88	0.40
2:f7:11:MET:HE3	1:I8:372:VAL:CG1	2.51	0.40
1:j7:304:GLN:NE2	1:TG:98:ASN:O	2.48	0.40
1:C8:116:MET:SD	1:AE:54:LEU:CG	3.10	0.40
2:H8:11:MET:HG3	1:QL:372:VAL:CG1	2.45	0.40
1:I8:294:ILE:HG22	1:I8:298:ARG:HE	1.86	0.40
1:J8:240:ILE:HB	1:J8:270:VAL:HG22	2.02	0.40
2:P8:45:ILE:HG23	2:P8:46:HIS:CG	2.56	0.40
1:Q8:240:ILE:HG22	1:Q8:242:THR:HG23	2.04	0.40
1:h8:377:HIS:NE2	1:KL:367:PRO:O	2.54	0.40
2:k8:38:GLU:HG3	2:NL:43:VAL:HG12	2.03	0.40
4:B9:86:ILE:HD12	4:B9:86:ILE:HA	1.91	0.40
5:E9:18:LEU:HD12	5:DA:60:ALA:HB1	2.03	0.40
5:E9:54:LYS:HD2	5:F9:37:ASP:HB2	2.04	0.40
3:AA:114:PHE:CG	2:MK:8:ARG:CA	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:190:ASP:HA	3:AA:193:ILE:HG22	2.03	0.40
5:FA:98:ASP:OD1	5:FA:98:ASP:N	2.54	0.40
3:AB:271:ARG:HD3	3:AF:256:VAL:HG11	2.03	0.40
4:BB:151:ASN:HA	4:BF:188:ASP:HB3	2.03	0.40
3:AC:36:LEU:HD11	1:AP:145:LEU:HD13	1.12	0.40
1:DD:120:LEU:CD1	1:KS:55:PHE:CD1	2.79	0.40
1:KD:31:LYS:HA	1:IS:314:GLY:O	2.10	0.40
1:LD:315:ALA:HB1	1:YG:29:TYR:CB	2.50	0.40
1:DE:82:ILE:HA	1:DE:82:ILE:HD13	1.85	0.40
2:GE:11:MET:HB2	1:BP:372:VAL:CB	2.45	0.40
1:AE:294:ILE:HG22	1:AE:298:ARG:HE	1.87	0.40
1:FE:369:PHE:HB2	1:FE:371:GLU:HG2	2.03	0.40
2:HE:16:GLU:HG2	1:CP:149:THR:CG2	2.51	0.40
1:KE:12:LEU:HD21	1:KE:44:THR:HG22	2.01	0.40
1:KE:171:MET:HE3	1:KE:171:MET:HB3	1.87	0.40
1:KE:240:ILE:HG22	1:KE:242:THR:HG23	2.04	0.40
1:LE:274:ASP:HB3	1:ME:210:ASN:HD22	1.86	0.40
2:RE:11:MET:HG3	1:SE:372:VAL:CG1	2.45	0.40
1:UE:276:LEU:HD23	1:UE:276:LEU:HA	1.93	0.40
1:aE:206:LEU:CD1	1:cE:244:ASP:CG	2.94	0.40
2:hE:45:ILE:HG23	2:hE:46:HIS:CG	2.56	0.40
3:AF:271:ARG:HD3	3:AM:256:VAL:HG11	2.03	0.40
5:EF:54:LYS:HD2	5:FF:37:ASP:HB2	2.04	0.40
5:EF:140:ASP:OD2	5:CF:139:LYS:HE3	2.21	0.40
2:FG:1:MET:H3	1:SR:150:ASN:ND2	2.18	0.40
1:JG:77:LYS:HB2	1:JG:353:LYS:HG2	2.02	0.40
1:JG:279:VAL:HG13	1:JG:318:THR:HA	2.02	0.40
1:QG:203:GLU:O	1:QG:205:ILE:O	2.39	0.40
1:QG:206:LEU:CD1	1:SG:244:ASP:CG	2.94	0.40
1:RG:119:LYS:HA	1:RG:119:LYS:HD3	1.89	0.40
1:SG:360:LEU:HD13	1:SG:360:LEU:HA	1.98	0.40
1:jG:247:LYS:HE2	1:jG:251:LEU:HD11	2.03	0.40
4:BH:200:SER:HB2	4:BN:139:ASP:HB3	2.02	0.40
4:BH:251:TRP:HZ3	5:EN:39:ASN:ND2	2.19	0.40
3:AI:112:ILE:HA	2:MJ:5:ASN:HA	1.25	0.40
1:AJ:140:PHE:CE1	3:AN:26:ARG:HD3	2.56	0.40
1:BJ:95:VAL:HA	1:BJ:96:PRO:HD3	1.97	0.40
1:BJ:370:ASP:OD2	1:gL:377:HIS:CE1	2.74	0.40
1:CJ:213:ALA:HA	1:CJ:230:THR:HA	2.04	0.40
1:CJ:243:THR:HG1	1:CJ:246:LEU:H	1.69	0.40
2:EJ:2:TYR:HB3	2:hL:54:THR:OG1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:99:MET:HE1	1:JS:369:PHE:O	2.21	0.40
1:LJ:143:GLN:O	1:CS:82:ILE:CG2	2.69	0.40
1:CK:175:LEU:HD23	1:CK:175:LEU:HA	1.94	0.40
1:LK:101:LEU:CD2	1:jR:369:PHE:HB3	2.51	0.40
1:LK:149:THR:N	2:FP:15:TYR:HD2	2.05	0.40
1:LK:362:PRO:HA	1:LK:363:PRO:HD3	1.83	0.40
2:NK:22:LYS:NZ	2:NK:25:GLU:H	2.20	0.40
7:SK:25:ALA:H	7:SK:29:ALA:HA	1.87	0.40
1:CL:294:ILE:HG22	1:CL:298:ARG:HE	1.87	0.40
1:BL:19:LYS:NZ	1:BL:37:ASP:OD1	2.37	0.40
2:FL:43:VAL:HG12	2:ML:38:GLU:HG3	2.03	0.40
2:PL:45:ILE:HG23	2:PL:46:HIS:CG	2.56	0.40
1:YL:184:SER:HB2	1:YL:219:HIS:CE1	2.55	0.40
1:aL:209:GLN:NE2	1:aL:235:LEU:HB2	2.36	0.40
1:gL:172:ARG:NH1	1:gL:277:GLY:H	2.16	0.40
4:BM:117:GLU:N	4:BM:220:THR:O	2.51	0.40
5:DM:38:TYR:HH	3:AO:17:SER:C	2.29	0.40
5:EM:139:LYS:O	5:CM:143:LYS:HD2	2.22	0.40
3:AN:190:ASP:HA	3:AN:193:ILE:HG22	2.03	0.40
1:BP:127:LYS:O	1:BP:377:HIS:HA	2.21	0.40
1:CP:51:ASN:HB2	1:CP:54:LEU:HD23	2.03	0.40
2:NP:26:LEU:HD11	2:NP:30:MET:H	1.86	0.40
1:CQ:372:VAL:HG12	2:iQ:11:MET:SD	2.60	0.40
1:AQ:271:ILE:HG22	2:HQ:45:ILE:HD11	2.02	0.40
1:DQ:247:LYS:HE2	1:DQ:251:LEU:HD11	2.04	0.40
1:IQ:169:LYS:HG3	1:IQ:172:ARG:HH21	1.86	0.40
1:KQ:39:TRP:O	1:ZR:222:SER:OG	2.33	0.40
1:LQ:28:ASP:N	1:LQ:28:ASP:OD1	2.54	0.40
1:SQ:34:THR:HB	1:JR:383:ALA:HB2	2.02	0.40
1:TQ:247:LYS:HE2	1:TQ:251:LEU:HD11	2.03	0.40
1:TQ:369:PHE:HB2	1:TQ:371:GLU:HG2	2.03	0.40
1:ZR:264:ILE:H	1:ZR:264:ILE:HG13	1.76	0.40
1:ZR:271:ILE:HG22	2:fR:45:ILE:HD11	2.02	0.40
1:gR:184:SER:HB2	1:gR:219:HIS:CE1	2.55	0.40
1:gR:206:LEU:CD1	1:iR:244:ASP:CG	2.94	0.40
1:hR:64:ILE:CG1	2:kR:53:PHE:CD2	2.95	0.40
1:iR:209:GLN:NE2	1:iR:235:LEU:HB2	2.36	0.40
1:jR:369:PHE:HB2	1:jR:371:GLU:HG2	2.03	0.40
1:AS:340:LEU:HD22	1:AS:340:LEU:HA	1.92	0.40
1:JS:86:SER:O	1:JS:121:TYR:CB	2.62	0.40
1:KS:238:ILE:H	1:KS:238:ILE:HG13	1.77	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:362:PRO:HA	1:C1:363:PRO:HD3	1.84	0.40
1:I1:289:GLN:N	1:I1:326:GLU:OE2	2.46	0.40
1:I1:290:ASN:N	1:I1:326:GLU:OE2	2.49	0.40
1:I1:362:PRO:HA	1:I1:363:PRO:HD3	1.84	0.40
1:J1:274:ASP:HB3	1:K1:210:ASN:HD22	1.86	0.40
1:K1:54:LEU:HD13	1:Y6:141:ASN:HB3	2.03	0.40
2:N1:43:VAL:HG12	2:OE:38:GLU:HG3	2.04	0.40
2:P1:2:TYR:CB	1:Q1:150:ASN:OD1	2.53	0.40
1:R1:89:TYR:CZ	1:Q6:63:LEU:HD13	2.51	0.40
1:T1:47:GLU:OE2	1:BJ:22:LEU:HD22	2.22	0.40
2:U1:16:GLU:HG2	1:CJ:149:THR:CG2	2.51	0.40
1:X1:204:ALA:C	1:X1:205:ILE:O	2.60	0.40
1:X1:372:VAL:CG1	2:X3:11:MET:HE3	2.51	0.40
1:Y1:274:ASP:HB3	1:Z1:210:ASN:HD22	1.86	0.40
1:g1:377:HIS:NE2	1:K7:367:PRO:O	2.55	0.40
1:h1:14:VAL:HA	1:QG:45:MET:HG2	2.02	0.40
2:k1:43:VAL:HG12	2:E4:38:GLU:HG3	2.03	0.40
2:m1:2:TYR:CD2	1:gR:153:LEU:HD23	2.56	0.40
3:A2:256:VAL:HG11	3:A9:271:ARG:HD3	2.03	0.40
4:B2:6:MET:HG2	4:B2:7:THR:O	2.22	0.40
4:B2:148:SER:OG	4:BB:191:LYS:HB2	2.21	0.40
5:E2:39:ASN:ND2	4:BB:251:TRP:HZ3	2.19	0.40
5:E2:66:TYR:CA	5:EB:10:TYR:CZ	2.80	0.40
1:C3:169:LYS:HG3	1:C3:172:ARG:HH21	1.86	0.40
1:C3:206:LEU:CD1	1:B3:244:ASP:CG	2.94	0.40
2:F3:36:LYS:HE2	2:F3:36:LYS:HB3	1.94	0.40
1:I3:314:GLY:O	1:I4:31:LYS:HG3	2.21	0.40
1:I3:360:LEU:HA	1:I3:360:LEU:HD13	1.88	0.40
1:K3:45:MET:O	1:I4:20:SER:HA	2.22	0.40
1:Q3:48:THR:HG22	1:Z4:137:ASP:OD1	2.17	0.40
1:Q3:240:ILE:HG22	1:Q3:242:THR:HG23	2.04	0.40
1:Q3:294:ILE:HG22	1:Q3:298:ARG:HE	1.87	0.40
1:Q3:314:GLY:O	1:CR:31:LYS:HG3	2.21	0.40
1:T3:369:PHE:HB2	1:T3:371:GLU:HG2	2.03	0.40
1:T3:385:SER:O	1:T3:390:LYS:NZ	2.48	0.40
1:Y3:123:ASN:HD21	1:BK:21:ALA:HB2	1.82	0.40
1:b3:377:HIS:CE1	1:BD:370:ASP:OD2	2.74	0.40
2:c3:54:THR:OG1	2:ED:2:TYR:HB3	2.21	0.40
1:C4:139:ARG:CD	1:CG:81:PHE:CE2	2.71	0.40
1:K4:367:PRO:O	1:RR:377:HIS:NE2	2.54	0.40
1:Q4:45:MET:HG2	1:KL:14:VAL:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q4:203:GLU:O	1:Q4:205:ILE:O	2.39	0.40
1:R4:109:LEU:HD12	1:IS:106:GLU:CB	2.50	0.40
1:R4:119:LYS:HD3	1:R4:119:LYS:HA	1.89	0.40
1:S4:276:LEU:HD23	1:S4:276:LEU:HA	1.93	0.40
1:T4:179:SER:HB2	1:T4:392:LEU:HG	2.02	0.40
1:T4:255:ILE:HA	1:T4:258:THR:HG22	2.02	0.40
1:a4:28:ASP:OD1	1:a4:28:ASP:N	2.54	0.40
1:g4:111:ARG:HG2	1:YG:132:THR:HG21	1.23	0.40
1:g4:168:GLU:OE2	1:h4:211:ASN:ND2	2.38	0.40
2:l4:45:ILE:HG23	2:l4:46:HIS:CG	2.56	0.40
3:A5:256:VAL:HG11	3:AI:271:ARG:HD3	2.02	0.40
4:B5:139:ASP:HB3	4:BN:200:SER:HB2	2.02	0.40
5:E5:54:LYS:HD2	5:F5:37:ASP:HB2	2.03	0.40
1:C6:169:LYS:HG3	1:C6:172:ARG:HH21	1.86	0.40
1:C6:321:VAL:HG21	1:C6:327:PHE:HE2	1.85	0.40
1:I6:141:ASN:HB3	1:aR:54:LEU:HD13	2.03	0.40
1:I6:206:LEU:CD1	1:K6:244:ASP:CG	2.94	0.40
1:I6:314:GLY:O	1:CL:31:LYS:HG3	2.21	0.40
1:J6:377:HIS:NE2	1:K8:367:PRO:O	2.54	0.40
1:L6:28:ASP:N	1:L6:28:ASP:OD1	2.53	0.40
1:Q6:25:PHE:CE1	1:LJ:126:VAL:HG12	2.57	0.40
1:R6:377:HIS:NE2	1:KG:367:PRO:O	2.54	0.40
1:S6:57:LYS:HD3	1:CS:143:GLN:HE21	1.31	0.40
1:T6:247:LYS:HE2	1:T6:251:LEU:HD11	2.04	0.40
1:Y6:203:GLU:O	1:Y6:205:ILE:O	2.39	0.40
1:Y6:240:ILE:HG22	1:Y6:242:THR:HG23	2.04	0.40
1:Y6:294:ILE:HG22	1:Y6:298:ARG:HE	1.87	0.40
1:g6:118:THR:HG21	1:DJ:54:LEU:HA	2.03	0.40
1:h6:77:LYS:HB2	1:h6:353:LYS:HG2	2.02	0.40
1:j6:28:ASP:OD1	1:j6:28:ASP:N	2.54	0.40
2:k6:38:GLU:HG3	2:F8:43:VAL:HG12	2.04	0.40
1:C7:30:SER:O	1:LK:316:VAL:N	2.52	0.40
1:A7:240:ILE:HG22	1:A7:242:THR:HG23	2.03	0.40
1:A7:377:HIS:NE2	1:BQ:367:PRO:O	2.55	0.40
1:B7:45:MET:HB2	1:DP:16:LYS:HB3	1.89	0.40
2:H7:45:ILE:HG23	2:H7:46:HIS:CG	2.56	0.40
1:I7:31:LYS:HG3	1:gR:314:GLY:O	2.21	0.40
1:I7:203:GLU:O	1:I7:205:ILE:O	2.39	0.40
1:K7:14:VAL:HA	1:CQ:45:MET:HG2	2.02	0.40
1:K7:19:LYS:NZ	1:K7:37:ASP:OD1	2.37	0.40
1:Y7:116:MET:SD	1:KE:54:LEU:CG	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z7:271:ILE:HG22	2:f7:45:ILE:HD11	2.02	0.40
1:a7:260:GLN:HA	1:a7:260:GLN:NE2	2.36	0.40
1:h7:279:VAL:HG13	1:h7:318:THR:HA	2.02	0.40
1:i7:360:LEU:HD13	1:i7:360:LEU:HA	1.98	0.40
1:j7:369:PHE:HB2	1:j7:371:GLU:HG2	2.03	0.40
1:A8:55:PHE:HA	1:A8:56:PRO:HD3	1.90	0.40
1:L8:28:ASP:OD1	1:L8:28:ASP:N	2.54	0.40
1:S8:45:MET:O	1:IG:20:SER:HA	2.22	0.40
1:T8:28:ASP:OD1	1:T8:28:ASP:N	2.54	0.40
2:U8:44:GLN:HB3	2:U8:45:ILE:H	1.63	0.40
1:Y8:321:VAL:HG21	1:Y8:327:PHE:HE2	1.85	0.40
1:b8:28:ASP:N	1:b8:28:ASP:OD1	2.54	0.40
2:f8:45:ILE:HG23	2:f8:46:HIS:CG	2.56	0.40
1:g8:25:PHE:CE1	1:KS:126:VAL:HG12	2.57	0.40
1:g8:365:HIS:HD2	2:MS:10:MET:HG2	1.87	0.40
1:h8:271:ILE:HG22	2:n8:45:ILE:HD11	2.02	0.40
3:A9:65:ASN:HB3	1:AK:146:ALA:HB1	1.67	0.40
4:B9:6:MET:HG2	4:B9:7:THR:O	2.22	0.40
5:E9:112:TYR:O	5:E9:116:LEU:HB2	2.22	0.40
5:DA:45:TYR:HB3	5:EA:45:TYR:CE1	2.57	0.40
5:DA:104:ILE:HG22	5:FA:101:ILE:HD13	2.03	0.40
5:OA:216:VAL:HG12	5:OA:217:GLN:HG3	2.03	0.40
3:AB:46:THR:OG1	3:AF:325:ILE:HG23	2.22	0.40
3:AB:288:ILE:HD12	3:AB:288:ILE:HA	1.96	0.40
4:BB:154:GLY:HA3	4:BF:184:ASN:CB	2.49	0.40
5:DB:45:TYR:HB3	5:EB:45:TYR:CE1	2.57	0.40
5:DB:56:ILE:HD12	5:DB:56:ILE:HA	1.99	0.40
3:AC:325:ILE:HG23	3:AH:46:THR:OG1	2.22	0.40
1:AD:194:LYS:HA	1:AD:340:LEU:HD11	2.02	0.40
1:AD:268:ASP:HA	2:ND:44:GLN:HB2	2.03	0.40
1:BD:242:THR:OG1	1:BD:243:THR:N	2.54	0.40
1:BD:348:ASN:HB3	2:FD:50:LYS:HB2	2.02	0.40
1:CD:45:MET:SD	1:CD:45:MET:N	2.94	0.40
1:KD:153:LEU:HD22	2:LS:6:ASN:HA	2.03	0.40
1:KD:369:PHE:O	1:JS:99:MET:HE1	2.21	0.40
8:QD:115:ALA:HB1	8:QD:118:ALA:HB3	2.03	0.40
1:DE:82:ILE:CG1	1:BP:145:LEU:HD21	2.52	0.40
1:DE:255:ILE:HA	1:DE:258:THR:HG22	2.02	0.40
1:AE:203:GLU:O	1:AE:205:ILE:O	2.39	0.40
1:AE:240:ILE:HG22	1:AE:242:THR:HG23	2.04	0.40
1:BE:178:TYR:CD1	1:CP:35:PHE:CE2	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:279:VAL:HG13	1:BE:318:THR:HA	2.02	0.40
1:NE:28:ASP:OD1	1:NE:28:ASP:N	2.54	0.40
1:TE:279:VAL:HG13	1:TE:318:THR:HA	2.02	0.40
1:VE:369:PHE:HB2	1:VE:371:GLU:HG2	2.03	0.40
1:cE:47:GLU:OE2	1:CG:22:LEU:CD1	2.67	0.40
1:cE:54:LEU:HD13	1:CG:141:ASN:HB3	2.03	0.40
3:AF:287:PRO:HA	3:AF:290:PHE:CD2	2.56	0.40
4:BF:6:MET:HG2	4:BF:7:THR:O	2.22	0.40
1:DG:179:SER:HB2	1:DG:392:LEU:HG	2.02	0.40
1:LG:369:PHE:HB2	1:LG:371:GLU:HG2	2.03	0.40
1:QG:289:GLN:N	1:QG:326:GLU:OE2	2.46	0.40
1:RG:240:ILE:HG22	1:RG:242:THR:HG23	2.03	0.40
1:SG:62:LEU:HD23	1:SG:62:LEU:HA	1.91	0.40
1:jG:99:MET:HE3	1:jG:99:MET:HB2	1.97	0.40
5:OH:216:VAL:HG12	5:OH:217:GLN:HG3	2.03	0.40
4:BI:30:LEU:HD23	5:EM:64:TRP:CE3	2.56	0.40
5:DI:69:GLU:OE2	5:DI:73:ARG:NH2	2.46	0.40
1:AJ:194:LYS:HA	1:AJ:340:LEU:HD11	2.02	0.40
1:CJ:45:MET:SD	1:CJ:45:MET:N	2.94	0.40
1:DJ:99:MET:HE3	1:KJ:128:LYS:HG2	2.02	0.40
1:DJ:116:MET:CE	1:LP:54:LEU:CD1	2.95	0.40
1:KJ:242:THR:HG21	1:KJ:246:LEU:HD12	2.02	0.40
1:LJ:16:LYS:HD2	1:LJ:19:LYS:HG2	2.02	0.40
2:MJ:2:TYR:CE2	1:JS:153:LEU:CG	2.95	0.40
1:BK:79:GLN:HB3	1:BK:353:LYS:HD3	2.04	0.40
1:CK:38:LYS:CE	1:hR:222:SER:CA	1.77	0.40
1:CK:45:MET:SD	1:CK:45:MET:N	2.94	0.40
1:DK:92:MET:HB2	1:DK:115:ARG:HD3	2.03	0.40
1:KK:105:GLU:CD	1:DP:109:LEU:CB	2.65	0.40
1:LK:16:LYS:HD2	1:LK:19:LYS:HG2	2.02	0.40
1:LK:57:LYS:HD2	1:KP:143:GLN:OE1	1.85	0.40
1:LK:384:ILE:HG21	1:LK:384:ILE:HD13	1.88	0.40
1:CL:203:GLU:O	1:CL:205:ILE:O	2.39	0.40
1:BL:367:PRO:O	1:JL:377:HIS:NE2	2.55	0.40
1:TL:369:PHE:HB2	1:TL:371:GLU:HG2	2.03	0.40
5:DM:80:LEU:HD21	5:FM:84:PHE:CD2	2.55	0.40
5:OM:216:VAL:HG12	5:OM:217:GLN:HG3	2.03	0.40
3:AO:66:ILE:HD13	1:IS:150:ASN:HD21	1.79	0.40
1:BQ:54:LEU:HD13	1:gR:141:ASN:HB3	2.03	0.40
1:IQ:206:LEU:CD1	1:KQ:244:ASP:CG	2.94	0.40
2:NQ:43:VAL:HG12	2:cR:38:GLU:HG3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:YQ:385:SER:O	1:YQ:390:LYS:NZ	2.48	0.40
2:ZQ:33:ASP:O	2:ZQ:36:LYS:NZ	2.43	0.40
1:CR:321:VAL:HG22	1:CR:327:PHE:CE2	2.51	0.40
1:DR:255:ILE:HA	1:DR:258:THR:HG22	2.02	0.40
1:IR:354:ARG:HH11	1:IR:354:ARG:HD3	1.74	0.40
2:XR:45:ILE:HG23	2:XR:46:HIS:CG	2.56	0.40
1:YR:171:MET:HE3	1:YR:171:MET:HB3	1.88	0.40
1:gR:362:PRO:HA	1:gR:363:PRO:HD3	1.85	0.40
1:IS:61:THR:O	1:IS:62:LEU:C	2.62	0.40
1:JS:281:LYS:NZ	1:JS:313:VAL:O	2.32	0.40
1:C1:294:ILE:HG22	1:C1:298:ARG:HE	1.87	0.40
1:C1:321:VAL:HG21	1:C1:327:PHE:HE2	1.85	0.40
1:A1:274:ASP:HB3	1:B1:210:ASN:HD22	1.86	0.40
1:B1:209:GLN:NE2	1:B1:235:LEU:HB2	2.36	0.40
1:Q1:50:VAL:N	1:KG:137:ASP:OD2	2.55	0.40
1:Q1:294:ILE:HG22	1:Q1:298:ARG:HE	1.87	0.40
1:R1:108:MET:SD	1:CS:366:ASN:OD1	2.80	0.40
1:R1:109:LEU:CD1	1:AJ:106:GLU:CB	3.00	0.40
1:S1:134:ASN:HD21	1:K3:101:LEU:HD21	1.87	0.40
1:Y1:222:SER:OG	1:aR:39:TRP:O	2.33	0.40
1:Y1:377:HIS:NE2	1:aR:367:PRO:O	2.55	0.40
2:e1:11:MET:HE3	1:CL:372:VAL:CG1	2.51	0.40
2:e1:45:ILE:HG23	2:e1:46:HIS:CG	2.56	0.40
1:f1:50:VAL:N	1:B3:137:ASP:OD2	2.55	0.40
1:f1:54:LEU:CG	1:C3:116:MET:SD	3.10	0.40
1:h1:45:MET:O	1:QG:20:SER:HA	2.22	0.40
1:h1:101:LEU:HD21	1:K7:134:ASN:HD21	1.87	0.40
3:A2:157:ILE:HD12	3:A2:157:ILE:HA	1.86	0.40
5:D2:123:PHE:HE2	5:F2:124:LYS:HG3	1.86	0.40
5:E2:140:ASP:OD2	5:C2:139:LYS:HE3	2.20	0.40
5:F2:25:ARG:HH12	5:D9:39:ASN:HD22	1.68	0.40
5:C2:265:LEU:CD1	5:N9:231:ASN:CA	2.74	0.40
1:J3:41:ASN:ND2	1:J3:54:LEU:O	2.46	0.40
1:L3:28:ASP:OD1	1:L3:28:ASP:N	2.54	0.40
1:Q3:116:MET:SD	1:CR:54:LEU:CG	3.10	0.40
1:Q3:203:GLU:O	1:Q3:205:ILE:O	2.39	0.40
1:R3:274:ASP:HB3	1:S3:210:ASN:HD22	1.86	0.40
1:S3:101:LEU:HD21	1:KR:134:ASN:HD21	1.87	0.40
1:Y3:247:LYS:HE2	1:Y3:251:LEU:HD11	2.03	0.40
1:b3:247:LYS:HE2	1:b3:251:LEU:HD11	2.03	0.40
2:d3:2:TYR:H	1:BD:150:ASN:HD21	1.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C4:314:GLY:O	1:aE:31:LYS:HG3	2.21	0.40
1:C4:354:ARG:HH11	1:C4:354:ARG:HD3	1.74	0.40
1:K4:137:ASP:OD2	1:QL:50:VAL:N	2.55	0.40
2:P4:45:ILE:HG23	2:P4:46:HIS:CG	2.56	0.40
1:R4:240:ILE:HG22	1:R4:242:THR:HG23	2.03	0.40
1:S4:367:PRO:O	1:TE:377:HIS:NE2	2.55	0.40
1:X4:360:LEU:HD13	1:X4:360:LEU:HA	1.88	0.40
1:Z4:134:ASN:HD21	1:K8:101:LEU:HD21	1.87	0.40
1:g4:109:LEU:CD1	1:AD:106:GLU:CB	3.00	0.40
1:h4:134:ASN:HD21	1:BL:101:LEU:HD21	1.87	0.40
1:i4:28:ASP:OD1	1:i4:28:ASP:N	2.54	0.40
2:j4:4:GLY:HA3	1:CD:153:LEU:HD21	2.04	0.40
3:A5:153:ASP:C	1:AJ:139:ARG:NH1	2.79	0.40
5:D5:101:ILE:HA	5:D5:104:ILE:HG12	2.03	0.40
5:E5:64:TRP:CE3	4:BH:30:LEU:HD23	2.57	0.40
5:E5:64:TRP:HH2	4:BH:25:VAL:HG12	1.87	0.40
5:C5:244:ALA:HB3	5:OI:351:ASN:O	2.20	0.40
1:C6:153:LEU:HD23	2:HL:2:TYR:CD2	2.56	0.40
1:B6:150:ASN:HD21	2:dG:1:MET:H2	1.67	0.40
1:D6:82:ILE:HD13	1:D6:82:ILE:HA	1.85	0.40
1:I6:240:ILE:HG22	1:I6:242:THR:HG23	2.04	0.40
1:J6:119:LYS:HA	1:J6:119:LYS:HD3	1.89	0.40
1:K6:209:GLN:NE2	1:K6:235:LEU:HB2	2.36	0.40
1:S6:135:ASN:O	1:AS:81:PHE:CZ	2.74	0.40
1:S6:137:ASP:HB3	1:CS:50:VAL:HG21	2.03	0.40
2:X6:45:ILE:HG23	2:X6:46:HIS:CG	2.56	0.40
1:Z6:279:VAL:HG13	1:Z6:318:THR:HA	2.02	0.40
1:g6:29:TYR:CD2	1:LP:317:PHE:CD1	2.93	0.40
1:g6:37:ASP:OD1	1:LP:120:LEU:O	2.39	0.40
1:h6:274:ASP:HB3	1:i6:210:ASN:HD22	1.86	0.40
1:i6:57:LYS:CG	1:DJ:143:GLN:CD	2.69	0.40
1:i6:260:GLN:HA	1:i6:260:GLN:NE2	2.36	0.40
1:j6:82:ILE:HD13	1:j6:82:ILE:HA	1.85	0.40
1:C7:29:TYR:CB	1:LK:315:ALA:HB1	2.50	0.40
1:C7:310:THR:HB	1:DP:27:HIS:HE1	1.69	0.40
1:C7:354:ARG:HH11	1:C7:354:ARG:HD3	1.74	0.40
1:I7:116:MET:SD	1:CQ:54:LEU:CG	3.10	0.40
1:K7:101:LEU:HD21	1:a8:134:ASN:HD21	1.87	0.40
1:Q7:54:LEU:CG	1:YL:116:MET:SD	3.10	0.40
1:R7:240:ILE:HG22	1:R7:242:THR:HG23	2.03	0.40
1:R7:377:HIS:NE2	1:ME:367:PRO:O	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S7:45:MET:O	1:QR:20:SER:HA	2.22	0.40
1:S7:101:LEU:HD21	1:ME:134:ASN:HD21	1.87	0.40
1:S7:109:LEU:H	1:S7:109:LEU:HG	1.76	0.40
1:T7:255:ILE:HB	1:TL:252:ASP:HB2	2.04	0.40
1:Y7:240:ILE:HG22	1:Y7:242:THR:HG23	2.04	0.40
1:a7:54:LEU:HD13	1:KE:141:ASN:HB3	2.03	0.40
1:a7:131:PHE:HB3	1:a7:159:LYS:HE2	2.04	0.40
1:h7:377:HIS:NE2	1:SG:367:PRO:O	2.55	0.40
1:i7:209:GLN:NE2	1:i7:235:LEU:HB2	2.36	0.40
1:B8:54:LEU:HD13	1:AE:141:ASN:HB3	2.03	0.40
2:H8:2:TYR:CB	1:QL:150:ASN:OD1	2.53	0.40
1:I8:22:LEU:CD1	1:KR:47:GLU:OE2	2.67	0.40
1:J8:362:PRO:HA	1:J8:363:PRO:HD3	1.83	0.40
1:L8:179:SER:OG	1:L8:341:TYR:OH	2.29	0.40
1:Q8:314:GLY:O	1:IG:31:LYS:HG3	2.21	0.40
1:S8:101:LEU:HD21	1:SL:134:ASN:HD21	1.87	0.40
1:i8:21:ALA:HA	1:BD:123:ASN:ND2	2.36	0.40
5:C9:239:HIS:ND1	5:C9:241:ASP:OD1	2.51	0.40
3:AA:63:ARG:HD3	3:AA:63:ARG:HA	1.97	0.40
4:BA:188:ASP:HB3	4:BC:151:ASN:HA	2.03	0.40
4:BA:200:SER:HB2	4:BC:139:ASP:HB3	2.02	0.40
4:BA:233:ASP:OD1	4:BA:233:ASP:N	2.50	0.40
5:EA:54:LYS:HD2	5:FA:37:ASP:HB2	2.04	0.40
5:CA:331:MET:HB2	5:CA:343:TRP:CZ2	2.57	0.40
3:AB:190:ASP:HA	3:AB:193:ILE:HG22	2.03	0.40
5:DB:33:ASP:HA	3:AF:25:ASN:CG	2.47	0.40
3:AC:288:ILE:HD12	3:AC:288:ILE:HA	1.96	0.40
1:AD:49:PHE:O	1:AD:51:ASN:N	2.50	0.40
1:AD:260:GLN:HB2	1:LD:256:ALA:HA	2.03	0.40
1:BD:242:THR:HG21	1:BD:246:LEU:HD12	2.03	0.40
1:CD:45:MET:SD	1:YG:13:LEU:C	2.92	0.40
1:CD:324:LEU:HD23	1:CD:324:LEU:HA	1.93	0.40
2:HD:35:ASN:H	1:LD:209:GLN:HB3	1.86	0.40
1:LD:120:LEU:O	1:YG:37:ASP:OD1	2.39	0.40
1:LD:126:VAL:HG12	1:YG:25:PHE:CE1	2.57	0.40
1:DE:377:HIS:CE1	1:BP:370:ASP:OD2	2.74	0.40
2:EE:54:THR:OG1	2:EP:2:TYR:HB3	2.21	0.40
1:KE:360:LEU:HA	1:KE:360:LEU:HD13	1.88	0.40
1:ME:54:LEU:HD13	1:QQ:141:ASN:HB3	2.03	0.40
1:ME:260:GLN:HA	1:ME:260:GLN:NE2	2.36	0.40
1:UE:360:LEU:HD13	1:UE:360:LEU:HA	1.98	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZE:2:TYR:CD2	1:IL:153:LEU:HD23	2.56	0.40
1:aE:203:GLU:O	1:aE:205:ILE:O	2.39	0.40
1:cE:45:MET:O	1:CG:20:SER:HA	2.22	0.40
1:cE:109:LEU:H	1:cE:109:LEU:HG	1.76	0.40
2:fE:43:VAL:HG12	2:cL:38:GLU:HG3	2.03	0.40
5:EF:62:ARG:HE	5:EM:14:ILE:HD13	1.85	0.40
1:CG:203:GLU:O	1:CG:205:ILE:O	2.39	0.40
1:BG:150:ASN:ND2	2:VG:1:MET:H3	2.17	0.40
1:DG:360:LEU:HD23	1:DG:360:LEU:HA	1.96	0.40
2:FG:43:VAL:HG12	2:UG:38:GLU:HG3	2.03	0.40
2:VG:36:LYS:HE2	2:VG:36:LYS:HB3	1.94	0.40
5:DH:9:LYS:HD3	5:DH:9:LYS:HA	1.70	0.40
5:DH:55:LEU:H	5:DH:55:LEU:HG	1.62	0.40
5:EH:54:LYS:HD2	5:FH:37:ASP:HB2	2.04	0.40
5:DI:45:TYR:HB3	5:EI:45:TYR:CE1	2.57	0.40
5:DI:123:PHE:CE2	5:FI:124:LYS:HG3	2.57	0.40
5:EI:139:LYS:O	5:CI:143:LYS:HD2	2.22	0.40
5:FI:98:ASP:OD1	5:FI:98:ASP:N	2.54	0.40
5:OI:216:VAL:HG12	5:OI:217:GLN:HG3	2.03	0.40
5:OI:331:MET:HB2	5:OI:343:TRP:CZ2	2.57	0.40
1:BJ:79:GLN:HB3	1:BJ:353:LYS:HD3	2.04	0.40
1:BJ:145:LEU:HD21	1:gL:82:ILE:CG1	2.52	0.40
1:KJ:73:ASN:HD21	1:KJ:354:ARG:HH12	1.69	0.40
1:KJ:78:GLU:HG3	3:AN:66:ILE:CB	2.51	0.40
1:KJ:362:PRO:HA	1:KJ:363:PRO:HD3	1.86	0.40
1:KJ:369:PHE:O	1:KP:99:MET:HE1	2.21	0.40
1:AK:172:ARG:NH1	1:AK:275:ASP:O	2.54	0.40
1:BK:127:LYS:O	1:BK:377:HIS:HA	2.21	0.40
1:BK:355:TYR:HB3	1:BK:379:TYR:HB3	2.04	0.40
1:CK:85:TYR:HB3	1:CK:120:LEU:HD11	2.03	0.40
1:CK:153:LEU:HD21	2:kR:4:GLY:HA3	2.04	0.40
1:CL:116:MET:SD	1:YR:54:LEU:CG	3.10	0.40
1:BL:134:ASN:HD21	1:KL:101:LEU:HD21	1.87	0.40
2:HL:45:ILE:HG23	2:HL:46:HIS:CG	2.56	0.40
1:IL:50:VAL:N	1:KQ:137:ASP:OD2	2.55	0.40
1:IL:54:LEU:CG	1:IQ:116:MET:SD	3.10	0.40
1:RL:119:LYS:HD3	1:RL:119:LYS:HA	1.89	0.40
5:DM:101:ILE:HA	5:DM:104:ILE:HG12	2.03	0.40
5:DM:104:ILE:HG22	5:FM:101:ILE:HD13	2.03	0.40
5:ON:331:MET:HB2	5:ON:343:TRP:CZ2	2.57	0.40
5:NO:216:VAL:HG12	5:NO:217:GLN:HG3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:110:LYS:O	1:LP:130:LYS:NZ	2.42	0.40
1:BP:326:GLU:OE1	1:BP:326:GLU:HA	2.21	0.40
1:DP:92:MET:HB2	1:DP:115:ARG:HD3	2.03	0.40
1:DP:294:ILE:HG22	1:DP:298:ARG:HE	1.86	0.40
1:DP:349:SER:HA	1:DP:385:SER:HB3	2.03	0.40
1:KP:75:LEU:HD13	1:KP:75:LEU:HA	1.93	0.40
1:CQ:240:ILE:HG22	1:CQ:242:THR:HG23	2.04	0.40
1:BQ:45:MET:O	1:gR:20:SER:HA	2.22	0.40
1:LQ:179:SER:HB2	1:LQ:392:LEU:HG	2.02	0.40
2:NQ:36:LYS:HE2	2:NQ:36:LYS:HB3	1.94	0.40
1:QQ:203:GLU:O	1:QQ:205:ILE:O	2.39	0.40
1:RQ:240:ILE:HG22	1:RQ:242:THR:HG23	2.03	0.40
1:YQ:82:ILE:CG1	1:AS:145:LEU:HD21	2.52	0.40
1:cQ:383:ALA:HB2	1:iR:34:THR:HB	2.02	0.40
1:CR:240:ILE:HG22	1:CR:242:THR:HG23	2.04	0.40
1:AR:240:ILE:HG22	1:AR:242:THR:HG23	2.03	0.40
1:DR:247:LYS:HE2	1:DR:251:LEU:HD11	2.03	0.40
1:IR:204:ALA:C	1:IR:205:ILE:O	2.60	0.40
1:IR:321:VAL:CG2	1:IR:327:PHE:HE2	2.34	0.40
2:NR:22:LYS:HA	2:NR:22:LYS:HD2	1.73	0.40
1:RR:55:PHE:O	1:RR:57:LYS:NZ	2.46	0.40
1:SR:209:GLN:NE2	1:SR:235:LEU:HB2	2.36	0.40
1:TR:247:LYS:HE2	1:TR:251:LEU:HD11	2.04	0.40
1:YR:240:ILE:HG22	1:YR:242:THR:HG23	2.04	0.40
1:ZR:41:ASN:ND2	1:ZR:54:LEU:O	2.46	0.40
1:ZR:119:LYS:HD3	1:ZR:119:LYS:HA	1.89	0.40
1:gR:240:ILE:HG22	1:gR:242:THR:HG23	2.04	0.40
1:gR:290:ASN:N	1:gR:326:GLU:OE2	2.49	0.40
1:jR:82:ILE:HA	1:jR:82:ILE:HD13	1.85	0.40
1:jR:247:LYS:HE2	1:jR:251:LEU:HD11	2.04	0.40
1:AS:79:GLN:CD	1:AS:81:PHE:H	2.29	0.40
1:BS:213:ALA:HA	1:BS:230:THR:HA	2.04	0.40
1:CS:92:MET:HB2	1:CS:115:ARG:HD3	2.03	0.40
1:JS:73:ASN:ND2	1:JS:354:ARG:HH12	2.19	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	A1	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	A3	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	A4	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	A6	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	A7	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	A8	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	AD	352/408 (86%)	310 (88%)	40 (11%)	2 (1%)	21	54
1	AE	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	AG	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	AJ	352/408 (86%)	309 (88%)	41 (12%)	2 (1%)	21	54
1	AK	352/408 (86%)	310 (88%)	40 (11%)	2 (1%)	21	54
1	AL	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	AP	352/408 (86%)	310 (88%)	40 (11%)	2 (1%)	21	54
1	AQ	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	AR	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	AS	391/408 (96%)	352 (90%)	39 (10%)	0	100	100
1	B1	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	B3	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	B4	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	B6	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	B7	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	B8	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	BD	391/408 (96%)	352 (90%)	39 (10%)	0	100	100
1	BE	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	BG	383/408 (94%)	350 (91%)	33 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BJ	391/408 (96%)	352 (90%)	39 (10%)	0	100	100
1	BK	391/408 (96%)	352 (90%)	39 (10%)	0	100	100
1	BL	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	BP	391/408 (96%)	352 (90%)	39 (10%)	0	100	100
1	BQ	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	BR	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	BS	384/408 (94%)	345 (90%)	39 (10%)	0	100	100
1	C1	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	C3	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	C4	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	C6	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	C7	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	C8	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	CD	384/408 (94%)	345 (90%)	39 (10%)	0	100	100
1	CE	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	CG	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	CJ	384/408 (94%)	344 (90%)	40 (10%)	0	100	100
1	CK	384/408 (94%)	345 (90%)	39 (10%)	0	100	100
1	CL	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	CP	384/408 (94%)	344 (90%)	40 (10%)	0	100	100
1	CQ	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	CR	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	CS	384/408 (94%)	344 (90%)	39 (10%)	1 (0%)	36	67
1	D1	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	D3	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	D4	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	D6	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	D7	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	D8	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	DD	384/408 (94%)	345 (90%)	38 (10%)	1 (0%)	36	67
1	DE	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	DG	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	DJ	384/408 (94%)	344 (90%)	39 (10%)	1 (0%)	36	67
1	DK	384/408 (94%)	344 (90%)	39 (10%)	1 (0%)	36	67
1	DL	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	DP	384/408 (94%)	344 (90%)	39 (10%)	1 (0%)	36	67
1	DQ	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	DR	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	FE	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	I1	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	I3	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	I4	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	I6	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	I7	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	I8	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	IG	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	IL	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	IQ	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	IR	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	IS	352/408 (86%)	309 (88%)	41 (12%)	2 (1%)	21	54
1	J1	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	J3	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	J4	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	J6	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	J7	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	J8	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	JG	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	JL	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	JQ	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	JR	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	JS	378/408 (93%)	338 (89%)	40 (11%)	0	100	100
1	K1	383/408 (94%)	350 (91%)	33 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	K3	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	K4	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	K6	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	K7	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	K8	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	KD	378/408 (93%)	337 (89%)	41 (11%)	0	100	100
1	KE	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	KG	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	KJ	378/408 (93%)	337 (89%)	41 (11%)	0	100	100
1	KK	378/408 (93%)	337 (89%)	41 (11%)	0	100	100
1	KL	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	KP	378/408 (93%)	337 (89%)	41 (11%)	0	100	100
1	KQ	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	KR	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	KS	384/408 (94%)	347 (90%)	36 (9%)	1 (0%)	36	67
1	L1	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	L3	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	L4	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	L6	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	L7	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	L8	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	LD	384/408 (94%)	347 (90%)	36 (9%)	1 (0%)	36	67
1	LE	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	LG	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	LJ	384/408 (94%)	347 (90%)	36 (9%)	1 (0%)	36	67
1	LK	384/408 (94%)	348 (91%)	35 (9%)	1 (0%)	36	67
1	LL	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	LP	384/408 (94%)	348 (91%)	35 (9%)	1 (0%)	36	67
1	LQ	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	LR	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	ME	383/408 (94%)	350 (91%)	33 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	NE	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	Q1	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	Q3	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	Q4	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	Q6	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	Q7	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	Q8	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	QG	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	QL	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	QQ	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	QR	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	R1	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	R3	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	R4	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	R6	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	R7	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	R8	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	RG	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	RL	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	RQ	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	RR	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	S1	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	S3	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	S4	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	S6	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	S7	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	S8	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	SE	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	SG	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	SL	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	SQ	383/408 (94%)	350 (91%)	33 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	SR	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	T1	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	T3	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	T4	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	T6	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	T7	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	T8	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	TE	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	TG	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	TL	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	TQ	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	TR	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	UE	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	VE	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	X1	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	X4	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	Y1	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	Y3	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	Y4	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	Y6	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	Y7	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	Y8	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	YG	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	YL	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	YQ	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	YR	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	Z1	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	Z4	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	Z6	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	Z7	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	Z8	388/408 (95%)	360 (93%)	28 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	ZG	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	ZL	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	ZR	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	a1	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	a4	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	a6	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	a7	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	a8	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	aE	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	aG	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	aL	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	aR	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	b3	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	b6	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	b7	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	b8	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	bE	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	bG	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	bL	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	bQ	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	bR	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	cE	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	cQ	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	dE	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	dQ	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	eQ	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	f1	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	f4	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	g1	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	g4	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	g6	383/408 (94%)	357 (93%)	26 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	g7	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	g8	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	gG	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	gL	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	gR	383/408 (94%)	357 (93%)	26 (7%)	0	100	100
1	h1	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	h4	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	h6	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	h7	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	h8	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	hG	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	hR	388/408 (95%)	360 (93%)	28 (7%)	0	100	100
1	i1	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	i4	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	i6	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	i7	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	i8	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	iG	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	iR	383/408 (94%)	350 (91%)	33 (9%)	0	100	100
1	j6	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	j7	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	j8	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	jG	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
1	jR	391/408 (96%)	368 (94%)	22 (6%)	1 (0%)	36	67
2	DS	53/60 (88%)	42 (79%)	11 (21%)	0	100	100
2	E1	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	E3	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	E4	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	E6	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	E7	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	E8	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	ED	53/60 (88%)	42 (79%)	11 (21%)	0	100	100
2	EE	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	EG	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	EJ	53/60 (88%)	42 (79%)	11 (21%)	0	100	100
2	EK	53/60 (88%)	42 (79%)	11 (21%)	0	100	100
2	EL	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	EP	53/60 (88%)	42 (79%)	11 (21%)	0	100	100
2	EQ	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	ER	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	ES	53/60 (88%)	40 (76%)	12 (23%)	1 (2%)	6	32
2	F1	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	F3	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	F4	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	F6	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	F7	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	F8	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	FD	53/60 (88%)	40 (76%)	12 (23%)	1 (2%)	6	32
2	FG	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	FJ	53/60 (88%)	39 (74%)	13 (24%)	1 (2%)	6	32
2	FK	53/60 (88%)	40 (76%)	12 (23%)	1 (2%)	6	32
2	FL	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	FP	53/60 (88%)	40 (76%)	12 (23%)	1 (2%)	6	32
2	FQ	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	FR	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	FS	28/60 (47%)	18 (64%)	10 (36%)	0	100	100
2	G1	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	G3	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	G4	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	G6	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	G7	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	G8	25/60 (42%)	20 (80%)	5 (20%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	GD	28/60 (47%)	18 (64%)	10 (36%)	0	100	100
2	GE	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	GG	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	GJ	28/60 (47%)	18 (64%)	10 (36%)	0	100	100
2	GK	28/60 (47%)	18 (64%)	10 (36%)	0	100	100
2	GL	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	GP	28/60 (47%)	18 (64%)	10 (36%)	0	100	100
2	GQ	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	GR	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	GS	52/60 (87%)	38 (73%)	14 (27%)	0	100	100
2	H1	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	H3	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	H4	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	H6	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	H7	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	H8	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	HD	52/60 (87%)	38 (73%)	14 (27%)	0	100	100
2	HE	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	HG	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	HJ	52/60 (87%)	38 (73%)	14 (27%)	0	100	100
2	HK	52/60 (87%)	38 (73%)	14 (27%)	0	100	100
2	HL	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	HP	52/60 (87%)	38 (73%)	14 (27%)	0	100	100
2	HQ	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	HR	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	IE	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	JE	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	LS	53/60 (88%)	40 (76%)	13 (24%)	0	100	100
2	M1	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	M3	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	M4	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	M6	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	M7	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	M8	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	MD	53/60 (88%)	40 (76%)	13 (24%)	0	100 100
2	MG	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	MJ	53/60 (88%)	40 (76%)	13 (24%)	0	100 100
2	MK	53/60 (88%)	40 (76%)	13 (24%)	0	100 100
2	ML	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	MP	53/60 (88%)	40 (76%)	13 (24%)	0	100 100
2	MQ	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	MR	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	MS	53/60 (88%)	41 (77%)	10 (19%)	2 (4%)	2 21
2	N1	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	N3	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	N4	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	N6	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	N7	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	N8	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	ND	53/60 (88%)	40 (76%)	11 (21%)	2 (4%)	2 21
2	NG	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	NJ	53/60 (88%)	41 (77%)	10 (19%)	2 (4%)	2 21
2	NK	53/60 (88%)	41 (77%)	10 (19%)	2 (4%)	2 21
2	NL	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	NP	53/60 (88%)	41 (77%)	10 (19%)	2 (4%)	2 21
2	NQ	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	NR	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	O1	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	O3	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	O4	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	O6	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	O7	25/60 (42%)	20 (80%)	5 (20%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	O8	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	OE	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	OG	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	OL	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	OQ	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	OR	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	P1	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	P3	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	P4	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	P6	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	P7	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	P8	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	PE	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	PG	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	PL	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	PQ	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	PR	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	QE	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	RE	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	U1	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	U3	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	U4	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	U6	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	U7	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	U8	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	UG	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	UL	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	UQ	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	UR	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	V1	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	V3	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	V4	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	V6	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	V7	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	V8	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	VG	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	VL	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	VQ	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	VR	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	W1	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	W3	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	W4	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	W6	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	W7	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	W8	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	WE	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	WG	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	WL	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	WQ	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	WR	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	X3	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	X6	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	X7	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	X8	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	XE	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	XG	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	XL	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	XQ	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	XR	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	YE	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	Z3	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	ZE	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	ZQ	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	a3	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	aQ	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	b1	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	b4	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	c1	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	c3	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	c4	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	c6	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	c7	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	c8	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	cG	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	cL	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	cR	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	d1	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	d3	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	d4	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	d6	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	d7	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	d8	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	dG	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	dL	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	dR	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1 15
2	e1	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6 32
2	e4	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6 32
2	e6	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	e7	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	e8	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	eE	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6 32
2	eG	25/60 (42%)	20 (80%)	5 (20%)	0	100 100
2	eL	25/60 (42%)	20 (80%)	5 (20%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	eR	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	f6	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	f7	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	f8	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	fE	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	fG	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	fL	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	fQ	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	fR	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	gE	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	gQ	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	hE	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	hL	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	hQ	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	iL	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	iQ	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	j1	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	j4	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	k1	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	k4	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	k6	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	k7	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	k8	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	kG	52/60 (87%)	40 (77%)	11 (21%)	1 (2%)	6	32
2	kR	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	l1	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	l4	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	l6	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	l7	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	l8	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15
2	lG	53/60 (88%)	35 (66%)	15 (28%)	3 (6%)	1	15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	lR	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	m1	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	m6	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	m7	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	m8	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	mG	25/60 (42%)	20 (80%)	5 (20%)	0	100	100
2	mR	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	n6	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	n7	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	n8	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
2	nG	53/60 (88%)	37 (70%)	15 (28%)	1 (2%)	6	32
3	A2	295/327 (90%)	244 (83%)	51 (17%)	0	100	100
3	A5	295/327 (90%)	244 (83%)	51 (17%)	0	100	100
3	A9	295/327 (90%)	244 (83%)	51 (17%)	0	100	100
3	AA	295/327 (90%)	244 (83%)	51 (17%)	0	100	100
3	AB	295/327 (90%)	245 (83%)	50 (17%)	0	100	100
3	AC	295/327 (90%)	245 (83%)	49 (17%)	1 (0%)	36	67
3	AF	295/327 (90%)	244 (83%)	51 (17%)	0	100	100
3	AH	295/327 (90%)	244 (83%)	51 (17%)	0	100	100
3	AI	295/327 (90%)	245 (83%)	50 (17%)	0	100	100
3	AM	295/327 (90%)	245 (83%)	49 (17%)	1 (0%)	36	67
3	AN	295/327 (90%)	244 (83%)	51 (17%)	0	100	100
3	AO	295/327 (90%)	244 (83%)	51 (17%)	0	100	100
4	B2	216/251 (86%)	180 (83%)	36 (17%)	0	100	100
4	B5	216/251 (86%)	179 (83%)	37 (17%)	0	100	100
4	B9	216/251 (86%)	180 (83%)	36 (17%)	0	100	100
4	BA	216/251 (86%)	180 (83%)	36 (17%)	0	100	100
4	BB	216/251 (86%)	180 (83%)	36 (17%)	0	100	100
4	BC	216/251 (86%)	180 (83%)	36 (17%)	0	100	100
4	BF	216/251 (86%)	179 (83%)	37 (17%)	0	100	100
4	BH	216/251 (86%)	179 (83%)	37 (17%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	BI	216/251 (86%)	179 (83%)	37 (17%)	0	100	100
4	BM	216/251 (86%)	180 (83%)	36 (17%)	0	100	100
4	BN	216/251 (86%)	180 (83%)	36 (17%)	0	100	100
4	BO	216/251 (86%)	179 (83%)	37 (17%)	0	100	100
5	C2	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	C5	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	C9	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	CA	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	CB	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	CC	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	CF	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	CH	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	CI	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	CM	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	CN	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	CO	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	D2	130/647 (20%)	120 (92%)	9 (7%)	1 (1%)	16	48
5	D5	130/647 (20%)	119 (92%)	10 (8%)	1 (1%)	16	48
5	D9	130/647 (20%)	119 (92%)	10 (8%)	1 (1%)	16	48
5	DA	130/647 (20%)	120 (92%)	9 (7%)	1 (1%)	16	48
5	DB	130/647 (20%)	120 (92%)	9 (7%)	1 (1%)	16	48
5	DC	130/647 (20%)	120 (92%)	9 (7%)	1 (1%)	16	48
5	DF	130/647 (20%)	119 (92%)	10 (8%)	1 (1%)	16	48
5	DH	130/647 (20%)	119 (92%)	10 (8%)	1 (1%)	16	48
5	DI	130/647 (20%)	120 (92%)	9 (7%)	1 (1%)	16	48
5	DM	130/647 (20%)	120 (92%)	9 (7%)	1 (1%)	16	48
5	DN	130/647 (20%)	120 (92%)	9 (7%)	1 (1%)	16	48
5	DO	130/647 (20%)	120 (92%)	9 (7%)	1 (1%)	16	48
5	E2	134/647 (21%)	121 (90%)	12 (9%)	1 (1%)	18	51
5	E5	134/647 (21%)	121 (90%)	12 (9%)	1 (1%)	18	51
5	E9	134/647 (21%)	121 (90%)	12 (9%)	1 (1%)	18	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	EA	134/647 (21%)	121 (90%)	12 (9%)	1 (1%)	18	51
5	EB	134/647 (21%)	121 (90%)	12 (9%)	1 (1%)	18	51
5	EC	134/647 (21%)	121 (90%)	12 (9%)	1 (1%)	18	51
5	EF	134/647 (21%)	121 (90%)	12 (9%)	1 (1%)	18	51
5	EH	134/647 (21%)	120 (90%)	13 (10%)	1 (1%)	18	51
5	EI	134/647 (21%)	120 (90%)	13 (10%)	1 (1%)	18	51
5	EM	134/647 (21%)	120 (90%)	13 (10%)	1 (1%)	18	51
5	EN	134/647 (21%)	120 (90%)	13 (10%)	1 (1%)	18	51
5	EO	134/647 (21%)	120 (90%)	13 (10%)	1 (1%)	18	51
5	F2	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	F5	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	F9	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	FA	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	FB	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	FC	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	FF	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	FH	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	FI	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	FM	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	FN	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	FO	108/647 (17%)	98 (91%)	10 (9%)	0	100	100
5	N2	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	N5	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	N9	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	NA	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	NB	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	NC	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	NF	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	NH	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	NI	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	NM	497/647 (77%)	483 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	NN	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	NO	497/647 (77%)	483 (97%)	14 (3%)	0	100	100
5	O2	496/647 (77%)	482 (97%)	14 (3%)	0	100	100
5	O5	496/647 (77%)	482 (97%)	14 (3%)	0	100	100
5	O9	496/647 (77%)	482 (97%)	14 (3%)	0	100	100
5	OA	496/647 (77%)	482 (97%)	14 (3%)	0	100	100
5	OB	496/647 (77%)	482 (97%)	14 (3%)	0	100	100
5	OC	496/647 (77%)	482 (97%)	14 (3%)	0	100	100
5	OF	496/647 (77%)	482 (97%)	14 (3%)	0	100	100
5	OH	496/647 (77%)	482 (97%)	14 (3%)	0	100	100
5	OI	496/647 (77%)	481 (97%)	15 (3%)	0	100	100
5	OM	496/647 (77%)	482 (97%)	14 (3%)	0	100	100
5	ON	496/647 (77%)	482 (97%)	14 (3%)	0	100	100
5	OO	496/647 (77%)	482 (97%)	14 (3%)	0	100	100
6	G2	16/133 (12%)	16 (100%)	0	0	100	100
6	G5	16/133 (12%)	16 (100%)	0	0	100	100
6	G9	16/133 (12%)	16 (100%)	0	0	100	100
6	GA	16/133 (12%)	16 (100%)	0	0	100	100
6	GB	16/133 (12%)	16 (100%)	0	0	100	100
6	GC	16/133 (12%)	16 (100%)	0	0	100	100
6	GF	16/133 (12%)	16 (100%)	0	0	100	100
6	GH	16/133 (12%)	16 (100%)	0	0	100	100
6	GI	16/133 (12%)	16 (100%)	0	0	100	100
6	GM	16/133 (12%)	16 (100%)	0	0	100	100
6	GN	16/133 (12%)	16 (100%)	0	0	100	100
6	GO	16/133 (12%)	16 (100%)	0	0	100	100
6	H2	16/133 (12%)	16 (100%)	0	0	100	100
6	H5	16/133 (12%)	16 (100%)	0	0	100	100
6	H9	16/133 (12%)	16 (100%)	0	0	100	100
6	HA	16/133 (12%)	16 (100%)	0	0	100	100
6	HB	16/133 (12%)	16 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	HC	16/133 (12%)	16 (100%)	0	0	100	100
6	HF	16/133 (12%)	16 (100%)	0	0	100	100
6	HH	16/133 (12%)	16 (100%)	0	0	100	100
6	HI	16/133 (12%)	16 (100%)	0	0	100	100
6	HM	16/133 (12%)	16 (100%)	0	0	100	100
6	HN	16/133 (12%)	16 (100%)	0	0	100	100
6	HO	16/133 (12%)	16 (100%)	0	0	100	100
6	I2	22/133 (16%)	22 (100%)	0	0	100	100
6	I5	22/133 (16%)	22 (100%)	0	0	100	100
6	I9	22/133 (16%)	22 (100%)	0	0	100	100
6	IA	22/133 (16%)	22 (100%)	0	0	100	100
6	IB	22/133 (16%)	22 (100%)	0	0	100	100
6	IC	22/133 (16%)	22 (100%)	0	0	100	100
6	IF	22/133 (16%)	22 (100%)	0	0	100	100
6	IH	22/133 (16%)	22 (100%)	0	0	100	100
6	II	22/133 (16%)	22 (100%)	0	0	100	100
6	IM	22/133 (16%)	22 (100%)	0	0	100	100
6	IN	22/133 (16%)	22 (100%)	0	0	100	100
6	IO	22/133 (16%)	22 (100%)	0	0	100	100
6	J2	22/133 (16%)	21 (96%)	1 (4%)	0	100	100
6	J5	22/133 (16%)	21 (96%)	1 (4%)	0	100	100
6	J9	22/133 (16%)	21 (96%)	1 (4%)	0	100	100
6	JA	22/133 (16%)	21 (96%)	1 (4%)	0	100	100
6	JB	22/133 (16%)	21 (96%)	1 (4%)	0	100	100
6	JC	22/133 (16%)	21 (96%)	1 (4%)	0	100	100
6	JF	22/133 (16%)	21 (96%)	1 (4%)	0	100	100
6	JH	22/133 (16%)	21 (96%)	1 (4%)	0	100	100
6	JI	22/133 (16%)	21 (96%)	1 (4%)	0	100	100
6	JM	22/133 (16%)	21 (96%)	1 (4%)	0	100	100
6	JN	22/133 (16%)	21 (96%)	1 (4%)	0	100	100
6	JO	22/133 (16%)	21 (96%)	1 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	K2	20/133 (15%)	20 (100%)	0	0	100	100
6	K5	20/133 (15%)	20 (100%)	0	0	100	100
6	K9	20/133 (15%)	20 (100%)	0	0	100	100
6	KA	20/133 (15%)	20 (100%)	0	0	100	100
6	KB	20/133 (15%)	20 (100%)	0	0	100	100
6	KC	20/133 (15%)	20 (100%)	0	0	100	100
6	KF	20/133 (15%)	20 (100%)	0	0	100	100
6	KH	20/133 (15%)	20 (100%)	0	0	100	100
6	KI	20/133 (15%)	20 (100%)	0	0	100	100
6	KM	20/133 (15%)	20 (100%)	0	0	100	100
6	KN	20/133 (15%)	20 (100%)	0	0	100	100
6	KO	20/133 (15%)	20 (100%)	0	0	100	100
6	L2	22/133 (16%)	22 (100%)	0	0	100	100
6	L5	22/133 (16%)	22 (100%)	0	0	100	100
6	L9	22/133 (16%)	22 (100%)	0	0	100	100
6	LA	22/133 (16%)	22 (100%)	0	0	100	100
6	LB	22/133 (16%)	22 (100%)	0	0	100	100
6	LC	22/133 (16%)	22 (100%)	0	0	100	100
6	LF	22/133 (16%)	22 (100%)	0	0	100	100
6	LH	22/133 (16%)	22 (100%)	0	0	100	100
6	LI	22/133 (16%)	22 (100%)	0	0	100	100
6	LM	22/133 (16%)	22 (100%)	0	0	100	100
6	LN	22/133 (16%)	22 (100%)	0	0	100	100
6	LO	22/133 (16%)	22 (100%)	0	0	100	100
7	HS	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	ID	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	IJ	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	IK	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	IP	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	NS	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	OD	53/55 (96%)	46 (87%)	7 (13%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	OJ	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	OK	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	OP	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	SD	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	SJ	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	SK	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	SP	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
7	SS	53/55 (96%)	46 (87%)	7 (13%)	0	100	100
8	PD	15/17 (88%)	14 (93%)	1 (7%)	0	100	100
8	PJ	15/17 (88%)	14 (93%)	1 (7%)	0	100	100
8	PK	15/17 (88%)	14 (93%)	1 (7%)	0	100	100
8	PP	15/17 (88%)	14 (93%)	1 (7%)	0	100	100
8	PS	15/17 (88%)	14 (93%)	1 (7%)	0	100	100
8	QD	14/17 (82%)	14 (100%)	0	0	100	100
8	QJ	14/17 (82%)	14 (100%)	0	0	100	100
8	QK	14/17 (82%)	14 (100%)	0	0	100	100
8	QP	14/17 (82%)	14 (100%)	0	0	100	100
8	QS	14/17 (82%)	14 (100%)	0	0	100	100
8	RD	10/17 (59%)	9 (90%)	1 (10%)	0	100	100
8	RJ	10/17 (59%)	9 (90%)	1 (10%)	0	100	100
8	RK	10/17 (59%)	9 (90%)	1 (10%)	0	100	100
8	RP	10/17 (59%)	9 (90%)	1 (10%)	0	100	100
8	RS	10/17 (59%)	9 (90%)	1 (10%)	0	100	100
All	All	132187/174156 (76%)	120358 (91%)	11463 (9%)	366 (0%)	37	67

All (366) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	F1	44	GLN
2	N1	44	GLN
2	U1	44	GLN
2	c1	44	GLN
2	k1	44	GLN
2	F3	44	GLN

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Mol	Chain	Res	Type
2	N3	44	GLN
2	V3	44	GLN
2	F4	44	GLN
2	N4	44	GLN
2	U4	44	GLN
2	c4	44	GLN
2	j4	44	GLN
2	F6	44	GLN
2	N6	44	GLN
2	V6	44	GLN
2	d6	44	GLN
2	l6	44	GLN
2	F7	44	GLN
2	N7	44	GLN
2	V7	44	GLN
2	d7	44	GLN
2	l7	44	GLN
2	F8	44	GLN
2	N8	44	GLN
2	V8	44	GLN
2	d8	44	GLN
2	l8	44	GLN
1	AD	46	PHE
2	HE	44	GLN
2	PE	44	GLN
2	XE	44	GLN
2	fE	44	GLN
2	FG	44	GLN
2	NG	44	GLN
2	VG	44	GLN
2	dG	44	GLN
2	lG	44	GLN
1	AJ	46	PHE
1	AK	46	PHE
2	FL	44	GLN
2	NL	44	GLN
2	VL	44	GLN
2	dL	44	GLN
1	AP	46	PHE
2	FQ	44	GLN
2	NQ	44	GLN
2	VQ	44	GLN

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Mol	Chain	Res	Type
2	gQ	44	GLN
2	FR	44	GLN
2	NR	44	GLN
2	VR	44	GLN
2	dR	44	GLN
2	kR	44	GLN
1	IS	46	PHE
2	H1	45	ILE
2	P1	45	ILE
2	W1	45	ILE
2	e1	45	ILE
2	m1	45	ILE
2	H3	45	ILE
2	P3	45	ILE
2	X3	45	ILE
2	H4	45	ILE
2	P4	45	ILE
2	W4	45	ILE
2	e4	45	ILE
2	l4	45	ILE
2	H6	45	ILE
2	P6	45	ILE
2	X6	45	ILE
2	f6	45	ILE
2	n6	45	ILE
2	H7	45	ILE
2	P7	45	ILE
2	X7	45	ILE
2	f7	45	ILE
2	n7	45	ILE
2	H8	45	ILE
2	P8	45	ILE
2	X8	45	ILE
2	f8	45	ILE
2	n8	45	ILE
2	FD	45	ILE
2	ND	45	ILE
2	JE	45	ILE
2	RE	45	ILE
2	ZE	45	ILE
2	hE	45	ILE
2	HG	45	ILE

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Mol	Chain	Res	Type
2	PG	45	ILE
2	XG	45	ILE
2	fG	45	ILE
2	nG	45	ILE
2	FJ	45	ILE
2	NJ	45	ILE
2	FK	45	ILE
2	NK	45	ILE
2	HL	45	ILE
2	PL	45	ILE
2	XL	45	ILE
2	fL	45	ILE
2	FP	45	ILE
2	NP	45	ILE
2	HQ	45	ILE
2	PQ	45	ILE
2	XQ	45	ILE
2	iQ	45	ILE
2	HR	45	ILE
2	PR	45	ILE
2	XR	45	ILE
2	fR	45	ILE
2	mR	45	ILE
2	ES	45	ILE
2	MS	45	ILE
2	E1	44	GLN
2	M1	44	GLN
2	b1	44	GLN
2	j1	44	GLN
5	D2	39	ASN
5	E2	108	GLU
2	E3	44	GLN
2	M3	44	GLN
2	U3	44	GLN
2	Z3	44	GLN
2	c3	44	GLN
2	E4	44	GLN
2	M4	44	GLN
2	b4	44	GLN
5	D5	39	ASN
5	E5	108	GLU
2	E6	44	GLN

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Mol	Chain	Res	Type
2	M6	44	GLN
2	U6	44	GLN
2	c6	44	GLN
2	k6	44	GLN
2	E7	44	GLN
2	M7	44	GLN
2	U7	44	GLN
2	c7	44	GLN
2	k7	44	GLN
2	E8	44	GLN
2	M8	44	GLN
2	U8	44	GLN
2	c8	44	GLN
2	k8	44	GLN
5	D9	39	ASN
5	E9	108	GLU
5	DA	39	ASN
5	EA	108	GLU
5	DB	39	ASN
5	EB	108	GLU
5	DC	39	ASN
5	EC	108	GLU
1	DD	181	ASN
2	EE	44	GLN
2	OE	44	GLN
2	WE	44	GLN
2	eE	44	GLN
5	DF	39	ASN
5	EF	108	GLU
2	EG	44	GLN
2	MG	44	GLN
2	UG	44	GLN
2	cG	44	GLN
2	kG	44	GLN
5	DH	39	ASN
5	EH	108	GLU
5	DI	39	ASN
5	EI	108	GLU
1	DJ	181	ASN
1	DK	181	ASN
2	EL	44	GLN
2	ML	44	GLN

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Mol	Chain	Res	Type
2	UL	44	GLN
2	cL	44	GLN
2	hL	44	GLN
5	DM	39	ASN
5	EM	108	GLU
5	DN	39	ASN
5	EN	108	GLU
5	DO	39	ASN
5	EO	108	GLU
1	DP	181	ASN
2	EQ	44	GLN
2	MQ	44	GLN
2	UQ	44	GLN
2	ZQ	44	GLN
2	fQ	44	GLN
2	ER	44	GLN
2	MR	44	GLN
2	UR	44	GLN
2	cR	44	GLN
1	CS	181	ASN
1	D1	339	ASP
2	F1	46	HIS
1	L1	339	ASP
2	N1	46	HIS
1	T1	339	ASP
2	U1	46	HIS
1	a1	339	ASP
2	c1	46	HIS
1	i1	339	ASP
2	k1	46	HIS
1	D3	339	ASP
2	F3	46	HIS
1	L3	339	ASP
2	N3	46	HIS
1	T3	339	ASP
2	V3	46	HIS
1	Y3	339	ASP
1	b3	339	ASP
1	D4	339	ASP
2	F4	46	HIS
1	L4	339	ASP
2	N4	46	HIS

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Mol	Chain	Res	Type
1	T4	339	ASP
2	U4	46	HIS
1	a4	339	ASP
2	c4	46	HIS
1	i4	339	ASP
2	j4	46	HIS
1	D6	339	ASP
2	F6	46	HIS
1	L6	339	ASP
2	N6	46	HIS
1	T6	339	ASP
2	V6	46	HIS
1	b6	339	ASP
2	d6	46	HIS
1	j6	339	ASP
2	l6	46	HIS
1	D7	339	ASP
2	F7	46	HIS
1	L7	339	ASP
2	N7	46	HIS
1	T7	339	ASP
2	V7	46	HIS
1	b7	339	ASP
2	d7	46	HIS
1	j7	339	ASP
2	l7	46	HIS
1	D8	339	ASP
2	F8	46	HIS
1	L8	339	ASP
2	N8	46	HIS
1	T8	339	ASP
2	V8	46	HIS
1	b8	339	ASP
2	d8	46	HIS
1	j8	339	ASP
2	l8	46	HIS
1	AD	59	ASN
2	ND	13	THR
1	DE	339	ASP
1	FE	339	ASP
2	HE	46	HIS
1	NE	339	ASP

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Mol	Chain	Res	Type
2	PE	46	HIS
1	VE	339	ASP
2	XE	46	HIS
1	dE	339	ASP
2	fE	46	HIS
1	DG	339	ASP
2	FG	46	HIS
1	LG	339	ASP
2	NG	46	HIS
1	TG	339	ASP
2	VG	46	HIS
1	bG	339	ASP
2	dG	46	HIS
1	jG	339	ASP
2	lG	46	HIS
1	AJ	59	ASN
2	NJ	13	THR
1	AK	59	ASN
2	NK	13	THR
1	DL	339	ASP
2	FL	46	HIS
1	LL	339	ASP
2	NL	46	HIS
1	TL	339	ASP
2	VL	46	HIS
1	bL	339	ASP
2	dL	46	HIS
1	gL	339	ASP
1	AP	59	ASN
2	NP	13	THR
1	DQ	339	ASP
2	FQ	46	HIS
1	LQ	339	ASP
2	NQ	46	HIS
1	TQ	339	ASP
2	VQ	46	HIS
1	YQ	339	ASP
1	eQ	339	ASP
2	gQ	46	HIS
1	DR	339	ASP
2	FR	46	HIS
1	LR	339	ASP

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Mol	Chain	Res	Type
2	NR	46	HIS
1	TR	339	ASP
2	VR	46	HIS
1	bR	339	ASP
2	dR	46	HIS
1	jR	339	ASP
2	kR	46	HIS
1	IS	59	ASN
2	MS	13	THR
3	AC	45	TYR
1	LD	235	LEU
1	LJ	235	LEU
1	LK	235	LEU
3	AM	45	TYR
1	LP	235	LEU
1	KS	235	LEU
2	F1	45	ILE
2	N1	45	ILE
2	U1	45	ILE
2	c1	45	ILE
2	k1	45	ILE
2	F3	45	ILE
2	N3	45	ILE
2	V3	45	ILE
2	F4	45	ILE
2	N4	45	ILE
2	U4	45	ILE
2	c4	45	ILE
2	j4	45	ILE
2	F6	45	ILE
2	N6	45	ILE
2	V6	45	ILE
2	d6	45	ILE
2	l6	45	ILE
2	F7	45	ILE
2	N7	45	ILE
2	V7	45	ILE
2	d7	45	ILE
2	l7	45	ILE
2	F8	45	ILE
2	N8	45	ILE
2	V8	45	ILE

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Mol	Chain	Res	Type
2	d8	45	ILE
2	l8	45	ILE
2	HE	45	ILE
2	PE	45	ILE
2	XE	45	ILE
2	fE	45	ILE
2	FG	45	ILE
2	NG	45	ILE
2	VG	45	ILE
2	dG	45	ILE
2	lG	45	ILE
2	FL	45	ILE
2	NL	45	ILE
2	VL	45	ILE
2	dL	45	ILE
2	FQ	45	ILE
2	NQ	45	ILE
2	VQ	45	ILE
2	gQ	45	ILE
2	FR	45	ILE
2	NR	45	ILE
2	VR	45	ILE
2	dR	45	ILE
2	kR	45	ILE

5.3.2 Protein sidechains (i)

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	A1	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	A3	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	A4	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	A6	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	A7	351/367 (96%)	346 (99%)	5 (1%)	59	70

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A8	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	AD	304/367 (83%)	297 (98%)	7 (2%)	44	63
1	AE	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	AG	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	AJ	304/367 (83%)	297 (98%)	7 (2%)	44	63
1	AK	304/367 (83%)	297 (98%)	7 (2%)	44	63
1	AL	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	AP	304/367 (83%)	297 (98%)	7 (2%)	44	63
1	AQ	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	AR	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	AS	353/367 (96%)	348 (99%)	5 (1%)	59	70
1	B1	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	B3	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	B4	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	B6	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	B7	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	B8	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	BD	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	BE	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	BG	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	BJ	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	BK	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	BL	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	BP	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	BQ	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	BR	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	BS	346/367 (94%)	342 (99%)	4 (1%)	63	72
1	C1	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	C3	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	C4	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	C6	344/367 (94%)	340 (99%)	4 (1%)	63	72

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C7	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	C8	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	CD	346/367 (94%)	342 (99%)	4 (1%)	63	72
1	CE	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	CG	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	CJ	346/367 (94%)	342 (99%)	4 (1%)	63	72
1	CK	346/367 (94%)	342 (99%)	4 (1%)	63	72
1	CL	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	CP	346/367 (94%)	342 (99%)	4 (1%)	63	72
1	CQ	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	CR	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	CS	345/367 (94%)	336 (97%)	9 (3%)	40	60
1	D1	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	D3	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	D4	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	D6	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	D7	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	D8	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	DD	345/367 (94%)	336 (97%)	9 (3%)	40	60
1	DE	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	DG	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	DJ	345/367 (94%)	336 (97%)	9 (3%)	40	60
1	DK	345/367 (94%)	336 (97%)	9 (3%)	40	60
1	DL	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	DP	345/367 (94%)	336 (97%)	9 (3%)	40	60
1	DQ	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	DR	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	FE	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	I1	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	I3	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	I4	344/367 (94%)	340 (99%)	4 (1%)	63	72

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	I6	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	I7	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	I8	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	IG	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	IL	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	IQ	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	IR	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	IS	304/367 (83%)	297 (98%)	7 (2%)	44	63
1	J1	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	J3	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	J4	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	J6	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	J7	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	J8	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	JG	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	JL	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	JQ	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	JR	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	JS	343/367 (94%)	339 (99%)	4 (1%)	63	72
1	K1	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	K3	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	K4	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	K6	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	K7	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	K8	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	KD	343/367 (94%)	340 (99%)	3 (1%)	70	74
1	KE	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	KG	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	KJ	343/367 (94%)	340 (99%)	3 (1%)	70	74
1	KK	343/367 (94%)	340 (99%)	3 (1%)	70	74
1	KL	344/367 (94%)	341 (99%)	3 (1%)	70	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	KP	343/367 (94%)	339 (99%)	4 (1%)	63	72
1	KQ	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	KR	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	KS	346/367 (94%)	340 (98%)	6 (2%)	53	67
1	L1	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	L3	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	L4	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	L6	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	L7	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	L8	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	LD	346/367 (94%)	340 (98%)	6 (2%)	53	67
1	LE	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	LG	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	LJ	346/367 (94%)	340 (98%)	6 (2%)	53	67
1	LK	346/367 (94%)	340 (98%)	6 (2%)	53	67
1	LL	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	LP	346/367 (94%)	340 (98%)	6 (2%)	53	67
1	LQ	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	LR	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	ME	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	NE	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	Q1	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	Q3	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	Q4	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	Q6	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	Q7	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	Q8	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	QG	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	QL	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	QQ	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	QR	344/367 (94%)	340 (99%)	4 (1%)	63	72

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	R1	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	R3	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	R4	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	R6	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	R7	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	R8	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	RG	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	RL	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	RQ	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	RR	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	S1	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	S3	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	S4	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	S6	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	S7	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	S8	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	SE	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	SG	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	SL	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	SQ	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	SR	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	T1	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	T3	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	T4	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	T6	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	T7	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	T8	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	TE	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	TG	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	TL	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	TQ	353/367 (96%)	349 (99%)	4 (1%)	65	73

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	TR	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	UE	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	VE	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	X1	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	X4	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	Y1	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	Y3	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	Y4	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	Y6	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	Y7	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	Y8	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	YG	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	YL	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	YQ	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	YR	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	Z1	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	Z4	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	Z6	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	Z7	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	Z8	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	ZG	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	ZL	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	ZR	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	a1	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	a4	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	a6	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	a7	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	a8	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	aE	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	aG	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	aL	344/367 (94%)	341 (99%)	3 (1%)	70	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	aR	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	b3	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	b6	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	b7	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	b8	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	bE	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	bG	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	bL	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	bQ	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	bR	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	cE	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	cQ	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	dE	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	dQ	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	eQ	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	f1	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	f4	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	g1	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	g4	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	g6	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	g7	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	g8	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	gG	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	gL	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	gR	344/367 (94%)	340 (99%)	4 (1%)	63	72
1	h1	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	h4	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	h6	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	h7	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	h8	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	hG	351/367 (96%)	346 (99%)	5 (1%)	59	70

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	hR	351/367 (96%)	346 (99%)	5 (1%)	59	70
1	i1	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	i4	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	i6	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	i7	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	i8	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	iG	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	iR	344/367 (94%)	341 (99%)	3 (1%)	70	74
1	j6	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	j7	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	j8	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	jG	353/367 (96%)	349 (99%)	4 (1%)	65	73
1	jR	353/367 (96%)	349 (99%)	4 (1%)	65	73
2	DS	51/56 (91%)	51 (100%)	0	100	100
2	E1	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	E3	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	E4	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	E6	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	E7	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	E8	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	ED	51/56 (91%)	51 (100%)	0	100	100
2	EE	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	EG	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	EJ	51/56 (91%)	51 (100%)	0	100	100
2	EK	51/56 (91%)	51 (100%)	0	100	100
2	EL	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	EP	51/56 (91%)	51 (100%)	0	100	100
2	EQ	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	ER	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	ES	51/56 (91%)	50 (98%)	1 (2%)	48	65
2	F1	50/56 (89%)	49 (98%)	1 (2%)	48	65

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	F3	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	F4	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	F6	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	F7	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	F8	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	FD	51/56 (91%)	50 (98%)	1 (2%)	48 65
2	FG	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	FJ	51/56 (91%)	50 (98%)	1 (2%)	48 65
2	FK	51/56 (91%)	50 (98%)	1 (2%)	48 65
2	FL	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	FP	51/56 (91%)	50 (98%)	1 (2%)	48 65
2	FQ	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	FR	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	FS	29/56 (52%)	28 (97%)	1 (3%)	32 55
2	G1	25/56 (45%)	25 (100%)	0	100 100
2	G3	25/56 (45%)	25 (100%)	0	100 100
2	G4	25/56 (45%)	25 (100%)	0	100 100
2	G6	25/56 (45%)	25 (100%)	0	100 100
2	G7	25/56 (45%)	25 (100%)	0	100 100
2	G8	25/56 (45%)	25 (100%)	0	100 100
2	GD	29/56 (52%)	28 (97%)	1 (3%)	32 55
2	GE	25/56 (45%)	25 (100%)	0	100 100
2	GG	25/56 (45%)	25 (100%)	0	100 100
2	GJ	29/56 (52%)	28 (97%)	1 (3%)	32 55
2	GK	29/56 (52%)	28 (97%)	1 (3%)	32 55
2	GL	25/56 (45%)	25 (100%)	0	100 100
2	GP	29/56 (52%)	28 (97%)	1 (3%)	32 55
2	GQ	25/56 (45%)	25 (100%)	0	100 100
2	GR	25/56 (45%)	25 (100%)	0	100 100
2	GS	51/56 (91%)	51 (100%)	0	100 100
2	H1	49/56 (88%)	49 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	H3	49/56 (88%)	49 (100%)	0	100	100
2	H4	49/56 (88%)	49 (100%)	0	100	100
2	H6	49/56 (88%)	49 (100%)	0	100	100
2	H7	49/56 (88%)	49 (100%)	0	100	100
2	H8	49/56 (88%)	49 (100%)	0	100	100
2	HD	51/56 (91%)	51 (100%)	0	100	100
2	HE	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	HG	49/56 (88%)	49 (100%)	0	100	100
2	HJ	51/56 (91%)	51 (100%)	0	100	100
2	HK	51/56 (91%)	51 (100%)	0	100	100
2	HL	49/56 (88%)	49 (100%)	0	100	100
2	HP	51/56 (91%)	51 (100%)	0	100	100
2	HQ	49/56 (88%)	49 (100%)	0	100	100
2	HR	49/56 (88%)	49 (100%)	0	100	100
2	IE	25/56 (45%)	25 (100%)	0	100	100
2	JE	49/56 (88%)	49 (100%)	0	100	100
2	LS	51/56 (91%)	51 (100%)	0	100	100
2	M1	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	M3	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	M4	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	M6	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	M7	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	M8	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	MD	51/56 (91%)	51 (100%)	0	100	100
2	MG	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	MJ	51/56 (91%)	51 (100%)	0	100	100
2	MK	51/56 (91%)	51 (100%)	0	100	100
2	ML	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	MP	51/56 (91%)	51 (100%)	0	100	100
2	MQ	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	MR	50/56 (89%)	47 (94%)	3 (6%)	17	43

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	MS	51/56 (91%)	50 (98%)	1 (2%)	48	65
2	N1	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	N3	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	N4	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	N6	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	N7	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	N8	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	ND	51/56 (91%)	50 (98%)	1 (2%)	48	65
2	NG	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	NJ	51/56 (91%)	50 (98%)	1 (2%)	48	65
2	NK	51/56 (91%)	50 (98%)	1 (2%)	48	65
2	NL	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	NP	51/56 (91%)	50 (98%)	1 (2%)	48	65
2	NQ	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	NR	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	O1	25/56 (45%)	25 (100%)	0	100	100
2	O3	25/56 (45%)	25 (100%)	0	100	100
2	O4	25/56 (45%)	25 (100%)	0	100	100
2	O6	25/56 (45%)	25 (100%)	0	100	100
2	O7	25/56 (45%)	25 (100%)	0	100	100
2	O8	25/56 (45%)	25 (100%)	0	100	100
2	OE	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	OG	25/56 (45%)	25 (100%)	0	100	100
2	OL	25/56 (45%)	25 (100%)	0	100	100
2	OQ	25/56 (45%)	25 (100%)	0	100	100
2	OR	25/56 (45%)	25 (100%)	0	100	100
2	P1	49/56 (88%)	49 (100%)	0	100	100
2	P3	49/56 (88%)	49 (100%)	0	100	100
2	P4	49/56 (88%)	49 (100%)	0	100	100
2	P6	49/56 (88%)	49 (100%)	0	100	100
2	P7	49/56 (88%)	49 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	P8	49/56 (88%)	49 (100%)	0	100	100
2	PE	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	PG	49/56 (88%)	49 (100%)	0	100	100
2	PL	49/56 (88%)	49 (100%)	0	100	100
2	PQ	49/56 (88%)	49 (100%)	0	100	100
2	PR	49/56 (88%)	49 (100%)	0	100	100
2	QE	25/56 (45%)	25 (100%)	0	100	100
2	RE	49/56 (88%)	49 (100%)	0	100	100
2	U1	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	U3	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	U4	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	U6	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	U7	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	U8	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	UG	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	UL	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	UQ	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	UR	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	V1	25/56 (45%)	25 (100%)	0	100	100
2	V3	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	V4	25/56 (45%)	25 (100%)	0	100	100
2	V6	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	V7	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	V8	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	VG	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	VL	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	VQ	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	VR	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	W1	49/56 (88%)	49 (100%)	0	100	100
2	W3	25/56 (45%)	25 (100%)	0	100	100
2	W4	49/56 (88%)	49 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	W6	25/56 (45%)	25 (100%)	0	100 100
2	W7	25/56 (45%)	25 (100%)	0	100 100
2	W8	25/56 (45%)	25 (100%)	0	100 100
2	WE	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	WG	25/56 (45%)	25 (100%)	0	100 100
2	WL	25/56 (45%)	25 (100%)	0	100 100
2	WQ	25/56 (45%)	25 (100%)	0	100 100
2	WR	25/56 (45%)	25 (100%)	0	100 100
2	X3	49/56 (88%)	49 (100%)	0	100 100
2	X6	49/56 (88%)	49 (100%)	0	100 100
2	X7	49/56 (88%)	49 (100%)	0	100 100
2	X8	49/56 (88%)	49 (100%)	0	100 100
2	XE	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	XG	49/56 (88%)	49 (100%)	0	100 100
2	XL	49/56 (88%)	49 (100%)	0	100 100
2	XQ	49/56 (88%)	49 (100%)	0	100 100
2	XR	49/56 (88%)	49 (100%)	0	100 100
2	YE	25/56 (45%)	25 (100%)	0	100 100
2	Z3	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	ZE	49/56 (88%)	49 (100%)	0	100 100
2	ZQ	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	a3	25/56 (45%)	25 (100%)	0	100 100
2	aQ	25/56 (45%)	25 (100%)	0	100 100
2	b1	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	b4	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	c1	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	c3	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	c4	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	c6	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	c7	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	c8	50/56 (89%)	47 (94%)	3 (6%)	17 43

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	cG	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	cL	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	cR	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	d1	25/56 (45%)	25 (100%)	0	100 100
2	d3	25/56 (45%)	25 (100%)	0	100 100
2	d4	25/56 (45%)	25 (100%)	0	100 100
2	d6	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	d7	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	d8	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	dG	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	dL	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	dR	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	e1	49/56 (88%)	49 (100%)	0	100 100
2	e4	49/56 (88%)	49 (100%)	0	100 100
2	e6	25/56 (45%)	25 (100%)	0	100 100
2	e7	25/56 (45%)	25 (100%)	0	100 100
2	e8	25/56 (45%)	25 (100%)	0	100 100
2	eE	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	eG	25/56 (45%)	25 (100%)	0	100 100
2	eL	25/56 (45%)	25 (100%)	0	100 100
2	eR	25/56 (45%)	25 (100%)	0	100 100
2	f6	49/56 (88%)	49 (100%)	0	100 100
2	f7	49/56 (88%)	49 (100%)	0	100 100
2	f8	49/56 (88%)	49 (100%)	0	100 100
2	fE	50/56 (89%)	49 (98%)	1 (2%)	48 65
2	fG	49/56 (88%)	49 (100%)	0	100 100
2	fL	49/56 (88%)	49 (100%)	0	100 100
2	fQ	50/56 (89%)	47 (94%)	3 (6%)	17 43
2	fR	49/56 (88%)	49 (100%)	0	100 100
2	gE	25/56 (45%)	25 (100%)	0	100 100
2	gQ	50/56 (89%)	49 (98%)	1 (2%)	48 65

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	hE	49/56 (88%)	49 (100%)	0	100	100
2	hL	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	hQ	25/56 (45%)	25 (100%)	0	100	100
2	iL	25/56 (45%)	25 (100%)	0	100	100
2	iQ	49/56 (88%)	49 (100%)	0	100	100
2	j1	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	j4	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	k1	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	k4	25/56 (45%)	25 (100%)	0	100	100
2	k6	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	k7	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	k8	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	kG	50/56 (89%)	47 (94%)	3 (6%)	17	43
2	kR	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	l1	25/56 (45%)	25 (100%)	0	100	100
2	l4	49/56 (88%)	49 (100%)	0	100	100
2	l6	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	l7	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	l8	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	lG	50/56 (89%)	49 (98%)	1 (2%)	48	65
2	lR	25/56 (45%)	25 (100%)	0	100	100
2	m1	49/56 (88%)	49 (100%)	0	100	100
2	m6	25/56 (45%)	25 (100%)	0	100	100
2	m7	25/56 (45%)	25 (100%)	0	100	100
2	m8	25/56 (45%)	25 (100%)	0	100	100
2	mG	25/56 (45%)	25 (100%)	0	100	100
2	mR	49/56 (88%)	49 (100%)	0	100	100
2	n6	49/56 (88%)	49 (100%)	0	100	100
2	n7	49/56 (88%)	49 (100%)	0	100	100
2	n8	49/56 (88%)	49 (100%)	0	100	100
2	nG	49/56 (88%)	49 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	A2	258/304 (85%)	254 (98%)	4 (2%)	55	68
3	A5	258/304 (85%)	253 (98%)	5 (2%)	50	66
3	A9	258/304 (85%)	253 (98%)	5 (2%)	50	66
3	AA	258/304 (85%)	254 (98%)	4 (2%)	55	68
3	AB	258/304 (85%)	253 (98%)	5 (2%)	50	66
3	AC	258/304 (85%)	253 (98%)	5 (2%)	50	66
3	AF	258/304 (85%)	254 (98%)	4 (2%)	55	68
3	AH	258/304 (85%)	254 (98%)	4 (2%)	55	68
3	AI	258/304 (85%)	253 (98%)	5 (2%)	50	66
3	AM	258/304 (85%)	254 (98%)	4 (2%)	55	68
3	AN	258/304 (85%)	253 (98%)	5 (2%)	50	66
3	AO	258/304 (85%)	253 (98%)	5 (2%)	50	66
4	B2	193/233 (83%)	191 (99%)	2 (1%)	68	74
4	B5	193/233 (83%)	191 (99%)	2 (1%)	68	74
4	B9	193/233 (83%)	191 (99%)	2 (1%)	68	74
4	BA	193/233 (83%)	191 (99%)	2 (1%)	68	74
4	BB	193/233 (83%)	191 (99%)	2 (1%)	68	74
4	BC	193/233 (83%)	191 (99%)	2 (1%)	68	74
4	BF	193/233 (83%)	191 (99%)	2 (1%)	68	74
4	BH	193/233 (83%)	191 (99%)	2 (1%)	68	74
4	BI	193/233 (83%)	191 (99%)	2 (1%)	68	74
4	BM	193/233 (83%)	191 (99%)	2 (1%)	68	74
4	BN	193/233 (83%)	191 (99%)	2 (1%)	68	74
4	BO	193/233 (83%)	191 (99%)	2 (1%)	68	74
5	C2	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	C5	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	C9	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	CA	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	CB	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	CC	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	CF	432/567 (76%)	431 (100%)	1 (0%)	87	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	CH	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	CI	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	CM	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	CN	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	CO	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	D2	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	D5	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	D9	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	DA	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	DB	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	DC	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	DF	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	DH	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	DI	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	DM	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	DN	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	DO	115/567 (20%)	114 (99%)	1 (1%)	70	74
5	E2	126/567 (22%)	126 (100%)	0	100	100
5	E5	126/567 (22%)	126 (100%)	0	100	100
5	E9	126/567 (22%)	126 (100%)	0	100	100
5	EA	126/567 (22%)	126 (100%)	0	100	100
5	EB	126/567 (22%)	126 (100%)	0	100	100
5	EC	126/567 (22%)	126 (100%)	0	100	100
5	EF	126/567 (22%)	126 (100%)	0	100	100
5	EH	126/567 (22%)	126 (100%)	0	100	100
5	EI	126/567 (22%)	126 (100%)	0	100	100
5	EM	126/567 (22%)	126 (100%)	0	100	100
5	EN	126/567 (22%)	126 (100%)	0	100	100
5	EO	126/567 (22%)	126 (100%)	0	100	100
5	F2	97/567 (17%)	96 (99%)	1 (1%)	68	74
5	F5	97/567 (17%)	96 (99%)	1 (1%)	68	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	F9	97/567 (17%)	96 (99%)	1 (1%)	68	74
5	FA	97/567 (17%)	96 (99%)	1 (1%)	68	74
5	FB	97/567 (17%)	96 (99%)	1 (1%)	68	74
5	FC	97/567 (17%)	96 (99%)	1 (1%)	68	74
5	FF	97/567 (17%)	96 (99%)	1 (1%)	68	74
5	FH	97/567 (17%)	96 (99%)	1 (1%)	68	74
5	FI	97/567 (17%)	96 (99%)	1 (1%)	68	74
5	FM	97/567 (17%)	96 (99%)	1 (1%)	68	74
5	FN	97/567 (17%)	96 (99%)	1 (1%)	68	74
5	FO	97/567 (17%)	96 (99%)	1 (1%)	68	74
5	N2	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	N5	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	N9	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	NA	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	NB	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	NC	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	NF	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	NH	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	NI	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	NM	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	NN	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	NO	432/567 (76%)	431 (100%)	1 (0%)	87	87
5	O2	431/567 (76%)	430 (100%)	1 (0%)	87	87
5	O5	431/567 (76%)	430 (100%)	1 (0%)	87	87
5	O9	431/567 (76%)	430 (100%)	1 (0%)	87	87
5	OA	431/567 (76%)	430 (100%)	1 (0%)	87	87
5	OB	431/567 (76%)	430 (100%)	1 (0%)	87	87
5	OC	431/567 (76%)	430 (100%)	1 (0%)	87	87
5	OF	431/567 (76%)	430 (100%)	1 (0%)	87	87
5	OH	431/567 (76%)	430 (100%)	1 (0%)	87	87
5	OI	431/567 (76%)	430 (100%)	1 (0%)	87	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
5	OM	431/567 (76%)	430 (100%)	1 (0%)	87 87
5	ON	431/567 (76%)	430 (100%)	1 (0%)	87 87
5	OO	431/567 (76%)	430 (100%)	1 (0%)	87 87
6	K2	1/132 (1%)	1 (100%)	0	100 100
6	K5	1/132 (1%)	1 (100%)	0	100 100
6	K9	1/132 (1%)	1 (100%)	0	100 100
6	KA	1/132 (1%)	1 (100%)	0	100 100
6	KB	1/132 (1%)	1 (100%)	0	100 100
6	KC	1/132 (1%)	1 (100%)	0	100 100
6	KF	1/132 (1%)	1 (100%)	0	100 100
6	KH	1/132 (1%)	1 (100%)	0	100 100
6	KI	1/132 (1%)	1 (100%)	0	100 100
6	KM	1/132 (1%)	1 (100%)	0	100 100
6	KN	1/132 (1%)	1 (100%)	0	100 100
6	KO	1/132 (1%)	1 (100%)	0	100 100
All	All	116815/148257 (79%)	115473 (99%)	1342 (1%)	63 73

All (1342) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C1	205	ILE
1	C1	206	LEU
1	C1	207	ASN
1	C1	392	LEU
1	A1	62	LEU
1	A1	183	LEU
1	A1	259	PHE
1	A1	318	THR
1	A1	348	ASN
1	B1	94	THR
1	B1	109	LEU
1	B1	261	ILE
1	D1	235	LEU
1	D1	264	ILE
1	D1	325	LYS
1	D1	391	ILE
2	E1	38	GLU

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Mol	Chain	Res	Type
2	E1	41	TYR
2	E1	45	ILE
2	F1	50	LYS
1	I1	205	ILE
1	I1	206	LEU
1	I1	207	ASN
1	I1	392	LEU
1	J1	62	LEU
1	J1	183	LEU
1	J1	259	PHE
1	J1	318	THR
1	J1	348	ASN
1	K1	94	THR
1	K1	109	LEU
1	K1	261	ILE
1	L1	235	LEU
1	L1	264	ILE
1	L1	325	LYS
1	L1	391	ILE
2	M1	38	GLU
2	M1	41	TYR
2	M1	45	ILE
2	N1	50	LYS
1	Q1	205	ILE
1	Q1	206	LEU
1	Q1	207	ASN
1	Q1	392	LEU
1	R1	62	LEU
1	R1	183	LEU
1	R1	259	PHE
1	R1	318	THR
1	R1	348	ASN
1	S1	94	THR
1	S1	109	LEU
1	S1	261	ILE
1	T1	235	LEU
1	T1	264	ILE
1	T1	325	LYS
1	T1	391	ILE
2	U1	50	LYS
1	X1	205	ILE
1	X1	206	LEU

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Mol	Chain	Res	Type
1	X1	207	ASN
1	X1	392	LEU
1	Y1	62	LEU
1	Y1	183	LEU
1	Y1	259	PHE
1	Y1	318	THR
1	Y1	348	ASN
1	Z1	94	THR
1	Z1	109	LEU
1	Z1	261	ILE
1	a1	235	LEU
1	a1	264	ILE
1	a1	325	LYS
1	a1	391	ILE
2	b1	38	GLU
2	b1	41	TYR
2	b1	45	ILE
2	c1	50	LYS
1	f1	205	ILE
1	f1	206	LEU
1	f1	207	ASN
1	f1	392	LEU
1	g1	62	LEU
1	g1	183	LEU
1	g1	259	PHE
1	g1	318	THR
1	g1	348	ASN
1	h1	94	THR
1	h1	109	LEU
1	h1	261	ILE
1	i1	235	LEU
1	i1	264	ILE
1	i1	325	LYS
1	i1	391	ILE
2	j1	38	GLU
2	j1	41	TYR
2	j1	45	ILE
2	k1	50	LYS
3	A2	41	LEU
3	A2	42	LEU
3	A2	78	ILE
3	A2	116	VAL

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Mol	Chain	Res	Type
4	B2	220	THR
4	B2	239	LEU
5	D2	55	LEU
5	F2	96	LEU
5	C2	388	LYS
5	N2	388	LYS
5	O2	388	LYS
1	C3	205	ILE
1	C3	206	LEU
1	C3	207	ASN
1	C3	392	LEU
1	A3	62	LEU
1	A3	183	LEU
1	A3	259	PHE
1	A3	318	THR
1	A3	348	ASN
1	B3	94	THR
1	B3	109	LEU
1	B3	261	ILE
1	D3	235	LEU
1	D3	264	ILE
1	D3	325	LYS
1	D3	391	ILE
2	E3	38	GLU
2	E3	41	TYR
2	E3	45	ILE
2	F3	50	LYS
1	I3	205	ILE
1	I3	206	LEU
1	I3	207	ASN
1	I3	392	LEU
1	J3	62	LEU
1	J3	183	LEU
1	J3	259	PHE
1	J3	318	THR
1	J3	348	ASN
1	K3	94	THR
1	K3	109	LEU
1	K3	261	ILE
1	L3	235	LEU
1	L3	264	ILE
1	L3	325	LYS

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Mol	Chain	Res	Type
1	L3	391	ILE
2	M3	38	GLU
2	M3	41	TYR
2	M3	45	ILE
2	N3	50	LYS
1	Q3	205	ILE
1	Q3	206	LEU
1	Q3	207	ASN
1	Q3	392	LEU
1	R3	62	LEU
1	R3	183	LEU
1	R3	259	PHE
1	R3	318	THR
1	R3	348	ASN
1	S3	94	THR
1	S3	109	LEU
1	S3	261	ILE
1	T3	235	LEU
1	T3	264	ILE
1	T3	325	LYS
1	T3	391	ILE
2	U3	38	GLU
2	U3	41	TYR
2	U3	45	ILE
2	V3	50	LYS
1	Y3	235	LEU
1	Y3	264	ILE
1	Y3	325	LYS
1	Y3	391	ILE
2	Z3	38	GLU
2	Z3	41	TYR
2	Z3	45	ILE
1	b3	235	LEU
1	b3	264	ILE
1	b3	325	LYS
1	b3	391	ILE
2	c3	38	GLU
2	c3	41	TYR
2	c3	45	ILE
1	C4	205	ILE
1	C4	206	LEU
1	C4	207	ASN

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Mol	Chain	Res	Type
1	C4	392	LEU
1	A4	62	LEU
1	A4	183	LEU
1	A4	259	PHE
1	A4	318	THR
1	A4	348	ASN
1	B4	94	THR
1	B4	109	LEU
1	B4	261	ILE
1	D4	235	LEU
1	D4	264	ILE
1	D4	325	LYS
1	D4	391	ILE
2	E4	38	GLU
2	E4	41	TYR
2	E4	45	ILE
2	F4	50	LYS
1	I4	205	ILE
1	I4	206	LEU
1	I4	207	ASN
1	I4	392	LEU
1	J4	62	LEU
1	J4	183	LEU
1	J4	259	PHE
1	J4	318	THR
1	J4	348	ASN
1	K4	94	THR
1	K4	109	LEU
1	K4	261	ILE
1	L4	235	LEU
1	L4	264	ILE
1	L4	325	LYS
1	L4	391	ILE
2	M4	38	GLU
2	M4	41	TYR
2	M4	45	ILE
2	N4	50	LYS
1	Q4	205	ILE
1	Q4	206	LEU
1	Q4	207	ASN
1	Q4	392	LEU
1	R4	62	LEU

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Mol	Chain	Res	Type
1	R4	183	LEU
1	R4	259	PHE
1	R4	318	THR
1	R4	348	ASN
1	S4	94	THR
1	S4	109	LEU
1	S4	261	ILE
1	T4	235	LEU
1	T4	264	ILE
1	T4	325	LYS
1	T4	391	ILE
2	U4	50	LYS
1	X4	205	ILE
1	X4	206	LEU
1	X4	207	ASN
1	X4	392	LEU
1	Y4	62	LEU
1	Y4	183	LEU
1	Y4	259	PHE
1	Y4	318	THR
1	Y4	348	ASN
1	Z4	94	THR
1	Z4	109	LEU
1	Z4	261	ILE
1	a4	235	LEU
1	a4	264	ILE
1	a4	325	LYS
1	a4	391	ILE
2	b4	38	GLU
2	b4	41	TYR
2	b4	45	ILE
2	c4	50	LYS
1	f4	205	ILE
1	f4	206	LEU
1	f4	207	ASN
1	f4	392	LEU
1	g4	62	LEU
1	g4	183	LEU
1	g4	259	PHE
1	g4	318	THR
1	g4	348	ASN
1	h4	94	THR

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Mol	Chain	Res	Type
1	h4	109	LEU
1	h4	261	ILE
1	i4	235	LEU
1	i4	264	ILE
1	i4	325	LYS
1	i4	391	ILE
2	j4	50	LYS
3	A5	41	LEU
3	A5	42	LEU
3	A5	78	ILE
3	A5	116	VAL
3	A5	297	LEU
4	B5	220	THR
4	B5	239	LEU
5	D5	55	LEU
5	F5	96	LEU
5	C5	388	LYS
5	N5	388	LYS
5	O5	388	LYS
1	C6	205	ILE
1	C6	206	LEU
1	C6	207	ASN
1	C6	392	LEU
1	A6	62	LEU
1	A6	183	LEU
1	A6	259	PHE
1	A6	318	THR
1	A6	348	ASN
1	B6	94	THR
1	B6	109	LEU
1	B6	261	ILE
1	D6	235	LEU
1	D6	264	ILE
1	D6	325	LYS
1	D6	391	ILE
2	E6	38	GLU
2	E6	41	TYR
2	E6	45	ILE
2	F6	50	LYS
1	I6	205	ILE
1	I6	206	LEU
1	I6	207	ASN

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Mol	Chain	Res	Type
1	I6	392	LEU
1	J6	62	LEU
1	J6	183	LEU
1	J6	259	PHE
1	J6	318	THR
1	J6	348	ASN
1	K6	94	THR
1	K6	109	LEU
1	K6	261	ILE
1	L6	235	LEU
1	L6	264	ILE
1	L6	325	LYS
1	L6	391	ILE
2	M6	38	GLU
2	M6	41	TYR
2	M6	45	ILE
2	N6	50	LYS
1	Q6	205	ILE
1	Q6	206	LEU
1	Q6	207	ASN
1	Q6	392	LEU
1	R6	62	LEU
1	R6	183	LEU
1	R6	259	PHE
1	R6	318	THR
1	R6	348	ASN
1	S6	94	THR
1	S6	109	LEU
1	S6	261	ILE
1	T6	235	LEU
1	T6	264	ILE
1	T6	325	LYS
1	T6	391	ILE
2	U6	38	GLU
2	U6	41	TYR
2	U6	45	ILE
2	V6	50	LYS
1	Y6	205	ILE
1	Y6	206	LEU
1	Y6	207	ASN
1	Y6	392	LEU
1	Z6	62	LEU

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Mol	Chain	Res	Type
1	Z6	183	LEU
1	Z6	259	PHE
1	Z6	318	THR
1	Z6	348	ASN
1	a6	94	THR
1	a6	109	LEU
1	a6	261	ILE
1	b6	235	LEU
1	b6	264	ILE
1	b6	325	LYS
1	b6	391	ILE
2	c6	38	GLU
2	c6	41	TYR
2	c6	45	ILE
2	d6	50	LYS
1	g6	205	ILE
1	g6	206	LEU
1	g6	207	ASN
1	g6	392	LEU
1	h6	62	LEU
1	h6	183	LEU
1	h6	259	PHE
1	h6	318	THR
1	h6	348	ASN
1	i6	94	THR
1	i6	109	LEU
1	i6	261	ILE
1	j6	235	LEU
1	j6	264	ILE
1	j6	325	LYS
1	j6	391	ILE
2	k6	38	GLU
2	k6	41	TYR
2	k6	45	ILE
2	l6	50	LYS
1	C7	205	ILE
1	C7	206	LEU
1	C7	207	ASN
1	C7	392	LEU
1	A7	62	LEU
1	A7	183	LEU
1	A7	259	PHE

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Mol	Chain	Res	Type
1	A7	318	THR
1	A7	348	ASN
1	B7	94	THR
1	B7	109	LEU
1	B7	261	ILE
1	D7	235	LEU
1	D7	264	ILE
1	D7	325	LYS
1	D7	391	ILE
2	E7	38	GLU
2	E7	41	TYR
2	E7	45	ILE
2	F7	50	LYS
1	I7	205	ILE
1	I7	206	LEU
1	I7	207	ASN
1	I7	392	LEU
1	J7	62	LEU
1	J7	183	LEU
1	J7	259	PHE
1	J7	318	THR
1	J7	348	ASN
1	K7	94	THR
1	K7	109	LEU
1	K7	261	ILE
1	L7	235	LEU
1	L7	264	ILE
1	L7	325	LYS
1	L7	391	ILE
2	M7	38	GLU
2	M7	41	TYR
2	M7	45	ILE
2	N7	50	LYS
1	Q7	205	ILE
1	Q7	206	LEU
1	Q7	207	ASN
1	Q7	392	LEU
1	R7	62	LEU
1	R7	183	LEU
1	R7	259	PHE
1	R7	318	THR
1	R7	348	ASN

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Mol	Chain	Res	Type
1	S7	94	THR
1	S7	109	LEU
1	S7	261	ILE
1	T7	235	LEU
1	T7	264	ILE
1	T7	325	LYS
1	T7	391	ILE
2	U7	38	GLU
2	U7	41	TYR
2	U7	45	ILE
2	V7	50	LYS
1	Y7	205	ILE
1	Y7	206	LEU
1	Y7	207	ASN
1	Y7	392	LEU
1	Z7	62	LEU
1	Z7	183	LEU
1	Z7	259	PHE
1	Z7	318	THR
1	Z7	348	ASN
1	a7	94	THR
1	a7	109	LEU
1	a7	261	ILE
1	b7	235	LEU
1	b7	264	ILE
1	b7	325	LYS
1	b7	391	ILE
2	c7	38	GLU
2	c7	41	TYR
2	c7	45	ILE
2	d7	50	LYS
1	g7	205	ILE
1	g7	206	LEU
1	g7	207	ASN
1	g7	392	LEU
1	h7	62	LEU
1	h7	183	LEU
1	h7	259	PHE
1	h7	318	THR
1	h7	348	ASN
1	i7	94	THR
1	i7	109	LEU

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Mol	Chain	Res	Type
1	i7	261	ILE
1	j7	235	LEU
1	j7	264	ILE
1	j7	325	LYS
1	j7	391	ILE
2	k7	38	GLU
2	k7	41	TYR
2	k7	45	ILE
2	l7	50	LYS
1	C8	205	ILE
1	C8	206	LEU
1	C8	207	ASN
1	C8	392	LEU
1	A8	62	LEU
1	A8	183	LEU
1	A8	259	PHE
1	A8	318	THR
1	A8	348	ASN
1	B8	94	THR
1	B8	109	LEU
1	B8	261	ILE
1	D8	235	LEU
1	D8	264	ILE
1	D8	325	LYS
1	D8	391	ILE
2	E8	38	GLU
2	E8	41	TYR
2	E8	45	ILE
2	F8	50	LYS
1	I8	205	ILE
1	I8	206	LEU
1	I8	207	ASN
1	I8	392	LEU
1	J8	62	LEU
1	J8	183	LEU
1	J8	259	PHE
1	J8	318	THR
1	J8	348	ASN
1	K8	94	THR
1	K8	109	LEU
1	K8	261	ILE
1	L8	235	LEU

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Mol	Chain	Res	Type
1	L8	264	ILE
1	L8	325	LYS
1	L8	391	ILE
2	M8	38	GLU
2	M8	41	TYR
2	M8	45	ILE
2	N8	50	LYS
1	Q8	205	ILE
1	Q8	206	LEU
1	Q8	207	ASN
1	Q8	392	LEU
1	R8	62	LEU
1	R8	183	LEU
1	R8	259	PHE
1	R8	318	THR
1	R8	348	ASN
1	S8	94	THR
1	S8	109	LEU
1	S8	261	ILE
1	T8	235	LEU
1	T8	264	ILE
1	T8	325	LYS
1	T8	391	ILE
2	U8	38	GLU
2	U8	41	TYR
2	U8	45	ILE
2	V8	50	LYS
1	Y8	205	ILE
1	Y8	206	LEU
1	Y8	207	ASN
1	Y8	392	LEU
1	Z8	62	LEU
1	Z8	183	LEU
1	Z8	259	PHE
1	Z8	318	THR
1	Z8	348	ASN
1	a8	94	THR
1	a8	109	LEU
1	a8	261	ILE
1	b8	235	LEU
1	b8	264	ILE
1	b8	325	LYS

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Mol	Chain	Res	Type
1	b8	391	ILE
2	c8	38	GLU
2	c8	41	TYR
2	c8	45	ILE
2	d8	50	LYS
1	g8	205	ILE
1	g8	206	LEU
1	g8	207	ASN
1	g8	392	LEU
1	h8	62	LEU
1	h8	183	LEU
1	h8	259	PHE
1	h8	318	THR
1	h8	348	ASN
1	i8	94	THR
1	i8	109	LEU
1	i8	261	ILE
1	j8	235	LEU
1	j8	264	ILE
1	j8	325	LYS
1	j8	391	ILE
2	k8	38	GLU
2	k8	41	TYR
2	k8	45	ILE
2	l8	50	LYS
3	A9	41	LEU
3	A9	42	LEU
3	A9	78	ILE
3	A9	116	VAL
3	A9	297	LEU
4	B9	220	THR
4	B9	239	LEU
5	D9	55	LEU
5	F9	96	LEU
5	C9	388	LYS
5	N9	388	LYS
5	O9	388	LYS
3	AA	41	LEU
3	AA	42	LEU
3	AA	78	ILE
3	AA	116	VAL
4	BA	220	THR

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Mol	Chain	Res	Type
4	BA	239	LEU
5	DA	55	LEU
5	FA	96	LEU
5	CA	388	LYS
5	NA	388	LYS
5	OA	388	LYS
3	AB	41	LEU
3	AB	42	LEU
3	AB	78	ILE
3	AB	116	VAL
3	AB	297	LEU
4	BB	220	THR
4	BB	239	LEU
5	DB	55	LEU
5	FB	96	LEU
5	CB	388	LYS
5	NB	388	LYS
5	OB	388	LYS
3	AC	41	LEU
3	AC	42	LEU
3	AC	78	ILE
3	AC	116	VAL
3	AC	297	LEU
4	BC	220	THR
4	BC	239	LEU
5	DC	55	LEU
5	FC	96	LEU
5	CC	388	LYS
5	NC	388	LYS
5	OC	388	LYS
1	AD	58	ILE
1	AD	60	GLU
1	AD	62	LEU
1	AD	63	LEU
1	AD	235	LEU
1	AD	238	ILE
1	AD	251	LEU
1	BD	4	GLN
1	BD	167	GLU
1	BD	175	LEU
1	BD	240	ILE
1	CD	63	LEU

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Mol	Chain	Res	Type
1	CD	94	THR
1	CD	214	LYS
1	CD	240	ILE
1	DD	63	LEU
1	DD	94	THR
1	DD	163	ILE
1	DD	166	LEU
1	DD	168	GLU
1	DD	175	LEU
1	DD	226	ILE
1	DD	345	LEU
1	DD	391	ILE
2	FD	13	THR
2	GD	34	THR
1	KD	12	LEU
1	KD	73	ASN
1	KD	250	LEU
1	LD	94	THR
1	LD	175	LEU
1	LD	235	LEU
1	LD	240	ILE
1	LD	261	ILE
1	LD	391	ILE
2	ND	34	THR
1	DE	235	LEU
1	DE	264	ILE
1	DE	325	LYS
1	DE	391	ILE
2	EE	38	GLU
2	EE	41	TYR
2	EE	45	ILE
1	AE	205	ILE
1	AE	206	LEU
1	AE	207	ASN
1	AE	392	LEU
1	BE	62	LEU
1	BE	183	LEU
1	BE	259	PHE
1	BE	318	THR
1	BE	348	ASN
1	CE	94	THR
1	CE	109	LEU

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Mol	Chain	Res	Type
1	CE	261	ILE
1	FE	235	LEU
1	FE	264	ILE
1	FE	325	LYS
1	FE	391	ILE
2	HE	50	LYS
1	KE	205	ILE
1	KE	206	LEU
1	KE	207	ASN
1	KE	392	LEU
1	LE	62	LEU
1	LE	183	LEU
1	LE	259	PHE
1	LE	318	THR
1	LE	348	ASN
1	ME	94	THR
1	ME	109	LEU
1	ME	261	ILE
1	NE	235	LEU
1	NE	264	ILE
1	NE	325	LYS
1	NE	391	ILE
2	OE	38	GLU
2	OE	41	TYR
2	OE	45	ILE
2	PE	50	LYS
1	SE	205	ILE
1	SE	206	LEU
1	SE	207	ASN
1	SE	392	LEU
1	TE	62	LEU
1	TE	183	LEU
1	TE	259	PHE
1	TE	318	THR
1	TE	348	ASN
1	UE	94	THR
1	UE	109	LEU
1	UE	261	ILE
1	VE	235	LEU
1	VE	264	ILE
1	VE	325	LYS
1	VE	391	ILE

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Mol	Chain	Res	Type
2	WE	38	GLU
2	WE	41	TYR
2	WE	45	ILE
2	XE	50	LYS
1	aE	205	ILE
1	aE	206	LEU
1	aE	207	ASN
1	aE	392	LEU
1	bE	62	LEU
1	bE	183	LEU
1	bE	259	PHE
1	bE	318	THR
1	bE	348	ASN
1	cE	94	THR
1	cE	109	LEU
1	cE	261	ILE
1	dE	235	LEU
1	dE	264	ILE
1	dE	325	LYS
1	dE	391	ILE
2	eE	38	GLU
2	eE	41	TYR
2	eE	45	ILE
2	fE	50	LYS
3	AF	41	LEU
3	AF	42	LEU
3	AF	78	ILE
3	AF	116	VAL
4	BF	220	THR
4	BF	239	LEU
5	DF	55	LEU
5	FF	96	LEU
5	CF	388	LYS
5	NF	388	LYS
5	OF	388	LYS
1	CG	205	ILE
1	CG	206	LEU
1	CG	207	ASN
1	CG	392	LEU
1	AG	62	LEU
1	AG	183	LEU
1	AG	259	PHE

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Mol	Chain	Res	Type
1	AG	318	THR
1	AG	348	ASN
1	BG	94	THR
1	BG	109	LEU
1	BG	261	ILE
1	DG	235	LEU
1	DG	264	ILE
1	DG	325	LYS
1	DG	391	ILE
2	EG	38	GLU
2	EG	41	TYR
2	EG	45	ILE
2	FG	50	LYS
1	IG	205	ILE
1	IG	206	LEU
1	IG	207	ASN
1	IG	392	LEU
1	JG	62	LEU
1	JG	183	LEU
1	JG	259	PHE
1	JG	318	THR
1	JG	348	ASN
1	KG	94	THR
1	KG	109	LEU
1	KG	261	ILE
1	LG	235	LEU
1	LG	264	ILE
1	LG	325	LYS
1	LG	391	ILE
2	MG	38	GLU
2	MG	41	TYR
2	MG	45	ILE
2	NG	50	LYS
1	QG	205	ILE
1	QG	206	LEU
1	QG	207	ASN
1	QG	392	LEU
1	RG	62	LEU
1	RG	183	LEU
1	RG	259	PHE
1	RG	318	THR
1	RG	348	ASN

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Mol	Chain	Res	Type
1	SG	94	THR
1	SG	109	LEU
1	SG	261	ILE
1	TG	235	LEU
1	TG	264	ILE
1	TG	325	LYS
1	TG	391	ILE
2	UG	38	GLU
2	UG	41	TYR
2	UG	45	ILE
2	VG	50	LYS
1	YG	205	ILE
1	YG	206	LEU
1	YG	207	ASN
1	YG	392	LEU
1	ZG	62	LEU
1	ZG	183	LEU
1	ZG	259	PHE
1	ZG	318	THR
1	ZG	348	ASN
1	aG	94	THR
1	aG	109	LEU
1	aG	261	ILE
1	bG	235	LEU
1	bG	264	ILE
1	bG	325	LYS
1	bG	391	ILE
2	cG	38	GLU
2	cG	41	TYR
2	cG	45	ILE
2	dG	50	LYS
1	gG	205	ILE
1	gG	206	LEU
1	gG	207	ASN
1	gG	392	LEU
1	hG	62	LEU
1	hG	183	LEU
1	hG	259	PHE
1	hG	318	THR
1	hG	348	ASN
1	iG	94	THR
1	iG	109	LEU

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Mol	Chain	Res	Type
1	iG	261	ILE
1	jG	235	LEU
1	jG	264	ILE
1	jG	325	LYS
1	jG	391	ILE
2	kG	38	GLU
2	kG	41	TYR
2	kG	45	ILE
2	lG	50	LYS
3	AH	41	LEU
3	AH	42	LEU
3	AH	78	ILE
3	AH	116	VAL
4	BH	220	THR
4	BH	239	LEU
5	DH	55	LEU
5	FH	96	LEU
5	CH	388	LYS
5	NH	388	LYS
5	OH	388	LYS
3	AI	41	LEU
3	AI	42	LEU
3	AI	78	ILE
3	AI	116	VAL
3	AI	297	LEU
4	BI	220	THR
4	BI	239	LEU
5	DI	55	LEU
5	FI	96	LEU
5	CI	388	LYS
5	NI	388	LYS
5	OI	388	LYS
1	AJ	58	ILE
1	AJ	60	GLU
1	AJ	62	LEU
1	AJ	63	LEU
1	AJ	235	LEU
1	AJ	238	ILE
1	AJ	251	LEU
1	BJ	4	GLN
1	BJ	167	GLU
1	BJ	175	LEU

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Mol	Chain	Res	Type
1	BJ	240	ILE
1	CJ	63	LEU
1	CJ	94	THR
1	CJ	214	LYS
1	CJ	240	ILE
1	DJ	63	LEU
1	DJ	94	THR
1	DJ	163	ILE
1	DJ	166	LEU
1	DJ	168	GLU
1	DJ	175	LEU
1	DJ	226	ILE
1	DJ	345	LEU
1	DJ	391	ILE
2	FJ	13	THR
2	GJ	34	THR
1	KJ	12	LEU
1	KJ	73	ASN
1	KJ	250	LEU
1	LJ	94	THR
1	LJ	175	LEU
1	LJ	235	LEU
1	LJ	240	ILE
1	LJ	261	ILE
1	LJ	391	ILE
2	NJ	34	THR
1	AK	58	ILE
1	AK	60	GLU
1	AK	62	LEU
1	AK	63	LEU
1	AK	235	LEU
1	AK	238	ILE
1	AK	251	LEU
1	BK	4	GLN
1	BK	167	GLU
1	BK	175	LEU
1	BK	240	ILE
1	CK	63	LEU
1	CK	94	THR
1	CK	214	LYS
1	CK	240	ILE
1	DK	63	LEU

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Mol	Chain	Res	Type
1	DK	94	THR
1	DK	163	ILE
1	DK	166	LEU
1	DK	168	GLU
1	DK	175	LEU
1	DK	226	ILE
1	DK	345	LEU
1	DK	391	ILE
2	FK	13	THR
2	GK	34	THR
1	KK	12	LEU
1	KK	73	ASN
1	KK	250	LEU
1	LK	94	THR
1	LK	175	LEU
1	LK	235	LEU
1	LK	240	ILE
1	LK	261	ILE
1	LK	391	ILE
2	NK	34	THR
1	CL	205	ILE
1	CL	206	LEU
1	CL	207	ASN
1	CL	392	LEU
1	AL	62	LEU
1	AL	183	LEU
1	AL	259	PHE
1	AL	318	THR
1	AL	348	ASN
1	BL	94	THR
1	BL	109	LEU
1	BL	261	ILE
1	DL	235	LEU
1	DL	264	ILE
1	DL	325	LYS
1	DL	391	ILE
2	EL	38	GLU
2	EL	41	TYR
2	EL	45	ILE
2	FL	50	LYS
1	IL	205	ILE
1	IL	206	LEU

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Mol	Chain	Res	Type
1	IL	207	ASN
1	IL	392	LEU
1	JL	62	LEU
1	JL	183	LEU
1	JL	259	PHE
1	JL	318	THR
1	JL	348	ASN
1	KL	94	THR
1	KL	109	LEU
1	KL	261	ILE
1	LL	235	LEU
1	LL	264	ILE
1	LL	325	LYS
1	LL	391	ILE
2	ML	38	GLU
2	ML	41	TYR
2	ML	45	ILE
2	NL	50	LYS
1	QL	205	ILE
1	QL	206	LEU
1	QL	207	ASN
1	QL	392	LEU
1	RL	62	LEU
1	RL	183	LEU
1	RL	259	PHE
1	RL	318	THR
1	RL	348	ASN
1	SL	94	THR
1	SL	109	LEU
1	SL	261	ILE
1	TL	235	LEU
1	TL	264	ILE
1	TL	325	LYS
1	TL	391	ILE
2	UL	38	GLU
2	UL	41	TYR
2	UL	45	ILE
2	VL	50	LYS
1	YL	205	ILE
1	YL	206	LEU
1	YL	207	ASN
1	YL	392	LEU

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Mol	Chain	Res	Type
1	ZL	62	LEU
1	ZL	183	LEU
1	ZL	259	PHE
1	ZL	318	THR
1	ZL	348	ASN
1	aL	94	THR
1	aL	109	LEU
1	aL	261	ILE
1	bL	235	LEU
1	bL	264	ILE
1	bL	325	LYS
1	bL	391	ILE
2	cL	38	GLU
2	cL	41	TYR
2	cL	45	ILE
2	dL	50	LYS
1	gL	235	LEU
1	gL	264	ILE
1	gL	325	LYS
1	gL	391	ILE
2	hL	38	GLU
2	hL	41	TYR
2	hL	45	ILE
3	AM	41	LEU
3	AM	42	LEU
3	AM	78	ILE
3	AM	116	VAL
4	BM	220	THR
4	BM	239	LEU
5	DM	55	LEU
5	FM	96	LEU
5	CM	388	LYS
5	NM	388	LYS
5	OM	388	LYS
3	AN	41	LEU
3	AN	42	LEU
3	AN	78	ILE
3	AN	116	VAL
3	AN	297	LEU
4	BN	220	THR
4	BN	239	LEU
5	DN	55	LEU

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Mol	Chain	Res	Type
5	FN	96	LEU
5	CN	388	LYS
5	NN	388	LYS
5	ON	388	LYS
3	AO	41	LEU
3	AO	42	LEU
3	AO	78	ILE
3	AO	116	VAL
3	AO	297	LEU
4	BO	220	THR
4	BO	239	LEU
5	DO	55	LEU
5	FO	96	LEU
5	CO	388	LYS
5	NO	388	LYS
5	OO	388	LYS
1	AP	58	ILE
1	AP	60	GLU
1	AP	62	LEU
1	AP	63	LEU
1	AP	235	LEU
1	AP	238	ILE
1	AP	251	LEU
1	BP	4	GLN
1	BP	167	GLU
1	BP	175	LEU
1	BP	240	ILE
1	CP	63	LEU
1	CP	94	THR
1	CP	214	LYS
1	CP	240	ILE
1	DP	63	LEU
1	DP	94	THR
1	DP	163	ILE
1	DP	166	LEU
1	DP	168	GLU
1	DP	175	LEU
1	DP	226	ILE
1	DP	345	LEU
1	DP	391	ILE
2	FP	13	THR
2	GP	34	THR

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Mol	Chain	Res	Type
1	KP	12	LEU
1	KP	73	ASN
1	KP	250	LEU
1	KP	347	ILE
1	LP	94	THR
1	LP	175	LEU
1	LP	235	LEU
1	LP	240	ILE
1	LP	261	ILE
1	LP	391	ILE
2	NP	34	THR
1	CQ	205	ILE
1	CQ	206	LEU
1	CQ	207	ASN
1	CQ	392	LEU
1	AQ	62	LEU
1	AQ	183	LEU
1	AQ	259	PHE
1	AQ	318	THR
1	AQ	348	ASN
1	BQ	94	THR
1	BQ	109	LEU
1	BQ	261	ILE
1	DQ	235	LEU
1	DQ	264	ILE
1	DQ	325	LYS
1	DQ	391	ILE
2	EQ	38	GLU
2	EQ	41	TYR
2	EQ	45	ILE
2	FQ	50	LYS
1	IQ	205	ILE
1	IQ	206	LEU
1	IQ	207	ASN
1	IQ	392	LEU
1	JQ	62	LEU
1	JQ	183	LEU
1	JQ	259	PHE
1	JQ	318	THR
1	JQ	348	ASN
1	KQ	94	THR
1	KQ	109	LEU

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Mol	Chain	Res	Type
1	KQ	261	ILE
1	LQ	235	LEU
1	LQ	264	ILE
1	LQ	325	LYS
1	LQ	391	ILE
2	MQ	38	GLU
2	MQ	41	TYR
2	MQ	45	ILE
2	NQ	50	LYS
1	QQ	205	ILE
1	QQ	206	LEU
1	QQ	207	ASN
1	QQ	392	LEU
1	RQ	62	LEU
1	RQ	183	LEU
1	RQ	259	PHE
1	RQ	318	THR
1	RQ	348	ASN
1	SQ	94	THR
1	SQ	109	LEU
1	SQ	261	ILE
1	TQ	235	LEU
1	TQ	264	ILE
1	TQ	325	LYS
1	TQ	391	ILE
2	UQ	38	GLU
2	UQ	41	TYR
2	UQ	45	ILE
2	VQ	50	LYS
1	YQ	235	LEU
1	YQ	264	ILE
1	YQ	325	LYS
1	YQ	391	ILE
2	ZQ	38	GLU
2	ZQ	41	TYR
2	ZQ	45	ILE
1	bQ	205	ILE
1	bQ	206	LEU
1	bQ	207	ASN
1	bQ	392	LEU
1	cQ	62	LEU
1	cQ	183	LEU

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Mol	Chain	Res	Type
1	cQ	259	PHE
1	cQ	318	THR
1	cQ	348	ASN
1	dQ	94	THR
1	dQ	109	LEU
1	dQ	261	ILE
1	eQ	235	LEU
1	eQ	264	ILE
1	eQ	325	LYS
1	eQ	391	ILE
2	fQ	38	GLU
2	fQ	41	TYR
2	fQ	45	ILE
2	gQ	50	LYS
1	CR	205	ILE
1	CR	206	LEU
1	CR	207	ASN
1	CR	392	LEU
1	AR	62	LEU
1	AR	183	LEU
1	AR	259	PHE
1	AR	318	THR
1	AR	348	ASN
1	BR	94	THR
1	BR	109	LEU
1	BR	261	ILE
1	DR	235	LEU
1	DR	264	ILE
1	DR	325	LYS
1	DR	391	ILE
2	ER	38	GLU
2	ER	41	TYR
2	ER	45	ILE
2	FR	50	LYS
1	IR	205	ILE
1	IR	206	LEU
1	IR	207	ASN
1	IR	392	LEU
1	JR	62	LEU
1	JR	183	LEU
1	JR	259	PHE
1	JR	318	THR

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Mol	Chain	Res	Type
1	JR	348	ASN
1	KR	94	THR
1	KR	109	LEU
1	KR	261	ILE
1	LR	235	LEU
1	LR	264	ILE
1	LR	325	LYS
1	LR	391	ILE
2	MR	38	GLU
2	MR	41	TYR
2	MR	45	ILE
2	NR	50	LYS
1	QR	205	ILE
1	QR	206	LEU
1	QR	207	ASN
1	QR	392	LEU
1	RR	62	LEU
1	RR	183	LEU
1	RR	259	PHE
1	RR	318	THR
1	RR	348	ASN
1	SR	94	THR
1	SR	109	LEU
1	SR	261	ILE
1	TR	235	LEU
1	TR	264	ILE
1	TR	325	LYS
1	TR	391	ILE
2	UR	38	GLU
2	UR	41	TYR
2	UR	45	ILE
2	VR	50	LYS
1	YR	205	ILE
1	YR	206	LEU
1	YR	207	ASN
1	YR	392	LEU
1	ZR	62	LEU
1	ZR	183	LEU
1	ZR	259	PHE
1	ZR	318	THR
1	ZR	348	ASN
1	aR	94	THR

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Mol	Chain	Res	Type
1	aR	109	LEU
1	aR	261	ILE
1	bR	235	LEU
1	bR	264	ILE
1	bR	325	LYS
1	bR	391	ILE
2	cR	38	GLU
2	cR	41	TYR
2	cR	45	ILE
2	dR	50	LYS
1	gR	205	ILE
1	gR	206	LEU
1	gR	207	ASN
1	gR	392	LEU
1	hR	62	LEU
1	hR	183	LEU
1	hR	259	PHE
1	hR	318	THR
1	hR	348	ASN
1	iR	94	THR
1	iR	109	LEU
1	iR	261	ILE
1	jR	235	LEU
1	jR	264	ILE
1	jR	325	LYS
1	jR	391	ILE
2	kR	50	LYS
1	AS	4	GLN
1	AS	167	GLU
1	AS	175	LEU
1	AS	240	ILE
1	AS	340	LEU
1	BS	63	LEU
1	BS	94	THR
1	BS	214	LYS
1	BS	240	ILE
1	CS	63	LEU
1	CS	94	THR
1	CS	163	ILE
1	CS	166	LEU
1	CS	168	GLU
1	CS	175	LEU

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Mol	Chain	Res	Type
1	CS	226	ILE
1	CS	345	LEU
1	CS	391	ILE
2	ES	13	THR
2	FS	34	THR
1	IS	58	ILE
1	IS	60	GLU
1	IS	62	LEU
1	IS	63	LEU
1	IS	235	LEU
1	IS	238	ILE
1	IS	251	LEU
1	JS	12	LEU
1	JS	73	ASN
1	JS	250	LEU
1	JS	347	ILE
1	KS	94	THR
1	KS	175	LEU
1	KS	235	LEU
1	KS	240	ILE
1	KS	261	ILE
1	KS	391	ILE
2	MS	34	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1892) such sidechains are listed below:

Mol	Chain	Res	Type
1	C1	23	GLN
1	C1	27	HIS
1	C1	70	ASN
1	C1	98	ASN
1	C1	129	GLN
1	C1	219	HIS
1	C1	365	HIS
1	C1	377	HIS
1	A1	70	ASN
1	A1	129	GLN
1	A1	207	ASN
1	A1	210	ASN
1	A1	348	ASN
1	B1	23	GLN
1	B1	150	ASN

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Mol	Chain	Res	Type
1	B1	290	ASN
1	B1	374	HIS
1	B1	377	HIS
1	D1	26	ASN
1	D1	98	ASN
1	D1	207	ASN
1	D1	291	GLN
1	D1	348	ASN
2	E1	44	GLN
2	H1	35	ASN
1	I1	23	GLN
1	I1	27	HIS
1	I1	70	ASN
1	I1	129	GLN
1	I1	141	ASN
1	I1	219	HIS
1	I1	291	GLN
1	I1	365	HIS
1	I1	377	HIS
1	J1	70	ASN
1	J1	129	GLN
1	J1	181	ASN
1	J1	207	ASN
1	J1	210	ASN
1	J1	348	ASN
1	K1	23	GLN
1	K1	150	ASN
1	K1	290	ASN
1	K1	374	HIS
1	K1	377	HIS
1	L1	26	ASN
1	L1	98	ASN
1	L1	207	ASN
1	L1	291	GLN
1	L1	348	ASN
2	M1	44	GLN
2	P1	35	ASN
1	Q1	23	GLN
1	Q1	27	HIS
1	Q1	70	ASN
1	Q1	129	GLN
1	Q1	141	ASN

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Mol	Chain	Res	Type
1	Q1	219	HIS
1	Q1	291	GLN
1	Q1	365	HIS
1	Q1	377	HIS
1	R1	70	ASN
1	R1	98	ASN
1	R1	123	ASN
1	R1	129	GLN
1	R1	207	ASN
1	R1	210	ASN
1	R1	304	GLN
1	R1	348	ASN
1	S1	23	GLN
1	S1	98	ASN
1	S1	150	ASN
1	S1	290	ASN
1	S1	365	HIS
1	S1	374	HIS
1	S1	377	HIS
1	T1	23	GLN
1	T1	26	ASN
1	T1	98	ASN
1	T1	150	ASN
1	T1	207	ASN
1	T1	291	GLN
1	T1	348	ASN
1	T1	374	HIS
2	W1	35	ASN
1	X1	23	GLN
1	X1	27	HIS
1	X1	70	ASN
1	X1	129	GLN
1	X1	219	HIS
1	X1	291	GLN
1	X1	365	HIS
1	X1	377	HIS
1	Y1	70	ASN
1	Y1	129	GLN
1	Y1	207	ASN
1	Y1	210	ASN
1	Y1	348	ASN
1	Z1	23	GLN

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Mol	Chain	Res	Type
1	Z1	150	ASN
1	Z1	290	ASN
1	Z1	374	HIS
1	Z1	377	HIS
1	a1	98	ASN
1	a1	207	ASN
1	a1	291	GLN
1	a1	348	ASN
2	b1	29	ASN
2	b1	44	GLN
2	e1	35	ASN
1	f1	23	GLN
1	f1	27	HIS
1	f1	70	ASN
1	f1	129	GLN
1	f1	141	ASN
1	f1	219	HIS
1	f1	291	GLN
1	f1	365	HIS
1	f1	377	HIS
1	g1	70	ASN
1	g1	129	GLN
1	g1	207	ASN
1	g1	210	ASN
1	h1	23	GLN
1	h1	150	ASN
1	h1	290	ASN
1	h1	365	HIS
1	h1	374	HIS
1	h1	377	HIS
1	i1	23	GLN
1	i1	26	ASN
1	i1	98	ASN
1	i1	207	ASN
1	i1	211	ASN
1	i1	291	GLN
1	i1	348	ASN
2	j1	44	GLN
2	m1	35	ASN
3	A2	23	HIS
3	A2	67	ASN
3	A2	134	ASN

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Mol	Chain	Res	Type
3	A2	149	GLN
3	A2	194	ASN
3	A2	202	ASN
3	A2	225	ASN
3	A2	270	ASN
4	B2	38	GLN
4	B2	41	GLN
4	B2	125	GLN
4	B2	130	HIS
4	B2	144	GLN
5	D2	39	ASN
5	C2	193	GLN
5	C2	275	ASN
5	C2	287	ASN
5	C2	355	GLN
5	C2	433	HIS
5	C2	566	ASN
5	N2	193	GLN
5	N2	287	ASN
5	N2	355	GLN
5	N2	433	HIS
5	N2	566	ASN
5	O2	193	GLN
5	O2	287	ASN
5	O2	433	HIS
5	O2	566	ASN
1	C3	23	GLN
1	C3	27	HIS
1	C3	70	ASN
1	C3	129	GLN
1	C3	141	ASN
1	C3	219	HIS
1	C3	291	GLN
1	C3	365	HIS
1	C3	377	HIS
1	A3	70	ASN
1	A3	129	GLN
1	A3	207	ASN
1	A3	210	ASN
1	A3	348	ASN
1	B3	23	GLN
1	B3	150	ASN

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Mol	Chain	Res	Type
1	B3	290	ASN
1	B3	365	HIS
1	B3	374	HIS
1	B3	377	HIS
1	D3	26	ASN
1	D3	98	ASN
1	D3	207	ASN
1	D3	211	ASN
1	D3	291	GLN
1	D3	348	ASN
2	E3	44	GLN
2	H3	35	ASN
1	I3	23	GLN
1	I3	27	HIS
1	I3	70	ASN
1	I3	129	GLN
1	I3	141	ASN
1	I3	219	HIS
1	I3	365	HIS
1	I3	377	HIS
1	J3	70	ASN
1	J3	129	GLN
1	J3	181	ASN
1	J3	207	ASN
1	J3	210	ASN
1	J3	348	ASN
1	K3	23	GLN
1	K3	150	ASN
1	K3	290	ASN
1	K3	374	HIS
1	K3	377	HIS
1	L3	26	ASN
1	L3	98	ASN
1	L3	207	ASN
1	L3	291	GLN
1	L3	348	ASN
2	P3	35	ASN
1	Q3	23	GLN
1	Q3	27	HIS
1	Q3	70	ASN
1	Q3	129	GLN
1	Q3	141	ASN

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Mol	Chain	Res	Type
1	Q3	219	HIS
1	Q3	291	GLN
1	Q3	365	HIS
1	Q3	377	HIS
1	R3	70	ASN
1	R3	129	GLN
1	R3	207	ASN
1	R3	210	ASN
1	R3	348	ASN
1	S3	23	GLN
1	S3	150	ASN
1	S3	290	ASN
1	S3	365	HIS
1	S3	374	HIS
1	S3	377	HIS
1	T3	26	ASN
1	T3	98	ASN
1	T3	207	ASN
1	T3	291	GLN
1	T3	348	ASN
2	U3	29	ASN
2	X3	35	ASN
1	Y3	23	GLN
1	Y3	26	ASN
1	Y3	98	ASN
1	Y3	207	ASN
1	Y3	291	GLN
1	Y3	348	ASN
2	Z3	44	GLN
1	b3	26	ASN
1	b3	98	ASN
1	b3	123	ASN
1	b3	207	ASN
1	b3	211	ASN
1	b3	291	GLN
1	b3	348	ASN
2	c3	29	ASN
2	c3	44	GLN
1	C4	23	GLN
1	C4	27	HIS
1	C4	70	ASN
1	C4	129	GLN

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Mol	Chain	Res	Type
1	C4	219	HIS
1	C4	291	GLN
1	C4	365	HIS
1	C4	377	HIS
1	A4	70	ASN
1	A4	129	GLN
1	A4	181	ASN
1	A4	207	ASN
1	A4	210	ASN
1	B4	23	GLN
1	B4	150	ASN
1	B4	290	ASN
1	B4	365	HIS
1	B4	374	HIS
1	B4	377	HIS
1	D4	23	GLN
1	D4	26	ASN
1	D4	98	ASN
1	D4	207	ASN
1	D4	211	ASN
1	D4	291	GLN
1	D4	348	ASN
2	E4	29	ASN
2	E4	44	GLN
2	H4	35	ASN
1	I4	23	GLN
1	I4	27	HIS
1	I4	70	ASN
1	I4	129	GLN
1	I4	141	ASN
1	I4	219	HIS
1	I4	291	GLN
1	I4	365	HIS
1	I4	377	HIS
1	J4	70	ASN
1	J4	129	GLN
1	J4	181	ASN
1	J4	207	ASN
1	J4	210	ASN
1	J4	348	ASN
1	K4	23	GLN
1	K4	150	ASN

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Mol	Chain	Res	Type
1	K4	290	ASN
1	K4	374	HIS
1	K4	377	HIS
1	L4	23	GLN
1	L4	26	ASN
1	L4	98	ASN
1	L4	207	ASN
1	L4	211	ASN
1	L4	291	GLN
1	L4	348	ASN
2	M4	44	GLN
2	P4	35	ASN
1	Q4	23	GLN
1	Q4	27	HIS
1	Q4	70	ASN
1	Q4	129	GLN
1	Q4	291	GLN
1	Q4	365	HIS
1	Q4	377	HIS
1	R4	70	ASN
1	R4	98	ASN
1	R4	123	ASN
1	R4	129	GLN
1	R4	207	ASN
1	R4	210	ASN
1	R4	304	GLN
1	R4	348	ASN
1	S4	23	GLN
1	S4	98	ASN
1	S4	150	ASN
1	S4	290	ASN
1	S4	374	HIS
1	S4	377	HIS
1	T4	23	GLN
1	T4	26	ASN
1	T4	98	ASN
1	T4	207	ASN
1	T4	291	GLN
1	T4	348	ASN
1	T4	374	HIS
2	W4	35	ASN
1	X4	23	GLN

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Mol	Chain	Res	Type
1	X4	27	HIS
1	X4	70	ASN
1	X4	129	GLN
1	X4	141	ASN
1	X4	219	HIS
1	X4	291	GLN
1	X4	365	HIS
1	X4	377	HIS
1	Y4	70	ASN
1	Y4	129	GLN
1	Y4	207	ASN
1	Y4	210	ASN
1	Y4	348	ASN
1	Z4	23	GLN
1	Z4	150	ASN
1	Z4	290	ASN
1	Z4	365	HIS
1	Z4	374	HIS
1	Z4	377	HIS
1	a4	98	ASN
1	a4	207	ASN
1	a4	291	GLN
1	a4	348	ASN
2	b4	44	GLN
2	e4	35	ASN
1	f4	23	GLN
1	f4	27	HIS
1	f4	70	ASN
1	f4	129	GLN
1	f4	141	ASN
1	f4	291	GLN
1	f4	365	HIS
1	f4	377	HIS
1	g4	70	ASN
1	g4	98	ASN
1	g4	123	ASN
1	g4	129	GLN
1	g4	207	ASN
1	g4	210	ASN
1	g4	304	GLN
1	g4	348	ASN
1	h4	23	GLN

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Mol	Chain	Res	Type
1	h4	98	ASN
1	h4	150	ASN
1	h4	290	ASN
1	h4	365	HIS
1	h4	374	HIS
1	h4	377	HIS
1	i4	23	GLN
1	i4	26	ASN
1	i4	98	ASN
1	i4	207	ASN
1	i4	211	ASN
1	i4	291	GLN
1	i4	348	ASN
1	i4	374	HIS
2	l4	35	ASN
3	A5	23	HIS
3	A5	67	ASN
3	A5	134	ASN
3	A5	194	ASN
3	A5	202	ASN
3	A5	225	ASN
3	A5	270	ASN
4	B5	38	GLN
4	B5	41	GLN
4	B5	125	GLN
4	B5	130	HIS
4	B5	144	GLN
5	C5	193	GLN
5	C5	275	ASN
5	C5	287	ASN
5	C5	355	GLN
5	C5	433	HIS
5	C5	566	ASN
5	N5	193	GLN
5	N5	287	ASN
5	N5	355	GLN
5	N5	433	HIS
5	N5	566	ASN
5	O5	193	GLN
5	O5	287	ASN
5	O5	433	HIS
5	O5	566	ASN

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Mol	Chain	Res	Type
1	C6	23	GLN
1	C6	27	HIS
1	C6	70	ASN
1	C6	98	ASN
1	C6	129	GLN
1	C6	141	ASN
1	C6	219	HIS
1	C6	291	GLN
1	C6	365	HIS
1	C6	377	HIS
1	A6	70	ASN
1	A6	129	GLN
1	A6	207	ASN
1	A6	210	ASN
1	A6	348	ASN
1	B6	23	GLN
1	B6	150	ASN
1	B6	290	ASN
1	B6	374	HIS
1	B6	377	HIS
1	D6	26	ASN
1	D6	98	ASN
1	D6	207	ASN
1	D6	291	GLN
1	D6	348	ASN
2	E6	44	GLN
2	H6	35	ASN
1	I6	23	GLN
1	I6	27	HIS
1	I6	70	ASN
1	I6	129	GLN
1	I6	141	ASN
1	I6	219	HIS
1	I6	365	HIS
1	I6	377	HIS
1	J6	70	ASN
1	J6	129	GLN
1	J6	207	ASN
1	J6	210	ASN
1	J6	348	ASN
1	K6	23	GLN
1	K6	150	ASN

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Mol	Chain	Res	Type
1	K6	290	ASN
1	K6	374	HIS
1	K6	377	HIS
1	L6	23	GLN
1	L6	26	ASN
1	L6	98	ASN
1	L6	207	ASN
1	L6	211	ASN
1	L6	291	GLN
1	L6	348	ASN
2	M6	44	GLN
2	P6	35	ASN
1	Q6	70	ASN
1	Q6	129	GLN
1	Q6	219	HIS
1	Q6	291	GLN
1	Q6	365	HIS
1	Q6	377	HIS
1	R6	70	ASN
1	R6	129	GLN
1	R6	181	ASN
1	R6	207	ASN
1	R6	210	ASN
1	R6	348	ASN
1	S6	23	GLN
1	S6	141	ASN
1	S6	290	ASN
1	S6	365	HIS
1	S6	377	HIS
1	T6	23	GLN
1	T6	26	ASN
1	T6	98	ASN
1	T6	207	ASN
1	T6	291	GLN
1	T6	348	ASN
2	U6	29	ASN
2	U6	44	GLN
2	X6	35	ASN
1	Y6	23	GLN
1	Y6	27	HIS
1	Y6	70	ASN
1	Y6	129	GLN

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Mol	Chain	Res	Type
1	Y6	219	HIS
1	Y6	291	GLN
1	Y6	365	HIS
1	Y6	377	HIS
1	Z6	70	ASN
1	Z6	129	GLN
1	Z6	207	ASN
1	Z6	210	ASN
1	a6	23	GLN
1	a6	27	HIS
1	a6	150	ASN
1	a6	290	ASN
1	a6	374	HIS
1	a6	377	HIS
1	b6	23	GLN
1	b6	98	ASN
1	b6	207	ASN
1	b6	211	ASN
1	b6	291	GLN
1	b6	348	ASN
2	c6	44	GLN
2	f6	35	ASN
1	g6	70	ASN
1	g6	129	GLN
1	g6	219	HIS
1	g6	291	GLN
1	g6	365	HIS
1	g6	377	HIS
1	h6	70	ASN
1	h6	129	GLN
1	h6	207	ASN
1	h6	210	ASN
1	h6	348	ASN
1	i6	23	GLN
1	i6	141	ASN
1	i6	290	ASN
1	i6	365	HIS
1	i6	377	HIS
1	j6	23	GLN
1	j6	26	ASN
1	j6	98	ASN
1	j6	207	ASN

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Mol	Chain	Res	Type
1	j6	291	GLN
1	j6	348	ASN
2	k6	29	ASN
2	n6	35	ASN
1	C7	70	ASN
1	C7	129	GLN
1	C7	291	GLN
1	C7	365	HIS
1	C7	377	HIS
1	A7	70	ASN
1	A7	129	GLN
1	A7	181	ASN
1	A7	207	ASN
1	A7	210	ASN
1	A7	348	ASN
1	B7	23	GLN
1	B7	141	ASN
1	B7	290	ASN
1	B7	365	HIS
1	B7	377	HIS
1	D7	98	ASN
1	D7	207	ASN
1	D7	211	ASN
1	D7	291	GLN
1	D7	348	ASN
2	E7	29	ASN
2	E7	44	GLN
2	H7	35	ASN
1	I7	23	GLN
1	I7	27	HIS
1	I7	70	ASN
1	I7	141	ASN
1	I7	219	HIS
1	I7	291	GLN
1	I7	365	HIS
1	I7	377	HIS
1	J7	70	ASN
1	J7	129	GLN
1	J7	207	ASN
1	J7	210	ASN
1	J7	348	ASN
1	K7	23	GLN

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Mol	Chain	Res	Type
1	K7	150	ASN
1	K7	290	ASN
1	K7	365	HIS
1	K7	374	HIS
1	K7	377	HIS
1	L7	98	ASN
1	L7	207	ASN
1	L7	291	GLN
1	L7	348	ASN
2	M7	29	ASN
2	M7	44	GLN
2	P7	35	ASN
1	Q7	23	GLN
1	Q7	27	HIS
1	Q7	70	ASN
1	Q7	129	GLN
1	Q7	141	ASN
1	Q7	365	HIS
1	Q7	377	HIS
1	R7	70	ASN
1	R7	129	GLN
1	R7	207	ASN
1	R7	210	ASN
1	S7	23	GLN
1	S7	150	ASN
1	S7	290	ASN
1	S7	365	HIS
1	S7	374	HIS
1	S7	377	HIS
1	T7	23	GLN
1	T7	26	ASN
1	T7	98	ASN
1	T7	207	ASN
1	T7	291	GLN
1	T7	348	ASN
2	U7	44	GLN
2	X7	35	ASN
1	Y7	23	GLN
1	Y7	27	HIS
1	Y7	70	ASN
1	Y7	129	GLN
1	Y7	141	ASN

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Mol	Chain	Res	Type
1	Y7	219	HIS
1	Y7	365	HIS
1	Y7	377	HIS
1	Z7	70	ASN
1	Z7	129	GLN
1	Z7	181	ASN
1	Z7	207	ASN
1	Z7	210	ASN
1	Z7	348	ASN
1	a7	23	GLN
1	a7	150	ASN
1	a7	290	ASN
1	a7	374	HIS
1	a7	377	HIS
1	b7	26	ASN
1	b7	98	ASN
1	b7	207	ASN
1	b7	291	GLN
1	b7	348	ASN
2	c7	44	GLN
2	f7	35	ASN
1	g7	23	GLN
1	g7	27	HIS
1	g7	70	ASN
1	g7	129	GLN
1	g7	141	ASN
1	g7	219	HIS
1	g7	291	GLN
1	g7	365	HIS
1	g7	377	HIS
1	h7	70	ASN
1	h7	129	GLN
1	h7	207	ASN
1	h7	210	ASN
1	h7	348	ASN
1	i7	23	GLN
1	i7	150	ASN
1	i7	290	ASN
1	i7	374	HIS
1	i7	377	HIS
1	j7	23	GLN
1	j7	26	ASN

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Mol	Chain	Res	Type
1	j7	98	ASN
1	j7	207	ASN
1	j7	291	GLN
1	j7	348	ASN
2	k7	29	ASN
2	k7	44	GLN
2	n7	35	ASN
1	C8	23	GLN
1	C8	27	HIS
1	C8	70	ASN
1	C8	129	GLN
1	C8	141	ASN
1	C8	219	HIS
1	C8	291	GLN
1	C8	365	HIS
1	C8	377	HIS
1	A8	70	ASN
1	A8	129	GLN
1	A8	181	ASN
1	A8	207	ASN
1	A8	210	ASN
1	A8	348	ASN
1	B8	23	GLN
1	B8	150	ASN
1	B8	290	ASN
1	B8	374	HIS
1	B8	377	HIS
1	D8	26	ASN
1	D8	98	ASN
1	D8	207	ASN
1	D8	291	GLN
1	D8	348	ASN
2	E8	44	GLN
2	H8	35	ASN
1	I8	23	GLN
1	I8	27	HIS
1	I8	70	ASN
1	I8	129	GLN
1	I8	219	HIS
1	I8	291	GLN
1	I8	365	HIS
1	I8	377	HIS

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Mol	Chain	Res	Type
1	J8	70	ASN
1	J8	129	GLN
1	J8	207	ASN
1	J8	210	ASN
1	J8	348	ASN
1	K8	23	GLN
1	K8	150	ASN
1	K8	290	ASN
1	K8	374	HIS
1	K8	377	HIS
1	L8	26	ASN
1	L8	98	ASN
1	L8	207	ASN
1	L8	291	GLN
1	L8	348	ASN
2	M8	29	ASN
2	M8	44	GLN
2	P8	35	ASN
1	Q8	23	GLN
1	Q8	27	HIS
1	Q8	70	ASN
1	Q8	129	GLN
1	Q8	141	ASN
1	Q8	219	HIS
1	Q8	291	GLN
1	Q8	365	HIS
1	Q8	377	HIS
1	R8	70	ASN
1	R8	129	GLN
1	R8	181	ASN
1	R8	207	ASN
1	R8	210	ASN
1	R8	348	ASN
1	S8	23	GLN
1	S8	150	ASN
1	S8	290	ASN
1	S8	374	HIS
1	S8	377	HIS
1	T8	26	ASN
1	T8	98	ASN
1	T8	207	ASN
1	T8	291	GLN

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Mol	Chain	Res	Type
1	T8	348	ASN
2	X8	35	ASN
1	Y8	23	GLN
1	Y8	27	HIS
1	Y8	70	ASN
1	Y8	129	GLN
1	Y8	141	ASN
1	Y8	365	HIS
1	Y8	377	HIS
1	Z8	70	ASN
1	Z8	129	GLN
1	Z8	207	ASN
1	Z8	210	ASN
1	Z8	348	ASN
1	a8	23	GLN
1	a8	150	ASN
1	a8	290	ASN
1	a8	374	HIS
1	a8	377	HIS
1	b8	23	GLN
1	b8	26	ASN
1	b8	98	ASN
1	b8	207	ASN
1	b8	211	ASN
1	b8	291	GLN
1	b8	348	ASN
2	c8	29	ASN
2	c8	44	GLN
2	f8	35	ASN
1	g8	70	ASN
1	g8	129	GLN
1	g8	219	HIS
1	g8	291	GLN
1	g8	365	HIS
1	g8	377	HIS
1	h8	70	ASN
1	h8	129	GLN
1	h8	181	ASN
1	h8	207	ASN
1	h8	210	ASN
1	i8	23	GLN
1	i8	141	ASN

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Mol	Chain	Res	Type
1	i8	290	ASN
1	i8	365	HIS
1	i8	377	HIS
1	j8	23	GLN
1	j8	26	ASN
1	j8	98	ASN
1	j8	207	ASN
1	j8	211	ASN
1	j8	291	GLN
1	j8	348	ASN
2	k8	29	ASN
2	k8	44	GLN
2	n8	35	ASN
3	A9	23	HIS
3	A9	67	ASN
3	A9	134	ASN
3	A9	149	GLN
3	A9	194	ASN
3	A9	202	ASN
3	A9	225	ASN
3	A9	270	ASN
4	B9	38	GLN
4	B9	41	GLN
4	B9	125	GLN
4	B9	130	HIS
4	B9	144	GLN
5	D9	76	ASN
5	C9	193	GLN
5	C9	275	ASN
5	C9	287	ASN
5	C9	355	GLN
5	C9	433	HIS
5	C9	566	ASN
5	N9	193	GLN
5	N9	287	ASN
5	N9	355	GLN
5	N9	433	HIS
5	N9	566	ASN
5	O9	193	GLN
5	O9	287	ASN
5	O9	433	HIS
5	O9	566	ASN

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Mol	Chain	Res	Type
3	AA	23	HIS
3	AA	33	ASN
3	AA	67	ASN
3	AA	134	ASN
3	AA	149	GLN
3	AA	194	ASN
3	AA	202	ASN
3	AA	225	ASN
3	AA	270	ASN
4	BA	38	GLN
4	BA	41	GLN
4	BA	125	GLN
4	BA	130	HIS
4	BA	144	GLN
5	CA	193	GLN
5	CA	275	ASN
5	CA	287	ASN
5	CA	355	GLN
5	CA	433	HIS
5	CA	566	ASN
5	NA	193	GLN
5	NA	287	ASN
5	NA	355	GLN
5	NA	433	HIS
5	NA	566	ASN
5	OA	193	GLN
5	OA	287	ASN
5	OA	433	HIS
5	OA	566	ASN
3	AB	23	HIS
3	AB	67	ASN
3	AB	134	ASN
3	AB	149	GLN
3	AB	194	ASN
3	AB	202	ASN
3	AB	225	ASN
3	AB	270	ASN
4	BB	38	GLN
4	BB	41	GLN
4	BB	125	GLN
4	BB	130	HIS
4	BB	144	GLN

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Mol	Chain	Res	Type
5	DB	76	ASN
5	CB	193	GLN
5	CB	275	ASN
5	CB	287	ASN
5	CB	355	GLN
5	CB	433	HIS
5	CB	566	ASN
5	NB	193	GLN
5	NB	287	ASN
5	NB	355	GLN
5	NB	433	HIS
5	NB	566	ASN
5	OB	193	GLN
5	OB	287	ASN
5	OB	433	HIS
5	OB	566	ASN
3	AC	23	HIS
3	AC	67	ASN
3	AC	134	ASN
3	AC	149	GLN
3	AC	194	ASN
3	AC	202	ASN
3	AC	225	ASN
3	AC	270	ASN
4	BC	38	GLN
4	BC	41	GLN
4	BC	125	GLN
4	BC	130	HIS
4	BC	144	GLN
5	CC	193	GLN
5	CC	275	ASN
5	CC	287	ASN
5	CC	355	GLN
5	CC	433	HIS
5	CC	566	ASN
5	NC	193	GLN
5	NC	287	ASN
5	NC	355	GLN
5	NC	433	HIS
5	NC	566	ASN
5	OC	193	GLN
5	OC	287	ASN

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Mol	Chain	Res	Type
5	OC	433	HIS
5	OC	566	ASN
1	AD	150	ASN
1	AD	207	ASN
1	AD	304	GLN
1	BD	181	ASN
1	BD	207	ASN
1	BD	269	HIS
1	BD	290	ASN
1	BD	304	GLN
1	BD	306	GLN
1	BD	374	HIS
1	CD	98	ASN
1	CD	143	GLN
1	CD	228	GLN
1	CD	269	HIS
1	CD	377	HIS
1	DD	27	HIS
1	DD	104	ASN
1	DD	123	ASN
1	DD	129	GLN
1	DD	141	ASN
1	DD	143	GLN
1	DD	209	GLN
1	DD	304	GLN
1	KD	51	ASN
1	KD	98	ASN
1	KD	164	ASN
1	KD	211	ASN
1	KD	290	ASN
1	LD	98	ASN
1	LD	150	ASN
1	LD	365	HIS
1	LD	377	HIS
1	LD	389	ASN
2	MD	29	ASN
2	MD	44	GLN
2	ND	6	ASN
1	DE	26	ASN
1	DE	98	ASN
1	DE	207	ASN
1	DE	291	GLN

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Mol	Chain	Res	Type
1	DE	348	ASN
2	EE	44	GLN
1	AE	23	GLN
1	AE	27	HIS
1	AE	70	ASN
1	AE	129	GLN
1	AE	291	GLN
1	AE	365	HIS
1	AE	377	HIS
1	BE	70	ASN
1	BE	98	ASN
1	BE	123	ASN
1	BE	129	GLN
1	BE	207	ASN
1	BE	210	ASN
1	BE	304	GLN
1	CE	23	GLN
1	CE	98	ASN
1	CE	150	ASN
1	CE	290	ASN
1	CE	374	HIS
1	CE	377	HIS
1	FE	23	GLN
1	FE	26	ASN
1	FE	98	ASN
1	FE	150	ASN
1	FE	207	ASN
1	FE	211	ASN
1	FE	291	GLN
1	FE	348	ASN
1	FE	374	HIS
2	JE	35	ASN
1	KE	23	GLN
1	KE	27	HIS
1	KE	70	ASN
1	KE	129	GLN
1	KE	141	ASN
1	KE	219	HIS
1	KE	291	GLN
1	KE	365	HIS
1	KE	377	HIS
1	LE	70	ASN

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Mol	Chain	Res	Type
1	LE	129	GLN
1	LE	207	ASN
1	LE	210	ASN
1	LE	348	ASN
1	ME	23	GLN
1	ME	150	ASN
1	ME	290	ASN
1	ME	374	HIS
1	ME	377	HIS
1	NE	26	ASN
1	NE	98	ASN
1	NE	207	ASN
1	NE	291	GLN
1	NE	348	ASN
2	OE	29	ASN
2	OE	44	GLN
2	RE	35	ASN
1	SE	23	GLN
1	SE	27	HIS
1	SE	70	ASN
1	SE	129	GLN
1	SE	141	ASN
1	SE	219	HIS
1	SE	291	GLN
1	SE	365	HIS
1	SE	377	HIS
1	TE	70	ASN
1	TE	129	GLN
1	TE	207	ASN
1	TE	210	ASN
1	TE	348	ASN
1	UE	23	GLN
1	UE	150	ASN
1	UE	290	ASN
1	UE	374	HIS
1	UE	377	HIS
1	VE	98	ASN
1	VE	207	ASN
1	VE	291	GLN
1	VE	348	ASN
2	WE	44	GLN
2	ZE	35	ASN

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Mol	Chain	Res	Type
1	aE	23	GLN
1	aE	27	HIS
1	aE	70	ASN
1	aE	129	GLN
1	aE	141	ASN
1	aE	365	HIS
1	aE	377	HIS
1	bE	70	ASN
1	bE	129	GLN
1	bE	207	ASN
1	bE	210	ASN
1	cE	23	GLN
1	cE	150	ASN
1	cE	290	ASN
1	cE	374	HIS
1	cE	377	HIS
1	dE	23	GLN
1	dE	98	ASN
1	dE	207	ASN
1	dE	211	ASN
1	dE	291	GLN
1	dE	348	ASN
2	eE	29	ASN
2	eE	44	GLN
2	hE	35	ASN
3	AF	23	HIS
3	AF	67	ASN
3	AF	134	ASN
3	AF	149	GLN
3	AF	194	ASN
3	AF	202	ASN
3	AF	225	ASN
3	AF	270	ASN
4	BF	38	GLN
4	BF	41	GLN
4	BF	125	GLN
4	BF	130	HIS
4	BF	144	GLN
5	CF	193	GLN
5	CF	275	ASN
5	CF	287	ASN
5	CF	355	GLN

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Mol	Chain	Res	Type
5	CF	433	HIS
5	CF	566	ASN
5	NF	193	GLN
5	NF	287	ASN
5	NF	355	GLN
5	NF	433	HIS
5	NF	566	ASN
5	OF	193	GLN
5	OF	287	ASN
5	OF	433	HIS
5	OF	566	ASN
1	CG	23	GLN
1	CG	27	HIS
1	CG	70	ASN
1	CG	129	GLN
1	CG	141	ASN
1	CG	219	HIS
1	CG	291	GLN
1	CG	365	HIS
1	CG	377	HIS
1	AG	70	ASN
1	AG	129	GLN
1	AG	181	ASN
1	AG	207	ASN
1	AG	210	ASN
1	AG	348	ASN
1	BG	23	GLN
1	BG	150	ASN
1	BG	290	ASN
1	BG	374	HIS
1	BG	377	HIS
1	DG	26	ASN
1	DG	98	ASN
1	DG	207	ASN
1	DG	211	ASN
1	DG	291	GLN
1	DG	348	ASN
2	EG	29	ASN
2	HG	35	ASN
1	IG	23	GLN
1	IG	27	HIS
1	IG	70	ASN

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Mol	Chain	Res	Type
1	IG	129	GLN
1	IG	141	ASN
1	IG	219	HIS
1	IG	291	GLN
1	IG	365	HIS
1	IG	377	HIS
1	JG	70	ASN
1	JG	129	GLN
1	JG	207	ASN
1	JG	210	ASN
1	KG	23	GLN
1	KG	150	ASN
1	KG	290	ASN
1	KG	374	HIS
1	KG	377	HIS
1	LG	23	GLN
1	LG	26	ASN
1	LG	98	ASN
1	LG	207	ASN
1	LG	211	ASN
1	LG	291	GLN
1	LG	348	ASN
2	MG	44	GLN
2	PG	35	ASN
1	QG	23	GLN
1	QG	27	HIS
1	QG	70	ASN
1	QG	129	GLN
1	QG	291	GLN
1	QG	365	HIS
1	QG	377	HIS
1	RG	70	ASN
1	RG	129	GLN
1	RG	207	ASN
1	RG	210	ASN
1	RG	348	ASN
1	SG	23	GLN
1	SG	150	ASN
1	SG	290	ASN
1	SG	374	HIS
1	SG	377	HIS
1	TG	23	GLN

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Mol	Chain	Res	Type
1	TG	98	ASN
1	TG	207	ASN
1	TG	291	GLN
1	TG	348	ASN
2	UG	29	ASN
2	XG	35	ASN
1	YG	70	ASN
1	YG	129	GLN
1	YG	219	HIS
1	YG	291	GLN
1	YG	365	HIS
1	YG	377	HIS
1	ZG	70	ASN
1	ZG	129	GLN
1	ZG	207	ASN
1	ZG	210	ASN
1	ZG	348	ASN
1	aG	23	GLN
1	aG	141	ASN
1	aG	290	ASN
1	aG	365	HIS
1	aG	377	HIS
1	bG	23	GLN
1	bG	26	ASN
1	bG	98	ASN
1	bG	207	ASN
1	bG	291	GLN
1	bG	348	ASN
2	cG	44	GLN
2	fG	35	ASN
1	gG	23	GLN
1	gG	27	HIS
1	gG	70	ASN
1	gG	129	GLN
1	gG	141	ASN
1	gG	219	HIS
1	gG	291	GLN
1	gG	365	HIS
1	gG	377	HIS
1	hG	70	ASN
1	hG	129	GLN
1	hG	207	ASN

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Mol	Chain	Res	Type
1	hG	210	ASN
1	hG	348	ASN
1	iG	23	GLN
1	iG	150	ASN
1	iG	290	ASN
1	iG	374	HIS
1	iG	377	HIS
1	jG	23	GLN
1	jG	26	ASN
1	jG	98	ASN
1	jG	207	ASN
1	jG	291	GLN
1	jG	348	ASN
2	kG	29	ASN
2	nG	35	ASN
3	AH	23	HIS
3	AH	67	ASN
3	AH	134	ASN
3	AH	149	GLN
3	AH	194	ASN
3	AH	202	ASN
3	AH	225	ASN
3	AH	270	ASN
4	BH	38	GLN
4	BH	41	GLN
4	BH	125	GLN
4	BH	130	HIS
4	BH	144	GLN
5	CH	193	GLN
5	CH	275	ASN
5	CH	287	ASN
5	CH	355	GLN
5	CH	433	HIS
5	CH	566	ASN
5	NH	193	GLN
5	NH	287	ASN
5	NH	355	GLN
5	NH	433	HIS
5	NH	566	ASN
5	OH	193	GLN
5	OH	287	ASN
5	OH	433	HIS

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Mol	Chain	Res	Type
5	OH	566	ASN
3	AI	23	HIS
3	AI	67	ASN
3	AI	104	GLN
3	AI	134	ASN
3	AI	149	GLN
3	AI	194	ASN
3	AI	202	ASN
3	AI	225	ASN
3	AI	270	ASN
4	BI	38	GLN
4	BI	41	GLN
4	BI	125	GLN
4	BI	130	HIS
4	BI	144	GLN
5	DI	76	ASN
5	CI	193	GLN
5	CI	275	ASN
5	CI	287	ASN
5	CI	355	GLN
5	CI	433	HIS
5	CI	566	ASN
5	NI	193	GLN
5	NI	287	ASN
5	NI	355	GLN
5	NI	433	HIS
5	NI	566	ASN
5	OI	193	GLN
5	OI	287	ASN
5	OI	433	HIS
5	OI	566	ASN
1	AJ	123	ASN
1	AJ	150	ASN
1	AJ	304	GLN
1	AJ	389	ASN
1	AJ	396	GLN
1	BJ	181	ASN
1	BJ	269	HIS
1	BJ	290	ASN
1	BJ	304	GLN
1	BJ	306	GLN
1	BJ	374	HIS

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Mol	Chain	Res	Type
1	CJ	98	ASN
1	CJ	143	GLN
1	CJ	269	HIS
1	CJ	377	HIS
1	DJ	27	HIS
1	DJ	123	ASN
1	DJ	129	GLN
1	DJ	141	ASN
1	DJ	143	GLN
1	DJ	209	GLN
1	DJ	304	GLN
1	KJ	51	ASN
1	KJ	98	ASN
1	KJ	164	ASN
1	KJ	211	ASN
1	KJ	290	ASN
1	KJ	396	GLN
1	LJ	27	HIS
1	LJ	98	ASN
1	LJ	150	ASN
1	LJ	365	HIS
1	LJ	377	HIS
1	LJ	389	ASN
2	MJ	27	ASN
2	MJ	29	ASN
2	MJ	44	GLN
2	NJ	6	ASN
1	AK	150	ASN
1	AK	207	ASN
1	AK	304	GLN
1	BK	181	ASN
1	BK	269	HIS
1	BK	290	ASN
1	BK	304	GLN
1	BK	306	GLN
1	BK	374	HIS
1	CK	98	ASN
1	CK	143	GLN
1	CK	150	ASN
1	CK	377	HIS
1	DK	27	HIS
1	DK	123	ASN

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Mol	Chain	Res	Type
1	DK	129	GLN
1	DK	141	ASN
1	DK	143	GLN
1	DK	209	GLN
1	DK	304	GLN
1	KK	51	ASN
1	KK	98	ASN
1	KK	211	ASN
1	KK	290	ASN
1	KK	396	GLN
1	LK	98	ASN
1	LK	150	ASN
1	LK	365	HIS
1	LK	377	HIS
1	LK	389	ASN
2	MK	29	ASN
2	MK	44	GLN
2	NK	6	ASN
1	CL	23	GLN
1	CL	27	HIS
1	CL	70	ASN
1	CL	141	ASN
1	CL	219	HIS
1	CL	291	GLN
1	CL	365	HIS
1	CL	377	HIS
1	AL	70	ASN
1	AL	129	GLN
1	AL	207	ASN
1	AL	210	ASN
1	AL	348	ASN
1	BL	23	GLN
1	BL	150	ASN
1	BL	290	ASN
1	BL	365	HIS
1	BL	374	HIS
1	BL	377	HIS
1	DL	26	ASN
1	DL	98	ASN
1	DL	207	ASN
1	DL	291	GLN
1	DL	348	ASN

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Mol	Chain	Res	Type
2	EL	29	ASN
2	EL	44	GLN
2	HL	35	ASN
1	IL	23	GLN
1	IL	27	HIS
1	IL	70	ASN
1	IL	98	ASN
1	IL	129	GLN
1	IL	141	ASN
1	IL	219	HIS
1	IL	291	GLN
1	IL	365	HIS
1	IL	377	HIS
1	JL	70	ASN
1	JL	129	GLN
1	JL	207	ASN
1	JL	210	ASN
1	KL	23	GLN
1	KL	150	ASN
1	KL	290	ASN
1	KL	365	HIS
1	KL	374	HIS
1	KL	377	HIS
1	LL	23	GLN
1	LL	98	ASN
1	LL	207	ASN
1	LL	291	GLN
1	LL	348	ASN
2	ML	44	GLN
2	PL	35	ASN
1	QL	23	GLN
1	QL	27	HIS
1	QL	70	ASN
1	QL	129	GLN
1	QL	141	ASN
1	QL	219	HIS
1	QL	291	GLN
1	QL	365	HIS
1	QL	377	HIS
1	RL	70	ASN
1	RL	129	GLN
1	RL	207	ASN

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Mol	Chain	Res	Type
1	RL	210	ASN
1	RL	348	ASN
1	SL	23	GLN
1	SL	150	ASN
1	SL	290	ASN
1	SL	365	HIS
1	SL	374	HIS
1	SL	377	HIS
1	TL	23	GLN
1	TL	26	ASN
1	TL	98	ASN
1	TL	207	ASN
1	TL	291	GLN
1	TL	348	ASN
2	UL	29	ASN
2	UL	44	GLN
2	XL	35	ASN
1	YL	23	GLN
1	YL	27	HIS
1	YL	70	ASN
1	YL	219	HIS
1	YL	291	GLN
1	YL	365	HIS
1	YL	377	HIS
1	ZL	70	ASN
1	ZL	129	GLN
1	ZL	207	ASN
1	ZL	210	ASN
1	aL	23	GLN
1	aL	150	ASN
1	aL	290	ASN
1	aL	374	HIS
1	aL	377	HIS
1	bL	98	ASN
1	bL	207	ASN
1	bL	211	ASN
1	bL	291	GLN
1	bL	348	ASN
2	cL	29	ASN
2	cL	44	GLN
2	fL	35	ASN
1	gL	23	GLN

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Mol	Chain	Res	Type
1	gL	26	ASN
1	gL	98	ASN
1	gL	207	ASN
1	gL	291	GLN
1	gL	348	ASN
2	hL	44	GLN
3	AM	23	HIS
3	AM	67	ASN
3	AM	134	ASN
3	AM	149	GLN
3	AM	194	ASN
3	AM	202	ASN
3	AM	225	ASN
3	AM	270	ASN
4	BM	38	GLN
4	BM	41	GLN
4	BM	125	GLN
4	BM	130	HIS
4	BM	144	GLN
5	DM	76	ASN
5	CM	193	GLN
5	CM	275	ASN
5	CM	287	ASN
5	CM	355	GLN
5	CM	433	HIS
5	CM	566	ASN
5	NM	193	GLN
5	NM	287	ASN
5	NM	355	GLN
5	NM	433	HIS
5	NM	566	ASN
5	OM	193	GLN
5	OM	287	ASN
5	OM	433	HIS
5	OM	566	ASN
3	AN	23	HIS
3	AN	67	ASN
3	AN	134	ASN
3	AN	149	GLN
3	AN	202	ASN
3	AN	225	ASN
3	AN	270	ASN

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Mol	Chain	Res	Type
4	BN	38	GLN
4	BN	41	GLN
4	BN	125	GLN
4	BN	130	HIS
4	BN	144	GLN
5	DN	76	ASN
5	CN	193	GLN
5	CN	275	ASN
5	CN	287	ASN
5	CN	355	GLN
5	CN	433	HIS
5	CN	566	ASN
5	NN	193	GLN
5	NN	287	ASN
5	NN	355	GLN
5	NN	433	HIS
5	NN	566	ASN
5	ON	193	GLN
5	ON	287	ASN
5	ON	433	HIS
5	ON	566	ASN
3	AO	23	HIS
3	AO	67	ASN
3	AO	134	ASN
3	AO	149	GLN
3	AO	194	ASN
3	AO	202	ASN
3	AO	225	ASN
3	AO	270	ASN
4	BO	38	GLN
4	BO	41	GLN
4	BO	123	GLN
4	BO	125	GLN
4	BO	130	HIS
4	BO	144	GLN
5	CO	193	GLN
5	CO	275	ASN
5	CO	287	ASN
5	CO	355	GLN
5	CO	433	HIS
5	CO	566	ASN
5	NO	193	GLN

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Mol	Chain	Res	Type
5	NO	287	ASN
5	NO	355	GLN
5	NO	433	HIS
5	NO	566	ASN
5	OO	193	GLN
5	OO	287	ASN
5	OO	433	HIS
5	OO	566	ASN
1	AP	150	ASN
1	AP	207	ASN
1	AP	304	GLN
1	BP	181	ASN
1	BP	269	HIS
1	BP	304	GLN
1	BP	306	GLN
1	BP	374	HIS
1	CP	98	ASN
1	CP	143	GLN
1	CP	269	HIS
1	CP	377	HIS
1	DP	27	HIS
1	DP	123	ASN
1	DP	129	GLN
1	DP	141	ASN
1	DP	143	GLN
1	DP	209	GLN
1	DP	304	GLN
1	KP	51	ASN
1	KP	98	ASN
1	KP	211	ASN
1	KP	290	ASN
1	LP	98	ASN
1	LP	150	ASN
1	LP	365	HIS
1	LP	377	HIS
1	LP	389	ASN
2	MP	29	ASN
2	MP	51	GLN
2	NP	6	ASN
1	CQ	23	GLN
1	CQ	27	HIS
1	CQ	70	ASN

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Mol	Chain	Res	Type
1	CQ	129	GLN
1	CQ	141	ASN
1	CQ	219	HIS
1	CQ	291	GLN
1	CQ	365	HIS
1	CQ	377	HIS
1	AQ	70	ASN
1	AQ	129	GLN
1	AQ	207	ASN
1	AQ	210	ASN
1	AQ	348	ASN
1	BQ	23	GLN
1	BQ	27	HIS
1	BQ	150	ASN
1	BQ	290	ASN
1	BQ	374	HIS
1	BQ	377	HIS
1	DQ	26	ASN
1	DQ	98	ASN
1	DQ	207	ASN
1	DQ	291	GLN
1	DQ	348	ASN
2	EQ	29	ASN
2	EQ	44	GLN
2	HQ	35	ASN
1	IQ	23	GLN
1	IQ	27	HIS
1	IQ	70	ASN
1	IQ	129	GLN
1	IQ	141	ASN
1	IQ	219	HIS
1	IQ	291	GLN
1	IQ	365	HIS
1	IQ	377	HIS
1	JQ	70	ASN
1	JQ	129	GLN
1	JQ	207	ASN
1	JQ	210	ASN
1	JQ	348	ASN
1	KQ	23	GLN
1	KQ	150	ASN
1	KQ	290	ASN

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Mol	Chain	Res	Type
1	KQ	365	HIS
1	KQ	374	HIS
1	KQ	377	HIS
1	LQ	26	ASN
1	LQ	98	ASN
1	LQ	207	ASN
1	LQ	211	ASN
1	LQ	291	GLN
1	LQ	348	ASN
2	MQ	44	GLN
2	PQ	35	ASN
1	QQ	23	GLN
1	QQ	27	HIS
1	QQ	70	ASN
1	QQ	129	GLN
1	QQ	141	ASN
1	QQ	219	HIS
1	QQ	291	GLN
1	QQ	365	HIS
1	QQ	377	HIS
1	RQ	70	ASN
1	RQ	129	GLN
1	RQ	207	ASN
1	RQ	210	ASN
1	RQ	348	ASN
1	SQ	23	GLN
1	SQ	150	ASN
1	SQ	290	ASN
1	SQ	374	HIS
1	SQ	377	HIS
1	TQ	26	ASN
1	TQ	98	ASN
1	TQ	207	ASN
1	TQ	291	GLN
1	TQ	348	ASN
2	UQ	29	ASN
2	UQ	44	GLN
2	XQ	35	ASN
1	YQ	26	ASN
1	YQ	98	ASN
1	YQ	207	ASN
1	YQ	211	ASN

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Mol	Chain	Res	Type
1	YQ	291	GLN
1	YQ	348	ASN
2	ZQ	29	ASN
2	ZQ	44	GLN
1	bQ	23	GLN
1	bQ	27	HIS
1	bQ	70	ASN
1	bQ	129	GLN
1	bQ	219	HIS
1	bQ	291	GLN
1	bQ	365	HIS
1	bQ	377	HIS
1	cQ	70	ASN
1	cQ	129	GLN
1	cQ	207	ASN
1	cQ	210	ASN
1	cQ	348	ASN
1	dQ	23	GLN
1	dQ	150	ASN
1	dQ	290	ASN
1	dQ	374	HIS
1	dQ	377	HIS
1	eQ	23	GLN
1	eQ	98	ASN
1	eQ	207	ASN
1	eQ	291	GLN
1	eQ	348	ASN
2	fQ	29	ASN
2	iQ	35	ASN
1	CR	23	GLN
1	CR	27	HIS
1	CR	70	ASN
1	CR	219	HIS
1	CR	291	GLN
1	CR	365	HIS
1	CR	377	HIS
1	AR	70	ASN
1	AR	129	GLN
1	AR	207	ASN
1	AR	210	ASN
1	AR	348	ASN
1	BR	23	GLN

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Mol	Chain	Res	Type
1	BR	150	ASN
1	BR	290	ASN
1	BR	365	HIS
1	BR	374	HIS
1	BR	377	HIS
1	DR	26	ASN
1	DR	98	ASN
1	DR	207	ASN
1	DR	211	ASN
1	DR	291	GLN
1	DR	348	ASN
2	ER	44	GLN
2	HR	35	ASN
1	IR	23	GLN
1	IR	27	HIS
1	IR	70	ASN
1	IR	129	GLN
1	IR	219	HIS
1	IR	291	GLN
1	IR	365	HIS
1	IR	377	HIS
1	JR	70	ASN
1	JR	129	GLN
1	JR	207	ASN
1	JR	210	ASN
1	JR	348	ASN
1	KR	150	ASN
1	KR	290	ASN
1	KR	374	HIS
1	KR	377	HIS
1	LR	23	GLN
1	LR	98	ASN
1	LR	207	ASN
1	LR	291	GLN
1	LR	348	ASN
2	MR	29	ASN
2	PR	35	ASN
1	QR	23	GLN
1	QR	27	HIS
1	QR	70	ASN
1	QR	129	GLN
1	QR	141	ASN

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Mol	Chain	Res	Type
1	QR	219	HIS
1	QR	291	GLN
1	QR	365	HIS
1	QR	377	HIS
1	RR	70	ASN
1	RR	129	GLN
1	RR	181	ASN
1	RR	207	ASN
1	RR	210	ASN
1	RR	348	ASN
1	SR	23	GLN
1	SR	150	ASN
1	SR	290	ASN
1	SR	374	HIS
1	SR	377	HIS
1	TR	26	ASN
1	TR	98	ASN
1	TR	207	ASN
1	TR	291	GLN
1	TR	348	ASN
2	UR	44	GLN
2	XR	35	ASN
1	YR	23	GLN
1	YR	27	HIS
1	YR	70	ASN
1	YR	129	GLN
1	YR	141	ASN
1	YR	219	HIS
1	YR	291	GLN
1	YR	365	HIS
1	YR	377	HIS
1	ZR	70	ASN
1	ZR	129	GLN
1	ZR	207	ASN
1	ZR	210	ASN
1	ZR	348	ASN
1	aR	23	GLN
1	aR	27	HIS
1	aR	150	ASN
1	aR	290	ASN
1	aR	374	HIS
1	aR	377	HIS

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Mol	Chain	Res	Type
1	bR	98	ASN
1	bR	207	ASN
1	bR	291	GLN
1	bR	348	ASN
2	cR	29	ASN
2	cR	44	GLN
2	fR	35	ASN
1	gR	23	GLN
1	gR	27	HIS
1	gR	70	ASN
1	gR	129	GLN
1	gR	141	ASN
1	gR	219	HIS
1	gR	365	HIS
1	gR	377	HIS
1	hR	70	ASN
1	hR	98	ASN
1	hR	123	ASN
1	hR	129	GLN
1	hR	207	ASN
1	hR	210	ASN
1	hR	304	GLN
1	hR	348	ASN
1	iR	23	GLN
1	iR	98	ASN
1	iR	150	ASN
1	iR	290	ASN
1	iR	374	HIS
1	iR	377	HIS
1	jR	23	GLN
1	jR	26	ASN
1	jR	98	ASN
1	jR	207	ASN
1	jR	211	ASN
1	jR	291	GLN
1	jR	348	ASN
1	jR	374	HIS
2	mR	35	ASN
1	AS	269	HIS
1	AS	290	ASN
1	AS	304	GLN
1	AS	306	GLN

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Mol	Chain	Res	Type
1	AS	374	HIS
1	BS	98	ASN
1	BS	143	GLN
1	BS	269	HIS
1	BS	377	HIS
1	CS	27	HIS
1	CS	123	ASN
1	CS	129	GLN
1	CS	141	ASN
1	CS	143	GLN
1	CS	209	GLN
1	CS	304	GLN
1	IS	150	ASN
1	IS	304	GLN
1	JS	51	ASN
1	JS	98	ASN
1	JS	164	ASN
1	JS	211	ASN
1	JS	290	ASN
1	JS	396	GLN
1	KS	98	ASN
1	KS	150	ASN
1	KS	365	HIS
1	KS	377	HIS
1	KS	389	ASN
2	LS	29	ASN
2	LS	44	GLN
2	LS	51	GLN
2	MS	6	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

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)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	R1	1
1	Y1	1
1	g1	1
1	J6	1
1	R6	1
1	A7	1
1	J7	1
1	R7	1
1	AG	1
1	hG	1
1	AL	1
1	JL	1
1	RL	1
1	ZL	1
1	AQ	1
1	RQ	1
1	cQ	1
1	RR	1
1	ZR	1
1	hR	1
1	A1	1
1	J1	1
1	A3	1
1	J3	1
1	R3	1
1	A4	1
1	J4	1
1	R4	1
1	Y4	1
1	g4	1

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Mol	Chain	Number of breaks
1	A6	1
1	Z6	1
1	h6	1
1	Z7	1
1	h7	1
1	A8	1
1	J8	1
1	R8	1
1	Z8	1
1	h8	1
1	BE	1
1	LE	1
1	TE	1
1	bE	1
1	JG	1
1	RG	1
1	ZG	1
1	JQ	1
1	AR	1
1	JR	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	R1	20:SER	C	21:ALA	N	3.93
1	Y1	20:SER	C	21:ALA	N	3.93
1	g1	20:SER	C	21:ALA	N	3.93
1	J6	20:SER	C	21:ALA	N	3.93
1	R6	20:SER	C	21:ALA	N	3.93
1	A7	20:SER	C	21:ALA	N	3.93
1	J7	20:SER	C	21:ALA	N	3.93
1	R7	20:SER	C	21:ALA	N	3.93
1	AG	20:SER	C	21:ALA	N	3.93
1	hG	20:SER	C	21:ALA	N	3.93
1	AL	20:SER	C	21:ALA	N	3.93
1	JL	20:SER	C	21:ALA	N	3.93
1	RL	20:SER	C	21:ALA	N	3.93
1	ZL	20:SER	C	21:ALA	N	3.93
1	AQ	20:SER	C	21:ALA	N	3.93
1	RQ	20:SER	C	21:ALA	N	3.93
1	cQ	20:SER	C	21:ALA	N	3.93
1	RR	20:SER	C	21:ALA	N	3.93
1	ZR	20:SER	C	21:ALA	N	3.93

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	hR	20:SER	C	21:ALA	N	3.93
1	A1	20:SER	C	21:ALA	N	3.92
1	J1	20:SER	C	21:ALA	N	3.92
1	A3	20:SER	C	21:ALA	N	3.92
1	J3	20:SER	C	21:ALA	N	3.92
1	R3	20:SER	C	21:ALA	N	3.92
1	A4	20:SER	C	21:ALA	N	3.92
1	J4	20:SER	C	21:ALA	N	3.92
1	R4	20:SER	C	21:ALA	N	3.92
1	Y4	20:SER	C	21:ALA	N	3.92
1	g4	20:SER	C	21:ALA	N	3.92
1	A6	20:SER	C	21:ALA	N	3.92
1	Z6	20:SER	C	21:ALA	N	3.92
1	h6	20:SER	C	21:ALA	N	3.92
1	Z7	20:SER	C	21:ALA	N	3.92
1	h7	20:SER	C	21:ALA	N	3.92
1	A8	20:SER	C	21:ALA	N	3.92
1	J8	20:SER	C	21:ALA	N	3.92
1	R8	20:SER	C	21:ALA	N	3.92
1	Z8	20:SER	C	21:ALA	N	3.92
1	h8	20:SER	C	21:ALA	N	3.92
1	BE	20:SER	C	21:ALA	N	3.92
1	LE	20:SER	C	21:ALA	N	3.92
1	TE	20:SER	C	21:ALA	N	3.92
1	bE	20:SER	C	21:ALA	N	3.92
1	JG	20:SER	C	21:ALA	N	3.92
1	RG	20:SER	C	21:ALA	N	3.92
1	ZG	20:SER	C	21:ALA	N	3.92
1	JQ	20:SER	C	21:ALA	N	3.92
1	AR	20:SER	C	21:ALA	N	3.92
1	JR	20:SER	C	21:ALA	N	3.92

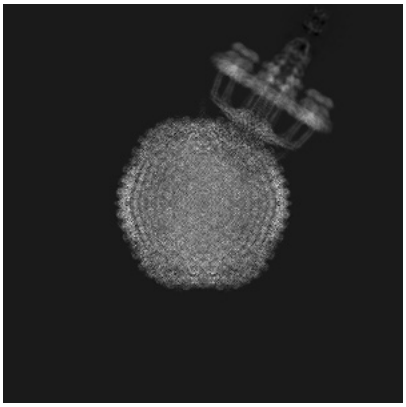
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-4459. These allow visual inspection of the internal detail of the map and identification of artifacts.

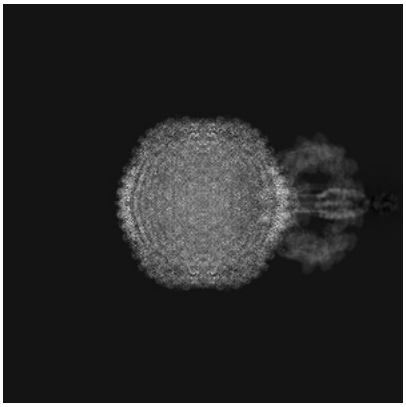
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

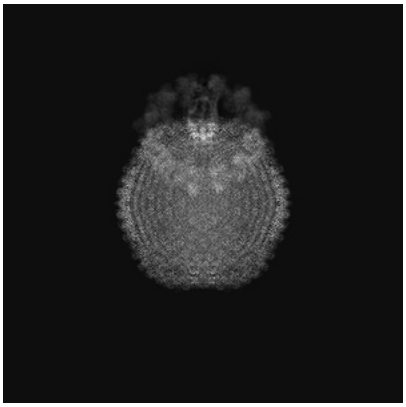
6.1.1 Primary map



X



Y

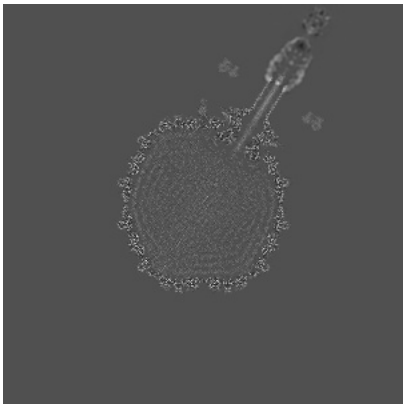


Z

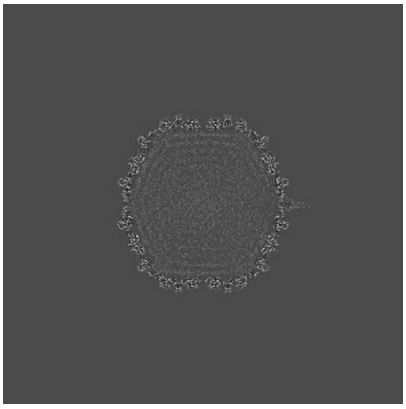
The images above show the map projected in three orthogonal directions.

6.2 Central slices

6.2.1 Primary map



X Index: 500



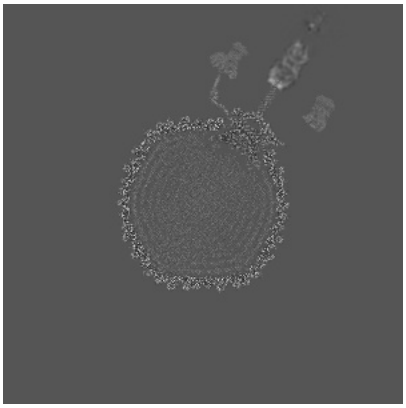
Y Index: 500

Z Index: 500

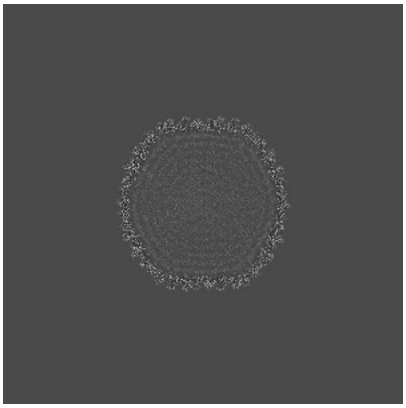
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

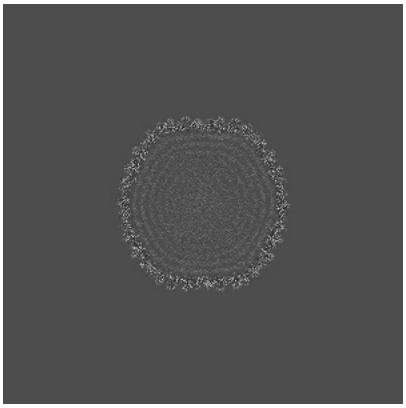
6.3.1 Primary map



X Index: 476



Y Index: 474

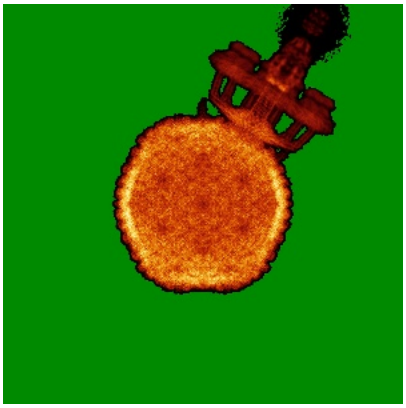


Z Index: 474

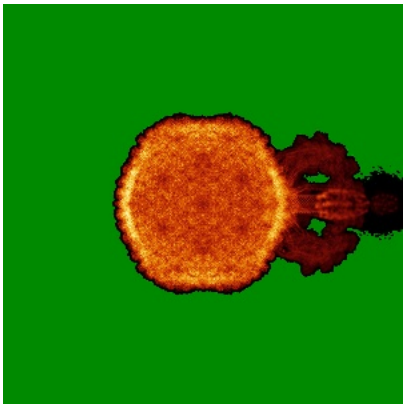
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

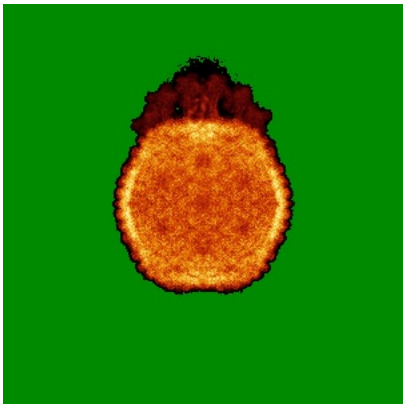
6.4.1 Primary map



X



Y

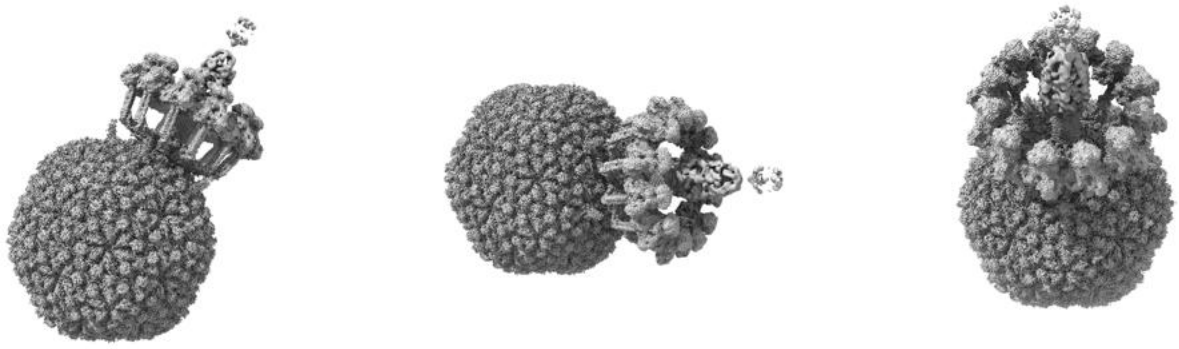


Z

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



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.025. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

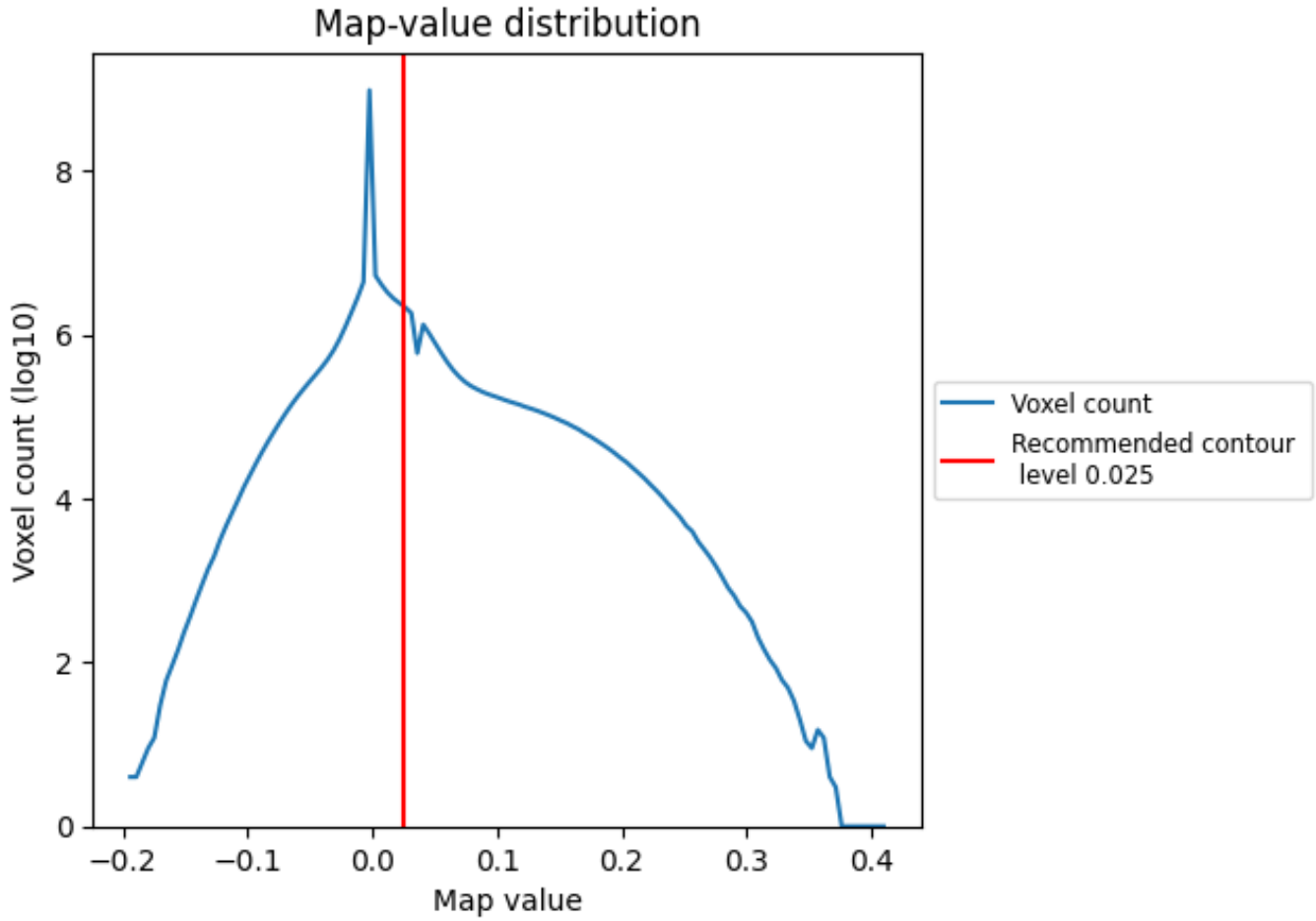
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

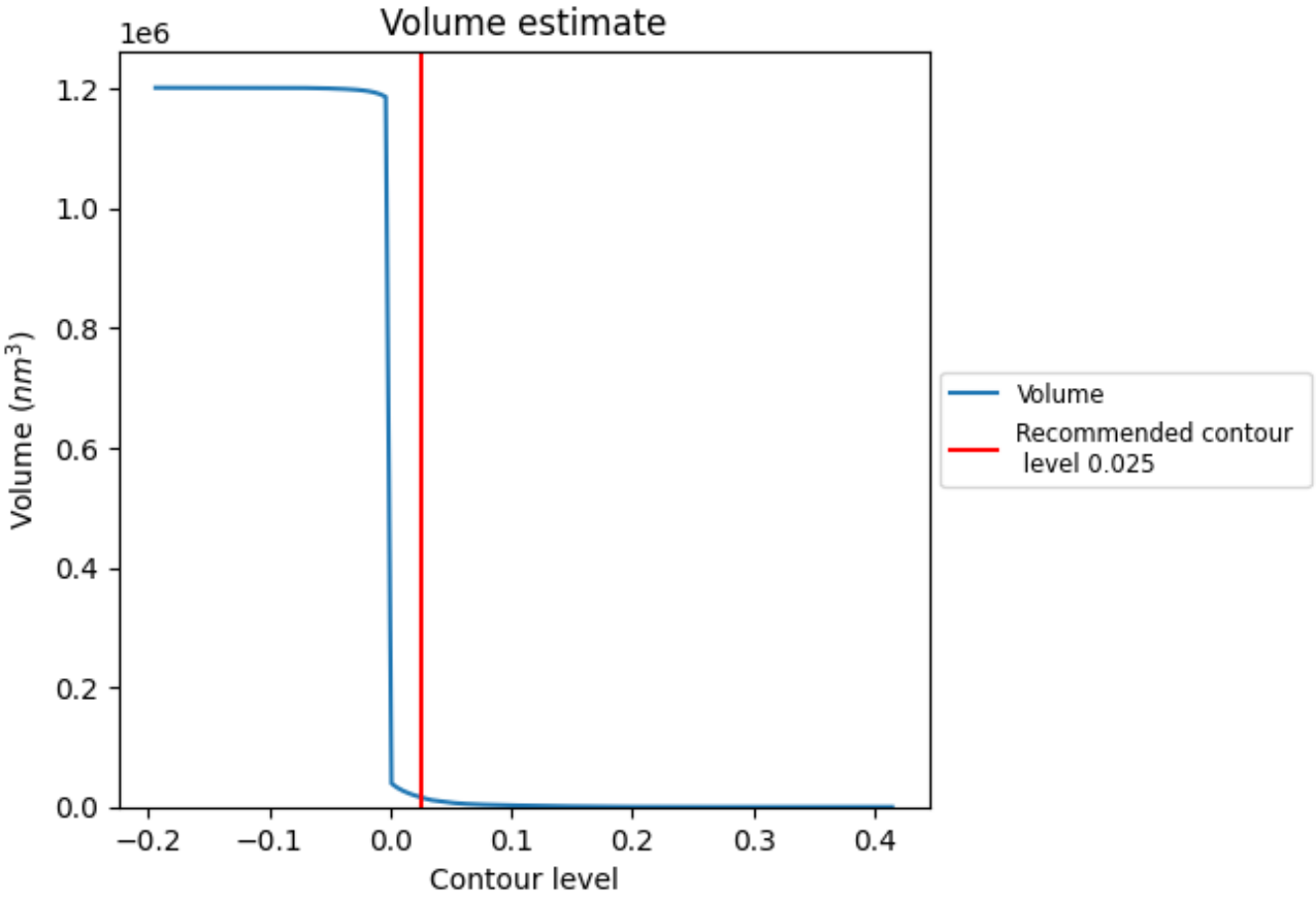
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

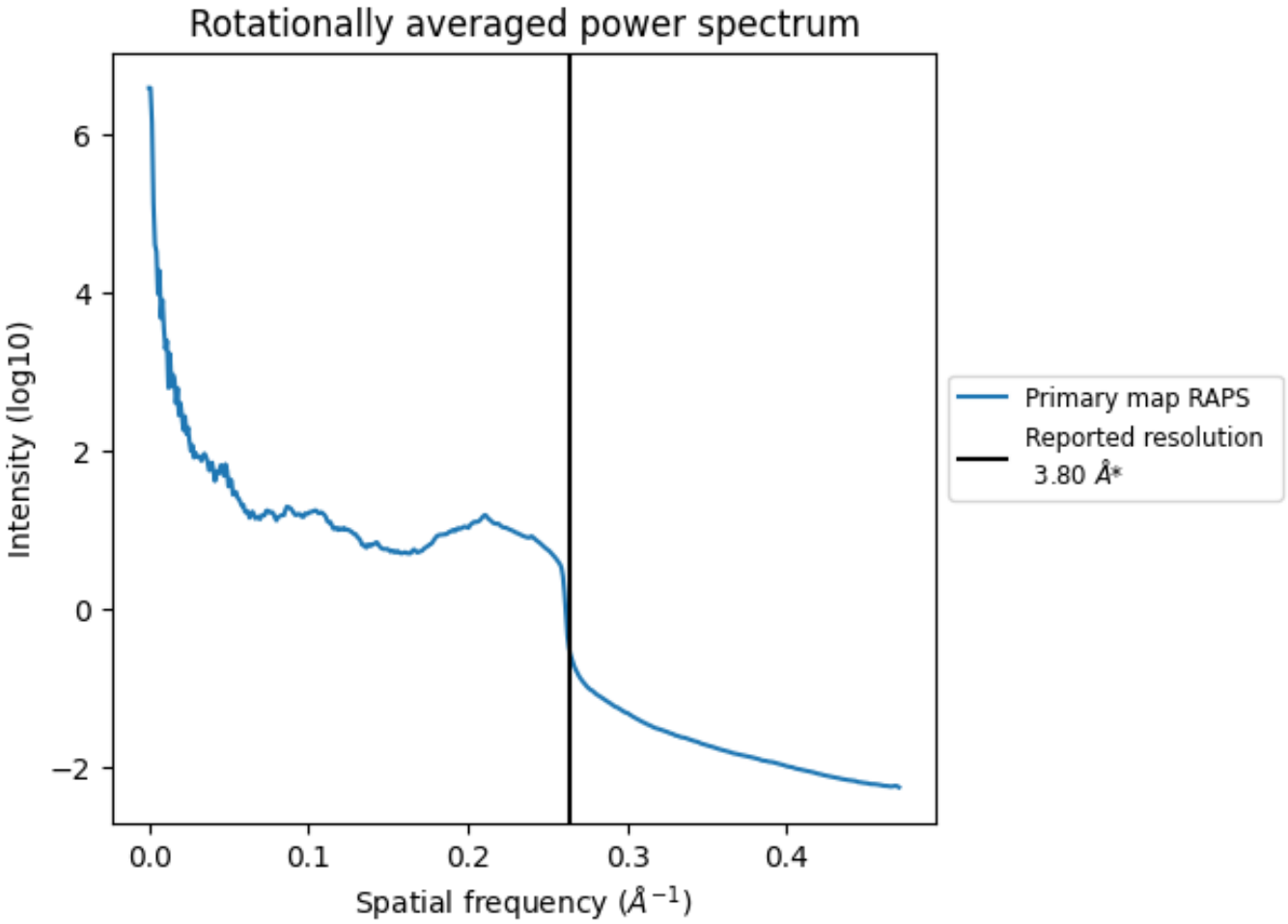
7.2 Volume estimate



The volume at the recommended contour level is 16235 nm^3; this corresponds to an approximate mass of 14666 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 (i)



*Reported resolution corresponds to spatial frequency of 0.263 $Å^{-1}$

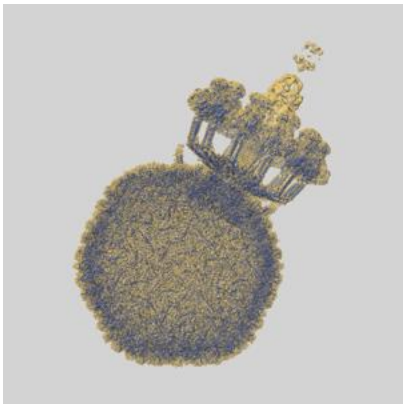
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

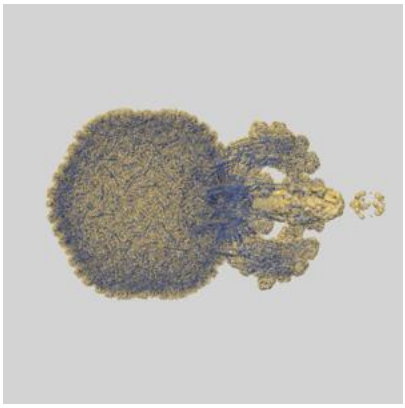
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-4459 and PDB model 6Q3G. Per-residue inclusion information can be found in section 3 on page 63.

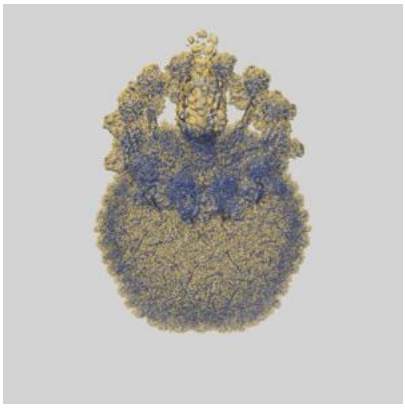
9.1 Map-model overlay



X



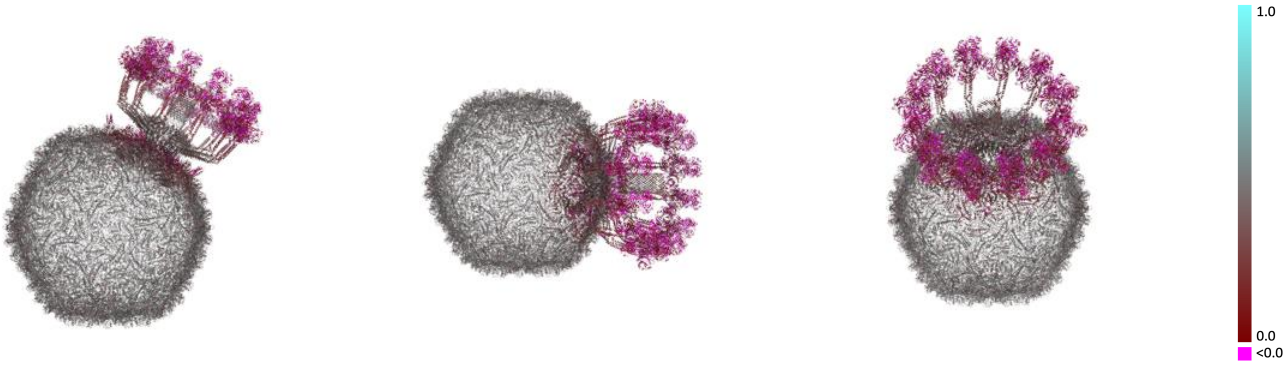
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.025 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



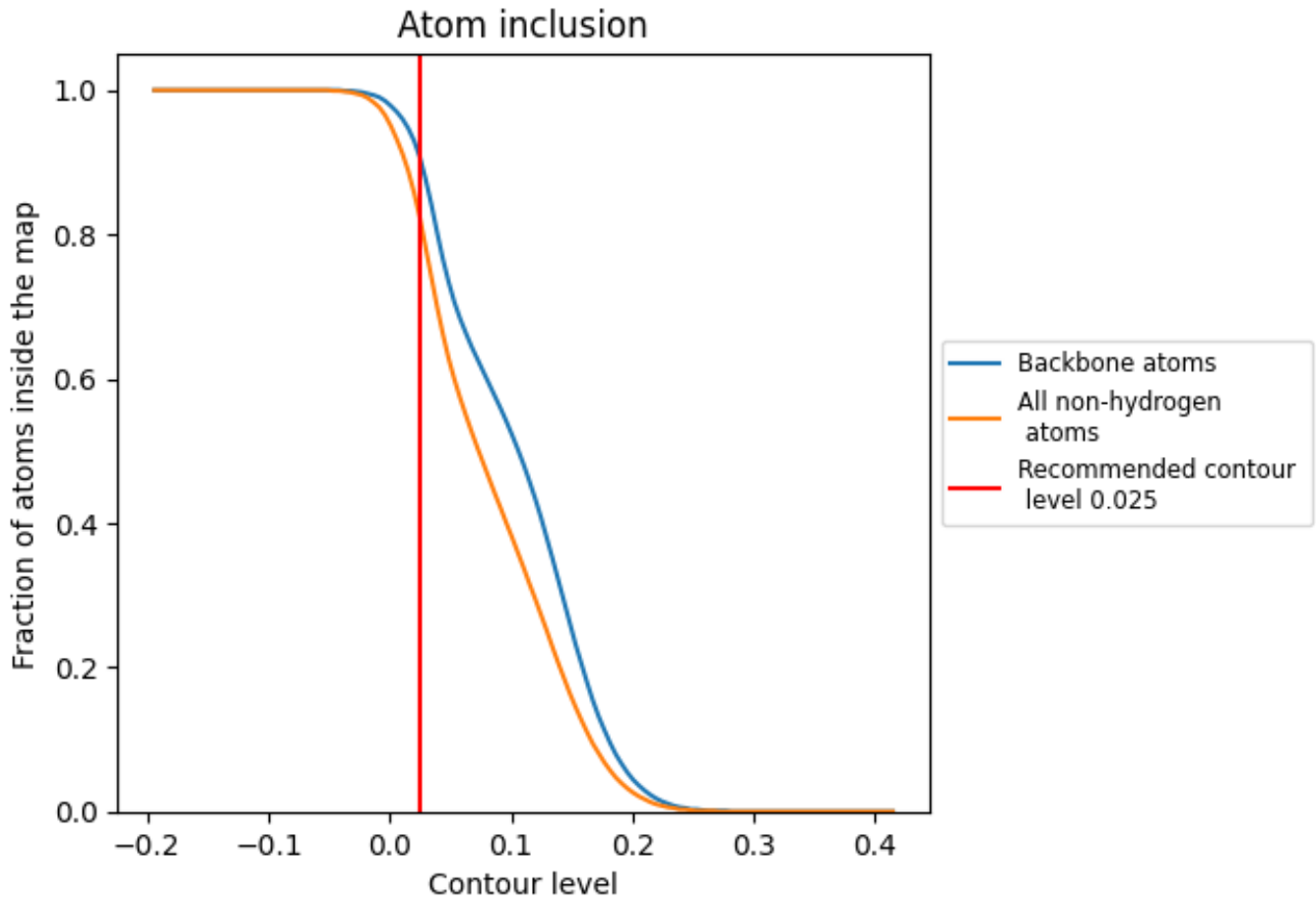
X Y Z

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

This section was not generated.

9.4 Atom inclusion (i)



At the recommended contour level, 91% of all backbone atoms, 82% 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 (0.025) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8220	0.3690
A1	0.8570	0.4440
A2	0.7710	0.3990
A3	0.8740	0.4520
A4	0.8660	0.4550
A5	0.7550	0.3590
A6	0.8690	0.4530
A7	0.8560	0.4470
A8	0.8700	0.4550
A9	0.7760	0.4060
AA	0.7760	0.4030
AB	0.7660	0.3890
AC	0.7700	0.3940
AD	0.5800	0.1770
AE	0.8670	0.4510
AF	0.7590	0.3790
AG	0.8670	0.4480
AH	0.7640	0.3830
AI	0.7460	0.3550
AJ	0.5850	0.1710
AK	0.5940	0.1840
AL	0.8670	0.4500
AM	0.7530	0.3660
AN	0.7610	0.3700
AO	0.7470	0.3590
AP	0.5910	0.1660
AQ	0.8700	0.4550
AR	0.8720	0.4480
AS	0.8430	0.3970
B1	0.8670	0.4540
B2	0.8640	0.3980
B3	0.8730	0.4570
B4	0.8760	0.4600
B5	0.8370	0.3630
B6	0.8790	0.4560

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Chain	Atom inclusion	Q-score
B7	0.8760	0.4600
B8	0.8790	0.4600
B9	0.8600	0.3860
BA	0.8490	0.3730
BB	0.8690	0.4010
BC	0.8400	0.3610
BD	0.8450	0.4000
BE	0.8560	0.4430
BF	0.8660	0.4010
BG	0.8740	0.4570
BH	0.8370	0.3570
BI	0.8440	0.3720
BJ	0.8420	0.3960
BK	0.8420	0.4000
BL	0.8770	0.4560
BM	0.8560	0.3940
BN	0.8370	0.3550
BO	0.8510	0.3830
BP	0.8440	0.3960
BQ	0.8820	0.4580
BR	0.8760	0.4560
BS	0.8480	0.3920
C1	0.8680	0.4520
C2	0.7050	0.0840
C3	0.8730	0.4570
C4	0.8700	0.4560
C5	0.6950	0.0820
C6	0.8700	0.4530
C7	0.8680	0.4460
C8	0.8700	0.4570
C9	0.7120	0.0890
CA	0.7160	0.0910
CB	0.6920	0.0750
CC	0.7130	0.0900
CD	0.8480	0.3940
CE	0.8720	0.4560
CF	0.6910	0.0730
CG	0.8810	0.4570
CH	0.6980	0.0860
CI	0.6830	0.0780
CJ	0.8480	0.3920
CK	0.8500	0.3930

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Chain	Atom inclusion	Q-score
CL	0.8700	0.4550
CM	0.6880	0.0720
CN	0.7010	0.0860
CO	0.6790	0.0740
CP	0.8530	0.3920
CQ	0.8660	0.4550
CR	0.8830	0.4580
CS	0.8050	0.3440
D1	0.8730	0.4490
D2	0.8720	0.3530
D3	0.8630	0.4410
D4	0.8700	0.4440
D5	0.8430	0.3220
D6	0.8670	0.4410
D7	0.8580	0.4380
D8	0.8650	0.4420
D9	0.8710	0.3550
DA	0.8680	0.3530
DB	0.8700	0.3500
DC	0.8570	0.3370
DD	0.8070	0.3480
DE	0.8630	0.4370
DF	0.8680	0.3450
DG	0.8770	0.4480
DH	0.8490	0.3250
DI	0.8470	0.3250
DJ	0.8080	0.3400
DK	0.8040	0.3450
DL	0.8610	0.4420
DM	0.8650	0.3370
DN	0.8420	0.3220
DO	0.8500	0.3310
DP	0.8070	0.3350
DQ	0.8700	0.4430
DR	0.8720	0.4460
DS	0.7410	0.3060
E1	0.7710	0.3560
E2	0.8630	0.3380
E3	0.7560	0.3630
E4	0.7780	0.3590
E5	0.8280	0.3060
E6	0.7640	0.3620

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Chain	Atom inclusion	Q-score
E7	0.7780	0.3690
E8	0.7640	0.3620
E9	0.8540	0.3370
EA	0.8440	0.3300
EB	0.8650	0.3350
EC	0.8450	0.3220
ED	0.7310	0.3060
EE	0.7750	0.3510
EF	0.8560	0.3300
EG	0.7800	0.3630
EH	0.8310	0.3100
EI	0.8360	0.3090
EJ	0.7410	0.3010
EK	0.7220	0.3090
EL	0.7520	0.3620
EM	0.8530	0.3220
EN	0.8330	0.3050
EO	0.8440	0.3160
EP	0.7310	0.3000
EQ	0.7660	0.3620
ER	0.7710	0.3610
ES	0.6990	0.2600
F1	0.7520	0.3540
F2	0.8680	0.3470
F3	0.7730	0.3630
F4	0.7660	0.3470
F5	0.8470	0.3290
F6	0.7660	0.3570
F7	0.7590	0.3590
F8	0.7660	0.3580
F9	0.8670	0.3500
FA	0.8660	0.3510
FB	0.8600	0.3450
FC	0.8610	0.3470
FD	0.6990	0.2550
FE	0.8730	0.4370
FF	0.8590	0.3410
FG	0.7630	0.3500
FH	0.8530	0.3400
FI	0.8420	0.3280
FJ	0.6920	0.2540
FK	0.7150	0.2550

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Chain	Atom inclusion	Q-score
FL	0.7750	0.3640
FM	0.8590	0.3350
FN	0.8370	0.3320
FO	0.8470	0.3310
FP	0.7080	0.2510
FQ	0.7590	0.3590
FR	0.7700	0.3470
FS	0.5720	0.1930
G1	0.7180	0.3150
G2	0.7000	0.3030
G3	0.6900	0.3300
G4	0.6850	0.3090
G5	0.7780	0.3100
G6	0.6950	0.3000
G7	0.6950	0.3300
G8	0.6950	0.3010
G9	0.7000	0.3010
GA	0.7110	0.3000
GB	0.7330	0.2900
GC	0.7440	0.2990
GD	0.5380	0.1790
GE	0.7140	0.3370
GF	0.6890	0.2920
GG	0.7000	0.3360
GH	0.7110	0.3160
GI	0.7330	0.3070
GJ	0.5720	0.1660
GK	0.5080	0.1790
GL	0.6810	0.3290
GM	0.7330	0.2870
GN	0.7330	0.3170
GO	0.7330	0.2990
GP	0.5640	0.1630
GQ	0.6850	0.3040
GR	0.6950	0.3350
GS	0.6790	0.2690
H1	0.7490	0.3650
H2	0.8220	0.3250
H3	0.7770	0.3640
H4	0.7580	0.3800
H5	0.7560	0.3170
H6	0.7560	0.3650

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Chain	Atom inclusion	Q-score
H7	0.7490	0.3510
H8	0.7440	0.3640
H9	0.8220	0.3280
HA	0.8110	0.3290
HB	0.8000	0.3200
HC	0.8000	0.3220
HD	0.6840	0.2710
HE	0.7470	0.3500
HF	0.7780	0.2980
HG	0.7680	0.3560
HH	0.8000	0.3220
HI	0.7440	0.3000
HJ	0.6790	0.2680
HK	0.6910	0.2640
HL	0.7820	0.3580
HM	0.7670	0.3000
HN	0.7670	0.3130
HO	0.7560	0.2860
HP	0.6820	0.2680
HQ	0.7530	0.3700
HR	0.7630	0.3560
HS	0.6110	0.1800
I1	0.8680	0.4550
I2	0.7330	0.2930
I3	0.8700	0.4540
I4	0.8660	0.4550
I5	0.7000	0.3030
I6	0.8730	0.4550
I7	0.8760	0.4560
I8	0.8850	0.4570
I9	0.7750	0.3030
IA	0.7330	0.3120
IB	0.7080	0.2740
IC	0.7500	0.3130
ID	0.5960	0.1860
IE	0.7230	0.3290
IF	0.6250	0.2590
IG	0.8650	0.4570
IH	0.7500	0.3080
II	0.6500	0.2820
IJ	0.6110	0.1740
IK	0.6150	0.1820

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Chain	Atom inclusion	Q-score
IL	0.8650	0.4530
IM	0.6250	0.2610
IN	0.6920	0.3010
IO	0.6250	0.2700
IP	0.6070	0.1700
IQ	0.8750	0.4570
IR	0.8720	0.4540
IS	0.5910	0.1820
J1	0.8670	0.4450
J2	0.9330	0.3680
J3	0.8720	0.4510
J4	0.8650	0.4470
J5	0.8580	0.3480
J6	0.8680	0.4530
J7	0.8740	0.4520
J8	0.8710	0.4500
J9	0.9420	0.3850
JA	0.9250	0.3770
JB	0.9330	0.3420
JC	0.9000	0.3690
JE	0.7720	0.3710
JF	0.9000	0.3290
JG	0.8690	0.4560
JH	0.9000	0.3640
JI	0.8580	0.3360
JL	0.8690	0.4540
JM	0.8920	0.3220
JN	0.8500	0.3500
JO	0.8920	0.3200
JQ	0.8750	0.4540
JR	0.8750	0.4520
JS	0.6310	0.2040
K1	0.8730	0.4540
K2	0.9290	0.3680
K3	0.8720	0.4570
K4	0.8710	0.4540
K5	0.8480	0.3520
K6	0.8770	0.4610
K7	0.8690	0.4590
K8	0.8740	0.4550
K9	0.9200	0.3850
KA	0.9200	0.3940

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Chain	Atom inclusion	Q-score
KB	0.9020	0.3450
KC	0.9020	0.3910
KD	0.6310	0.2000
KE	0.8710	0.4570
KF	0.8840	0.3350
KG	0.8790	0.4590
KH	0.8840	0.3650
KI	0.8390	0.3330
KJ	0.6350	0.1950
KK	0.6330	0.2000
KL	0.8790	0.4580
KM	0.8480	0.3230
KN	0.8660	0.3590
KO	0.8300	0.3260
KP	0.6360	0.1900
KQ	0.8690	0.4590
KR	0.8800	0.4580
KS	0.7570	0.2690
L1	0.8720	0.4480
L2	0.9000	0.3960
L3	0.8630	0.4410
L4	0.8720	0.4490
L5	0.8920	0.3850
L6	0.8740	0.4480
L7	0.8760	0.4480
L8	0.8740	0.4470
L9	0.9170	0.4100
LA	0.9080	0.4130
LB	0.9000	0.3830
LC	0.9170	0.4150
LD	0.7530	0.2720
LE	0.8700	0.4540
LF	0.8920	0.3750
LG	0.8650	0.4410
LH	0.9000	0.4040
LI	0.8670	0.3760
LJ	0.7570	0.2650
LK	0.7590	0.2680
LL	0.8660	0.4420
LM	0.9000	0.3740
LN	0.8920	0.3950
LO	0.8830	0.3740

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Chain	Atom inclusion	Q-score
LP	0.7580	0.2630
LQ	0.8760	0.4470
LR	0.8800	0.4480
LS	0.3600	0.1000
M1	0.7710	0.3540
M3	0.7540	0.3610
M4	0.7750	0.3570
M6	0.7780	0.3650
M7	0.7970	0.3770
M8	0.7710	0.3660
MD	0.3530	0.0670
ME	0.8770	0.4590
MG	0.7590	0.3600
MJ	0.3710	0.1080
MK	0.3530	0.1090
ML	0.7610	0.3620
MP	0.3790	0.0820
MQ	0.7940	0.3790
MR	0.7800	0.3540
MS	0.5960	0.1800
N1	0.7590	0.3520
N2	0.7200	0.0860
N3	0.7800	0.3600
N4	0.7560	0.3570
N5	0.7180	0.0870
N6	0.7750	0.3590
N7	0.7560	0.3520
N8	0.7680	0.3480
N9	0.7140	0.0910
NA	0.7210	0.0940
NB	0.7100	0.0830
NC	0.7160	0.0940
ND	0.5860	0.1870
NE	0.8710	0.4450
NF	0.7020	0.0780
NG	0.7590	0.3670
NH	0.7120	0.0930
NI	0.7090	0.0830
NJ	0.6010	0.1780
NK	0.5960	0.1780
NL	0.7700	0.3580
NM	0.7060	0.0790

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Chain	Atom inclusion	Q-score
NN	0.7180	0.0900
NO	0.6980	0.0780
NP	0.5940	0.1760
NQ	0.7700	0.3530
NR	0.7890	0.3700
NS	0.6000	0.1730
O1	0.7090	0.3120
O2	0.6990	0.0860
O3	0.6810	0.3260
O4	0.7090	0.3090
O5	0.6910	0.0750
O6	0.7090	0.3150
O7	0.7230	0.3480
O8	0.7000	0.3330
O9	0.7010	0.0900
OA	0.7000	0.0890
OB	0.6970	0.0820
OC	0.7050	0.0880
OD	0.5960	0.1730
OE	0.7820	0.3650
OF	0.6960	0.0790
OG	0.6900	0.3040
OH	0.7010	0.0820
OI	0.6860	0.0740
OJ	0.6040	0.1640
OK	0.6070	0.1750
OL	0.6900	0.3080
OM	0.6860	0.0750
ON	0.6910	0.0790
OO	0.6890	0.0740
OP	0.6150	0.1690
OQ	0.7230	0.3350
OR	0.7230	0.2980
P1	0.7630	0.3680
P3	0.7790	0.3670
P4	0.7490	0.3650
P6	0.7750	0.3580
P7	0.7860	0.3680
P8	0.7630	0.3560
PD	0.6940	0.2550
PE	0.7730	0.3460
PG	0.7470	0.3700

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Chain	Atom inclusion	Q-score
PJ	0.6940	0.2590
PK	0.7060	0.2560
PL	0.7560	0.3650
PP	0.6940	0.2470
PQ	0.7820	0.3670
PR	0.7650	0.3480
PS	0.7060	0.2730
Q1	0.8670	0.4510
Q3	0.8760	0.4570
Q4	0.8670	0.4470
Q6	0.8720	0.4470
Q7	0.8820	0.4570
Q8	0.8770	0.4560
QD	0.6830	0.2830
QE	0.7040	0.3070
QG	0.8710	0.4560
QJ	0.7220	0.2880
QK	0.6710	0.2430
QL	0.8740	0.4540
QP	0.7220	0.2690
QQ	0.8750	0.4550
QR	0.8690	0.4580
QS	0.7090	0.2820
R1	0.8520	0.4430
R3	0.8790	0.4530
R4	0.8570	0.4440
R6	0.8580	0.4470
R7	0.8730	0.4500
R8	0.8710	0.4520
RD	0.5000	0.1510
RE	0.7630	0.3790
RG	0.8730	0.4530
RJ	0.6110	0.1360
RK	0.4810	0.1160
RL	0.8720	0.4540
RP	0.5000	0.1500
RQ	0.8770	0.4530
RR	0.8720	0.4540
RS	0.5370	0.1430
S1	0.8710	0.4560
S3	0.8810	0.4560
S4	0.8700	0.4550

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Chain	Atom inclusion	Q-score
S6	0.8750	0.4590
S7	0.8750	0.4570
S8	0.8720	0.4600
SD	0.7200	0.2530
SE	0.8700	0.4560
SG	0.8760	0.4610
SJ	0.7130	0.2540
SK	0.7270	0.2600
SL	0.8730	0.4630
SP	0.7130	0.2520
SQ	0.8790	0.4580
SR	0.8790	0.4600
SS	0.7090	0.2600
T1	0.8750	0.4390
T3	0.8800	0.4470
T4	0.8740	0.4400
T6	0.8620	0.4370
T7	0.8740	0.4470
T8	0.8770	0.4490
TE	0.8720	0.4520
TG	0.8750	0.4470
TL	0.8740	0.4460
TQ	0.8800	0.4480
TR	0.8730	0.4440
U1	0.7420	0.3470
U3	0.7750	0.3550
U4	0.7350	0.3500
U6	0.7780	0.3630
U7	0.7680	0.3630
U8	0.7900	0.3760
UE	0.8730	0.4580
UG	0.7730	0.3630
UL	0.7710	0.3680
UQ	0.7750	0.3550
UR	0.7820	0.3630
V1	0.6810	0.3190
V3	0.7820	0.3730
V4	0.6900	0.3180
V6	0.7490	0.3590
V7	0.7630	0.3470
V8	0.7630	0.3490
VE	0.8610	0.4430

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Chain	Atom inclusion	Q-score
VG	0.7730	0.3670
VL	0.7730	0.3600
VQ	0.7890	0.3730
VR	0.7660	0.3400
W1	0.7650	0.3690
W3	0.7180	0.3000
W4	0.7750	0.3680
W6	0.6810	0.3340
W7	0.7140	0.3410
W8	0.7320	0.3430
WE	0.7520	0.3630
WG	0.6900	0.3130
WL	0.7000	0.3130
WQ	0.7090	0.3020
WR	0.6900	0.3130
X1	0.8700	0.4560
X3	0.7700	0.3480
X4	0.8720	0.4570
X6	0.7490	0.3480
X7	0.7630	0.3560
X8	0.7860	0.3710
XE	0.7800	0.3660
XG	0.7700	0.3550
XL	0.7630	0.3580
XQ	0.7650	0.3550
XR	0.7580	0.3760
Y1	0.8690	0.4550
Y3	0.8660	0.4390
Y4	0.8690	0.4560
Y6	0.8730	0.4570
Y7	0.8810	0.4570
Y8	0.8760	0.4560
YE	0.6850	0.3310
YG	0.8720	0.4490
YL	0.8750	0.4550
YQ	0.8650	0.4370
YR	0.8710	0.4540
Z1	0.8760	0.4610
Z3	0.7780	0.3510
Z4	0.8810	0.4600
Z6	0.8720	0.4550
Z7	0.8710	0.4480

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Chain	Atom inclusion	Q-score
Z8	0.8730	0.4530
ZE	0.7770	0.3620
ZG	0.8610	0.4470
ZL	0.8770	0.4520
ZQ	0.7850	0.3540
ZR	0.8620	0.4450
a1	0.8690	0.4450
a3	0.7090	0.3250
a4	0.8730	0.4440
a6	0.8790	0.4640
a7	0.8770	0.4560
a8	0.8730	0.4610
aE	0.8770	0.4570
aG	0.8780	0.4600
aL	0.8820	0.4570
aQ	0.7040	0.3290
aR	0.8740	0.4550
b1	0.7820	0.3660
b3	0.8670	0.4380
b4	0.7800	0.3680
b6	0.8750	0.4470
b7	0.8720	0.4470
b8	0.8770	0.4470
bE	0.8770	0.4540
bG	0.8610	0.4380
bL	0.8790	0.4450
bQ	0.8720	0.4530
bR	0.8750	0.4490
c1	0.7660	0.3470
c3	0.7780	0.3510
c4	0.7730	0.3450
c6	0.7710	0.3640
c7	0.7730	0.3610
c8	0.7800	0.3690
cE	0.8770	0.4560
cG	0.7730	0.3650
cL	0.7730	0.3610
cQ	0.8670	0.4500
cR	0.7710	0.3570
d1	0.7040	0.3110
d3	0.7090	0.3320
d4	0.6950	0.3040

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Chain	Atom inclusion	Q-score
d6	0.7770	0.3600
d7	0.7630	0.3460
d8	0.7750	0.3590
dE	0.8810	0.4460
dG	0.7590	0.3580
dL	0.7800	0.3680
dQ	0.8770	0.4590
dR	0.7490	0.3510
e1	0.7630	0.3770
e4	0.7680	0.3730
e6	0.6900	0.3140
e7	0.7040	0.3320
e8	0.6900	0.3140
eE	0.7900	0.3560
eG	0.6810	0.3270
eL	0.7140	0.3110
eQ	0.8600	0.4430
eR	0.7090	0.3150
f1	0.8680	0.4530
f4	0.8670	0.4490
f6	0.7700	0.3610
f7	0.7630	0.3560
f8	0.7720	0.3540
fE	0.7750	0.3690
fG	0.7440	0.3510
fL	0.7720	0.3510
fQ	0.7610	0.3610
fR	0.7560	0.3650
g1	0.8620	0.4460
g4	0.8540	0.4440
g6	0.8680	0.4450
g7	0.8780	0.4570
g8	0.8660	0.4460
gE	0.7140	0.3040
gG	0.8760	0.4560
gL	0.8670	0.4350
gQ	0.7800	0.3680
gR	0.8660	0.4490
h1	0.8680	0.4550
h4	0.8690	0.4540
h6	0.8620	0.4480
h7	0.8730	0.4550

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Chain	Atom inclusion	Q-score
h8	0.8630	0.4480
hE	0.7680	0.3480
hG	0.8740	0.4530
hL	0.7730	0.3520
hQ	0.6850	0.3350
hR	0.8560	0.4420
i1	0.8710	0.4480
i4	0.8710	0.4400
i6	0.8730	0.4570
i7	0.8710	0.4600
i8	0.8770	0.4600
iG	0.8700	0.4590
iL	0.7140	0.3350
iQ	0.7860	0.3670
iR	0.8710	0.4560
j1	0.7750	0.3500
j4	0.7450	0.3480
j6	0.8600	0.4390
j7	0.8770	0.4480
j8	0.8610	0.4370
jG	0.8790	0.4490
jR	0.8680	0.4390
k1	0.7630	0.3550
k4	0.7000	0.3200
k6	0.7710	0.3660
k7	0.8040	0.3740
k8	0.7710	0.3650
kG	0.7940	0.3770
kR	0.7420	0.3470
l1	0.7040	0.3160
l4	0.7650	0.3670
l6	0.7610	0.3610
l7	0.7610	0.3500
l8	0.7560	0.3570
lG	0.7630	0.3530
lR	0.7090	0.3220
m1	0.7510	0.3670
m6	0.6950	0.3230
m7	0.7370	0.3450
m8	0.6950	0.3310
mG	0.7280	0.3410
mR	0.7720	0.3660

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Chain	Atom inclusion	Q-score
n6	0.7560	0.3530
n7	0.7820	0.3720
n8	0.7560	0.3470
nG	0.7860	0.3700