Full wwPDB EM Validation Report

Apr 6, 2026 – 10:42 PM UTC

PDB ID	:	8QO0 / pdb_00008qo0
EMDB ID	:	EMD-18518
Title	:	Asymmetric structure of the Borrelia bacteriophage BB1 procapsid, 3D class 2
Authors	:	Rumnieks, J.; Fuzik, T.; Tars, K.
Deposited on	:	2023-09-27
Resolution	:	10.62 Å(reported)
Based on initial model	:	.

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 (i) 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 (i)) were used in the production of this report:

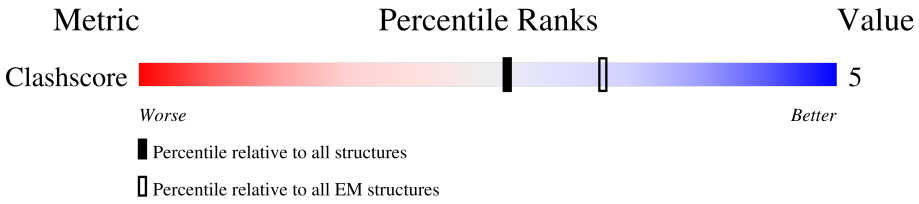
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

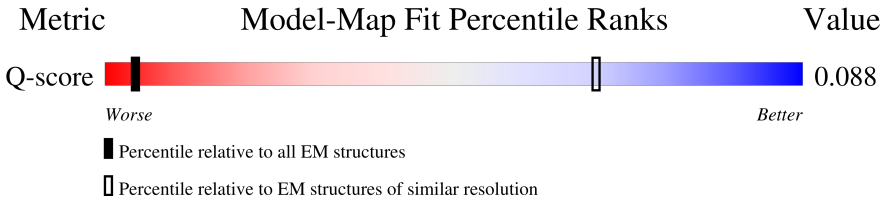
1 Overall quality at a glance (i)

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

The reported resolution of this entry is 10.62 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	-
Q-score	-	25397	94 (10.13 - 11.11)

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	AA	319	7% 88% 9% ·
1	AB	319	8% 90% 8% ·
1	AC	319	13% 89% 9% ·
1	AD	319	15% 90% 7% ·
1	AE	319	12% 91% 7% ·
1	AF	319	16% 89% 9% ·

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Mol	Chain	Length	Quality of chain
1	AG	319	16% 90% 7%
1	AH	319	17% 87% 11%
1	AI	319	13% 92% 6%
1	AJ	319	21% 88% 9%
1	AK	319	15% 87% 11%
1	AL	319	7% 89% 9%
1	AM	319	18% 88% 8%
1	AN	319	19% 90% 8%
1	AO	319	13% 88% 10%
1	AP	319	18% 89% 8%
1	AQ	319	17% 91% 8%
1	AR	319	13% 91% 7%
1	AS	319	15% 84% 14%
1	AT	319	20% 87% 12%
1	AU	319	13% 85% 13%
1	AV	319	13% 85% 13%
1	AW	319	13% 86% 13%
1	AX	319	16% 84% 14%
1	AY	319	16% 86% 12%
1	AZ	319	11% 83% 15%
1	Aa	319	16% 83% 15%
1	Ab	319	92% 6%
1	Ac	319	81% 13% 6%
1	Ad	319	13% 89% 8%
1	Ae	319	8% 90% 8%

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Mol	Chain	Length	Quality of chain
1	Af	319	8% 89% 9%
1	Ag	319	9% 90% 7%
1	Ah	319	20% 88% 10%
1	Ai	319	11% 89% 9%
1	Aj	319	14% 89% 8%
1	Ak	319	11% 86% 12%
1	Al	319	10% 90% 8%
1	Am	319	14% 87% 10%
1	An	319	10% 91% 7%
1	Ao	319	13% 87% 11%
1	Ap	319	9% 87% 10%
1	Aq	319	6% 92% 6%
1	Ar	319	10% 85% 12%
1	As	319	8% 84% 14%
1	At	319	10% 81% 12% 7%
1	Au	319	9% 86% 13%
1	Av	319	13% 85% 13%
1	Aw	319	11% 90% 8%
1	Ax	319	12% 82% 11% 7%
1	Ay	319	17% 83% 15%
1	Az	319	11% 83% 15%
1	BA	319	13% 85% 13%
1	BB	319	13% 84% 14%
1	BC	319	13% 87% 11%
1	BD	319	14% 86% 13%

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Mol	Chain	Length	Quality of chain
1	BE	319	12% 86% 13%
1	BF	319	16% 84% 14%
1	BG	319	9% 85% 13%
1	BH	319	11% 80% 18%
1	BI	319	11% 85% 13%
1	BJ	319	16% 86% 12%
1	BK	319	13% 81% 17%
1	BL	319	17% 81% 17%
1	BM	319	10% 86% 13%
1	BN	319	16% 84% 14%
1	BO	319	14% 80% 18%
1	BP	319	16% 84% 14%
1	BQ	319	8% 84% 14%
1	BR	319	14% 85% 13%
1	BS	319	22% 85% 13%
1	BT	319	13% 84% 14%
1	BU	319	14% 84% 14%
1	BV	319	13% 85% 13%
1	BW	319	16% 81% 17%
1	BX	319	11% 85% 13%
1	BY	319	18% 86% 12%
1	BZ	319	11% 83% 15%
1	Ba	319	12% 81% 17%
1	Bb	319	10% 85% 13%
1	Bc	319	12% 81% 17%

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Mol	Chain	Length	Quality of chain
1	Bd	319	9% 79% 19%
1	Be	319	15% 84% 14%
1	Ep	319	11% 88% 8%
1	Eq	319	7% 90% 8%
1	Er	319	9% 88% 10%
1	Es	319	16% 91% 6%
1	Et	319	12% 91% 8%
1	Eu	319	9% 88% 10%
1	Ev	319	11% 91% 6%
1	Ew	319	15% 86% 12%
1	Ex	319	14% 92% 7%
1	Ey	319	23% 88% 8%
1	Ez	319	11% 88% 10%
1	FA	319	15% 88% 10%
1	FB	319	16% 88% 9%
1	FC	319	13% 91% 7%
1	FD	319	16% 88% 10%
1	FE	319	13% 89% 8%
1	FF	319	13% 90% 8%
1	FG	319	11% 90% 8%
1	FH	319	14% 83% 15%
1	FI	319	16% 87% 12%
1	FJ	319	8% 84% 14%
1	FK	319	13% 85% 13%
1	FL	319	13% 87% 11%

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Mol	Chain	Length	Quality of chain
1	FM	319	17% 84% 14%
1	FN	319	13% 85% 13%
1	FO	319	12% 85% 13%
1	FP	319	12% 84% 14%
1	FQ	319	5% 92% 6%
1	FR	319	6% 82% 12% 6%
1	FS	319	12% 89% 8%
1	FT	319	11% 90% 8%
1	FU	319	6% 89% 9%
1	FV	319	6% 90% 7%
1	FW	319	12% 88% 10%
1	FX	319	11% 89% 9%
1	FY	319	14% 89% 8%
1	FZ	319	11% 86% 12%
1	Fa	319	10% 89% 9%
1	Fb	319	14% 87% 11%
1	Fc	319	12% 91% 7%
1	Fd	319	11% 87% 12%
1	Fe	319	8% 87% 10%
1	Ff	319	11% 91% 7%
1	Fg	319	13% 87% 10%
1	Fh	319	11% 84% 14%
1	Fi	319	13% 82% 12% 7%
1	Fj	319	9% 85% 13%
1	Fk	319	8% 85% 13%

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Mol	Chain	Length	Quality of chain
1	Fl	319	10% 89% 9%
1	Fm	319	13% 83% 10% 7%
1	Fn	319	15% 82% 16%
1	Fo	319	10% 84% 14%
1	Fp	319	9% 85% 13%
1	Fq	319	8% 83% 15%
1	Fr	319	11% 86% 12%
1	Fs	319	12% 85% 13%
1	Ft	319	13% 86% 13%
1	Fu	319	18% 83% 15%
1	Fv	319	13% 85% 13%
1	Fw	319	12% 80% 18%
1	Fx	319	8% 86% 12%
1	Fy	319	11% 88% 10%
1	Fz	319	7% 80% 18%
1	GA	319	18% 80% 18%
1	GB	319	13% 86% 12%
1	GC	319	10% 85% 13%
1	GD	319	11% 80% 18%
1	GE	319	12% 85% 13%
1	GF	319	9% 83% 15%
1	GG	319	9% 85% 13%
1	GH	319	19% 85% 13%
1	GI	319	10% 84% 14%
1	GJ	319	10% 85% 13%

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Mol	Chain	Length	Quality of chain
1	GK	319	9% 85% 13%
1	GL	319	12% 81% 17%
1	GM	319	9% 86% 13%
1	GN	319	15% 86% 12%
1	GO	319	13% 82% 16%
1	GP	319	16% 81% 18%
1	GQ	319	13% 84% 14%
1	GR	319	9% 83% 15%
1	GS	319	12% 80% 18%
1	GT	319	18% 85% 13%
1	Je	319	12% 87% 9%
1	Jf	319	12% 89% 9%
1	Jg	319	13% 88% 10%
1	Jh	319	17% 91% 6%
1	Ji	319	17% 91% 8%
1	Jj	319	16% 87% 11%
1	Jk	319	16% 91% 6%
1	Jl	319	19% 87% 12%
1	Jm	319	16% 91% 7%
1	Jn	319	18% 89% 8%
1	Jo	319	14% 88% 10%
1	Jp	319	13% 88% 10%
1	Jq	319	13% 89% 8%
1	Jr	319	18% 92% 7%
1	Js	319	16% 88% 10%

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Mol	Chain	Length	Quality of chain
1	Jt	319	13% 88% 9%
1	Ju	319	14% 91% 8%
1	Jv	319	14% 91% 7%
1	Jw	319	16% 84% 14%
1	Jx	319	24% 87% 12%
1	Jy	319	13% 84% 14%
1	Jz	319	14% 85% 13%
1	KA	319	15% 86% 13%
1	KB	319	16% 84% 14%
1	KC	319	16% 85% 13%
1	KD	319	16% 84% 14%
1	KE	319	14% 84% 14%
1	KF	319	91% 8%
1	KG	319	81% 13% 6%
1	KH	319	10% 88% 9%
1	KI	319	9% 90% 8%
1	KJ	319	89% 9%
1	KK	319	12% 89% 8%
1	KL	319	15% 87% 12%
1	KM	319	8% 88% 10%
1	KN	319	13% 89% 8%
1	KO	319	11% 87% 11%
1	KP	319	8% 89% 9%
1	KQ	319	13% 87% 11%
1	KR	319	12% 91% 7%

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Mol	Chain	Length	Quality of chain
1	KS	319	13% 86% 12%
1	KT	319	10% 87% 10%
1	KU	319	10% 91% 7%
1	KV	319	11% 85% 12%
1	KW	319	13% 83% 15%
1	KX	319	10% 82% 11% 7%
1	KY	319	11% 85% 13%
1	KZ	319	9% 85% 13%
1	Ka	319	11% 90% 8%
1	Kb	319	12% 83% 10% 7%
1	Kc	319	9% 83% 15%
1	Kd	319	7% 84% 14%
1	Ke	319	12% 84% 14%
1	Kf	319	10% 82% 16%
1	Kg	319	12% 87% 11%
1	Kh	319	11% 84% 14%
1	Ki	319	11% 85% 13%
1	Kj	319	14% 82% 16%
1	Kk	319	7% 85% 13%
1	Kl	319	12% 80% 18%
1	Km	319	13% 87% 11%
1	Kn	319	15% 87% 11%
1	Ko	319	9% 82% 16%
1	Kp	319	13% 82% 17%
1	Kq	319	9% 86% 12%

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Mol	Chain	Length	Quality of chain
1	Kr	319	10% 86% 13%
1	Ks	319	10% 81% 18%
1	Kt	319	14% 86% 13%
1	Ku	319	9% 83% 15%
1	Kv	319	10% 84% 14%
1	Kw	319	16% 85% 13%
1	Kx	319	13% 85% 13%
1	Ky	319	15% 84% 14%
1	Kz	319	11% 85% 13%
1	LA	319	13% 82% 17%
1	LB	319	10% 87% 12%
1	LC	319	19% 86% 12%
1	LD	319	15% 83% 15%
1	LE	319	14% 80% 18%
1	LF	319	12% 84% 14%
1	LG	319	14% 83% 15%
1	LH	319	11% 79% 19%
1	LI	319	14% 85% 13%
1	OT	319	10% 88% 9%
1	OU	319	11% 90% 8%
1	OV	319	8% 89% 9%
1	OW	319	19% 91% 6%
1	OX	319	16% 91% 8%
1	OY	319	10% 89% 9%
1	OZ	319	16% 90% 7%

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Mol	Chain	Length	Quality of chain
1	Oa	319	19% 87% 11%
1	Ob	319	12% 92% 7%
1	Oc	319	20% 87% 9%
1	Od	319	18% 88% 10%
1	Oe	319	18% 88% 10%
1	Of	319	15% 88% 8%
1	Og	319	15% 91% 8%
1	Oh	319	16% 88% 10%
1	Oi	319	17% 89% 8%
1	Oj	319	17% 91% 8%
1	Ok	319	15% 91% 7%
1	Ol	319	13% 82% 16%
1	Om	319	14% 87% 11%
1	On	319	12% 84% 14%
1	Oo	319	13% 86% 12%
1	Op	319	18% 85% 13%
1	Oq	319	20% 84% 14%
1	Or	319	14% 86% 12%
1	Os	319	14% 84% 14%
1	Ot	319	15% 83% 15%
1	Ou	319	91% 8%
1	Ov	319	82% 12% 6%
1	Ow	319	10% 89% 8%
1	Ox	319	8% 91% 8%
1	Oy	319	5% 89% 9%

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Mol	Chain	Length	Quality of chain
1	Oz	319	9% 90% 7%
1	PA	319	13% 88% 10%
1	PB	319	11% 90% 8%
1	PC	319	11% 89% 8%
1	PD	319	9% 87% 11%
1	PE	319	10% 90% 8%
1	PF	319	9% 87% 10%
1	PG	319	12% 91% 7%
1	PH	319	13% 86% 13%
1	PI	319	8% 87% 10%
1	PJ	319	8% 90% 8%
1	PK	319	12% 86% 11%
1	PL	319	6% 83% 15%
1	PM	319	14% 81% 13% 7%
1	PN	319	11% 85% 13%
1	PO	319	9% 85% 13%
1	PP	319	10% 90% 8%
1	PQ	319	10% 83% 10% 7%
1	PR	319	13% 84% 14%
1	PS	319	84% 14%
1	PT	319	10% 85% 13%
1	PU	319	9% 83% 15%
1	PV	319	10% 86% 13%
1	PW	319	14% 85% 13%
1	PX	319	9% 85% 13%

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Mol	Chain	Length	Quality of chain
1	PY	319	15% 83% 15%
1	PZ	319	8% 85% 13%
1	Pa	319	9% 80% 18%
1	Pb	319	9% 85% 13%
1	Pc	319	10% 86% 12%
1	Pd	319	8% 82% 17%
1	Pe	319	14% 81% 18%
1	Pf	319	8% 86% 13%
1	Pg	319	7% 86% 12%
1	Ph	319	10% 80% 18%
1	Pi	319	9% 86% 12%
1	Pj	319	12% 83% 15%
1	Pk	319	13% 85% 13%
1	Pl	319	18% 85% 13%
1	Pm	319	14% 84% 14%
1	Pn	319	13% 83% 15%
1	Po	319	15% 86% 12%
1	Pp	319	13% 82% 16%
1	Pq	319	8% 87% 12%
1	Pr	319	17% 87% 12%
1	Ps	319	12% 83% 15%
1	Pt	319	18% 81% 18%
1	Pu	319	15% 84% 14%
1	Pv	319	11% 83% 15%
1	Pw	319	13% 77% 21%

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Mol	Chain	Length	Quality of chain
1	Px	319	12% 85% 13%
1	TI	319	11% 87% 9%
1	TJ	319	11% 90% 8%
1	TK	319	12% 88% 10%
1	TL	319	20% 90% 7%
1	TM	319	12% 90% 8%
1	TN	319	13% 88% 10%
1	TO	319	14% 90% 7%
1	TP	319	20% 87% 11%
1	TQ	319	15% 91% 7%
1	TR	319	19% 87% 10%
1	TS	319	12% 87% 12%
1	TT	319	13% 89% 9%
1	TU	319	17% 89% 8%
1	TV	319	15% 90% 8%
1	TW	319	17% 87% 11%
1	TX	319	16% 89% 8%
1	TY	319	13% 90% 8%
1	TZ	319	11% 92% 7%
1	Ta	319	13% 82% 16%
1	Tb	319	22% 87% 11%
1	Tc	319	14% 86% 12%
1	Td	319	16% 85% 13%
1	Te	319	17% 85% 13%
1	Tf	319	21% 83% 15%

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Mol	Chain	Length	Quality of chain
1	Tg	319	18% 85% 13%
1	Th	319	14% 85% 13%
1	Ti	319	14% 83% 15%
1	Tj	319	7% 90% 8%
1	Tk	319	82% 12% 6%
1	Tl	319	8% 89% 8%
1	Tm	319	9% 91% 8%
1	Tn	319	8% 88% 10%
1	To	319	8% 91% 6%
1	Tp	319	17% 88% 10%
1	Tq	319	9% 89% 9%
1	Tr	319	15% 89% 8%
1	Ts	319	13% 86% 12%
1	Tt	319	10% 89% 9%
1	Tu	319	11% 86% 12%
1	Tv	319	8% 92% 7%
1	Tw	319	10% 87% 11%
1	Tx	319	12% 85% 12%
1	Ty	319	11% 89% 9%
1	Tz	319	8% 86% 12%
1	UA	319	11% 83% 15%
1	UB	319	12% 81% 12% 7%
1	UC	319	10% 85% 13%
1	UD	319	10% 85% 13%
1	UE	319	6% 90% 8%

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Mol	Chain	Length	Quality of chain
1	UF	319	12% 82% 11% 7%
1	UG	319	15% 83% 15%
1	UH	319	8% 84% 14%
1	UI	319	12% 85% 13%
1	UJ	319	8% 81% 17%
1	UK	319	13% 85% 13%
1	UL	319	17% 85% 13%
1	UM	319	10% 86% 12%
1	UN	319	16% 82% 16%
1	UO	319	9% 86% 13%
1	UP	319	10% 79% 19%
1	UQ	319	10% 87% 12%
1	UR	319	12% 87% 11%
1	US	319	8% 81% 18%
1	UT	319	16% 80% 18%
1	UU	319	13% 87% 12%
1	UV	319	10% 85% 13%
1	UW	319	11% 79% 19%
1	UX	319	13% 85% 13%
1	UY	319	13% 83% 15%
1	UZ	319	9% 85% 13%
1	Ua	319	19% 85% 13%
1	Ub	319	16% 84% 14%
1	Uc	319	14% 83% 15%
1	Ud	319	13% 86% 13%

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Mol	Chain	Length	Quality of chain
1	Ue	319	19% 82% 16%
1	Uf	319	12% 85% 13%
1	Ug	319	20% 86% 12%
1	Uh	319	17% 83% 15%
1	Ui	319	19% 81% 17%
1	Uj	319	17% 84% 14%
1	Uk	319	15% 82% 16%
1	Ul	319	14% 80% 18%
1	Um	319	19% 85% 13%
2	Bf	185	6% 76% 8% 16%
2	Bg	185	7% 73% 9% 18%
2	Bh	185	10% 74% 10% 17%
2	Bi	185	12% 76% 6% 17%
2	Bj	185	12% 74% 10% 17%
2	Bk	185	8% 75% 8% 17%
2	Bl	185	6% 70% 14% 17%
2	Bm	185	17% 74% 9% 17%
2	Bn	185	18% 74% 10% 17%
2	Bo	185	16% 72% 11% 17%
2	Bp	185	18% 70% 13% 17%
2	Bq	185	11% 72% 10% 18%
2	Br	185	19% 72% 11% 17%
2	Bs	185	14% 82% 9% 9%
2	Bt	185	19% 66% 17% 17%
2	Bu	185	14% 70% 12% 17%

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Mol	Chain	Length	Quality of chain
2	Bv	185	10% 69% 14% 17%
2	Bw	185	9% 71% 12% 17%
2	Bx	185	17% 71% 14% 15%
2	By	185	17% 68% 14% 18%
2	Bz	185	10% 72% 11% 17%
2	CA	185	10% 59% 6% 35%
2	CB	185	12% 71% 14% 15%
2	CC	185	13% 71% 12% 17%
2	CD	185	14% 76% 11% 14%
2	CE	185	15% 75% 10% 15%
2	CF	185	14% 69% 14% 17%
2	CG	185	17% 83% 12% 5%
2	CH	185	17% 72% 11% 17%
2	CI	185	10% 77% 8% 15%
2	CJ	185	16% 84% 6% 10%
2	CK	185	7% 76% 15% 9%
2	CL	185	14% 71% 11% 18%
2	CM	185	10% 69% 14% 17%
2	CN	185	11% 71% 12% 17%
2	CO	185	11% 79% 13% 8%
2	CP	185	16% 69% 14% 17%
2	CQ	185	17% 72% 14% 15%
2	CR	185	6% 69% 12% 18%
2	CS	185	8% 72% 11% 17%
2	CT	185	13% 70% 13% 17%

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Mol	Chain	Length	Quality of chain
2	CU	185	14% 72% 14% 15%
2	CV	185	8% 72% 9% 18%
2	CW	185	8% 71% 12% 17%
2	CX	185	11% 71% 12% 17%
2	CY	185	14% 69% 17% 15%
2	CZ	185	7% 68% 14% 18%
2	Ca	185	12% 72% 11% 17%
2	Cb	185	6% 68% 15% 17%
2	Cc	185	10% 72% 13% 15%
2	Cd	185	14% 68% 14% 18%
2	Ce	185	16% 72% 11% 17%
2	Cf	185	12% 68% 15% 17%
2	Cg	185	14% 68% 18% 15%
2	Ch	185	9% 70% 12% 18%
2	Ci	185	9% 74% 10% 17%
2	GU	185	8% 76% 8% 16%
2	GV	185	73% 9% 18%
2	GW	185	9% 74% 9% 17%
2	GX	185	17% 76% 6% 17%
2	GY	185	11% 72% 11% 17%
2	GZ	185	12% 74% 9% 17%
2	Ga	185	9% 70% 14% 17%
2	Gb	185	15% 74% 9% 17%
2	Gc	185	18% 74% 10% 17%
2	Gd	185	10% 72% 10% 17%

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Mol	Chain	Length	Quality of chain
2	Ge	185	18% 69% 14% 17%
2	Gf	185	14% 71% 11% 18%
2	Gg	185	14% 71% 12% 17%
2	Gh	185	11% 82% 9% 9%
2	Gi	185	12% 66% 17% 17%
2	Gj	185	15% 69% 14% 17%
2	Gk	185	21% 71% 11% 17%
2	Gl	185	10% 71% 12% 17%
2	Gm	185	16% 74% 12% 15%
2	Gn	185	14% 68% 14% 18%
2	Go	185	17% 74% 10% 17%
2	Gp	185	58% 7% 35%
2	Gq	185	14% 71% 14% 15%
2	Gr	185	10% 70% 12% 17%
2	Gs	185	14% 76% 10% 14%
2	Gt	185	10% 76% 10% 15%
2	Gu	185	17% 70% 13% 17%
2	Gv	185	21% 83% 11% 5%
2	Gw	185	12% 73% 10% 17%
2	Gx	185	8% 77% 8% 15%
2	Gy	185	14% 84% 5% 10%
2	Gz	185	8% 76% 15% 9%
2	HA	185	11% 72% 10% 18%
2	HB	185	10% 69% 15% 17%
2	HC	185	13% 71% 12% 17%

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Mol	Chain	Length	Quality of chain
2	HD	185	11% 77% 15% 8%
2	HE	185	12% 69% 14% 17%
2	HF	185	16% 72% 14% 15%
2	HG	185	8% 68% 14% 18%
2	HH	185	8% 72% 11% 17%
2	HI	185	11% 71% 12% 17%
2	HJ	185	15% 72% 14% 15%
2	HK	185	71% 10% 18%
2	HL	185	10% 71% 12% 17%
2	HM	185	15% 71% 12% 17%
2	HN	185	11% 68% 17% 15%
2	HO	185	7% 68% 14% 18%
2	HP	185	12% 72% 11% 17%
2	HQ	185	9% 68% 15% 17%
2	HR	185	12% 71% 14% 15%
2	HS	185	10% 68% 14% 18%
2	HT	185	11% 72% 11% 17%
2	HU	185	8% 69% 14% 17%
2	HV	185	16% 69% 17% 15%
2	HW	185	9% 70% 12% 18%
2	HX	185	12% 74% 10% 17%
2	LJ	185	76% 8% 16%
2	LK	185	6% 72% 10% 18%
2	LL	185	11% 75% 9% 17%
2	LM	185	11% 76% 6% 17%

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Mol	Chain	Length	Quality of chain
2	LN	185	14% 72% 11% 17%
2	LO	185	16% 74% 9% 17%
2	LP	185	12% 70% 14% 17%
2	LQ	185	17% 74% 10% 17%
2	LR	185	19% 72% 11% 17%
2	LS	185	12% 73% 10% 17%
2	LT	185	25% 71% 12% 17%
2	LU	185	12% 73% 9% 18%
2	LV	185	14% 71% 12% 17%
2	LW	185	12% 82% 9% 9%
2	LX	185	14% 66% 17% 17%
2	LY	185	22% 70% 12% 17%
2	LZ	185	16% 71% 12% 17%
2	La	185	10% 71% 12% 17%
2	Lb	185	12% 74% 12% 15%
2	Lc	185	9% 69% 13% 18%
2	Ld	185	16% 74% 10% 17%
2	Le	185	6% 58% 7% 35%
2	Lf	185	8% 72% 14% 15%
2	Lg	185	6% 71% 11% 17%
2	Lh	185	16% 75% 11% 14%
2	Li	185	15% 75% 10% 15%
2	Lj	185	18% 69% 14% 17%
2	Lk	185	13% 83% 12% 5%
2	Ll	185	14% 72% 10% 17%

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Mol	Chain	Length	Quality of chain
2	Lm	185	10% 76% 9% 15%
2	Ln	185	10% 82% 8% 10%
2	Lo	185	6% 76% 15% 9%
2	Lp	185	10% 72% 10% 18%
2	Lq	185	6% 69% 15% 17%
2	Lr	185	12% 70% 12% 17%
2	Ls	185	9% 77% 15% 8%
2	Lt	185	8% 70% 13% 17%
2	Lu	185	19% 73% 12% 15%
2	Lv	185	9% 69% 12% 18%
2	Lw	185	9% 72% 11% 17%
2	Lx	185	10% 70% 12% 17%
2	Ly	185	12% 73% 12% 15%
2	Lz	185	71% 10% 18%
2	MA	185	15% 71% 12% 17%
2	MB	185	9% 71% 12% 17%
2	MC	185	16% 68% 17% 15%
2	MD	185	7% 67% 15% 18%
2	ME	185	10% 72% 11% 17%
2	MF	185	7% 68% 15% 17%
2	MG	185	15% 72% 14% 15%
2	MH	185	11% 66% 15% 18%
2	MI	185	14% 72% 11% 17%
2	MJ	185	14% 69% 14% 17%
2	MK	185	17% 68% 18% 15%

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Mol	Chain	Length	Quality of chain
2	ML	185	18% 70% 11% 18%
2	MM	185	16% 74% 10% 17%
2	Py	185	7% 76% 8% 16%
2	Pz	185	73% 9% 18%
2	QA	185	10% 74% 9% 17%
2	QB	185	11% 77% 5% 17%
2	QC	185	10% 74% 10% 17%
2	QD	185	15% 72% 10% 17%
2	QE	185	11% 70% 14% 17%
2	QF	185	21% 74% 9% 17%
2	QG	185	19% 71% 12% 17%
2	QH	185	17% 73% 10% 17%
2	QI	185	17% 72% 11% 17%
2	QJ	185	15% 71% 11% 18%
2	QK	185	19% 71% 12% 17%
2	QL	185	14% 82% 9% 9%
2	QM	185	24% 65% 18% 17%
2	QN	185	11% 71% 12% 17%
2	QO	185	12% 70% 13% 17%
2	QP	185	7% 71% 12% 17%
2	QQ	185	16% 72% 14% 15%
2	QR	185	13% 68% 14% 18%
2	QS	185	18% 71% 12% 17%
2	QT	185	58% 7% 35%
2	QU	185	9% 71% 14% 15%

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Mol	Chain	Length	Quality of chain
2	QV	185	10% 71% 12% 17%
2	QW	185	15% 75% 11% 14%
2	QX	185	14% 76% 10% 15%
2	QY	185	15% 70% 14% 17%
2	QZ	185	14% 82% 12% 5%
2	Qa	185	6% 73% 10% 17%
2	Qb	185	9% 77% 8% 15%
2	Qc	185	10% 83% 7% 10%
2	Qd	185	6% 76% 15% 9%
2	Qe	185	15% 72% 10% 18%
2	Qf	185	12% 69% 14% 17%
2	Qg	185	14% 70% 13% 17%
2	Qh	185	11% 78% 14% 8%
2	Qi	185	11% 70% 13% 17%
2	Qj	185	13% 72% 14% 15%
2	Qk	185	5% 68% 14% 18%
2	Ql	185	11% 72% 11% 17%
2	Qm	185	14% 70% 12% 17%
2	Qn	185	13% 70% 15% 15%
2	Qo	185	6% 71% 10% 18%
2	Qp	185	11% 72% 11% 17%
2	Qq	185	9% 70% 12% 17%
2	Qr	185	16% 70% 15% 15%
2	Qs	185	8% 68% 14% 18%
2	Qt	185	12% 72% 11% 17%

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Mol	Chain	Length	Quality of chain
2	Qu	185	9% 68% 15% 17%
2	Qv	185	16% 72% 14% 15%
2	Qw	185	13% 69% 13% 18%
2	Qx	185	17% 72% 11% 17%
2	Qy	185	11% 69% 14% 17%
2	Qz	185	16% 69% 17% 15%
2	RA	185	17% 70% 12% 18%
2	RB	185	17% 72% 11% 17%
2	Un	185	5% 76% 8% 16%
2	Uo	185	5% 73% 9% 18%
2	Up	185	16% 74% 10% 17%
2	Uq	185	11% 76% 6% 17%
2	Ur	185	10% 73% 10% 17%
2	Us	185	9% 75% 8% 17%
2	Ut	185	6% 70% 14% 17%
2	Uu	185	16% 74% 9% 17%
2	Uv	185	18% 74% 10% 17%
2	Uw	185	14% 73% 10% 17%
2	Ux	185	21% 70% 13% 17%
2	Uy	185	15% 72% 10% 18%
2	Uz	185	13% 71% 12% 17%
2	VA	185	15% 82% 9% 9%
2	VB	185	18% 66% 17% 17%
2	VC	185	13% 71% 12% 17%
2	VD	185	14% 70% 12% 17%

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Mol	Chain	Length	Quality of chain
2	VE	185	9% 71% 12% 17%
2	VF	185	15% 72% 13% 15%
2	VG	185	13% 68% 14% 18%
2	VH	185	19% 72% 11% 17%
2	VI	185	9% 59% 6% 35%
2	VJ	185	10% 71% 14% 15%
2	VK	185	7% 70% 13% 17%
2	VL	185	10% 75% 12% 14%
2	VM	185	14% 76% 10% 15%
2	VN	185	19% 70% 14% 17%
2	VO	185	18% 84% 11% 5%
2	VP	185	14% 73% 10% 17%
2	VQ	185	11% 76% 9% 15%
2	VR	185	10% 83% 6% 10%
2	VS	185	8% 76% 15% 9%
2	VT	185	11% 71% 11% 18%
2	VU	185	11% 69% 15% 17%
2	VV	185	13% 70% 13% 17%
2	VW	185	11% 78% 14% 8%
2	VX	185	15% 69% 14% 17%
2	VY	185	10% 72% 14% 15%
2	VZ	185	10% 68% 14% 18%
2	Va	185	12% 72% 11% 17%
2	Vb	185	11% 70% 13% 17%
2	Vc	185	14% 71% 15% 15%

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Mol	Chain	Length	Quality of chain
2	Vd	185	10% 71% 10% 18%
2	Ve	185	11% 71% 12% 17%
2	Vf	185	9% 71% 12% 17%
2	Vg	185	17% 71% 14% 15%
2	Vh	185	7% 68% 14% 18%
2	Vi	185	15% 72% 11% 17%
2	Vj	185	6% 68% 15% 17%
2	Vk	185	10% 72% 14% 15%
2	Vl	185	14% 69% 13% 18%
2	Vm	185	16% 72% 11% 17%
2	Vn	185	12% 69% 14% 17%
2	Vo	185	16% 69% 16% 15%
2	Vp	185	13% 70% 12% 18%
2	Vq	185	14% 73% 10% 17%
3	Cj	254	9% 54% 10% 37%
3	HY	254	8% 54% 9% 37%
3	MN	254	7% 54% 10% 37%
3	RC	254	6% 54% 9% 37%
3	Vr	254	6% 54% 10% 37%
4	Ck	190	10% 67% 13% 20%
4	Cl	190	6% 66% 14% 20%
4	Cm	190	9% 71% 10% 19%
4	Cn	190	17% 66% 14% 20%
4	Co	190	6% 67% 15% 18%
4	Cp	190	12% 66% 14% 20%

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Mol	Chain	Length	Quality of chain
4	Cq	190	5% 73% 17% 10%
4	Cr	190	12% 76% 14% 10%
4	Cs	190	7% 73% 17% 10%
4	Ct	190	66% 10% 24%
4	Cu	190	9% 68% 12% 21%
4	Cv	190	7% 69% 12% 19%
4	Cw	190	6% 67% 14% 19%
4	Cx	190	8% 67% 12% 21%
4	Cy	190	5% 65% 14% 21%
4	Cz	190	6% 60% 20% 20%
4	DA	190	11% 76% 14% 10%
4	DB	190	17% 77% 13% 10%
4	DC	190	7% 74% 16% 10%
4	DD	190	9% 73% 17% 10%
4	DE	190	8% 74% 16% 10%
4	DF	190	9% 75% 15% 10%
4	DG	190	14% 74% 16% 10%
4	DH	190	7% 74% 16% 10%
4	DI	190	19% 74% 16% 10%
4	DJ	190	7% 77% 13% 10%
4	HZ	190	8% 67% 13% 20%
4	Ha	190	8% 67% 13% 20%
4	Hb	190	13% 69% 11% 19%
4	Hc	190	12% 67% 13% 20%
4	Hd	190	9% 68% 14% 18%

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Mol	Chain	Length	Quality of chain
4	He	190	5% 66% 14% 20%
4	Hf	190	11% 73% 17% 10%
4	Hg	190	14% 75% 15% 10%
4	Hh	190	8% 73% 17% 10%
4	Hi	190	5% 66% 10% 24%
4	Hj	190	6% 67% 13% 21%
4	Hk	190	5% 71% 10% 19%
4	Hl	190	6% 66% 15% 19%
4	Hm	190	7% 66% 13% 21%
4	Hn	190	6% 66% 14% 21%
4	Ho	190	61% 19% 20%
4	Hp	190	5% 76% 14% 10%
4	Hq	190	17% 78% 12% 10%
4	Hr	190	7% 75% 15% 10%
4	Hs	190	13% 73% 17% 10%
4	Ht	190	9% 74% 16% 10%
4	Hu	190	11% 76% 14% 10%
4	Hv	190	9% 73% 17% 10%
4	Hw	190	7% 74% 16% 10%
4	Hx	190	8% 73% 17% 10%
4	Hy	190	8% 78% 12% 10%
4	MO	190	68% 12% 20%
4	MP	190	9% 68% 12% 20%
4	MQ	190	9% 71% 10% 19%
4	MR	190	11% 67% 13% 20%

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Mol	Chain	Length	Quality of chain
4	MS	190	5% 68% 14% 18%
4	MT	190	7% 66% 14% 20%
4	MU	190	8% 71% 19% 10%
4	MV	190	16% 75% 15% 10%
4	MW	190	16% 72% 18% 10%
4	MX	190	66% 10% 24%
4	MY	190	8% 66% 14% 21%
4	MZ	190	6% 72% 9% 19%
4	Ma	190	8% 66% 15% 19%
4	Mb	190	5% 66% 13% 21%
4	Mc	190	12% 66% 13% 21%
4	Md	190	8% 61% 19% 20%
4	Me	190	12% 76% 14% 10%
4	Mf	190	12% 78% 12% 10%
4	Mg	190	7% 75% 15% 10%
4	Mh	190	11% 72% 18% 10%
4	Mi	190	7% 74% 16% 10%
4	Mj	190	12% 76% 14% 10%
4	Mk	190	12% 74% 16% 10%
4	Ml	190	8% 74% 16% 10%
4	Mm	190	14% 74% 16% 10%
4	Mn	190	6% 77% 13% 10%
4	RD	190	7% 68% 12% 20%
4	RE	190	8% 67% 13% 20%
4	RF	190	11% 71% 10% 19%

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Mol	Chain	Length	Quality of chain
4	RG	190	18% 68% 12% 20%
4	RH	190	7% 68% 14% 18%
4	RI	190	8% 66% 14% 20%
4	RJ	190	11% 71% 19% 10%
4	RK	190	16% 75% 15% 10%
4	RL	190	17% 71% 19% 10%
4	RM	190	66% 10% 24%
4	RN	190	7% 67% 13% 21%
4	RO	190	6% 70% 11% 19%
4	RP	190	6% 66% 15% 19%
4	RQ	190	5% 67% 13% 21%
4	RR	190	65% 14% 21%
4	RS	190	61% 19% 20%
4	RT	190	7% 76% 14% 10%
4	RU	190	9% 77% 13% 10%
4	RV	190	7% 75% 15% 10%
4	RW	190	12% 72% 18% 10%
4	RX	190	9% 75% 15% 10%
4	RY	190	11% 75% 15% 10%
4	RZ	190	12% 75% 15% 10%
4	Ra	190	11% 75% 15% 10%
4	Rb	190	13% 74% 16% 10%
4	Rc	190	8% 77% 13% 10%
4	Vs	190	68% 12% 20%
4	Vt	190	11% 66% 14% 20%

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Mol	Chain	Length	Quality of chain
4	Vu	190	12% 71% 10% 19%
4	Vv	190	13% 67% 13% 20%
4	Vw	190	11% 68% 14% 18%
4	Vx	190	8% 66% 14% 20%
4	Vy	190	12% 72% 18% 10%
4	Vz	190	16% 76% 14% 10%
4	WA	190	18% 72% 18% 10%
4	WB	190	5% 66% 10% 24%
4	WC	190	5% 67% 13% 21%
4	WD	190	8% 71% 10% 19%
4	WE	190	5% 66% 15% 19%
4	WF	190	9% 67% 13% 21%
4	WG	190	7% 65% 14% 21%
4	WH	190	8% 59% 21% 20%
4	WI	190	6% 76% 14% 10%
4	WJ	190	16% 76% 14% 10%
4	WK	190	73% 17% 10%
4	WL	190	16% 72% 18% 10%
4	WM	190	9% 74% 16% 10%
4	WN	190	10% 74% 16% 10%
4	WO	190	12% 74% 16% 10%
4	WP	190	12% 75% 15% 10%
4	WQ	190	11% 75% 15% 10%
4	WR	190	15% 77% 13% 10%
5	DK	230	13% 87%

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Mol	Chain	Length	Quality of chain
5	DL	230	16% 84%
5	DM	230	16% 84%
5	DN	230	8% 16% 84%
5	DO	230	16% 84%
5	DP	230	16% 84%
5	DQ	230	7% 16% 84%
5	DR	230	16% 84%
5	DS	230	5% 16% 84%
5	DT	230	5% 15% 84%
5	DU	230	6% 15% 84%
5	DV	230	16% 84%
5	DW	230	5% 13% 87%
5	DX	230	16% 84%
5	DY	230	16% 84%
5	DZ	230	15% 84%
5	Da	230	16% 84%
5	Db	230	7% 16% 84%
5	Dc	230	16% 84%
5	Dd	230	13% 87%
5	De	230	16% 84%
5	Df	230	11% 89%
5	Dg	230	11% 89%
5	Dh	230	12% 87%
5	Di	230	13% 87%
5	Dj	230	13% 87%

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Mol	Chain	Length	Quality of chain
5	Dk	230	13% 87%
5	Dl	230	16% 84%
5	Dm	230	13% 87%
5	Dn	230	15% 84%
5	Do	230	16% 84%
5	Dp	230	16% 84%
5	Dq	230	16% 84%
5	Dr	230	16% 84%
5	Ds	230	16% 84%
5	Dt	230	16% 84%
5	Du	230	5% 15% 84%
5	Dv	230	16% 84%
5	Dw	230	10% 12% 88%
5	Dx	230	16% 84%
5	Dy	230	16% 84%
5	Dz	230	16% 84%
5	EA	230	11% 89%
5	EB	230	11% 87%
5	EC	230	16% 84%
5	ED	230	12% 87%
5	EE	230	16% 84%
5	EF	230	11% 89%
5	EG	230	16% 84%
5	EH	230	12% 87%
5	EI	230	13% 87%

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Mol	Chain	Length	Quality of chain
5	EJ	230	13% 87%
5	EK	230	13% 87%
5	EL	230	17% 83%
5	EM	230	15% 84%
5	EN	230	16% 84%
5	EO	230	17% 83%
5	EP	230	16% 84%
5	EQ	230	5% 15% 84%
5	ER	230	17% 83%
5	ES	230	15% 84%
5	ET	230	11% 89%
5	EU	230	17% 83%
5	EV	230	16% 84%
5	EW	230	16% 84%
5	EX	230	5% 15% 84%
5	EY	230	17% 83%
5	EZ	230	16% 84%
5	Ea	230	17% 83%
5	Eb	230	5% 16% 84%
5	Ec	230	16% 84%
5	Ed	230	13% 87%
5	Ee	230	16% 84%
5	Ef	230	6% 15% 84%
5	Eg	230	13% 87%
5	Eh	230	10% 89%

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Mol	Chain	Length	Quality of chain
5	Ei	230	16% 84%
5	Ej	230	17% 83%
5	Ek	230	16% 84%
5	El	230	15% 84%
5	Em	230	10% 89%
5	En	230	17% 83%
5	Eo	230	15% 84%
5	Hz	230	13% 87%
5	IA	230	16% 84%
5	IB	230	16% 84%
5	IC	230	7% 16% 84%
5	ID	230	16% 84%
5	IE	230	16% 84%
5	IF	230	16% 84%
5	IG	230	16% 84%
5	IH	230	6% 16% 84%
5	II	230	15% 84%
5	IJ	230	5% 15% 84%
5	IK	230	15% 84%
5	IL	230	6% 12% 87%
5	IM	230	16% 84%
5	IN	230	16% 84%
5	IO	230	15% 84%
5	IP	230	16% 84%
5	IQ	230	16% 84%

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Mol	Chain	Length	Quality of chain
5	IR	230	16% 84%
5	IS	230	13% 87%
5	IT	230	16% 84%
5	IU	230	16% 84%
5	IV	230	16% 84%
5	IW	230	12% 87%
5	IX	230	13% 87%
5	IY	230	12% 87%
5	IZ	230	13% 87%
5	Ia	230	16% 84%
5	Ib	230	13% 87%
5	Ic	230	15% 84%
5	Id	230	16% 84%
5	Ie	230	16% 84%
5	If	230	16% 84%
5	Ig	230	16% 84%
5	Ih	230	16% 84%
5	Ii	230	16% 84%
5	Ij	230	15% 84%
5	Ik	230	16% 84%
5	Il	230	6% 12% 88%
5	Im	230	16% 84%
5	In	230	16% 84%
5	Io	230	16% 84%
5	Ip	230	11% 89%

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Mol	Chain	Length	Quality of chain
5	Iq	230	7% 11% 87%
5	Ir	230	15% 84%
5	Is	230	12% 87%
5	It	230	16% 84%
5	Iu	230	16% 84%
5	Iv	230	16% 84%
5	Iw	230	12% 87%
5	Ix	230	13% 87%
5	Iy	230	13% 87%
5	Iz	230	12% 87%
5	JA	230	17% 83%
5	JB	230	15% 84%
5	JC	230	16% 84%
5	JD	230	17% 83%
5	JE	230	16% 84%
5	JF	230	5% 15% 84%
5	JG	230	17% 83%
5	JH	230	15% 84%
5	JI	230	16% 84%
5	JJ	230	17% 83%
5	JK	230	11% 89%
5	JL	230	16% 84%
5	JM	230	15% 84%
5	JN	230	17% 83%
5	JO	230	16% 84%

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Mol	Chain	Length	Quality of chain
5	JP	230	17% 83%
5	JQ	230	16% 84%
5	JR	230	16% 84%
5	JS	230	17% 83%
5	JT	230	16% 84%
5	JU	230	5% 15% 84%
5	JV	230	17% 83%
5	JW	230	15% 84%
5	JX	230	16% 84%
5	JY	230	17% 83%
5	JZ	230	5% 16% 84%
5	Ja	230	15% 84%
5	Jb	230	15% 84%
5	Jc	230	17% 83%
5	Jd	230	15% 84%
5	Mo	230	13% 87%
5	Mp	230	16% 84%
5	Mq	230	16% 84%
5	Mr	230	8% 16% 84%
5	Ms	230	16% 84%
5	Mt	230	16% 84%
5	Mu	230	6% 16% 84%
5	Mv	230	5% 16% 84%
5	Mw	230	7% 16% 84%
5	Mx	230	5% 15% 84%

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Mol	Chain	Length	Quality of chain
5	My	230	6% 15% 84%
5	Mz	230	16% 84%
5	NA	230	7% 12% 87%
5	NB	230	16% 84%
5	NC	230	16% 84%
5	ND	230	15% 84%
5	NE	230	16% 84%
5	NF	230	7% 16% 84%
5	NG	230	16% 84%
5	NH	230	13% 87%
5	NI	230	16% 84%
5	NJ	230	16% 84%
5	NK	230	16% 84%
5	NL	230	12% 87%
5	NM	230	13% 87%
5	NN	230	12% 87%
5	NO	230	13% 87%
5	NP	230	16% 84%
5	NQ	230	12% 87%
5	NR	230	15% 84%
5	NS	230	16% 84%
5	NT	230	16% 84%
5	NU	230	16% 84%
5	NV	230	16% 84%
5	NW	230	16% 84%

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Mol	Chain	Length	Quality of chain
5	NX	230	16% 84%
5	NY	230	15% 84%
5	NZ	230	16% 84%
5	Na	230	7% 12% 88%
5	Nb	230	16% 84%
5	Nc	230	16% 84%
5	Nd	230	16% 84%
5	Ne	230	16% 84%
5	Nf	230	11% 87%
5	Ng	230	16% 84%
5	Nh	230	13% 87%
5	Ni	230	16% 84%
5	Nj	230	16% 84%
5	Nk	230	16% 84%
5	Nl	230	12% 87%
5	Nm	230	13% 87%
5	Nn	230	13% 87%
5	No	230	12% 87%
5	Np	230	17% 83%
5	Nq	230	15% 84%
5	Nr	230	16% 84%
5	Ns	230	17% 83%
5	Nt	230	16% 84%
5	Nu	230	15% 84%
5	Nv	230	17% 83%

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Mol	Chain	Length	Quality of chain
5	Nw	230	15% 84%
5	Nx	230	16% 84%
5	Ny	230	17% 83%
5	Nz	230	16% 84%
5	OA	230	11% 89%
5	OB	230	6% 15% 84%
5	OC	230	17% 83%
5	OD	230	16% 84%
5	OE	230	17% 83%
5	OF	230	5% 16% 84%
5	OG	230	16% 84%
5	OH	230	17% 83%
5	OI	230	15% 84%
5	OJ	230	10% 89%
5	OK	230	17% 83%
5	OL	230	15% 84%
5	OM	230	5% 16% 84%
5	ON	230	13% 87%
5	OO	230	16% 84%
5	OP	230	15% 84%
5	OQ	230	6% 14% 84%
5	OR	230	17% 83%
5	OS	230	5% 15% 84%
5	Rd	230	13% 87%
5	Re	230	16% 84%

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Mol	Chain	Length	Quality of chain
5	Rf	230	16% 84%
5	Rg	230	9% 16% 84%
5	Rh	230	16% 84%
5	Ri	230	16% 84%
5	Rj	230	5% 15% 84%
5	Rk	230	6% 16% 84%
5	Rl	230	5% 16% 84%
5	Rm	230	7% 15% 84%
5	Rn	230	5% 15% 84%
5	Ro	230	16% 84%
5	Rp	230	12% 87%
5	Rq	230	16% 84%
5	Rr	230	16% 84%
5	Rs	230	15% 84%
5	Rt	230	16% 84%
5	Ru	230	7% 16% 84%
5	Rv	230	15% 84%
5	Rw	230	13% 87%
5	Rx	230	5% 16% 84%
5	Ry	230	16% 84%
5	Rz	230	16% 84%
5	SA	230	12% 87%
5	SB	230	13% 87%
5	SC	230	12% 87%
5	SD	230	13% 87%

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Mol	Chain	Length	Quality of chain
5	SE	230	16% 84%
5	SF	230	13% 87%
5	SG	230	15% 84%
5	SH	230	16% 84%
5	SI	230	16% 84%
5	SJ	230	16% 84%
5	SK	230	16% 84%
5	SL	230	16% 84%
5	SM	230	16% 84%
5	SN	230	5% 15% 84%
5	SO	230	16% 84%
5	SP	230	8% 12% 88%
5	SQ	230	16% 84%
5	SR	230	16% 84%
5	SS	230	16% 84%
5	ST	230	16% 84%
5	SU	230	11% 87%
5	SV	230	16% 84%
5	SW	230	12% 87%
5	SX	230	16% 84%
5	SY	230	11% 89%
5	SZ	230	16% 84%
5	Sa	230	12% 87%
5	Sb	230	13% 87%
5	Sc	230	13% 87%

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Mol	Chain	Length	Quality of chain
5	Sd	230	12% 87%
5	Se	230	17% 83%
5	Sf	230	15% 84%
5	Sg	230	16% 84%
5	Sh	230	17% 83%
5	Si	230	16% 84%
5	Sj	230	15% 84%
5	Sk	230	17% 83%
5	Sl	230	10% 89%
5	Sm	230	16% 84%
5	Sn	230	17% 83%
5	So	230	16% 84%
5	Sp	230	16% 84%
5	Sq	230	15% 84%
5	Sr	230	17% 83%
5	Ss	230	16% 84%
5	St	230	17% 83%
5	Su	230	5% 16% 84%
5	Sv	230	16% 84%
5	Sw	230	17% 83%
5	Sx	230	15% 84%
5	Sy	230	15% 84%
5	Sz	230	17% 83%
5	TA	230	15% 84%
5	TB	230	16% 84%

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Mol	Chain	Length	Quality of chain
5	TC	230	13% 87%
5	TD	230	16% 84%
5	TE	230	15% 84%
5	TF	230	5% 14% 84%
5	TG	230	17% 83%
5	TH	230	15% 84%
5	WS	230	13% 87%
5	WT	230	16% 84%
5	WU	230	5% 16% 84%
5	WV	230	9% 16% 84%
5	WW	230	16% 84%
5	WX	230	16% 84%
5	WY	230	7% 16% 84%
5	WZ	230	6% 16% 84%
5	Wa	230	7% 16% 84%
5	Wb	230	7% 15% 84%
5	Wc	230	15% 84%
5	Wd	230	11% 89%
5	We	230	6% 13% 87%
5	Wf	230	16% 84%
5	Wg	230	16% 84%
5	Wh	230	15% 84%
5	Wi	230	6% 16% 84%
5	Wj	230	6% 16% 84%
5	Wk	230	16% 84%

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Mol	Chain	Length	Quality of chain
5	Wl	230	13% 87%
5	Wm	230	16% 84%
5	Wn	230	16% 84%
5	Wo	230	16% 84%
5	Wp	230	12% 87%
5	Wq	230	5% 13% 87%
5	Wr	230	13% 87%
5	Ws	230	13% 87%
5	Wt	230	16% 84%
5	Wu	230	13% 87%
5	Wv	230	15% 84%
5	Ww	230	16% 84%
5	Wx	230	16% 84%
5	Wy	230	16% 84%
5	Wz	230	16% 84%
5	XA	230	16% 84%
5	XB	230	16% 84%
5	XC	230	15% 84%
5	XD	230	16% 84%
5	XE	230	7% 12% 88%
5	XF	230	16% 84%
5	XG	230	16% 84%
5	XH	230	16% 84%
5	XI	230	16% 84%
5	XJ	230	6% 11% 87%

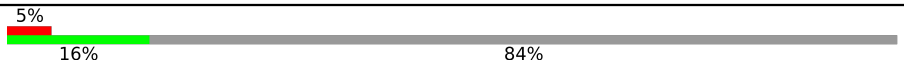
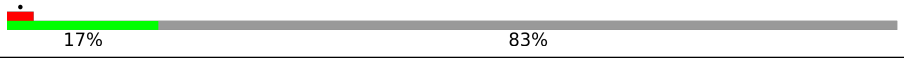
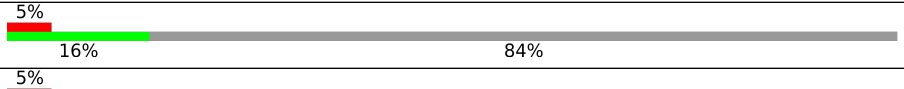
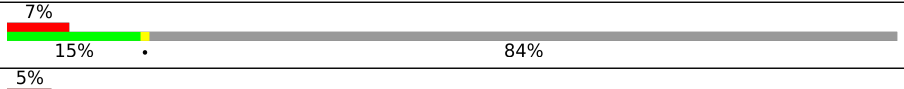
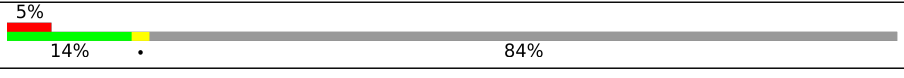
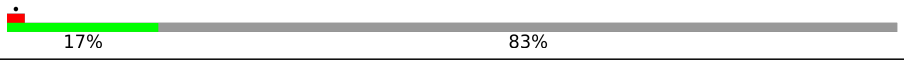
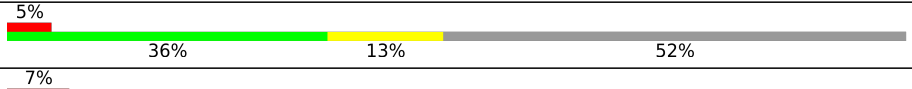
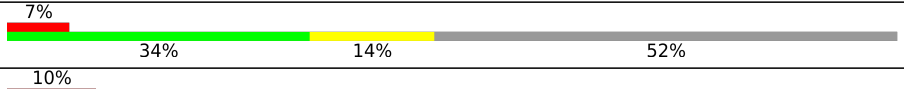
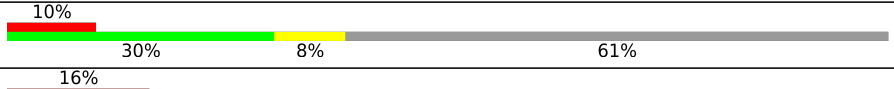
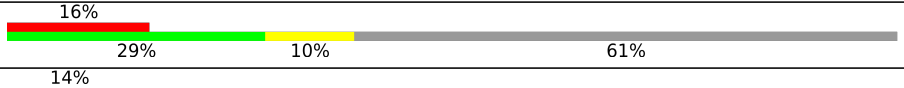
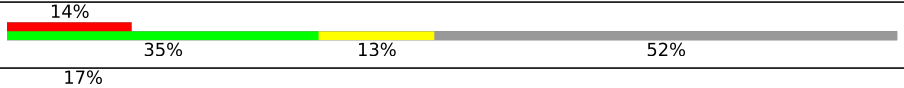
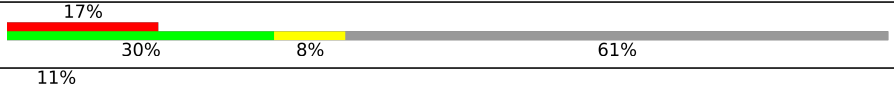
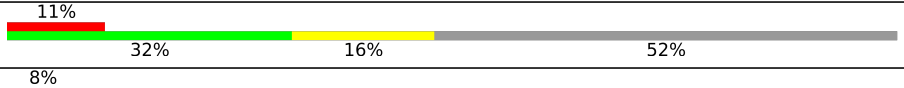
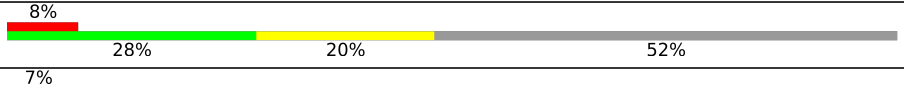
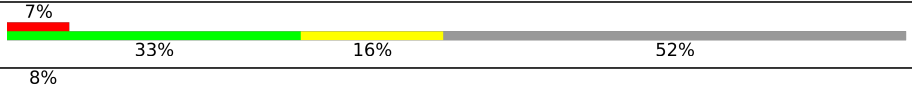
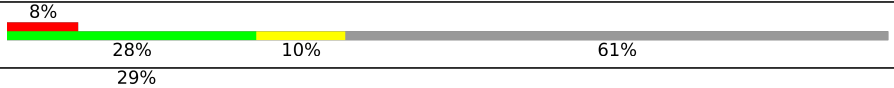
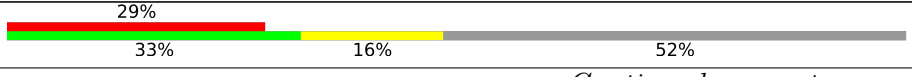
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Mol	Chain	Length	Quality of chain
5	XK	230	16% 84%
5	XL	230	12% 87%
5	XM	230	16% 84%
5	XN	230	16% 84%
5	XO	230	16% 84%
5	XP	230	12% 87%
5	XQ	230	13% 87%
5	XR	230	13% 87%
5	XS	230	12% 87%
5	XT	230	17% 83%
5	XU	230	10% 89%
5	XV	230	16% 84%
5	XW	230	17% 83%
5	XX	230	16% 84%
5	XY	230	15% 84%
5	XZ	230	17% 83%
5	Xa	230	15% 84%
5	Xb	230	16% 84%
5	Xc	230	17% 83%
5	Xd	230	16% 84%
5	Xe	230	16% 84%
5	Xf	230	15% 84%
5	Xg	230	13% 87%
5	Xh	230	15% 84%
5	Xi	230	17% 83%

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Mol	Chain	Length	Quality of chain
5	Xj	230	
5	Xk	230	
5	Xl	230	
5	Xm	230	
5	Xn	230	
5	Xo	230	
5	Xp	230	
5	Xq	230	
5	Xr	230	
5	Xs	230	
5	Xt	230	
5	Xu	230	
5	Xv	230	
5	Xw	230	
5	YJ	230	
5	YK	230	
5	YL	230	
5	YM	230	
5	YN	230	
5	YO	230	
5	YP	230	
5	YQ	230	
5	YR	230	
5	YS	230	
5	YT	230	

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Mol	Chain	Length	Quality of chain
5	YU	230	21% 33% 15% 52%
5	YV	230	19% 37% 11% 52%
5	YW	230	18% 29% 13% 58%
5	YX	230	9% 32% 17% 52%
5	YY	230	13% 28% 14% 58%
5	YZ	230	8% 34% 14% 52%
5	Ya	230	29% 39% 9% 52%
5	Yb	230	29% 30% 12% 58%
5	Yc	230	18% 32% 17% 52%
5	Yd	230	19% 26% 17% 58%
5	Ye	230	14% 30% 18% 52%
5	Yf	230	17% 28% 14% 58%
5	Yg	230	16% 32% 17% 52%
5	Yh	230	27% 38% 10% 52%
5	Yi	230	11% 27% 15% 58%
5	Yj	230	13% 33% 16% 52%
5	Yk	230	7% 37% 11% 52%
5	Yl	230	14% 31% 11% 58%
5	Ym	230	37% 11% 52%
5	Yn	230	15% 30% 12% 58%
5	Yo	230	7% 40% 9% 52%
5	Yp	230	14% 30% 12% 58%
5	Yq	230	16% 34% 14% 52%
5	Yr	230	26% 29% 13% 58%
5	Ys	230	7% 34% 14% 52%

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Mol	Chain	Length	Quality of chain
5	Yt	230	12% 30% 13% 58%
5	Yu	230	6% 34% 14% 52%
5	Yv	230	13% 29% 13% 58%
5	Yw	230	19% 35% 13% 52%
5	Yx	230	28% 27% 15% 58%
5	Yy	230	5% 35% 13% 52%
5	Yz	230	11% 32% 10% 58%
5	ZA	230	6% 36% 12% 52%
5	ZB	230	10% 31% 11% 58%
5	ZC	230	11% 33% 16% 52%
5	ZD	230	20% 27% 15% 58%
5	ZE	230	23% 35% 13% 52%
5	ZF	230	26% 30% 13% 58%
5	ZG	230	9% 35% 13% 52%
5	ZH	230	11% 31% 11% 58%
5	ZI	230	8% 35% 13% 52%
5	ZJ	230	17% 31% 11% 58%
5	ZK	230	27% 38% 10% 52%
5	ZL	230	32% 25% 17% 58%
5	ZM	230	10% 34% 14% 52%
5	ZN	230	12% 32% 10% 58%
5	ZO	230	35% 13% 52%
5	ZP	230	7% 29% 12% 60%
5	ZQ	230	37% 11% 52%
5	ZR	230	32% 10% 58%

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Mol	Chain	Length	Quality of chain
5	ZS	230	5% 36% 13% 52%
5	ZT	230	32% 10% 58%
5	ZU	230	38% 10% 52%
5	ZV	230	7% 32% 10% 58%
5	ZW	230	37% 12% 52%
5	ZX	230	32% 10% 58%
5	ZY	230	35% 13% 52%
5	ZZ	230	5% 32% 10% 58%
5	Za	230	35% 13% 52%
5	Zb	230	7% 32% 10% 58%
5	Zc	230	5% 34% 14% 52%
5	Zd	230	5% 32% 10% 58%
5	Ze	230	36% 12% 52%
5	Zf	230	32% 10% 58%
5	Zg	230	38% 10% 52%
5	Zh	230	32% 10% 58%
5	Zi	230	37% 11% 52%
5	Zj	230	31% 11% 58%
5	Zk	230	37% 12% 52%
5	Zl	230	7% 32% 10% 58%
5	Zm	230	37% 12% 52%
5	Zn	230	5% 32% 10% 58%
5	Zo	230	35% 13% 52%
5	Zp	230	32% 10% 58%
5	Zq	230	33% 15% 52%

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Mol	Chain	Length	Quality of chain
5	Zr	230	33% 10% 58%
5	Zs	230	5% 36% 12% 52%
5	Zt	230	5% 32% 10% 58%
5	Zu	230	6% 37% 12% 52%
5	Zv	230	7% 32% 10% 58%
5	Zw	230	35% 13% 52%
5	Zx	230	7% 32% 10% 58%
5	Zy	230	5% 36% 13% 52%
5	Zz	230	32% 10% 58%
5	aA	230	6% 37% 12% 52%
5	aB	230	5% 32% 10% 58%
5	aC	230	36% 13% 52%
5	aD	230	13% 33% 9% 58%
5	aE	230	36% 12% 52%
5	aF	230	7% 32% 10% 58%
5	aG	230	36% 12% 52%
5	aH	230	32% 10% 58%
5	aI	230	7% 36% 12% 52%
5	aJ	230	10% 33% 9% 58%
5	aK	230	7% 36% 12% 52%
5	aL	230	10% 33% 9% 58%
5	aM	230	6% 36% 12% 52%
5	aN	230	32% 10% 58%
5	aO	230	7% 35% 13% 52%
5	aP	230	6% 32% 10% 58%

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Mol	Chain	Length	Quality of chain
5	aQ	230	35% 13% 52%
5	aR	230	33% 10% 58%
5	aS	230	35% 13% 52%
5	aT	230	32% 10% 58%
5	aU	230	35% 13% 52%
5	aV	230	33% 10% 58%
5	aW	230	35% 13% 52%
5	aX	230	8% 32% 10% 58%
5	aY	230	36% 13% 52%
5	aZ	230	5% 33% 9% 58%
5	aa	230	36% 13% 52%
5	ab	230	33% 10% 58%
5	ac	230	10% 38% 10% 52%
5	ad	230	13% 33% 10% 58%
5	ae	230	15% 36% 13% 52%
5	af	230	25% 32% 10% 58%
5	ag	230	9% 36% 13% 52%
5	ah	230	26% 32% 10% 58%
5	ai	230	16% 37% 12% 52%
5	aj	230	14% 33% 9% 58%
5	ak	230	21% 36% 12% 52%
5	al	230	31% 32% 10% 58%
5	am	230	10% 35% 13% 52%
5	an	230	33% 33% 10% 58%
5	ao	230	10% 37% 12% 52%

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Mol	Chain	Length	Quality of chain
5	ap	230	17% 32% 10% 58%
5	aq	230	17% 36% 12% 52%
5	ar	230	21% 32% 10% 58%
5	as	230	7% 37% 12% 52%
5	at	230	20% 33% 10% 58%
5	au	230	7% 35% 13% 52%
5	av	230	12% 33% 10% 58%
5	aw	230	7% 35% 13% 52%
5	ax	230	10% 32% 10% 58%
5	ay	230	8% 35% 13% 52%
5	az	230	11% 33% 9% 58%
5	bA	230	7% 36% 13% 52%
5	bB	230	13% 33% 10% 58%
5	bC	230	11% 36% 13% 52%
5	bD	230	17% 33% 10% 58%
5	bE	230	10% 36% 13% 52%
5	bF	230	17% 33% 9% 58%
5	bG	230	6% 37% 12% 52%
5	bH	230	18% 33% 10% 58%
5	bI	230	20% 36% 13% 52%
5	bJ	230	29% 32% 10% 58%
5	bK	230	32% 36% 13% 52%
5	bL	230	41% 33% 10% 58%
5	bM	230	24% 35% 13% 52%
5	bN	230	41% 33% 10% 58%

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Mol	Chain	Length	Quality of chain
5	bO	230	21% 35% 13% 52%
5	bP	230	29% 31% 11% 58%
5	bQ	230	41% 35% 13% 52%
5	bR	230	41% 32% 10% 58%
5	bS	230	30% 37% 12% 52%
5	bT	230	42% 32% 10% 58%
5	bU	230	20% 37% 12% 52%
5	bV	230	33% 32% 10% 58%
5	bW	230	19% 35% 13% 52%
5	bX	230	27% 32% 10% 58%
5	bY	230	24% 37% 12% 52%
5	bZ	230	37% 33% 10% 58%
5	ba	230	29% 35% 13% 52%
5	bb	230	39% 32% 10% 58%
5	bc	230	14% 35% 13% 52%
5	bd	230	30% 32% 10% 58%
5	be	230	18% 36% 13% 52%
5	bf	230	31% 33% 10% 58%
5	bg	230	30% 36% 13% 52%
5	bh	230	37% 32% 10% 58%
5	bi	230	25% 37% 12% 52%
5	bj	230	40% 32% 10% 58%
5	bk	230	27% 35% 13% 52%
5	bl	230	37% 32% 10% 58%
5	bm	230	15% 36% 13% 52%

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Mol	Chain	Length	Quality of chain
5	bn	230	32% 32% 10% 58%
5	bo	230	22% 36% 13% 52%
5	bp	230	29% 32% 10% 58%
5	bq	230	35% 36% 13% 52%
5	br	230	39% 32% 10% 58%
5	bs	230	30% 35% 13% 52%
5	bt	230	42% 33% 10% 58%
5	bu	230	18% 35% 13% 52%
5	bv	230	33% 32% 10% 58%
5	bw	230	30% 35% 13% 52%
5	bx	230	37% 31% 11% 58%
5	by	230	29% 37% 11% 52%
5	bz	230	41% 32% 10% 58%
5	cA	230	16% 37% 11% 52%
5	cB	230	37% 32% 10% 58%
5	cC	230	12% 37% 11% 52%
5	cD	230	27% 32% 10% 58%
5	cE	230	23% 37% 11% 52%
5	cF	230	32% 33% 10% 58%
5	cG	230	37% 37% 11% 52%
5	cH	230	42% 32% 10% 58%
5	cI	230	7% 37% 12% 52%
5	cJ	230	31% 31% 11% 58%
5	cK	230	16% 36% 13% 52%
5	cL	230	15% 33% 10% 58%

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Mol	Chain	Length	Quality of chain
5	cM	230	41% 36% 13% 52%
5	cN	230	42% 32% 10% 58%
5	cO	230	25% 36% 13% 52%
5	cP	230	40% 33% 9% 58%
5	cQ	230	24% 35% 13% 52%
5	cR	230	31% 32% 10% 58%
5	cS	230	20% 36% 12% 52%
5	cT	230	38% 31% 11% 58%
5	cU	230	20% 36% 12% 52%
5	cV	230	20% 32% 10% 58%
5	cW	230	15% 36% 13% 52%
5	cX	230	39% 32% 10% 58%
5	cY	230	13% 36% 13% 52%
5	cZ	230	18% 32% 10% 58%
5	ca	230	15% 36% 12% 52%
5	cb	230	17% 33% 10% 58%
5	cc	230	19% 37% 11% 52%
5	cd	230	36% 33% 10% 58%
5	ce	230	7% 37% 12% 52%
5	cf	230	13% 31% 11% 58%
5	cg	230	7% 37% 11% 52%
5	ch	230	17% 33% 10% 58%
5	ci	230	14% 37% 12% 52%
5	cj	230	26% 32% 10% 58%
5	ck	230	6% 35% 13% 52%

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Mol	Chain	Length	Quality of chain
5	cl	230	10% 32% 10% 58%
5	cm	230	26% 36% 13% 52%
5	cn	230	32% 32% 10% 58%
5	co	230	10% 36% 13% 52%
5	cp	230	33% 33% 9% 58%
5	cq	230	12% 35% 13% 52%
5	cr	230	13% 32% 10% 58%
5	cs	230	29% 37% 11% 52%
5	ct	230	34% 33% 10% 58%
5	cu	230	20% 35% 13% 52%
5	cv	230	37% 33% 10% 58%
5	cw	230	11% 36% 13% 52%
5	cx	230	27% 33% 10% 58%
5	cy	230	12% 37% 12% 52%
5	cz	230	17% 32% 10% 58%
5	dA	230	7% 36% 13% 52%
5	dB	230	14% 32% 10% 58%
5	dC	230	6% 36% 13% 52%
5	dD	230	11% 32% 10% 58%
5	dE	230	9% 36% 12% 52%
5	dF	230	24% 33% 10% 58%
5	dG	230	9% 36% 13% 52%
5	dH	230	17% 32% 10% 58%
5	dI	230	10% 36% 13% 52%
5	dJ	230	16% 33% 9% 58%

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Mol	Chain	Length	Quality of chain
5	dK	230	7% 35% 13% 52%
5	dL	230	20% 32% 10% 58%
5	dM	230	10% 36% 13% 52%
5	dN	230	16% 33% 10% 58%
5	dO	230	8% 35% 13% 52%
5	dP	230	12% 32% 10% 58%
5	dQ	230	13% 35% 13% 52%
5	dR	230	13% 32% 10% 58%
5	dS	230	12% 35% 13% 52%
5	dT	230	24% 33% 10% 58%
5	dU	230	5% 35% 13% 52%
5	dV	230	10% 32% 10% 58%
5	dW	230	13% 35% 13% 52%
5	dX	230	8% 32% 10% 58%
5	dY	230	21% 36% 13% 52%
5	dZ	230	32% 33% 10% 58%
5	da	230	8% 35% 13% 52%
5	db	230	14% 32% 10% 58%
5	dc	230	8% 37% 12% 52%
5	dd	230	9% 32% 10% 58%
5	de	230	8% 36% 13% 52%
5	df	230	26% 32% 10% 58%
5	dg	230	7% 34% 14% 52%
5	dh	230	15% 32% 10% 58%
5	di	230	11% 33% 15% 52%

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Mol	Chain	Length	Quality of chain
5	dj	230	16% 33% 10% 58%
5	dk	230	14% 33% 16% 52%
5	dl	230	17% 33% 10% 58%
5	dm	230	11% 33% 15% 52%
5	dn	230	14% 32% 10% 58%
5	do	230	10% 33% 15% 52%
5	dp	230	13% 32% 10% 58%
5	dq	230	11% 34% 14% 52%
5	dr	230	14% 32% 10% 58%
5	ds	230	10% 32% 16% 52%
5	dt	230	10% 32% 10% 58%
5	du	230	13% 33% 16% 52%
5	dv	230	15% 32% 10% 58%
5	dw	230	9% 33% 16% 52%
5	dx	230	7% 32% 10% 58%
5	dy	230	8% 33% 16% 52%
5	dz	230	10% 32% 10% 58%
5	eA	230	11% 34% 14% 52%
5	eB	230	11% 31% 11% 58%
5	eC	230	10% 32% 16% 52%
5	eD	230	14% 32% 10% 58%
5	eE	230	12% 32% 17% 52%
5	eF	230	12% 31% 11% 58%
5	eG	230	17% 34% 14% 52%
5	eH	230	21% 33% 10% 58%

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Mol	Chain	Length	Quality of chain
5	eI	230	16% 32% 16% 52%
5	eJ	230	17% 31% 11% 58%
5	eK	230	13% 34% 14% 52%
5	eL	230	12% 33% 10% 58%
5	eM	230	7% 33% 15% 52%
5	eN	230	8% 31% 11% 58%
5	eO	230	5% 33% 15% 52%
5	eP	230	5% 30% 12% 58%
5	eQ	230	7% 33% 15% 52%
5	eR	230	5% 31% 11% 58%
5	eS	230	7% 33% 15% 52%
5	eT	230	6% 31% 11% 58%
5	eU	230	15% 33% 15% 52%
5	eV	230	13% 32% 10% 58%
5	eW	230	8% 33% 15% 52%
5	eX	230	5% 32% 10% 58%
5	eY	230	8% 33% 15% 52%
5	eZ	230	7% 31% 11% 58%
5	ea	230	6% 33% 15% 52%
5	eb	230	7% 31% 11% 58%
5	ec	230	34% 14% 52%
5	ed	230	5% 31% 11% 58%
5	ee	230	6% 33% 16% 52%
5	ef	230	31% 11% 58%
5	eg	230	5% 33% 15% 52%

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Mol	Chain	Length	Quality of chain
5	eh	230	6% 31% 11% 58%
5	ei	230	5% 33% 16% 52%
5	ej	230	32% 10% 58%
5	ek	230	8% 33% 16% 52%
5	el	230	31% 11% 58%
5	em	230	7% 32% 16% 52%
5	en	230	6% 32% 10% 58%
5	eo	230	10% 33% 15% 52%
5	ep	230	7% 31% 11% 58%
5	eq	230	10% 33% 15% 52%
5	er	230	5% 30% 12% 58%
5	es	230	8% 35% 13% 52%
5	et	230	10% 31% 11% 58%
5	eu	230	8% 36% 13% 52%
5	ev	230	7% 31% 11% 58%
5	ew	230	5% 36% 13% 52%
5	ex	230	8% 31% 11% 58%
5	ey	230	8% 36% 13% 52%
5	ez	230	10% 31% 11% 58%
5	fA	230	9% 35% 13% 52%
5	fB	230	5% 32% 10% 58%
5	fC	230	6% 35% 13% 52%
5	fD	230	7% 32% 10% 58%
5	fE	230	6% 35% 13% 52%
5	fF	230	6% 32% 10% 58%

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Mol	Chain	Length	Quality of chain
5	fG	230	35% 13% 52%
5	fH	230	9% 31% 11% 58%
5	fI	230	10% 35% 13% 52%
5	fJ	230	7% 31% 11% 58%
5	fK	230	6% 36% 13% 52%
5	fL	230	31% 11% 58%
5	fM	230	36% 13% 52%
5	fN	230	9% 32% 10% 58%
5	fO	230	9% 36% 13% 52%
5	fP	230	11% 32% 10% 58%
5	fQ	230	9% 36% 13% 52%
5	fR	230	9% 32% 10% 58%
5	fS	230	9% 36% 13% 52%
5	fT	230	7% 32% 10% 58%
5	fU	230	7% 36% 13% 52%
5	fV	230	15% 33% 9% 58%
5	fW	230	8% 36% 13% 52%
5	fX	230	10% 32% 10% 58%
5	fY	230	23% 37% 11% 52%
5	fZ	230	24% 31% 11% 58%
5	fa	230	22% 37% 11% 52%
5	fb	230	16% 32% 10% 58%
5	fc	230	15% 37% 11% 52%
5	fd	230	11% 31% 11% 58%
5	fe	230	17% 37% 11% 52%

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Mol	Chain	Length	Quality of chain
5	ff	230	19% 31% 11% 58%
5	fg	230	19% 37% 11% 52%
5	fh	230	13% 33% 10% 58%
5	fi	230	14% 37% 11% 52%
5	fj	230	10% 32% 10% 58%
5	fk	230	19% 37% 11% 52%
5	fl	230	17% 32% 10% 58%
5	fm	230	19% 38% 10% 52%
5	fn	230	23% 32% 10% 58%
5	fo	230	17% 37% 11% 52%
5	fp	230	13% 31% 11% 58%
5	fq	230	13% 37% 11% 52%
5	fr	230	11% 32% 10% 58%
5	fs	230	21% 37% 11% 52%
5	ft	230	19% 31% 11% 58%
5	fu	230	13% 37% 11% 52%
5	fv	230	12% 32% 10% 58%
5	fw	230	9% 37% 11% 52%
5	fx	230	8% 31% 11% 58%
5	fy	230	18% 37% 11% 52%
5	fz	230	19% 32% 10% 58%
5	gA	230	18% 37% 11% 52%
5	gB	230	19% 32% 10% 58%
5	gC	230	17% 37% 11% 52%
5	gD	230	18% 31% 11% 58%

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Mol	Chain	Length	Quality of chain
6	Xx	407	5% 70% 12% 18%
6	Xy	407	9% 75% 14% 11%
6	Xz	407	8% 73% 12% 15%
6	YA	407	6% 70% 13% 18%
6	YB	407	6% 74% 13% 14%
6	YC	407	8% 70% 12% 18%
6	YD	407	9% 71% 12% 17%
6	YE	407	8% 73% 12% 16%
6	YF	407	8% 72% 10% 18%
6	YG	407	6% 72% 14% 14%
6	YH	407	5% 73% 13% 13%
6	YI	407	76% 14% 10%

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 2049537 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 Cytosolic protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AA	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	AB	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AC	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AD	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	AE	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AF	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AG	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	AH	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AI	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AJ	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	AK	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AL	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AM	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	AN	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AO	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AP	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	AQ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AR	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AS	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AT	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AU	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AV	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AW	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AX	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AY	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	AZ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Aa	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ab	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ac	300	Total	C	N	O	S	0	0
			2405	1549	390	457	9		
1	Ad	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Ae	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Af	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ag	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Ah	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ai	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Aj	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Ak	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Al	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Am	311	Total	C	N	O	S	0	0
			2505	1614	402	479	10		
1	An	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ao	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ap	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Aq	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ar	311	Total	C	N	O	S	0	0
			2505	1614	402	479	10		
1	As	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	At	297	Total	C	N	O	S	0	0
			2383	1532	385	457	9		
1	Au	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Av	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Aw	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ax	297	Total	C	N	O	S	0	0
			2383	1532	385	457	9		
1	Ay	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Az	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BA	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BB	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BC	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BD	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BE	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BF	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BG	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	BH	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BI	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BJ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BK	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BL	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BM	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BN	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BO	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BP	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BQ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BR	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BS	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BT	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BU	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BV	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BW	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BX	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BY	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	BZ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ba	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Bb	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Bc	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Bd	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Be	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ep	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Eq	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Er	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Es	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Et	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Eu	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ev	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Ew	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ex	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ey	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Ez	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FA	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FB	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	FC	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FD	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FE	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	FF	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FG	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	FH	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FI	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FJ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FK	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FL	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FM	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FN	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FO	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FP	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FQ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FR	300	Total	C	N	O	S	0	0
			2405	1549	390	457	9		
1	FS	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	FT	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FU	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FV	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	FW	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FX	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	FY	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	FZ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fa	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fb	311	Total	C	N	O	S	0	0
			2505	1614	402	479	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Fc	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fd	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fe	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Ff	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fg	311	Total	C	N	O	S	0	0
			2505	1614	402	479	10		
1	Fh	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fi	297	Total	C	N	O	S	0	0
			2383	1532	385	457	9		
1	Fj	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fk	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fl	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fm	297	Total	C	N	O	S	0	0
			2383	1532	385	457	9		
1	Fn	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fo	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fp	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fq	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fr	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fs	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ft	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fu	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fv	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fw	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Fx	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fy	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Fz	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GA	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GB	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GC	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GD	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GE	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GF	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GG	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GH	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GI	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GJ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GK	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GL	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GM	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GN	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GO	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GP	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GQ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GR	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	GS	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	GT	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Je	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Jf	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jg	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jh	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Ji	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jj	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jk	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Jl	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jm	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jn	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Jo	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jp	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jq	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Jr	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Js	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jt	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Ju	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jv	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jw	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Jx	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jy	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Jz	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KA	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KB	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KC	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KD	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KE	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KF	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KG	300	Total	C	N	O	S	0	0
			2405	1549	390	457	9		
1	KH	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	KI	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KJ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KK	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	KL	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KM	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KN	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	KO	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KP	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KQ	311	Total	C	N	O	S	0	0
			2505	1614	402	479	10		
1	KR	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	KS	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KT	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	KU	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KV	311	Total	C	N	O	S	0	0
			2505	1614	402	479	10		
1	KW	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KX	297	Total	C	N	O	S	0	0
			2383	1532	385	457	9		
1	KY	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	KZ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ka	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kb	297	Total	C	N	O	S	0	0
			2383	1532	385	457	9		
1	Kc	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kd	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ke	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kf	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kg	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kh	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ki	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kj	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kk	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kl	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Km	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Kn	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ko	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kp	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kq	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kr	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ks	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kt	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ku	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kv	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kw	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kx	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ky	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Kz	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	LA	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	LB	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	LC	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	LD	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	LE	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	LF	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	LG	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	LH	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	LI	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	OT	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	OU	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	OV	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	OW	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	OX	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	OY	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	OZ	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Oa	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ob	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Oc	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Od	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Oe	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Of	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Og	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Oh	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Oi	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Oj	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ok	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ol	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Om	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	On	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Oo	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Op	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Oq	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Or	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Os	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ot	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ou	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ov	300	Total	C	N	O	S	0	0
			2405	1549	390	457	9		
1	Ow	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Ox	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Oy	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Oz	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	PA	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PB	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PC	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	PD	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PE	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PF	311	Total	C	N	O	S	0	0
			2505	1614	402	479	10		
1	PG	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PH	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	PI	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	PJ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PK	311	Total	C	N	O	S	0	0
			2505	1614	402	479	10		
1	PL	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PM	297	Total	C	N	O	S	0	0
			2383	1532	385	457	9		
1	PN	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PO	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PP	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PQ	297	Total	C	N	O	S	0	0
			2383	1532	385	457	9		
1	PR	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PS	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PT	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PU	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PV	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PW	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PX	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PY	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	PZ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pa	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pb	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pc	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Pd	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pe	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pf	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pg	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ph	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pi	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pj	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pk	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pl	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pm	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pn	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Po	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pp	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pq	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pr	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ps	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pt	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pu	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pv	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Pw	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Px	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	TI	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	TJ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	TK	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	TL	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	TM	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	TN	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	TO	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	TP	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	TQ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	TR	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	TS	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	TT	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	TU	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	TV	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	TW	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	TX	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	TY	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	TZ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ta	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tb	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tc	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Td	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Te	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tf	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tg	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Th	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ti	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tj	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tk	300	Total	C	N	O	S	0	0
			2405	1549	390	457	9		
1	Tl	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Tm	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tn	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	To	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Tp	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tq	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tr	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		
1	Ts	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tt	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tu	311	Total	C	N	O	S	0	0
			2505	1614	402	479	10		
1	Tv	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tw	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tx	309	Total	C	N	O	S	0	0
			2488	1604	400	475	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Ty	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Tz	311	Total	C	N	O	S	0	0
			2505	1614	402	479	10		
1	UA	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UB	297	Total	C	N	O	S	0	0
			2383	1532	385	457	9		
1	UC	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UD	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UE	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UF	297	Total	C	N	O	S	0	0
			2383	1532	385	457	9		
1	UG	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UH	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UI	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UJ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UK	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UL	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UM	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UN	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UO	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UP	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UQ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UR	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	US	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	UT	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UU	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UV	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UW	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UX	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UY	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	UZ	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ua	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ub	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Uc	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ud	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ue	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Uf	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ug	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Uh	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ui	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Uj	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Uk	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Ul	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		
1	Um	313	Total	C	N	O	S	0	0
			2510	1616	404	481	9		

- Molecule 2 is a protein called Decoration protein P03.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Bf	155	Total	C	N	O	S	0	0
			1178	742	197	235	4		
2	Bg	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	Bh	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Bi	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Bj	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Bk	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Bl	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Bm	154	Total	C	N	O	S	0	0
			1170	736	196	234	4		
2	Bn	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Bo	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Bp	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Bq	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	Br	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Bs	168	Total	C	N	O	S	0	0
			1288	813	215	256	4		
2	Bt	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Bu	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Bv	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Bw	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Bx	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	By	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Bz	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	CA	120	Total	C	N	O	S	0	0
			917	584	151	180	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	CB	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	CC	153	Total	C	N	O	S	0	0
			1164	733	194	233	4		
2	CD	160	Total	C	N	O	S	0	0
			1211	759	204	244	4		
2	CE	158	Total	C	N	O	S	0	0
			1194	747	201	242	4		
2	CF	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	CG	175	Total	C	N	O	S	0	0
			1337	840	225	268	4		
2	CH	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	CI	157	Total	C	N	O	S	0	0
			1189	744	200	241	4		
2	CJ	166	Total	C	N	O	S	0	0
			1275	804	213	254	4		
2	CK	168	Total	C	N	O	S	0	0
			1288	813	215	256	4		
2	CL	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	CM	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	CN	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	CO	170	Total	C	N	O	S	0	0
			1304	823	218	259	4		
2	CP	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	CQ	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	CR	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	CS	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	CT	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	CU	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	CV	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	CW	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	CX	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	CY	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	CZ	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Ca	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Cb	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Cc	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Cd	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Ce	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Cf	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Cg	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Ch	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Ci	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	GU	155	Total	C	N	O	S	0	0
			1178	742	197	235	4		
2	GV	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	GW	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	GX	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	GY	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	GZ	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Ga	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Gb	154	Total	C	N	O	S	0	0
			1170	736	196	234	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Gc	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Gd	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Ge	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Gf	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	Gg	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Gh	168	Total	C	N	O	S	0	0
			1288	813	215	256	4		
2	Gi	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Gj	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Gk	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Gl	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Gm	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Gn	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Go	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Gp	120	Total	C	N	O	S	0	0
			917	584	151	180	2		
2	Gq	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Gr	153	Total	C	N	O	S	0	0
			1164	733	194	233	4		
2	Gs	160	Total	C	N	O	S	0	0
			1211	759	204	244	4		
2	Gt	158	Total	C	N	O	S	0	0
			1194	747	201	242	4		
2	Gu	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Gv	175	Total	C	N	O	S	0	0
			1337	840	225	268	4		
2	Gw	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Gx	157	Total	C	N	O	S	0	0
			1189	744	200	241	4		
2	Gy	166	Total	C	N	O	S	0	0
			1275	804	213	254	4		
2	Gz	168	Total	C	N	O	S	0	0
			1288	813	215	256	4		
2	HA	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	HB	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	HC	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	HD	170	Total	C	N	O	S	0	0
			1304	823	218	259	4		
2	HE	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	HF	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	HG	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	HH	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	HI	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	HJ	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	HK	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	HL	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	HM	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	HN	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	HO	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	HP	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	HQ	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	HR	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	HS	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	HT	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	HU	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	HV	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	HW	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	HX	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	LJ	155	Total	C	N	O	S	0	0
			1178	742	197	235	4		
2	LK	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	LL	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	LM	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	LN	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	LO	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	LP	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	LQ	154	Total	C	N	O	S	0	0
			1170	736	196	234	4		
2	LR	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	LS	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	LT	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	LU	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	LV	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	LW	168	Total	C	N	O	S	0	0
			1288	813	215	256	4		
2	LX	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	LY	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	LZ	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	La	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Lb	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Lc	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Ld	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Le	120	Total	C	N	O	S	0	0
			917	584	151	180	2		
2	Lf	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Lg	153	Total	C	N	O	S	0	0
			1164	733	194	233	4		
2	Lh	160	Total	C	N	O	S	0	0
			1211	759	204	244	4		
2	Li	158	Total	C	N	O	S	0	0
			1194	747	201	242	4		
2	Lj	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Lk	175	Total	C	N	O	S	0	0
			1337	840	225	268	4		
2	Ll	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Lm	157	Total	C	N	O	S	0	0
			1189	744	200	241	4		
2	Ln	166	Total	C	N	O	S	0	0
			1275	804	213	254	4		
2	Lo	168	Total	C	N	O	S	0	0
			1288	813	215	256	4		
2	Lp	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	Lq	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Lr	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Ls	170	Total	C	N	O	S	0	0
			1304	823	218	259	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Lt	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Lu	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Lv	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Lw	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Lx	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Ly	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Lz	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	MA	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	MB	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	MC	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	MD	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	ME	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	MF	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	MG	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	MH	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	MI	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	MJ	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	MK	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	ML	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	MM	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Py	155	Total	C	N	O	S	0	0
			1178	742	197	235	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Pz	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	QA	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	QB	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	QC	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	QD	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	QE	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	QF	154	Total	C	N	O	S	0	0
			1170	736	196	234	4		
2	QG	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	QH	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	QI	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	QJ	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	QK	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	QL	168	Total	C	N	O	S	0	0
			1288	813	215	256	4		
2	QM	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	QN	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	QO	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	QP	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	QQ	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	QR	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	QS	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	QT	120	Total	C	N	O	S	0	0
			917	584	151	180	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	QU	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	QV	153	Total	C	N	O	S	0	0
			1164	733	194	233	4		
2	QW	160	Total	C	N	O	S	0	0
			1211	759	204	244	4		
2	QX	158	Total	C	N	O	S	0	0
			1194	747	201	242	4		
2	QY	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	QZ	175	Total	C	N	O	S	0	0
			1337	840	225	268	4		
2	Qa	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Qb	157	Total	C	N	O	S	0	0
			1189	744	200	241	4		
2	Qc	166	Total	C	N	O	S	0	0
			1275	804	213	254	4		
2	Qd	168	Total	C	N	O	S	0	0
			1288	813	215	256	4		
2	Qe	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	Qf	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Qg	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Qh	170	Total	C	N	O	S	0	0
			1304	823	218	259	4		
2	Qi	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Qj	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Qk	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Ql	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Qm	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Qn	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Qo	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Qp	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Qq	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Qr	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Qs	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Qt	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Qu	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Qv	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Qw	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Qx	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Qy	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Qz	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	RA	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	RB	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Un	155	Total	C	N	O	S	0	0
			1178	742	197	235	4		
2	Uo	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	Up	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Uq	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Ur	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Us	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Ut	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Uu	154	Total	C	N	O	S	0	0
			1170	736	196	234	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Uv	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Uw	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Ux	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	Uy	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	Uz	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	VA	168	Total	C	N	O	S	0	0
			1288	813	215	256	4		
2	VB	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	VC	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	VD	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	VE	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	VF	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	VG	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	VH	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	VI	120	Total	C	N	O	S	0	0
			917	584	151	180	2		
2	VJ	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	VK	153	Total	C	N	O	S	0	0
			1164	733	194	233	4		
2	VL	160	Total	C	N	O	S	0	0
			1211	759	204	244	4		
2	VM	158	Total	C	N	O	S	0	0
			1194	747	201	242	4		
2	VN	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	VO	175	Total	C	N	O	S	0	0
			1337	840	225	268	4		
2	VP	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	VQ	157	Total	C	N	O	S	0	0
			1189	744	200	241	4		
2	VR	166	Total	C	N	O	S	0	0
			1275	804	213	254	4		
2	VS	168	Total	C	N	O	S	0	0
			1288	813	215	256	4		
2	VT	152	Total	C	N	O	S	0	0
			1160	730	194	232	4		
2	VU	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	VV	153	Total	C	N	O	S	0	0
			1165	733	195	233	4		
2	VW	170	Total	C	N	O	S	0	0
			1304	823	218	259	4		
2	VX	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	VY	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	VZ	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Va	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Vb	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Vc	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Vd	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Ve	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Vf	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Vg	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Vh	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Vi	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Vj	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Vk	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Vl	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Vm	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		
2	Vn	153	Total	C	N	O	S	0	0
			1161	730	194	233	4		
2	Vo	158	Total	C	N	O	S	0	0
			1198	750	202	242	4		
2	Vp	151	Total	C	N	O	S	0	0
			1148	721	192	231	4		
2	Vq	154	Total	C	N	O	S	0	0
			1173	739	196	234	4		

- Molecule 3 is a protein called Decoration protein P04.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Cj	161	Total	C	N	O	S	0	0
			1252	801	199	245	7		
3	HY	161	Total	C	N	O	S	0	0
			1252	801	199	245	7		
3	MN	161	Total	C	N	O	S	0	0
			1252	801	199	245	7		
3	RC	161	Total	C	N	O	S	0	0
			1252	801	199	245	7		
3	Vr	161	Total	C	N	O	S	0	0
			1252	801	199	245	7		

- Molecule 4 is a protein called DUF228 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	Ck	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	Cl	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	Cm	153	Total	C	N	O	S	0	0
			1203	767	203	231	2		
4	Cn	152	Total	C	N	O	S	0	0
			1197	764	202	229	2		
4	Co	156	Total	C	N	O	S	0	0
			1222	776	208	235	3		
4	Cp	152	Total	C	N	O	S	0	0
			1191	758	202	229	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	Cq	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Cr	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Cs	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Ct	144	Total	C	N	O	S	0	0
			1137	726	191	218	2		
4	Cu	151	Total	C	N	O	S	0	0
			1187	755	201	229	2		
4	Cv	154	Total	C	N	O	S	0	0
			1208	769	205	231	3		
4	Cw	154	Total	C	N	O	S	0	0
			1208	769	205	231	3		
4	Cx	151	Total	C	N	O	S	0	0
			1186	755	201	228	2		
4	Cy	151	Total	C	N	O	S	0	0
			1186	755	201	228	2		
4	Cz	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	DA	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	DB	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	DC	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	DD	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	DE	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	DF	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	DG	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	DH	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	DI	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	DJ	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	HZ	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	Ha	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	Hb	153	Total	C	N	O	S	0	0
			1203	767	203	231	2		
4	Hc	152	Total	C	N	O	S	0	0
			1197	764	202	229	2		
4	Hd	156	Total	C	N	O	S	0	0
			1222	776	208	235	3		
4	He	152	Total	C	N	O	S	0	0
			1191	758	202	229	2		
4	Hf	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Hg	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Hh	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Hi	144	Total	C	N	O	S	0	0
			1137	726	191	218	2		
4	Hj	151	Total	C	N	O	S	0	0
			1187	755	201	229	2		
4	Hk	154	Total	C	N	O	S	0	0
			1208	769	205	231	3		
4	Hl	154	Total	C	N	O	S	0	0
			1208	769	205	231	3		
4	Hm	151	Total	C	N	O	S	0	0
			1186	755	201	228	2		
4	Hn	151	Total	C	N	O	S	0	0
			1186	755	201	228	2		
4	Ho	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	Hp	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Hq	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Hr	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Hs	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Ht	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Hu	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	Hv	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Hw	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Hx	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Hy	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	MO	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	MP	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	MQ	153	Total	C	N	O	S	0	0
			1203	767	203	231	2		
4	MR	152	Total	C	N	O	S	0	0
			1197	764	202	229	2		
4	MS	156	Total	C	N	O	S	0	0
			1222	776	208	235	3		
4	MT	152	Total	C	N	O	S	0	0
			1191	758	202	229	2		
4	MU	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	MV	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	MW	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	MX	144	Total	C	N	O	S	0	0
			1137	726	191	218	2		
4	MY	151	Total	C	N	O	S	0	0
			1187	755	201	229	2		
4	MZ	154	Total	C	N	O	S	0	0
			1208	769	205	231	3		
4	Ma	154	Total	C	N	O	S	0	0
			1208	769	205	231	3		
4	Mb	151	Total	C	N	O	S	0	0
			1186	755	201	228	2		
4	Mc	151	Total	C	N	O	S	0	0
			1186	755	201	228	2		
4	Md	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	Me	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	Mf	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Mg	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Mh	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Mi	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Mj	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Mk	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Ml	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Mm	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Mn	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	RD	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	RE	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	RF	153	Total	C	N	O	S	0	0
			1203	767	203	231	2		
4	RG	152	Total	C	N	O	S	0	0
			1197	764	202	229	2		
4	RH	156	Total	C	N	O	S	0	0
			1222	776	208	235	3		
4	RI	152	Total	C	N	O	S	0	0
			1191	758	202	229	2		
4	RJ	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	RK	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	RL	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	RM	144	Total	C	N	O	S	0	0
			1137	726	191	218	2		
4	RN	151	Total	C	N	O	S	0	0
			1187	755	201	229	2		
4	RO	154	Total	C	N	O	S	0	0
			1208	769	205	231	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	RP	154	Total	C	N	O	S	0	0
			1208	769	205	231	3		
4	RQ	151	Total	C	N	O	S	0	0
			1186	755	201	228	2		
4	RR	151	Total	C	N	O	S	0	0
			1186	755	201	228	2		
4	RS	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	RT	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	RU	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	RV	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	RW	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	RX	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	RY	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	RZ	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Ra	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Rb	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Rc	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	Vs	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	Vt	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	Vu	153	Total	C	N	O	S	0	0
			1203	767	203	231	2		
4	Vv	152	Total	C	N	O	S	0	0
			1197	764	202	229	2		
4	Vw	156	Total	C	N	O	S	0	0
			1222	776	208	235	3		
4	Vx	152	Total	C	N	O	S	0	0
			1191	758	202	229	2		
4	Vy	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	Vz	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	WA	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	WB	144	Total	C	N	O	S	0	0
			1137	726	191	218	2		
4	WC	151	Total	C	N	O	S	0	0
			1187	755	201	229	2		
4	WD	154	Total	C	N	O	S	0	0
			1208	769	205	231	3		
4	WE	154	Total	C	N	O	S	0	0
			1208	769	205	231	3		
4	WF	151	Total	C	N	O	S	0	0
			1186	755	201	228	2		
4	WG	151	Total	C	N	O	S	0	0
			1186	755	201	228	2		
4	WH	152	Total	C	N	O	S	0	0
			1195	761	203	229	2		
4	WI	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	WJ	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	WK	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	WL	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	WM	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	WN	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	WO	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	WP	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	WQ	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		
4	WR	171	Total	C	N	O	S	0	0
			1358	865	231	260	2		

There are 260 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Ck	86	GLN	HIS	conflict	UNP A0A0H3BZR0

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Chain	Residue	Modelled	Actual	Comment	Reference
Ck	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cl	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cl	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cm	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cm	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cn	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cn	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Co	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Co	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cp	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cp	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cq	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cq	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cr	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cr	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cs	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cs	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Ct	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Ct	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cu	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cu	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cv	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cv	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cw	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cw	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cx	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cx	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cy	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cy	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Cz	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Cz	142	ILE	VAL	conflict	UNP A0A0H3BZR0
DA	86	GLN	HIS	conflict	UNP A0A0H3BZR0
DA	142	ILE	VAL	conflict	UNP A0A0H3BZR0
DB	86	GLN	HIS	conflict	UNP A0A0H3BZR0
DB	142	ILE	VAL	conflict	UNP A0A0H3BZR0
DC	86	GLN	HIS	conflict	UNP A0A0H3BZR0
DC	142	ILE	VAL	conflict	UNP A0A0H3BZR0
DD	86	GLN	HIS	conflict	UNP A0A0H3BZR0
DD	142	ILE	VAL	conflict	UNP A0A0H3BZR0
DE	86	GLN	HIS	conflict	UNP A0A0H3BZR0
DE	142	ILE	VAL	conflict	UNP A0A0H3BZR0
DF	86	GLN	HIS	conflict	UNP A0A0H3BZR0

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Chain	Residue	Modelled	Actual	Comment	Reference
DF	142	ILE	VAL	conflict	UNP A0A0H3BZR0
DG	86	GLN	HIS	conflict	UNP A0A0H3BZR0
DG	142	ILE	VAL	conflict	UNP A0A0H3BZR0
DH	86	GLN	HIS	conflict	UNP A0A0H3BZR0
DH	142	ILE	VAL	conflict	UNP A0A0H3BZR0
DI	86	GLN	HIS	conflict	UNP A0A0H3BZR0
DI	142	ILE	VAL	conflict	UNP A0A0H3BZR0
DJ	86	GLN	HIS	conflict	UNP A0A0H3BZR0
DJ	142	ILE	VAL	conflict	UNP A0A0H3BZR0
HZ	86	GLN	HIS	conflict	UNP A0A0H3BZR0
HZ	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Ha	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Ha	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hb	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hb	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hc	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hc	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hd	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hd	142	ILE	VAL	conflict	UNP A0A0H3BZR0
He	86	GLN	HIS	conflict	UNP A0A0H3BZR0
He	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hf	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hf	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hg	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hg	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hh	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hh	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hi	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hi	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hj	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hj	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hk	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hk	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hl	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hl	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hm	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hm	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hn	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hn	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Ho	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Ho	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hp	86	GLN	HIS	conflict	UNP A0A0H3BZR0

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Chain	Residue	Modelled	Actual	Comment	Reference
Hp	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hq	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hq	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hr	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hr	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hs	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hs	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Ht	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Ht	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hu	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hu	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hv	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hv	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hw	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hw	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hx	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hx	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Hy	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Hy	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MO	86	GLN	HIS	conflict	UNP A0A0H3BZR0
MO	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MP	86	GLN	HIS	conflict	UNP A0A0H3BZR0
MP	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MQ	86	GLN	HIS	conflict	UNP A0A0H3BZR0
MQ	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MR	86	GLN	HIS	conflict	UNP A0A0H3BZR0
MR	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MS	86	GLN	HIS	conflict	UNP A0A0H3BZR0
MS	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MT	86	GLN	HIS	conflict	UNP A0A0H3BZR0
MT	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MU	86	GLN	HIS	conflict	UNP A0A0H3BZR0
MU	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MV	86	GLN	HIS	conflict	UNP A0A0H3BZR0
MV	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MW	86	GLN	HIS	conflict	UNP A0A0H3BZR0
MW	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MX	86	GLN	HIS	conflict	UNP A0A0H3BZR0
MX	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MY	86	GLN	HIS	conflict	UNP A0A0H3BZR0
MY	142	ILE	VAL	conflict	UNP A0A0H3BZR0
MZ	86	GLN	HIS	conflict	UNP A0A0H3BZR0

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Chain	Residue	Modelled	Actual	Comment	Reference
MZ	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Ma	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Ma	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Mb	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Mb	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Mc	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Mc	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Md	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Md	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Me	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Me	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Mf	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Mf	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Mg	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Mg	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Mh	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Mh	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Mi	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Mi	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Mj	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Mj	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Mk	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Mk	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Ml	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Ml	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Mm	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Mm	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Mn	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Mn	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RD	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RD	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RE	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RE	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RF	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RF	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RG	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RG	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RH	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RH	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RI	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RI	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RJ	86	GLN	HIS	conflict	UNP A0A0H3BZR0

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Chain	Residue	Modelled	Actual	Comment	Reference
RJ	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RK	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RK	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RL	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RL	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RM	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RM	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RN	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RN	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RO	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RO	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RP	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RP	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RQ	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RQ	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RR	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RR	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RS	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RS	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RT	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RT	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RU	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RU	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RV	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RV	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RW	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RW	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RX	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RX	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RY	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RY	142	ILE	VAL	conflict	UNP A0A0H3BZR0
RZ	86	GLN	HIS	conflict	UNP A0A0H3BZR0
RZ	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Ra	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Ra	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Rb	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Rb	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Rc	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Rc	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Vs	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Vs	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Vt	86	GLN	HIS	conflict	UNP A0A0H3BZR0

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Chain	Residue	Modelled	Actual	Comment	Reference
Vt	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Vu	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Vu	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Vv	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Vv	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Vw	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Vw	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Vx	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Vx	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Vy	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Vy	142	ILE	VAL	conflict	UNP A0A0H3BZR0
Vz	86	GLN	HIS	conflict	UNP A0A0H3BZR0
Vz	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WA	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WA	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WB	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WB	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WC	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WC	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WD	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WD	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WE	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WE	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WF	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WF	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WG	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WG	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WH	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WH	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WI	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WI	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WJ	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WJ	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WK	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WK	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WL	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WL	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WM	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WM	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WN	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WN	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WO	86	GLN	HIS	conflict	UNP A0A0H3BZR0

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Chain	Residue	Modelled	Actual	Comment	Reference
WO	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WP	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WP	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WQ	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WQ	142	ILE	VAL	conflict	UNP A0A0H3BZR0
WR	86	GLN	HIS	conflict	UNP A0A0H3BZR0
WR	142	ILE	VAL	conflict	UNP A0A0H3BZR0

- Molecule 5 is a protein called Scaffold protein.

Mol	Chain	Residues	Atoms	AltConf	Trace
5	DK	30	Total C N O 266 174 47 45	0	0
5	DL	37	Total C N O 315 203 55 57	0	0
5	DM	37	Total C N O 315 203 55 57	0	0
5	DN	37	Total C N O 315 203 55 57	0	0
5	DO	37	Total C N O 315 203 55 57	0	0
5	DP	37	Total C N O 315 203 55 57	0	0
5	DQ	37	Total C N O 315 203 55 57	0	0
5	DR	37	Total C N O 315 203 55 57	0	0
5	DS	37	Total C N O 315 203 55 57	0	0
5	DT	37	Total C N O 315 203 55 57	0	0
5	DU	37	Total C N O 315 203 55 57	0	0
5	DV	37	Total C N O 315 203 55 57	0	0
5	DW	30	Total C N O 266 174 47 45	0	0
5	DX	37	Total C N O 315 203 55 57	0	0
5	DY	37	Total C N O 315 203 55 57	0	0
5	DZ	37	Total C N O 315 203 55 57	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	Da	37	Total	C	N	O	0	0
			315	203	55	57		
5	Db	37	Total	C	N	O	0	0
			315	203	55	57		
5	Dc	37	Total	C	N	O	0	0
			315	203	55	57		
5	Dd	30	Total	C	N	O	0	0
			266	174	47	45		
5	De	37	Total	C	N	O	0	0
			315	203	55	57		
5	Df	26	Total	C	N	O	0	0
			233	149	43	41		
5	Dg	26	Total	C	N	O	0	0
			233	149	43	41		
5	Dh	30	Total	C	N	O	0	0
			266	174	47	45		
5	Di	30	Total	C	N	O	0	0
			266	174	47	45		
5	Dj	30	Total	C	N	O	0	0
			266	174	47	45		
5	Dk	30	Total	C	N	O	0	0
			266	174	47	45		
5	Dl	37	Total	C	N	O	0	0
			315	203	55	57		
5	Dm	29	Total	C	N	O	0	0
			255	165	46	44		
5	Dn	37	Total	C	N	O	0	0
			315	203	55	57		
5	Do	37	Total	C	N	O	0	0
			315	203	55	57		
5	Dp	37	Total	C	N	O	0	0
			315	203	55	57		
5	Dq	37	Total	C	N	O	0	0
			315	203	55	57		
5	Dr	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ds	37	Total	C	N	O	0	0
			315	203	55	57		
5	Dt	37	Total	C	N	O	0	0
			315	203	55	57		
5	Du	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	Dv	37	Total	C	N	O	0	0
			315	203	55	57		
5	Dw	28	Total	C	N	O	0	0
			248	160	45	43		
5	Dx	37	Total	C	N	O	0	0
			315	203	55	57		
5	Dy	37	Total	C	N	O	0	0
			315	203	55	57		
5	Dz	37	Total	C	N	O	0	0
			315	203	55	57		
5	EA	26	Total	C	N	O	0	0
			233	149	43	41		
5	EB	29	Total	C	N	O	0	0
			255	165	46	44		
5	EC	37	Total	C	N	O	0	0
			315	203	55	57		
5	ED	29	Total	C	N	O	0	0
			255	165	46	44		
5	EE	37	Total	C	N	O	0	0
			315	203	55	57		
5	EF	26	Total	C	N	O	0	0
			233	149	43	41		
5	EG	37	Total	C	N	O	0	0
			315	203	55	57		
5	EH	29	Total	C	N	O	0	0
			255	165	46	44		
5	EI	30	Total	C	N	O	0	0
			266	174	47	45		
5	EJ	30	Total	C	N	O	0	0
			266	174	47	45		
5	EK	30	Total	C	N	O	0	0
			266	174	47	45		
5	EL	40	Total	C	N	O	0	0
			345	221	64	60		
5	EM	37	Total	C	N	O	0	0
			315	203	55	57		
5	EN	37	Total	C	N	O	0	0
			315	203	55	57		
5	EO	40	Total	C	N	O	0	0
			345	221	64	60		
5	EP	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	EQ	37	Total	C	N	O	0	0
			315	203	55	57		
5	ER	40	Total	C	N	O	0	0
			345	221	64	60		
5	ES	37	Total	C	N	O	0	0
			315	203	55	57		
5	ET	26	Total	C	N	O	0	0
			233	149	43	41		
5	EU	40	Total	C	N	O	0	0
			345	221	64	60		
5	EV	37	Total	C	N	O	0	0
			315	203	55	57		
5	EW	37	Total	C	N	O	0	0
			315	203	55	57		
5	EX	37	Total	C	N	O	0	0
			315	203	55	57		
5	EY	40	Total	C	N	O	0	0
			345	221	64	60		
5	EZ	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ea	40	Total	C	N	O	0	0
			345	221	64	60		
5	Eb	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ec	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ed	29	Total	C	N	O	0	0
			263	167	52	44		
5	Ee	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ef	37	Total	C	N	O	0	0
			315	203	55	57		
5	Eg	29	Total	C	N	O	0	0
			263	167	52	44		
5	Eh	26	Total	C	N	O	0	0
			233	149	43	41		
5	Ei	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ej	40	Total	C	N	O	0	0
			345	221	64	60		
5	Ek	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	El	37	Total	C	N	O	0	0
			315	203	55	57		
5	Em	26	Total	C	N	O	0	0
			233	149	43	41		
5	En	40	Total	C	N	O	0	0
			345	221	64	60		
5	Eo	37	Total	C	N	O	0	0
			315	203	55	57		
5	Hz	30	Total	C	N	O	0	0
			266	174	47	45		
5	IA	37	Total	C	N	O	0	0
			315	203	55	57		
5	IB	37	Total	C	N	O	0	0
			315	203	55	57		
5	IC	37	Total	C	N	O	0	0
			315	203	55	57		
5	ID	37	Total	C	N	O	0	0
			315	203	55	57		
5	IE	37	Total	C	N	O	0	0
			315	203	55	57		
5	IF	37	Total	C	N	O	0	0
			315	203	55	57		
5	IG	37	Total	C	N	O	0	0
			315	203	55	57		
5	IH	37	Total	C	N	O	0	0
			315	203	55	57		
5	II	37	Total	C	N	O	0	0
			315	203	55	57		
5	IJ	37	Total	C	N	O	0	0
			315	203	55	57		
5	IK	37	Total	C	N	O	0	0
			315	203	55	57		
5	IL	30	Total	C	N	O	0	0
			266	174	47	45		
5	IM	37	Total	C	N	O	0	0
			315	203	55	57		
5	IN	37	Total	C	N	O	0	0
			315	203	55	57		
5	IO	37	Total	C	N	O	0	0
			315	203	55	57		
5	IP	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	IQ	37	Total	C	N	O	0	0
			315	203	55	57		
5	IR	37	Total	C	N	O	0	0
			315	203	55	57		
5	IS	30	Total	C	N	O	0	0
			266	174	47	45		
5	IT	37	Total	C	N	O	0	0
			315	203	55	57		
5	IU	37	Total	C	N	O	0	0
			315	203	55	57		
5	IV	37	Total	C	N	O	0	0
			315	203	55	57		
5	IW	30	Total	C	N	O	0	0
			266	174	47	45		
5	IX	30	Total	C	N	O	0	0
			266	174	47	45		
5	IY	30	Total	C	N	O	0	0
			266	174	47	45		
5	IZ	30	Total	C	N	O	0	0
			266	174	47	45		
5	Ia	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ib	29	Total	C	N	O	0	0
			255	165	46	44		
5	Ic	37	Total	C	N	O	0	0
			315	203	55	57		
5	Id	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ie	37	Total	C	N	O	0	0
			315	203	55	57		
5	If	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ig	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ih	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ii	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ij	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ik	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	Il	28	Total	C	N	O	0	0
			248	160	45	43		
5	Im	37	Total	C	N	O	0	0
			315	203	55	57		
5	In	37	Total	C	N	O	0	0
			315	203	55	57		
5	Io	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ip	26	Total	C	N	O	0	0
			233	149	43	41		
5	Iq	29	Total	C	N	O	0	0
			255	165	46	44		
5	Ir	37	Total	C	N	O	0	0
			315	203	55	57		
5	Is	29	Total	C	N	O	0	0
			255	165	46	44		
5	It	37	Total	C	N	O	0	0
			315	203	55	57		
5	Iu	37	Total	C	N	O	0	0
			315	203	55	57		
5	Iv	37	Total	C	N	O	0	0
			315	203	55	57		
5	Iw	29	Total	C	N	O	0	0
			255	165	46	44		
5	Ix	30	Total	C	N	O	0	0
			266	174	47	45		
5	Iy	30	Total	C	N	O	0	0
			266	174	47	45		
5	Iz	30	Total	C	N	O	0	0
			266	174	47	45		
5	JA	40	Total	C	N	O	0	0
			345	221	64	60		
5	JB	37	Total	C	N	O	0	0
			315	203	55	57		
5	JC	37	Total	C	N	O	0	0
			315	203	55	57		
5	JD	40	Total	C	N	O	0	0
			345	221	64	60		
5	JE	37	Total	C	N	O	0	0
			315	203	55	57		
5	JF	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	JG	40	Total	C	N	O	0	0
			345	221	64	60		
5	JH	37	Total	C	N	O	0	0
			315	203	55	57		
5	JI	37	Total	C	N	O	0	0
			315	203	55	57		
5	JJ	40	Total	C	N	O	0	0
			345	221	64	60		
5	JK	26	Total	C	N	O	0	0
			233	149	43	41		
5	JL	37	Total	C	N	O	0	0
			315	203	55	57		
5	JM	37	Total	C	N	O	0	0
			315	203	55	57		
5	JN	40	Total	C	N	O	0	0
			345	221	64	60		
5	JO	37	Total	C	N	O	0	0
			315	203	55	57		
5	JP	40	Total	C	N	O	0	0
			345	221	64	60		
5	JQ	37	Total	C	N	O	0	0
			315	203	55	57		
5	JR	37	Total	C	N	O	0	0
			315	203	55	57		
5	JS	40	Total	C	N	O	0	0
			345	221	64	60		
5	JT	37	Total	C	N	O	0	0
			315	203	55	57		
5	JU	37	Total	C	N	O	0	0
			315	203	55	57		
5	JV	40	Total	C	N	O	0	0
			345	221	64	60		
5	JW	37	Total	C	N	O	0	0
			315	203	55	57		
5	JX	37	Total	C	N	O	0	0
			315	203	55	57		
5	JY	40	Total	C	N	O	0	0
			345	221	64	60		
5	JZ	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ja	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	Jb	37	Total	C	N	O	0	0
			315	203	55	57		
5	Jc	40	Total	C	N	O	0	0
			345	221	64	60		
5	Jd	37	Total	C	N	O	0	0
			315	203	55	57		
5	Mo	30	Total	C	N	O	0	0
			266	174	47	45		
5	Mp	37	Total	C	N	O	0	0
			315	203	55	57		
5	Mq	37	Total	C	N	O	0	0
			315	203	55	57		
5	Mr	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ms	37	Total	C	N	O	0	0
			315	203	55	57		
5	Mt	37	Total	C	N	O	0	0
			315	203	55	57		
5	Mu	37	Total	C	N	O	0	0
			315	203	55	57		
5	Mv	37	Total	C	N	O	0	0
			315	203	55	57		
5	Mw	37	Total	C	N	O	0	0
			315	203	55	57		
5	Mx	37	Total	C	N	O	0	0
			315	203	55	57		
5	My	37	Total	C	N	O	0	0
			315	203	55	57		
5	Mz	37	Total	C	N	O	0	0
			315	203	55	57		
5	NA	30	Total	C	N	O	0	0
			266	174	47	45		
5	NB	37	Total	C	N	O	0	0
			315	203	55	57		
5	NC	37	Total	C	N	O	0	0
			315	203	55	57		
5	ND	37	Total	C	N	O	0	0
			315	203	55	57		
5	NE	37	Total	C	N	O	0	0
			315	203	55	57		
5	NF	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	NG	37	Total	C	N	O	0	0
			315	203	55	57		
5	NH	30	Total	C	N	O	0	0
			266	174	47	45		
5	NI	37	Total	C	N	O	0	0
			315	203	55	57		
5	NJ	37	Total	C	N	O	0	0
			315	203	55	57		
5	NK	37	Total	C	N	O	0	0
			315	203	55	57		
5	NL	30	Total	C	N	O	0	0
			266	174	47	45		
5	NM	30	Total	C	N	O	0	0
			266	174	47	45		
5	NN	30	Total	C	N	O	0	0
			266	174	47	45		
5	NO	30	Total	C	N	O	0	0
			266	174	47	45		
5	NP	37	Total	C	N	O	0	0
			315	203	55	57		
5	NQ	29	Total	C	N	O	0	0
			255	165	46	44		
5	NR	37	Total	C	N	O	0	0
			315	203	55	57		
5	NS	37	Total	C	N	O	0	0
			315	203	55	57		
5	NT	37	Total	C	N	O	0	0
			315	203	55	57		
5	NU	37	Total	C	N	O	0	0
			315	203	55	57		
5	NV	37	Total	C	N	O	0	0
			315	203	55	57		
5	NW	37	Total	C	N	O	0	0
			315	203	55	57		
5	NX	37	Total	C	N	O	0	0
			315	203	55	57		
5	NY	37	Total	C	N	O	0	0
			315	203	55	57		
5	NZ	37	Total	C	N	O	0	0
			315	203	55	57		
5	Na	28	Total	C	N	O	0	0
			248	160	45	43		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	Nb	37	Total	C	N	O	0	0
			315	203	55	57		
5	Nc	37	Total	C	N	O	0	0
			315	203	55	57		
5	Nd	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ne	37	Total	C	N	O	0	0
			315	203	55	57		
5	Nf	29	Total	C	N	O	0	0
			255	165	46	44		
5	Ng	37	Total	C	N	O	0	0
			315	203	55	57		
5	Nh	29	Total	C	N	O	0	0
			255	165	46	44		
5	Ni	37	Total	C	N	O	0	0
			315	203	55	57		
5	Nj	37	Total	C	N	O	0	0
			315	203	55	57		
5	Nk	37	Total	C	N	O	0	0
			315	203	55	57		
5	Nl	29	Total	C	N	O	0	0
			255	165	46	44		
5	Nm	30	Total	C	N	O	0	0
			266	174	47	45		
5	Nn	30	Total	C	N	O	0	0
			266	174	47	45		
5	No	30	Total	C	N	O	0	0
			266	174	47	45		
5	Np	40	Total	C	N	O	0	0
			345	221	64	60		
5	Nq	37	Total	C	N	O	0	0
			315	203	55	57		
5	Nr	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ns	40	Total	C	N	O	0	0
			345	221	64	60		
5	Nt	37	Total	C	N	O	0	0
			315	203	55	57		
5	Nu	37	Total	C	N	O	0	0
			315	203	55	57		
5	Nv	40	Total	C	N	O	0	0
			345	221	64	60		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	Nw	37	Total	C	N	O	0	0
			315	203	55	57		
5	Nx	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ny	40	Total	C	N	O	0	0
			345	221	64	60		
5	Nz	37	Total	C	N	O	0	0
			315	203	55	57		
5	OA	26	Total	C	N	O	0	0
			233	149	43	41		
5	OB	37	Total	C	N	O	0	0
			315	203	55	57		
5	OC	40	Total	C	N	O	0	0
			345	221	64	60		
5	OD	37	Total	C	N	O	0	0
			315	203	55	57		
5	OE	40	Total	C	N	O	0	0
			345	221	64	60		
5	OF	37	Total	C	N	O	0	0
			315	203	55	57		
5	OG	37	Total	C	N	O	0	0
			315	203	55	57		
5	OH	40	Total	C	N	O	0	0
			345	221	64	60		
5	OI	37	Total	C	N	O	0	0
			315	203	55	57		
5	OJ	26	Total	C	N	O	0	0
			233	149	43	41		
5	OK	40	Total	C	N	O	0	0
			345	221	64	60		
5	OL	37	Total	C	N	O	0	0
			315	203	55	57		
5	OM	37	Total	C	N	O	0	0
			315	203	55	57		
5	ON	29	Total	C	N	O	0	0
			263	167	52	44		
5	OO	37	Total	C	N	O	0	0
			315	203	55	57		
5	OP	37	Total	C	N	O	0	0
			315	203	55	57		
5	OQ	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	OR	40	Total	C	N	O	0	0
			345	221	64	60		
5	OS	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rd	30	Total	C	N	O	0	0
			266	174	47	45		
5	Re	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rf	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rg	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rh	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ri	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rj	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rk	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rl	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rm	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rn	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ro	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rp	30	Total	C	N	O	0	0
			266	174	47	45		
5	Rq	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rr	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rs	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rt	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ru	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rv	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	Rw	30	Total	C	N	O	0	0
			266	174	47	45		
5	Rx	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ry	37	Total	C	N	O	0	0
			315	203	55	57		
5	Rz	37	Total	C	N	O	0	0
			315	203	55	57		
5	SA	30	Total	C	N	O	0	0
			266	174	47	45		
5	SB	30	Total	C	N	O	0	0
			266	174	47	45		
5	SC	30	Total	C	N	O	0	0
			266	174	47	45		
5	SD	30	Total	C	N	O	0	0
			266	174	47	45		
5	SE	37	Total	C	N	O	0	0
			315	203	55	57		
5	SF	29	Total	C	N	O	0	0
			255	165	46	44		
5	SG	37	Total	C	N	O	0	0
			315	203	55	57		
5	SH	37	Total	C	N	O	0	0
			315	203	55	57		
5	SI	37	Total	C	N	O	0	0
			315	203	55	57		
5	SJ	37	Total	C	N	O	0	0
			315	203	55	57		
5	SK	37	Total	C	N	O	0	0
			315	203	55	57		
5	SL	37	Total	C	N	O	0	0
			315	203	55	57		
5	SM	37	Total	C	N	O	0	0
			315	203	55	57		
5	SN	37	Total	C	N	O	0	0
			315	203	55	57		
5	SO	37	Total	C	N	O	0	0
			315	203	55	57		
5	SP	28	Total	C	N	O	0	0
			248	160	45	43		
5	SQ	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	SR	37	Total	C	N	O	0	0
			315	203	55	57		
5	SS	37	Total	C	N	O	0	0
			315	203	55	57		
5	ST	37	Total	C	N	O	0	0
			315	203	55	57		
5	SU	29	Total	C	N	O	0	0
			255	165	46	44		
5	SV	37	Total	C	N	O	0	0
			315	203	55	57		
5	SW	29	Total	C	N	O	0	0
			255	165	46	44		
5	SX	37	Total	C	N	O	0	0
			315	203	55	57		
5	SY	26	Total	C	N	O	0	0
			233	149	43	41		
5	SZ	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sa	29	Total	C	N	O	0	0
			255	165	46	44		
5	Sb	30	Total	C	N	O	0	0
			266	174	47	45		
5	Sc	30	Total	C	N	O	0	0
			266	174	47	45		
5	Sd	30	Total	C	N	O	0	0
			266	174	47	45		
5	Se	40	Total	C	N	O	0	0
			345	221	64	60		
5	Sf	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sg	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sh	40	Total	C	N	O	0	0
			345	221	64	60		
5	Si	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sj	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sk	40	Total	C	N	O	0	0
			345	221	64	60		
5	Sl	26	Total	C	N	O	0	0
			233	149	43	41		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	Sm	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sn	40	Total	C	N	O	0	0
			345	221	64	60		
5	So	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sp	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sq	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sr	40	Total	C	N	O	0	0
			345	221	64	60		
5	Ss	37	Total	C	N	O	0	0
			315	203	55	57		
5	St	40	Total	C	N	O	0	0
			345	221	64	60		
5	Su	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sv	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sw	40	Total	C	N	O	0	0
			345	221	64	60		
5	Sx	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sy	37	Total	C	N	O	0	0
			315	203	55	57		
5	Sz	40	Total	C	N	O	0	0
			345	221	64	60		
5	TA	37	Total	C	N	O	0	0
			315	203	55	57		
5	TB	37	Total	C	N	O	0	0
			315	203	55	57		
5	TC	29	Total	C	N	O	0	0
			263	167	52	44		
5	TD	37	Total	C	N	O	0	0
			315	203	55	57		
5	TE	37	Total	C	N	O	0	0
			315	203	55	57		
5	TF	37	Total	C	N	O	0	0
			315	203	55	57		
5	TG	40	Total	C	N	O	0	0
			345	221	64	60		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	TH	37	Total	C	N	O	0	0
			315	203	55	57		
5	WS	30	Total	C	N	O	0	0
			266	174	47	45		
5	WT	37	Total	C	N	O	0	0
			315	203	55	57		
5	WU	37	Total	C	N	O	0	0
			315	203	55	57		
5	WV	37	Total	C	N	O	0	0
			315	203	55	57		
5	WW	37	Total	C	N	O	0	0
			315	203	55	57		
5	WX	37	Total	C	N	O	0	0
			315	203	55	57		
5	WY	37	Total	C	N	O	0	0
			315	203	55	57		
5	WZ	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wa	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wb	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wc	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wd	26	Total	C	N	O	0	0
			233	149	43	41		
5	We	30	Total	C	N	O	0	0
			266	174	47	45		
5	Wf	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wg	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wh	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wi	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wj	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wk	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wl	30	Total	C	N	O	0	0
			266	174	47	45		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	Wm	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wn	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wo	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wp	30	Total	C	N	O	0	0
			266	174	47	45		
5	Wq	30	Total	C	N	O	0	0
			266	174	47	45		
5	Wr	30	Total	C	N	O	0	0
			266	174	47	45		
5	Ws	30	Total	C	N	O	0	0
			266	174	47	45		
5	Wt	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wu	29	Total	C	N	O	0	0
			255	165	46	44		
5	Wv	37	Total	C	N	O	0	0
			315	203	55	57		
5	Ww	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wx	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wy	37	Total	C	N	O	0	0
			315	203	55	57		
5	Wz	37	Total	C	N	O	0	0
			315	203	55	57		
5	XA	37	Total	C	N	O	0	0
			315	203	55	57		
5	XB	37	Total	C	N	O	0	0
			315	203	55	57		
5	XC	37	Total	C	N	O	0	0
			315	203	55	57		
5	XD	37	Total	C	N	O	0	0
			315	203	55	57		
5	XE	28	Total	C	N	O	0	0
			248	160	45	43		
5	XF	37	Total	C	N	O	0	0
			315	203	55	57		
5	XG	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	XH	37	Total	C	N	O	0	0
			315	203	55	57		
5	XI	37	Total	C	N	O	0	0
			315	203	55	57		
5	XJ	29	Total	C	N	O	0	0
			255	165	46	44		
5	XK	37	Total	C	N	O	0	0
			315	203	55	57		
5	XL	29	Total	C	N	O	0	0
			255	165	46	44		
5	XM	37	Total	C	N	O	0	0
			315	203	55	57		
5	XN	37	Total	C	N	O	0	0
			315	203	55	57		
5	XO	37	Total	C	N	O	0	0
			315	203	55	57		
5	XP	29	Total	C	N	O	0	0
			255	165	46	44		
5	XQ	30	Total	C	N	O	0	0
			266	174	47	45		
5	XR	30	Total	C	N	O	0	0
			266	174	47	45		
5	XS	30	Total	C	N	O	0	0
			266	174	47	45		
5	XT	40	Total	C	N	O	0	0
			345	221	64	60		
5	XU	26	Total	C	N	O	0	0
			233	149	43	41		
5	XV	37	Total	C	N	O	0	0
			315	203	55	57		
5	XW	40	Total	C	N	O	0	0
			345	221	64	60		
5	XX	37	Total	C	N	O	0	0
			315	203	55	57		
5	XY	37	Total	C	N	O	0	0
			315	203	55	57		
5	XZ	40	Total	C	N	O	0	0
			345	221	64	60		
5	Xa	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xb	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	Xc	40	Total	C	N	O	0	0
			345	221	64	60		
5	Xd	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xe	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xf	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xg	29	Total	C	N	O	0	0
			263	167	52	44		
5	Xh	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xi	40	Total	C	N	O	0	0
			345	221	64	60		
5	Xj	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xk	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xl	40	Total	C	N	O	0	0
			345	221	64	60		
5	Xm	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xn	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xo	40	Total	C	N	O	0	0
			345	221	64	60		
5	Xp	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xq	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xr	40	Total	C	N	O	0	0
			345	221	64	60		
5	Xs	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xt	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xu	37	Total	C	N	O	0	0
			315	203	55	57		
5	Xv	40	Total	C	N	O	0	0
			345	221	64	60		
5	Xw	37	Total	C	N	O	0	0
			315	203	55	57		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	YJ	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	YK	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	YL	89	Total	C	N	O	S	0	0
			717	458	129	129	1		
5	YM	89	Total	C	N	O	S	0	0
			717	458	129	129	1		
5	YN	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	YO	89	Total	C	N	O	S	0	0
			717	458	129	129	1		
5	YP	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	YQ	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	YR	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	YS	89	Total	C	N	O	S	0	0
			717	458	129	129	1		
5	YT	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	YU	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	YV	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	YW	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	YX	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	YY	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	YZ	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Ya	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yb	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Yc	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yd	97	Total	C	N	O	S	0	0
			790	501	143	145	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Ye	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yf	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Yg	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yh	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yi	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Yj	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yk	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yl	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Ym	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yn	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Yo	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yp	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Yq	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yr	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Ys	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yt	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Yu	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yv	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Yw	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Yx	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Yy	111	Total	C	N	O	S	0	0
			904	572	163	168	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Yz	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ZA	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZB	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ZC	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZD	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ZE	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZF	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ZG	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZH	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ZI	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZJ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ZK	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZL	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ZM	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZN	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ZO	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZP	93	Total	C	N	O	S	0	0
			754	477	135	141	1		
5	ZQ	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZR	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ZS	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZT	97	Total	C	N	O	S	0	0
			790	501	143	145	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	ZU	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZV	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ZW	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZX	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ZY	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ZZ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Za	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zb	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Zc	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zd	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Ze	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zf	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Zg	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zh	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Zi	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zj	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Zk	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zl	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Zm	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zn	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Zo	111	Total	C	N	O	S	0	0
			904	572	163	168	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Zp	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Zq	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zr	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Zs	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zt	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Zu	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zv	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Zw	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zx	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	Zy	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	Zz	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aA	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aB	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aC	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aD	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aE	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aF	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aG	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aH	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aI	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aJ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	aK	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aL	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aM	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aN	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aO	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aP	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aQ	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aR	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aS	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aT	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aU	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aV	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aW	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aX	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aY	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aZ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aa	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ab	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ac	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ad	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ae	111	Total	C	N	O	S	0	0
			904	572	163	168	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	af	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ag	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ah	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ai	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	aj	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ak	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	al	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	am	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	an	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ao	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ap	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aq	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ar	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	as	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	at	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	au	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	av	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	aw	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ax	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ay	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	az	97	Total	C	N	O	S	0	0
			790	501	143	145	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	bA	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bB	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bC	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bD	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bE	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bF	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bG	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bH	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bI	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bJ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bK	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bL	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bM	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bN	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bO	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bP	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bQ	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bR	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bS	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bT	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bU	111	Total	C	N	O	S	0	0
			904	572	163	168	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	bV	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bW	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bX	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bY	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bZ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ba	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bb	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bc	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bd	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	be	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bf	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bg	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bh	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bi	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bj	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bk	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bl	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bm	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bn	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bo	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bp	97	Total	C	N	O	S	0	0
			790	501	143	145	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	bq	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	br	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bs	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bt	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bu	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bv	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	bw	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bx	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	by	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	bz	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cA	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cB	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cC	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cD	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cE	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cF	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cG	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cH	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cI	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cJ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cK	111	Total	C	N	O	S	0	0
			904	572	163	168	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	cL	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cM	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cN	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cO	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cP	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cQ	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cR	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cS	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cT	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cU	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cV	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cW	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cX	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cY	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cZ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ca	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cb	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cc	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cd	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ce	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cf	97	Total	C	N	O	S	0	0
			790	501	143	145	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	cg	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ch	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ci	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cj	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ck	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cl	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cm	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cn	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	co	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cp	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cq	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cr	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cs	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ct	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cu	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cv	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cw	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cx	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	cy	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	cz	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dA	111	Total	C	N	O	S	0	0
			904	572	163	168	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	dB	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dC	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dD	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dE	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dF	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dG	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dH	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dI	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dJ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dK	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dL	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dM	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dN	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dO	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dP	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dQ	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dR	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dS	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dT	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dU	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dV	97	Total	C	N	O	S	0	0
			790	501	143	145	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	dW	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dX	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dY	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dZ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	da	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	db	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dc	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dd	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	de	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	df	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dg	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dh	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	di	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dj	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dk	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dl	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dm	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dn	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	do	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dp	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dq	111	Total	C	N	O	S	0	0
			904	572	163	168	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	dr	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ds	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dt	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	du	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dv	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dw	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dx	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	dy	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	dz	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eA	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eB	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eC	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eD	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eE	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eF	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eG	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eH	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eI	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eJ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eK	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eL	97	Total	C	N	O	S	0	0
			790	501	143	145	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	eM	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eN	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eO	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eP	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eQ	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eR	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eS	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eT	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eU	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eV	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eW	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eX	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eY	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eZ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ea	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	eb	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ec	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ed	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ee	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ef	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eg	111	Total	C	N	O	S	0	0
			904	572	163	168	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	eh	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ei	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ej	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ek	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	el	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	em	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	en	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eo	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ep	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eq	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	er	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	es	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	et	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	eu	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ev	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ew	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ex	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	ey	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ez	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fA	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fB	97	Total	C	N	O	S	0	0
			790	501	143	145	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	fC	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fD	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fE	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fF	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fG	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fH	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fI	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fJ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fK	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fL	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fM	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fN	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fO	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fP	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fQ	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fR	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fS	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fT	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fU	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fV	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fW	111	Total	C	N	O	S	0	0
			904	572	163	168	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	fX	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fY	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fZ	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fa	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fb	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fc	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fd	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fe	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ff	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fg	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fh	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fi	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fj	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fk	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fl	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fm	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fn	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fo	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fp	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fq	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fr	97	Total	C	N	O	S	0	0
			790	501	143	145	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	fs	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	ft	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fu	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fv	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fw	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fx	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	fy	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	fz	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	gA	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	gB	97	Total	C	N	O	S	0	0
			790	501	143	145	1		
5	gC	111	Total	C	N	O	S	0	0
			904	572	163	168	1		
5	gD	97	Total	C	N	O	S	0	0
			790	501	143	145	1		

- Molecule 6 is a protein called Putative phage portal protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	Xx	333	Total	C	N	O	S	0	0
			2747	1777	440	522	8		
6	Xy	362	Total	C	N	O	S	0	0
			2959	1901	478	572	8		
6	Xz	345	Total	C	N	O	S	0	0
			2829	1826	453	542	8		
6	YA	335	Total	C	N	O	S	0	0
			2765	1788	443	526	8		
6	YB	352	Total	C	N	O	S	0	0
			2888	1860	466	554	8		
6	YC	334	Total	C	N	O	S	0	0
			2756	1782	442	524	8		
6	YD	338	Total	C	N	O	S	0	0
			2789	1800	450	531	8		

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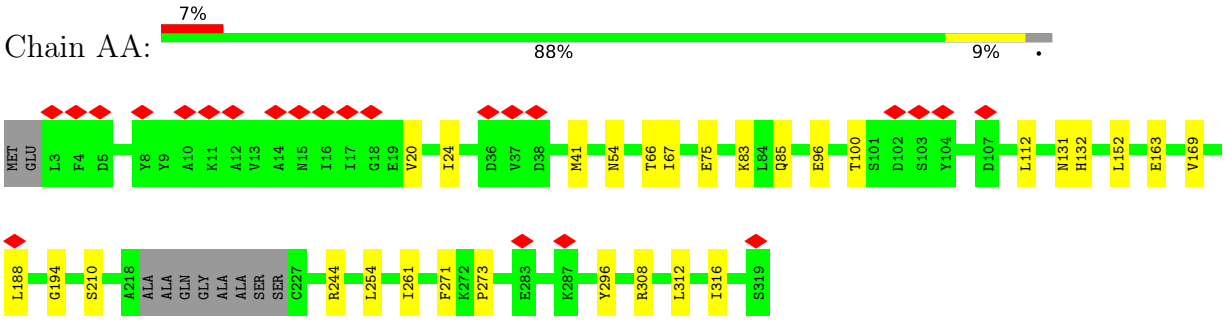
Mol	Chain	Residues	Atoms					AltConf	Trace
6	YE	343	Total	C	N	O	S	0	0
			2830	1825	457	540	8		
6	YF	334	Total	C	N	O	S	0	0
			2754	1780	441	525	8		
6	YG	352	Total	C	N	O	S	0	0
			2888	1860	466	554	8		
6	YH	353	Total	C	N	O	S	0	0
			2894	1863	467	556	8		
6	YI	367	Total	C	N	O	S	0	0
			3000	1924	488	580	8		

3 Residue-property plots (i)

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.

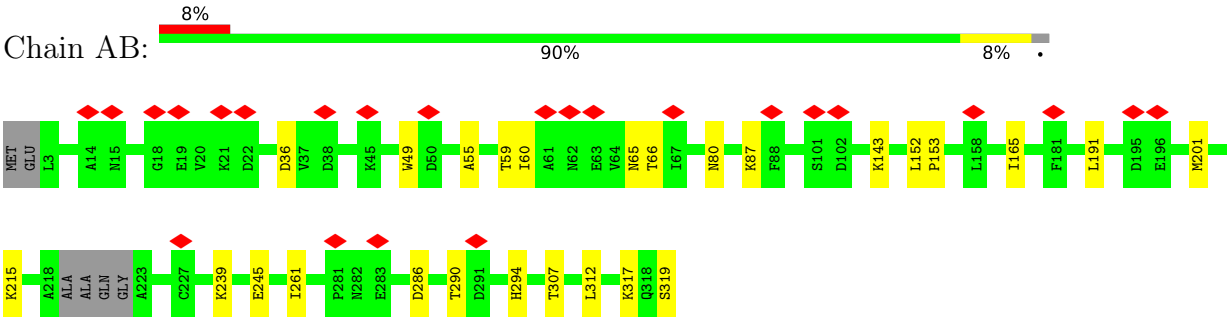
• Molecule 1: Cytosolic protein

Chain AA:



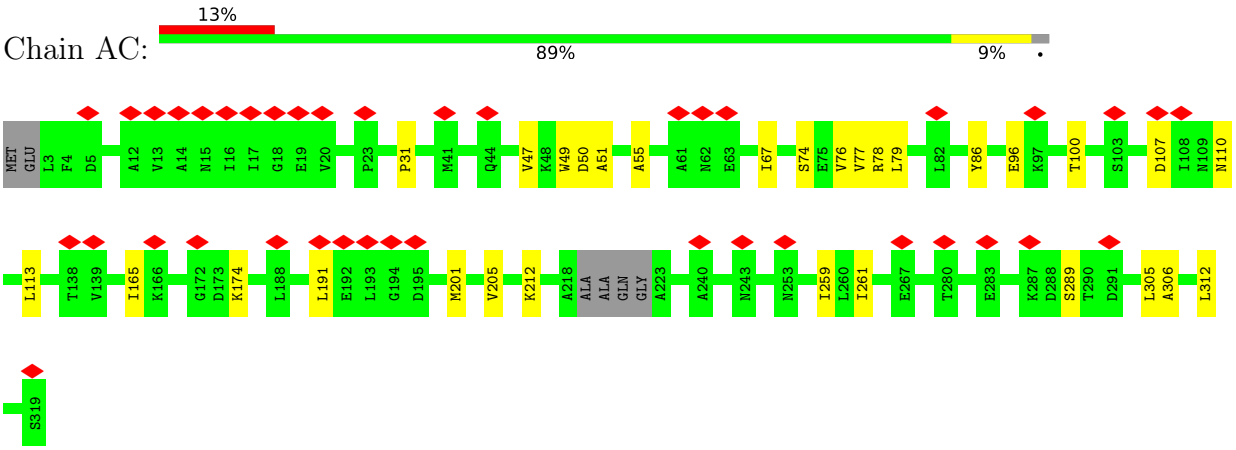
• Molecule 1: Cytosolic protein

Chain AB:



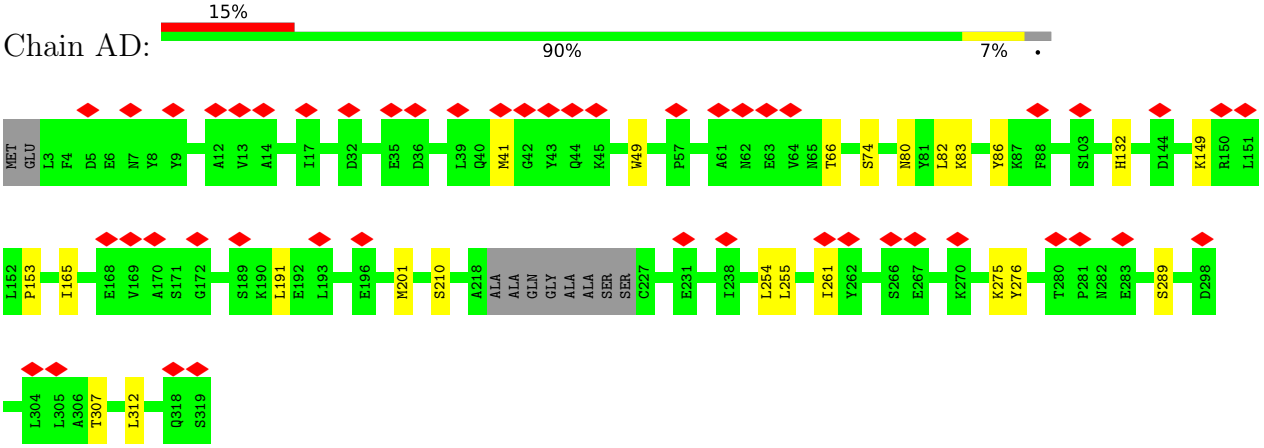
• Molecule 1: Cytosolic protein

Chain AC:



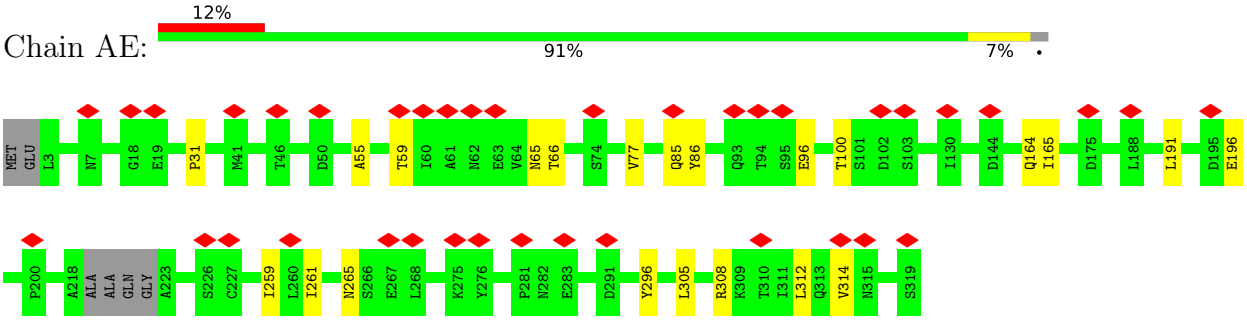
• Molecule 1: Cytosolic protein

Chain AD:



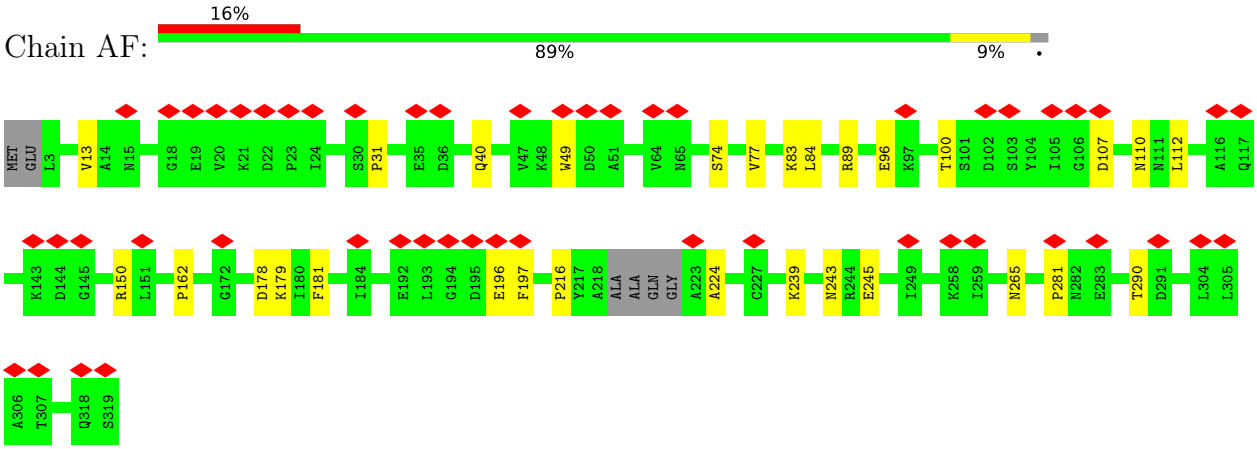
• Molecule 1: Cytosolic protein

Chain AE:



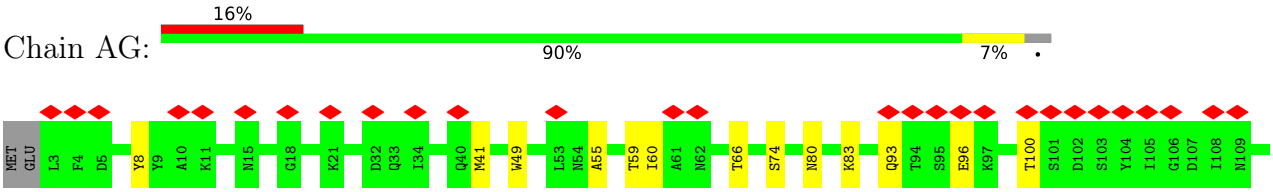
• Molecule 1: Cytosolic protein

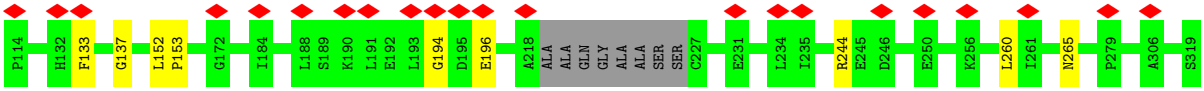
Chain AF:



• Molecule 1: Cytosolic protein

Chain AG:

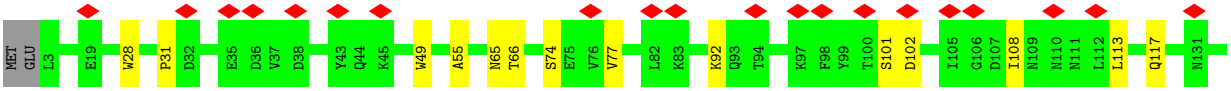


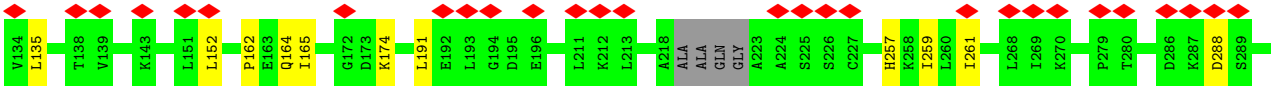


• Molecule 1: Cytosolic protein

Chain AH:



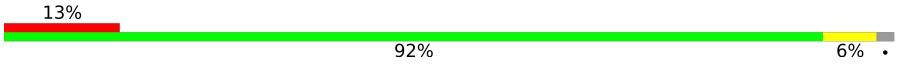


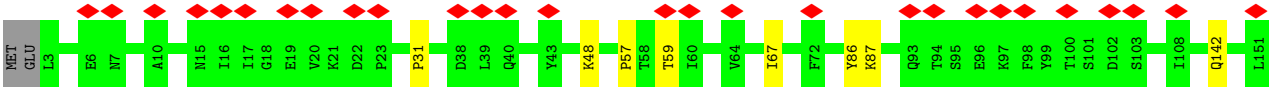


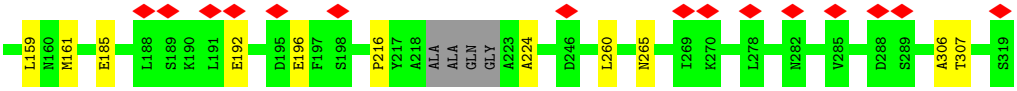


• Molecule 1: Cytosolic protein

Chain AI:



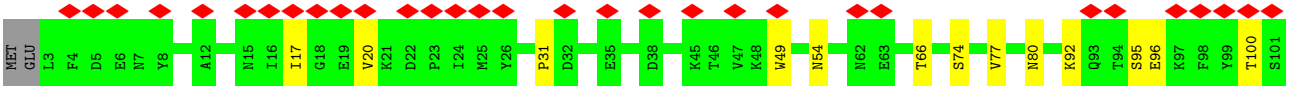


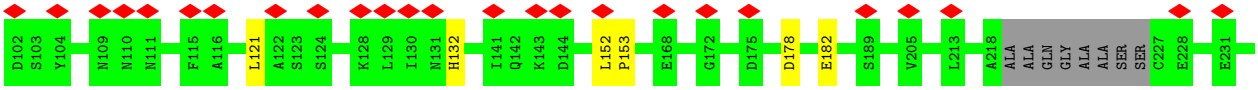


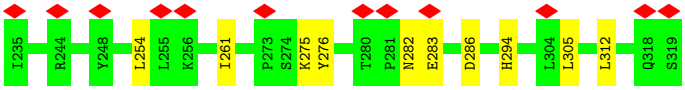
• Molecule 1: Cytosolic protein

Chain AJ:





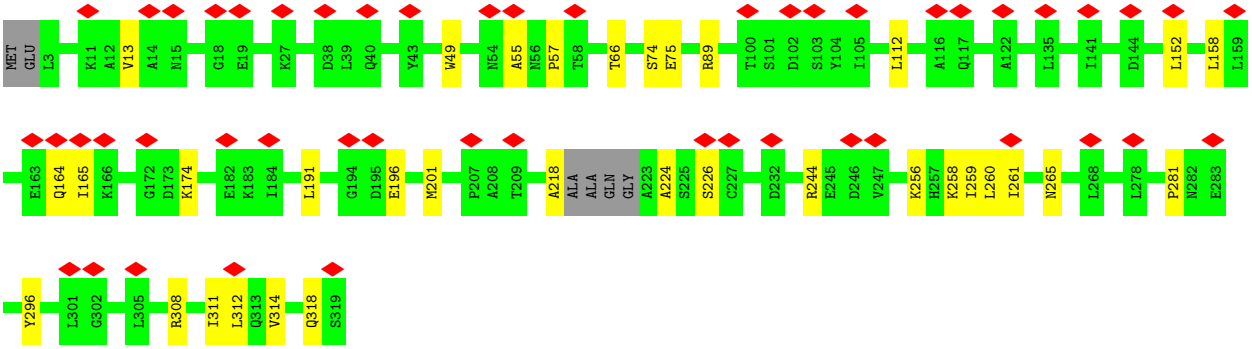




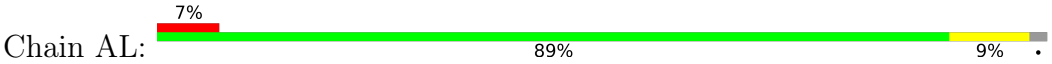
• Molecule 1: Cytosolic protein

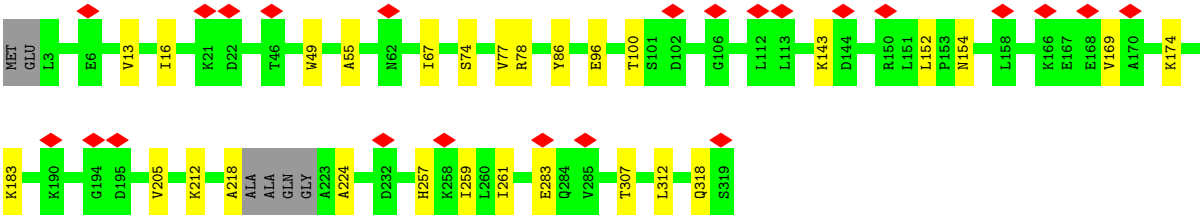
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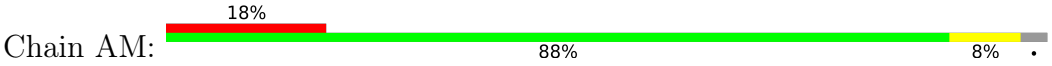


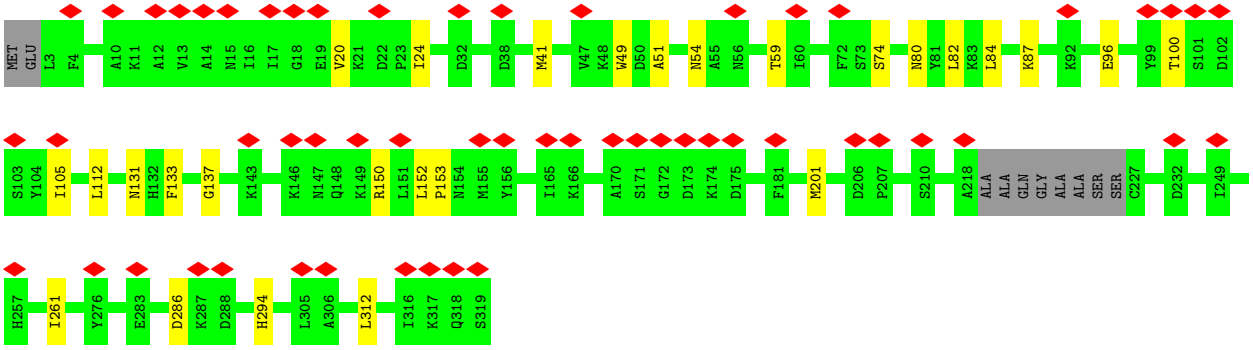
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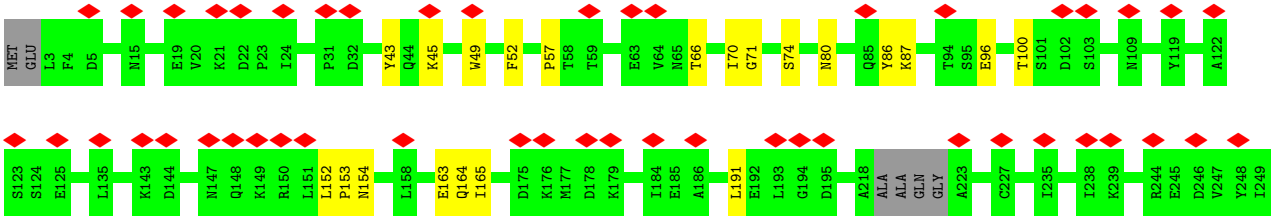
• Molecule 1: Cytosolic protein

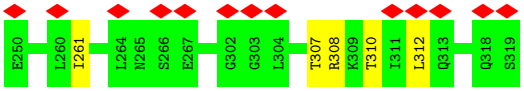




• Molecule 1: Cytosolic protein



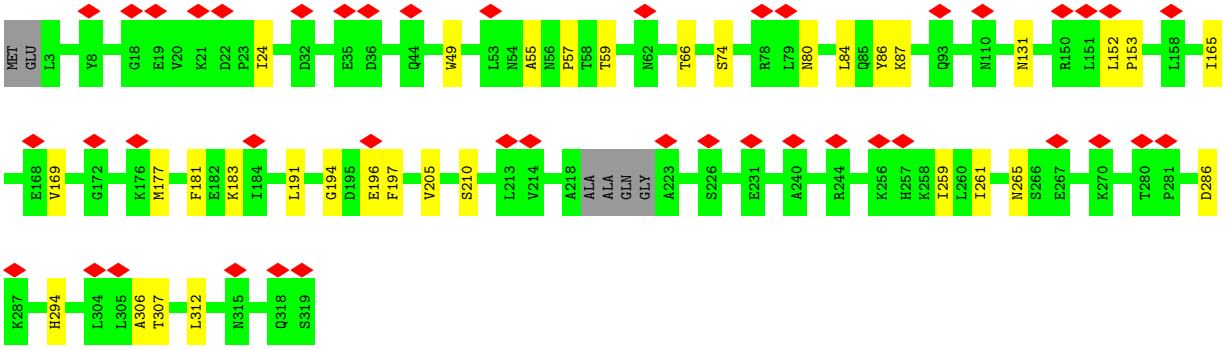




• Molecule 1: Cytosolic protein

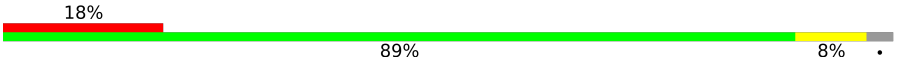
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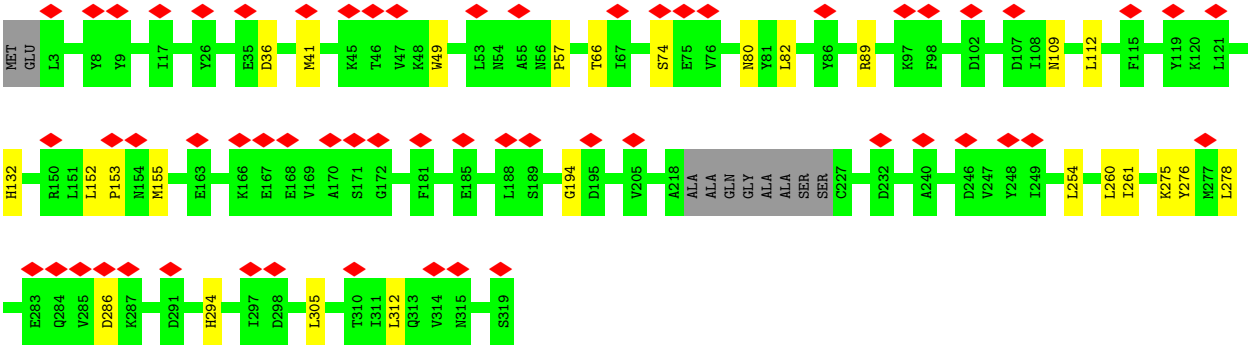




• Molecule 1: Cytosolic protein

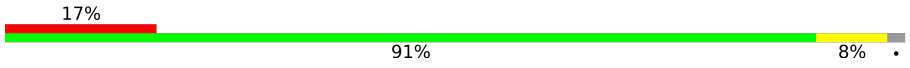
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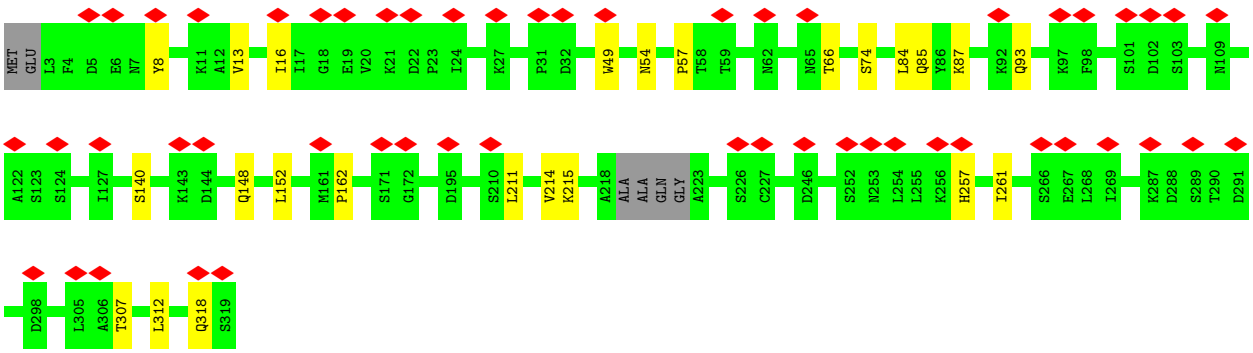




• Molecule 1: Cytosolic protein

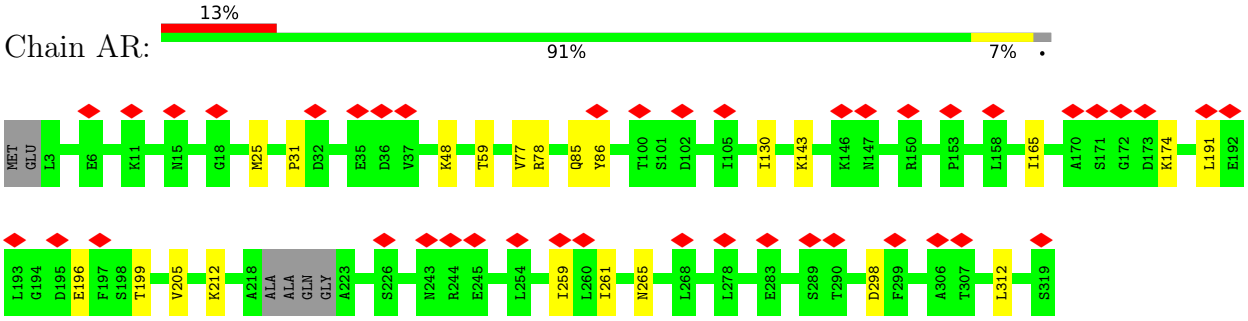
Chain AQ:





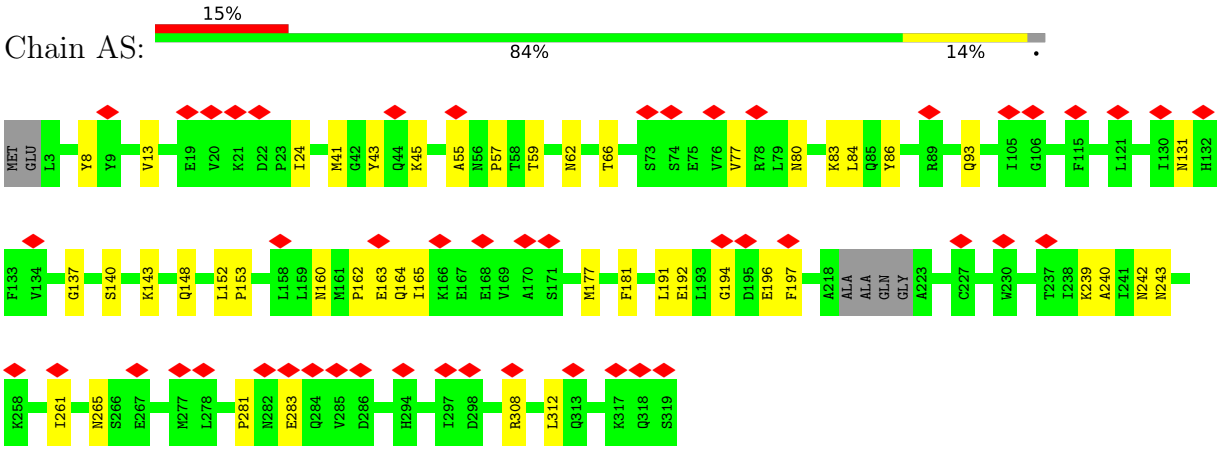
• Molecule 1: Cytosolic protein

Chain AR:



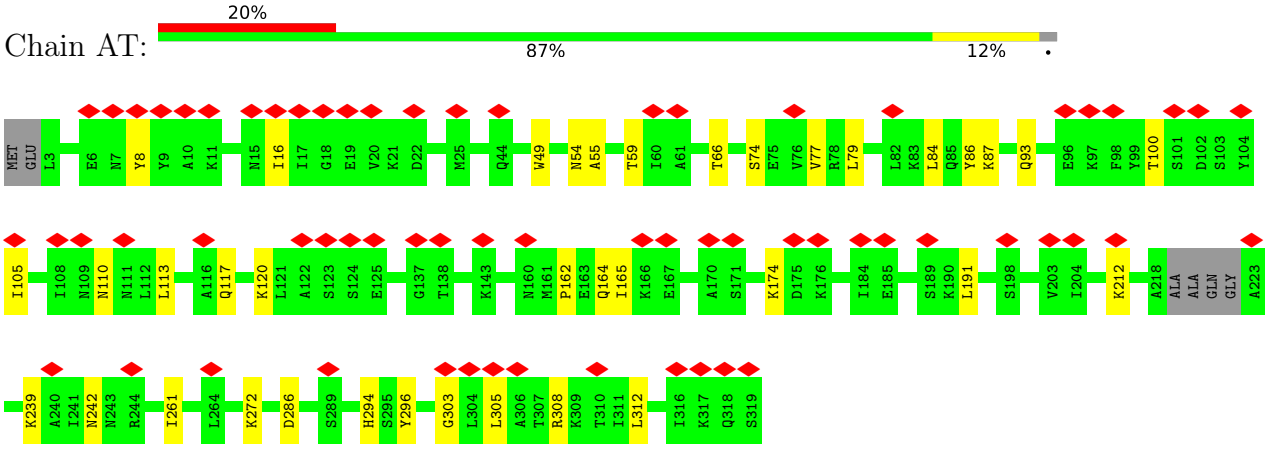
• Molecule 1: Cytosolic protein

Chain AS:



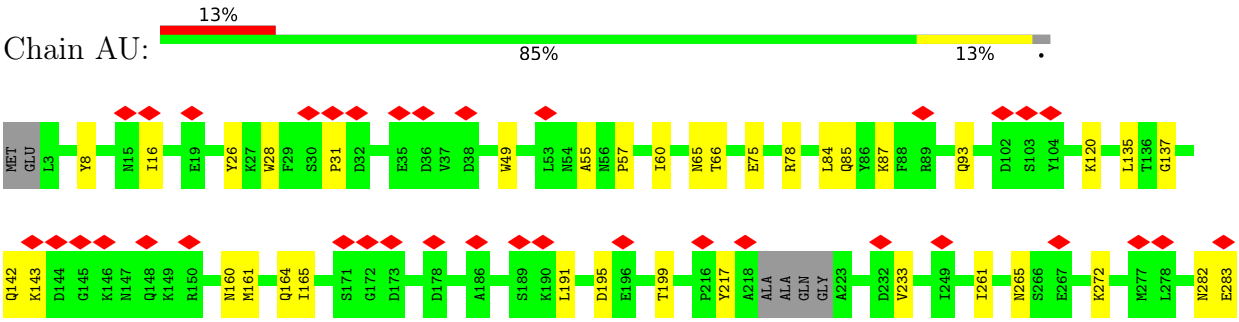
• Molecule 1: Cytosolic protein

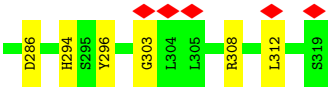
Chain AT:



• Molecule 1: Cytosolic protein

Chain AU:

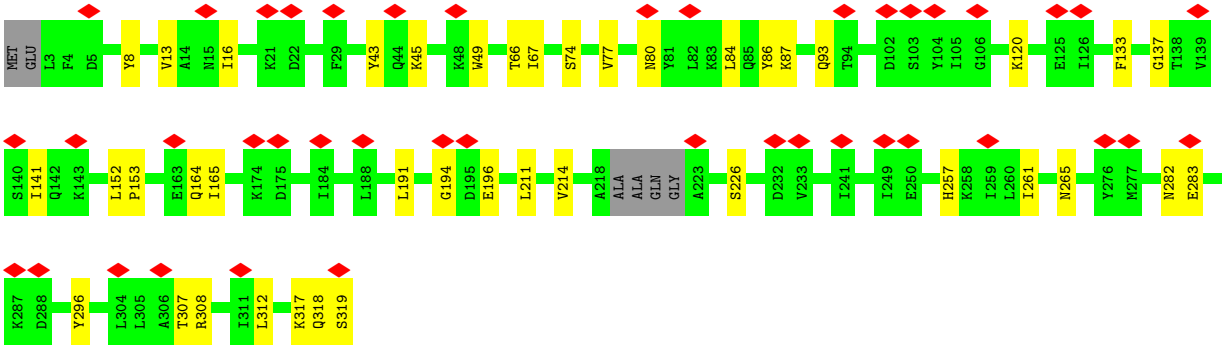




• Molecule 1: Cytosolic protein

Chain AV:

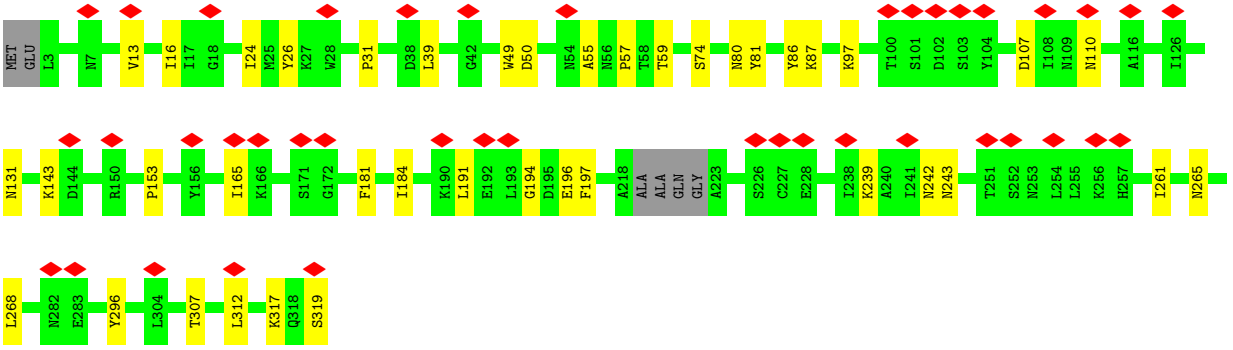




• Molecule 1: Cytosolic protein

Chain AW:

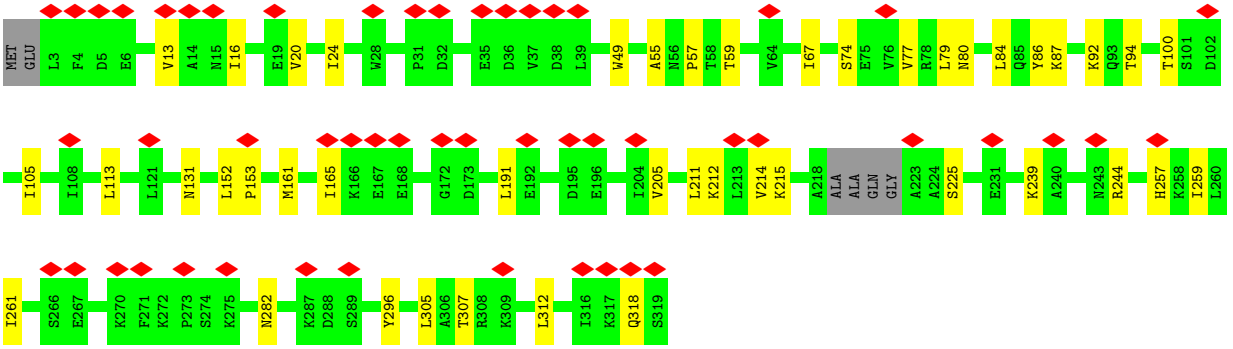




• Molecule 1: Cytosolic protein

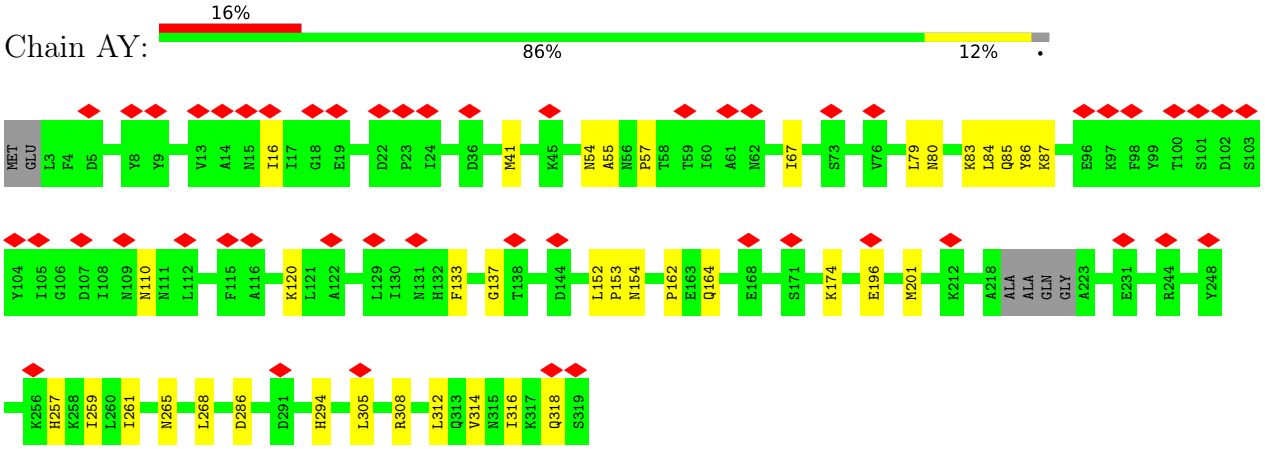
Chain AX:





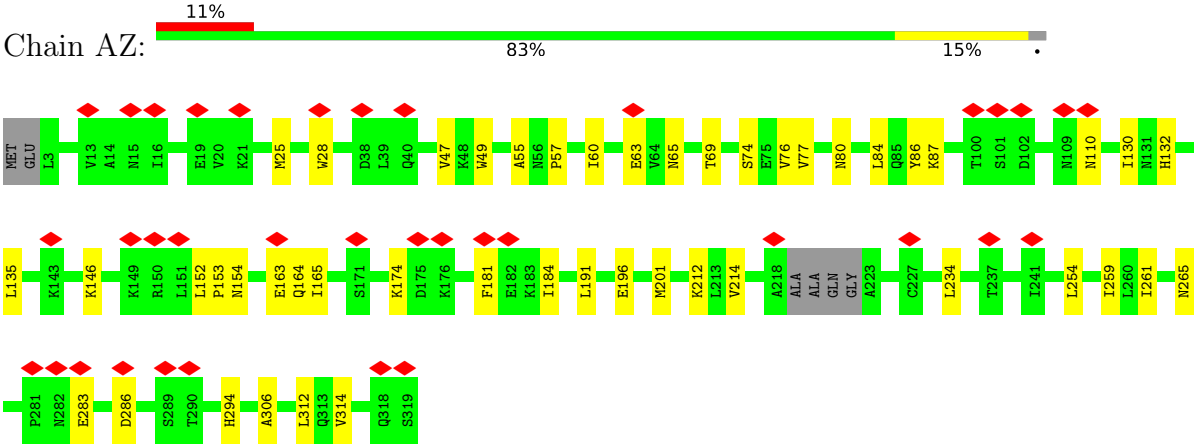
• Molecule 1: Cytosolic protein

Chain AY:



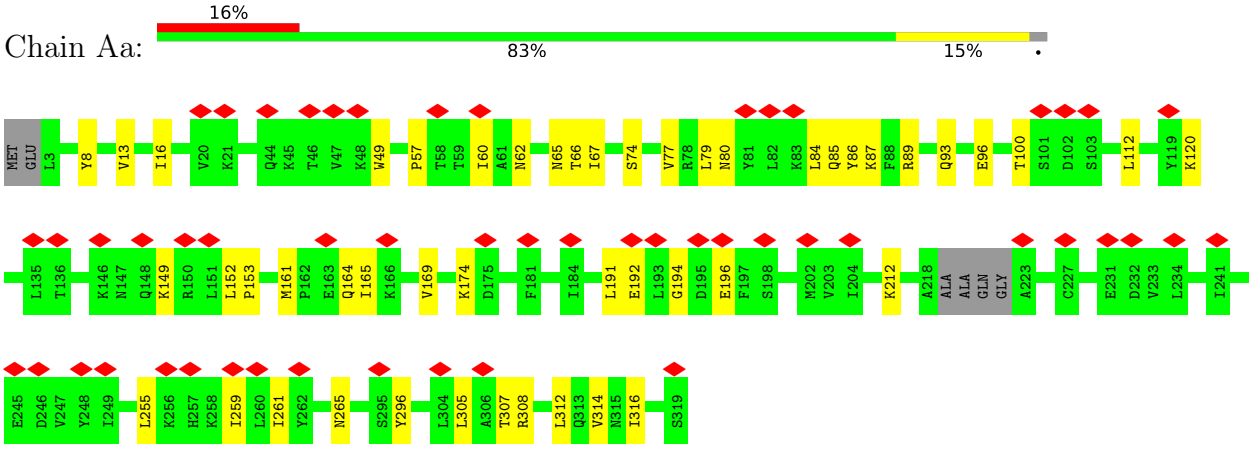
• Molecule 1: Cytosolic protein

Chain AZ:



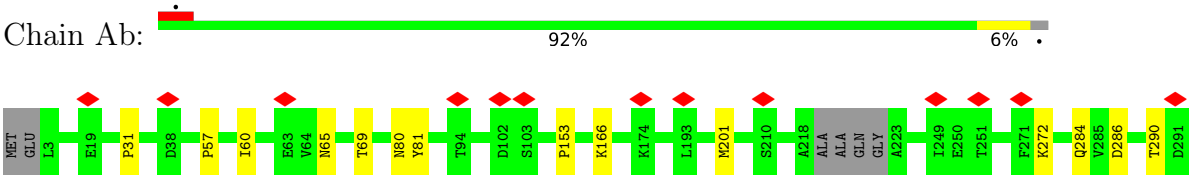
• Molecule 1: Cytosolic protein

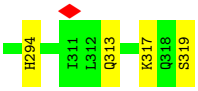
Chain Aa:



• Molecule 1: Cytosolic protein

Chain Ab:

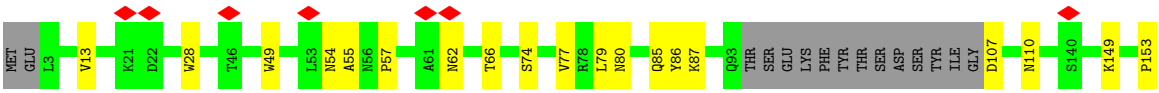


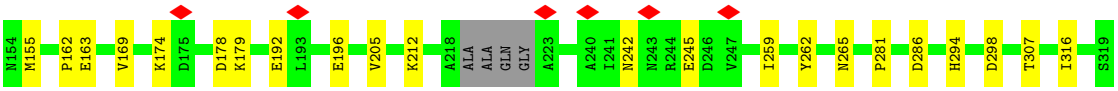


• Molecule 1: Cytosolic protein

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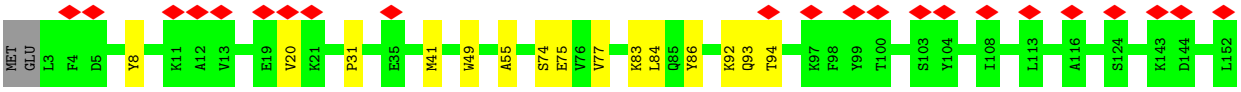


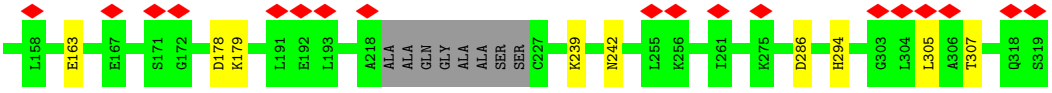


• Molecule 1: Cytosolic protein

Chain Ad:

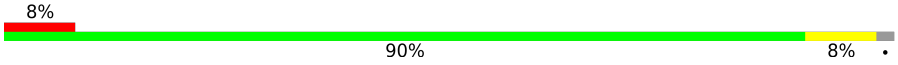


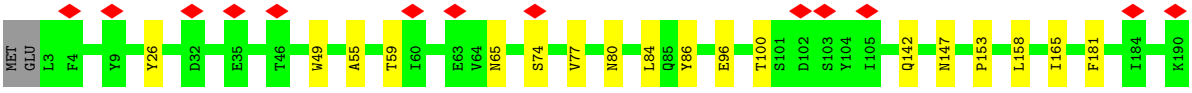


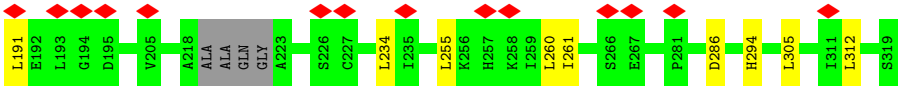


• Molecule 1: Cytosolic protein

Chain Ae:



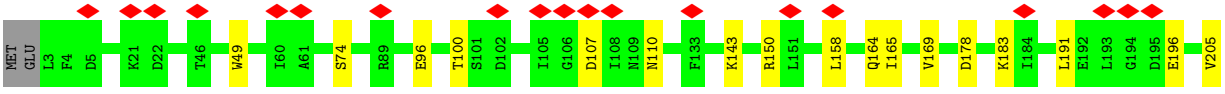


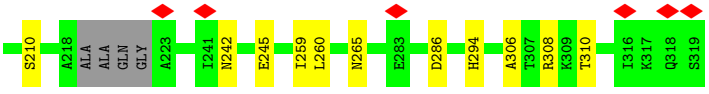


• Molecule 1: Cytosolic protein

Chain Af:

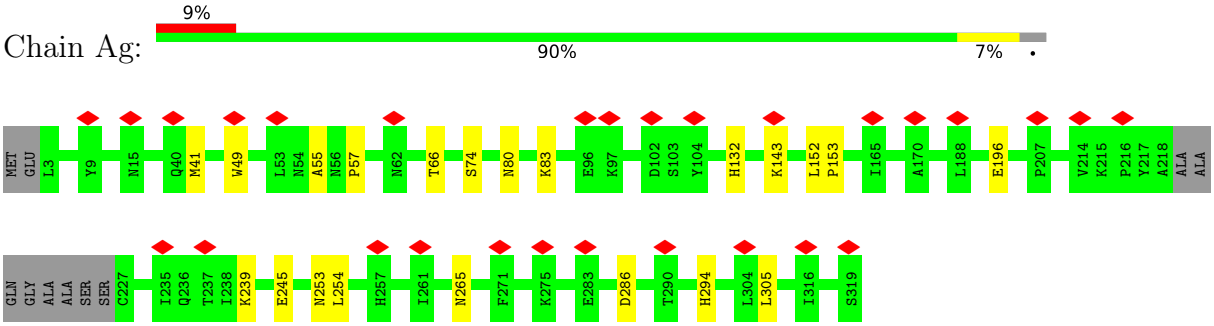






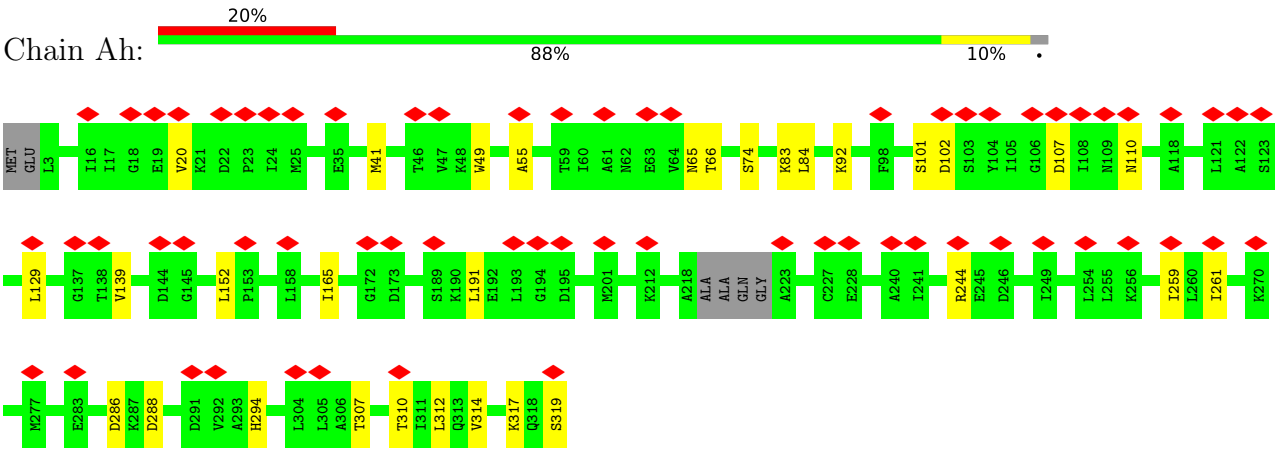
• Molecule 1: Cytosolic protein

Chain Ag:



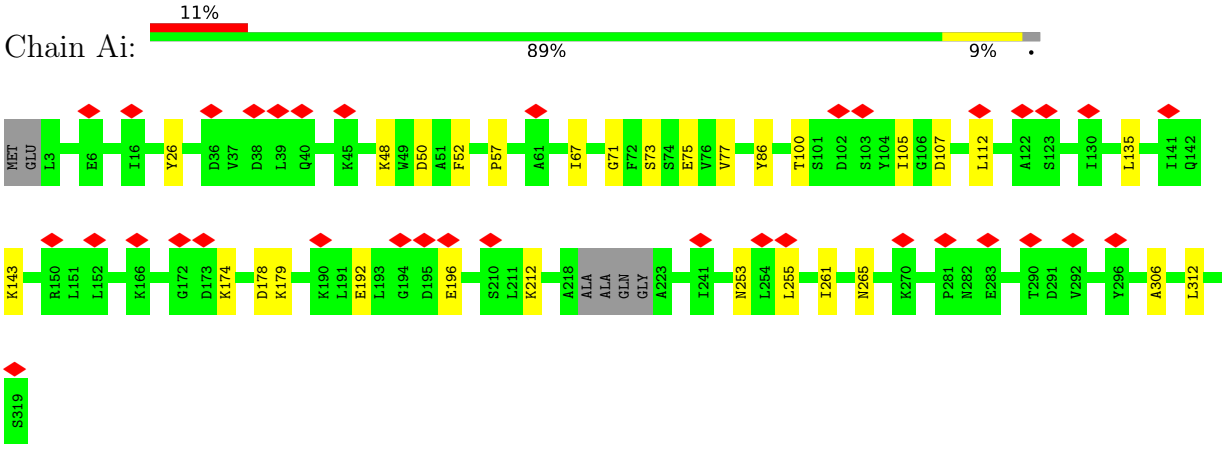
• Molecule 1: Cytosolic protein

Chain Ah:



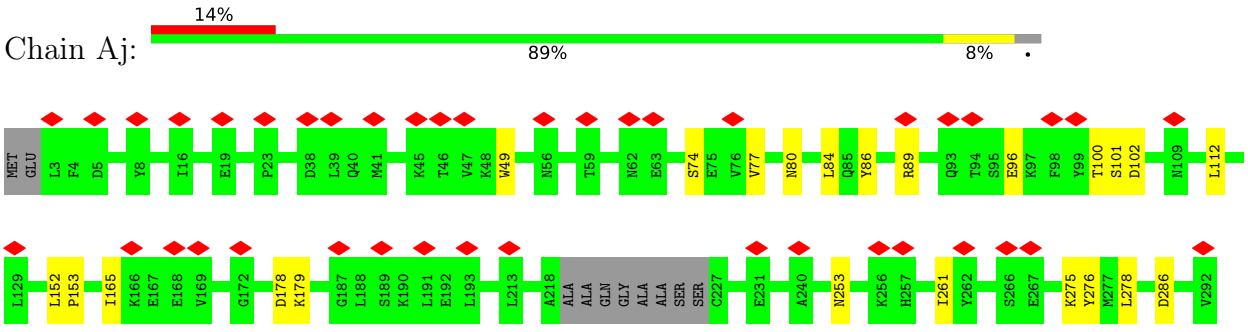
• Molecule 1: Cytosolic protein

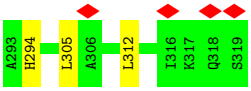
Chain Ai:



• Molecule 1: Cytosolic protein

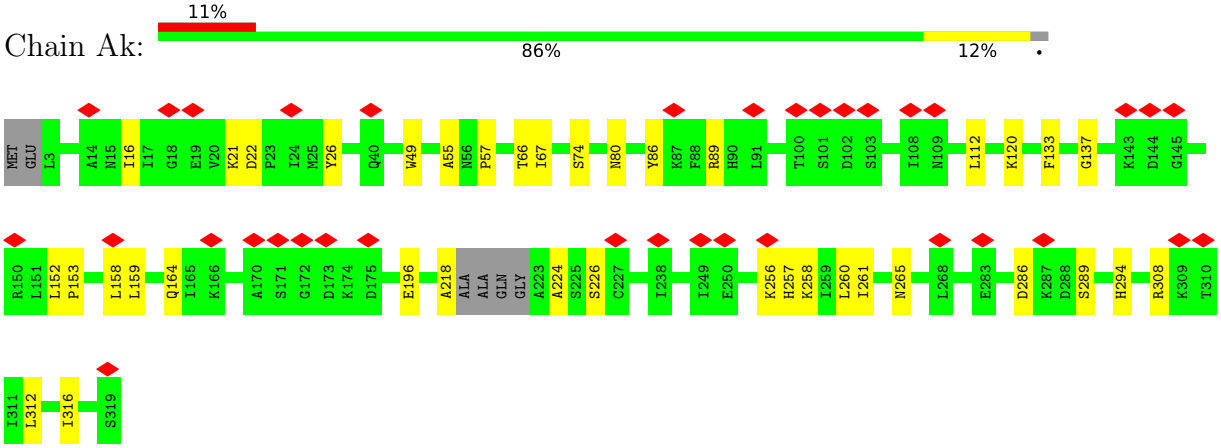
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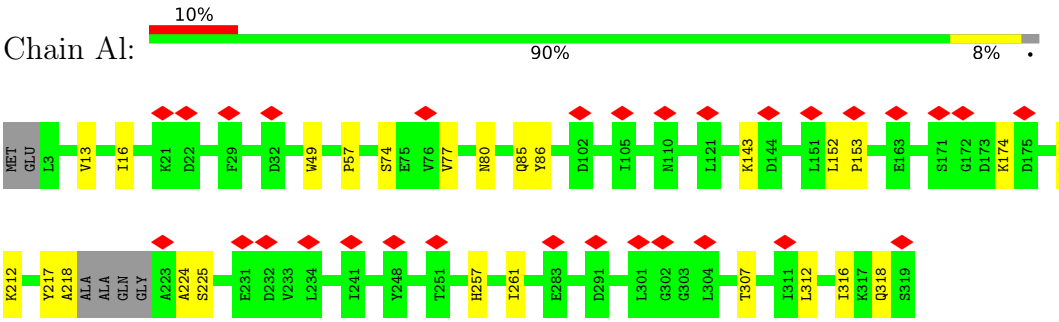
• Molecule 1: Cytosolic protein

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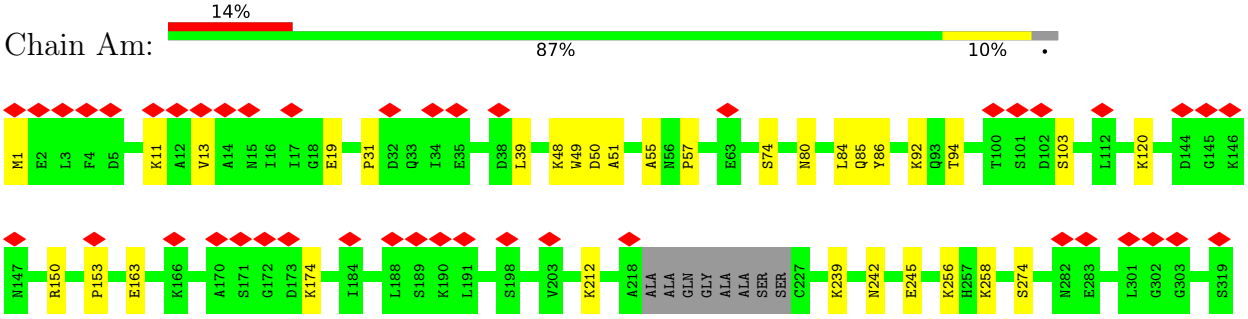
• Molecule 1: Cytosolic protein

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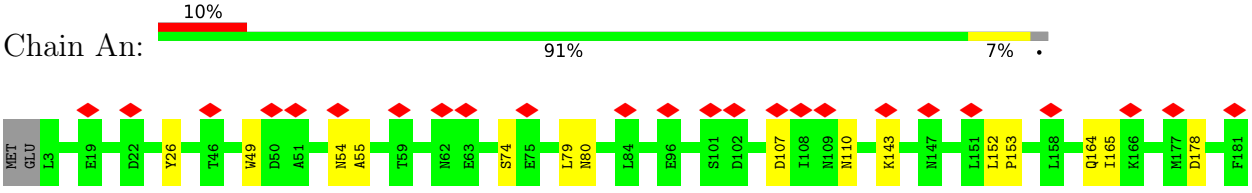
• Molecule 1: Cytosolic protein

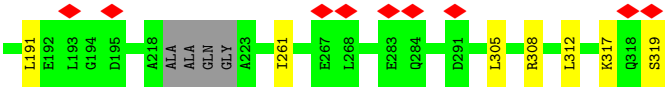
Chain Am:



• Molecule 1: Cytosolic protein

Chain An:

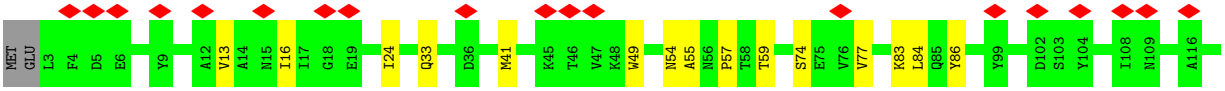


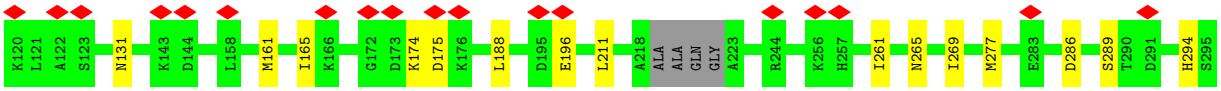


• Molecule 1: Cytosolic protein

Chain Ao:





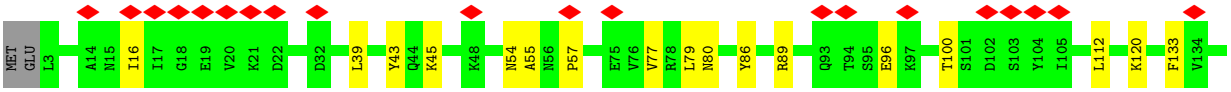


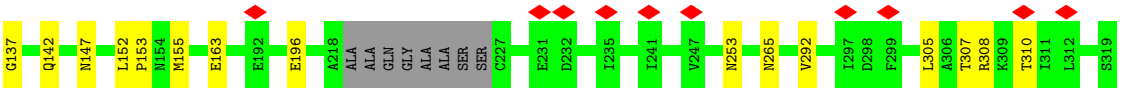


• Molecule 1: Cytosolic protein

Chain Ap:

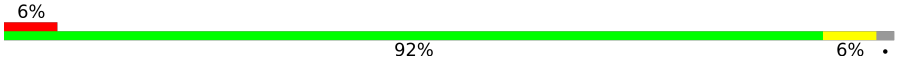


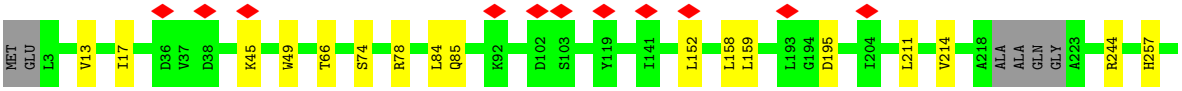


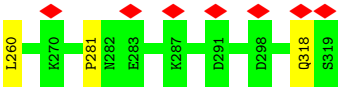


• Molecule 1: Cytosolic protein

Chain Aq:



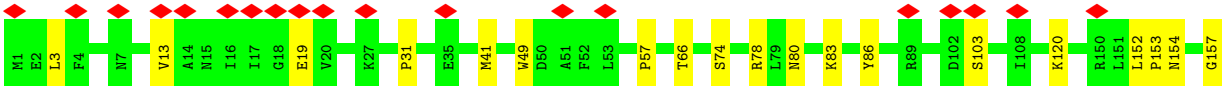


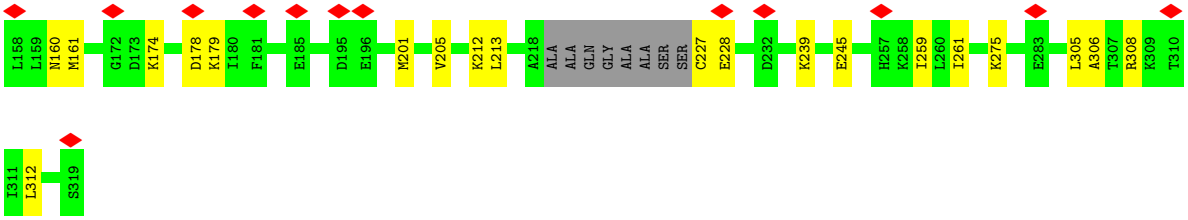


• Molecule 1: Cytosolic protein

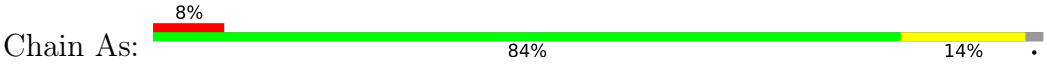
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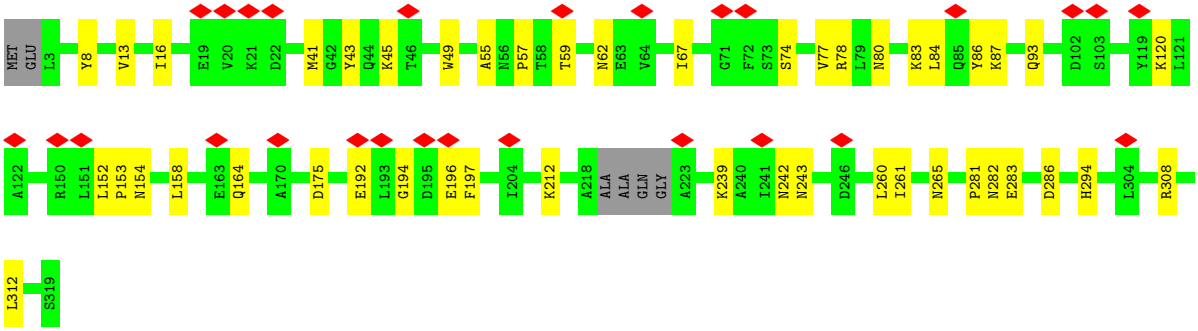




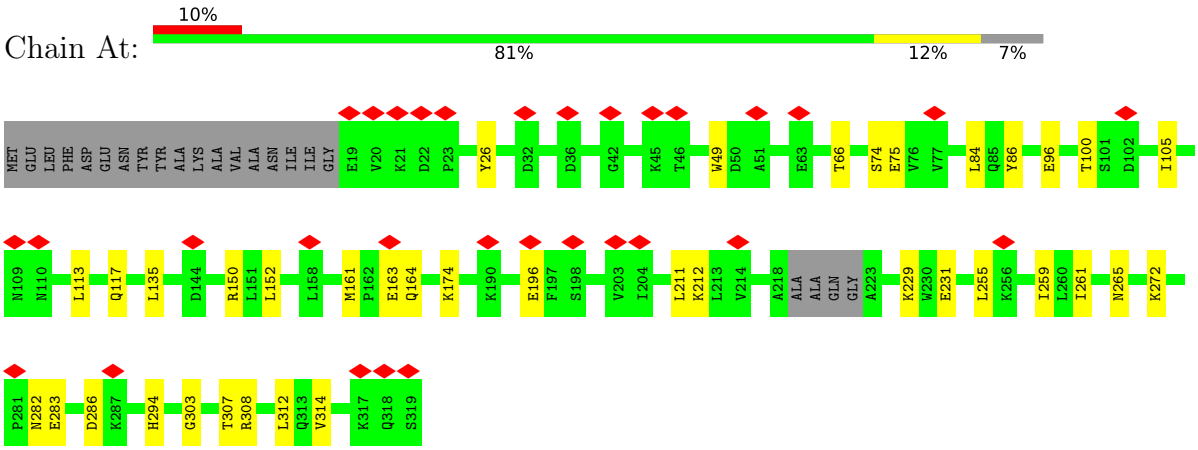


• Molecule 1: Cytosolic protein

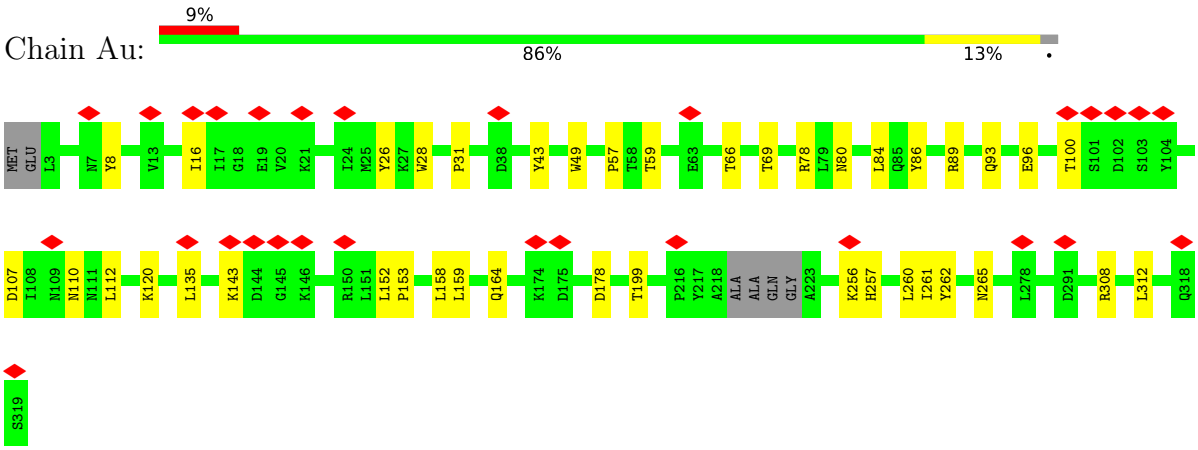




• Molecule 1: Cytosolic protein

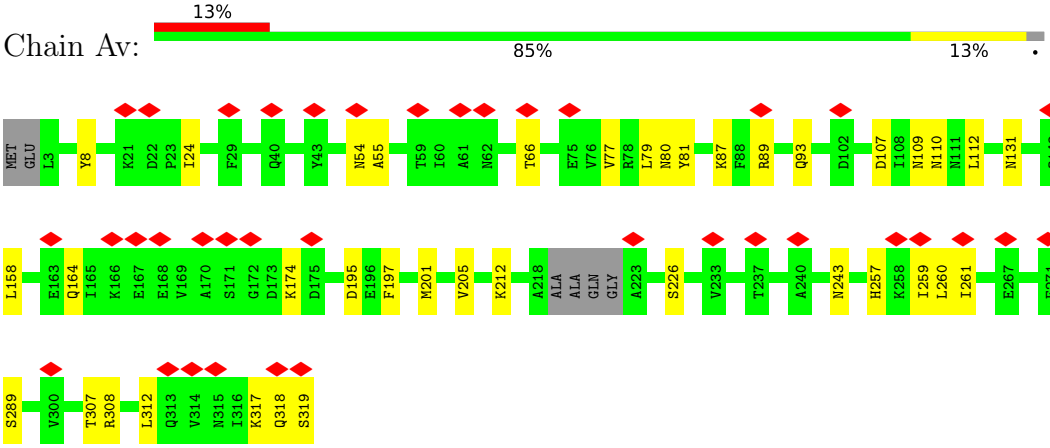


• Molecule 1: Cytosolic protein



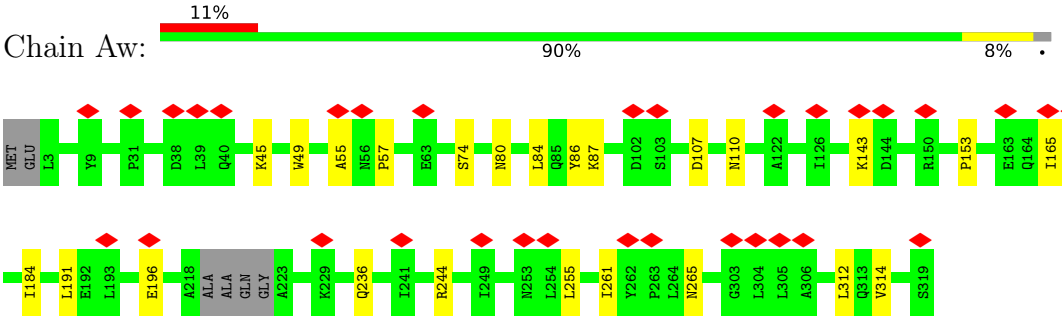
• Molecule 1: Cytosolic protein

Chain Av:



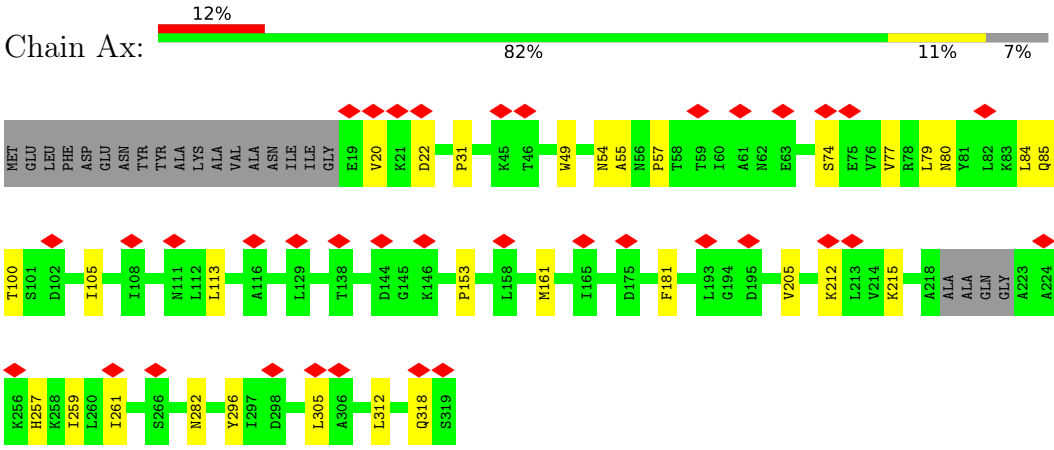
• Molecule 1: Cytosolic protein

Chain Aw:



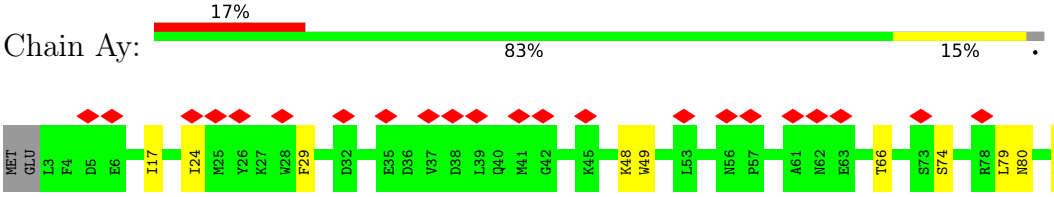
• Molecule 1: Cytosolic protein

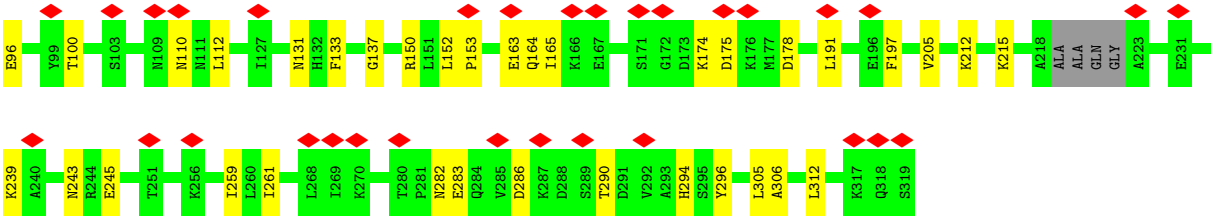
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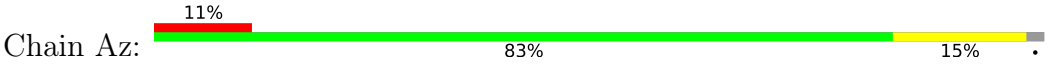
• Molecule 1: Cytosolic protein

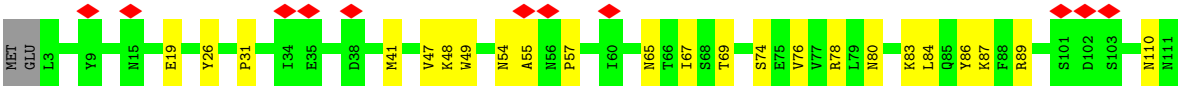
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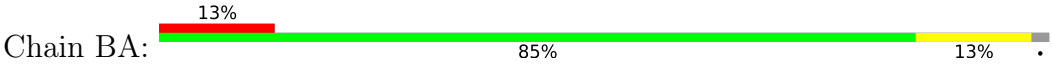


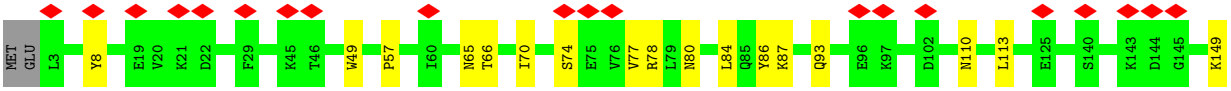
• Molecule 1: Cytosolic protein



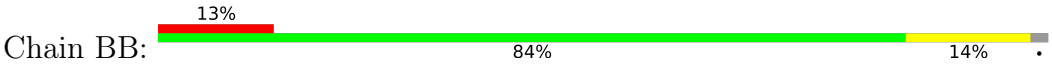


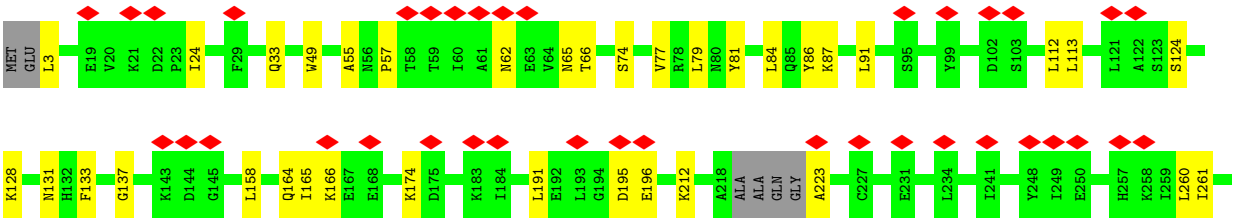
• Molecule 1: Cytosolic protein

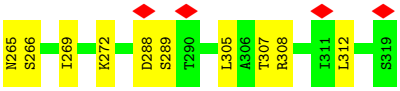




• Molecule 1: Cytosolic protein

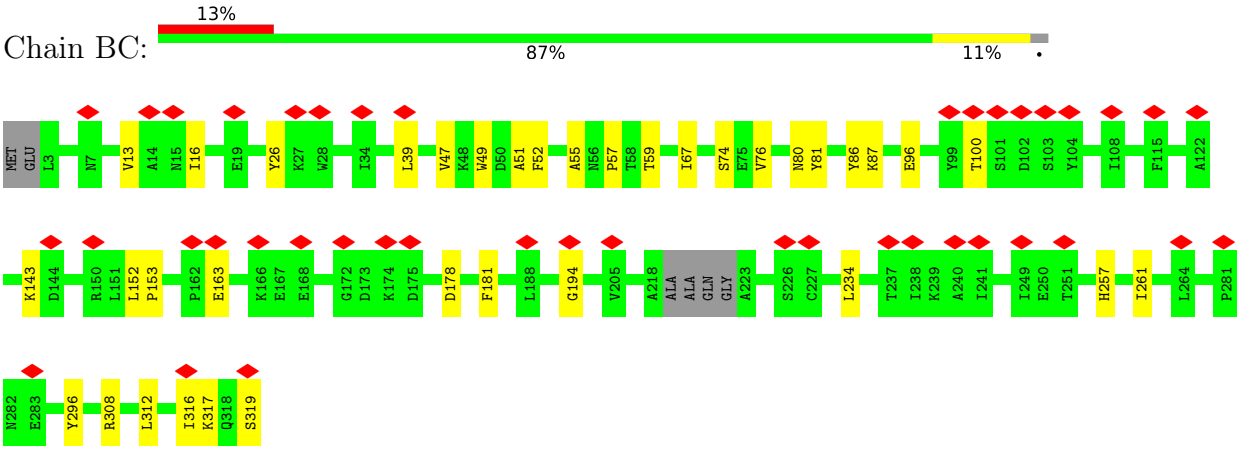






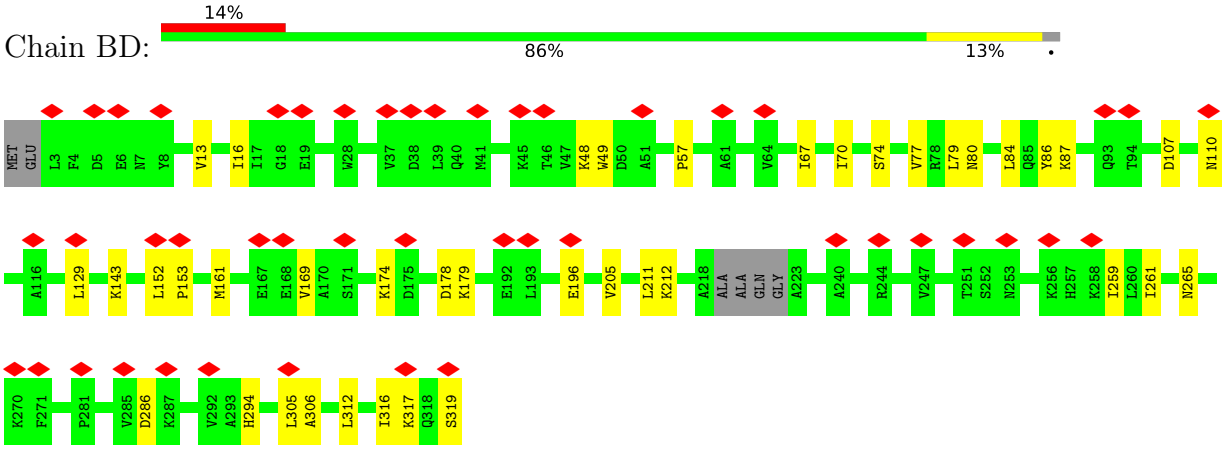
• Molecule 1: Cytosolic protein

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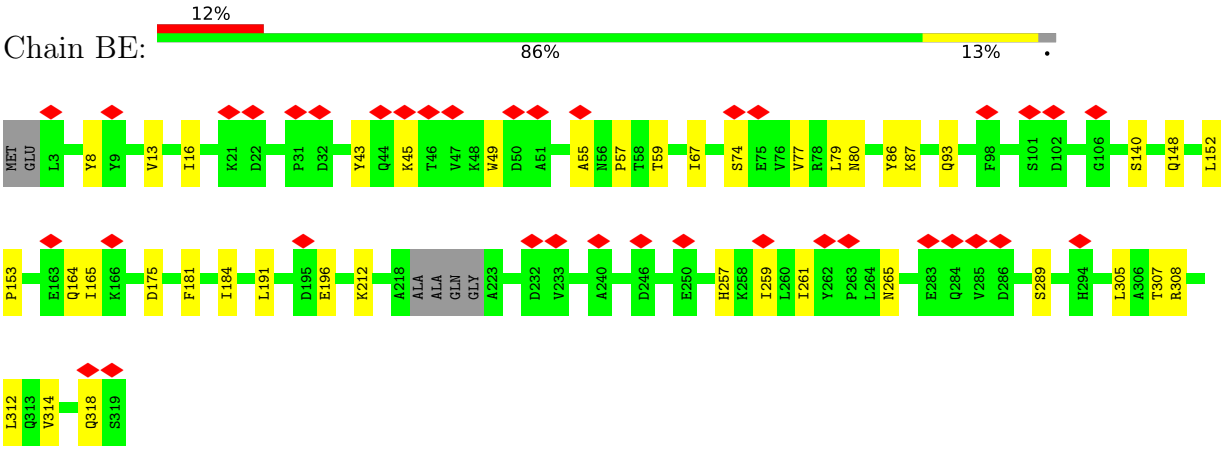
• Molecule 1: Cytosolic protein

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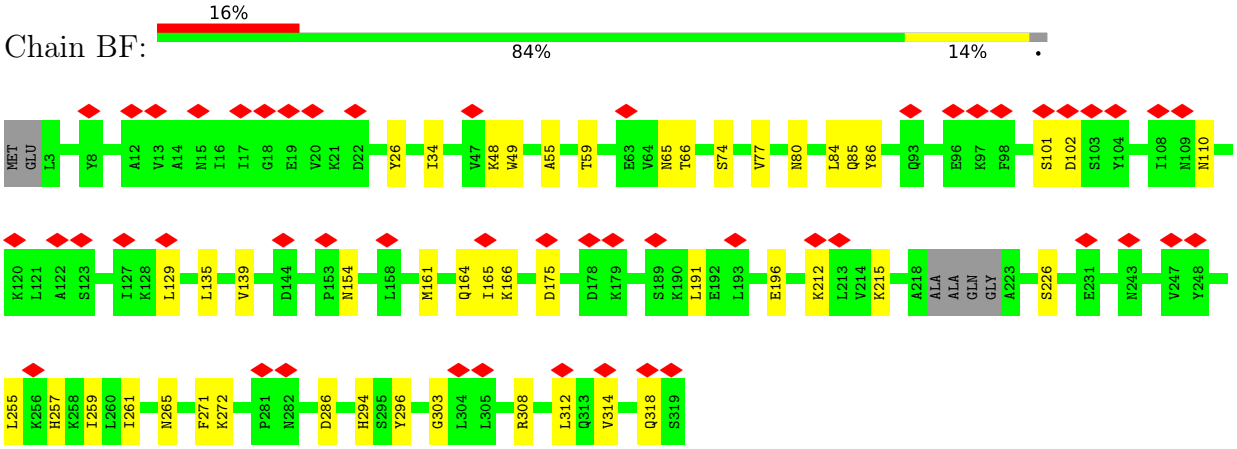
• Molecule 1: Cytosolic protein

Chain BE:



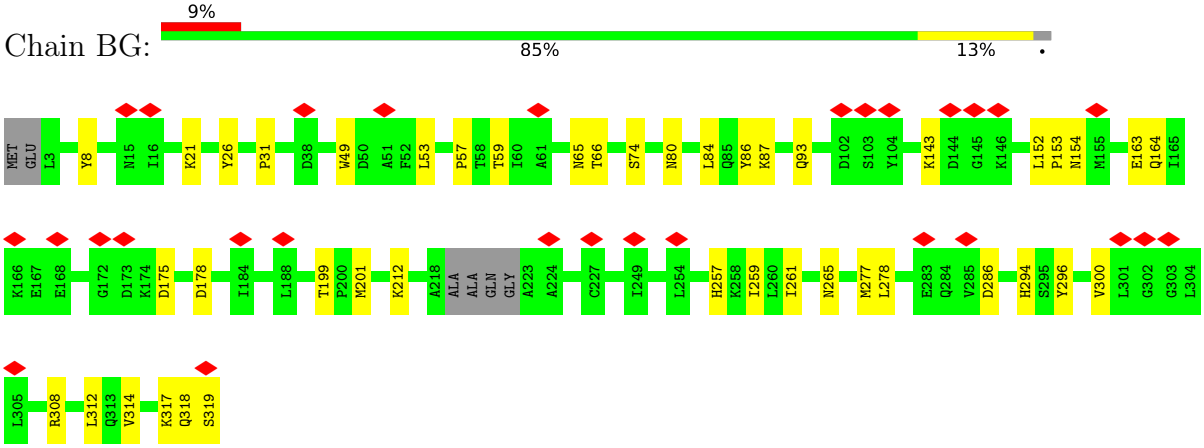
• Molecule 1: Cytosolic protein

Chain BF:



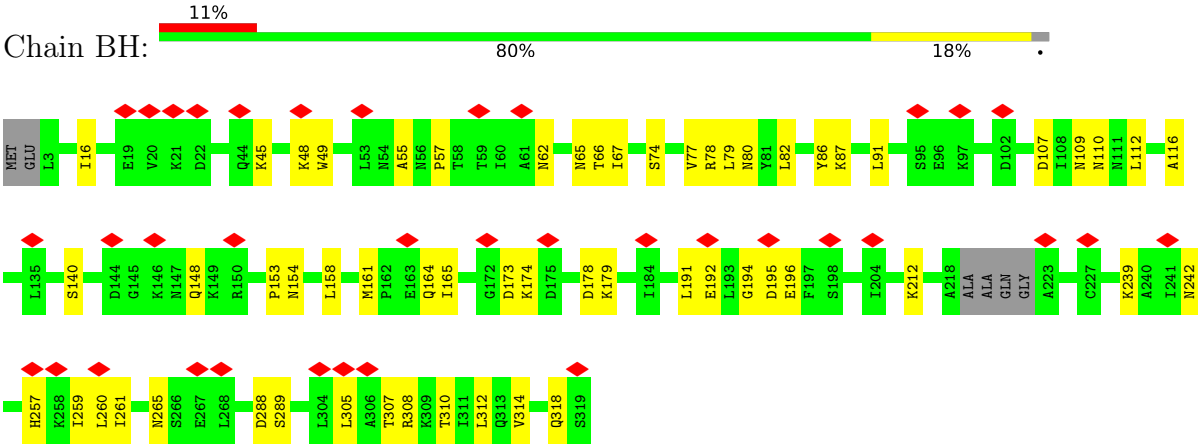
• Molecule 1: Cytosolic protein

Chain BG:



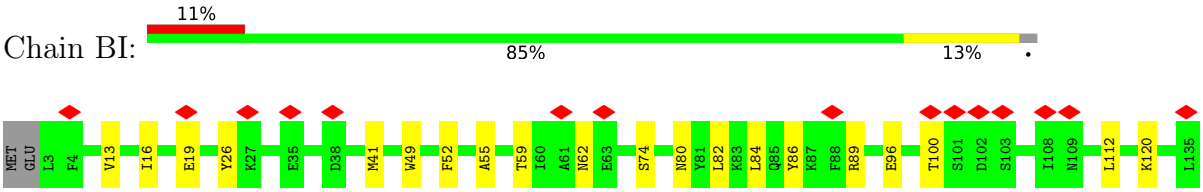
• Molecule 1: Cytosolic protein

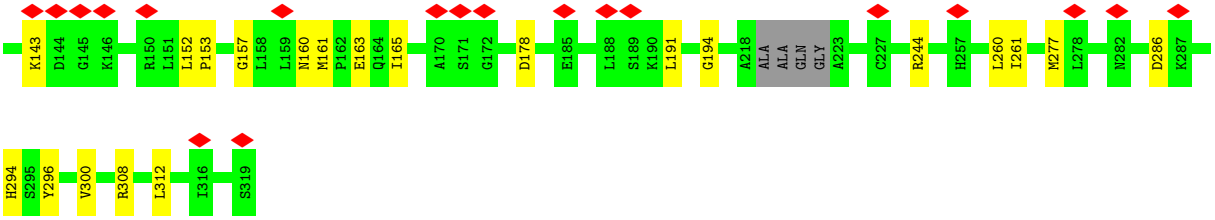
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• Molecule 1: Cytosolic protein

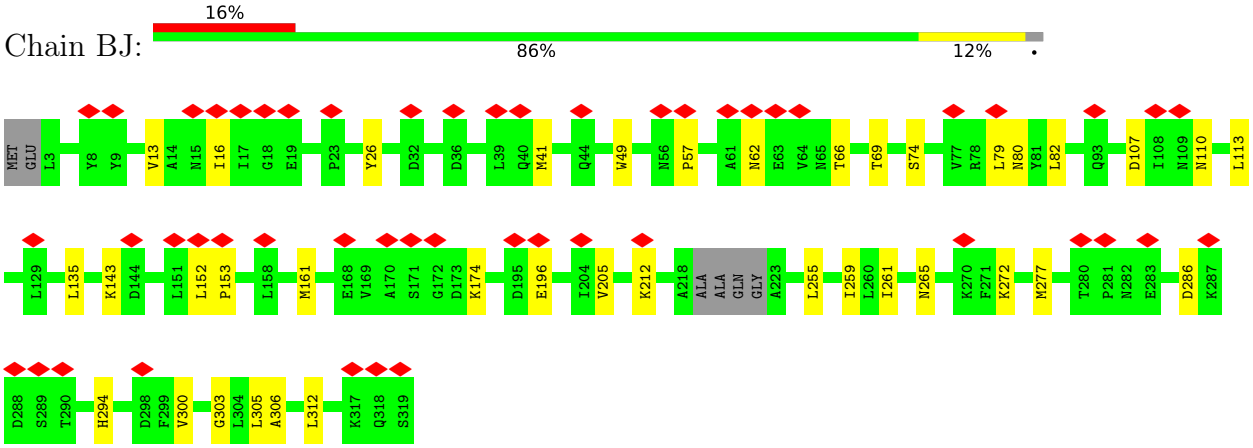
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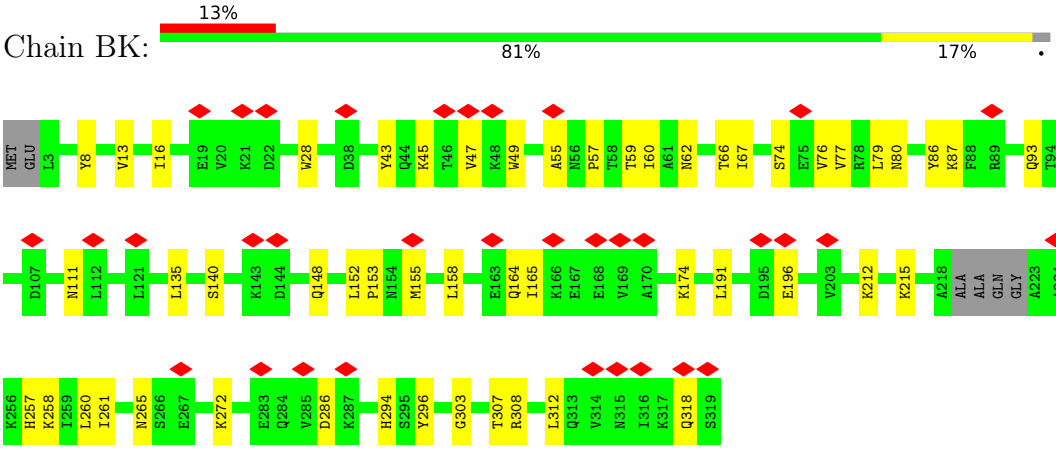
• Molecule 1: Cytosolic protein

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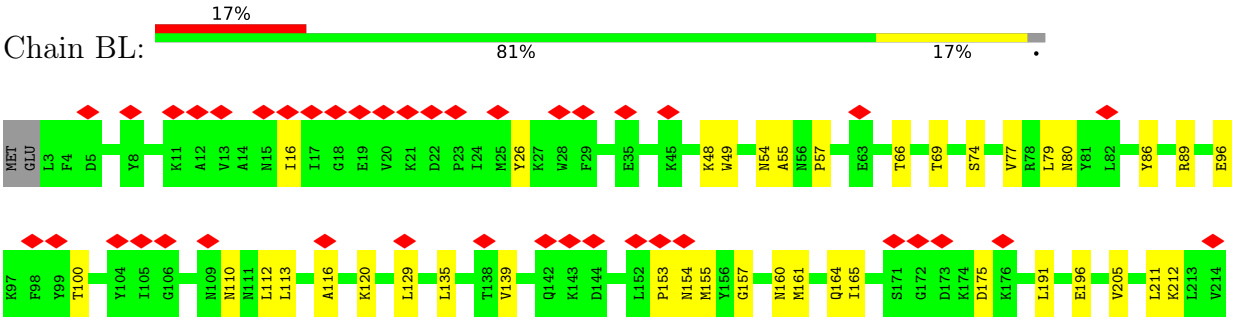
• Molecule 1: Cytosolic protein

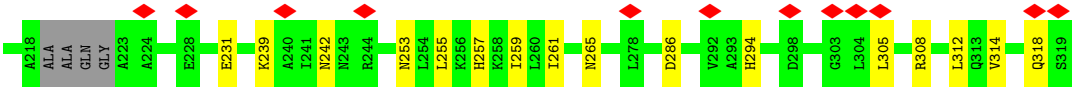
Chain BK:



• Molecule 1: Cytosolic protein

Chain BL:

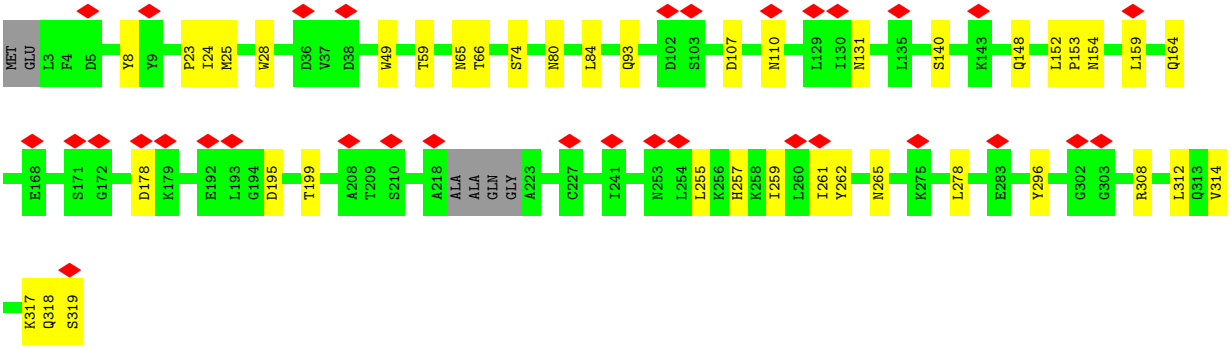




• Molecule 1: Cytosolic protein

Chain BM:

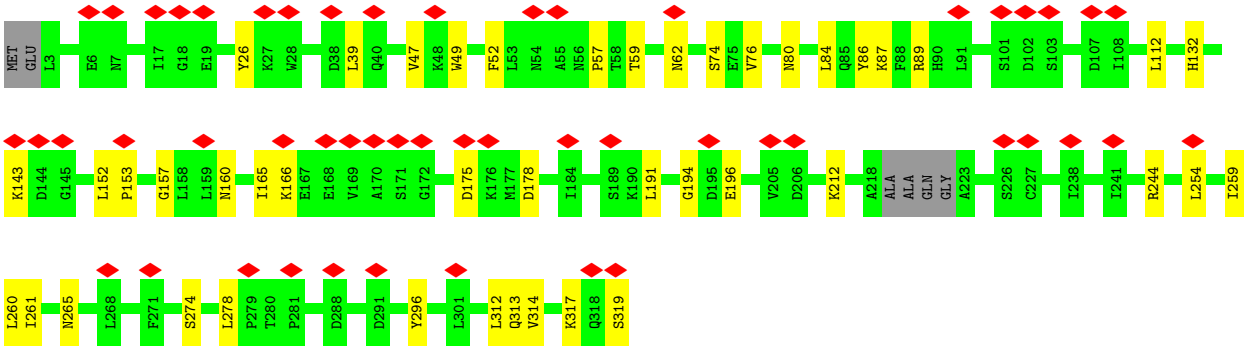




• Molecule 1: Cytosolic protein

Chain BN:

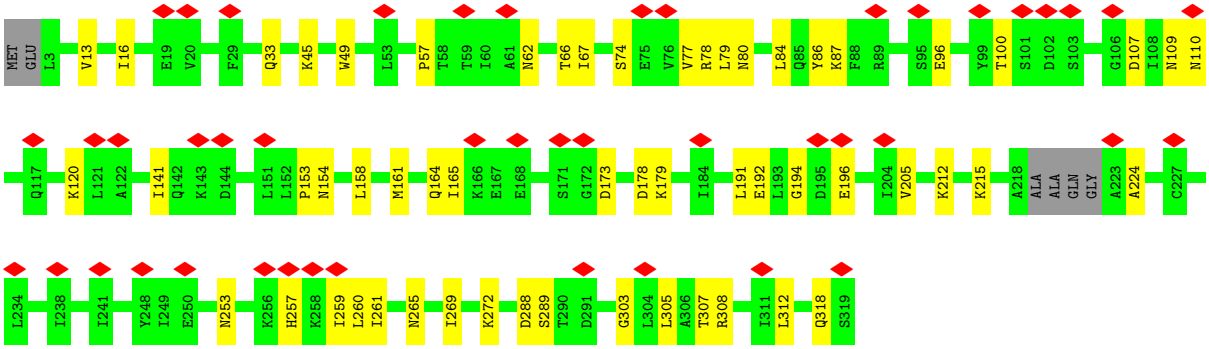




• Molecule 1: Cytosolic protein

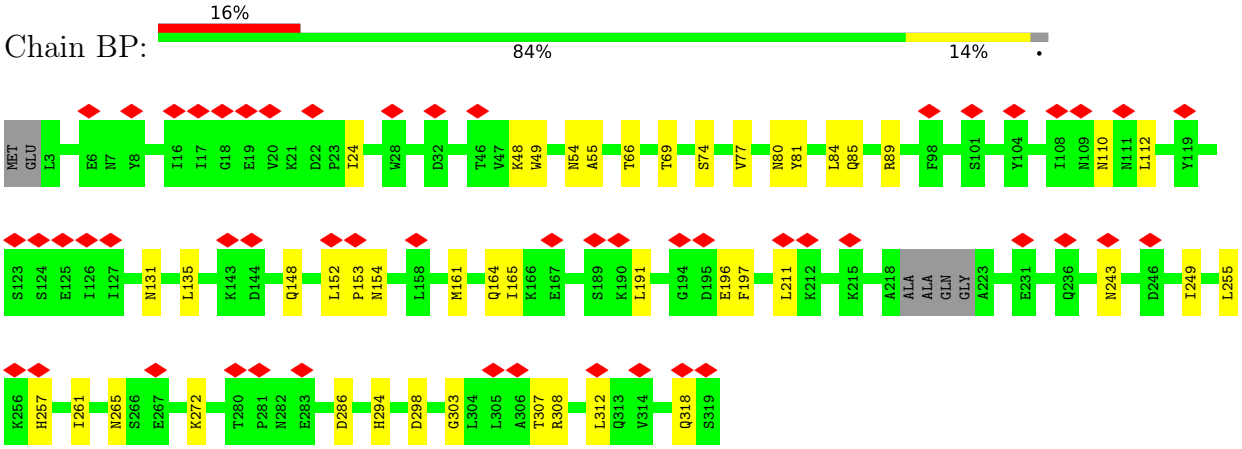
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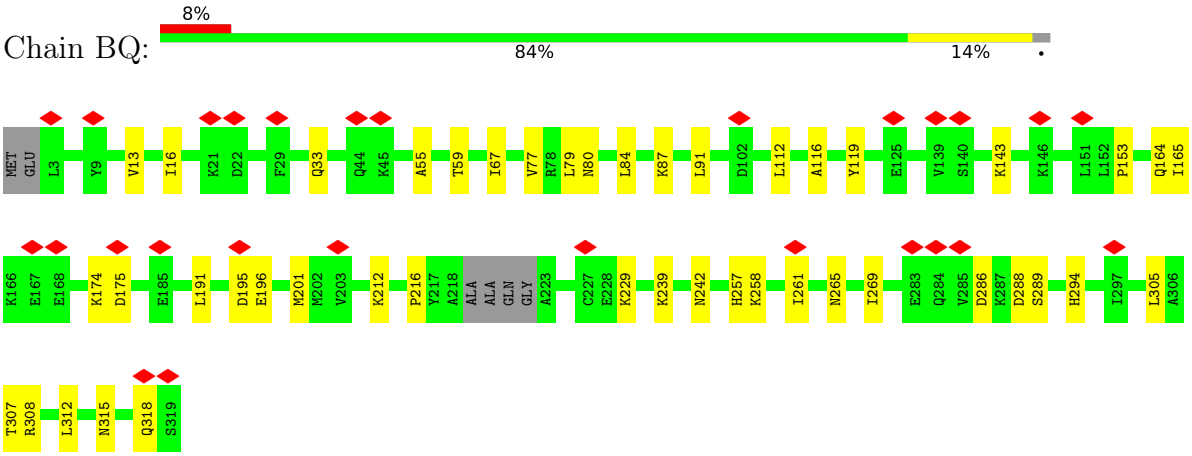
• Molecule 1: Cytosolic protein

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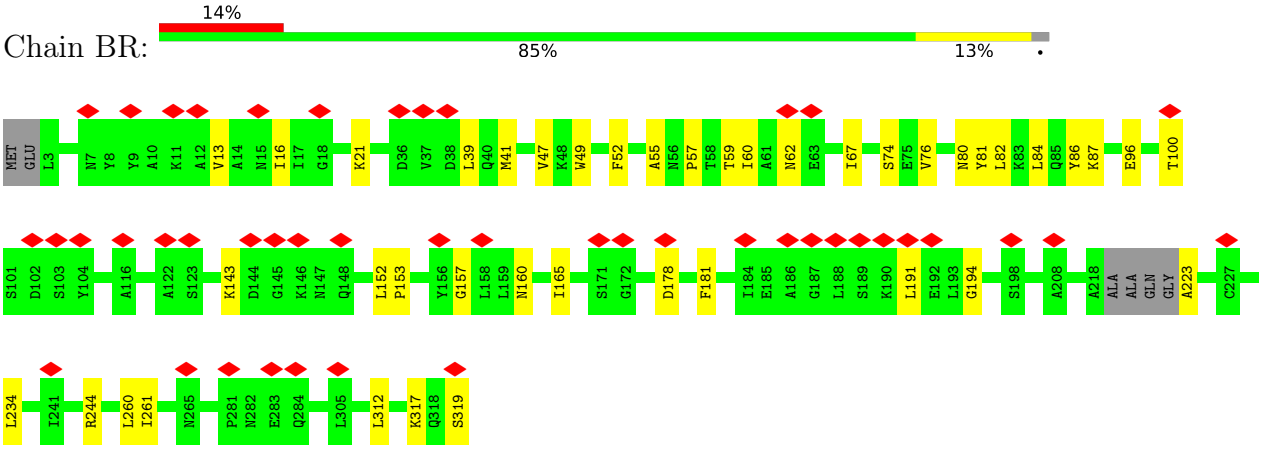
• Molecule 1: Cytosolic protein

Chain BQ:



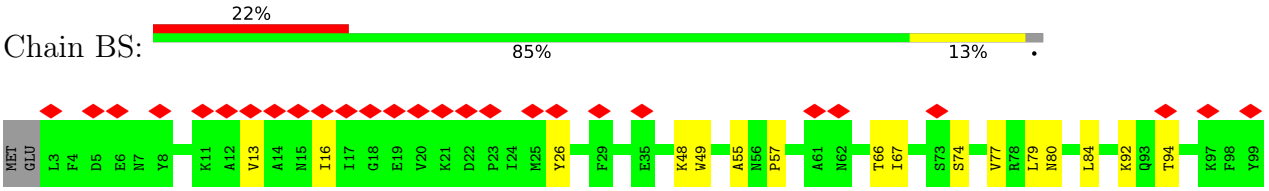
• Molecule 1: Cytosolic protein

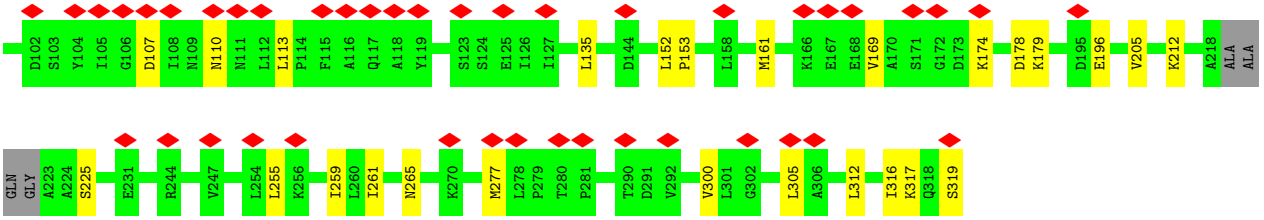
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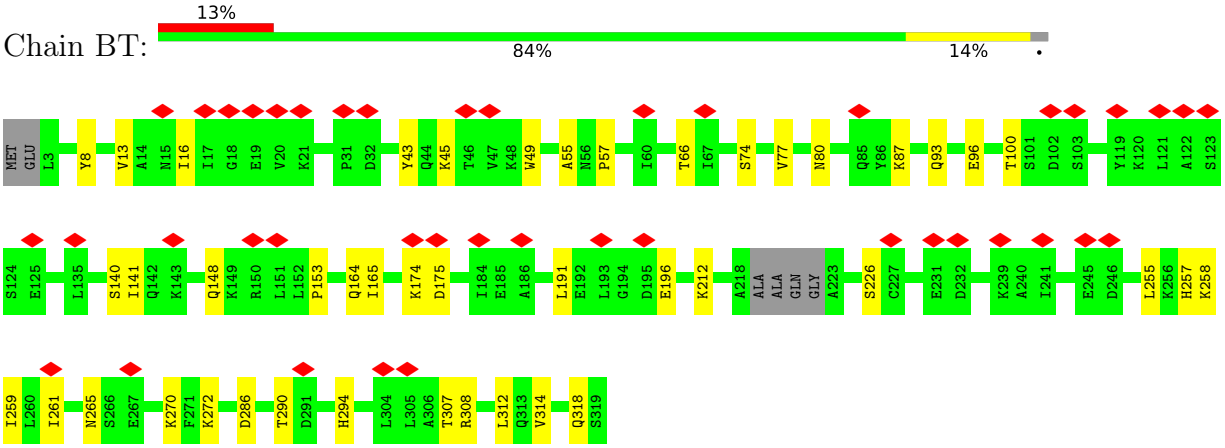
• Molecule 1: Cytosolic protein

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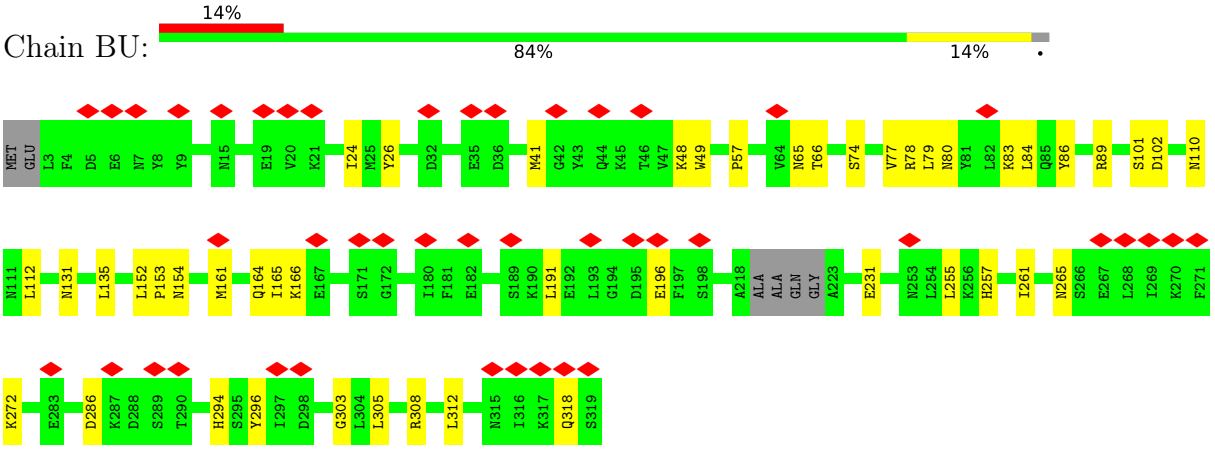




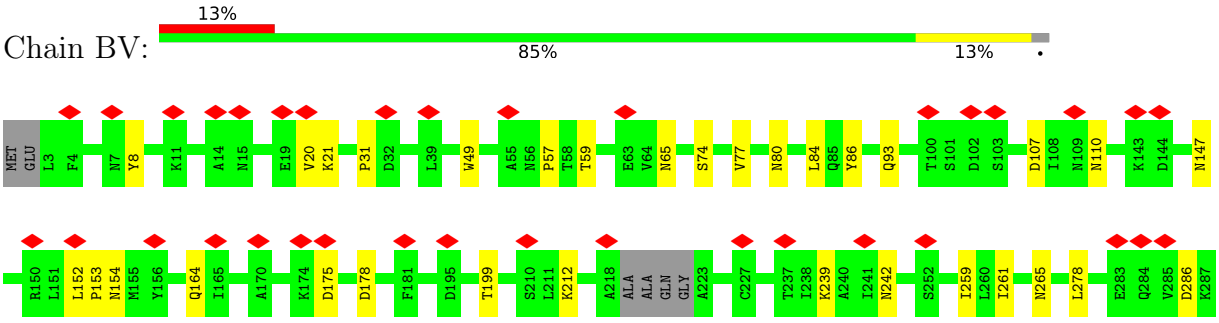
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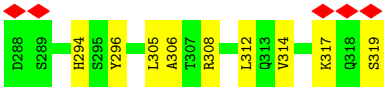


• Molecule 1: Cytosolic protein



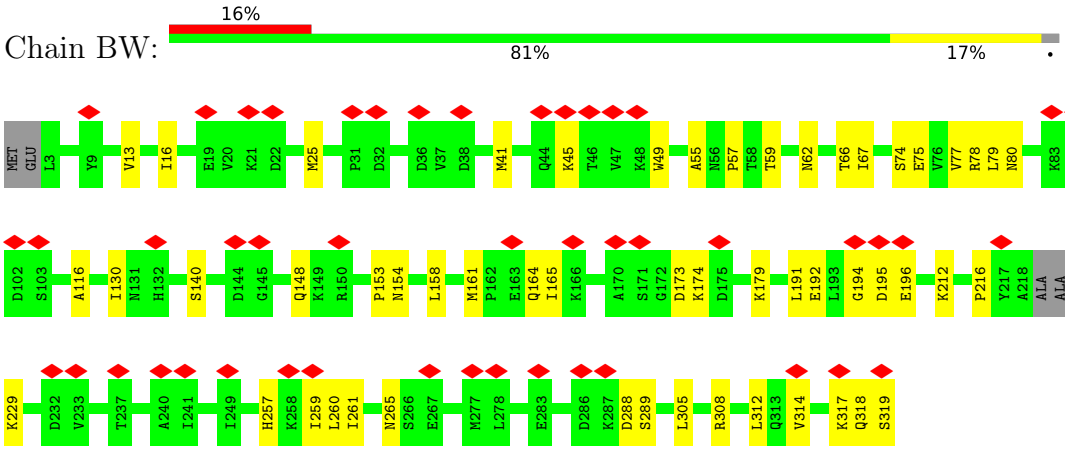
• Molecule 1: Cytosolic protein





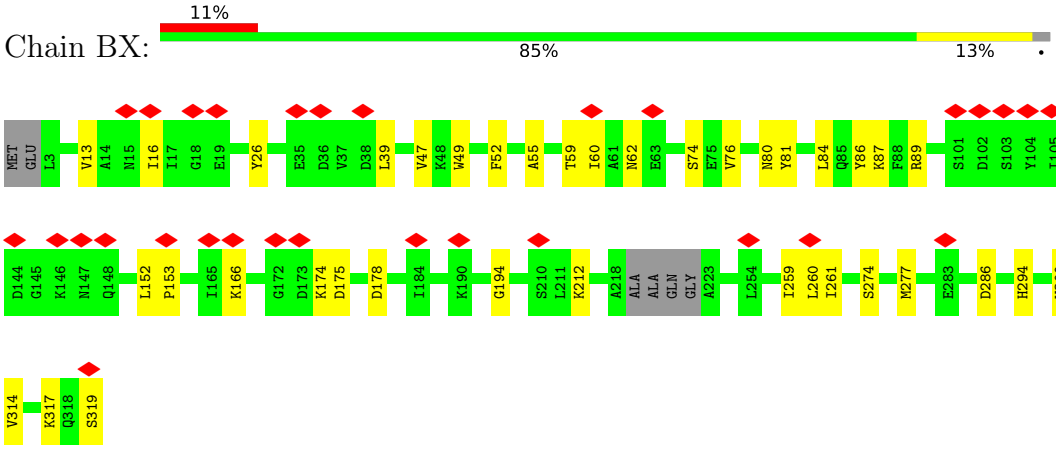
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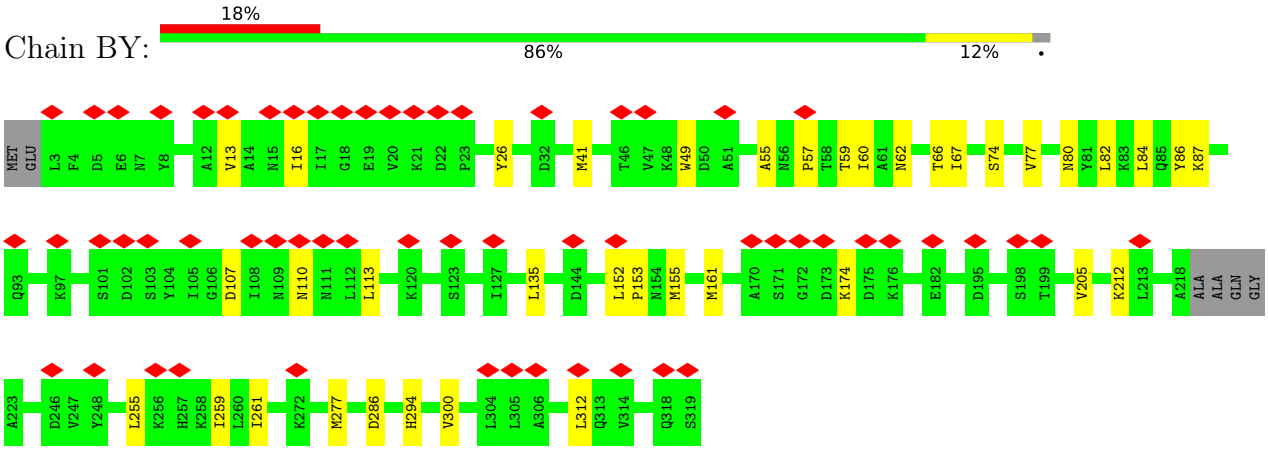
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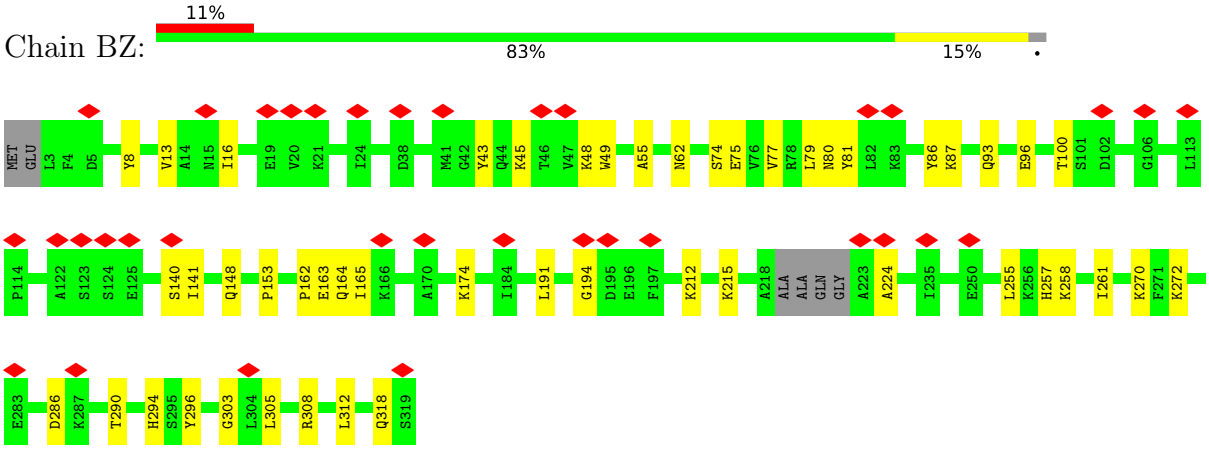
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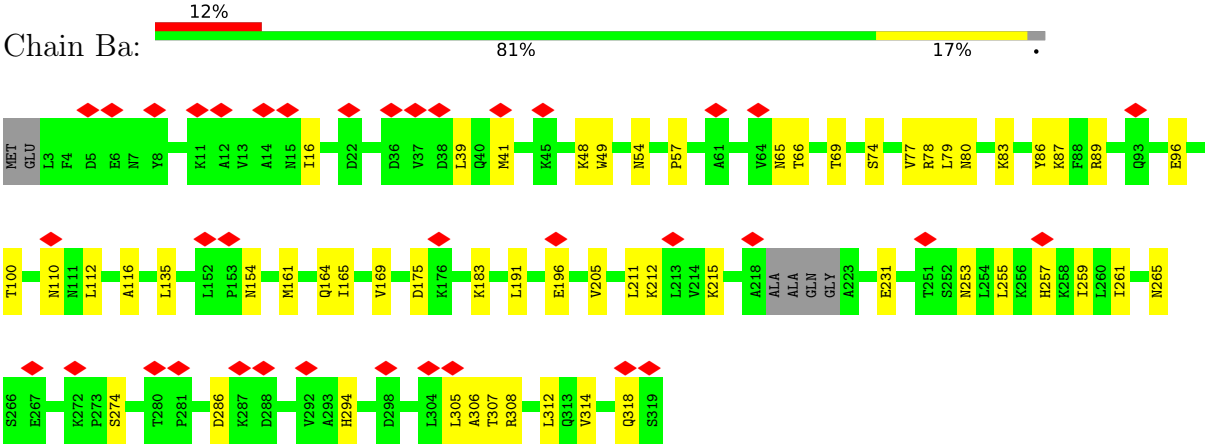
• Molecule 1: Cytosolic protein

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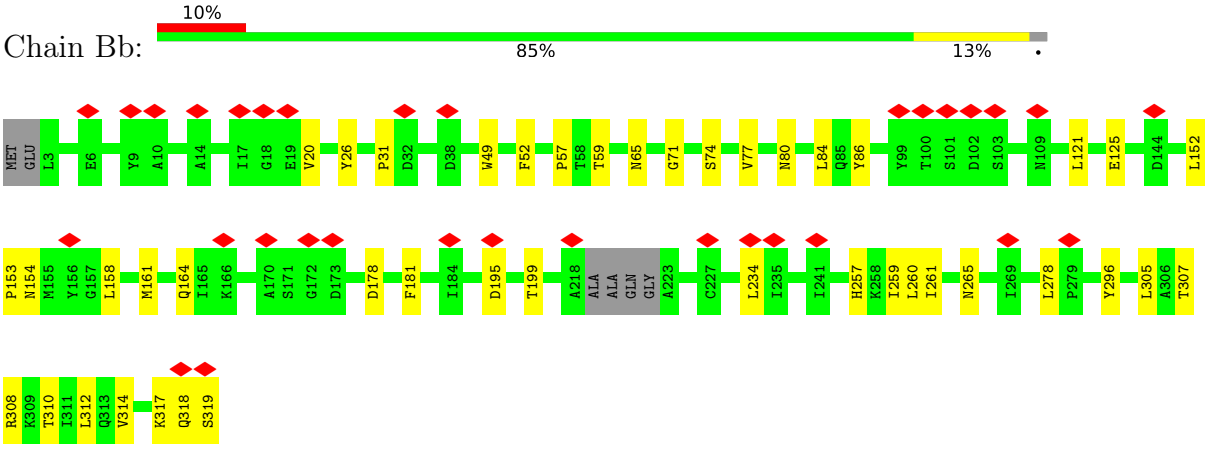
• Molecule 1: Cytosolic protein

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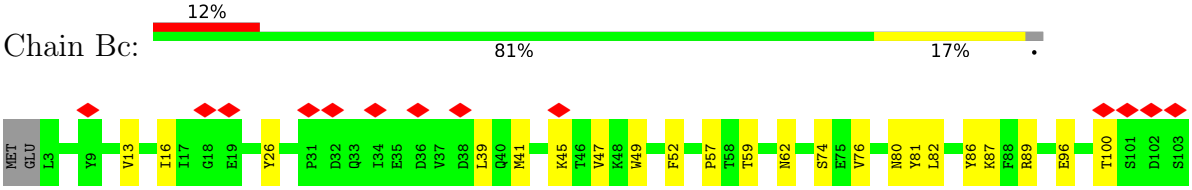
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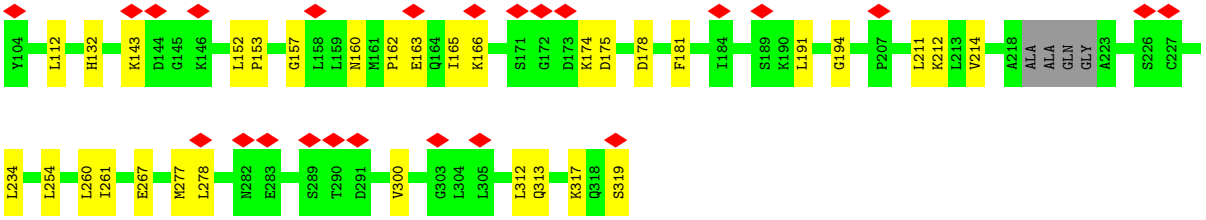
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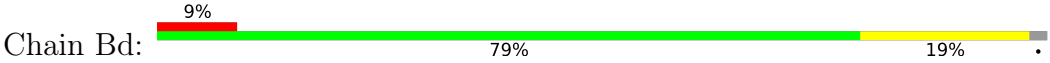
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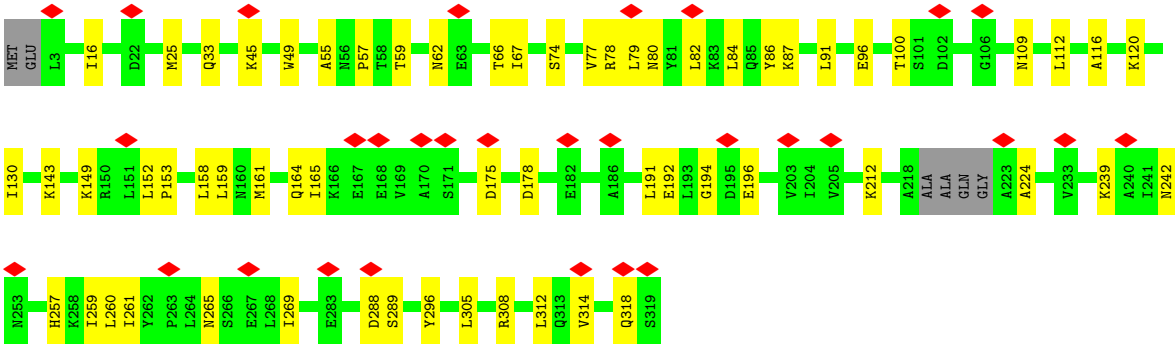
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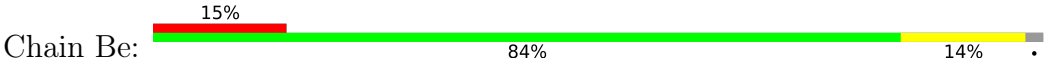


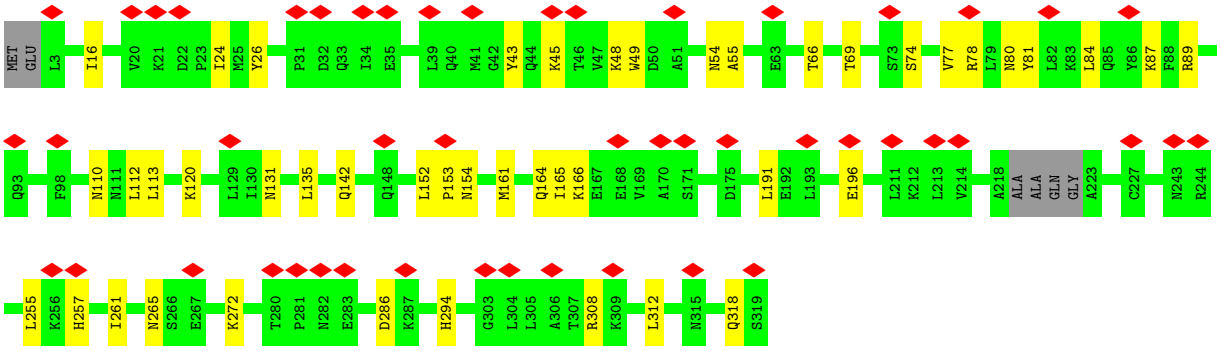
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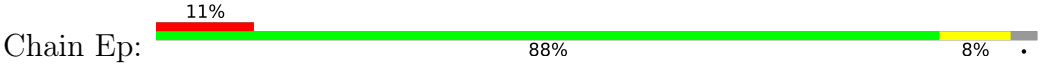


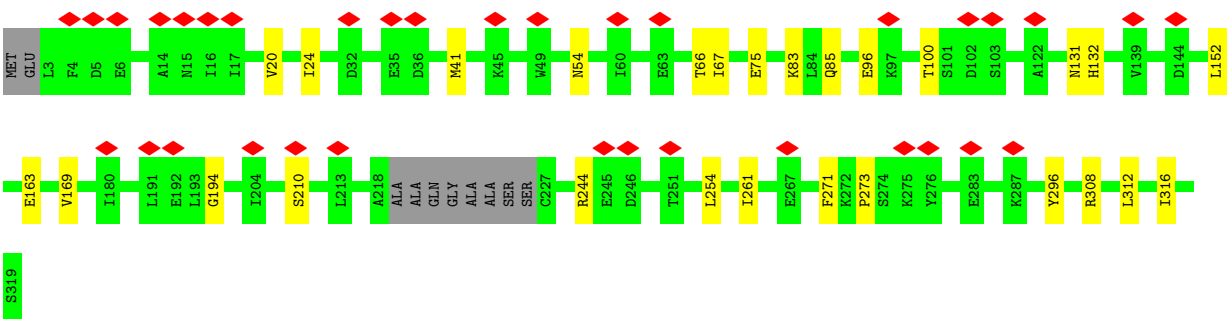
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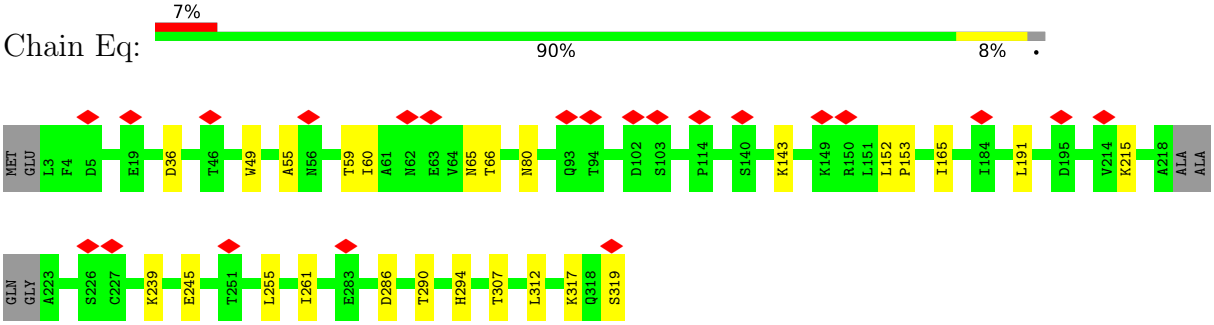
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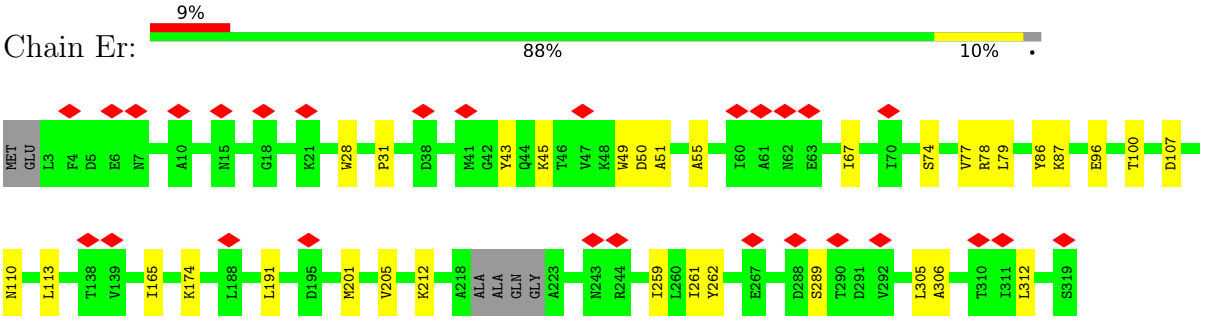
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Chain Eq:



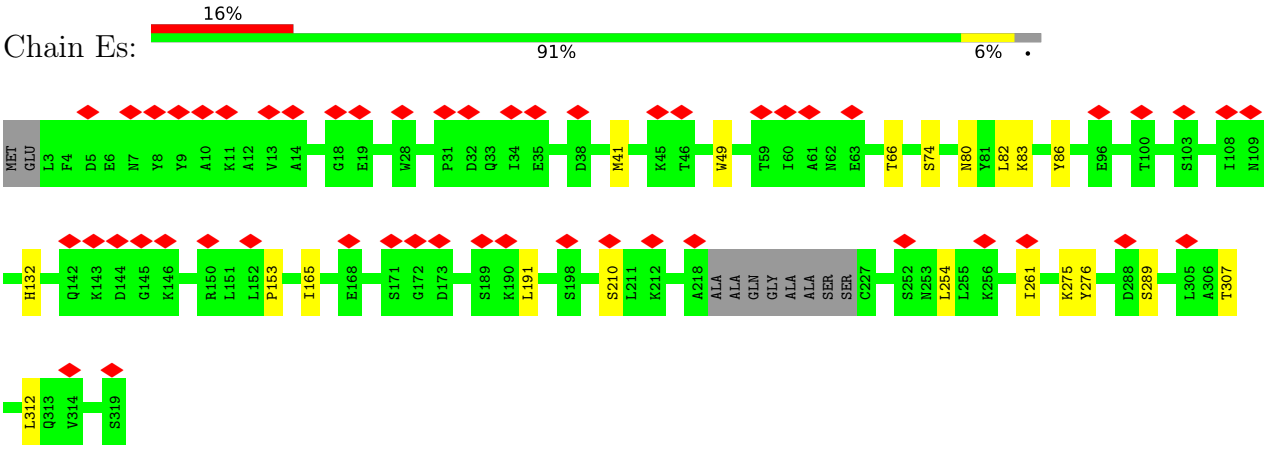
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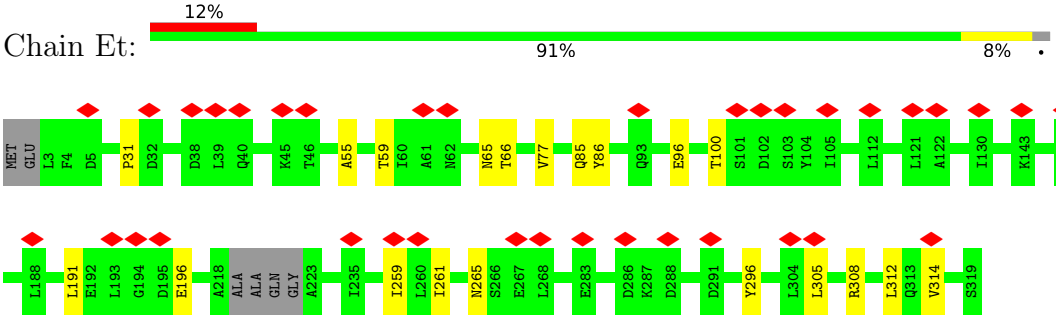
• Molecule 1: Cytosolic protein

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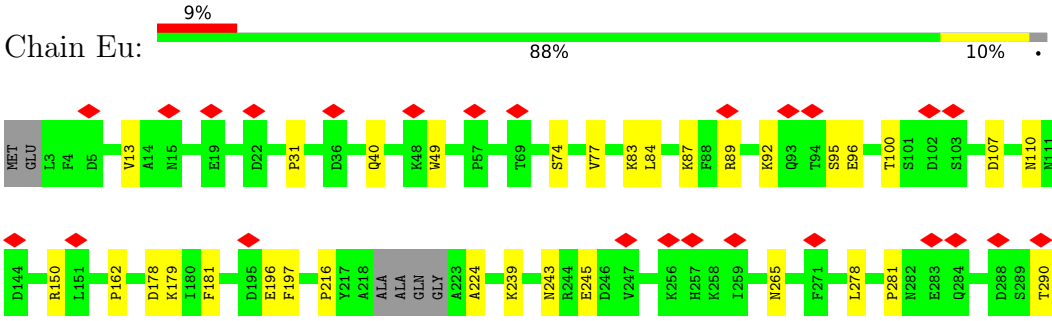
• Molecule 1: Cytosolic protein

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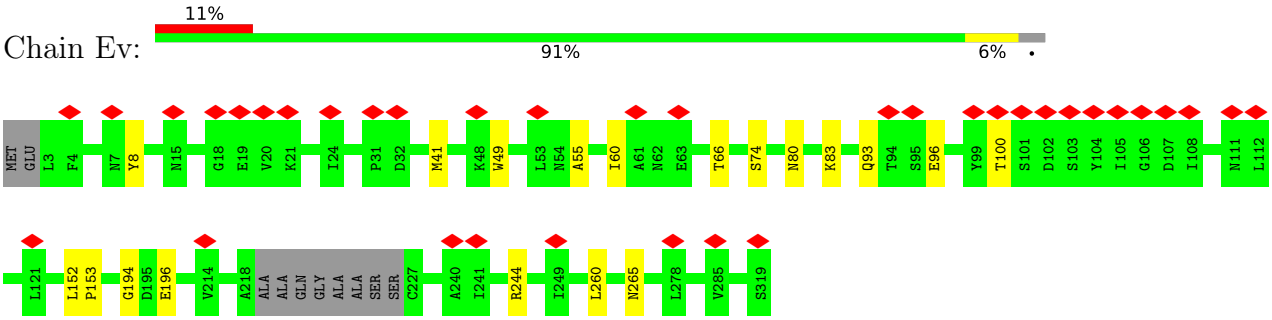
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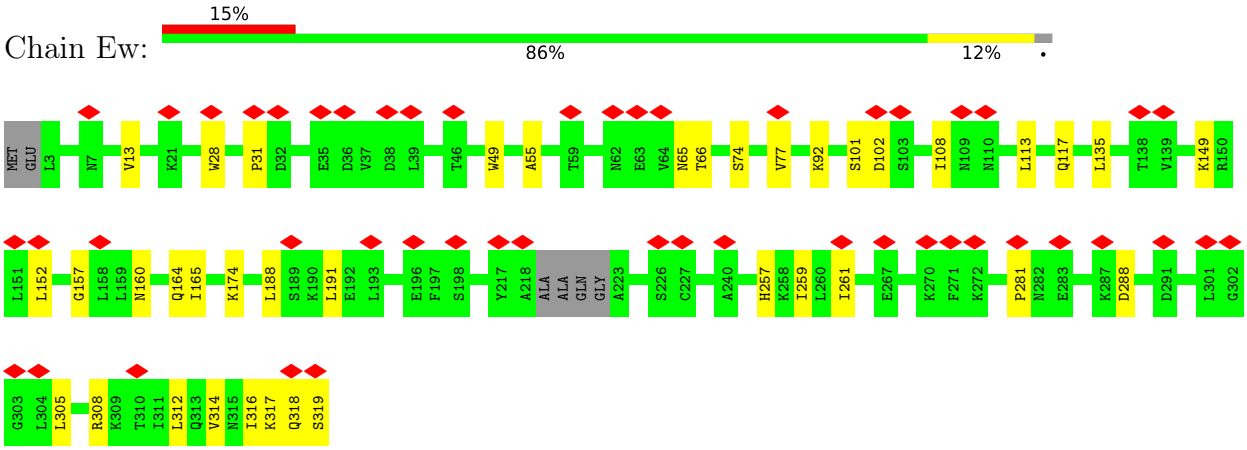
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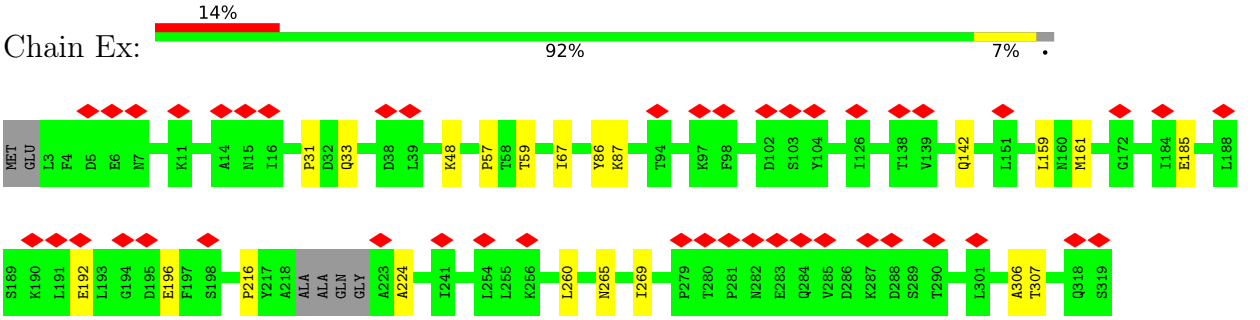
• Molecule 1: Cytosolic protein

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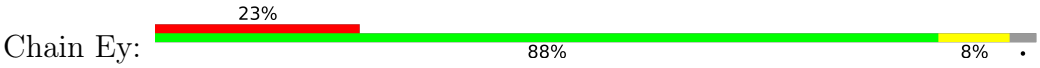
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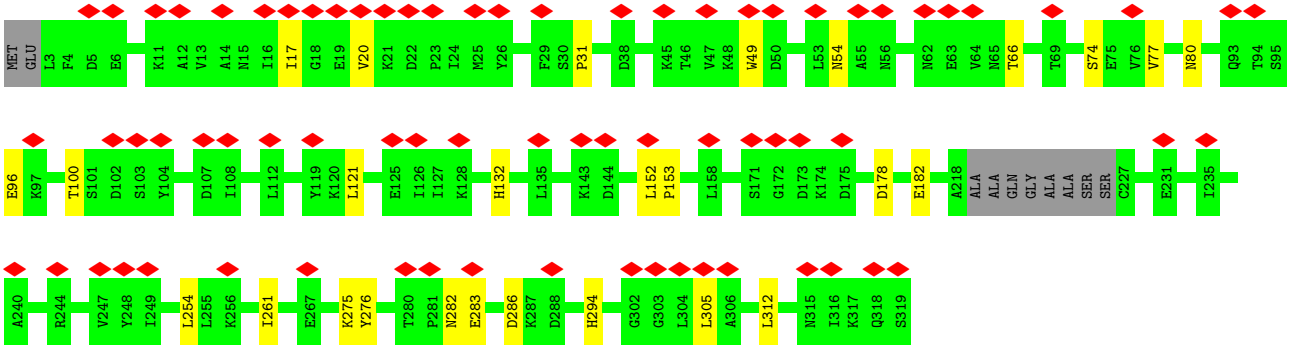
Chain Ex:



• Molecule 1: Cytosolic protein

Chain Ey:

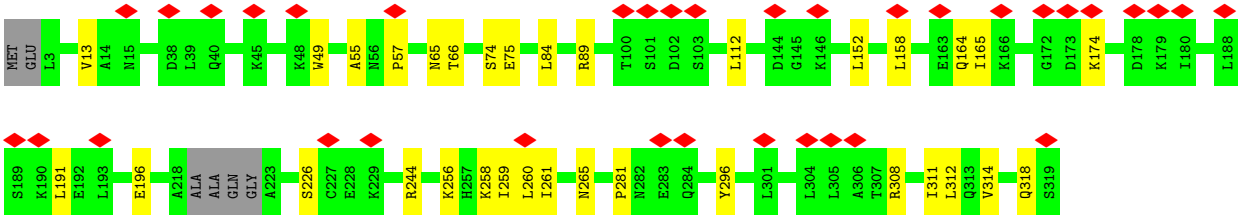




• Molecule 1: Cytosolic protein

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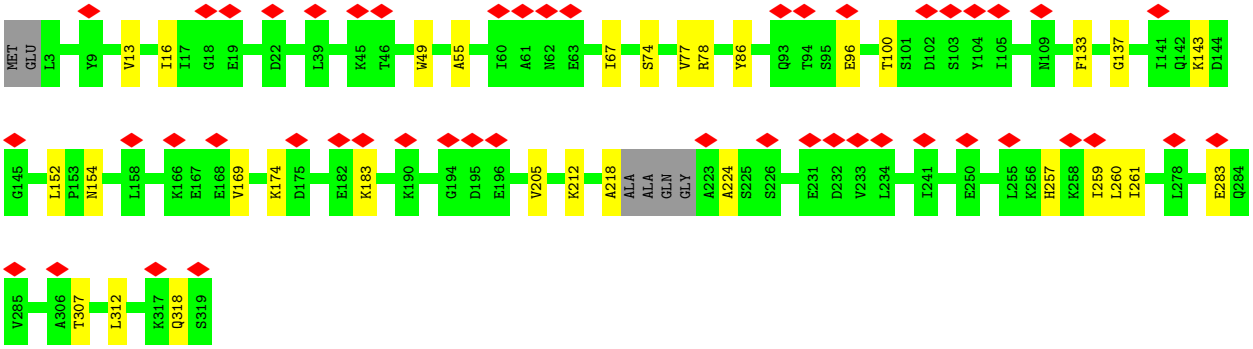




• Molecule 1: Cytosolic protein

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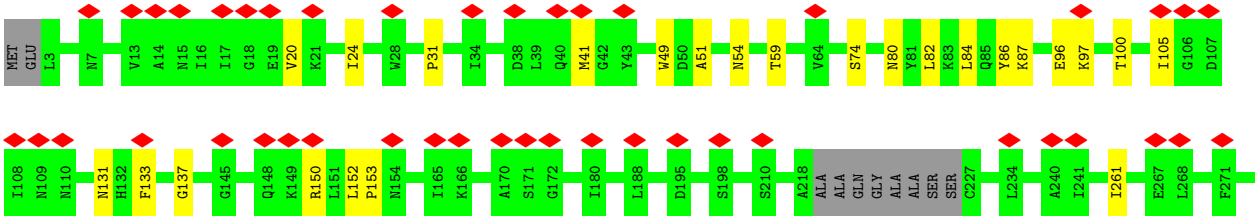


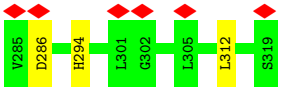


• Molecule 1: Cytosolic protein

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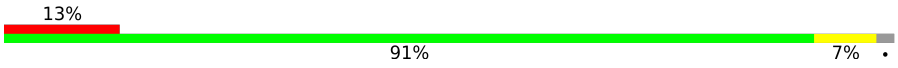


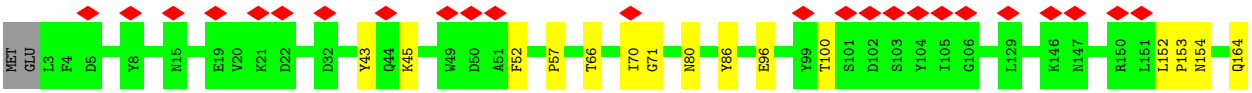


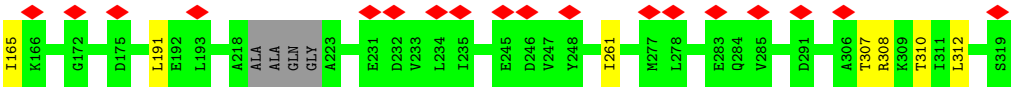


• Molecule 1: Cytosolic protein

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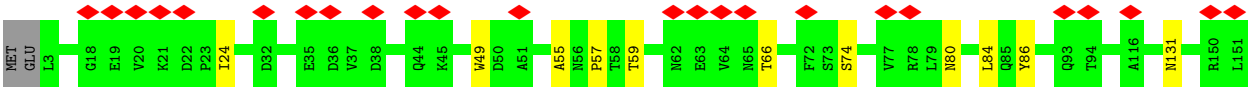


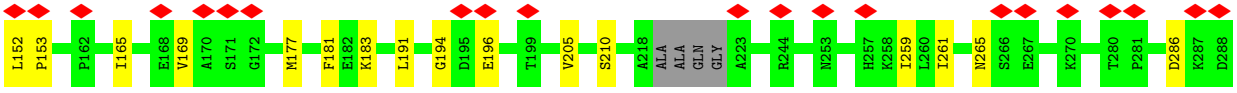


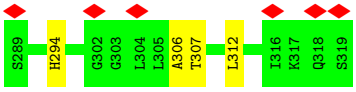
• Molecule 1: Cytosolic protein

Chain FD:



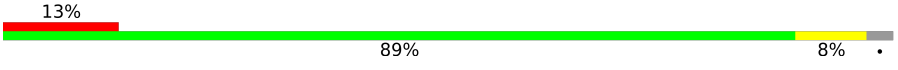


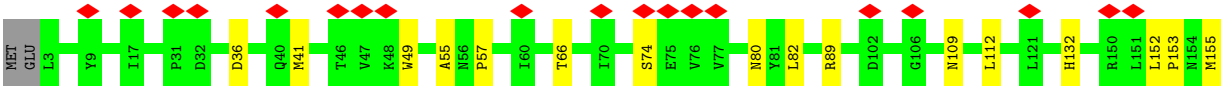


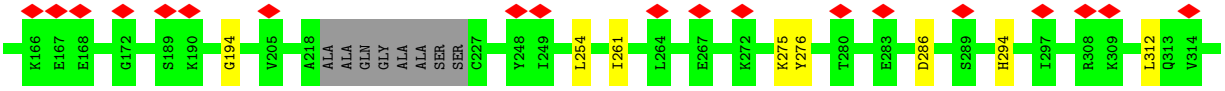


• Molecule 1: Cytosolic protein

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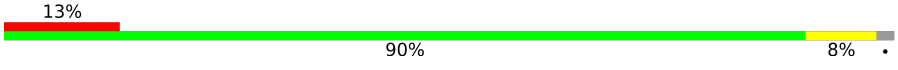


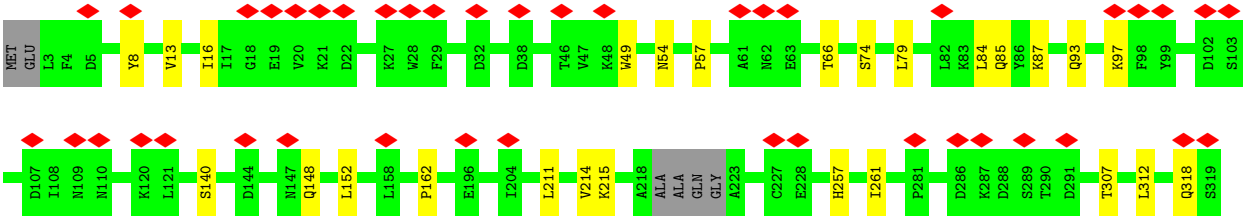




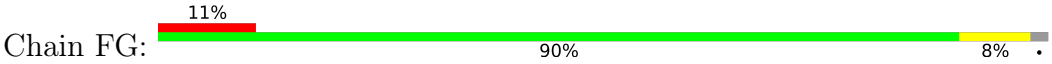
• Molecule 1: Cytosolic protein

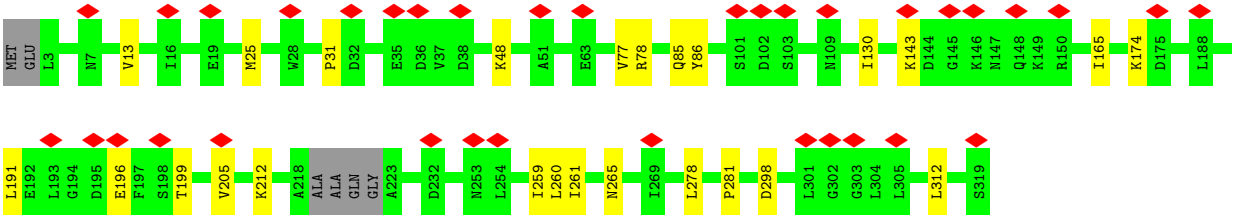
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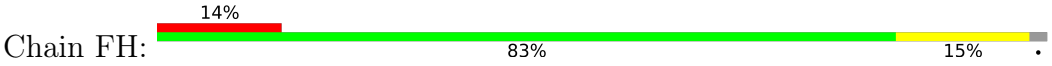


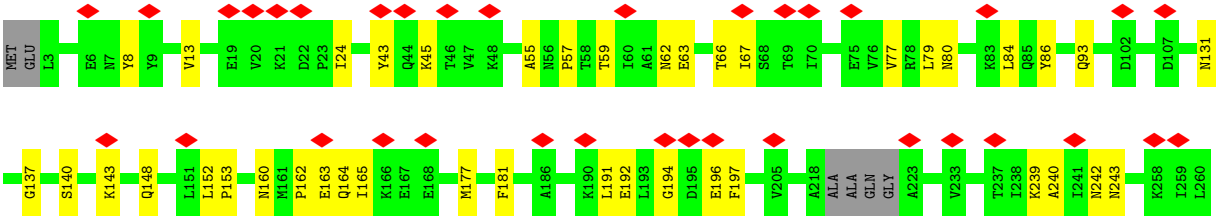
• Molecule 1: Cytosolic protein



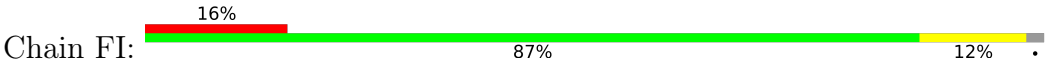


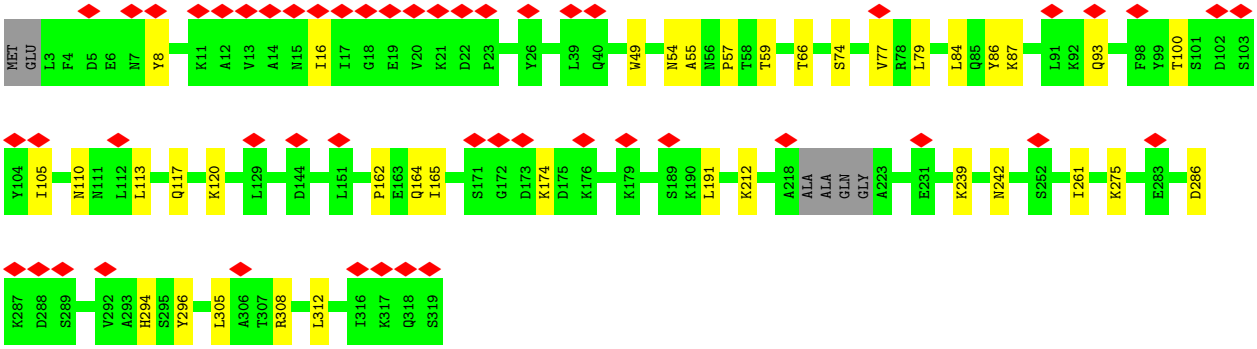
• Molecule 1: Cytosolic protein





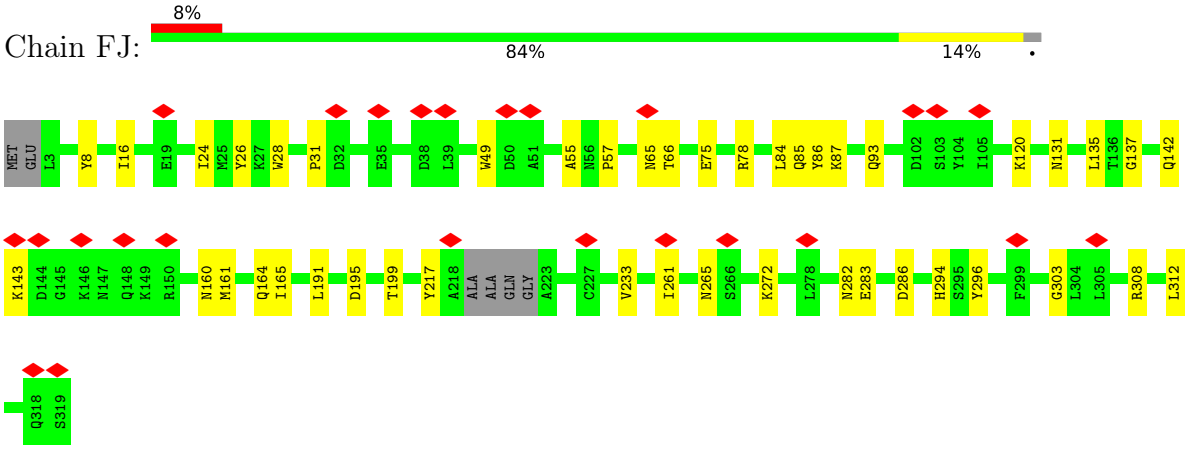
• Molecule 1: Cytosolic protein





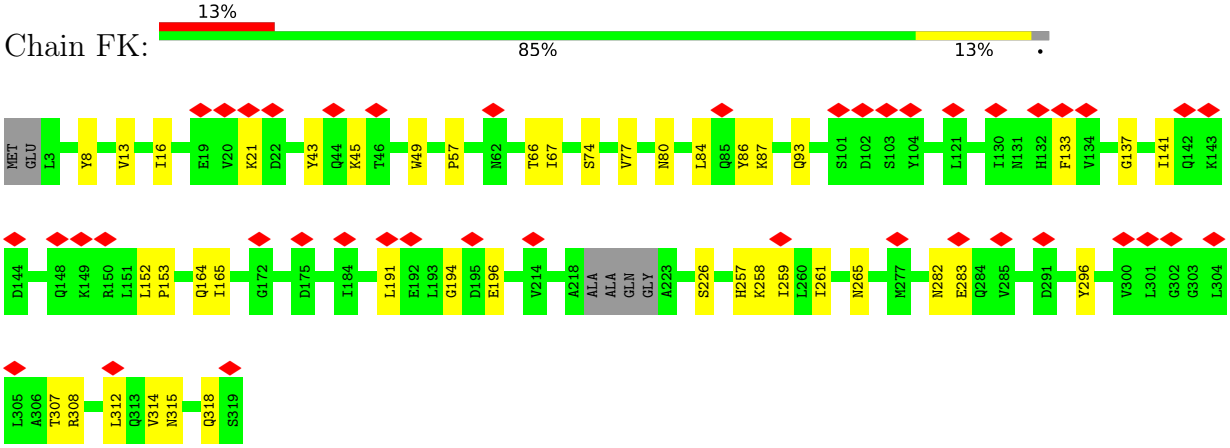
• Molecule 1: Cytosolic protein

Chain FJ:



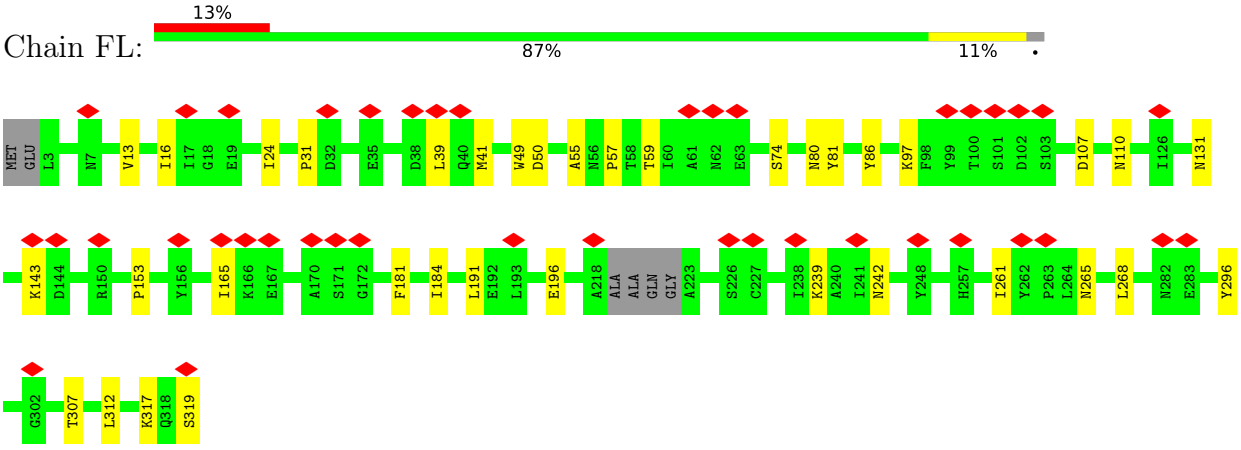
• Molecule 1: Cytosolic protein

Chain FK:



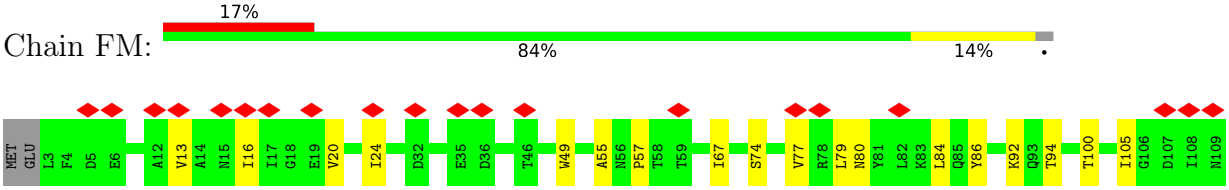
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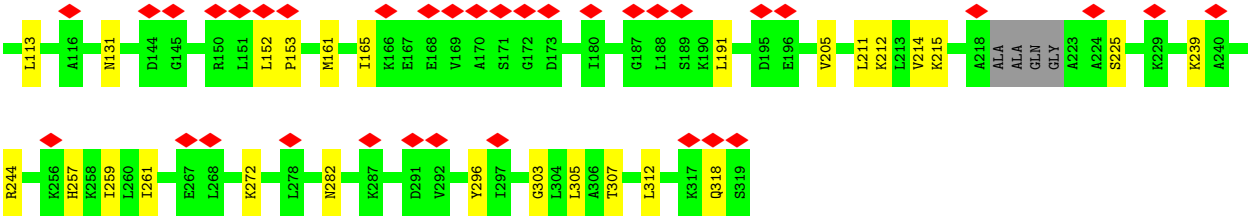
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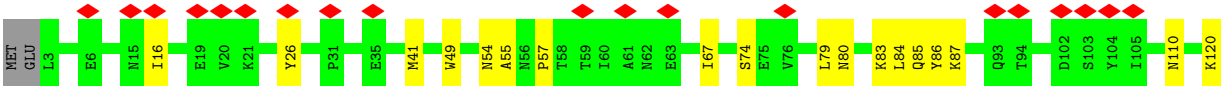
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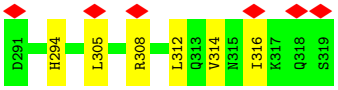


• Molecule 1: Cytosolic protein

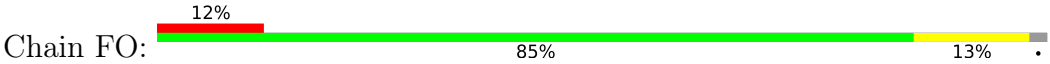


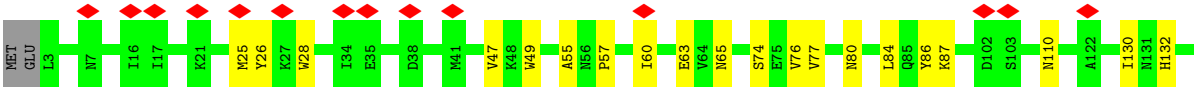


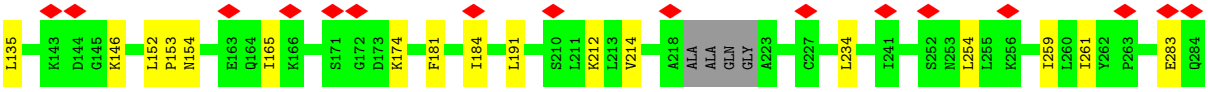


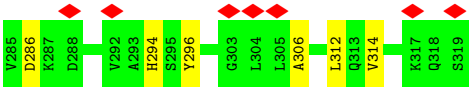


• Molecule 1: Cytosolic protein

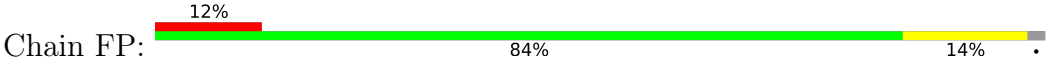


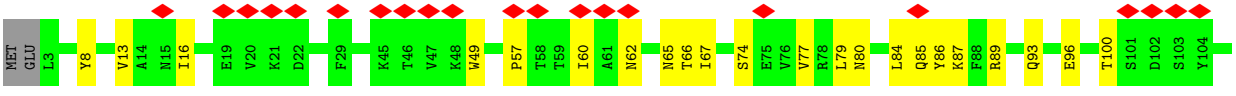




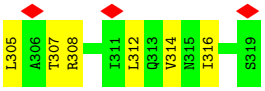


• Molecule 1: Cytosolic protein



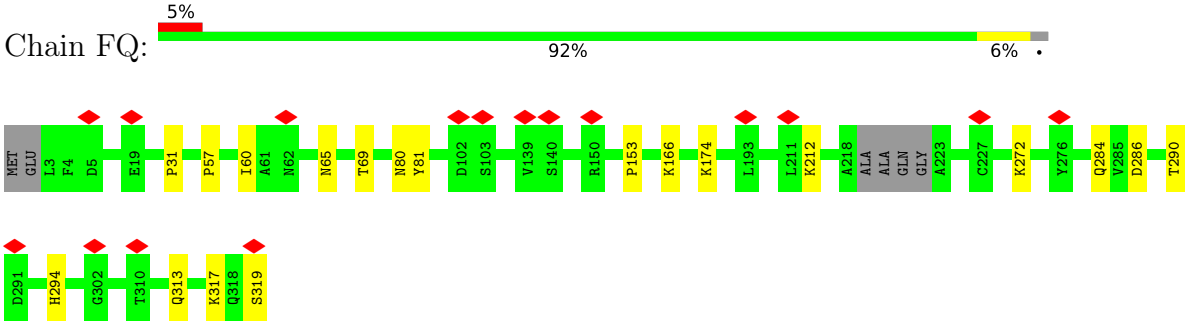






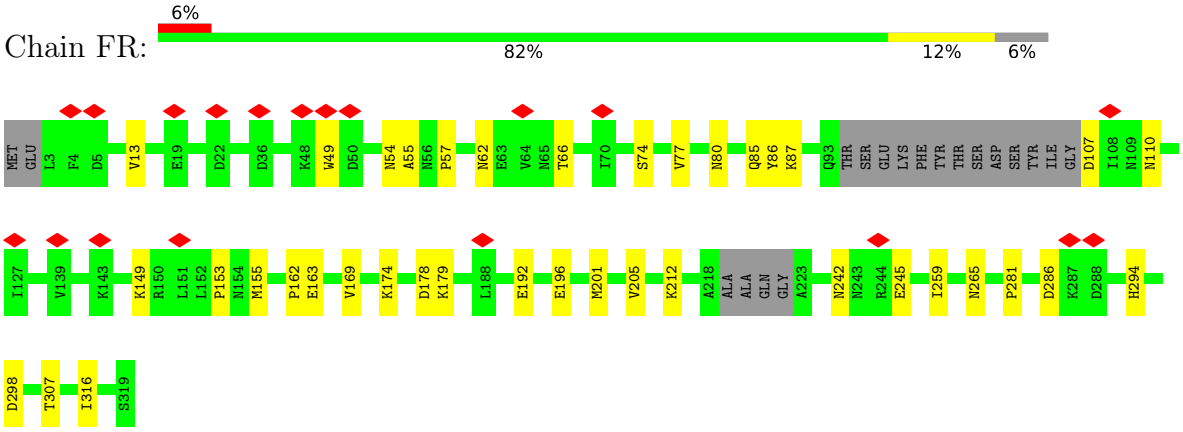
• Molecule 1: Cytosolic protein

Chain FQ:



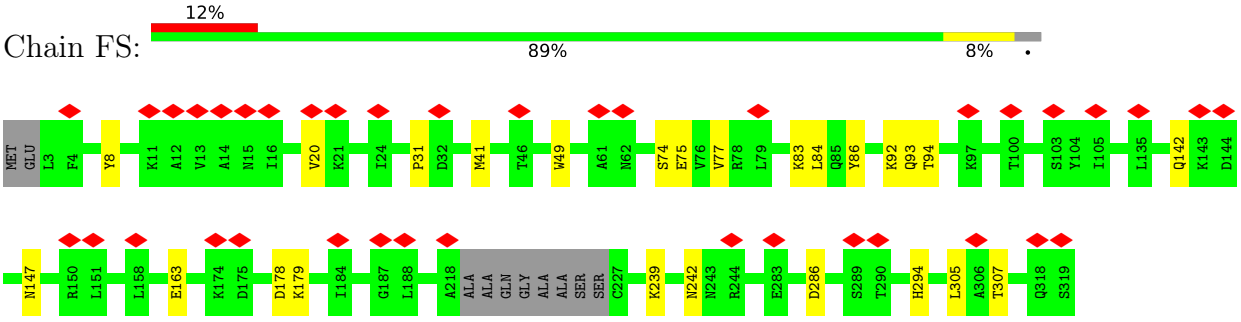
• Molecule 1: Cytosolic protein

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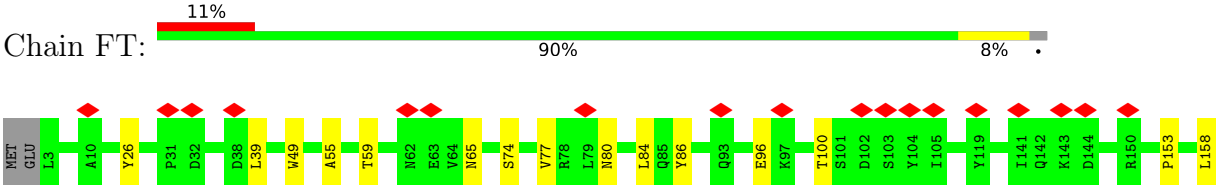
• Molecule 1: Cytosolic protein

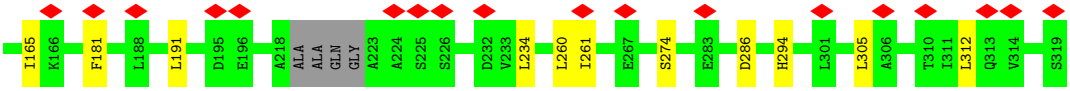
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• Molecule 1: Cytosolic protein

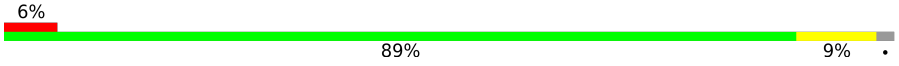
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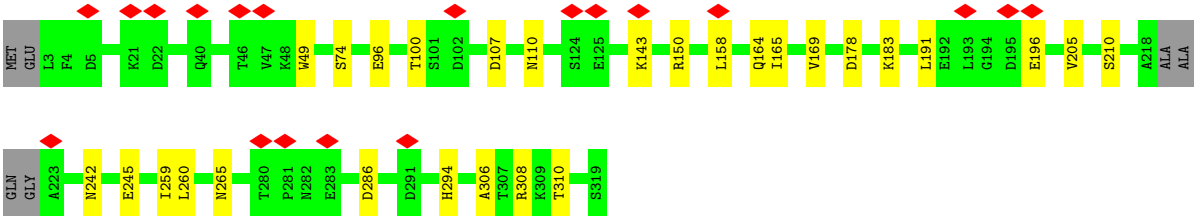




• Molecule 1: Cytosolic protein

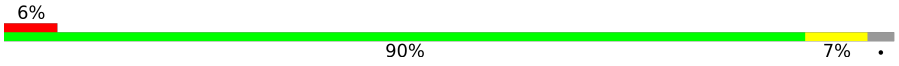
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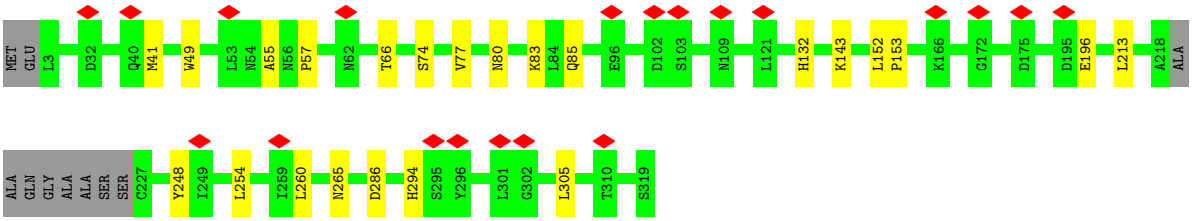




• Molecule 1: Cytosolic protein

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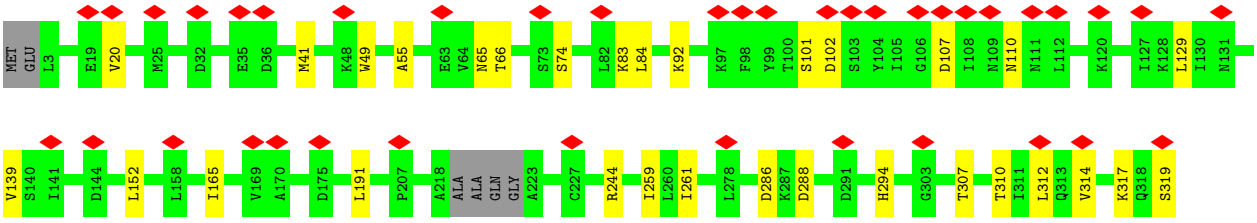




• Molecule 1: Cytosolic protein

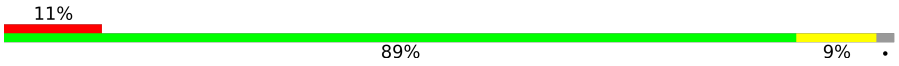
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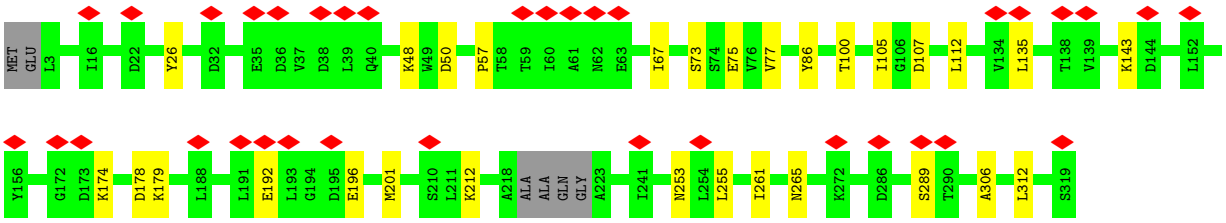




• Molecule 1: Cytosolic protein

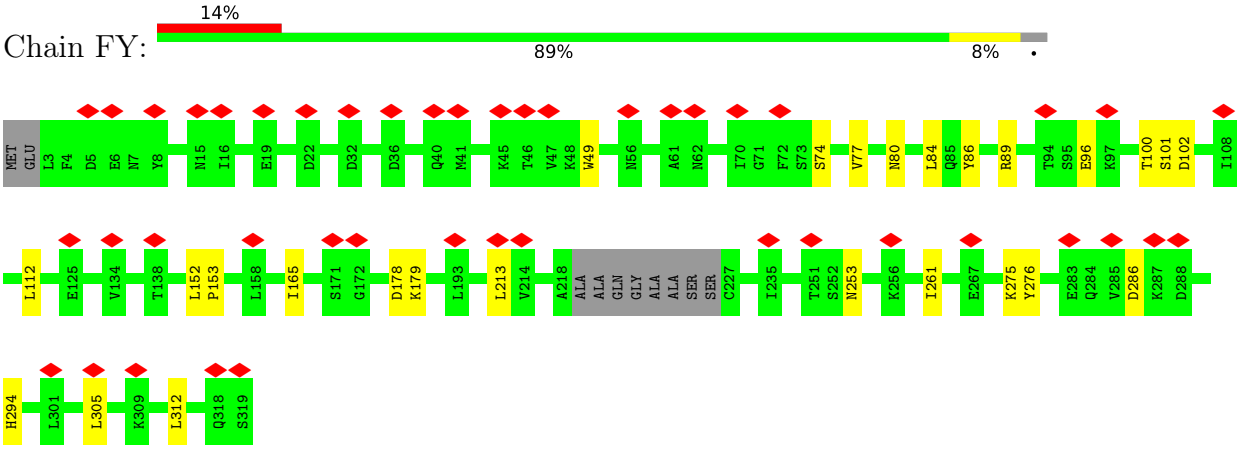
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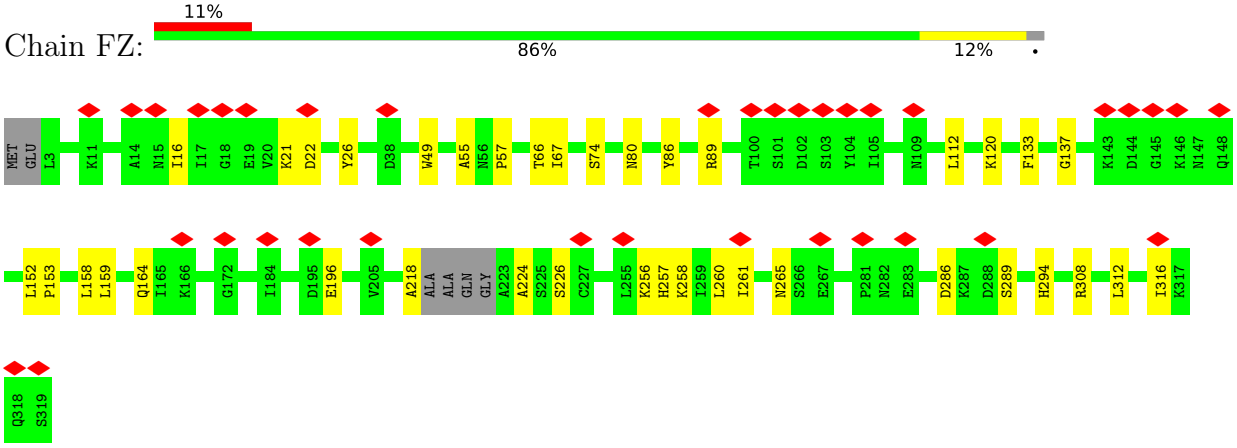
• Molecule 1: Cytosolic protein

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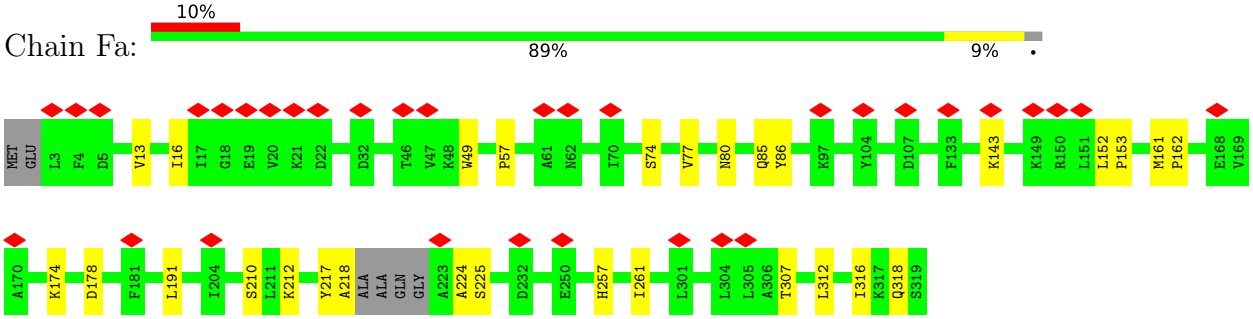
• Molecule 1: Cytosolic protein

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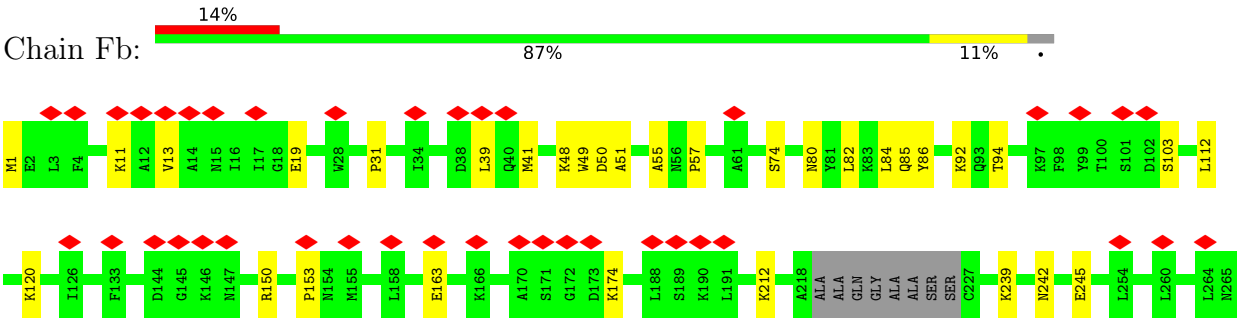
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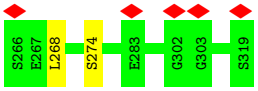
Chain Fa:



• Molecule 1: Cytosolic protein

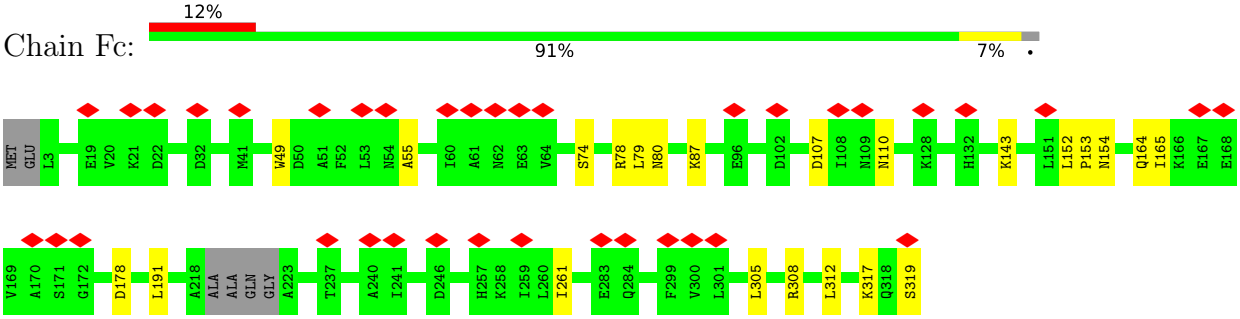
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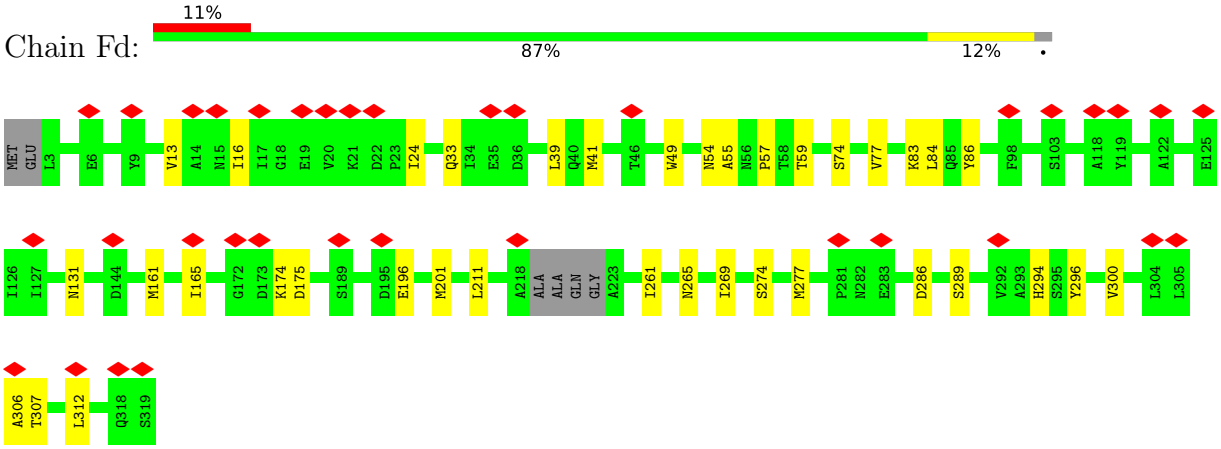
• Molecule 1: Cytosolic protein

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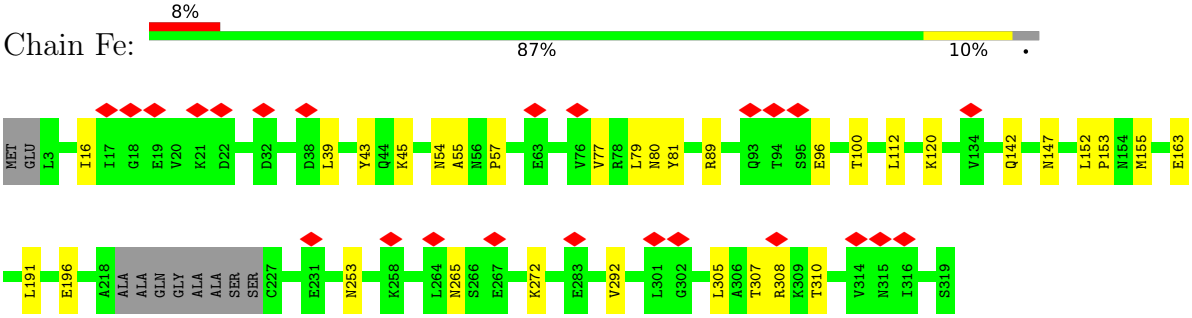
• Molecule 1: Cytosolic protein

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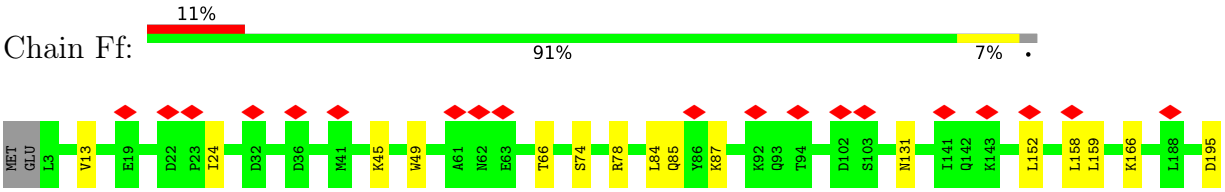
• Molecule 1: Cytosolic protein

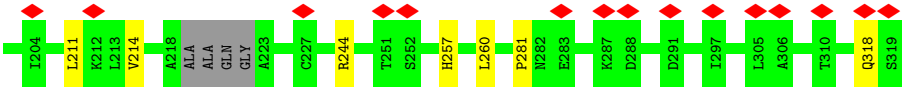
Chain Fe:



• Molecule 1: Cytosolic protein

Chain Ff:

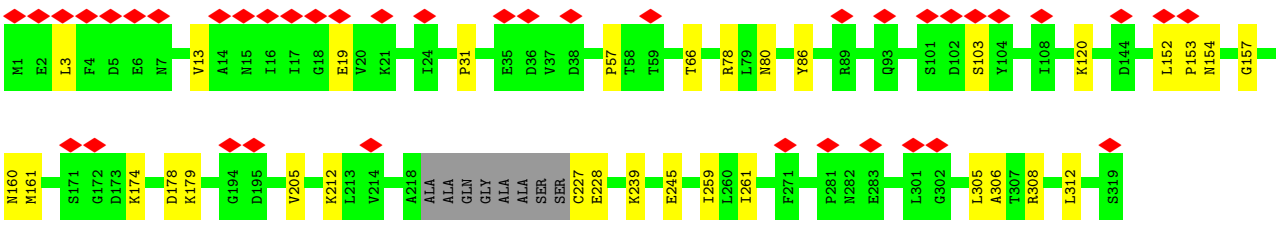




• Molecule 1: Cytosolic protein

Chain Fg:

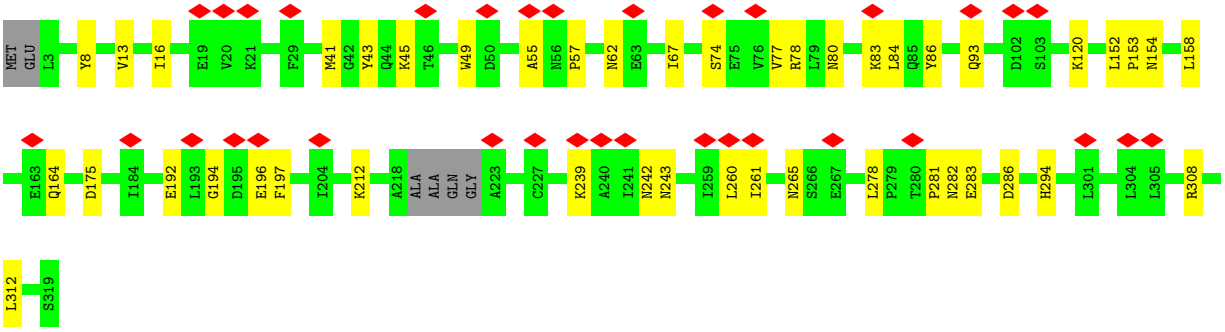




• Molecule 1: Cytosolic protein

Chain Fh:

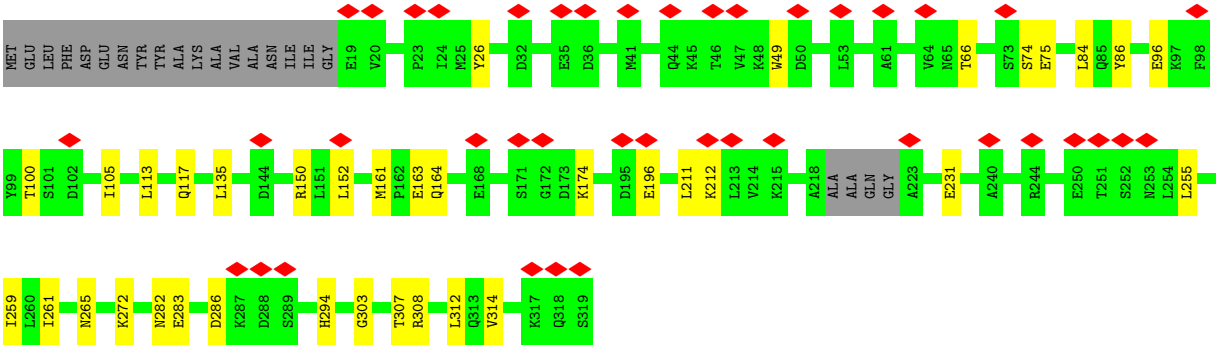




• Molecule 1: Cytosolic protein

Chain Fi:

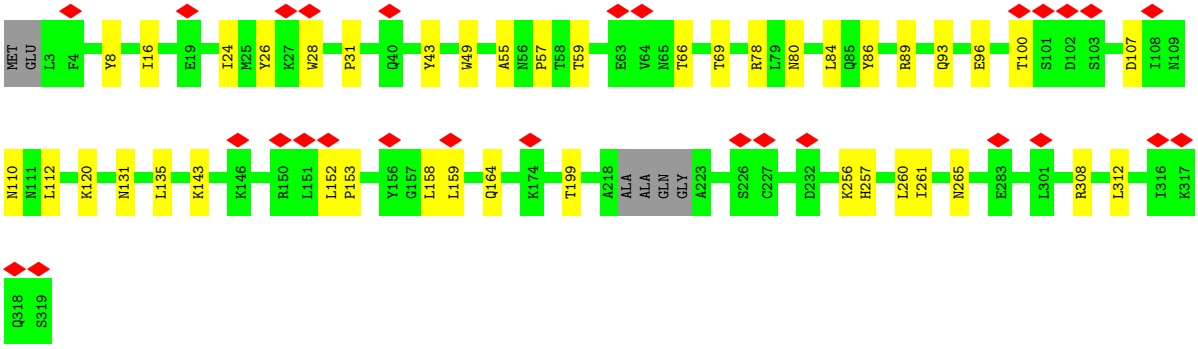




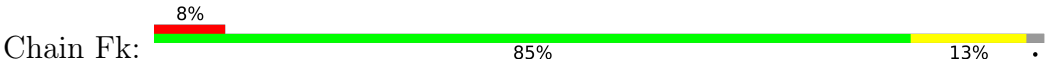
• Molecule 1: Cytosolic protein

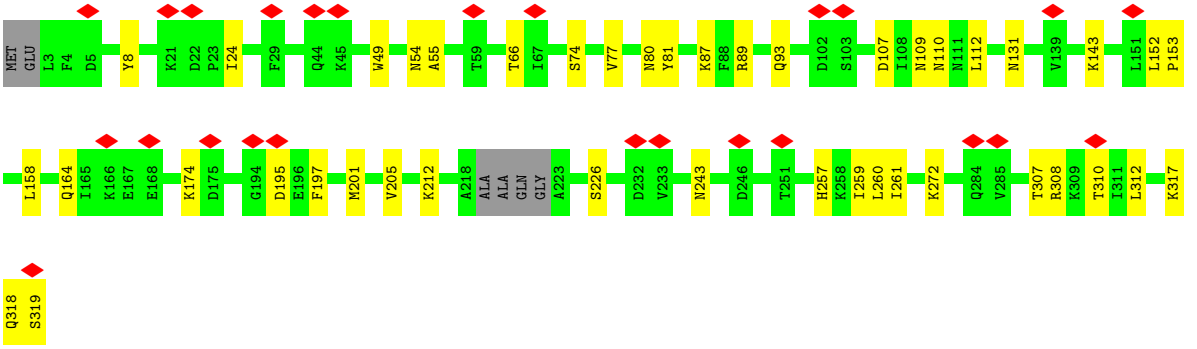
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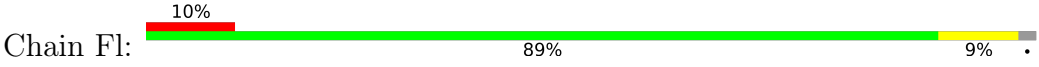


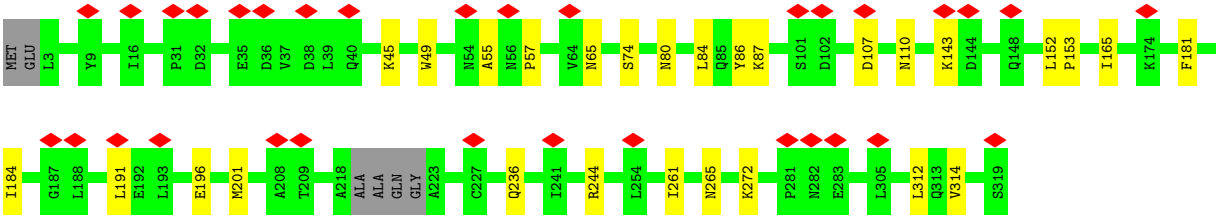
• Molecule 1: Cytosolic protein



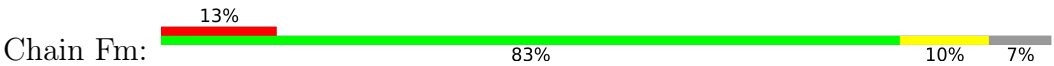


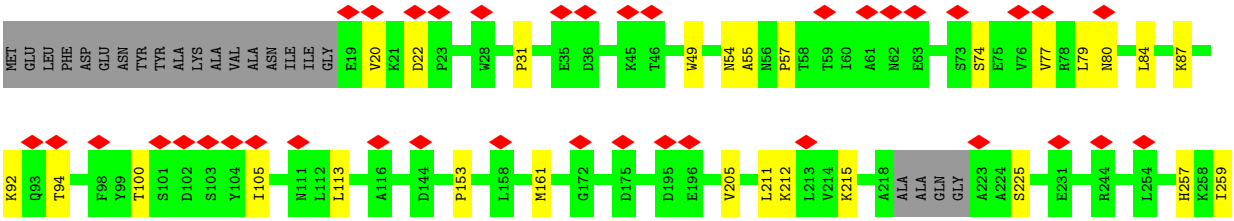
• Molecule 1: Cytosolic protein

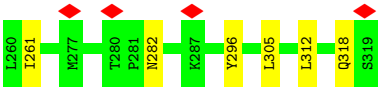




• Molecule 1: Cytosolic protein



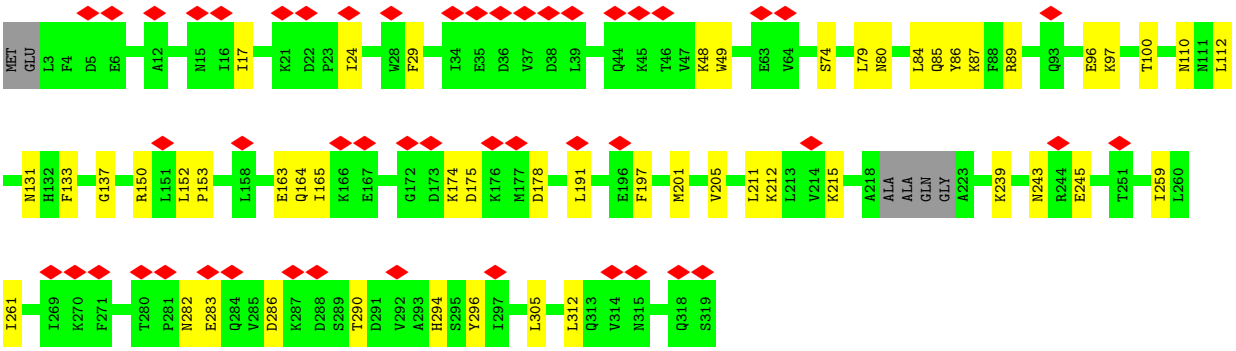




• Molecule 1: Cytosolic protein

Chain Fn:

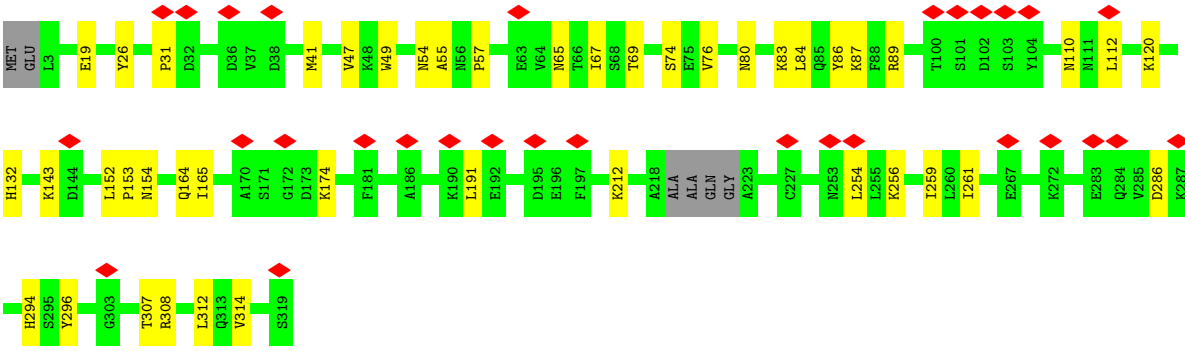




• Molecule 1: Cytosolic protein

Chain Fo:

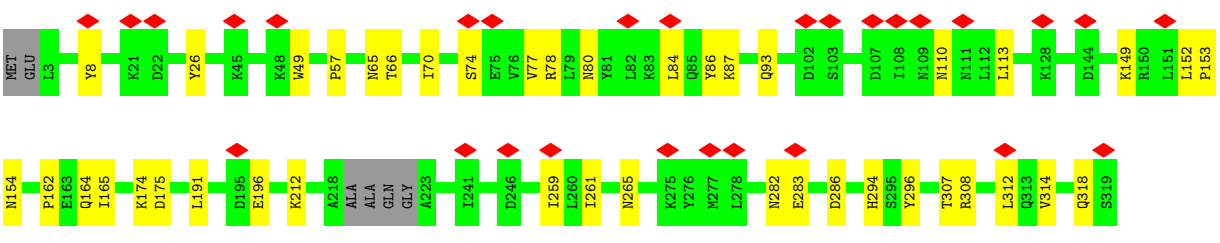




• Molecule 1: Cytosolic protein

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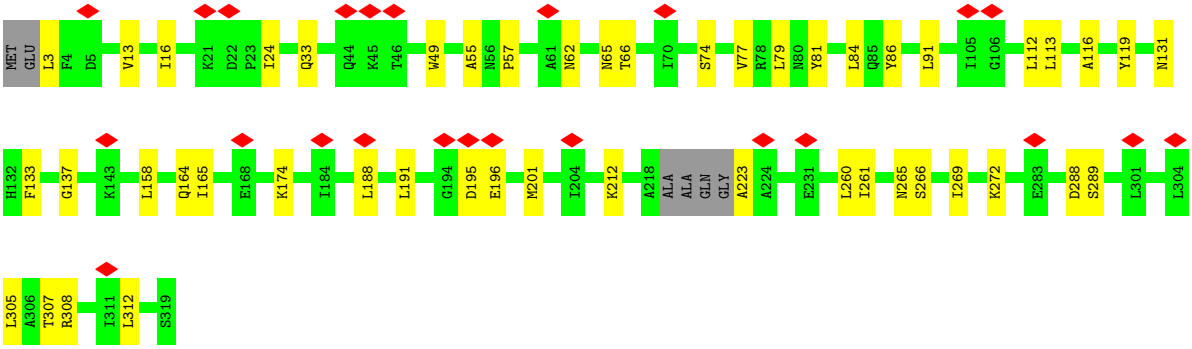




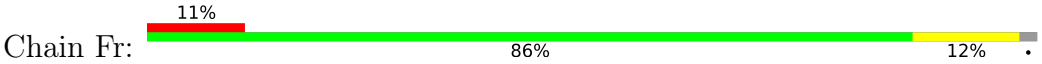
• Molecule 1: Cytosolic protein

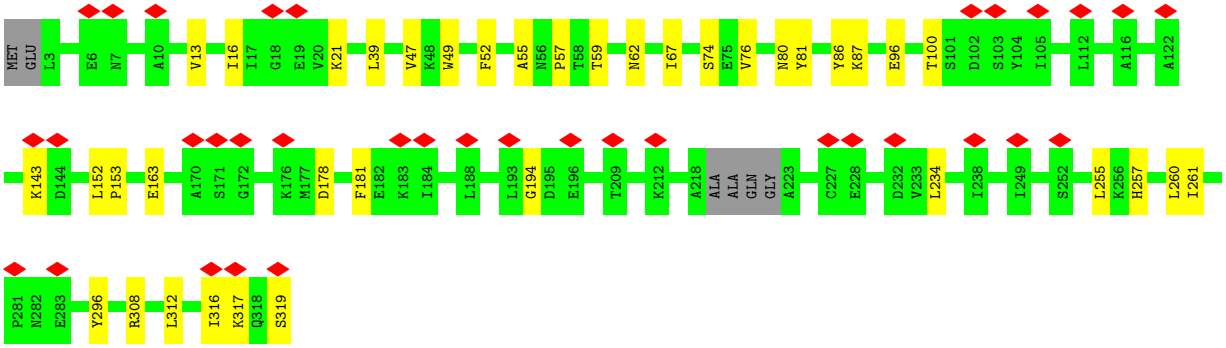
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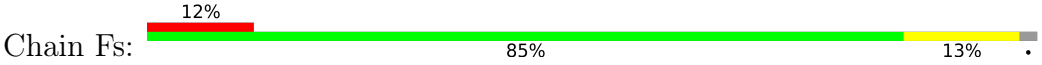


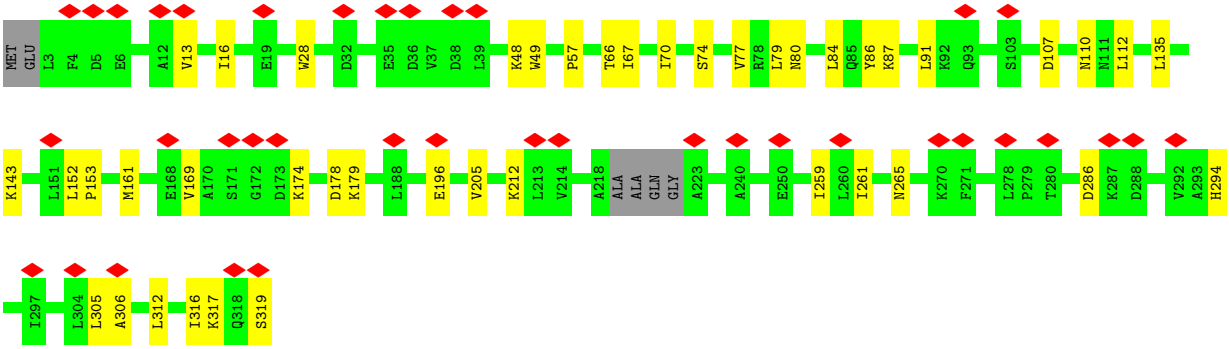
• Molecule 1: Cytosolic protein



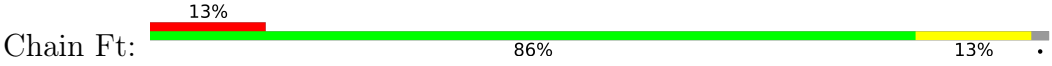


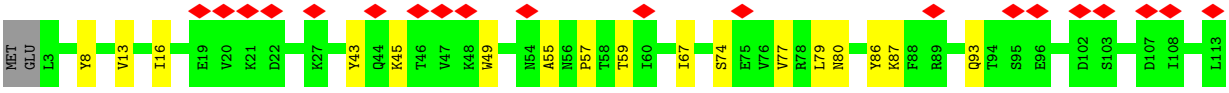
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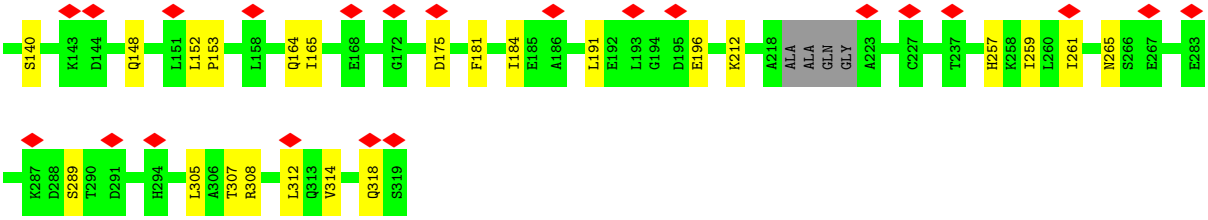




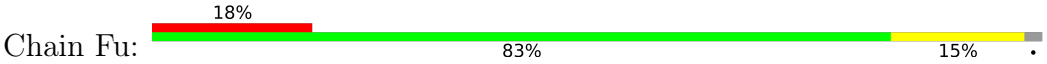
• Molecule 1: Cytosolic protein

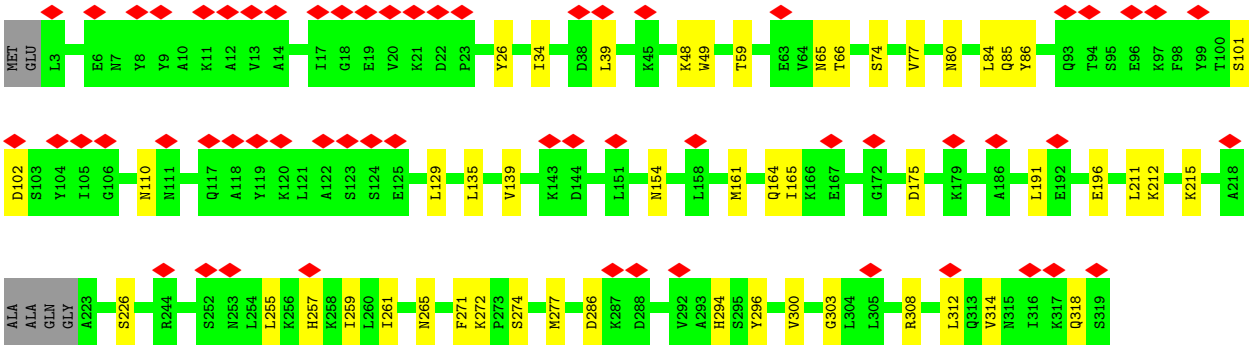




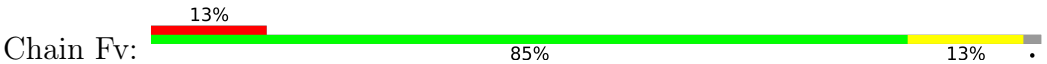


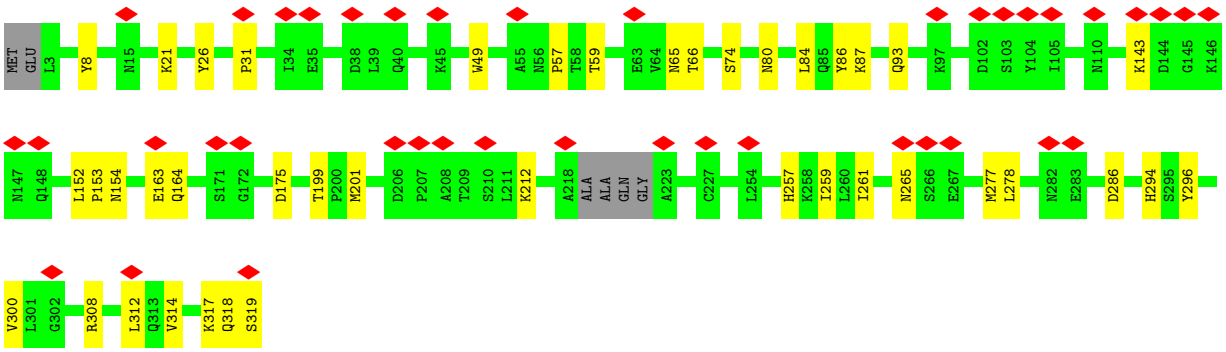
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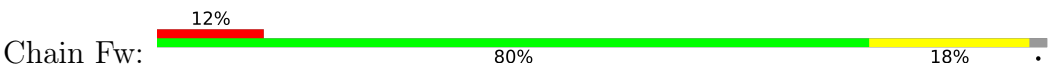


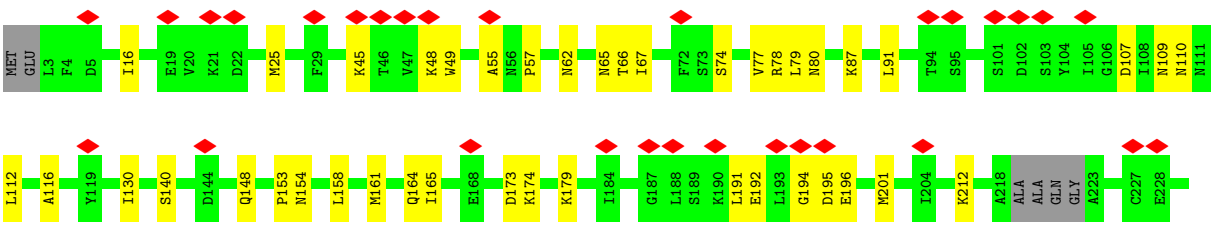
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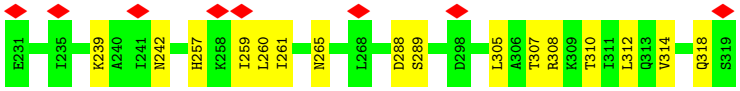




• Molecule 1: Cytosolic protein



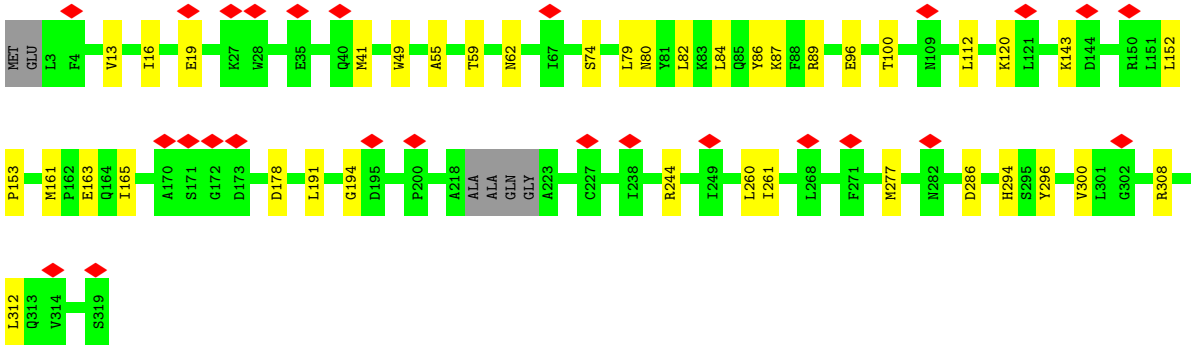




• Molecule 1: Cytosolic protein

Chain Fx:

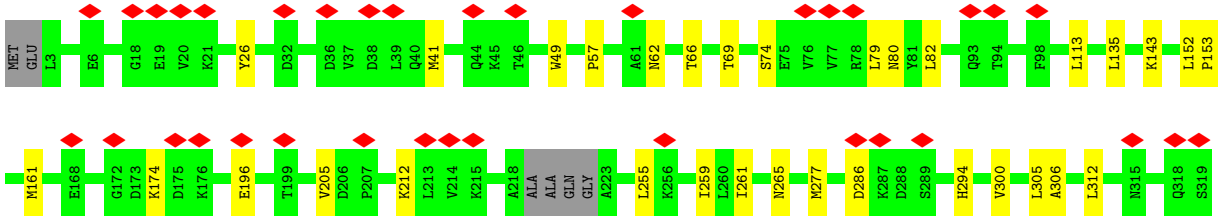




• Molecule 1: Cytosolic protein

Chain Fy:

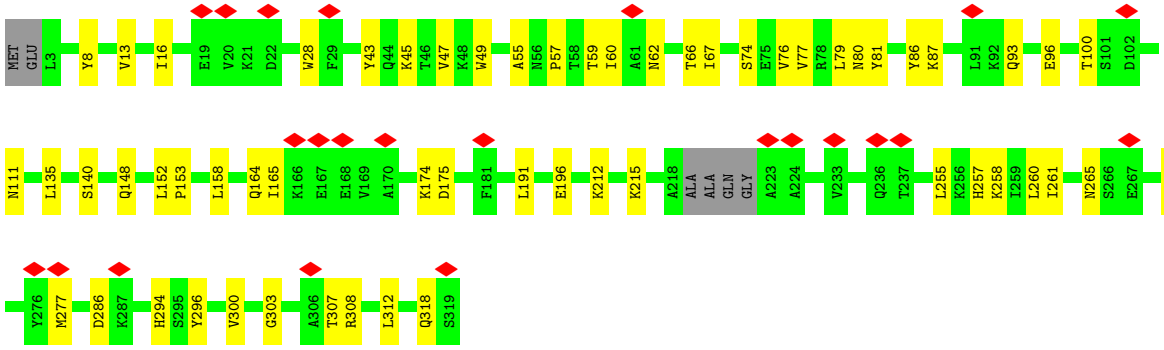




• Molecule 1: Cytosolic protein

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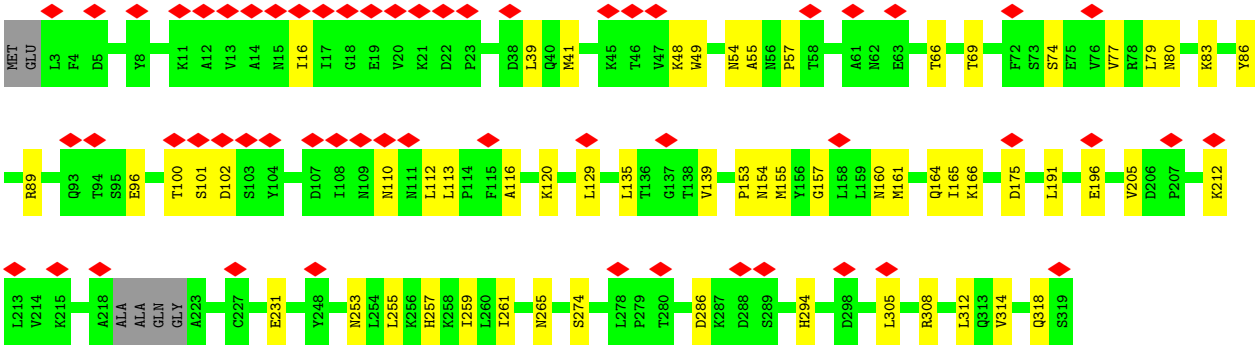




• Molecule 1: Cytosolic protein

Chain GA:

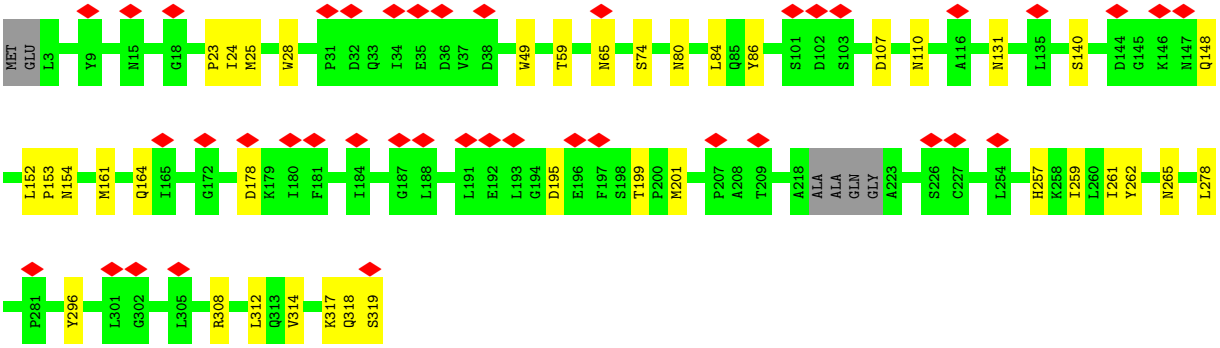




• Molecule 1: Cytosolic protein

Chain GB:

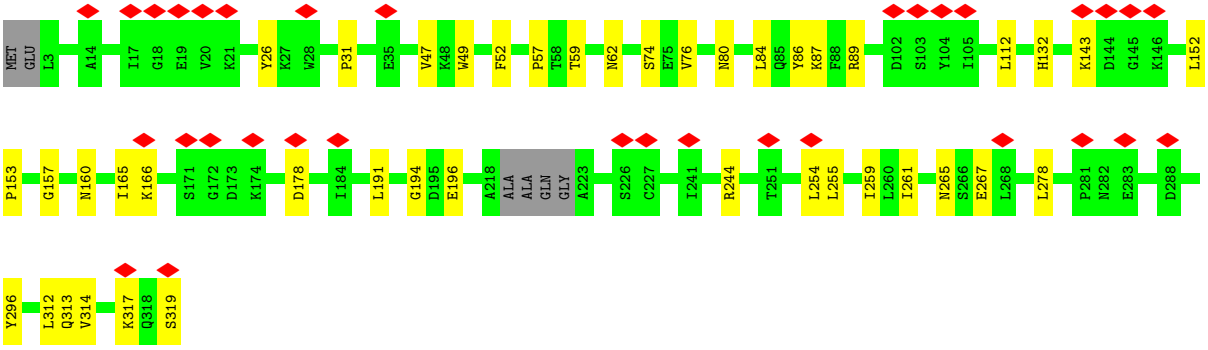




• Molecule 1: Cytosolic protein

Chain GC:



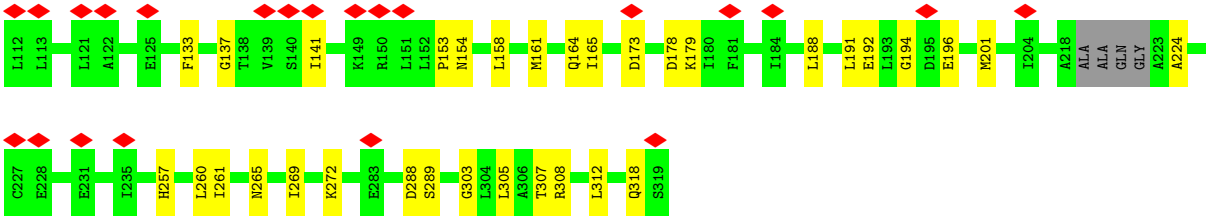


• Molecule 1: Cytosolic protein

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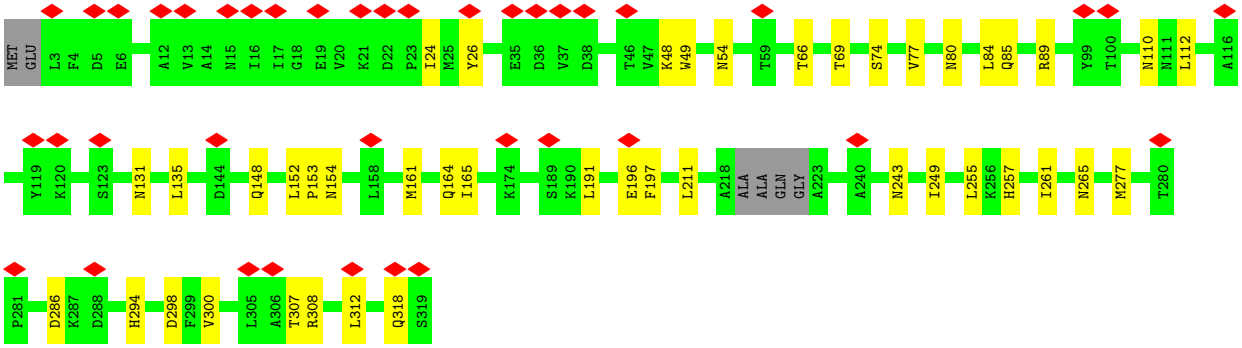




• Molecule 1: Cytosolic protein

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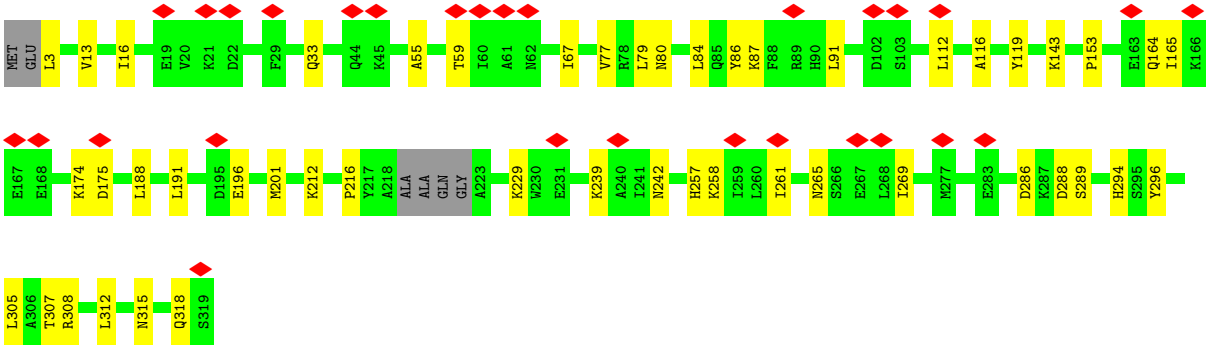




• Molecule 1: Cytosolic protein

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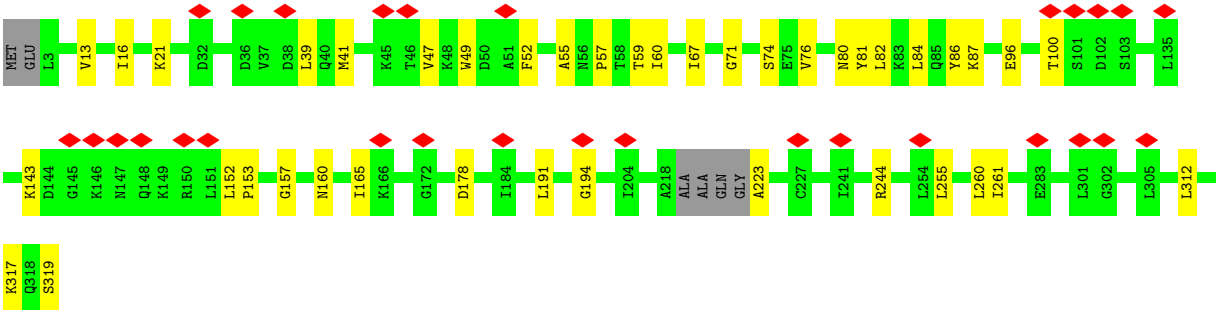




• Molecule 1: Cytosolic protein

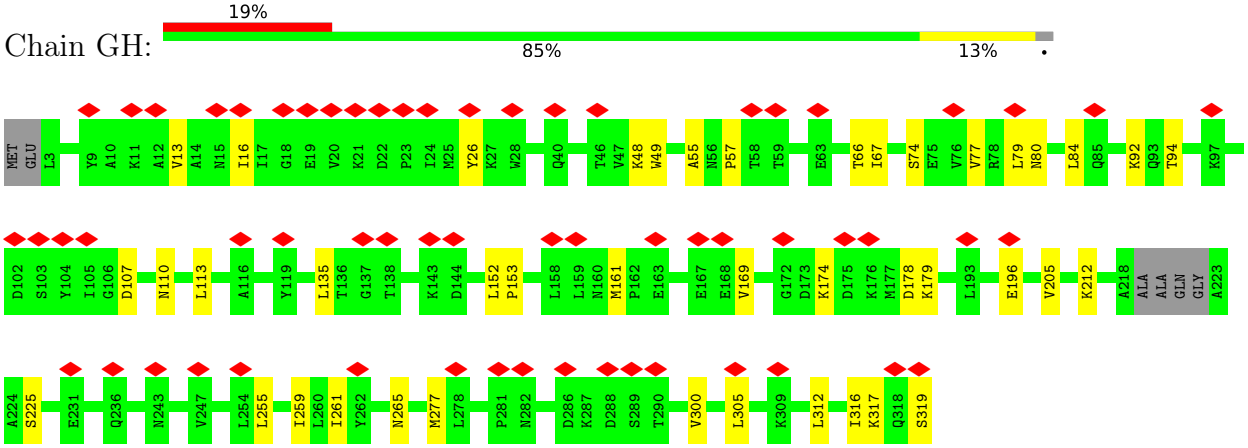
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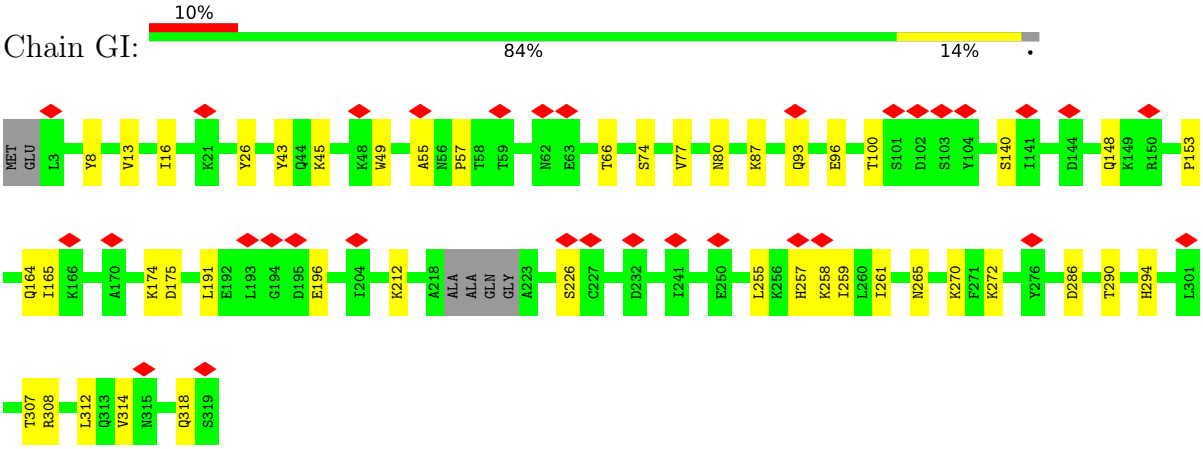
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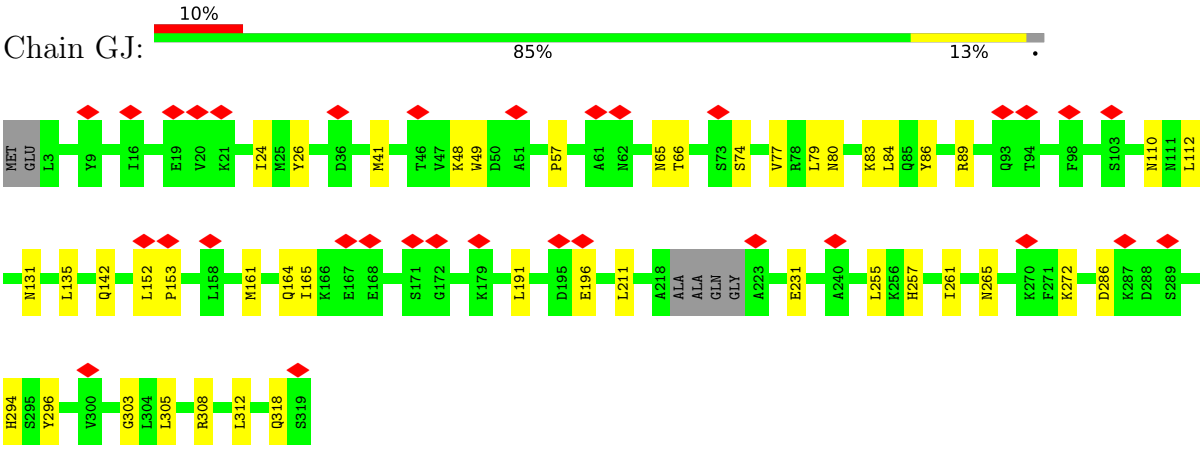
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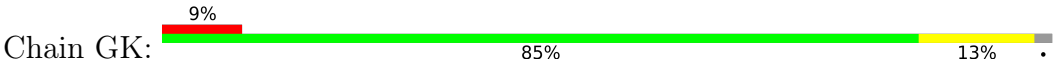
• Molecule 1: Cytosolic protein

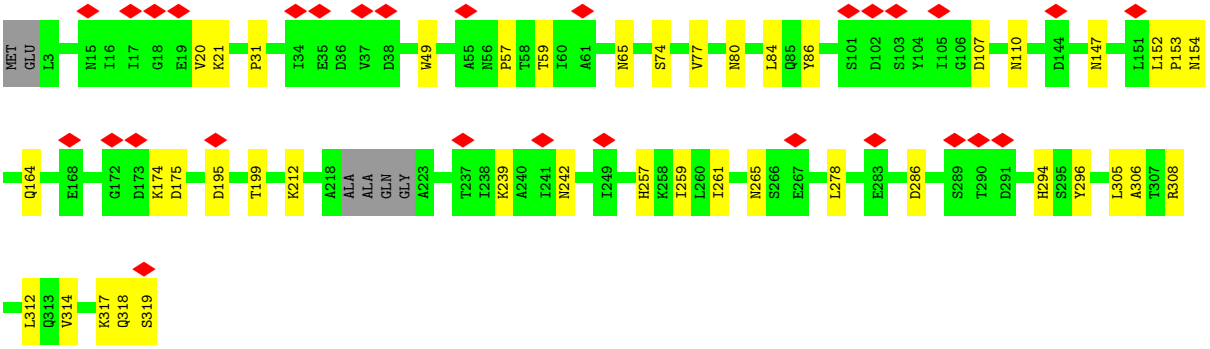
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• Molecule 1: Cytosolic protein

Chain GK:

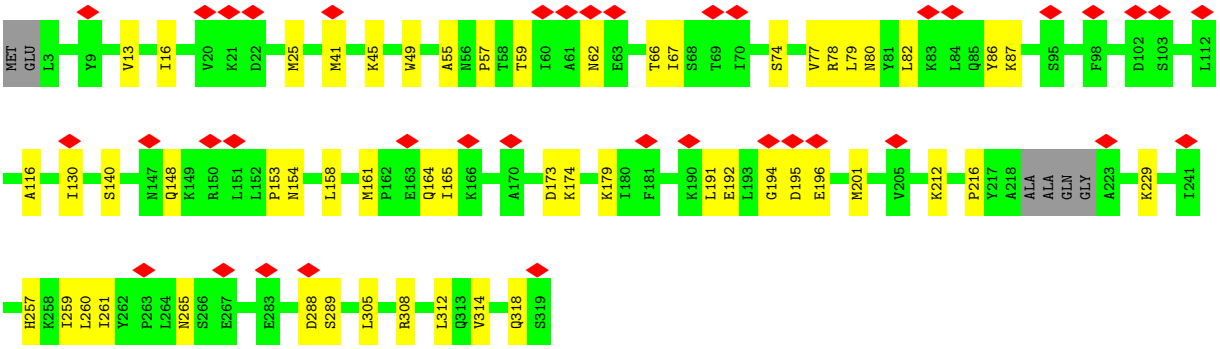




• Molecule 1: Cytosolic protein

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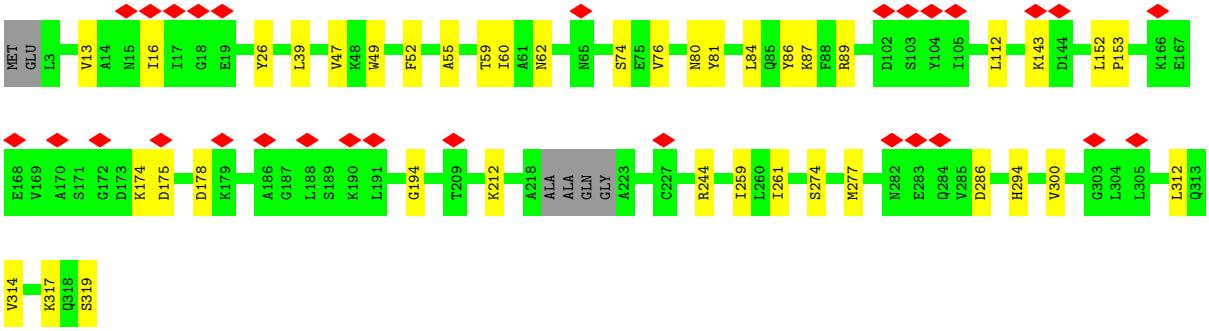




• Molecule 1: Cytosolic protein

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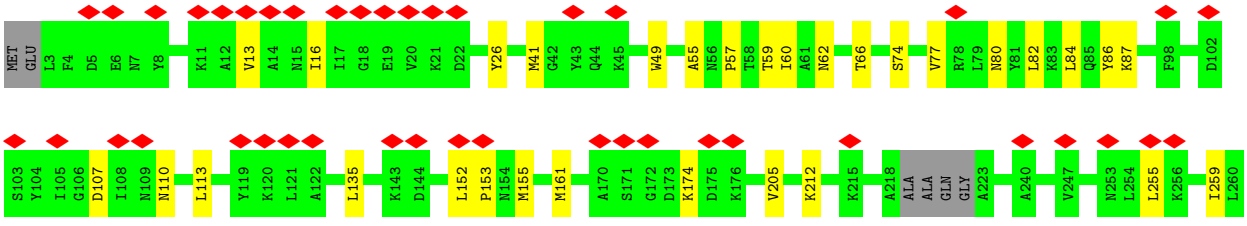


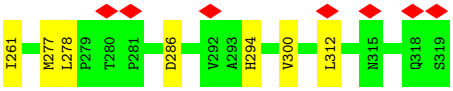


• Molecule 1: Cytosolic protein

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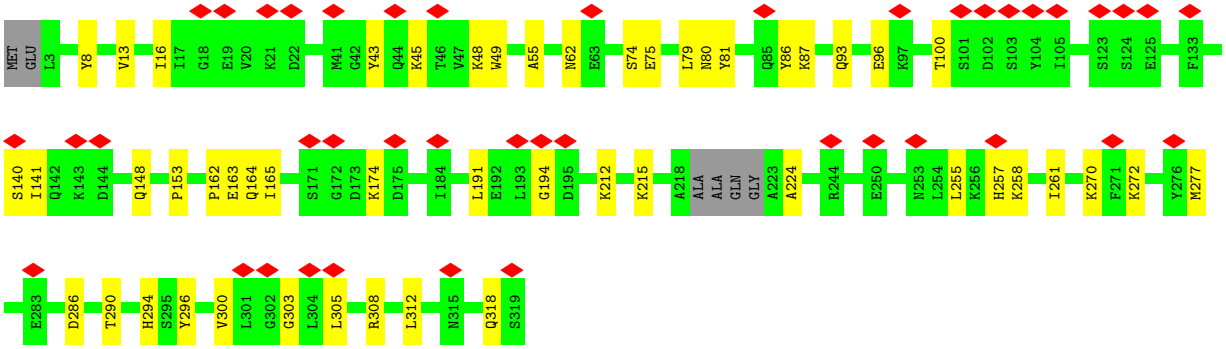




• Molecule 1: Cytosolic protein

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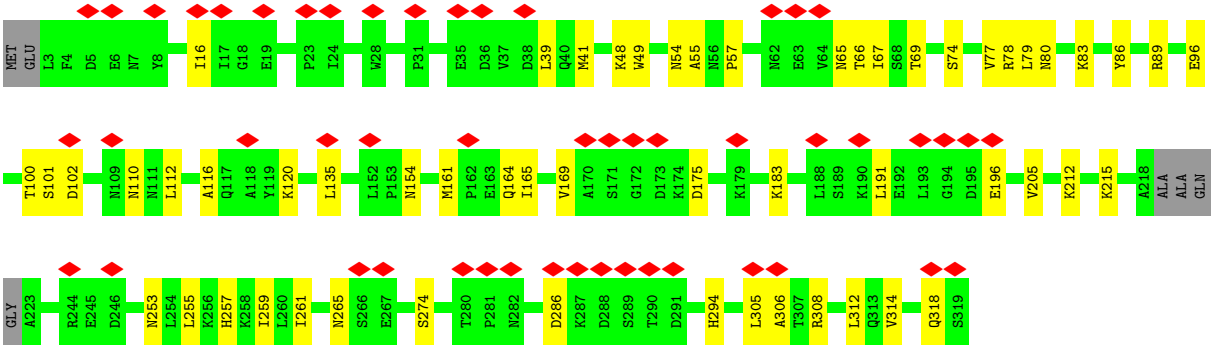




• Molecule 1: Cytosolic protein

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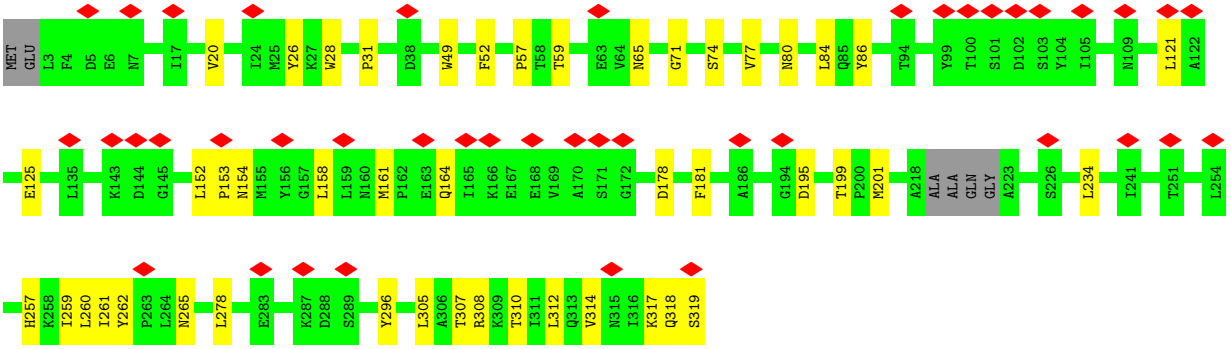




• Molecule 1: Cytosolic protein

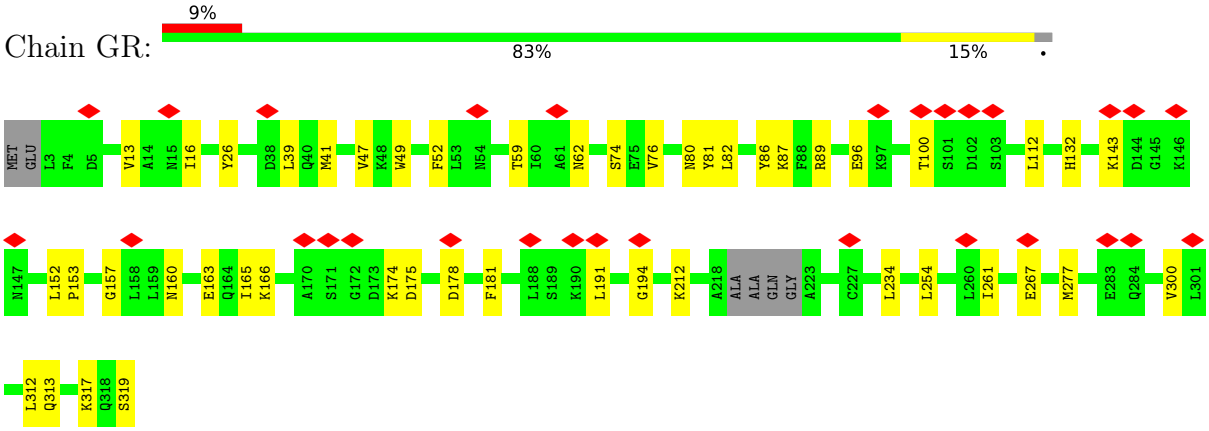
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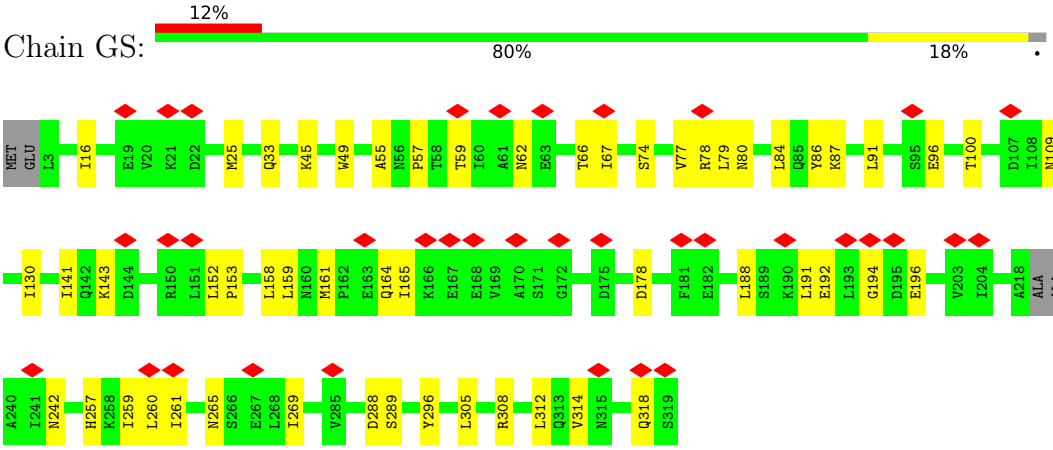
• Molecule 1: Cytosolic protein

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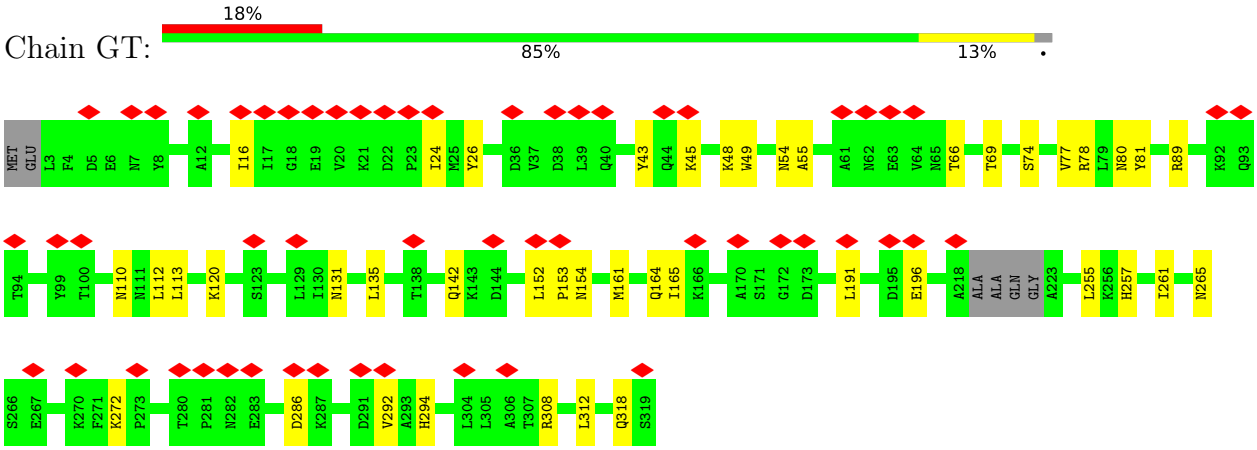
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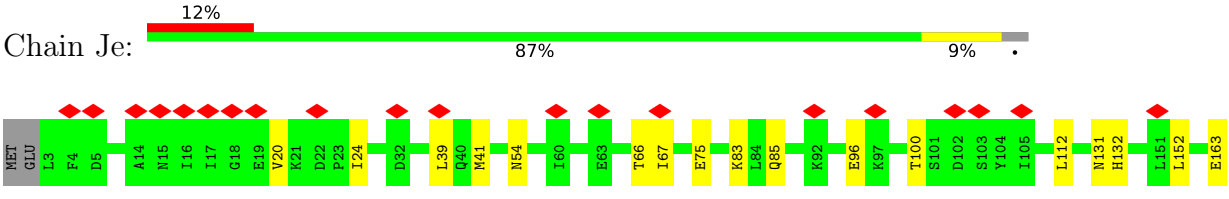
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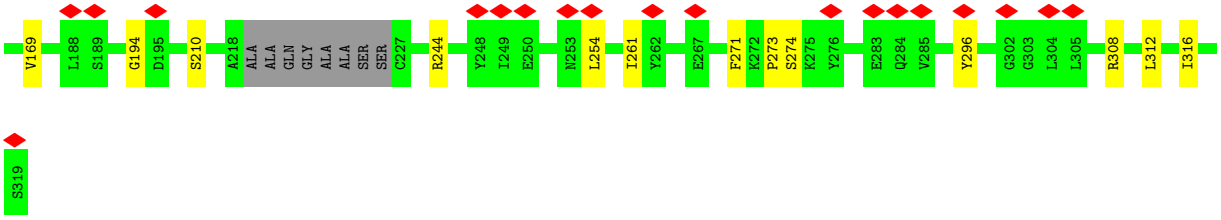
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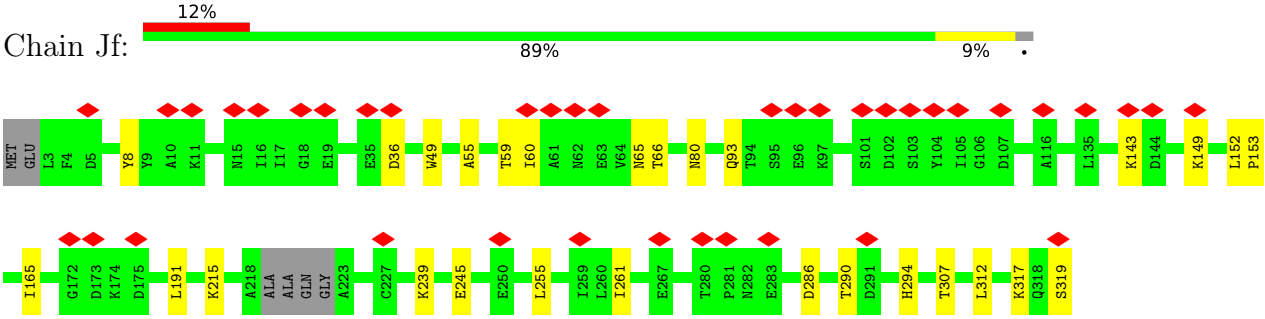
• Molecule 1: Cytosolic protein

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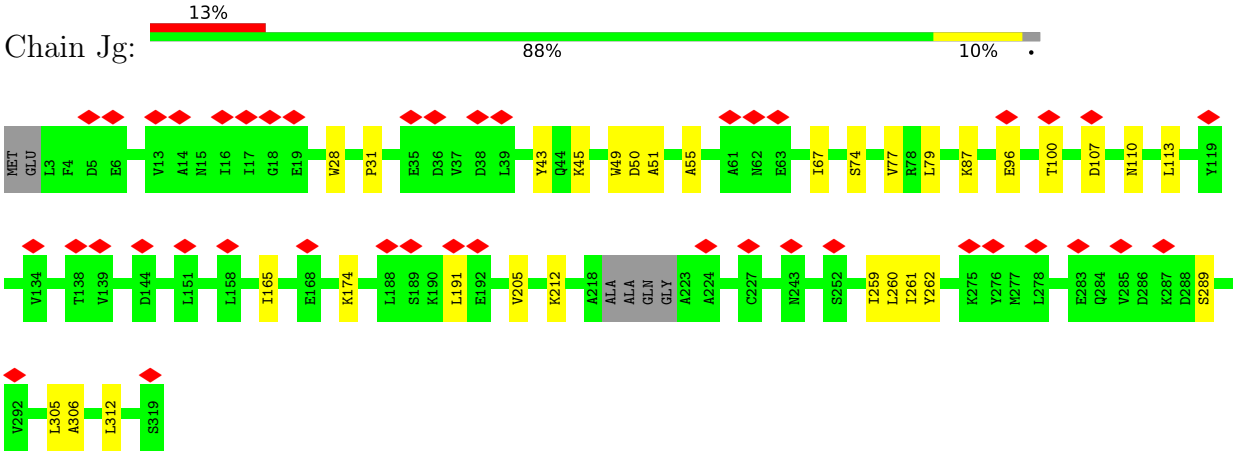




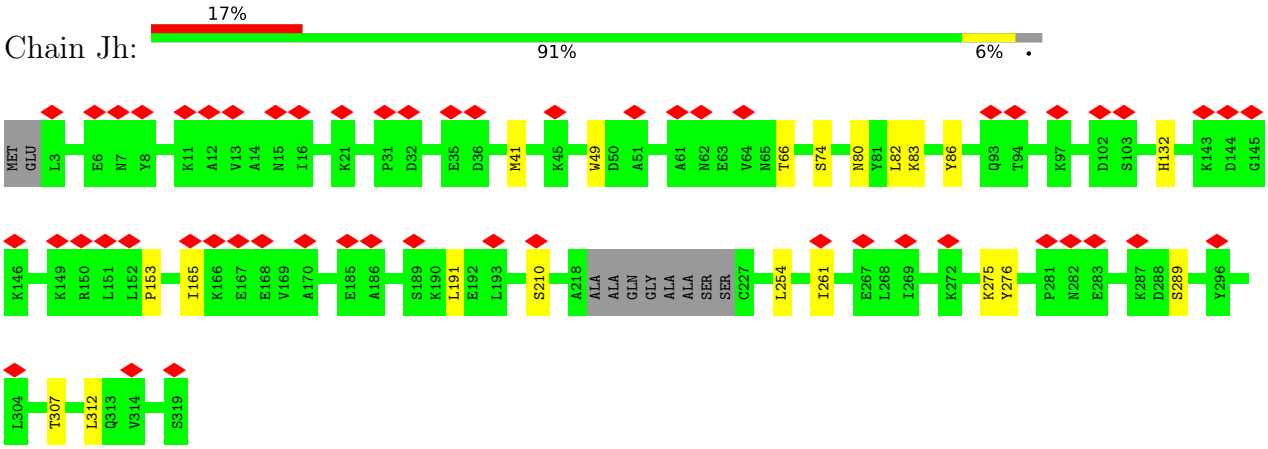
• Molecule 1: Cytosolic protein



• Molecule 1: Cytosolic protein

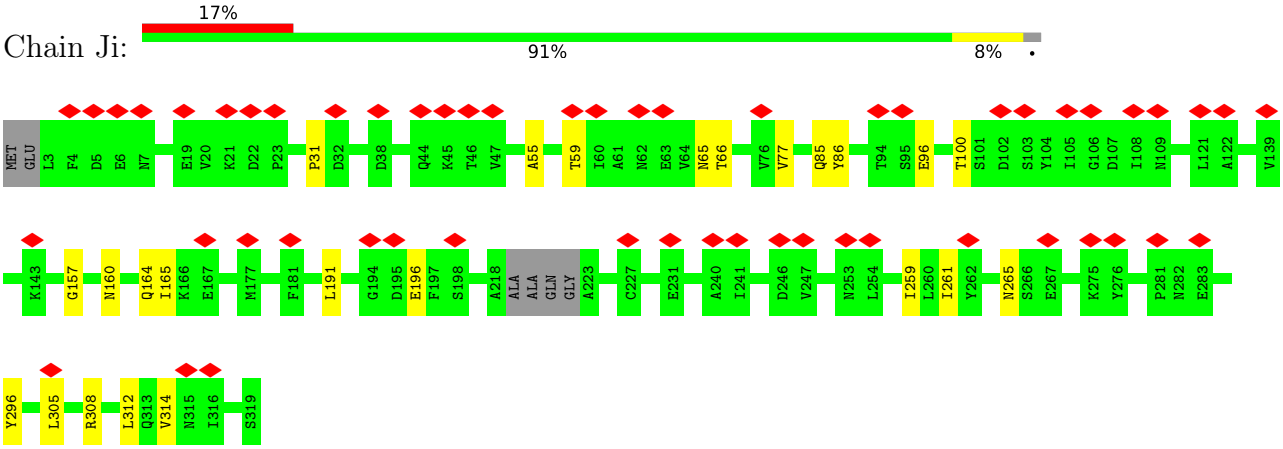


• Molecule 1: Cytosolic protein



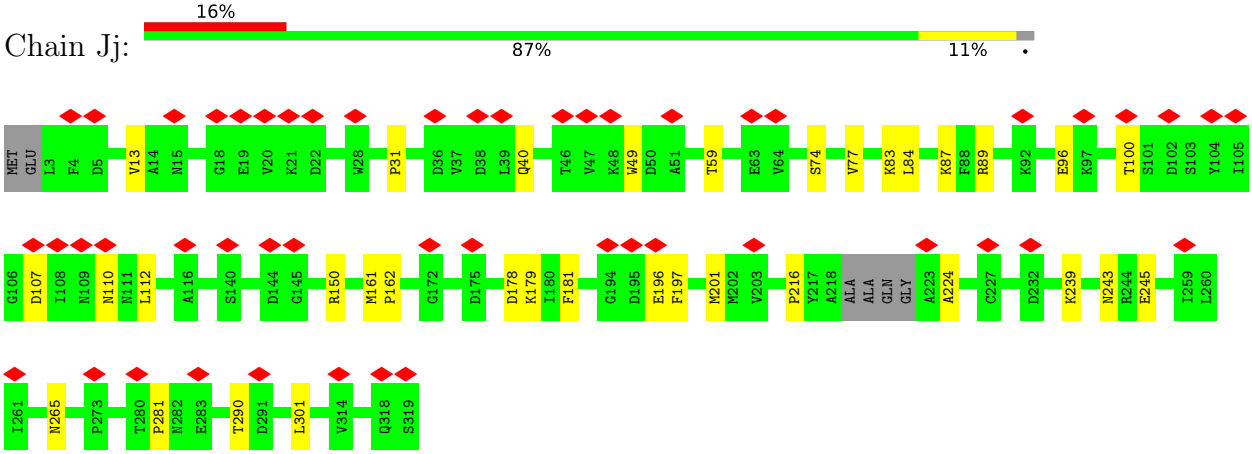
• Molecule 1: Cytosolic protein

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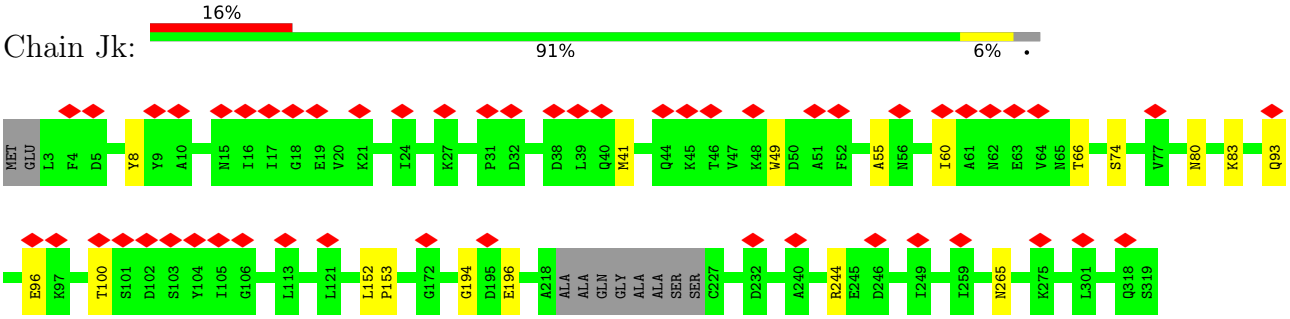
• Molecule 1: Cytosolic protein

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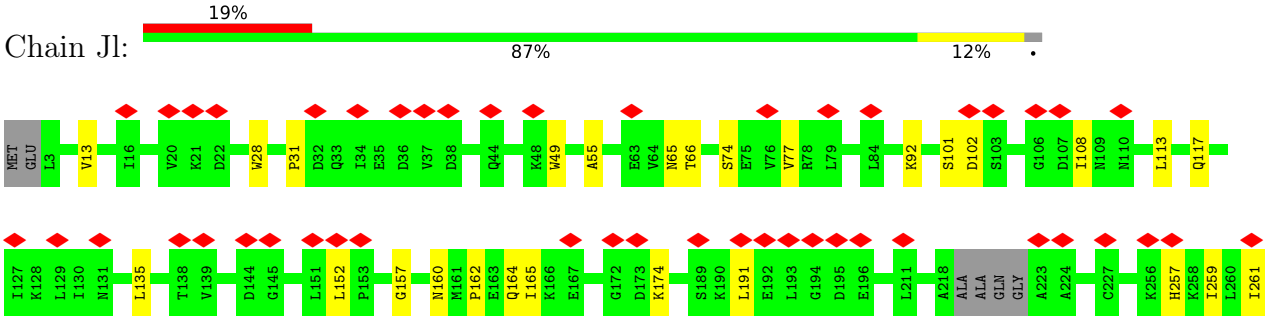
• Molecule 1: Cytosolic protein

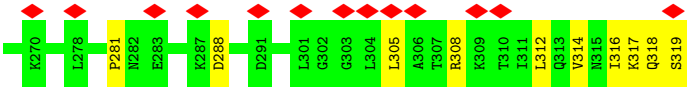
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• Molecule 1: Cytosolic protein

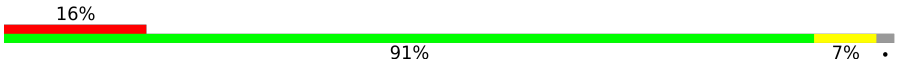
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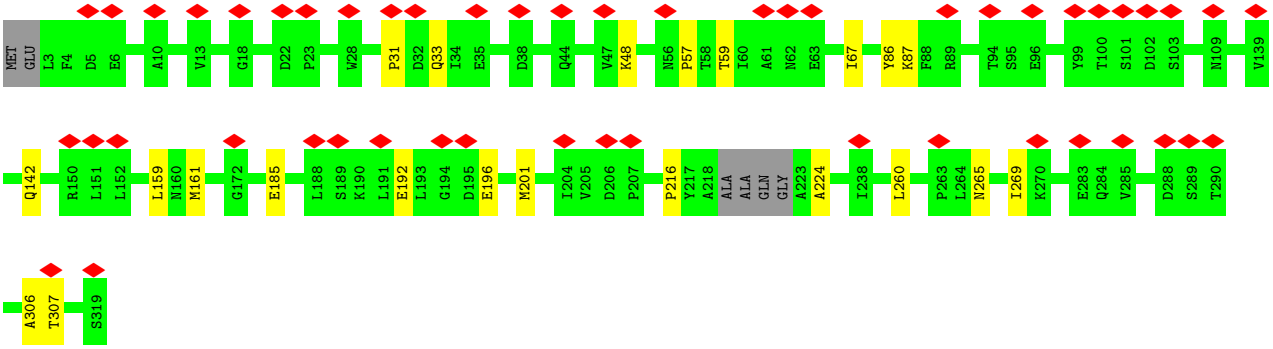




• Molecule 1: Cytosolic protein

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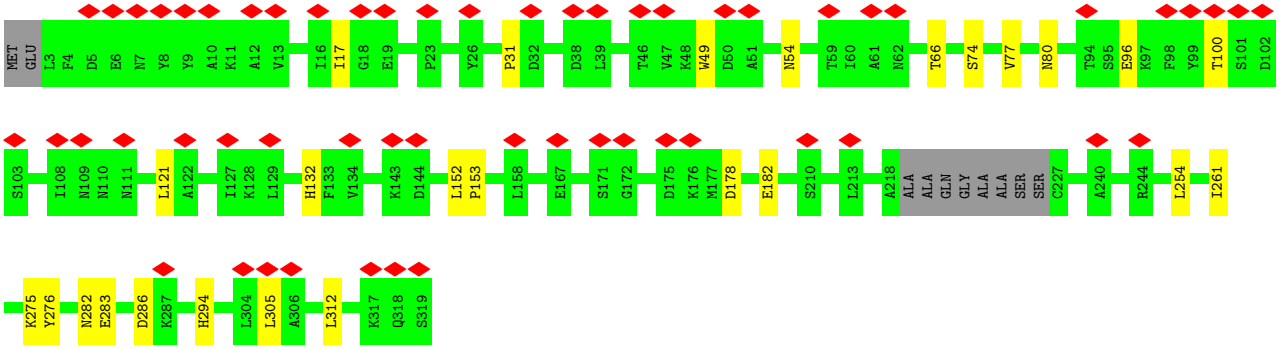




• Molecule 1: Cytosolic protein

Chain Jn:

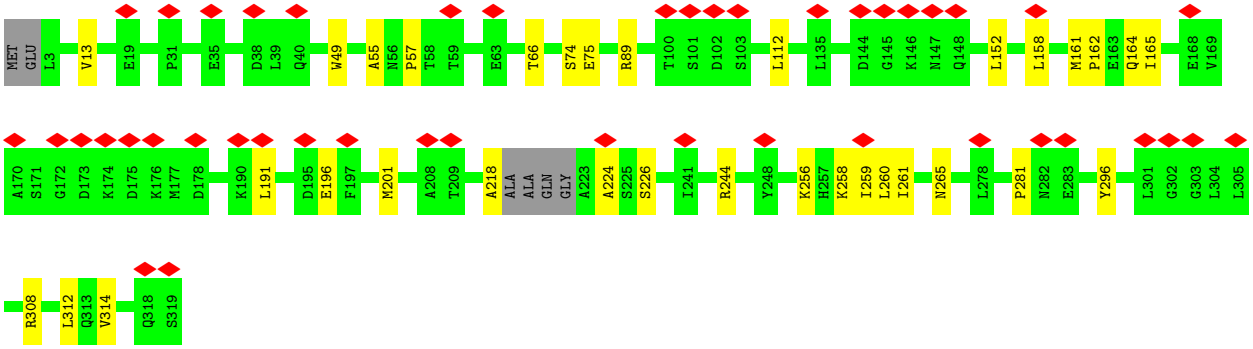




• Molecule 1: Cytosolic protein

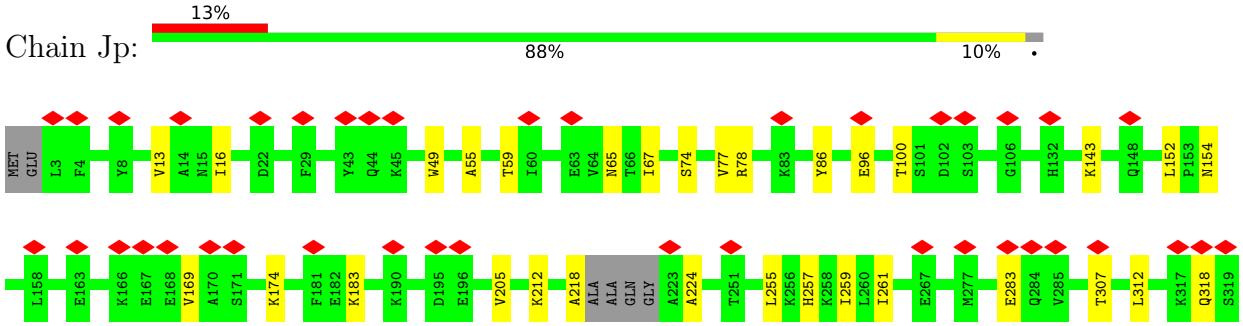
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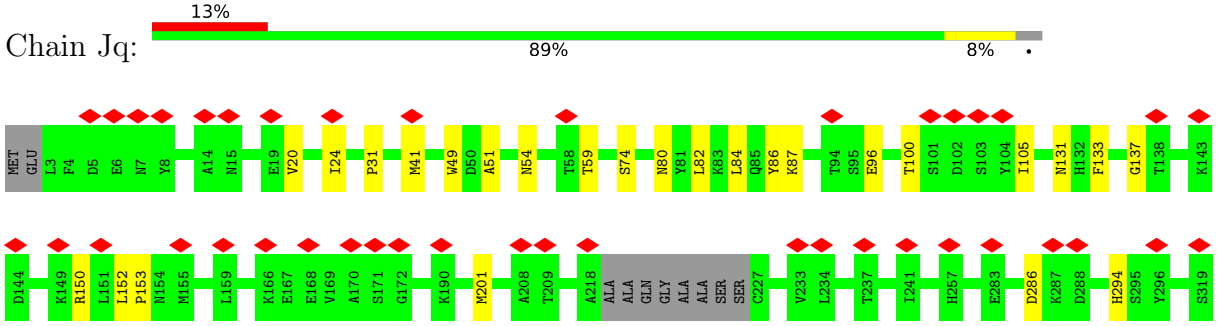
• Molecule 1: Cytosolic protein

Chain Jp:



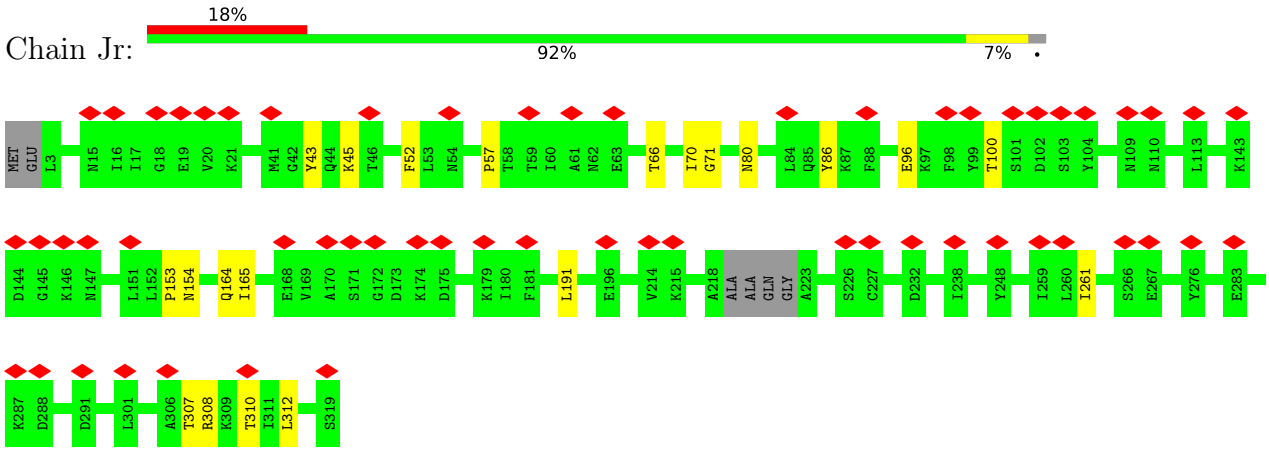
• Molecule 1: Cytosolic protein

Chain Jq:



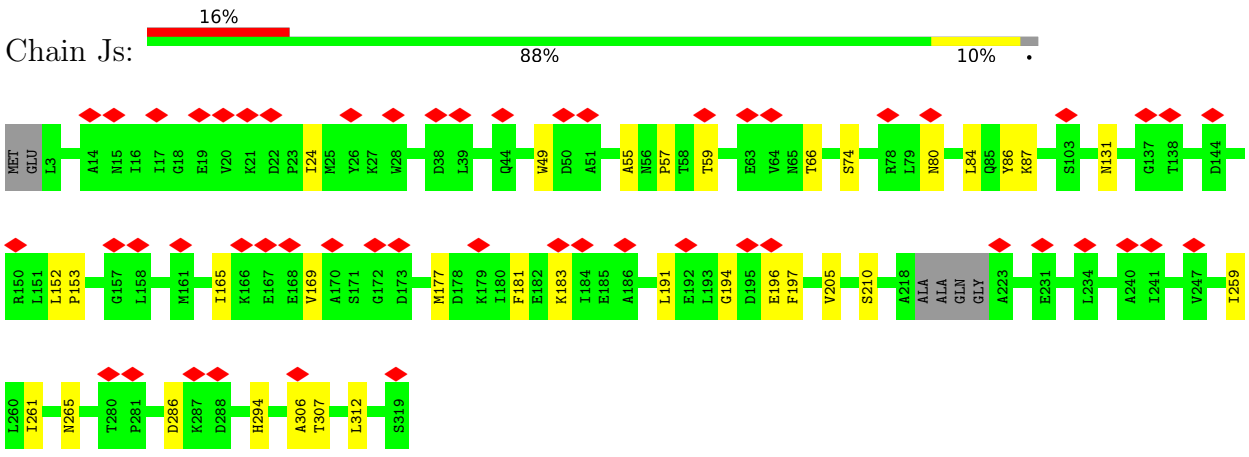
• Molecule 1: Cytosolic protein

Chain Jr:



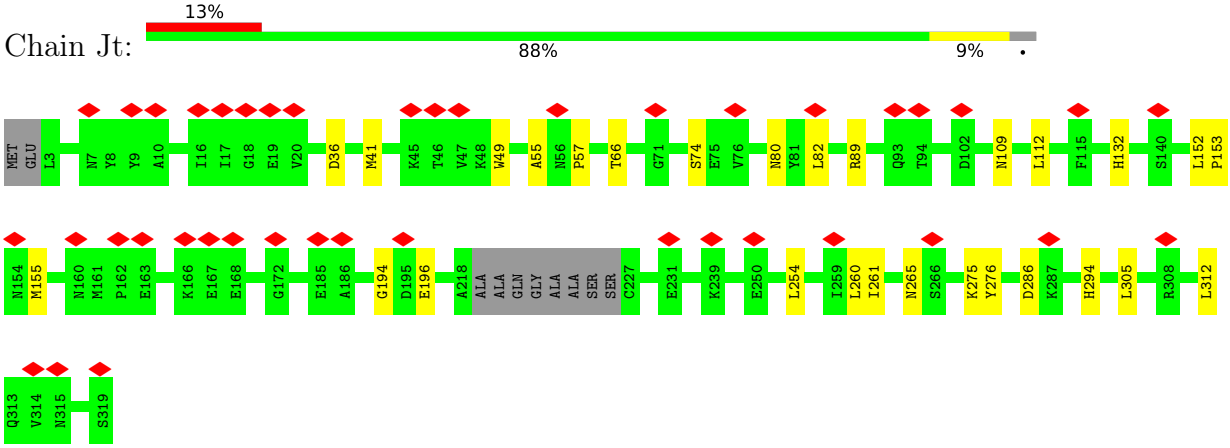
• Molecule 1: Cytosolic protein

Chain Js:



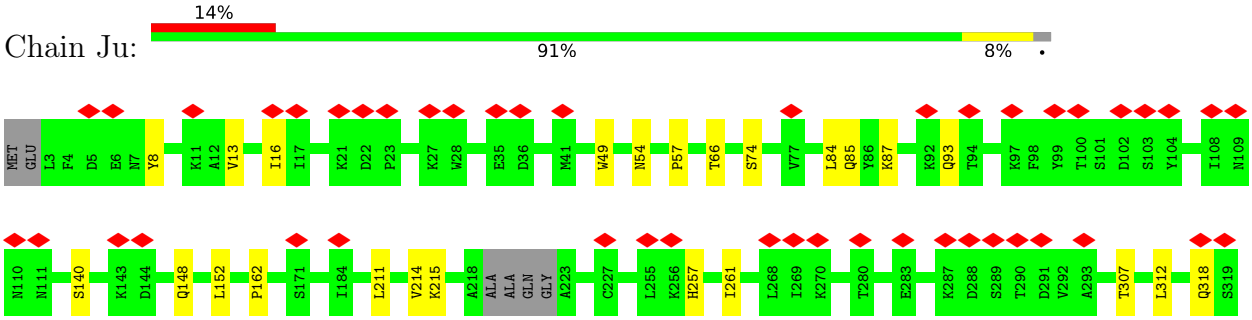
• Molecule 1: Cytosolic protein

Chain Jt:



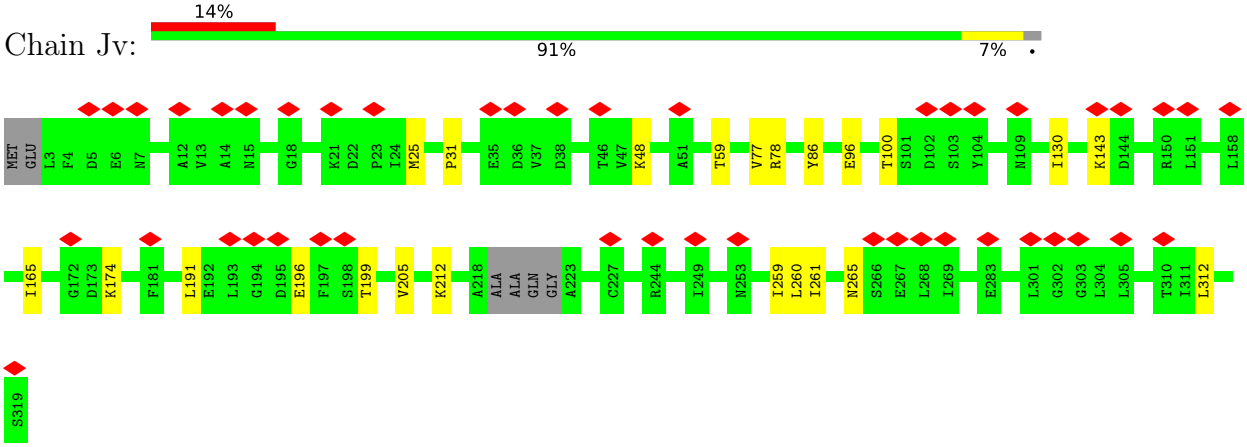
• Molecule 1: Cytosolic protein

Chain Ju:



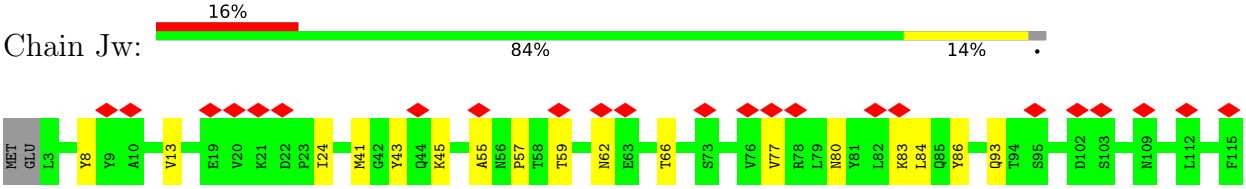
• Molecule 1: Cytosolic protein

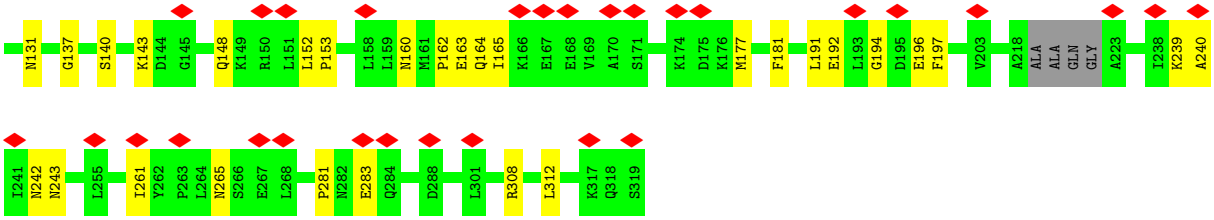
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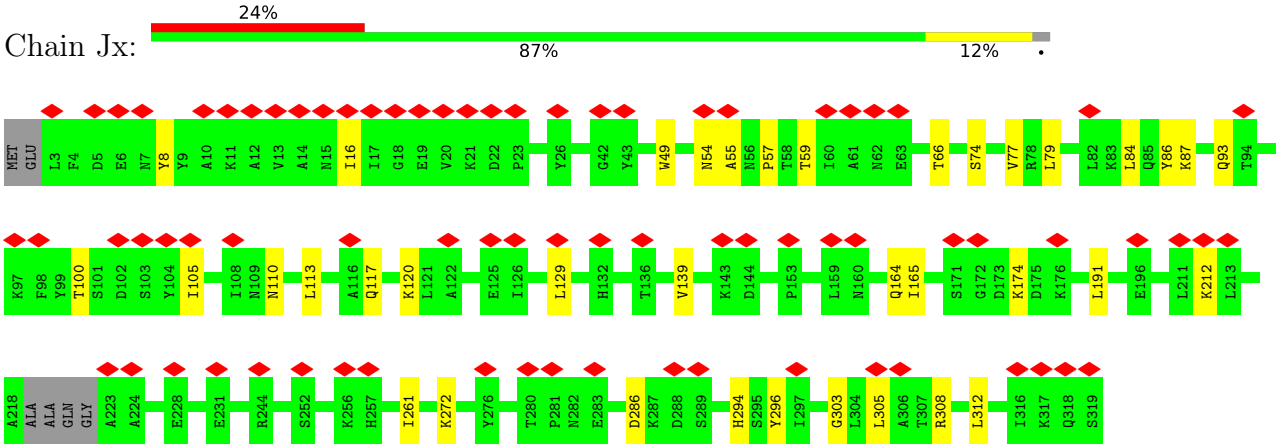
• Molecule 1: Cytosolic protein

Chain Jw:

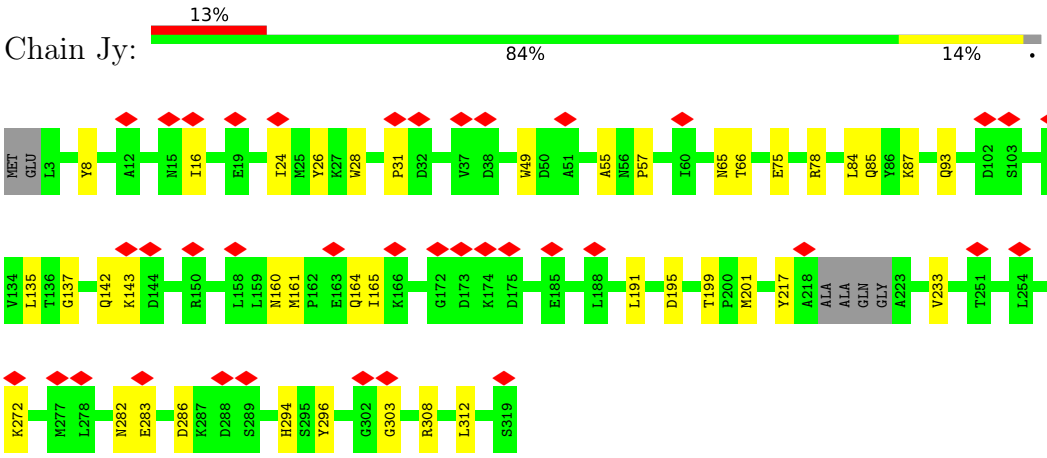




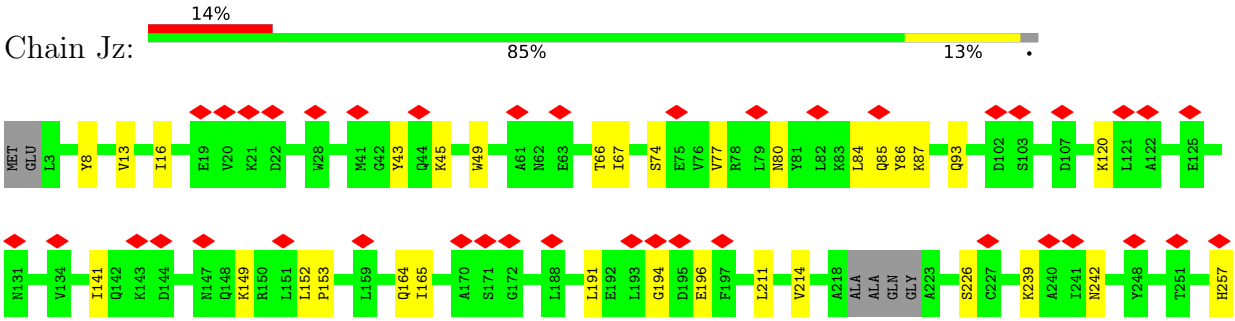
• Molecule 1: Cytosolic protein

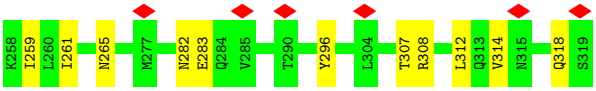


• Molecule 1: Cytosolic protein



• Molecule 1: Cytosolic protein

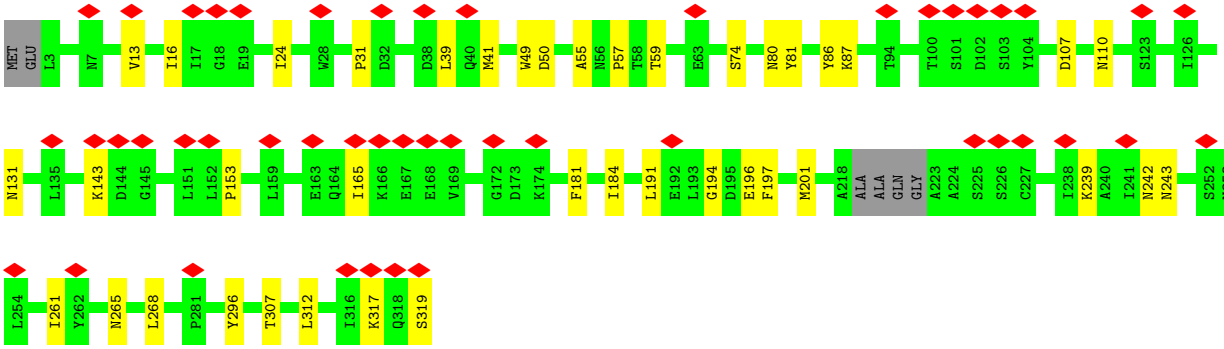




• Molecule 1: Cytosolic protein

Chain KA:

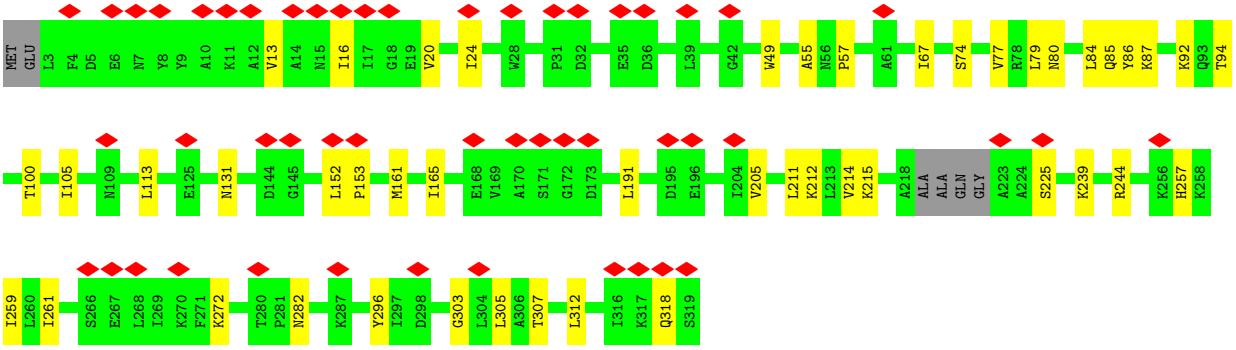




• Molecule 1: Cytosolic protein

Chain KB:

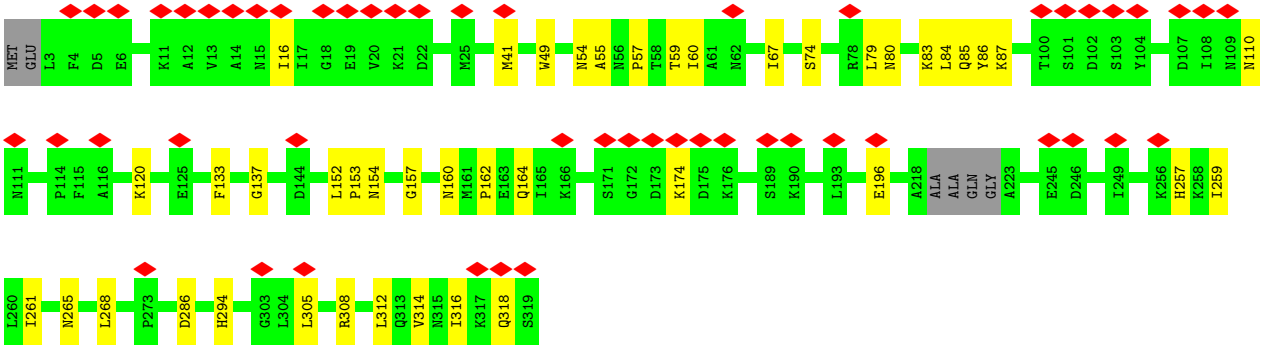




• Molecule 1: Cytosolic protein

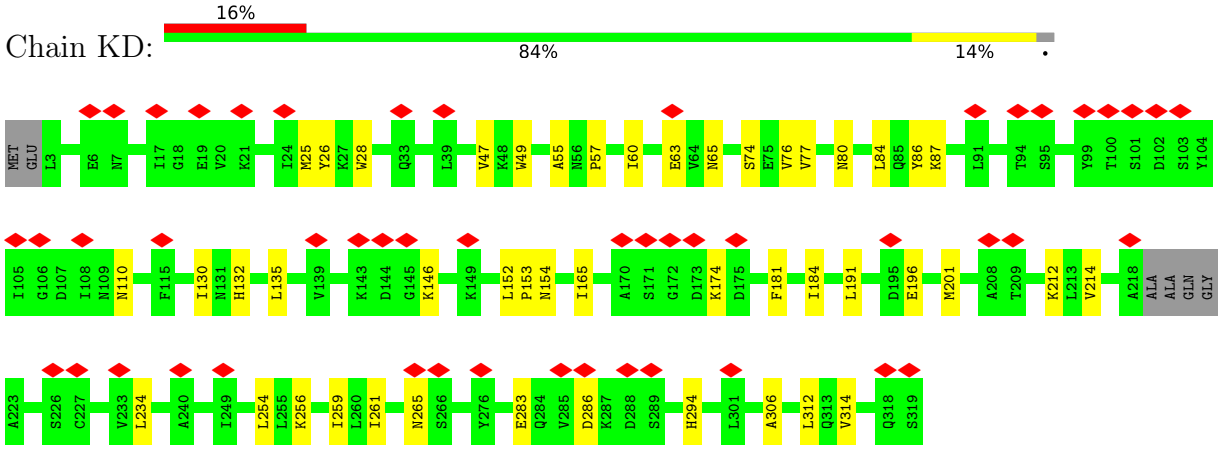
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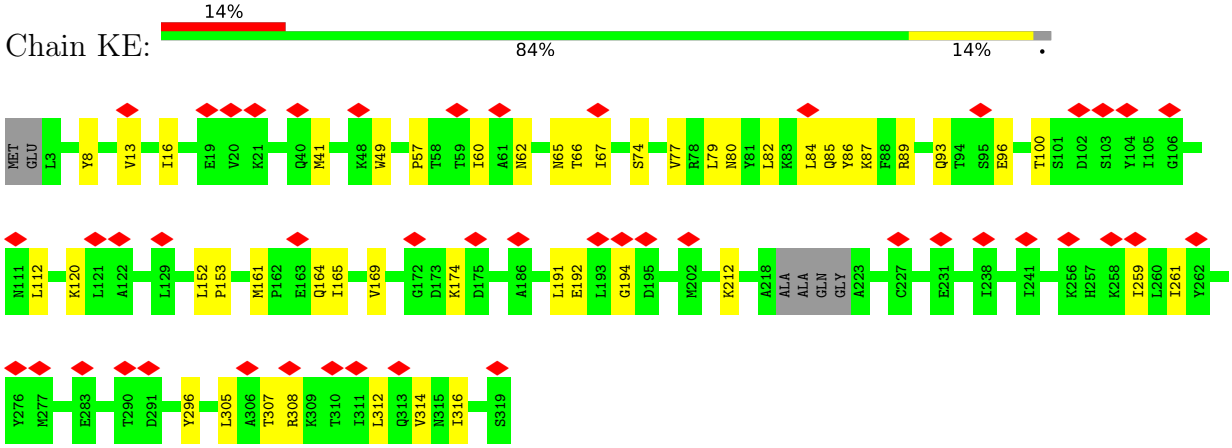
• Molecule 1: Cytosolic protein

Chain KD:



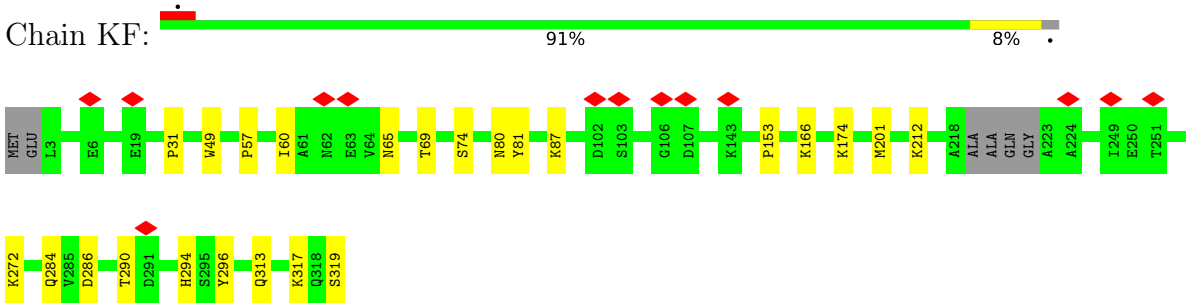
• Molecule 1: Cytosolic protein

Chain KE:



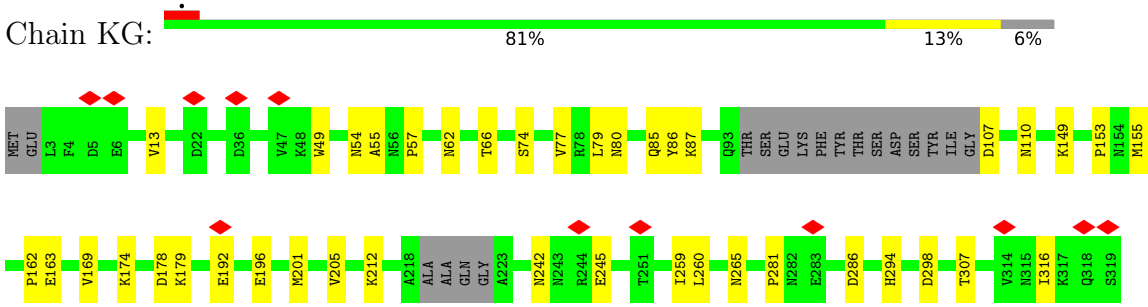
• Molecule 1: Cytosolic protein

Chain KF:



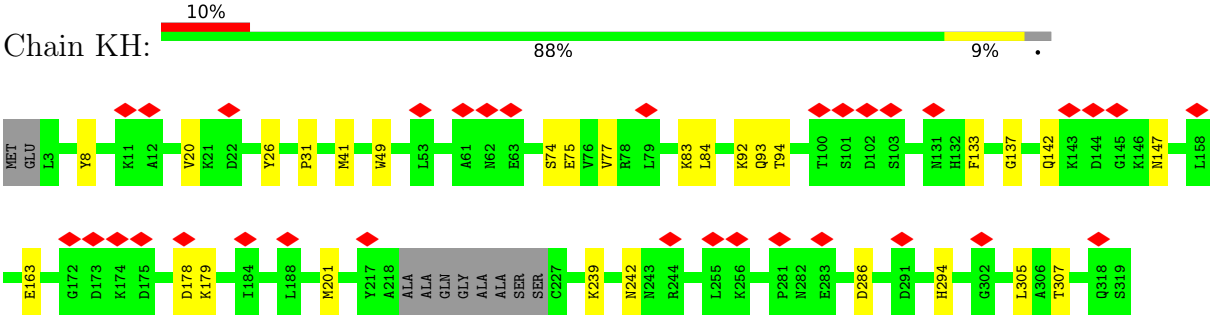
• Molecule 1: Cytosolic protein

Chain KG:



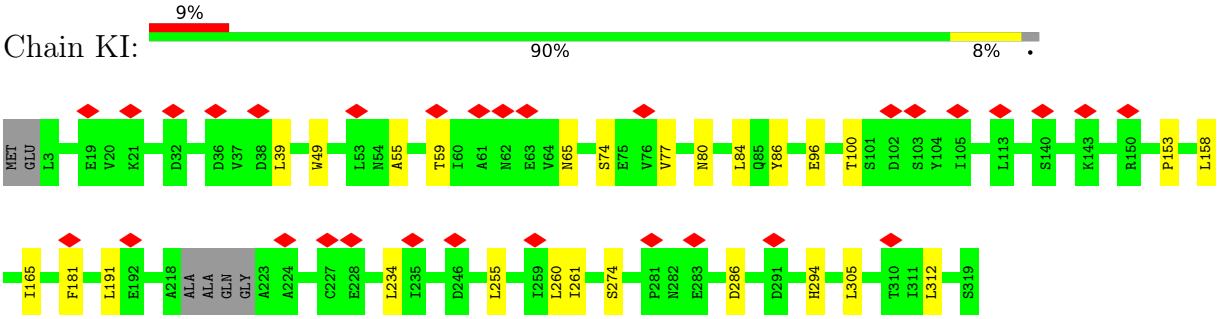
• Molecule 1: Cytosolic protein

Chain KH:



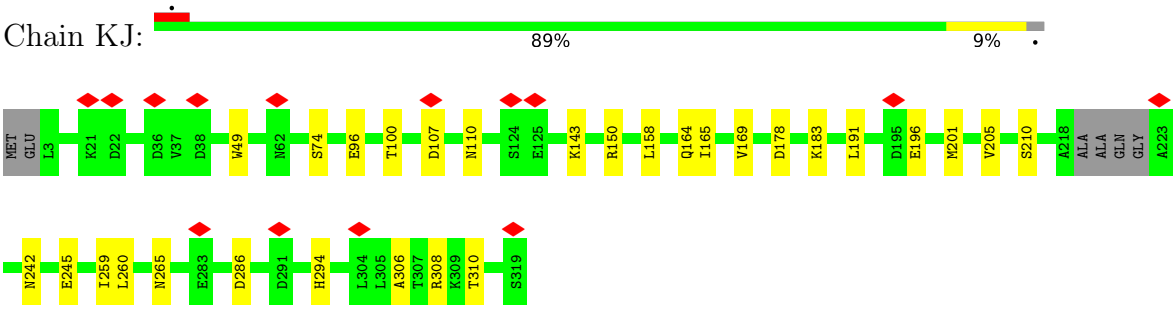
• Molecule 1: Cytosolic protein

Chain KI:



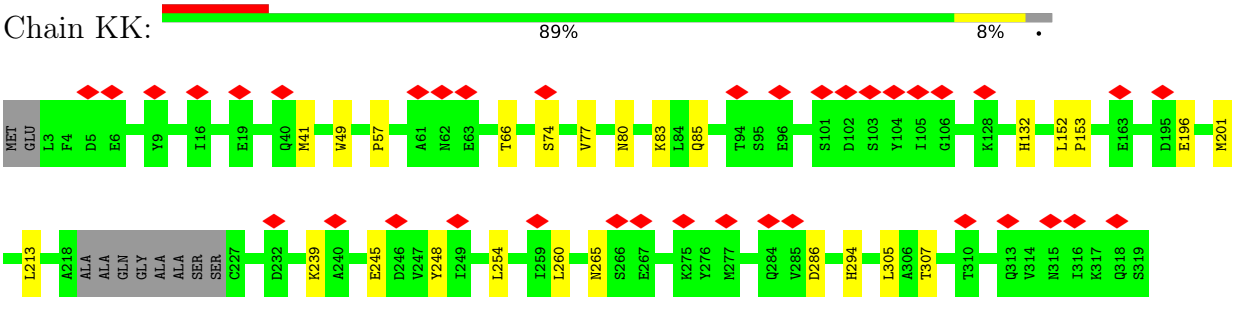
• Molecule 1: Cytosolic protein

Chain KJ:



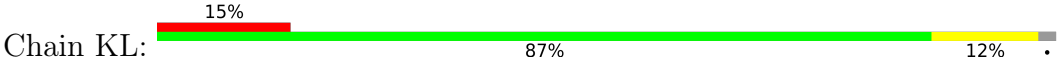
• Molecule 1: Cytosolic protein

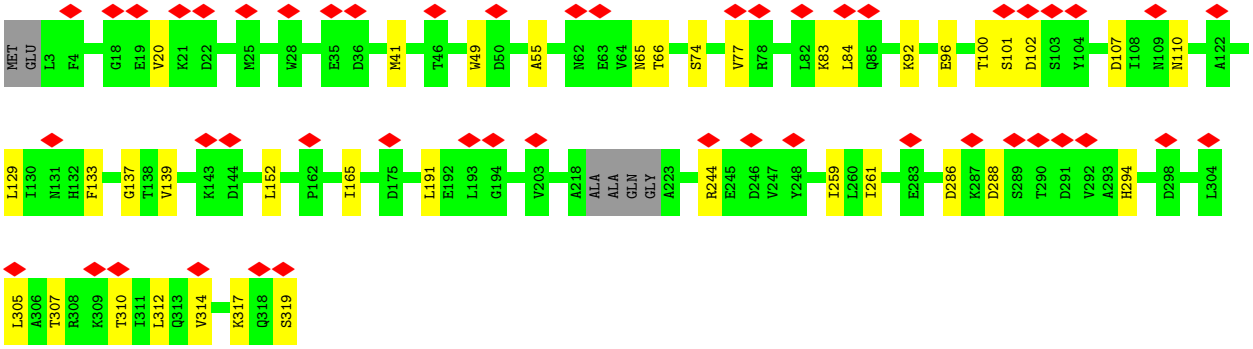
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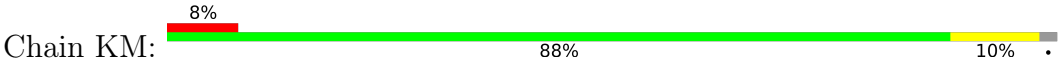
• Molecule 1: Cytosolic protein

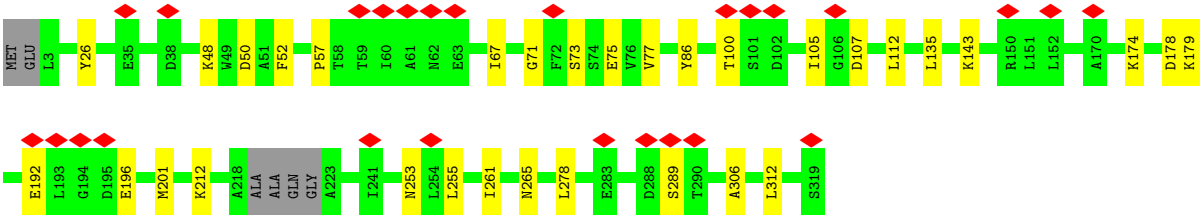
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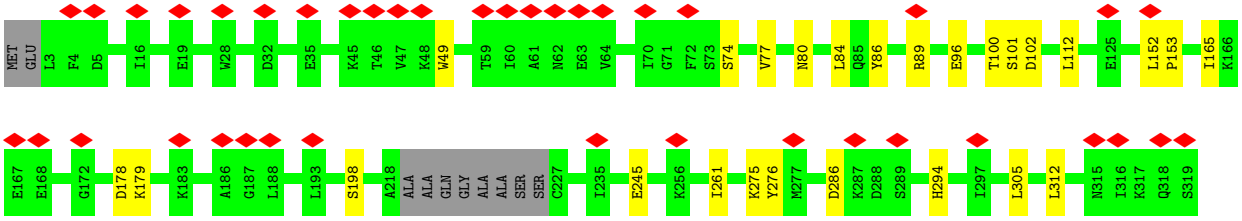
• Molecule 1: Cytosolic protein



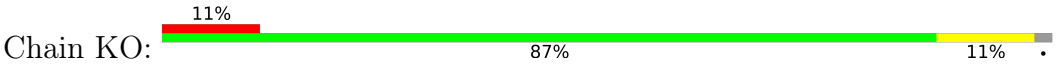


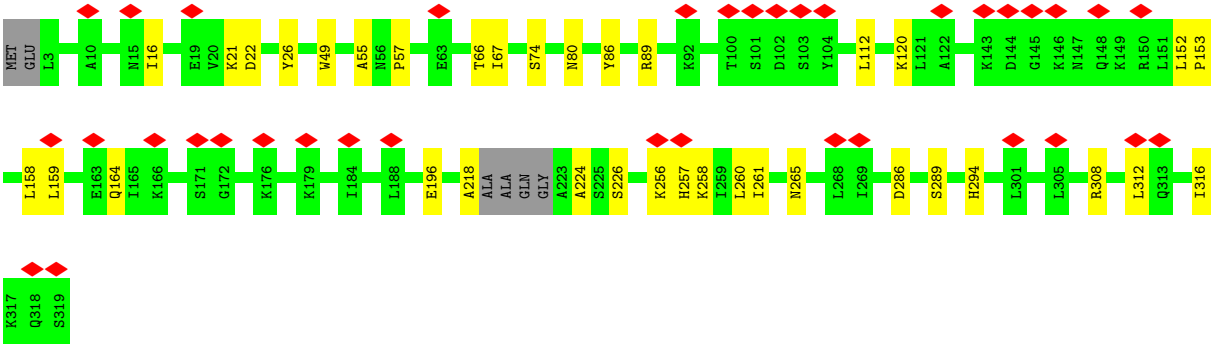
• Molecule 1: Cytosolic protein





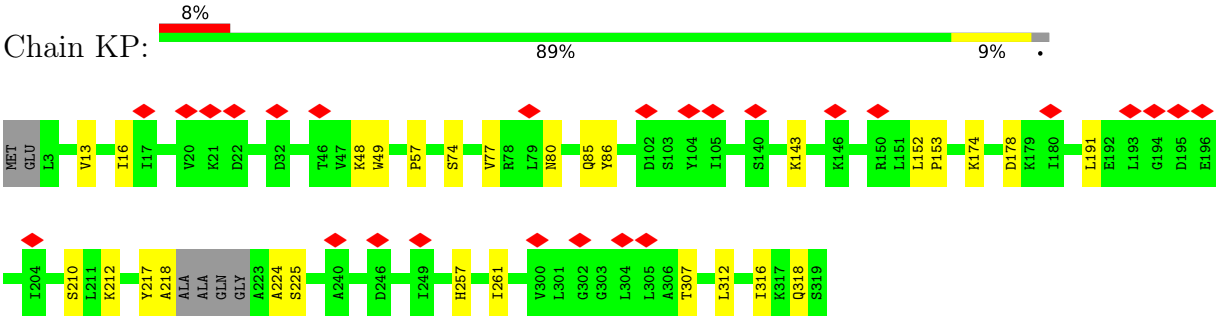
• Molecule 1: Cytosolic protein





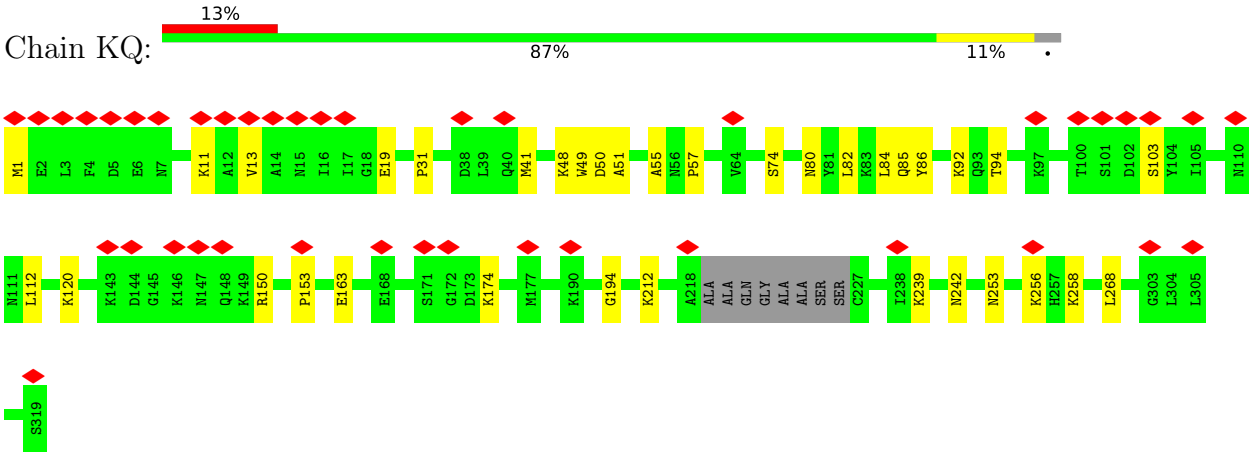
• Molecule 1: Cytosolic protein

Chain KP:



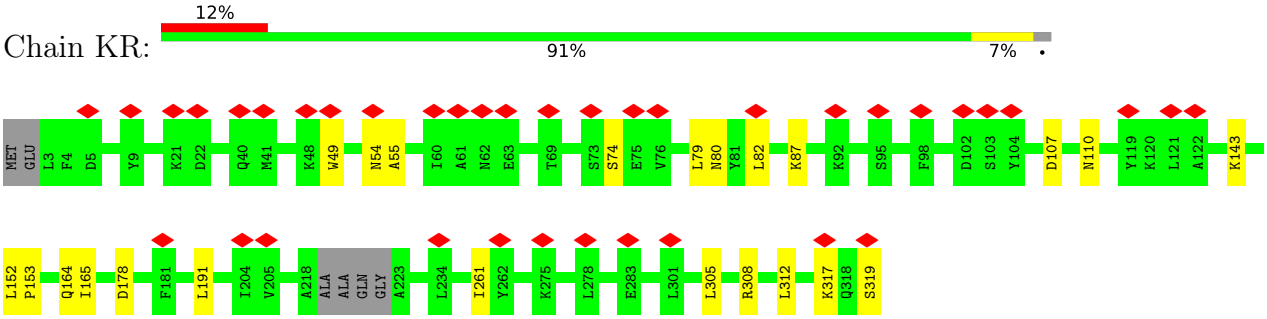
• Molecule 1: Cytosolic protein

Chain KQ:



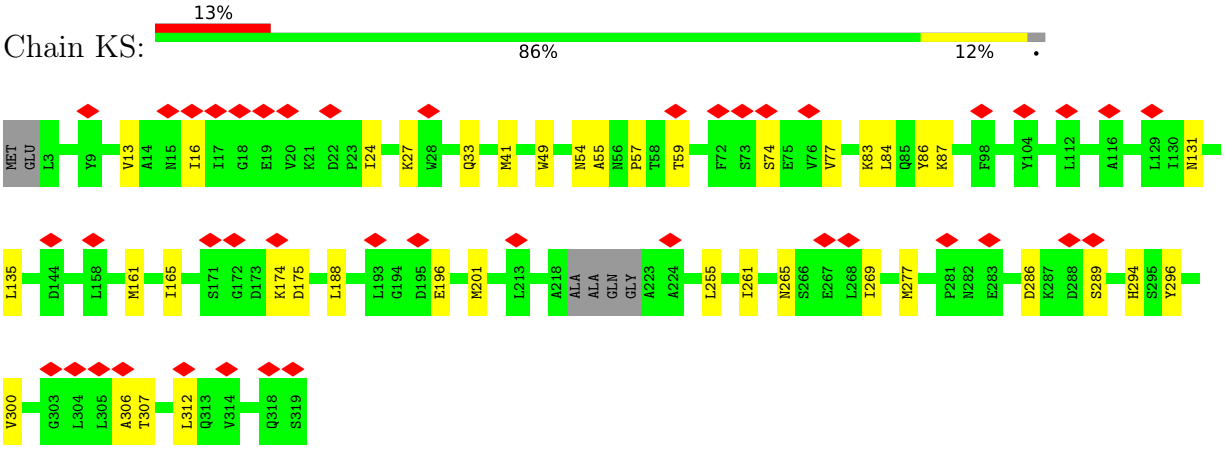
• Molecule 1: Cytosolic protein

Chain KR:



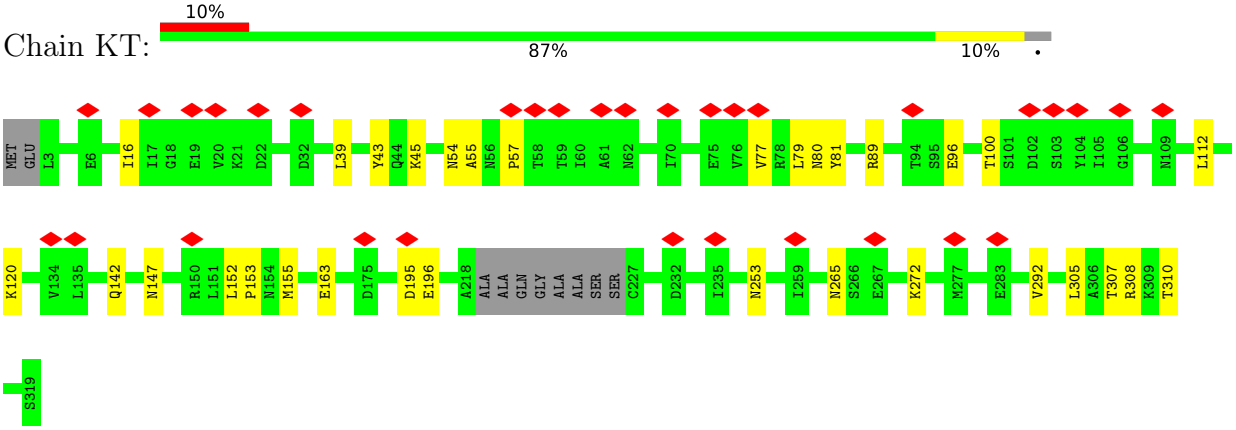
• Molecule 1: Cytosolic protein

Chain KS:



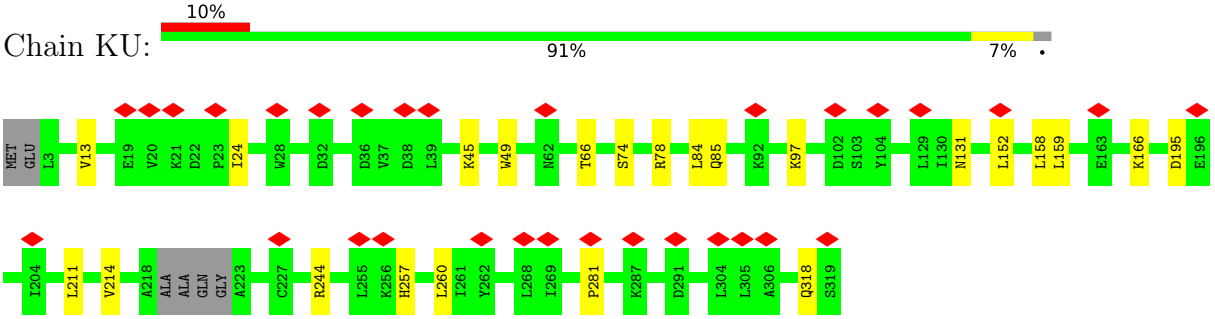
• Molecule 1: Cytosolic protein

Chain KT:



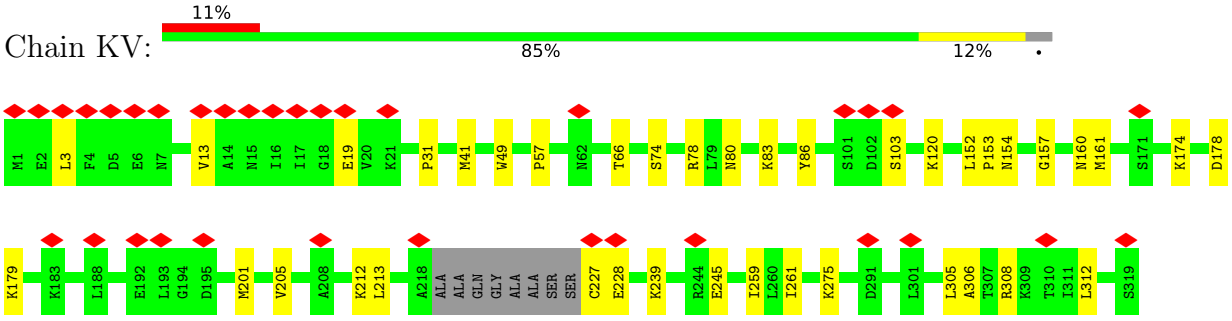
• Molecule 1: Cytosolic protein

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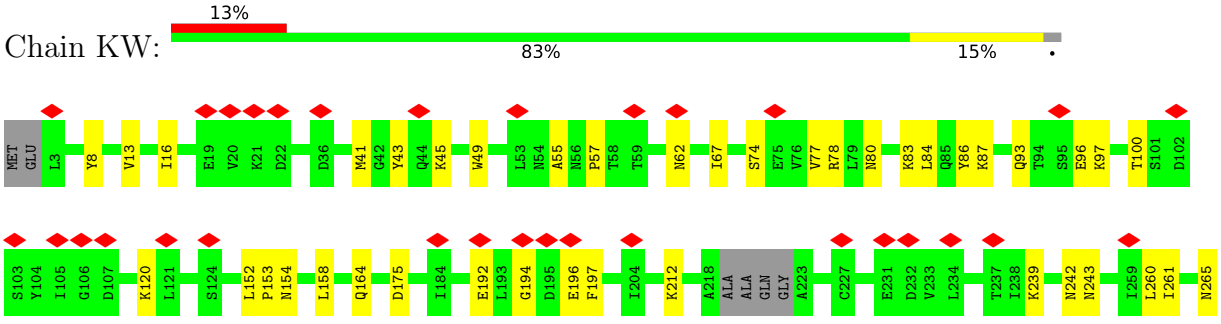
• Molecule 1: Cytosolic protein

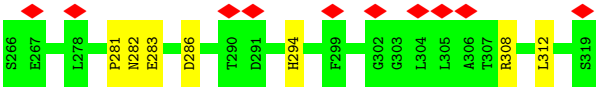
Chain KV:



• Molecule 1: Cytosolic protein

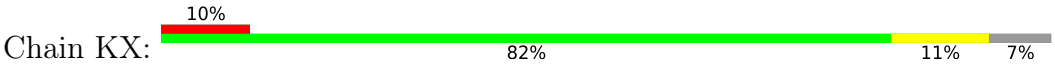
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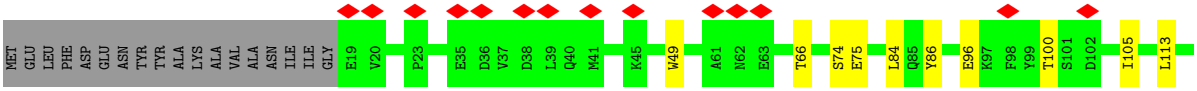


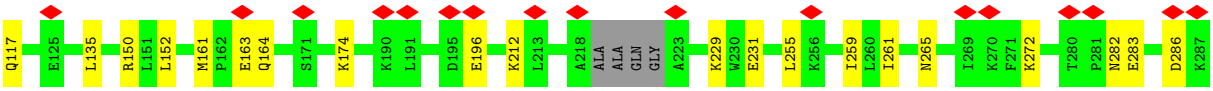


• Molecule 1: Cytosolic protein

Chain KX:



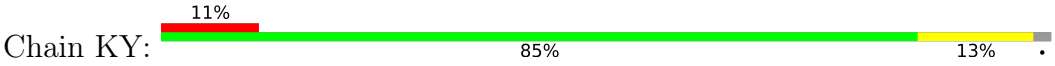


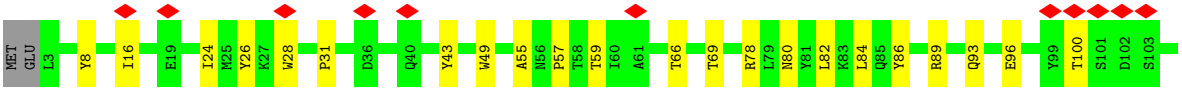


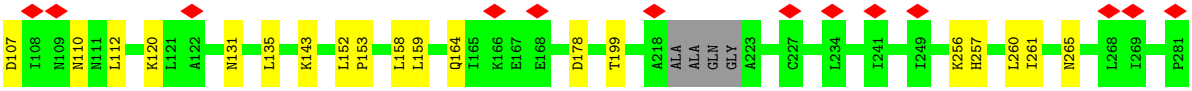


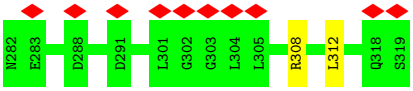
• Molecule 1: Cytosolic protein

Chain KY:



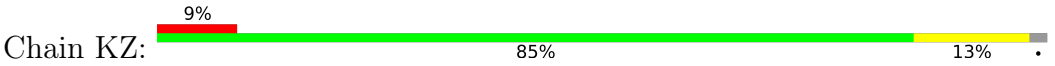


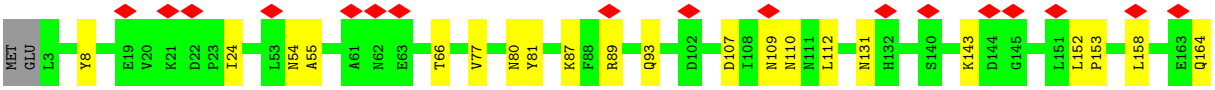


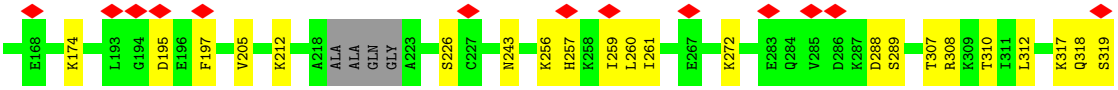


• Molecule 1: Cytosolic protein

Chain KZ:

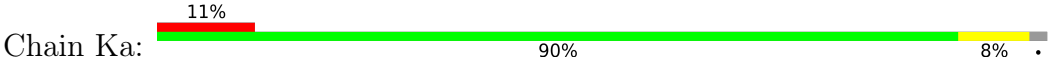


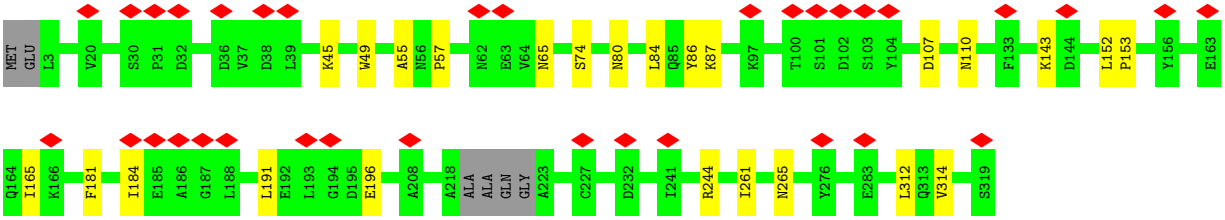




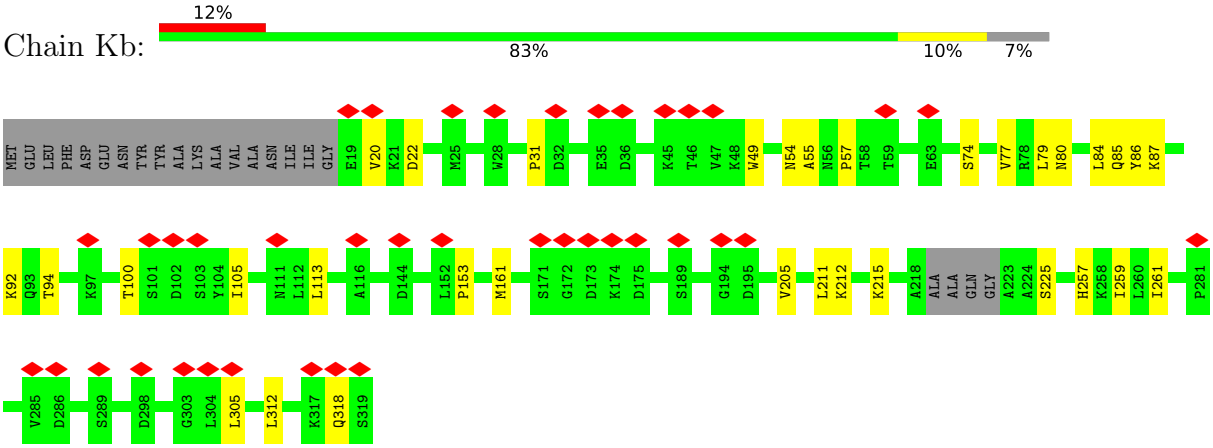
• Molecule 1: Cytosolic protein

Chain Ka:

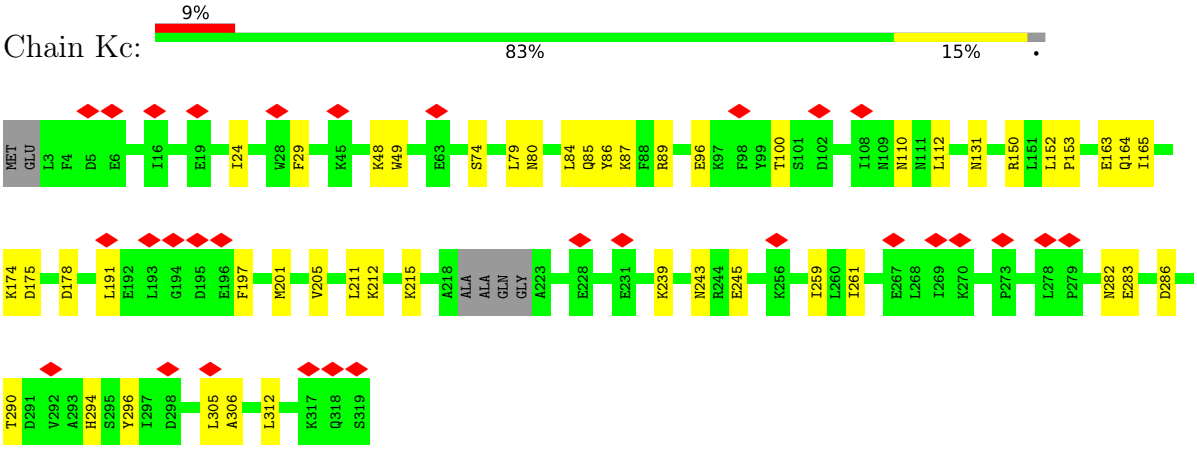




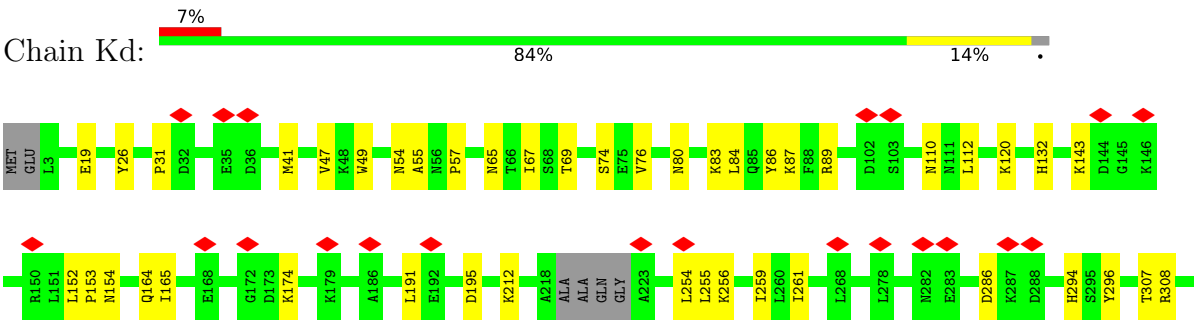
• Molecule 1: Cytosolic protein

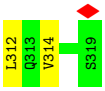


• Molecule 1: Cytosolic protein



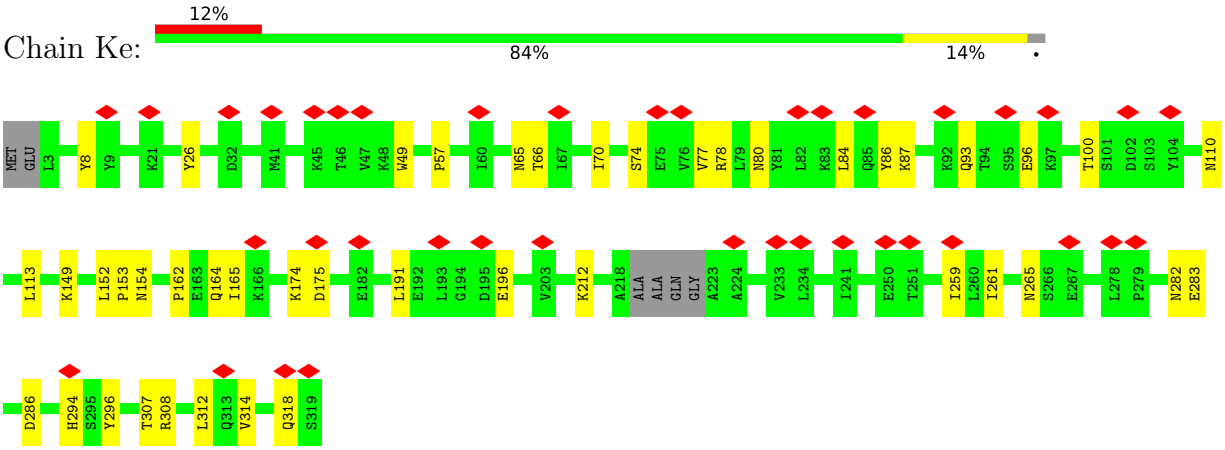
• Molecule 1: Cytosolic protein





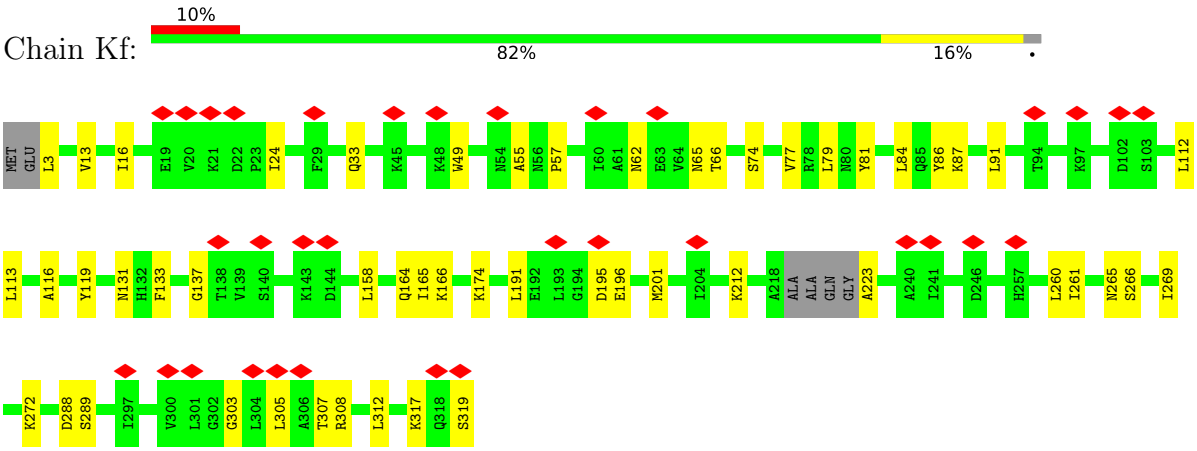
• Molecule 1: Cytosolic protein

Chain Ke:



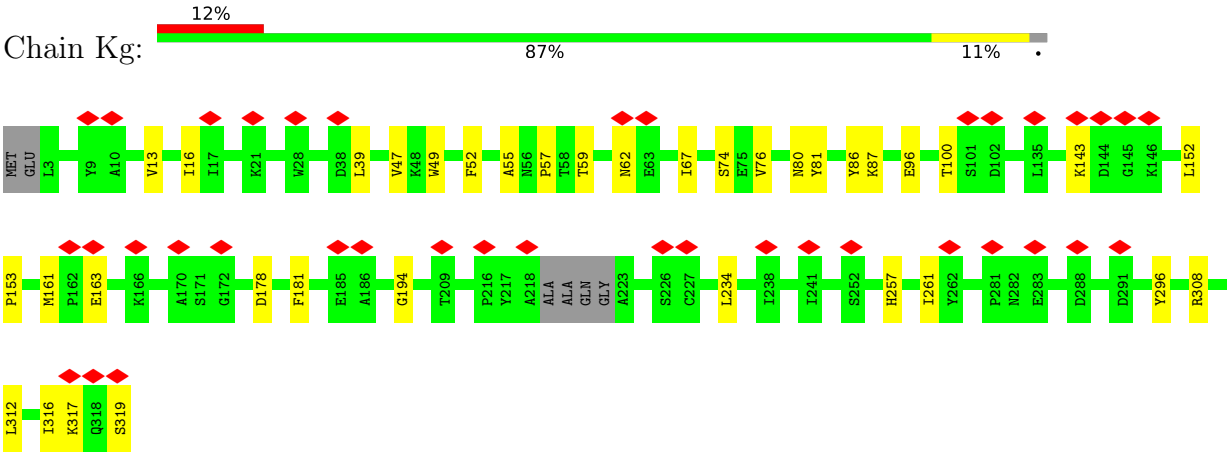
• Molecule 1: Cytosolic protein

Chain Kf:



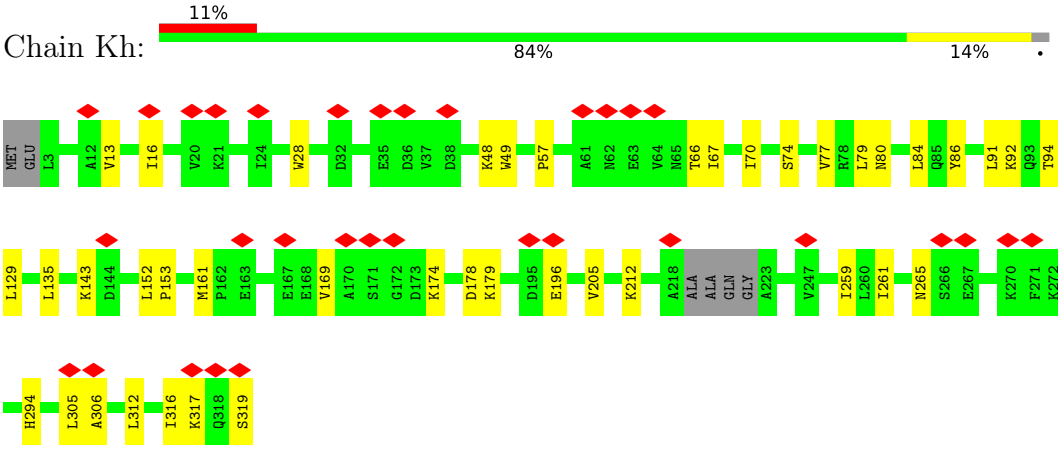
• Molecule 1: Cytosolic protein

Chain Kg:



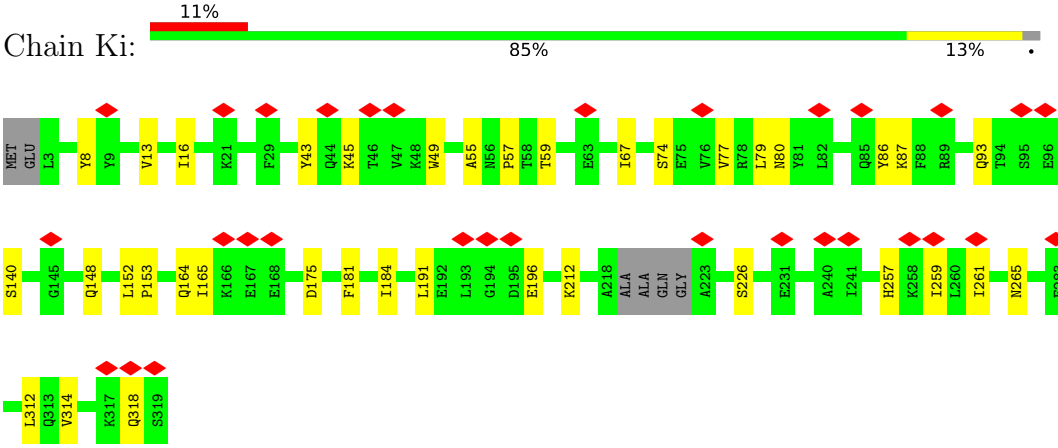
• Molecule 1: Cytosolic protein

Chain Kh:



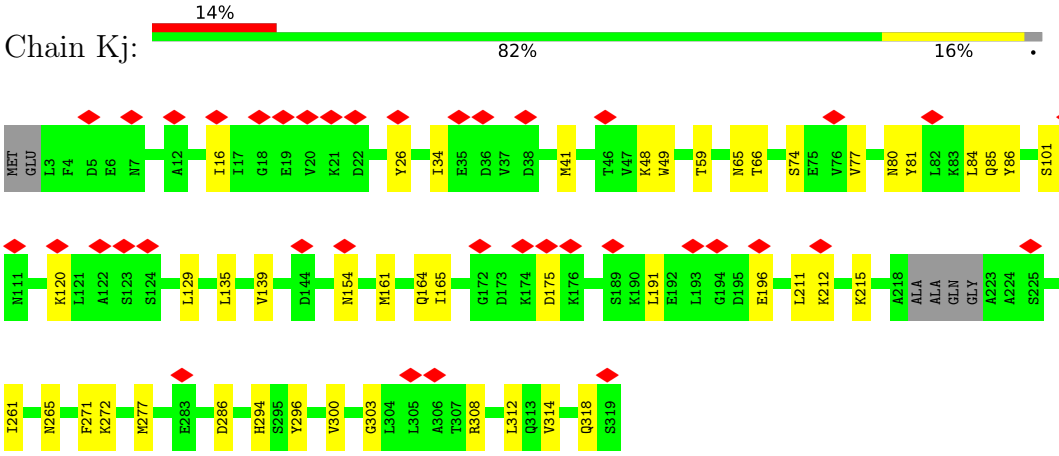
• Molecule 1: Cytosolic protein

Chain Ki:



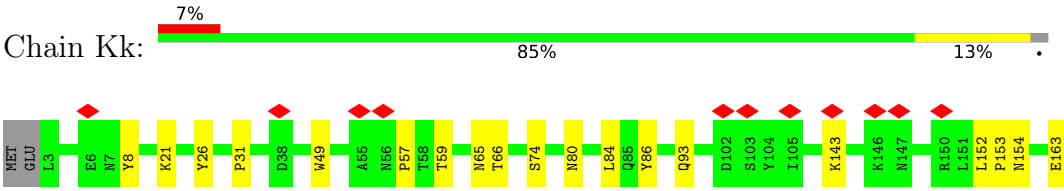
• Molecule 1: Cytosolic protein

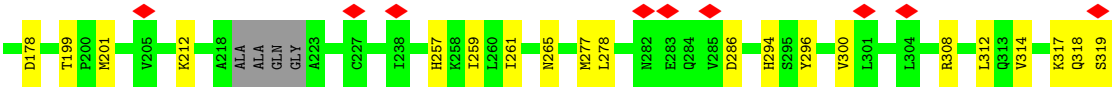
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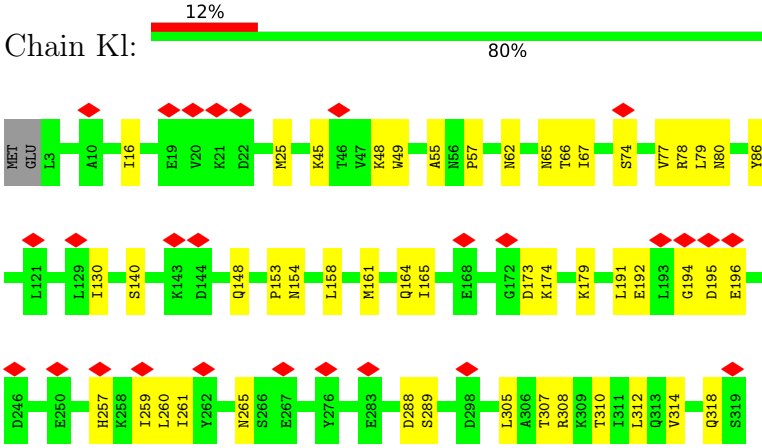
• Molecule 1: Cytosolic protein

Chain Kk:

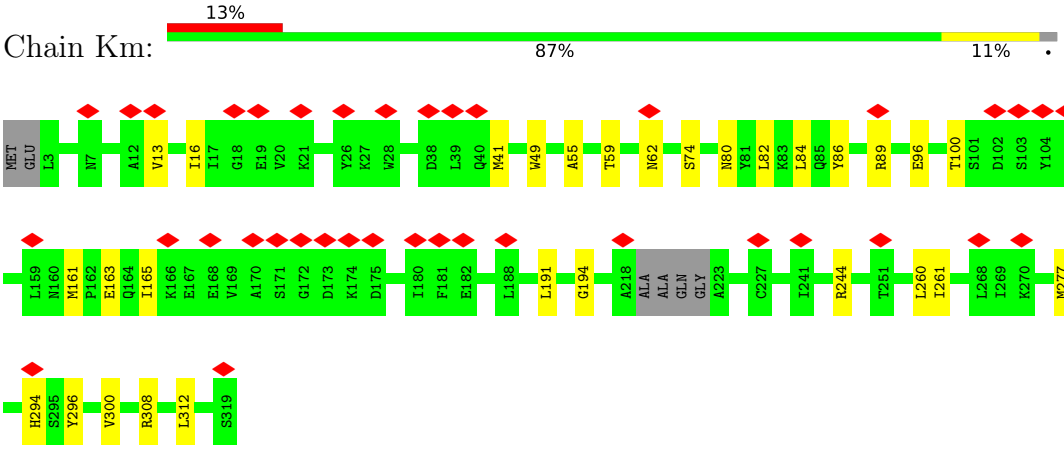




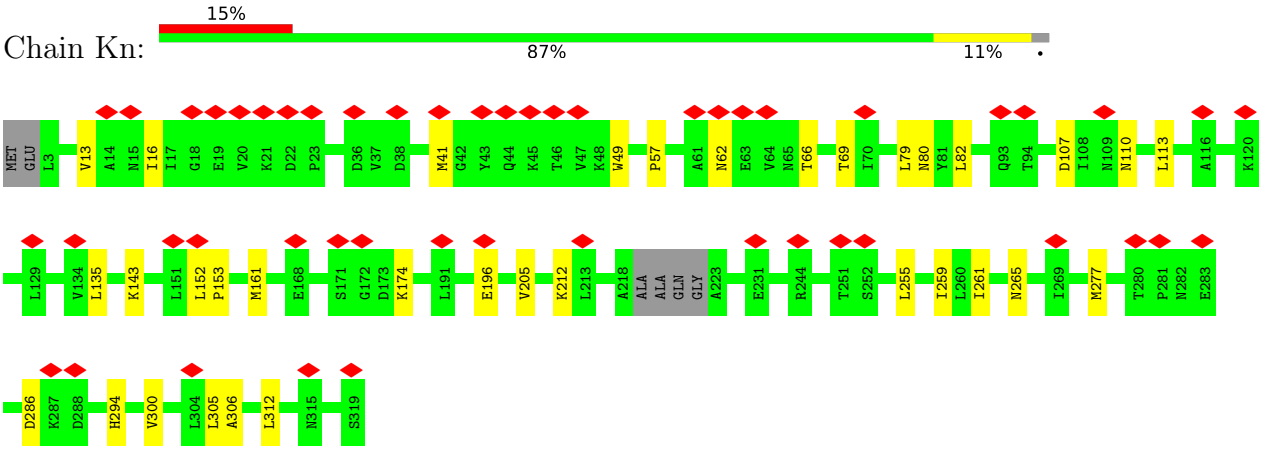
• Molecule 1: Cytosolic protein



• Molecule 1: Cytosolic protein

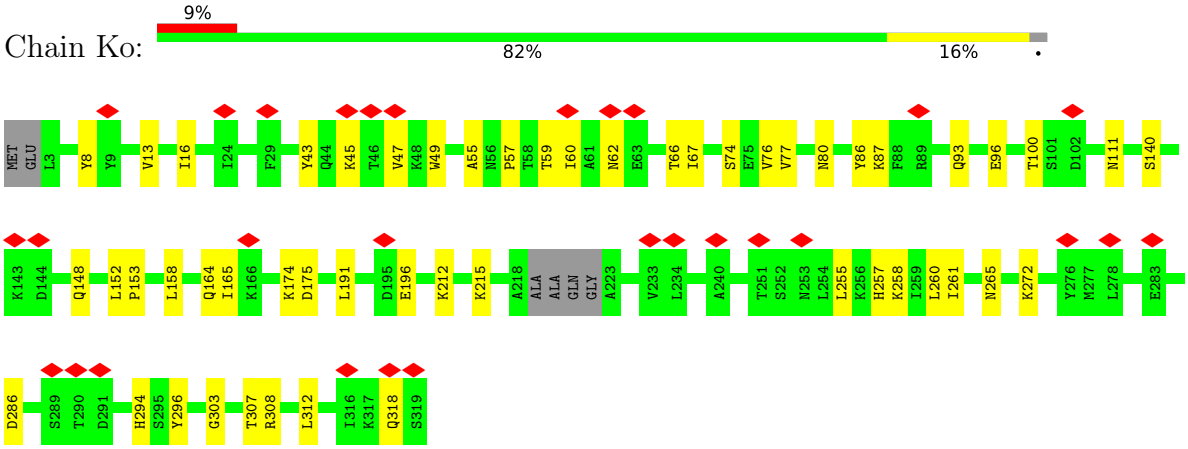


• Molecule 1: Cytosolic protein



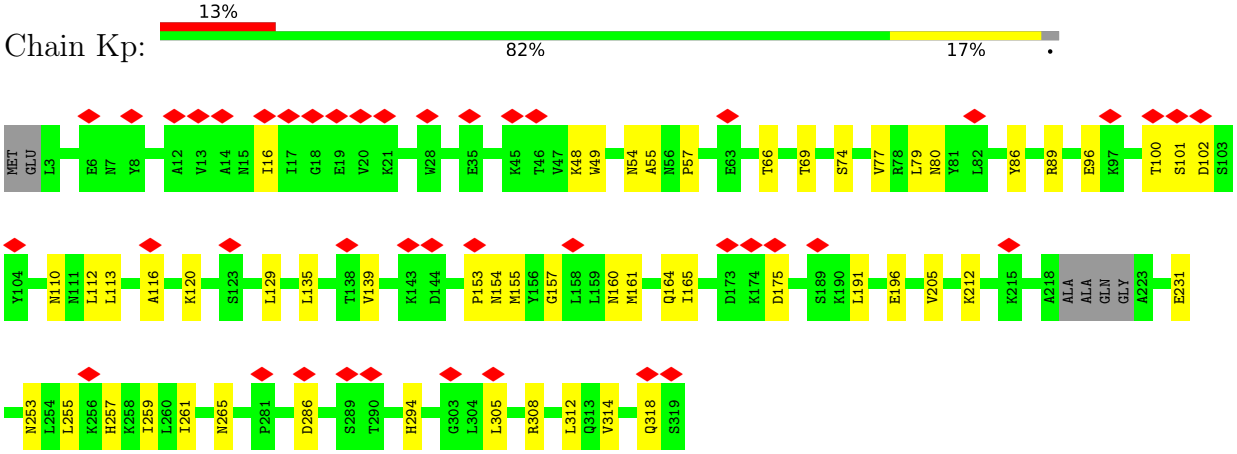
• Molecule 1: Cytosolic protein

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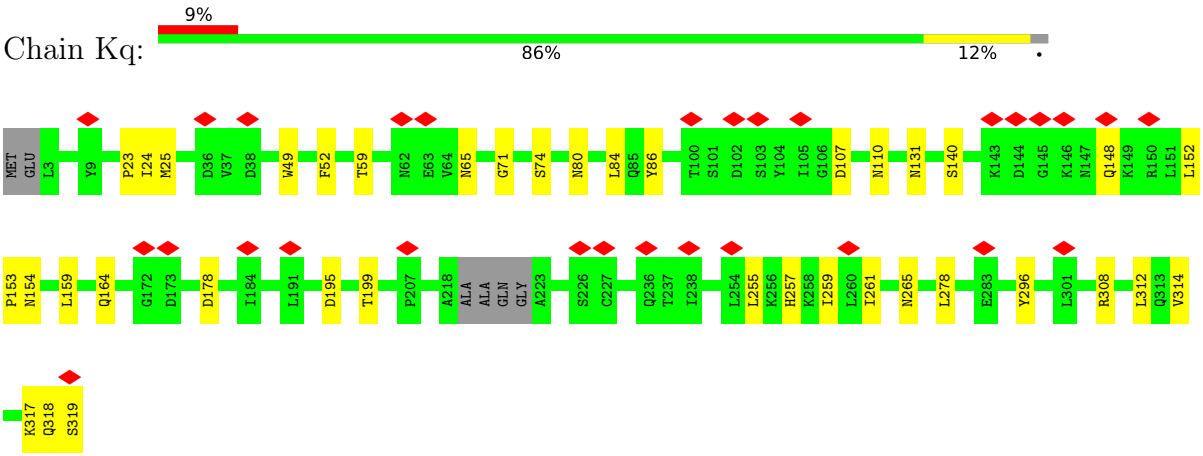
• Molecule 1: Cytosolic protein

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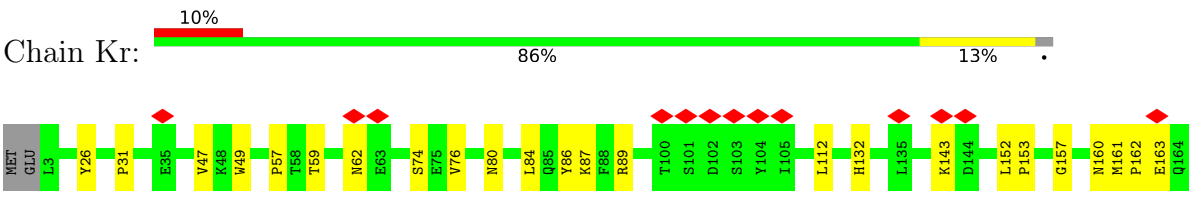
• Molecule 1: Cytosolic protein

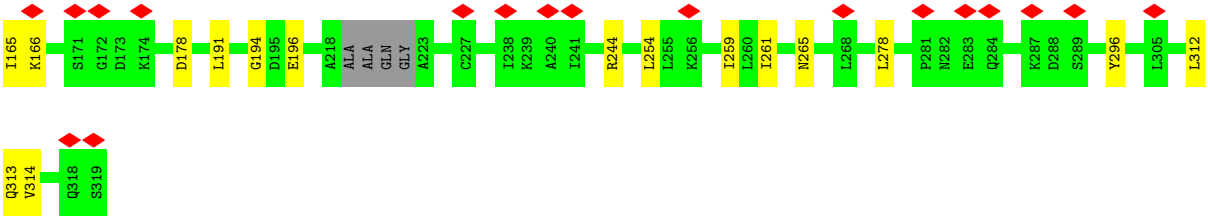
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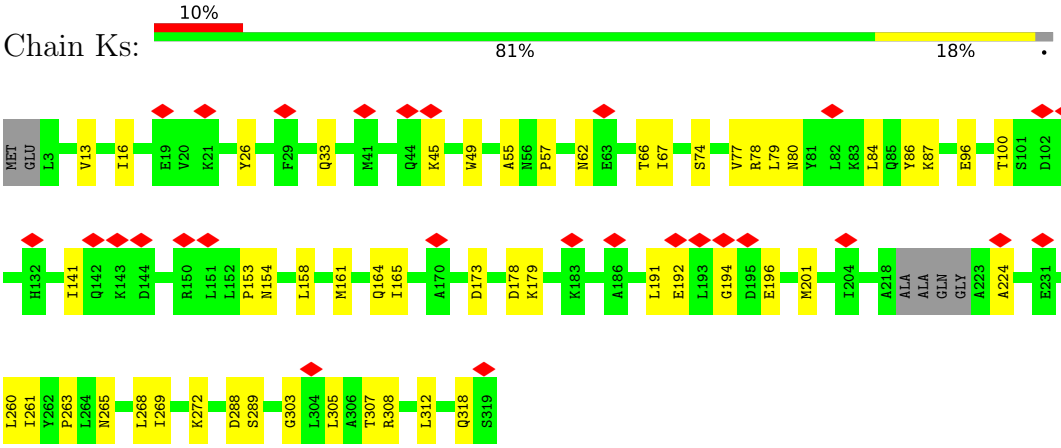
• Molecule 1: Cytosolic protein

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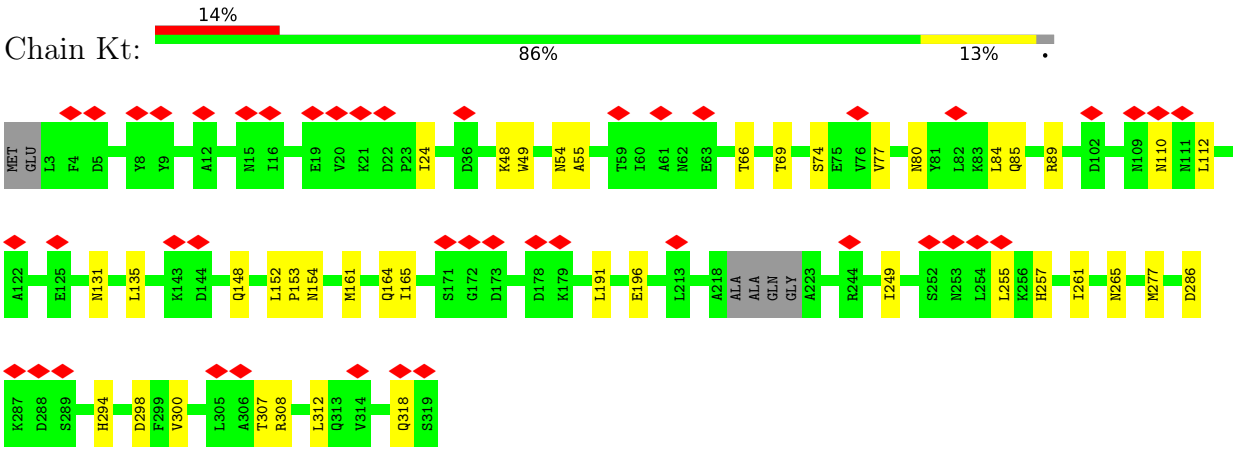




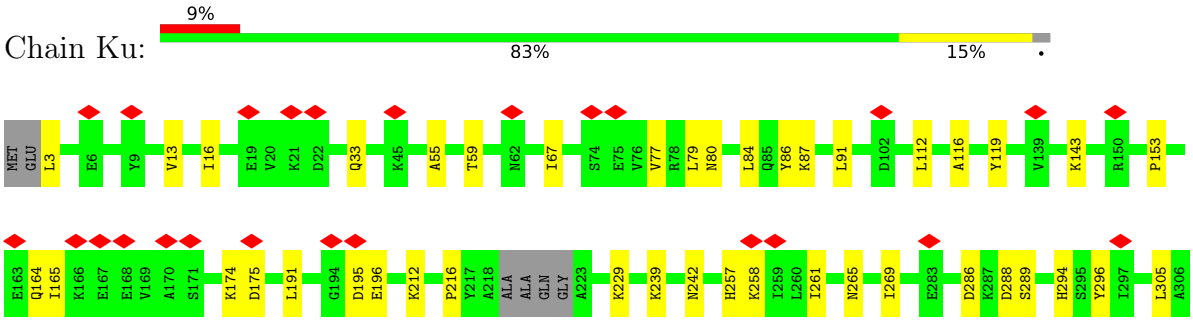
• Molecule 1: Cytosolic protein

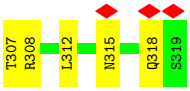


• Molecule 1: Cytosolic protein

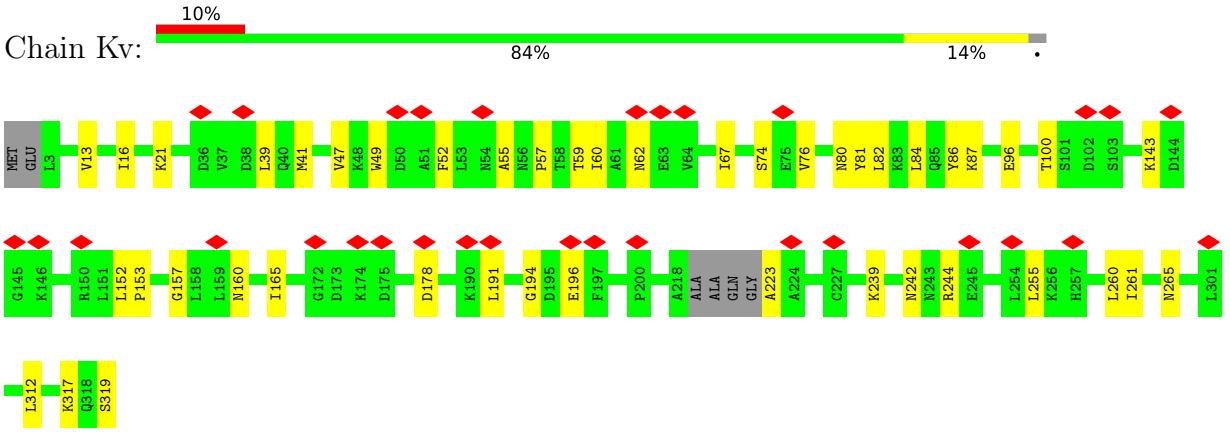


• Molecule 1: Cytosolic protein

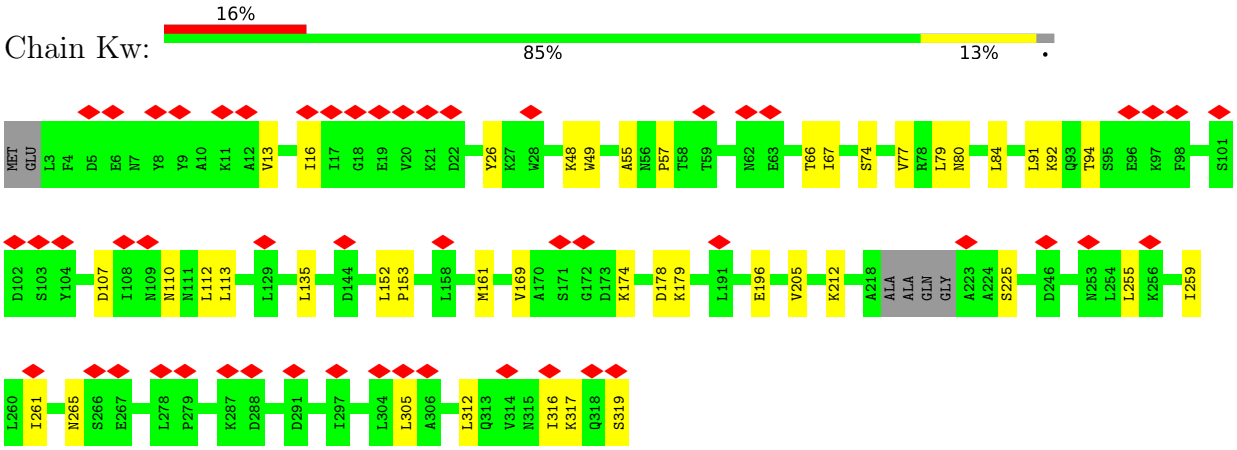




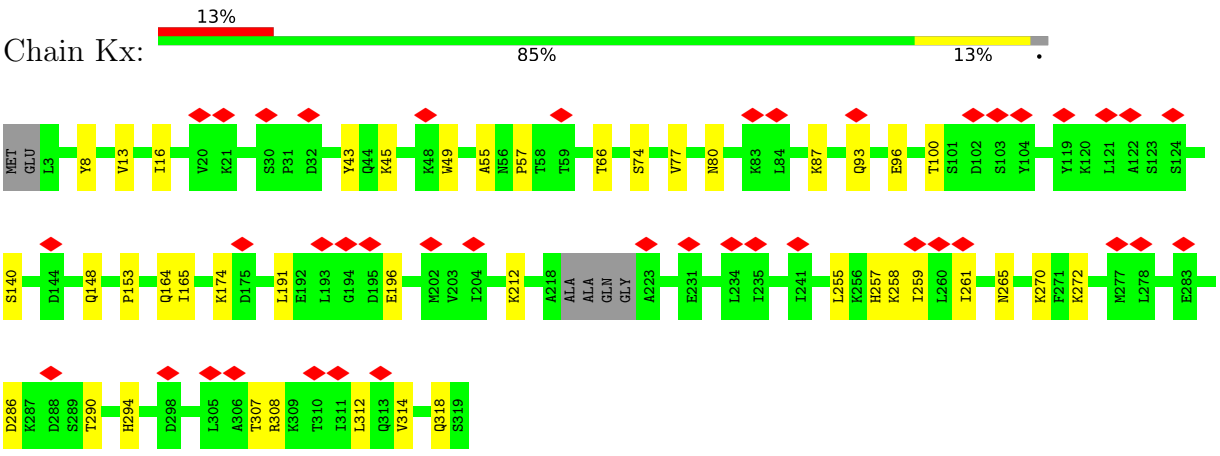
• Molecule 1: Cytosolic protein



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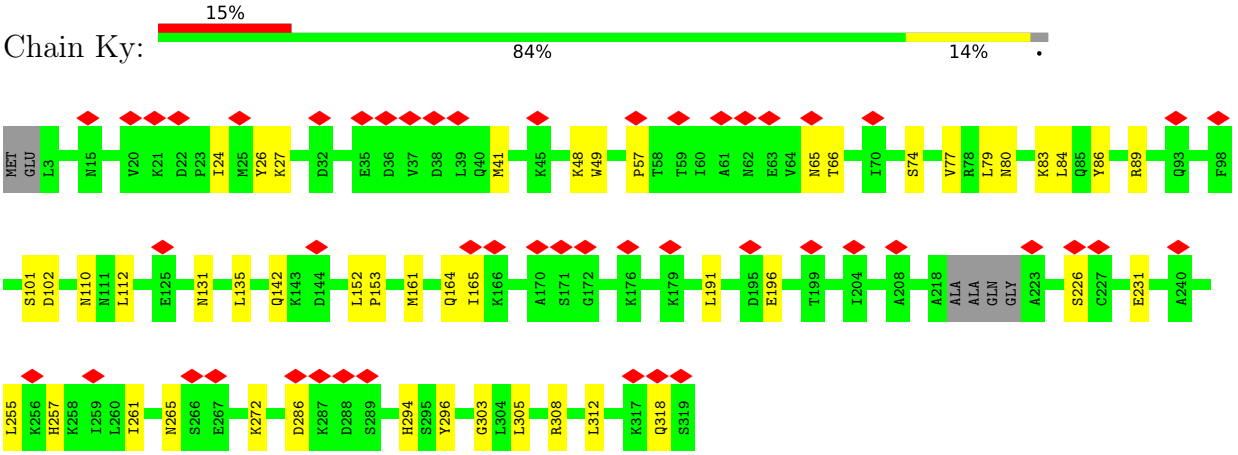


• Molecule 1: Cytosolic protein



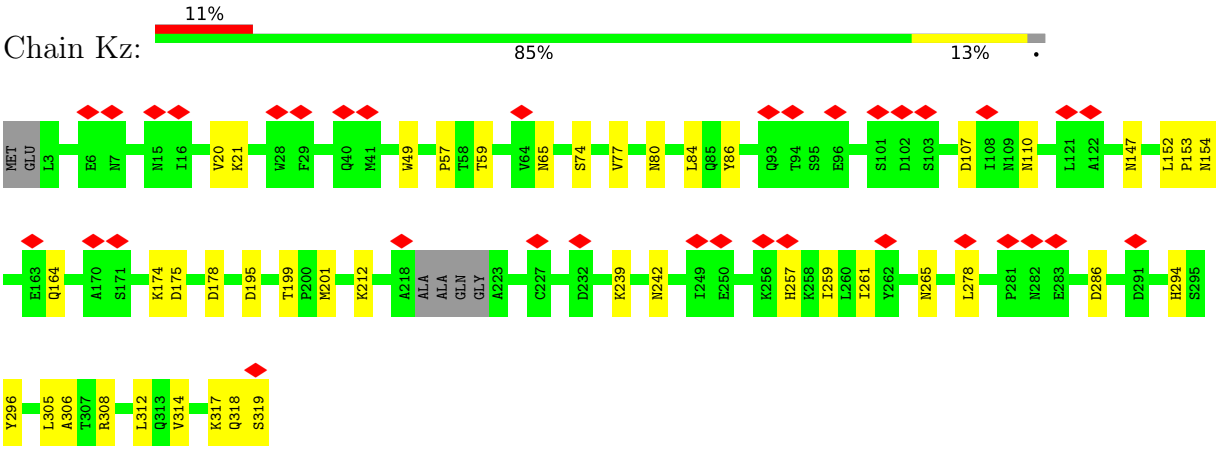
• Molecule 1: Cytosolic protein

Chain Ky:



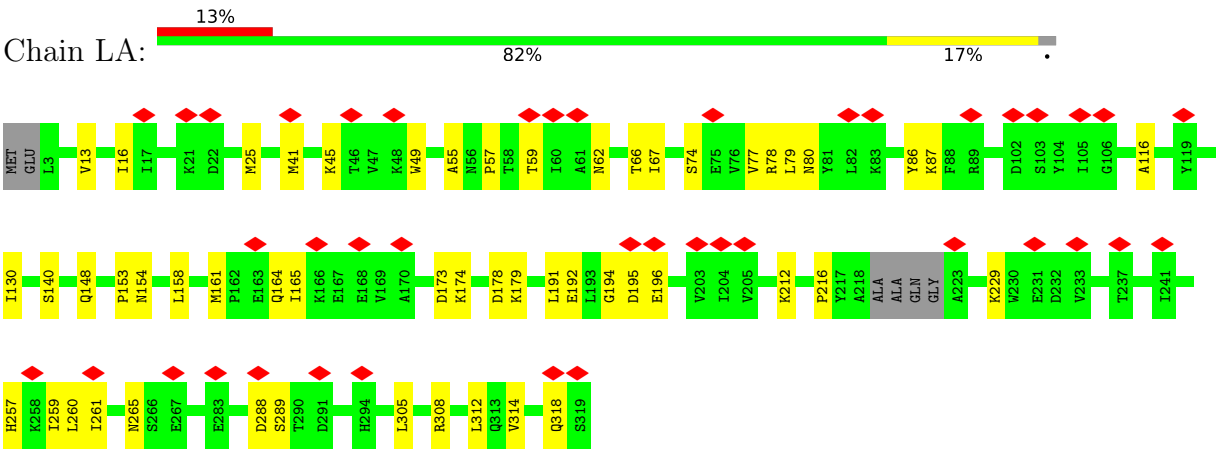
• Molecule 1: Cytosolic protein

Chain Kz:



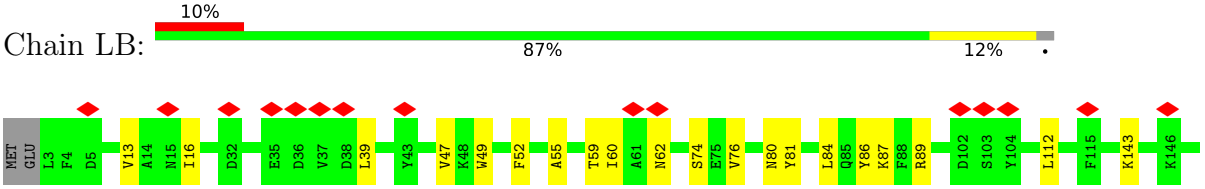
• Molecule 1: Cytosolic protein

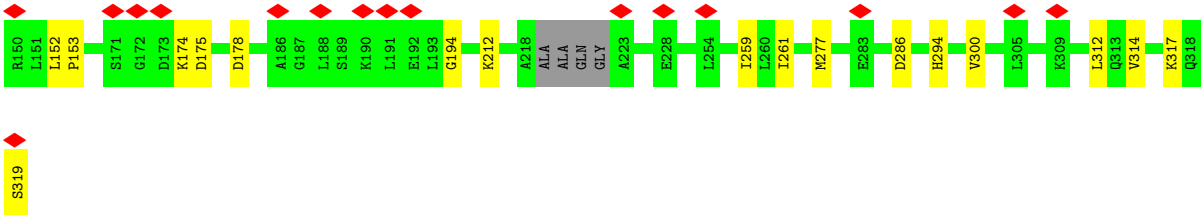
Chain LA:



• Molecule 1: Cytosolic protein

Chain LB:

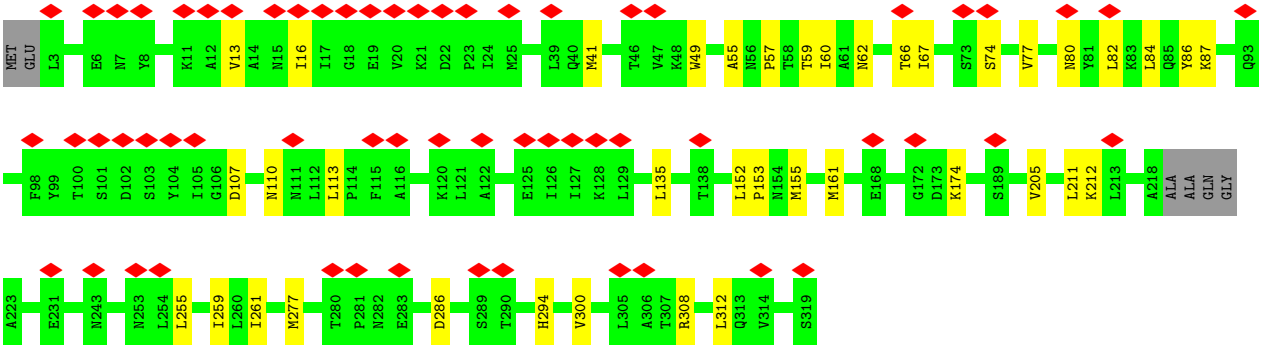




• Molecule 1: Cytosolic protein

Chain LC:

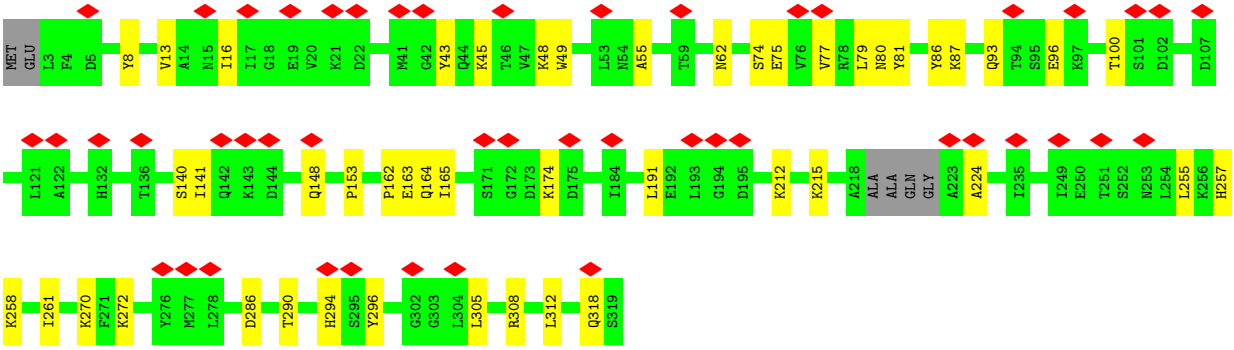




• Molecule 1: Cytosolic protein

Chain LD:

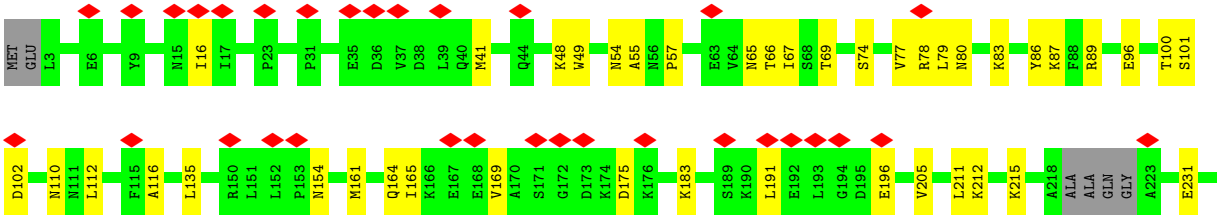


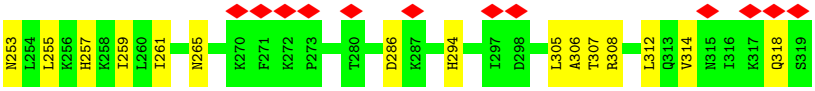


• Molecule 1: Cytosolic protein

Chain LE:



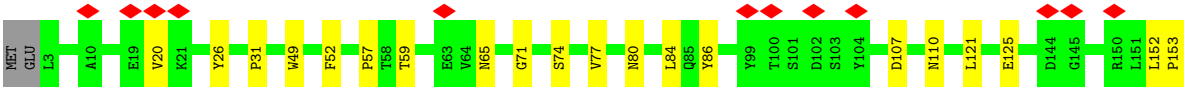


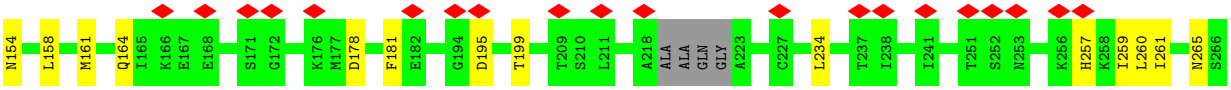


• Molecule 1: Cytosolic protein

Chain LF:







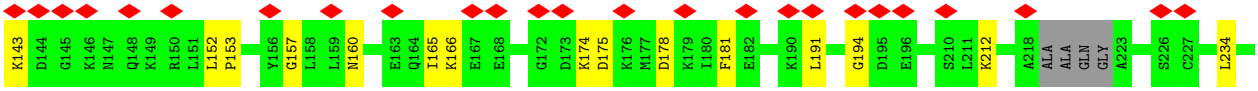


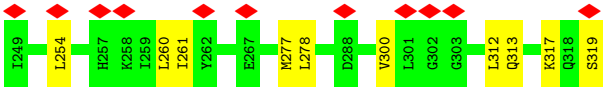
• Molecule 1: Cytosolic protein

Chain LG:





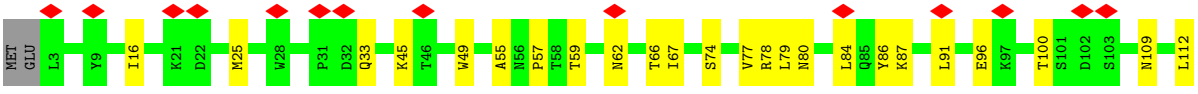


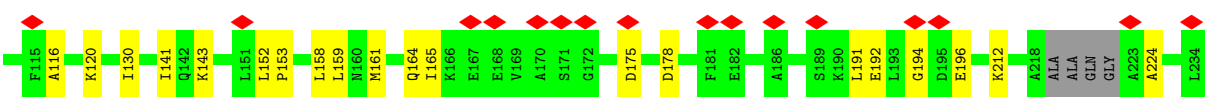


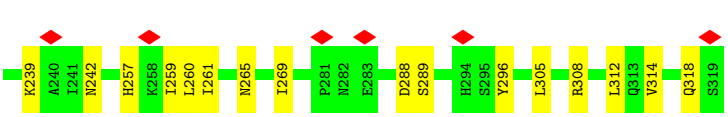
• Molecule 1: Cytosolic protein

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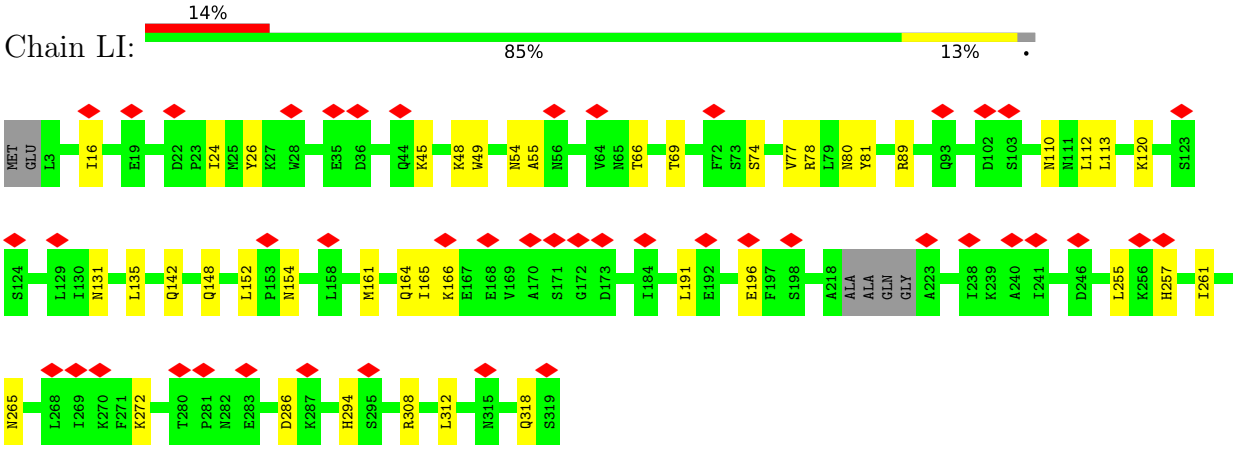






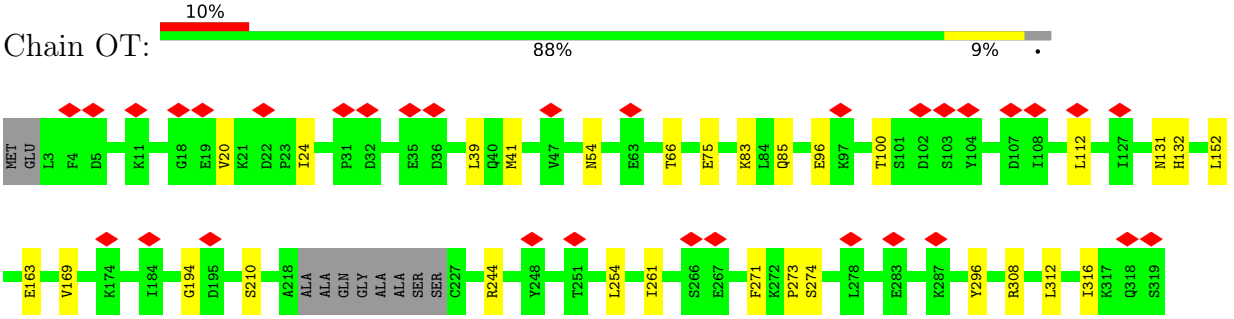
• Molecule 1: Cytosolic protein

Chain LI:



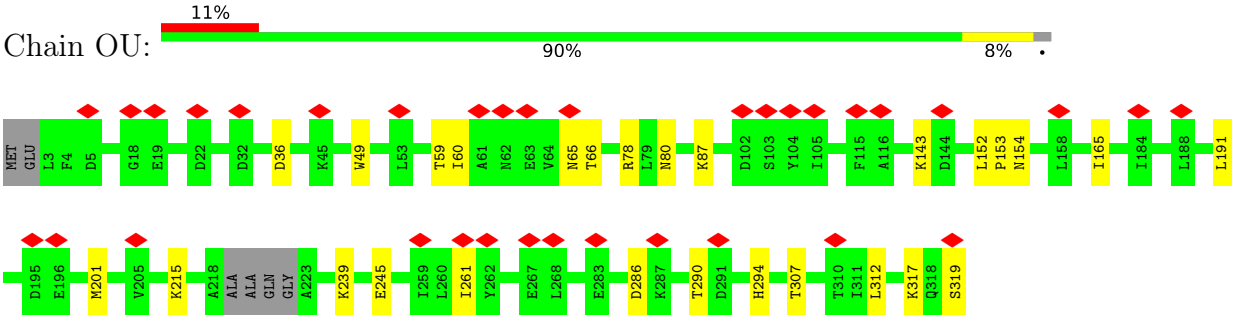
• Molecule 1: Cytosolic protein

Chain OT:



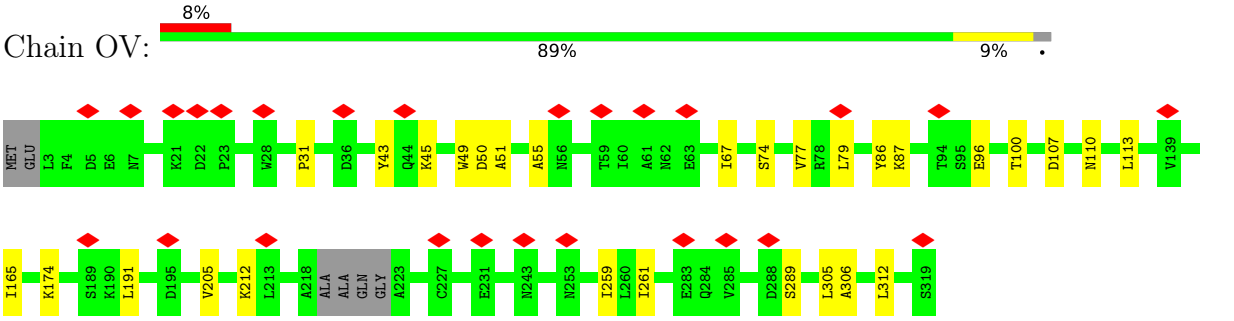
• Molecule 1: Cytosolic protein

Chain OU:



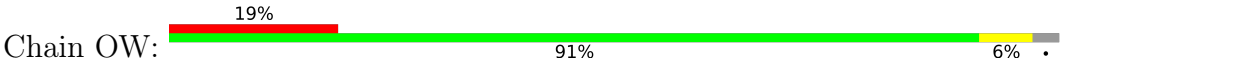
• Molecule 1: Cytosolic protein

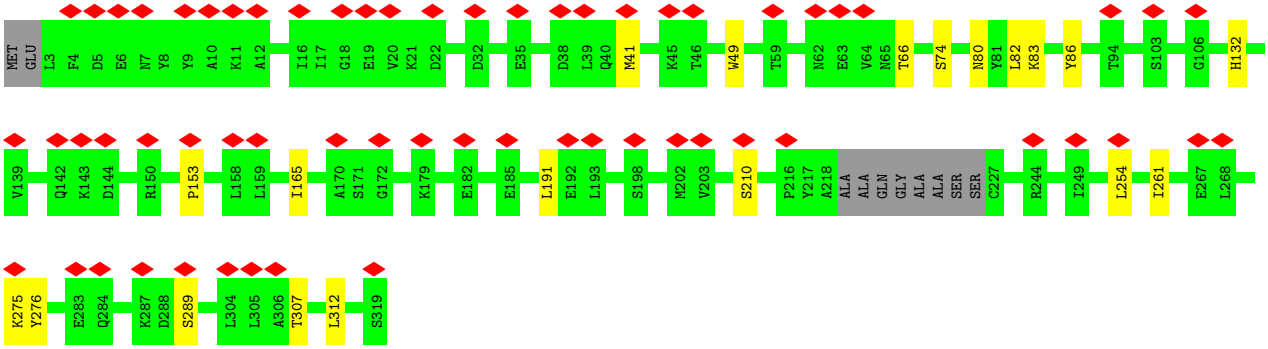
Chain OV:



• Molecule 1: Cytosolic protein

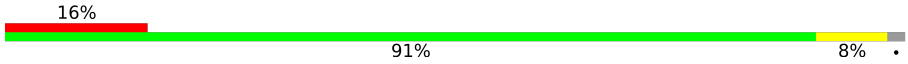
Chain OW:

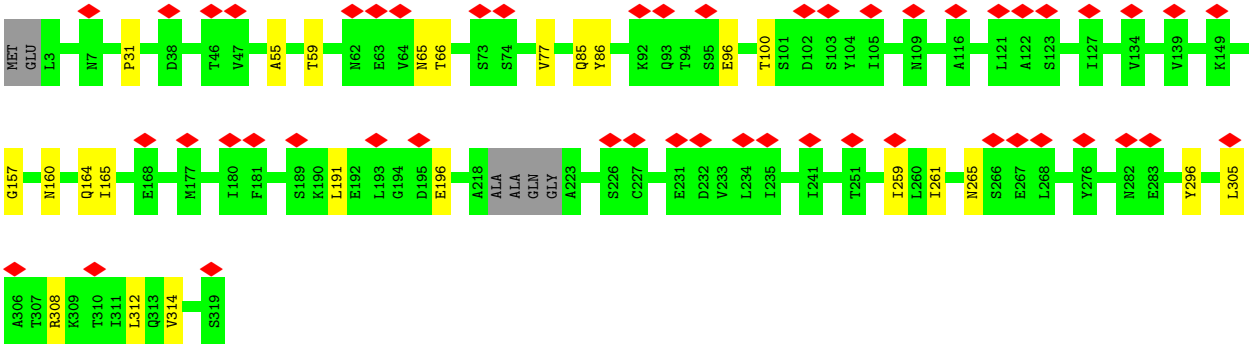




• Molecule 1: Cytosolic protein

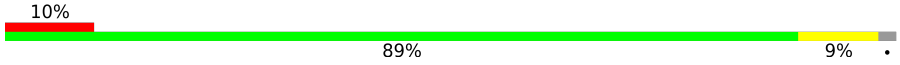
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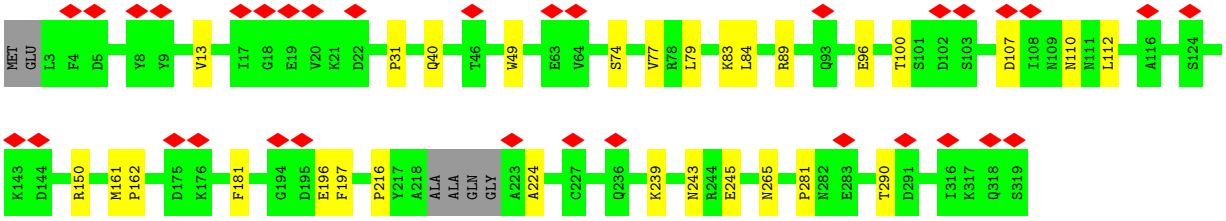




• Molecule 1: Cytosolic protein

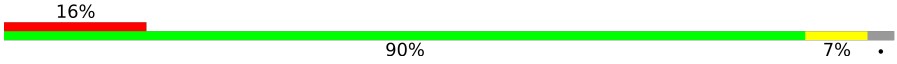
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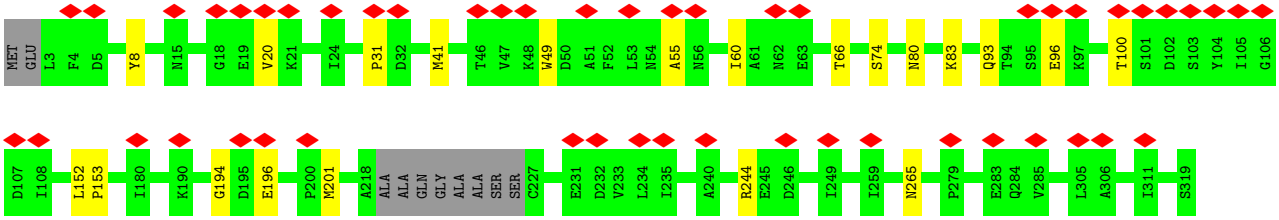




• Molecule 1: Cytosolic protein

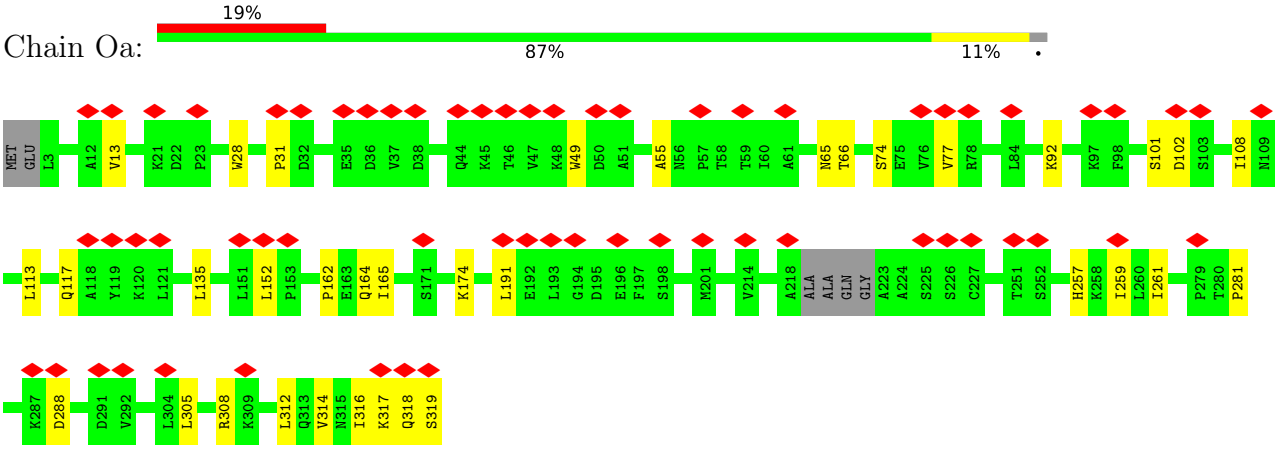
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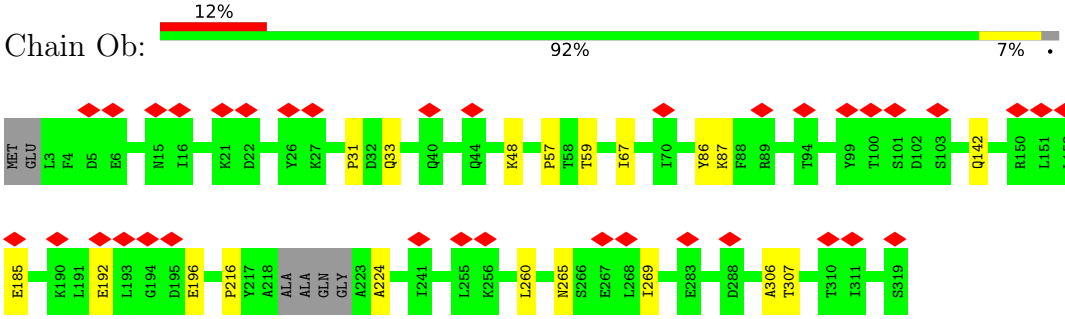
• Molecule 1: Cytosolic protein

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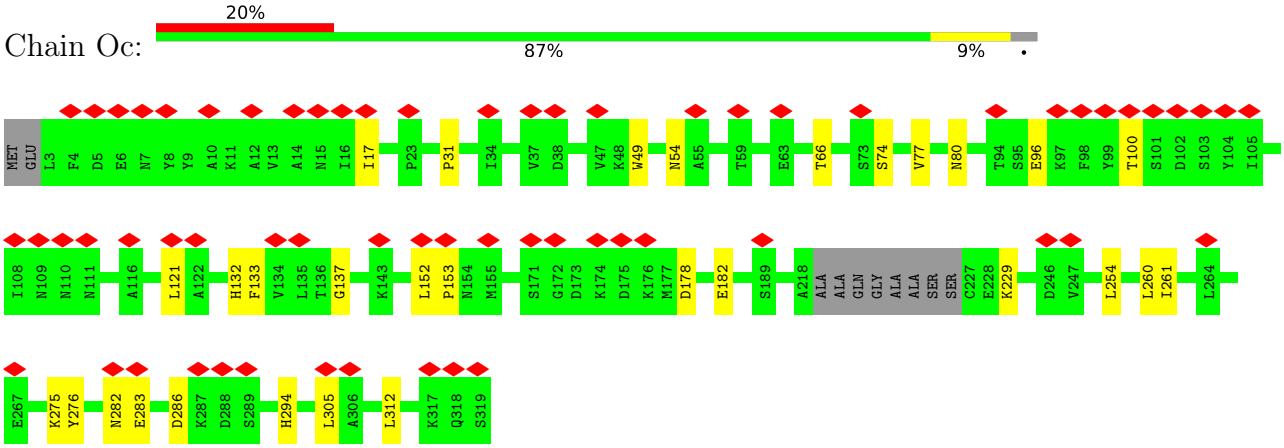
• Molecule 1: Cytosolic protein

Chain Ob:



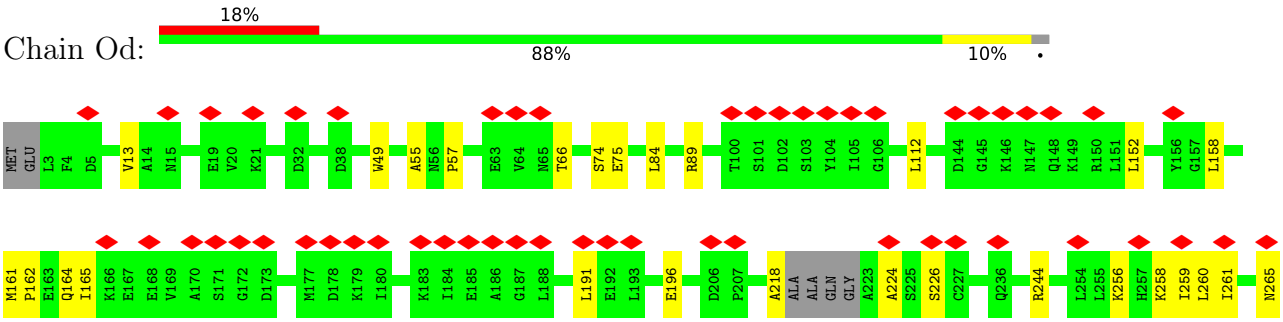
• Molecule 1: Cytosolic protein

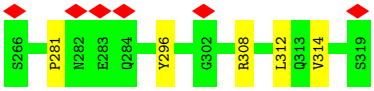
Chain Oc:



• Molecule 1: Cytosolic protein

Chain Od:

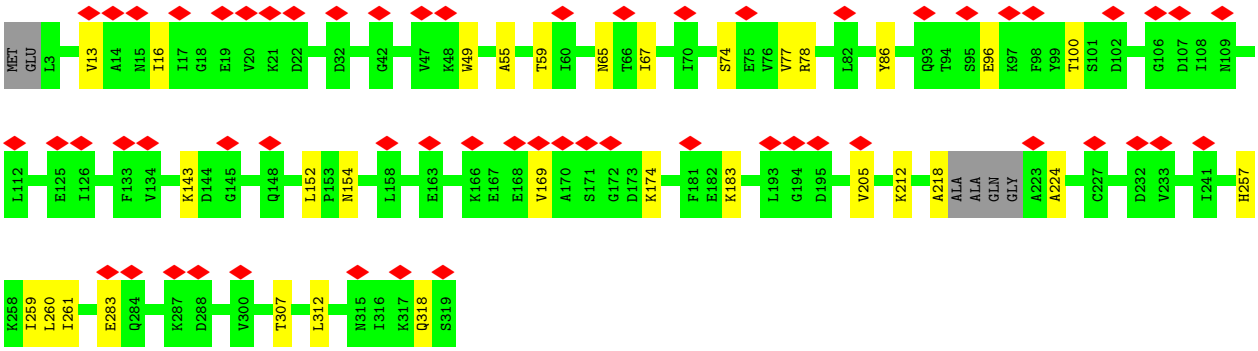




• Molecule 1: Cytosolic protein

Chain Oe:

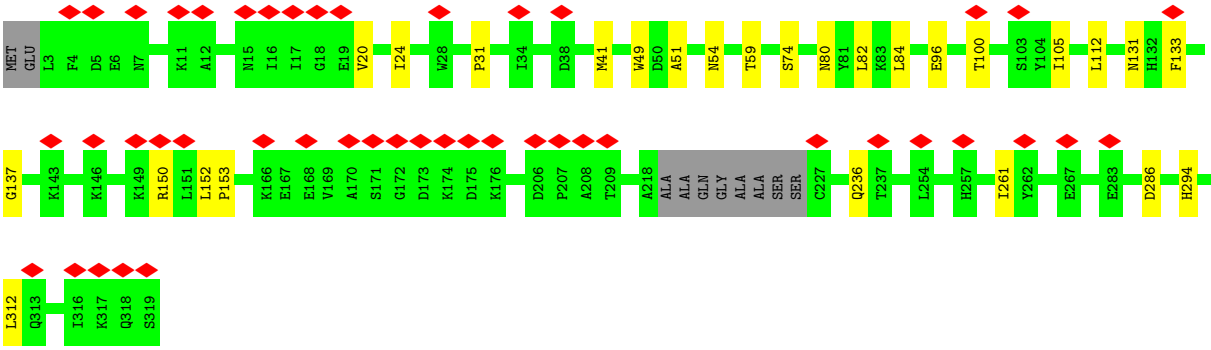




• Molecule 1: Cytosolic protein

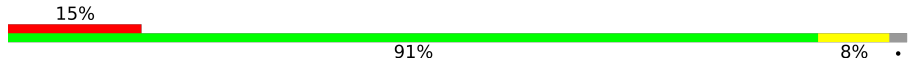
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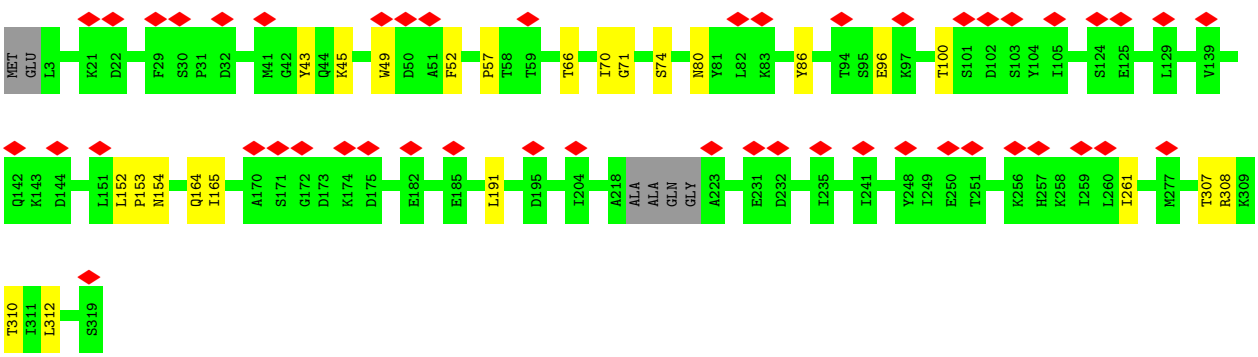




• Molecule 1: Cytosolic protein

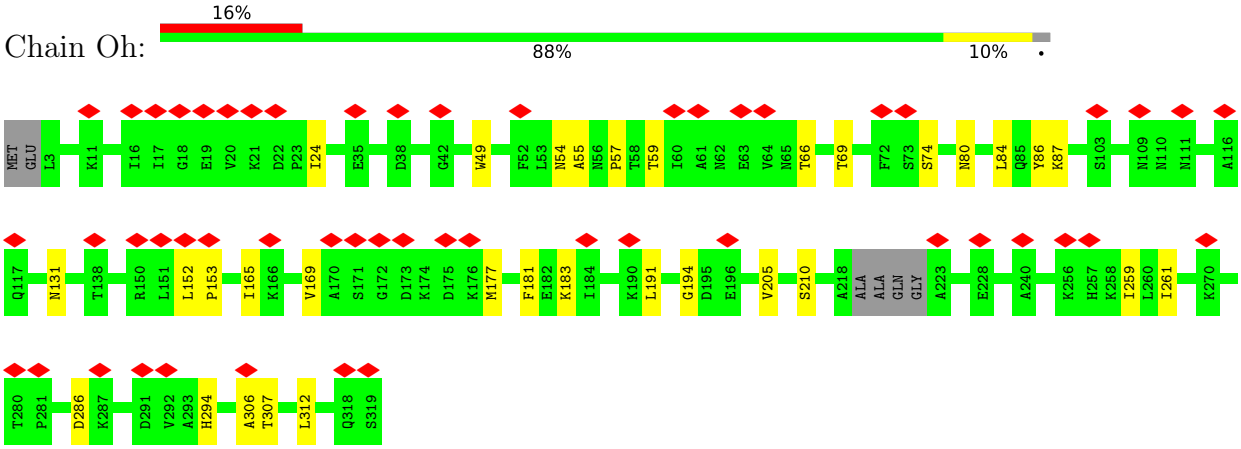
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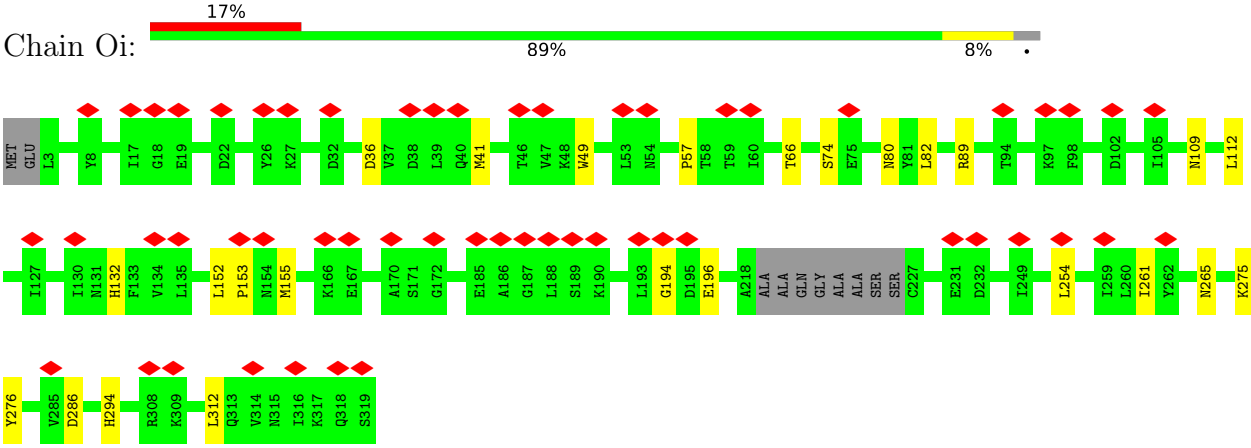
• Molecule 1: Cytosolic protein

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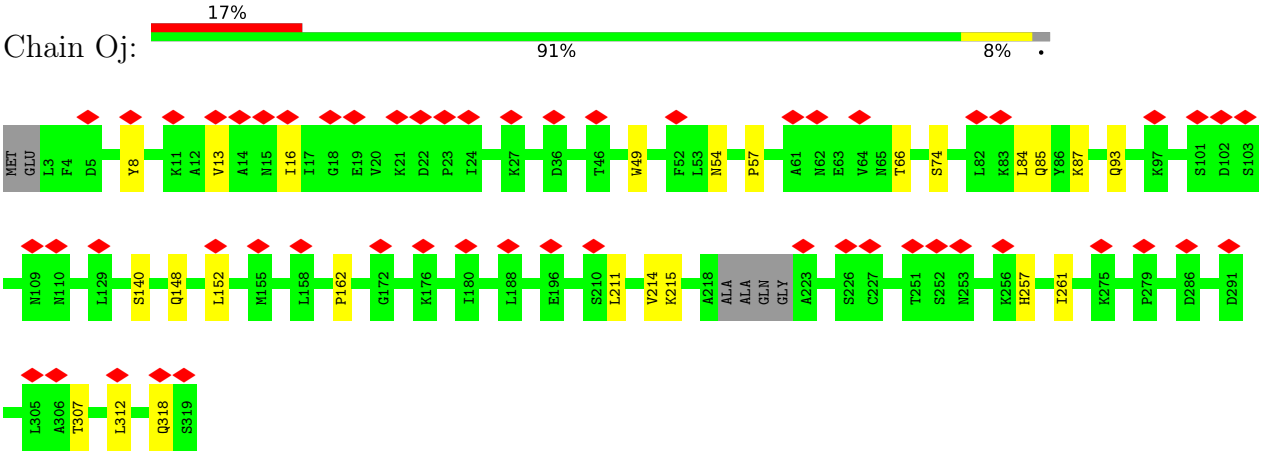
• Molecule 1: Cytosolic protein

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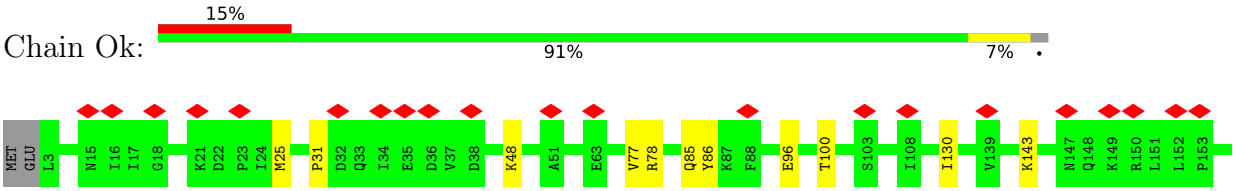
• Molecule 1: Cytosolic protein

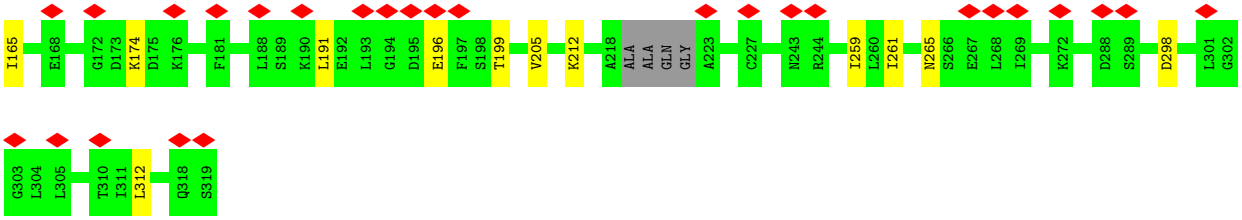
Chain Oj:



• Molecule 1: Cytosolic protein

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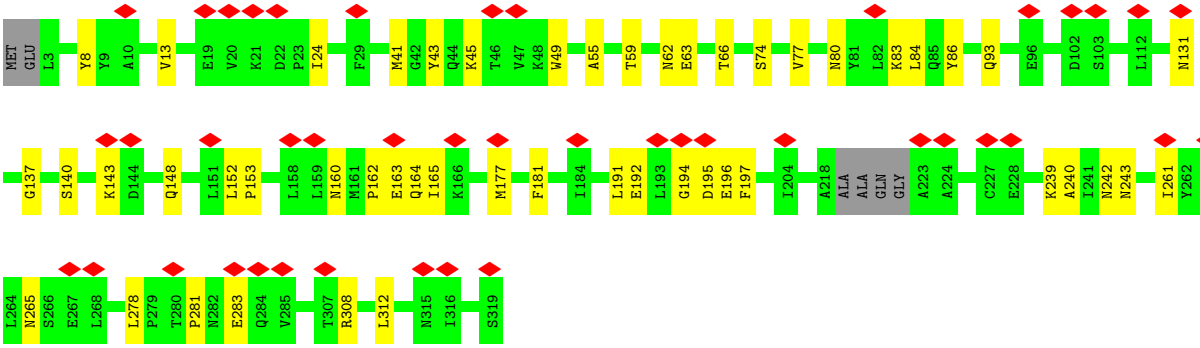




• Molecule 1: Cytosolic protein

Chain Ol:

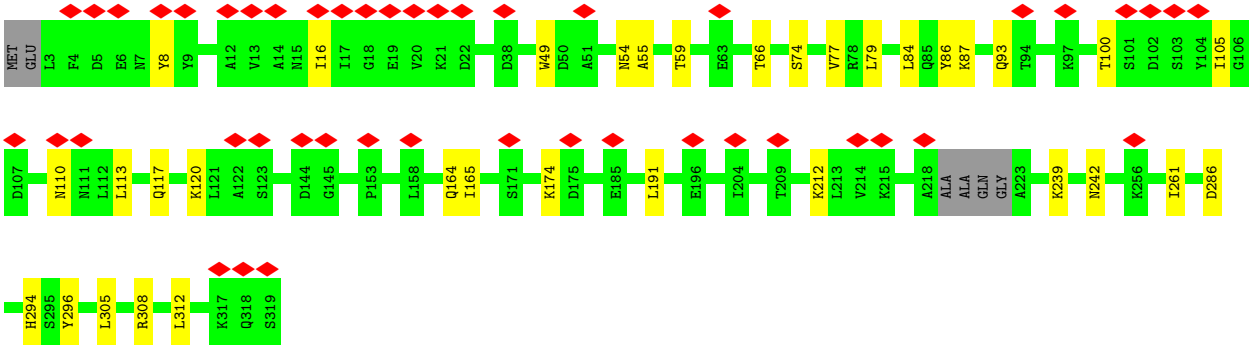




• Molecule 1: Cytosolic protein

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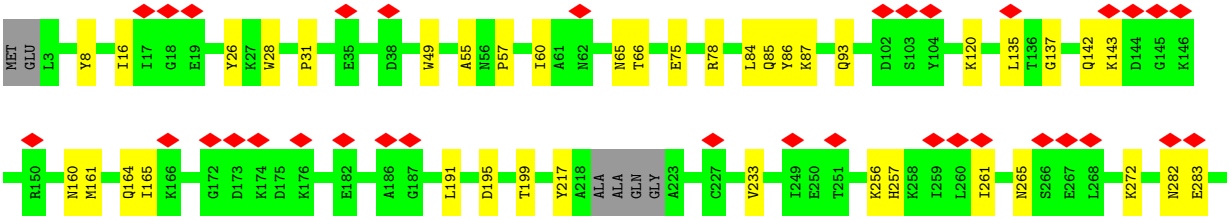


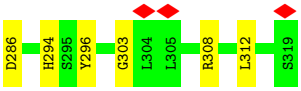


• Molecule 1: Cytosolic protein

Chain On:



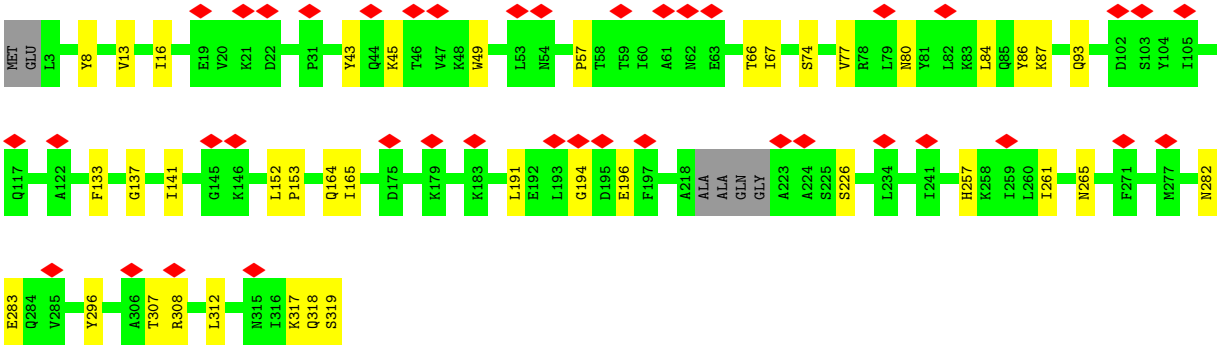




• Molecule 1: Cytosolic protein

Chain Oo:

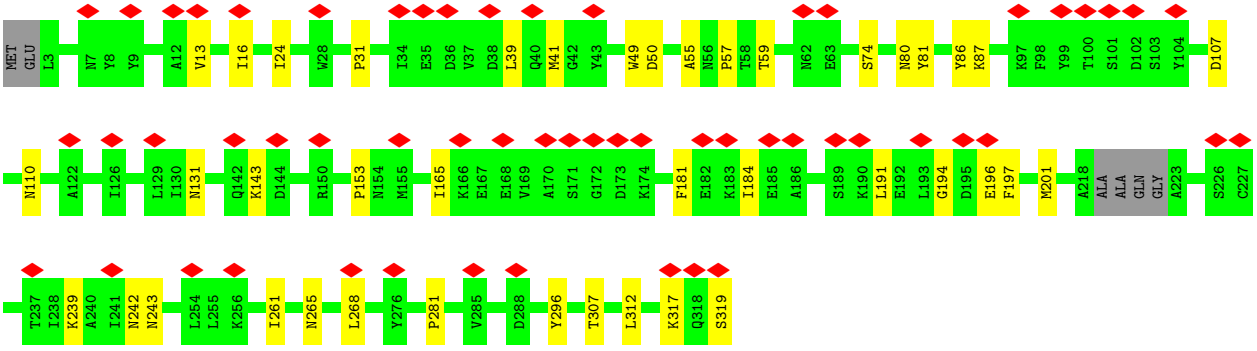




• Molecule 1: Cytosolic protein

Chain Op:

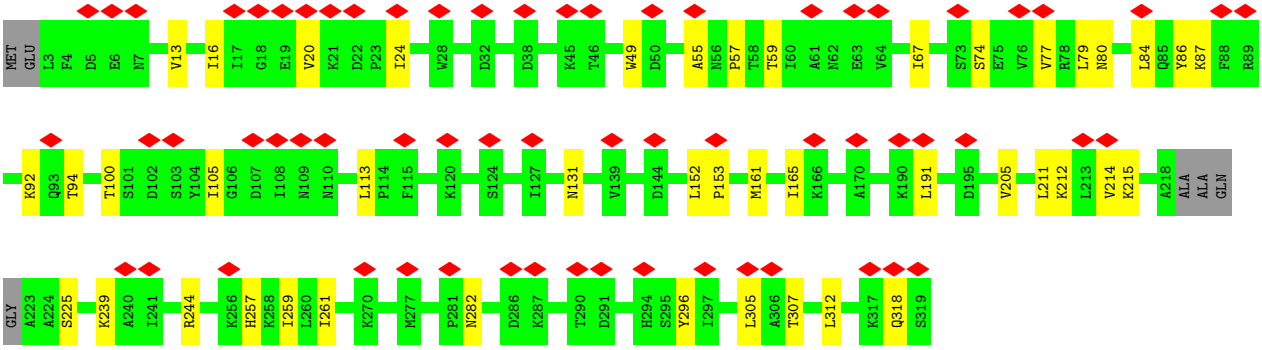




• Molecule 1: Cytosolic protein

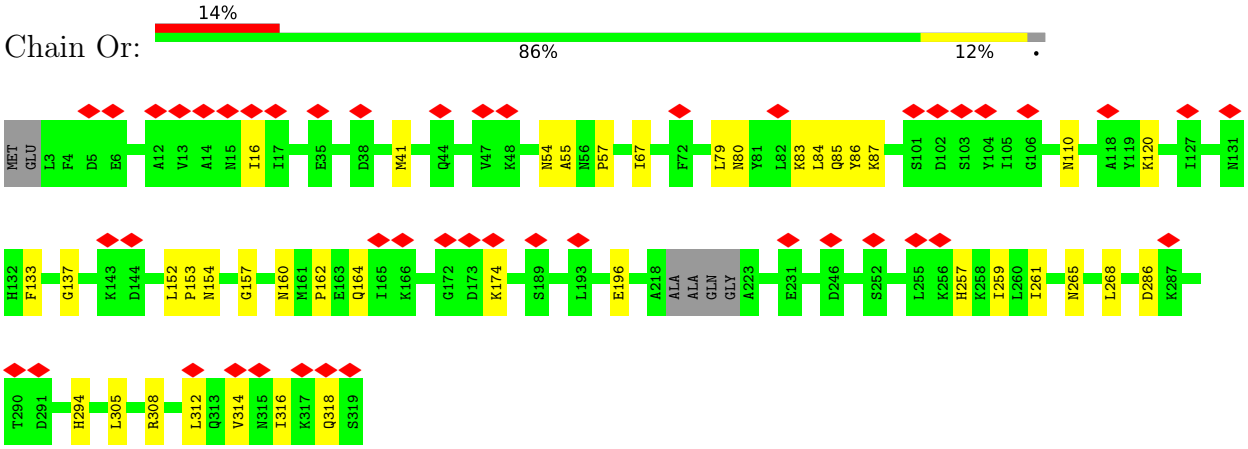
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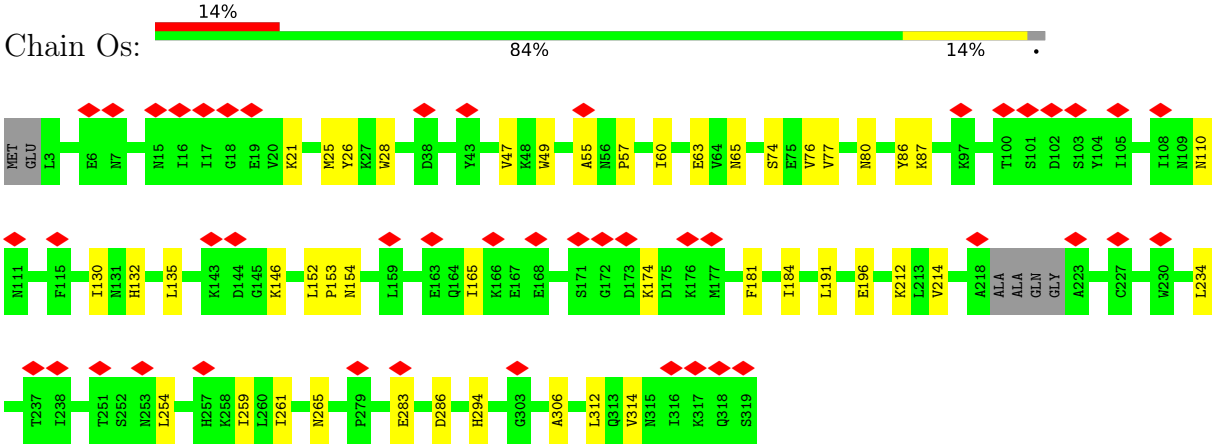
• Molecule 1: Cytosolic protein

Chain Or:



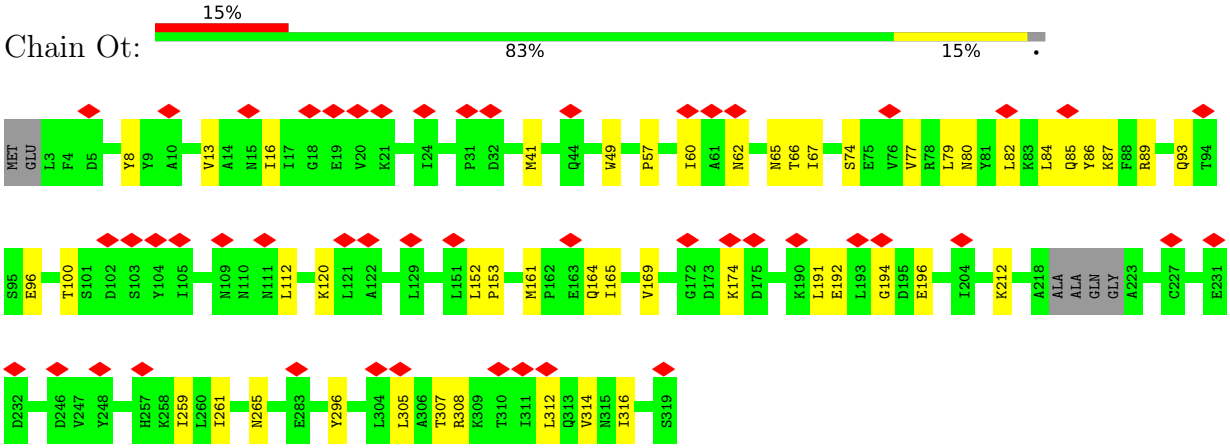
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Chain Os:



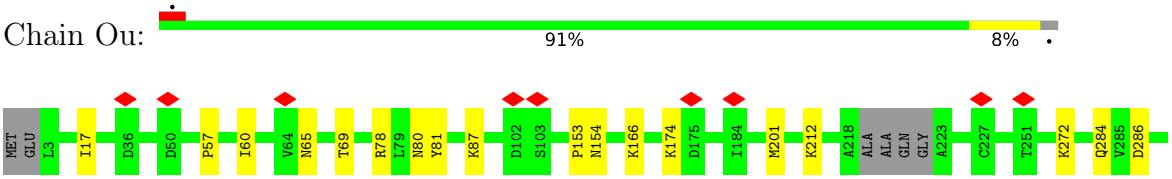
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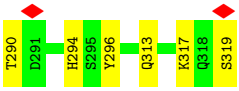
Chain Ot:



• Molecule 1: Cytosolic protein

Chain Ou:

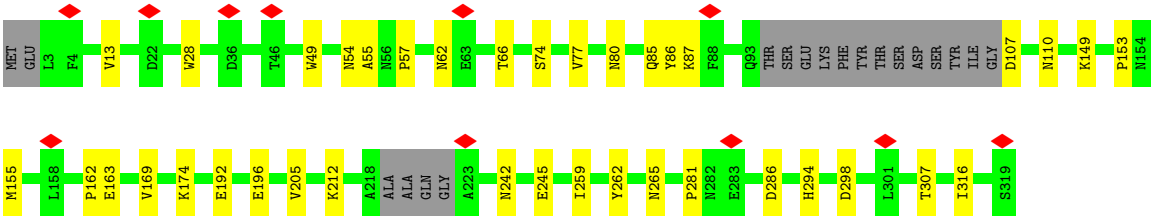




• Molecule 1: Cytosolic protein

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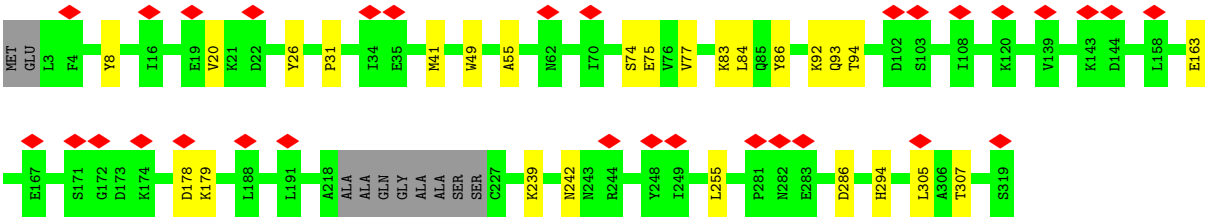




• Molecule 1: Cytosolic protein

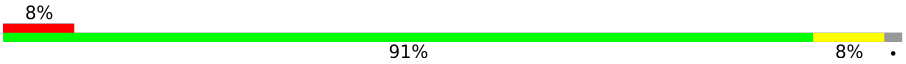
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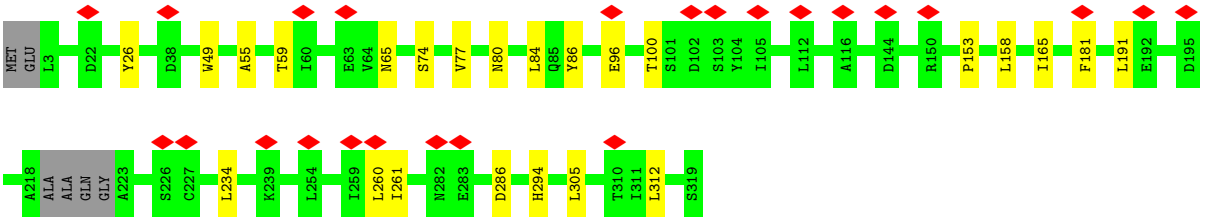




• Molecule 1: Cytosolic protein

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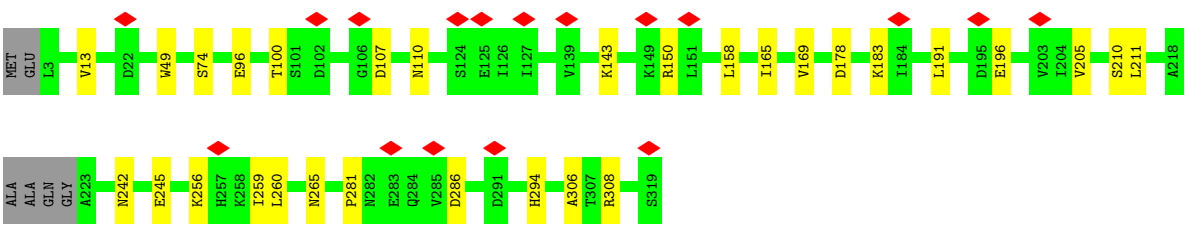




• Molecule 1: Cytosolic protein

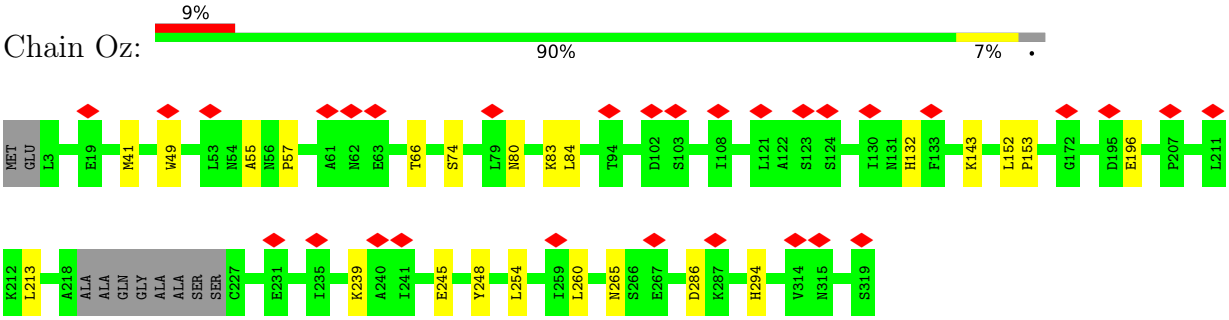
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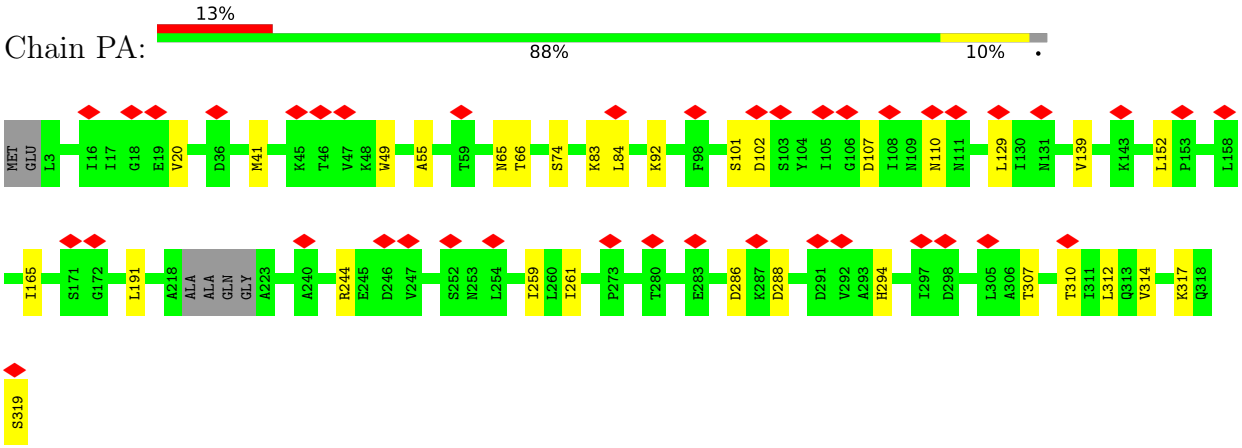
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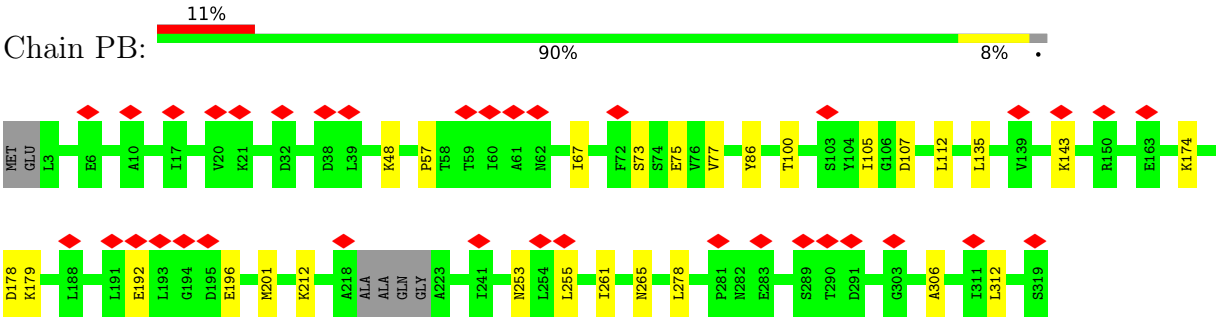
• Molecule 1: Cytosolic protein

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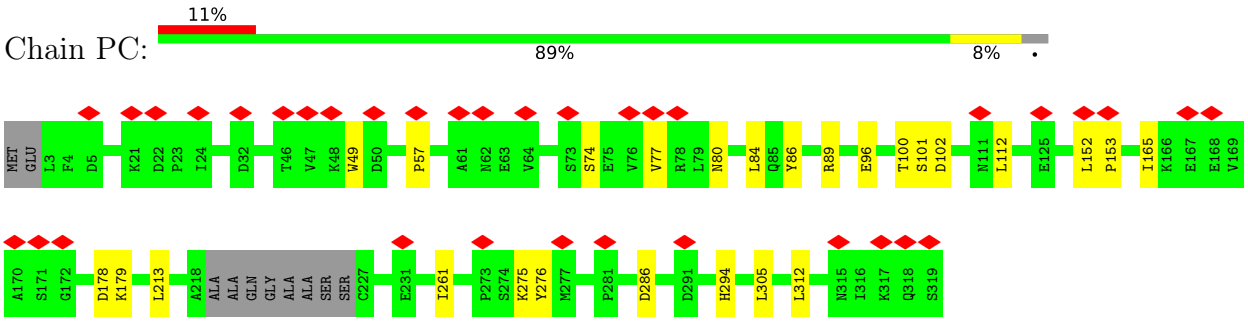
• Molecule 1: Cytosolic protein

Chain PB:



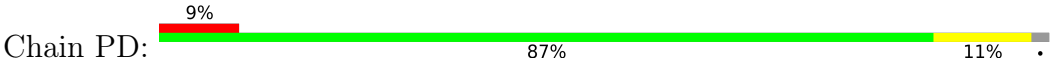
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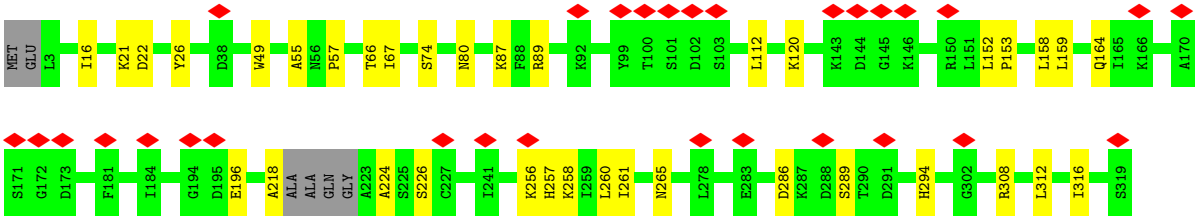
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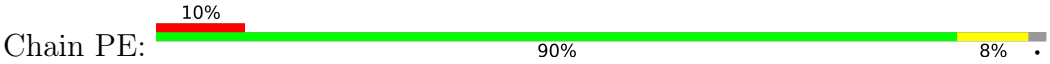
• Molecule 1: Cytosolic protein

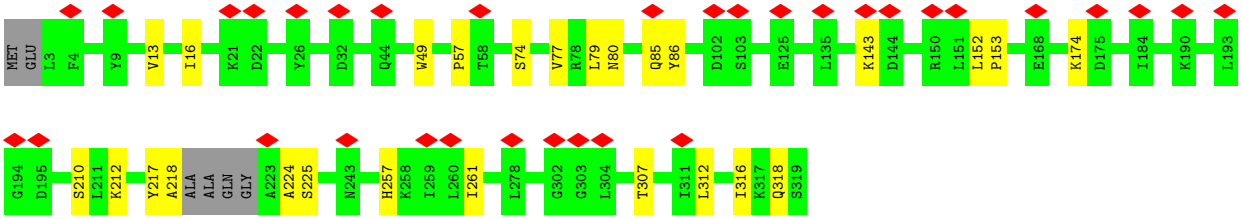
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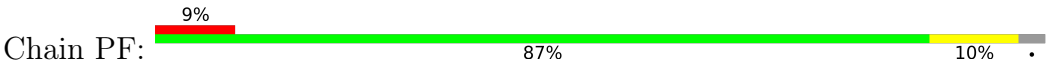


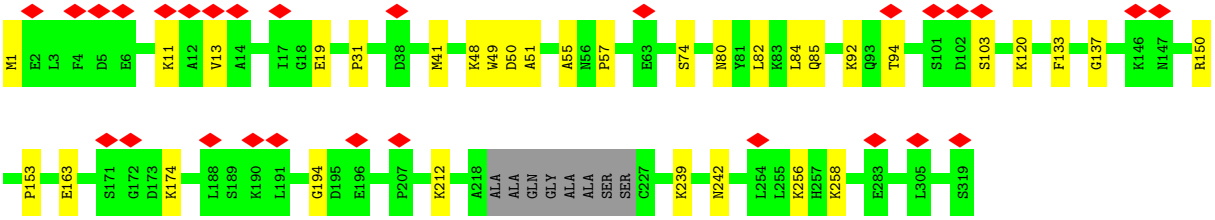
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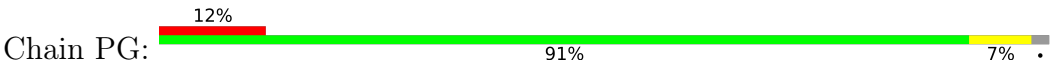


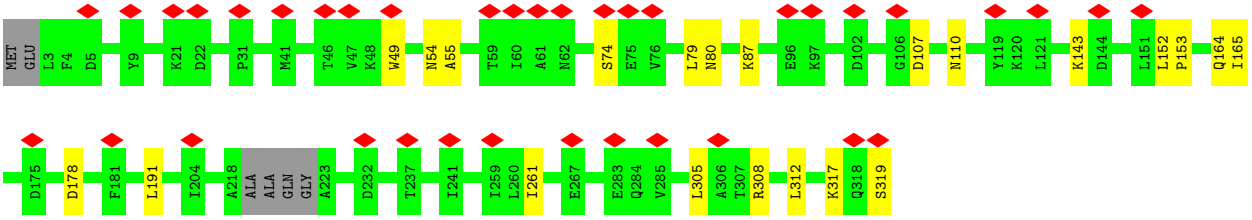
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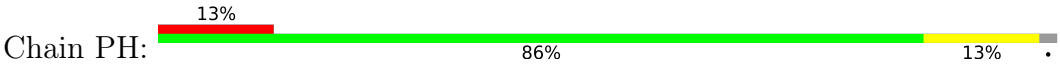


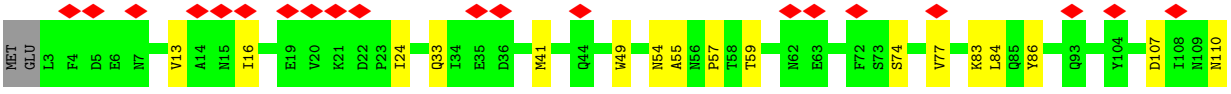
• Molecule 1: Cytosolic protein

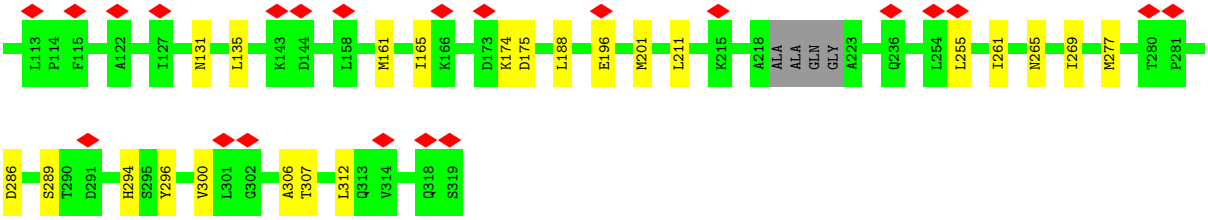




• Molecule 1: Cytosolic protein



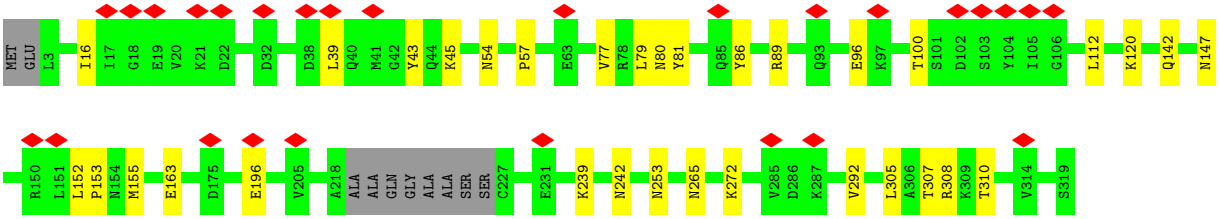




• Molecule 1: Cytosolic protein

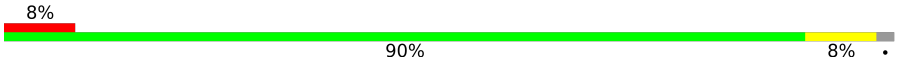
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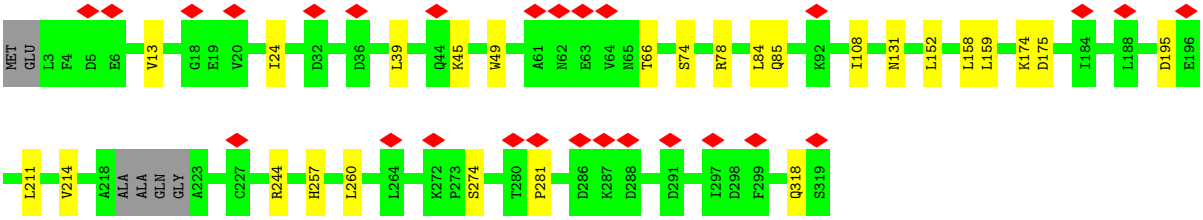




• Molecule 1: Cytosolic protein

Chain PJ:

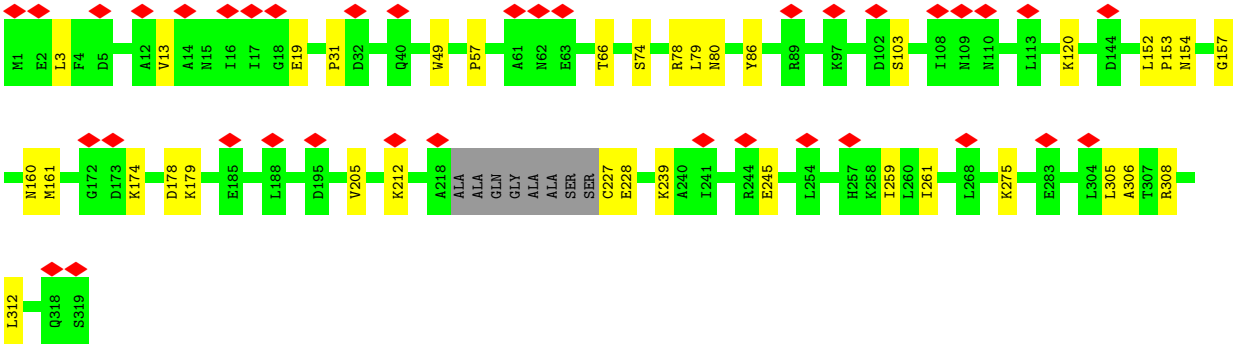




• Molecule 1: Cytosolic protein

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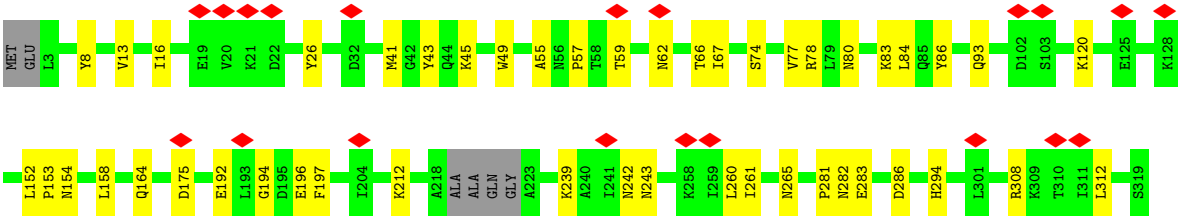




• Molecule 1: Cytosolic protein

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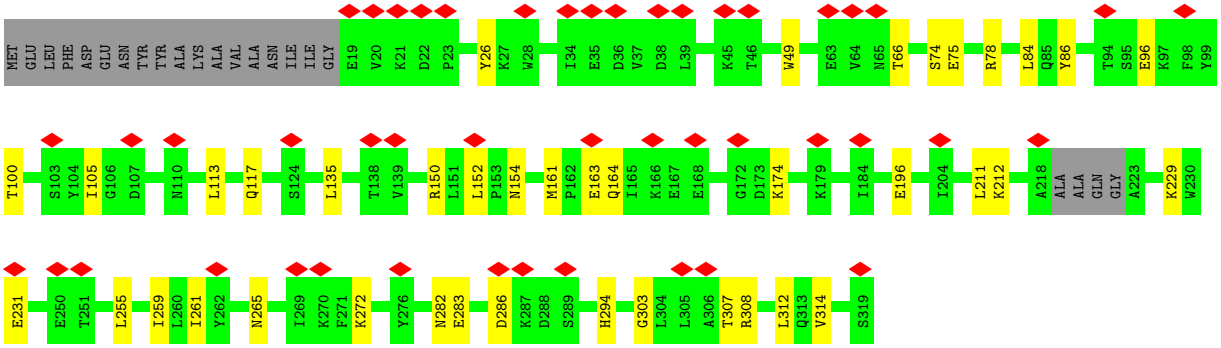




• Molecule 1: Cytosolic protein

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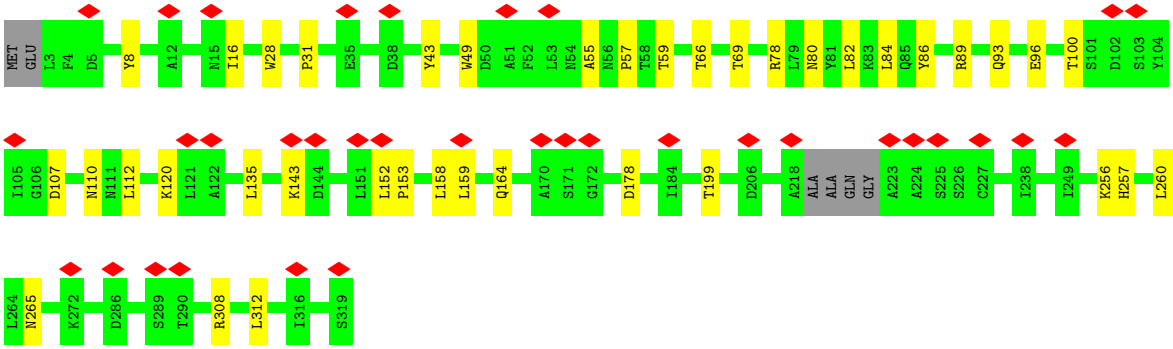




• Molecule 1: Cytosolic protein

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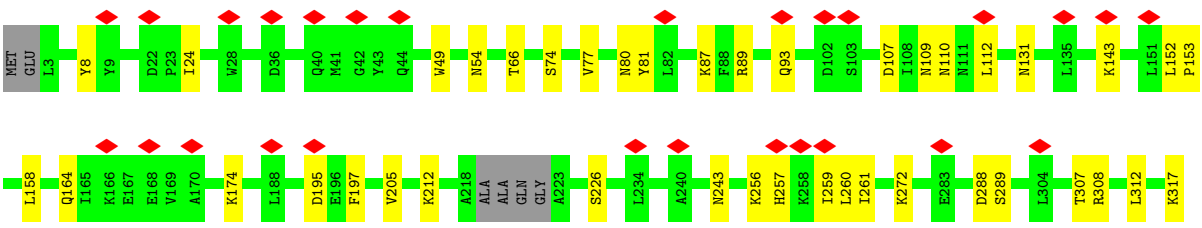




• Molecule 1: Cytosolic protein

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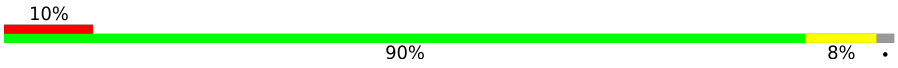


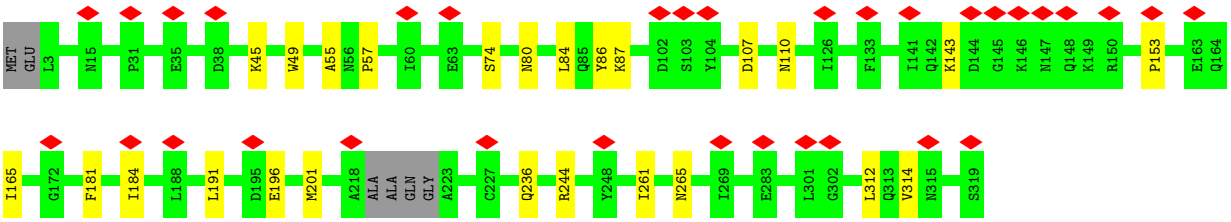




• Molecule 1: Cytosolic protein

Chain PP:

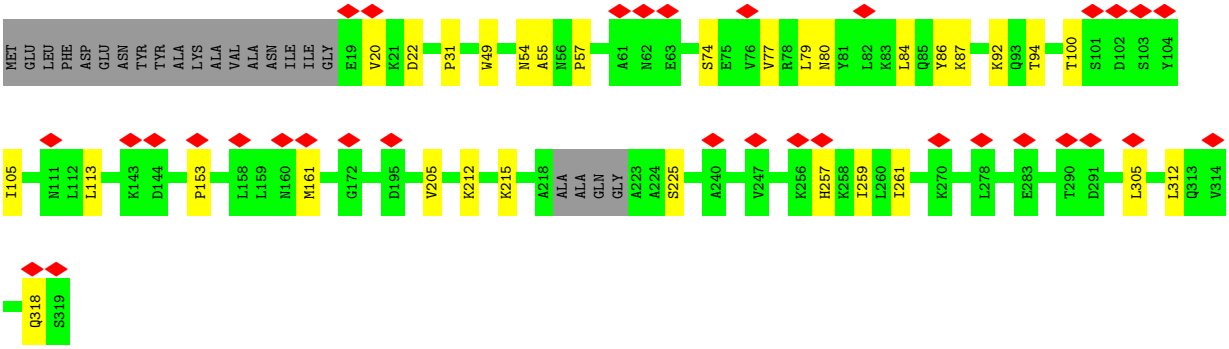




• Molecule 1: Cytosolic protein

Chain PQ:

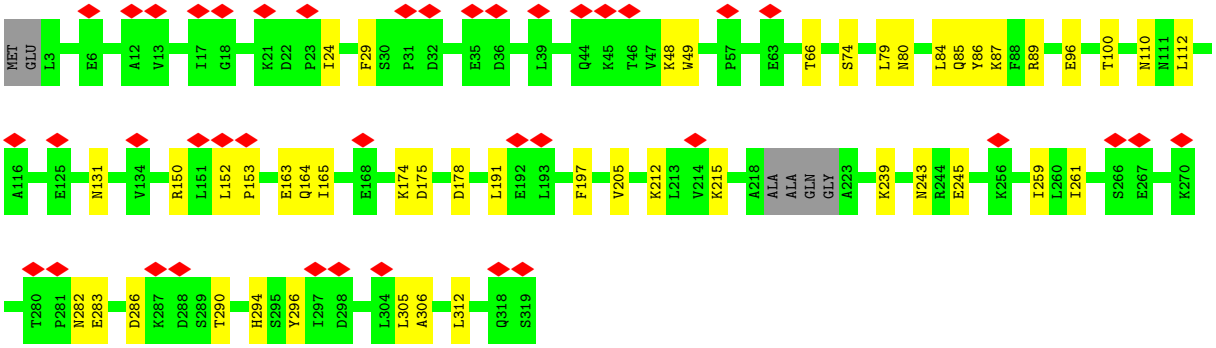




• Molecule 1: Cytosolic protein

Chain PR:

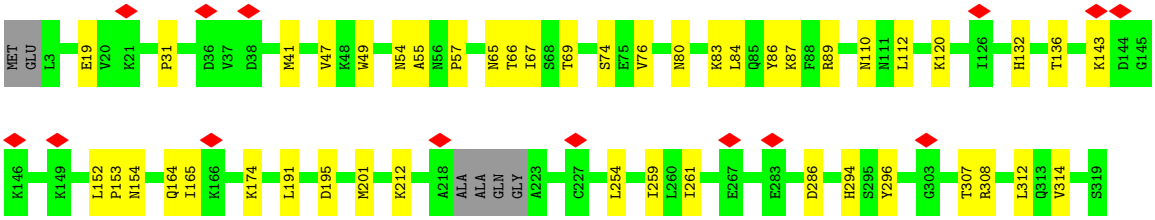




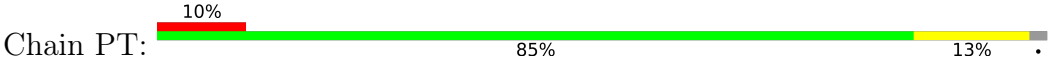
• Molecule 1: Cytosolic protein

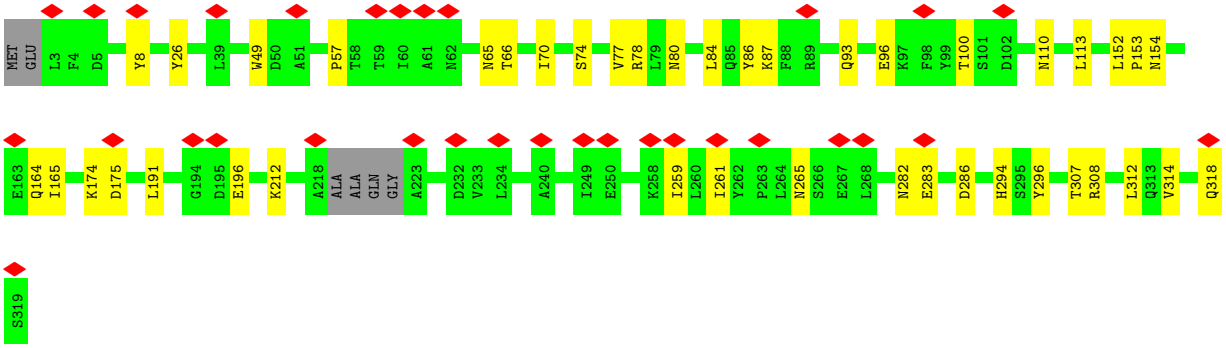
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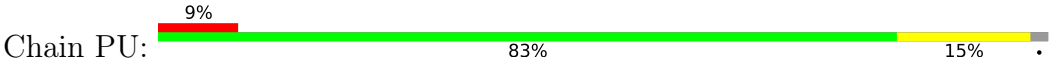


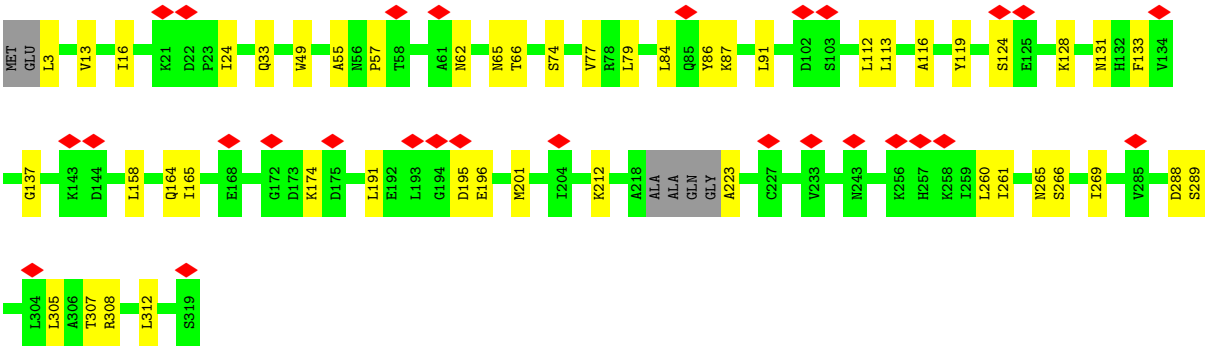
• Molecule 1: Cytosolic protein



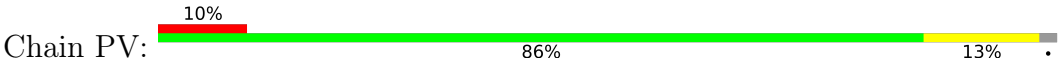


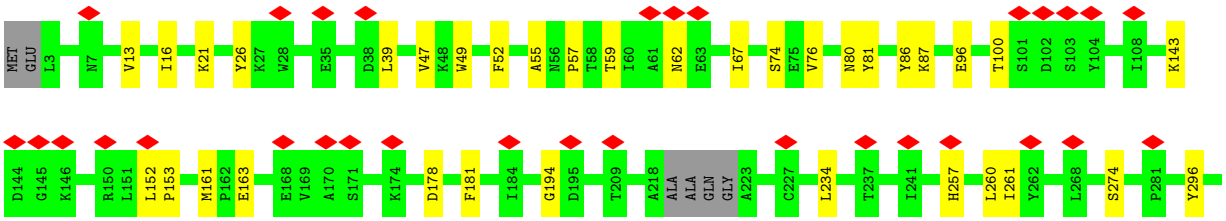
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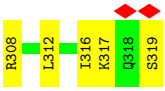




• Molecule 1: Cytosolic protein

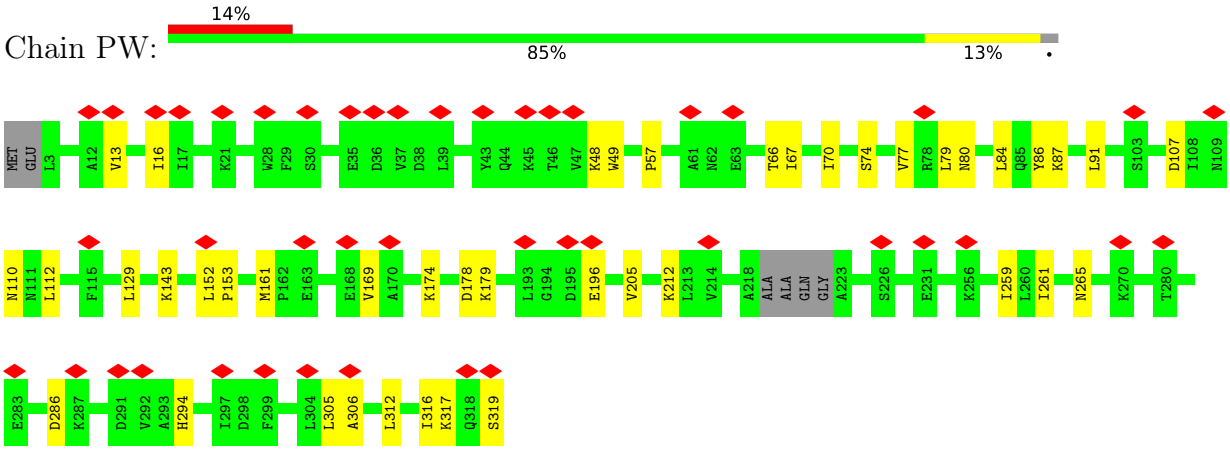






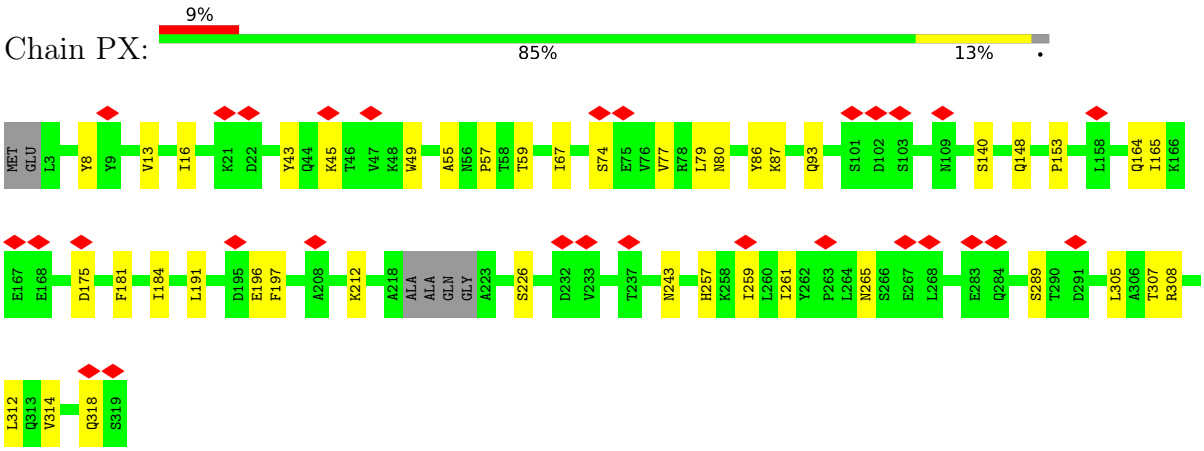
• Molecule 1: Cytosolic protein

Chain PW:



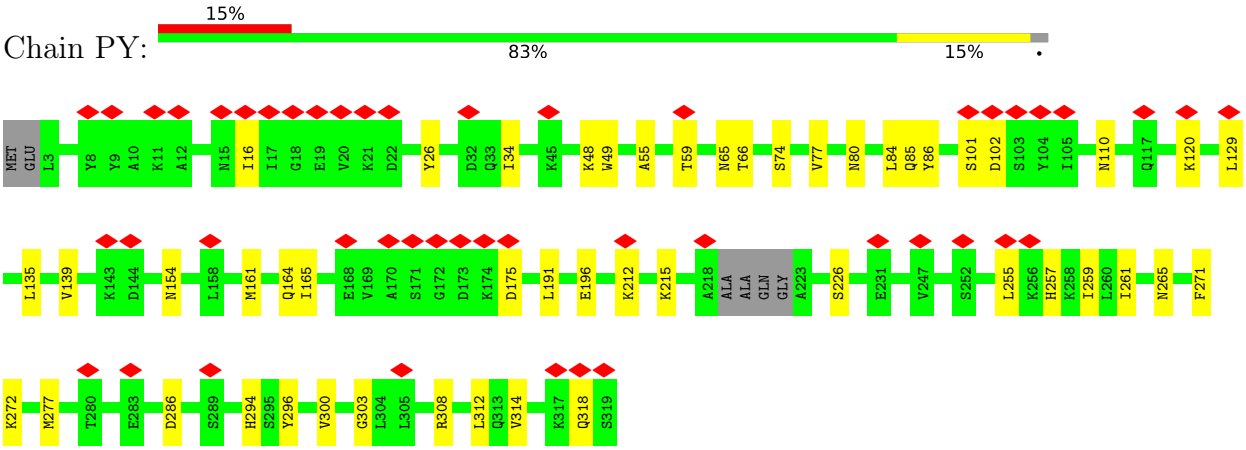
• Molecule 1: Cytosolic protein

Chain PX:



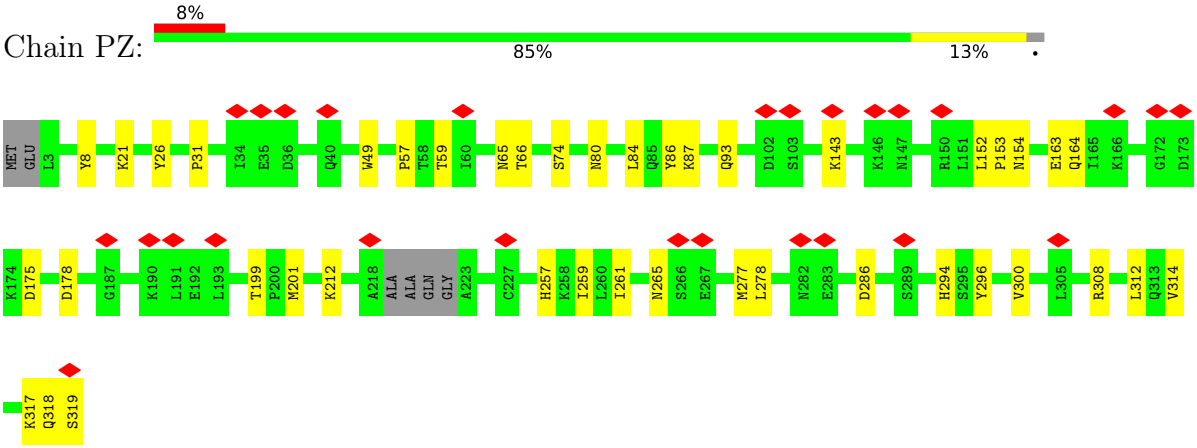
• Molecule 1: Cytosolic protein

Chain PY:



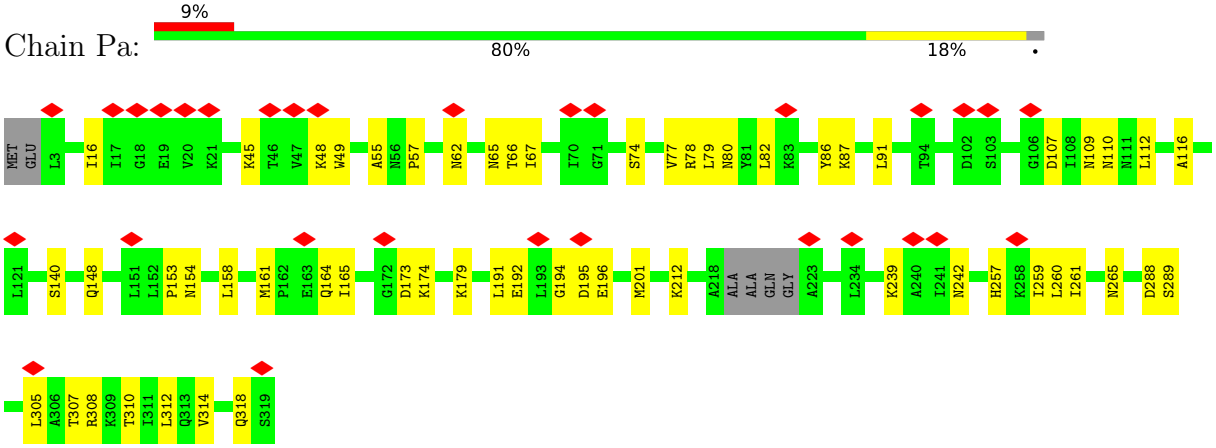
• Molecule 1: Cytosolic protein

Chain PZ:



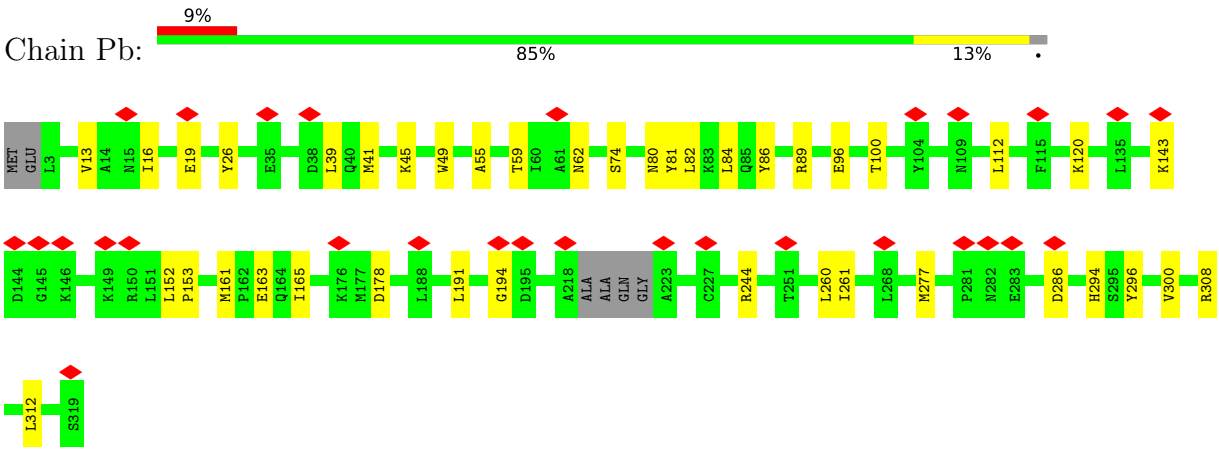
• Molecule 1: Cytosolic protein

Chain Pa:



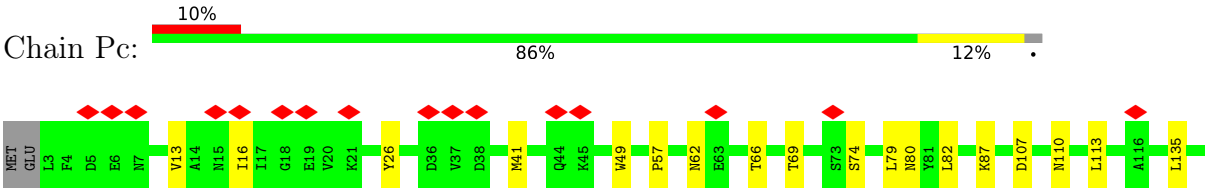
• Molecule 1: Cytosolic protein

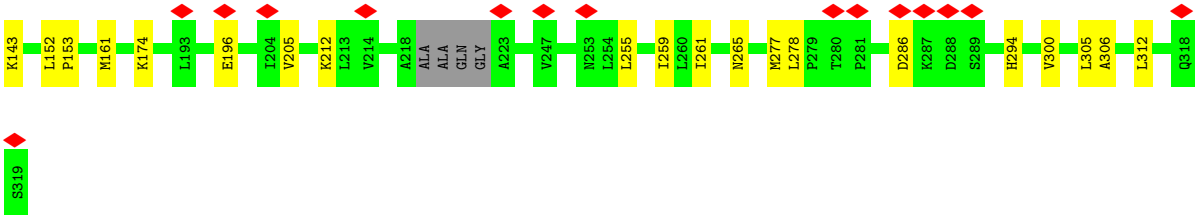
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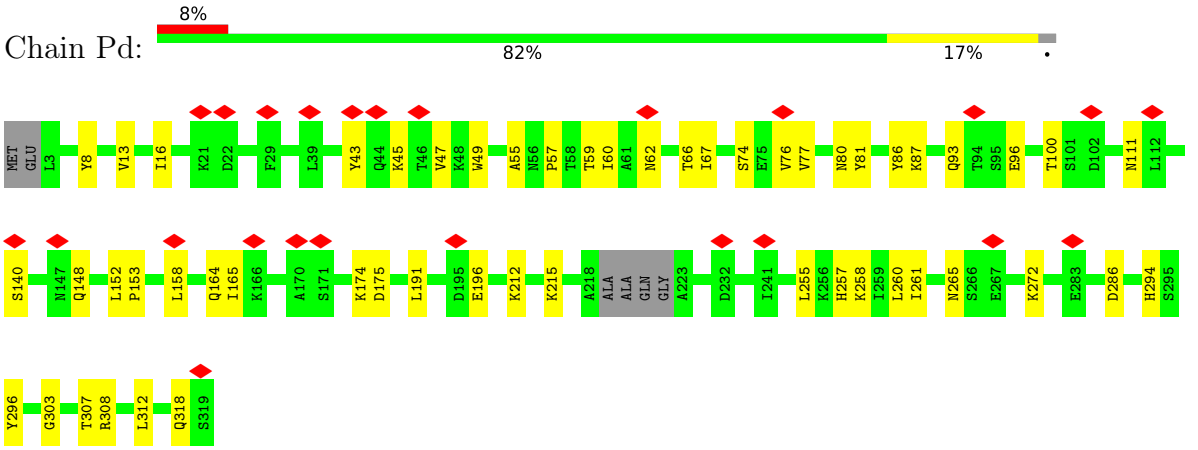
• Molecule 1: Cytosolic protein

Chain Pc:

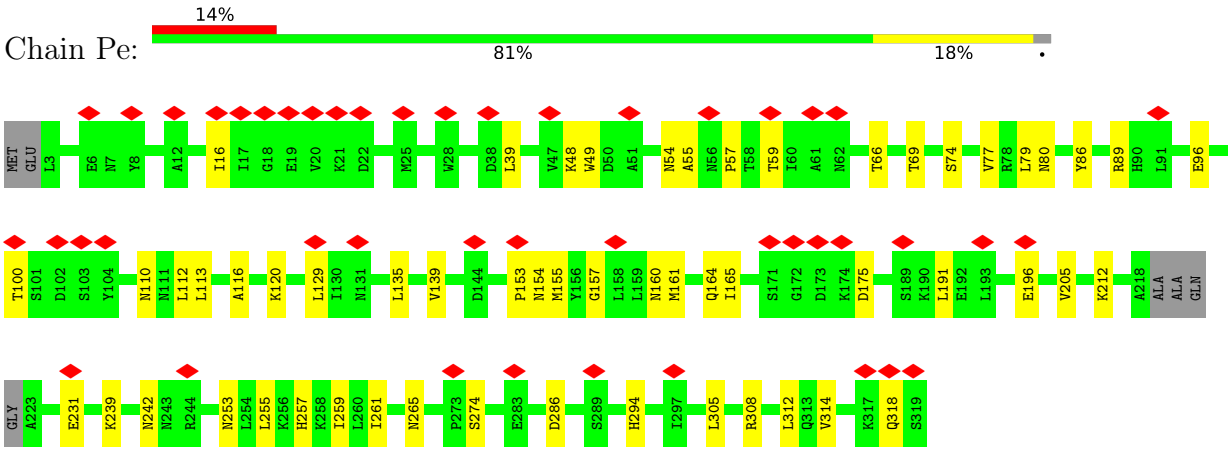




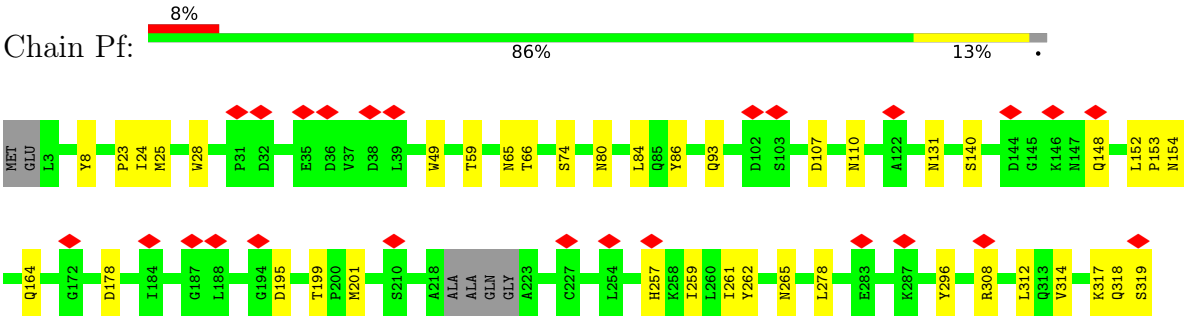
• Molecule 1: Cytosolic protein



• Molecule 1: Cytosolic protein

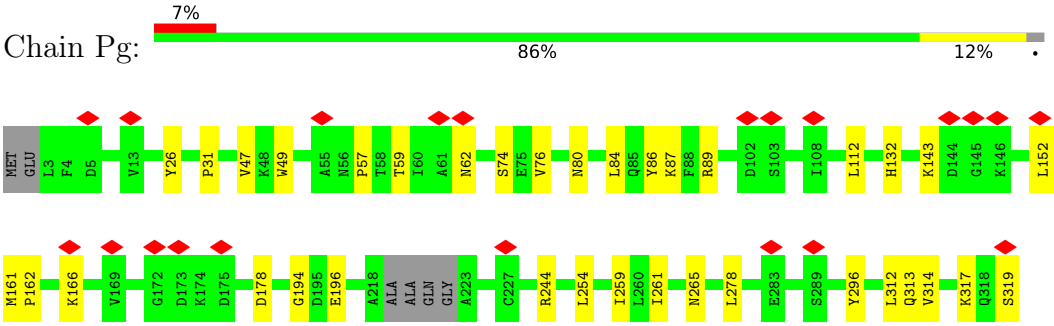


• Molecule 1: Cytosolic protein



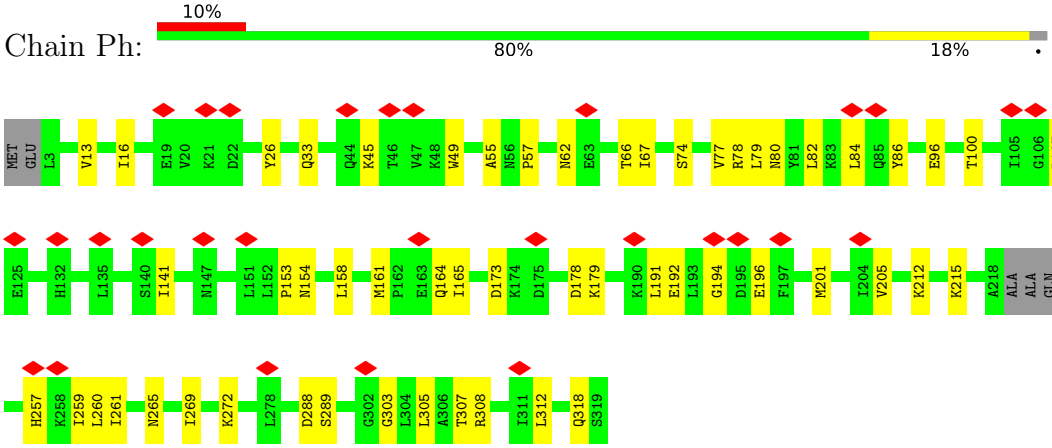
• Molecule 1: Cytosolic protein

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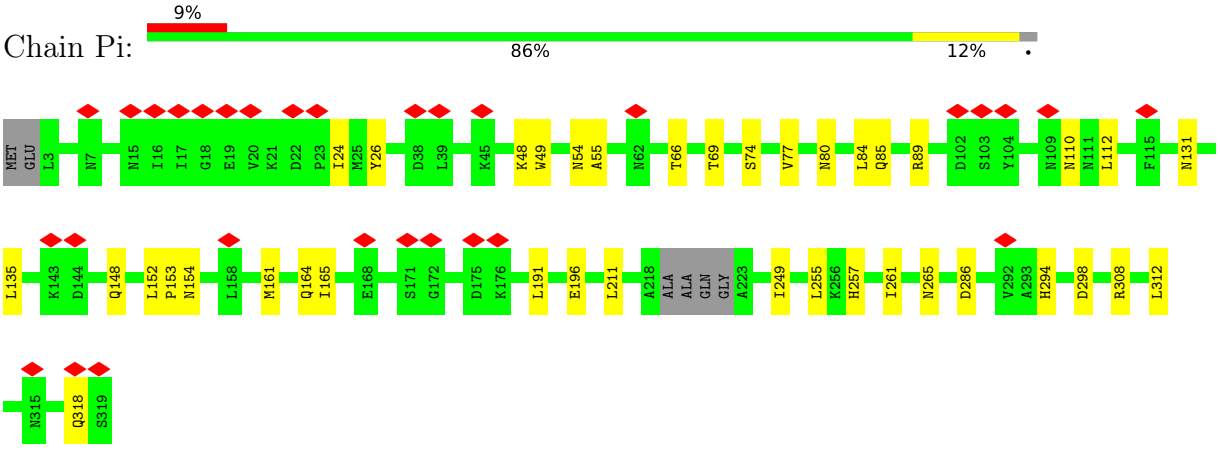
• Molecule 1: Cytosolic protein

Chain Ph:



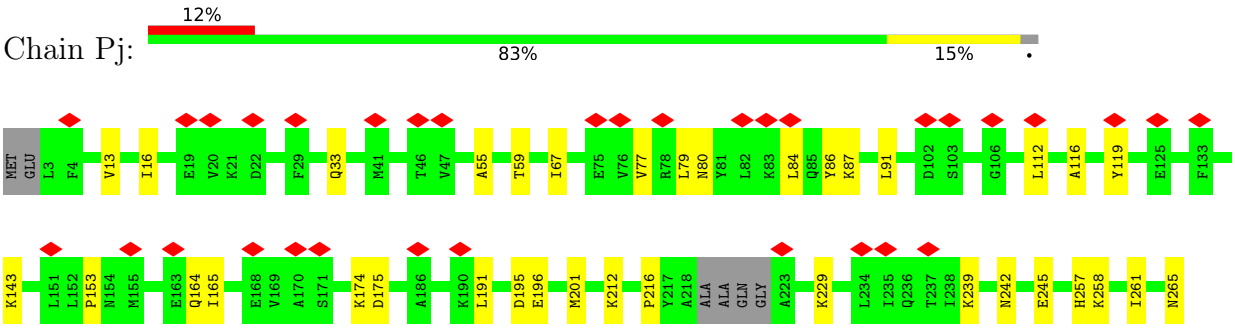
• Molecule 1: Cytosolic protein

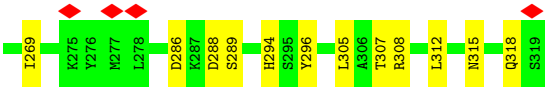
Chain Pi:



• Molecule 1: Cytosolic protein

Chain Pj:

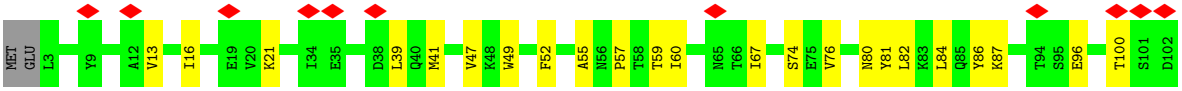


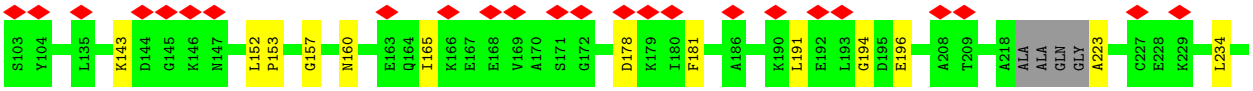


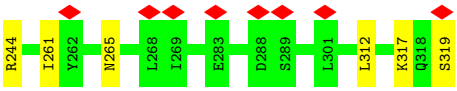
• Molecule 1: Cytosolic protein

Chain Pk:





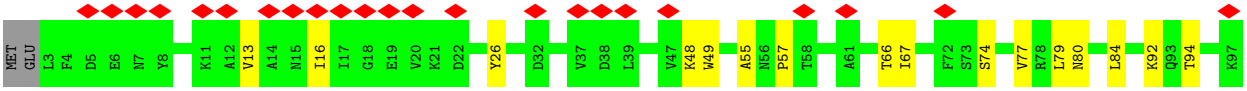


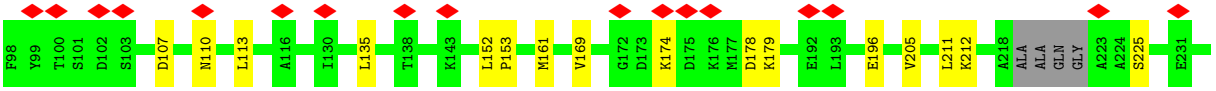


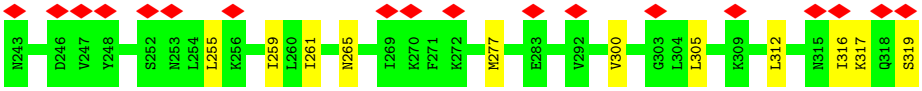
• Molecule 1: Cytosolic protein

Chain Pl:





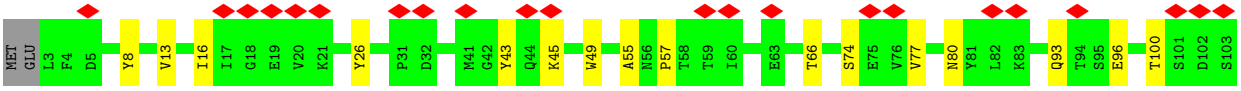


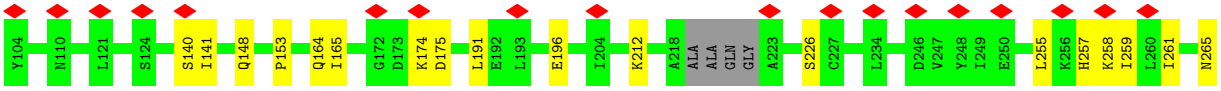


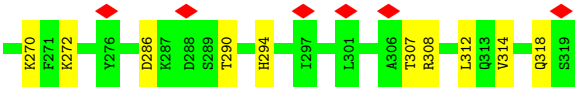
• Molecule 1: Cytosolic protein

Chain Pm:



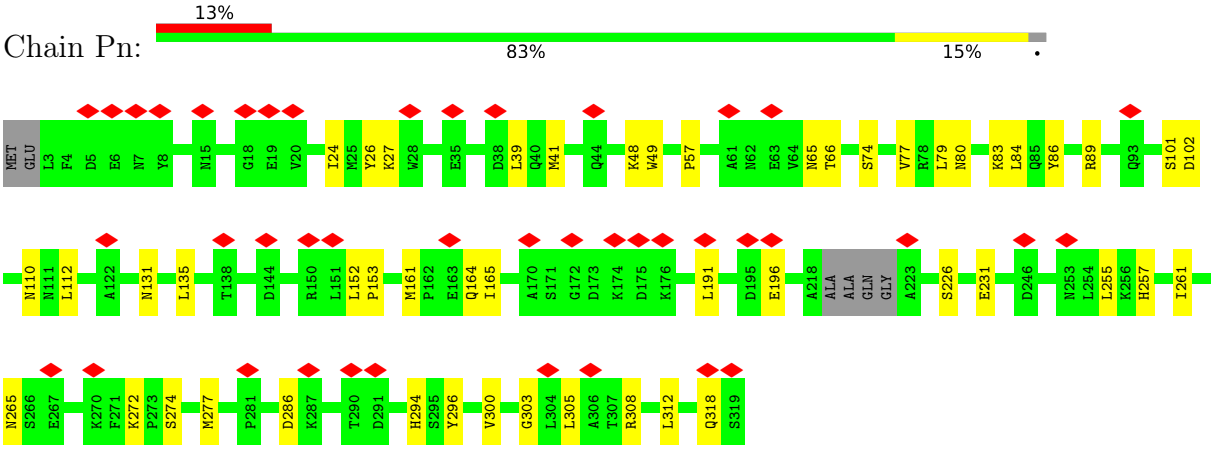






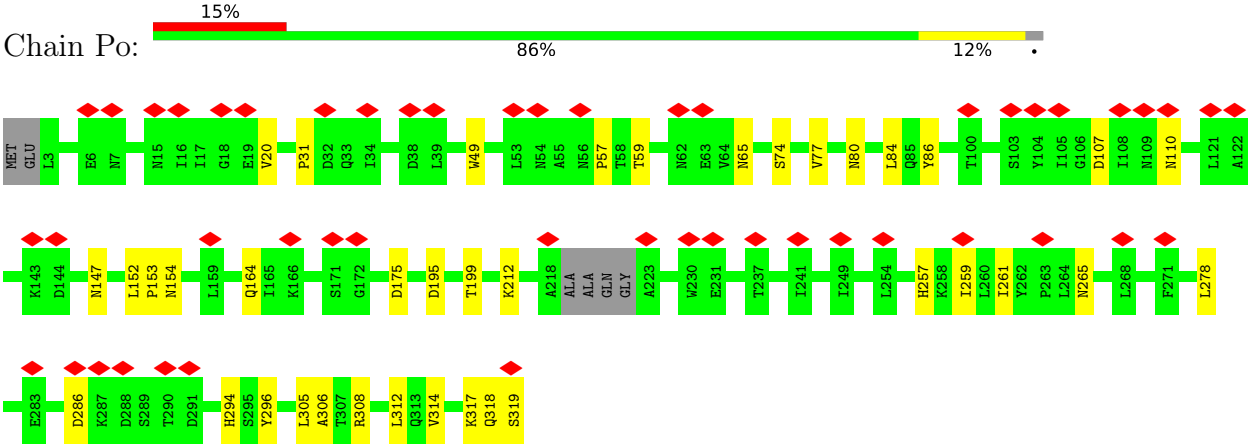
• Molecule 1: Cytosolic protein

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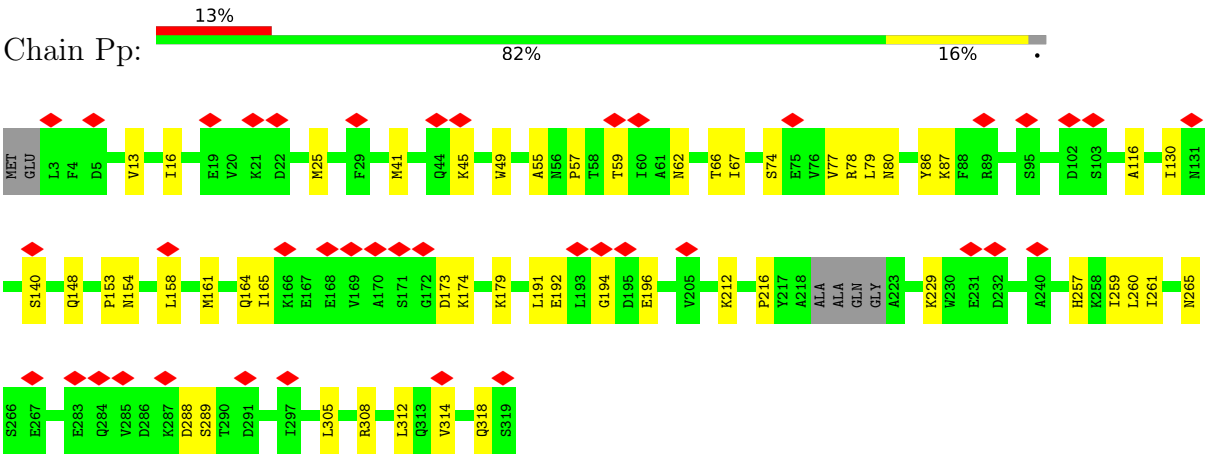
• Molecule 1: Cytosolic protein

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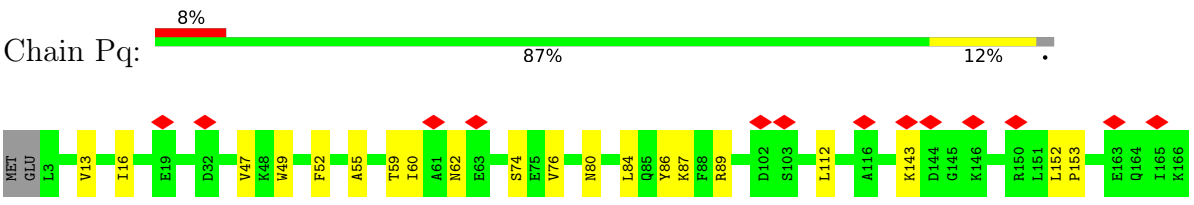
• Molecule 1: Cytosolic protein

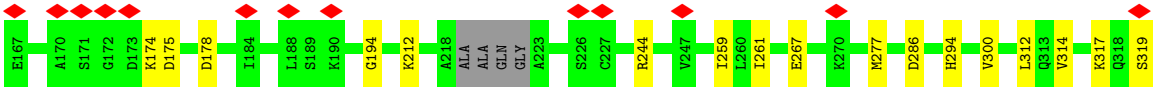
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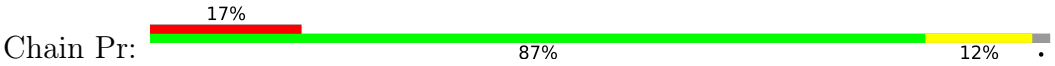
• Molecule 1: Cytosolic protein

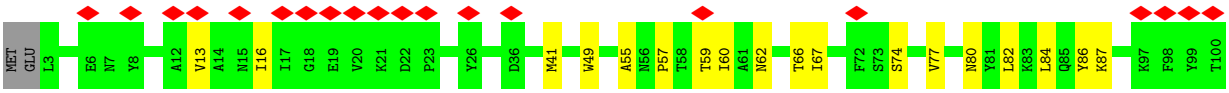
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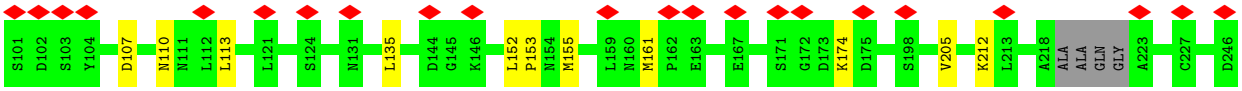


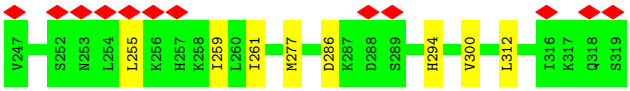


• Molecule 1: Cytosolic protein

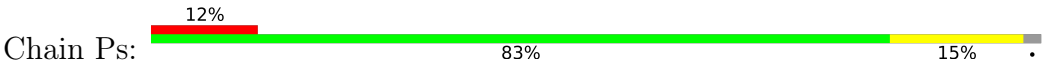


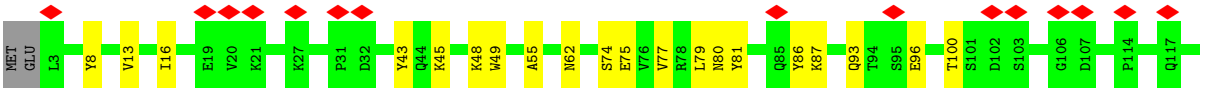


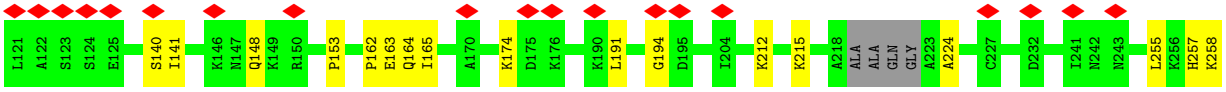


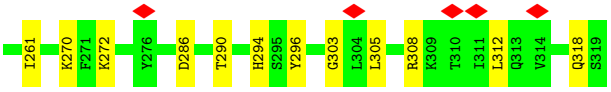


• Molecule 1: Cytosolic protein

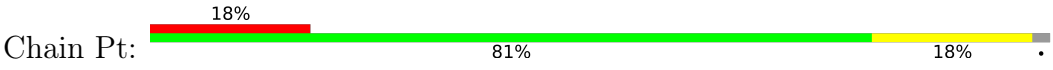


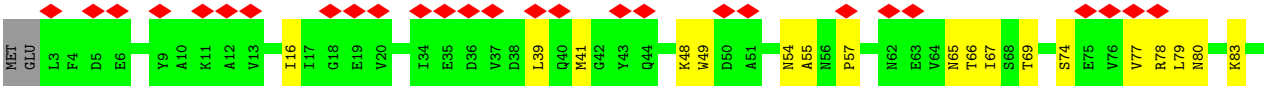


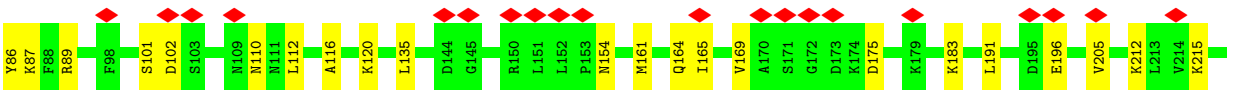


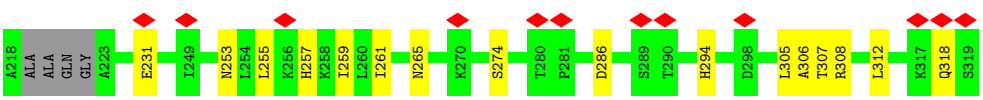


• Molecule 1: Cytosolic protein



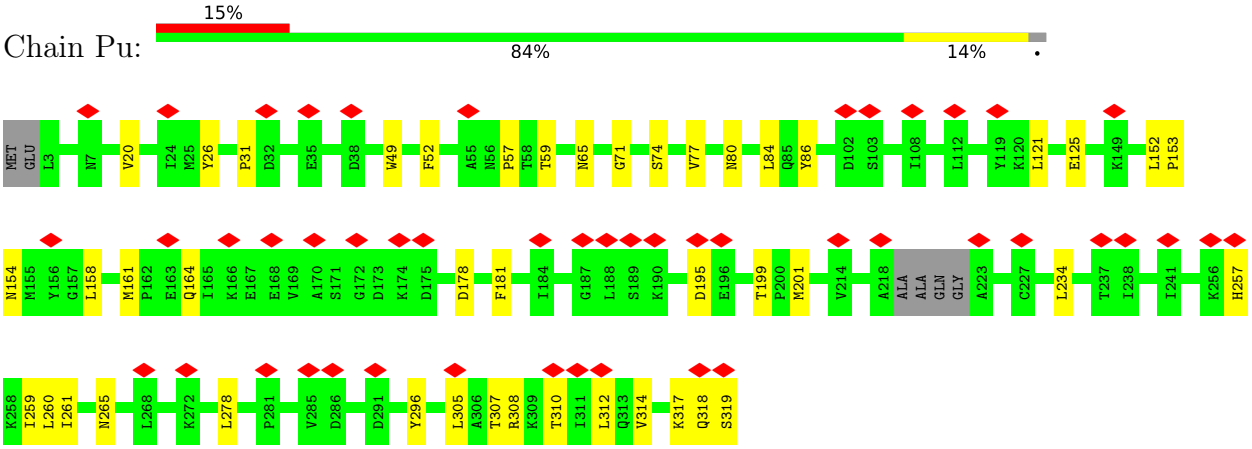






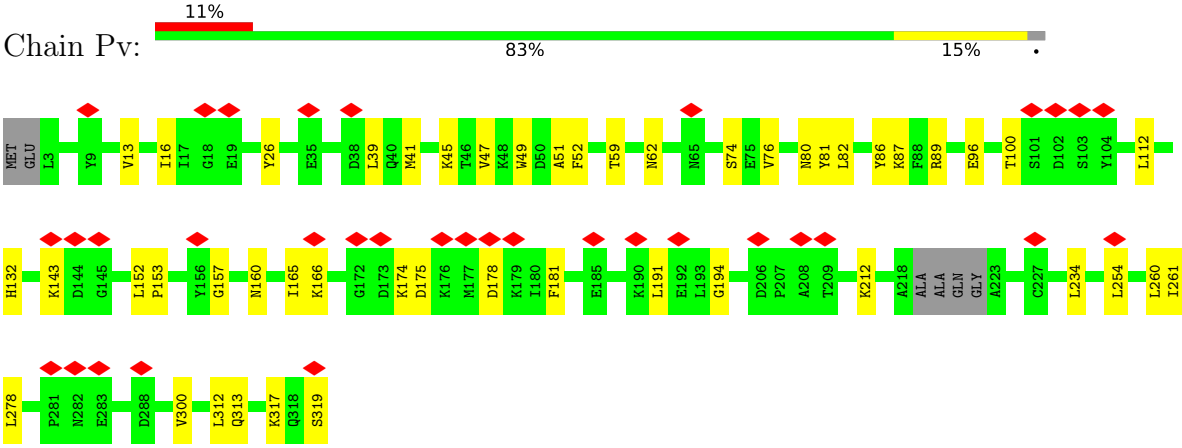
• Molecule 1: Cytosolic protein

Chain Pu:



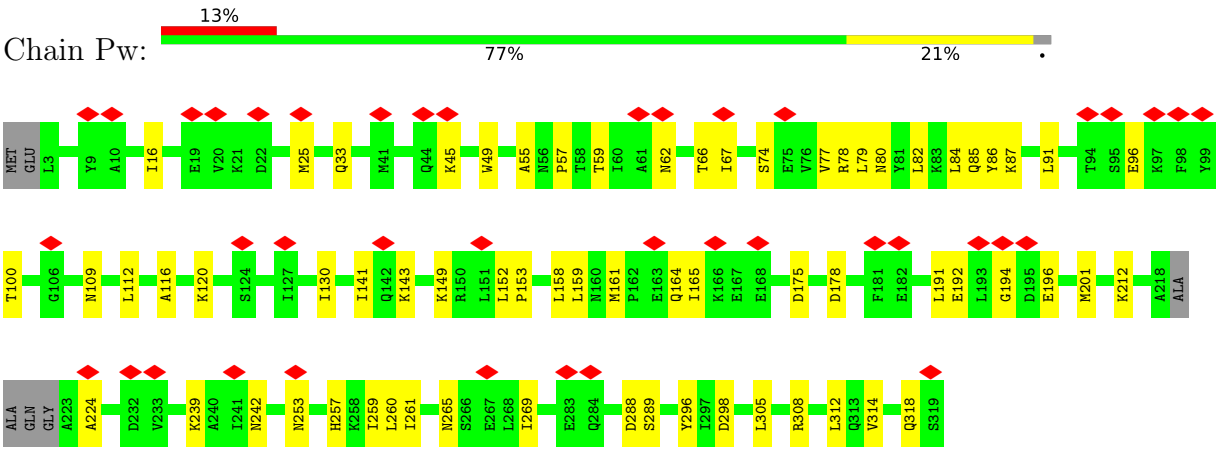
• Molecule 1: Cytosolic protein

Chain Pv:



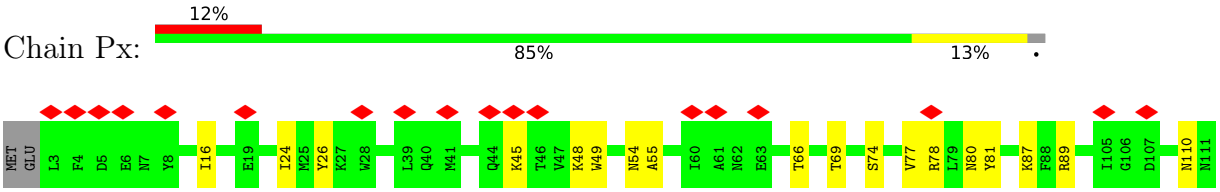
• Molecule 1: Cytosolic protein

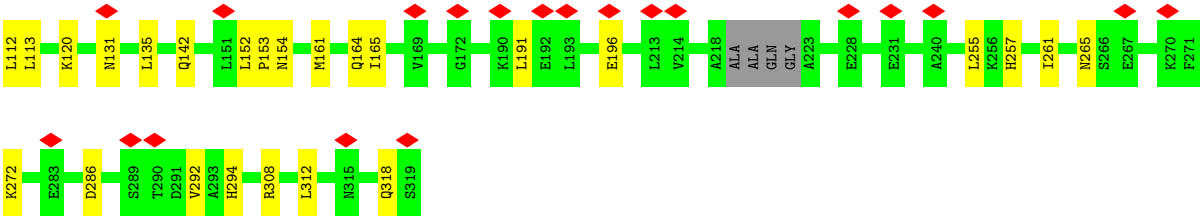
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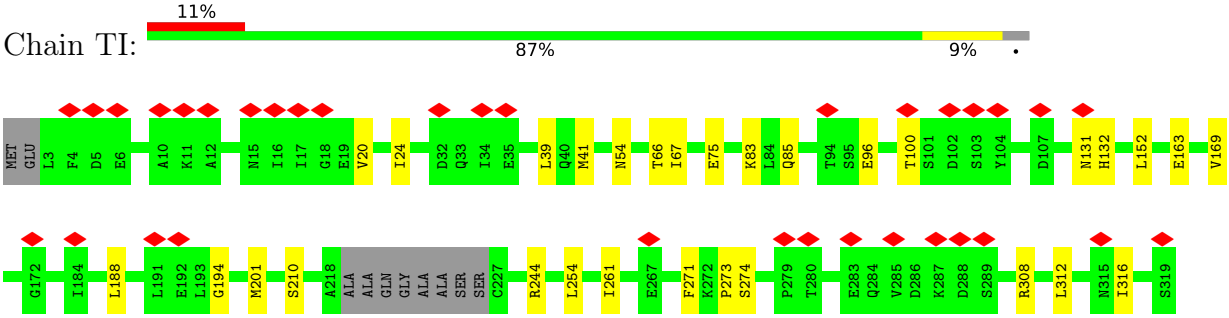
• Molecule 1: Cytosolic protein

Chain Px:

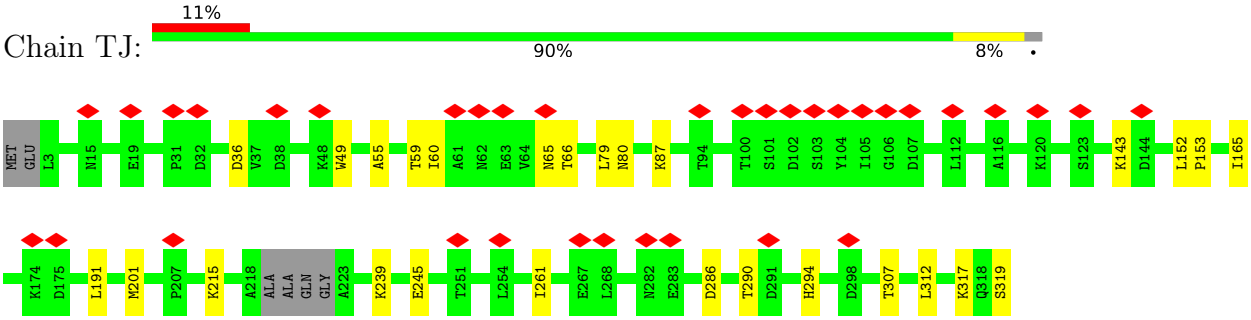




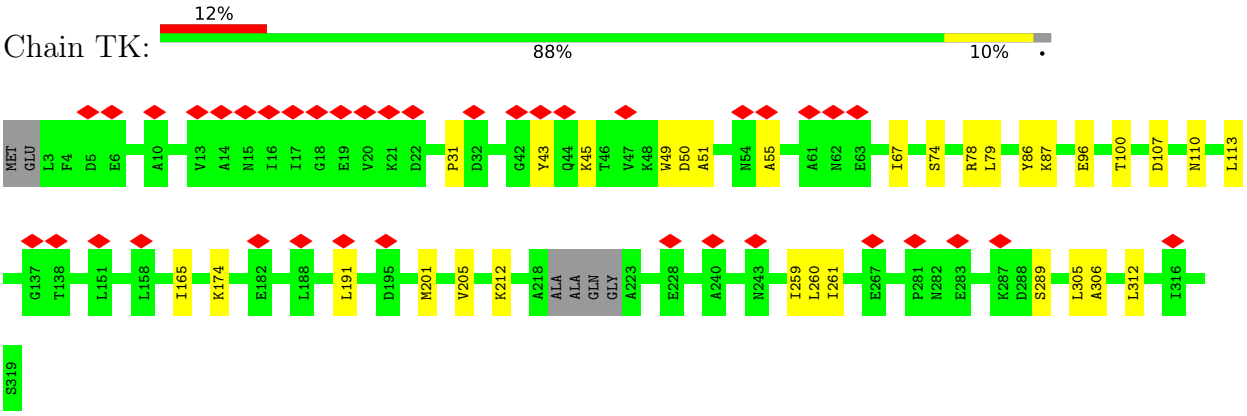
• Molecule 1: Cytosolic protein



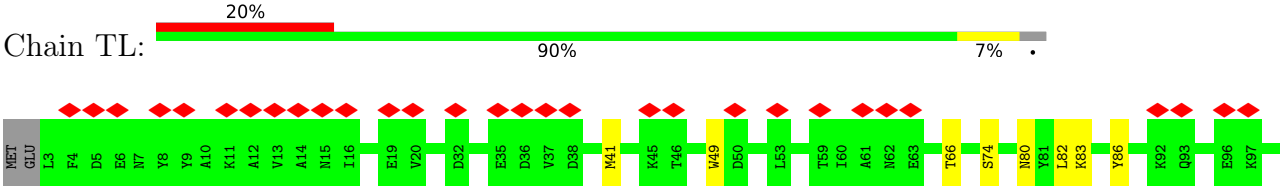
• Molecule 1: Cytosolic protein

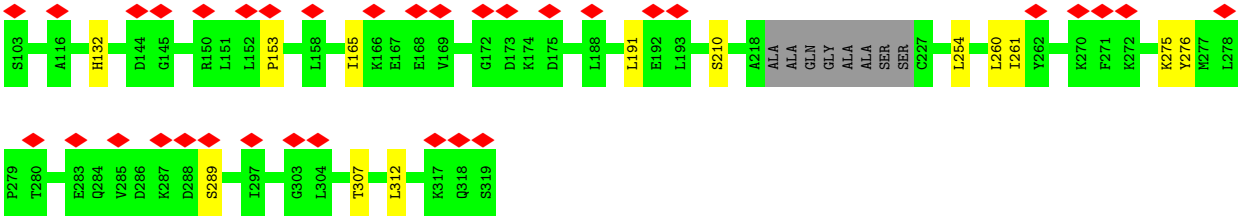


• Molecule 1: Cytosolic protein



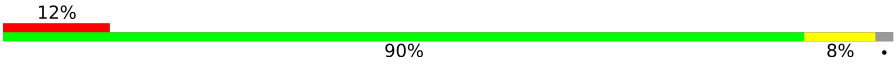
• Molecule 1: Cytosolic protein

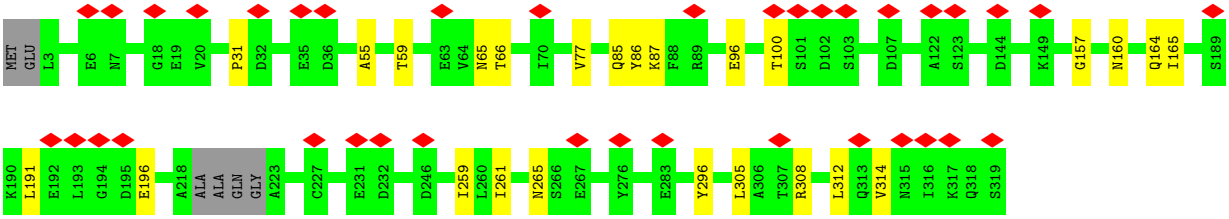




• Molecule 1: Cytosolic protein

Chain TM:

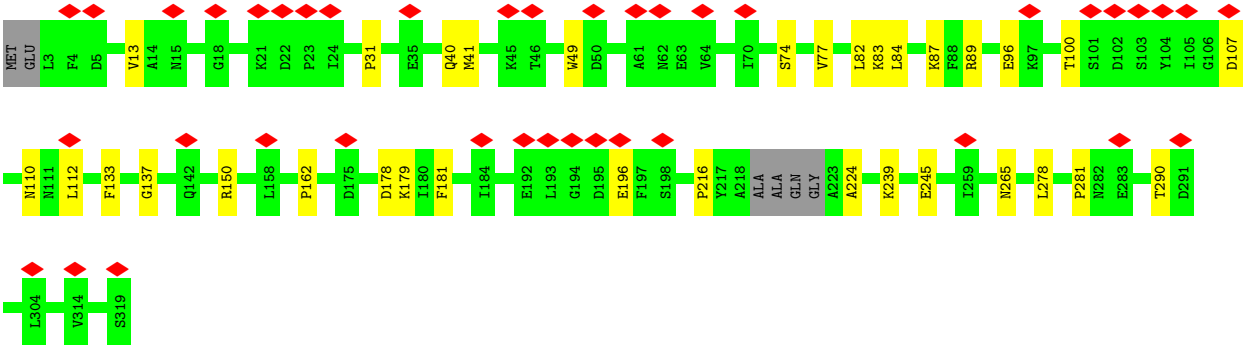




• Molecule 1: Cytosolic protein

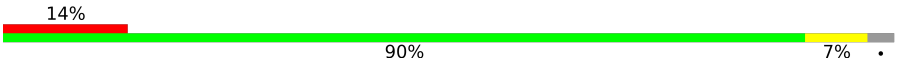
Chain TN:

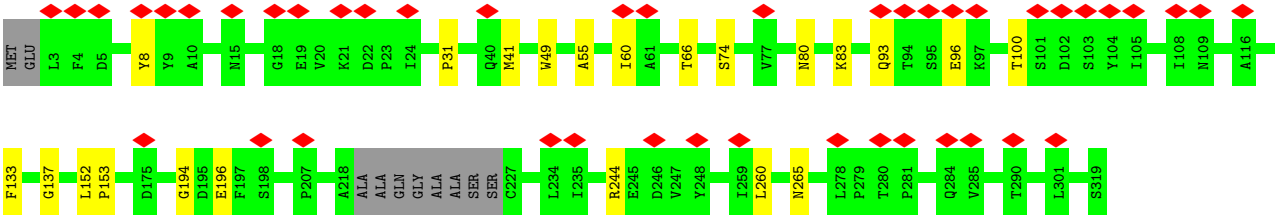




• Molecule 1: Cytosolic protein

Chain TO:

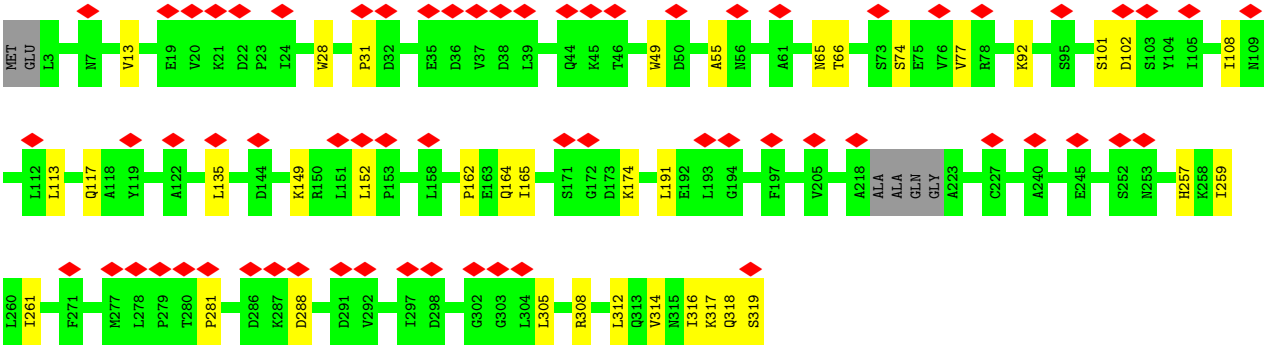




• Molecule 1: Cytosolic protein

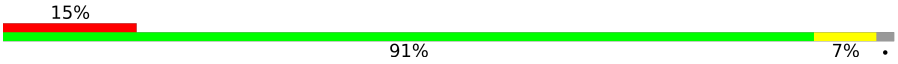
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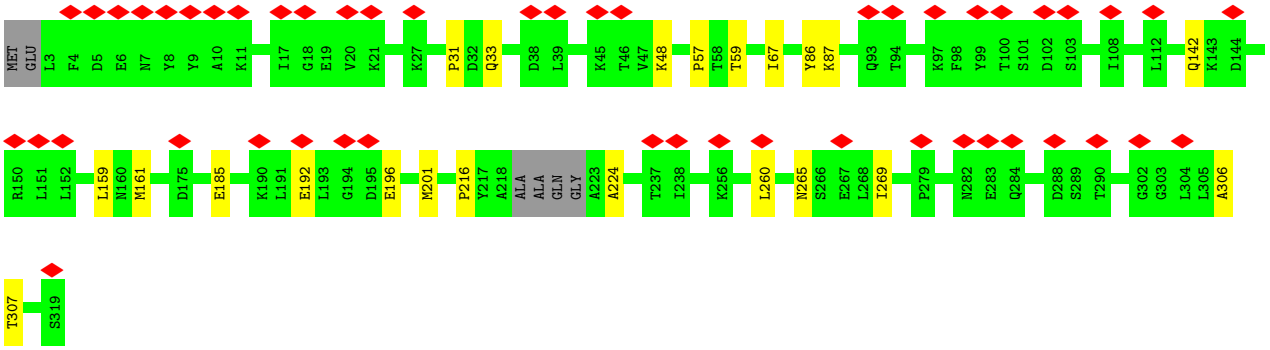




• Molecule 1: Cytosolic protein

Chain TQ:

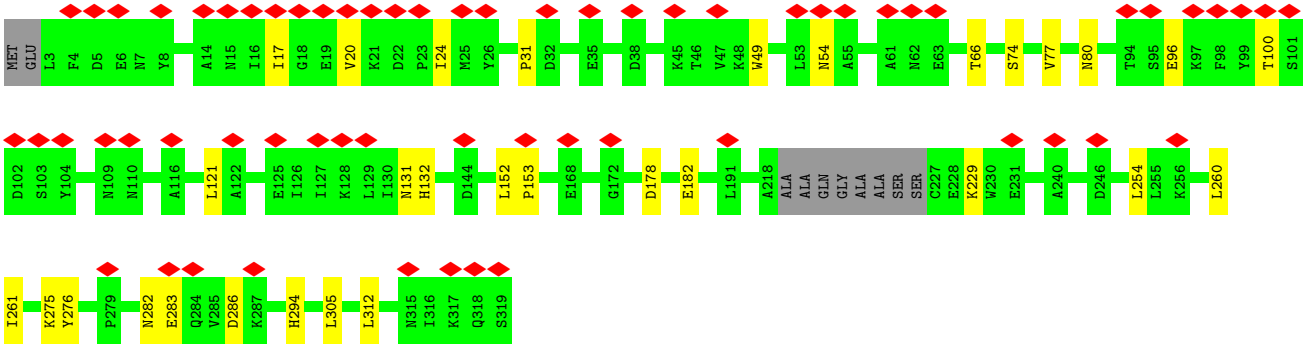




• Molecule 1: Cytosolic protein

Chain TR:

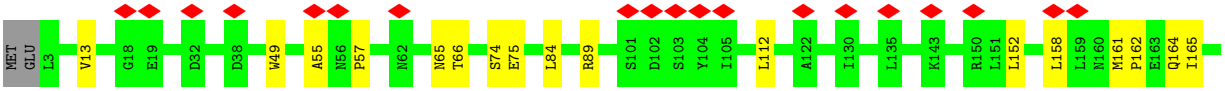


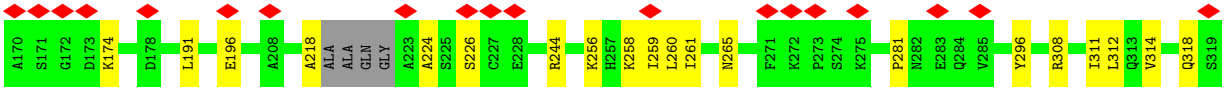


• Molecule 1: Cytosolic protein

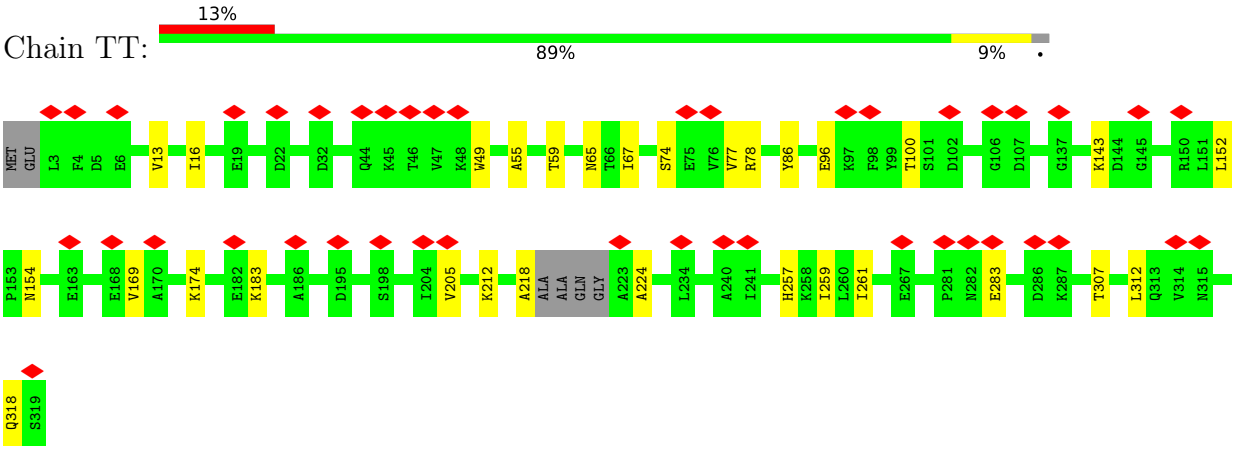
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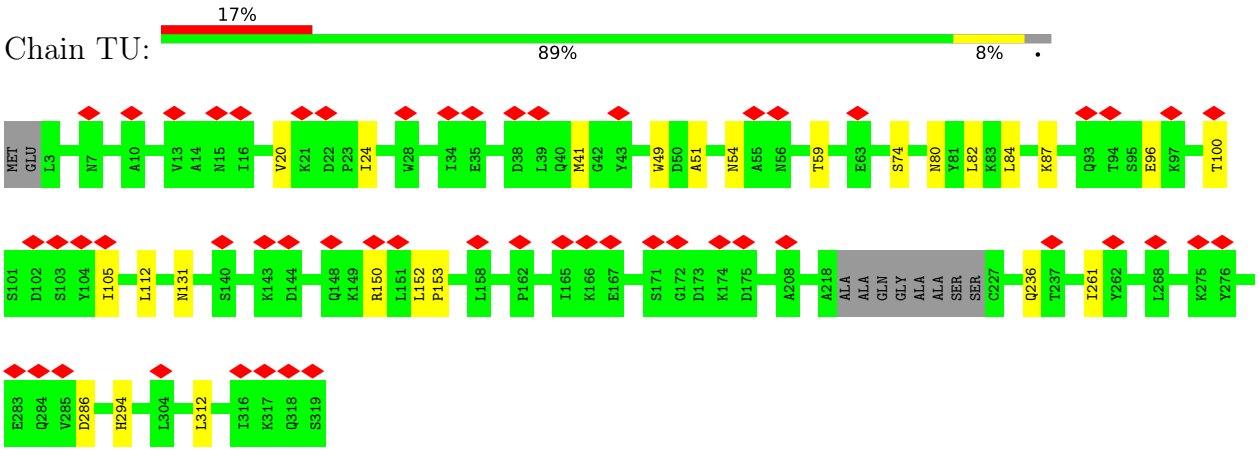




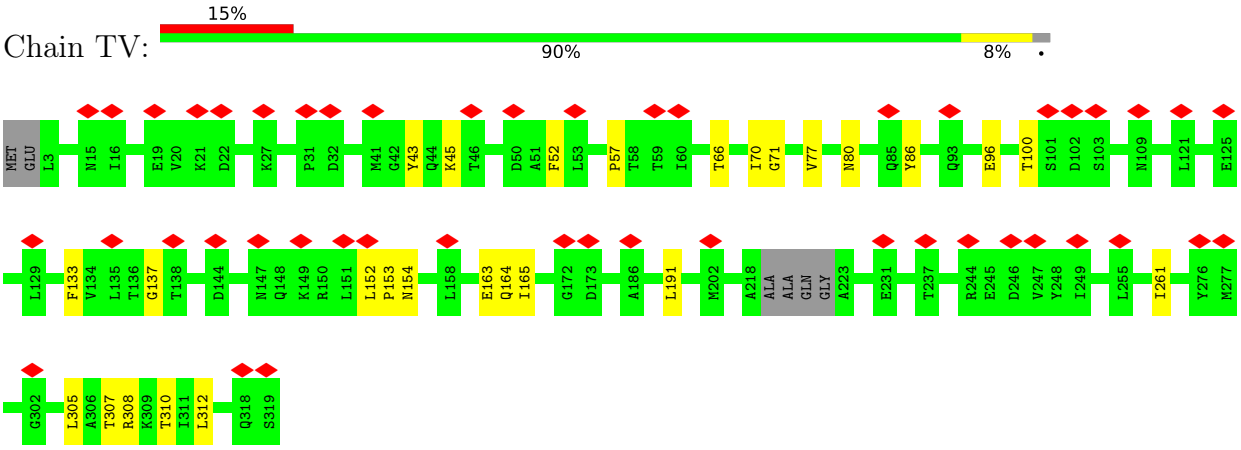
• Molecule 1: Cytosolic protein



• Molecule 1: Cytosolic protein

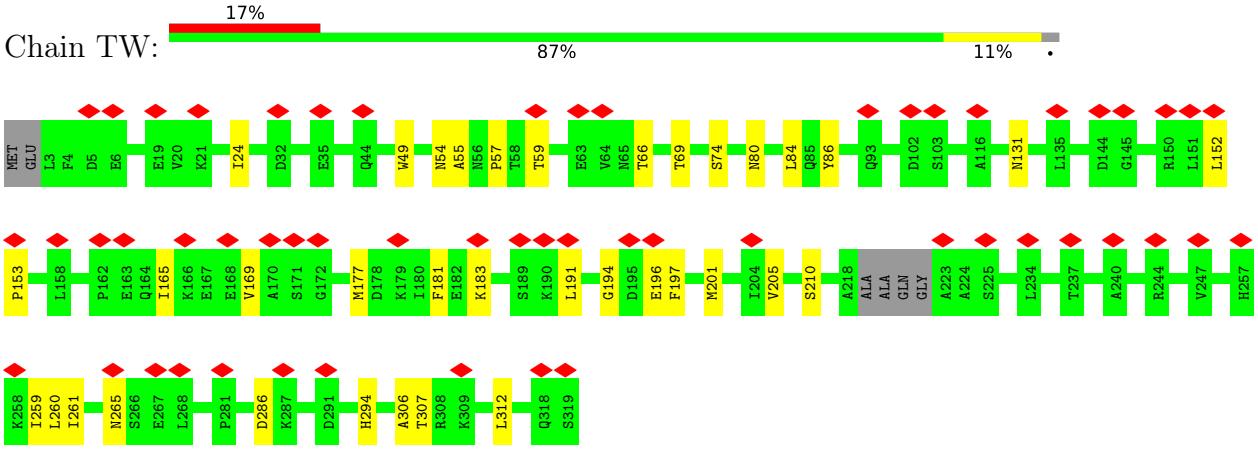


• Molecule 1: Cytosolic protein



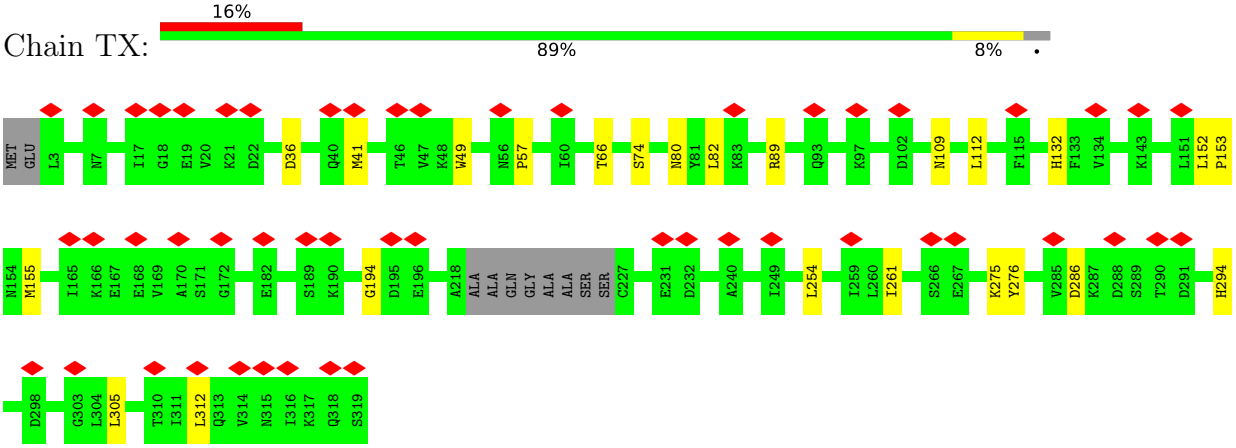
• Molecule 1: Cytosolic protein

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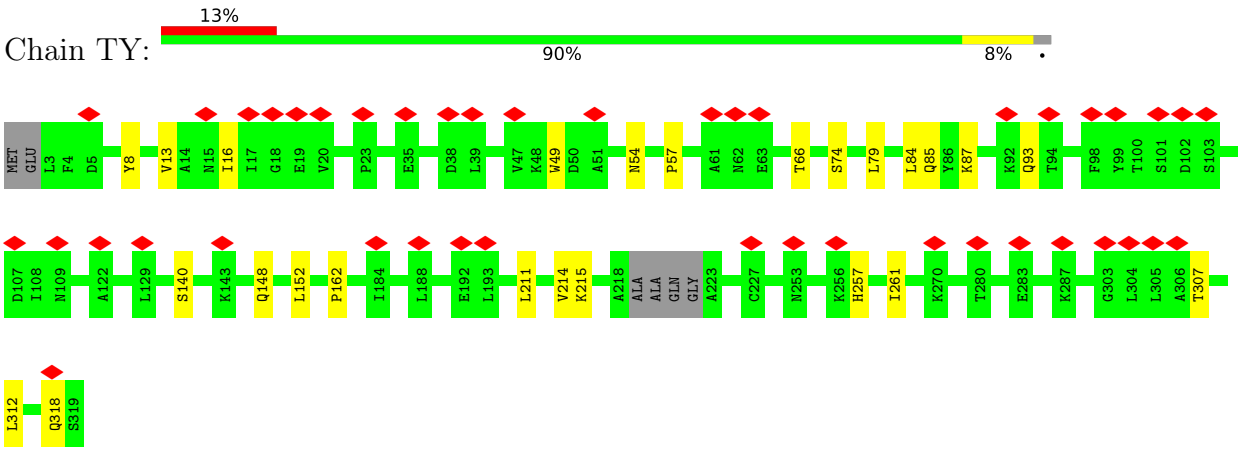
• Molecule 1: Cytosolic protein

Chain TX:



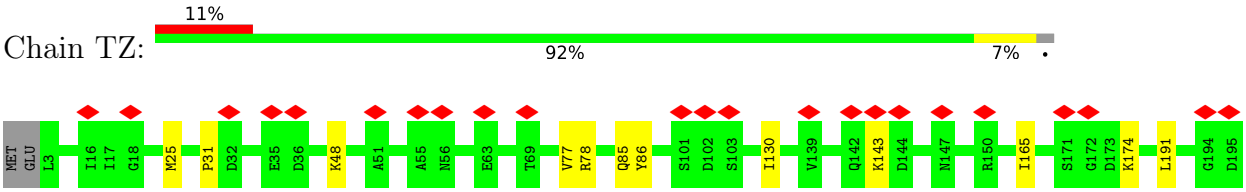
• Molecule 1: Cytosolic protein

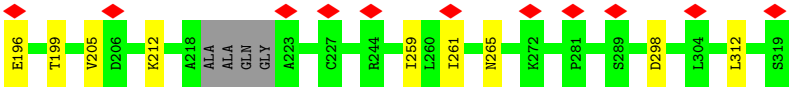
Chain TY:



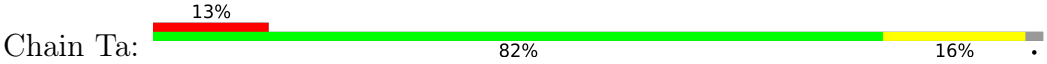
• Molecule 1: Cytosolic protein

Chain TZ:

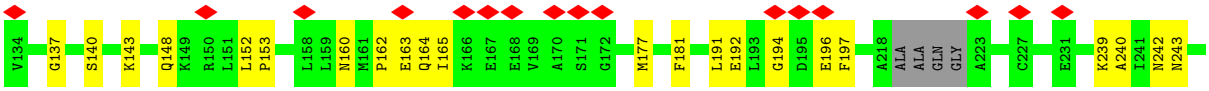


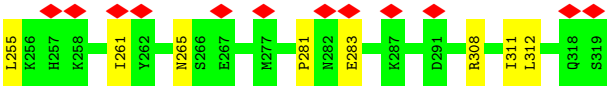


• Molecule 1: Cytosolic protein

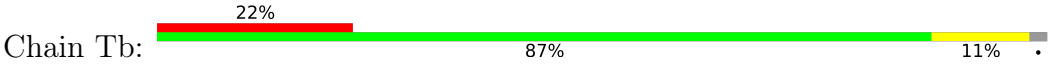


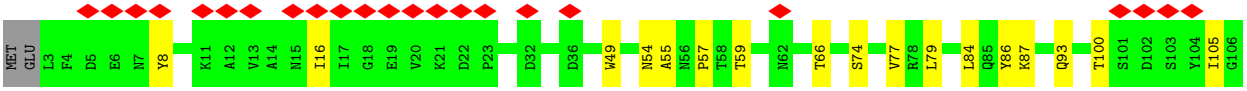


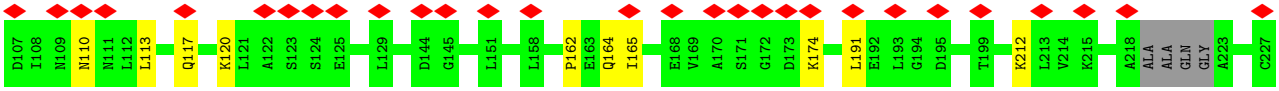


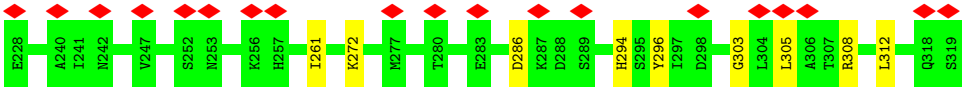


• Molecule 1: Cytosolic protein

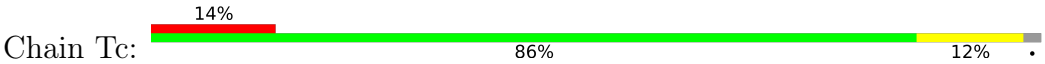


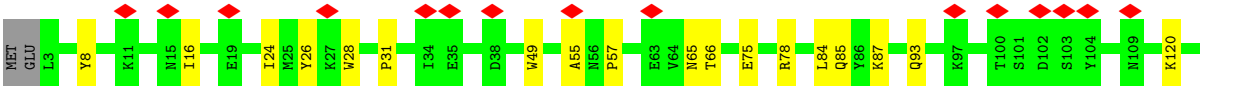


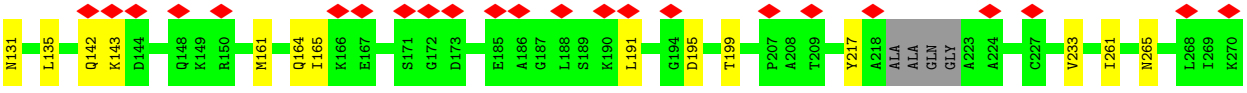


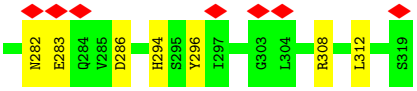


• Molecule 1: Cytosolic protein



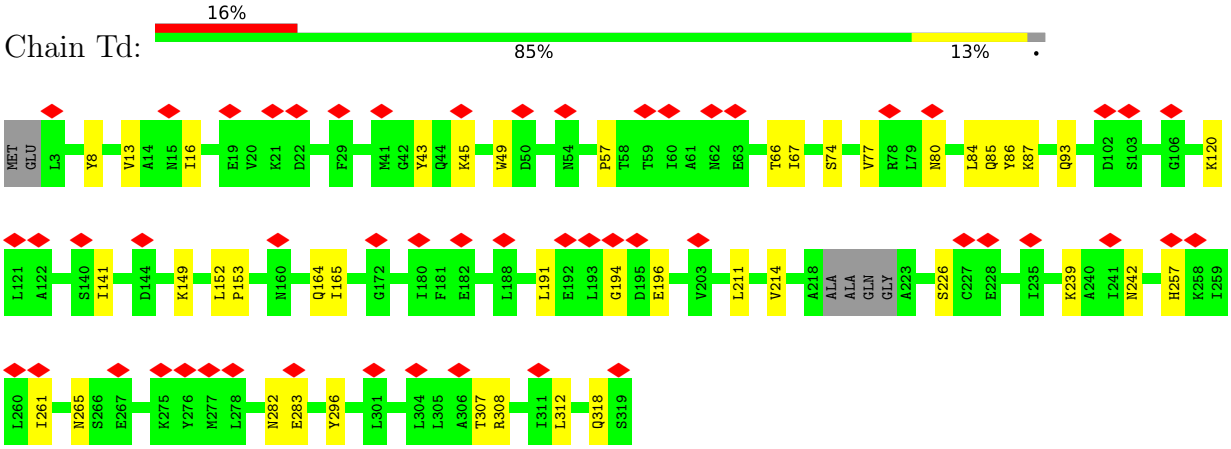






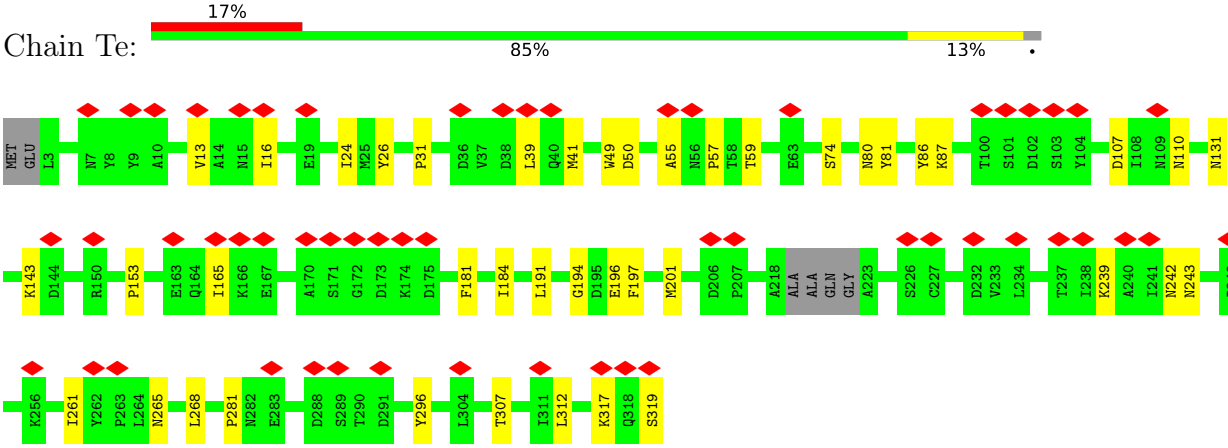
• Molecule 1: Cytosolic protein

Chain Td:



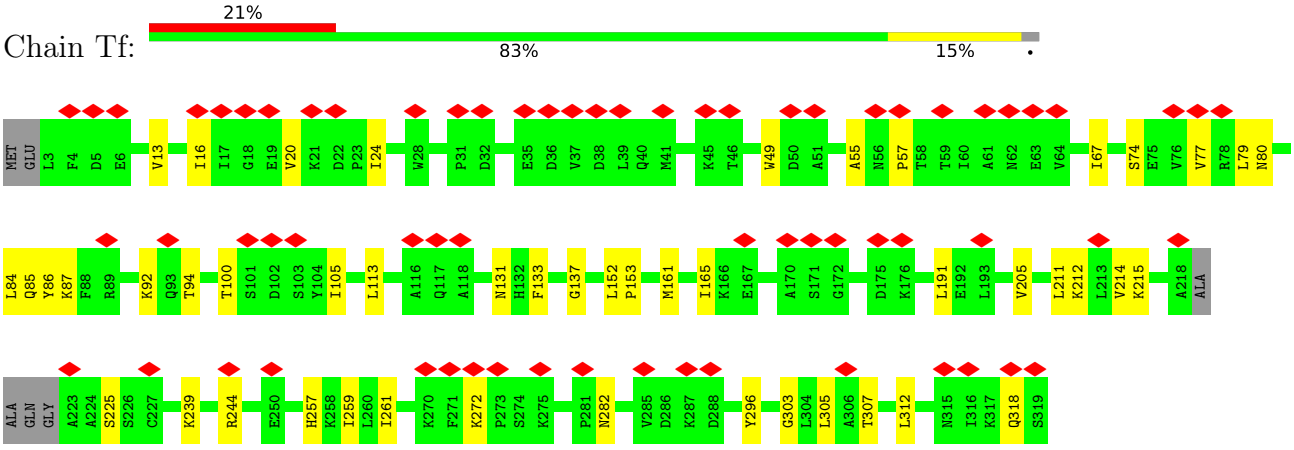
• Molecule 1: Cytosolic protein

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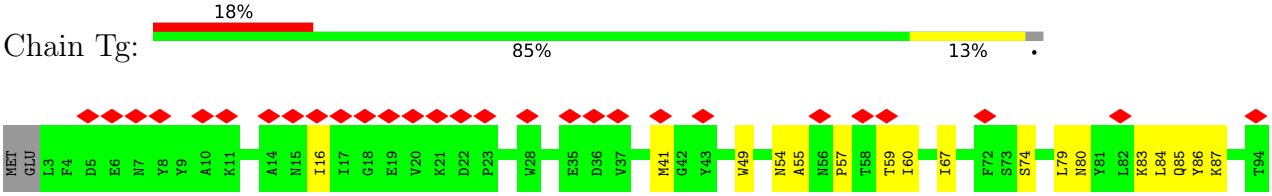
• Molecule 1: Cytosolic protein

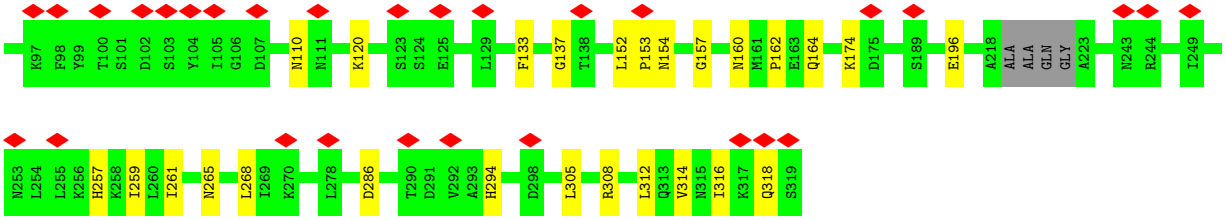
Chain Tf:



• Molecule 1: Cytosolic protein

Chain Tg:

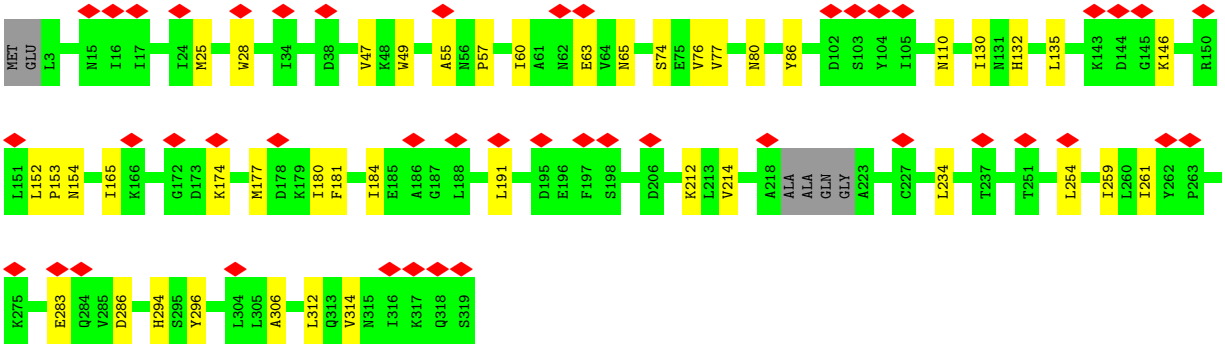




• Molecule 1: Cytosolic protein

Chain Th:

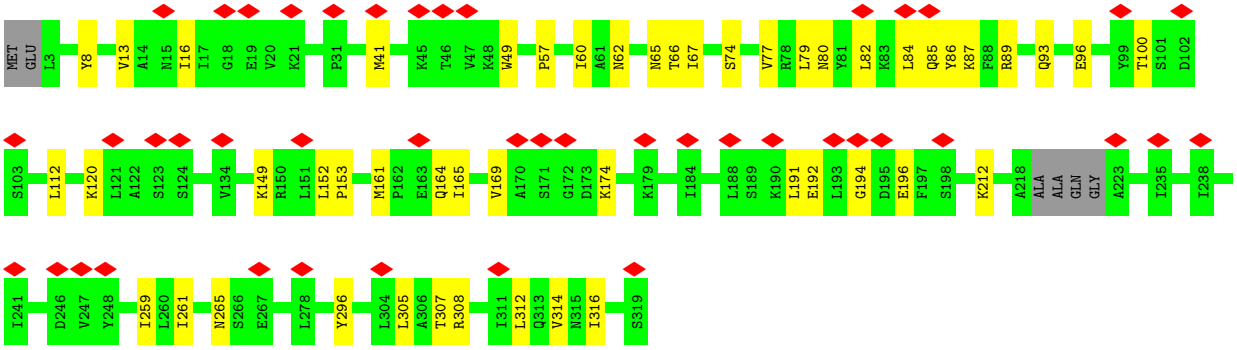




• Molecule 1: Cytosolic protein

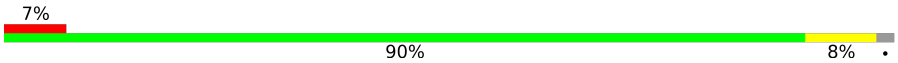
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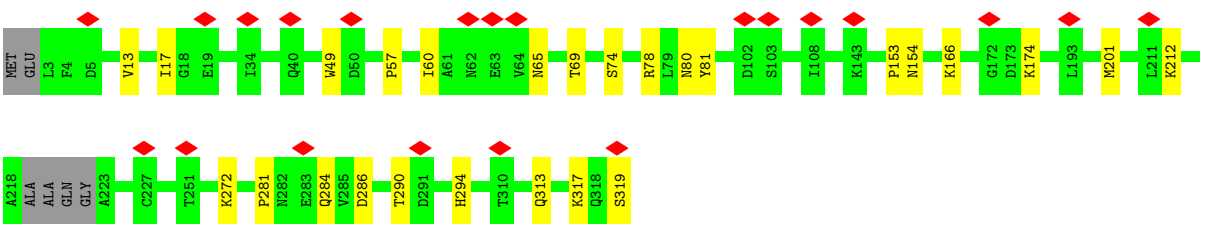




• Molecule 1: Cytosolic protein

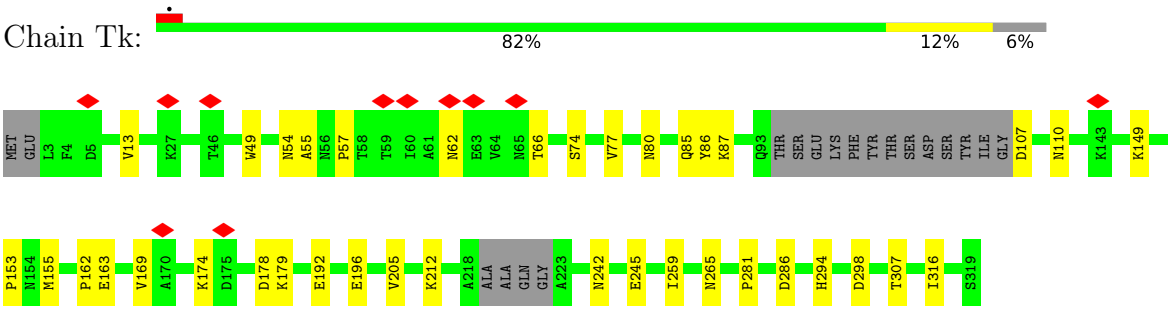
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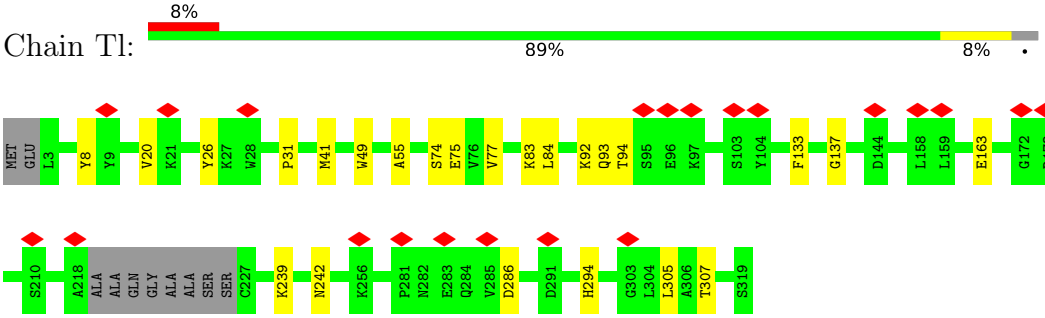
• Molecule 1: Cytosolic protein

Chain Tk:



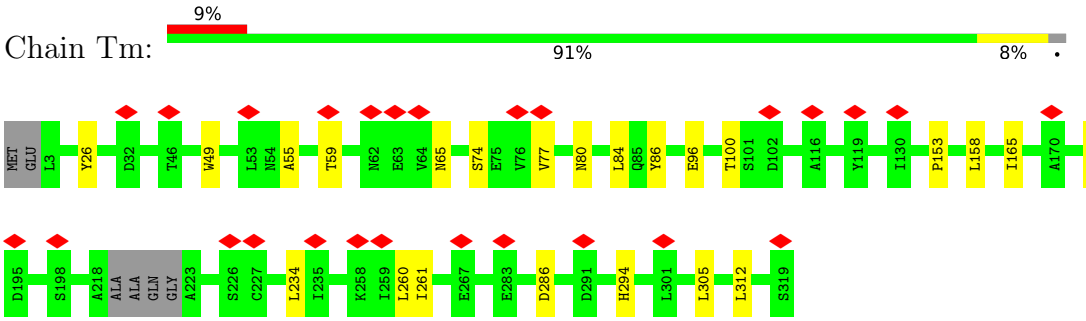
• Molecule 1: Cytosolic protein

Chain Tl:



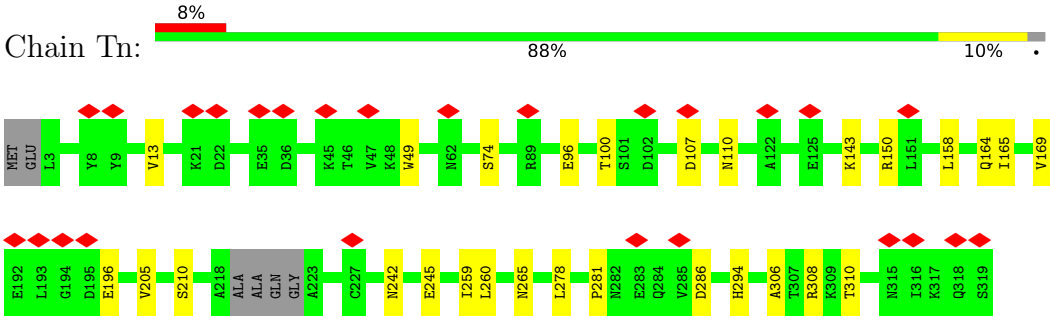
• Molecule 1: Cytosolic protein

Chain Tm:



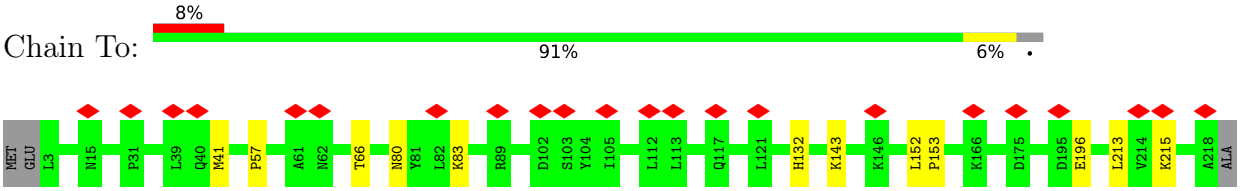
• Molecule 1: Cytosolic protein

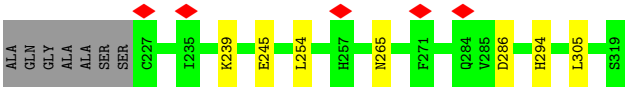
Chain Tn:



• Molecule 1: Cytosolic protein

Chain To:

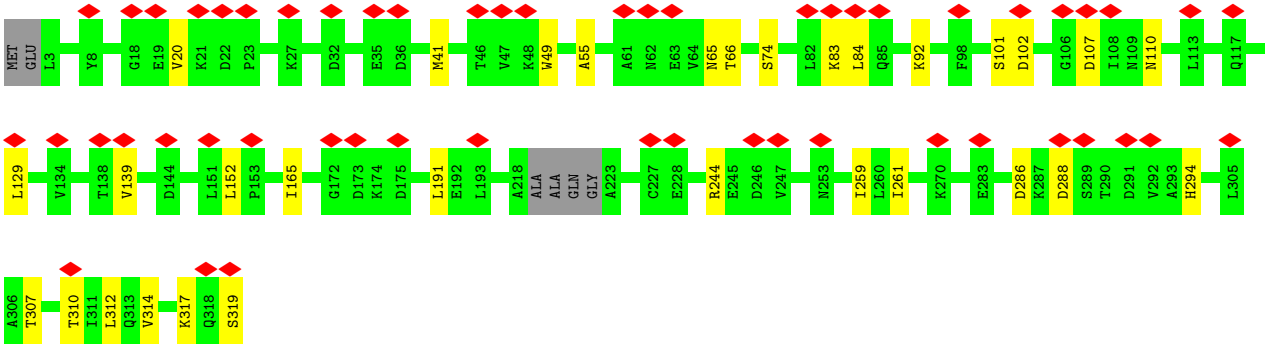




• Molecule 1: Cytosolic protein

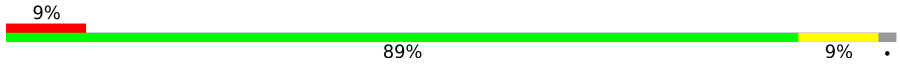
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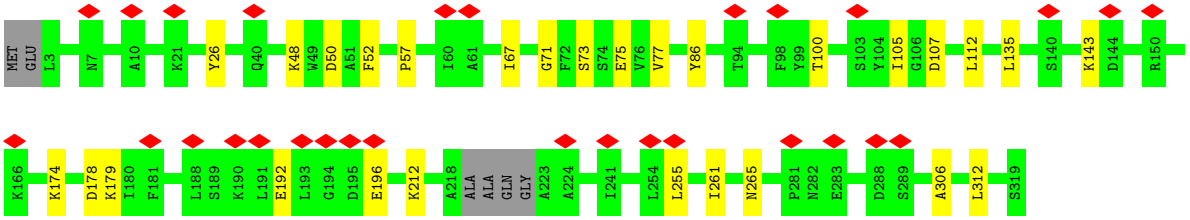




• Molecule 1: Cytosolic protein

Chain Tq:

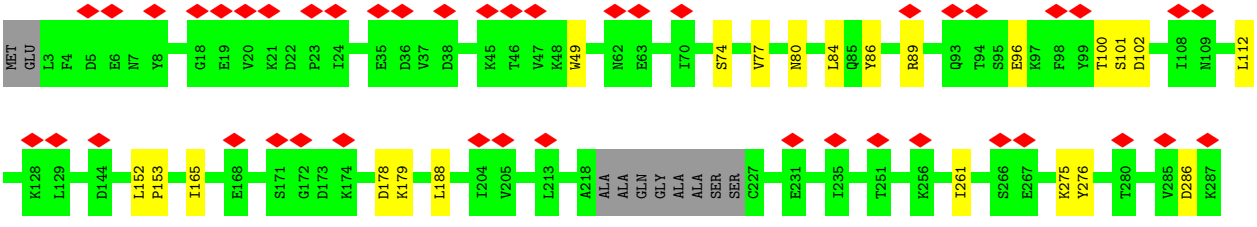




• Molecule 1: Cytosolic protein

Chain Tr:

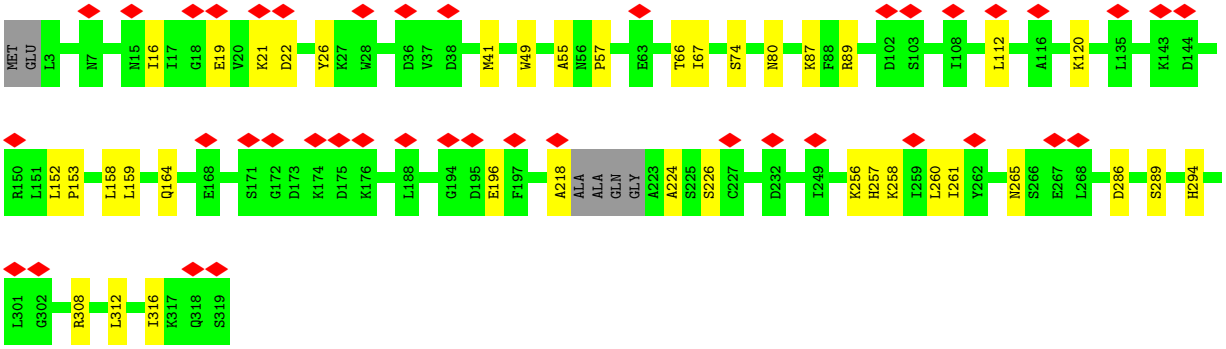




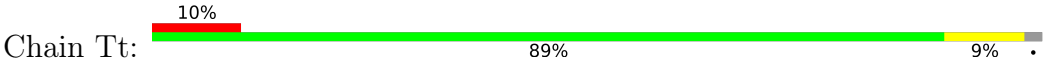
• Molecule 1: Cytosolic protein

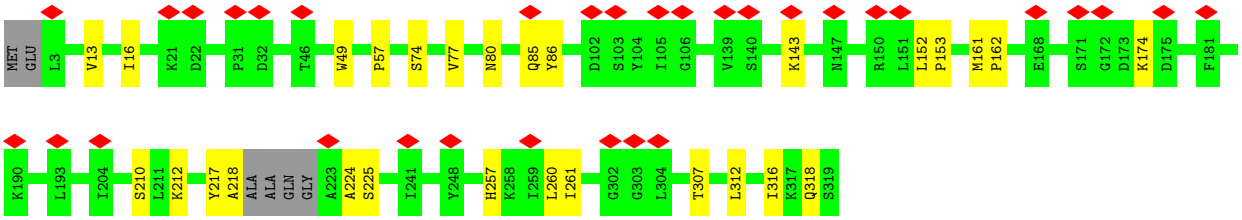
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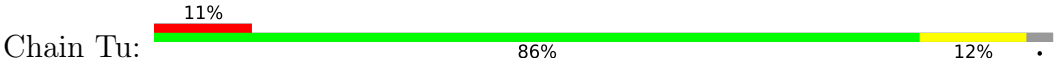


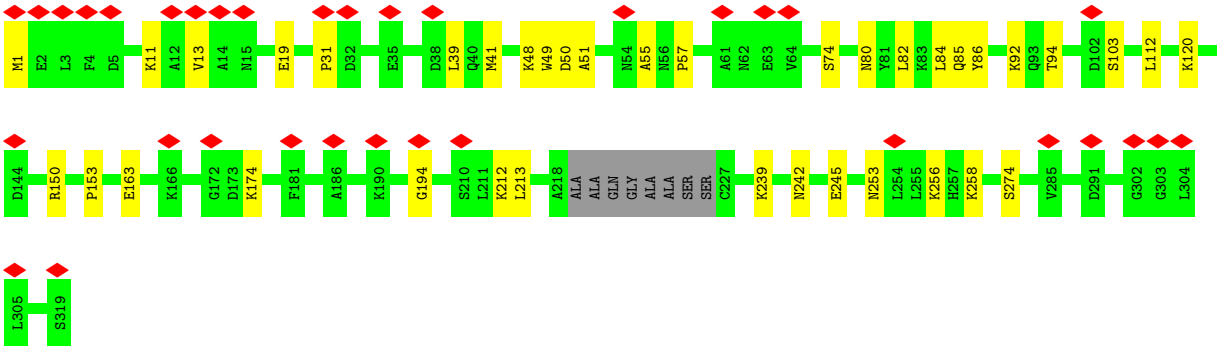
• Molecule 1: Cytosolic protein



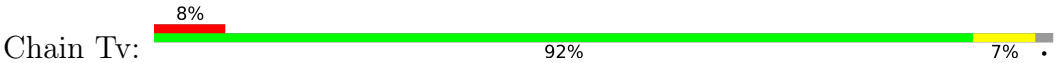


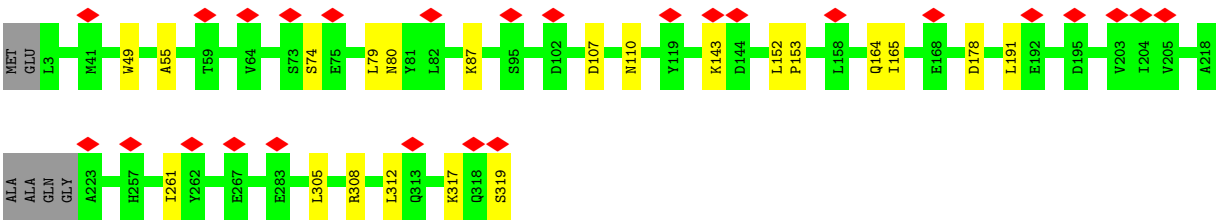
• Molecule 1: Cytosolic protein





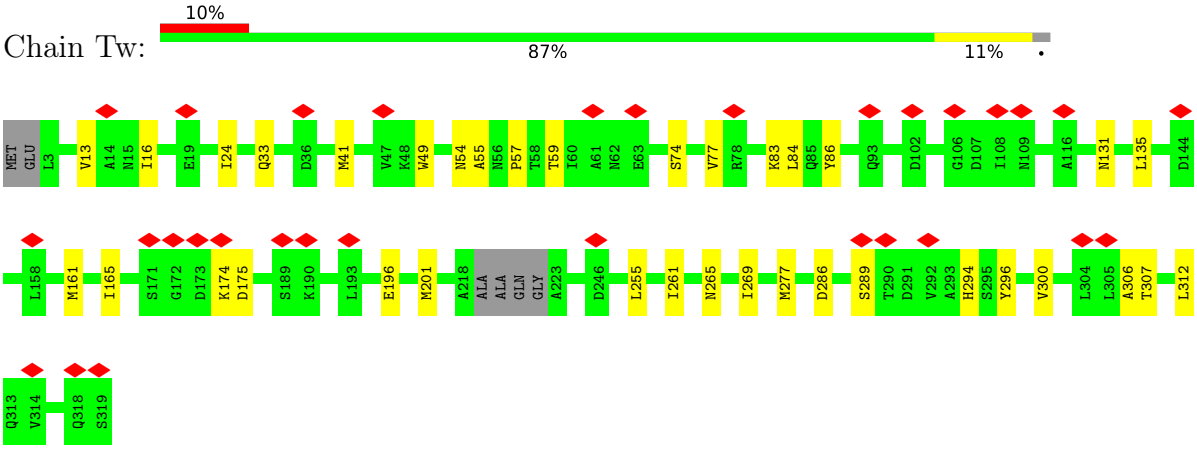
• Molecule 1: Cytosolic protein





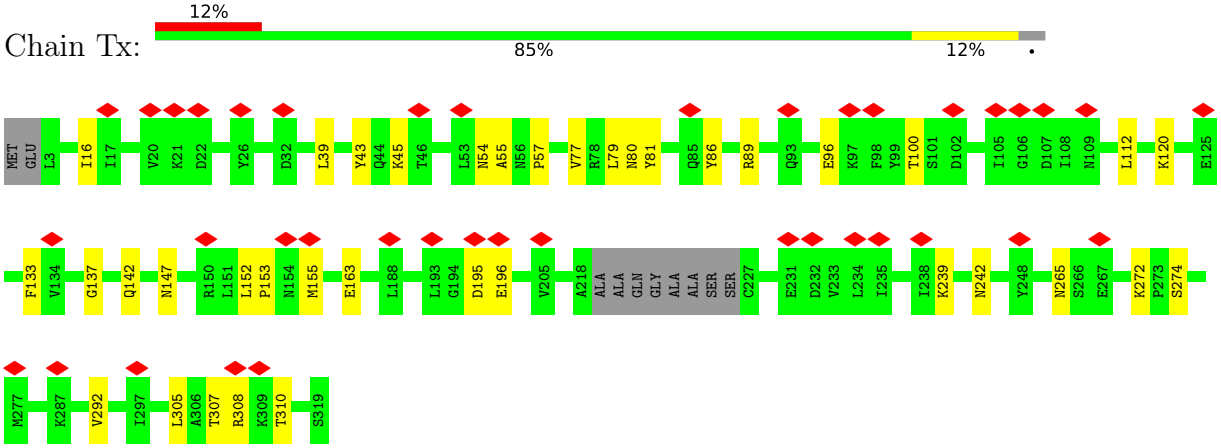
• Molecule 1: Cytosolic protein

Chain Tw:



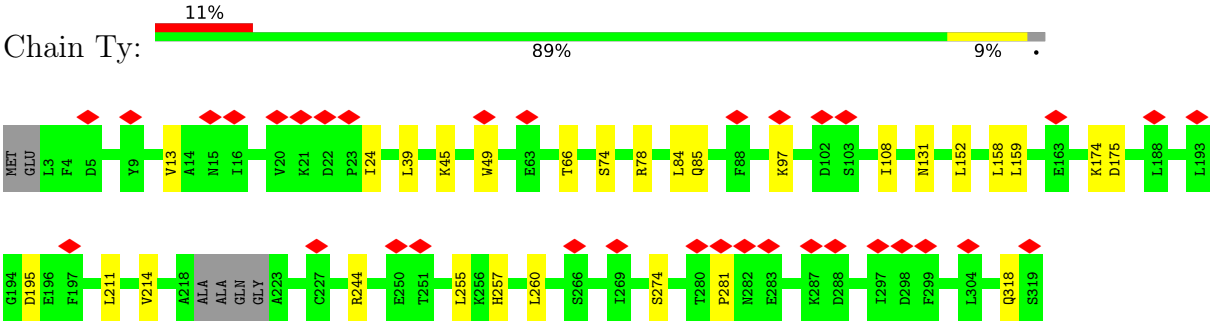
• Molecule 1: Cytosolic protein

Chain Tx:



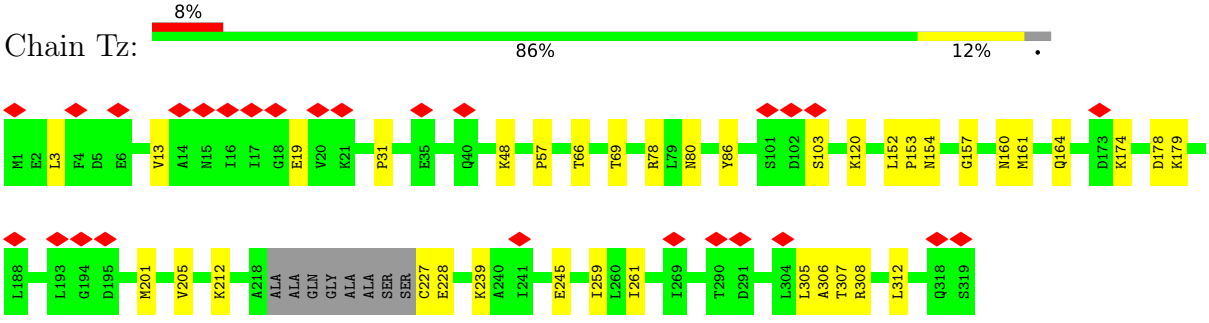
• Molecule 1: Cytosolic protein

Chain Ty:



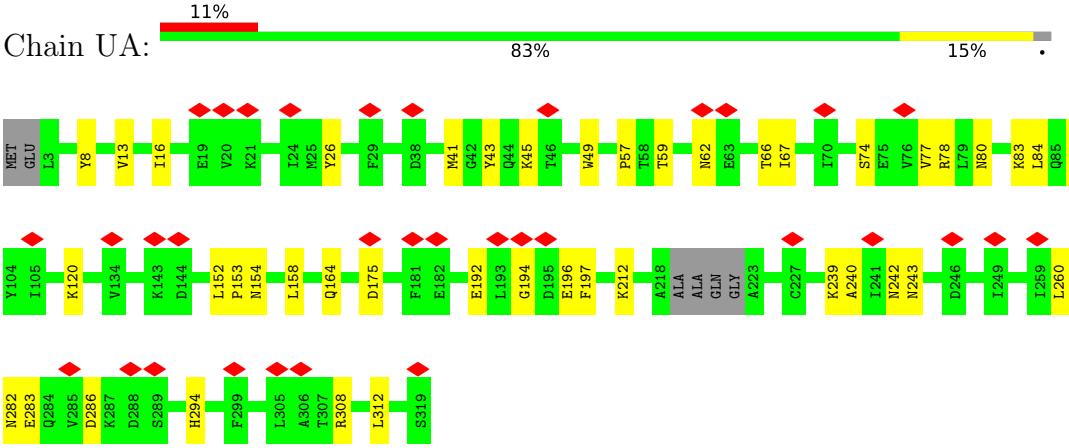
• Molecule 1: Cytosolic protein

Chain Tz:



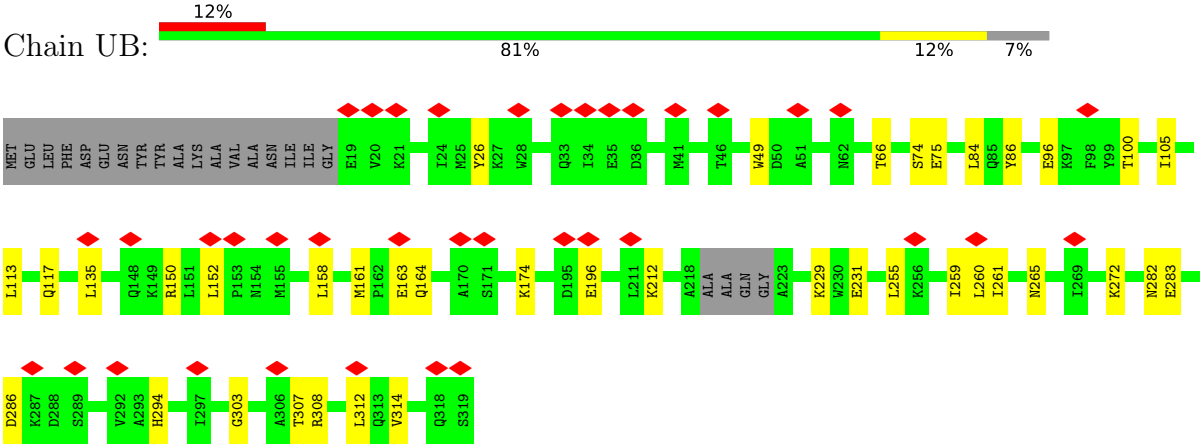
• Molecule 1: Cytosolic protein

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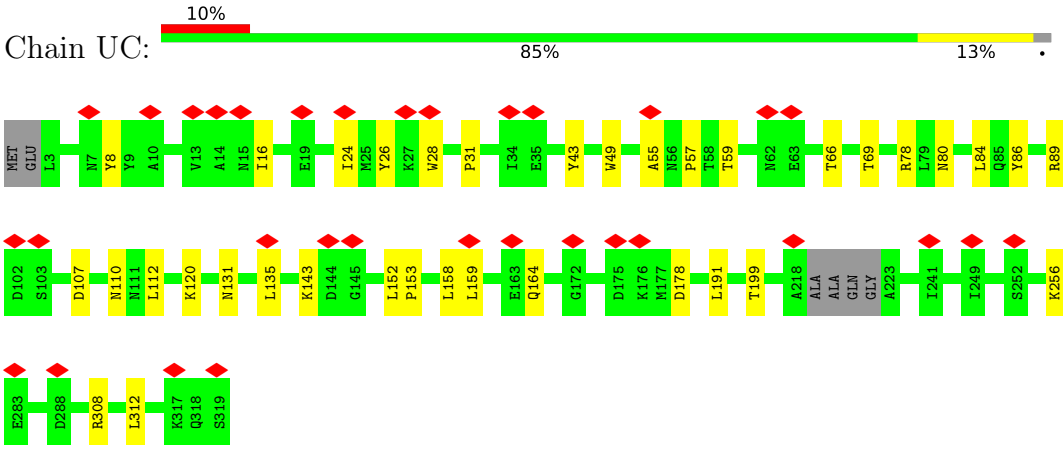
• Molecule 1: Cytosolic protein

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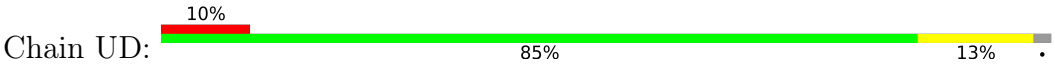
• Molecule 1: Cytosolic protein

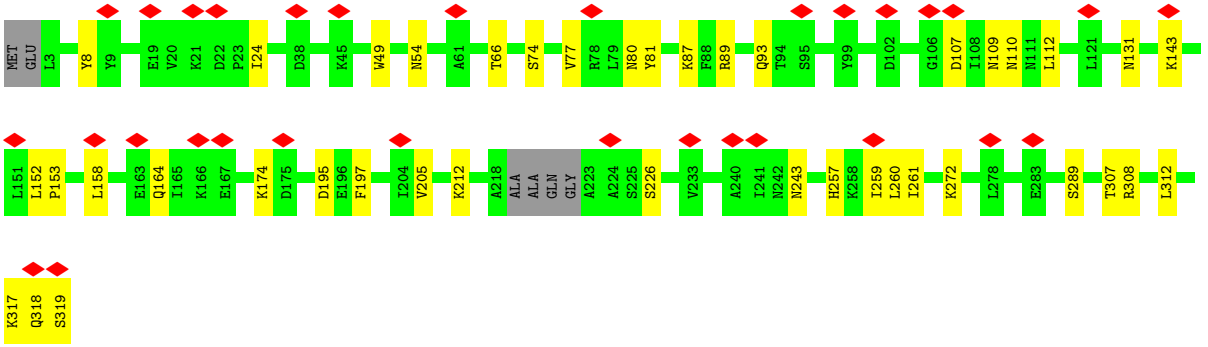
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• Molecule 1: Cytosolic protein

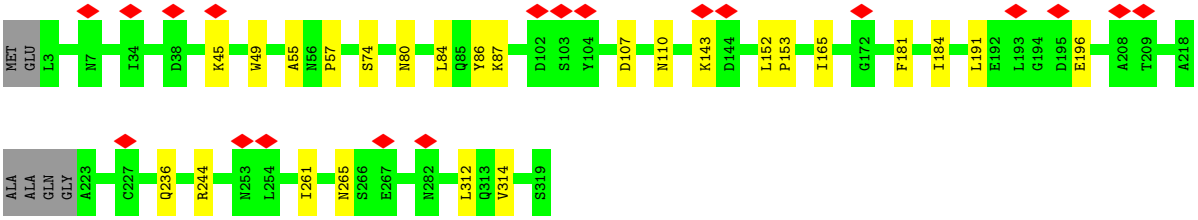
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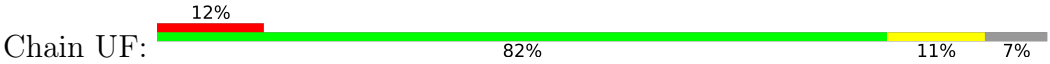


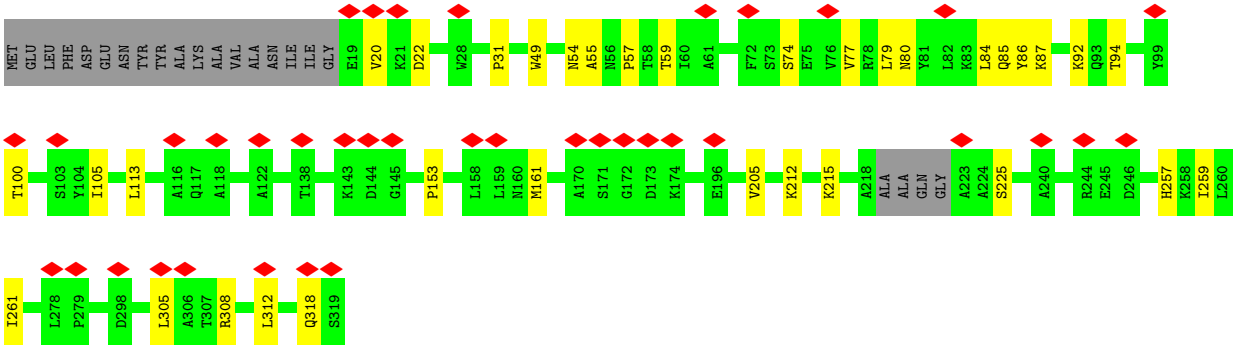
• Molecule 1: Cytosolic protein



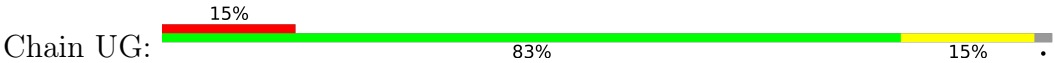


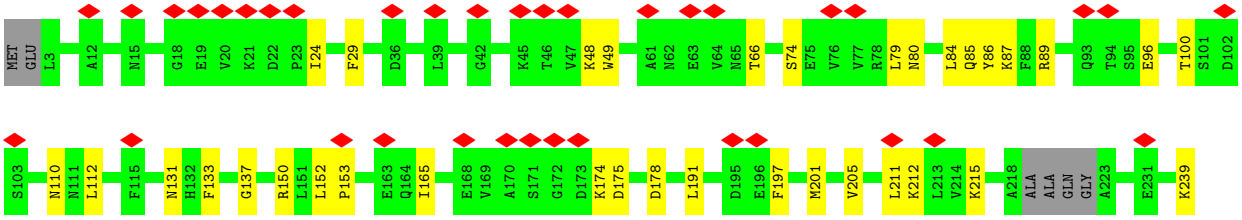
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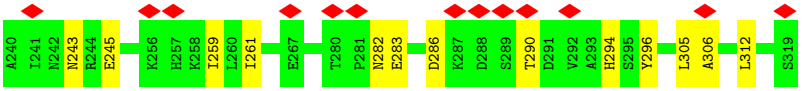




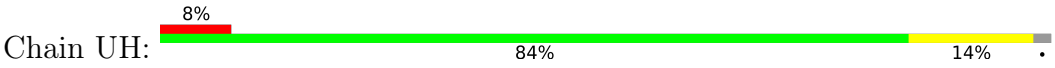
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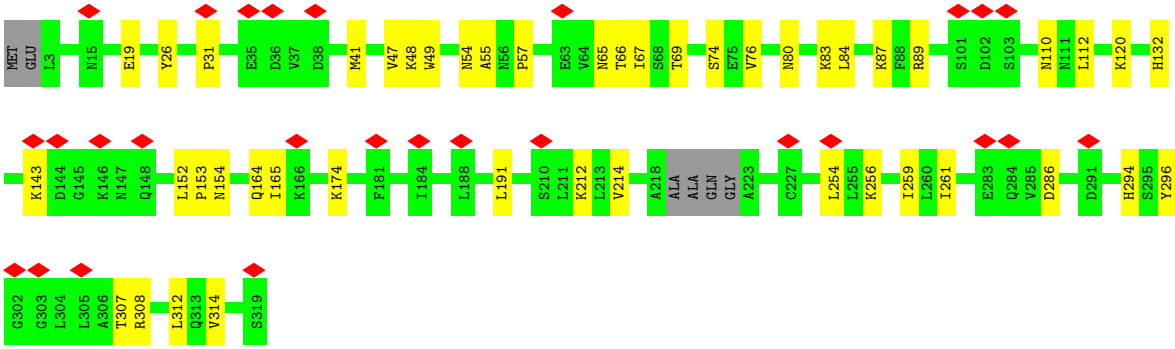




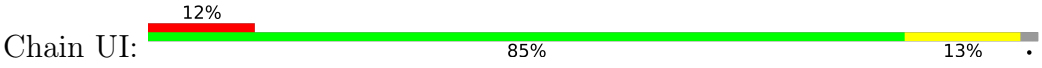


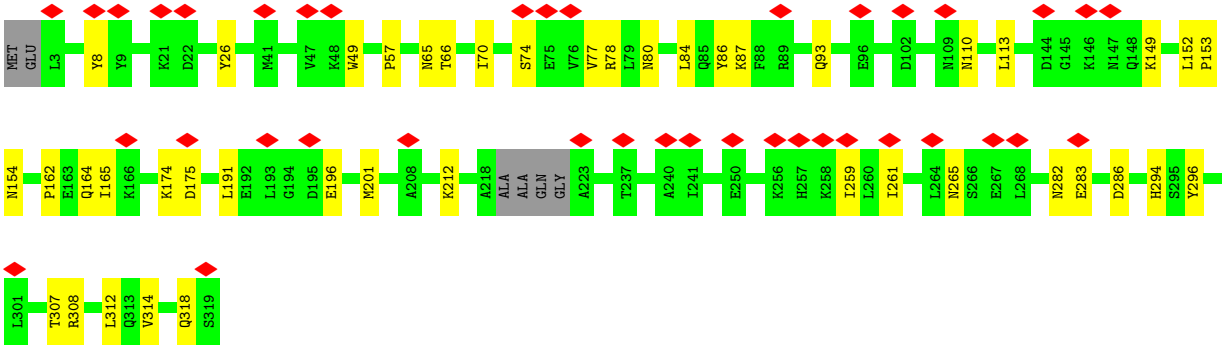
• Molecule 1: Cytosolic protein



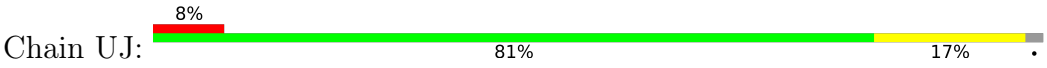


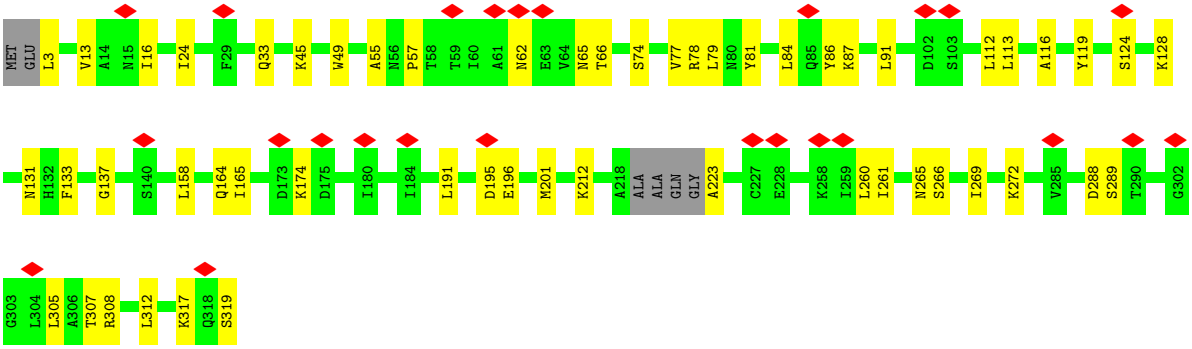
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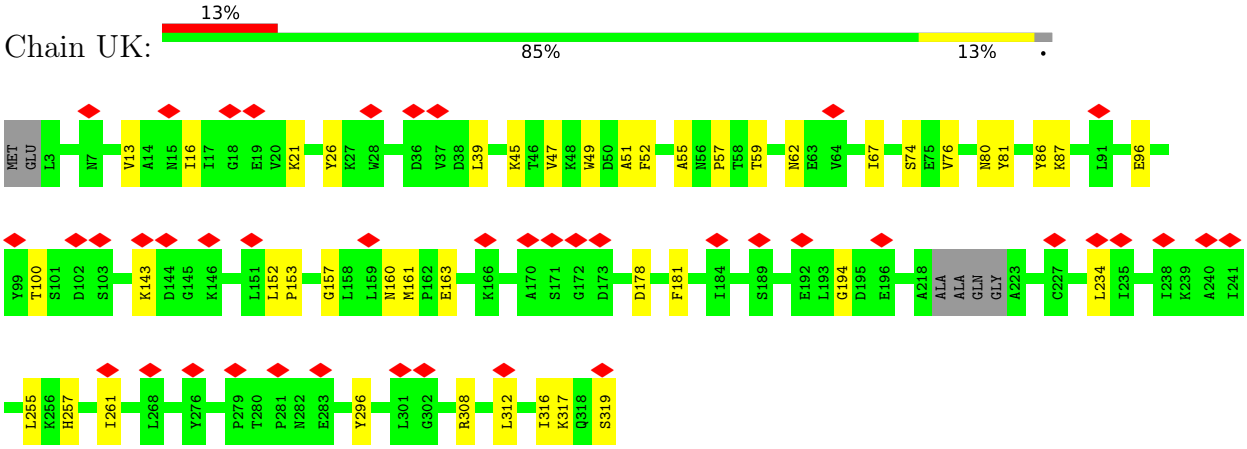
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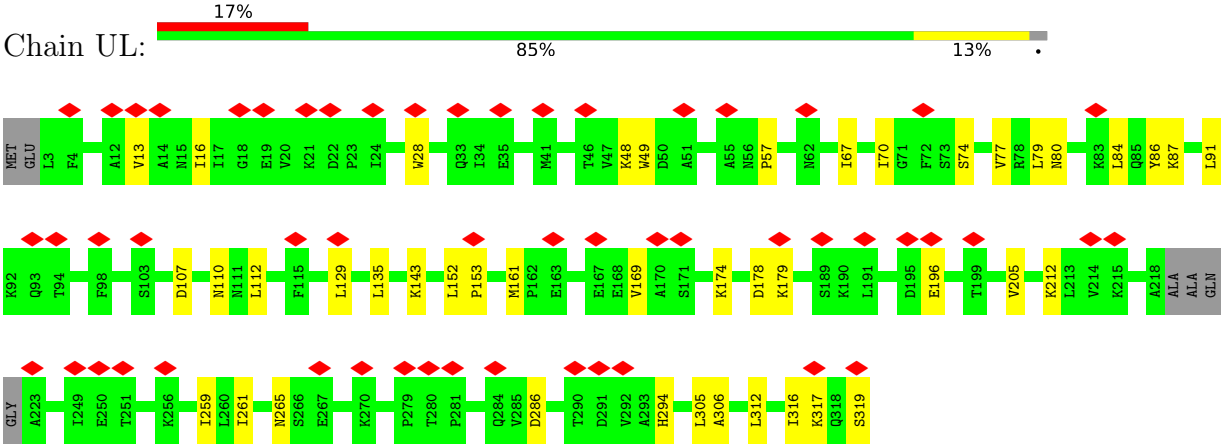
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Chain UK:



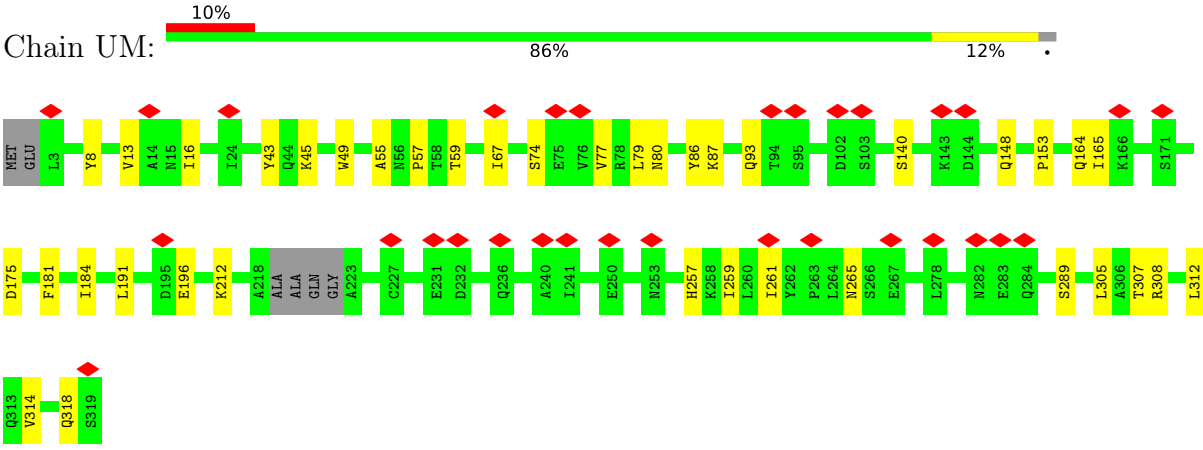
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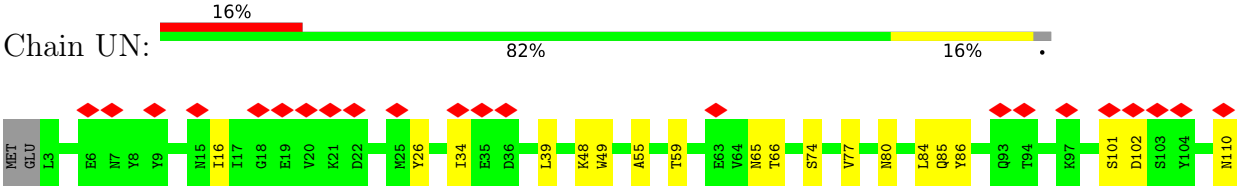
• Molecule 1: Cytosolic protein

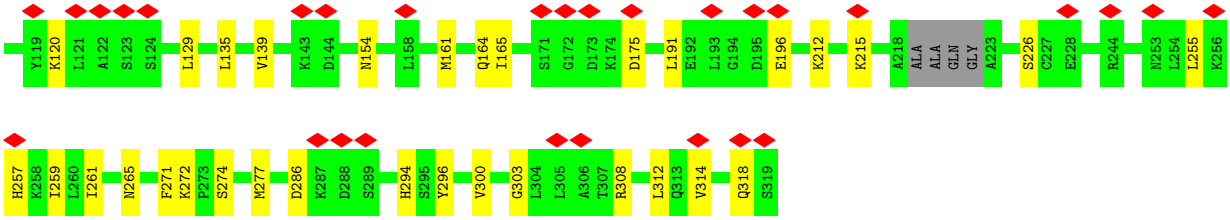
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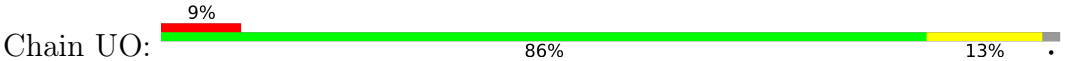
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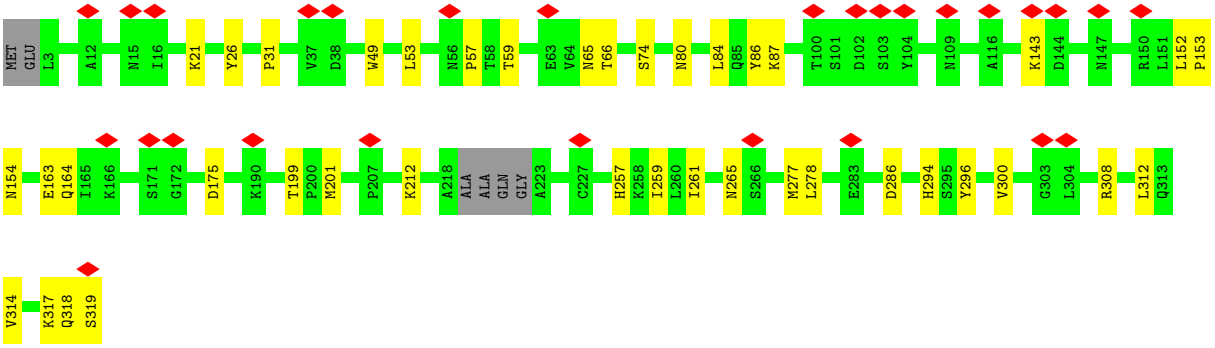
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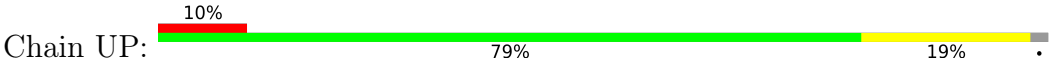


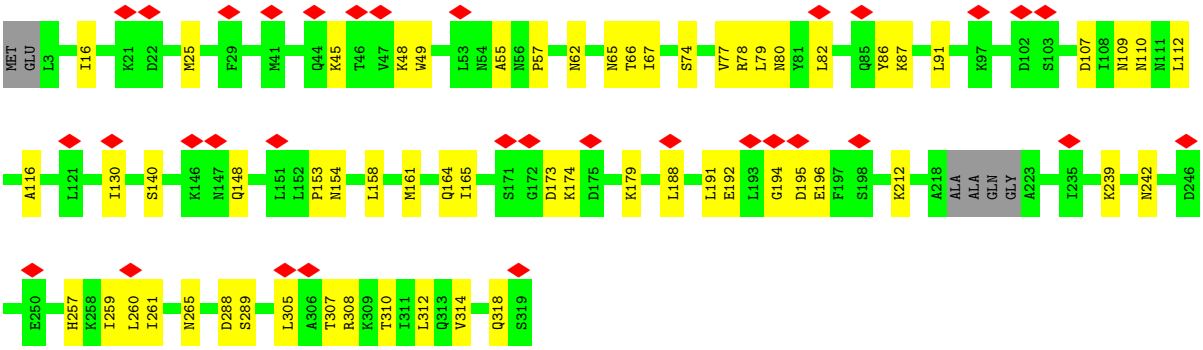
• Molecule 1: Cytosolic protein



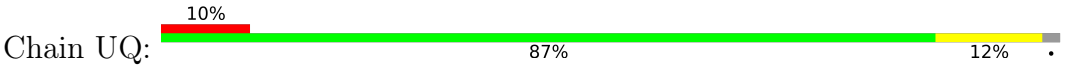


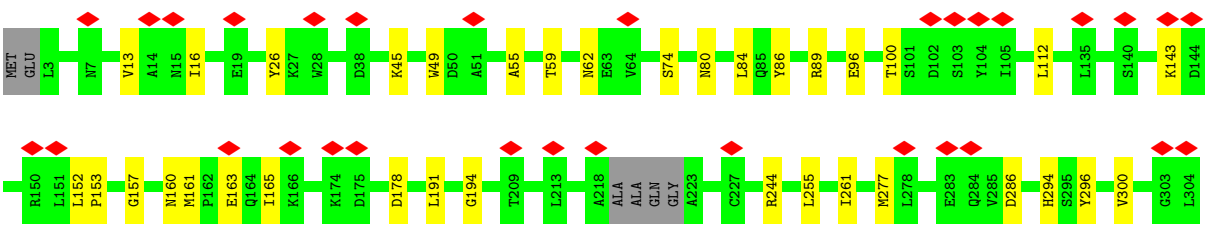
• Molecule 1: Cytosolic protein

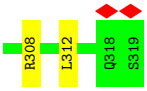




• Molecule 1: Cytosolic protein



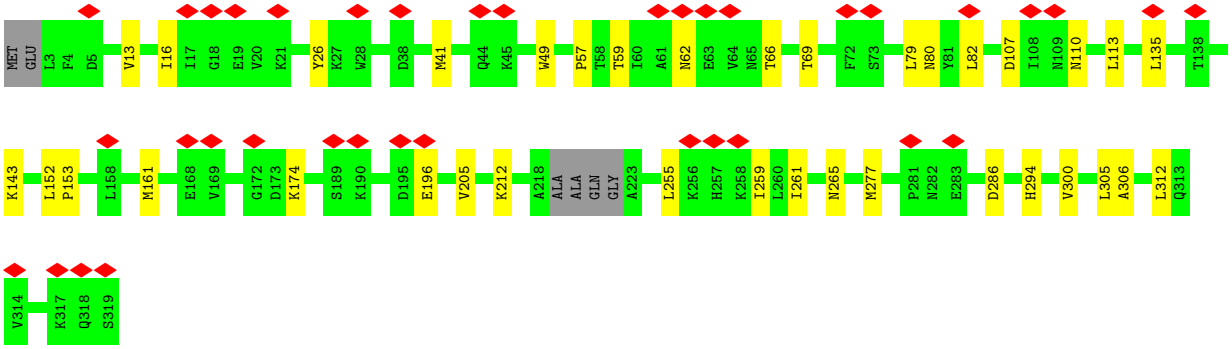




• Molecule 1: Cytosolic protein

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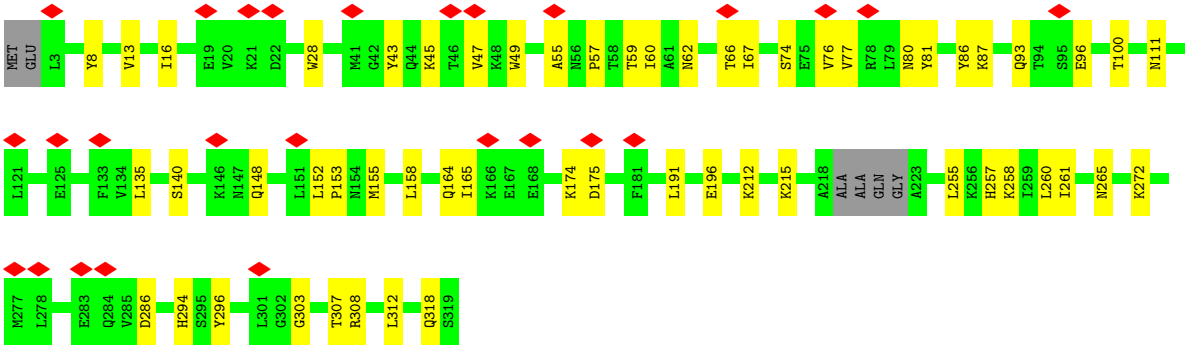




• Molecule 1: Cytosolic protein

Chain US:

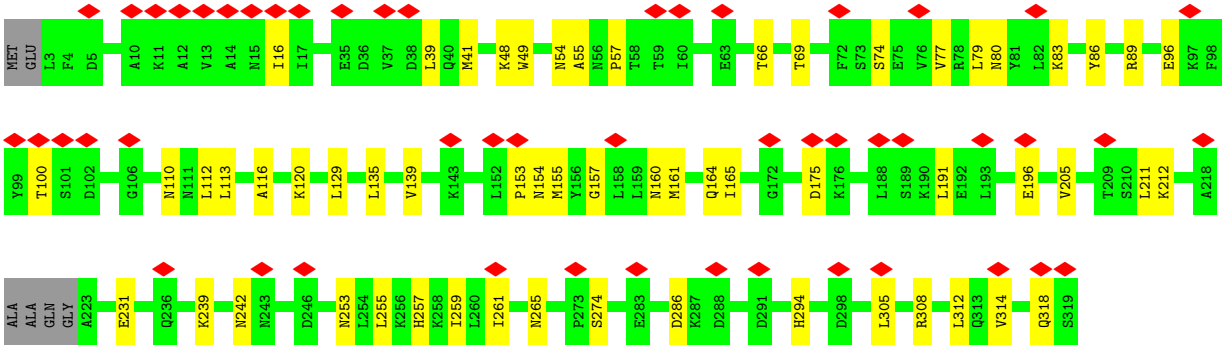




• Molecule 1: Cytosolic protein

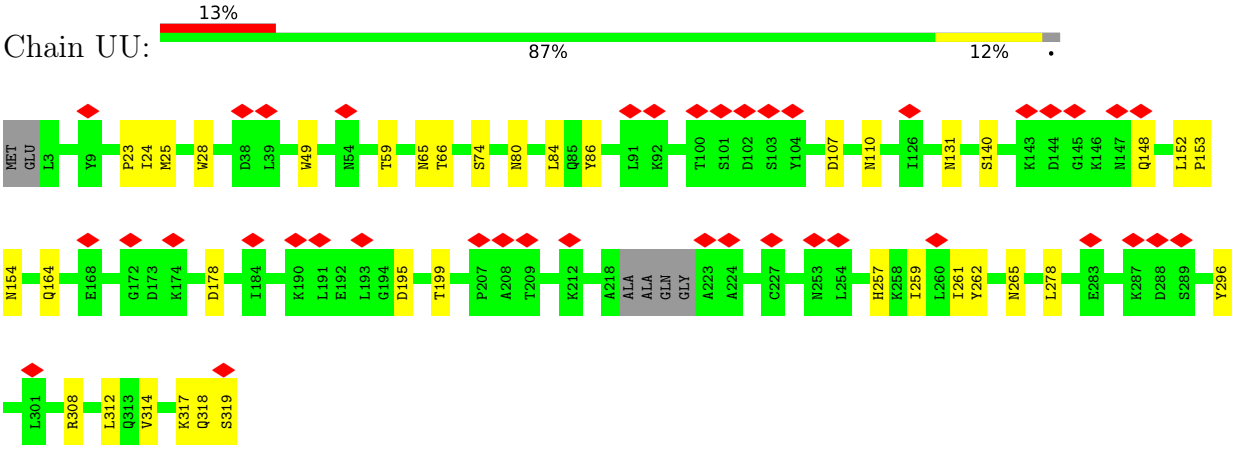
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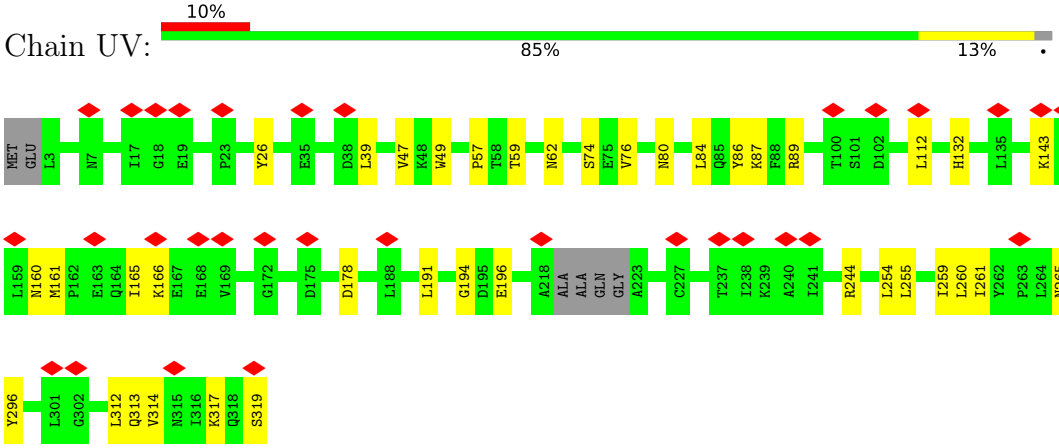
• Molecule 1: Cytosolic protein

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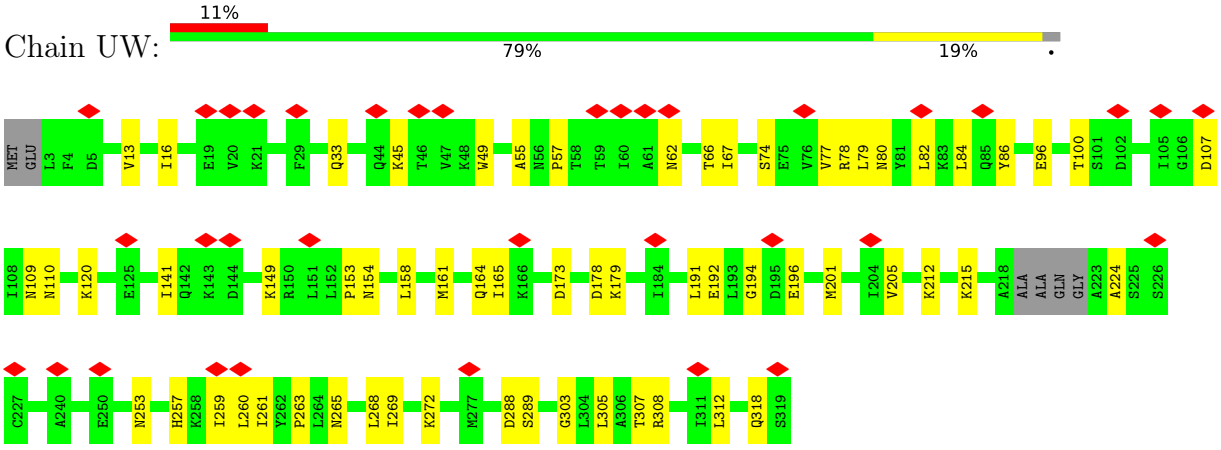
• Molecule 1: Cytosolic protein

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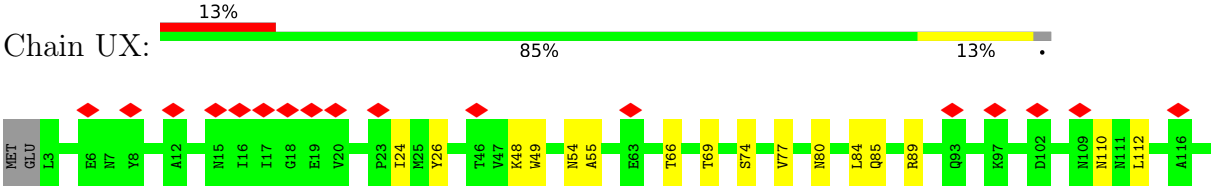
• Molecule 1: Cytosolic protein

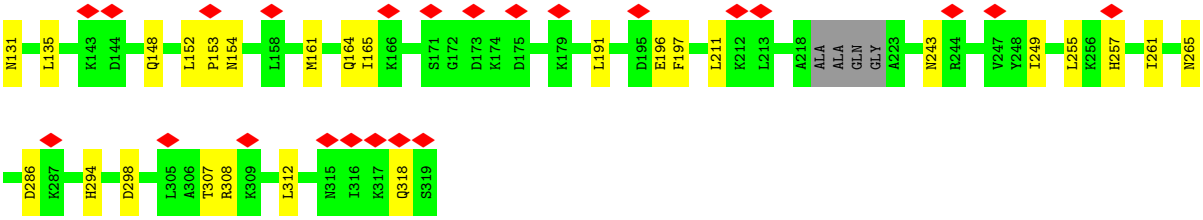
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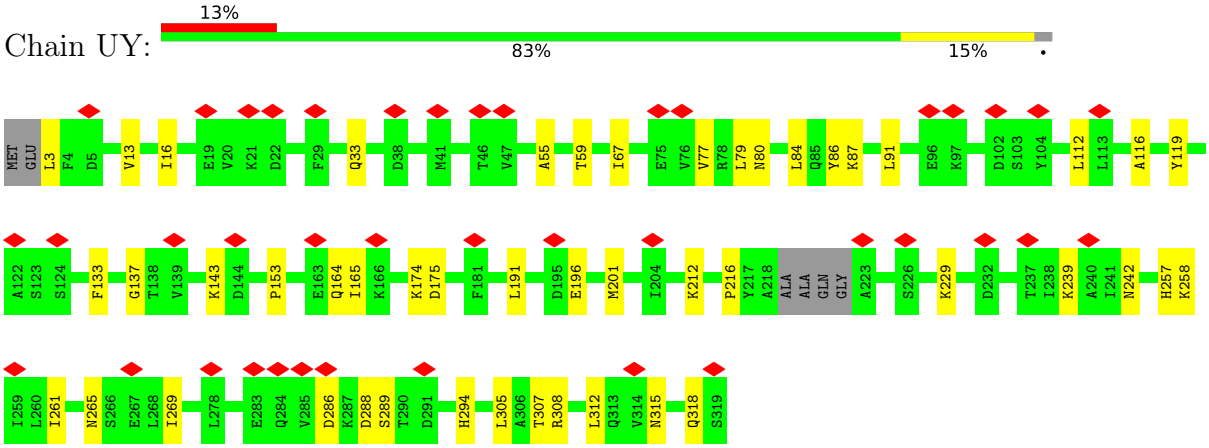
• Molecule 1: Cytosolic protein

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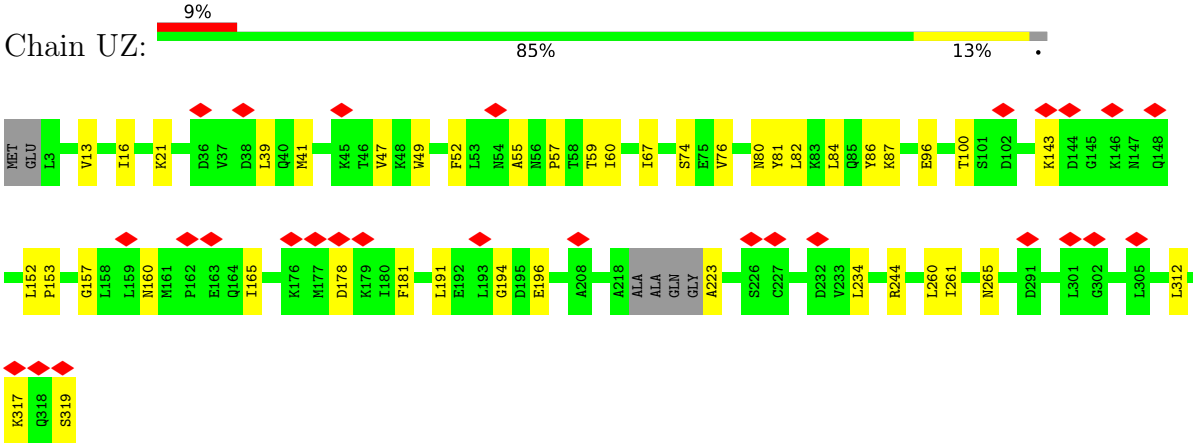




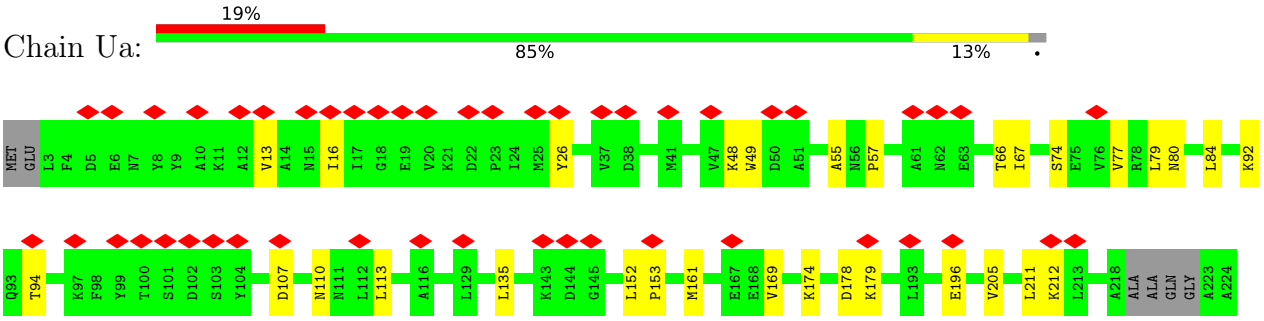
• Molecule 1: Cytosolic protein

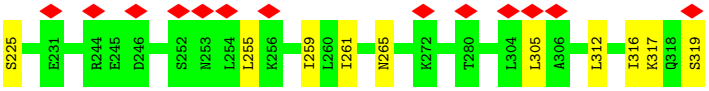


• Molecule 1: Cytosolic protein

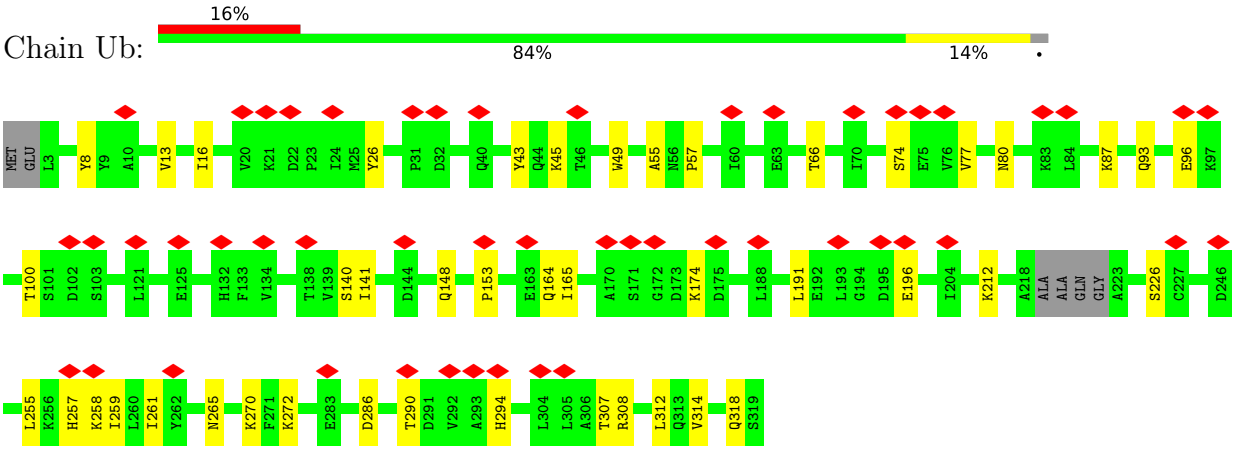


• Molecule 1: Cytosolic protein

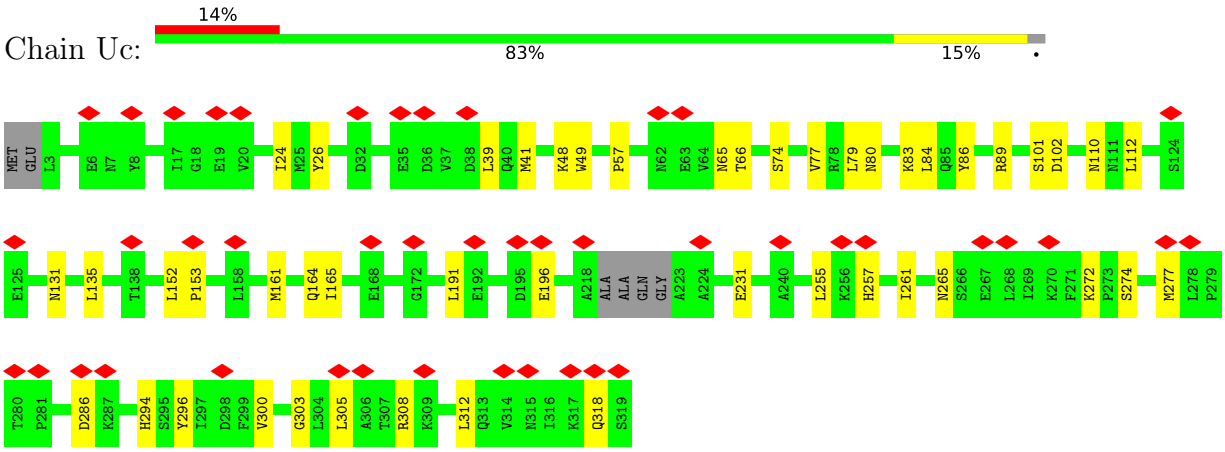




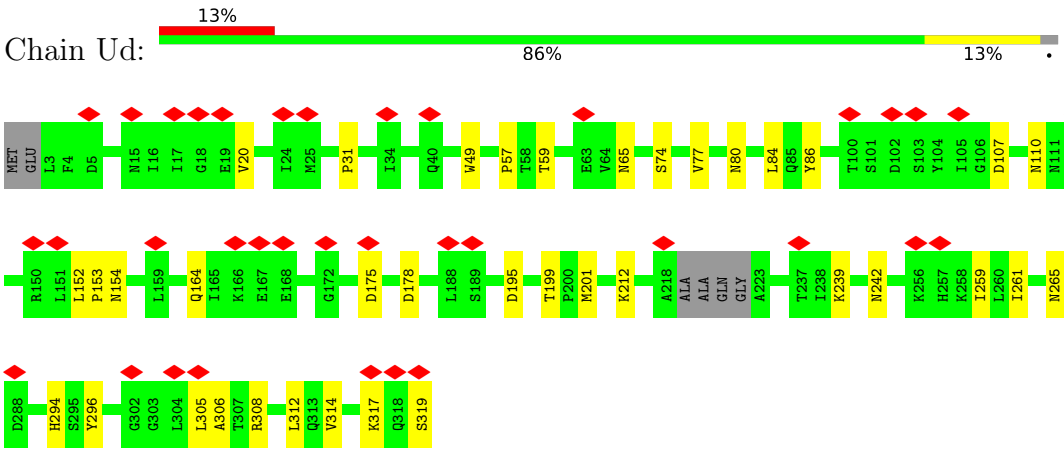
• Molecule 1: Cytosolic protein



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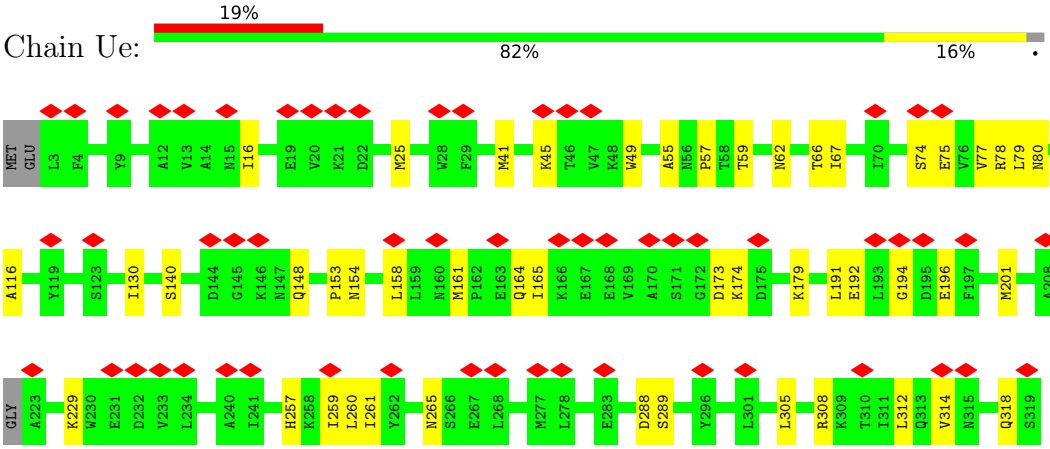


• Molecule 1: Cytosolic protein



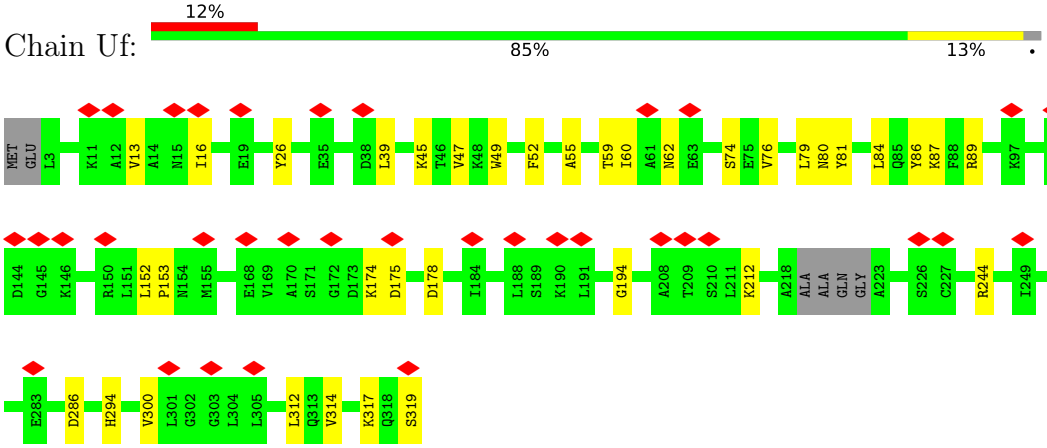
• Molecule 1: Cytosolic protein

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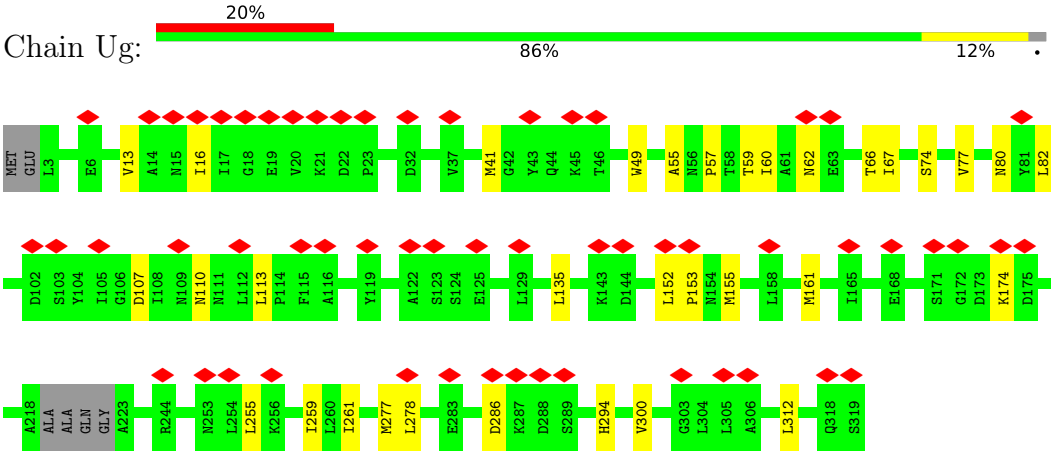
• Molecule 1: Cytosolic protein

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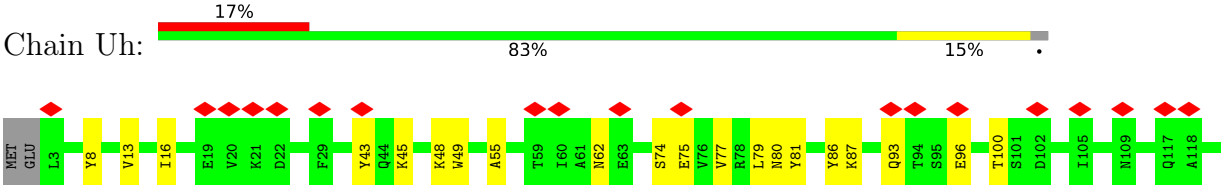
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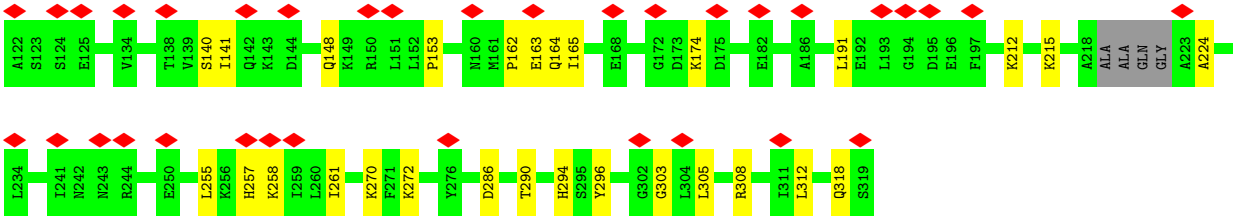
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• Molecule 1: Cytosolic protein

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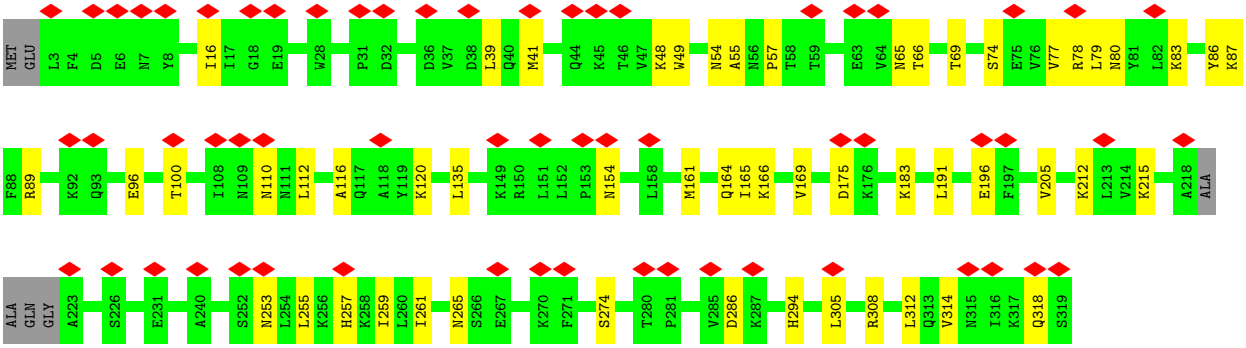




• Molecule 1: Cytosolic protein

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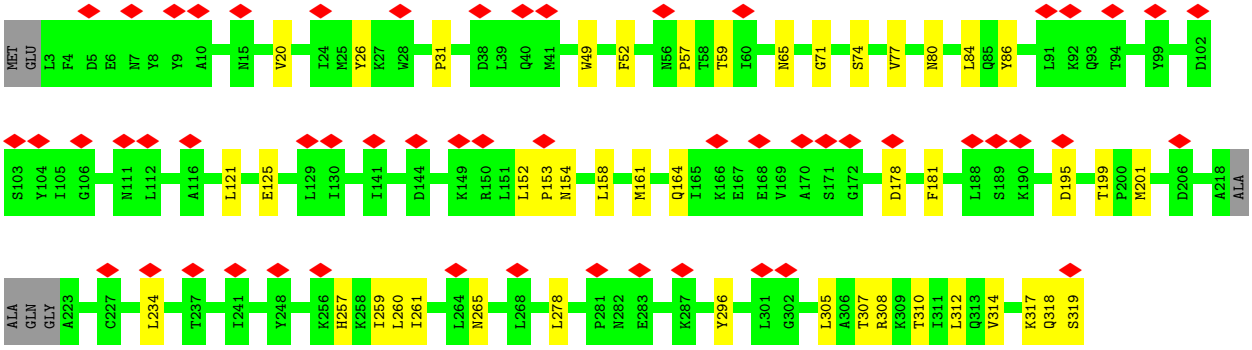




• Molecule 1: Cytosolic protein

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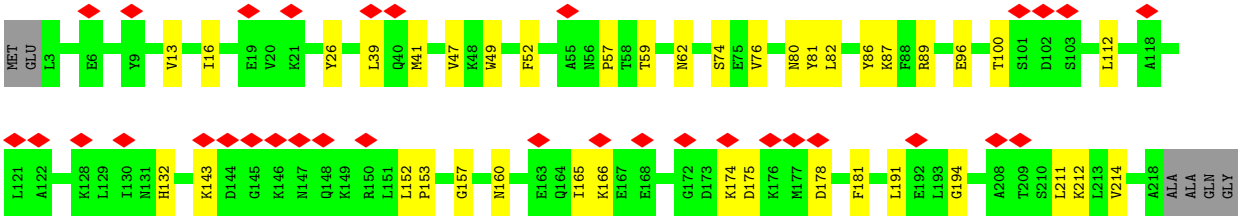


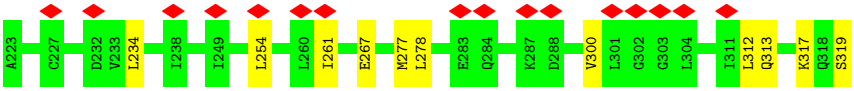


• Molecule 1: Cytosolic protein

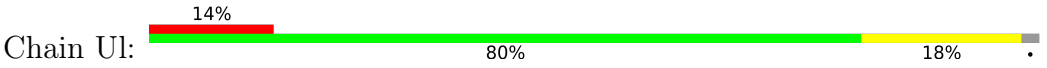
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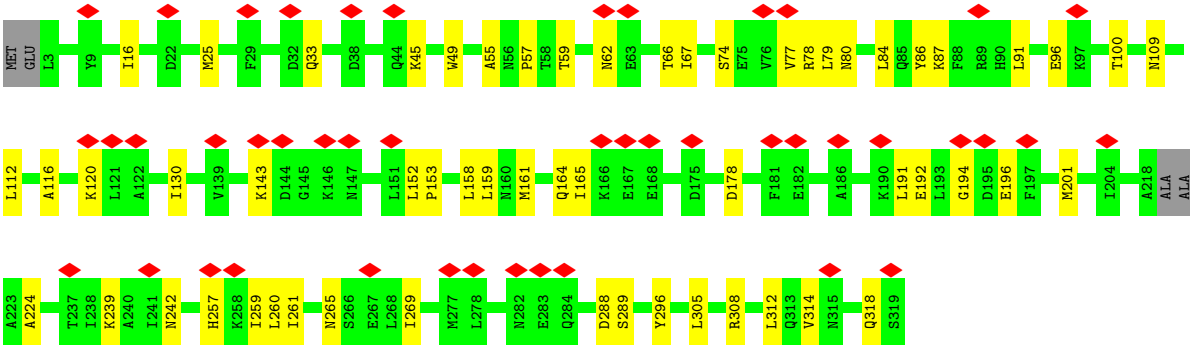




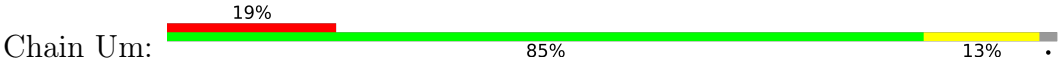


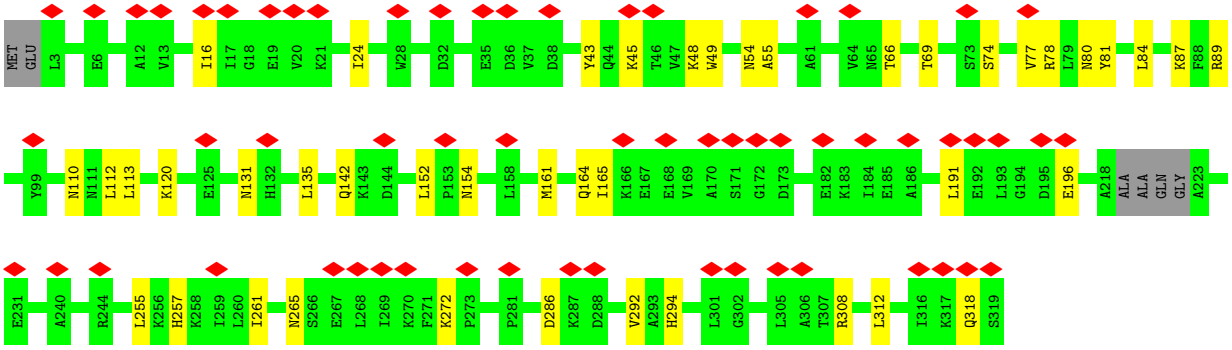
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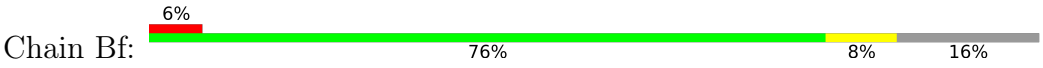


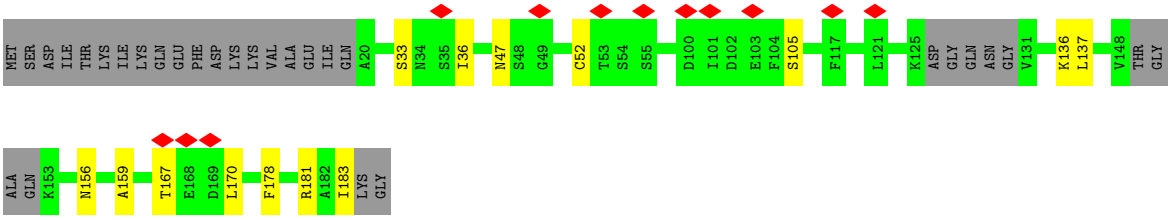
• Molecule 1: Cytosolic protein



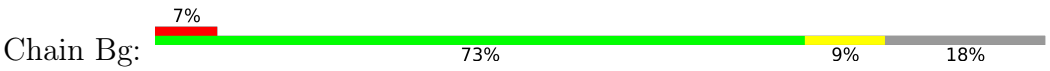


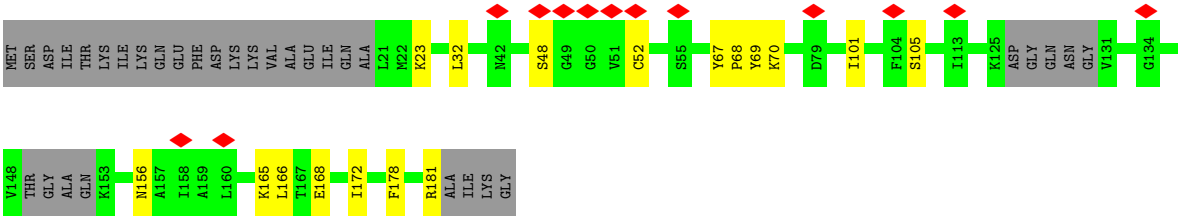
• Molecule 2: Decoration protein P03





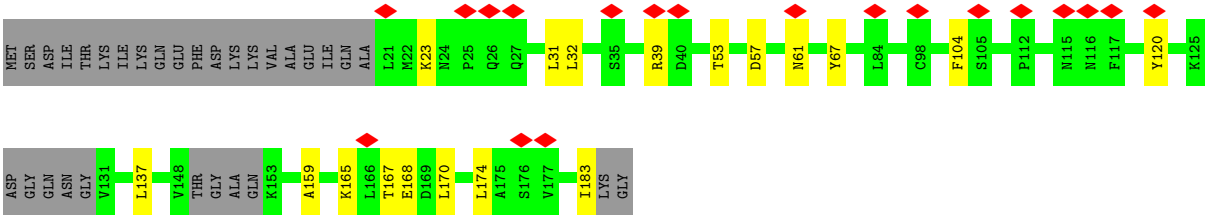
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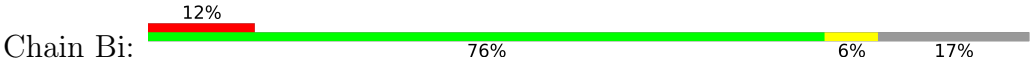


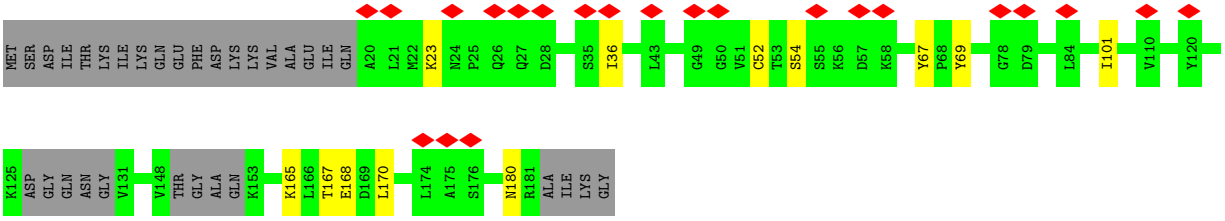
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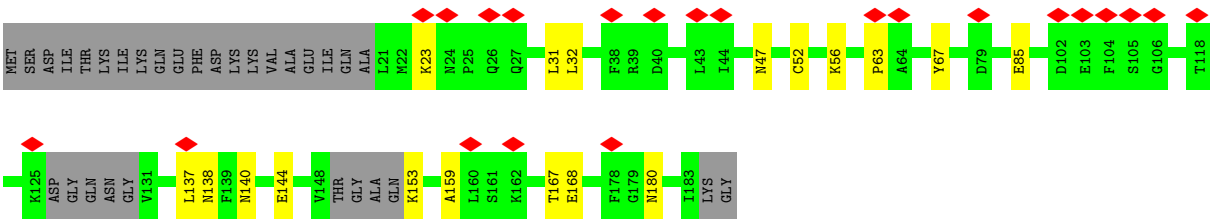
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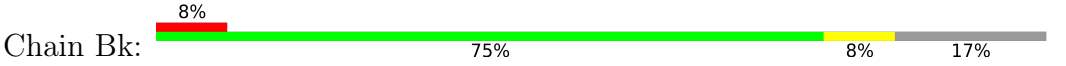


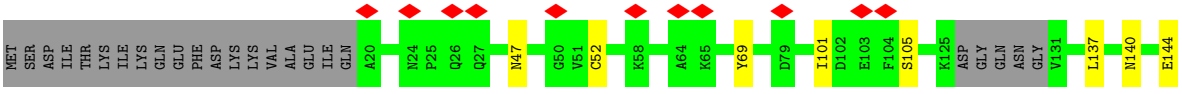
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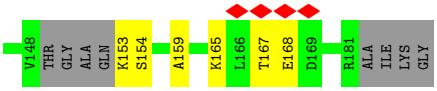




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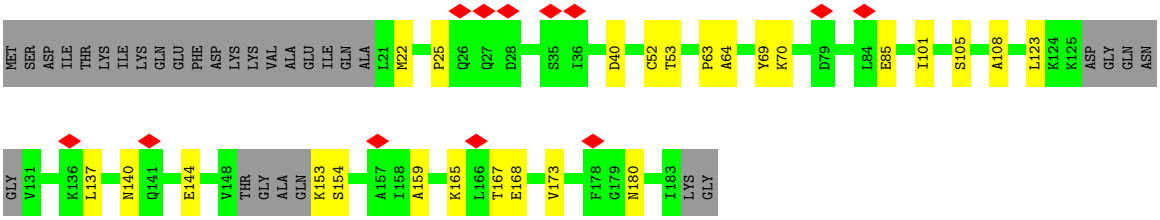




• Molecule 2: Decoration protein P03

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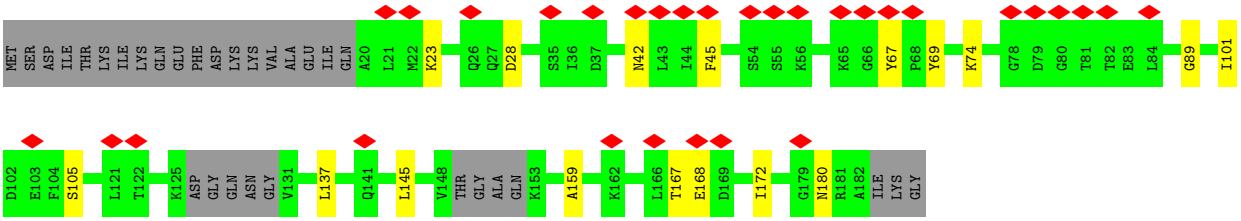




• Molecule 2: Decoration protein P03

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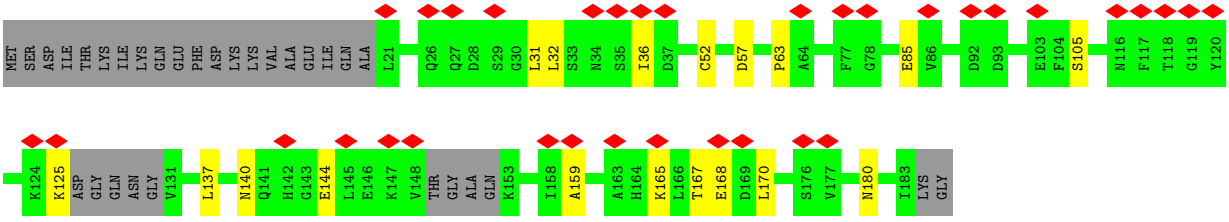




• Molecule 2: Decoration protein P03

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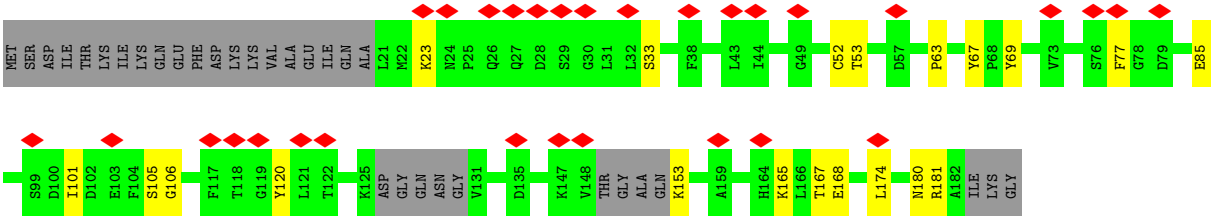




• Molecule 2: Decoration protein P03

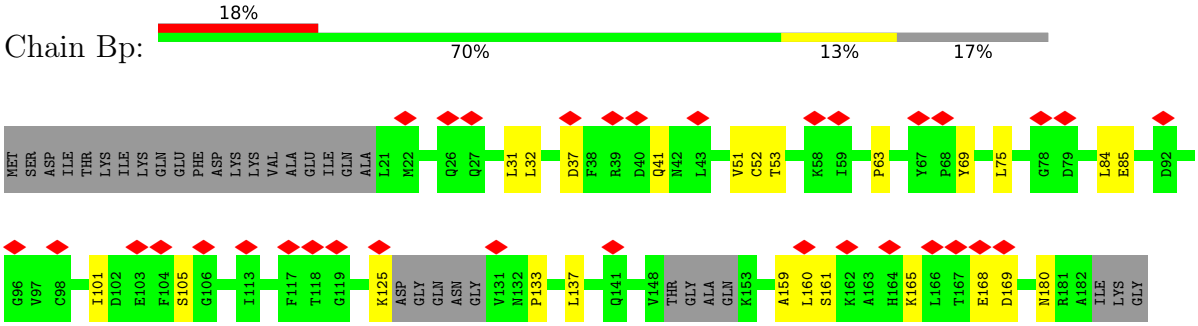
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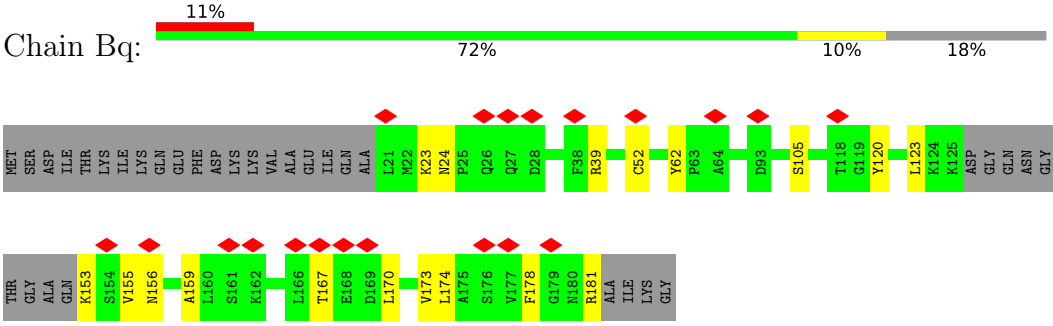
• Molecule 2: Decoration protein P03

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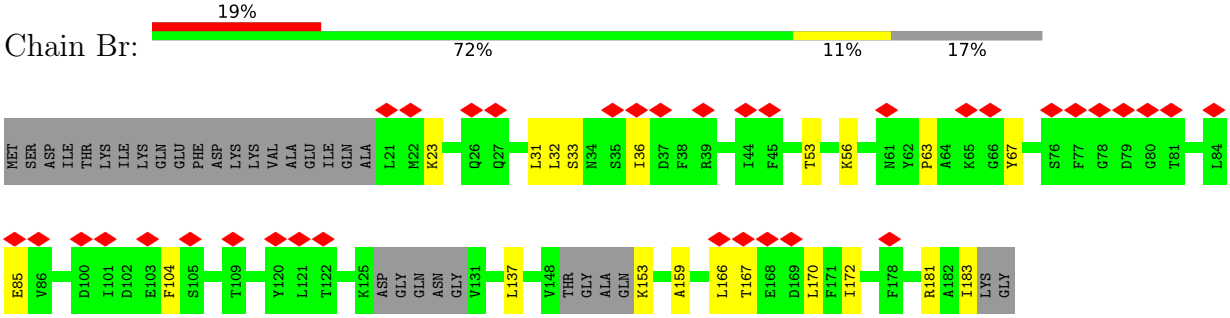
• Molecule 2: Decoration protein P03

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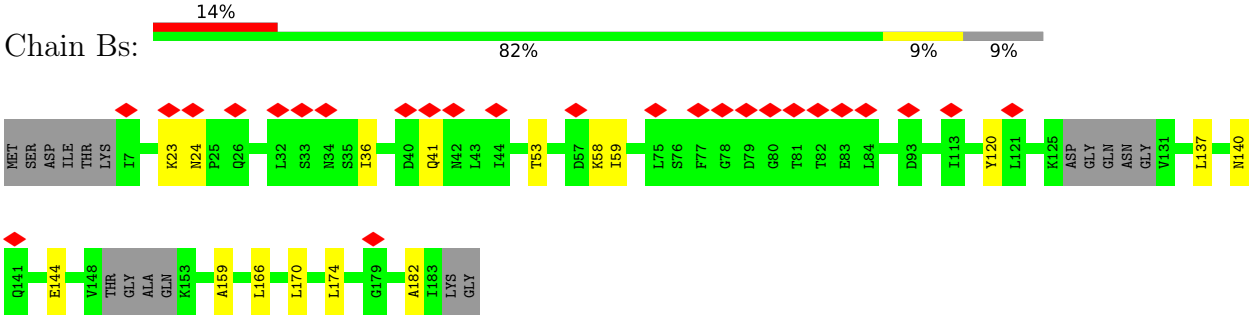
• Molecule 2: Decoration protein P03

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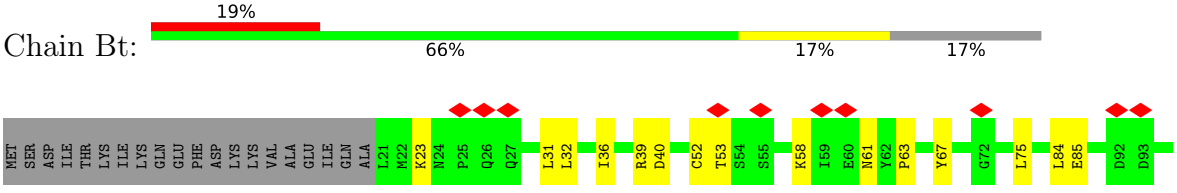
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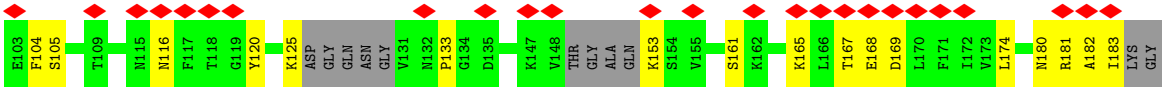
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• Molecule 2: Decoration protein P03

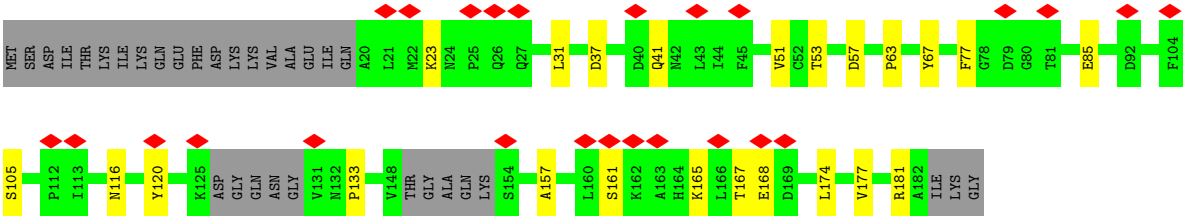
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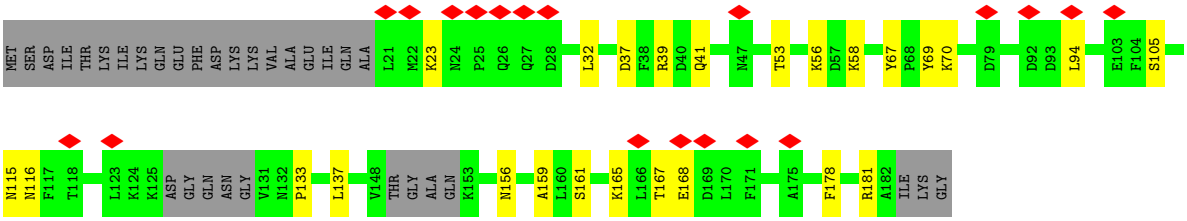
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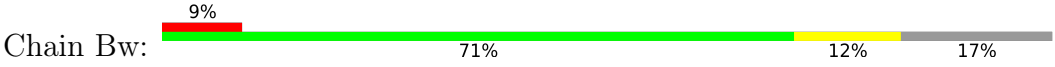


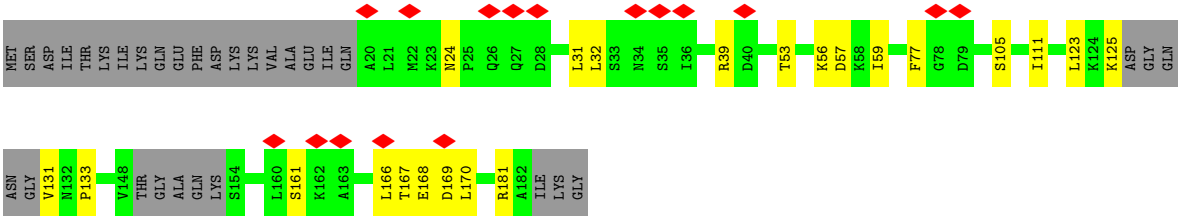
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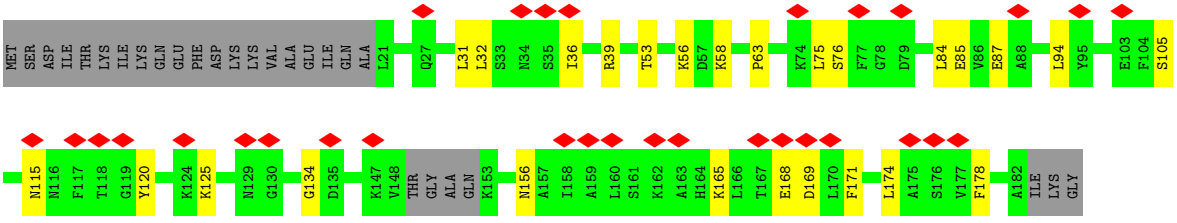
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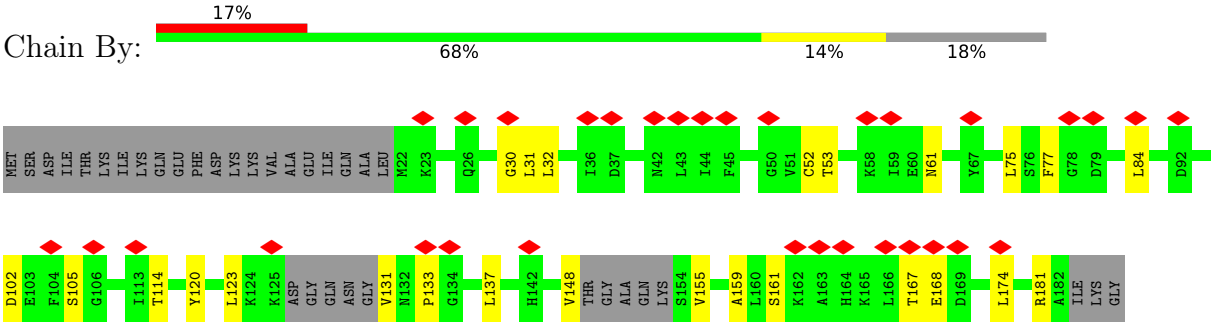
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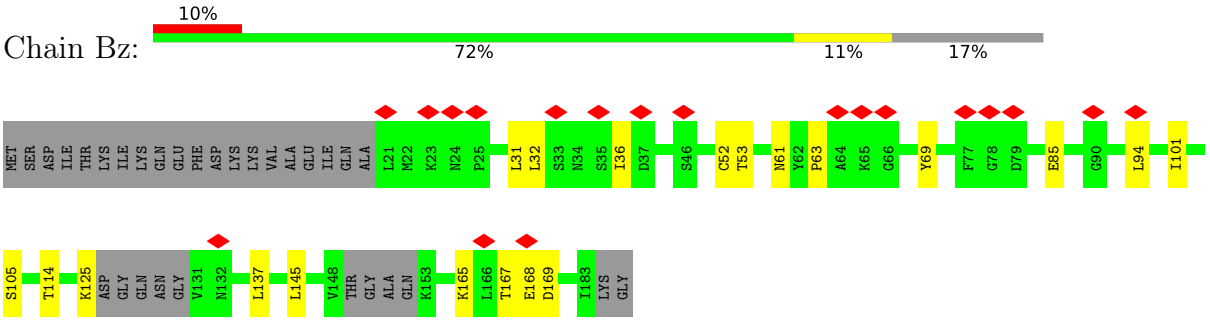
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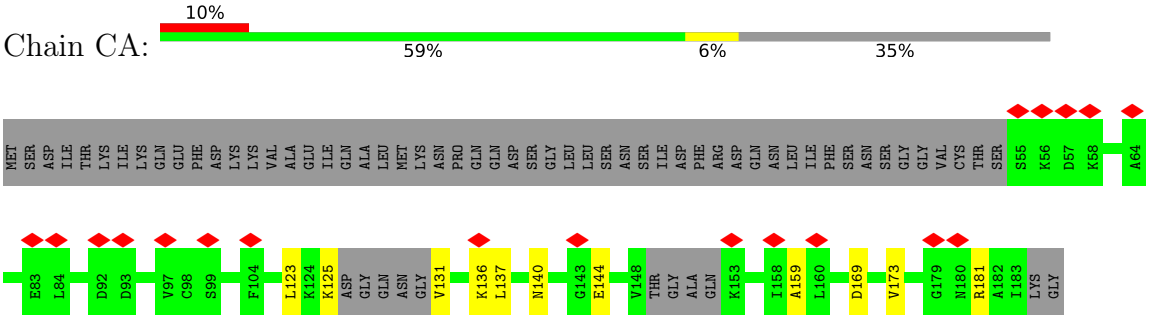
• Molecule 2: Decoration protein P03

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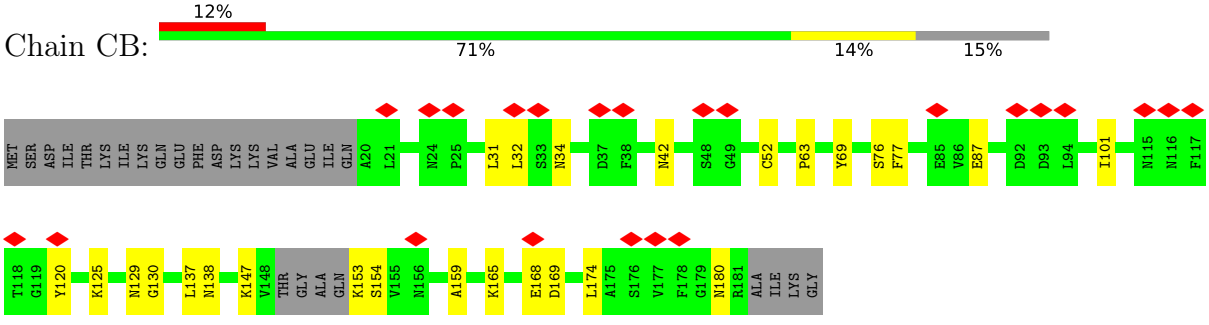
• Molecule 2: Decoration protein P03

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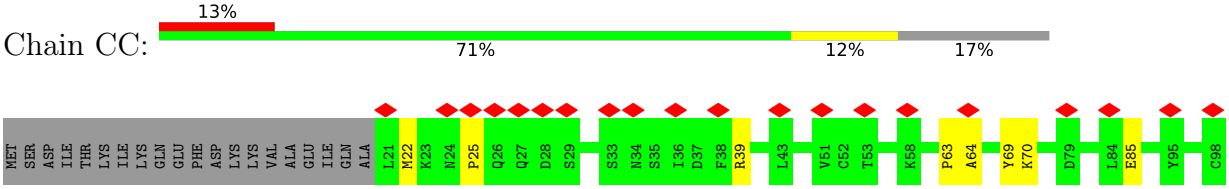
• Molecule 2: Decoration protein P03

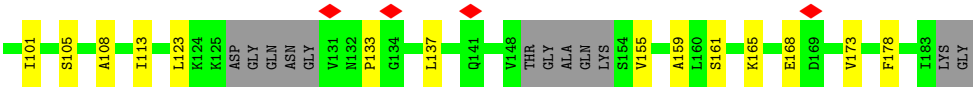
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• Molecule 2: Decoration protein P03

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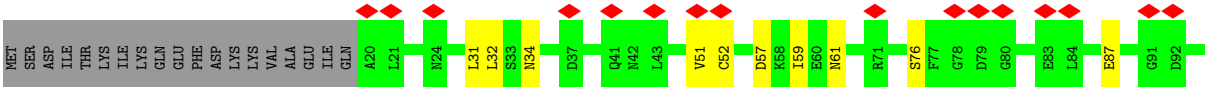


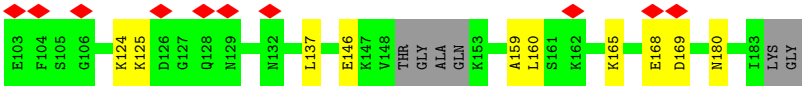


• Molecule 2: Decoration protein P03

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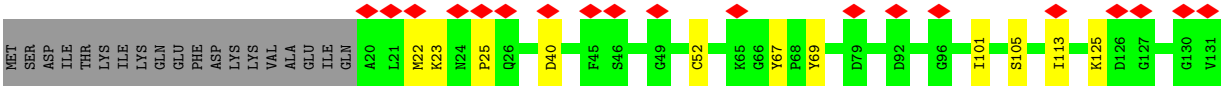


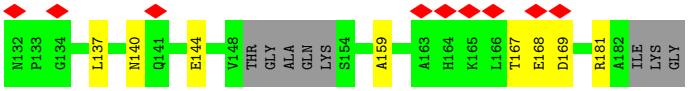


• Molecule 2: Decoration protein P03

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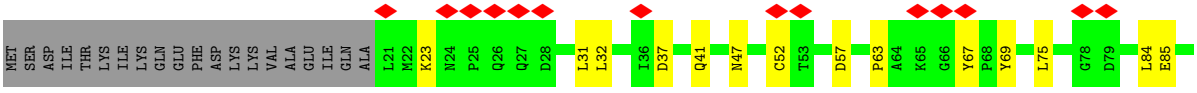




• Molecule 2: Decoration protein P03

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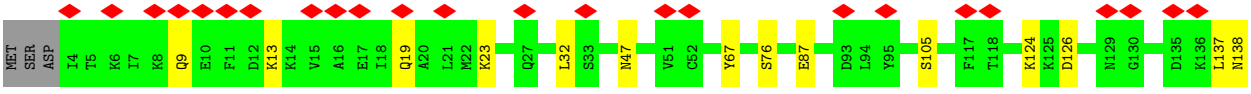


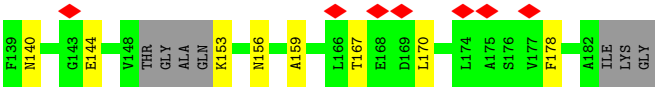


• Molecule 2: Decoration protein P03

Chain CG:

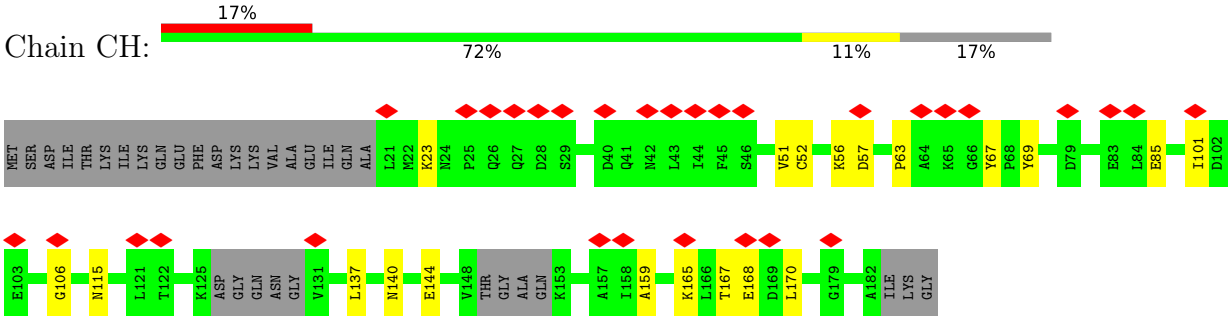






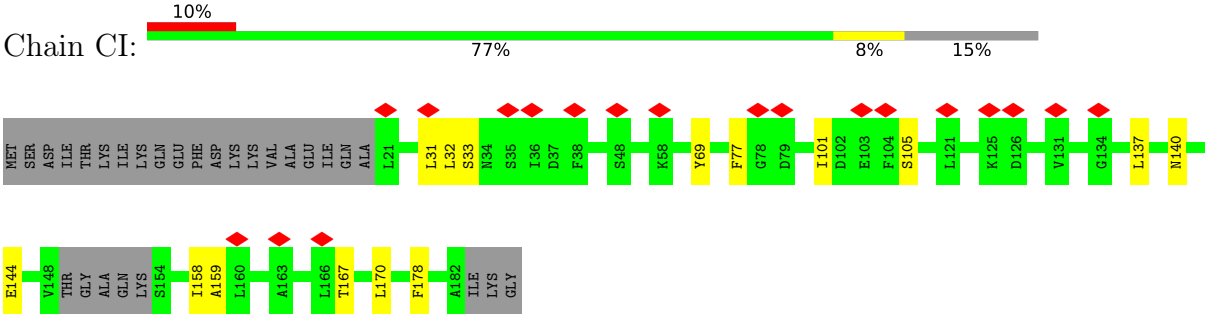
• Molecule 2: Decoration protein P03

Chain CH:



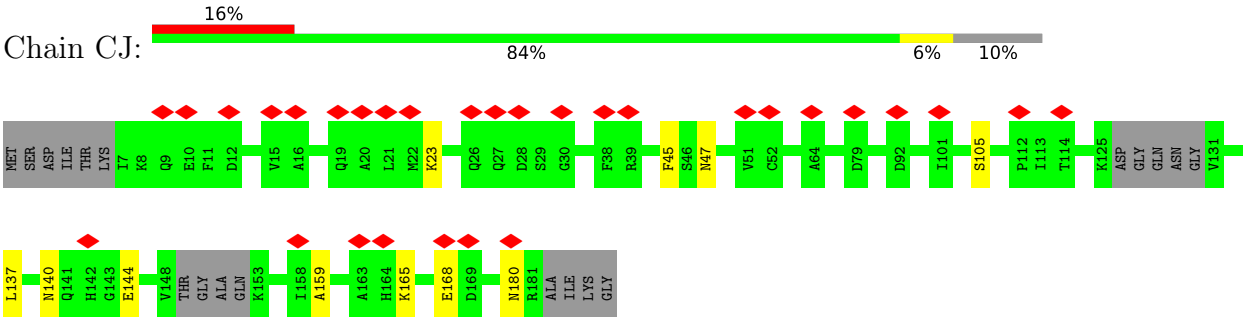
• Molecule 2: Decoration protein P03

Chain CI:



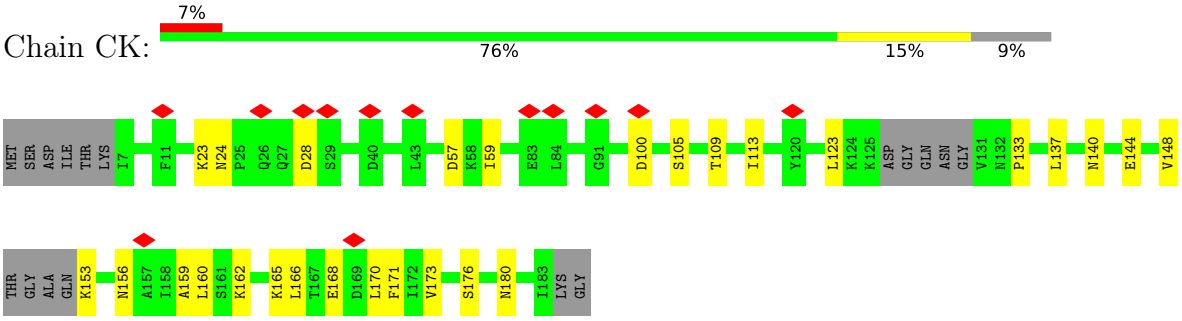
• Molecule 2: Decoration protein P03

Chain CJ:



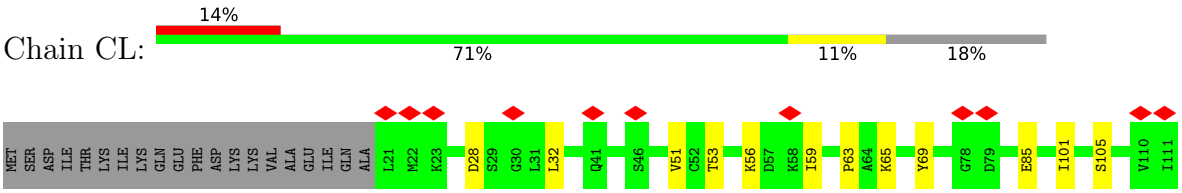
• Molecule 2: Decoration protein P03

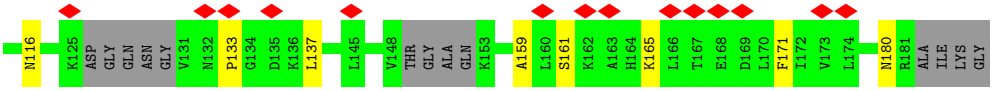
Chain CK:



• Molecule 2: Decoration protein P03

Chain CL:

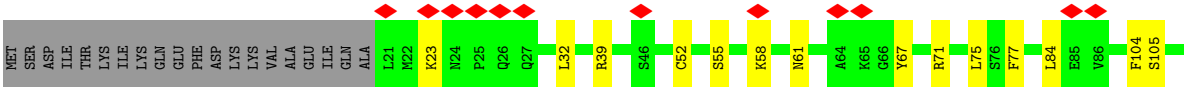


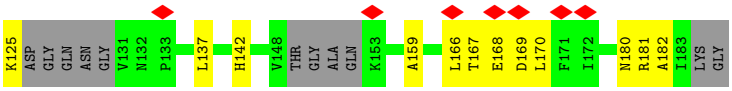


• Molecule 2: Decoration protein P03

Chain CM:



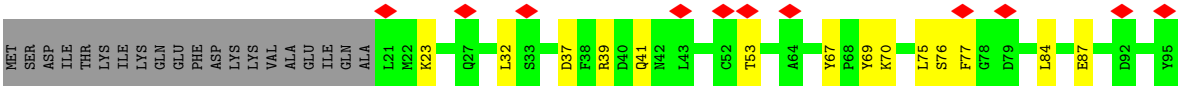


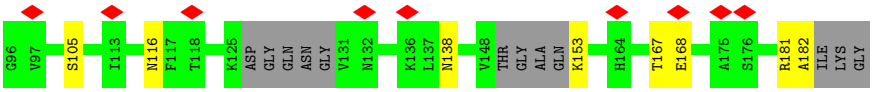


• Molecule 2: Decoration protein P03

Chain CN:



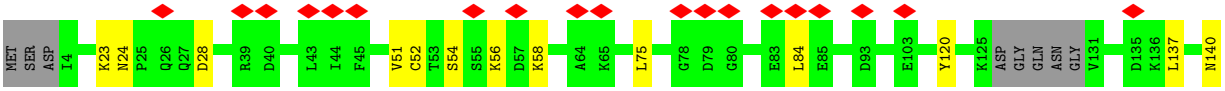


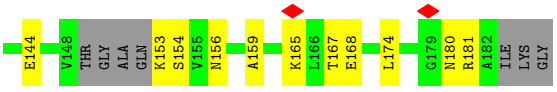


• Molecule 2: Decoration protein P03

Chain CO:



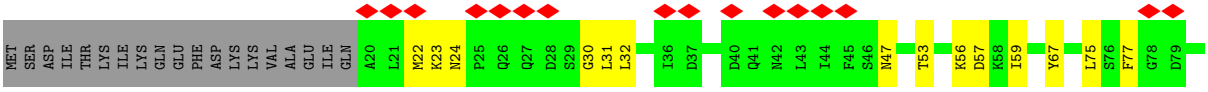


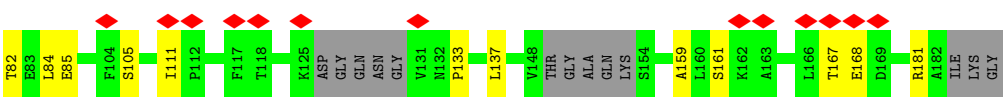


• Molecule 2: Decoration protein P03

Chain CP:

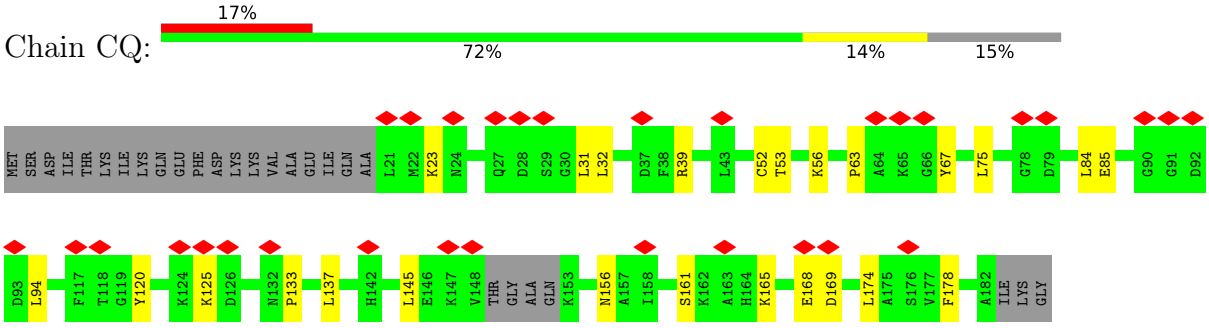






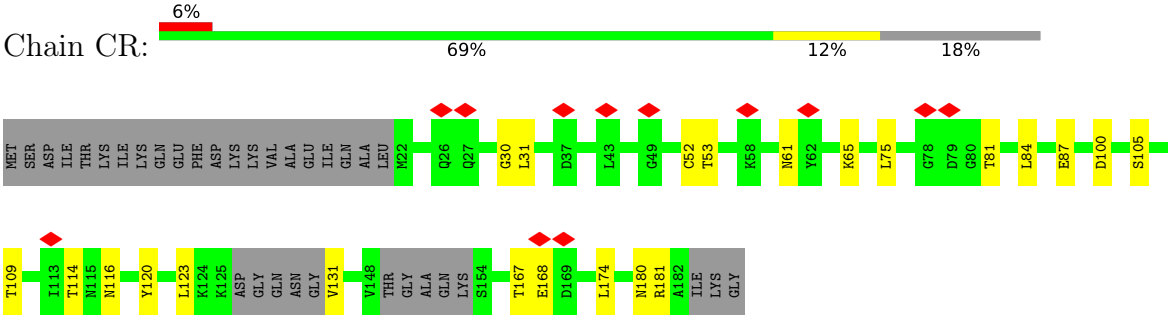
• Molecule 2: Decoration protein P03

Chain CQ:



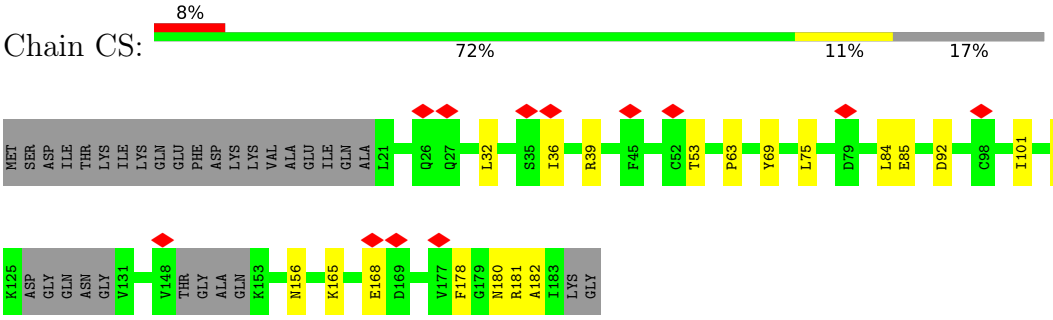
• Molecule 2: Decoration protein P03

Chain CR:



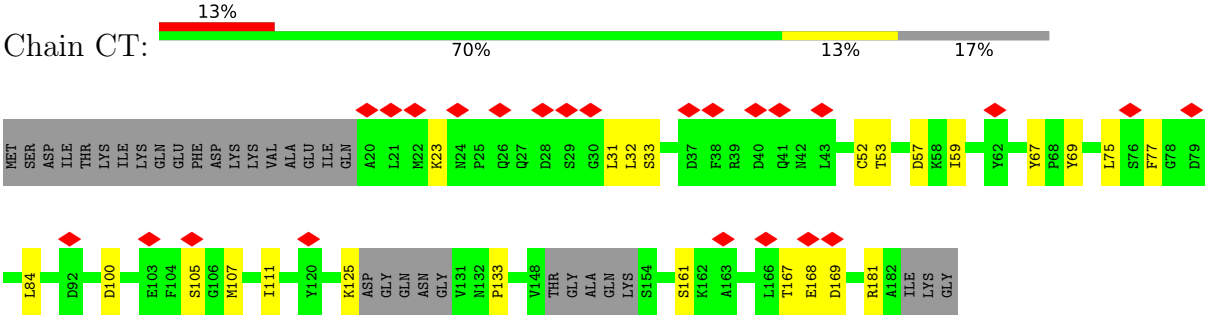
• Molecule 2: Decoration protein P03

Chain CS:



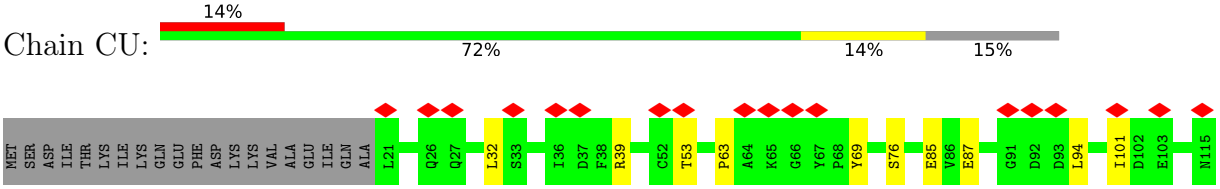
• Molecule 2: Decoration protein P03

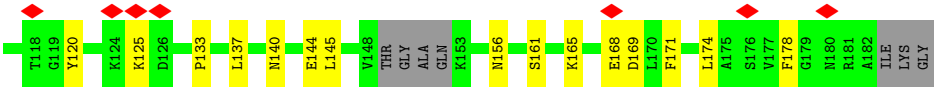
Chain CT:



• Molecule 2: Decoration protein P03

Chain CU:

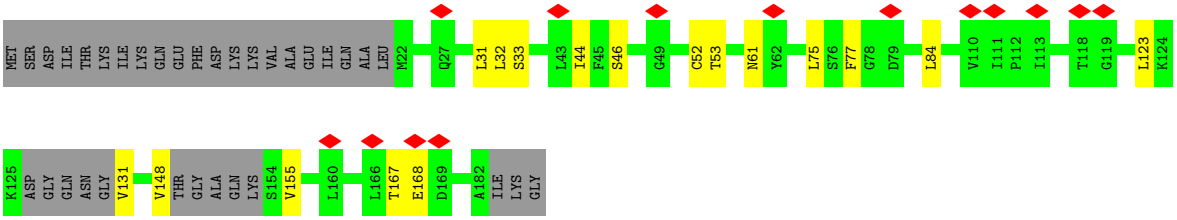




• Molecule 2: Decoration protein P03

Chain CV:

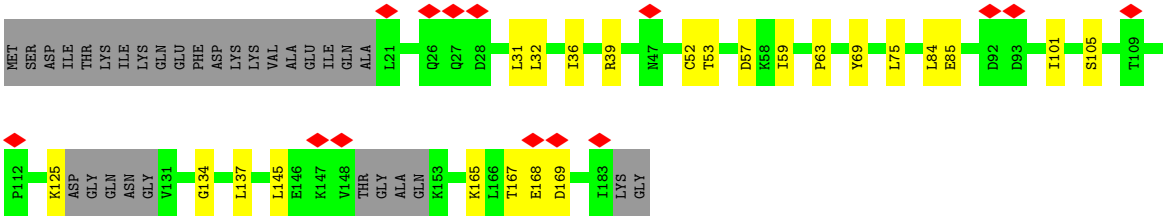




• Molecule 2: Decoration protein P03

Chain CW:

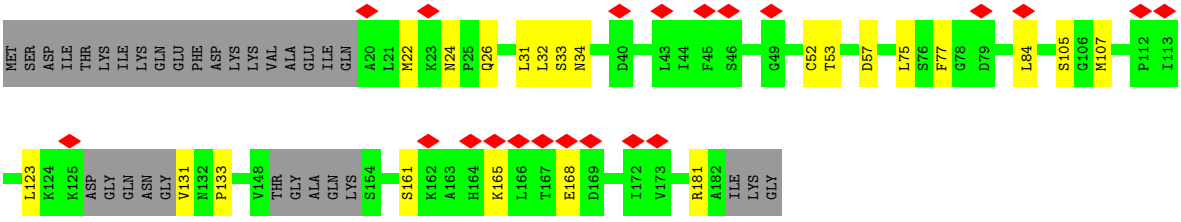




• Molecule 2: Decoration protein P03

Chain CX:

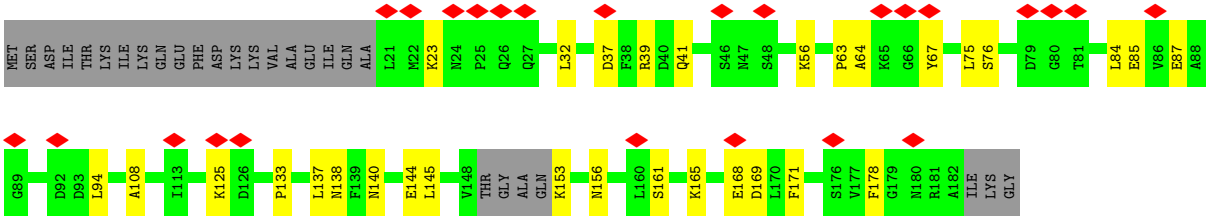




• Molecule 2: Decoration protein P03

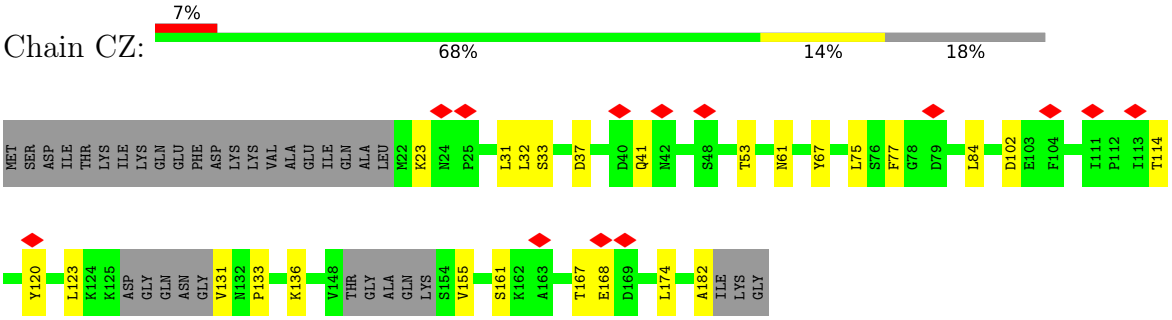
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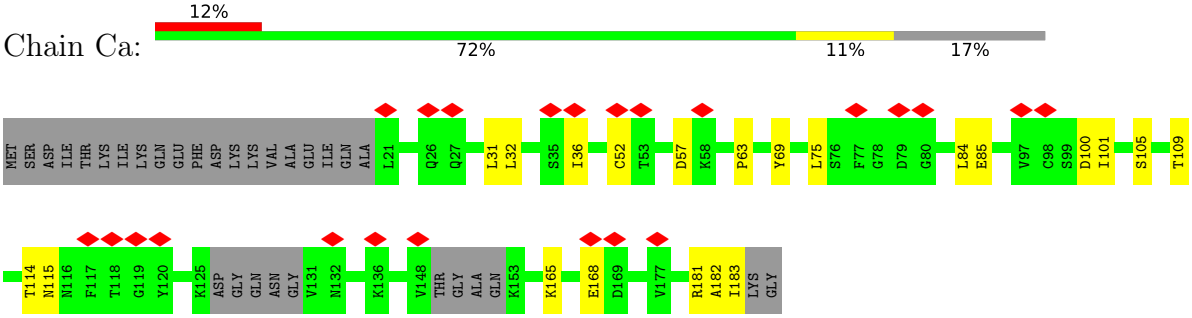
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Chain CZ:



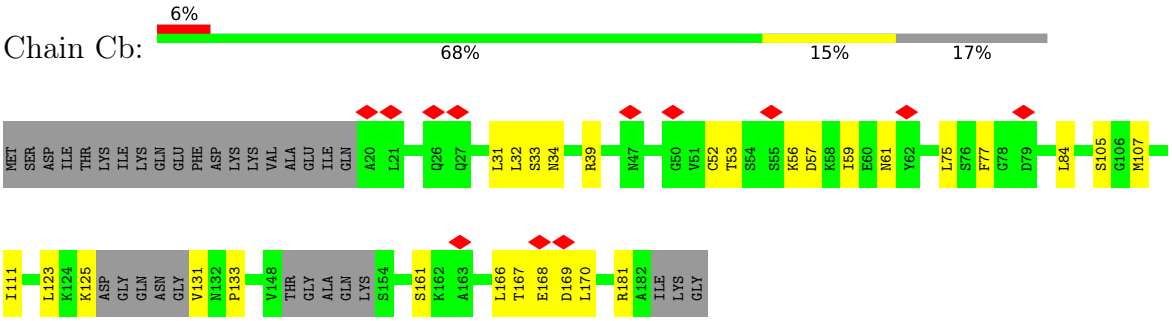
• Molecule 2: Decoration protein P03

Chain Ca:



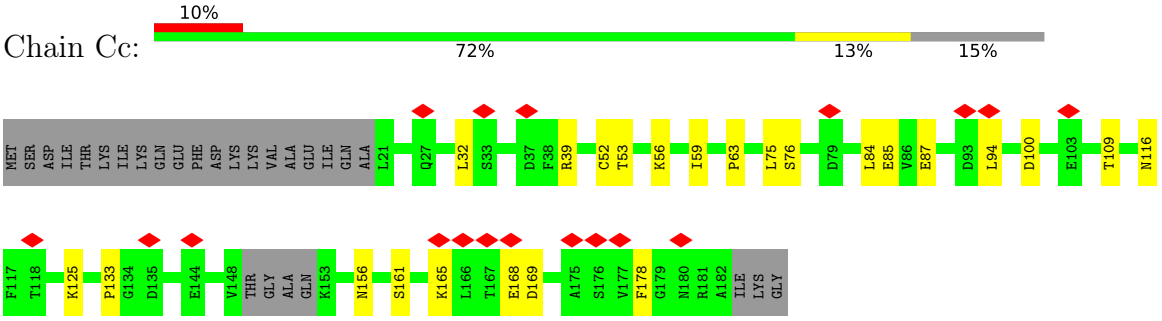
• Molecule 2: Decoration protein P03

Chain Cb:



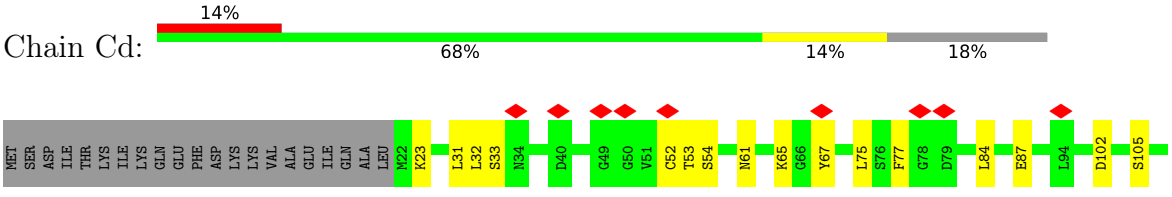
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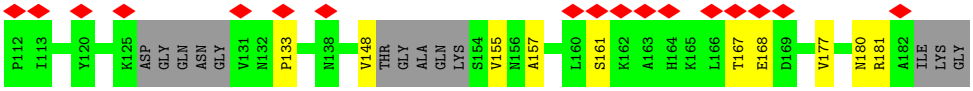
Chain Cc:



• Molecule 2: Decoration protein P03

Chain Cd:

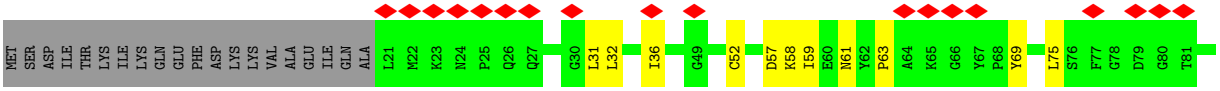


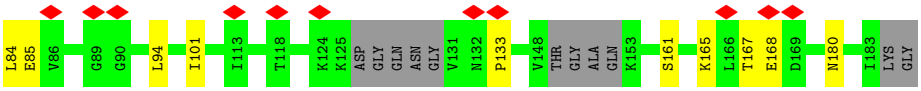


• Molecule 2: Decoration protein P03

Chain Ce:



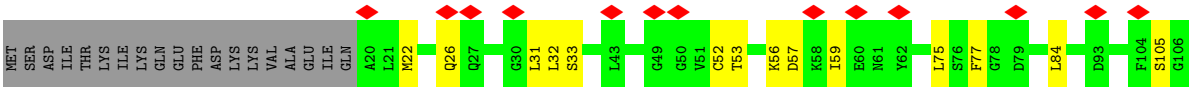


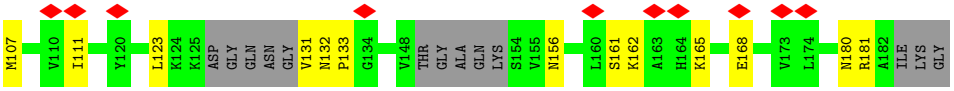


• Molecule 2: Decoration protein P03

Chain Cf:



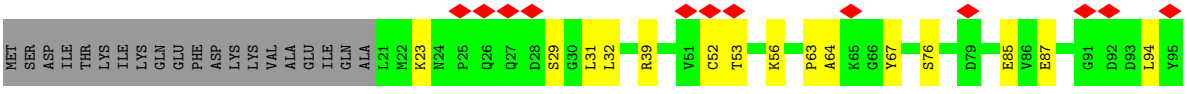




• Molecule 2: Decoration protein P03

Chain Cg:



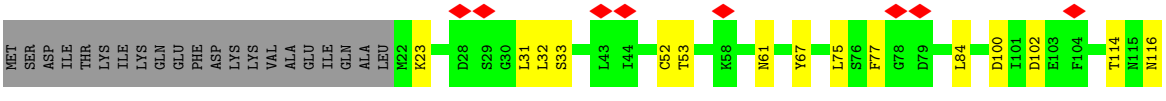


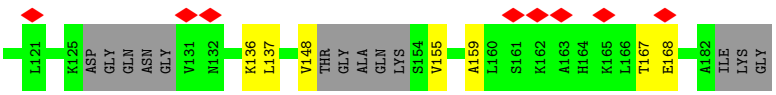


• Molecule 2: Decoration protein P03

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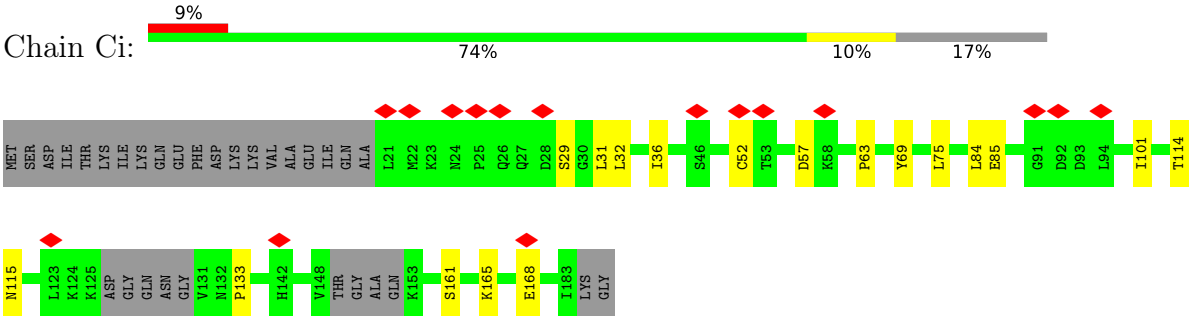






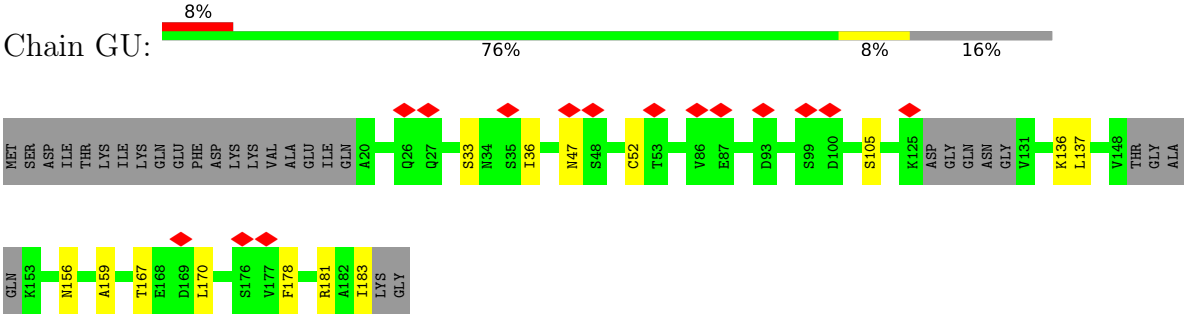
• Molecule 2: Decoration protein P03

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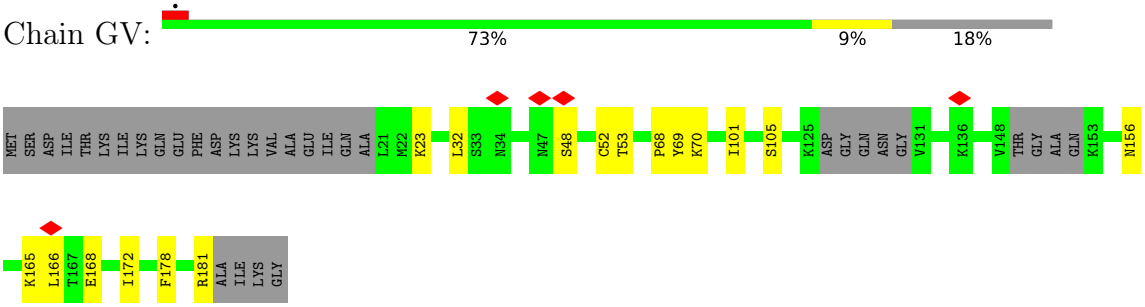
• Molecule 2: Decoration protein P03

Chain GU:



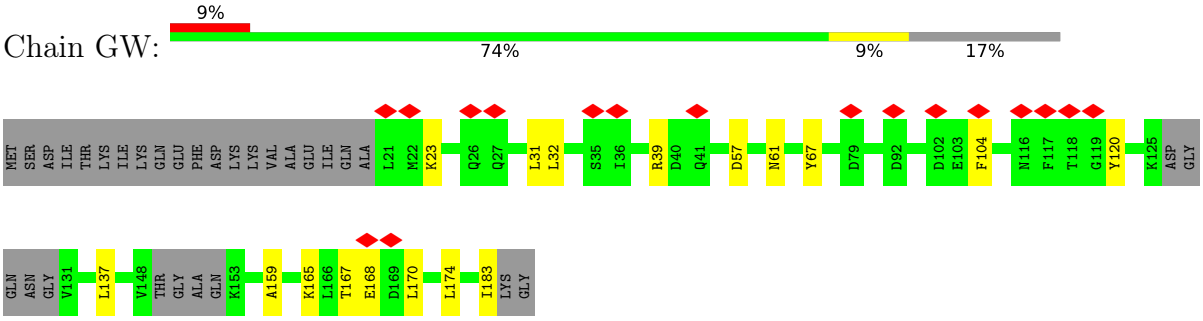
• Molecule 2: Decoration protein P03

Chain GV:



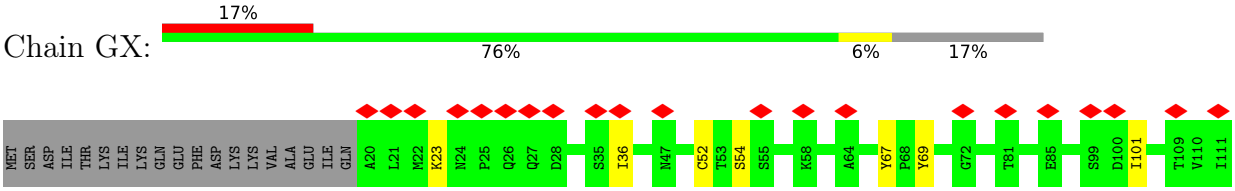
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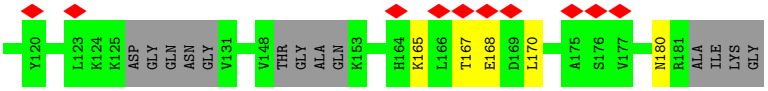
Chain GW:



• Molecule 2: Decoration protein P03

Chain GX:

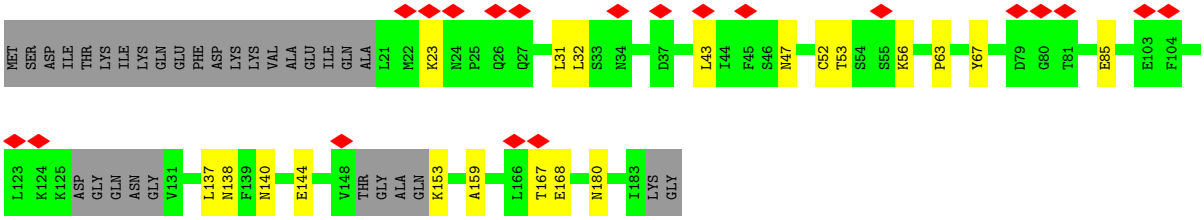




• Molecule 2: Decoration protein P03

Chain GY:

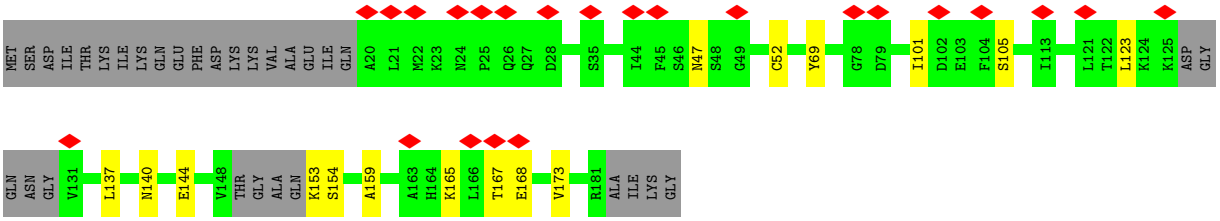




• Molecule 2: Decoration protein P03

Chain GZ:

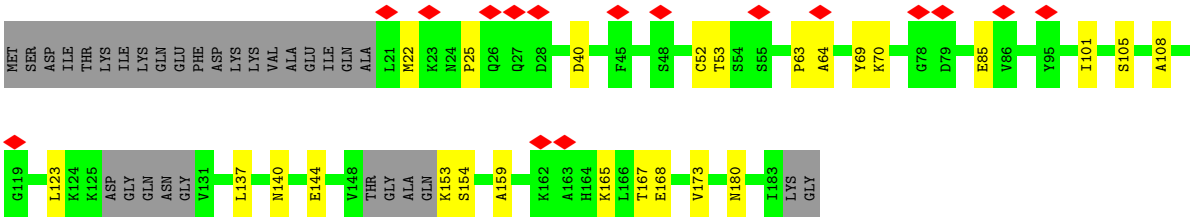




• Molecule 2: Decoration protein P03

Chain Ga:

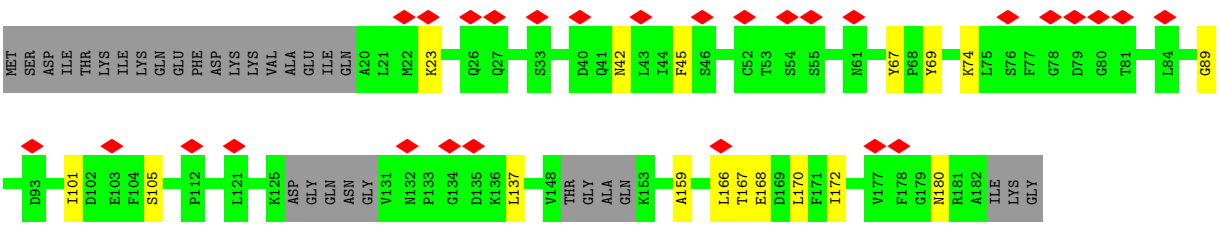




• Molecule 2: Decoration protein P03

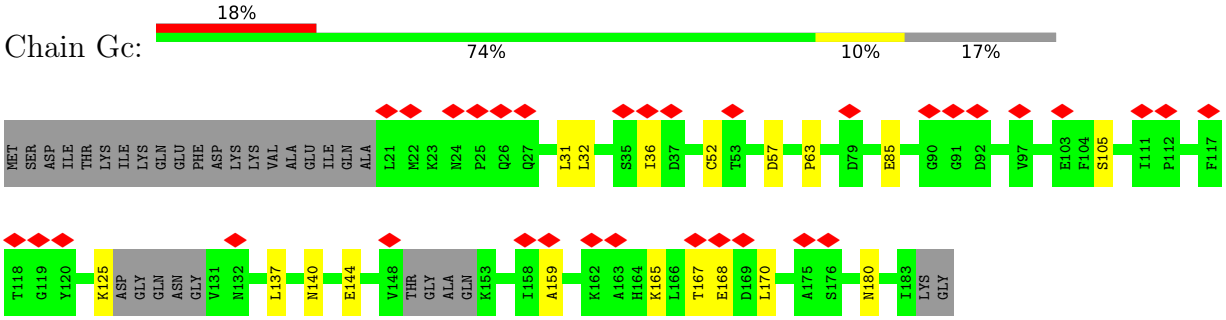
Chain Gb:





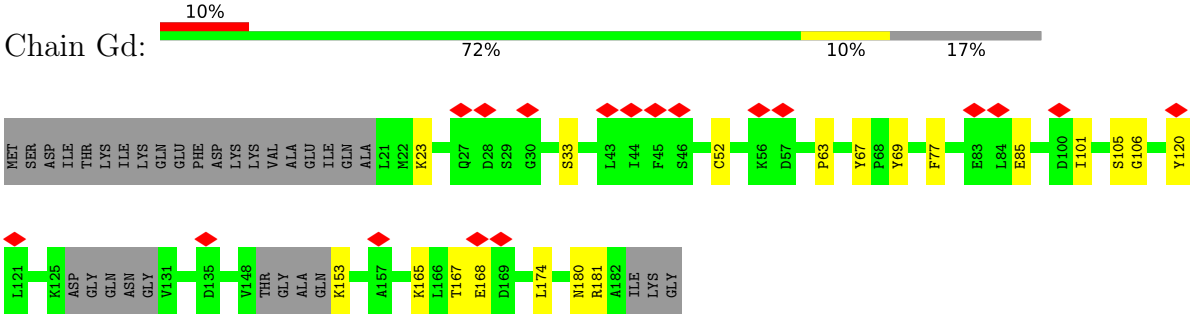
• Molecule 2: Decoration protein P03

Chain Gc:



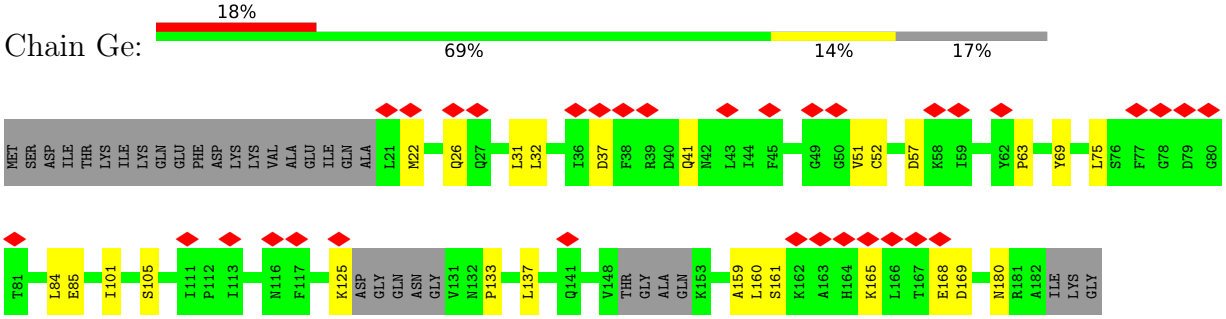
• Molecule 2: Decoration protein P03

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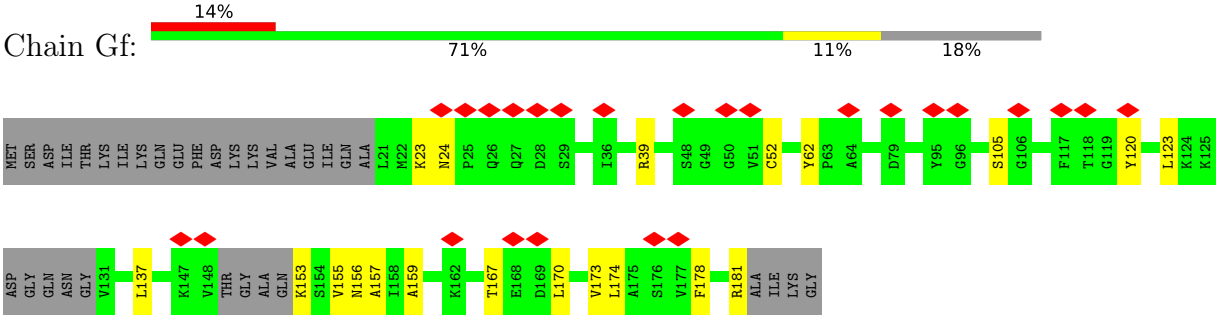
• Molecule 2: Decoration protein P03

Chain Ge:



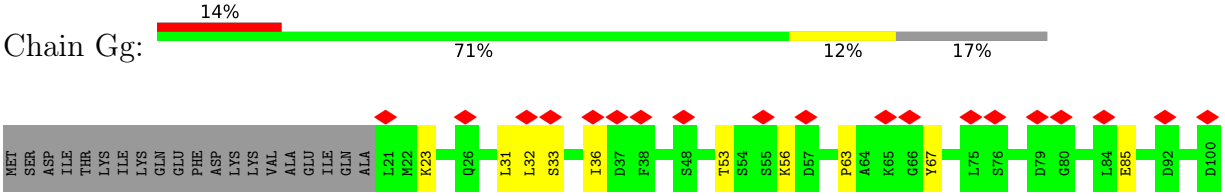
• Molecule 2: Decoration protein P03

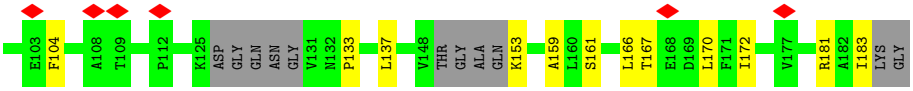
Chain Gf:



• Molecule 2: Decoration protein P03

Chain Gg:

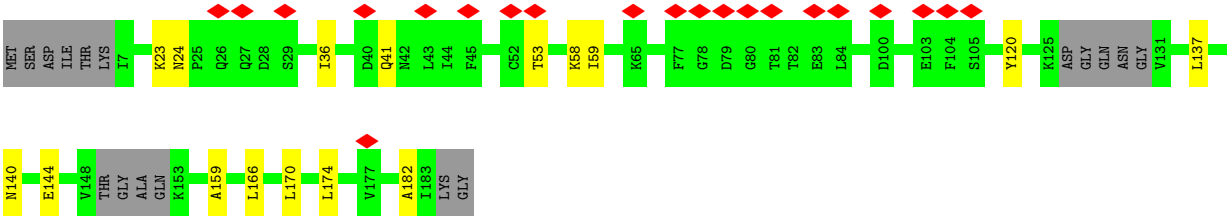




• Molecule 2: Decoration protein P03

Chain Gh:

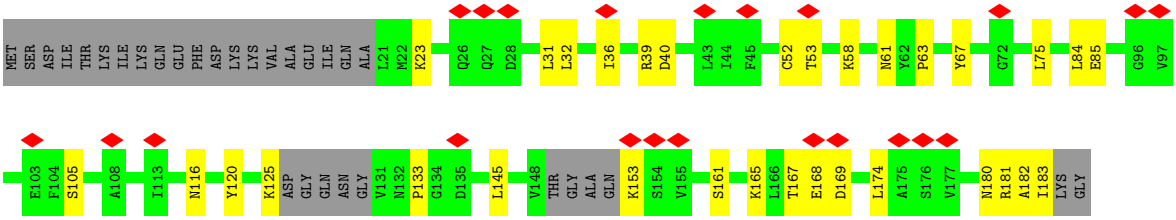




• Molecule 2: Decoration protein P03

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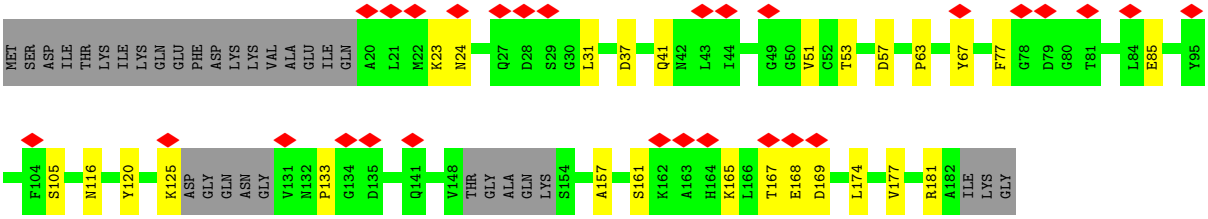




• Molecule 2: Decoration protein P03

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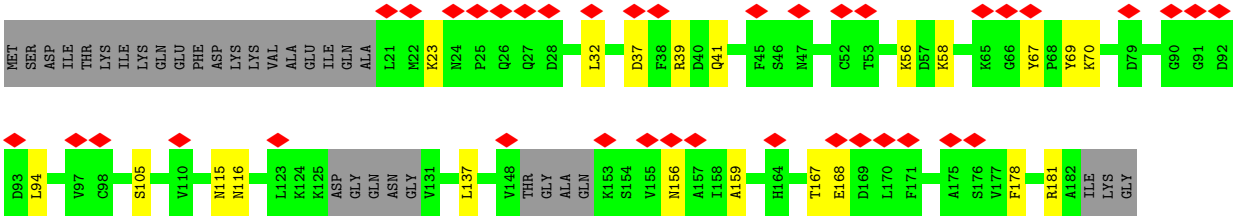




• Molecule 2: Decoration protein P03

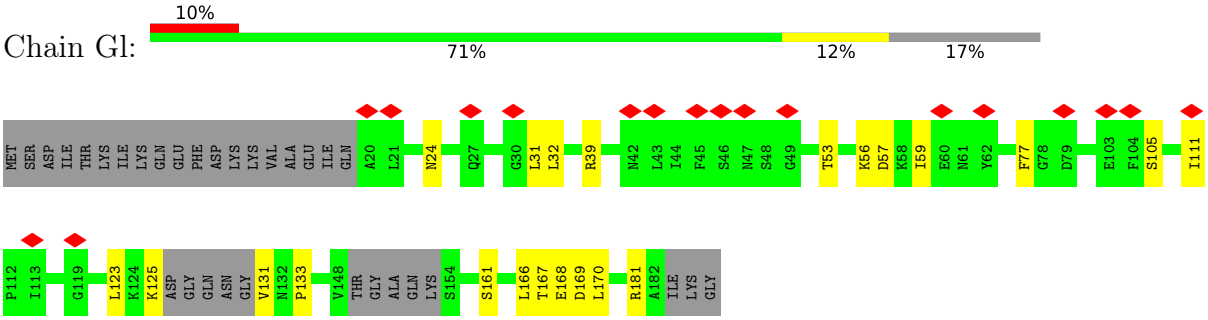
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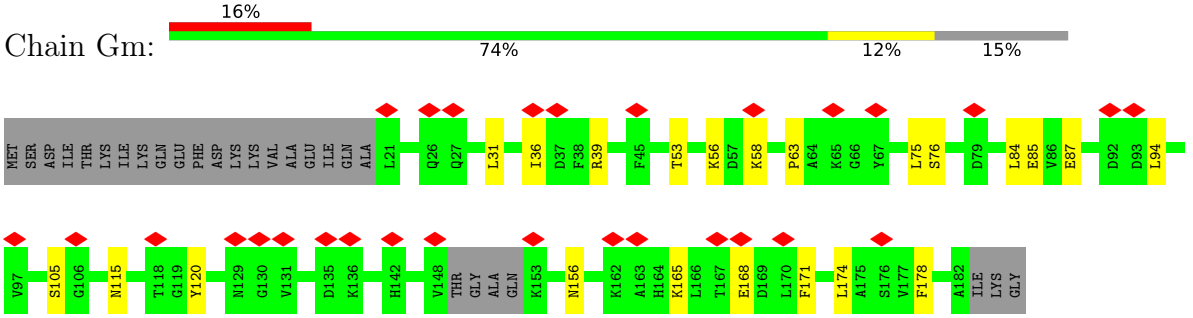
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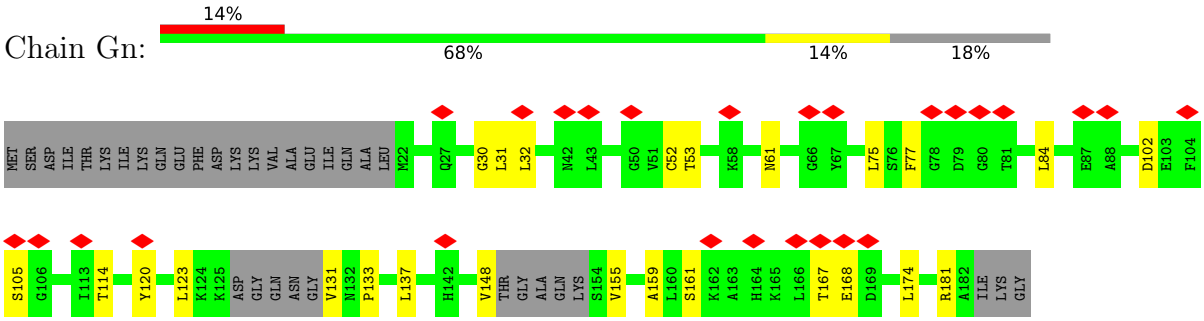
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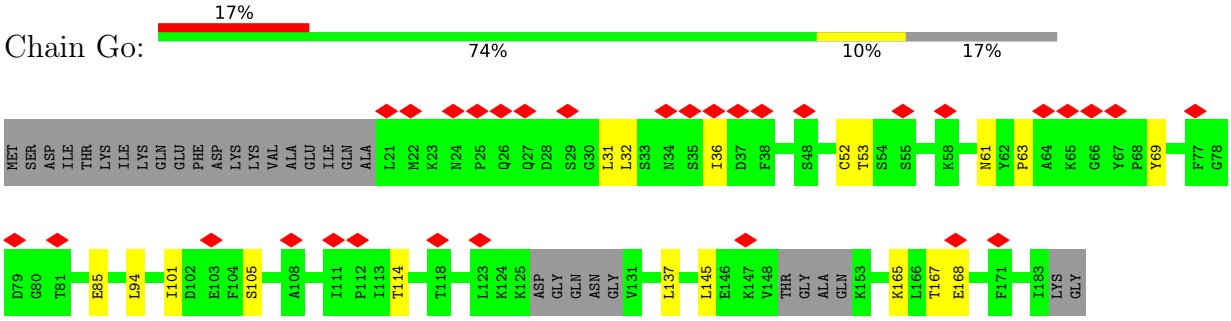
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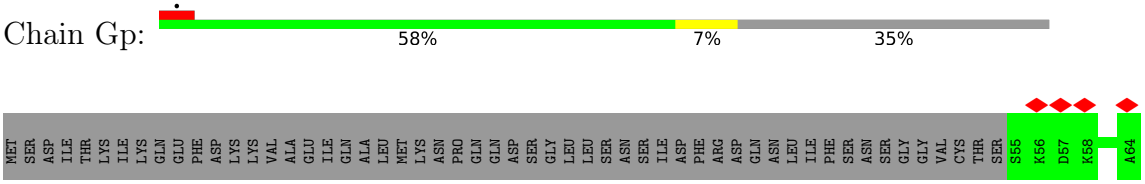
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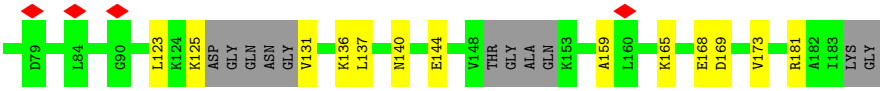
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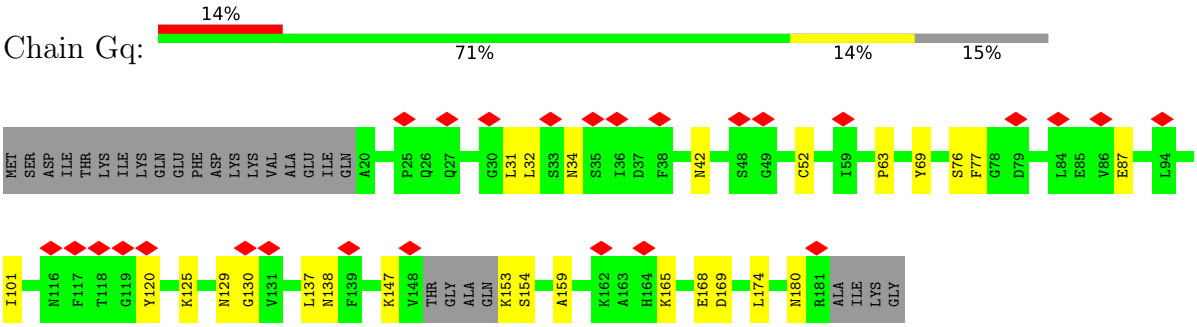
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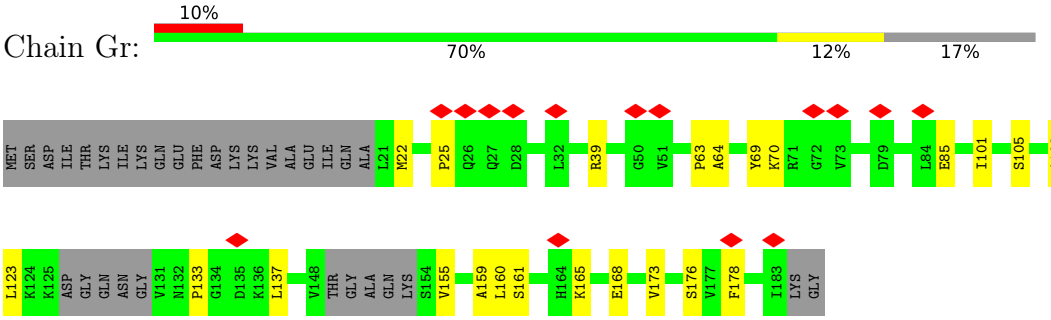




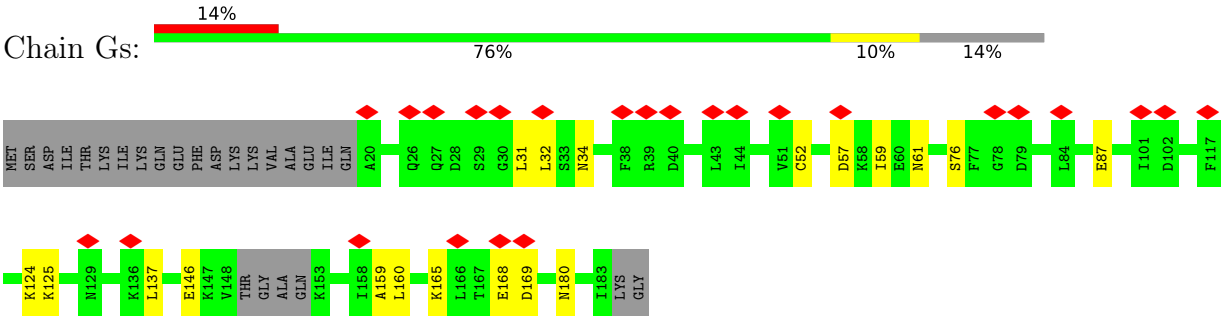
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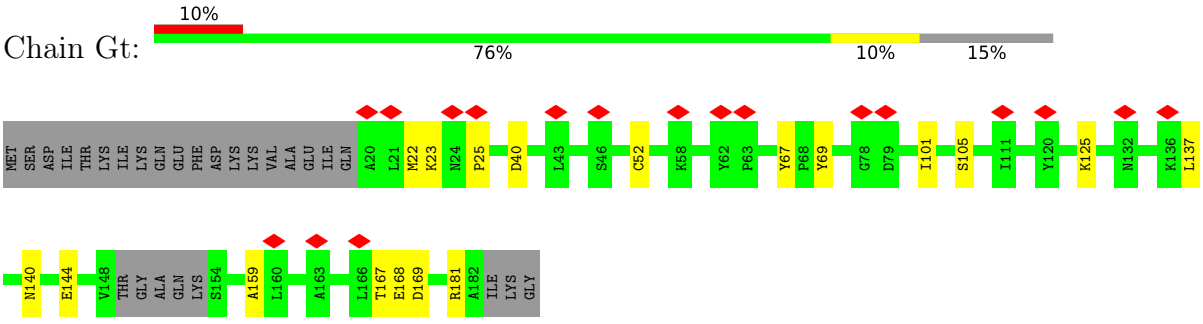
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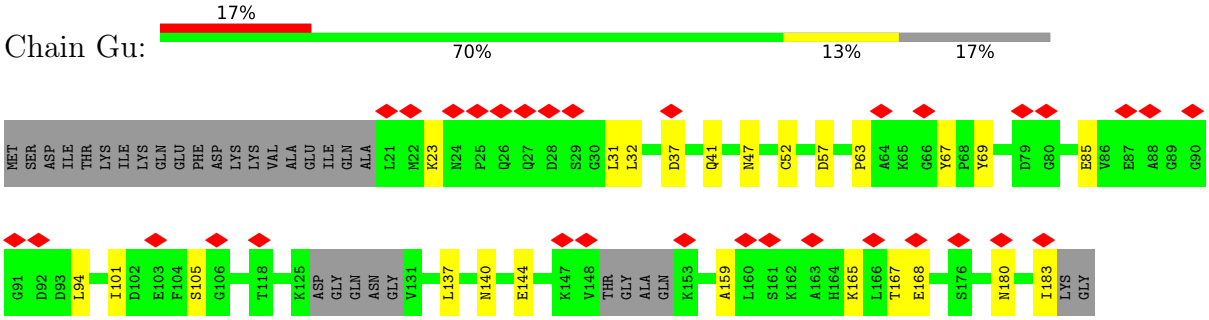


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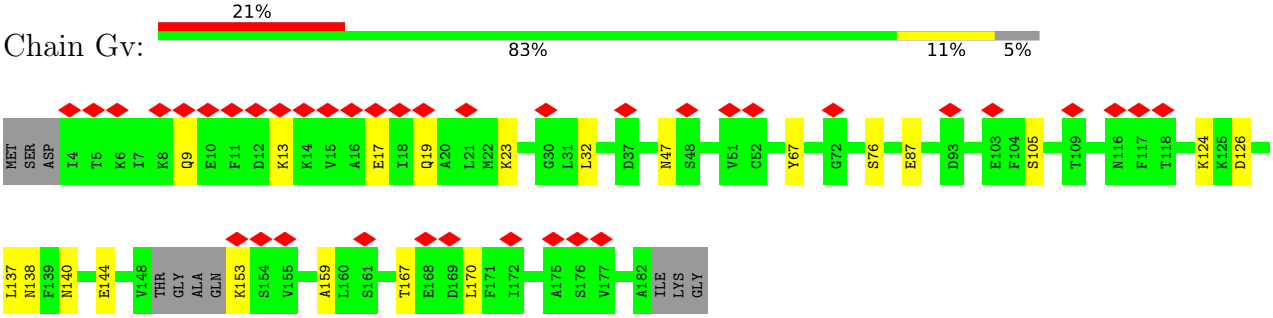
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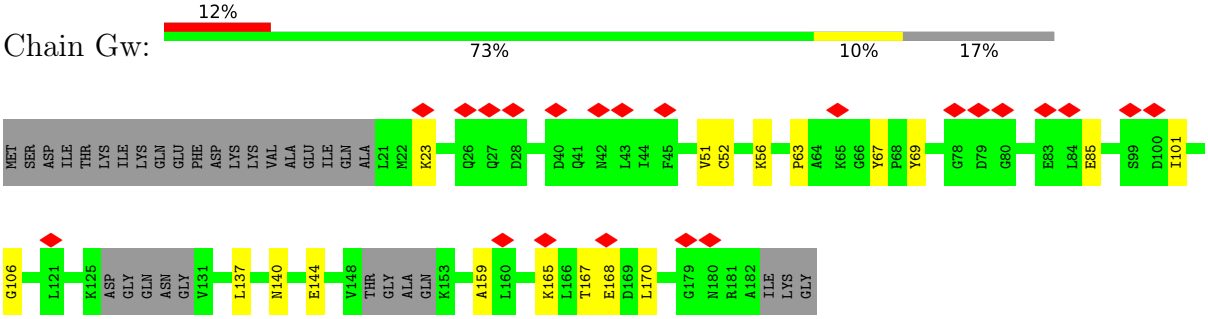
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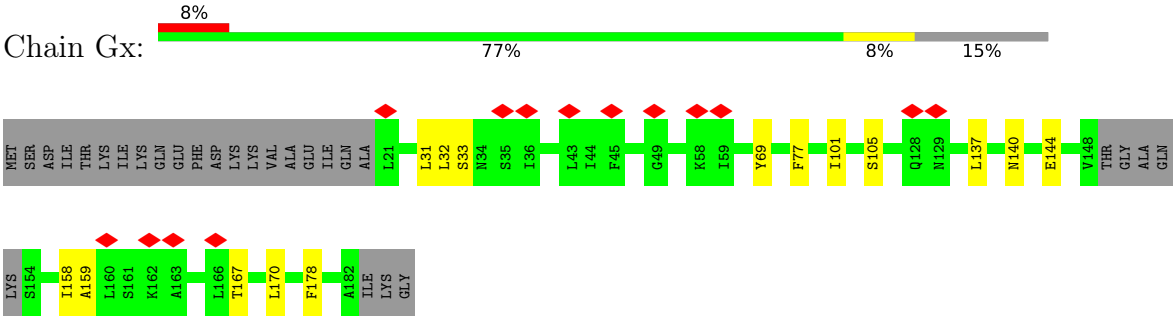
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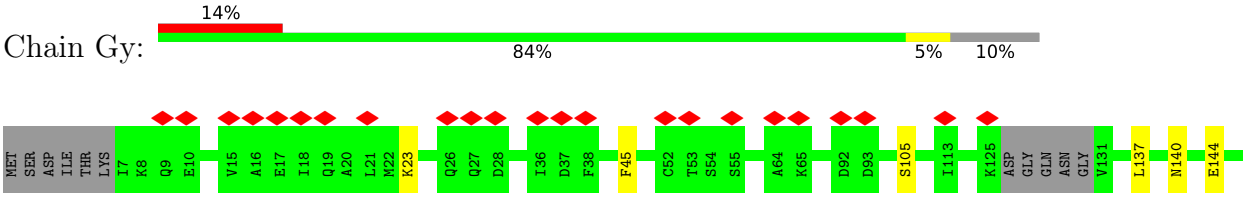
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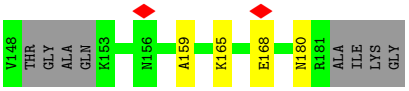
Chain Gx:



• Molecule 2: Decoration protein P03

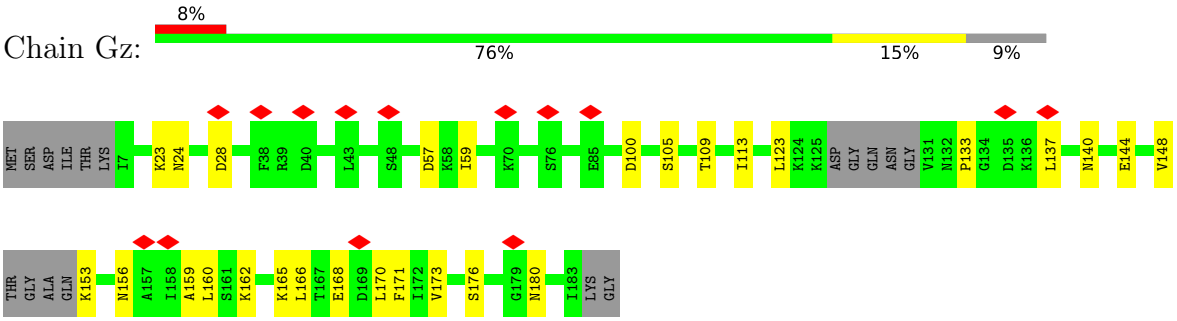
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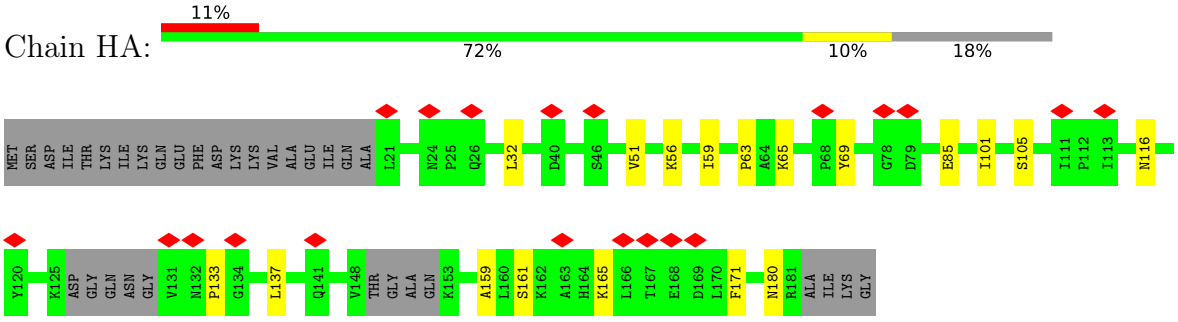
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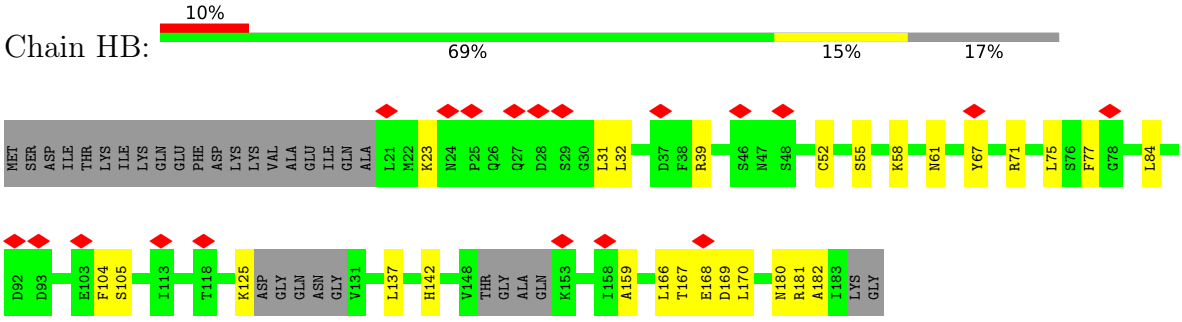
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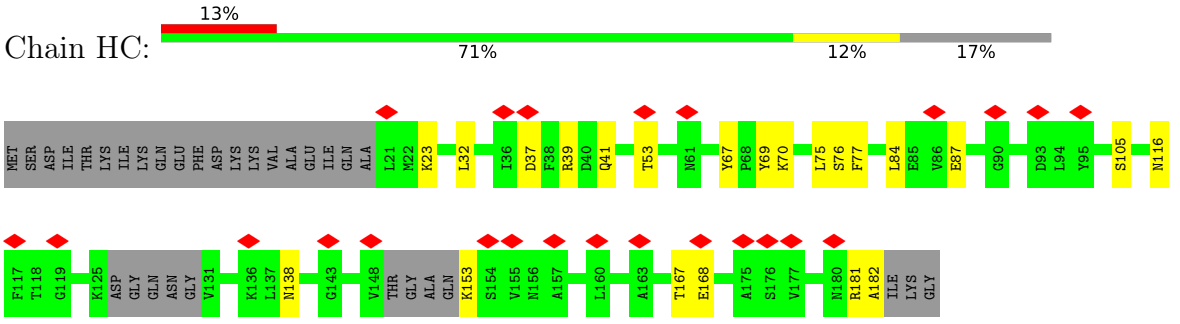
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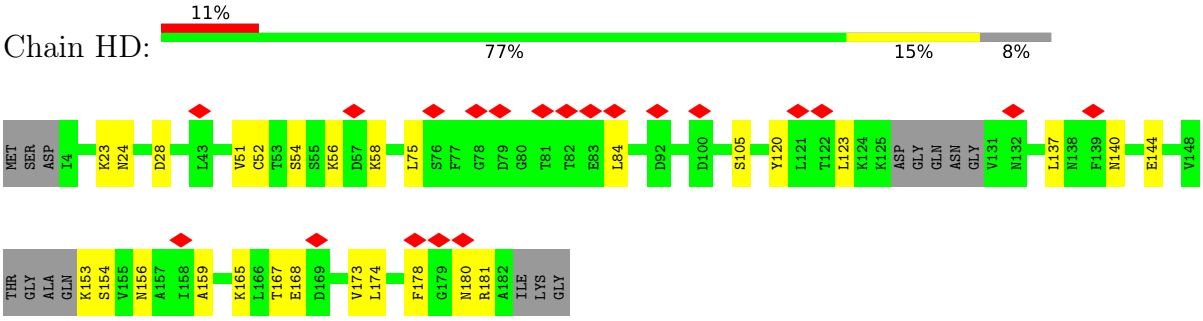
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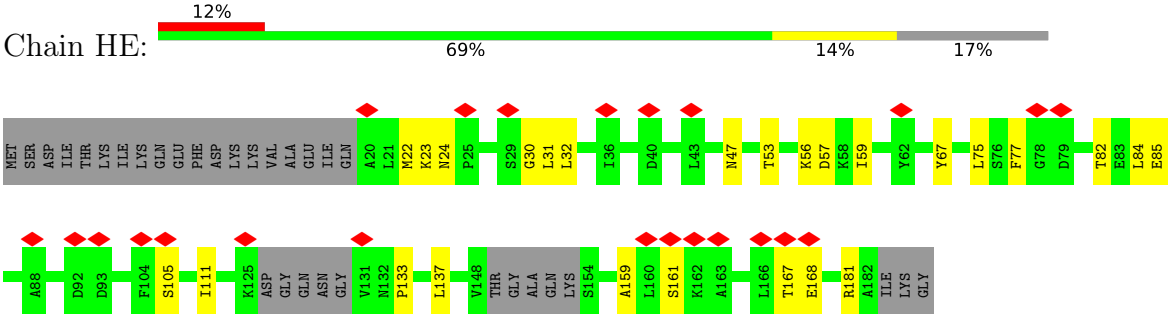
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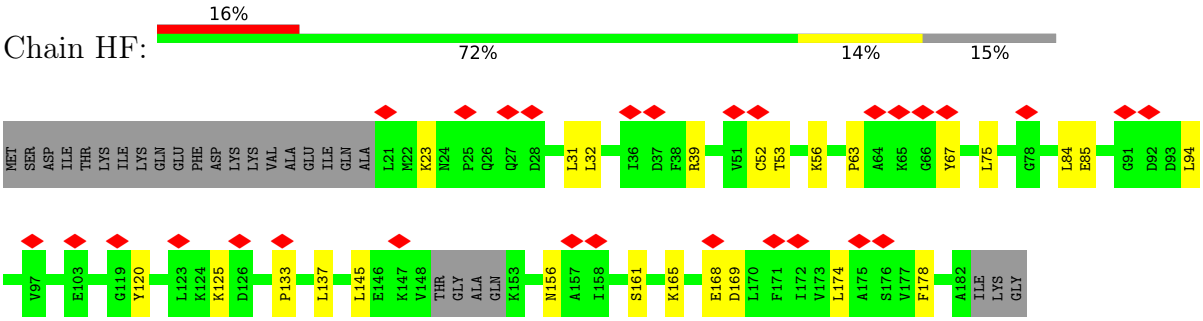
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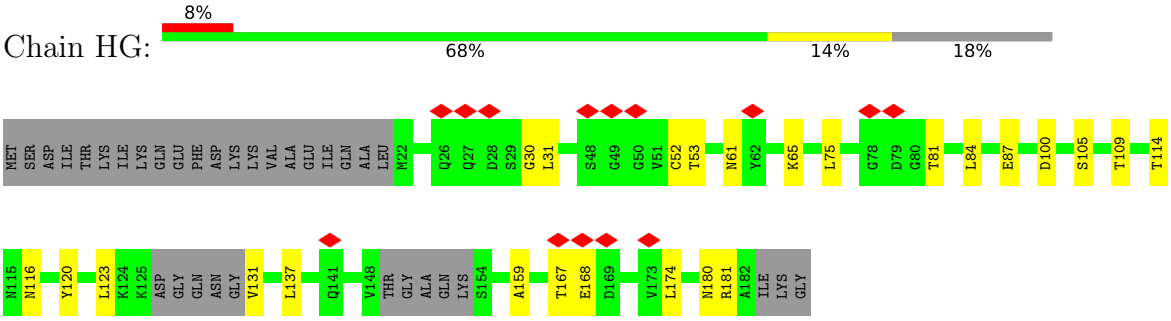
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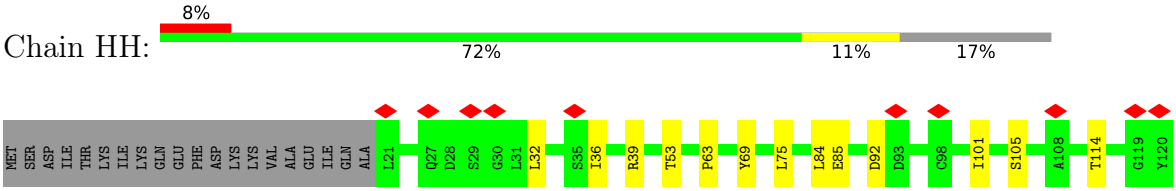
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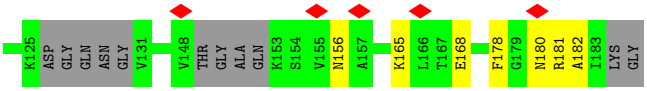
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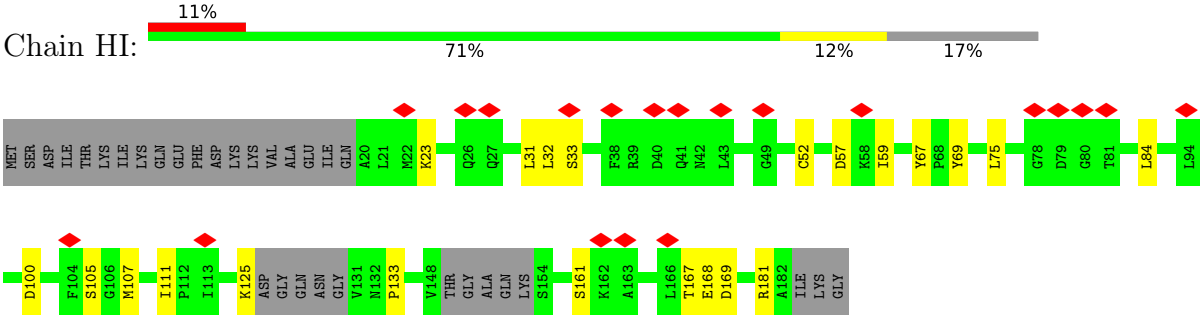
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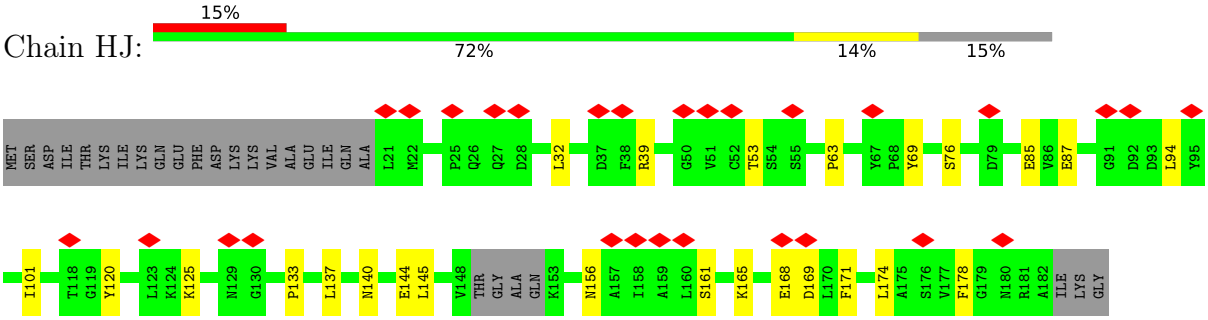
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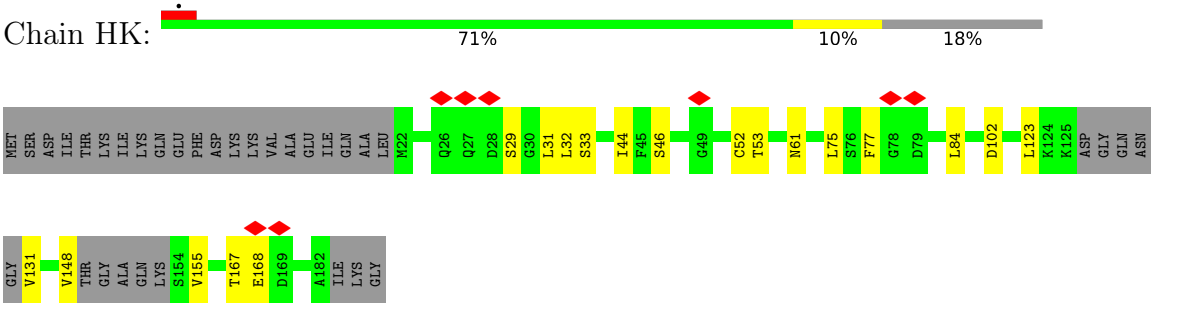
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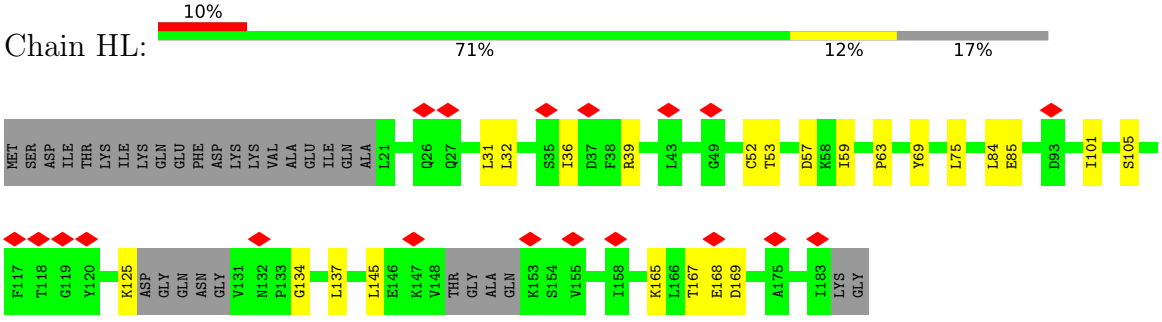
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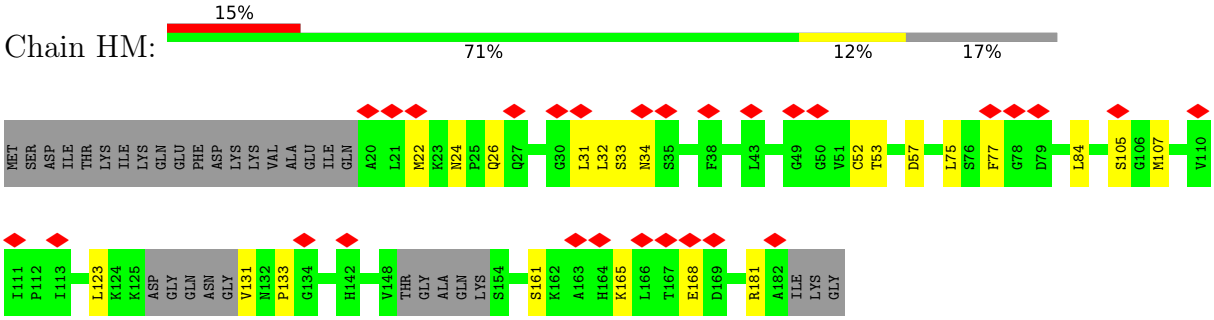
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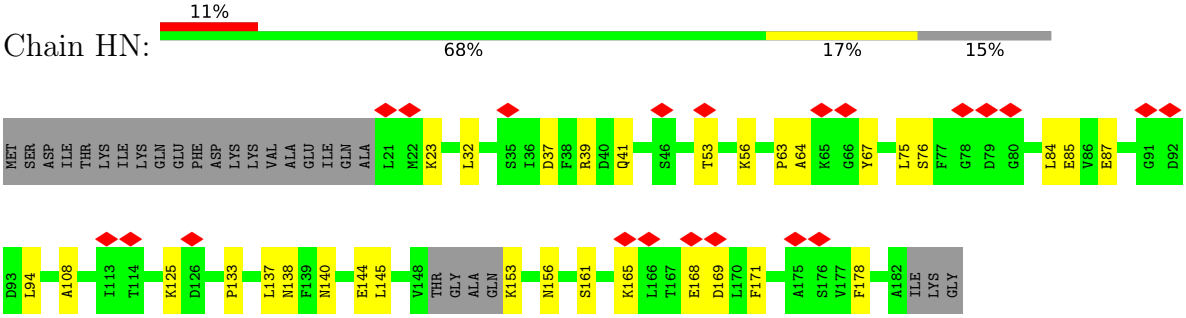
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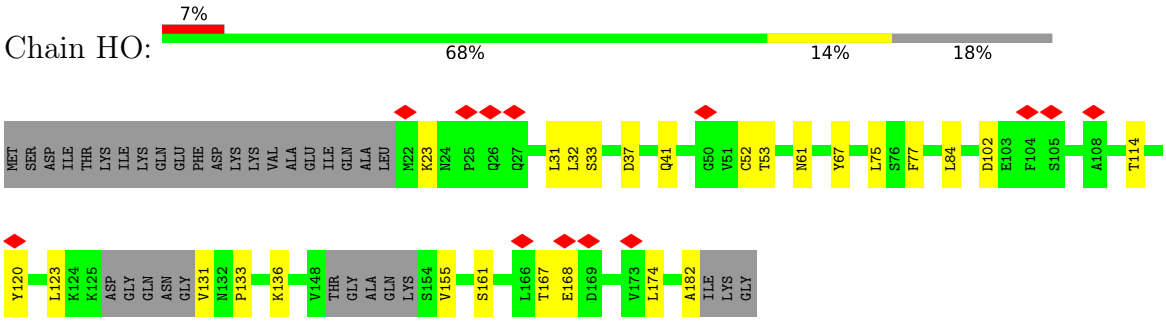
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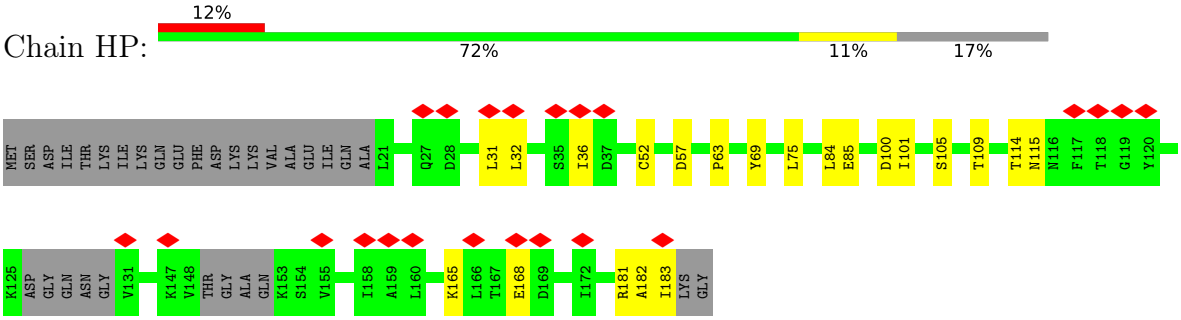
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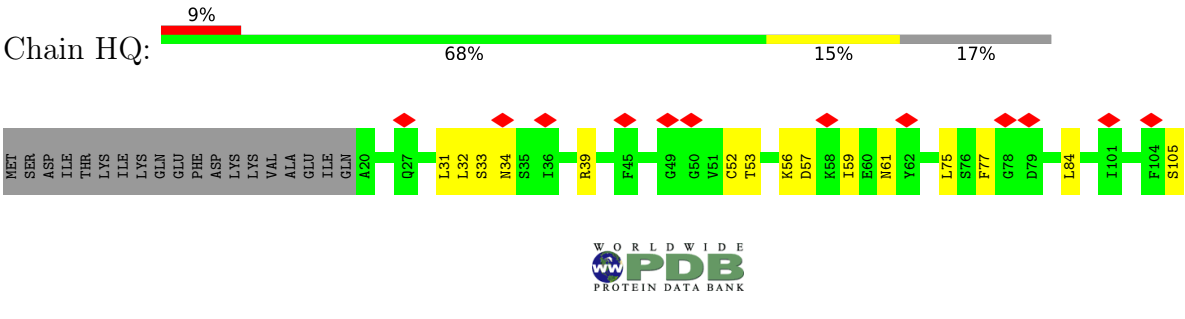
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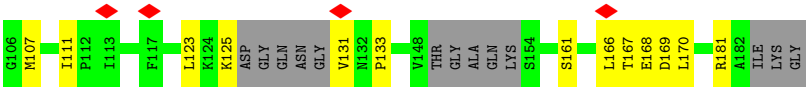
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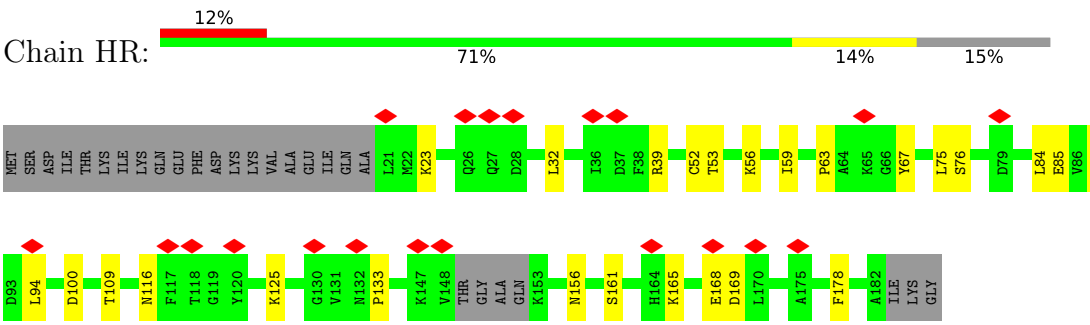
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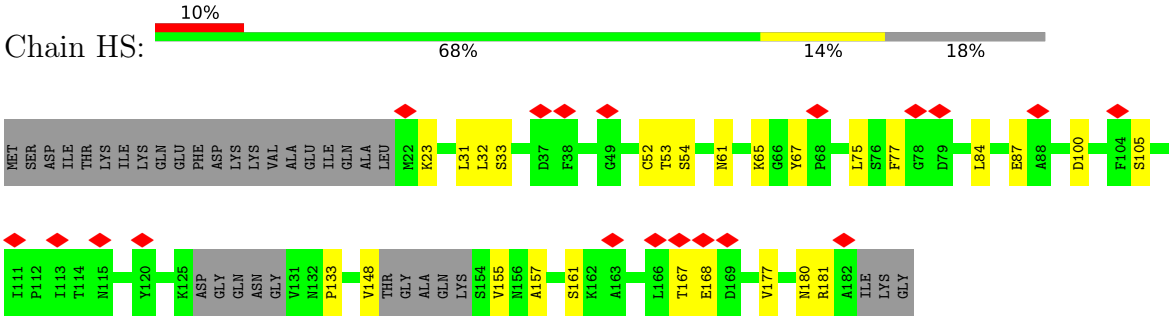




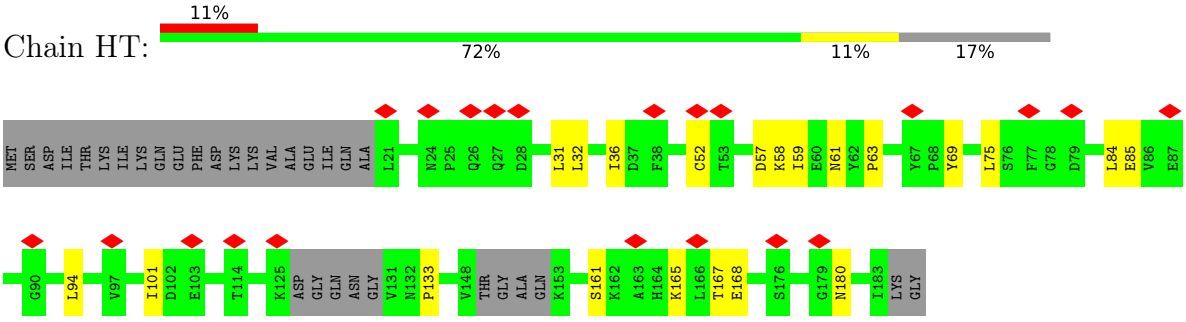
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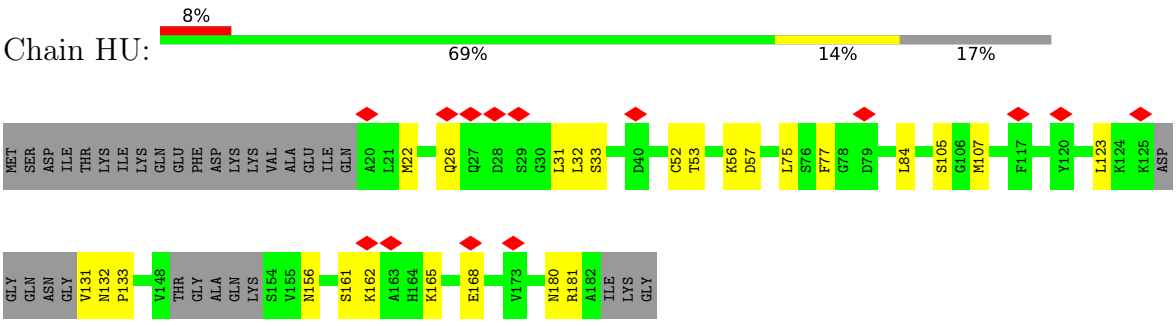
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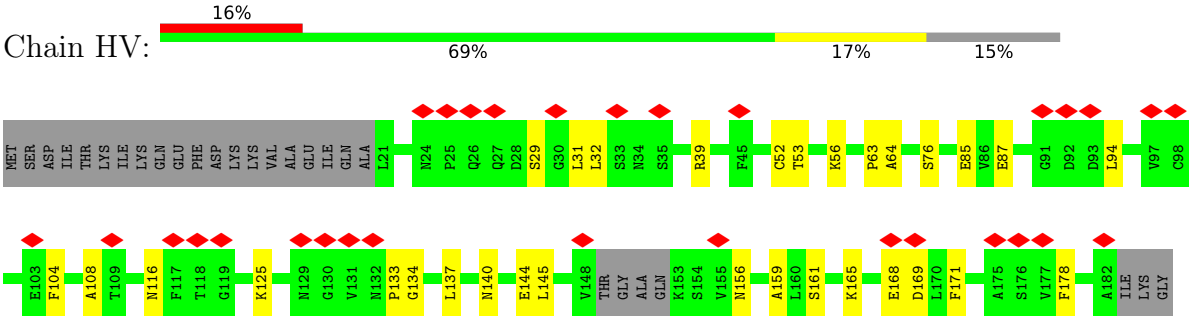


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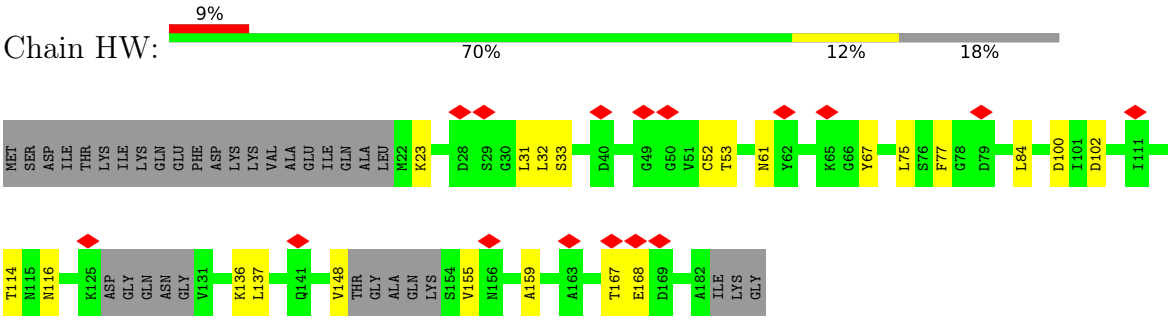
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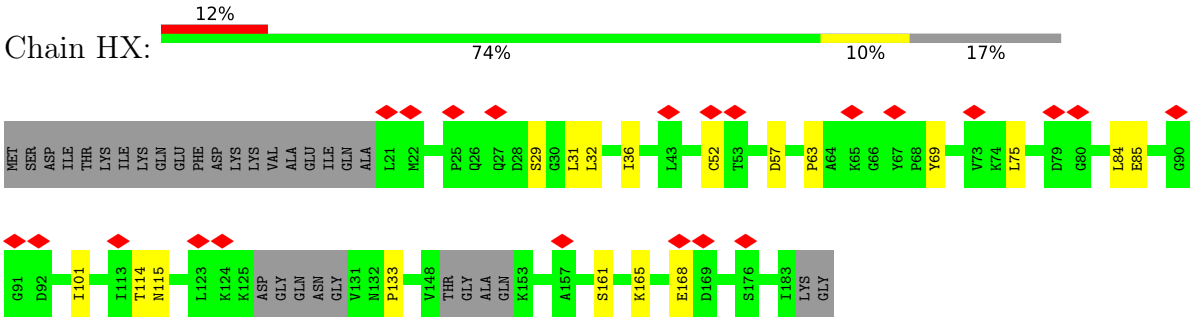
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Chain HW:



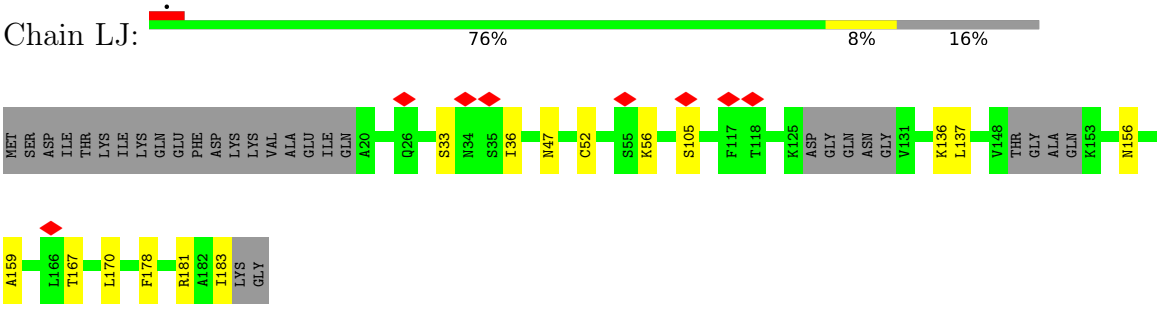
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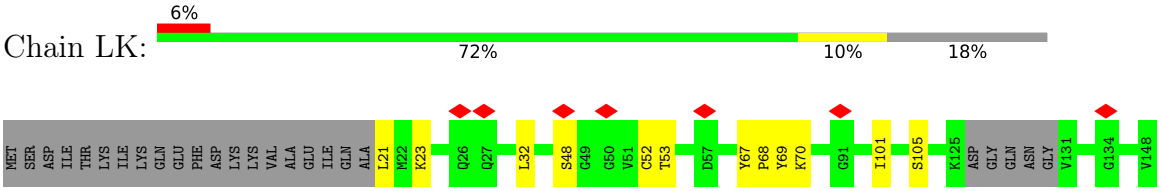
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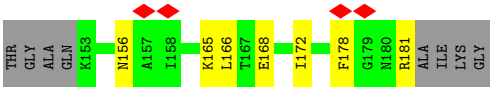
Chain LJ:



• Molecule 2: Decoration protein P03

Chain LK:

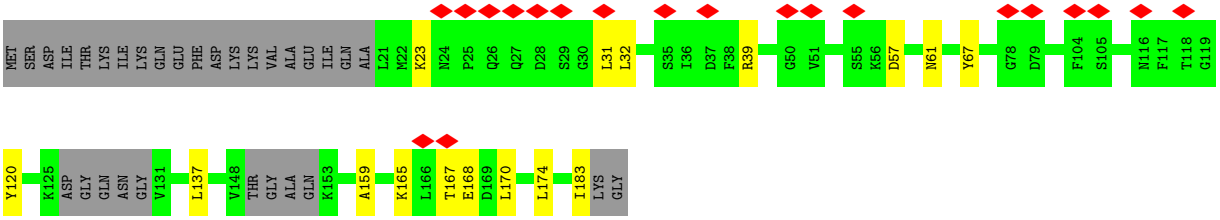




• Molecule 2: Decoration protein P03

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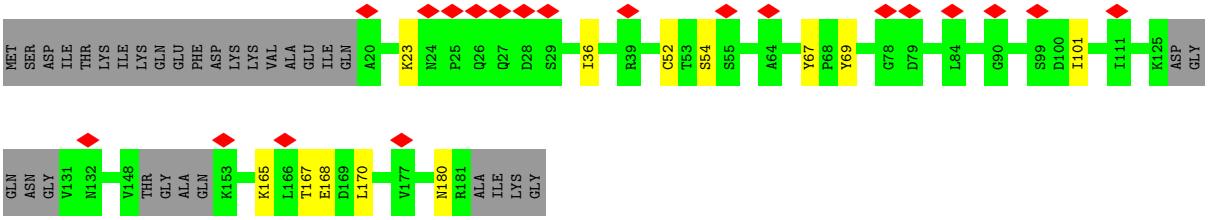




• Molecule 2: Decoration protein P03

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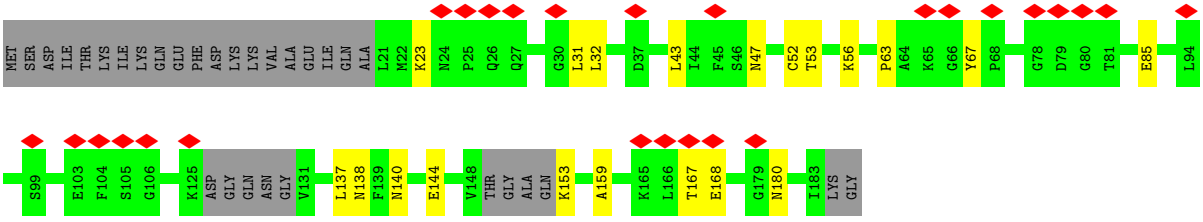




• Molecule 2: Decoration protein P03

Chain LN:

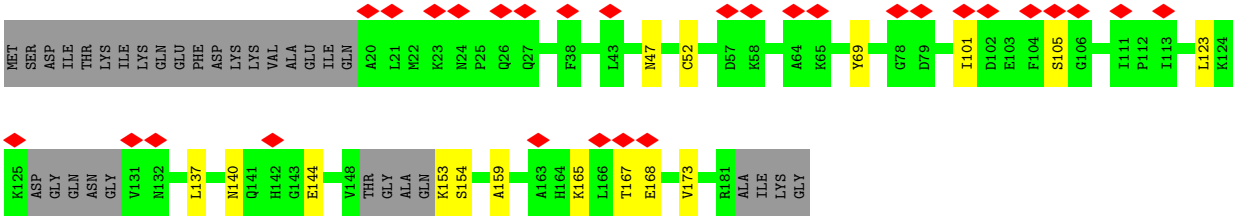




• Molecule 2: Decoration protein P03

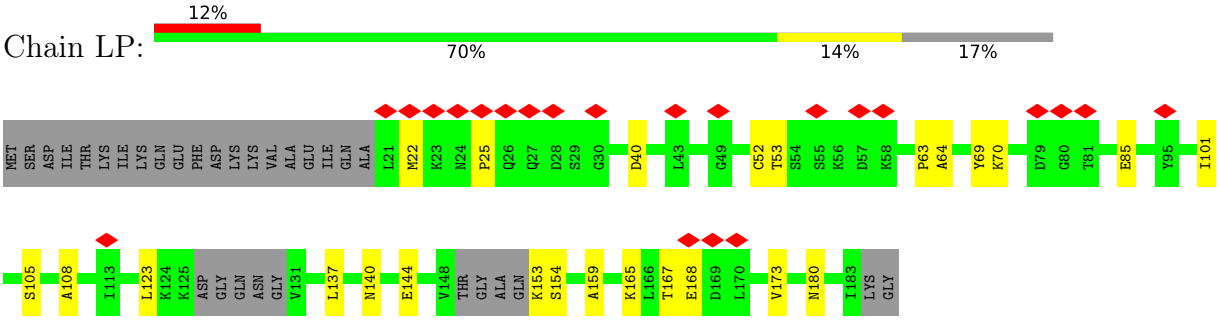
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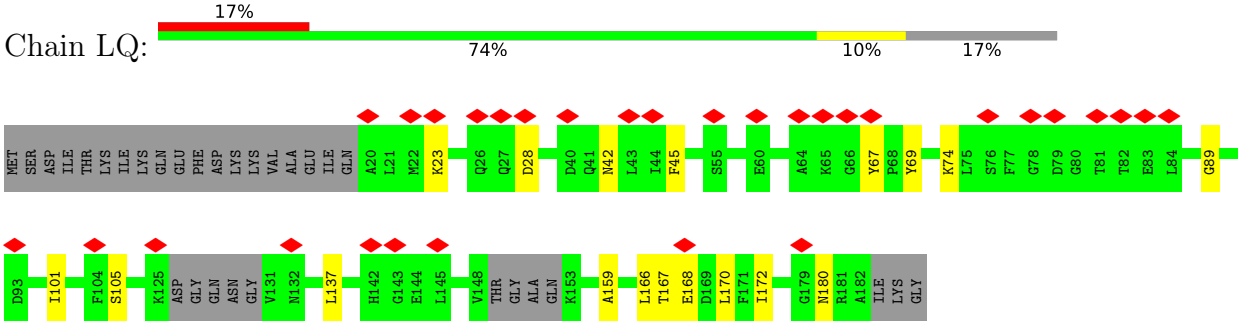
• Molecule 2: Decoration protein P03

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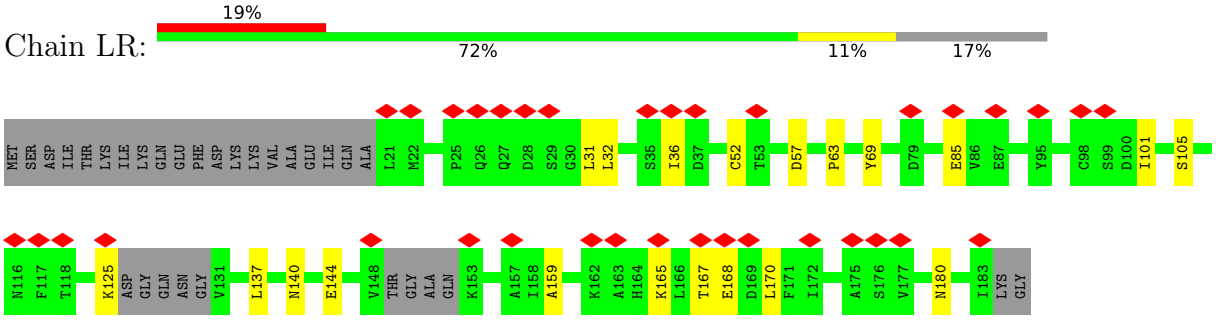
• Molecule 2: Decoration protein P03

Chain LQ:



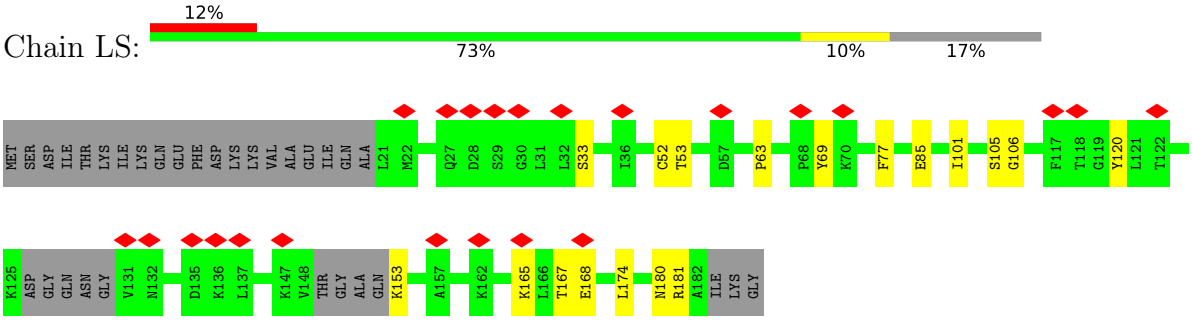
• Molecule 2: Decoration protein P03

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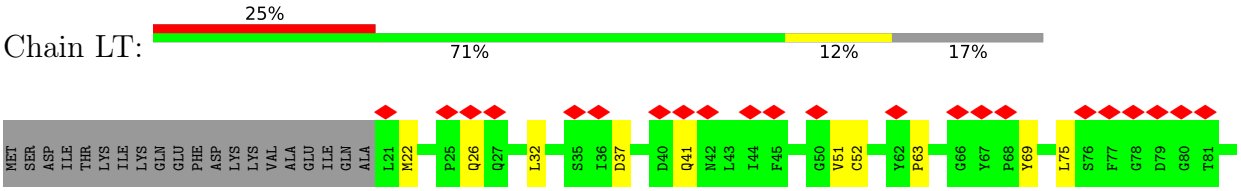
• Molecule 2: Decoration protein P03

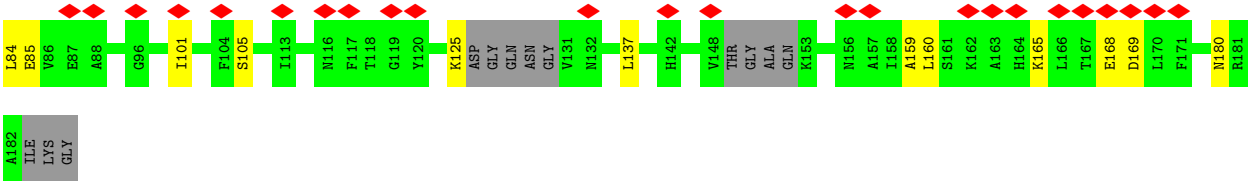
Chain LS:



• Molecule 2: Decoration protein P03

Chain LT:

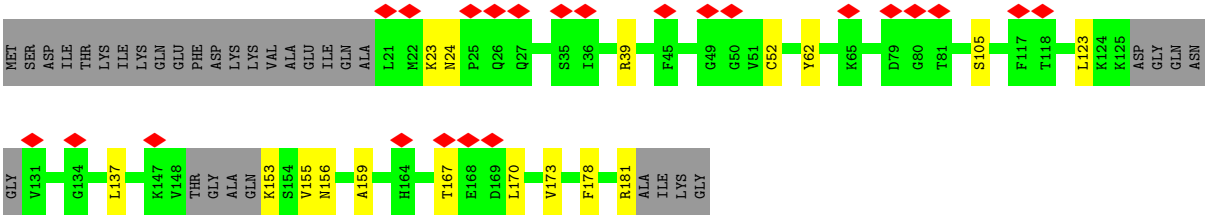




• Molecule 2: Decoration protein P03

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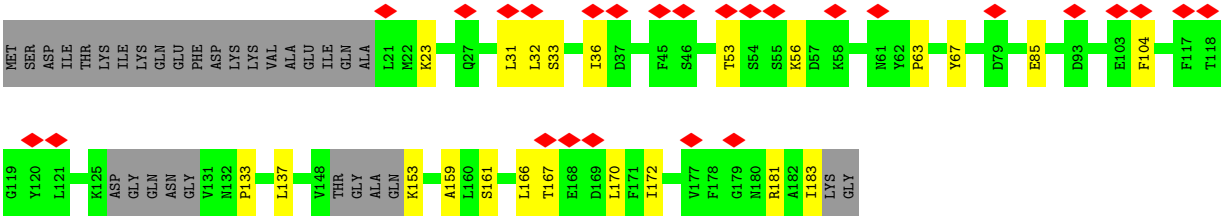




• Molecule 2: Decoration protein P03

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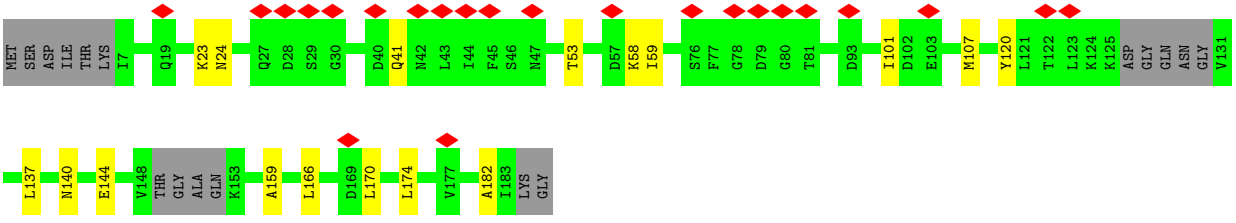




• Molecule 2: Decoration protein P03

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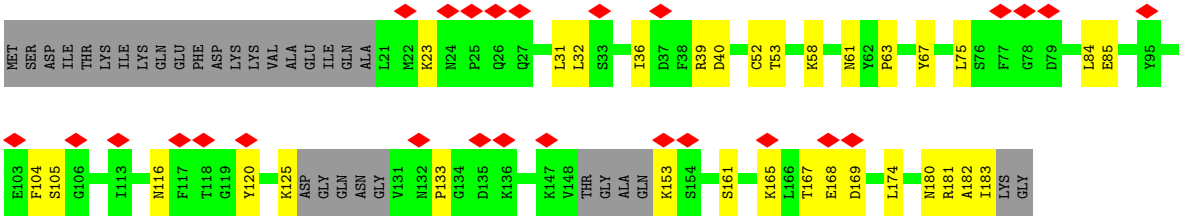




• Molecule 2: Decoration protein P03

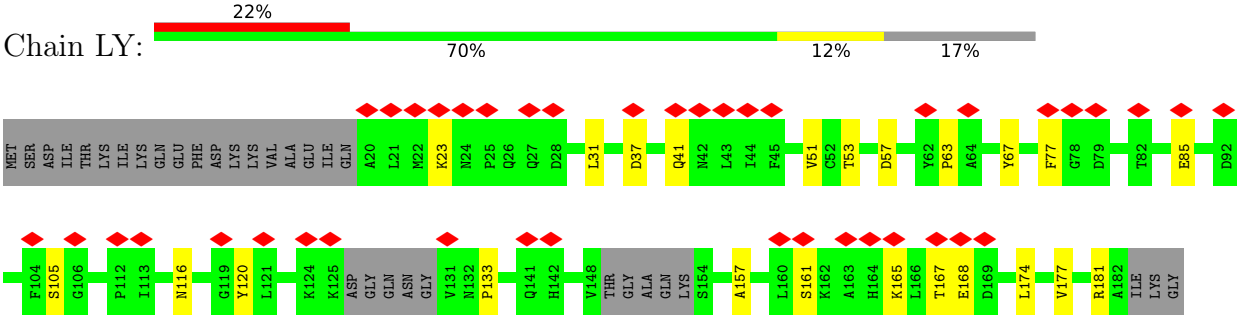
Chain LX:





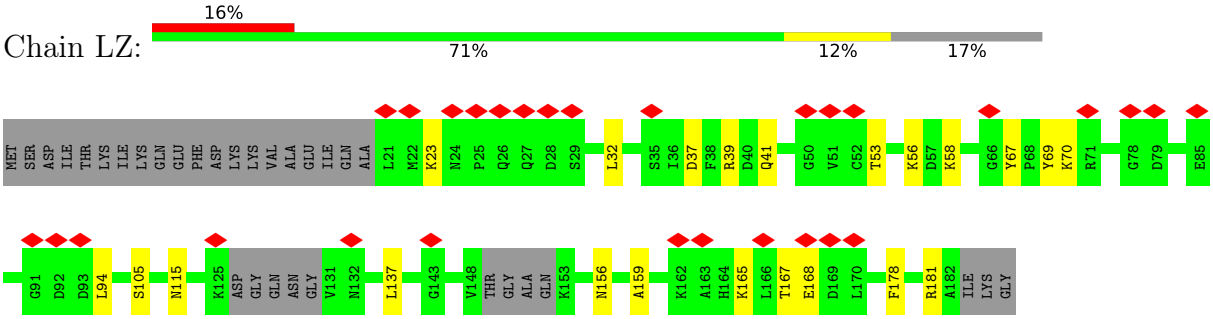
• Molecule 2: Decoration protein P03

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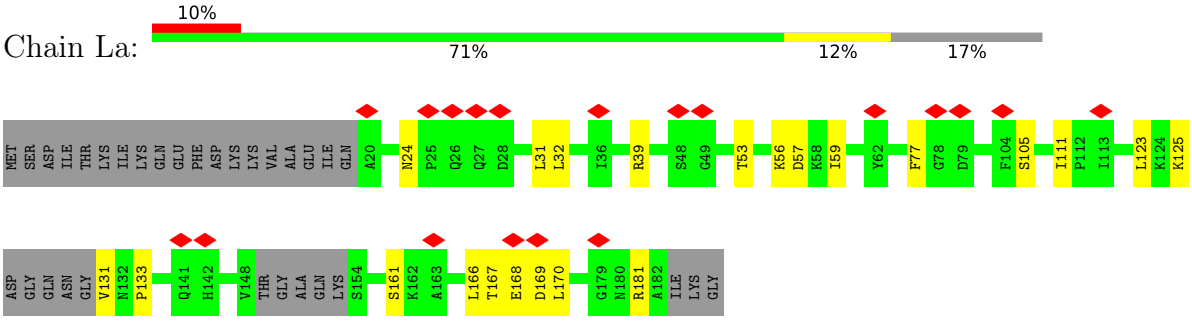
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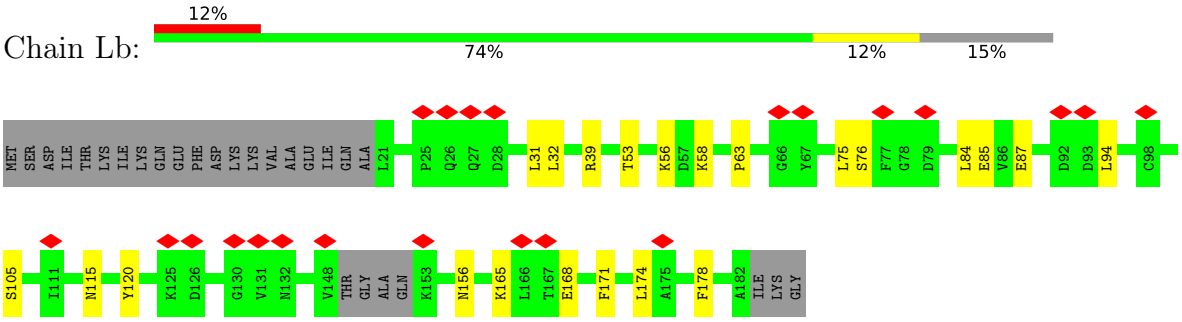
• Molecule 2: Decoration protein P03

Chain La:



• Molecule 2: Decoration protein P03

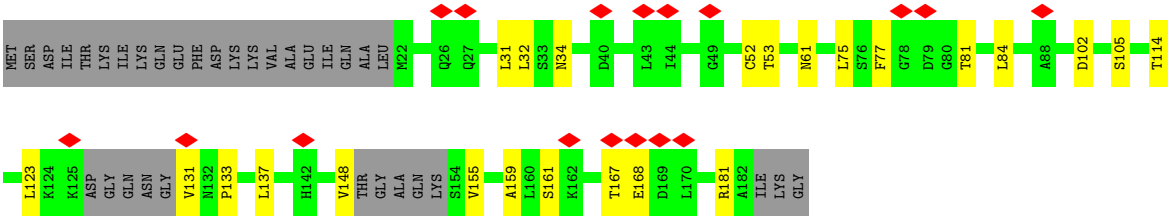
Chain Lb:



• Molecule 2: Decoration protein P03

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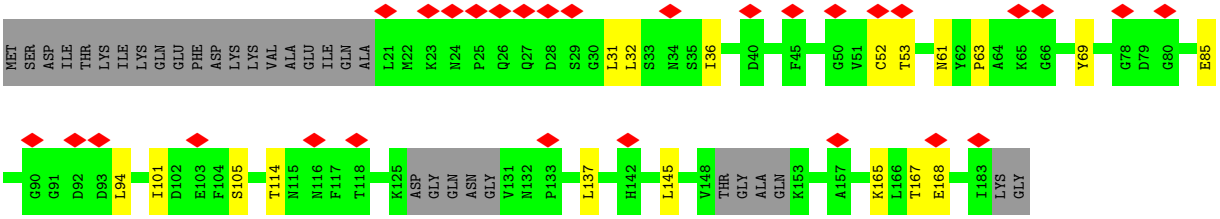




• Molecule 2: Decoration protein P03

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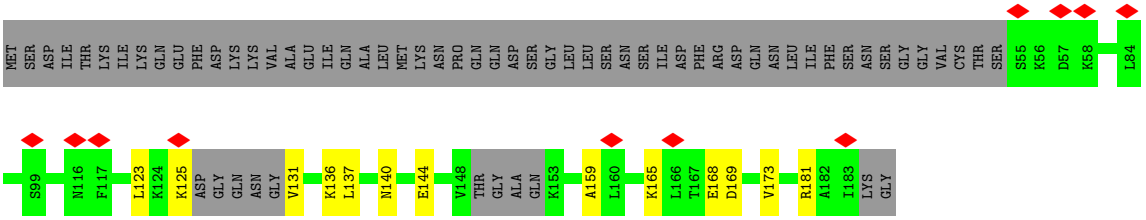




• Molecule 2: Decoration protein P03

Chain Le:

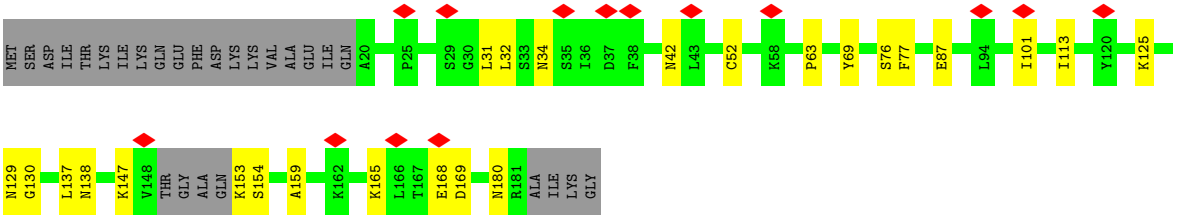




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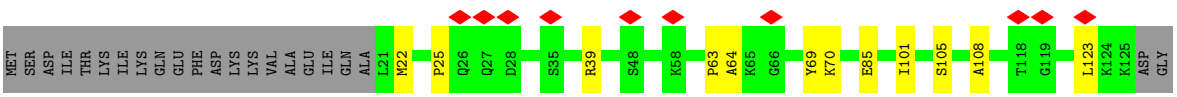


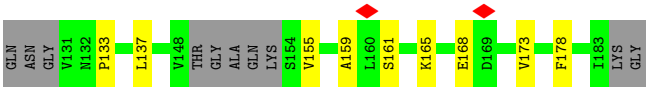


• Molecule 2: Decoration protein P03

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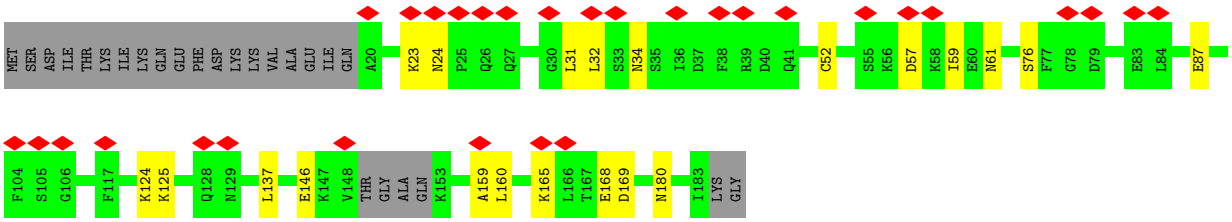




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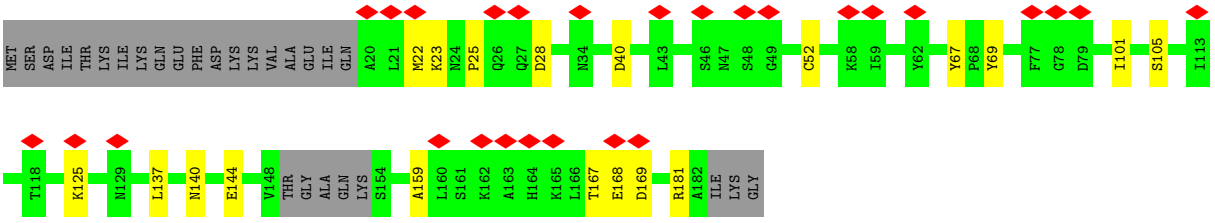




• Molecule 2: Decoration protein P03

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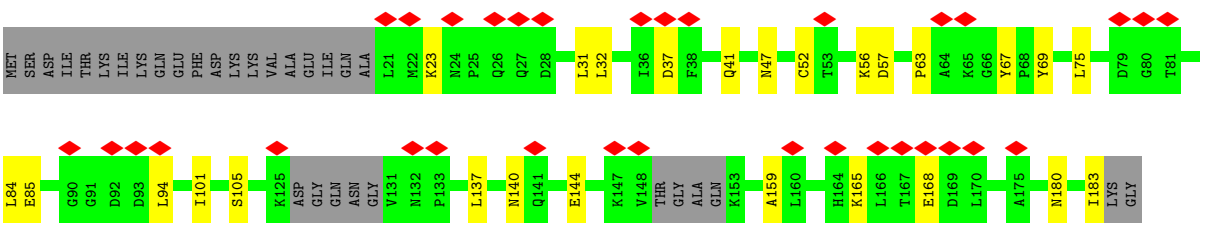




• Molecule 2: Decoration protein P03

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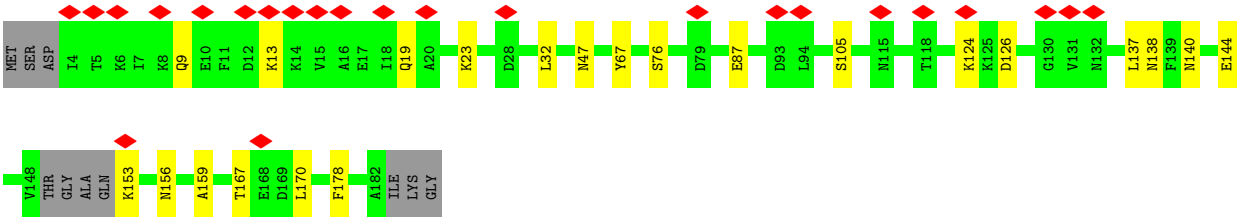




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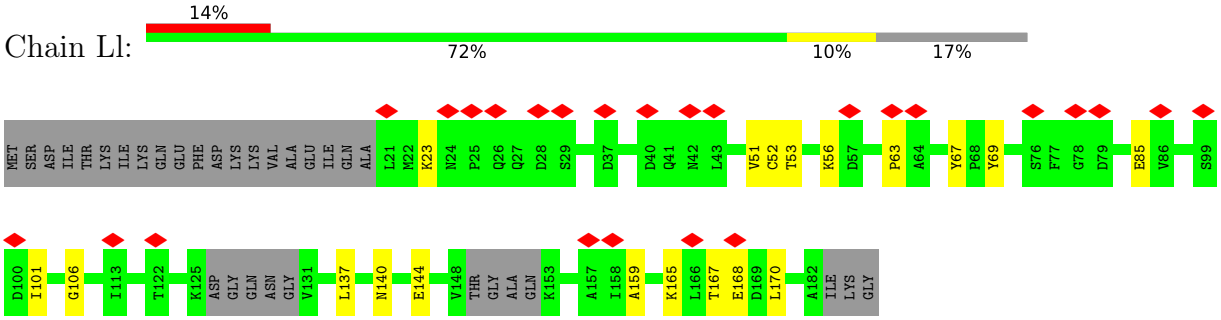
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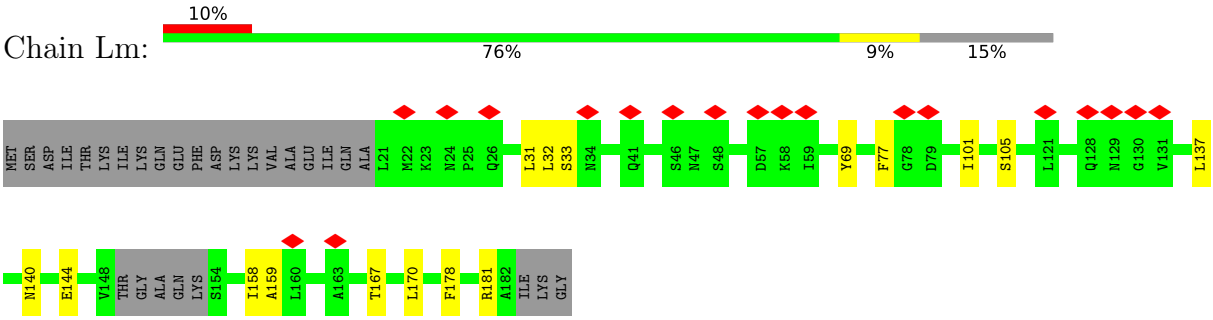
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Chain Ll:



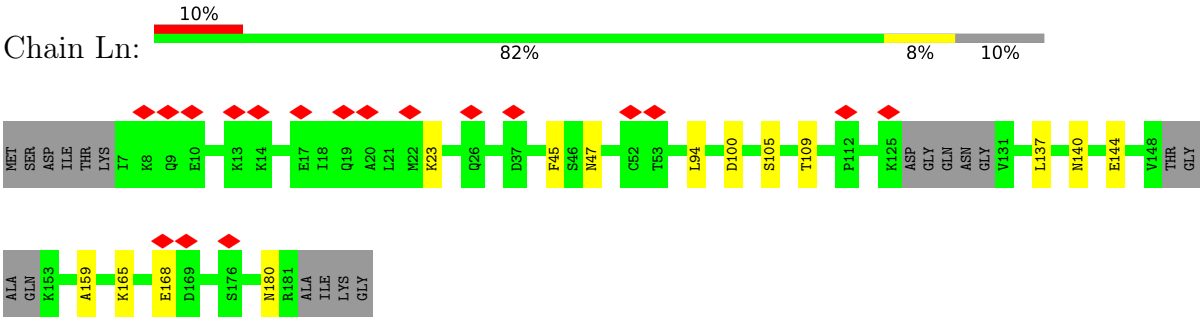
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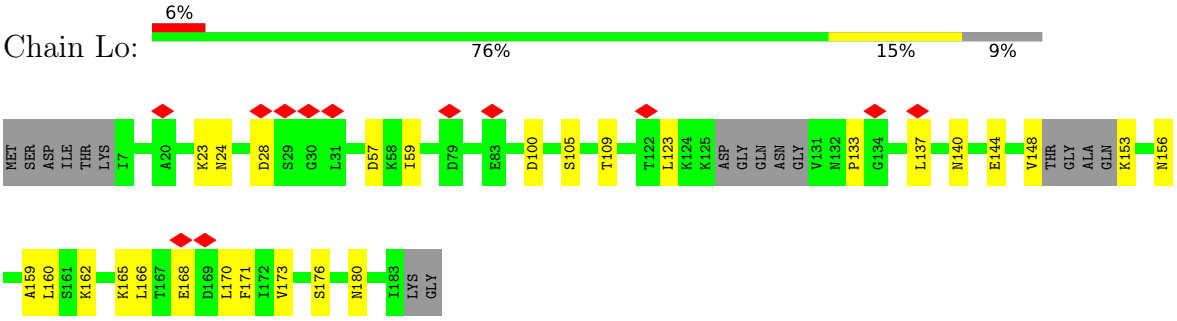
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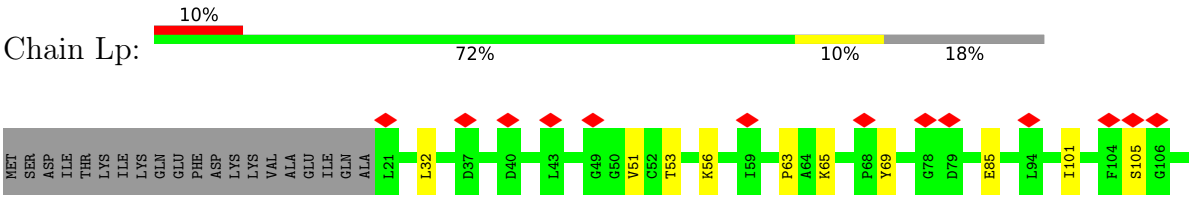
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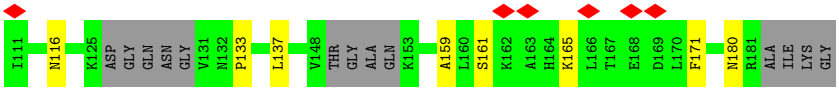
Chain Lo:



• Molecule 2: Decoration protein P03

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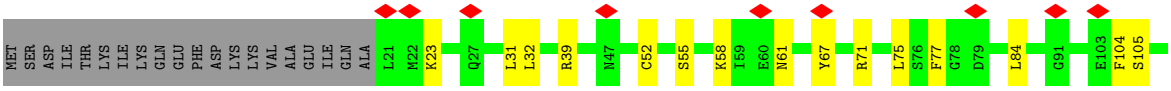


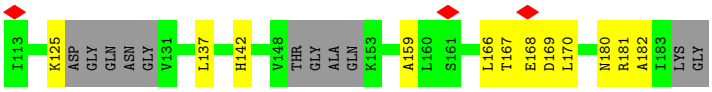


• Molecule 2: Decoration protein P03

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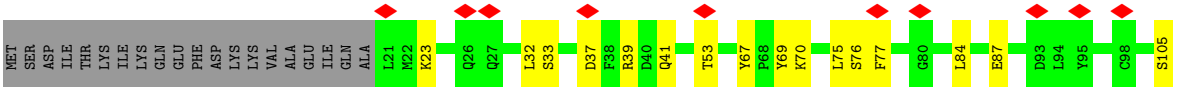


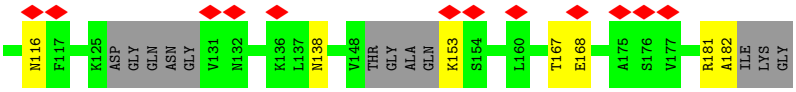


• Molecule 2: Decoration protein P03

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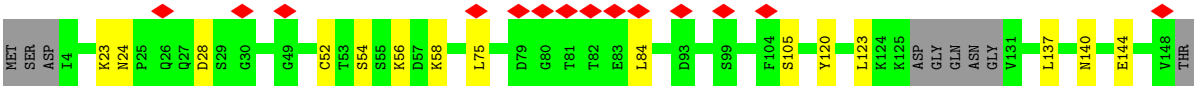


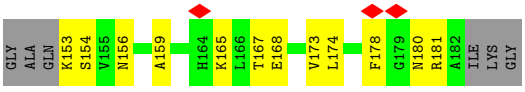


• Molecule 2: Decoration protein P03

Chain Ls:



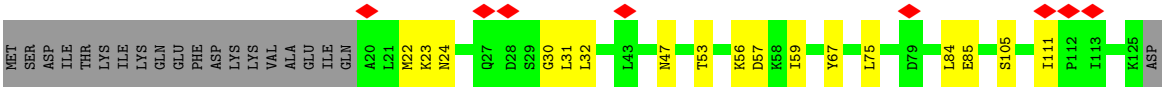


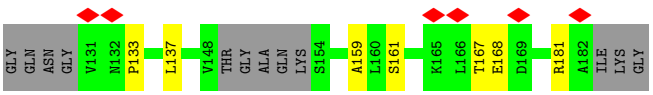


• Molecule 2: Decoration protein P03

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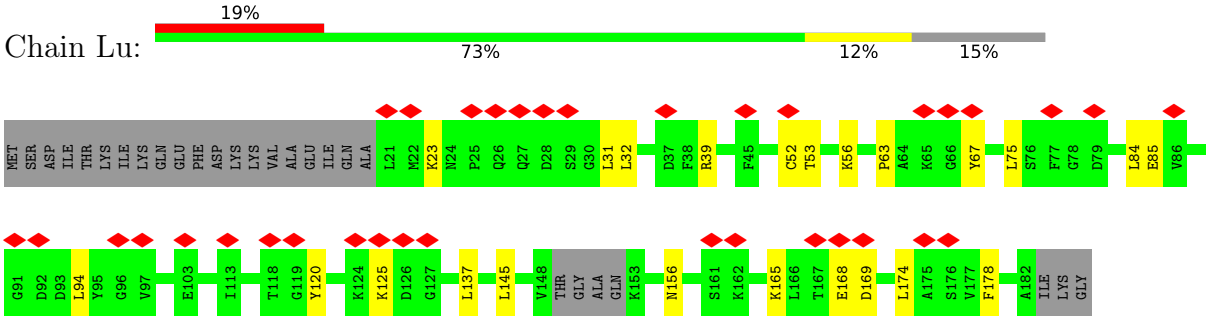






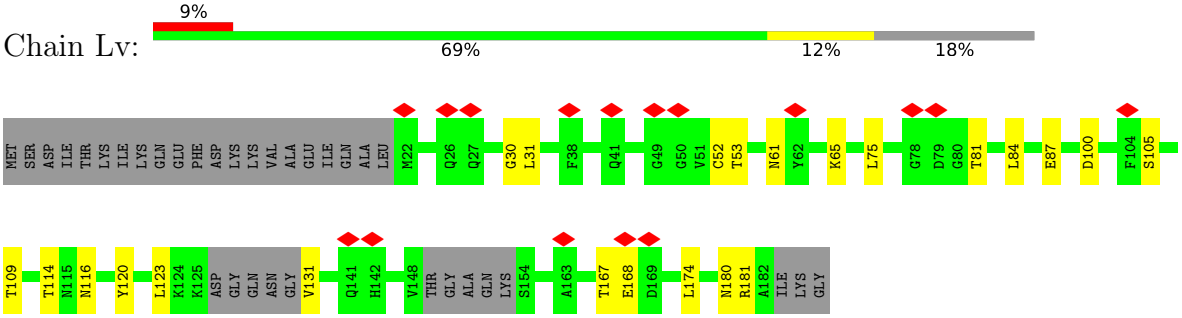
• Molecule 2: Decoration protein P03

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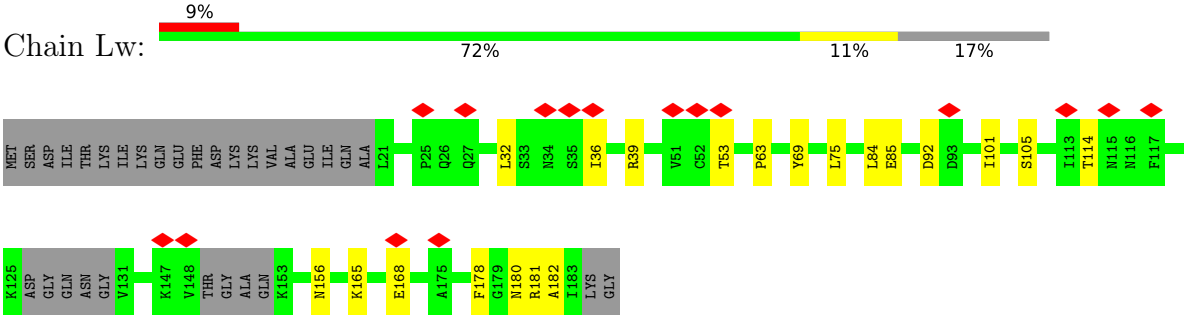
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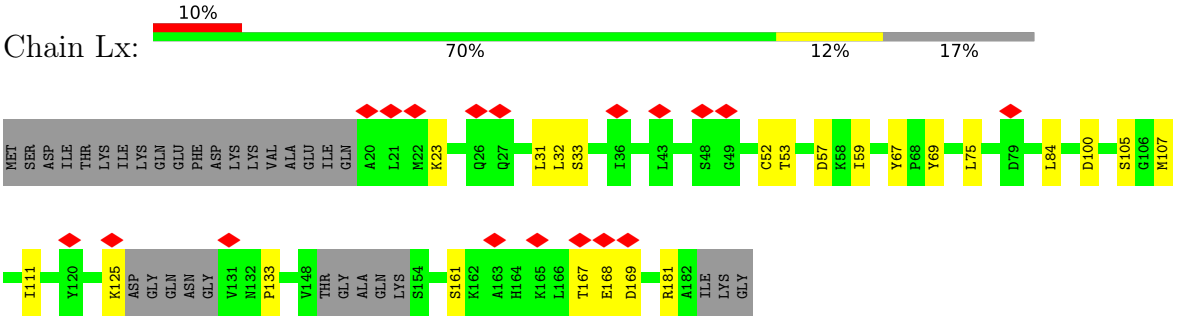
• Molecule 2: Decoration protein P03

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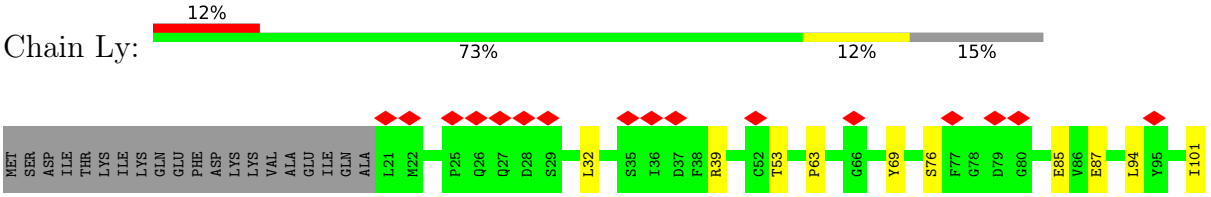
• Molecule 2: Decoration protein P03

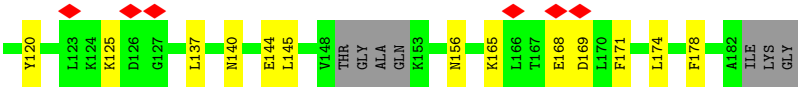
Chain Lx:



• Molecule 2: Decoration protein P03

Chain Ly:

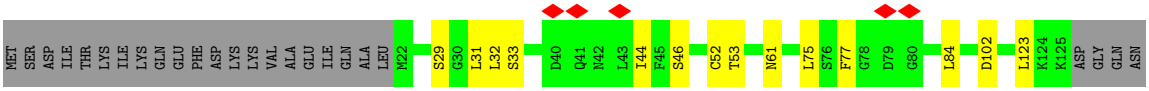


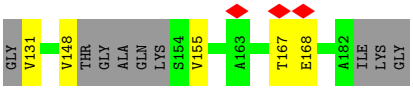


• Molecule 2: Decoration protein P03

Chain Lz:



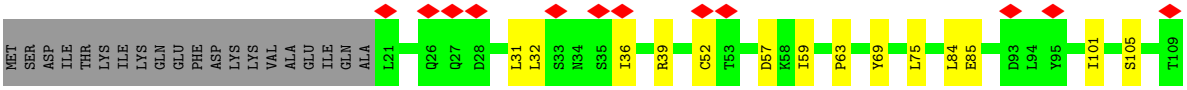


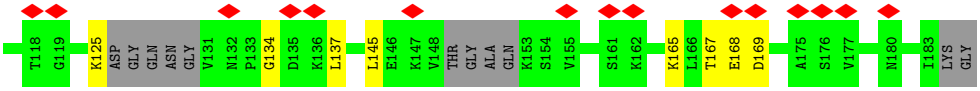


• Molecule 2: Decoration protein P03

Chain MA:



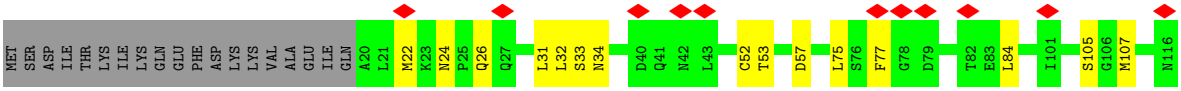


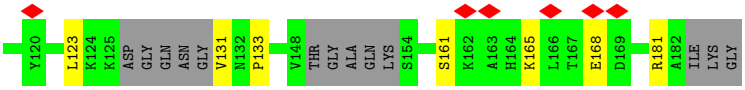


• Molecule 2: Decoration protein P03

Chain MB:



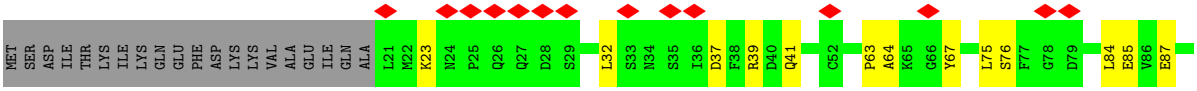


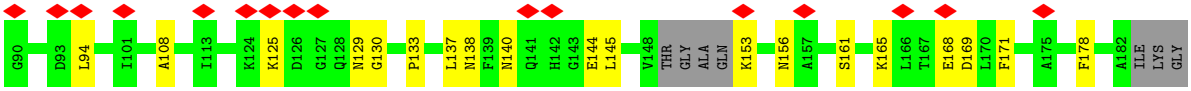


• Molecule 2: Decoration protein P03

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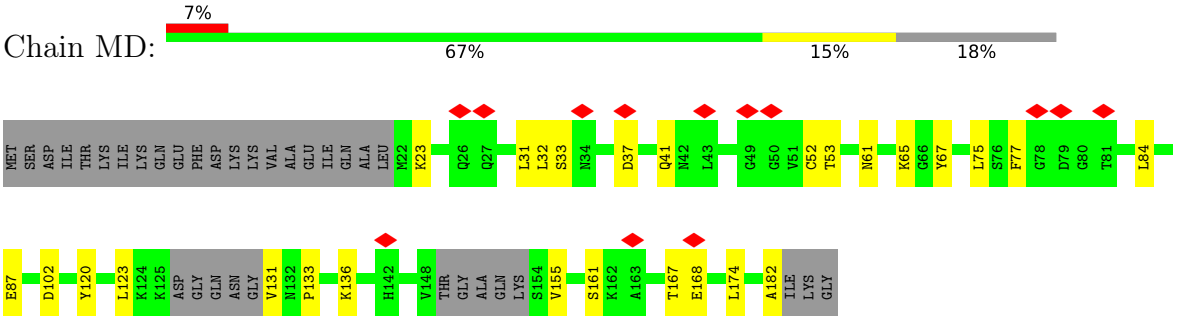






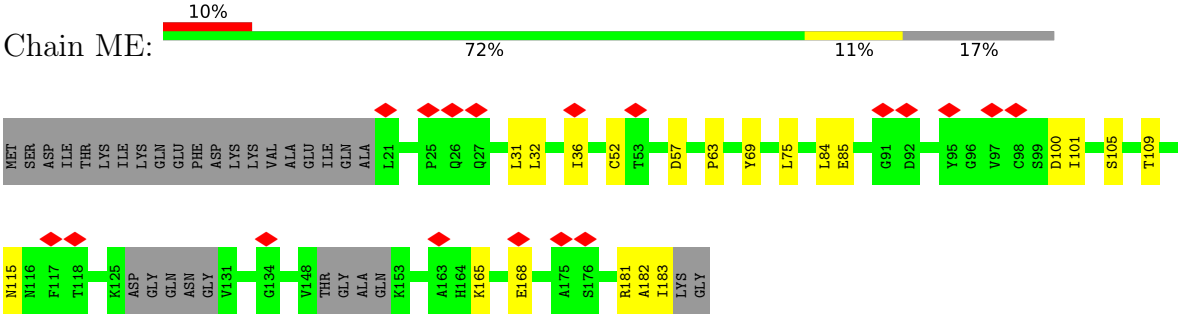
• Molecule 2: Decoration protein P03

Chain MD:



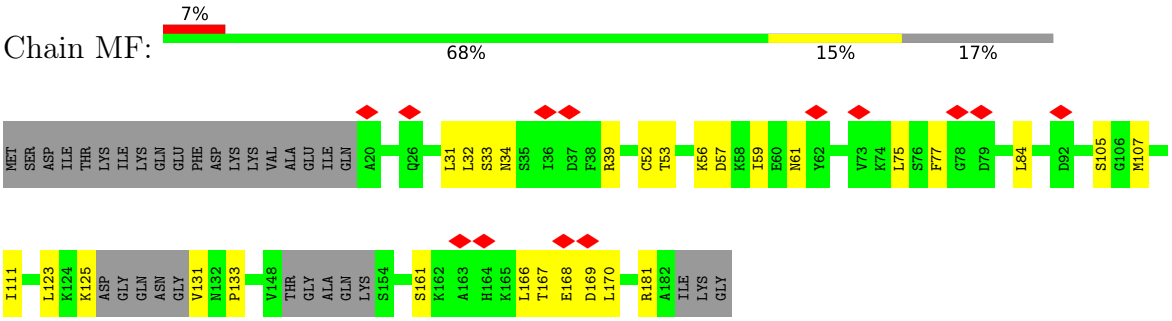
• Molecule 2: Decoration protein P03

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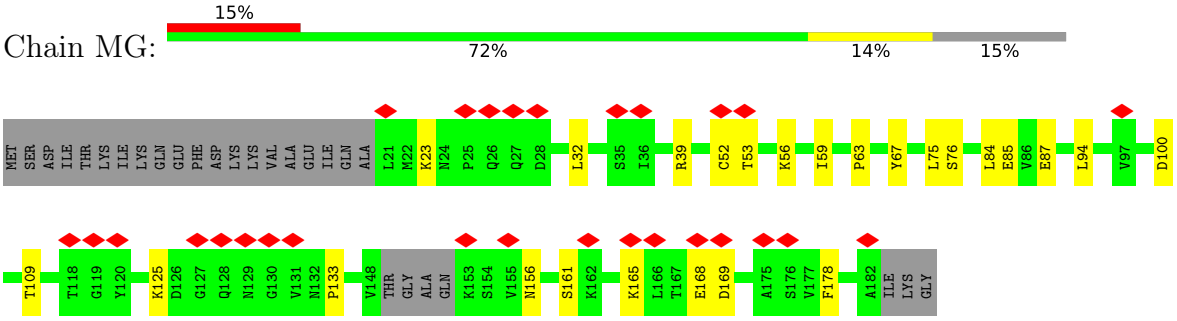
• Molecule 2: Decoration protein P03

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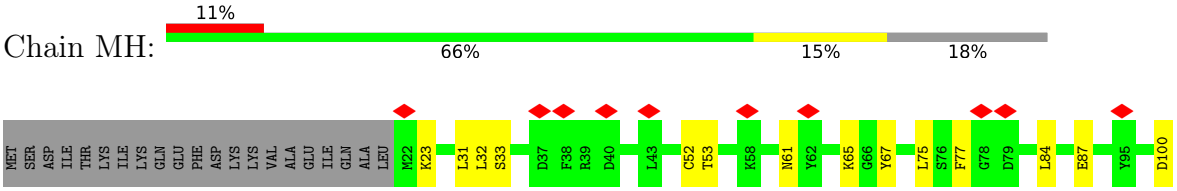
• Molecule 2: Decoration protein P03

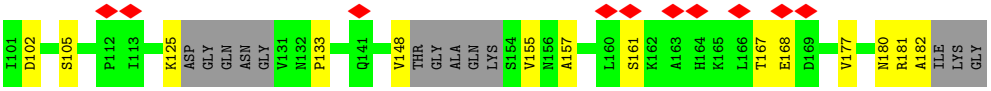
Chain MG:



• Molecule 2: Decoration protein P03

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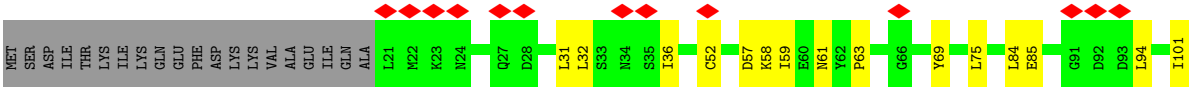


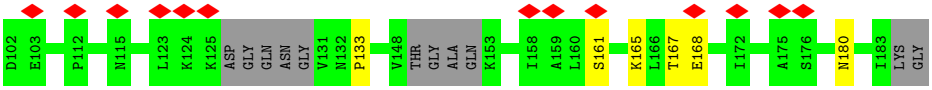


• Molecule 2: Decoration protein P03

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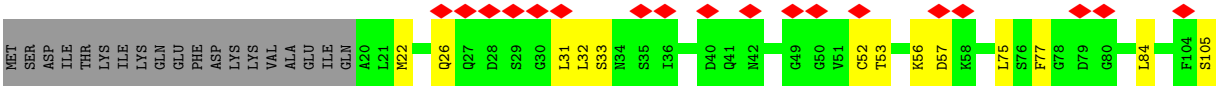


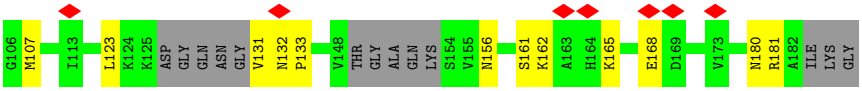


• Molecule 2: Decoration protein P03

Chain MJ:



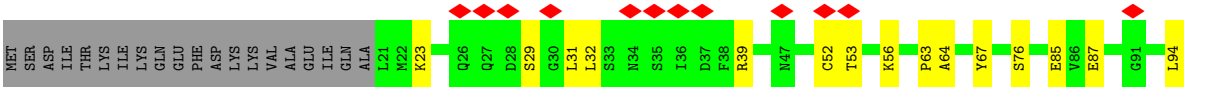


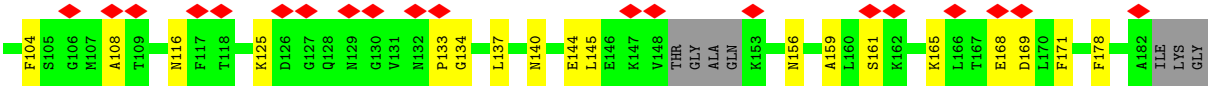


• Molecule 2: Decoration protein P03

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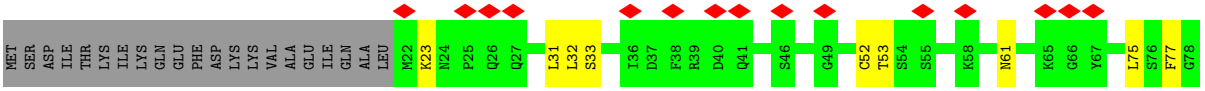


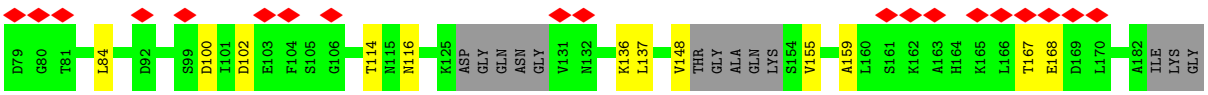


• Molecule 2: Decoration protein P03

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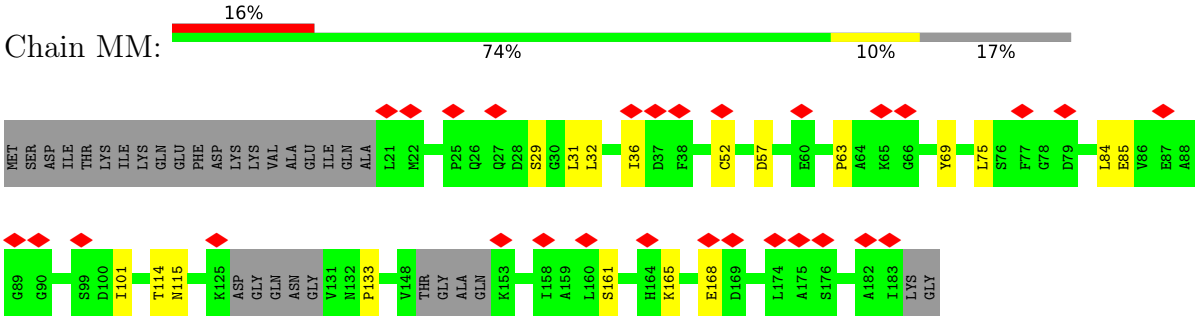






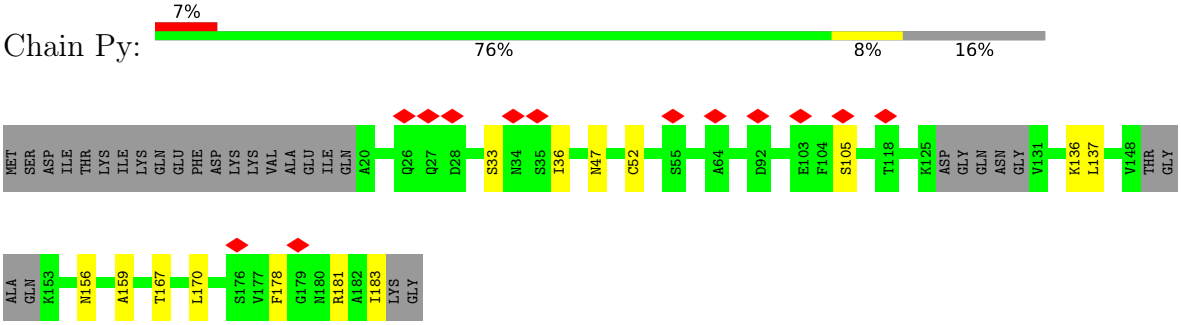
• Molecule 2: Decoration protein P03

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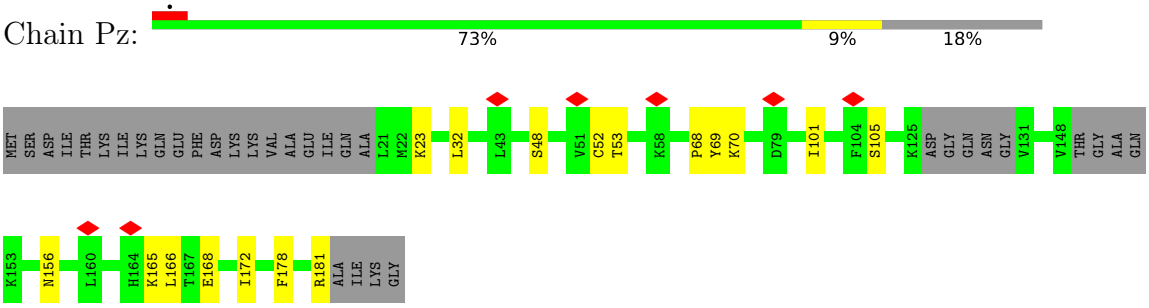
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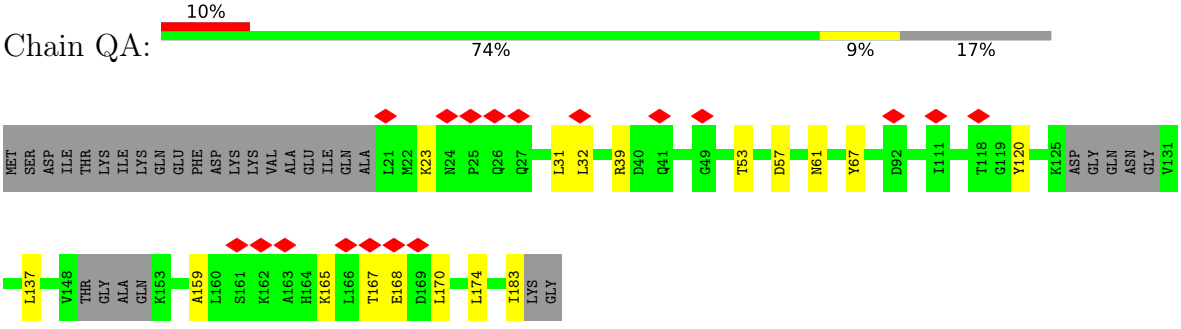
• Molecule 2: Decoration protein P03

Chain Pz:



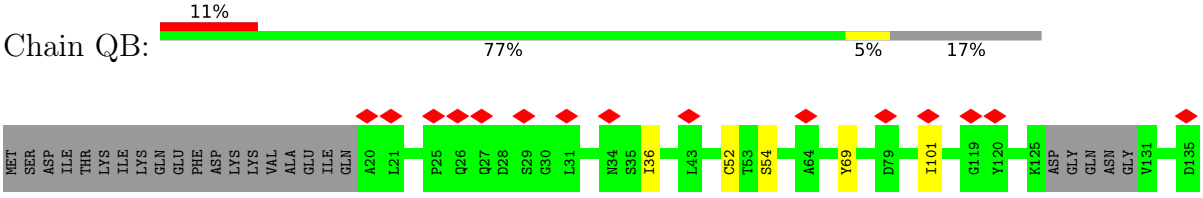
• Molecule 2: Decoration protein P03

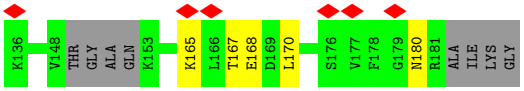
Chain QA:



• Molecule 2: Decoration protein P03

Chain QB:

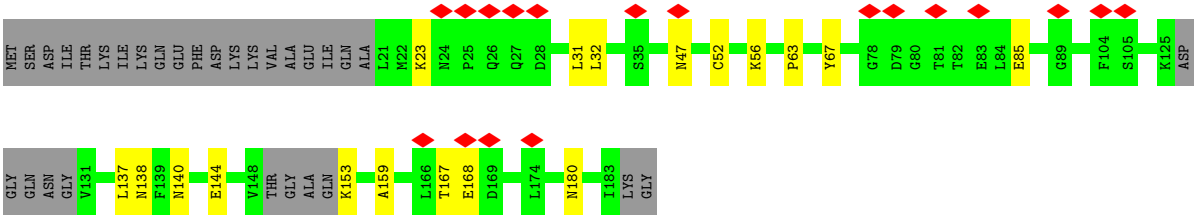




• Molecule 2: Decoration protein P03

Chain QC:

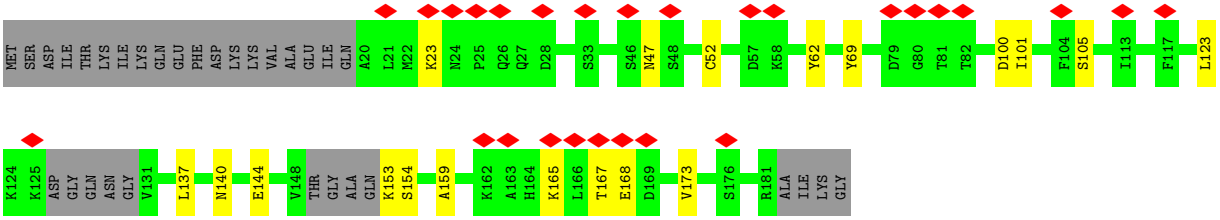




• Molecule 2: Decoration protein P03

Chain QD:

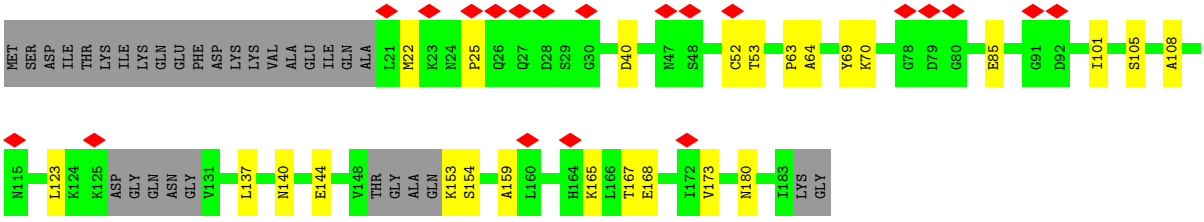




• Molecule 2: Decoration protein P03

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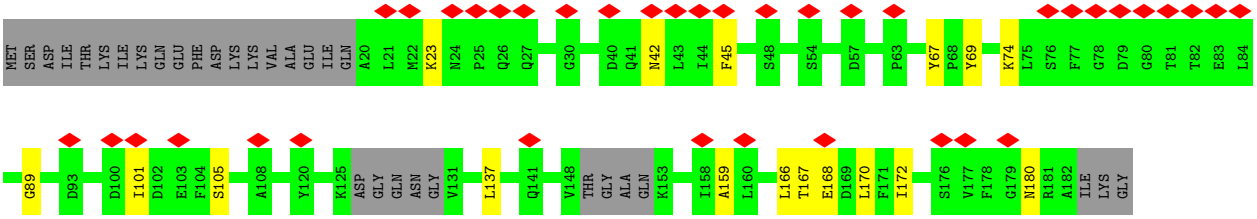




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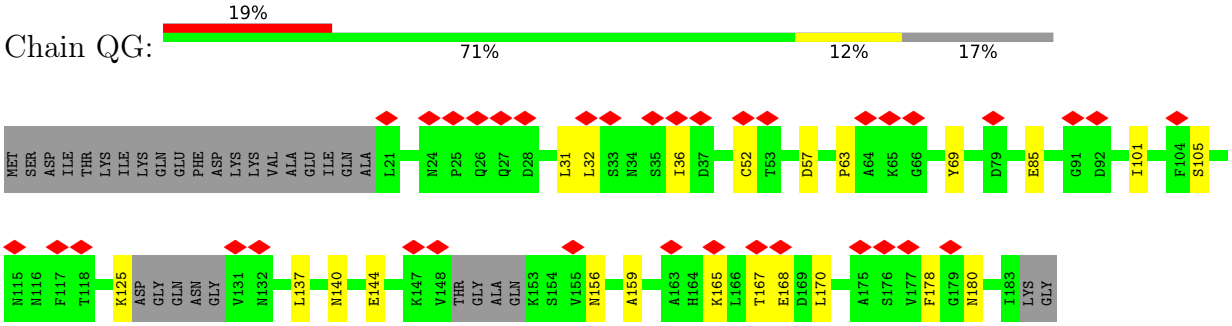
Chain QF:





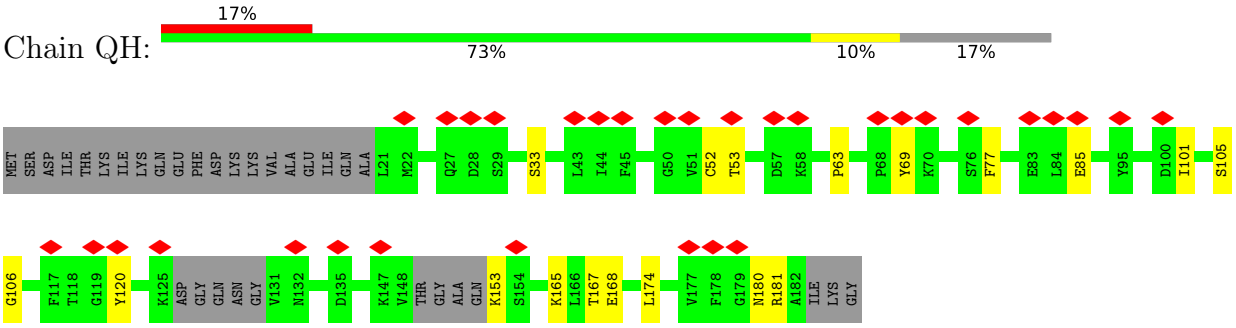
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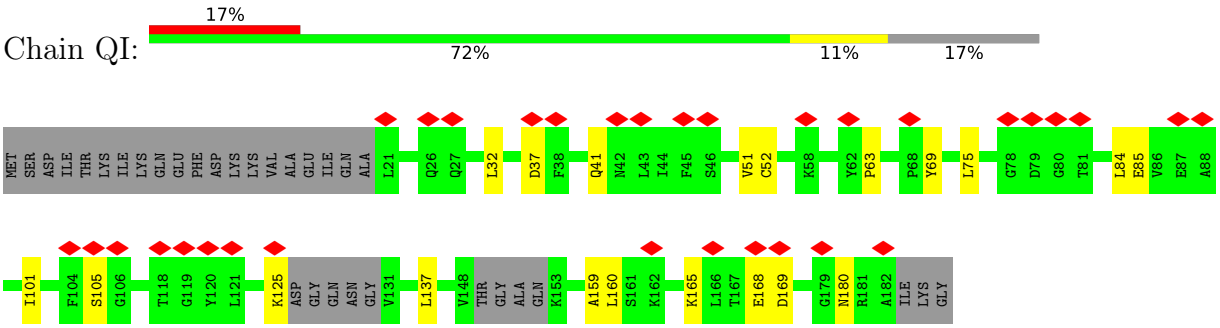
• Molecule 2: Decoration protein P03

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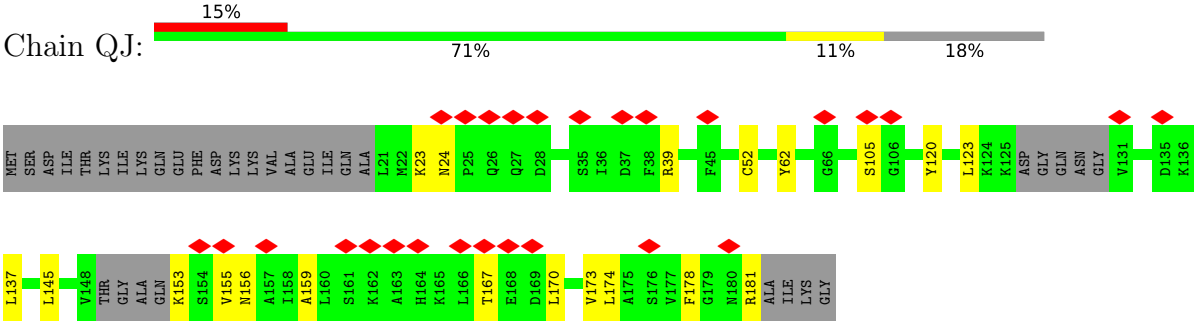
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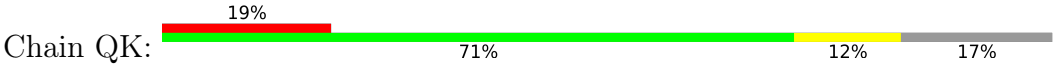
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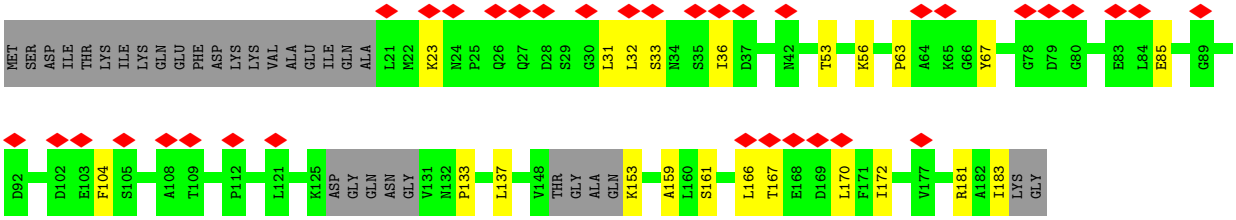
Chain QJ:



• Molecule 2: Decoration protein P03

Chain QK:

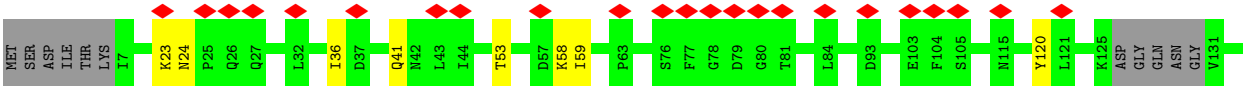


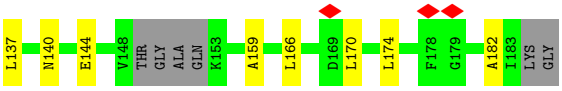


• Molecule 2: Decoration protein P03

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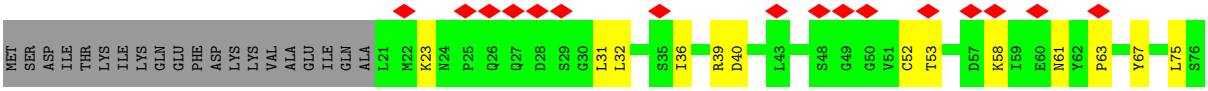




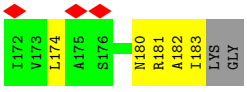
• Molecule 2: Decoration protein P03

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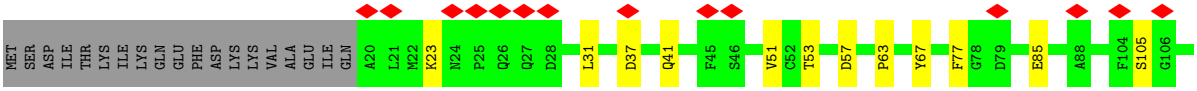


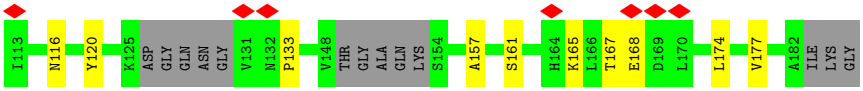


• Molecule 2: Decoration protein P03

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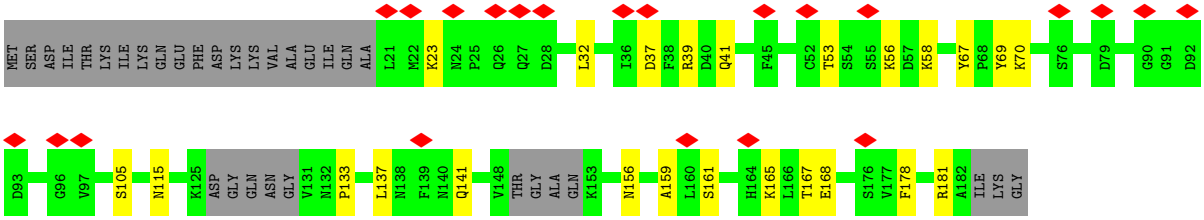




• Molecule 2: Decoration protein P03

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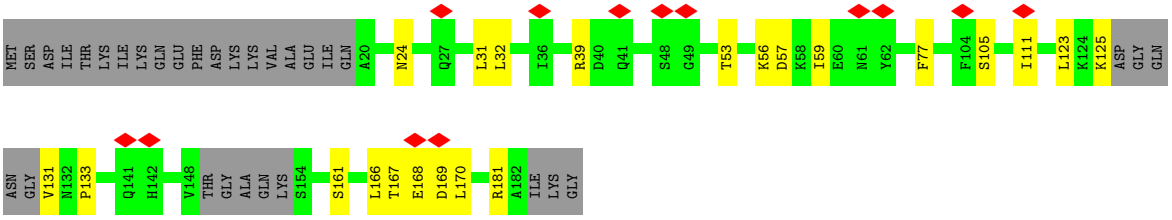




• Molecule 2: Decoration protein P03

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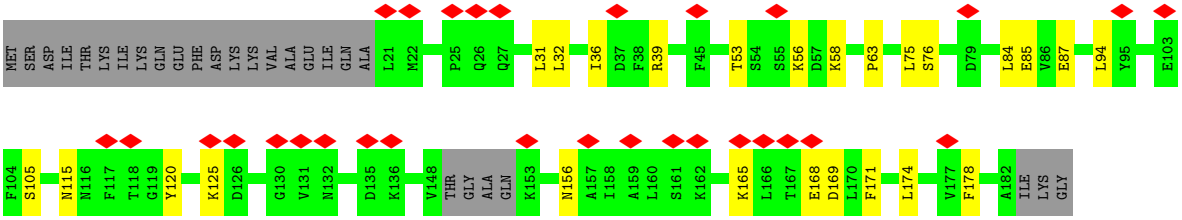




• Molecule 2: Decoration protein P03

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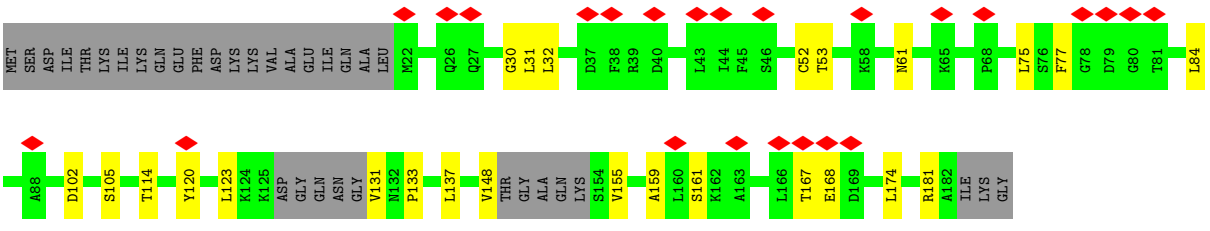




• Molecule 2: Decoration protein P03

Chain QR:

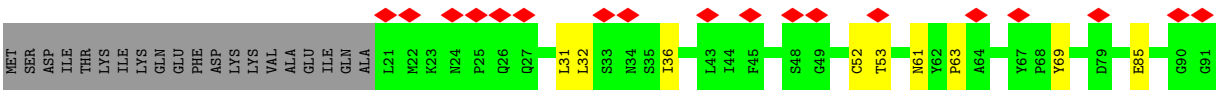




• Molecule 2: Decoration protein P03

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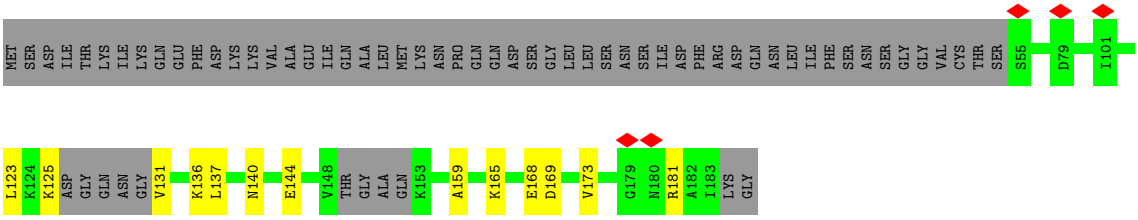




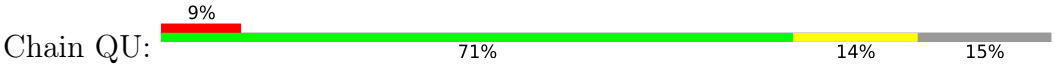


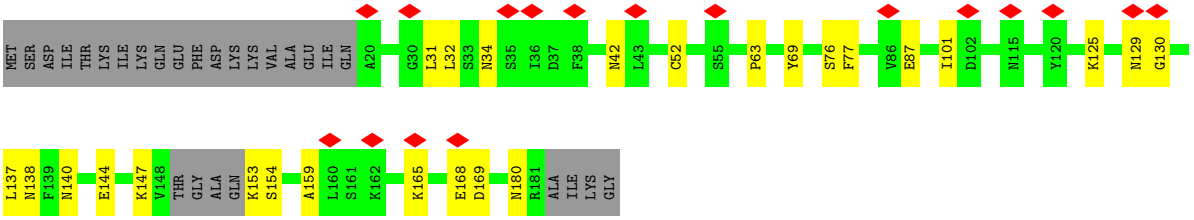
• Molecule 2: Decoration protein P03





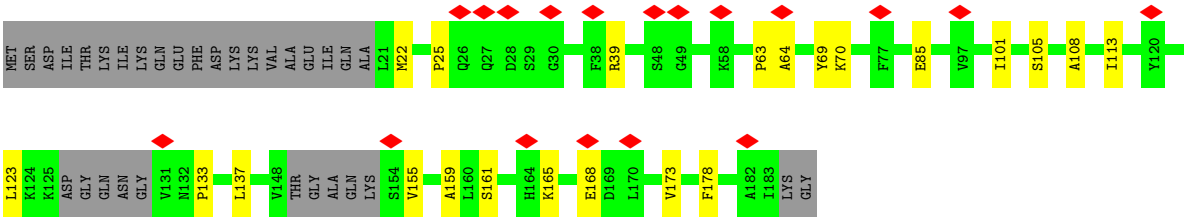
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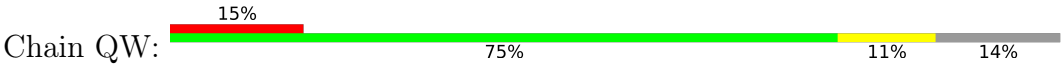


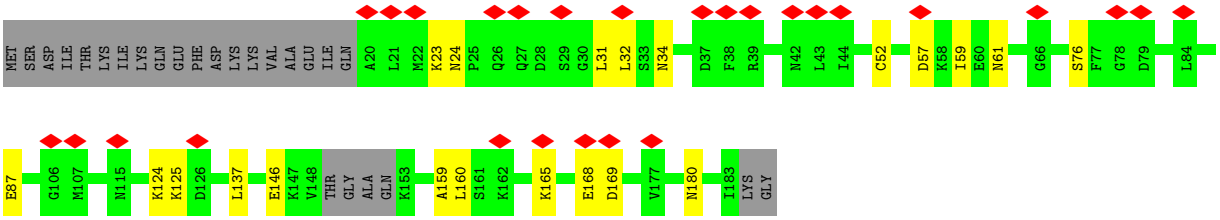
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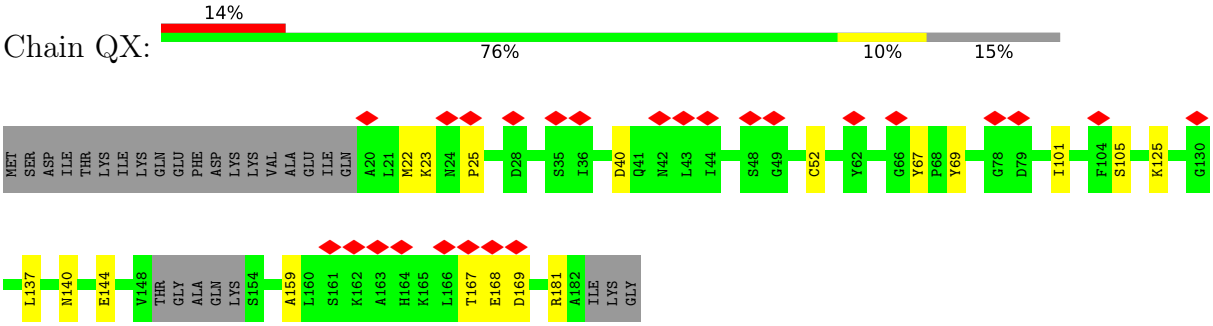
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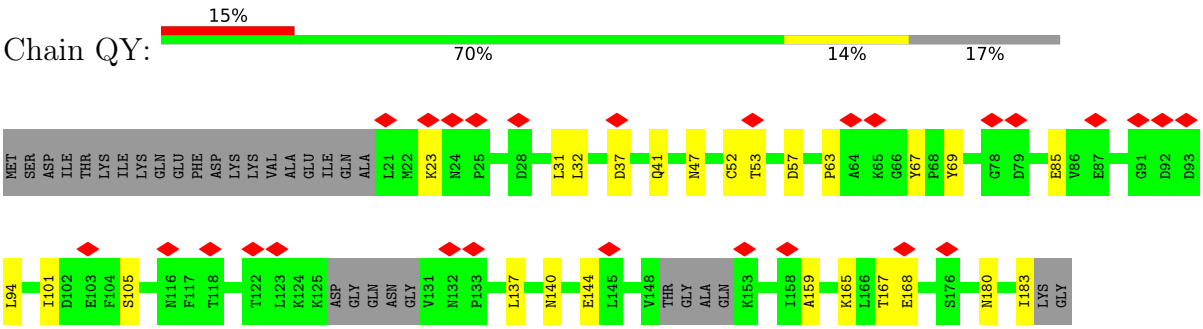
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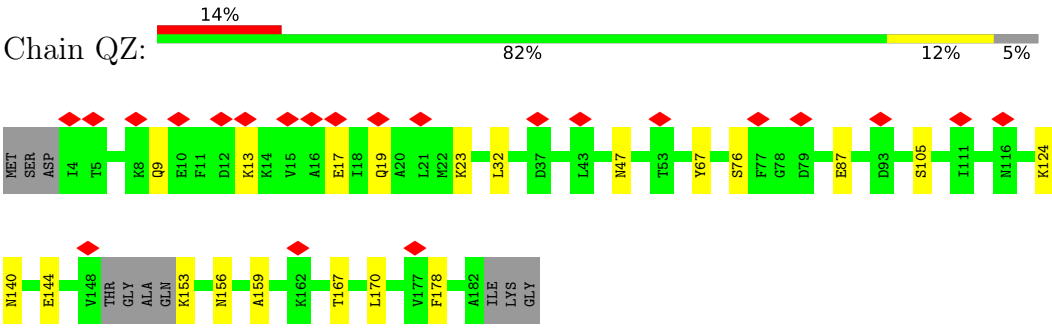
• Molecule 2: Decoration protein P03

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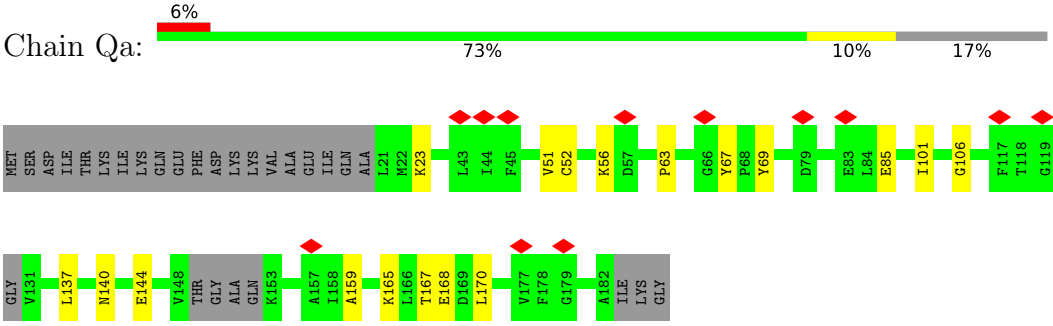
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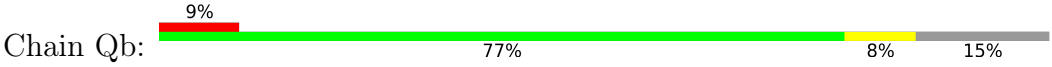
• Molecule 2: Decoration protein P03

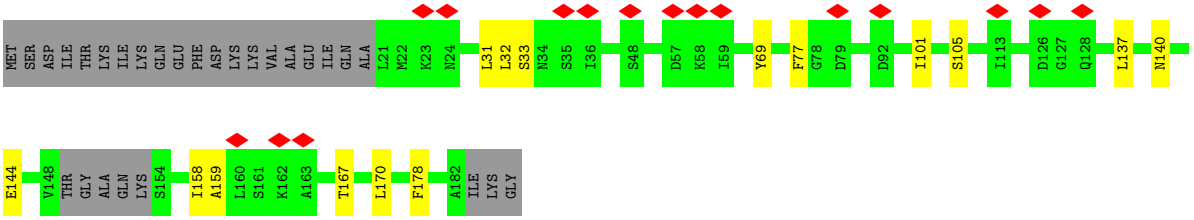
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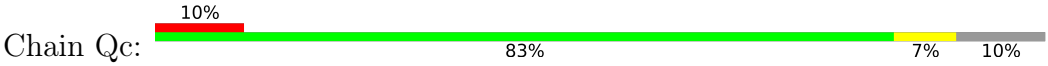
• Molecule 2: Decoration protein P03

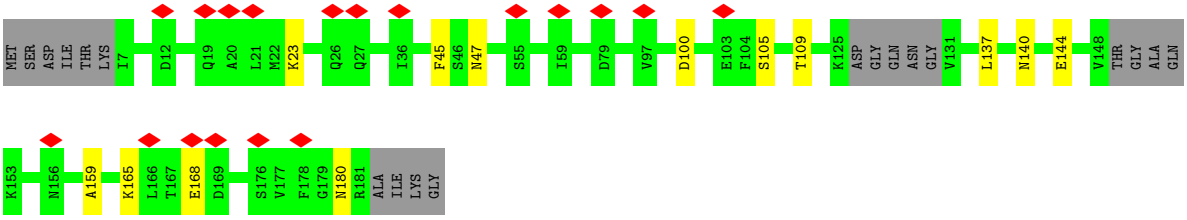
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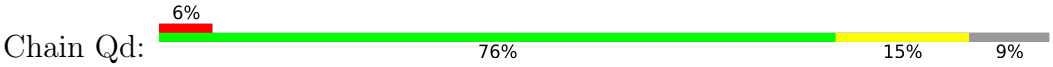


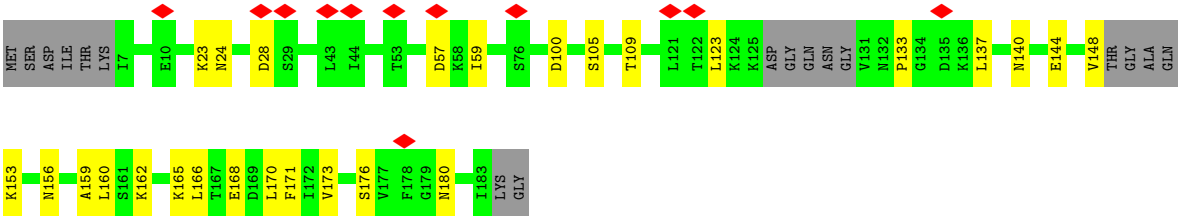
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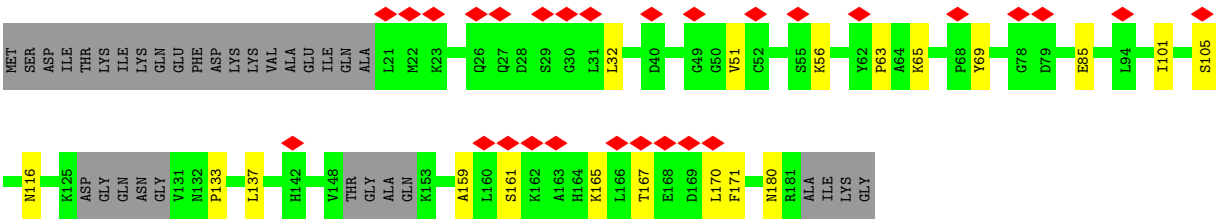
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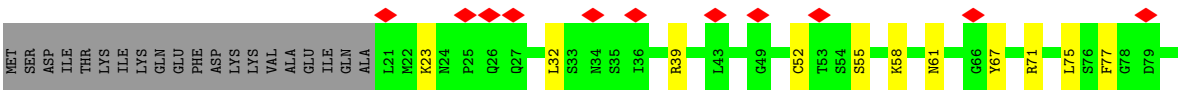
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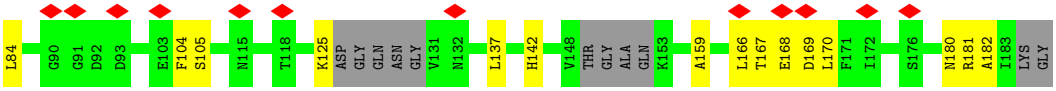




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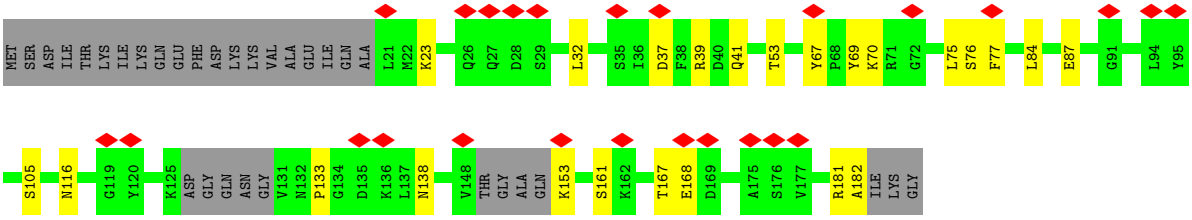




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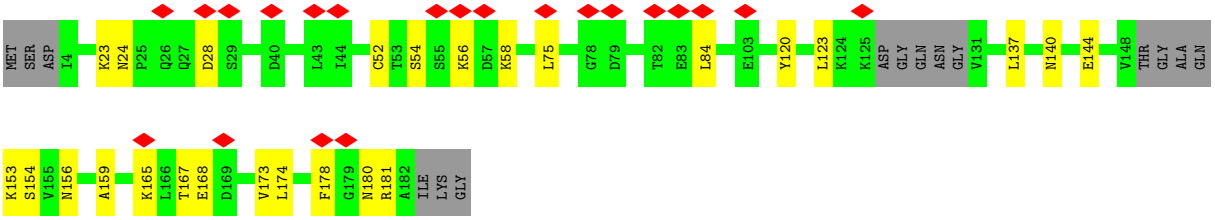




• Molecule 2: Decoration protein P03

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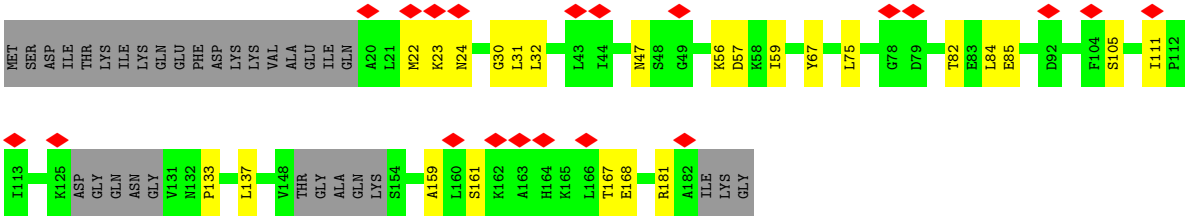




• Molecule 2: Decoration protein P03

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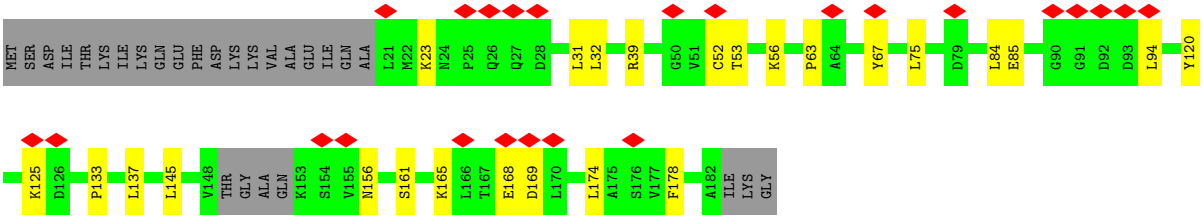




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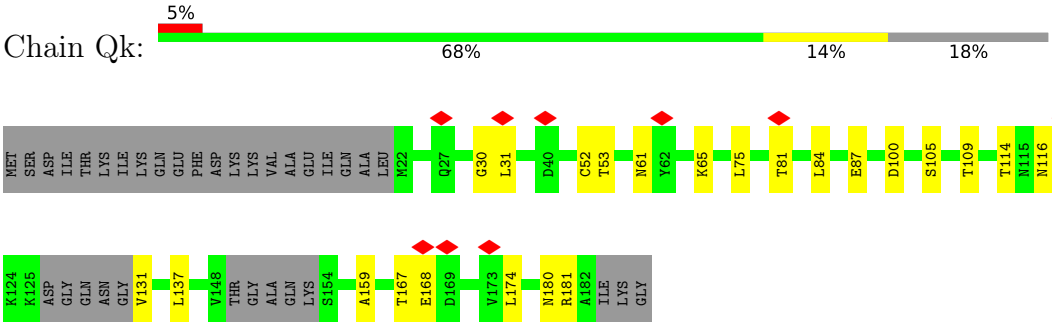
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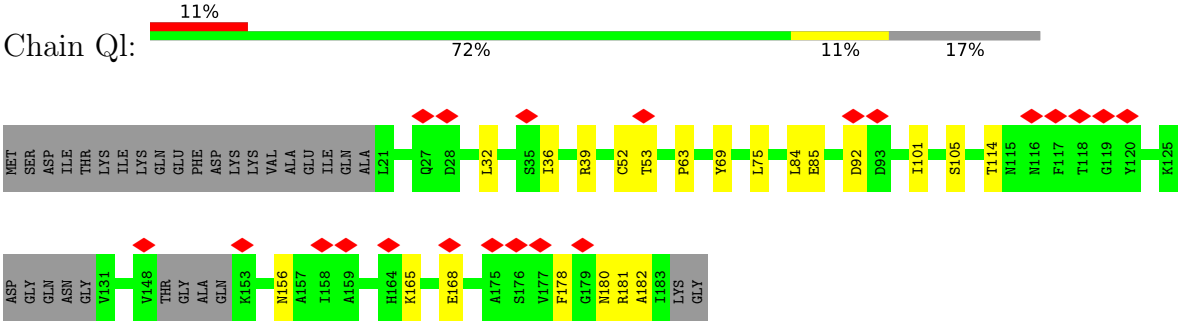
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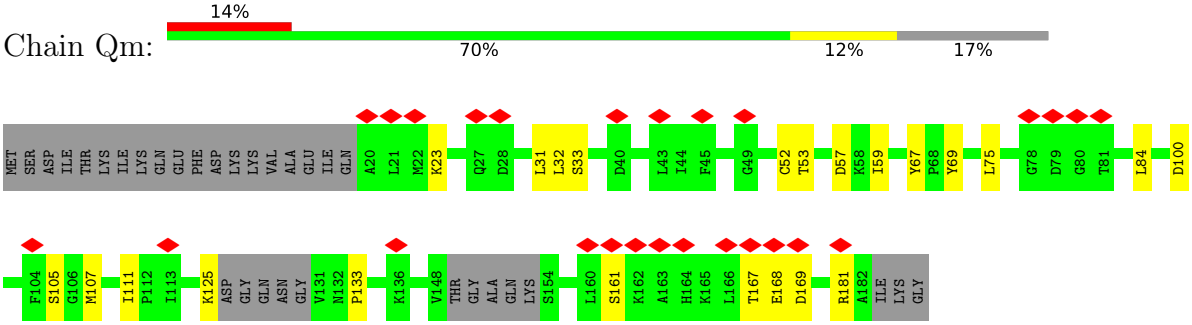
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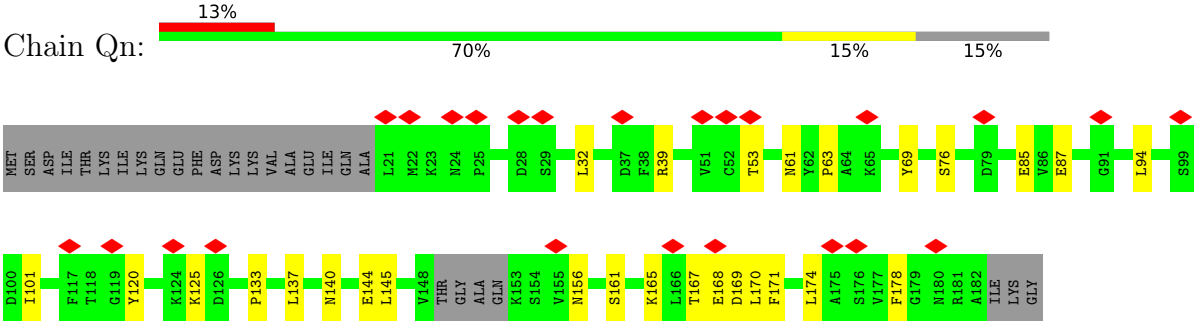
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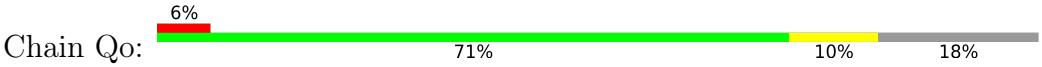
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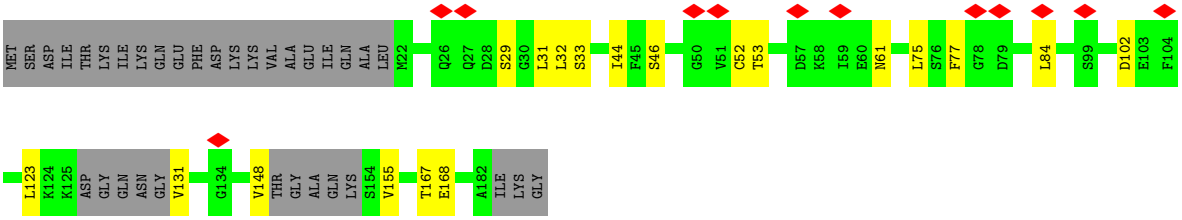
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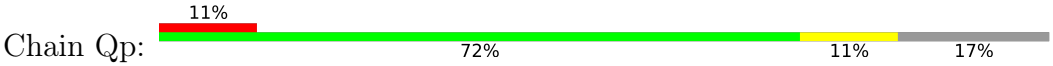
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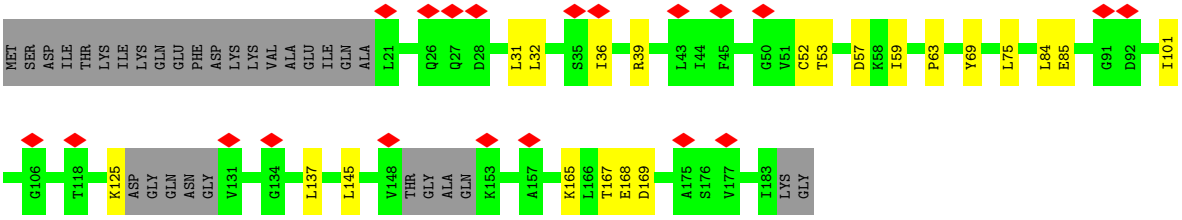
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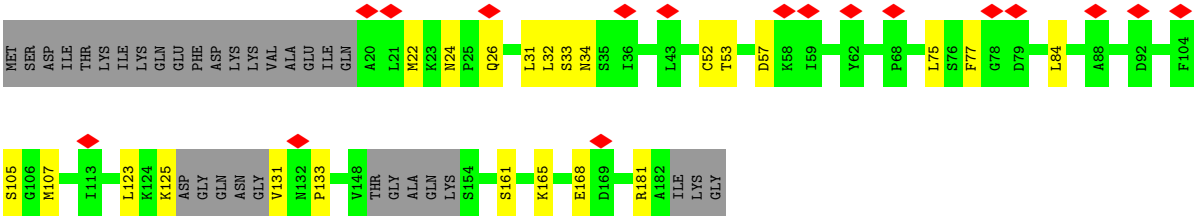
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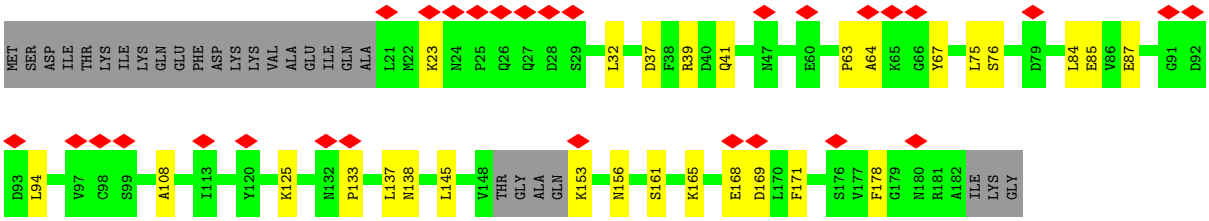
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• Molecule 2: Decoration protein P03

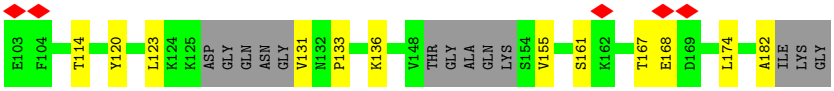




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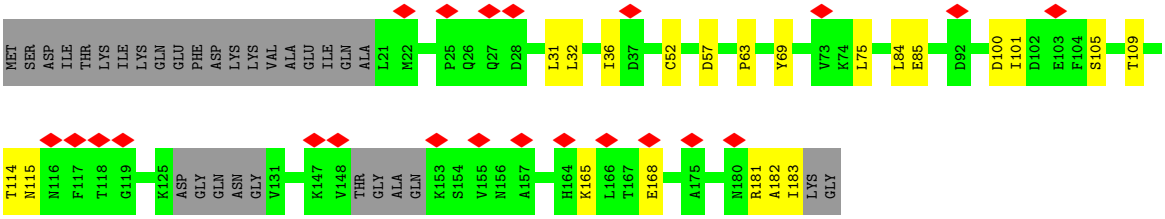




• Molecule 2: Decoration protein P03

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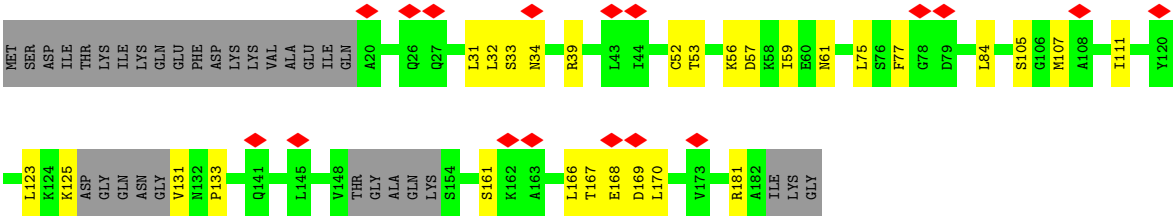




• Molecule 2: Decoration protein P03

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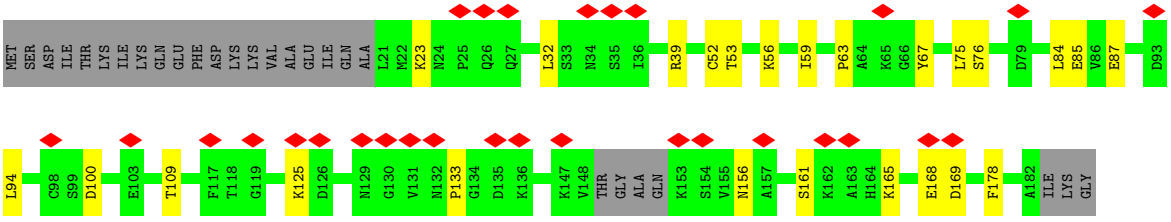




• Molecule 2: Decoration protein P03

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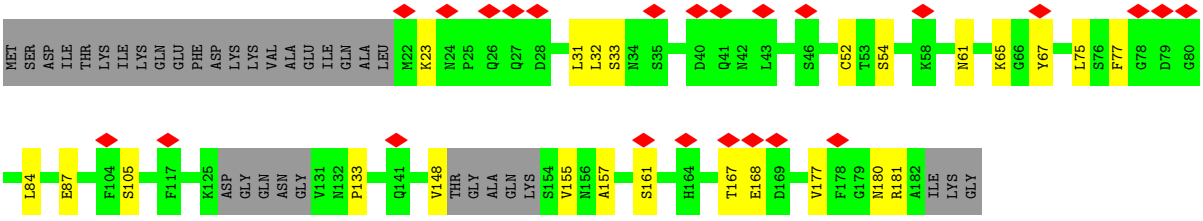




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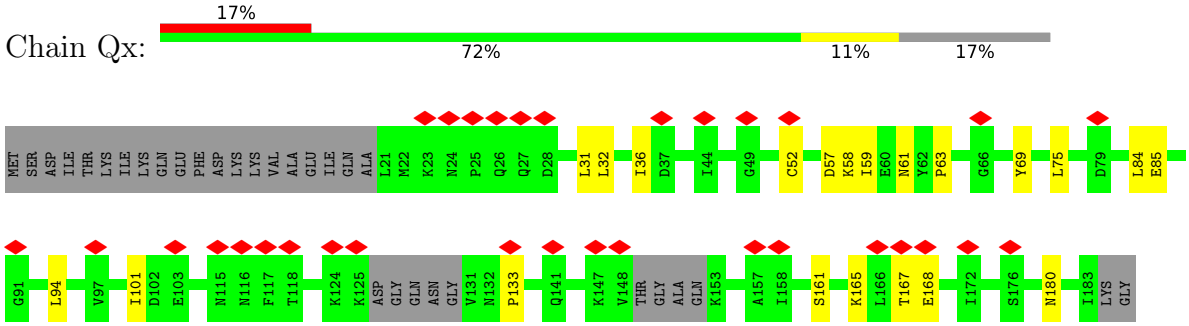
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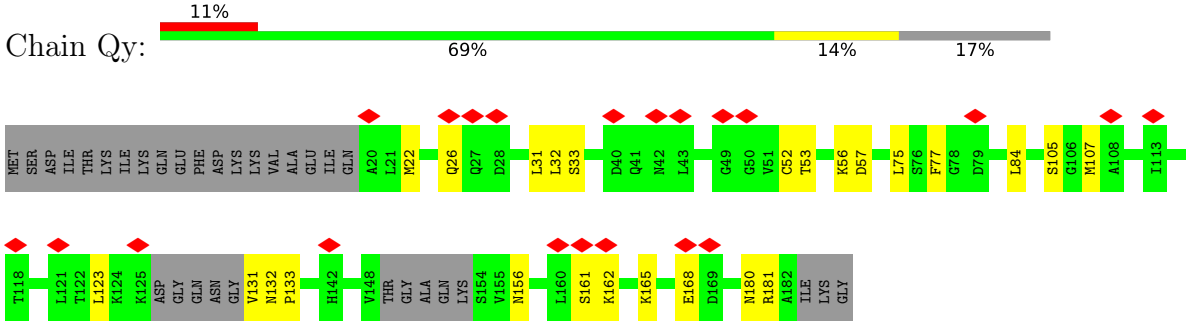
• Molecule 2: Decoration protein P03

Chain Qx:



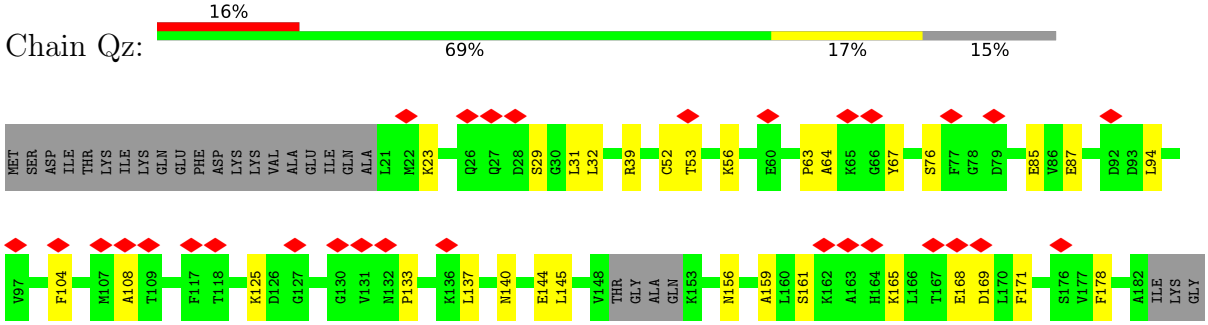
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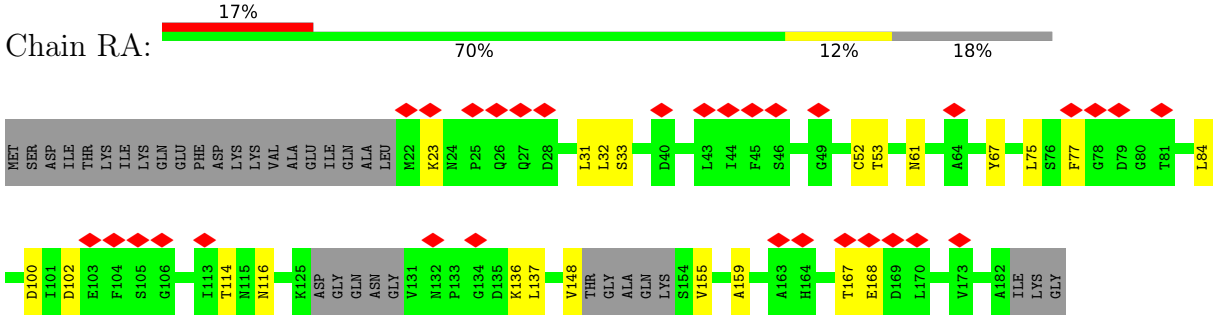
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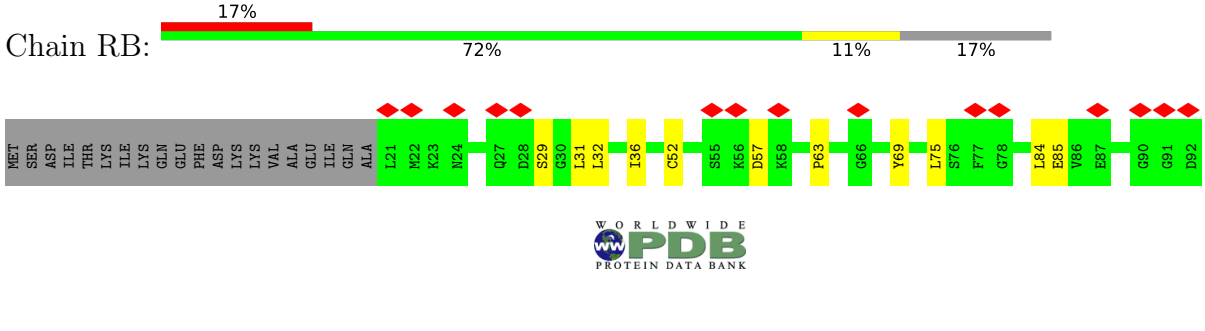
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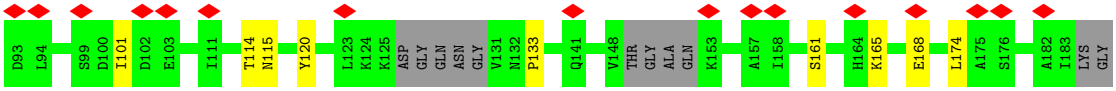
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• Molecule 2: Decoration protein P03

Chain RB:

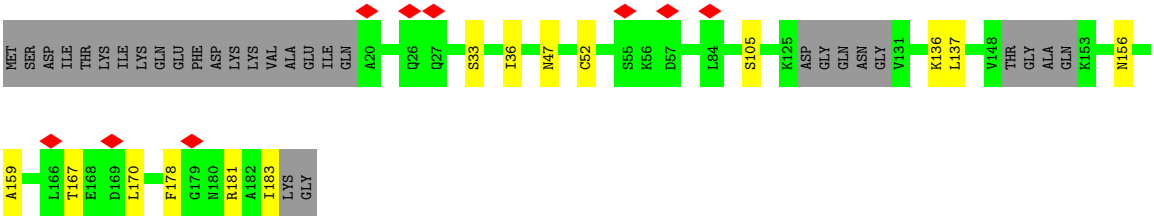




• Molecule 2: Decoration protein P03

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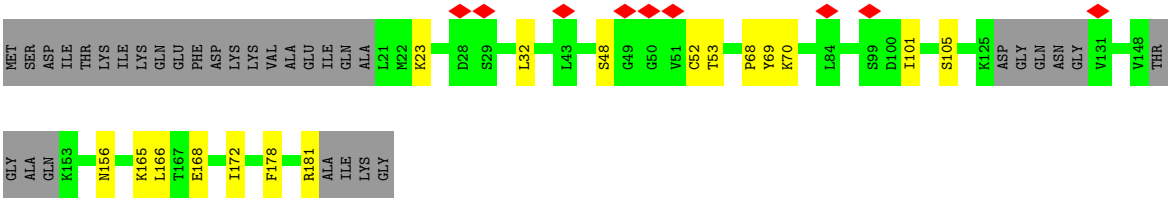




• Molecule 2: Decoration protein P03

Chain Uo:

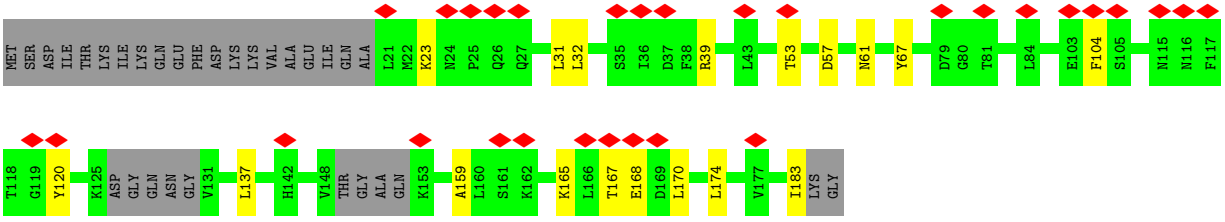




• Molecule 2: Decoration protein P03

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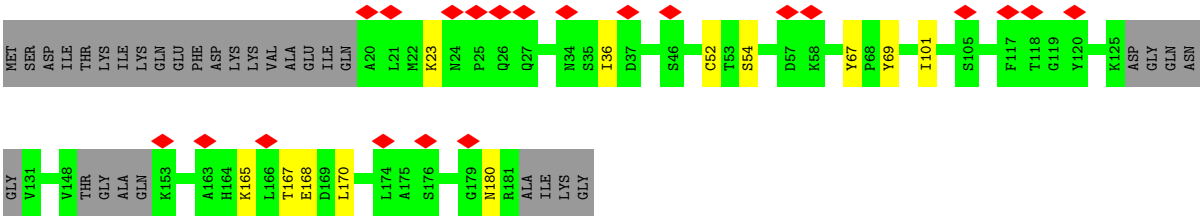




• Molecule 2: Decoration protein P03

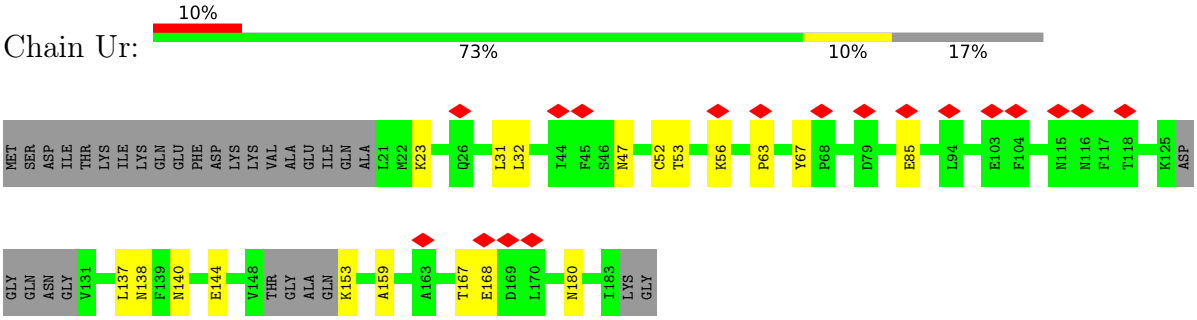
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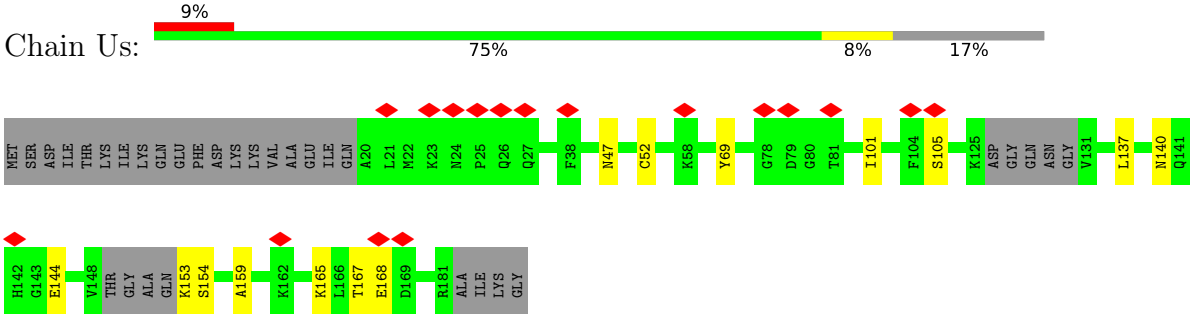
• Molecule 2: Decoration protein P03

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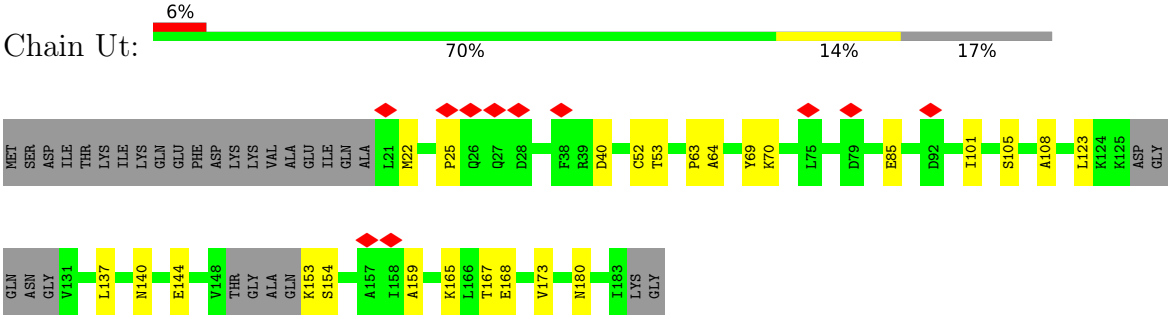
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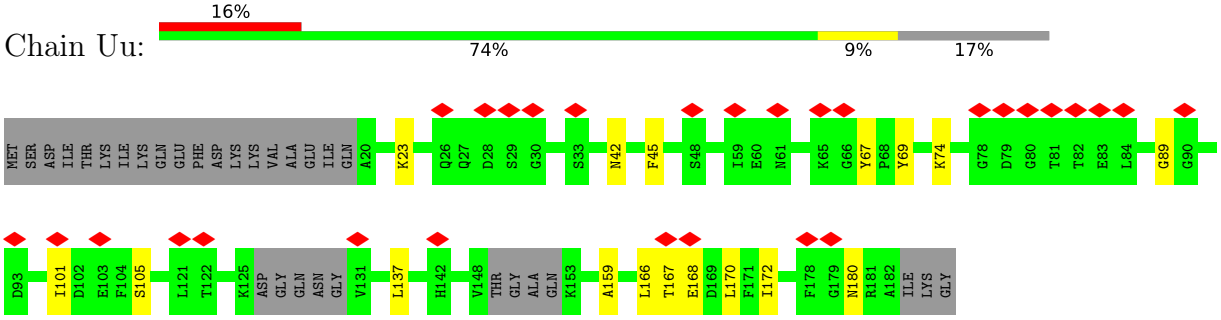
• Molecule 2: Decoration protein P03

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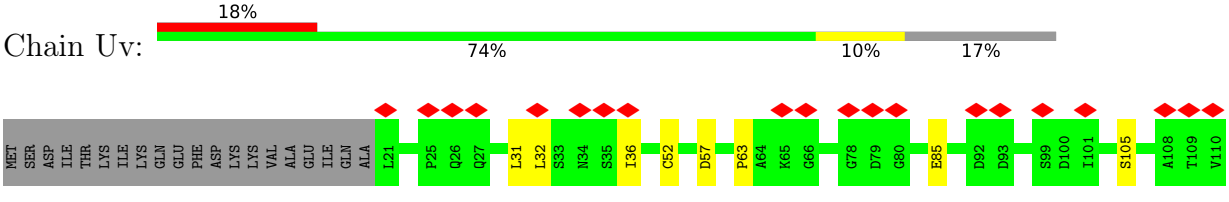
• Molecule 2: Decoration protein P03

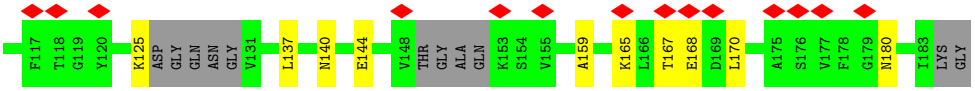
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• Molecule 2: Decoration protein P03

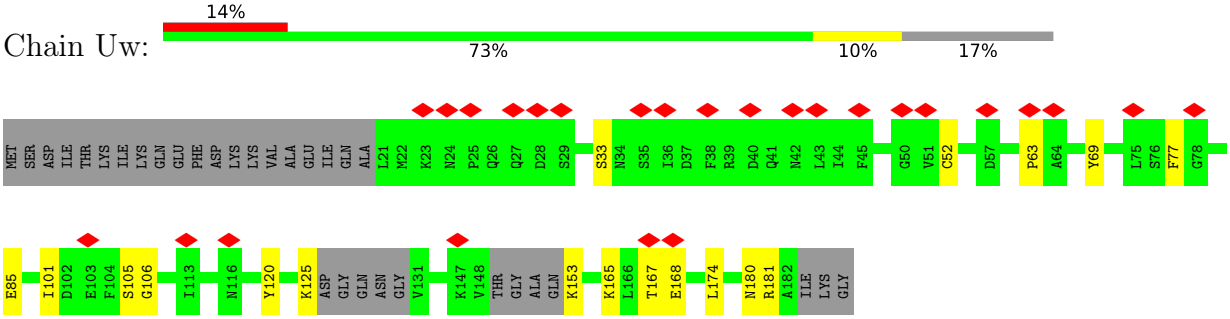
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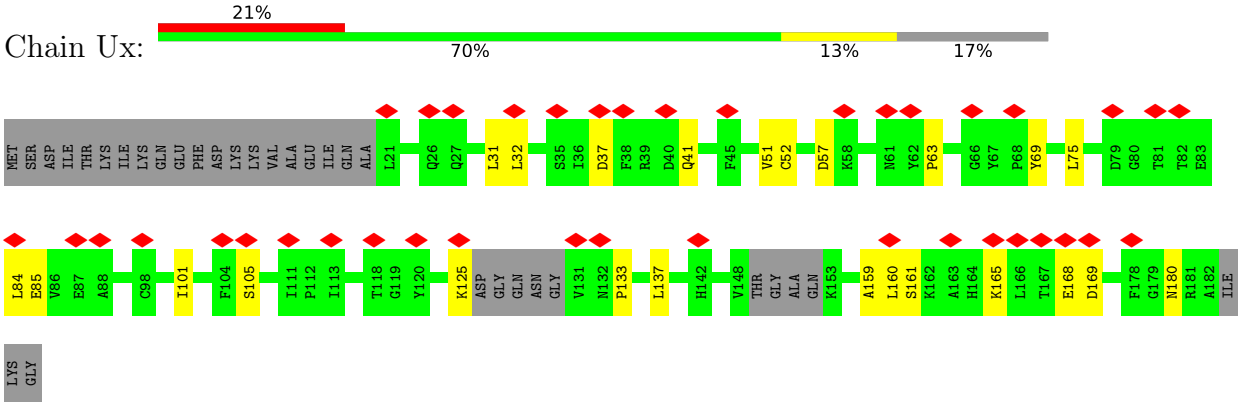
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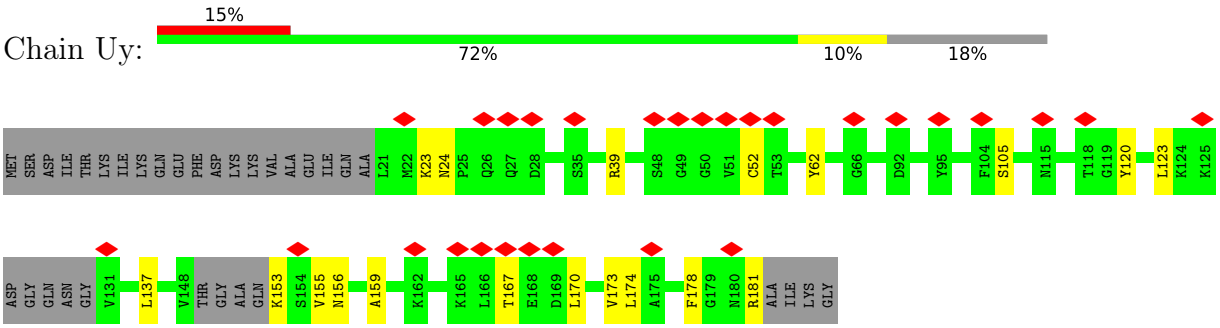
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Chain Ux:



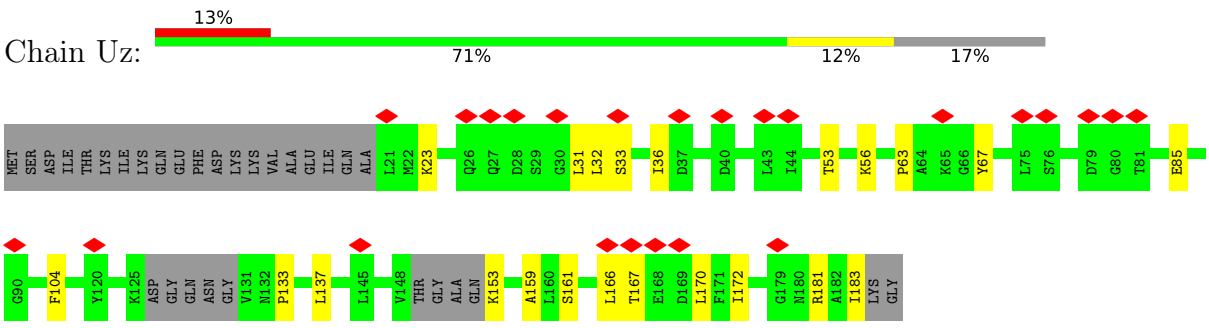
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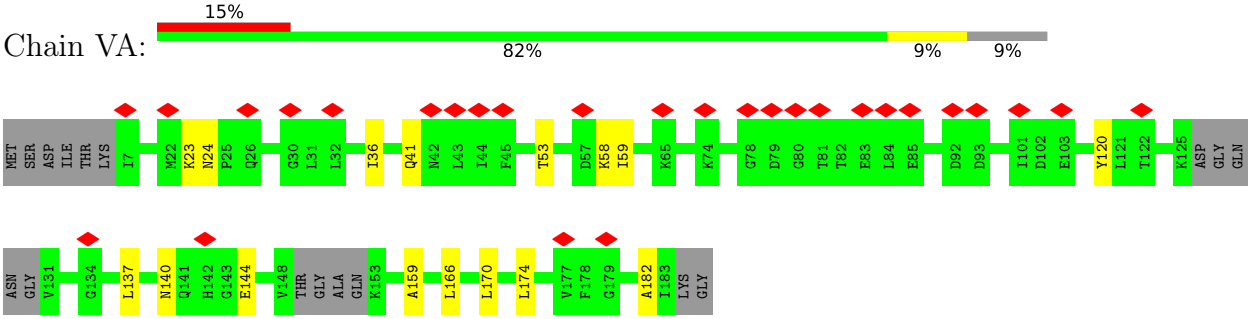
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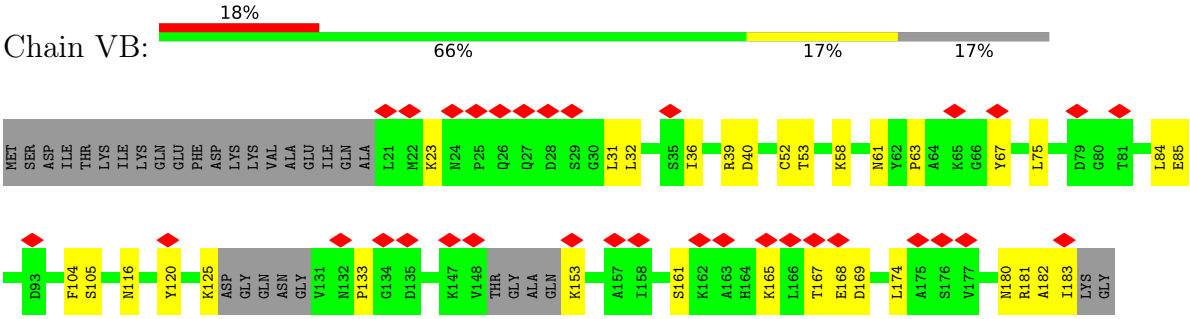
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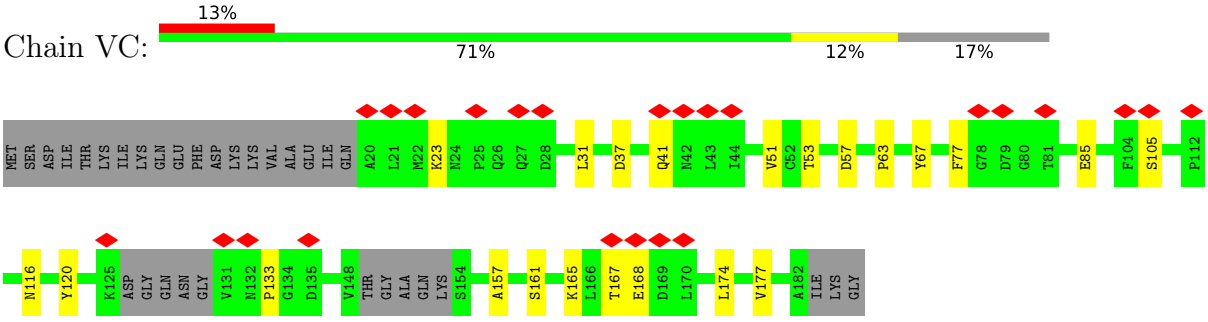
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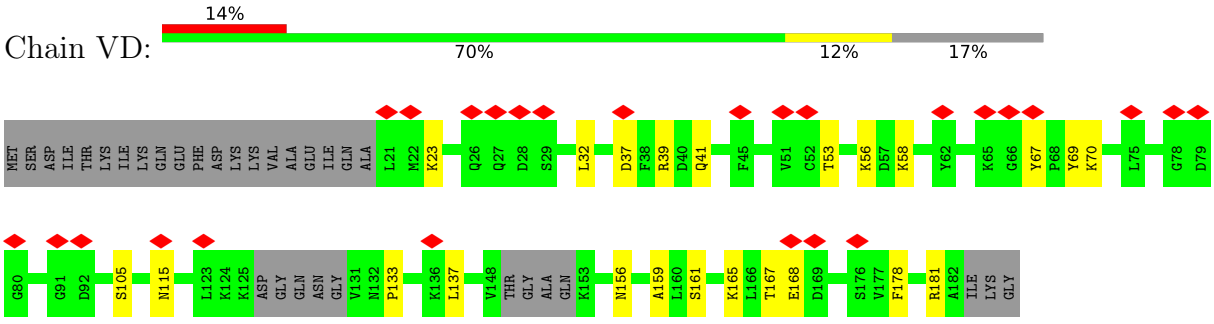
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Chain VC:



• Molecule 2: Decoration protein P03

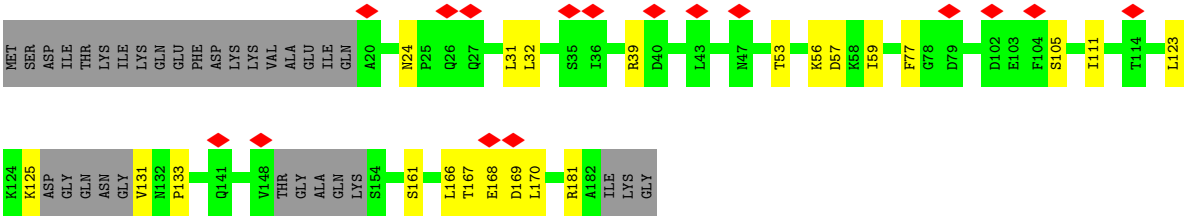
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• Molecule 2: Decoration protein P03

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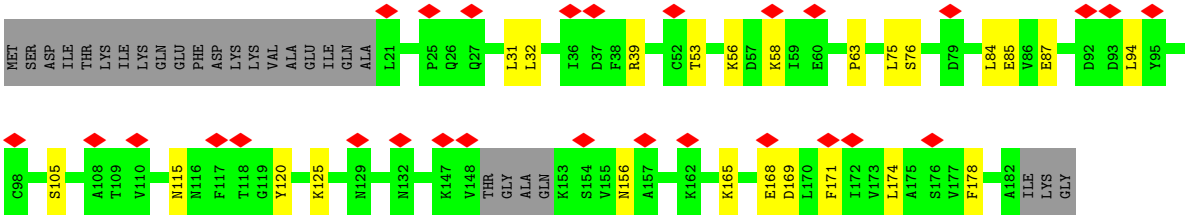




• Molecule 2: Decoration protein P03

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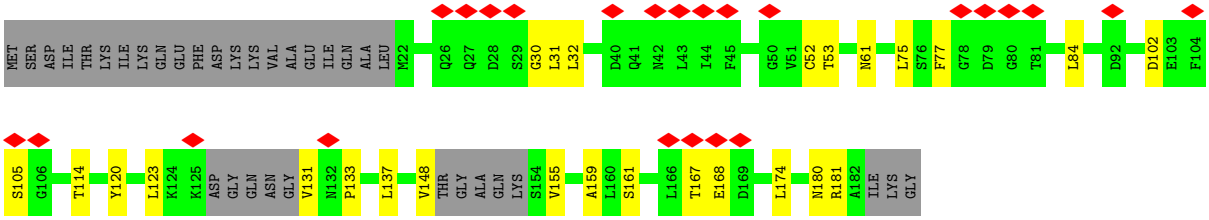




• Molecule 2: Decoration protein P03

Chain VG:

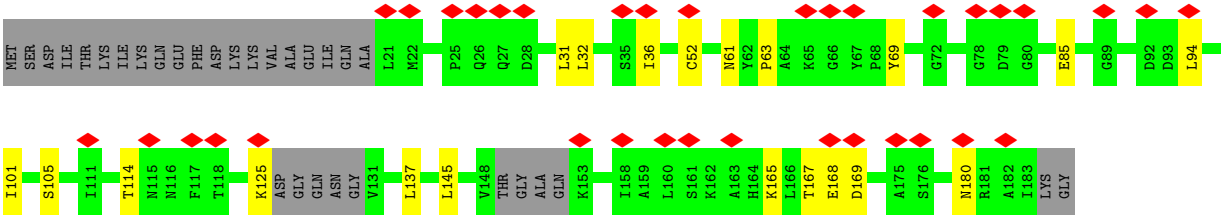




• Molecule 2: Decoration protein P03

Chain VH:

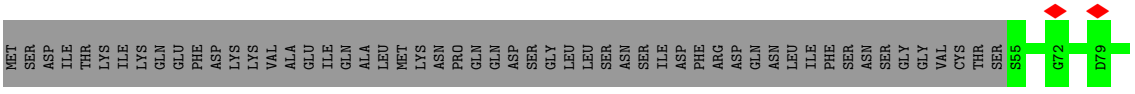




• Molecule 2: Decoration protein P03

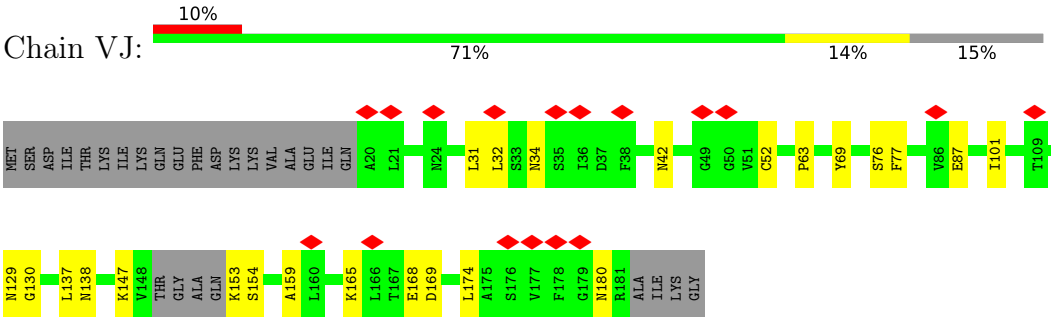
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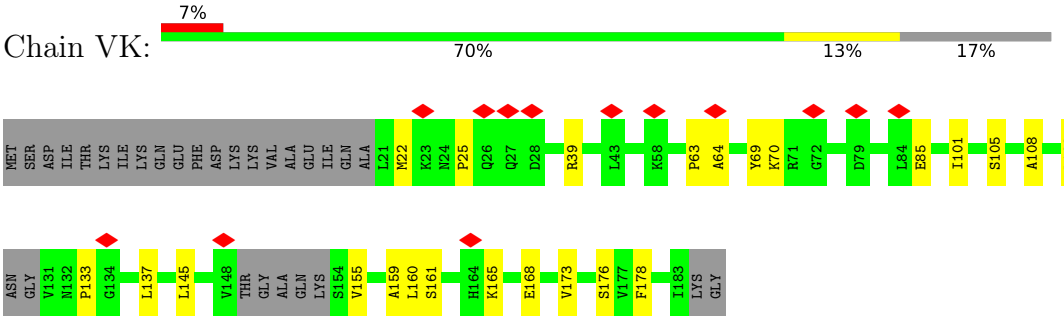




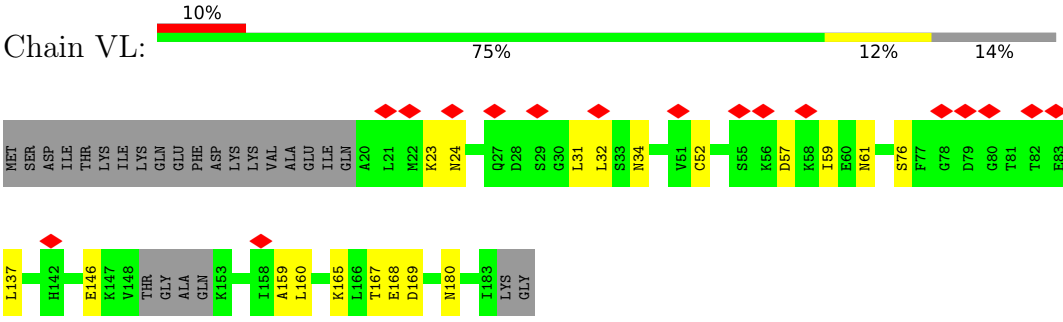
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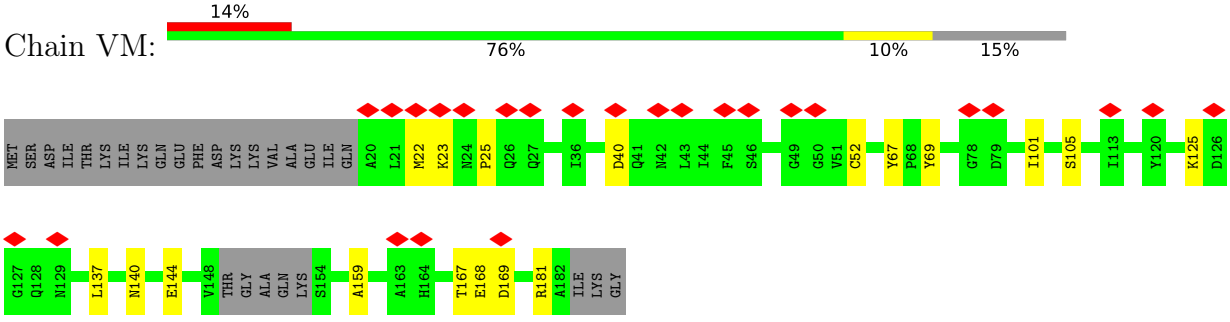
• Molecule 2: Decoration protein P03



• Molecule 2: Decoration protein P03

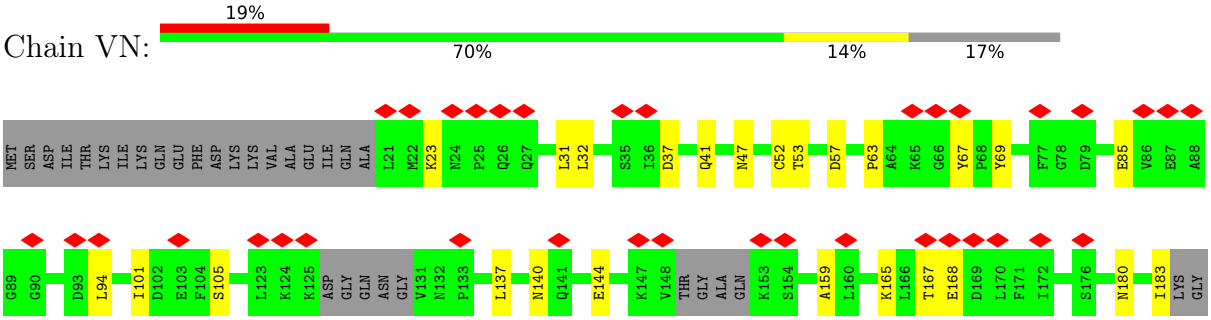


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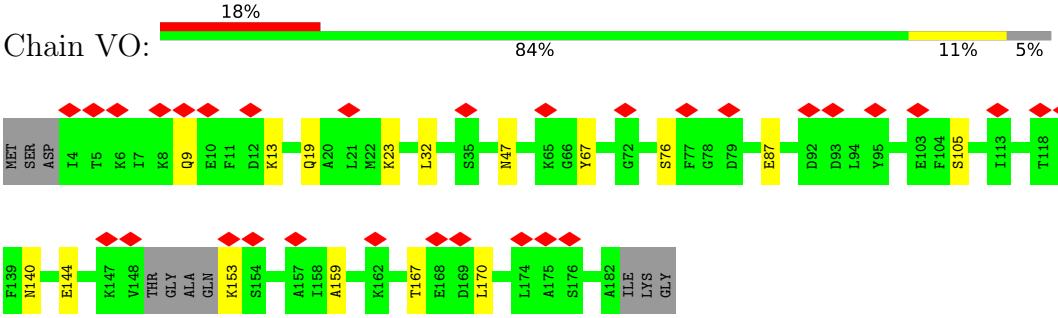
• Molecule 2: Decoration protein P03

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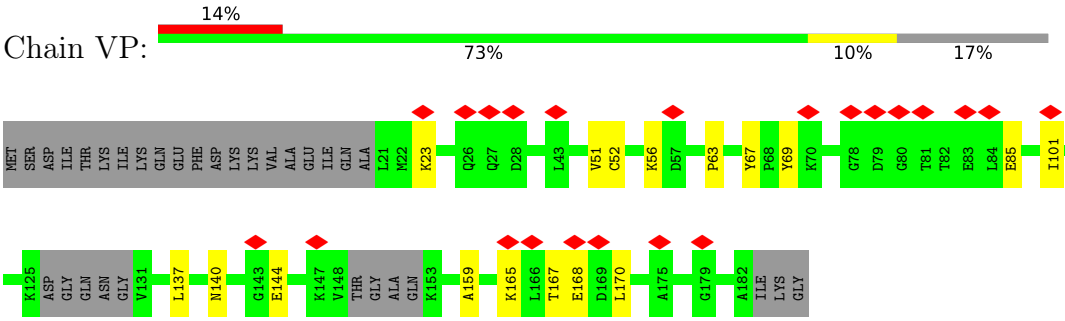
• Molecule 2: Decoration protein P03

Chain VO:



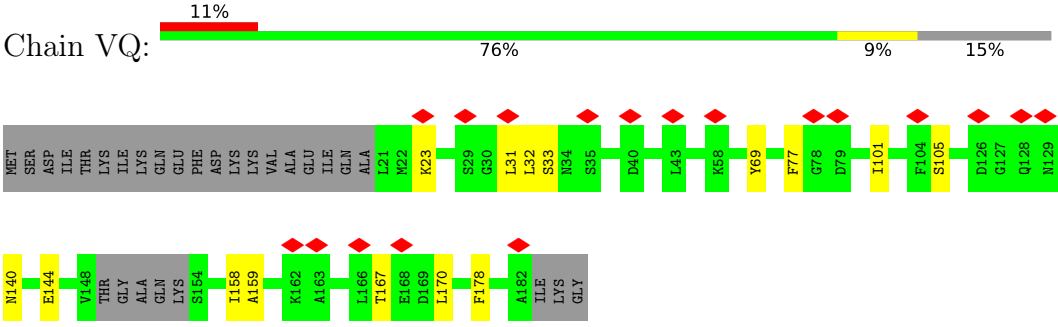
• Molecule 2: Decoration protein P03

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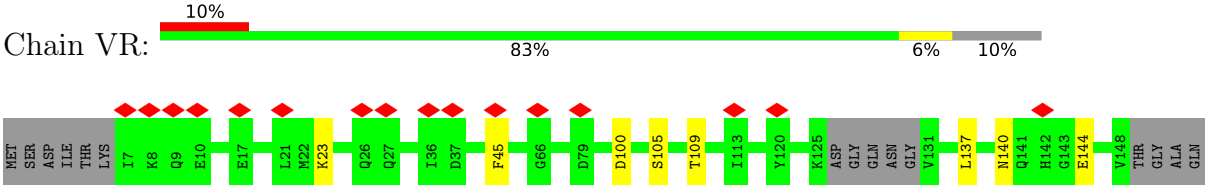
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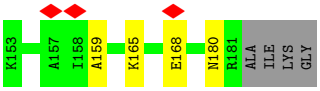
Chain VQ:



• Molecule 2: Decoration protein P03

Chain VR:

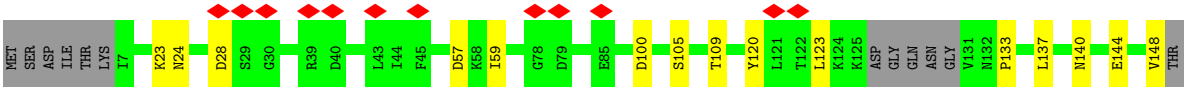


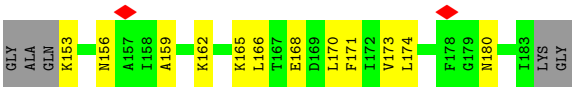


• Molecule 2: Decoration protein P03

Chain VS:



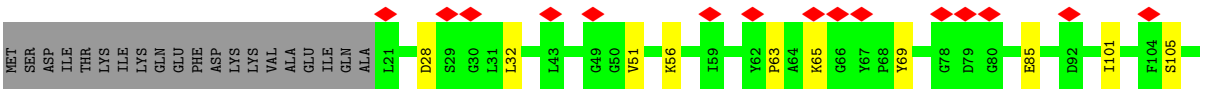


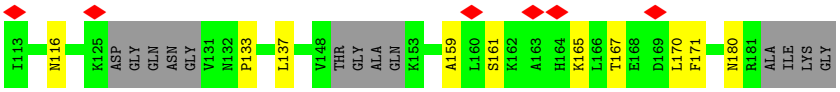


• Molecule 2: Decoration protein P03

Chain VT:



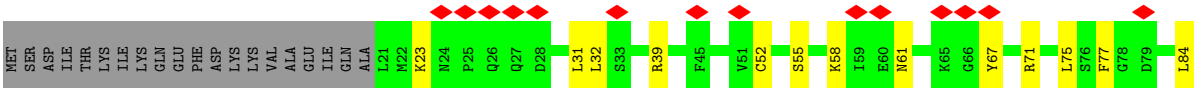


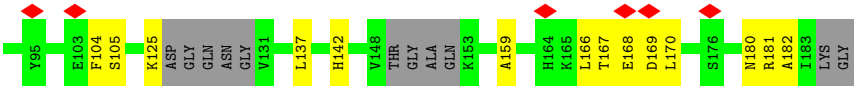


• Molecule 2: Decoration protein P03

Chain VU:



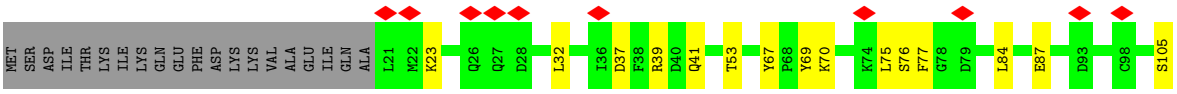


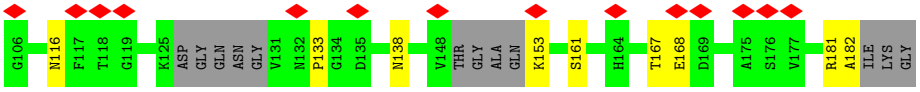


• Molecule 2: Decoration protein P03

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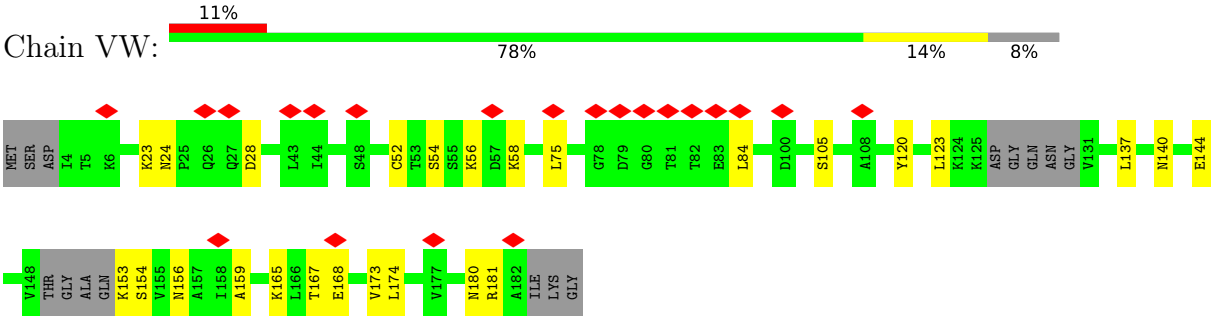






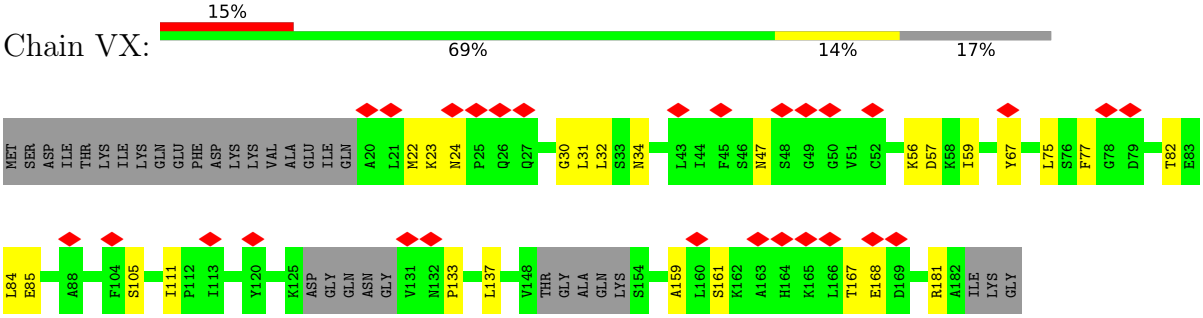
• Molecule 2: Decoration protein P03

Chain VW:



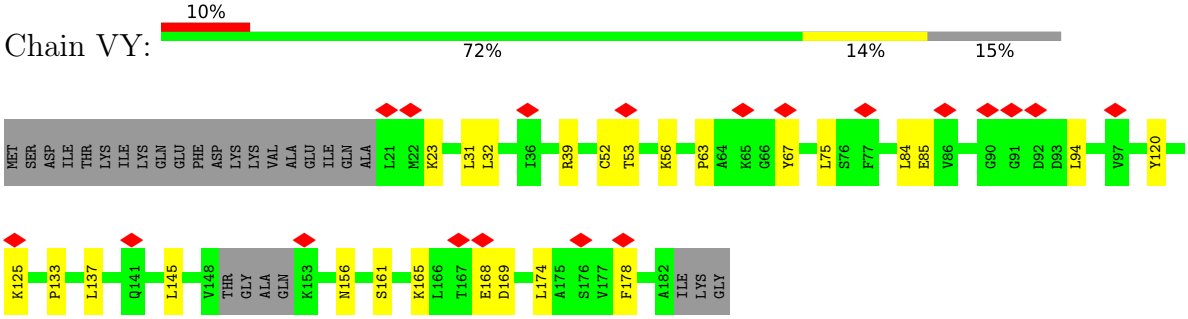
• Molecule 2: Decoration protein P03

Chain VX:



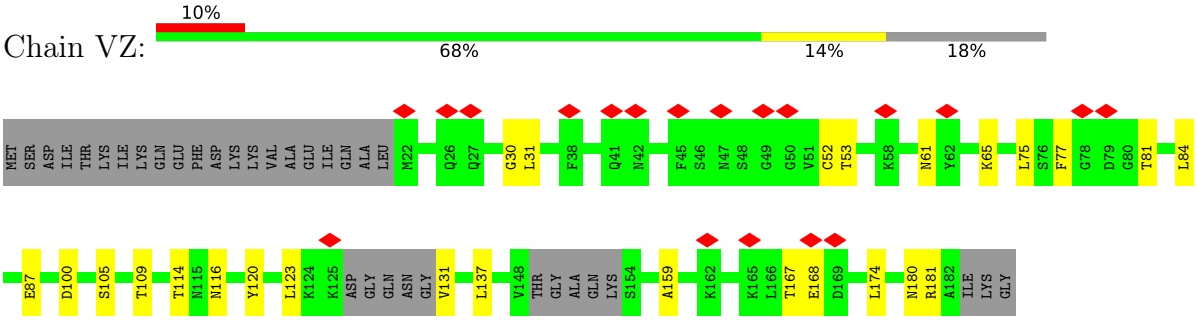
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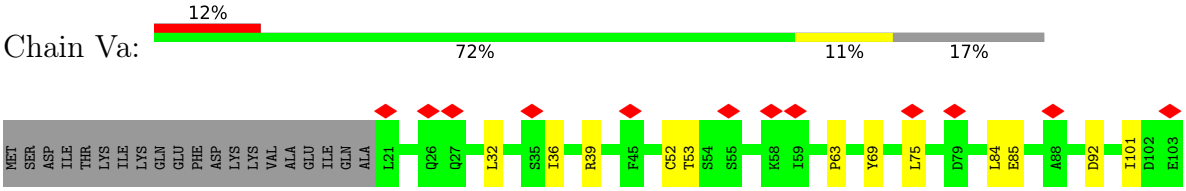
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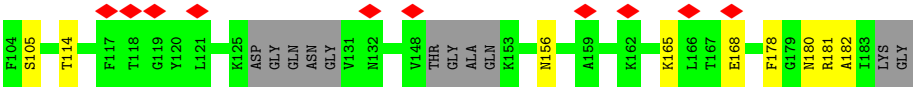
Chain VZ:



• Molecule 2: Decoration protein P03

Chain Va:

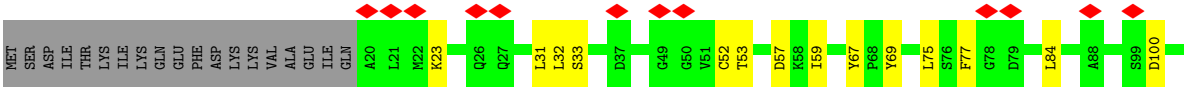


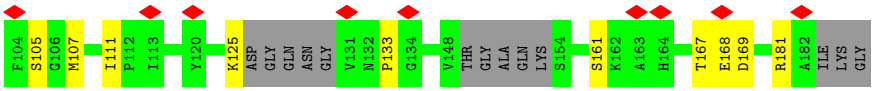


• Molecule 2: Decoration protein P03

Chain Vb:



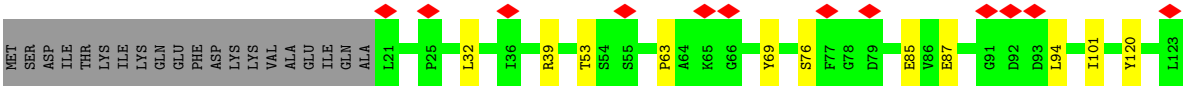


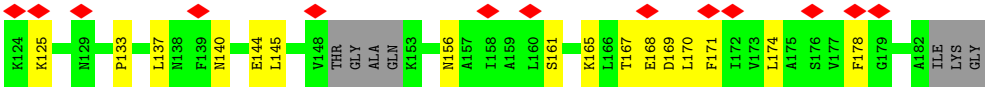


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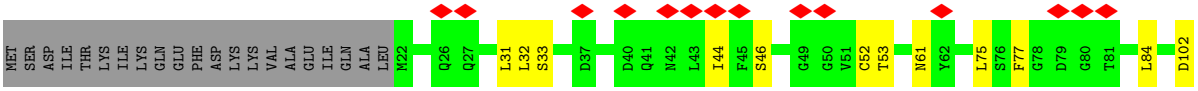


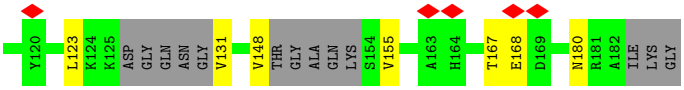


• Molecule 2: Decoration protein P03

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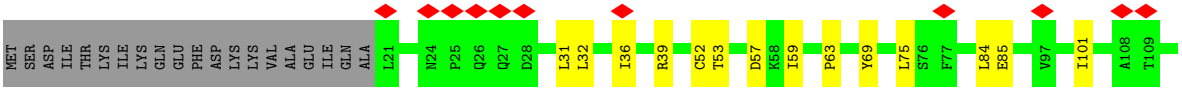


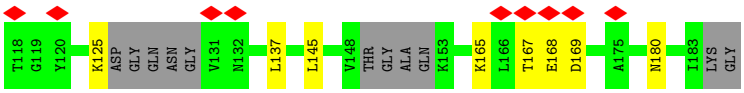


• Molecule 2: Decoration protein P03

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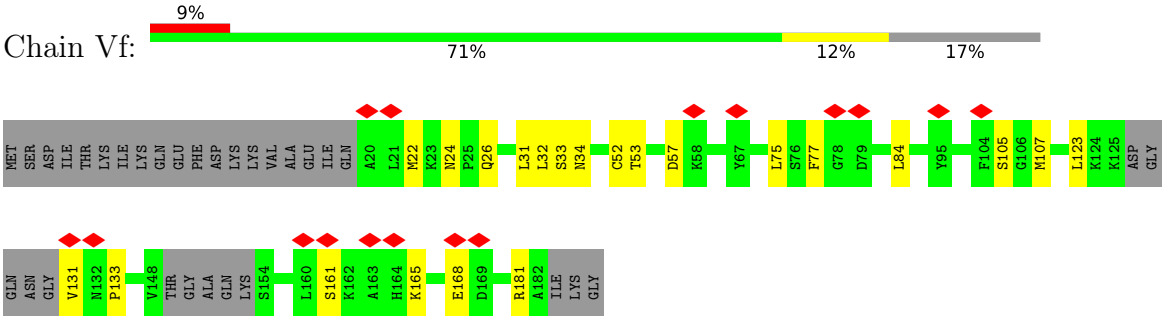






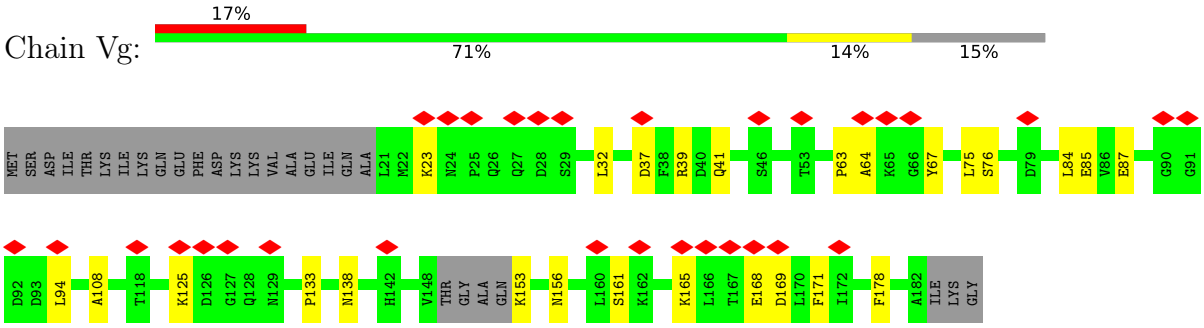
• Molecule 2: Decoration protein P03

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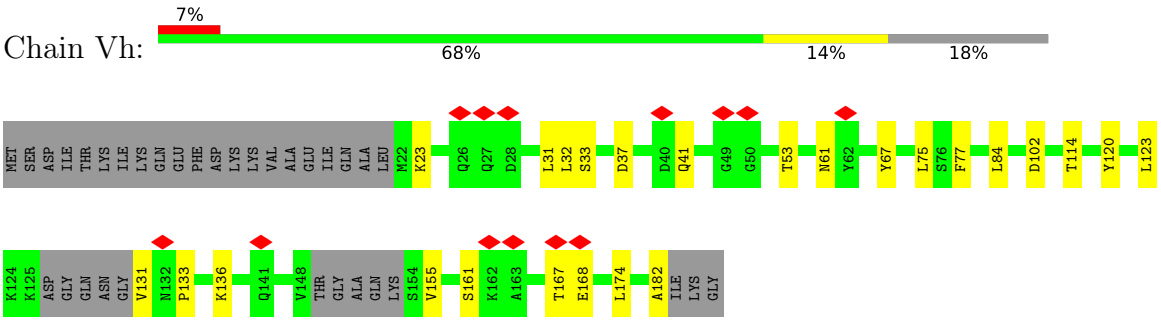
• Molecule 2: Decoration protein P03

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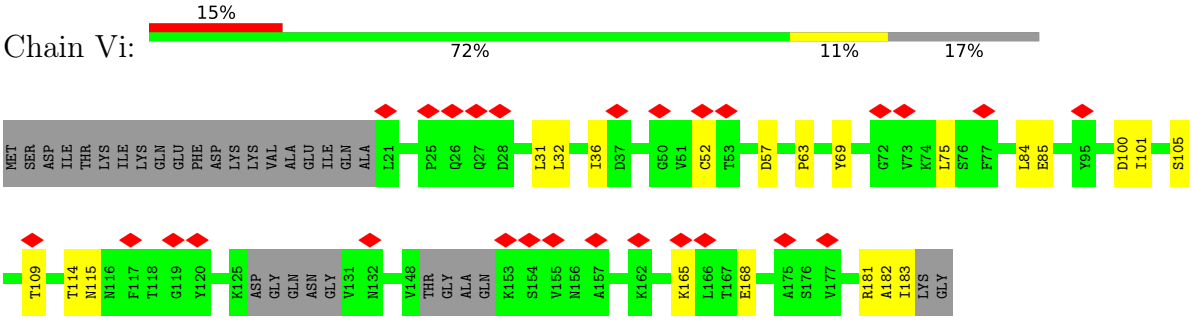
• Molecule 2: Decoration protein P03

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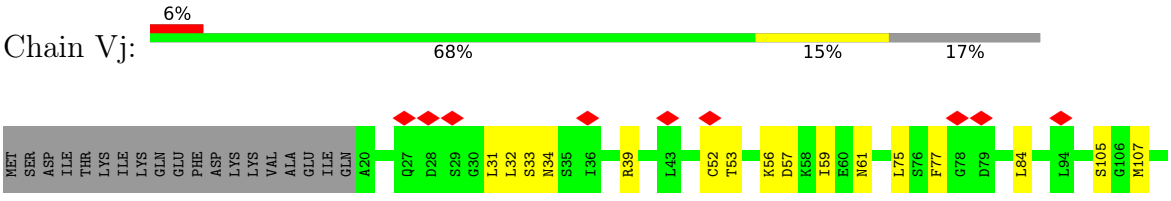
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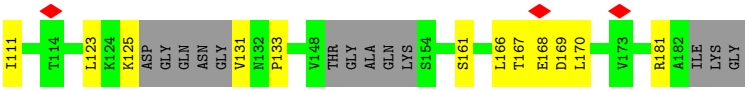
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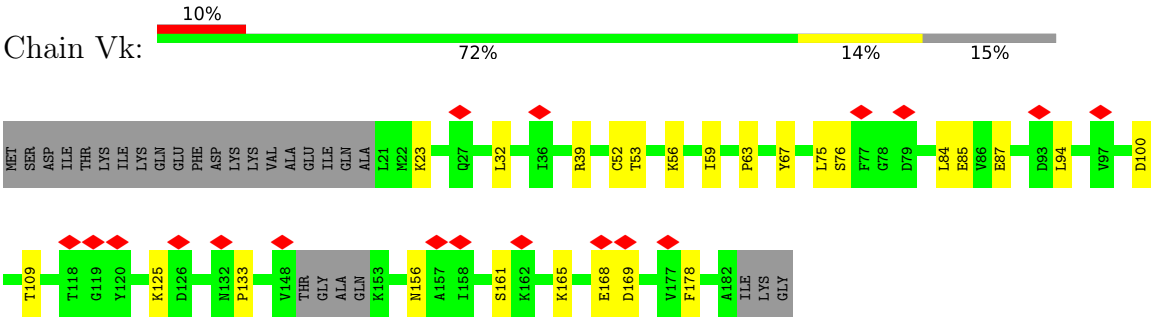
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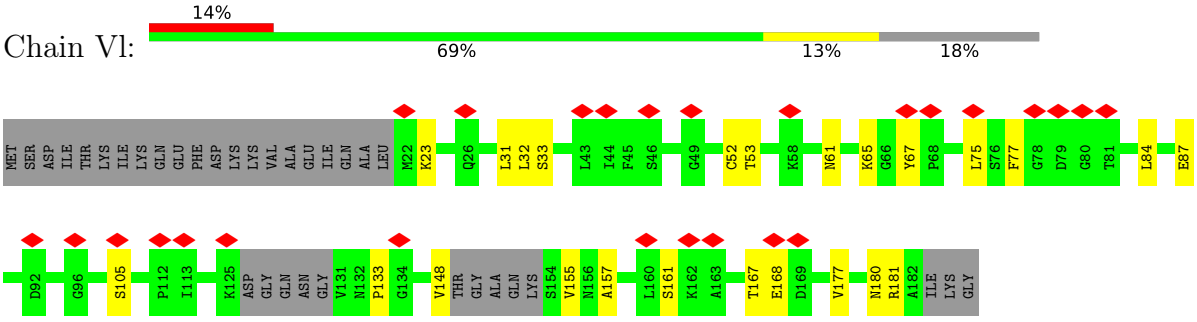




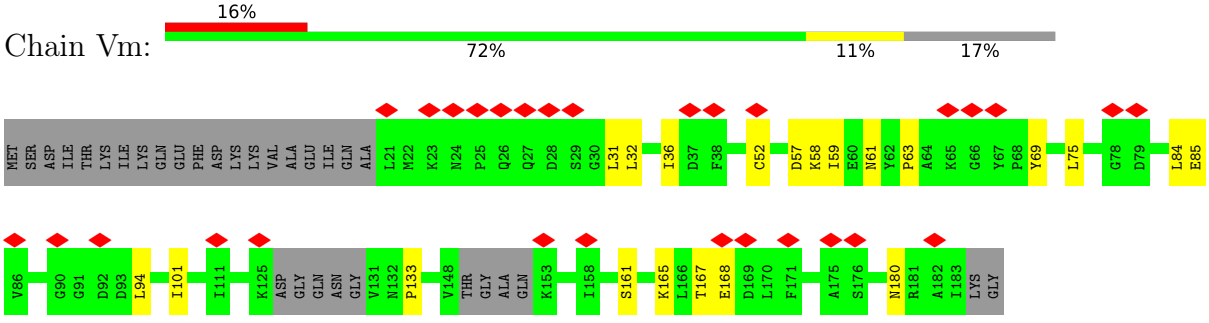
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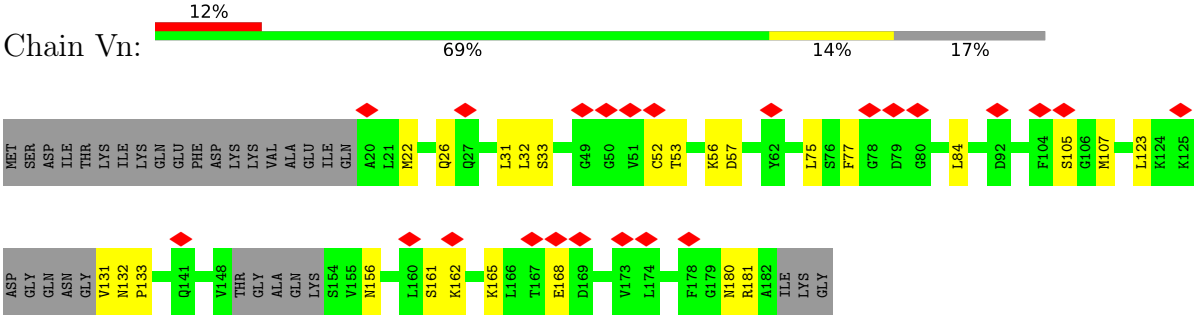
• Molecule 2: Decoration protein P03



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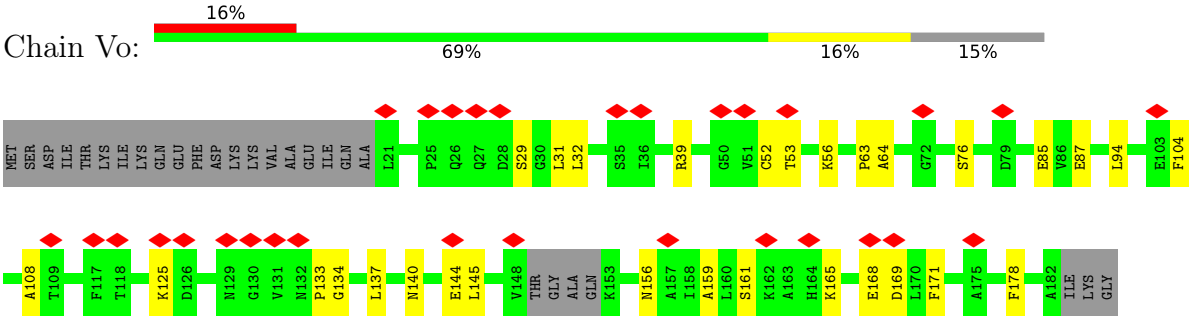


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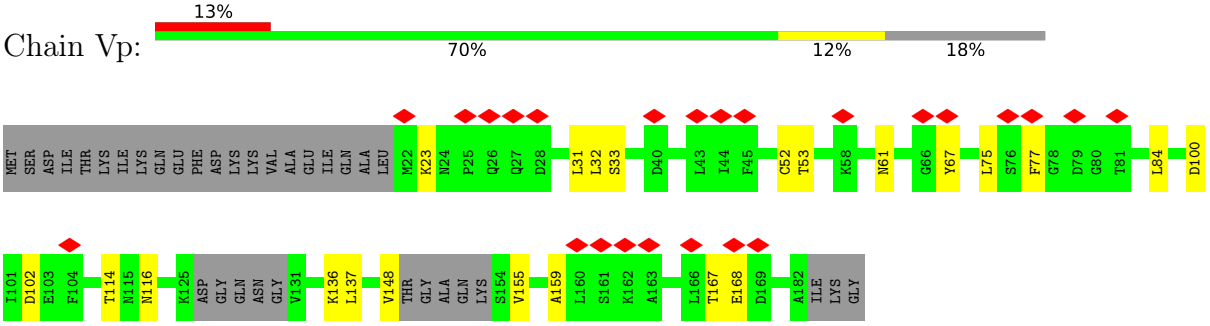
• Molecule 2: Decoration protein P03

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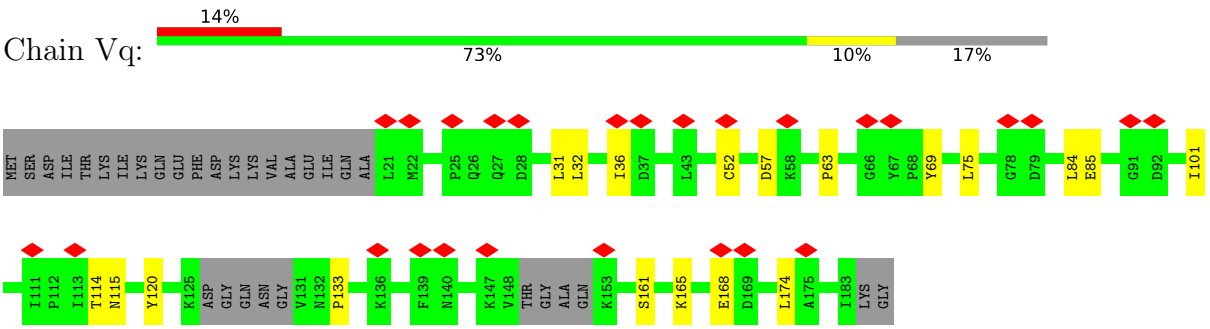
• Molecule 2: Decoration protein P03

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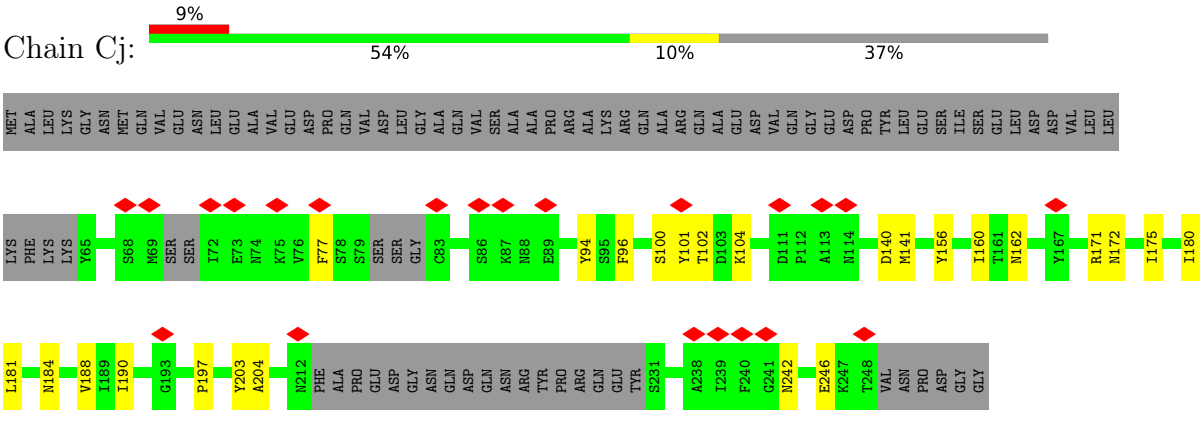
• Molecule 2: Decoration protein P03

Chain Vq:



• Molecule 3: Decoration protein P04

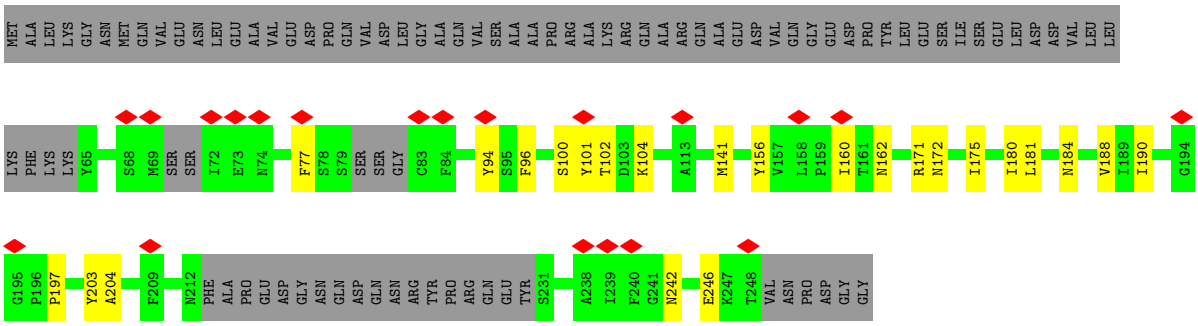
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• Molecule 3: Decoration protein P04

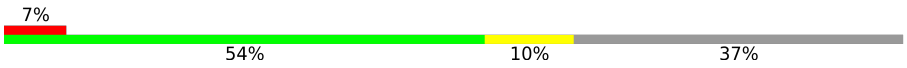
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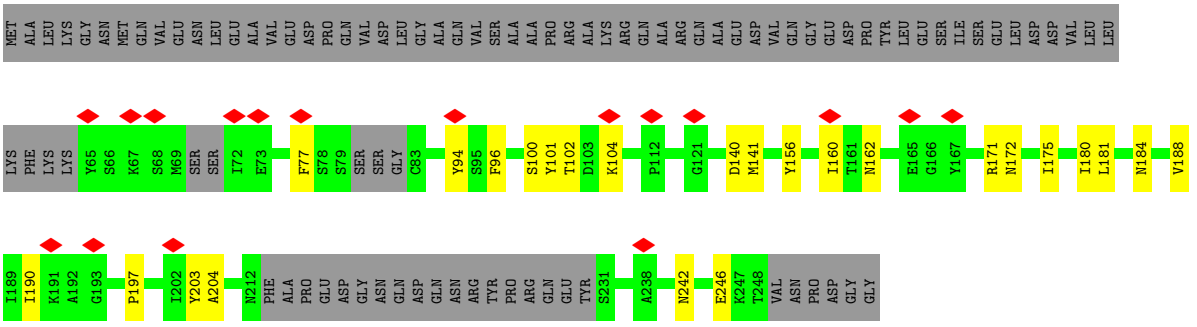




• Molecule 3: Decoration protein P04

Chain MN:

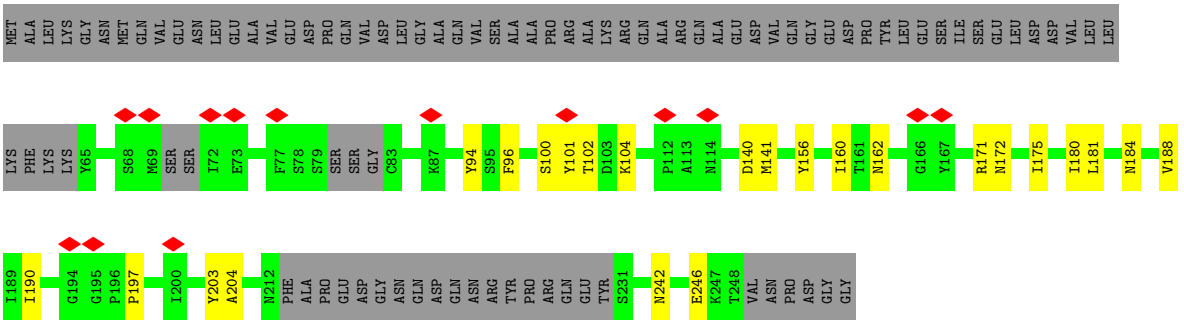




• Molecule 3: Decoration protein P04

Chain RC:

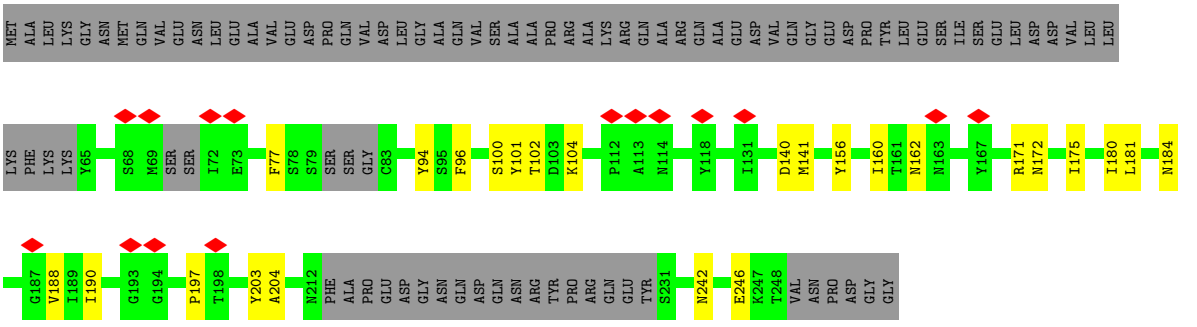




• Molecule 3: Decoration protein P04

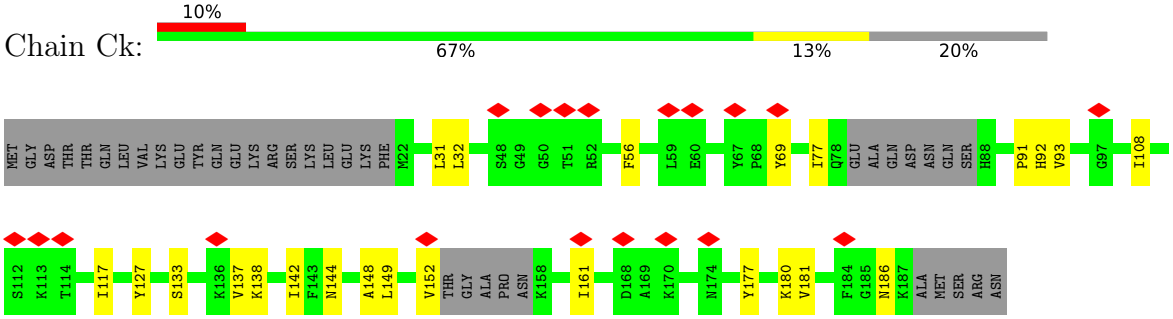
Chain Vr:





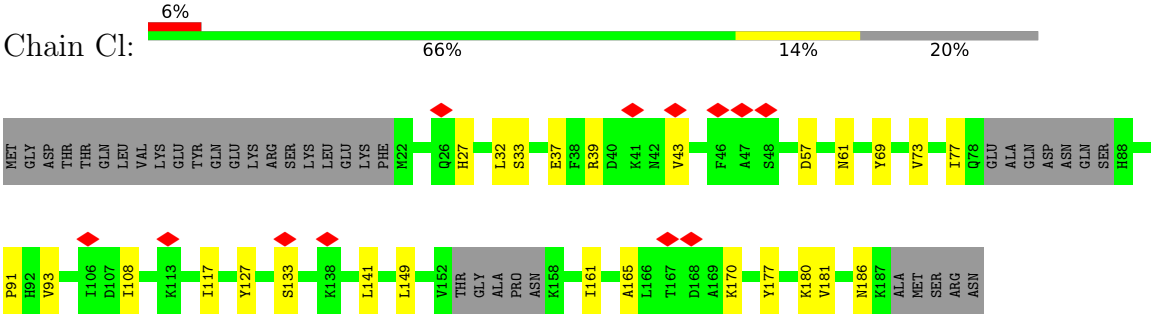
• Molecule 4: DUF228 domain-containing protein

Chain Ck:



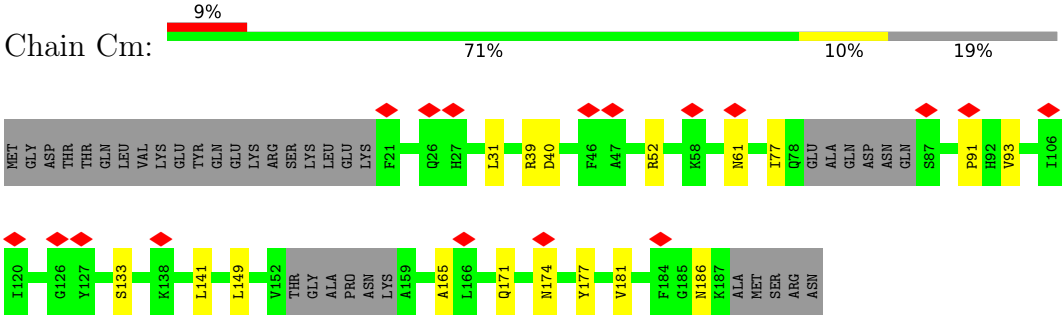
• Molecule 4: DUF228 domain-containing protein

Chain Cl:



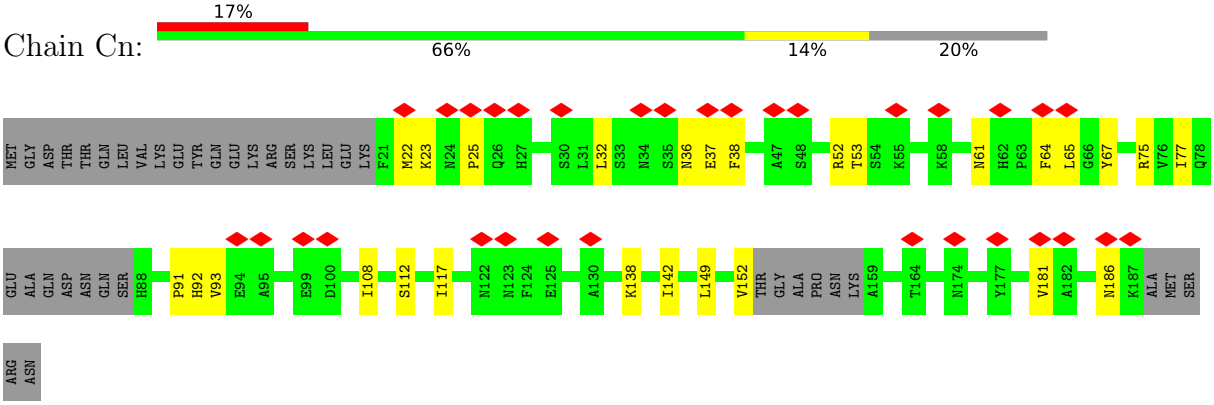
• Molecule 4: DUF228 domain-containing protein

Chain Cm:



• Molecule 4: DUF228 domain-containing protein

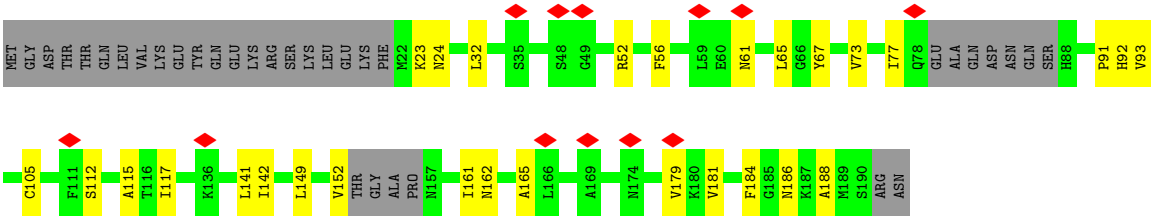
Chain Cn:



• Molecule 4: DUF228 domain-containing protein

Chain Co:

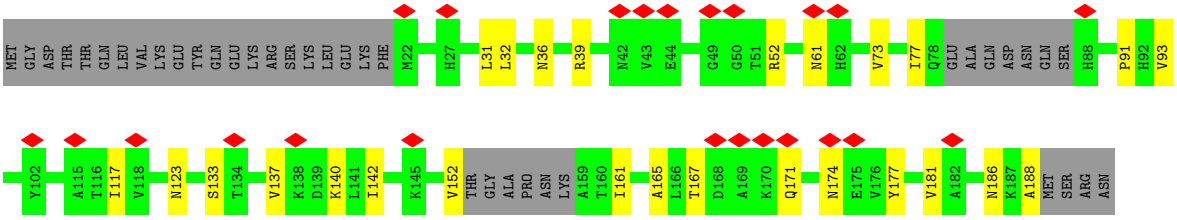




• Molecule 4: DUF228 domain-containing protein

Chain Cp:

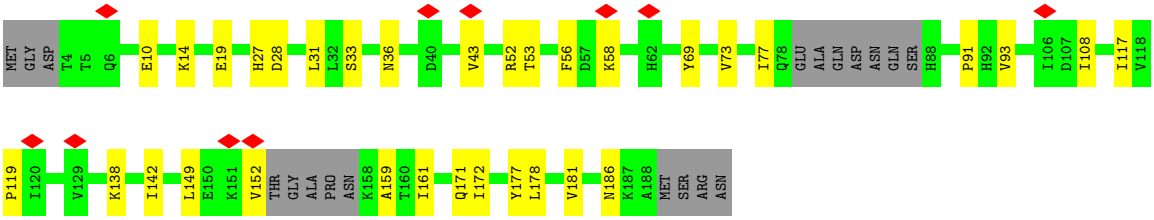




• Molecule 4: DUF228 domain-containing protein

Chain Cq:

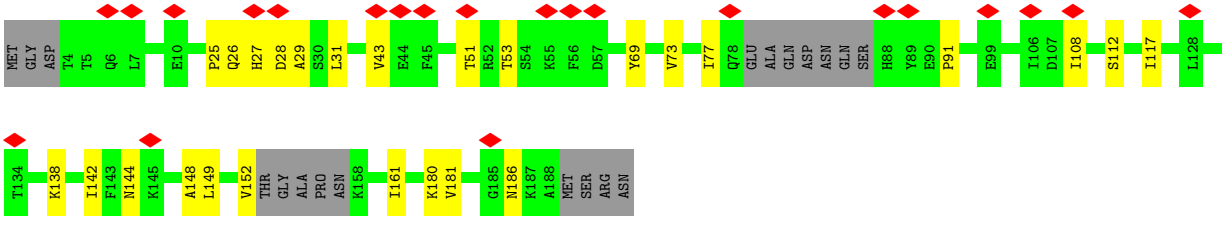




• Molecule 4: DUF228 domain-containing protein

Chain Cr:

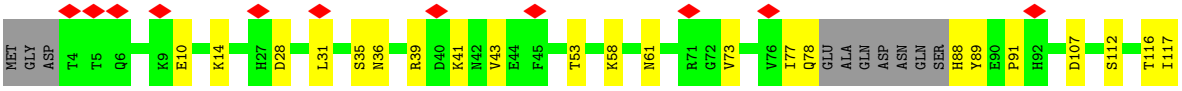


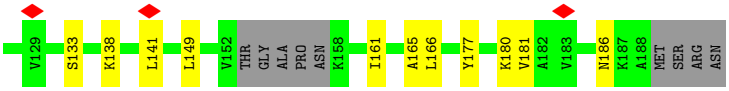


• Molecule 4: DUF228 domain-containing protein

Chain Cs:



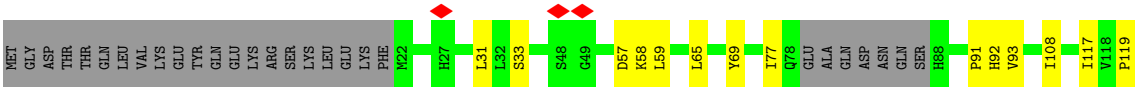


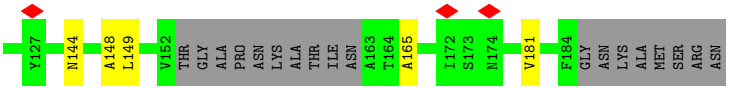


• Molecule 4: DUF228 domain-containing protein

Chain Ct:



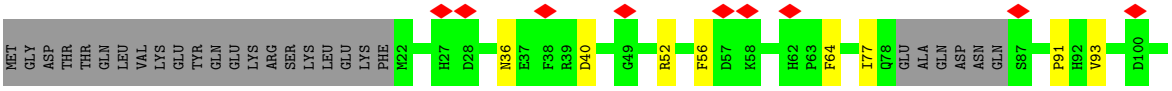


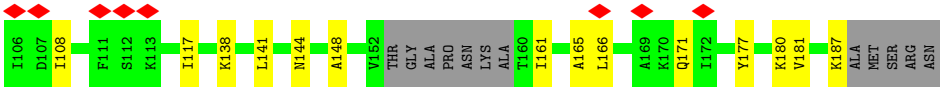


• Molecule 4: DUF228 domain-containing protein

Chain Cu:



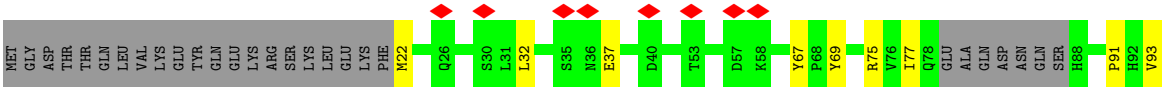


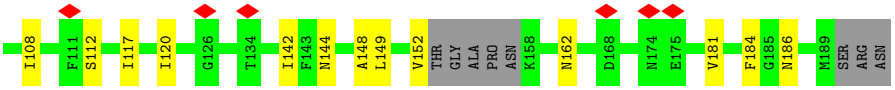


• Molecule 4: DUF228 domain-containing protein

Chain Cv:



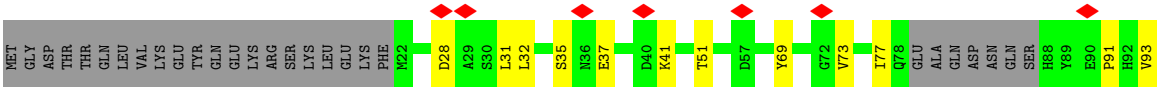


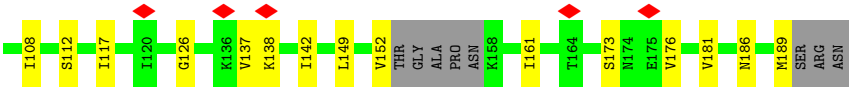


• Molecule 4: DUF228 domain-containing protein

Chain Cw:

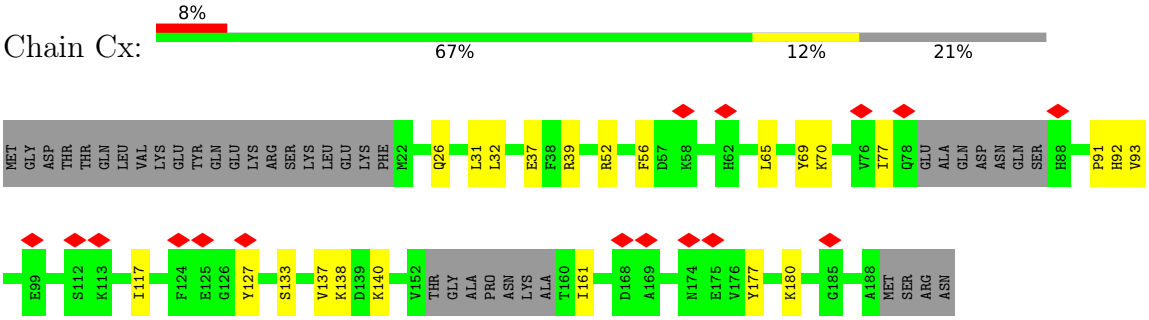






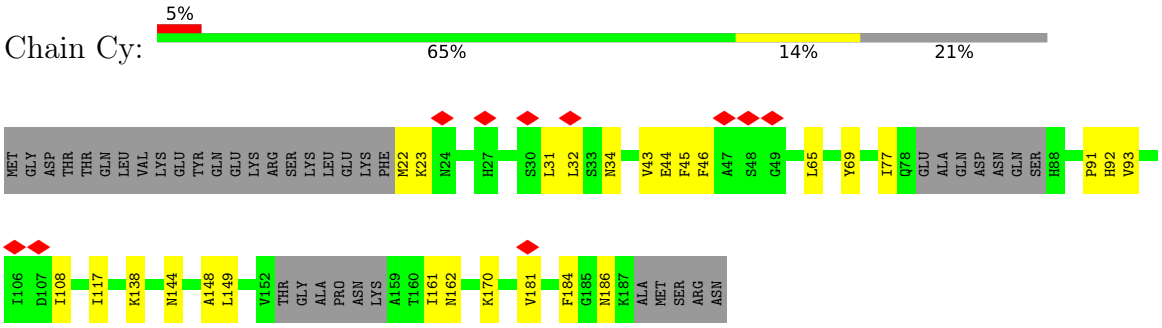
• Molecule 4: DUF228 domain-containing protein

Chain Cx:



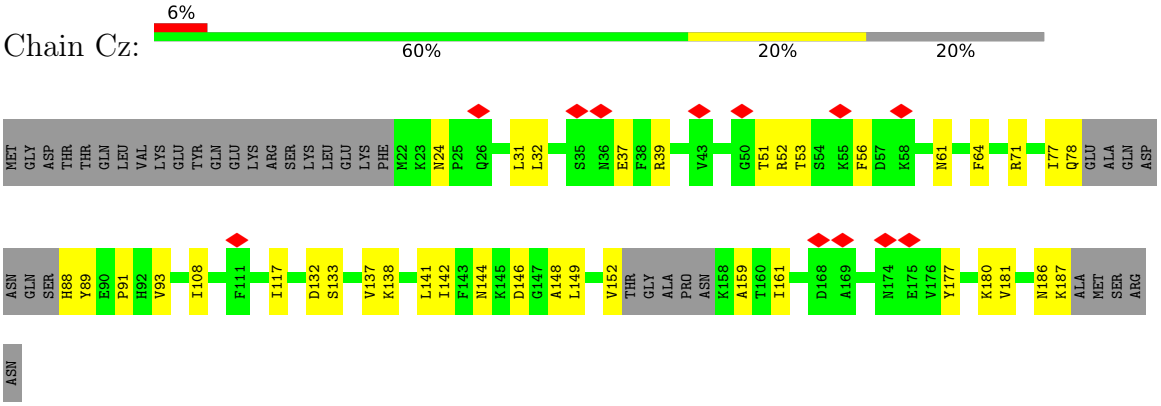
• Molecule 4: DUF228 domain-containing protein

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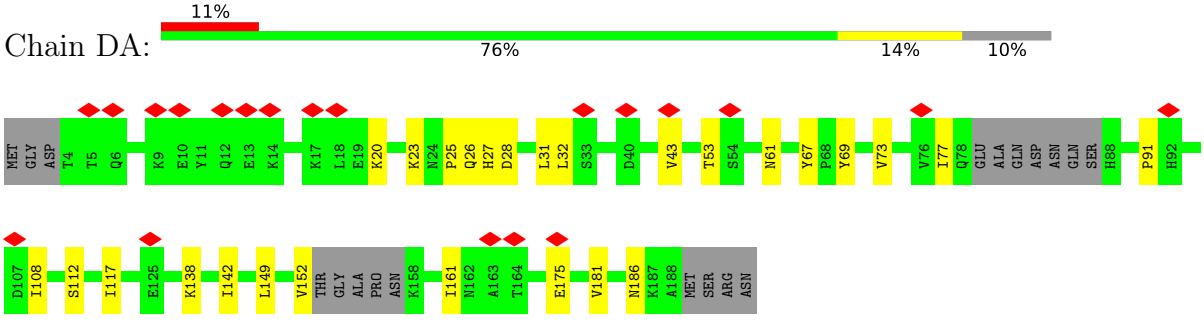
• Molecule 4: DUF228 domain-containing protein

Chain Cz:



• Molecule 4: DUF228 domain-containing protein

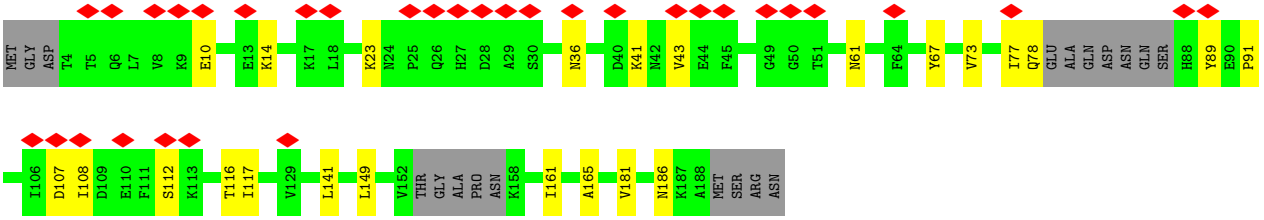
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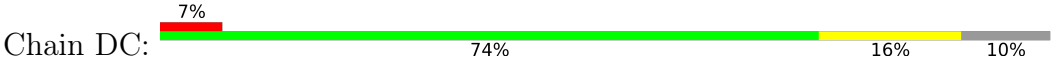
• Molecule 4: DUF228 domain-containing protein

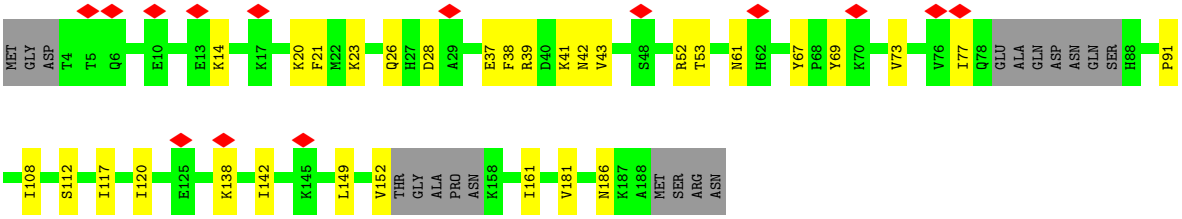
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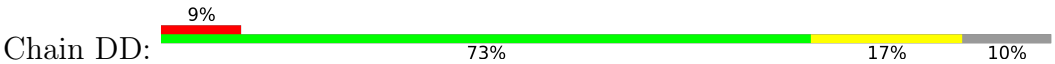


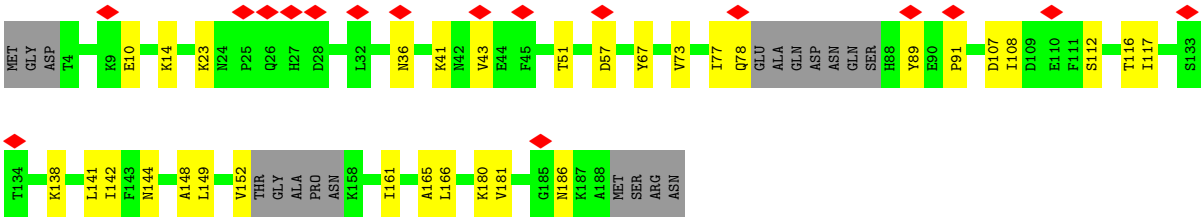
• Molecule 4: DUF228 domain-containing protein



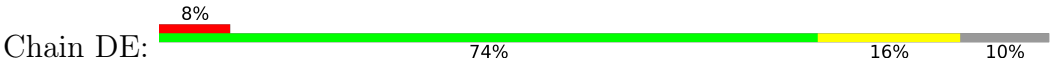


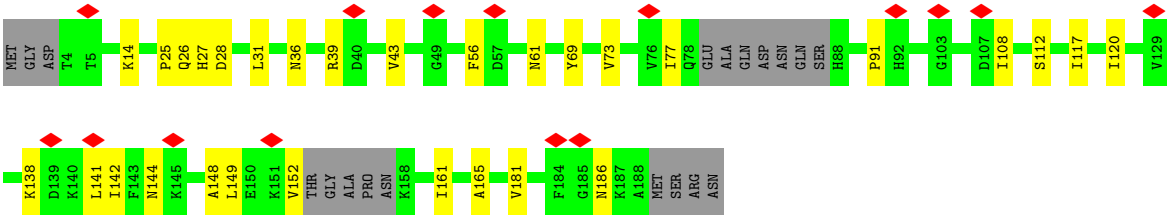
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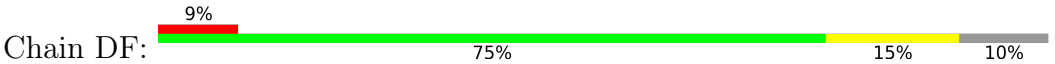


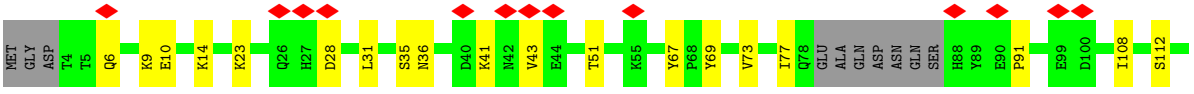
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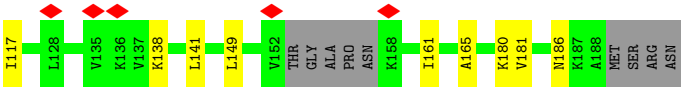




• Molecule 4: DUF228 domain-containing protein



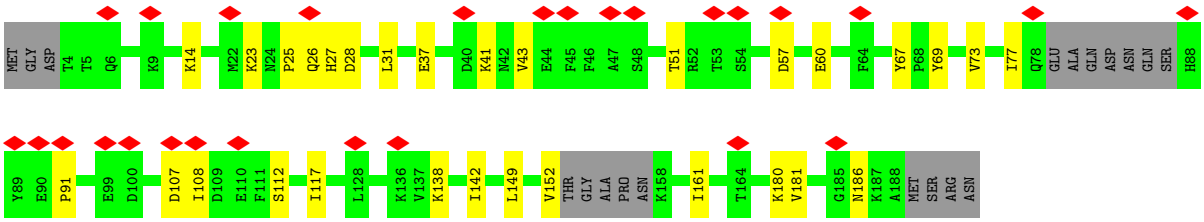




• Molecule 4: DUF228 domain-containing protein

Chain DG:

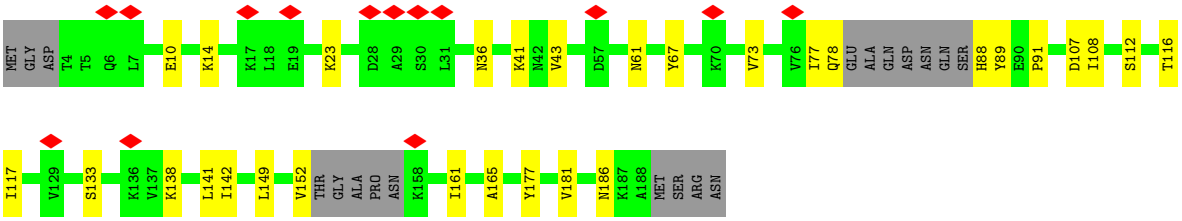




• Molecule 4: DUF228 domain-containing protein

Chain DH:

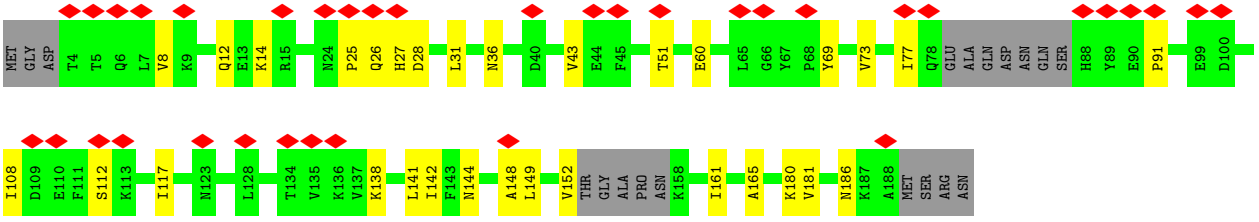




• Molecule 4: DUF228 domain-containing protein

Chain DI:

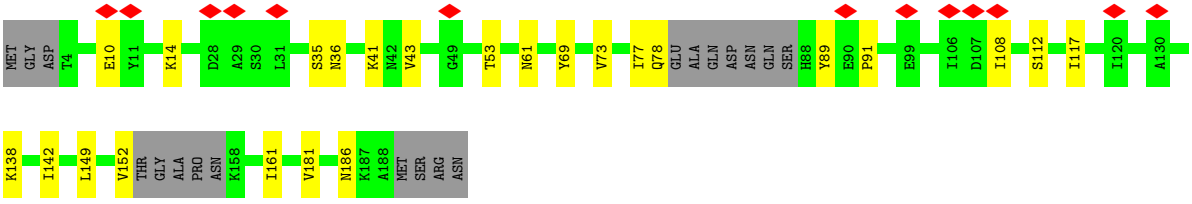




• Molecule 4: DUF228 domain-containing protein

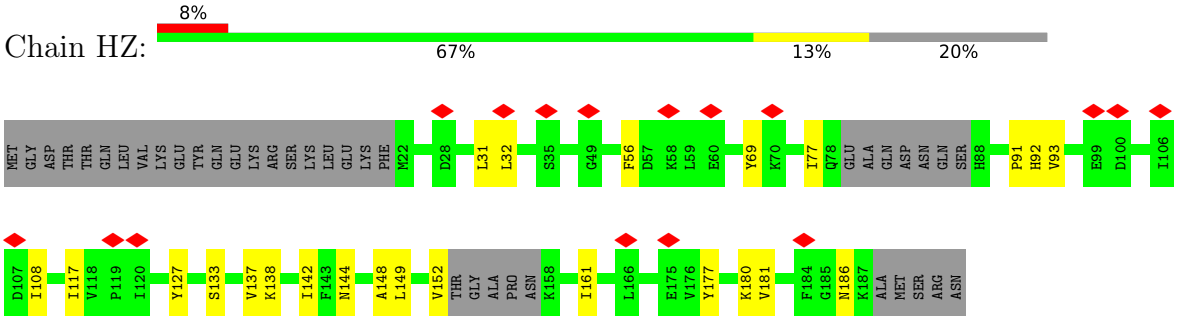
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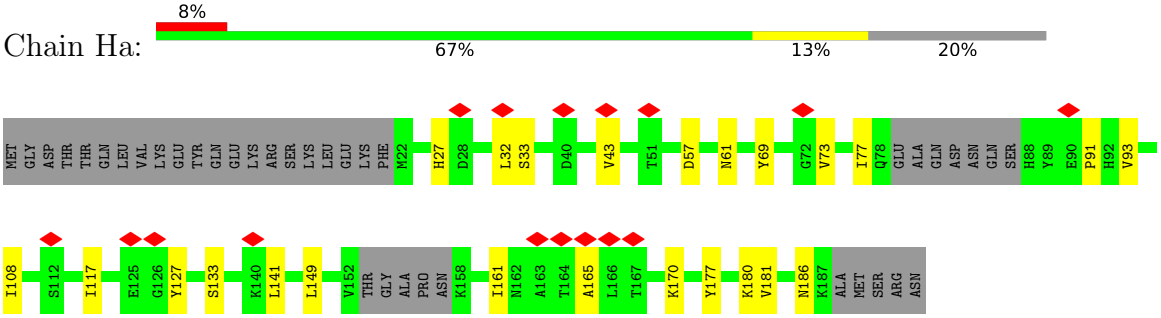
• Molecule 4: DUF228 domain-containing protein

Chain HZ:



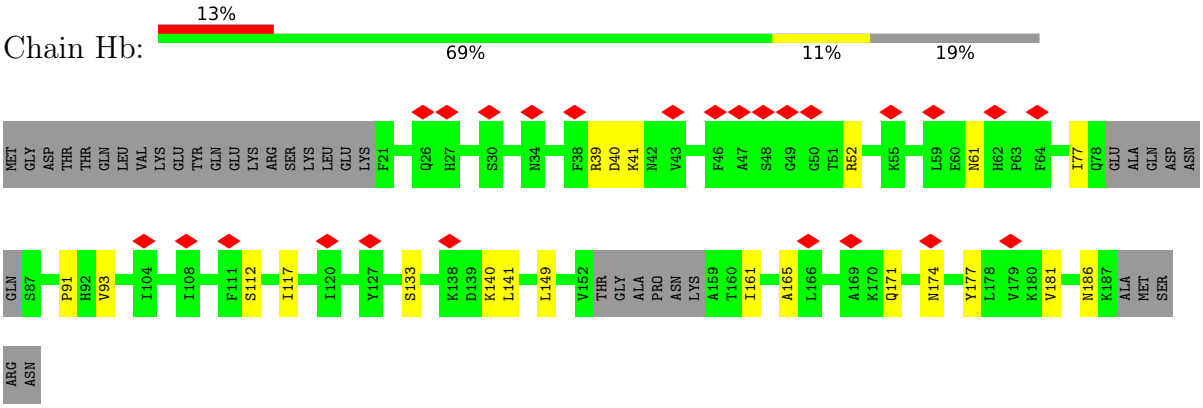
• Molecule 4: DUF228 domain-containing protein

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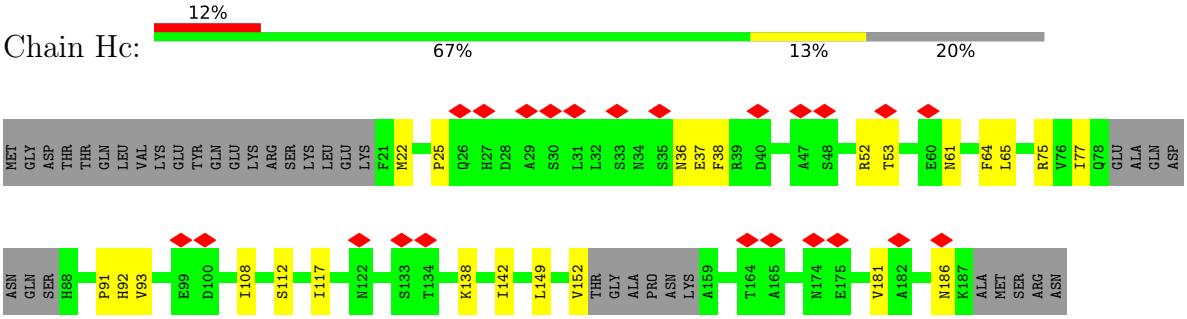
• Molecule 4: DUF228 domain-containing protein

Chain Hb:



• Molecule 4: DUF228 domain-containing protein

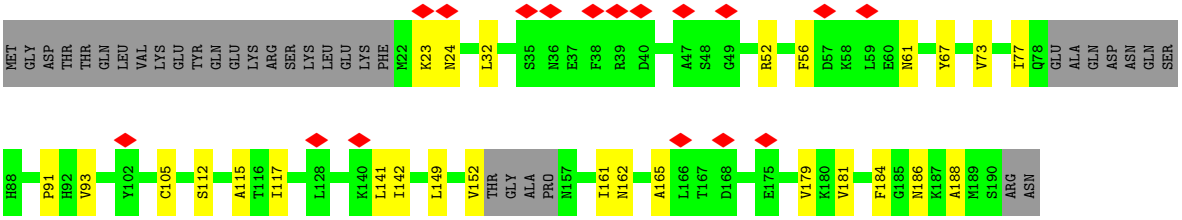
Chain Hc:



• Molecule 4: DUF228 domain-containing protein

Chain Hd:



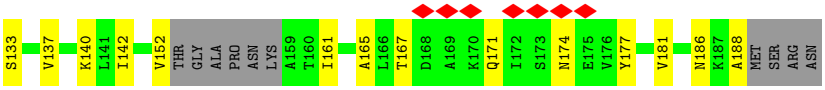


• Molecule 4: DUF228 domain-containing protein

Chain He:



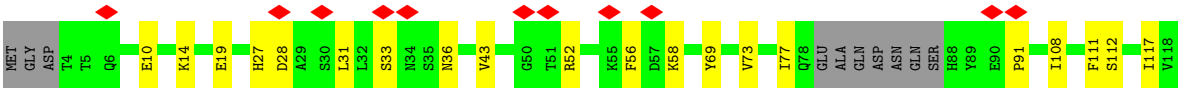


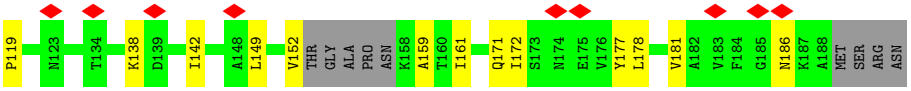


• Molecule 4: DUF228 domain-containing protein

Chain Hf:



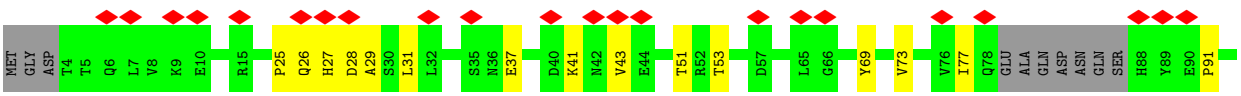


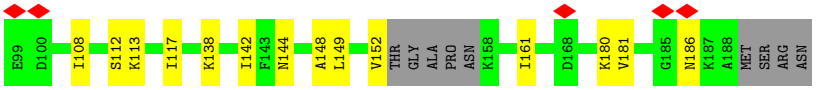


• Molecule 4: DUF228 domain-containing protein

Chain Hg:



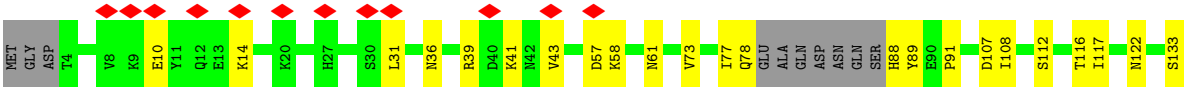


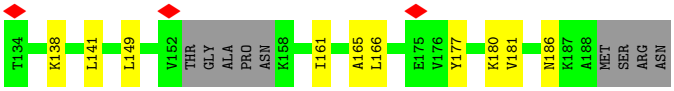


• Molecule 4: DUF228 domain-containing protein

Chain Hh:



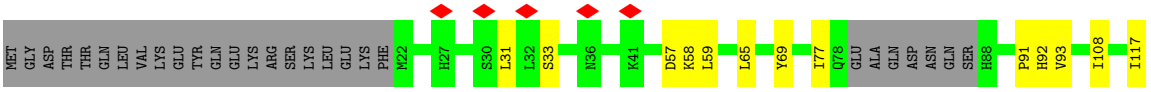


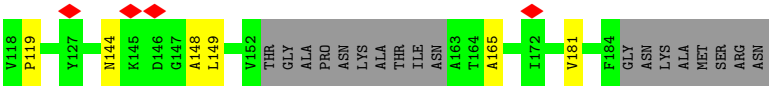


• Molecule 4: DUF228 domain-containing protein

Chain Hi:



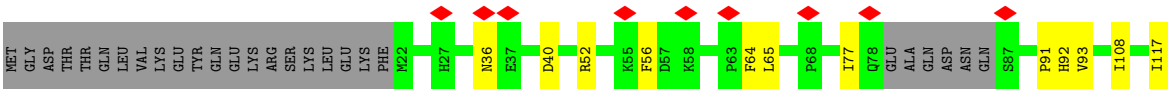


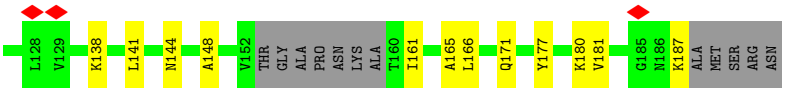


• Molecule 4: DUF228 domain-containing protein

Chain Hj:



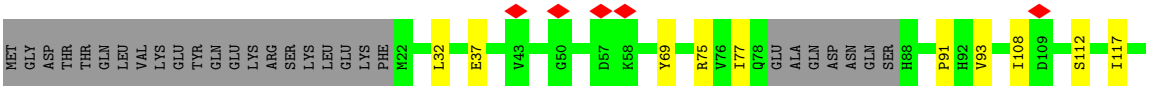


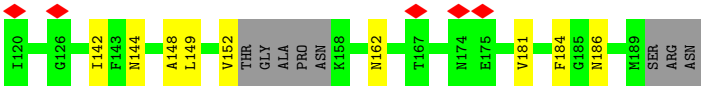


• Molecule 4: DUF228 domain-containing protein

Chain Hk:



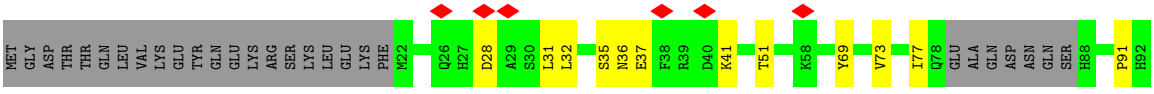


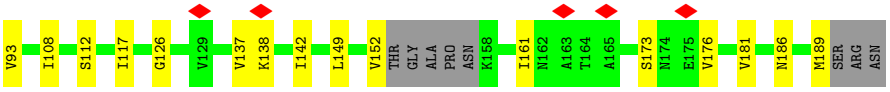


• Molecule 4: DUF228 domain-containing protein

Chain Hl:

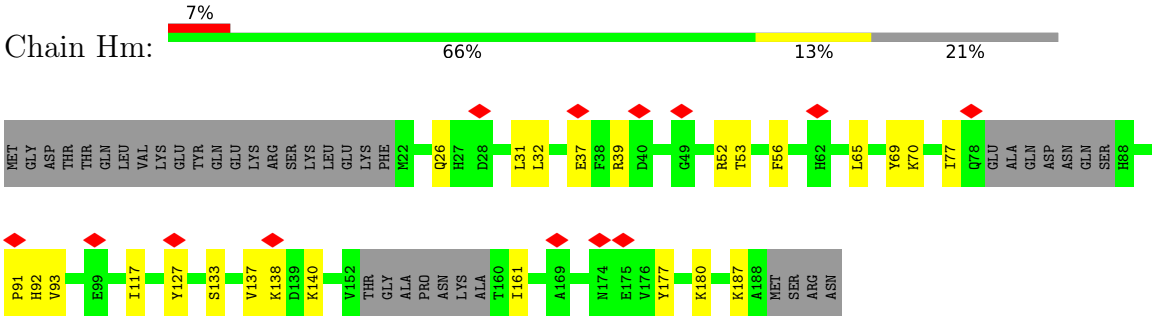






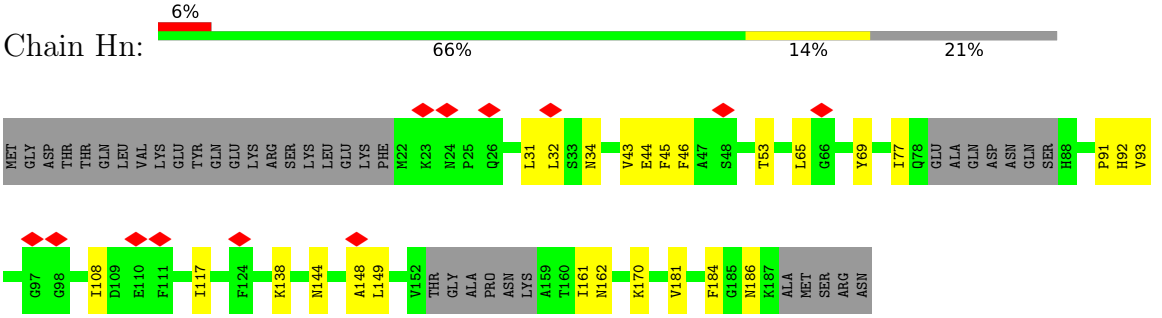
• Molecule 4: DUF228 domain-containing protein

Chain Hm:



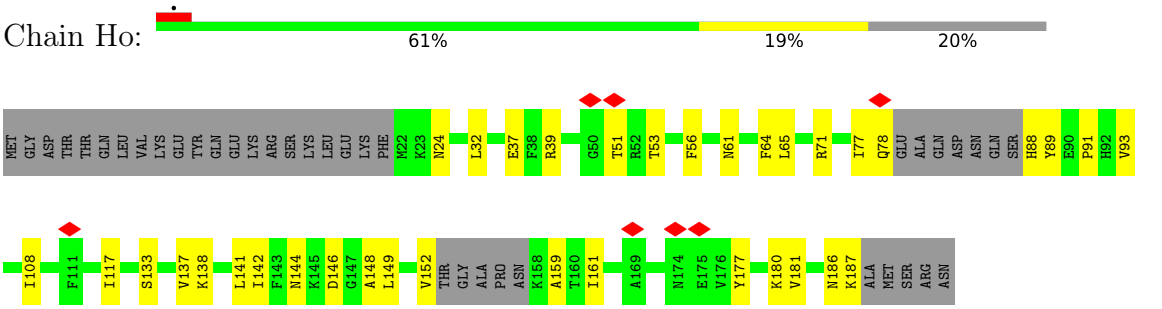
• Molecule 4: DUF228 domain-containing protein

Chain Hn:



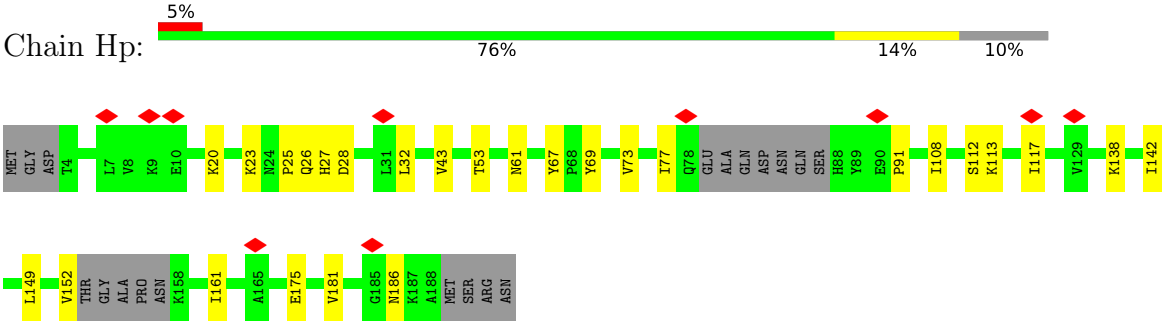
• Molecule 4: DUF228 domain-containing protein

Chain Ho:



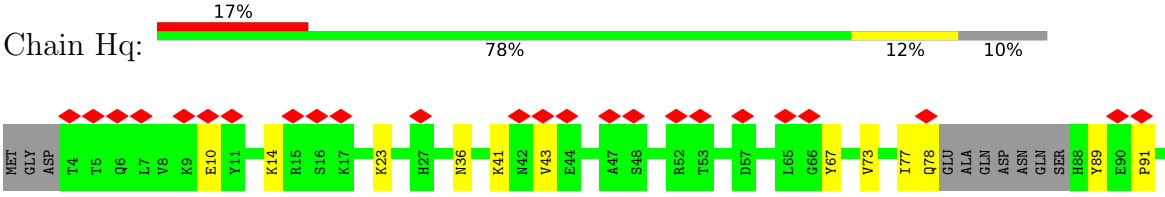
• Molecule 4: DUF228 domain-containing protein

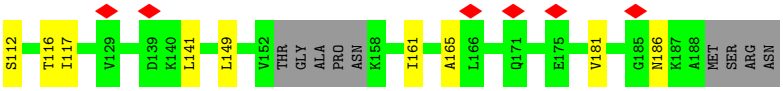
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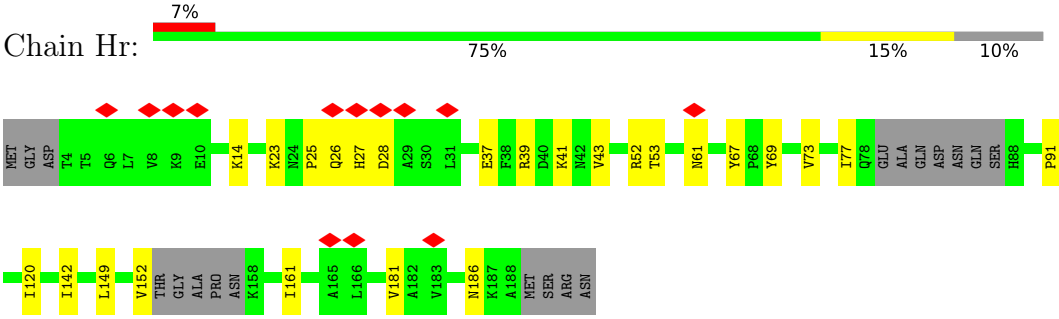
• Molecule 4: DUF228 domain-containing protein

Chain Hq:

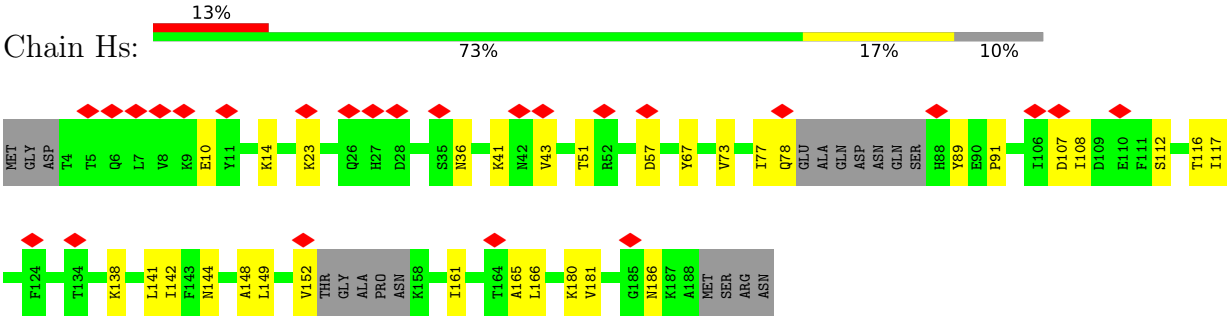




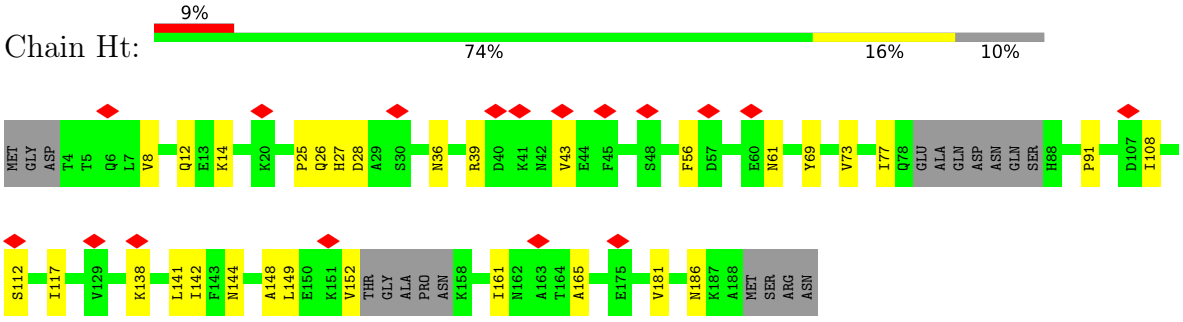
• Molecule 4: DUF228 domain-containing protein



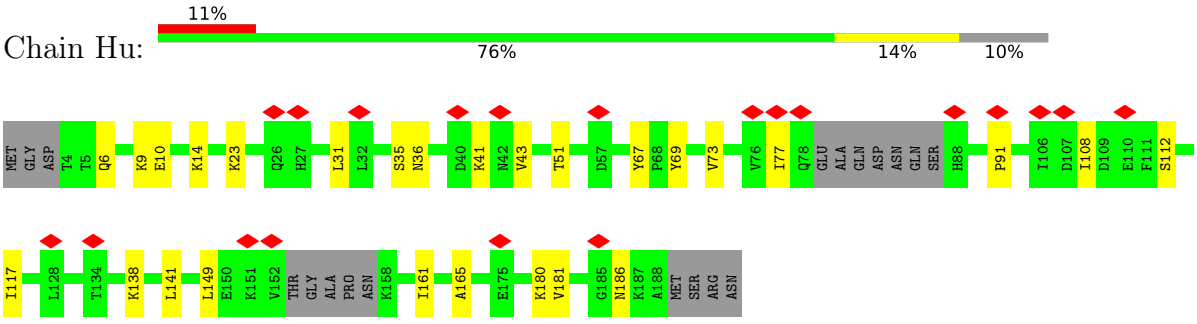
• Molecule 4: DUF228 domain-containing protein



• Molecule 4: DUF228 domain-containing protein

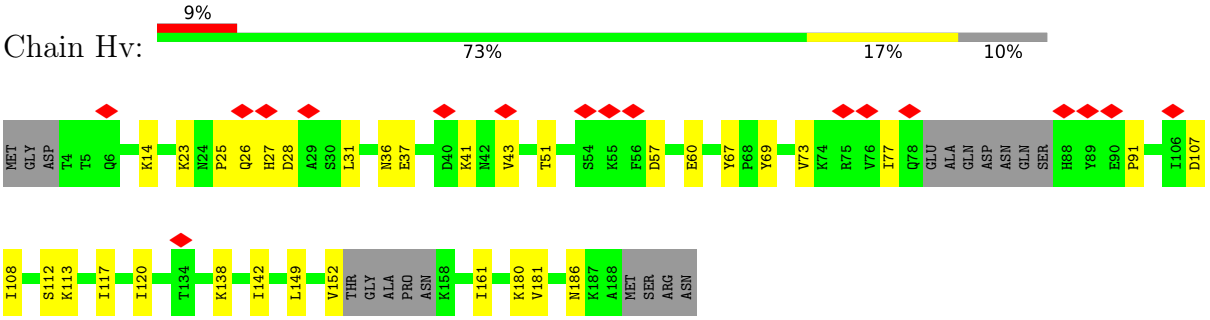


• Molecule 4: DUF228 domain-containing protein



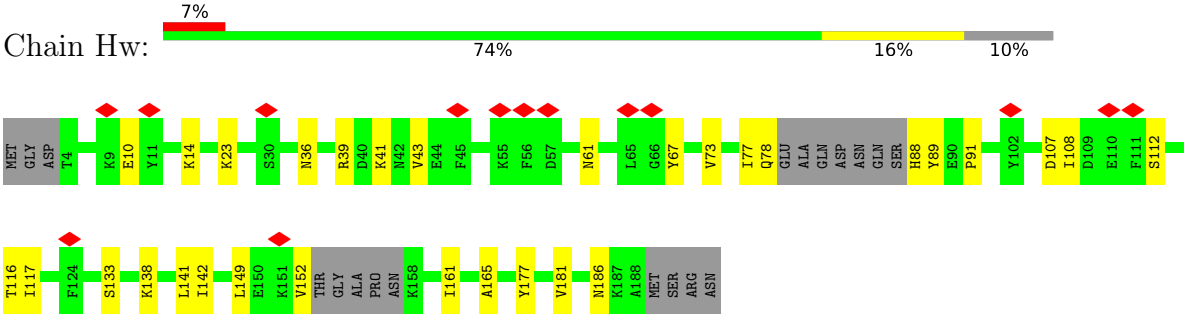
• Molecule 4: DUF228 domain-containing protein

Chain Hv:



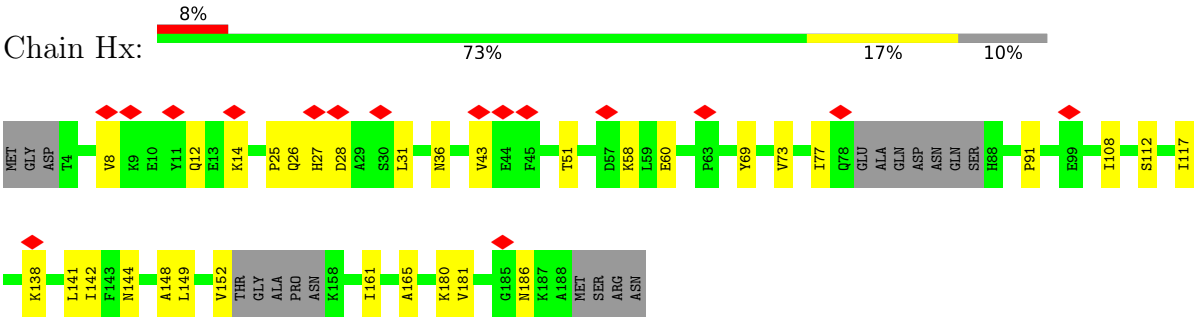
• Molecule 4: DUF228 domain-containing protein

Chain Hw:



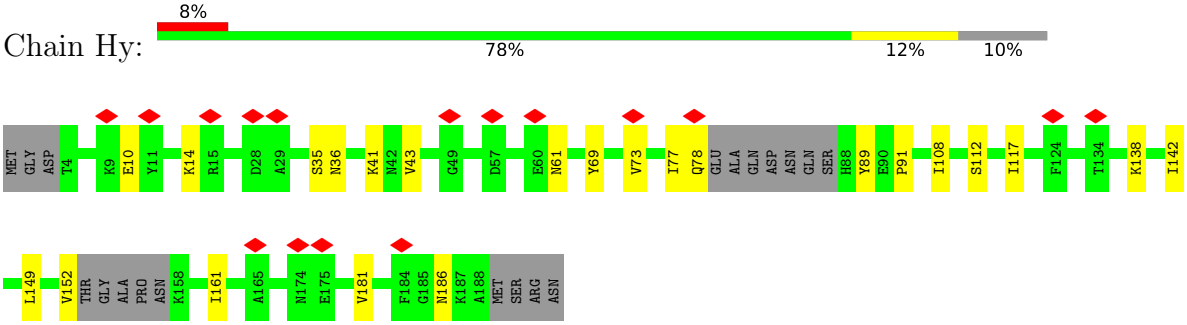
• Molecule 4: DUF228 domain-containing protein

Chain Hx:



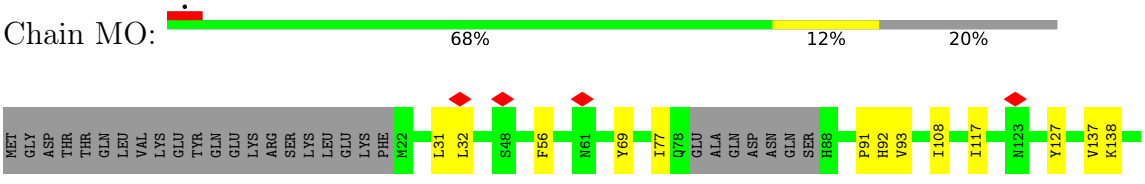
• Molecule 4: DUF228 domain-containing protein

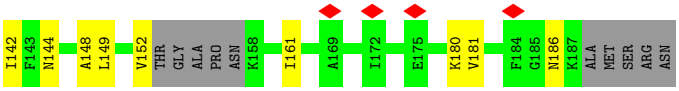
Chain Hy:



• Molecule 4: DUF228 domain-containing protein

Chain MO:

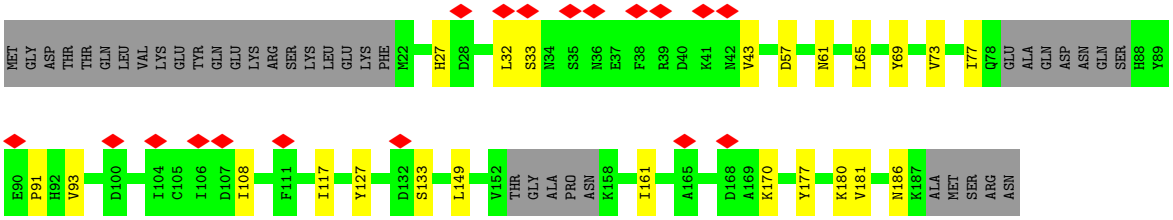




• Molecule 4: DUF228 domain-containing protein

Chain MP:

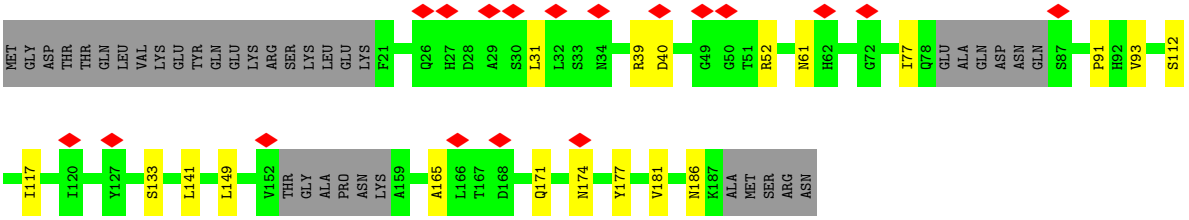




• Molecule 4: DUF228 domain-containing protein

Chain MQ:

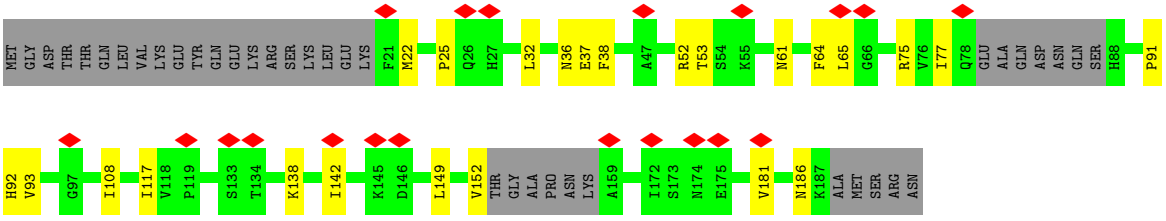




• Molecule 4: DUF228 domain-containing protein

Chain MR:

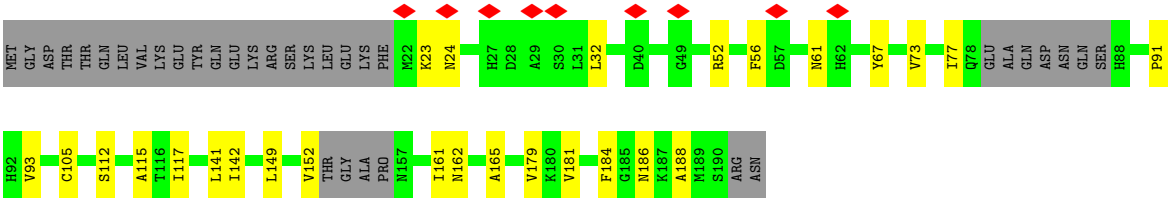




• Molecule 4: DUF228 domain-containing protein

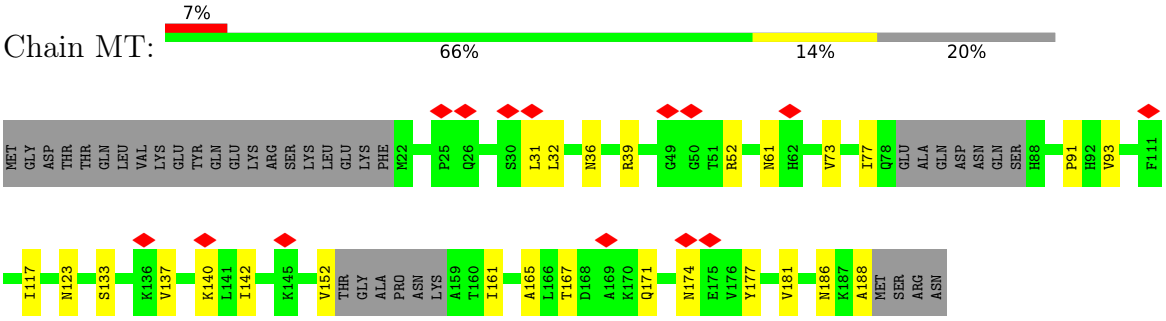
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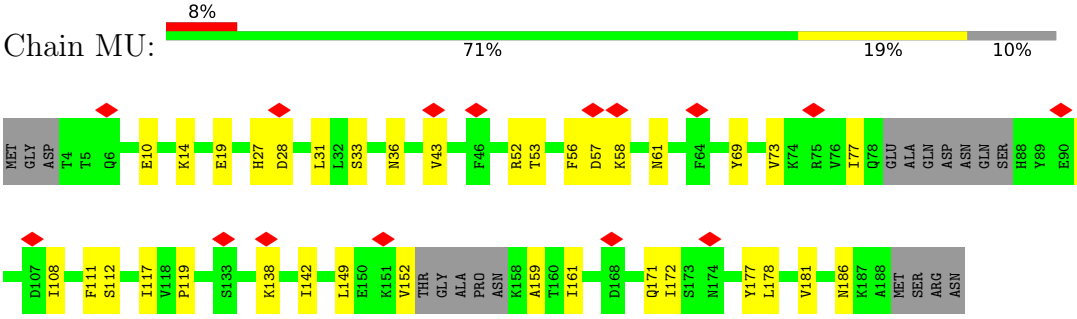
• Molecule 4: DUF228 domain-containing protein

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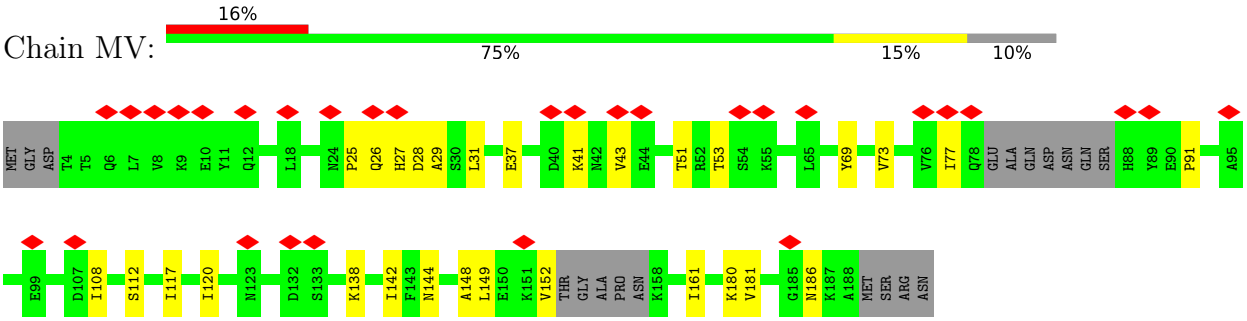
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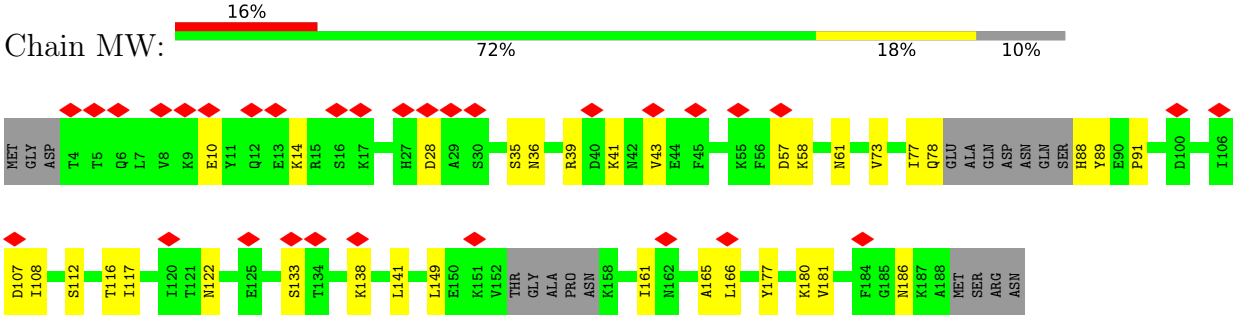
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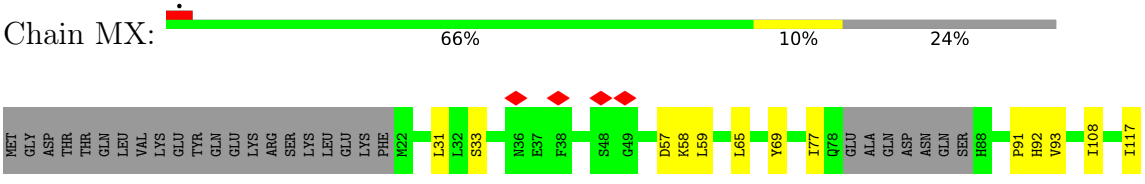
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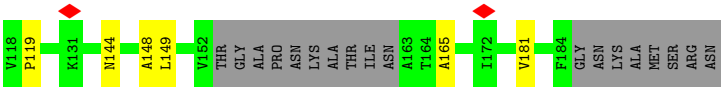
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• Molecule 4: DUF228 domain-containing protein

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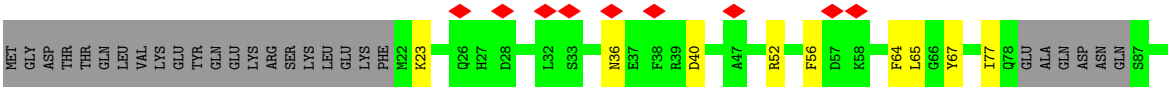


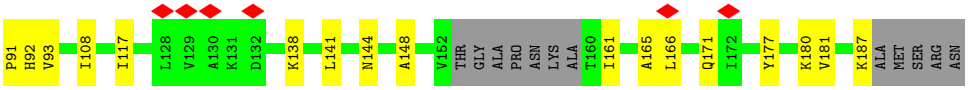


• Molecule 4: DUF228 domain-containing protein

Chain MY:



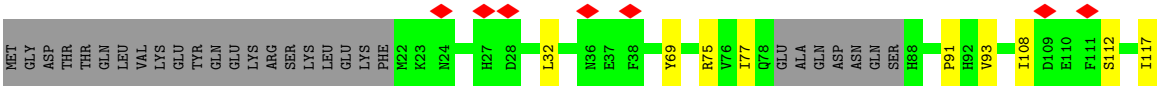


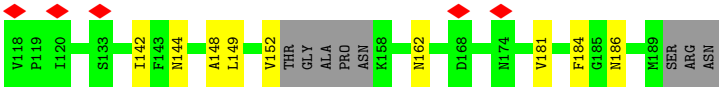


• Molecule 4: DUF228 domain-containing protein

Chain MZ:



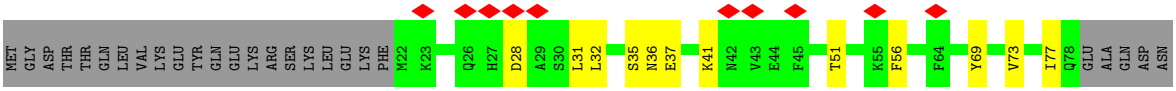


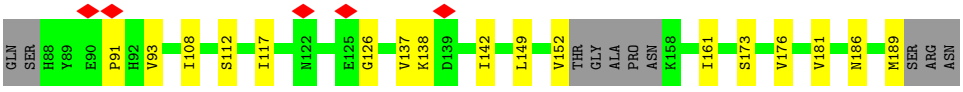


• Molecule 4: DUF228 domain-containing protein

Chain Ma:



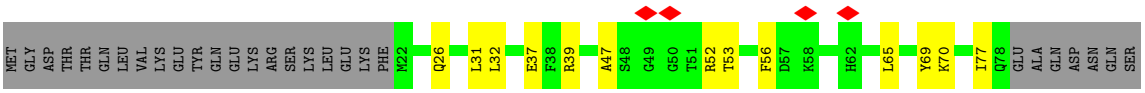


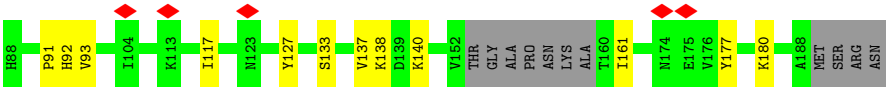


• Molecule 4: DUF228 domain-containing protein

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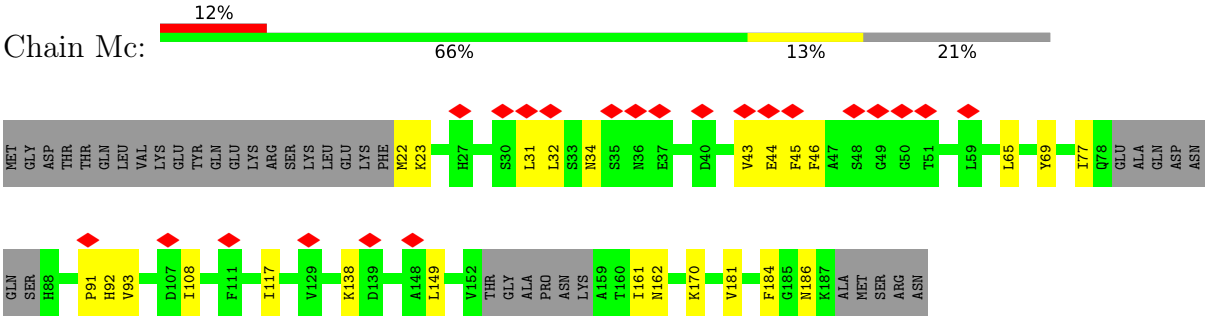






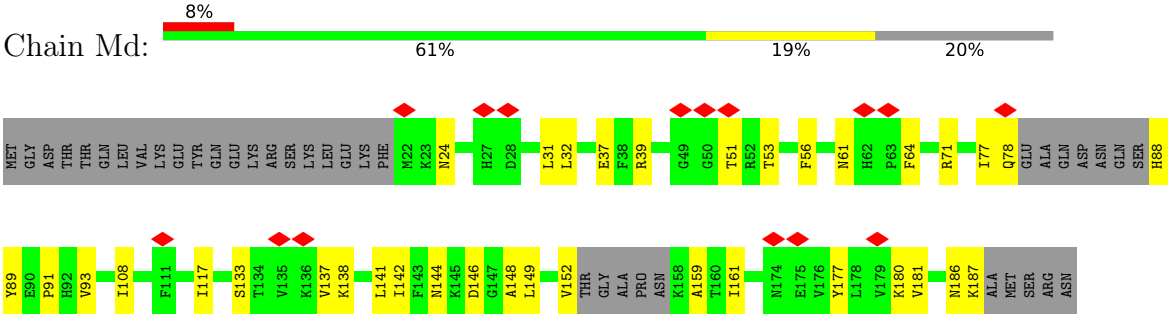
• Molecule 4: DUF228 domain-containing protein

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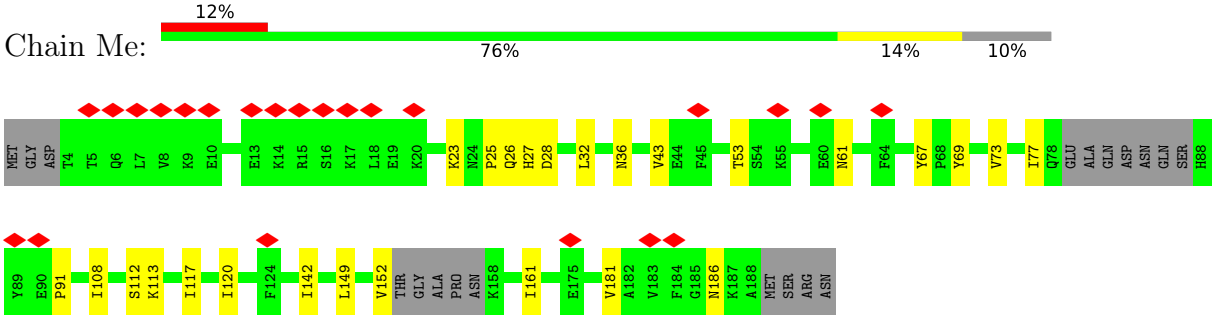
• Molecule 4: DUF228 domain-containing protein

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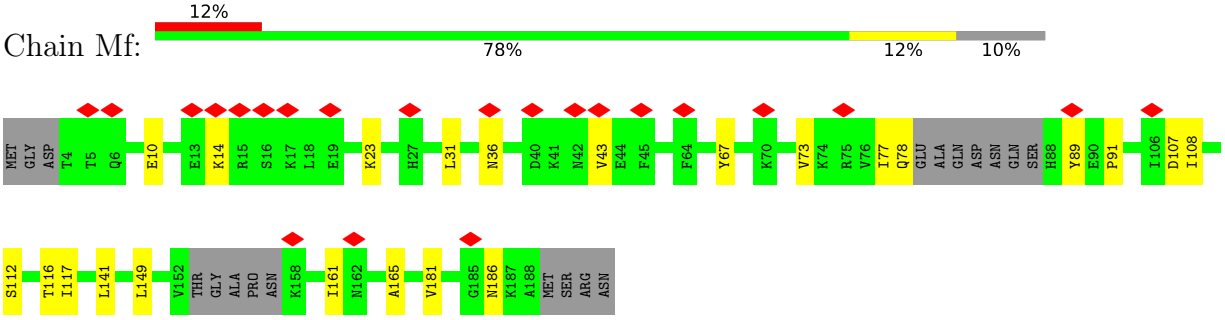
• Molecule 4: DUF228 domain-containing protein

Chain Me:



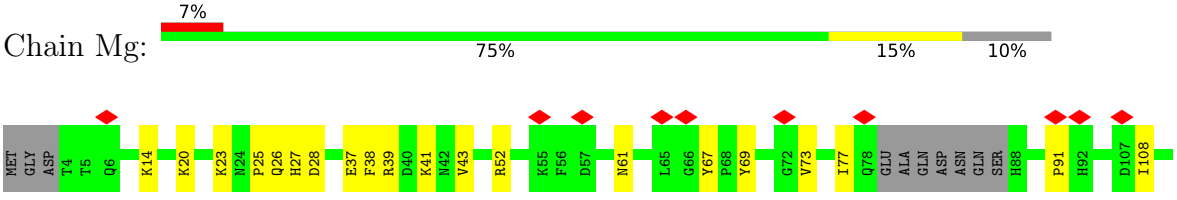
• Molecule 4: DUF228 domain-containing protein

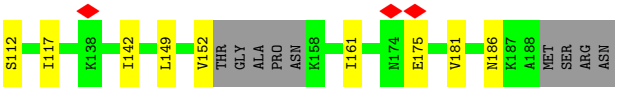
Chain Mf:



• Molecule 4: DUF228 domain-containing protein

Chain Mg:

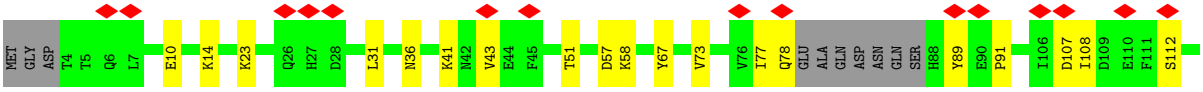


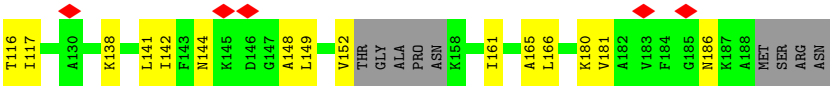


• Molecule 4: DUF228 domain-containing protein

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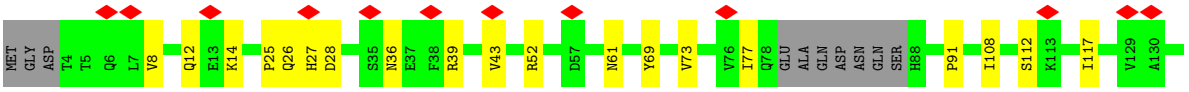


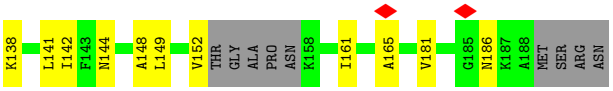


• Molecule 4: DUF228 domain-containing protein

Chain Mi:



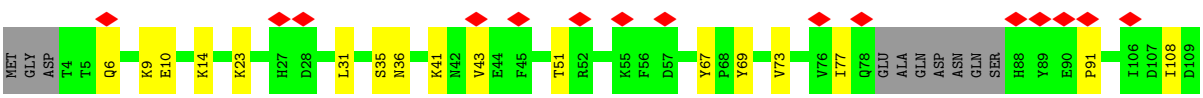


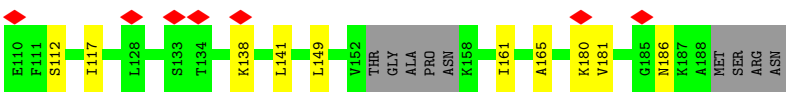


• Molecule 4: DUF228 domain-containing protein

Chain Mj:



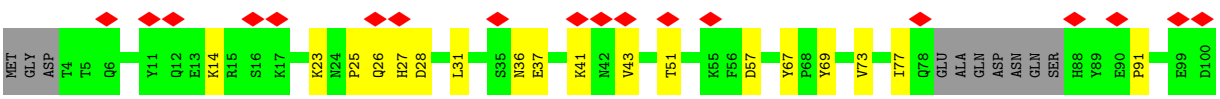


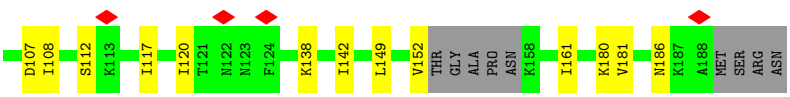


• Molecule 4: DUF228 domain-containing protein

Chain Mk:

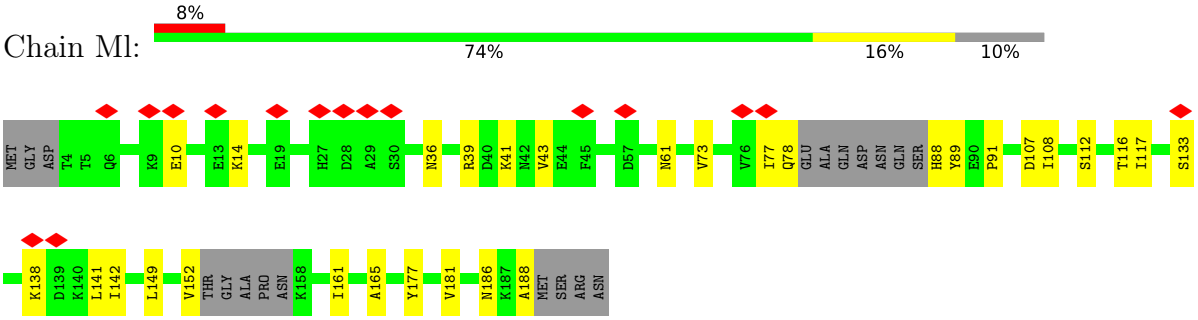






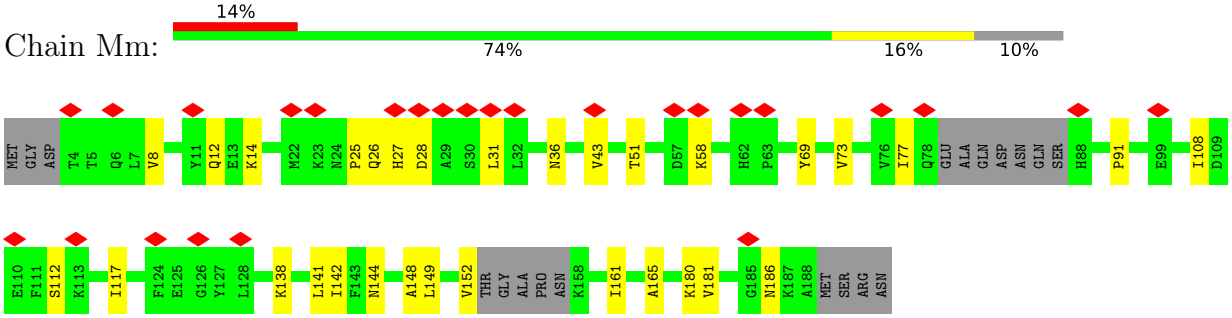
• Molecule 4: DUF228 domain-containing protein

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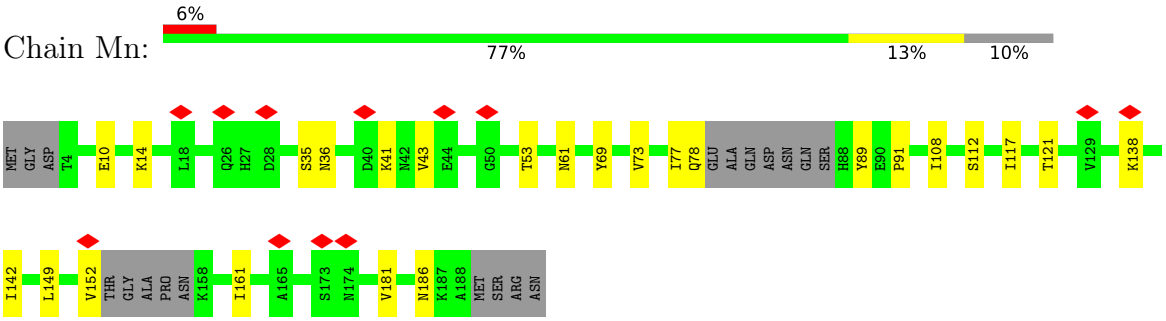
• Molecule 4: DUF228 domain-containing protein

Chain Mm:



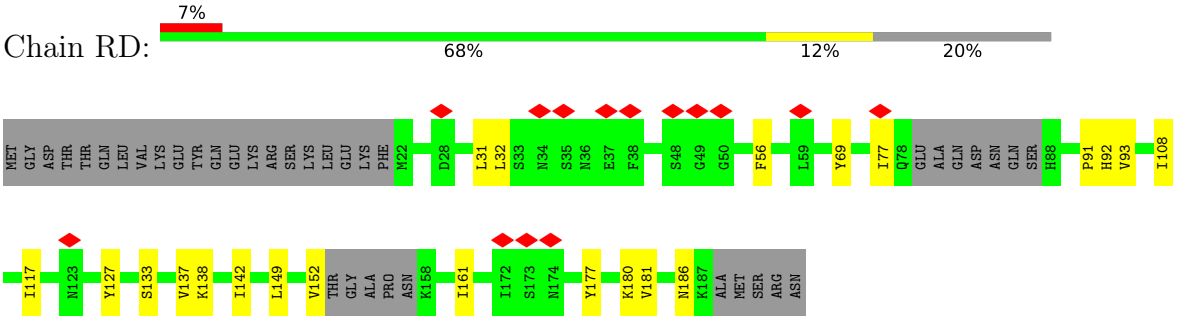
• Molecule 4: DUF228 domain-containing protein

Chain Mn:



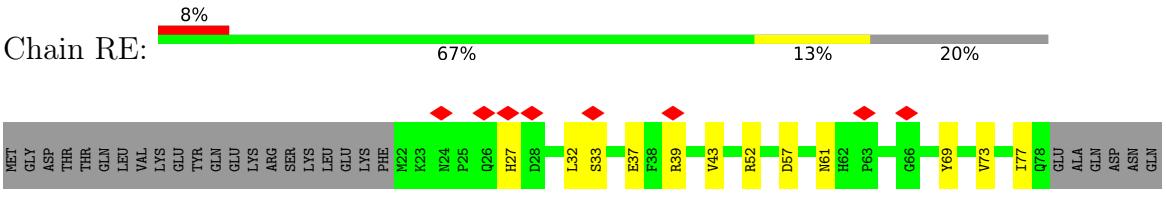
• Molecule 4: DUF228 domain-containing protein

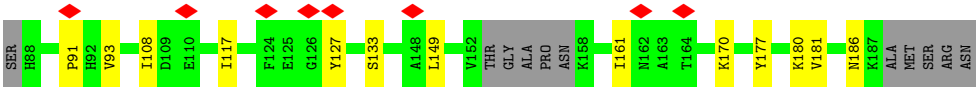
Chain RD:



• Molecule 4: DUF228 domain-containing protein

Chain RE:

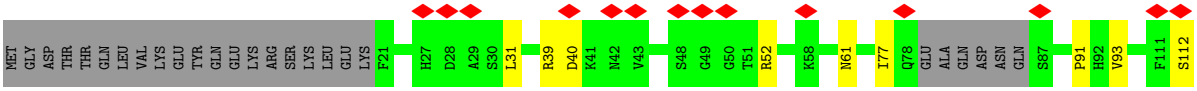


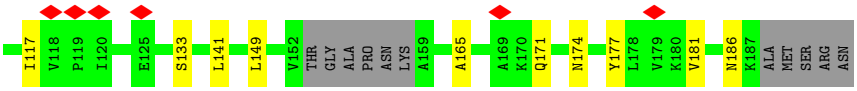


• Molecule 4: DUF228 domain-containing protein

Chain RF:



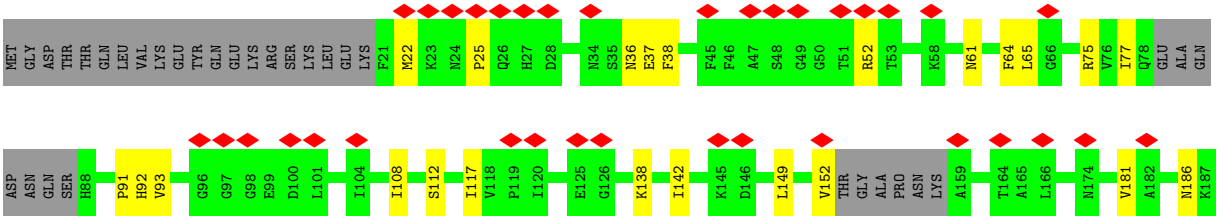




• Molecule 4: DUF228 domain-containing protein

Chain RG:

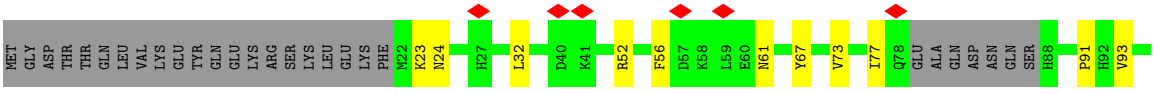


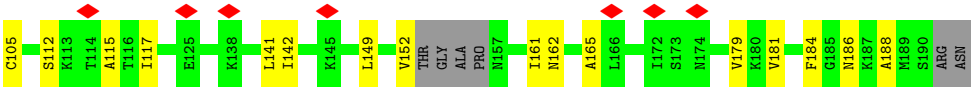


• Molecule 4: DUF228 domain-containing protein

Chain RH:



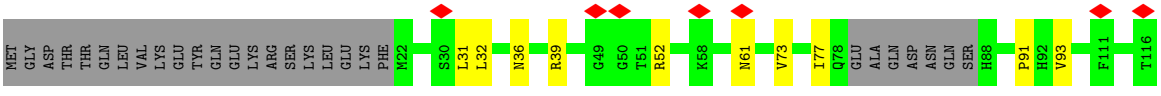


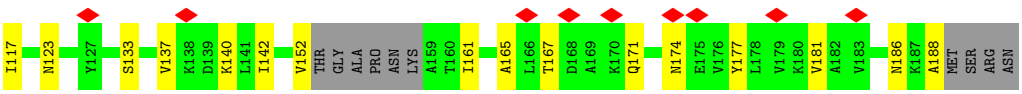


• Molecule 4: DUF228 domain-containing protein

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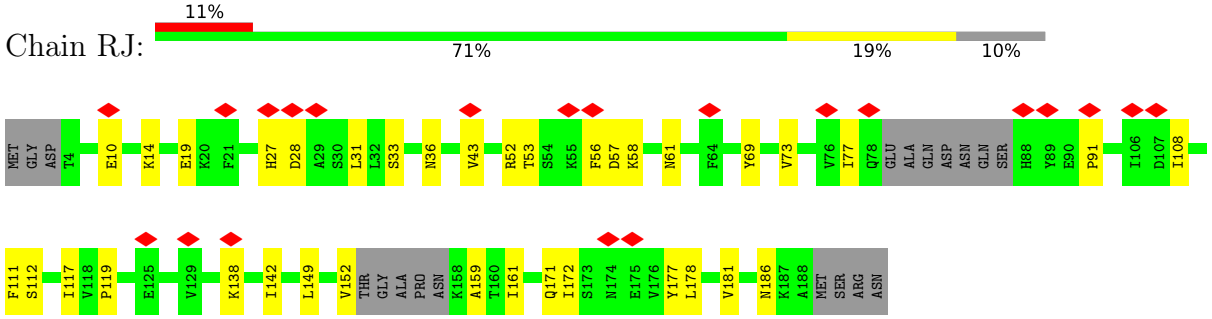






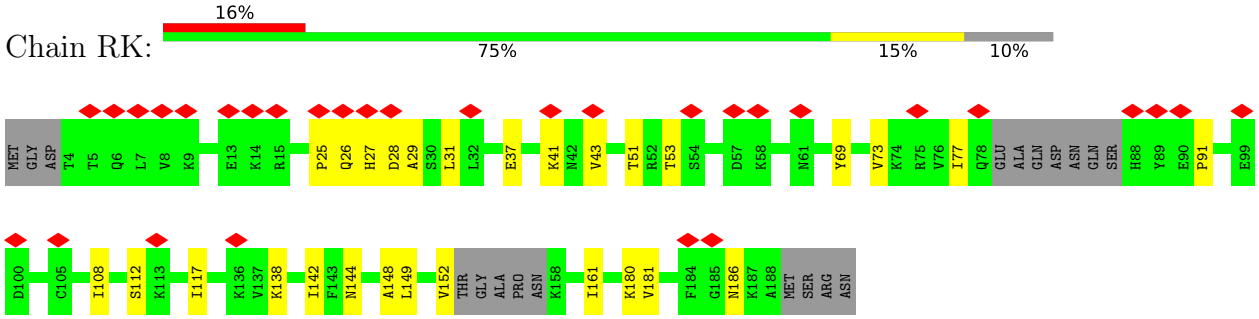
• Molecule 4: DUF228 domain-containing protein

Chain RJ:



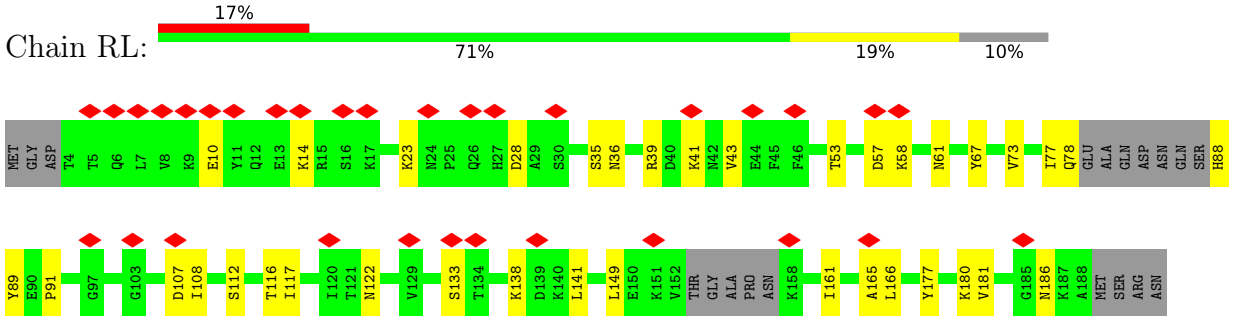
• Molecule 4: DUF228 domain-containing protein

Chain RK:



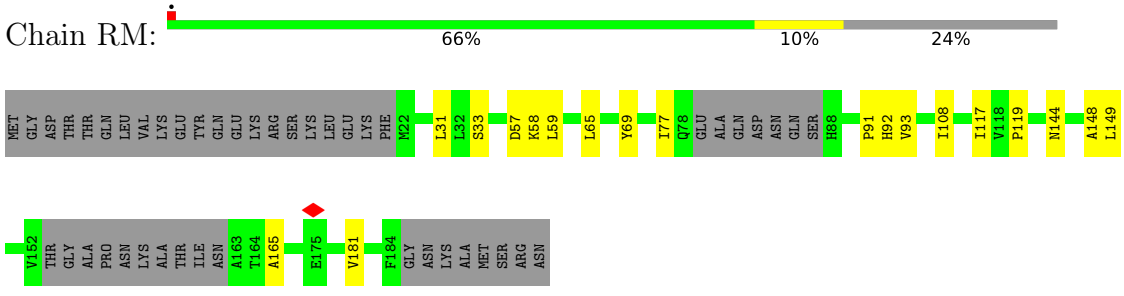
• Molecule 4: DUF228 domain-containing protein

Chain RL:



• Molecule 4: DUF228 domain-containing protein

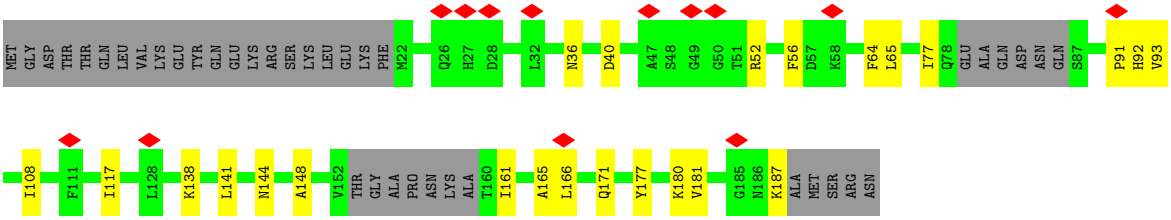
Chain RM:



• Molecule 4: DUF228 domain-containing protein

Chain RN:

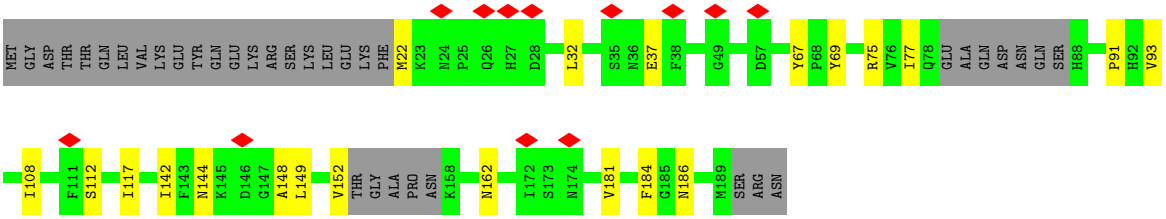




• Molecule 4: DUF228 domain-containing protein

Chain RO:

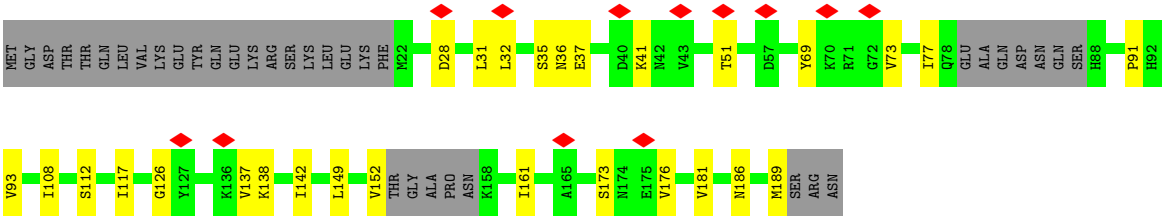




• Molecule 4: DUF228 domain-containing protein

Chain RP:

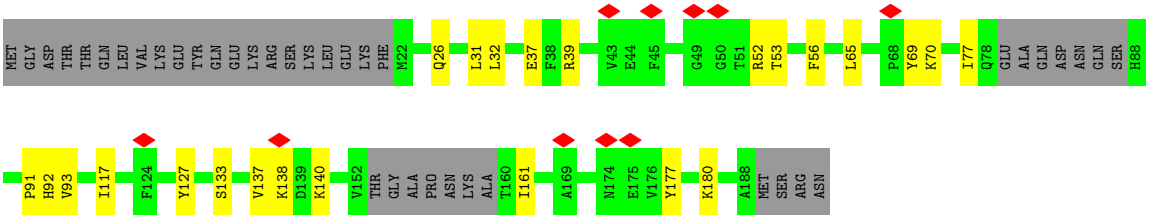




• Molecule 4: DUF228 domain-containing protein

Chain RQ:

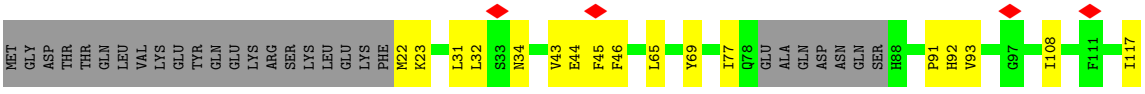


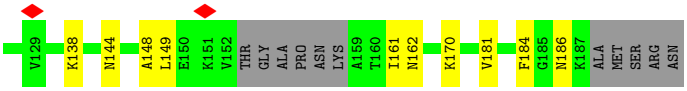


• Molecule 4: DUF228 domain-containing protein

Chain RR:



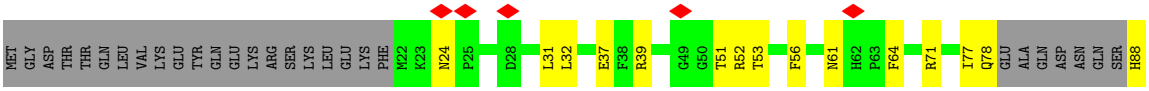


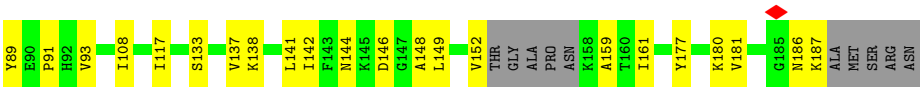


• Molecule 4: DUF228 domain-containing protein

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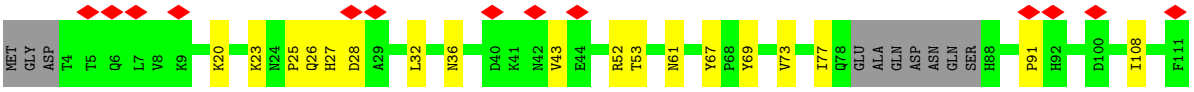


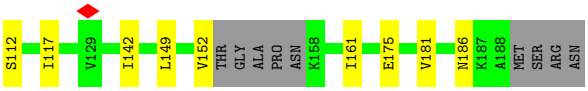


• Molecule 4: DUF228 domain-containing protein

Chain RT:



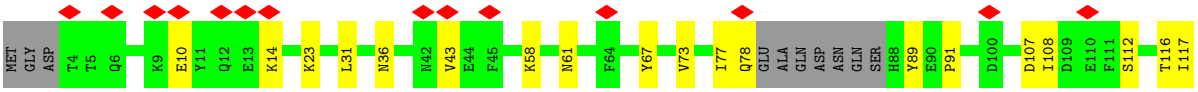


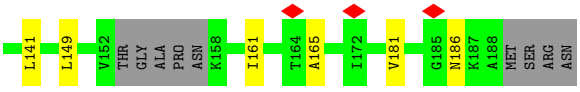


• Molecule 4: DUF228 domain-containing protein

Chain RU:



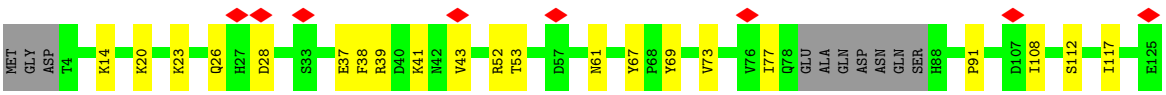


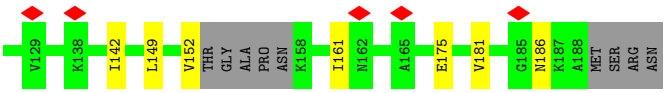


• Molecule 4: DUF228 domain-containing protein

Chain RV:

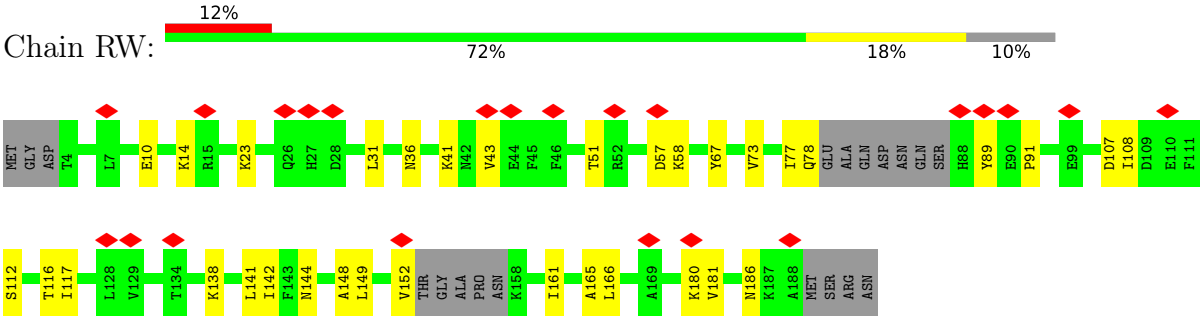






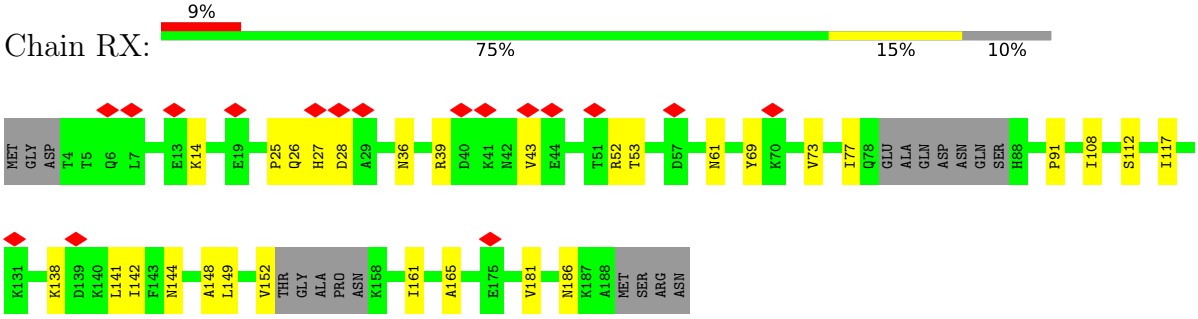
• Molecule 4: DUF228 domain-containing protein

Chain RW:



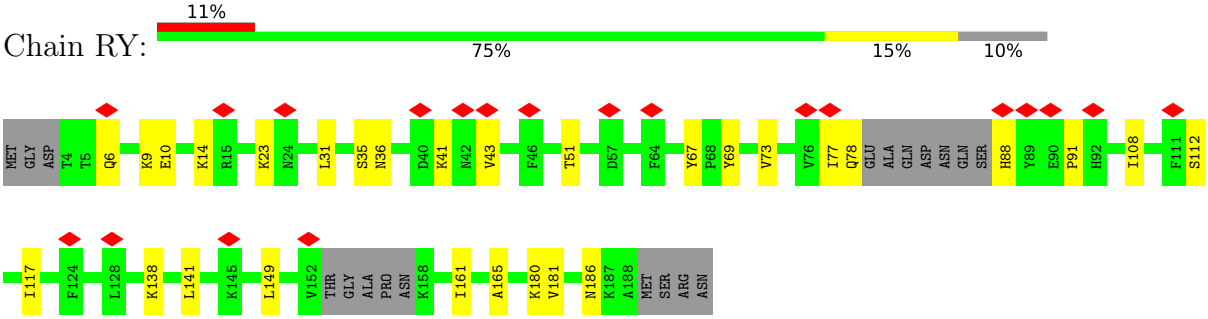
• Molecule 4: DUF228 domain-containing protein

Chain RX:



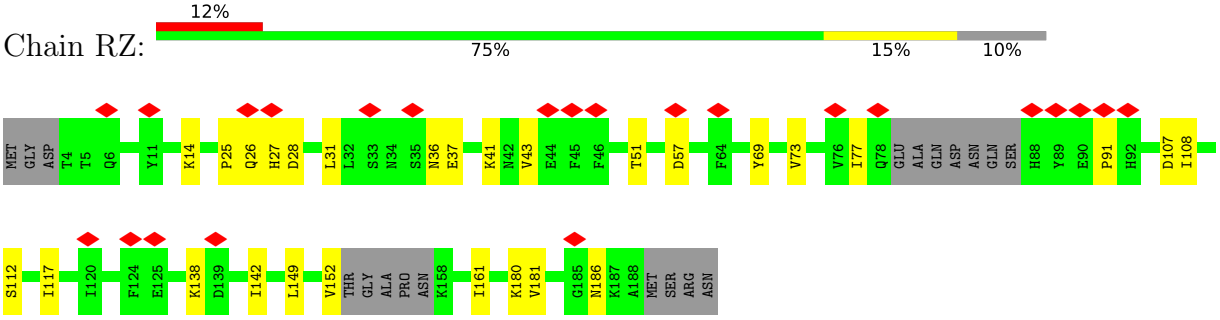
• Molecule 4: DUF228 domain-containing protein

Chain RY:



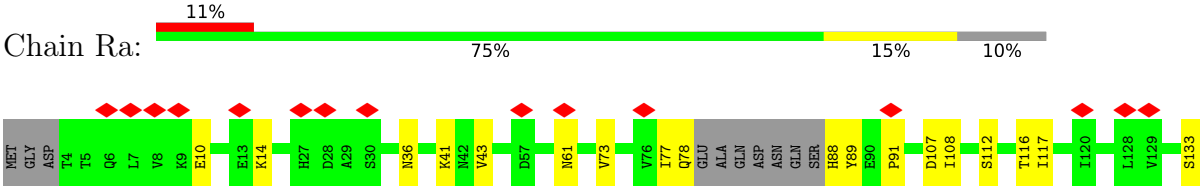
• Molecule 4: DUF228 domain-containing protein

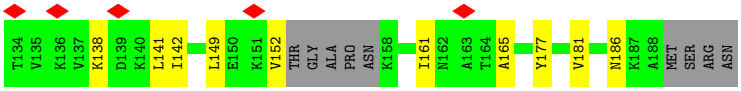
Chain RZ:



• Molecule 4: DUF228 domain-containing protein

Chain Ra:

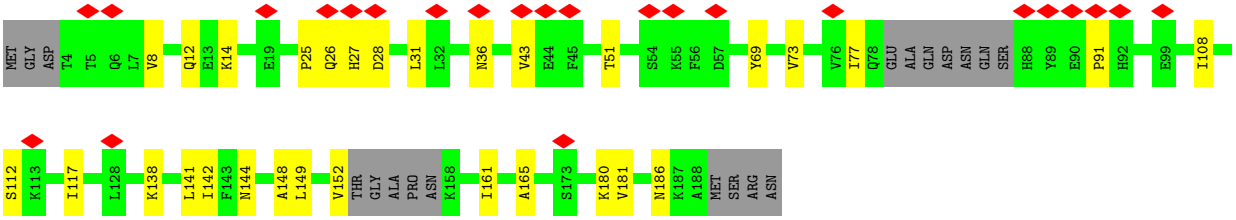




• Molecule 4: DUF228 domain-containing protein

Chain Rb:

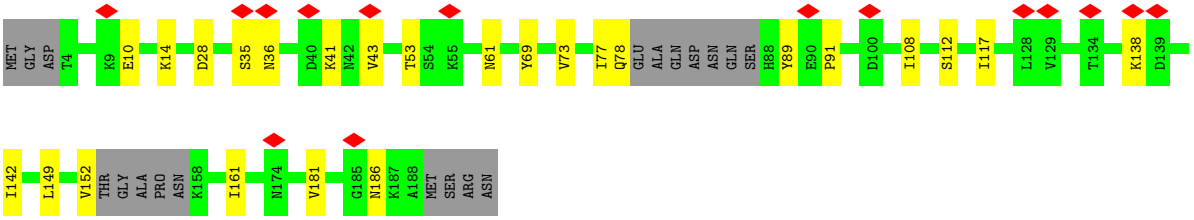




• Molecule 4: DUF228 domain-containing protein

Chain Rc:

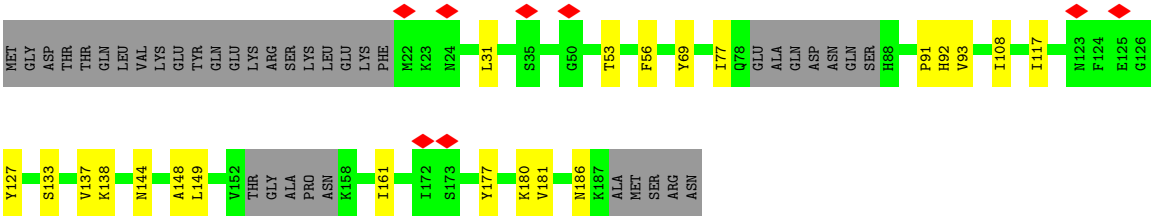




• Molecule 4: DUF228 domain-containing protein

Chain Vs:

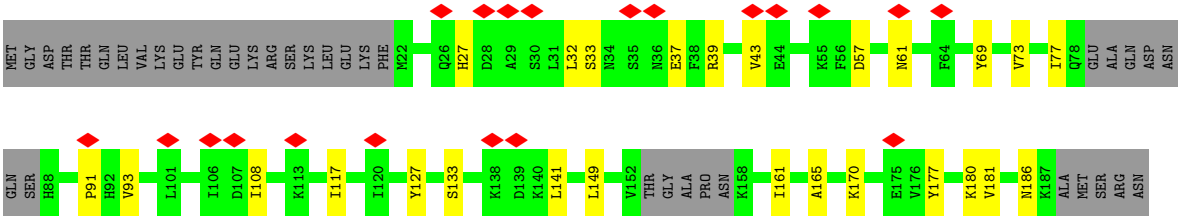




• Molecule 4: DUF228 domain-containing protein

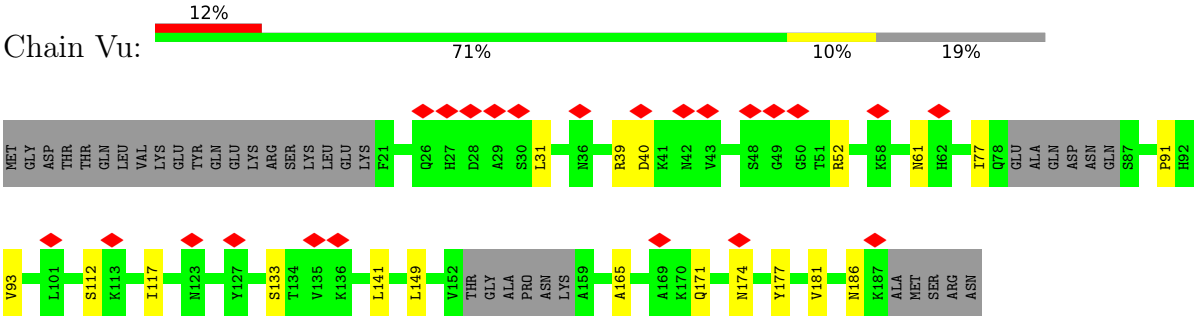
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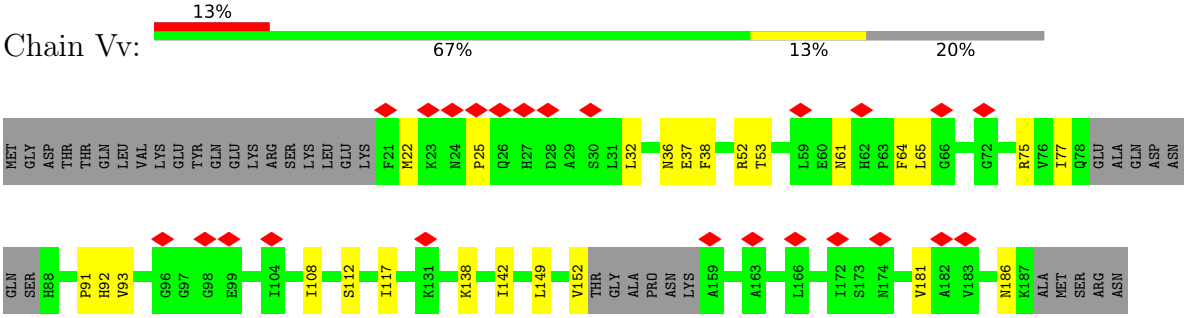
• Molecule 4: DUF228 domain-containing protein

Chain Vu:



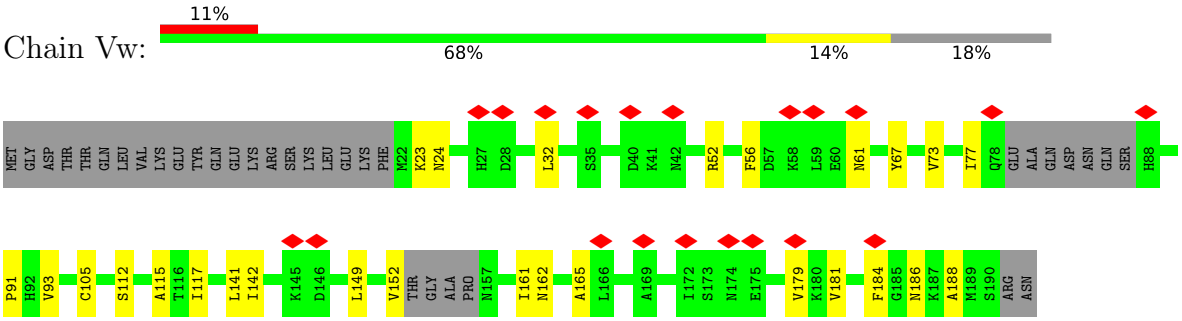
• Molecule 4: DUF228 domain-containing protein

Chain Vv:



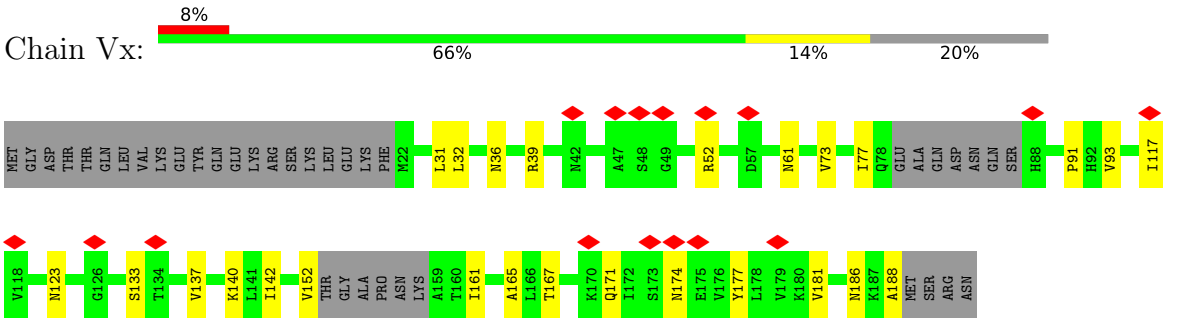
• Molecule 4: DUF228 domain-containing protein

Chain Vw:



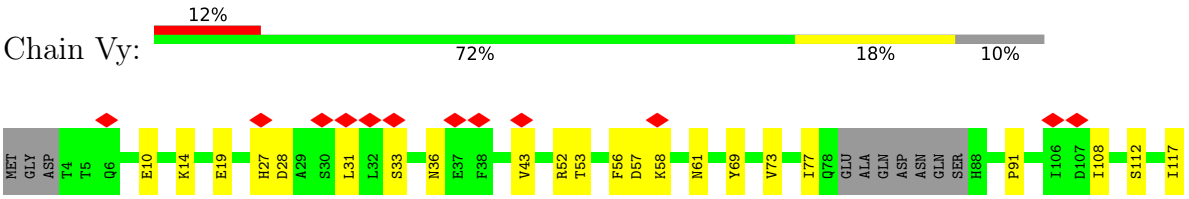
• Molecule 4: DUF228 domain-containing protein

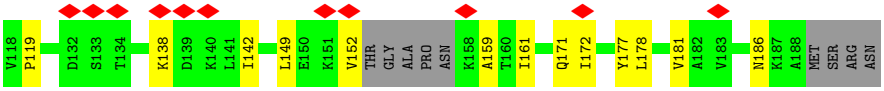
Chain Vx:



• Molecule 4: DUF228 domain-containing protein

Chain Vy:

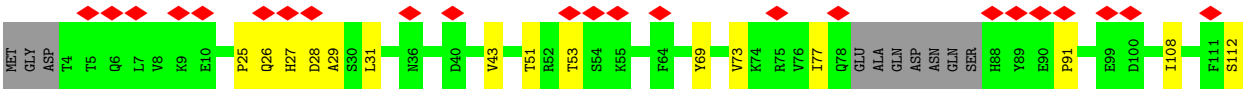


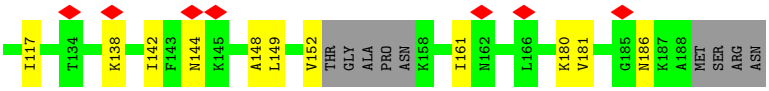


• Molecule 4: DUF228 domain-containing protein

Chain Vz:



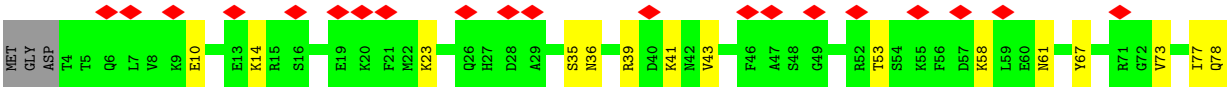


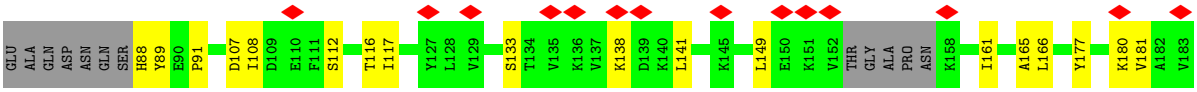


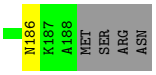
• Molecule 4: DUF228 domain-containing protein

Chain WA:





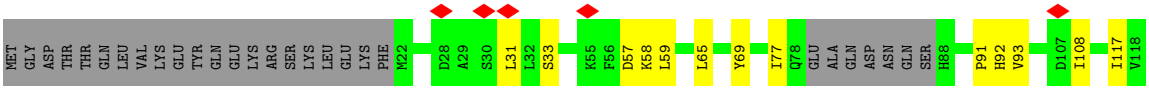


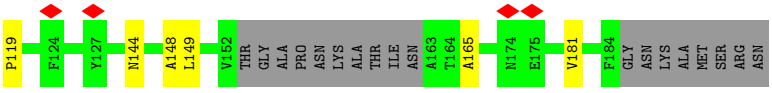


• Molecule 4: DUF228 domain-containing protein

Chain WB:



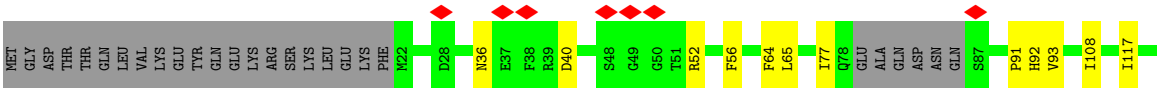




• Molecule 4: DUF228 domain-containing protein

Chain WC:



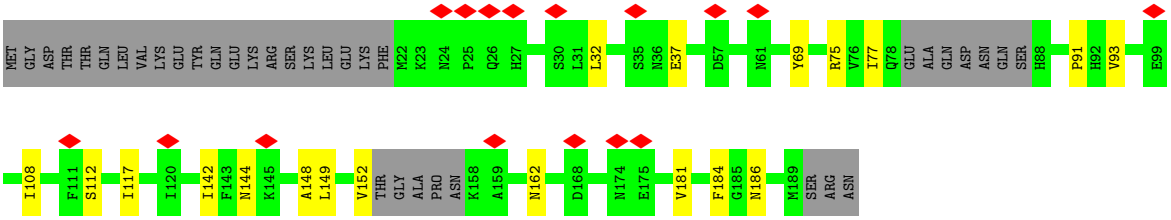




• Molecule 4: DUF228 domain-containing protein

Chain WD:

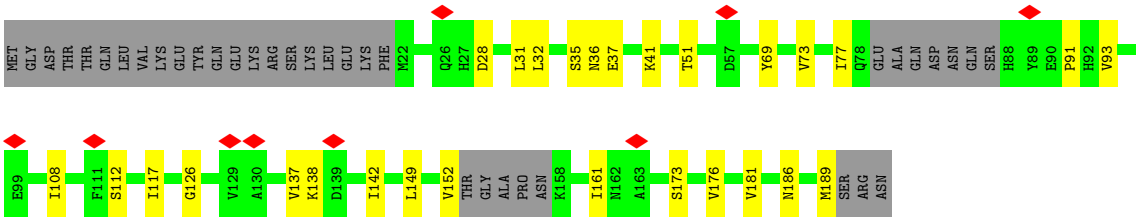




• Molecule 4: DUF228 domain-containing protein

Chain WE:

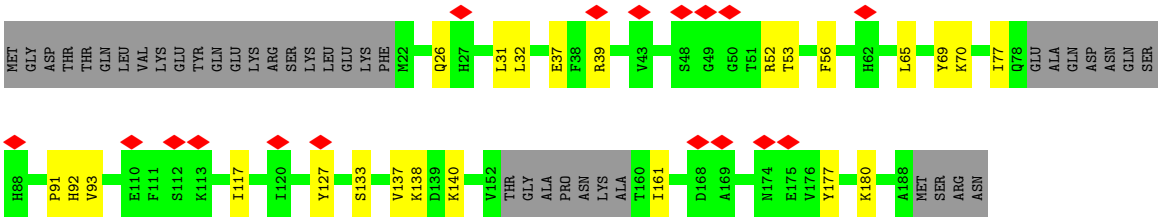




• Molecule 4: DUF228 domain-containing protein

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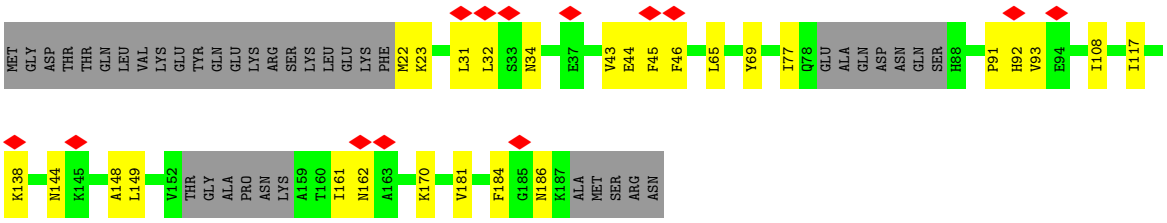




• Molecule 4: DUF228 domain-containing protein

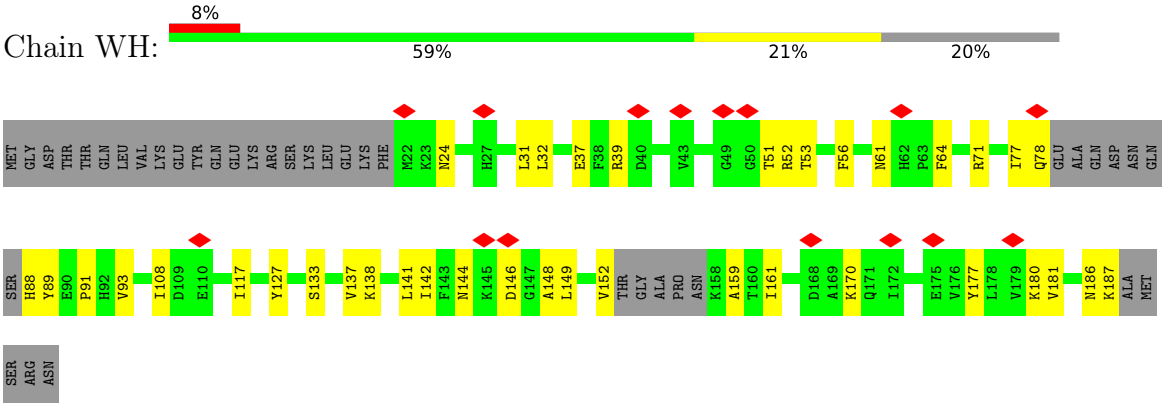
Chain WG:





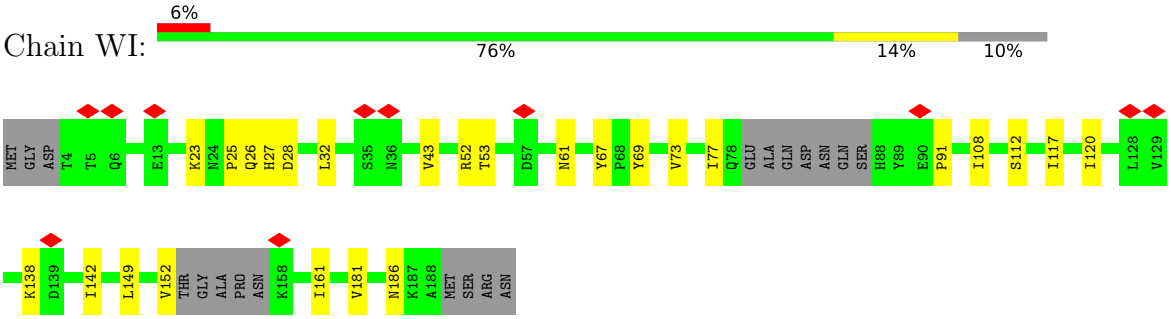
• Molecule 4: DUF228 domain-containing protein

Chain WH:



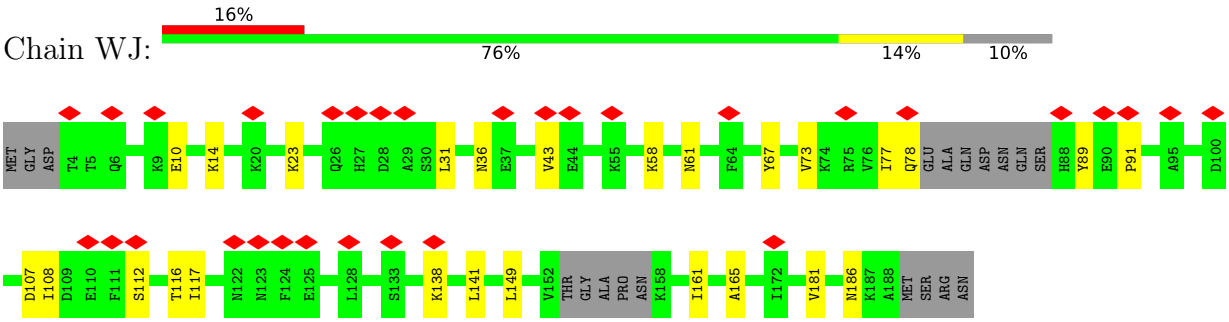
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Chain WI:



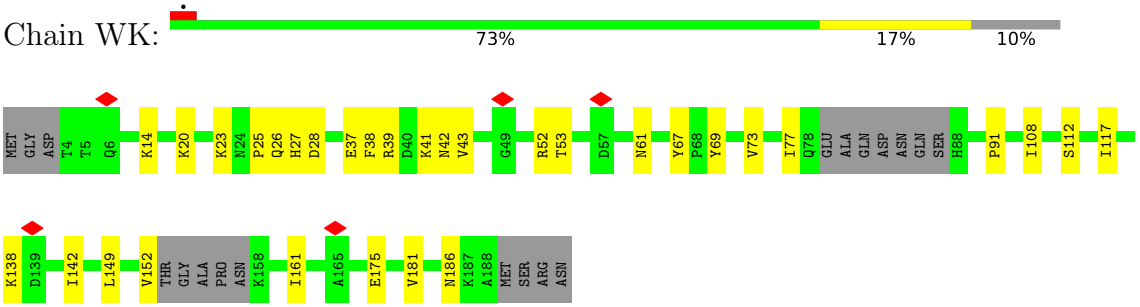
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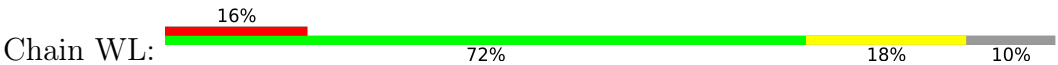
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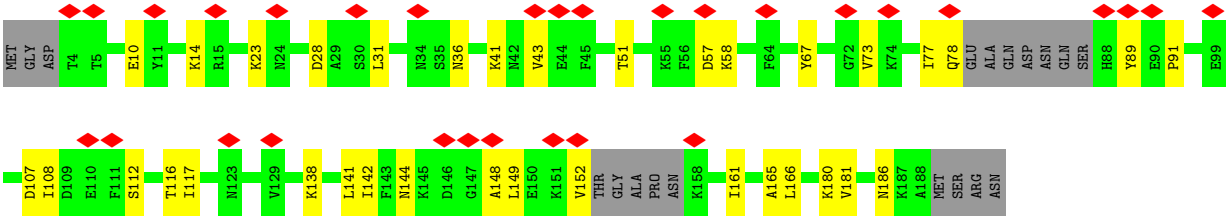
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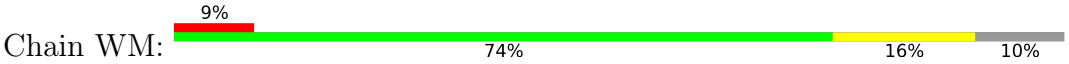
• Molecule 4: DUF228 domain-containing protein

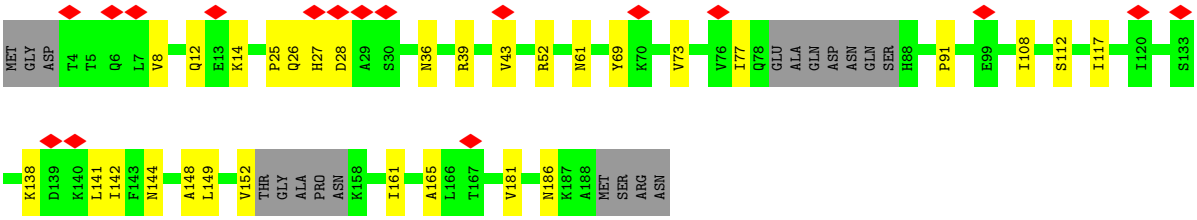
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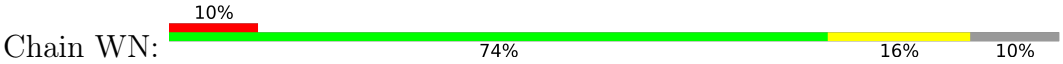


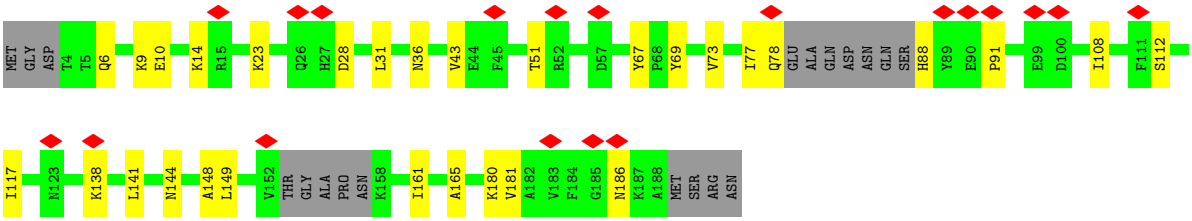
• Molecule 4: DUF228 domain-containing protein



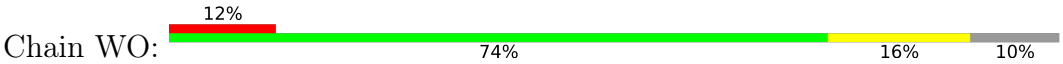


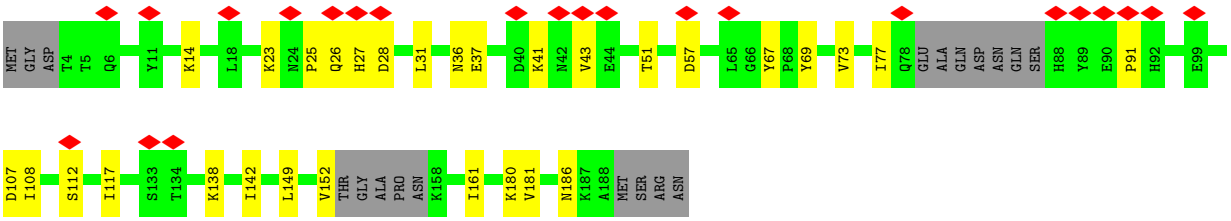
• Molecule 4: DUF228 domain-containing protein



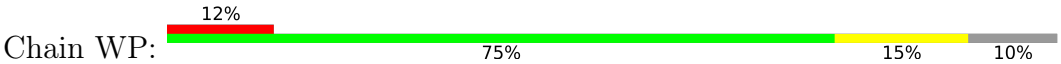


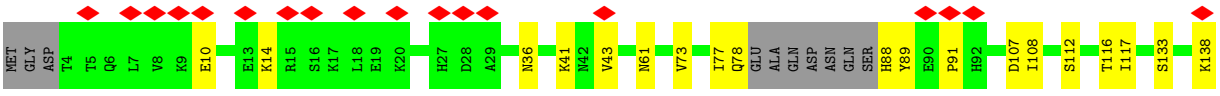
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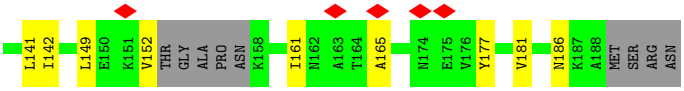




• Molecule 4: DUF228 domain-containing protein



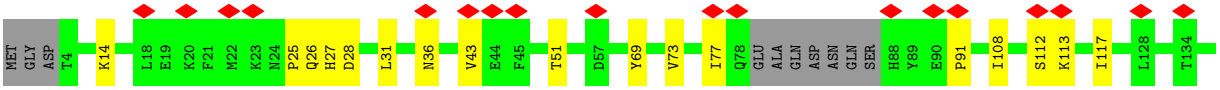




• Molecule 4: DUF228 domain-containing protein

Chain WQ:



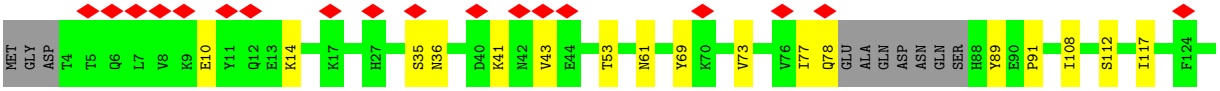


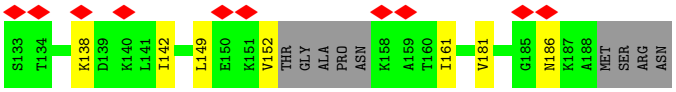


• Molecule 4: DUF228 domain-containing protein

Chain WR:





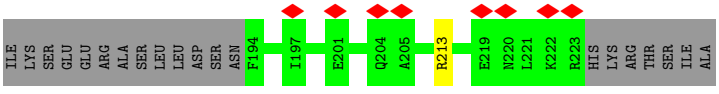


• Molecule 5: Scaffold protein

Chain DK:





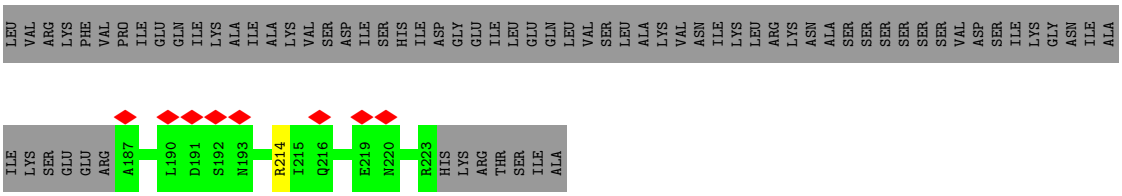


• Molecule 5: Scaffold protein

Chain DL:

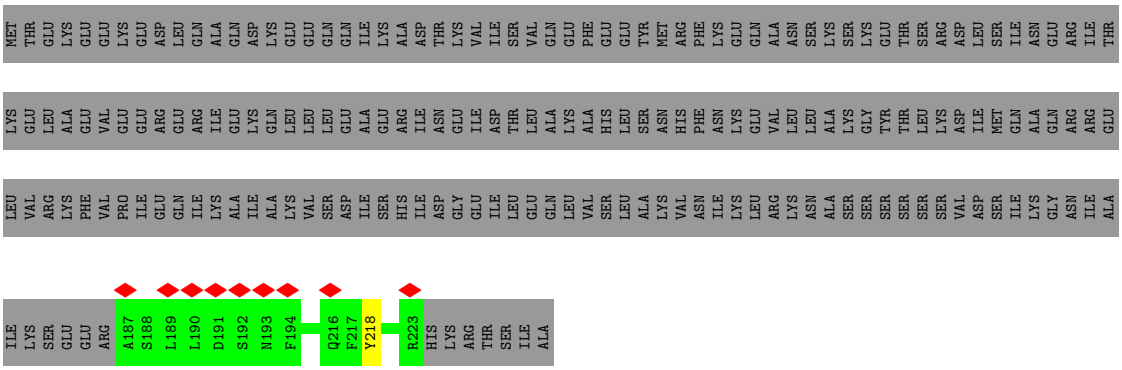




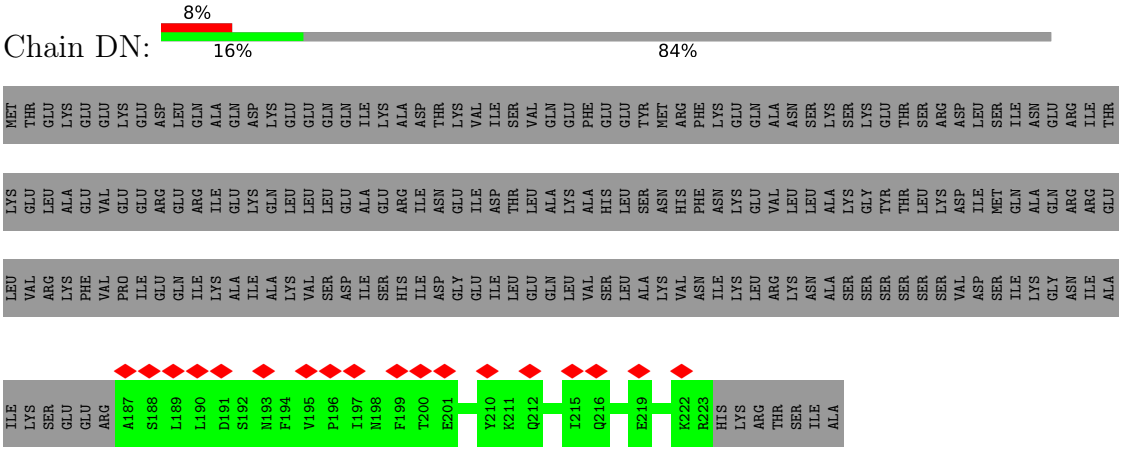


• Molecule 5: Scaffold protein

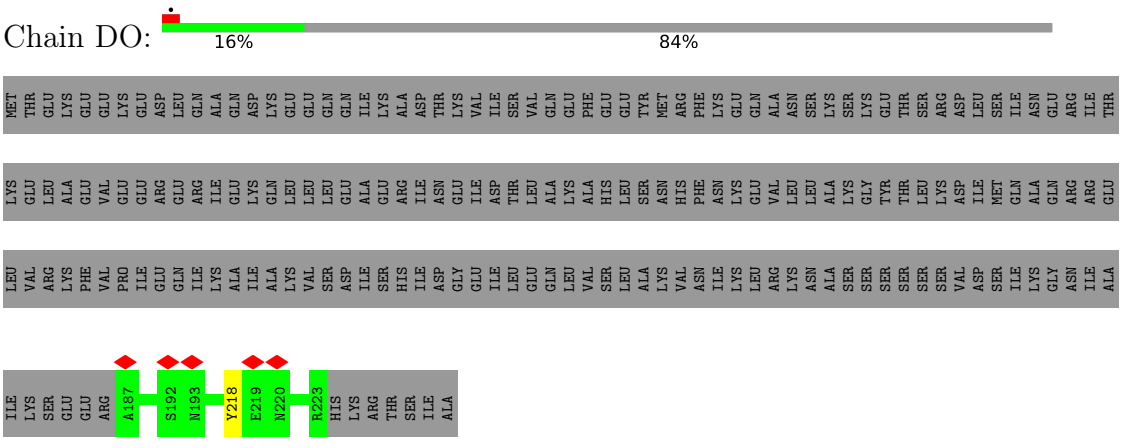




• Molecule 5: Scaffold protein

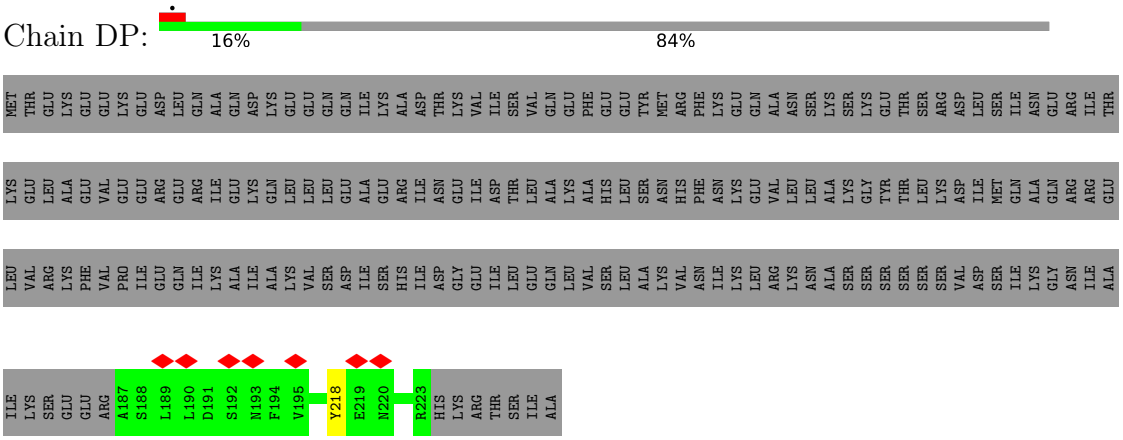


• Molecule 5: Scaffold protein



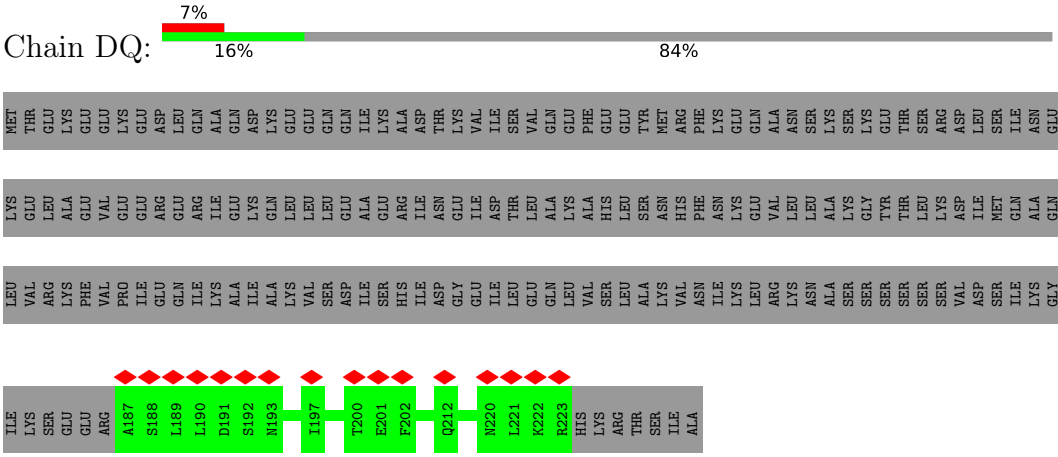
• Molecule 5: Scaffold protein

Chain DP:



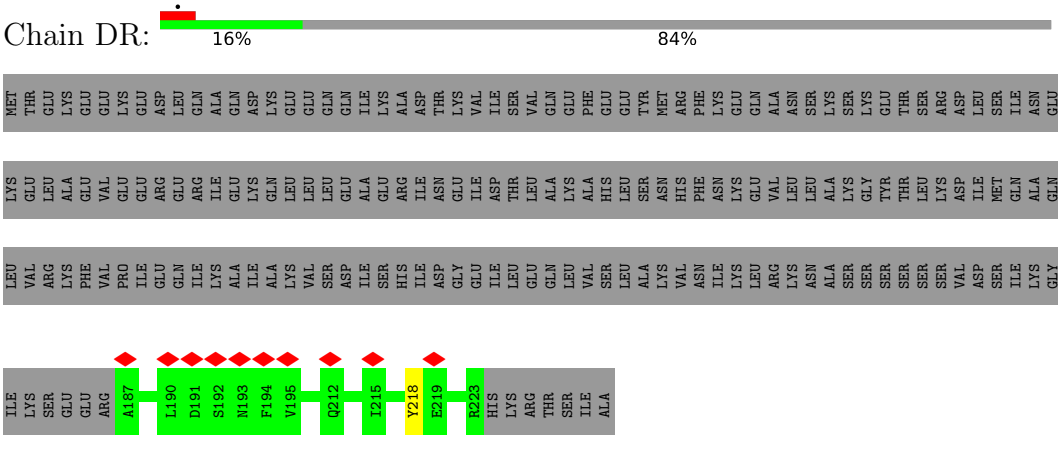
• Molecule 5: Scaffold protein

Chain DQ:



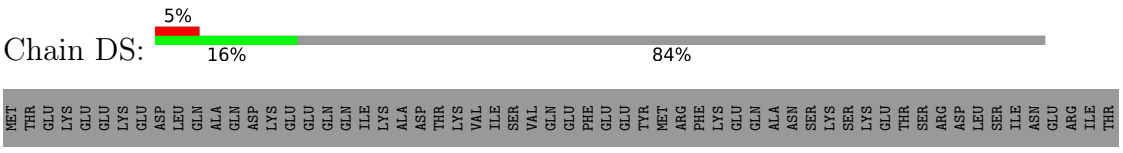
• Molecule 5: Scaffold protein

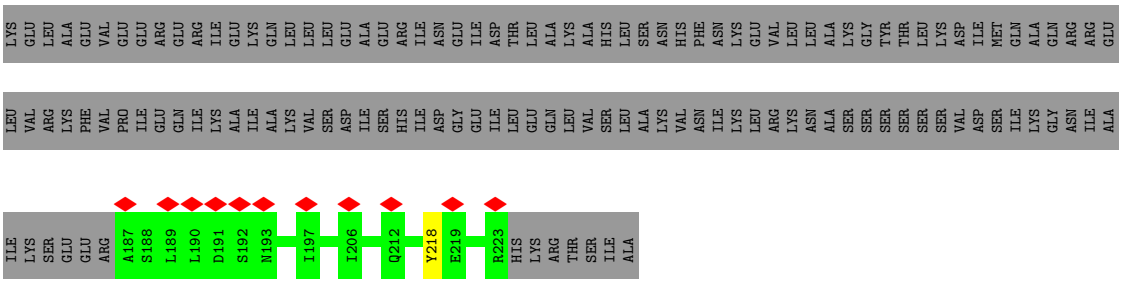
Chain DR:



• Molecule 5: Scaffold protein

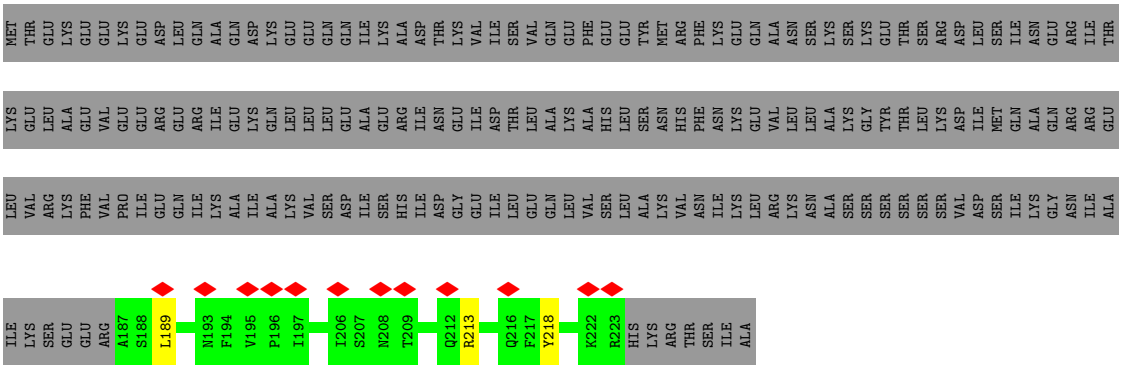
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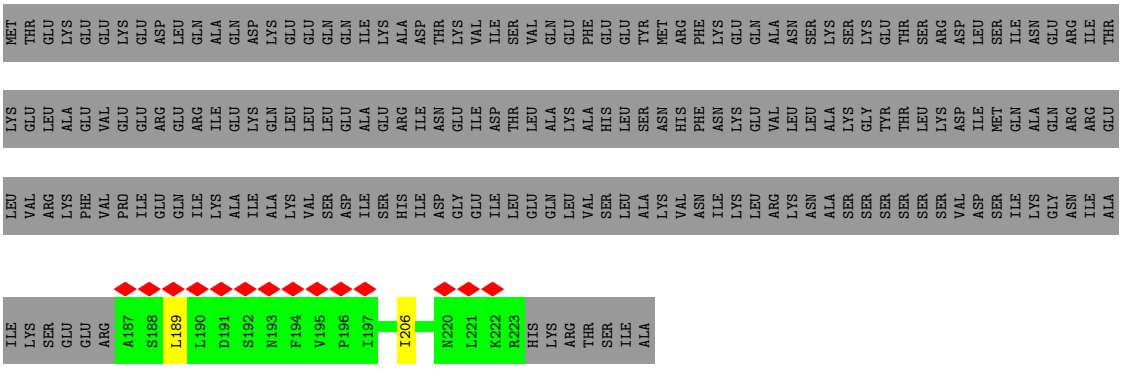
• Molecule 5: Scaffold protein





• Molecule 5: Scaffold protein

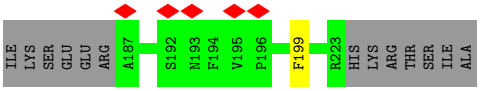




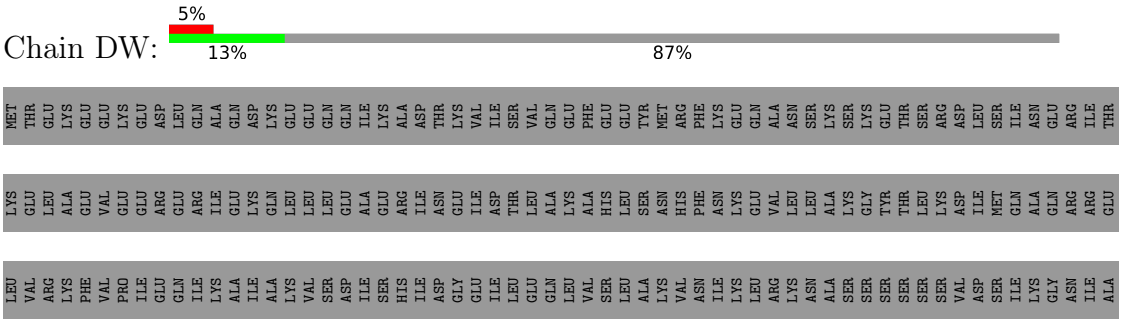
• Molecule 5: Scaffold protein



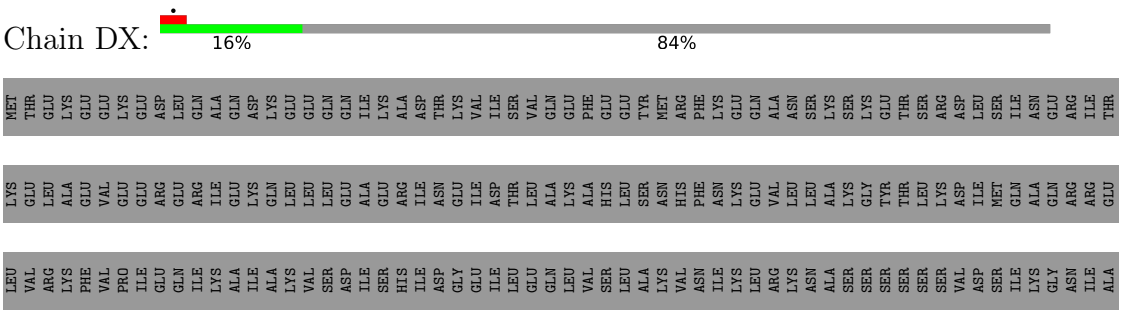




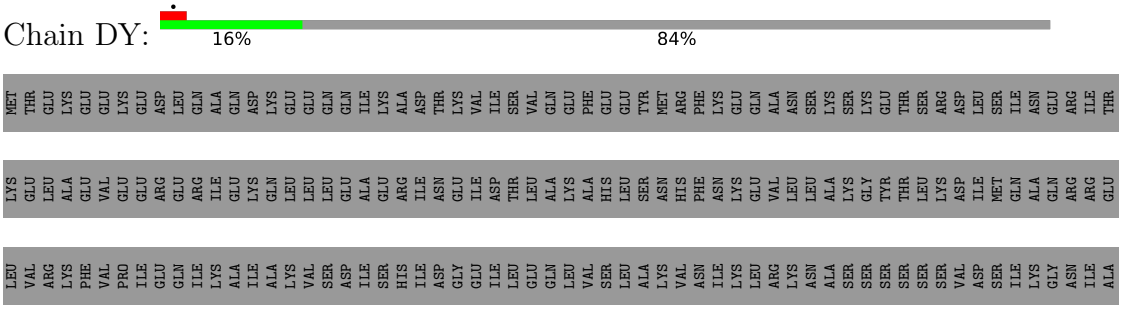
• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

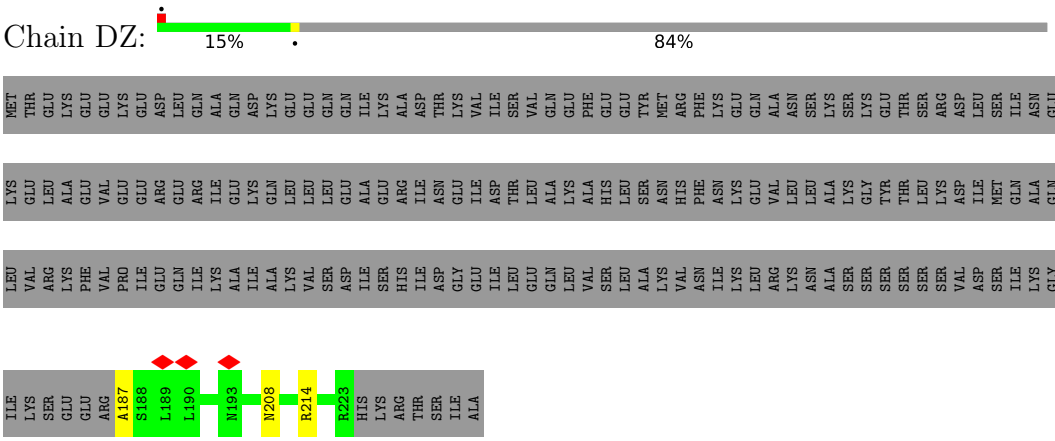


• Molecule 5: Scaffold protein



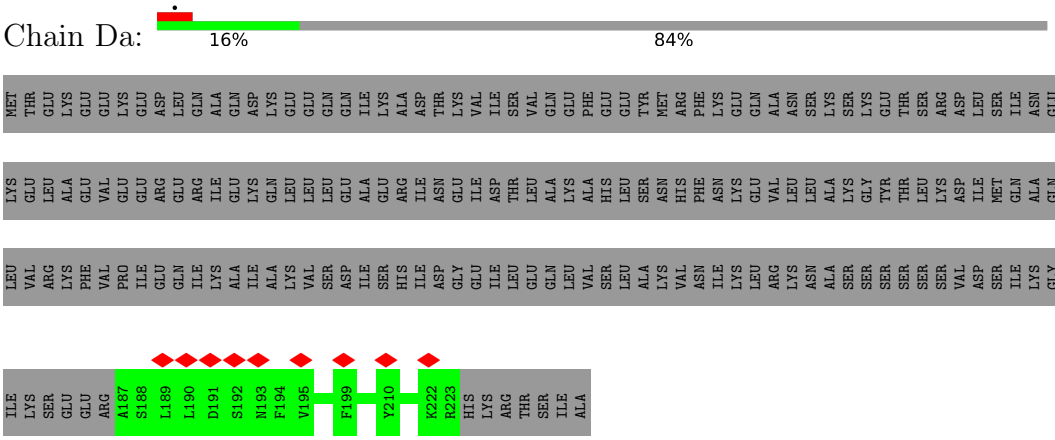
• Molecule 5: Scaffold protein

Chain DZ:



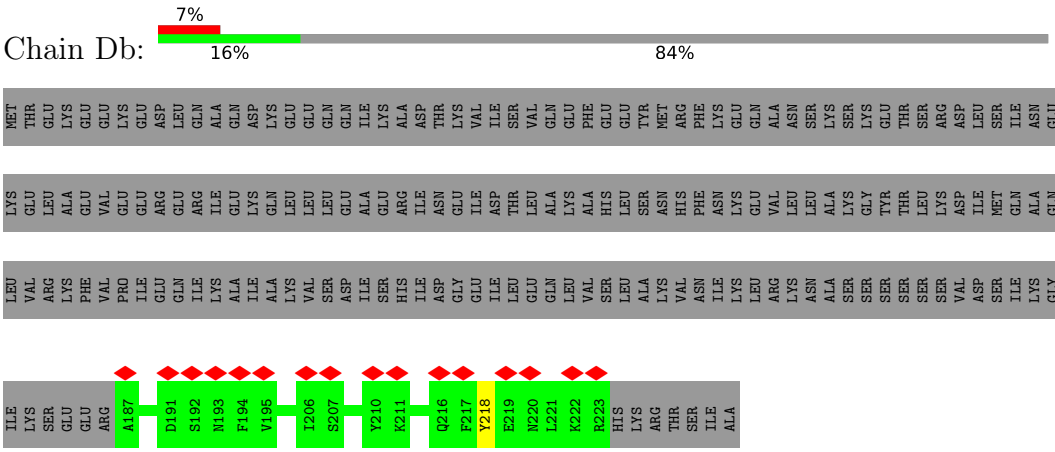
• Molecule 5: Scaffold protein

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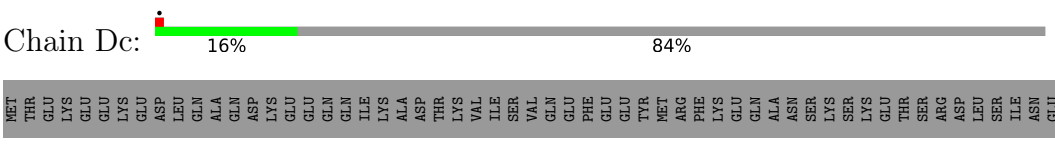
• Molecule 5: Scaffold protein

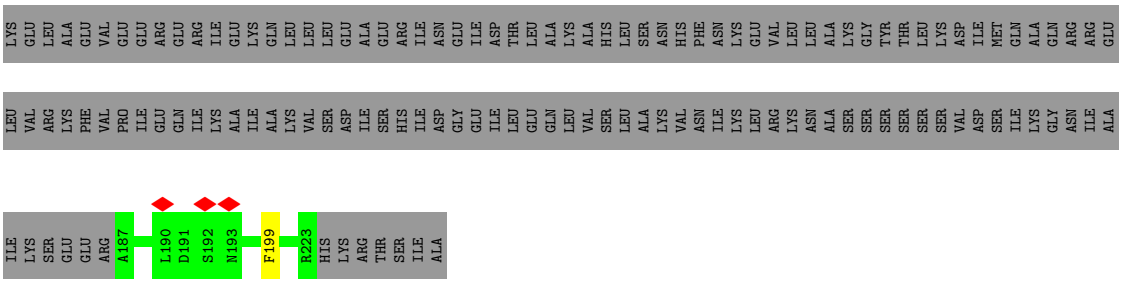
Chain Db:



• Molecule 5: Scaffold protein

Chain Dc:

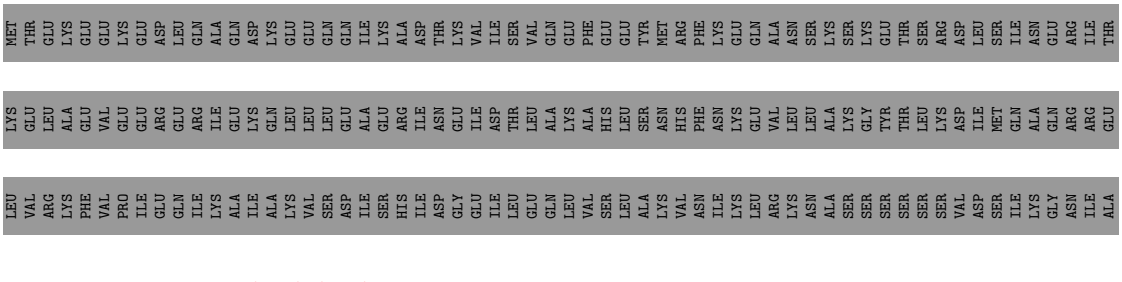




• Molecule 5: Scaffold protein

Chain Dd:

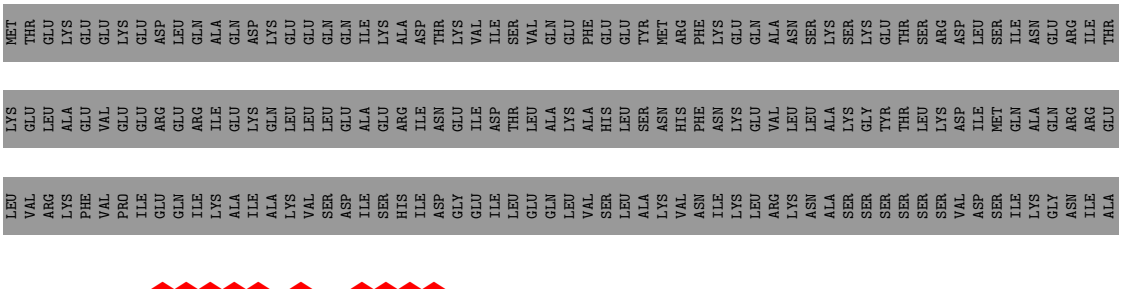




• Molecule 5: Scaffold protein

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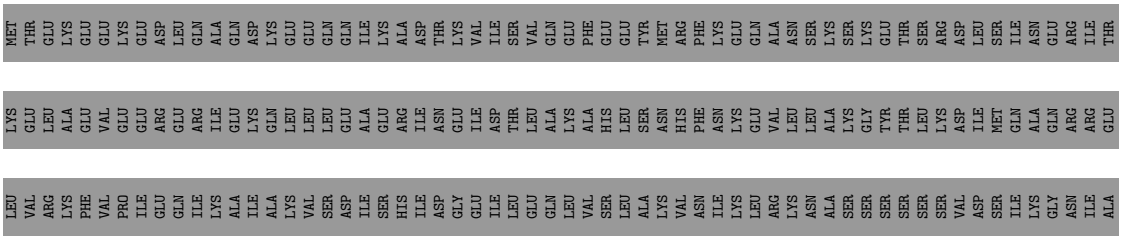


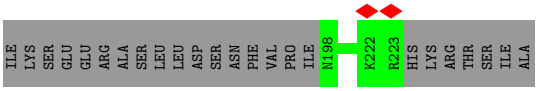


• Molecule 5: Scaffold protein

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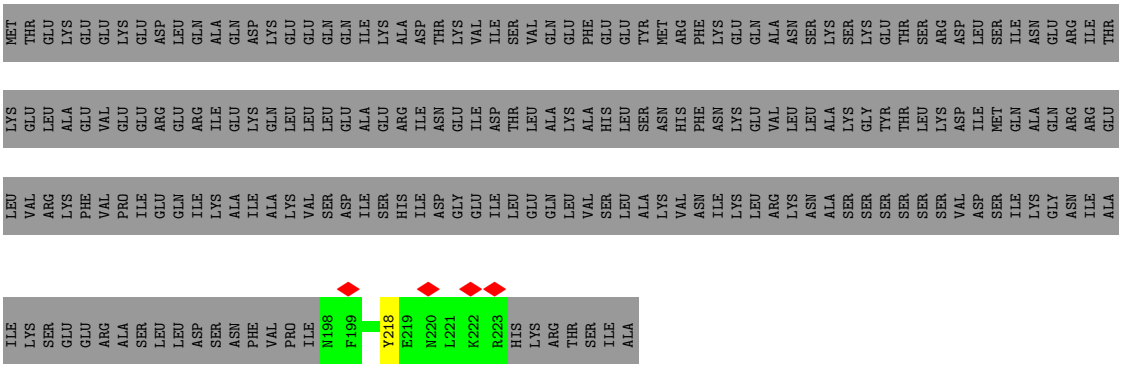




• Molecule 5: Scaffold protein

Chain Dg:

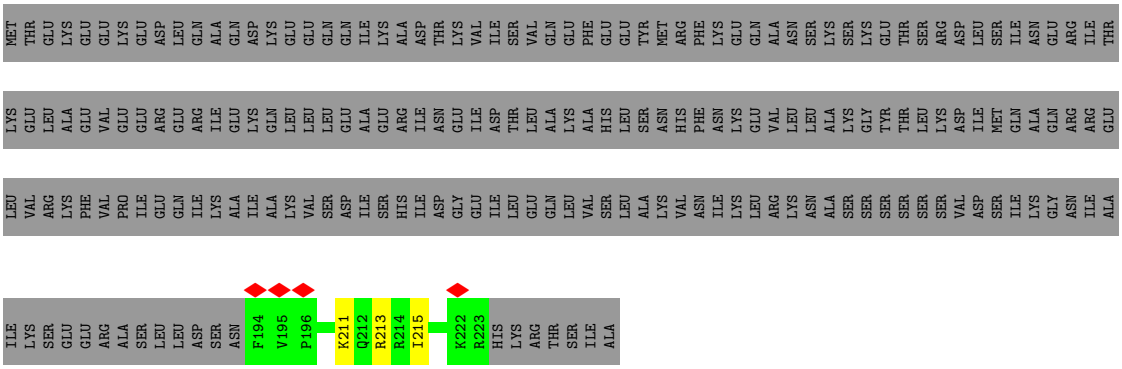




• Molecule 5: Scaffold protein

Chain Dh:

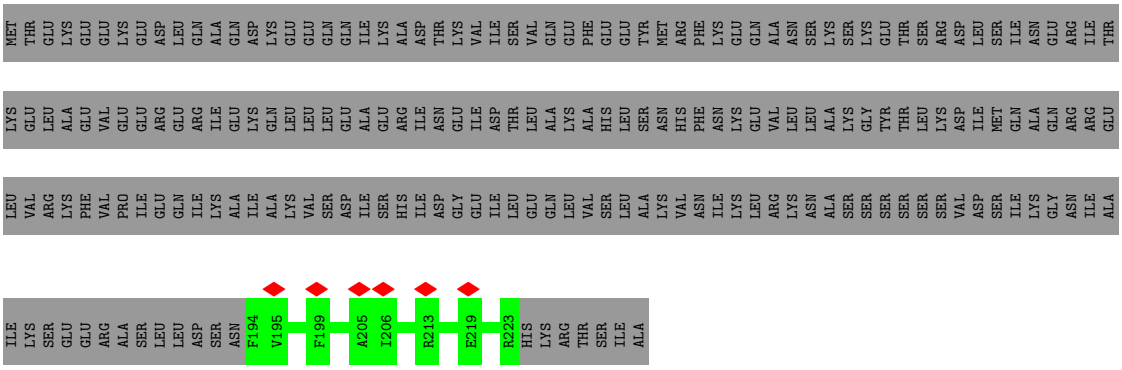




• Molecule 5: Scaffold protein

Chain Di:

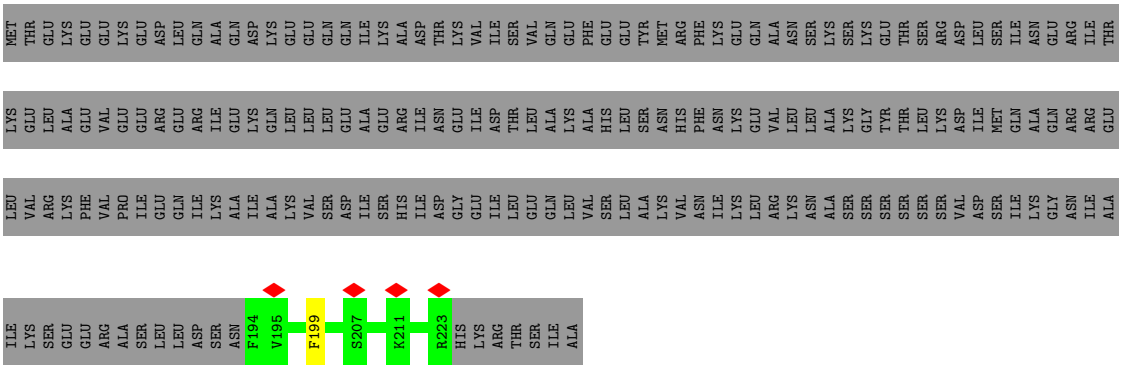




• Molecule 5: Scaffold protein

Chain Dj:

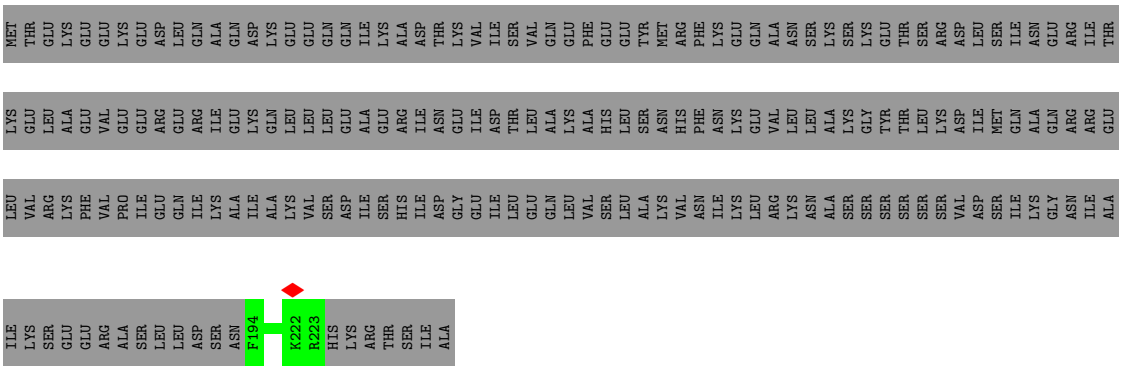




• Molecule 5: Scaffold protein

Chain Dk:

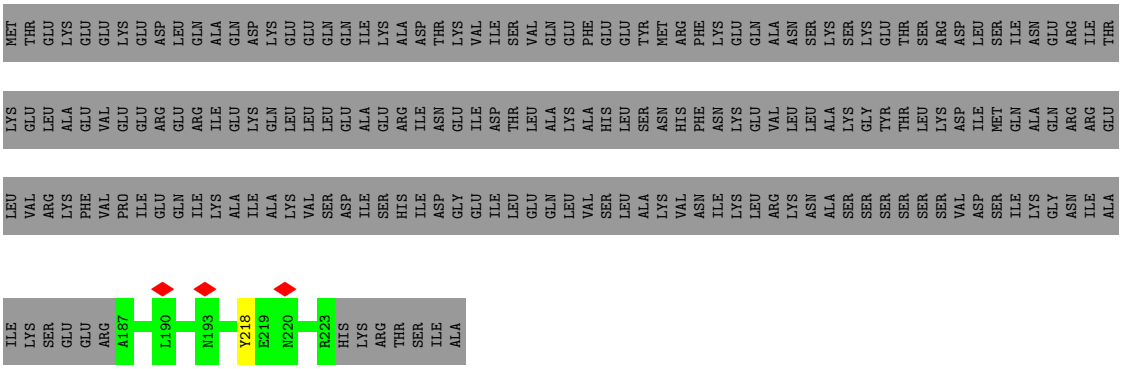




• Molecule 5: Scaffold protein

Chain Dl:



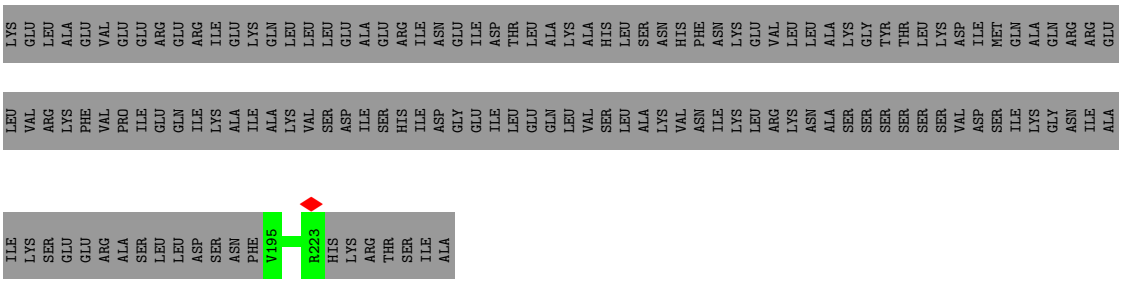


• Molecule 5: Scaffold protein

Chain Dm:



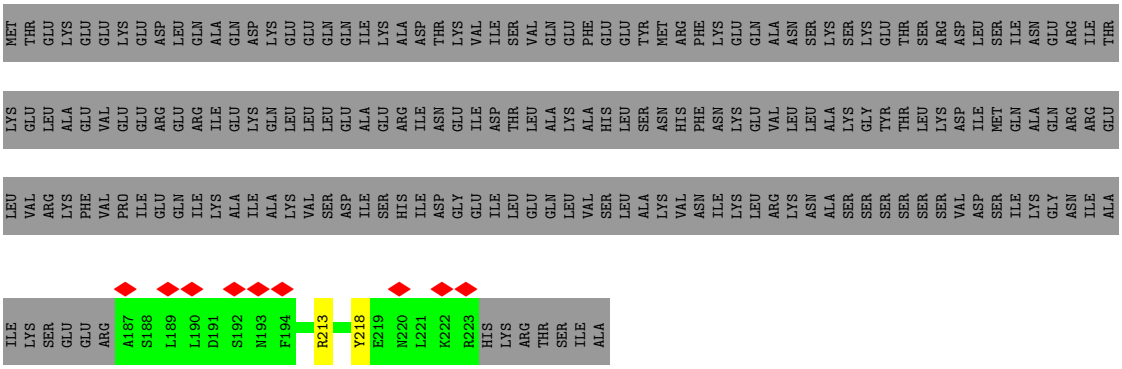




• Molecule 5: Scaffold protein

Chain Dn:

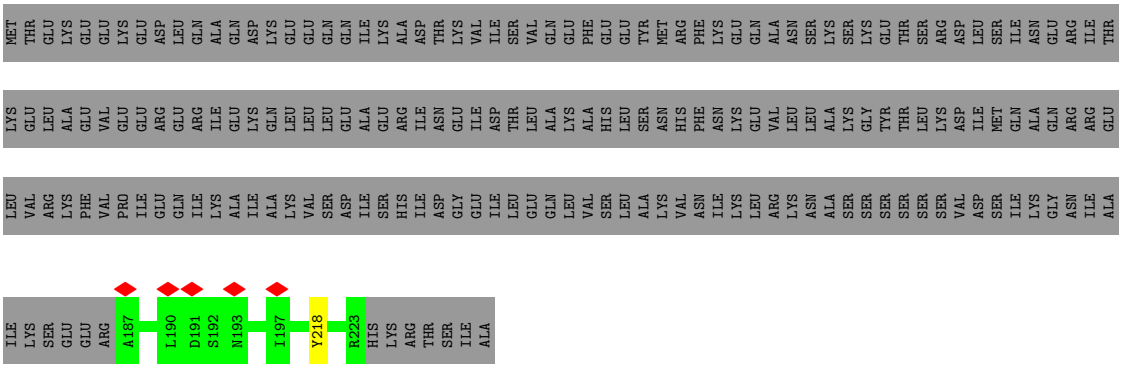




• Molecule 5: Scaffold protein

Chain Do:

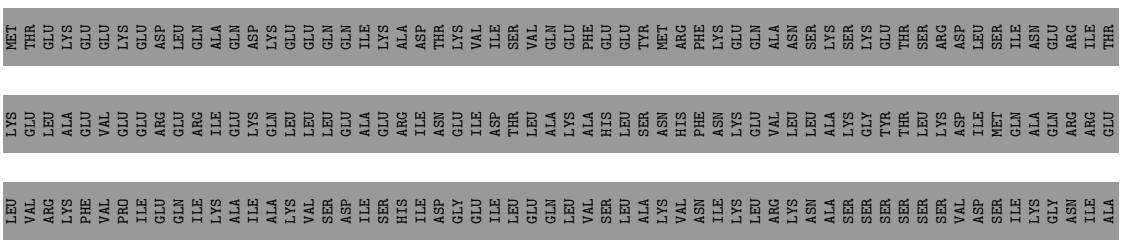


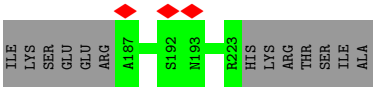


• Molecule 5: Scaffold protein

Chain Dp:





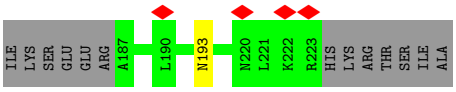


• Molecule 5: Scaffold protein

Chain Dq:





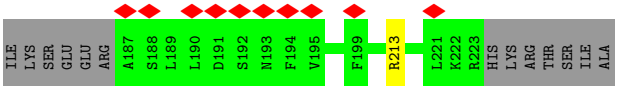


• Molecule 5: Scaffold protein

Chain Dr:





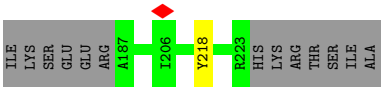


• Molecule 5: Scaffold protein

Chain Ds:

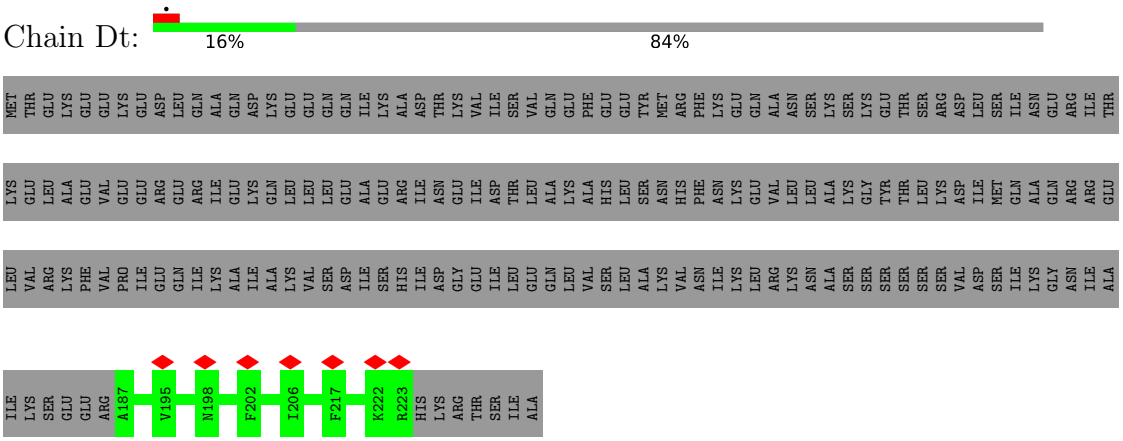






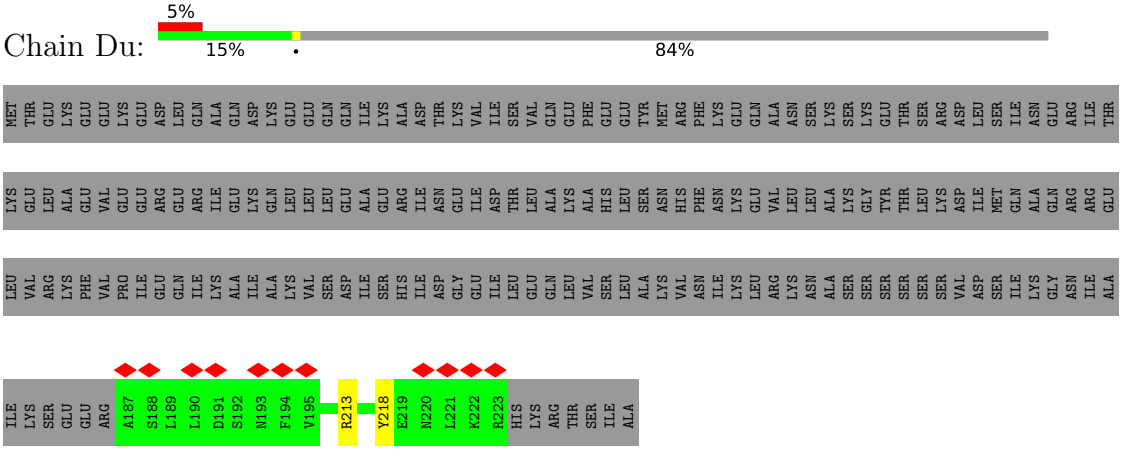
• Molecule 5: Scaffold protein

Chain Dt:



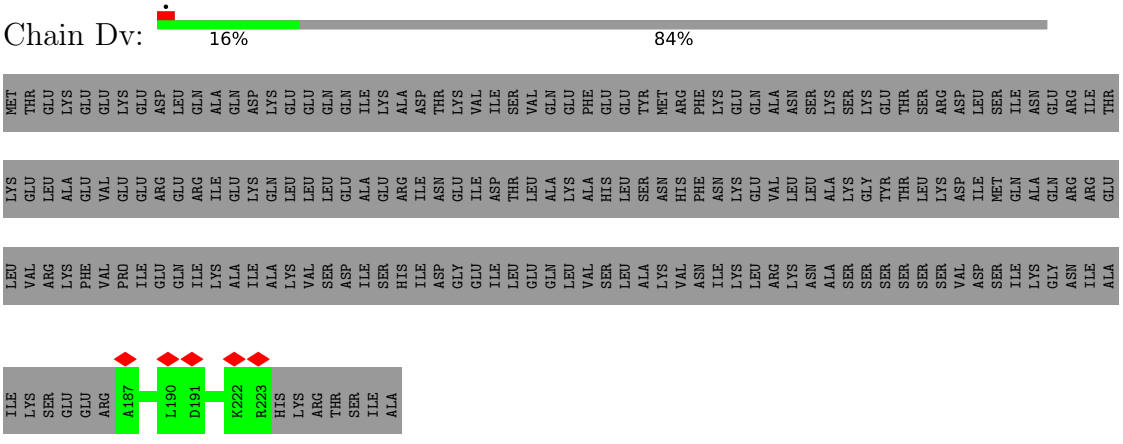
• Molecule 5: Scaffold protein

Chain Du:



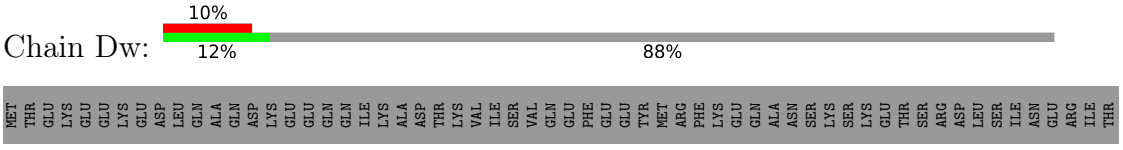
• Molecule 5: Scaffold protein

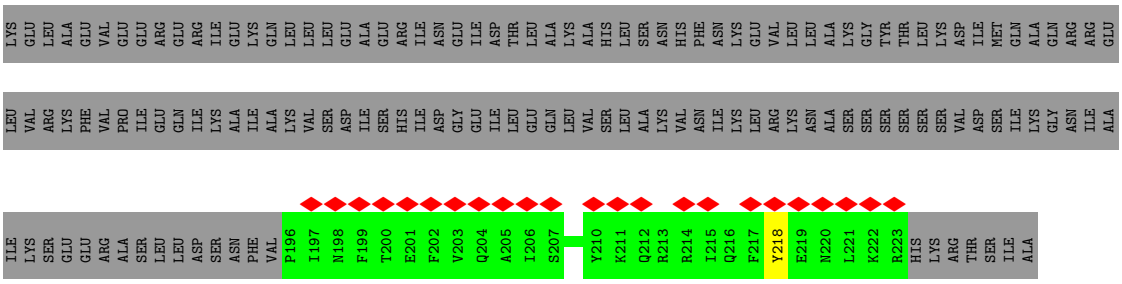
Chain Dv:



• Molecule 5: Scaffold protein

Chain Dw:





• Molecule 5: Scaffold protein

Chain Dx:





• Molecule 5: Scaffold protein

Chain Dy:

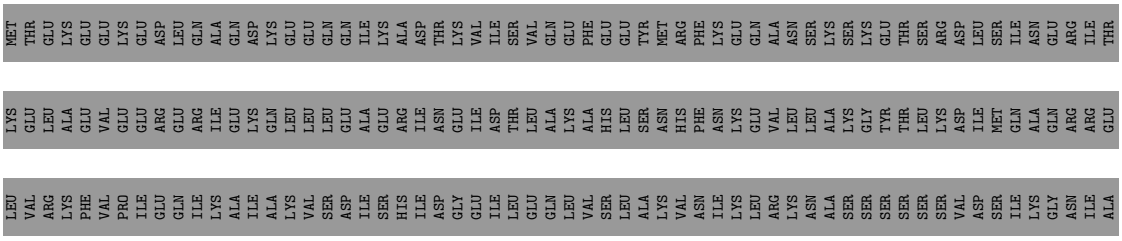


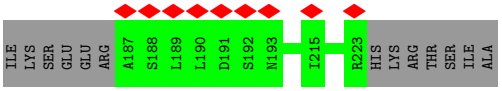


• Molecule 5: Scaffold protein

Chain Dz:

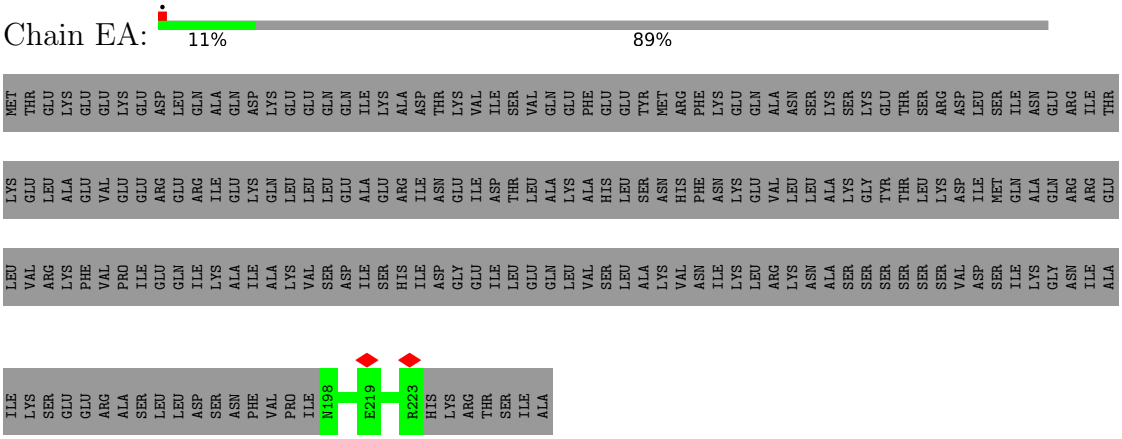






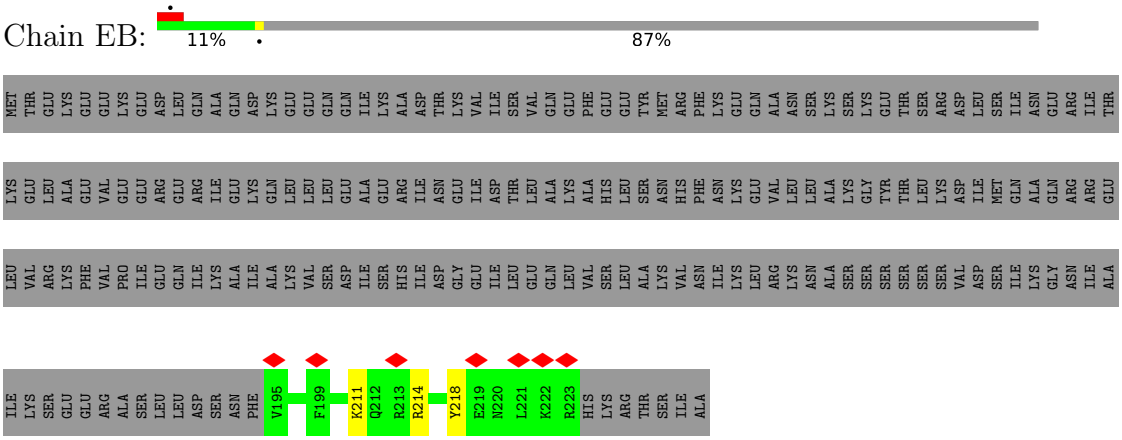
• Molecule 5: Scaffold protein

Chain EA:



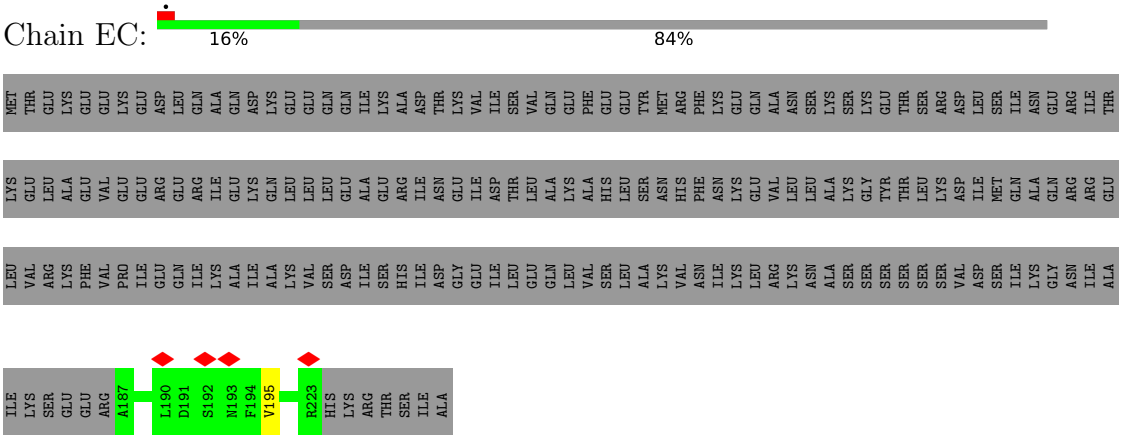
• Molecule 5: Scaffold protein

Chain EB:



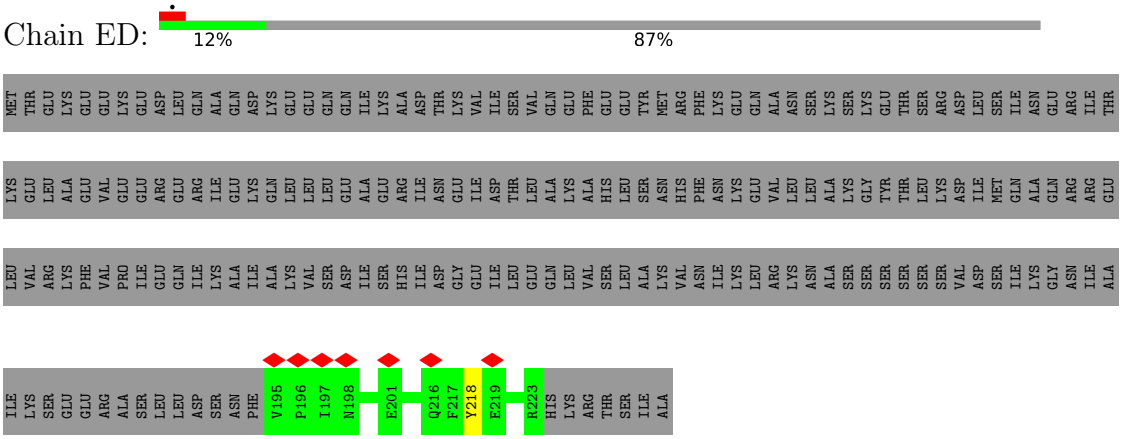
• Molecule 5: Scaffold protein

Chain EC:



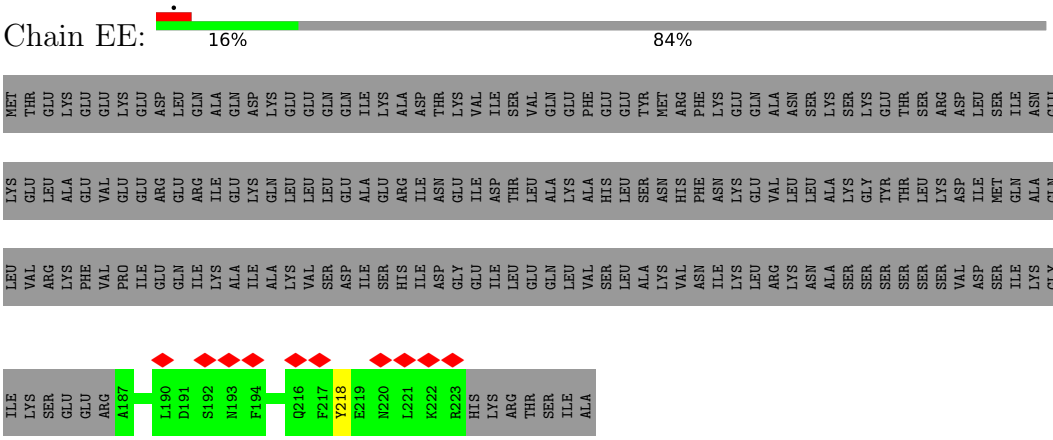
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Chain ED:



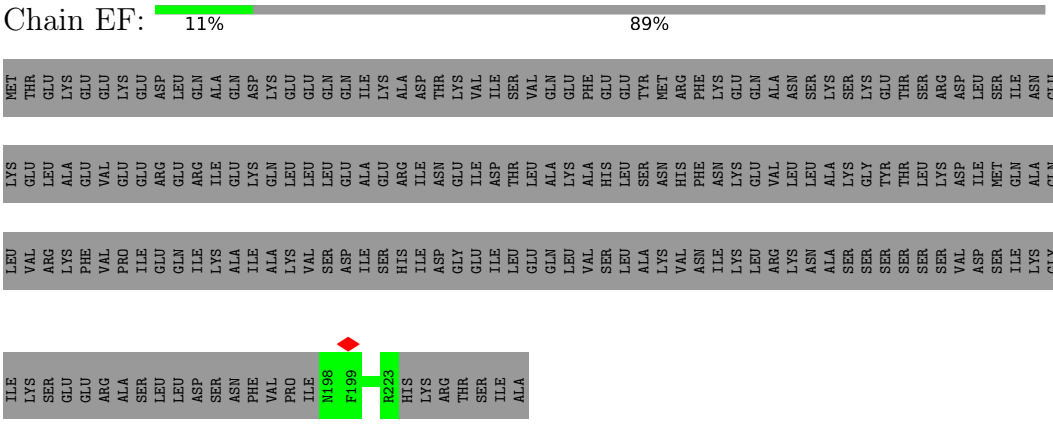
• Molecule 5: Scaffold protein

Chain EE:



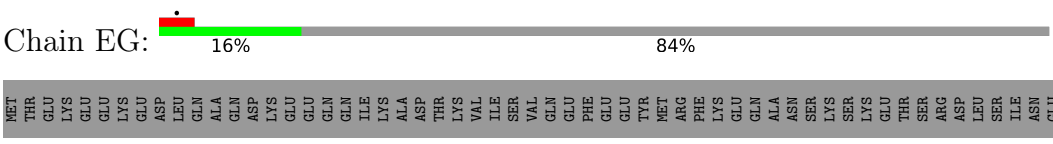
• Molecule 5: Scaffold protein

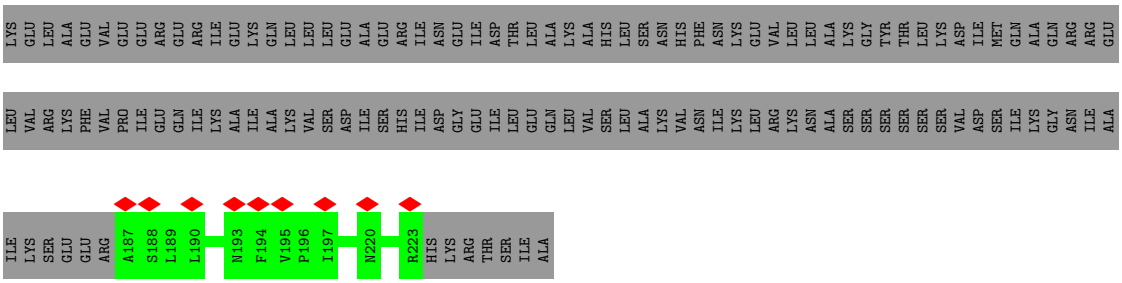
Chain EF:



• Molecule 5: Scaffold protein

Chain EG:



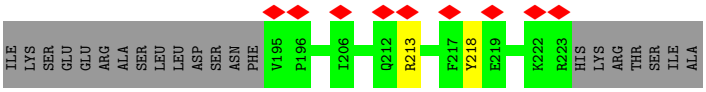


• Molecule 5: Scaffold protein

Chain EH:





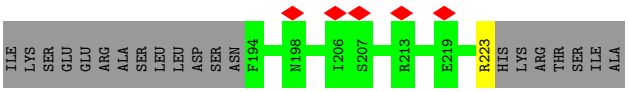


• Molecule 5: Scaffold protein

Chain EI:





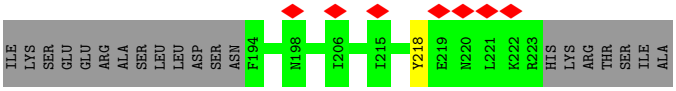


• Molecule 5: Scaffold protein

Chain EJ:



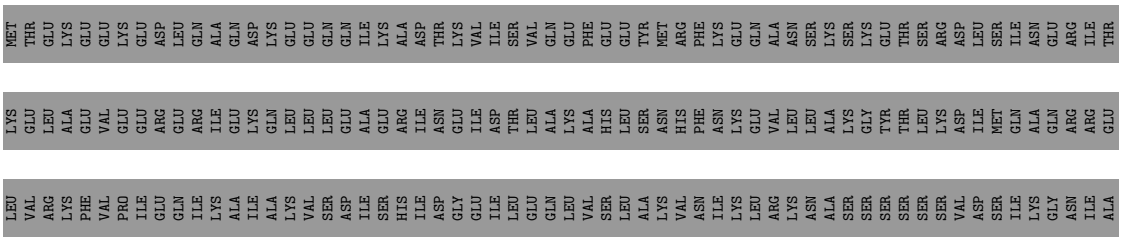




• Molecule 5: Scaffold protein

Chain EK:



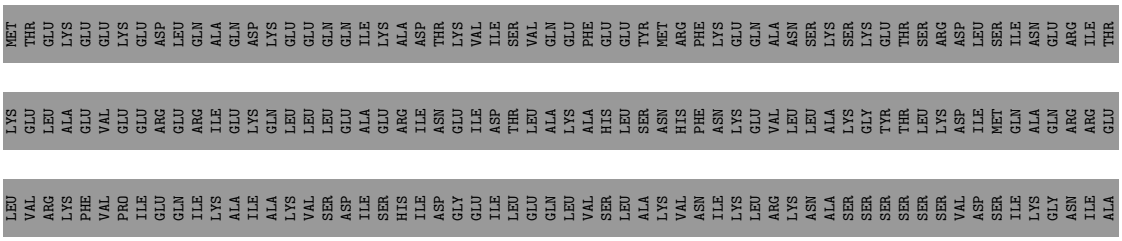


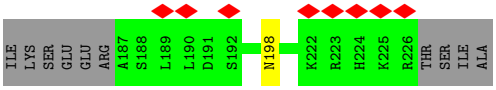


• Molecule 5: Scaffold protein

Chain EL:





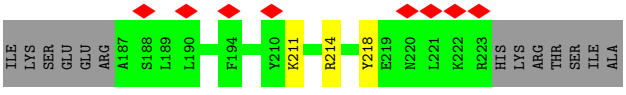


• Molecule 5: Scaffold protein

Chain EM:

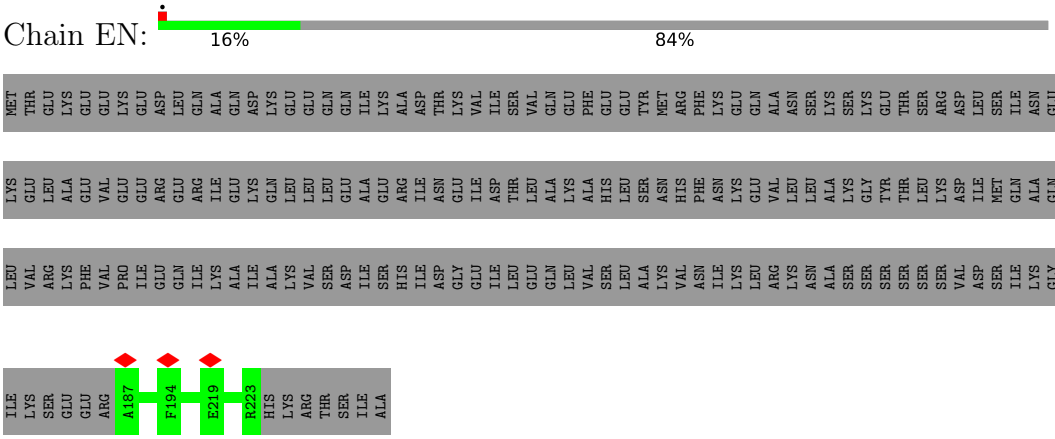






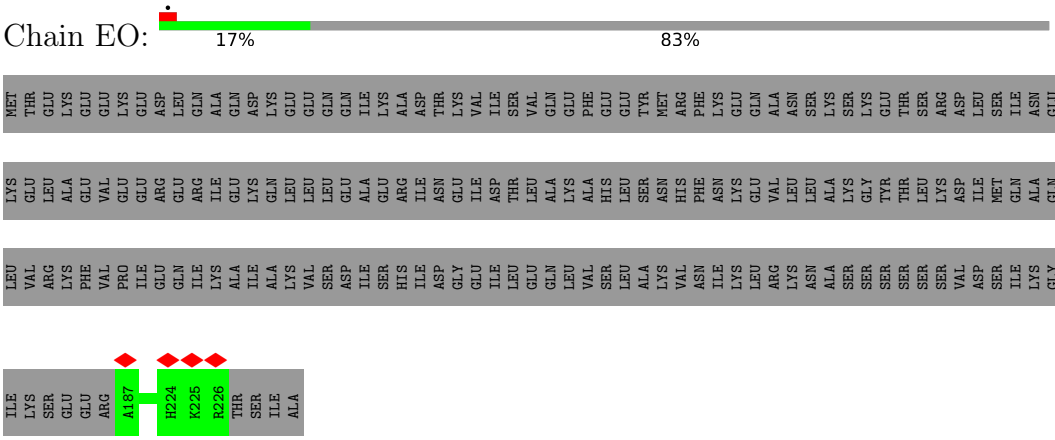
• Molecule 5: Scaffold protein

Chain EN:



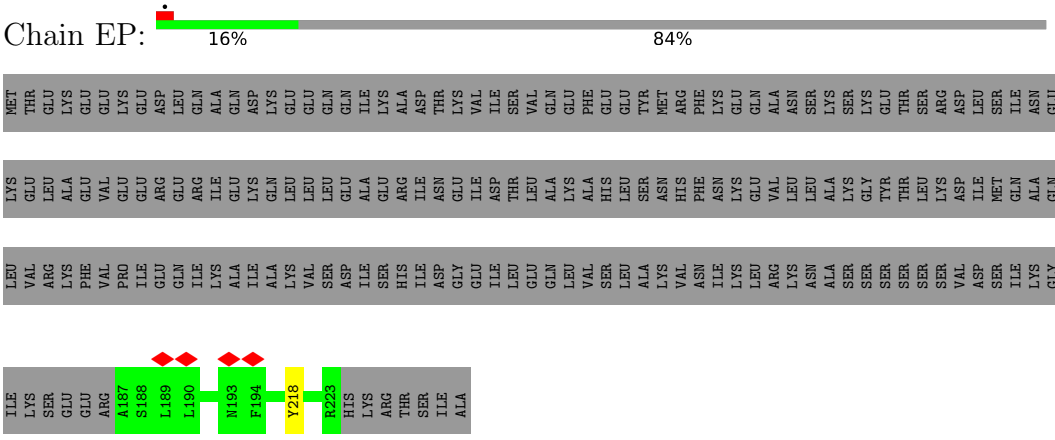
• Molecule 5: Scaffold protein

Chain EO:



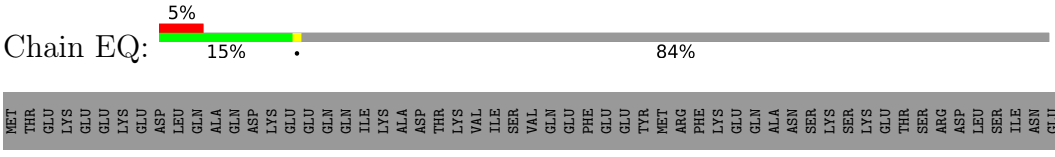
• Molecule 5: Scaffold protein

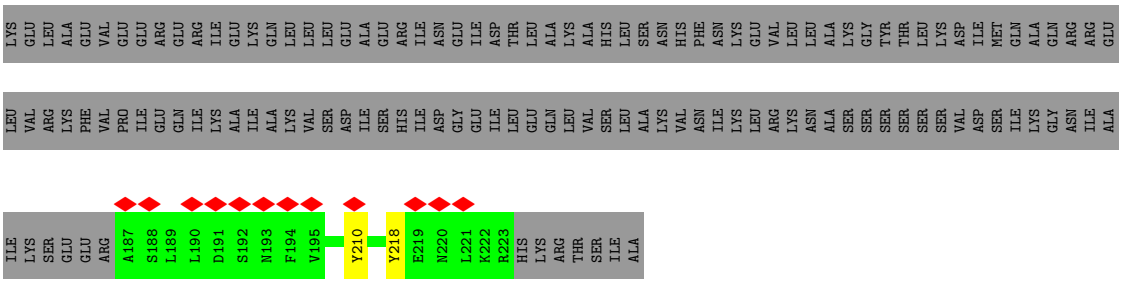
Chain EP:



• Molecule 5: Scaffold protein

Chain EQ:





• Molecule 5: Scaffold protein

Chain ER:





• Molecule 5: Scaffold protein

Chain ES:

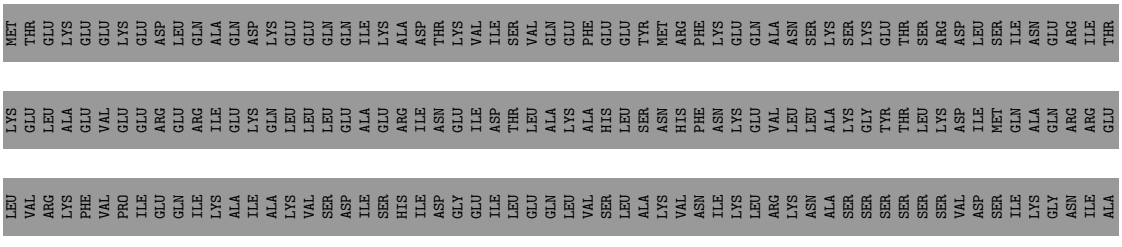


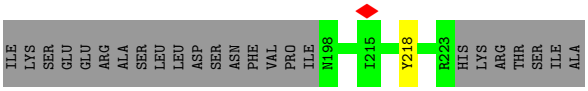


• Molecule 5: Scaffold protein

Chain ET:



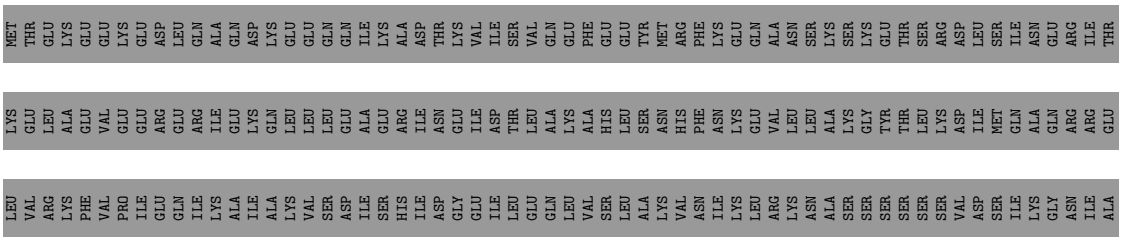


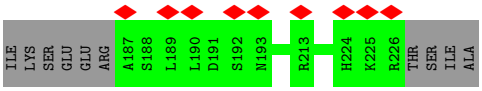


• Molecule 5: Scaffold protein

Chain EU:



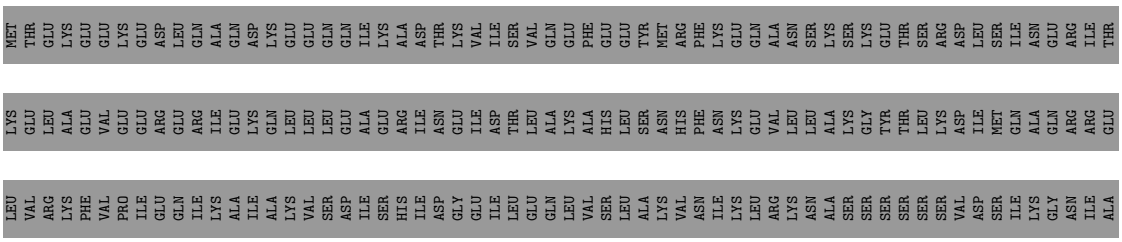


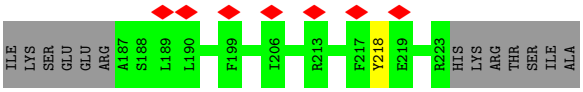


• Molecule 5: Scaffold protein

Chain EV:





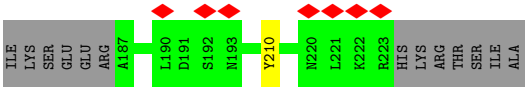


• Molecule 5: Scaffold protein

Chain EW:

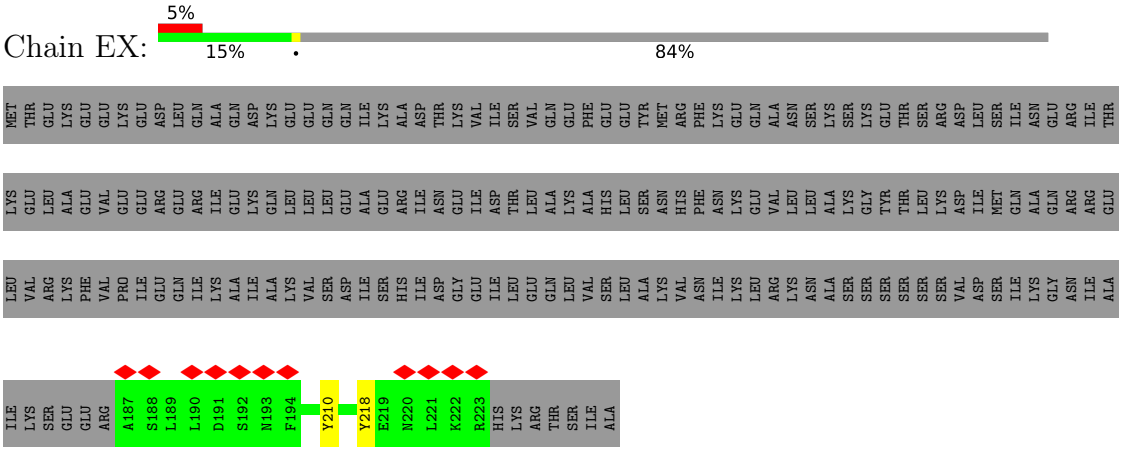






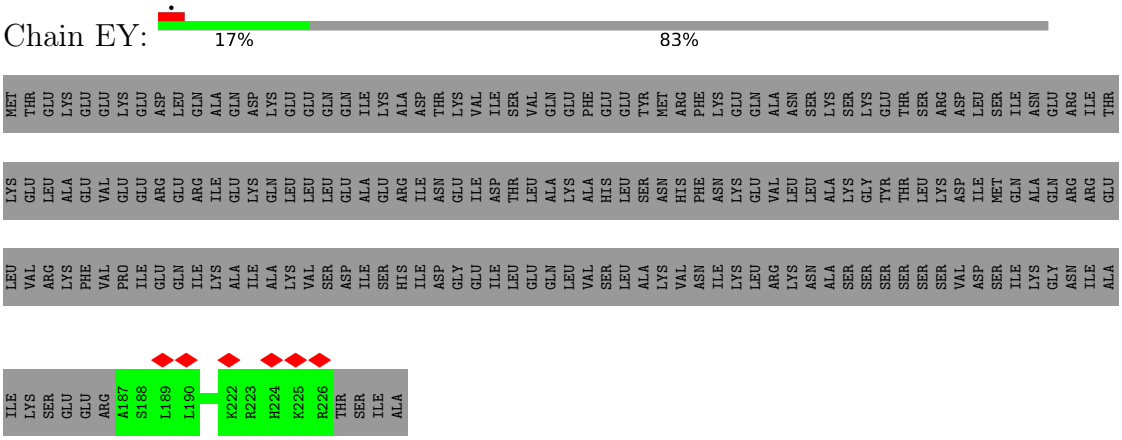
• Molecule 5: Scaffold protein

Chain EX:



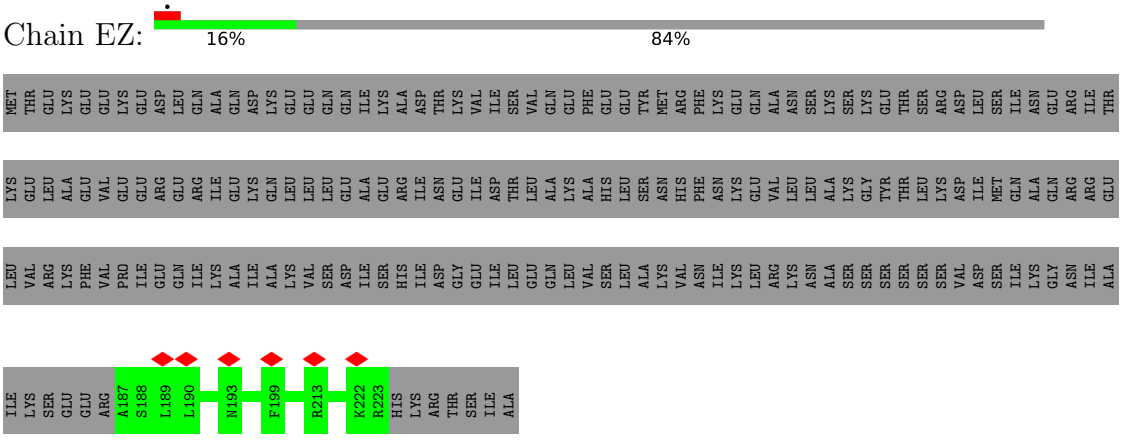
• Molecule 5: Scaffold protein

Chain EY:



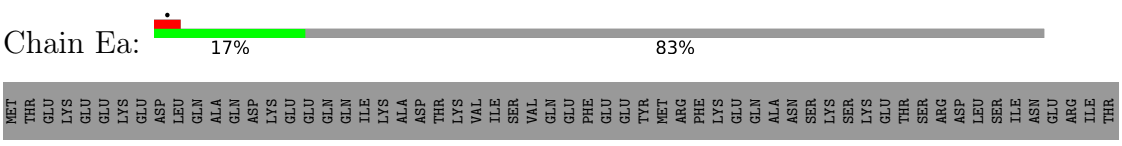
• Molecule 5: Scaffold protein

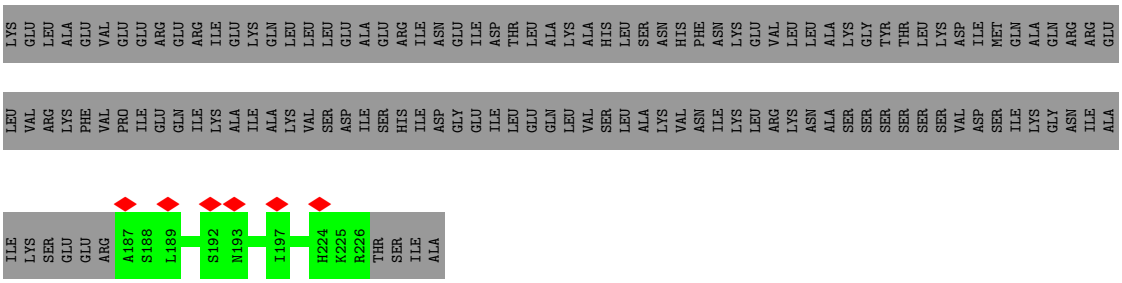
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• Molecule 5: Scaffold protein

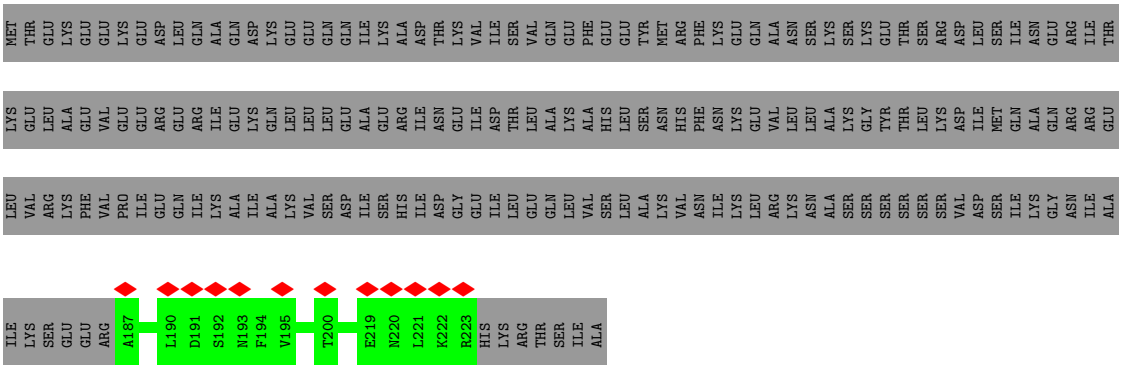
Chain Ea:





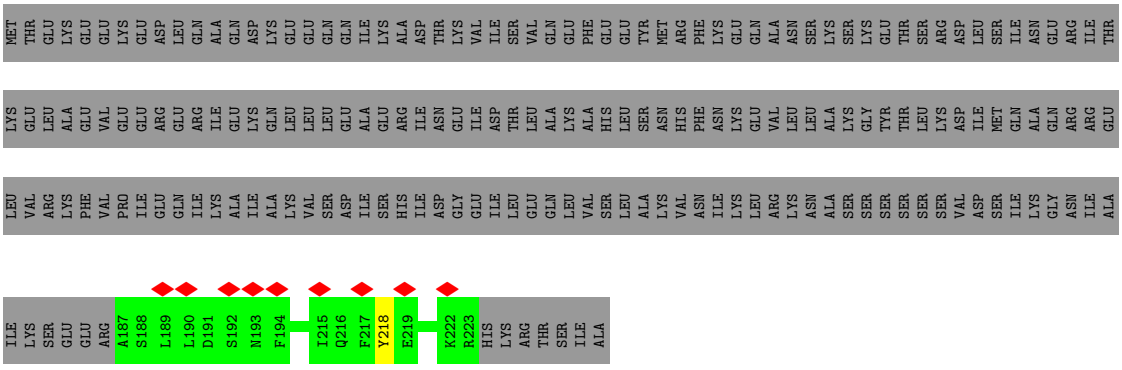
• Molecule 5: Scaffold protein





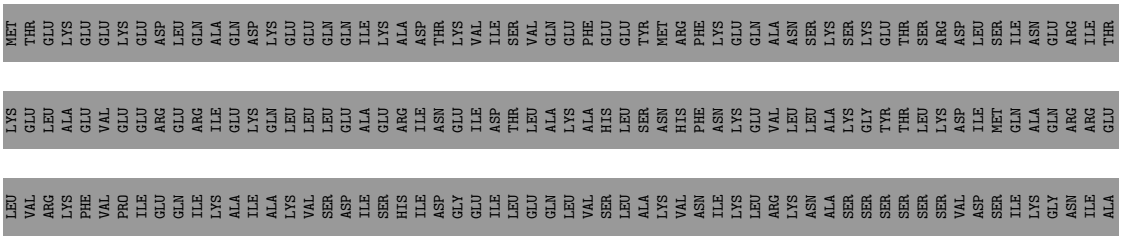
• Molecule 5: Scaffold protein

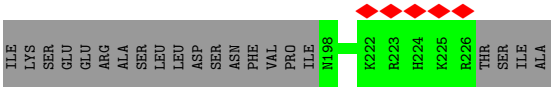




• Molecule 5: Scaffold protein



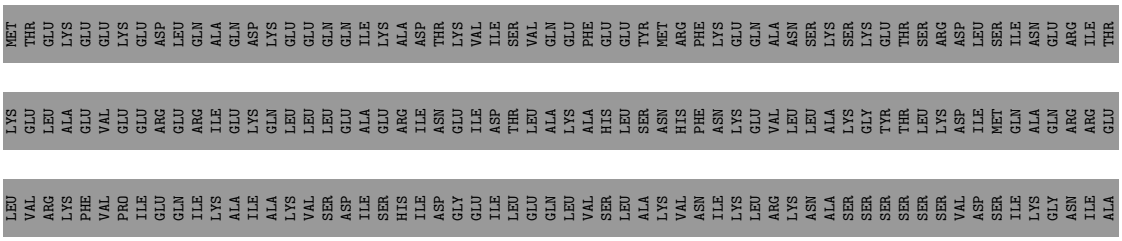


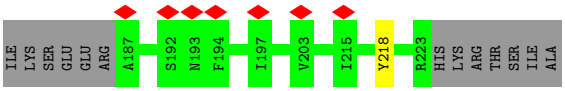


• Molecule 5: Scaffold protein

Chain Ee:





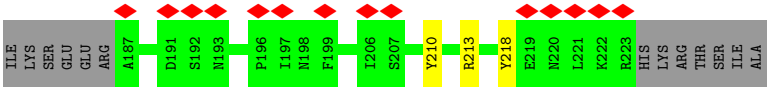


• Molecule 5: Scaffold protein

Chain Ef:





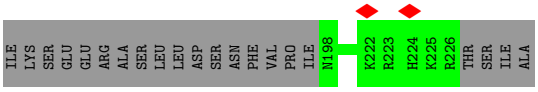


• Molecule 5: Scaffold protein

Chain Eg:

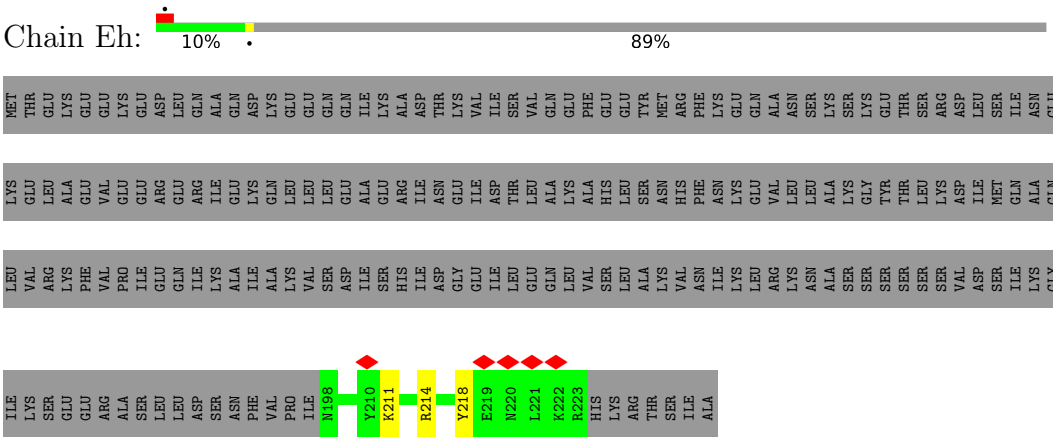






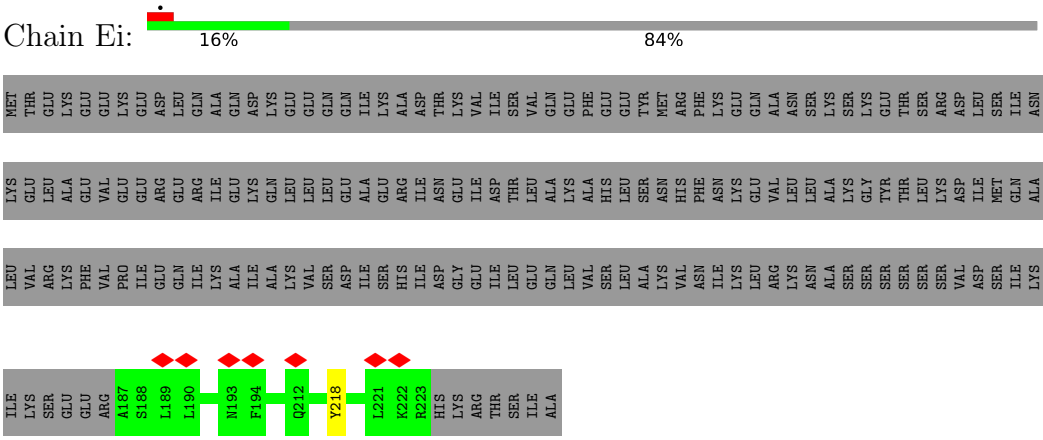
• Molecule 5: Scaffold protein

Chain Eh:



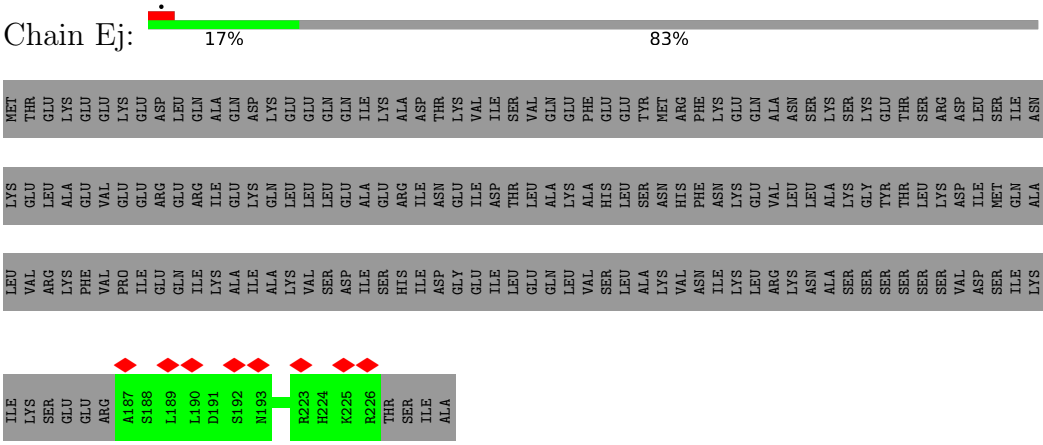
• Molecule 5: Scaffold protein

Chain Ei:



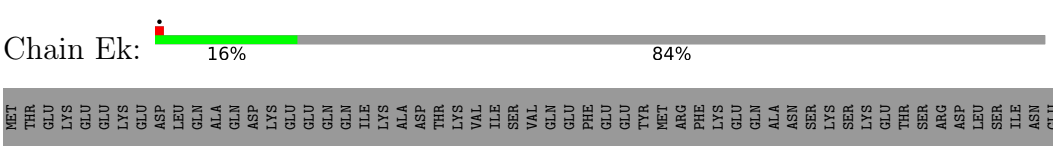
• Molecule 5: Scaffold protein

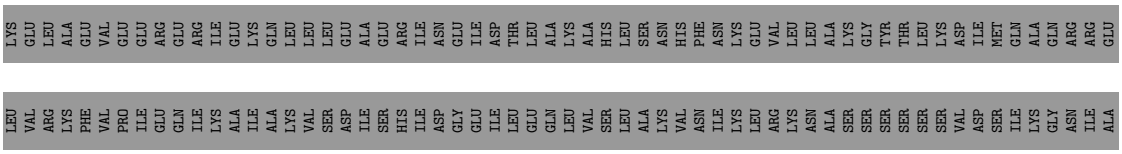
Chain Ej:



• Molecule 5: Scaffold protein

Chain Ek:

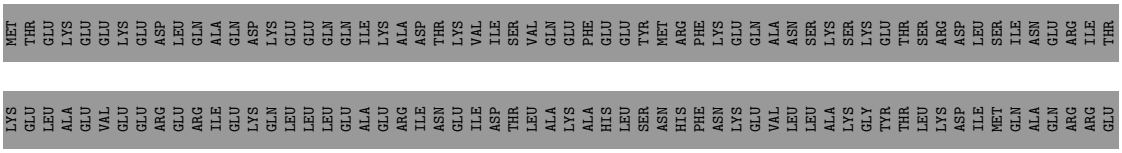




• Molecule 5: Scaffold protein

Chain El:

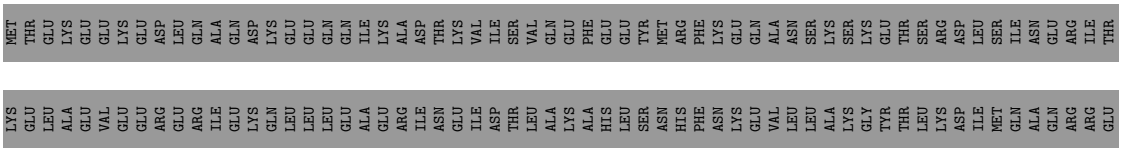




• Molecule 5: Scaffold protein

Chain Em:

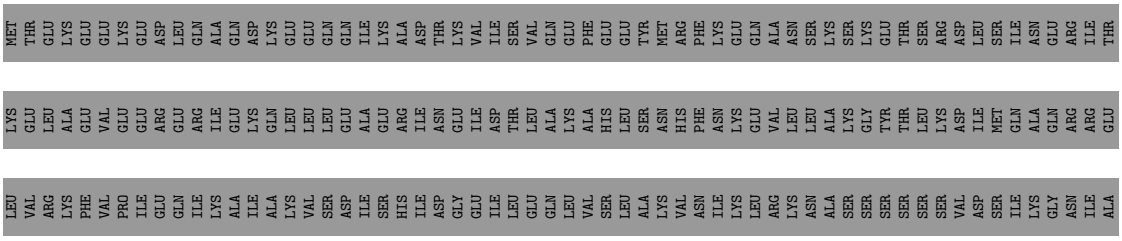


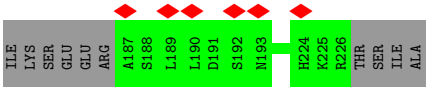


• Molecule 5: Scaffold protein

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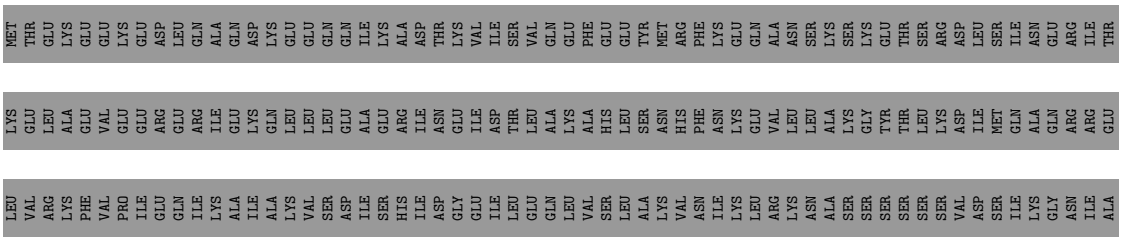


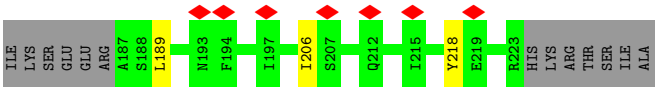


• Molecule 5: Scaffold protein

Chain Eo:



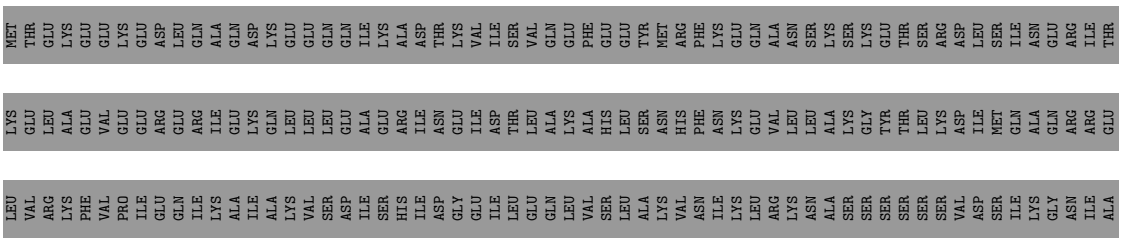


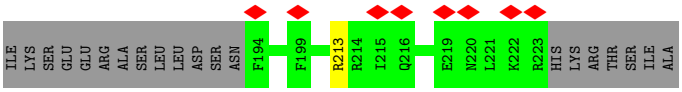


• Molecule 5: Scaffold protein

Chain Hz:





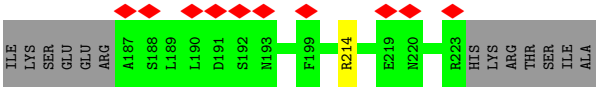


• Molecule 5: Scaffold protein

Chain IA:

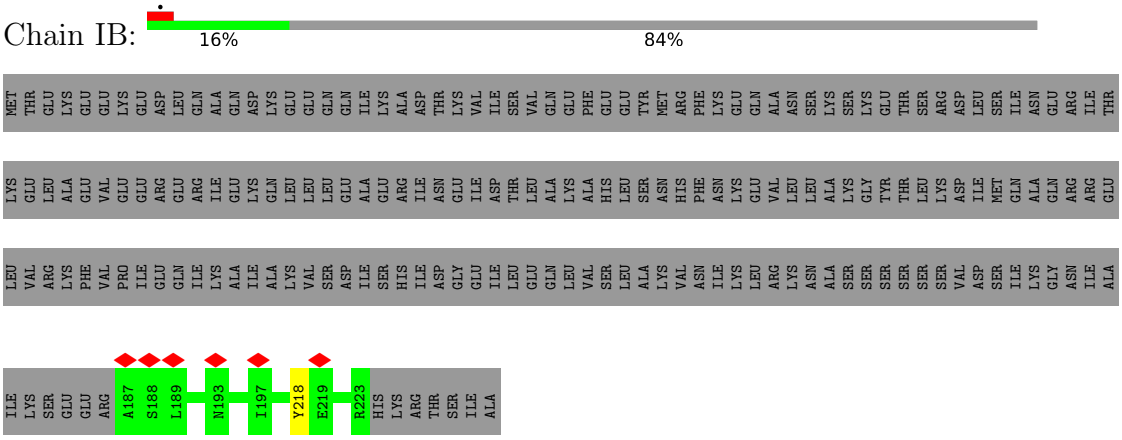






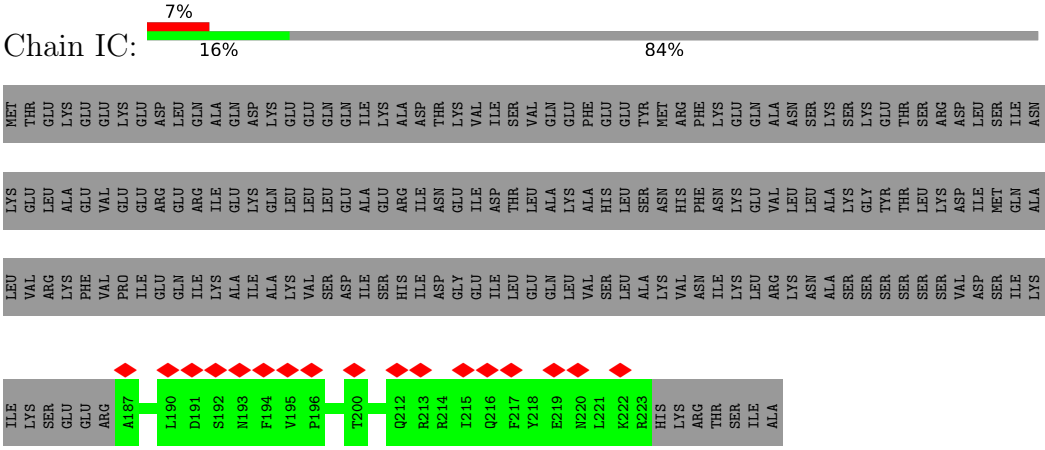
• Molecule 5: Scaffold protein

Chain IB:



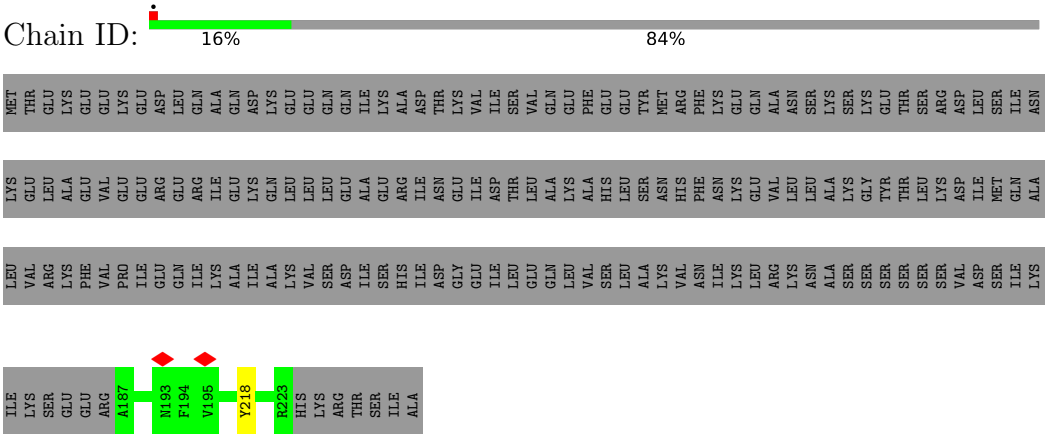
• Molecule 5: Scaffold protein

Chain IC:



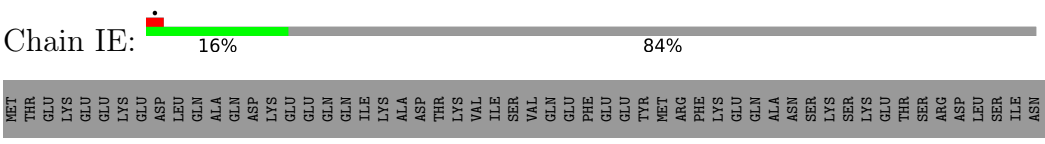
• Molecule 5: Scaffold protein

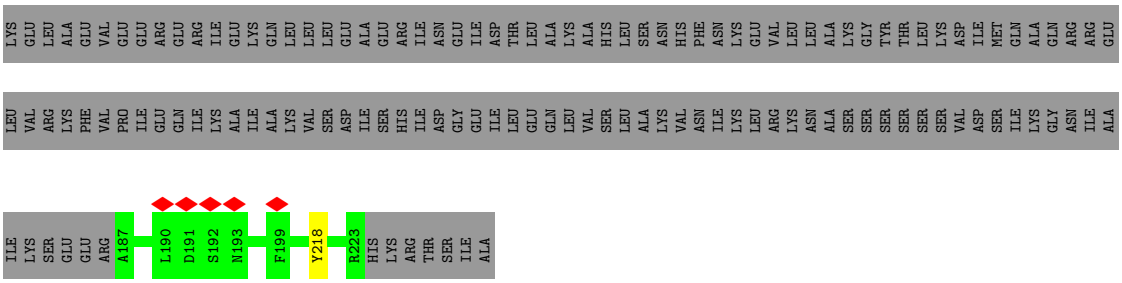
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• Molecule 5: Scaffold protein

Chain IE:

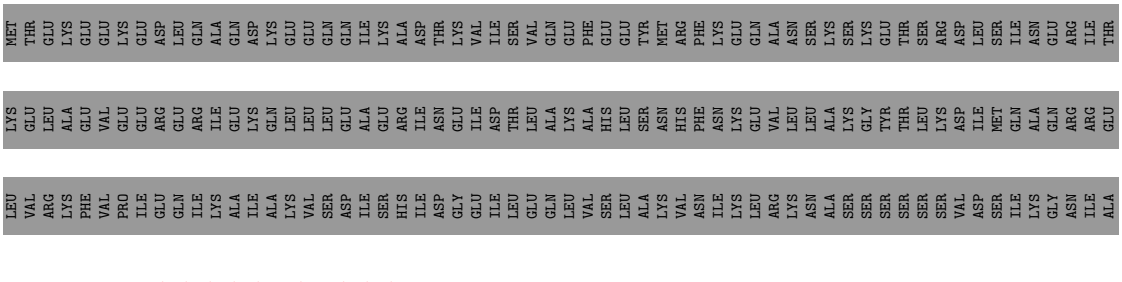




• Molecule 5: Scaffold protein

Chain IF:

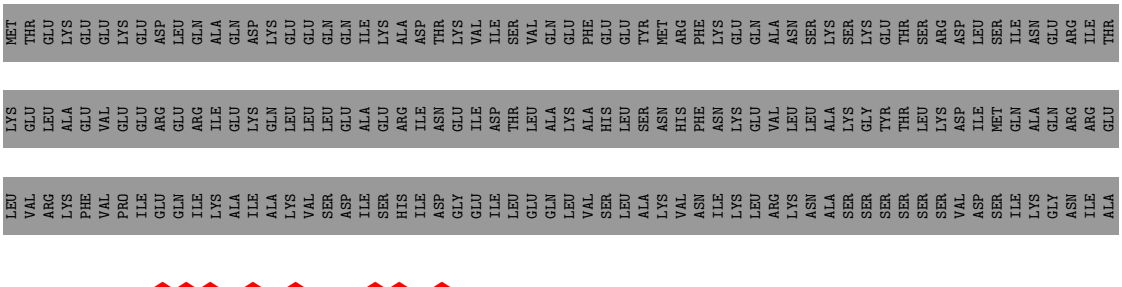




• Molecule 5: Scaffold protein

Chain IG:

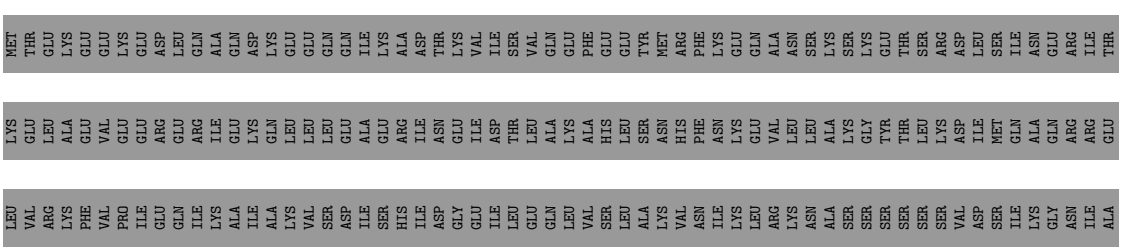


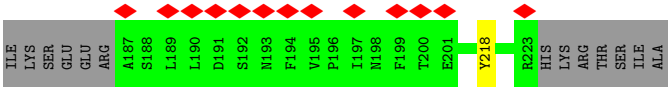


• Molecule 5: Scaffold protein

Chain IH:



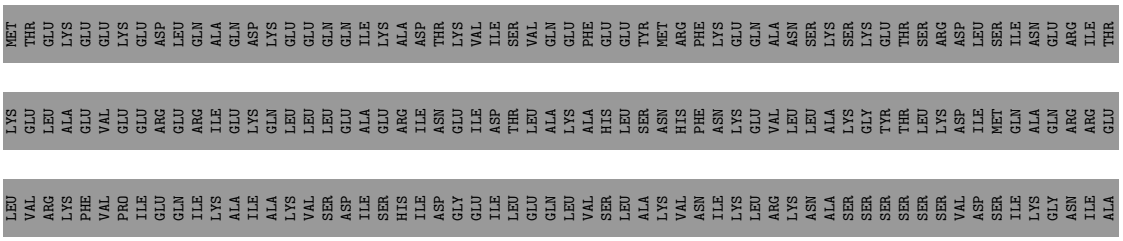


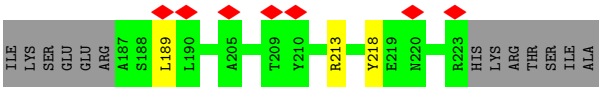


• Molecule 5: Scaffold protein

Chain II:





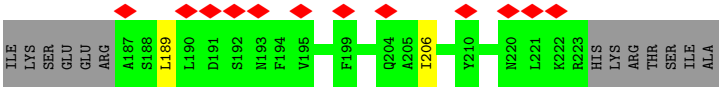


• Molecule 5: Scaffold protein

Chain IJ:



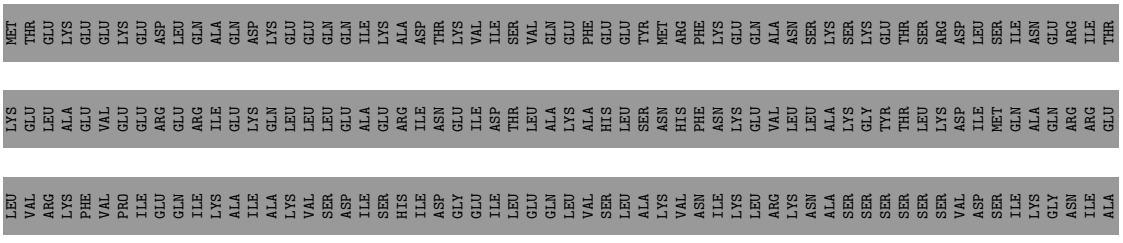


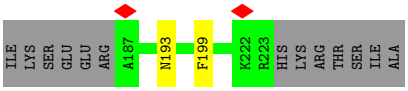


• Molecule 5: Scaffold protein

Chain IK:

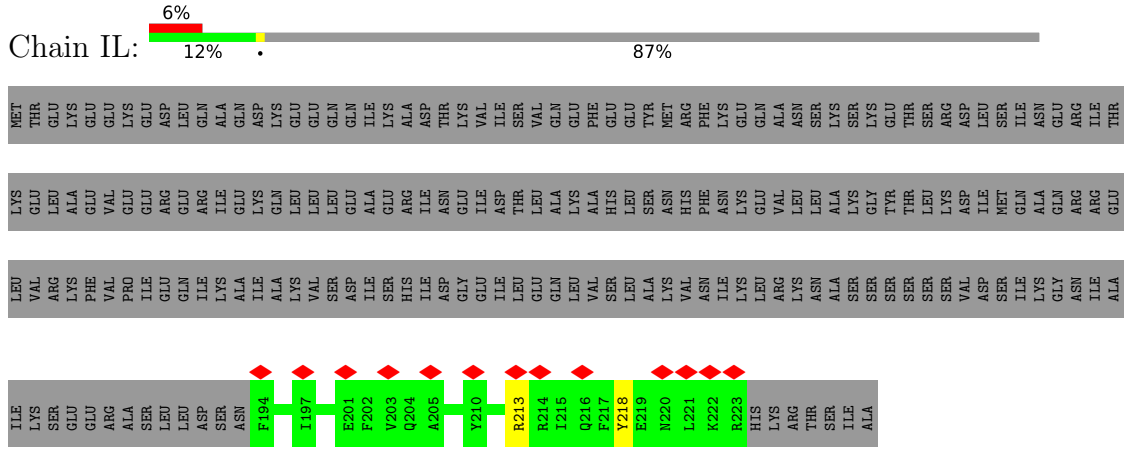






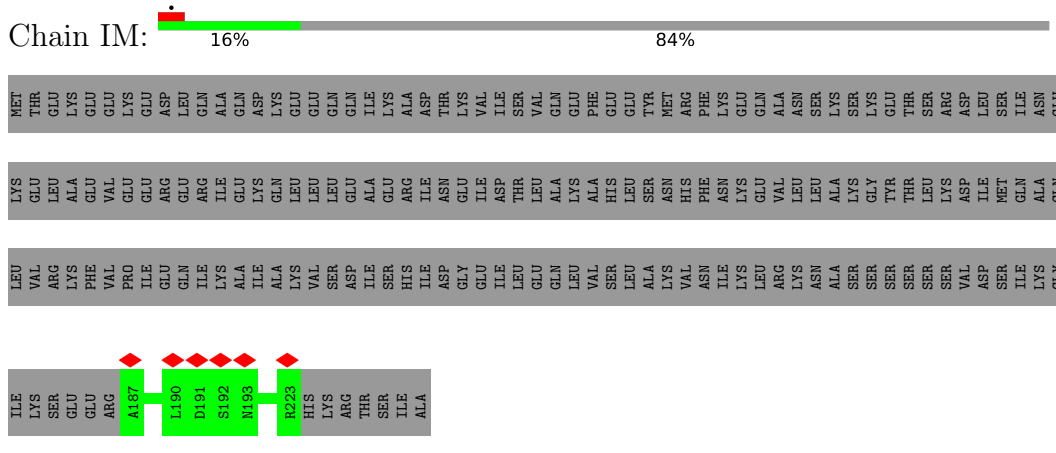
• Molecule 5: Scaffold protein

Chain IL:



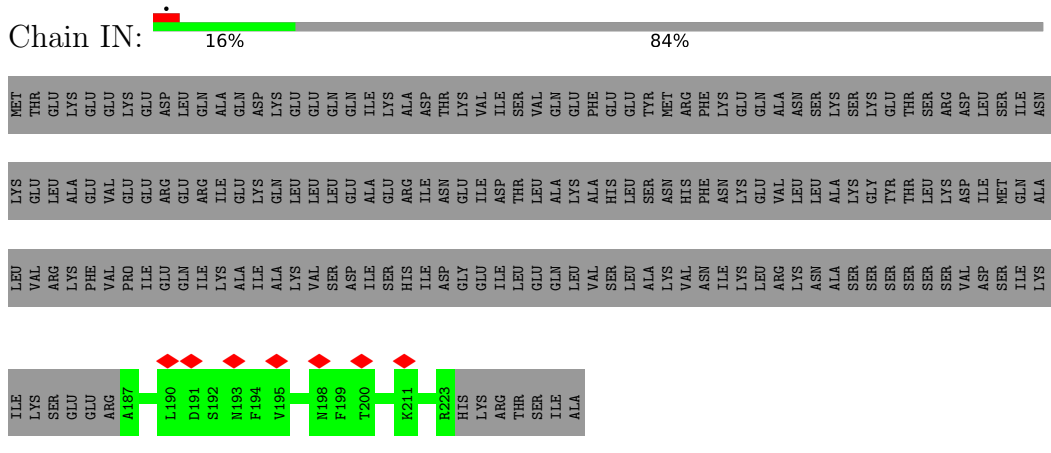
• Molecule 5: Scaffold protein

Chain IM:



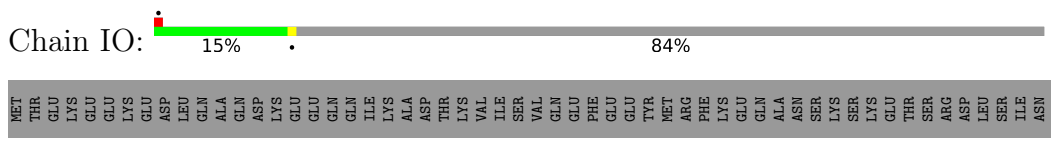
• Molecule 5: Scaffold protein

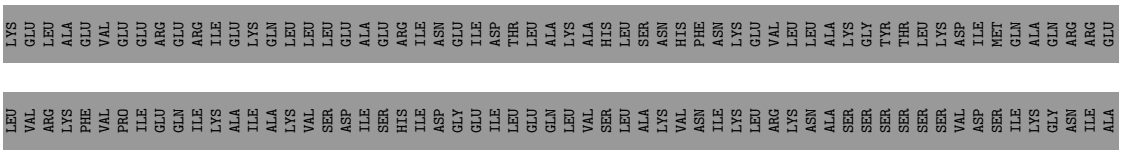
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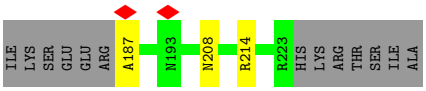


• Molecule 5: Scaffold protein

Chain IO:



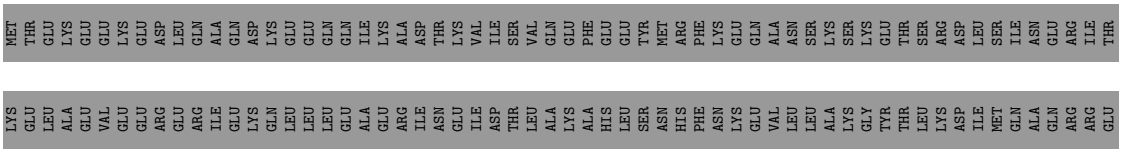


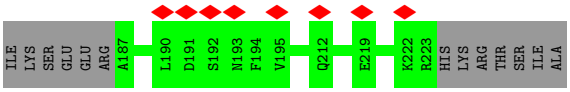


• Molecule 5: Scaffold protein

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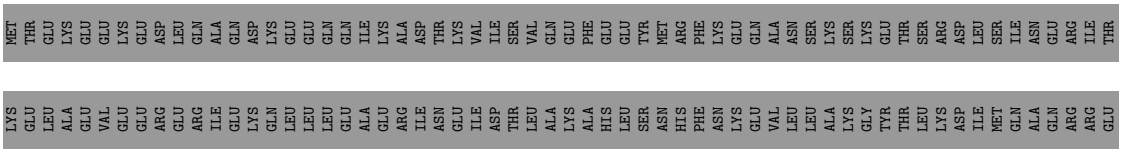


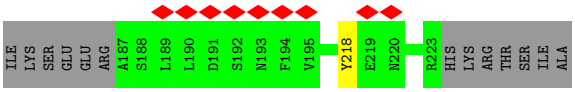


• Molecule 5: Scaffold protein

Chain IQ:



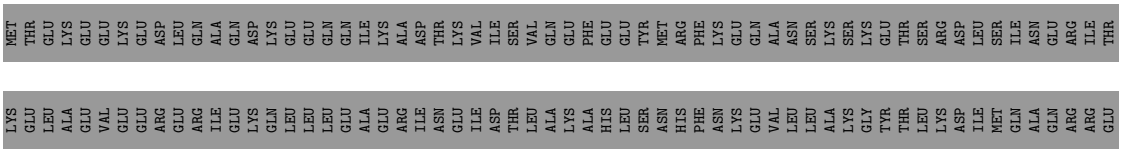


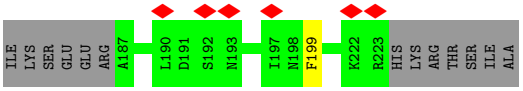


• Molecule 5: Scaffold protein

Chain IR:



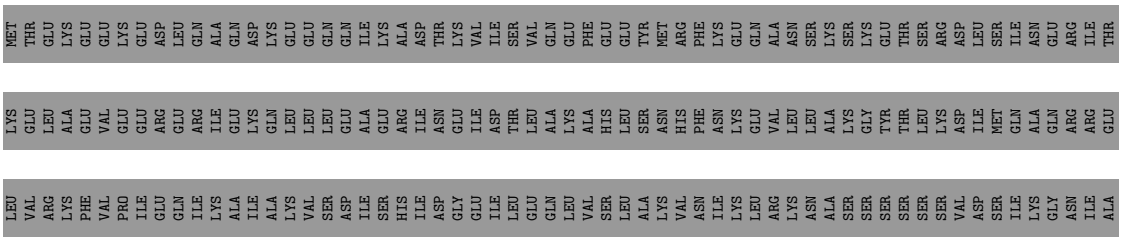


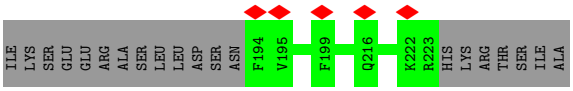


• Molecule 5: Scaffold protein

Chain IS:





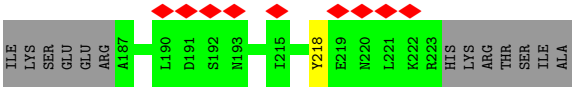


• Molecule 5: Scaffold protein

Chain IT:





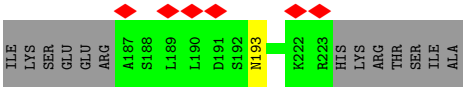


• Molecule 5: Scaffold protein

Chain IU:

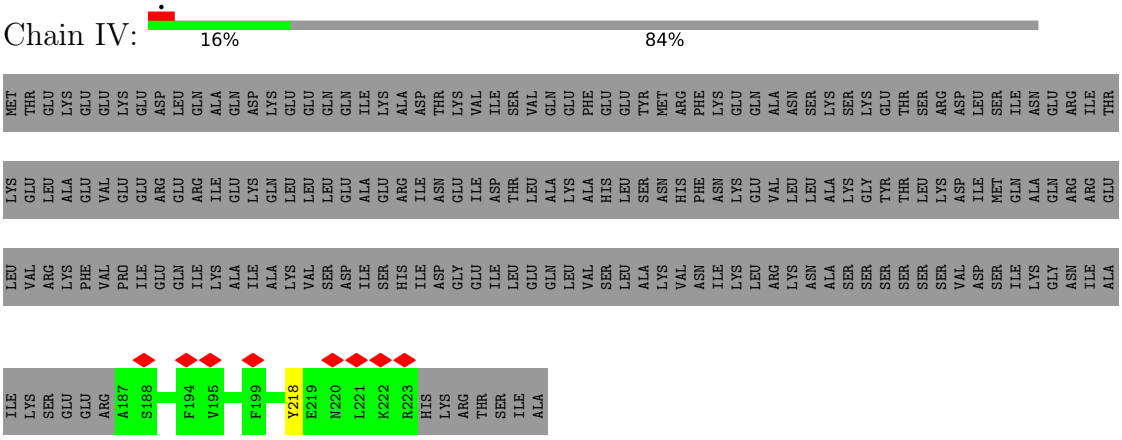






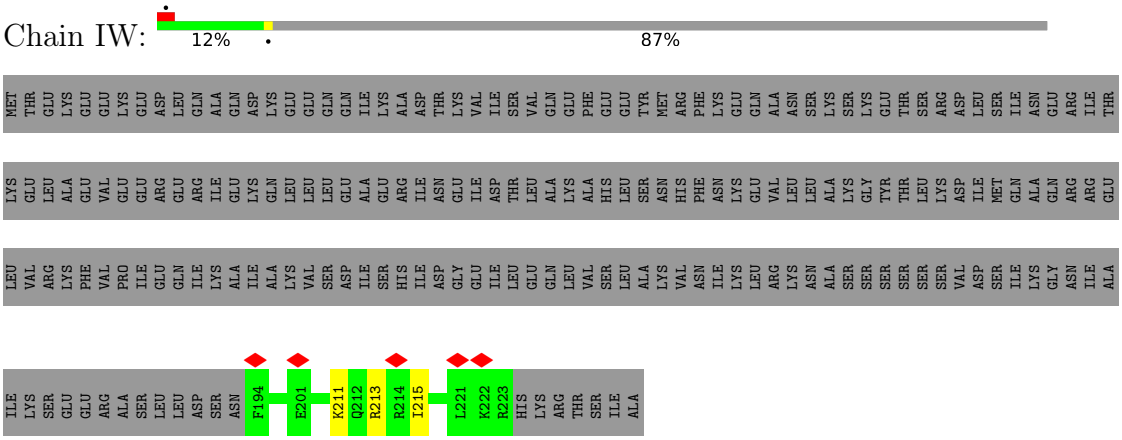
• Molecule 5: Scaffold protein

Chain IV:



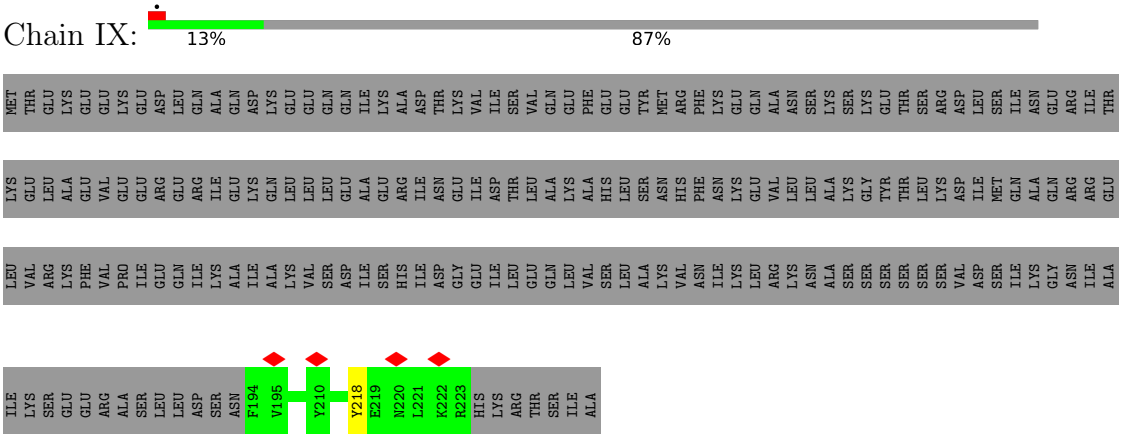
• Molecule 5: Scaffold protein

Chain IW:



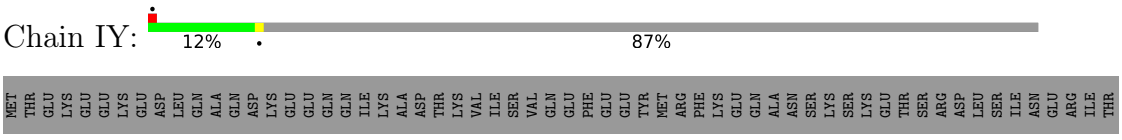
• Molecule 5: Scaffold protein

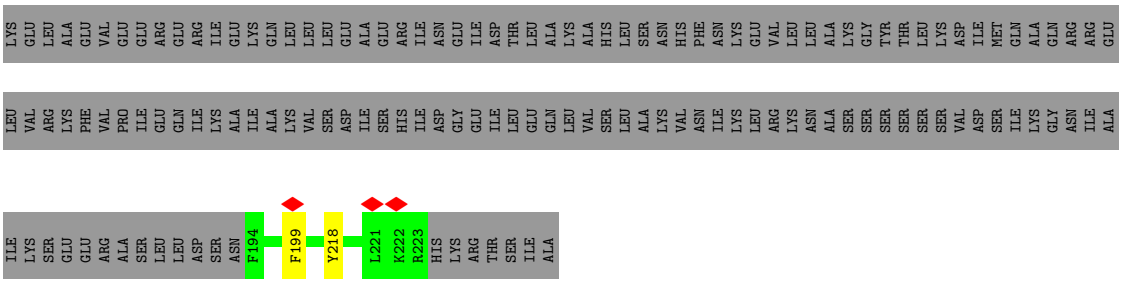
Chain IX:



• Molecule 5: Scaffold protein

Chain IY:

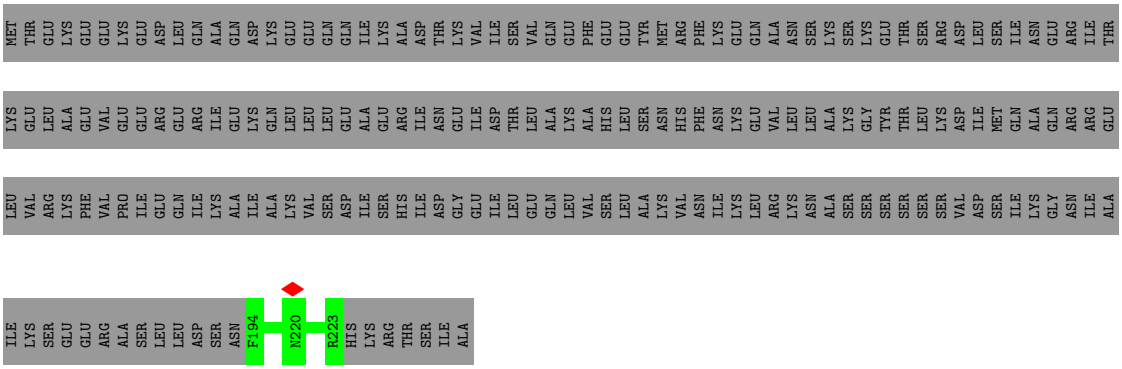




• Molecule 5: Scaffold protein

Chain IZ:

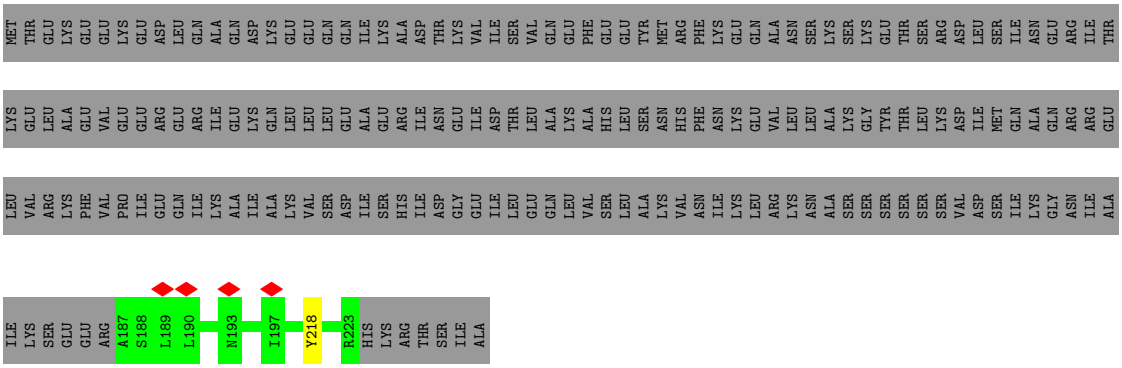




• Molecule 5: Scaffold protein

Chain Ia:

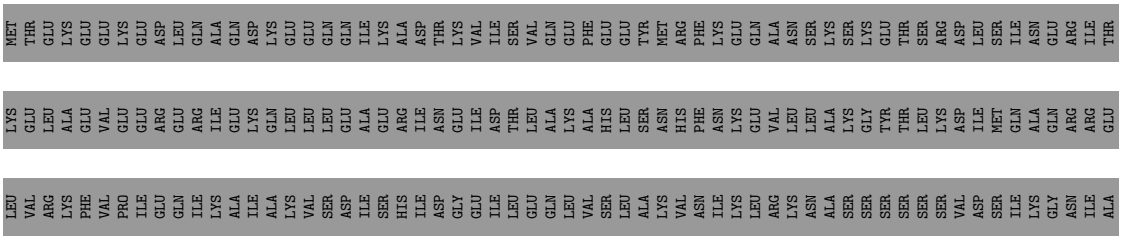




• Molecule 5: Scaffold protein

Chain Ib:





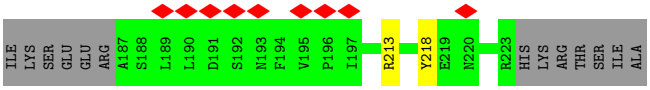


• Molecule 5: Scaffold protein

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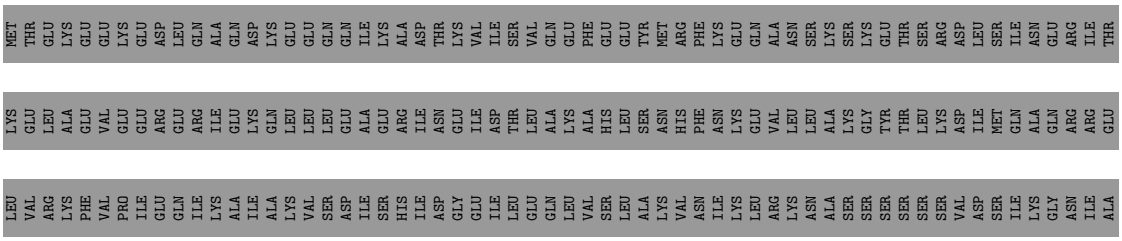


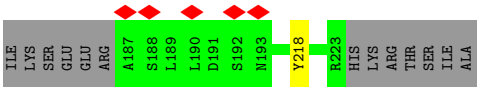


• Molecule 5: Scaffold protein

Chain Id:



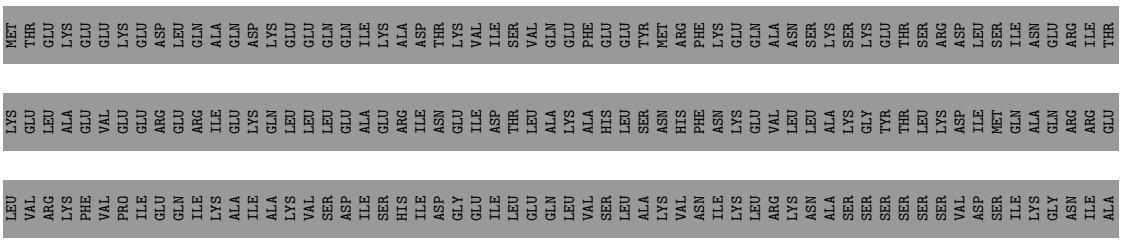


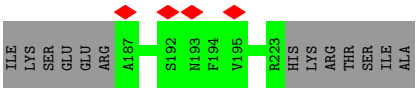


• Molecule 5: Scaffold protein

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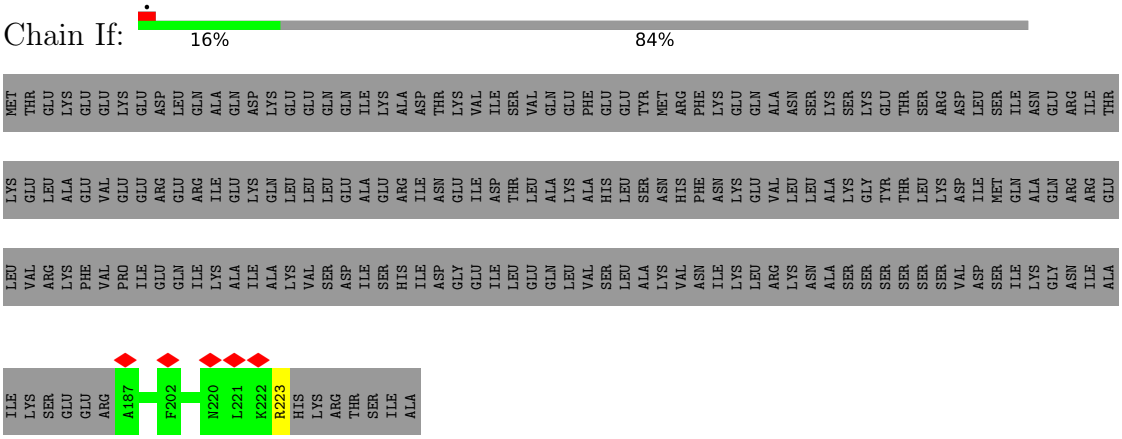






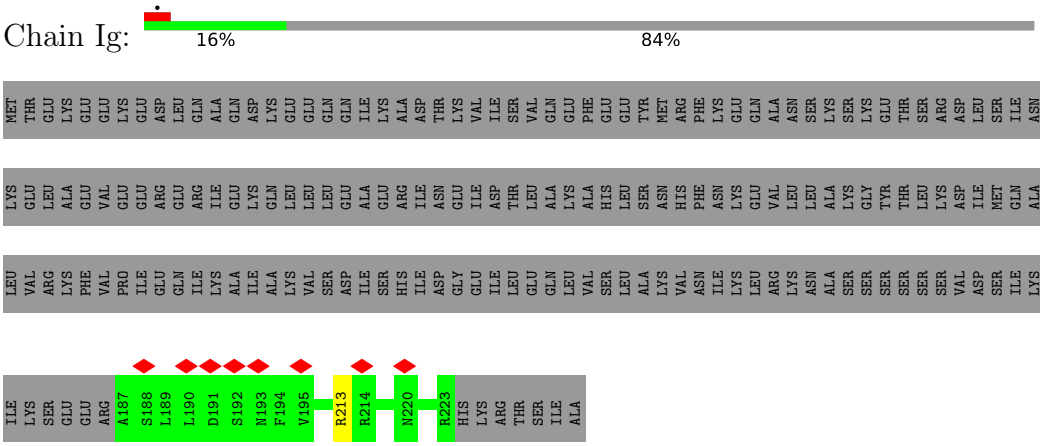
• Molecule 5: Scaffold protein

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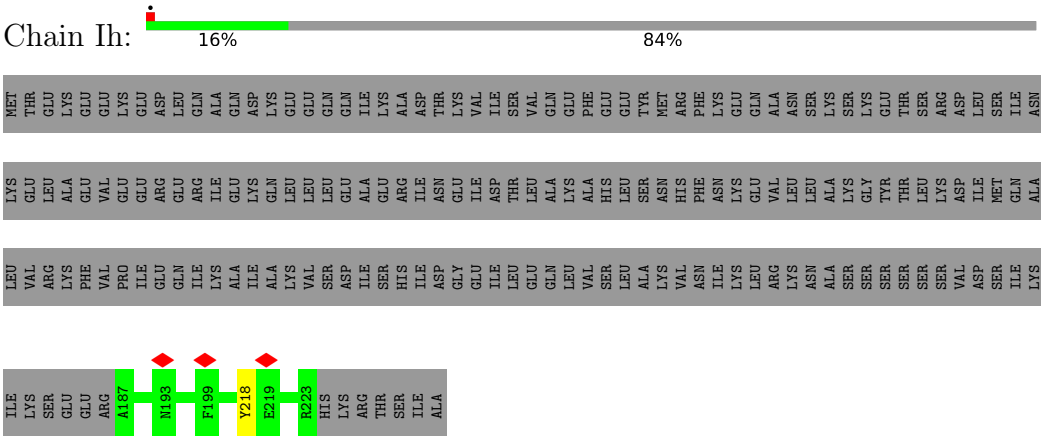
• Molecule 5: Scaffold protein

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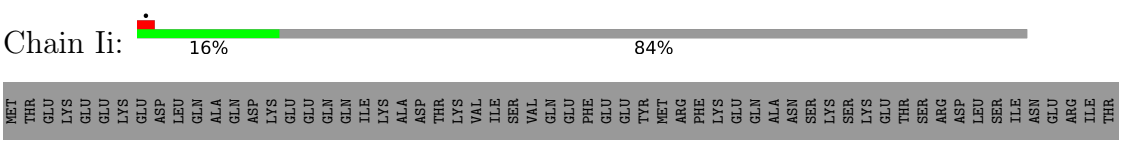
• Molecule 5: Scaffold protein

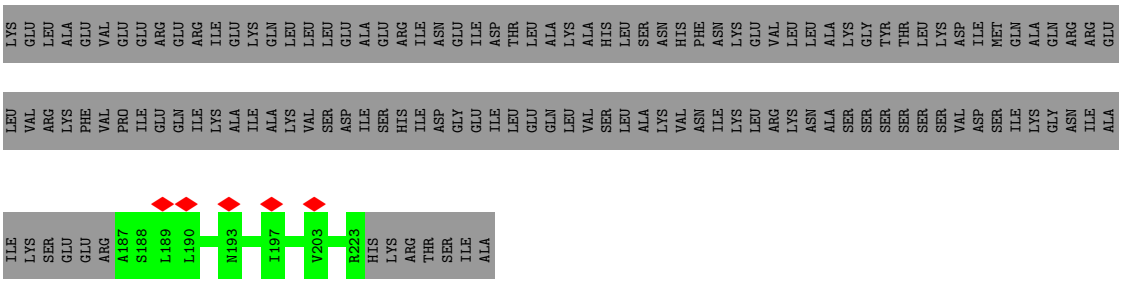
Chain Ih:



• Molecule 5: Scaffold protein

Chain Ii:

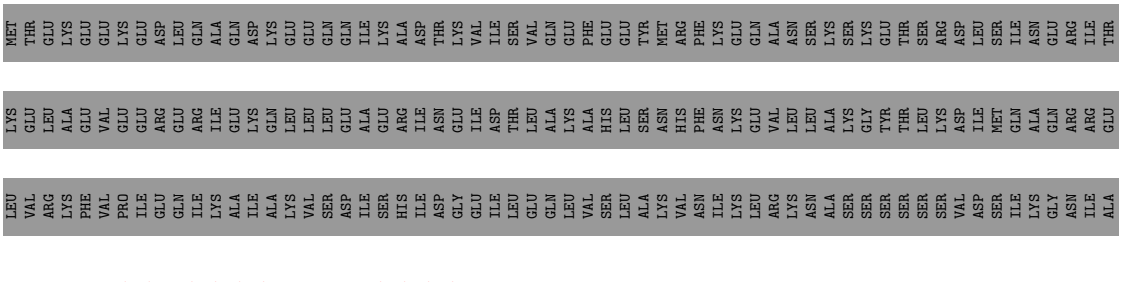


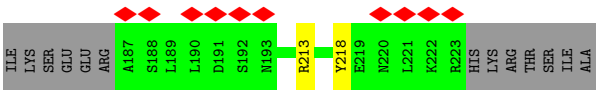


• Molecule 5: Scaffold protein

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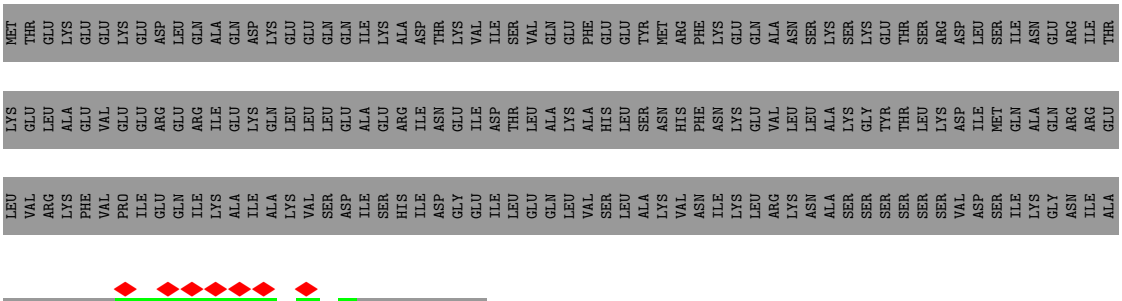


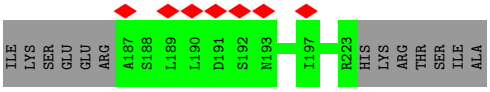


• Molecule 5: Scaffold protein

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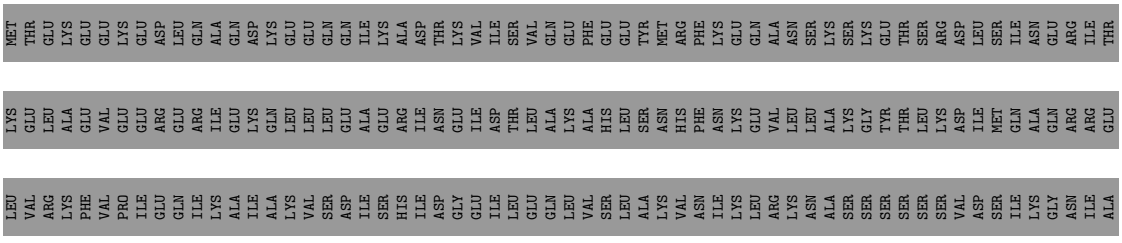




• Molecule 5: Scaffold protein

Chain Il:



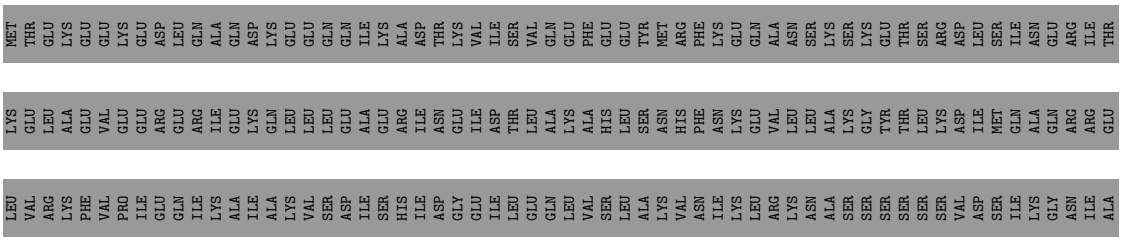


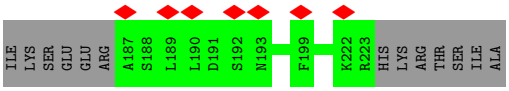


• Molecule 5: Scaffold protein

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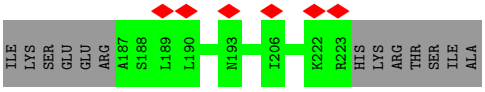


• Molecule 5: Scaffold protein

Chain In:





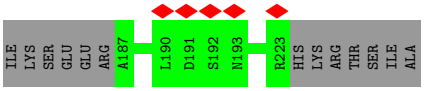


• Molecule 5: Scaffold protein

Chain Io:

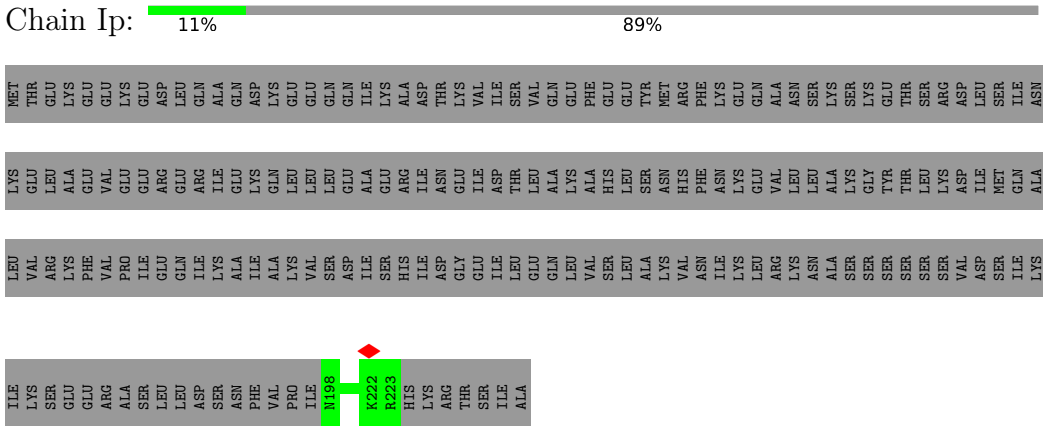






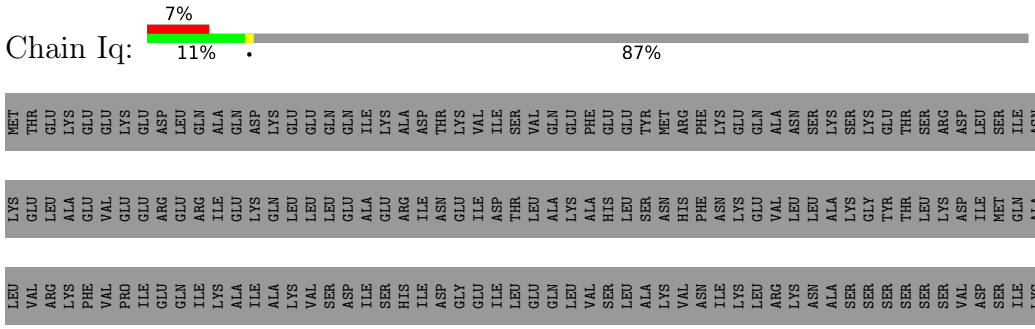
• Molecule 5: Scaffold protein

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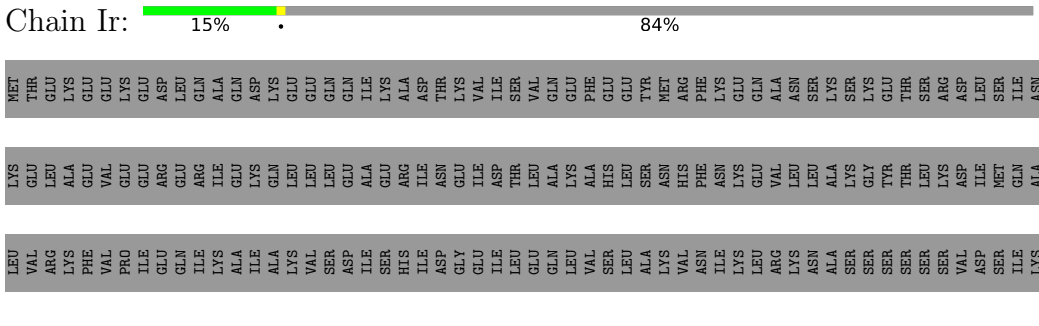
• Molecule 5: Scaffold protein

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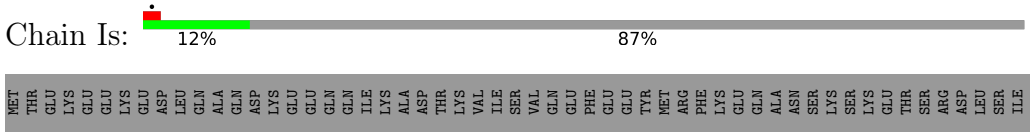
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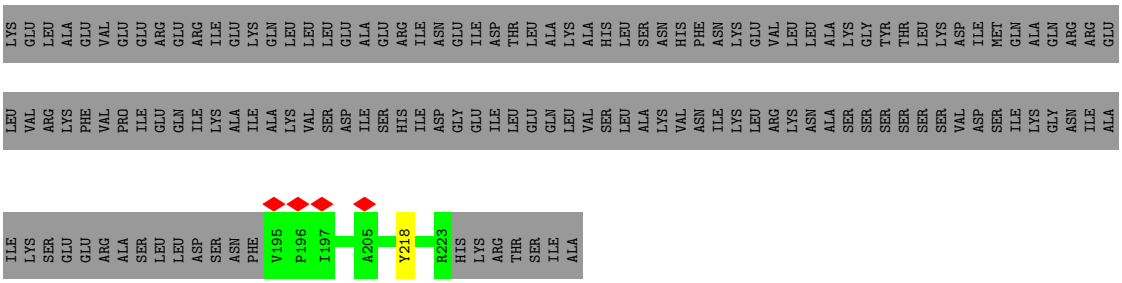
Chain Ir:



• Molecule 5: Scaffold protein

Chain Is:





• Molecule 5: Scaffold protein

Chain It:





• Molecule 5: Scaffold protein

Chain Iu:



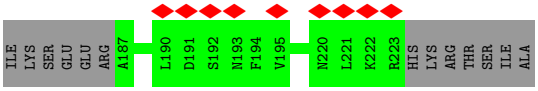


• Molecule 5: Scaffold protein

Chain Iv:



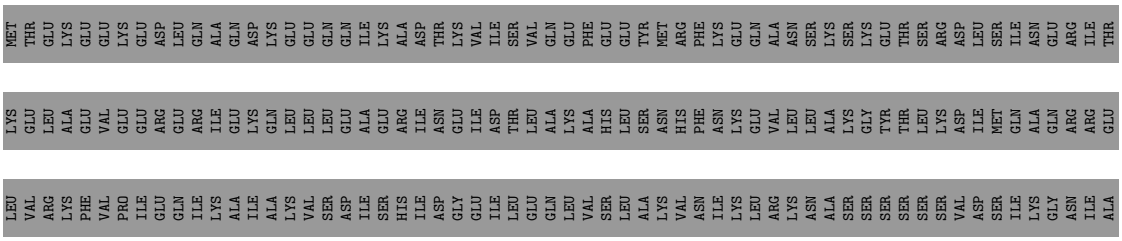


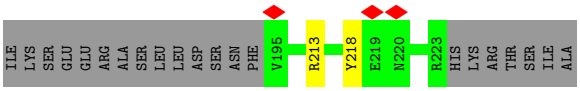


• Molecule 5: Scaffold protein

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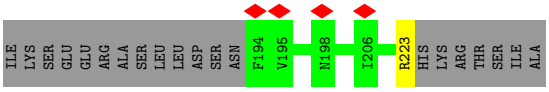


• Molecule 5: Scaffold protein

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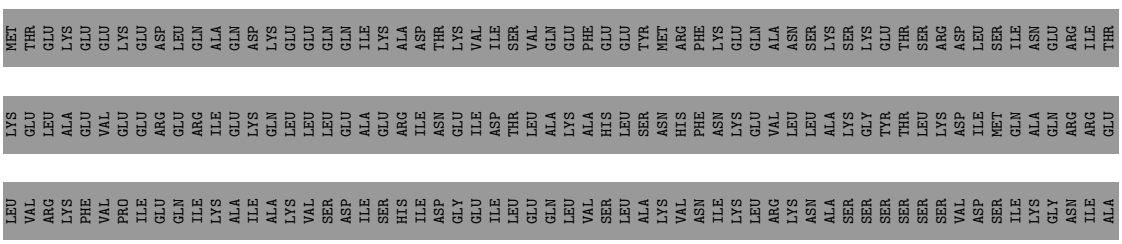


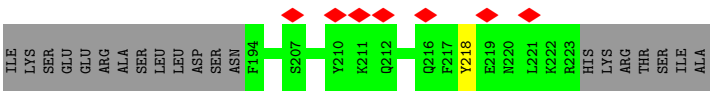


• Molecule 5: Scaffold protein

Chain Iy:

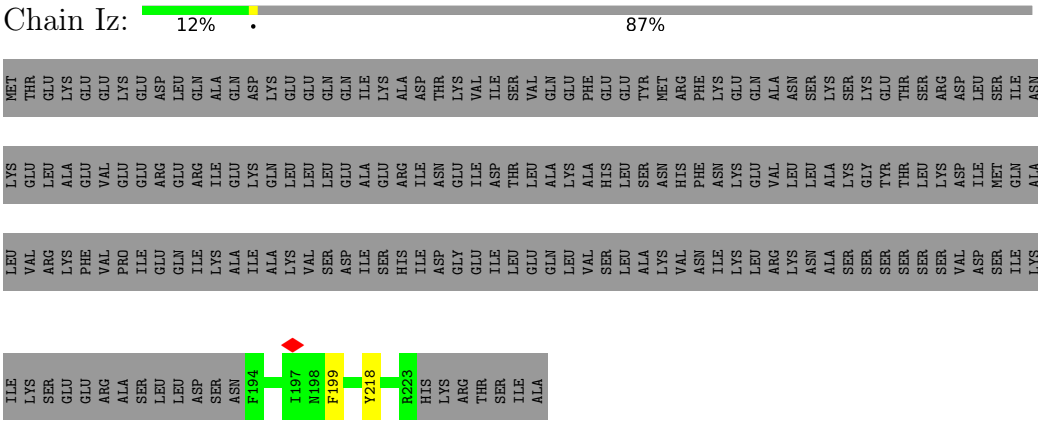






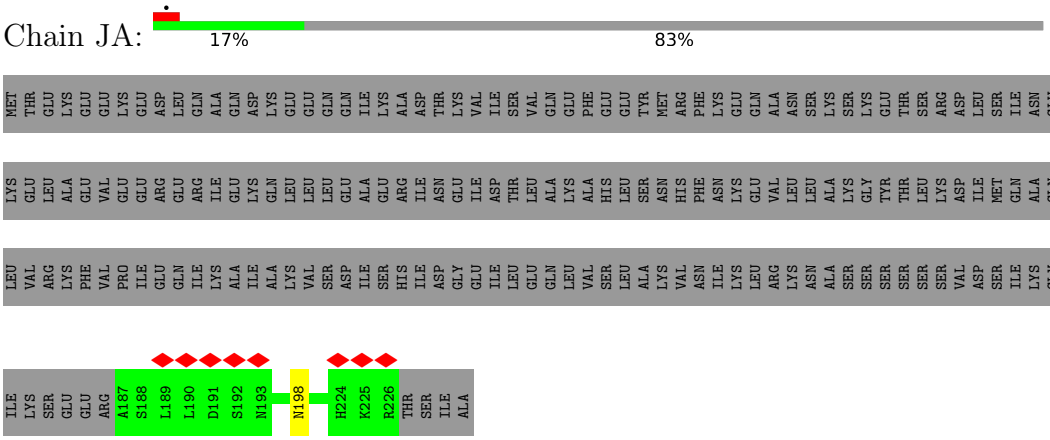
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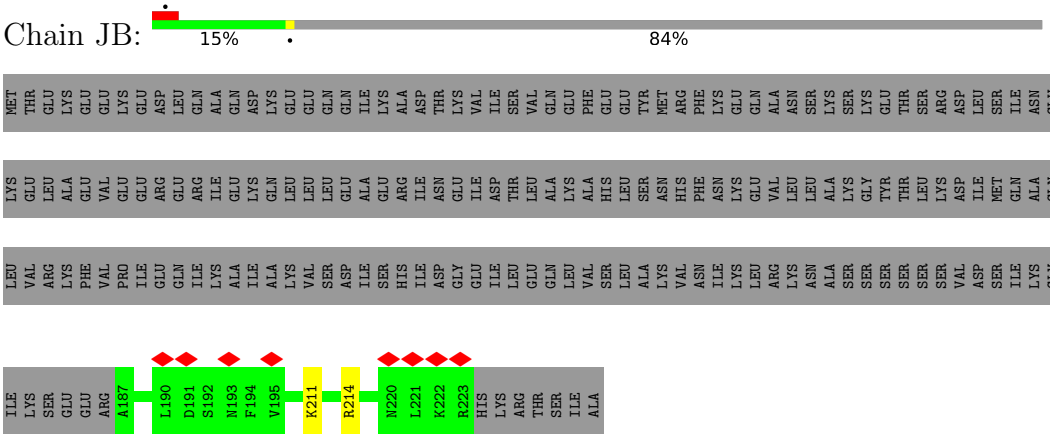
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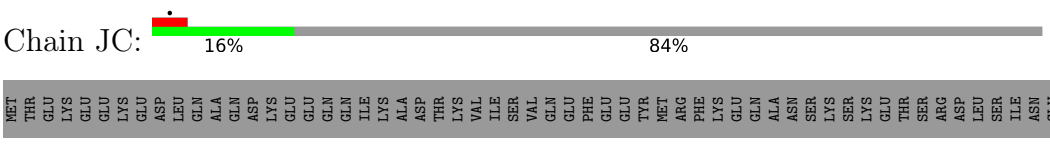
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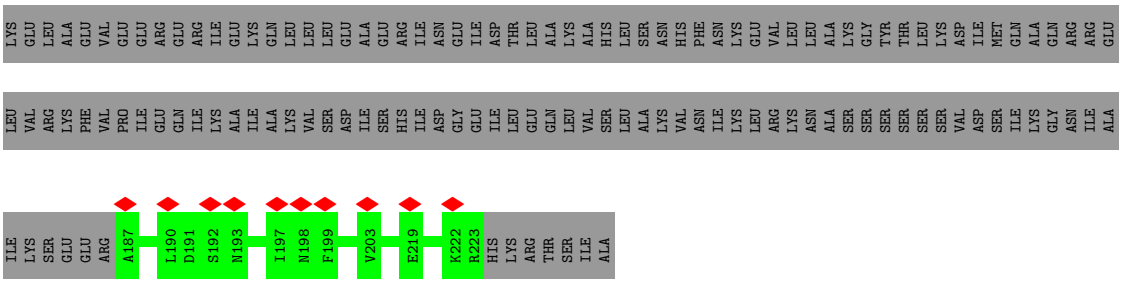
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• Molecule 5: Scaffold protein

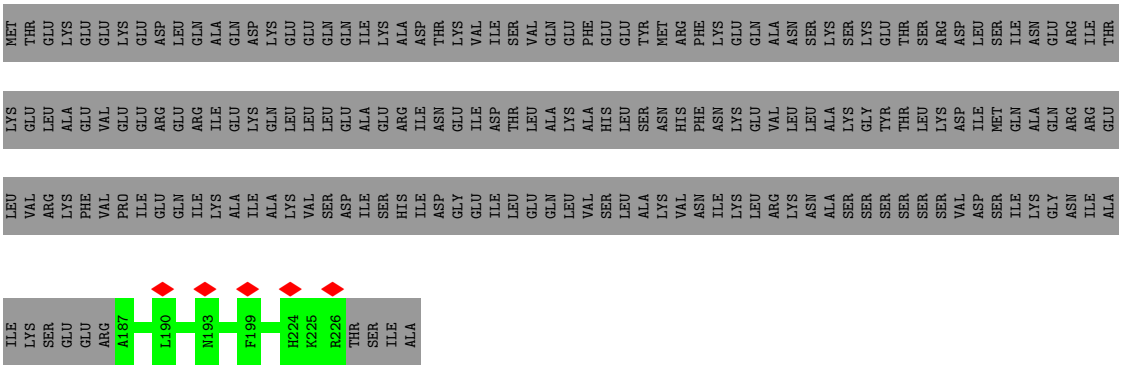
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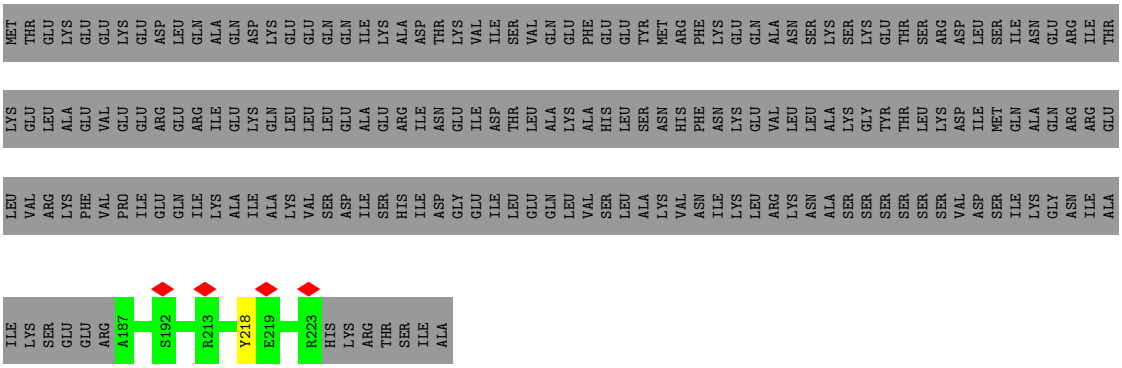
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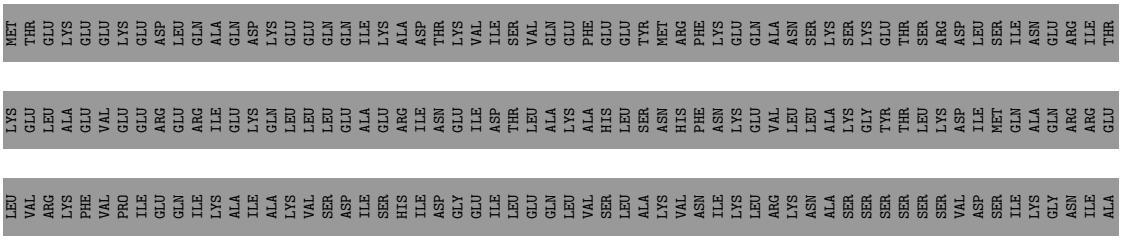
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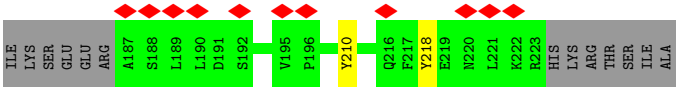




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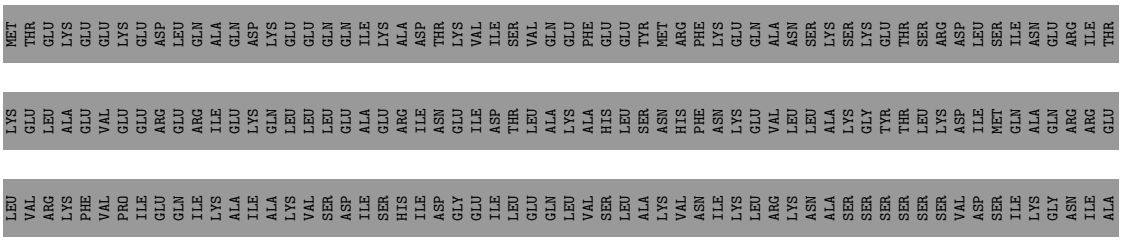


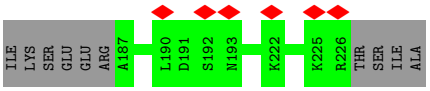


• Molecule 5: Scaffold protein

Chain JG:



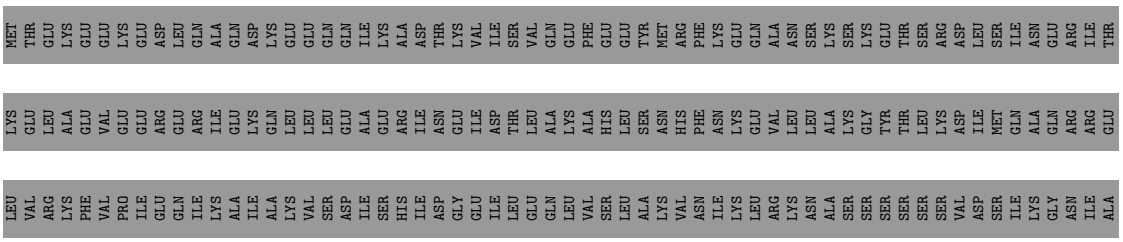


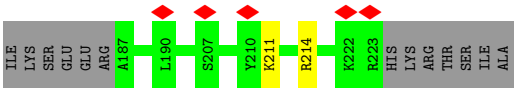


• Molecule 5: Scaffold protein

Chain JH:





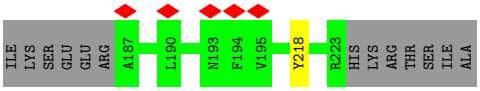


• Molecule 5: Scaffold protein

Chain JI:

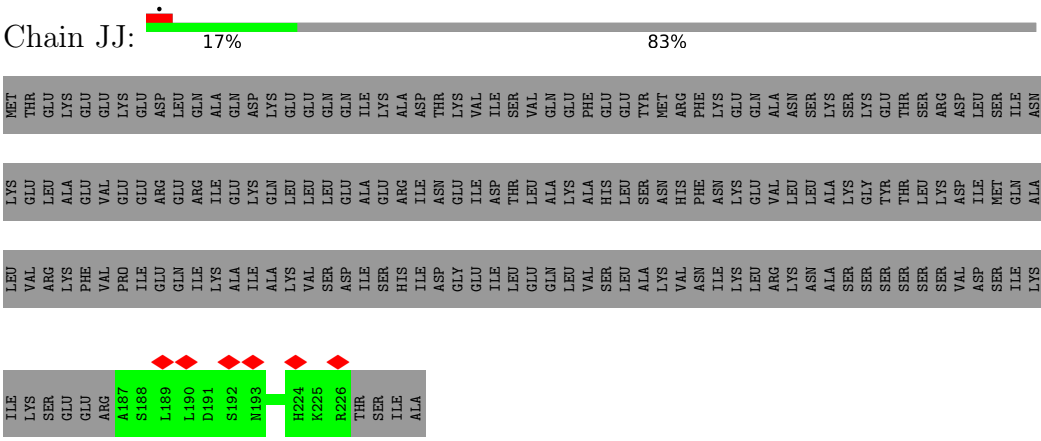






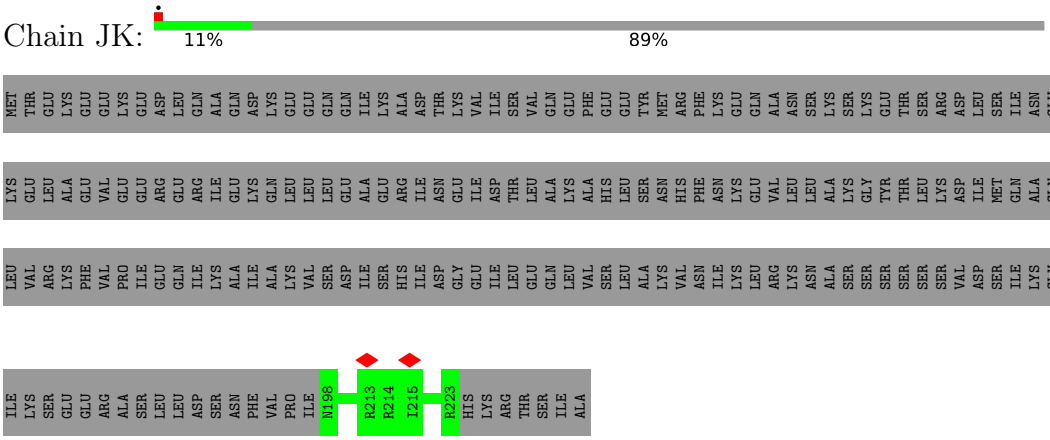
• Molecule 5: Scaffold protein

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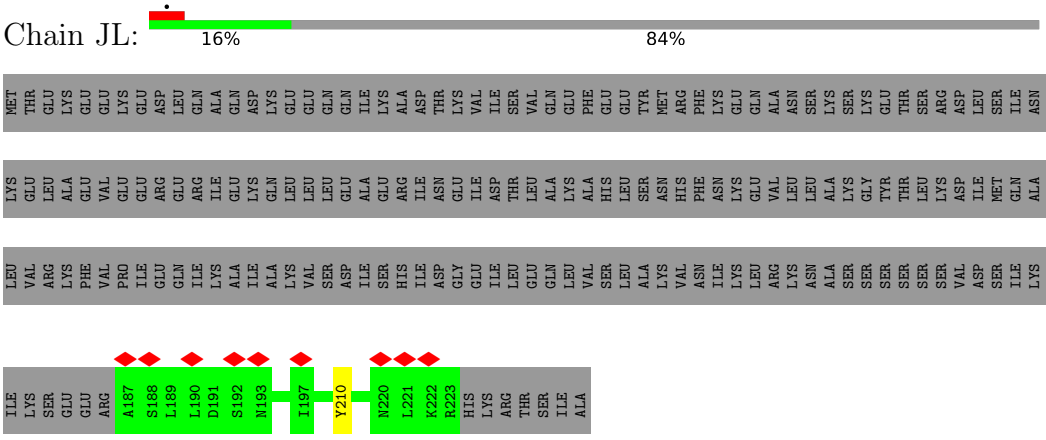
• Molecule 5: Scaffold protein

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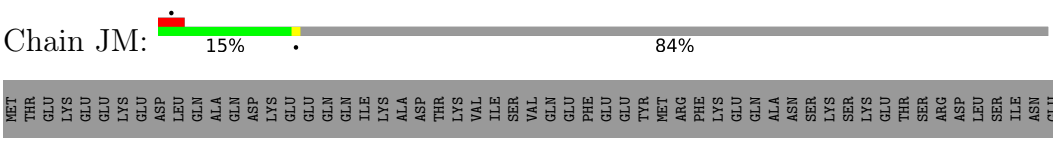
• Molecule 5: Scaffold protein

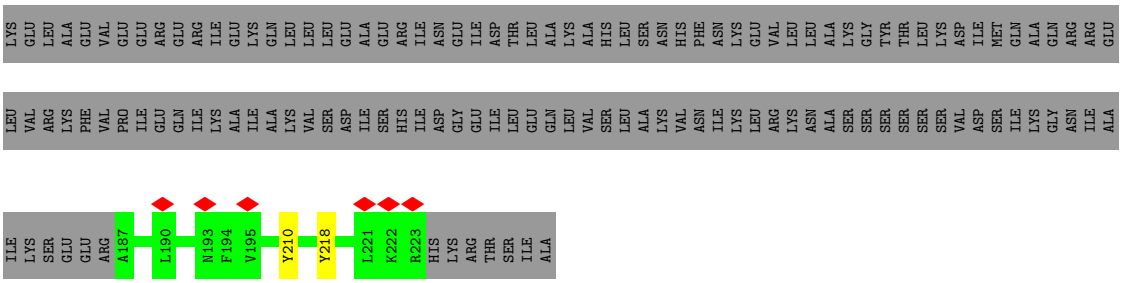
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• Molecule 5: Scaffold protein

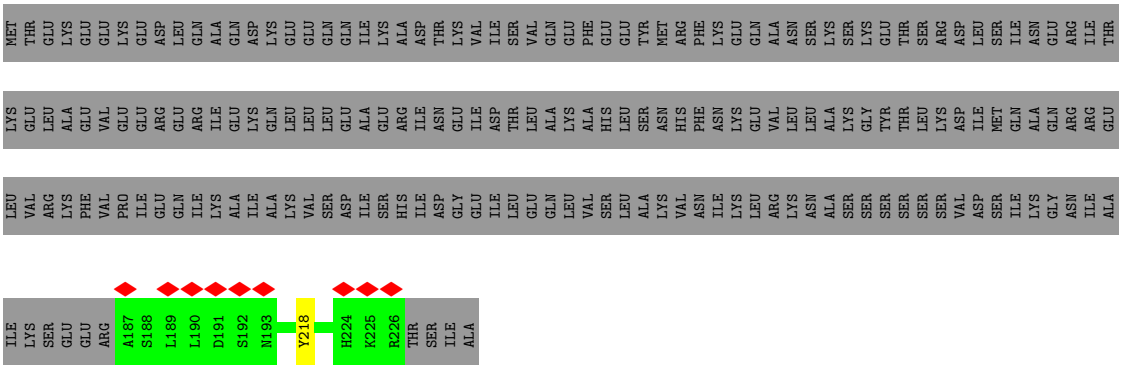
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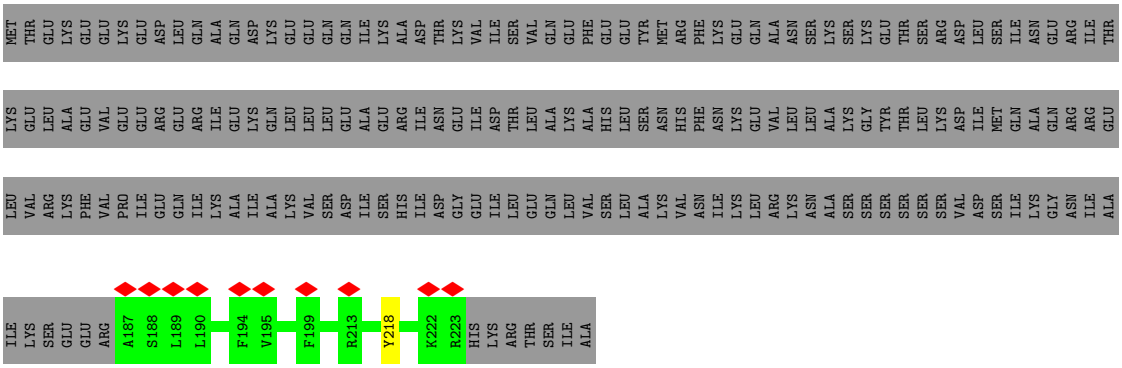
• Molecule 5: Scaffold protein





• Molecule 5: Scaffold protein

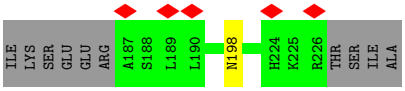




• Molecule 5: Scaffold protein





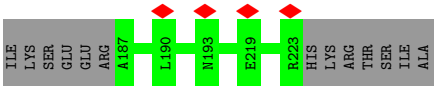


• Molecule 5: Scaffold protein

Chain JQ:





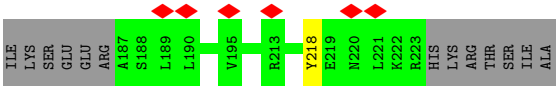


• Molecule 5: Scaffold protein

Chain JR:





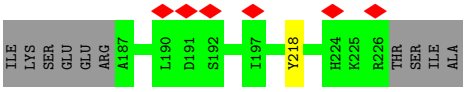


• Molecule 5: Scaffold protein

Chain JS:

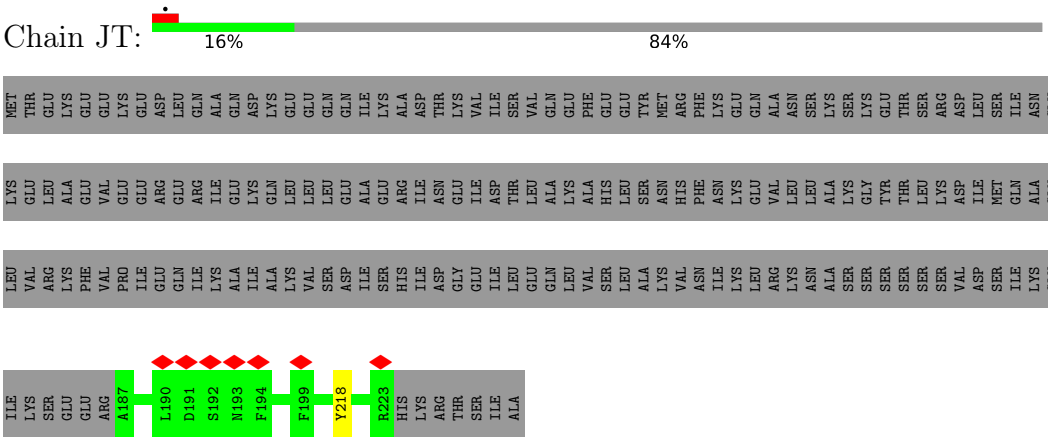






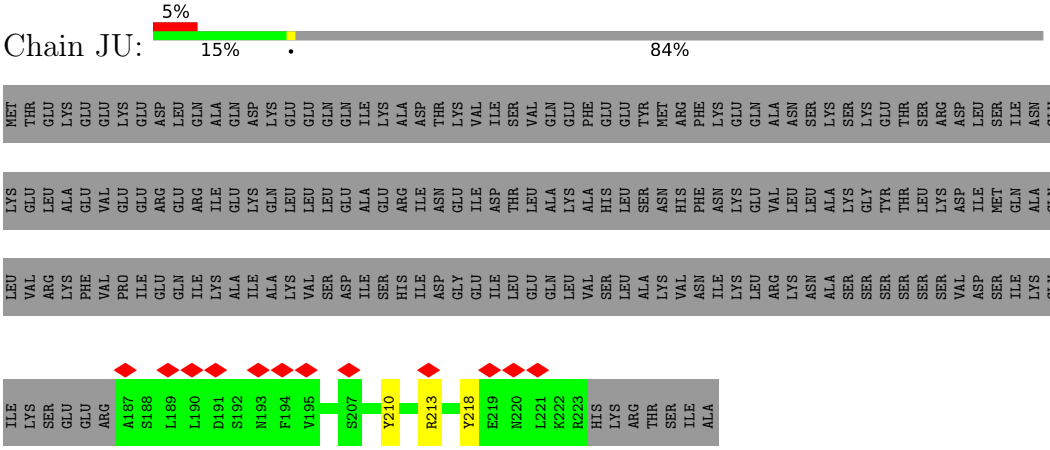
• Molecule 5: Scaffold protein

Chain JT:



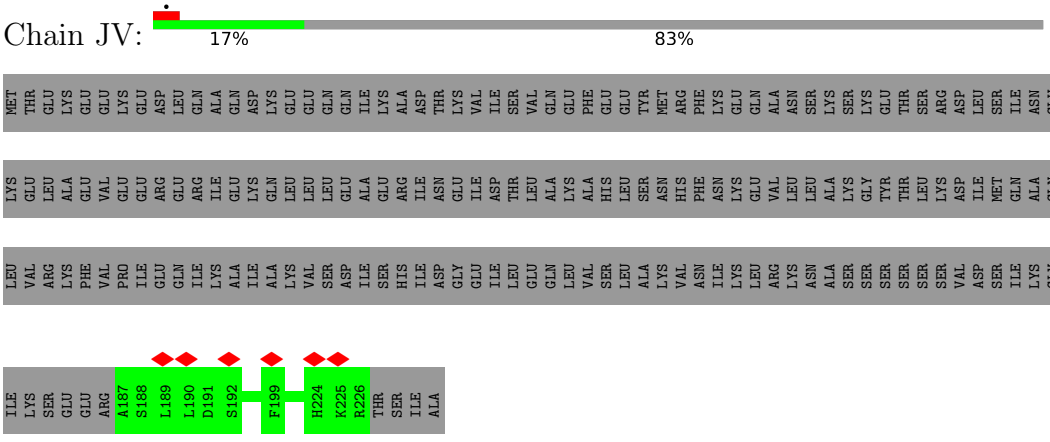
• Molecule 5: Scaffold protein

Chain JU:



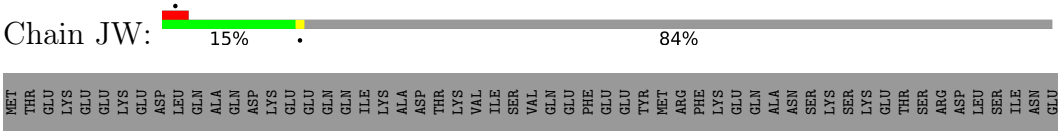
• Molecule 5: Scaffold protein

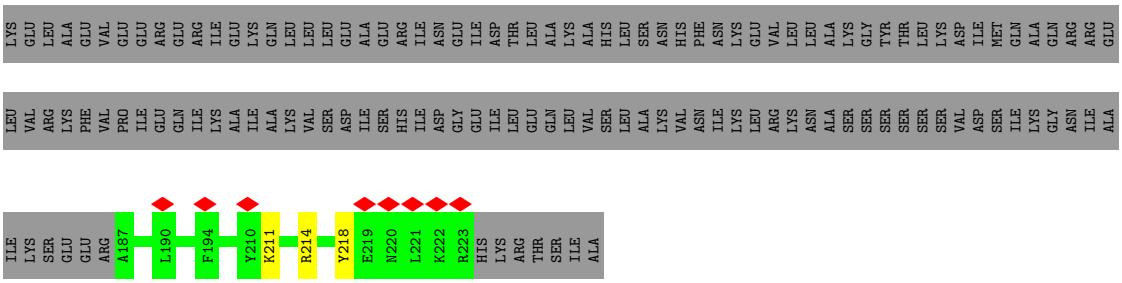
Chain JV:



• Molecule 5: Scaffold protein

Chain JW:

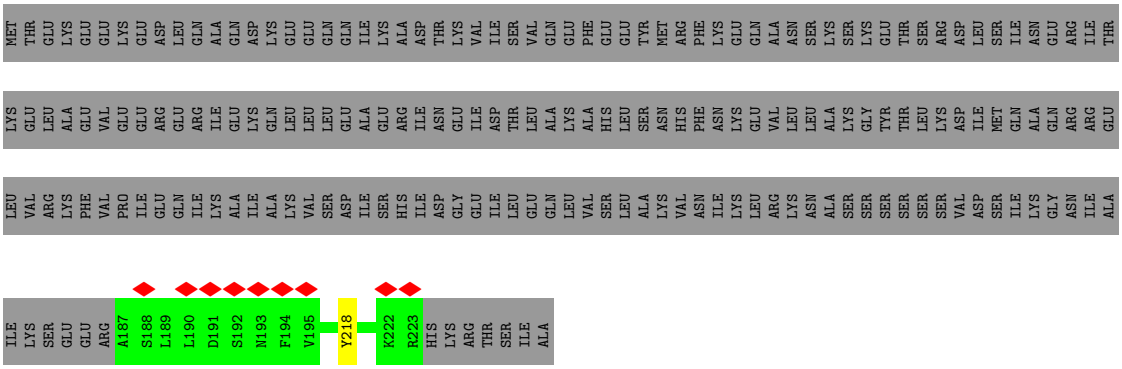




• Molecule 5: Scaffold protein

Chain JX:

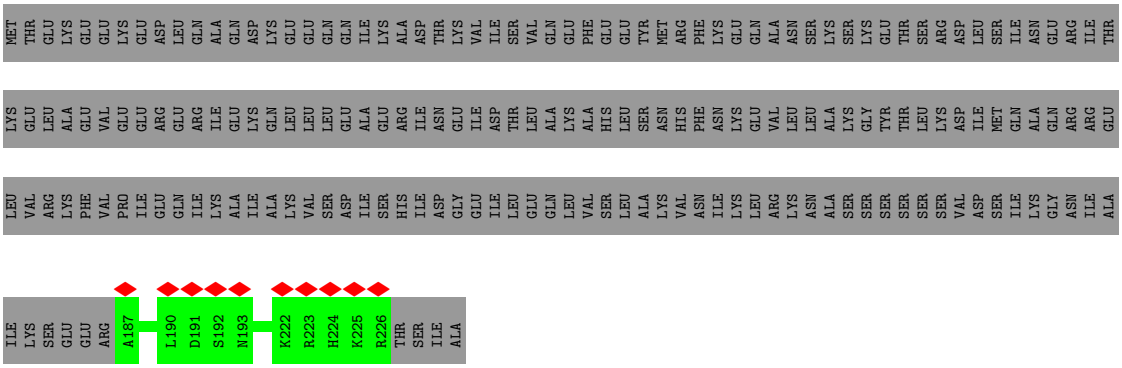




• Molecule 5: Scaffold protein

Chain JY:



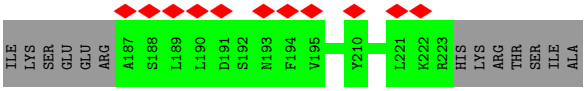


• Molecule 5: Scaffold protein

Chain JZ:



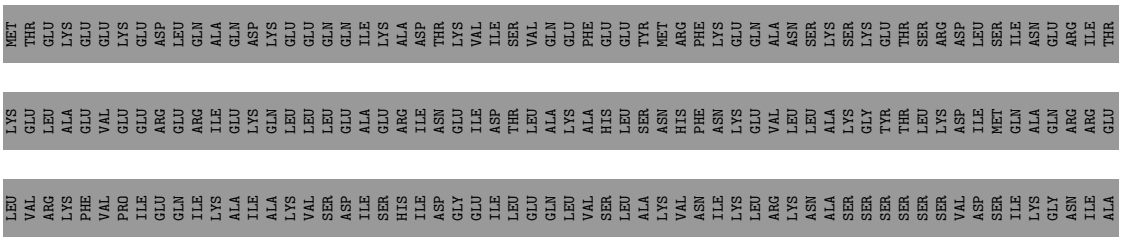


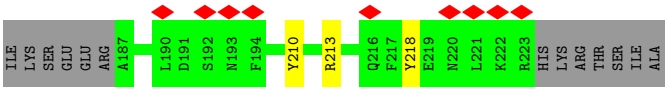


• Molecule 5: Scaffold protein

Chain Ja:



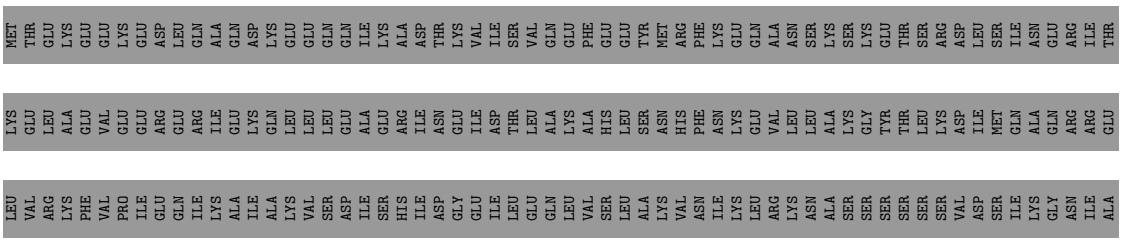


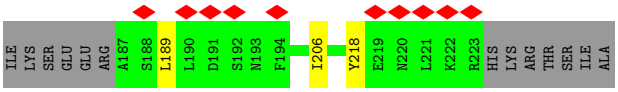


• Molecule 5: Scaffold protein

Chain Jb:





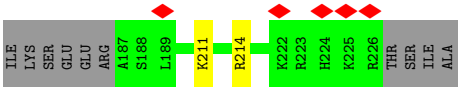


• Molecule 5: Scaffold protein

Chain Jc:

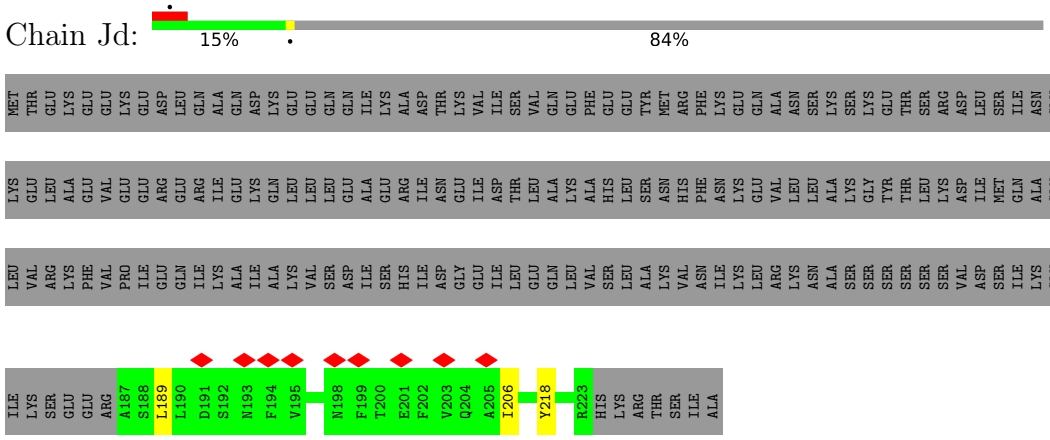






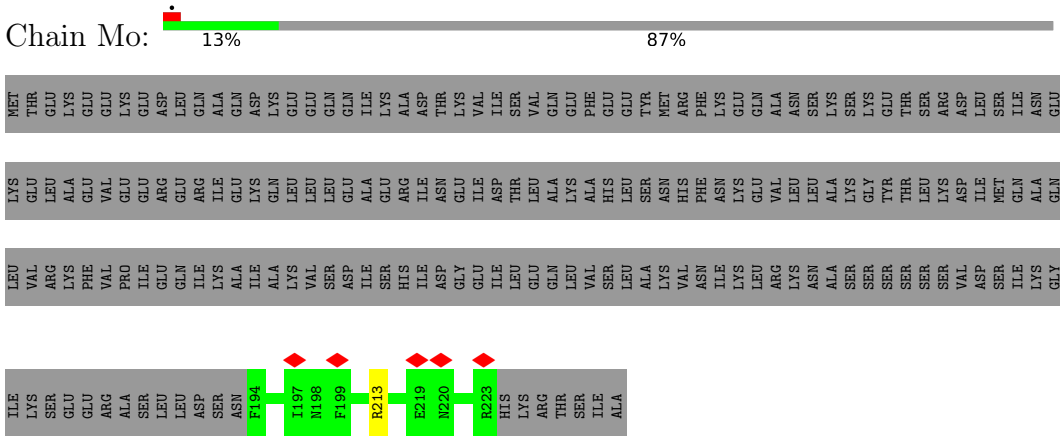
• Molecule 5: Scaffold protein

Chain Jd:



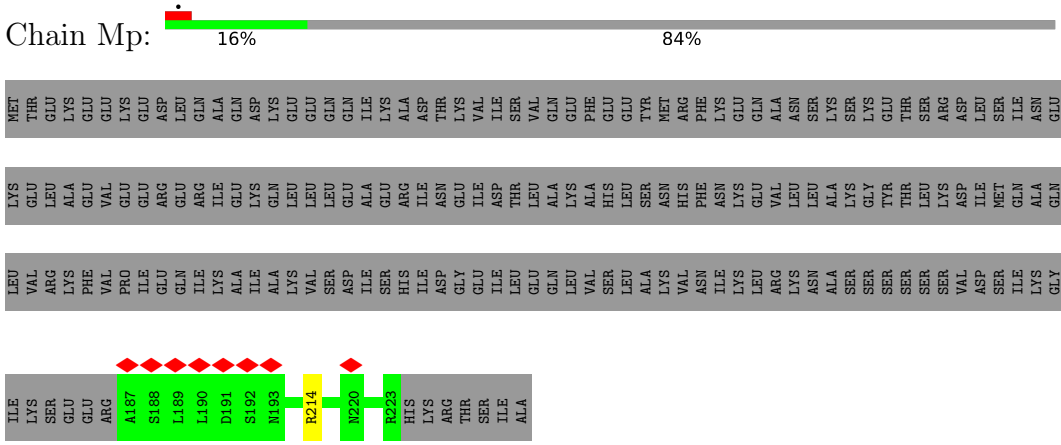
• Molecule 5: Scaffold protein

Chain Mo:



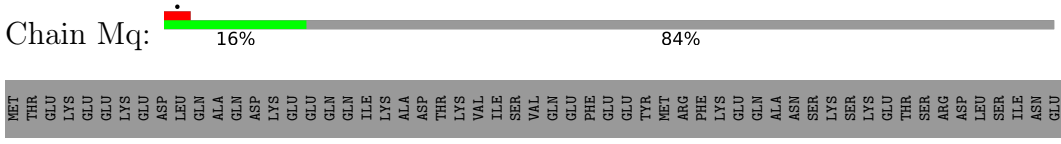
• Molecule 5: Scaffold protein

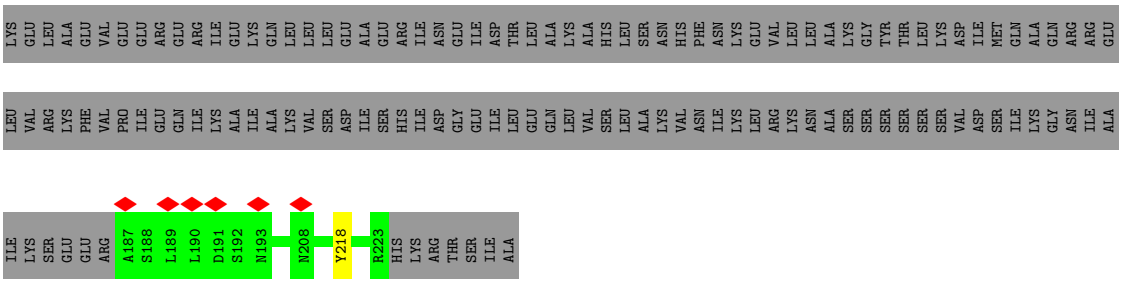
Chain Mp:



• Molecule 5: Scaffold protein

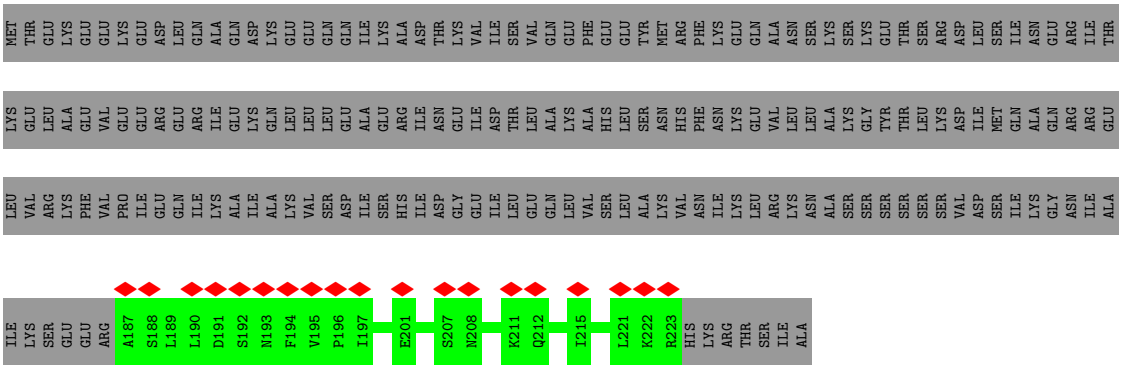
Chain Mq:





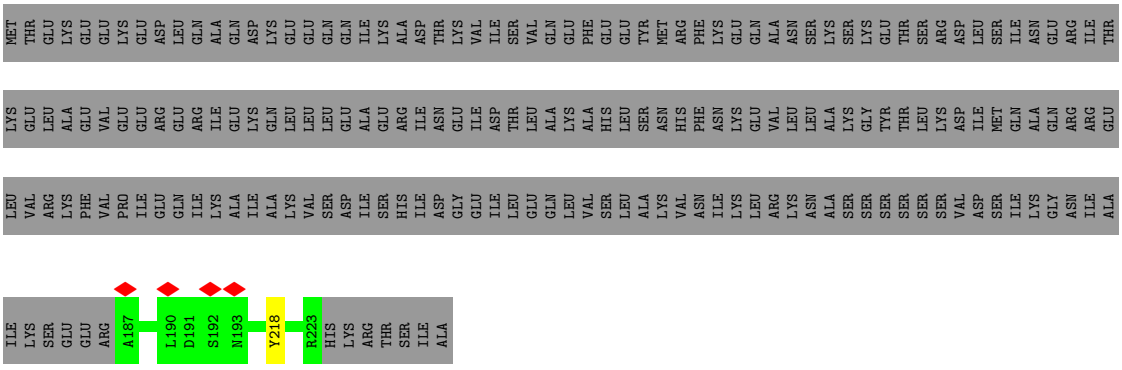
• Molecule 5: Scaffold protein





• Molecule 5: Scaffold protein

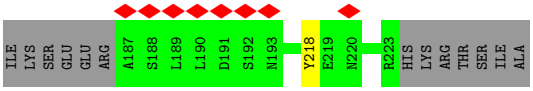




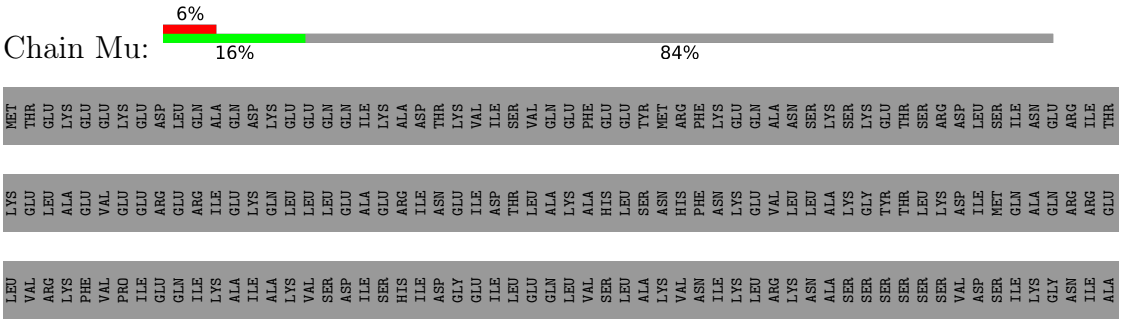
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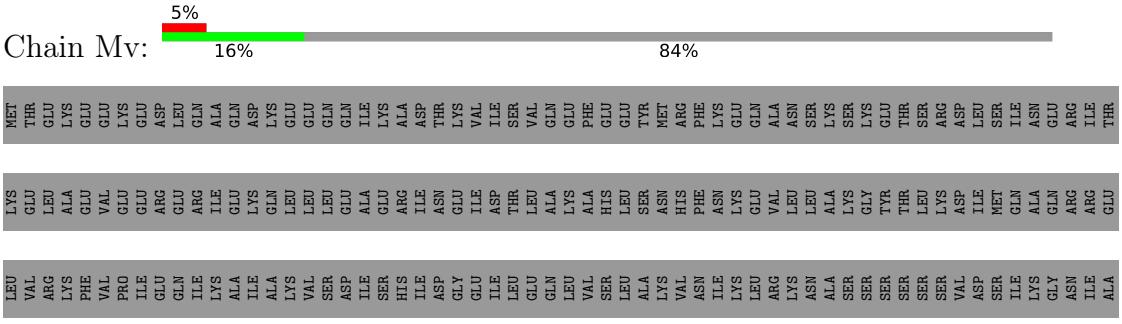




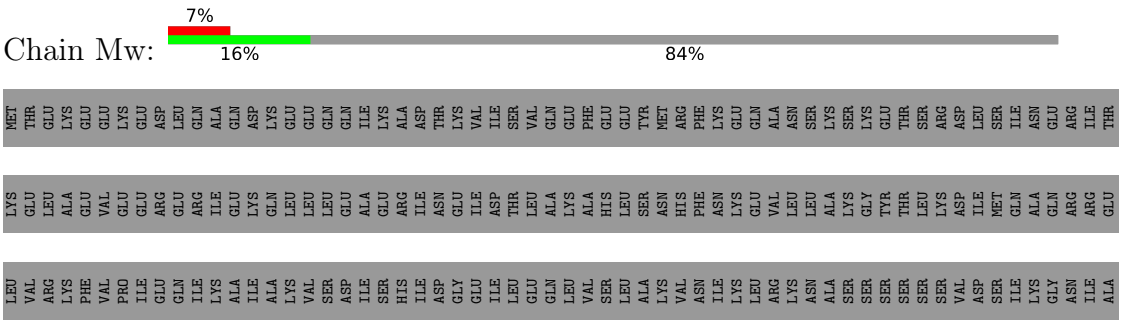
• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

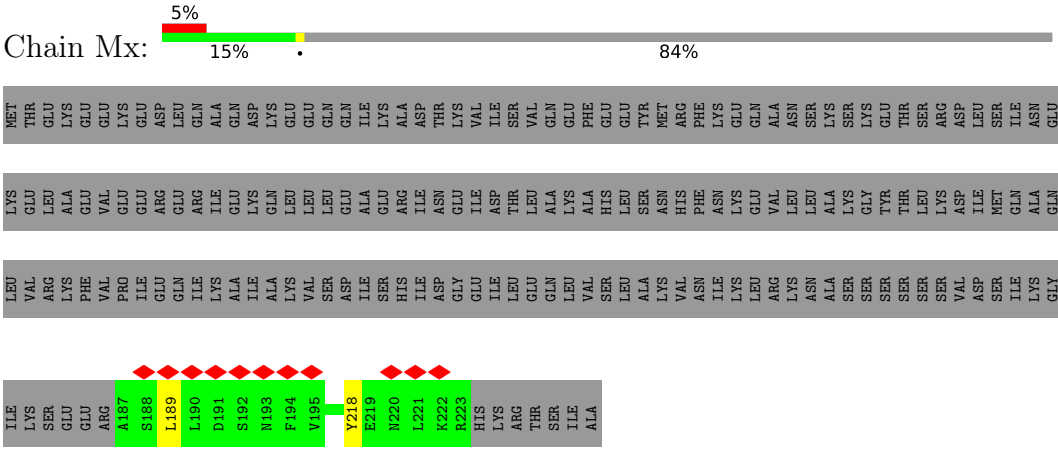


• Molecule 5: Scaffold protein



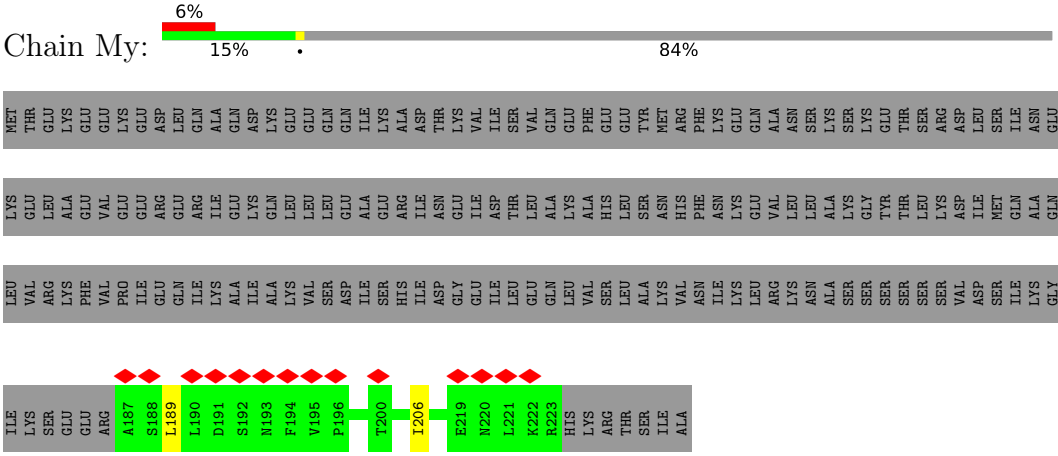
• Molecule 5: Scaffold protein

Chain Mx:



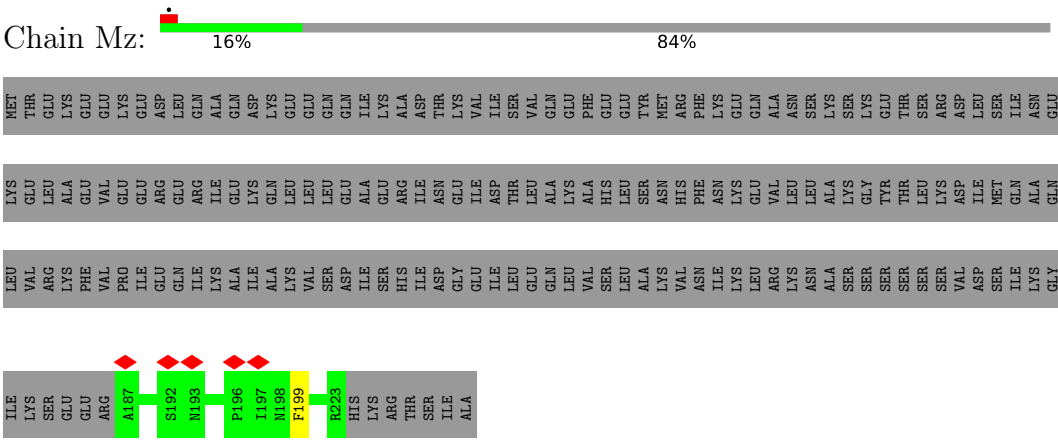
• Molecule 5: Scaffold protein

Chain My:



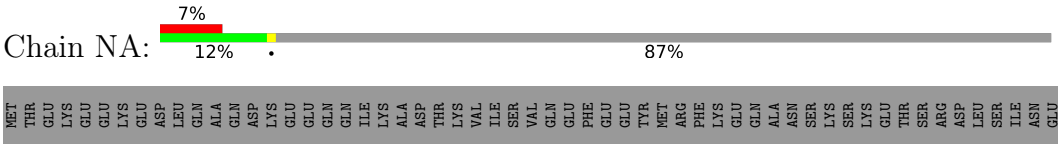
• Molecule 5: Scaffold protein

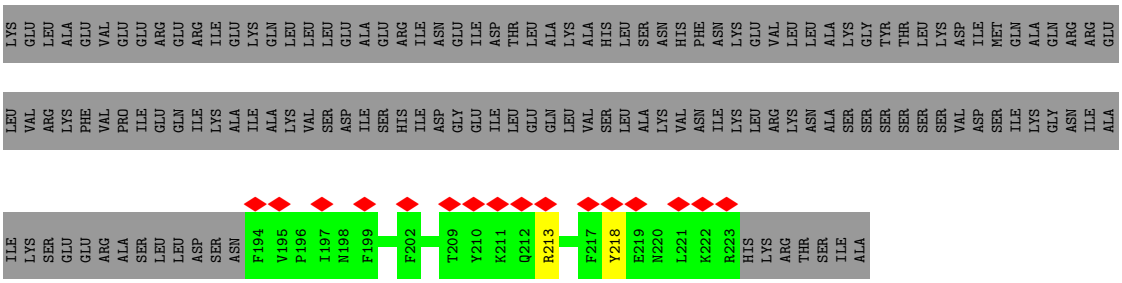
Chain Mz:



• Molecule 5: Scaffold protein

Chain NA:



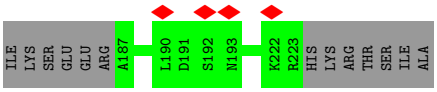


• Molecule 5: Scaffold protein

Chain NB:





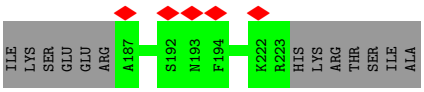


• Molecule 5: Scaffold protein

Chain NC:



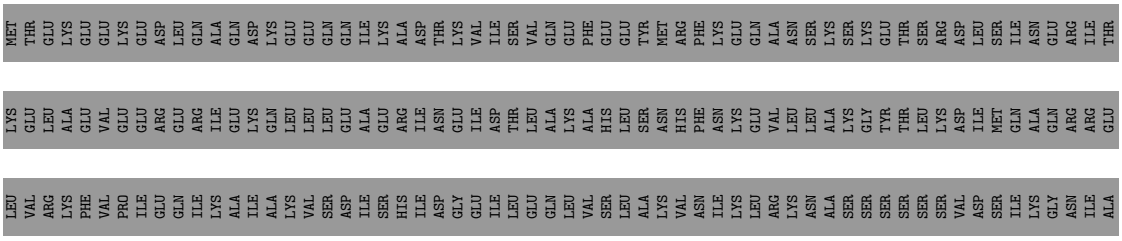


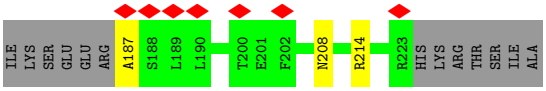


• Molecule 5: Scaffold protein

Chain ND:



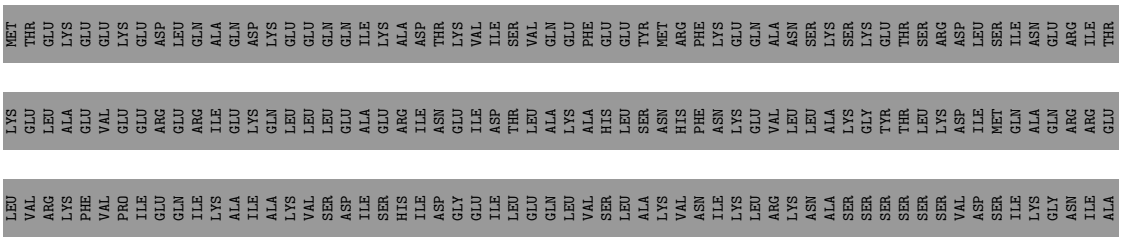


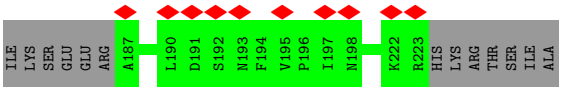


• Molecule 5: Scaffold protein

Chain NE:





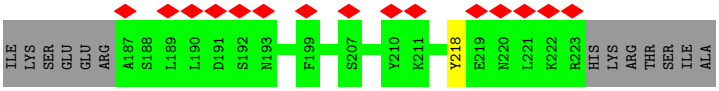


• Molecule 5: Scaffold protein

Chain NF:



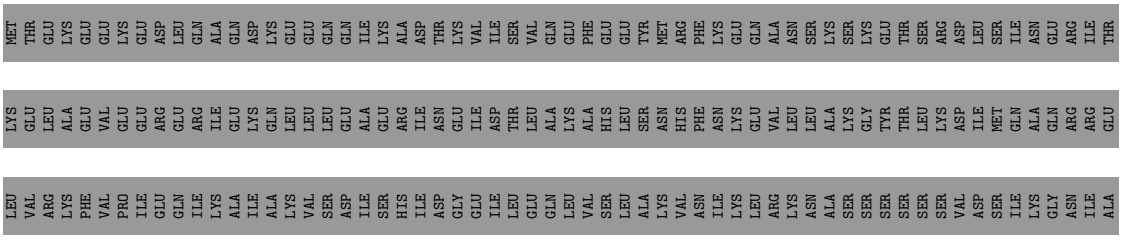


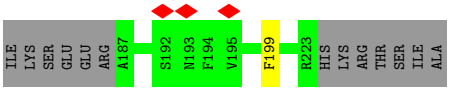


• Molecule 5: Scaffold protein

Chain NG:

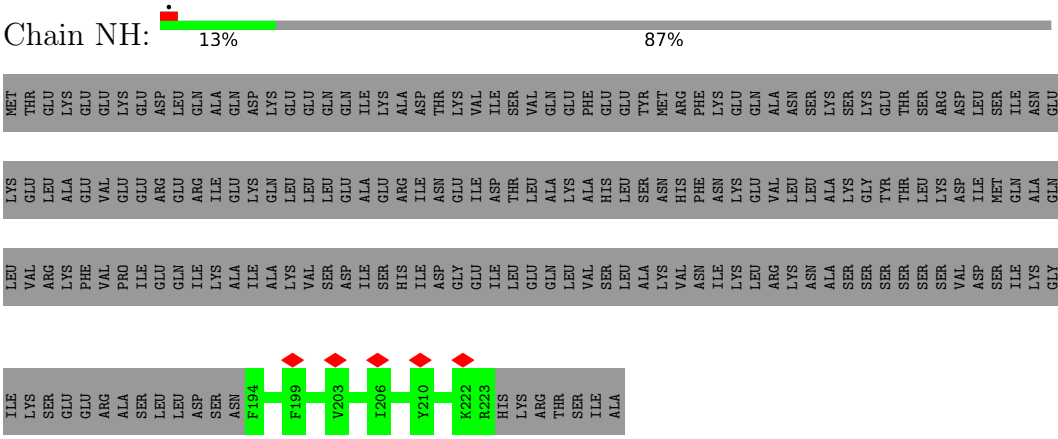






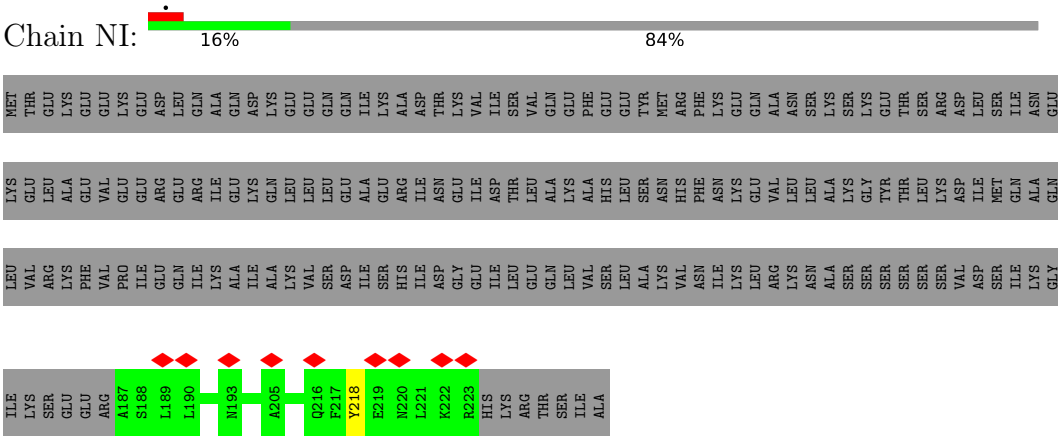
• Molecule 5: Scaffold protein

Chain NH:



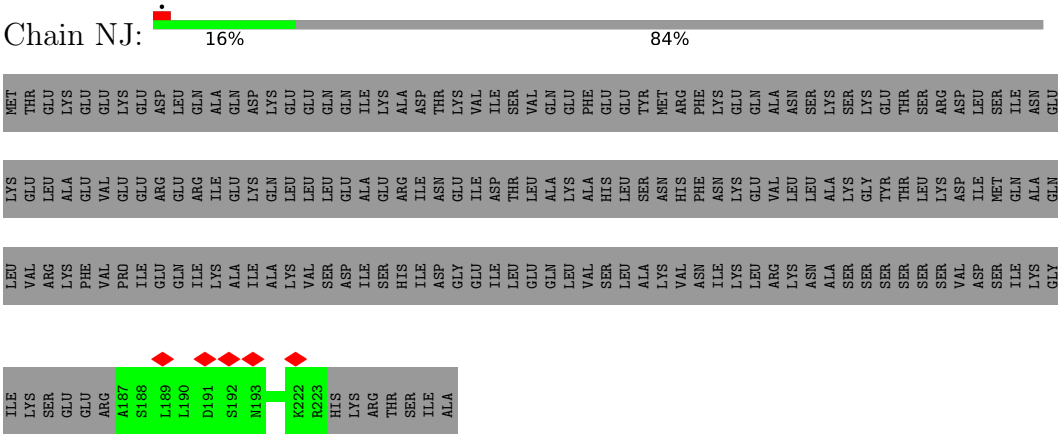
• Molecule 5: Scaffold protein

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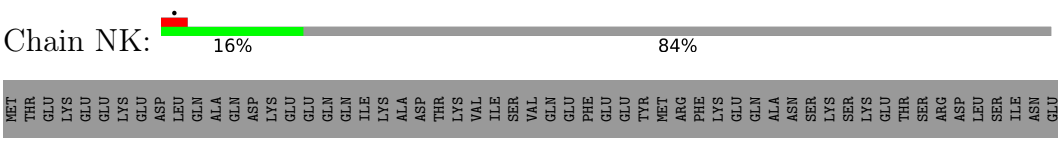
• Molecule 5: Scaffold protein

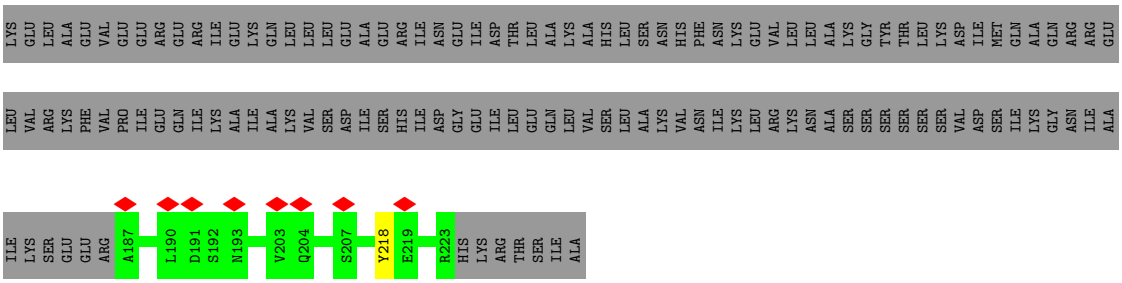
Chain NJ:



• Molecule 5: Scaffold protein

Chain NK:



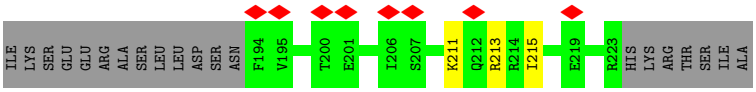


• Molecule 5: Scaffold protein

Chain NL:





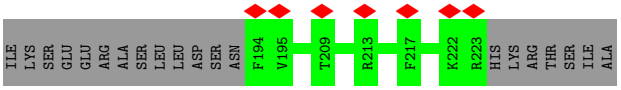


• Molecule 5: Scaffold protein

Chain NM:





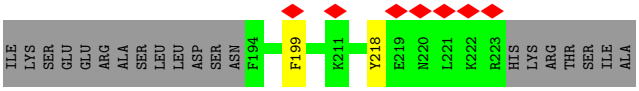


• Molecule 5: Scaffold protein

Chain NN:



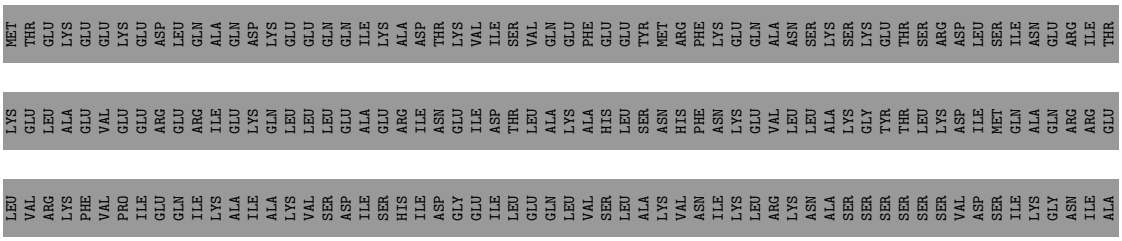


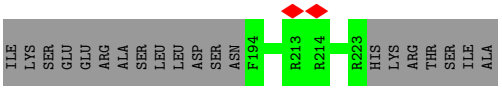


• Molecule 5: Scaffold protein

Chain NO:



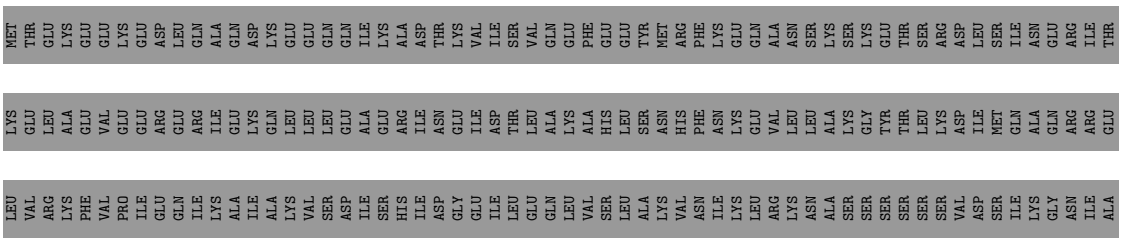


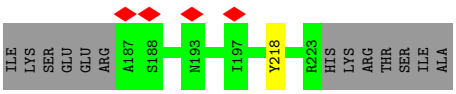


• Molecule 5: Scaffold protein

Chain NP:





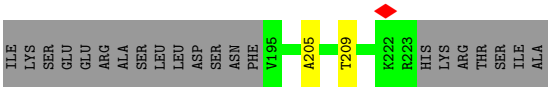


• Molecule 5: Scaffold protein

Chain NQ:

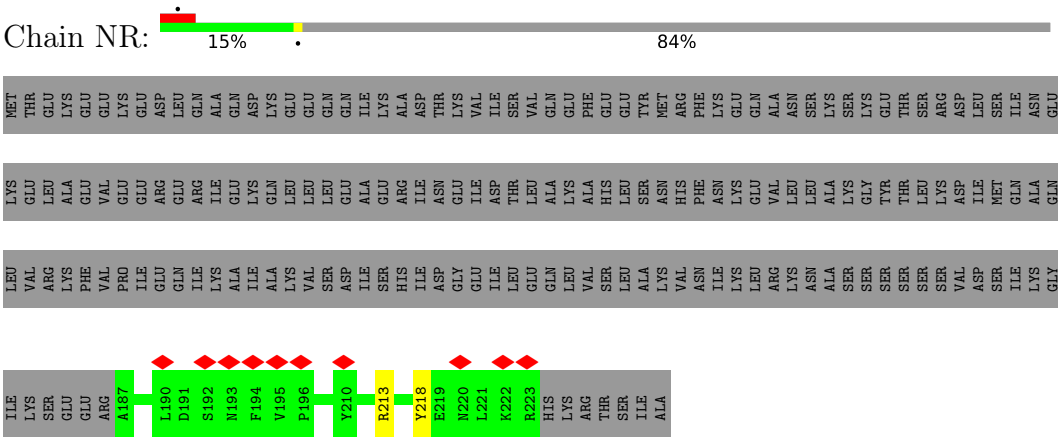






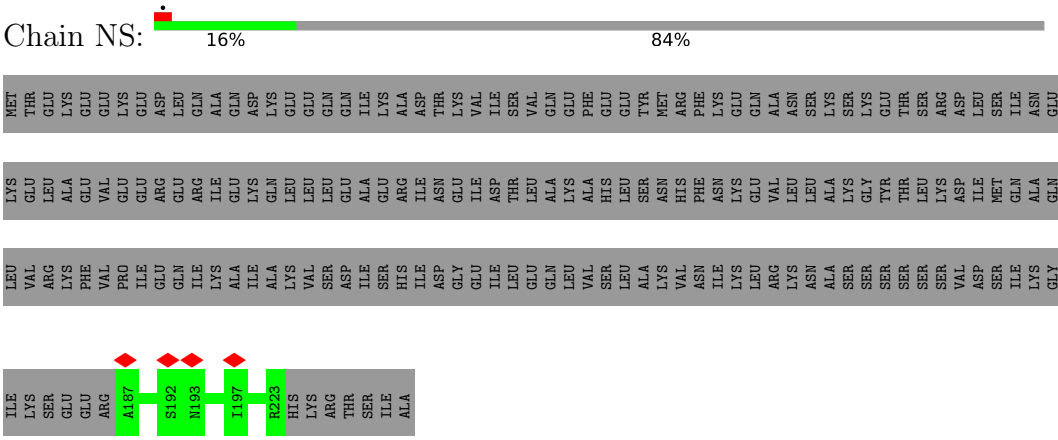
• Molecule 5: Scaffold protein

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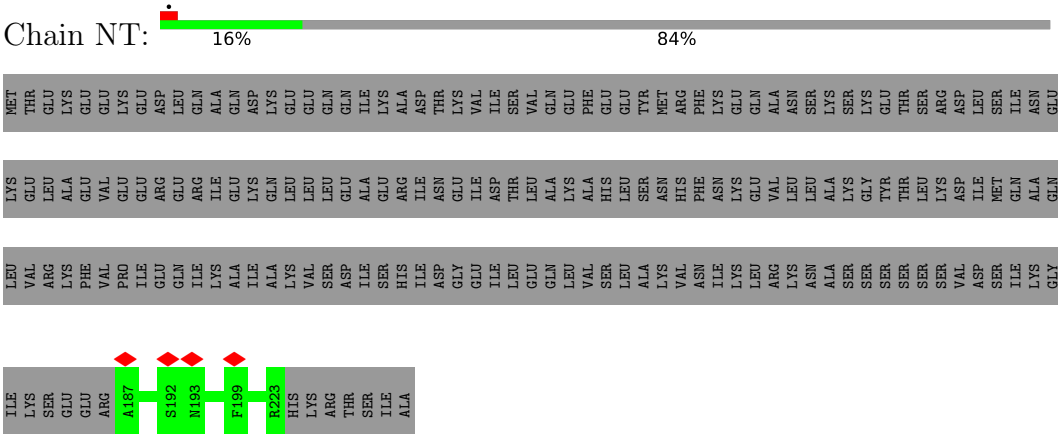
• Molecule 5: Scaffold protein

Chain NS:



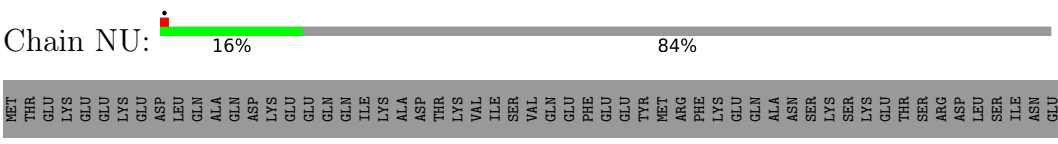
• Molecule 5: Scaffold protein

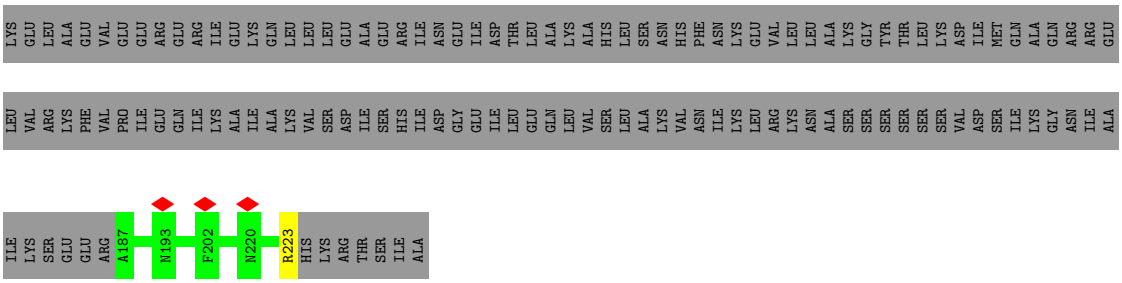
Chain NT:



• Molecule 5: Scaffold protein

Chain NU:





• Molecule 5: Scaffold protein

Chain NV:





• Molecule 5: Scaffold protein

Chain NW:



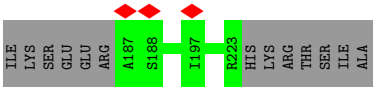


• Molecule 5: Scaffold protein

Chain NX:



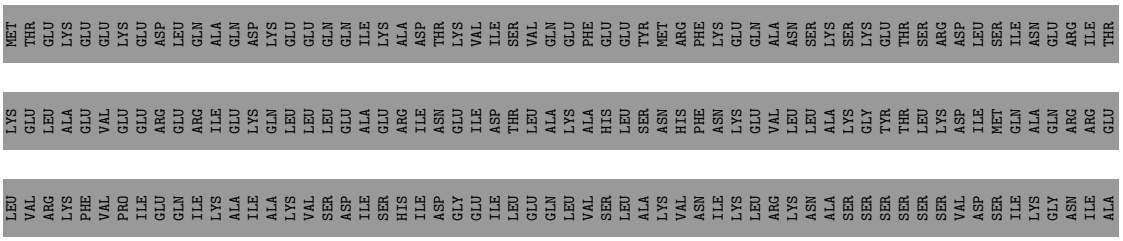




• Molecule 5: Scaffold protein

Chain NY:





• Molecule 5: Scaffold protein

Chain NZ:

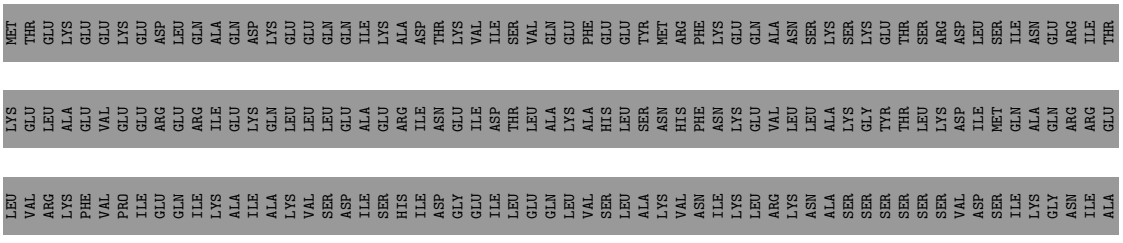




• Molecule 5: Scaffold protein

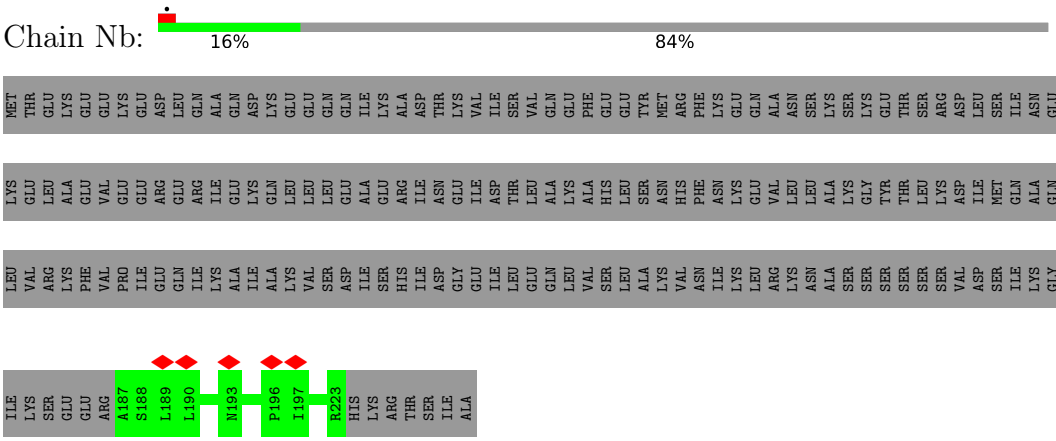
Chain Na:





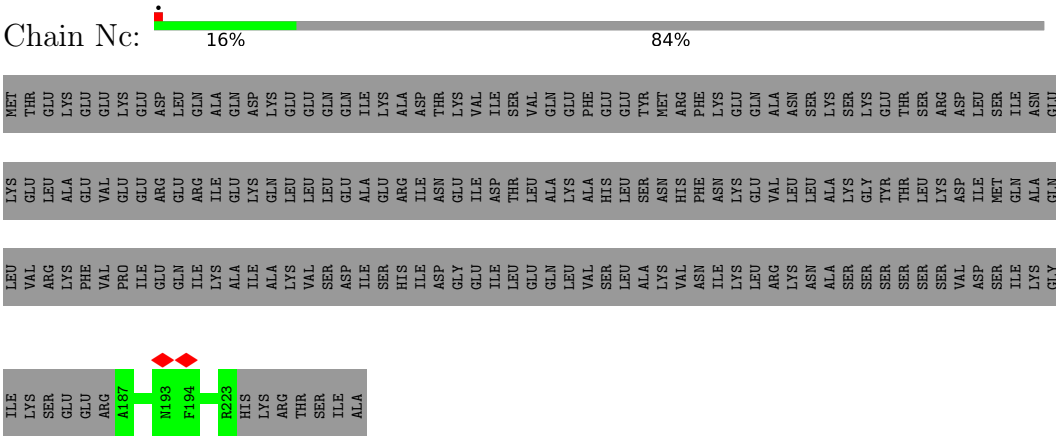
• Molecule 5: Scaffold protein

Chain Nb:



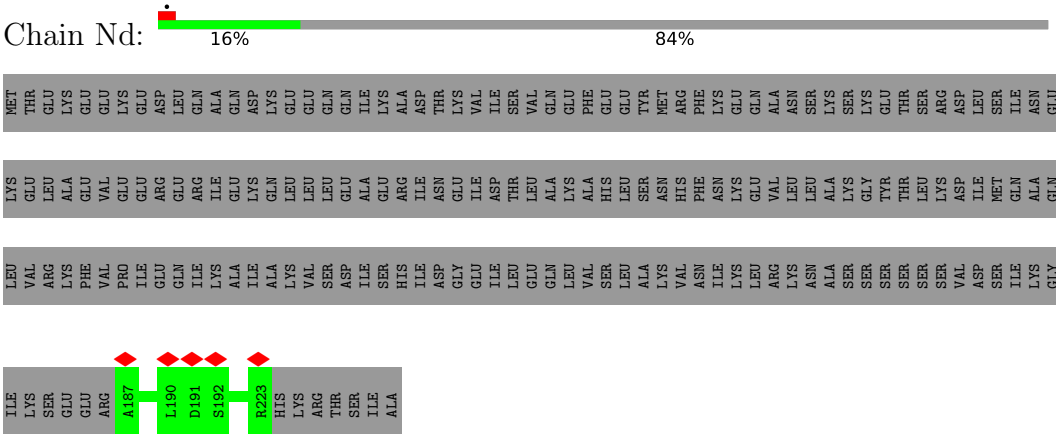
• Molecule 5: Scaffold protein

Chain Nc:



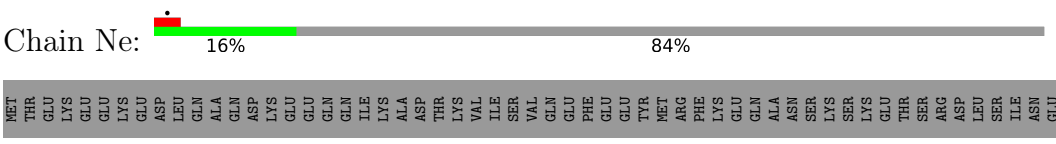
• Molecule 5: Scaffold protein

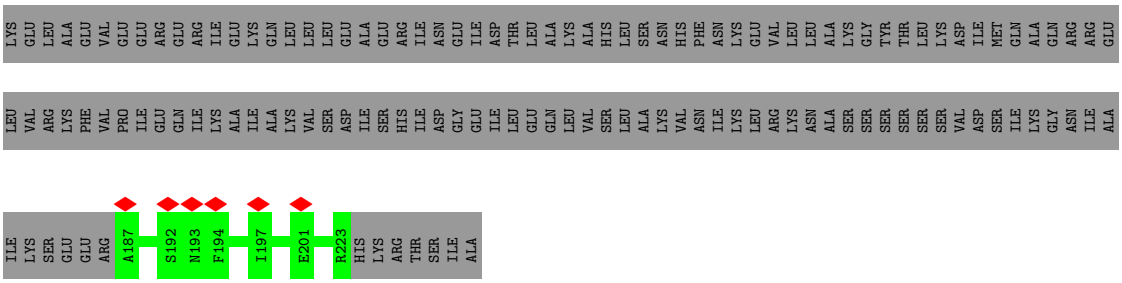
Chain Nd:



• Molecule 5: Scaffold protein

Chain Ne:



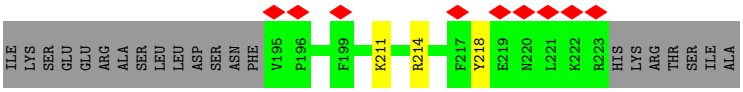


• Molecule 5: Scaffold protein

Chain Nf:





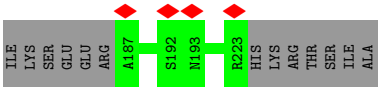


• Molecule 5: Scaffold protein

Chain Ng:



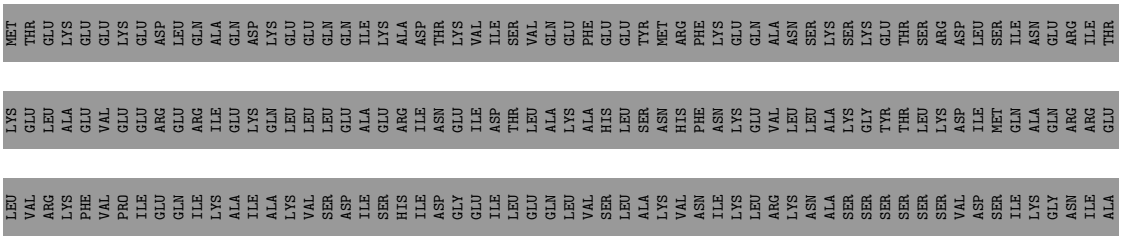




• Molecule 5: Scaffold protein

Chain Nh:





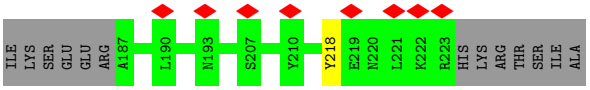


• Molecule 5: Scaffold protein

Chain Ni:





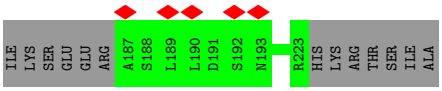


• Molecule 5: Scaffold protein

Chain Nj:



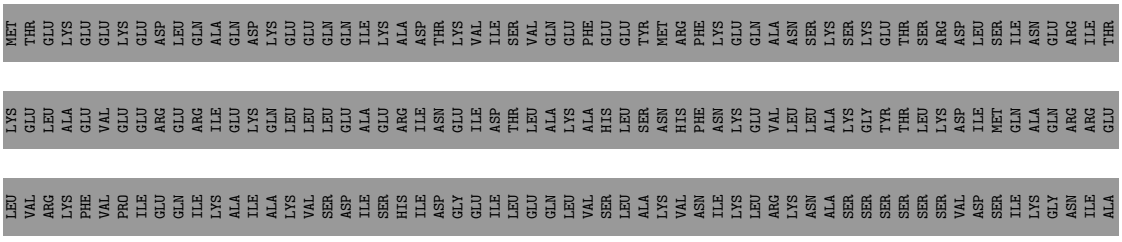


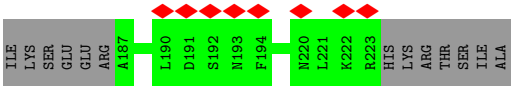


• Molecule 5: Scaffold protein

Chain Nk:

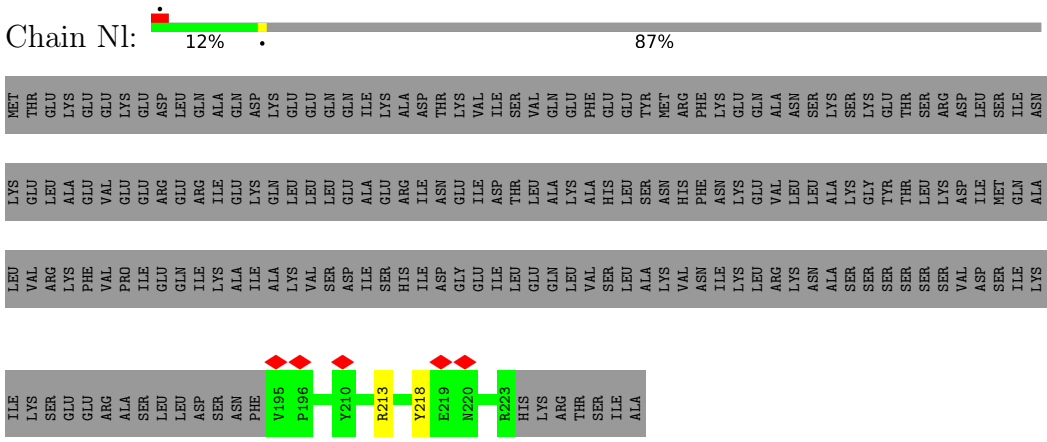






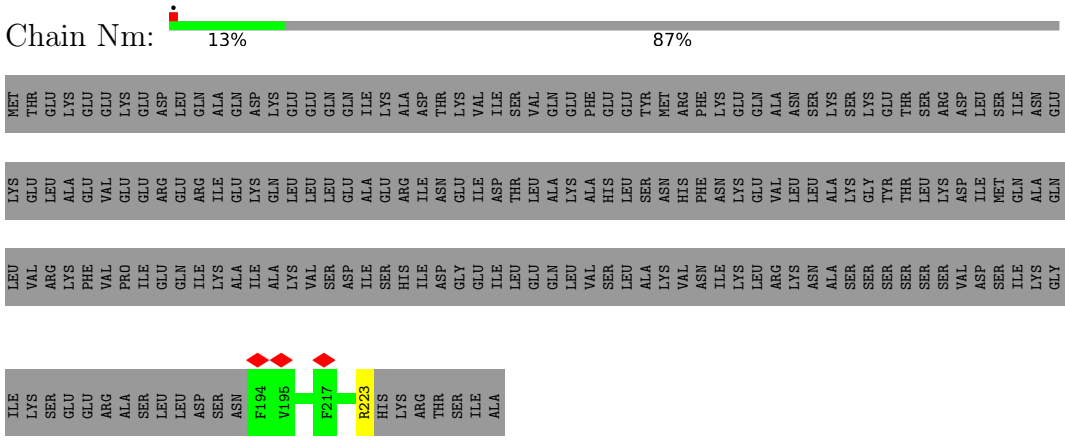
• Molecule 5: Scaffold protein

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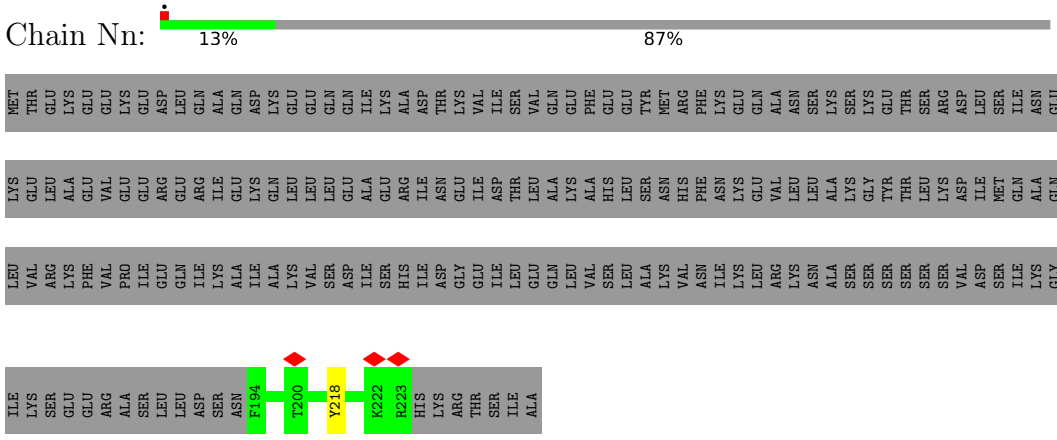
• Molecule 5: Scaffold protein

Chain Nm:



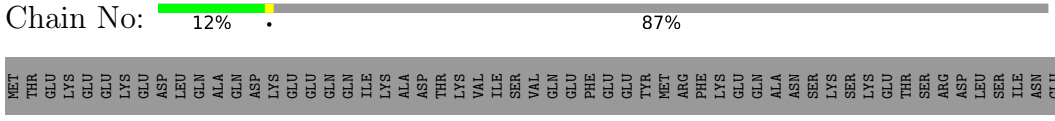
• Molecule 5: Scaffold protein

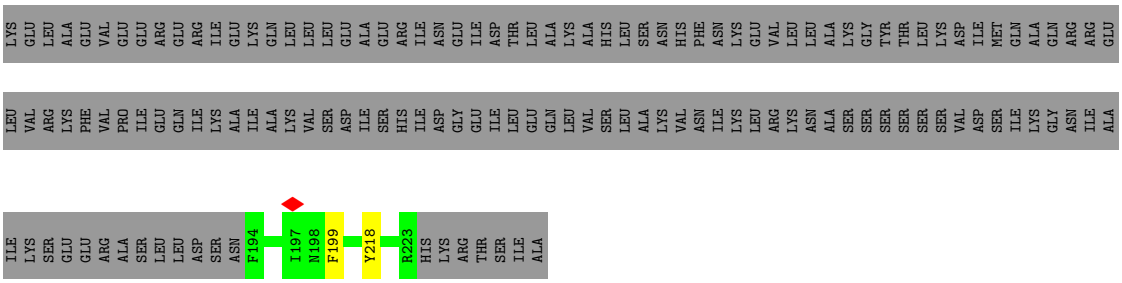
Chain Nn:



• Molecule 5: Scaffold protein

Chain No:



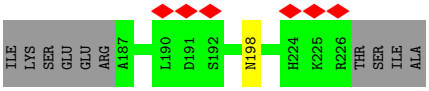


• Molecule 5: Scaffold protein

Chain Np:





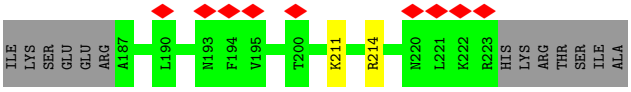


• Molecule 5: Scaffold protein

Chain Nq:



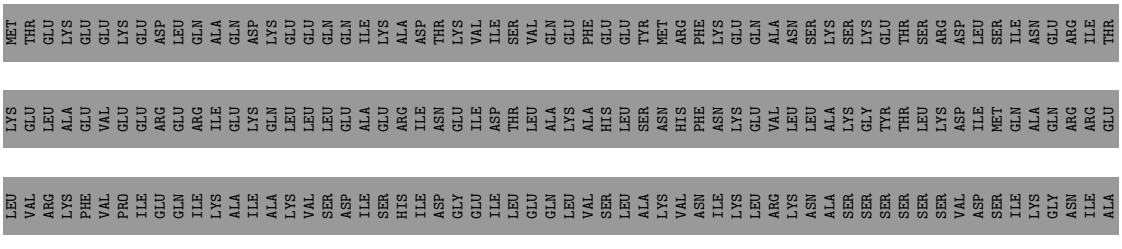


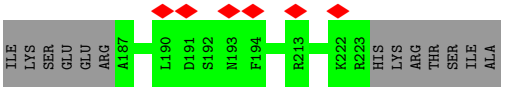


• Molecule 5: Scaffold protein

Chain Nr:



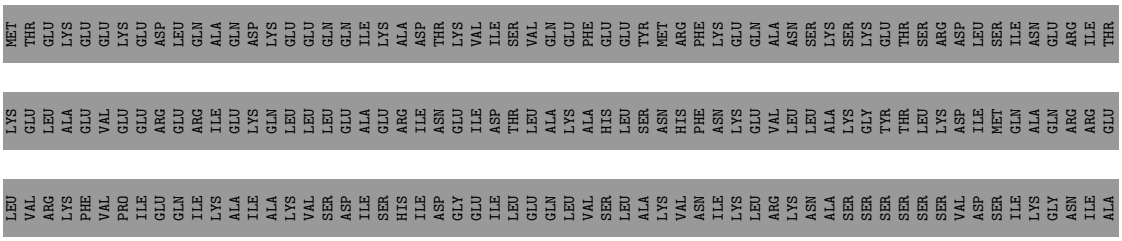


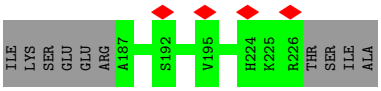


• Molecule 5: Scaffold protein

Chain Ns:



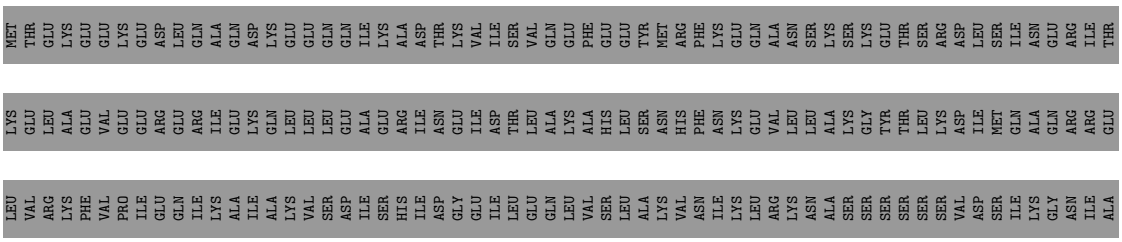


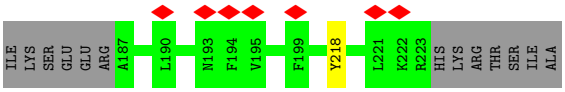


• Molecule 5: Scaffold protein

Chain Nt:





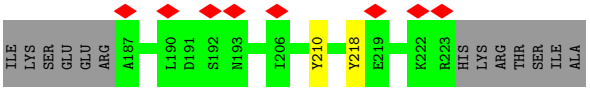


• Molecule 5: Scaffold protein

Chain Nu:

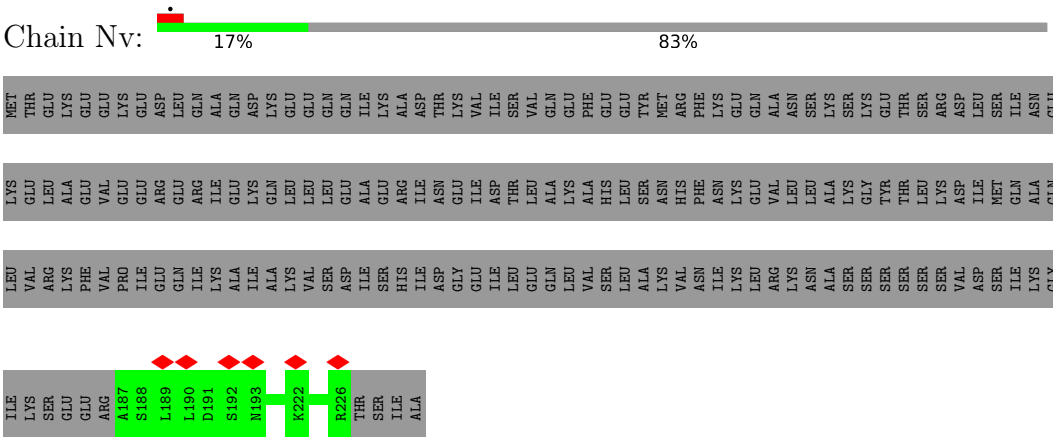






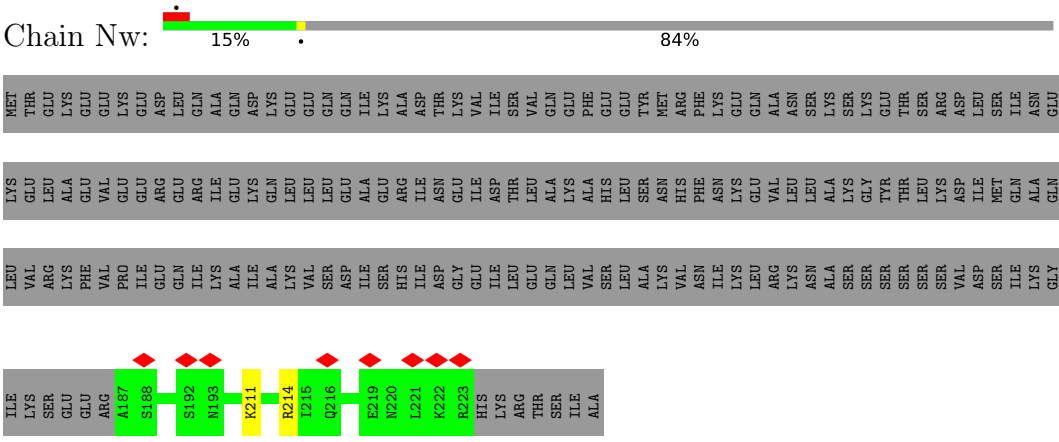
• Molecule 5: Scaffold protein

Chain Nv:



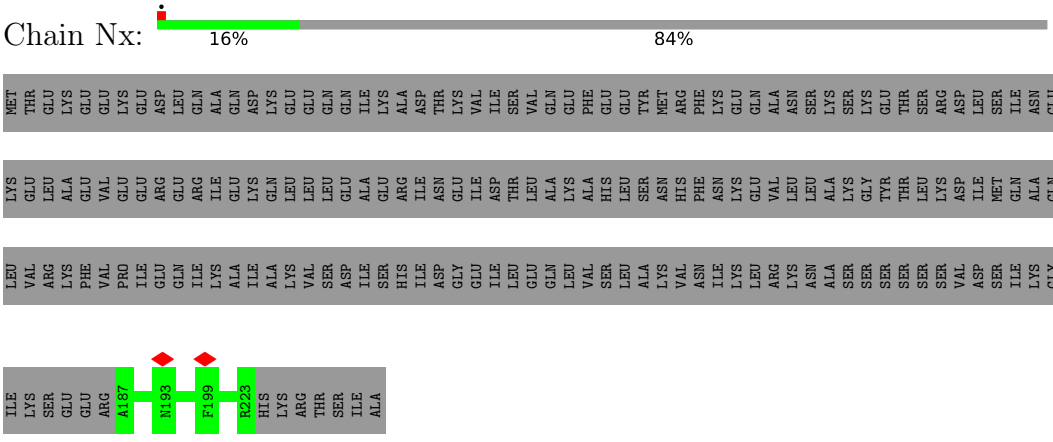
• Molecule 5: Scaffold protein

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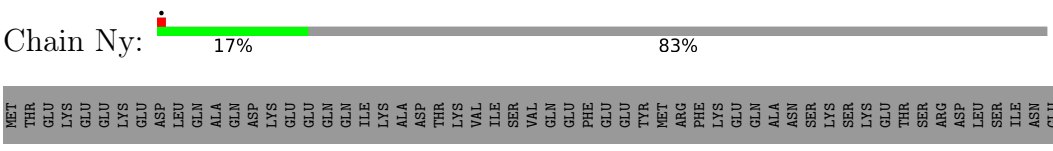
• Molecule 5: Scaffold protein

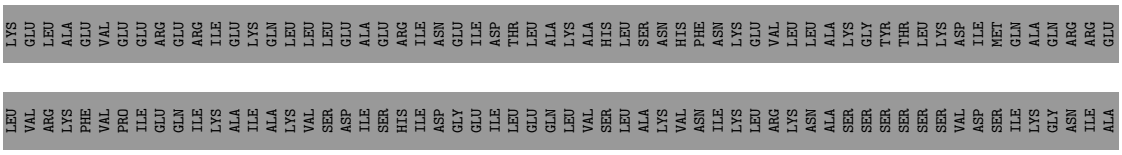
Chain Nx:



• Molecule 5: Scaffold protein

Chain Ny:

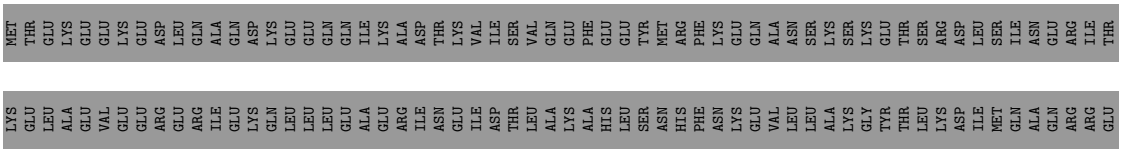




• Molecule 5: Scaffold protein

Chain Nz:

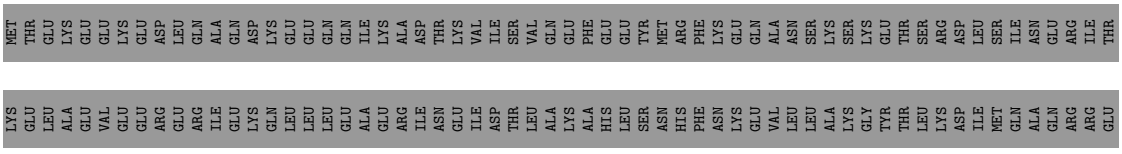




• Molecule 5: Scaffold protein

Chain OA:

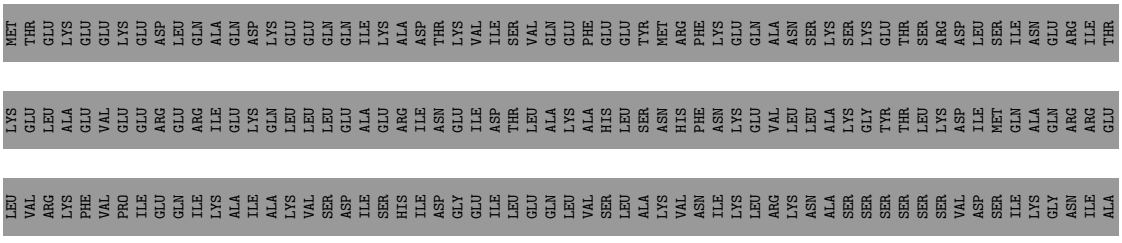


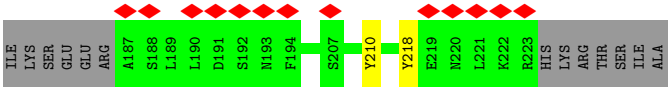


• Molecule 5: Scaffold protein

Chain OB:



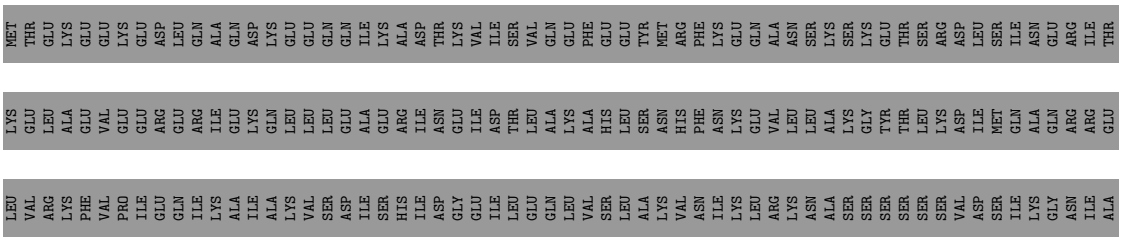


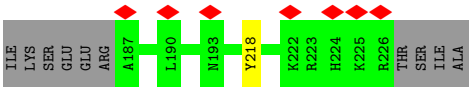


• Molecule 5: Scaffold protein

Chain OC:



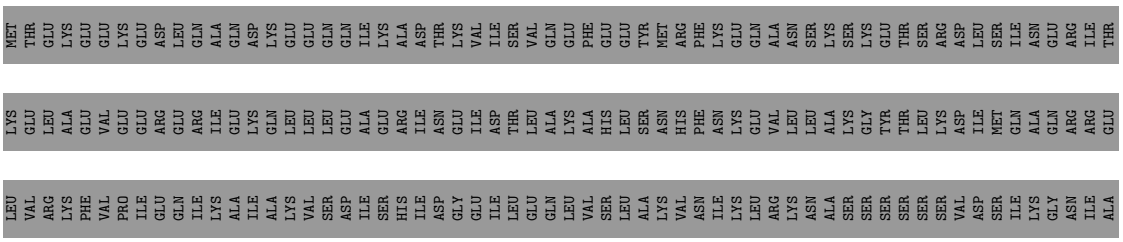


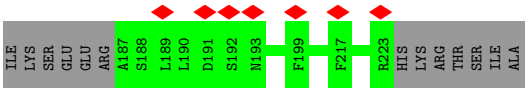


• Molecule 5: Scaffold protein

Chain OD:





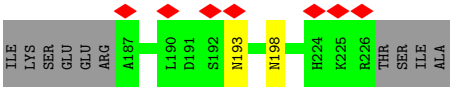


• Molecule 5: Scaffold protein

Chain OE:

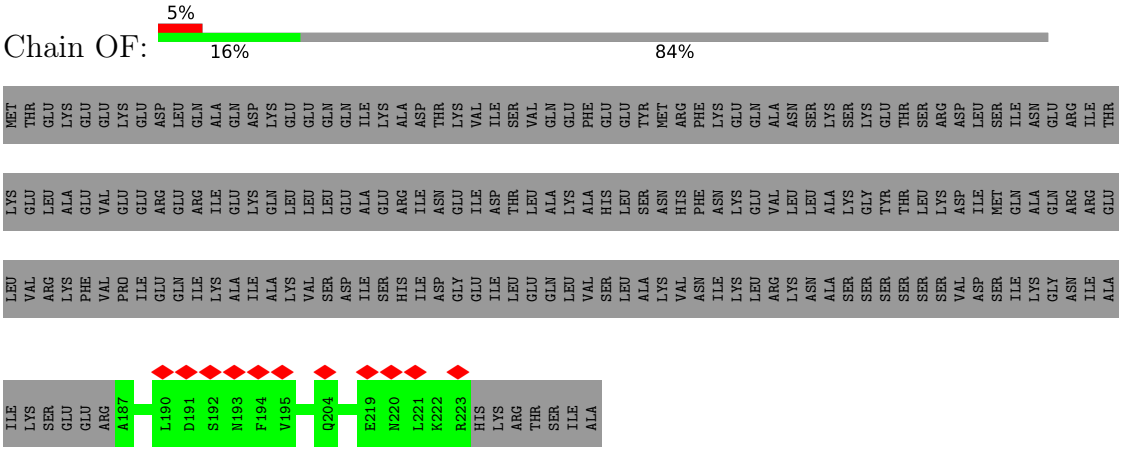






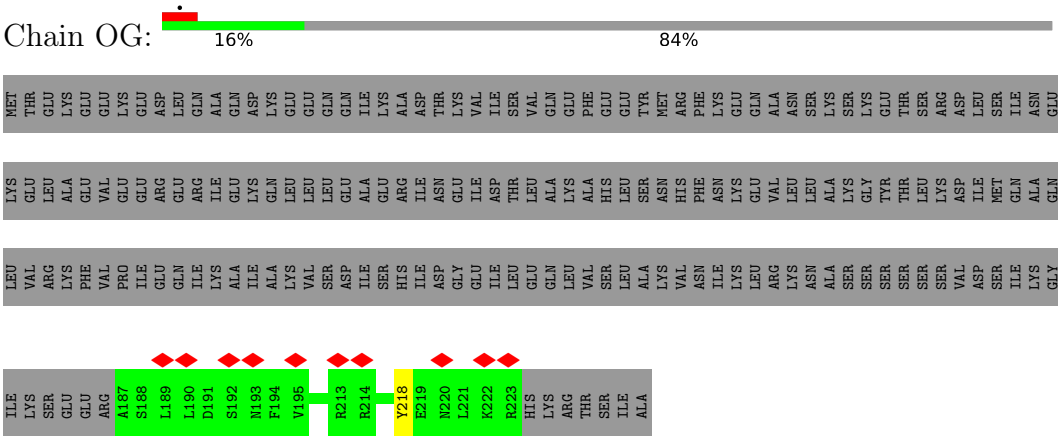
• Molecule 5: Scaffold protein

Chain OF:



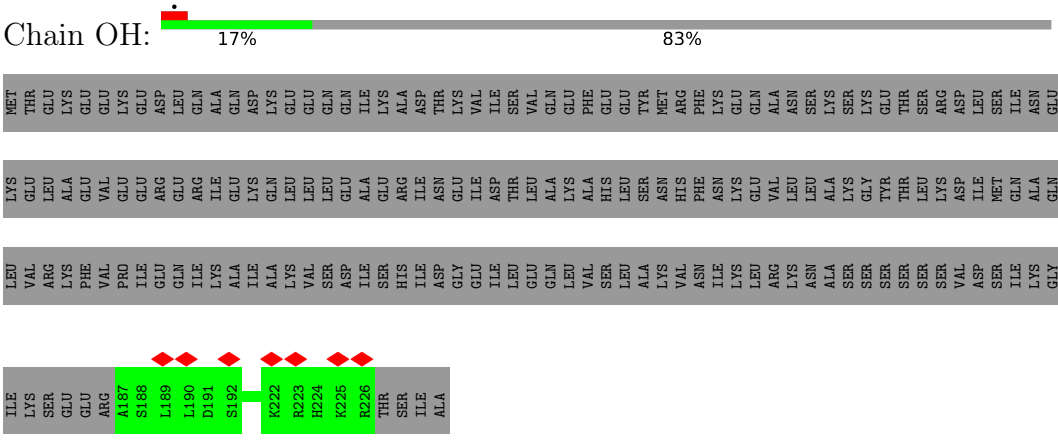
• Molecule 5: Scaffold protein

Chain OG:



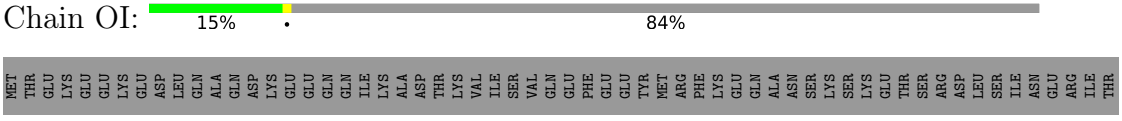
• Molecule 5: Scaffold protein

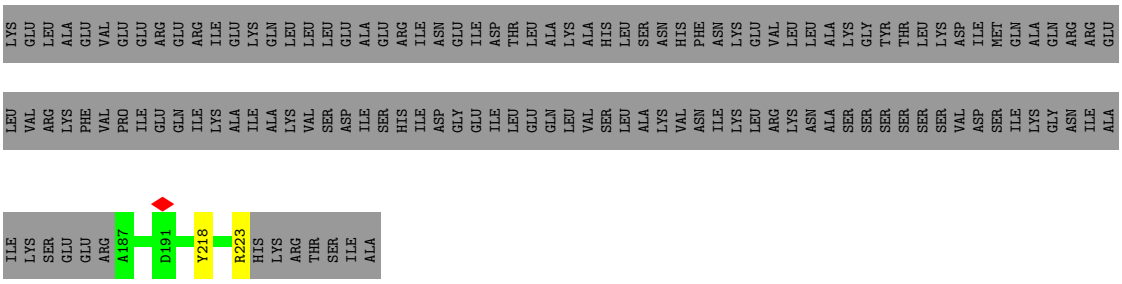
Chain OH:



• Molecule 5: Scaffold protein

Chain OI:

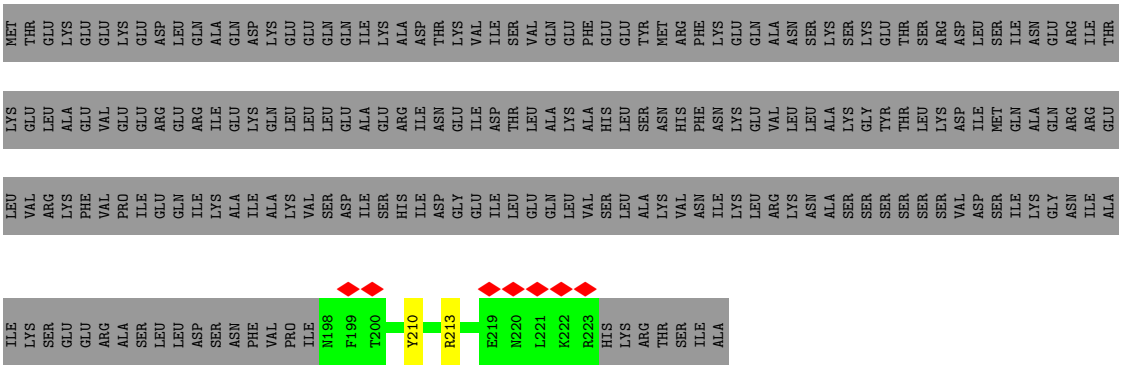




• Molecule 5: Scaffold protein

Chain OJ:

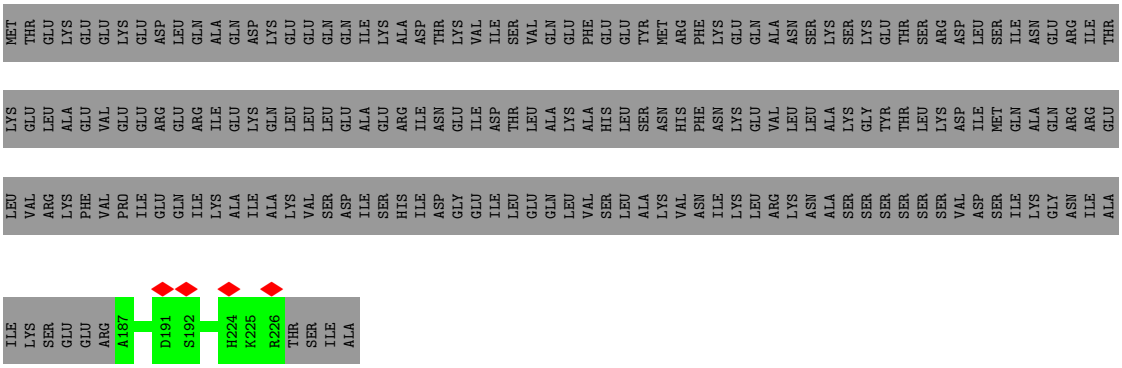




• Molecule 5: Scaffold protein

Chain OK:



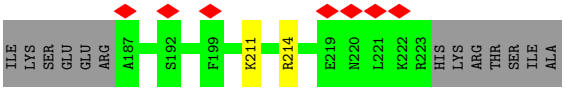


• Molecule 5: Scaffold protein

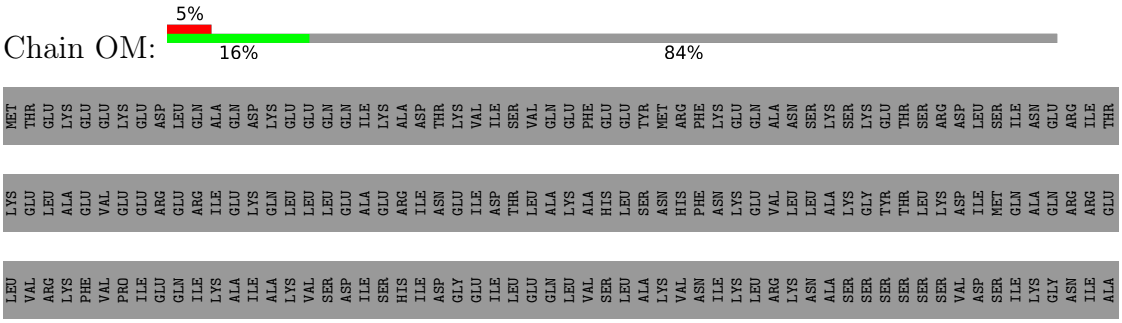
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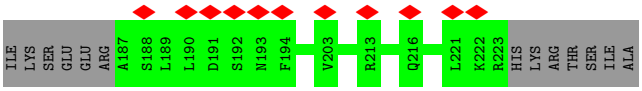




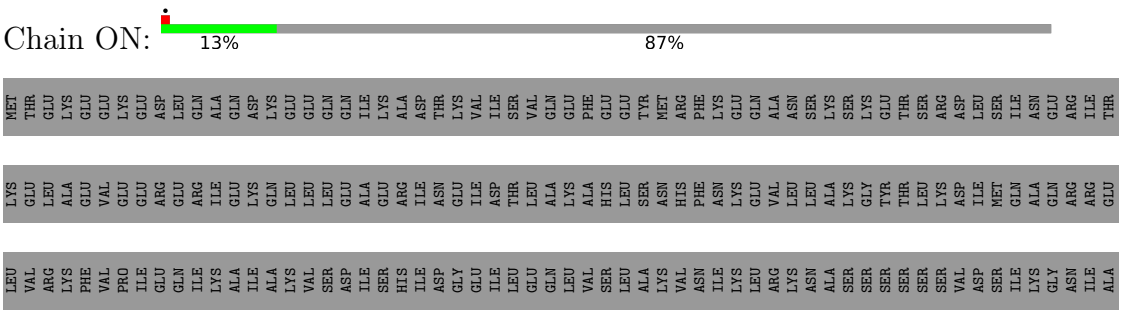


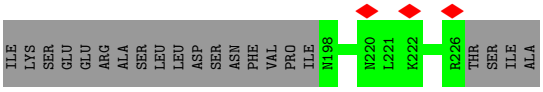
• Molecule 5: Scaffold protein



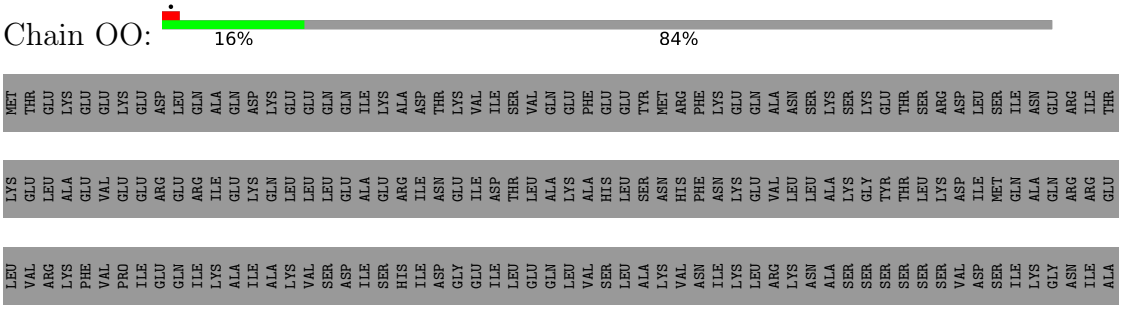


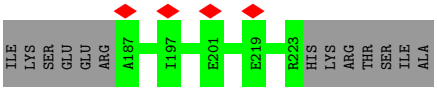
• Molecule 5: Scaffold protein





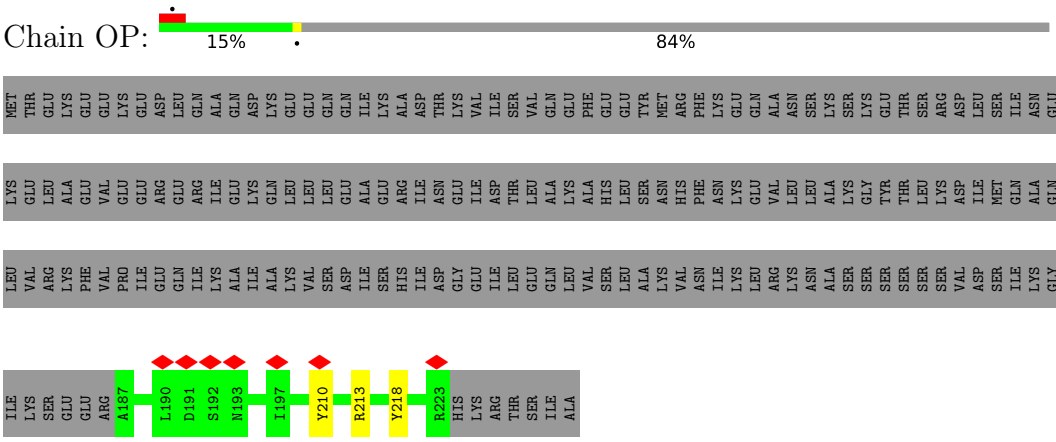
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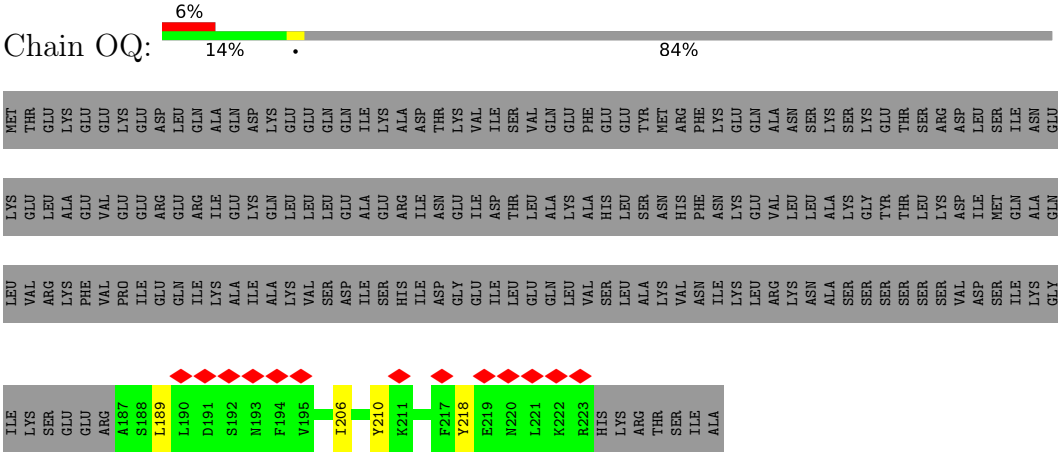
• Molecule 5: Scaffold protein

Chain OP:



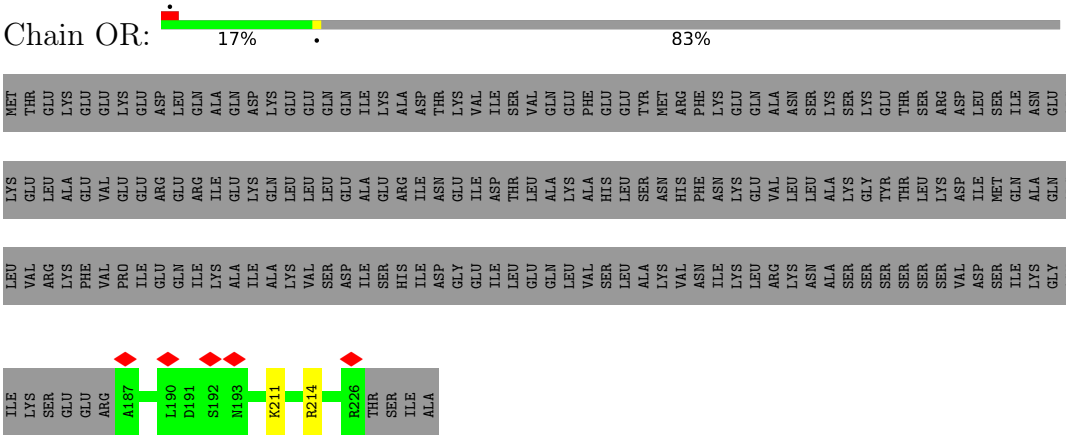
• Molecule 5: Scaffold protein

Chain OQ:



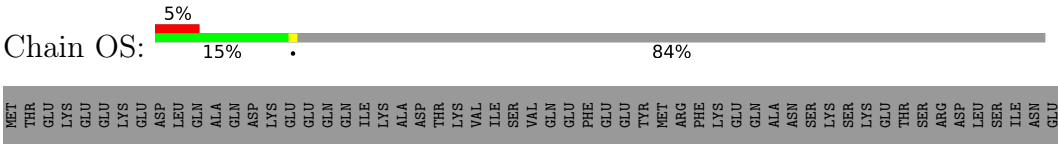
• Molecule 5: Scaffold protein

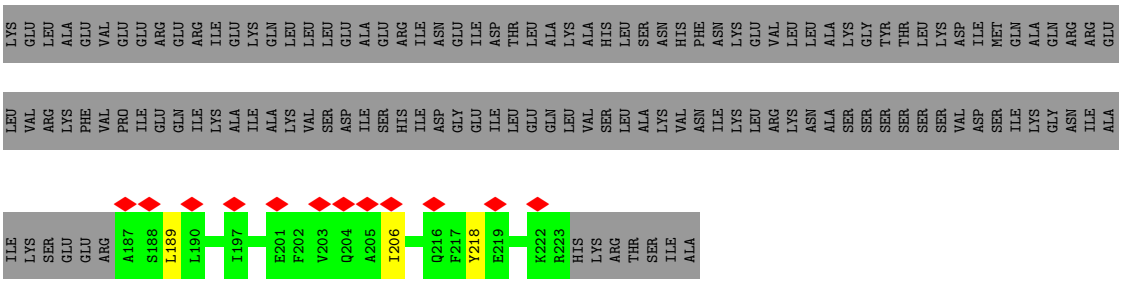
Chain OR:



• Molecule 5: Scaffold protein

Chain OS:





• Molecule 5: Scaffold protein

Chain Rd:





• Molecule 5: Scaffold protein

Chain Re:



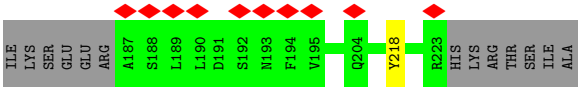


• Molecule 5: Scaffold protein

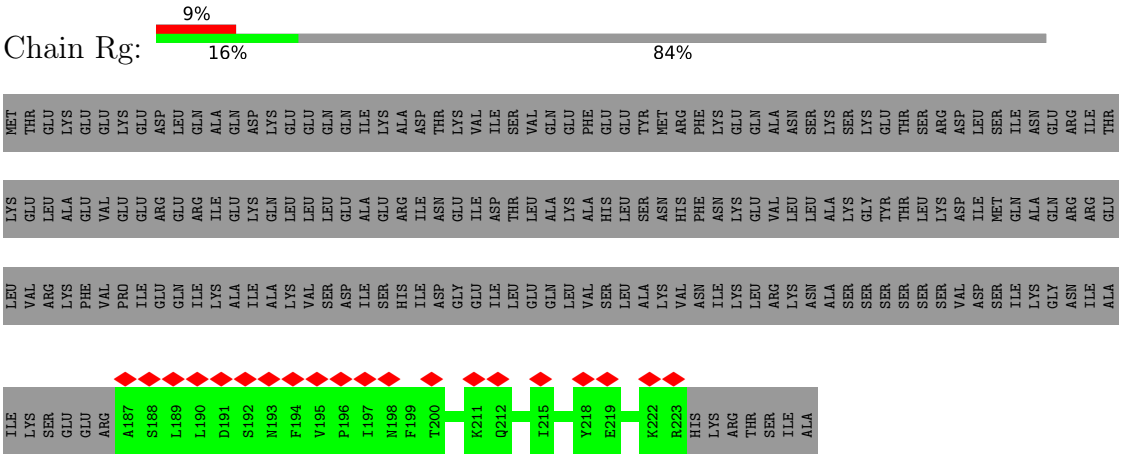
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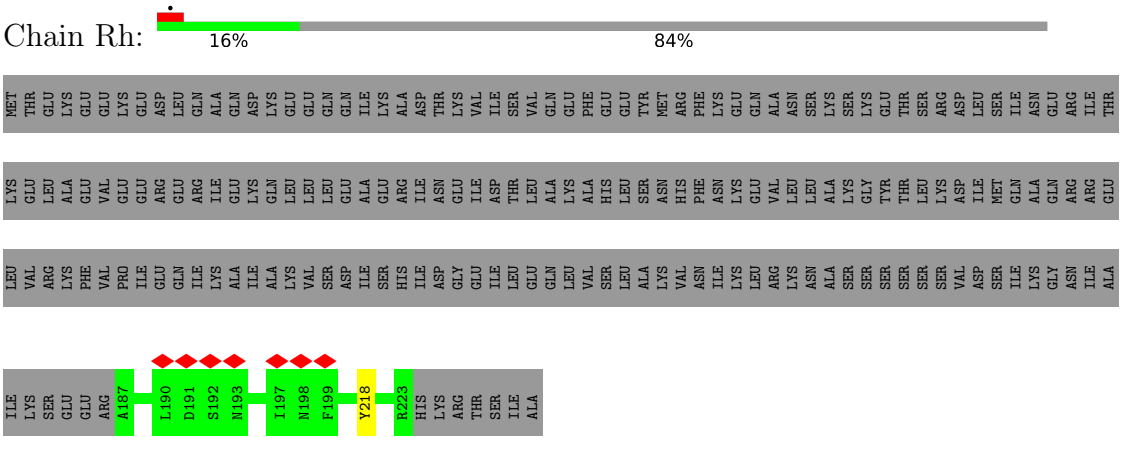




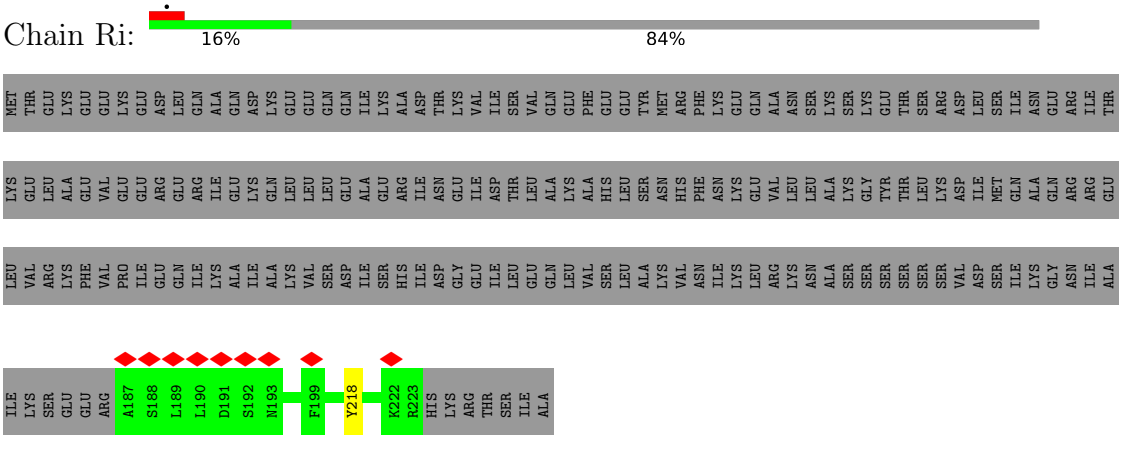
• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

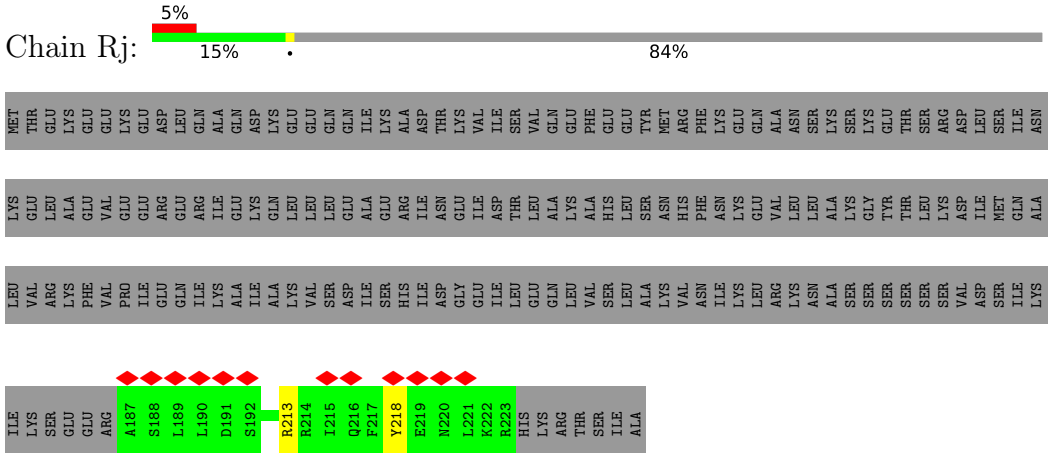


• Molecule 5: Scaffold protein



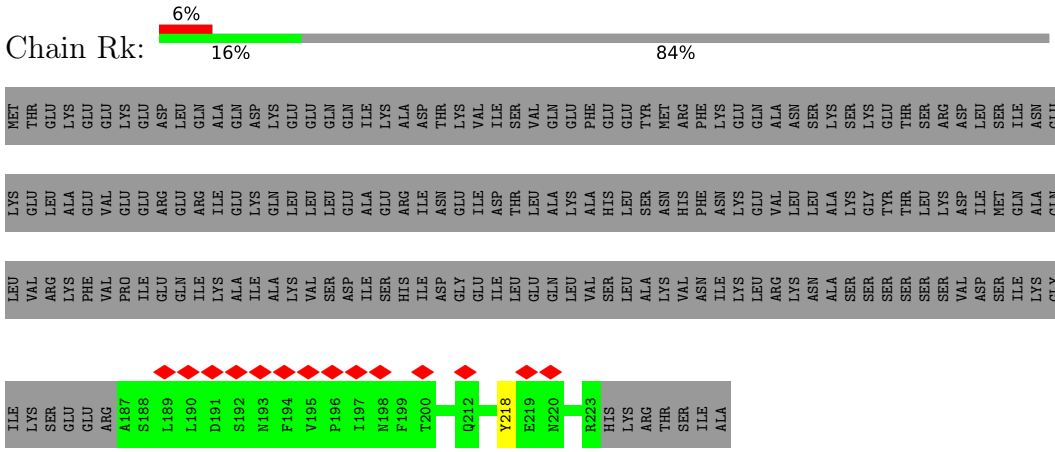
• Molecule 5: Scaffold protein

Chain Rj:



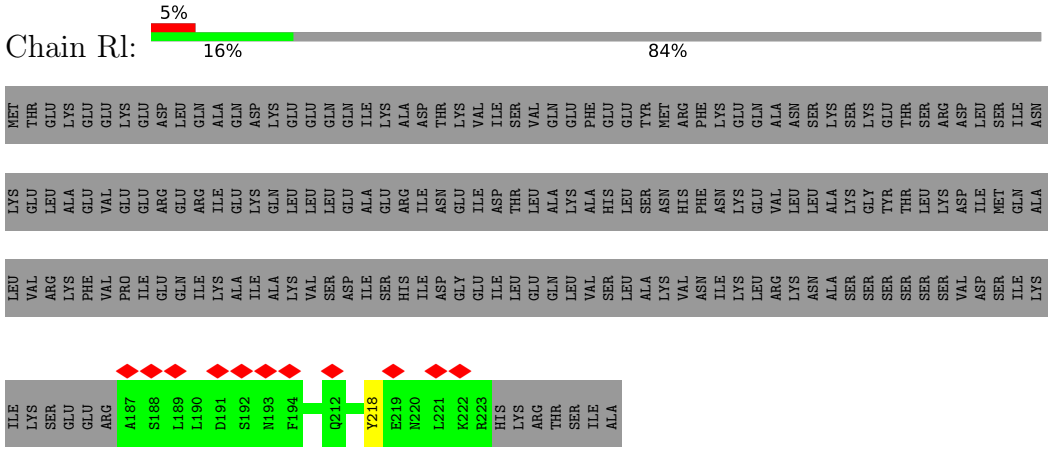
• Molecule 5: Scaffold protein

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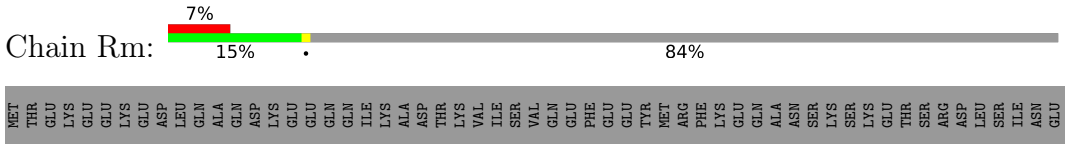
• Molecule 5: Scaffold protein

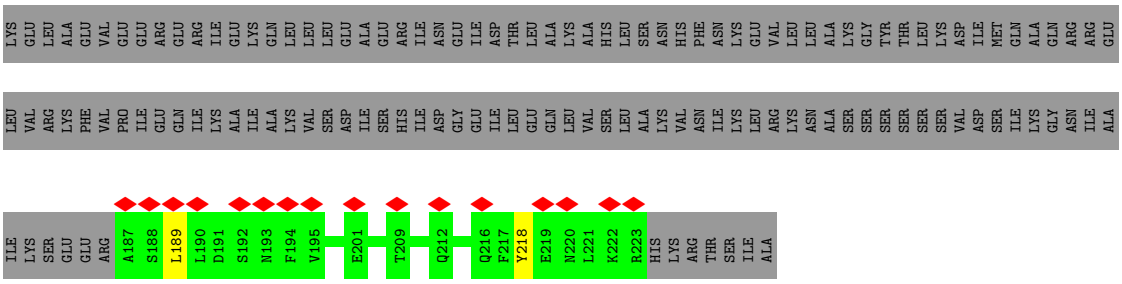
Chain Rl:



• Molecule 5: Scaffold protein

Chain Rm:

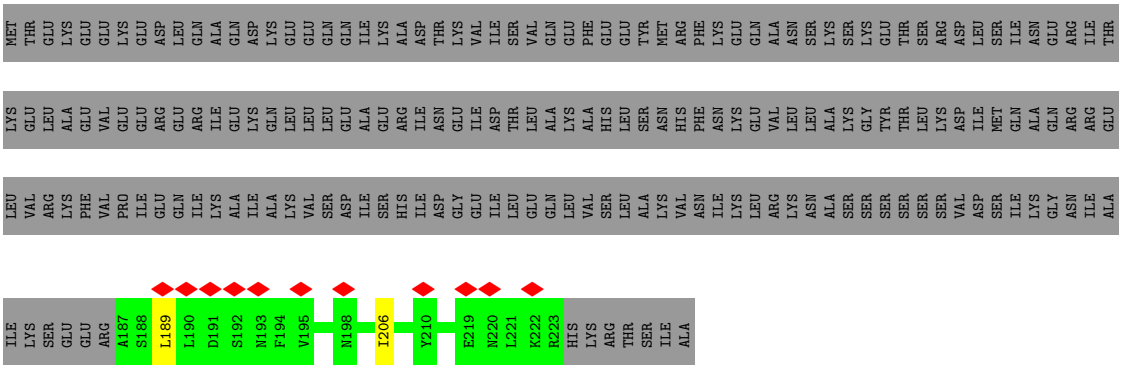




• Molecule 5: Scaffold protein

Chain Rn:

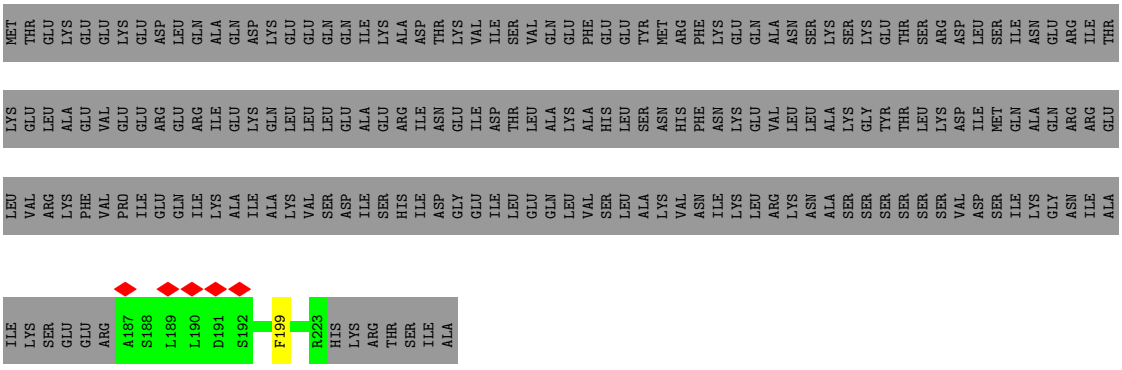




• Molecule 5: Scaffold protein

Chain Ro:

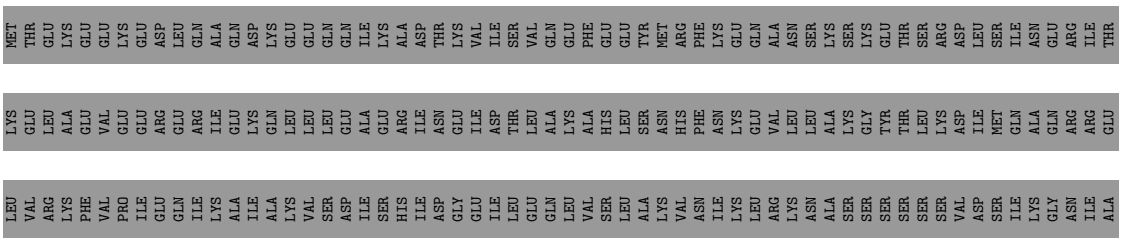


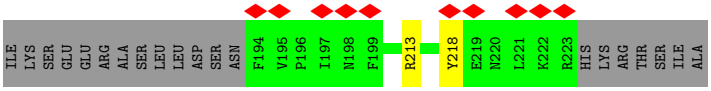


• Molecule 5: Scaffold protein

Chain Rp:





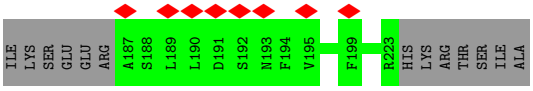


• Molecule 5: Scaffold protein

Chain Rq:





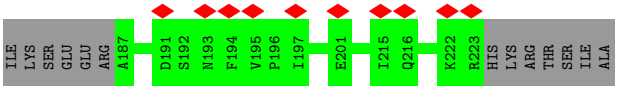


• Molecule 5: Scaffold protein

Chain Rr:





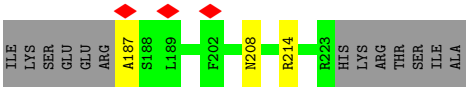


• Molecule 5: Scaffold protein

Chain Rs:

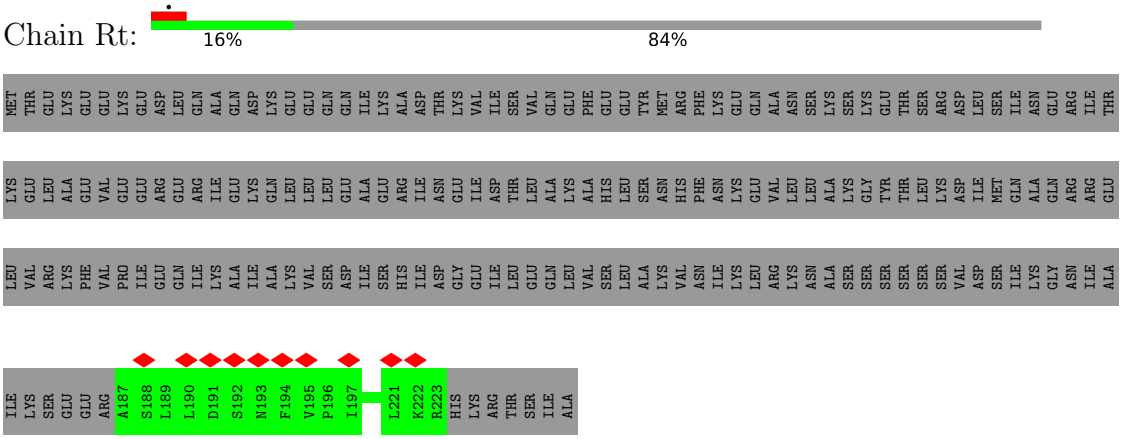






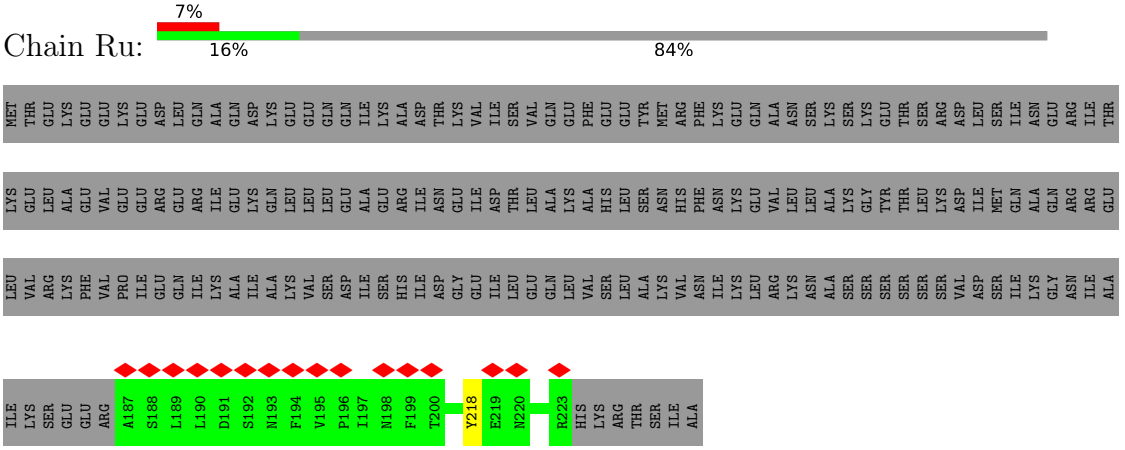
• Molecule 5: Scaffold protein

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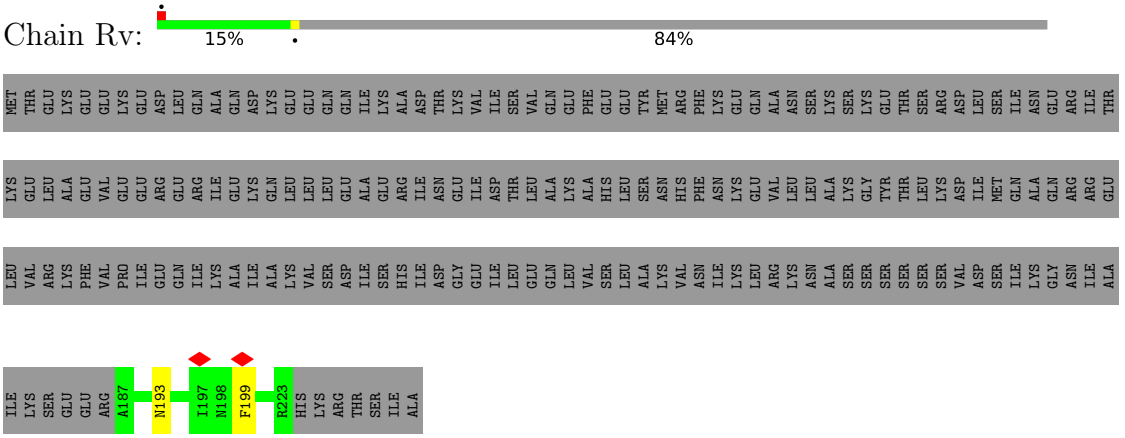
• Molecule 5: Scaffold protein

Chain Ru:



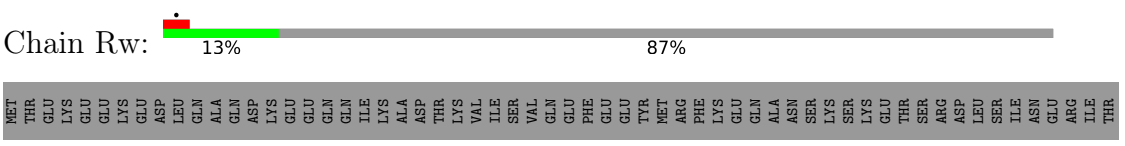
• Molecule 5: Scaffold protein

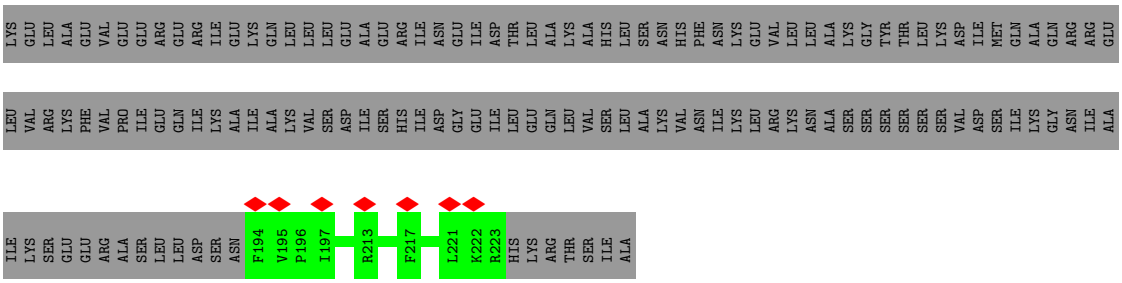
Chain Rv:



• Molecule 5: Scaffold protein

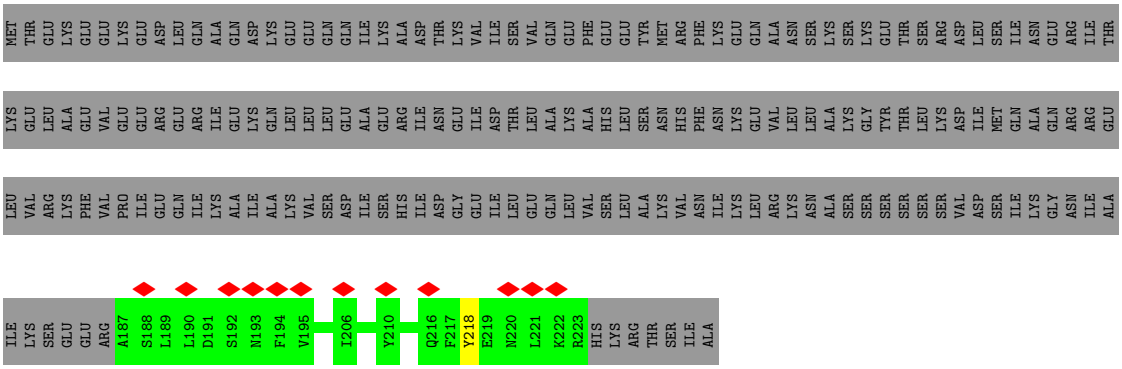
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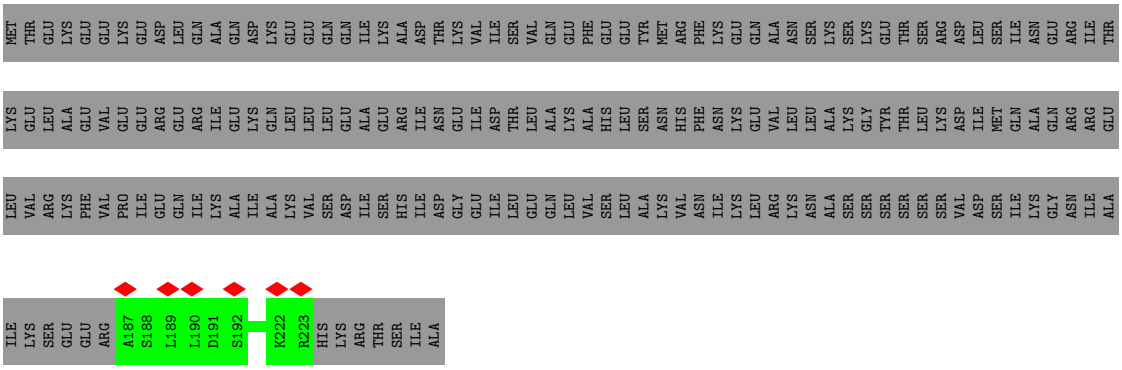
• Molecule 5: Scaffold protein





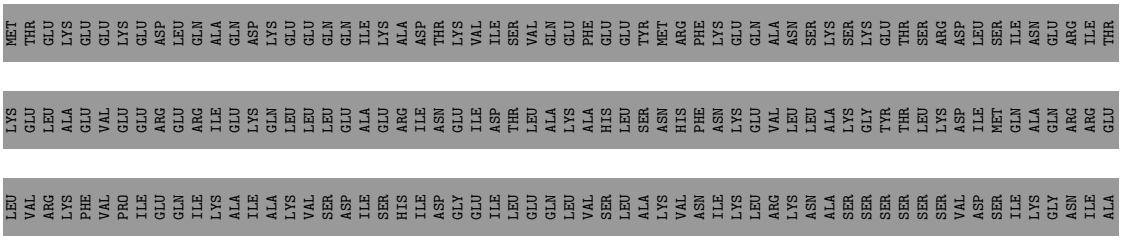
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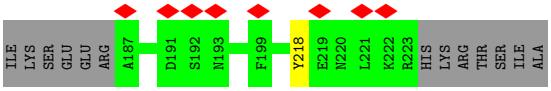




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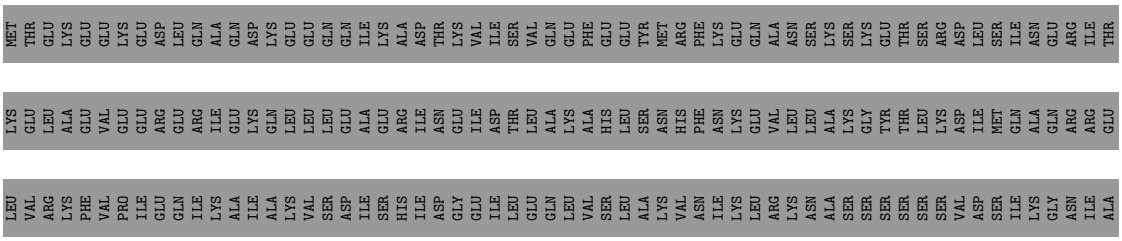


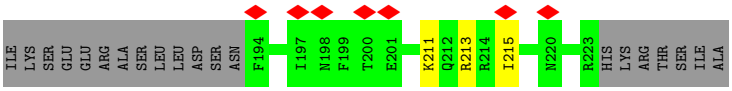


• Molecule 5: Scaffold protein

Chain SA:



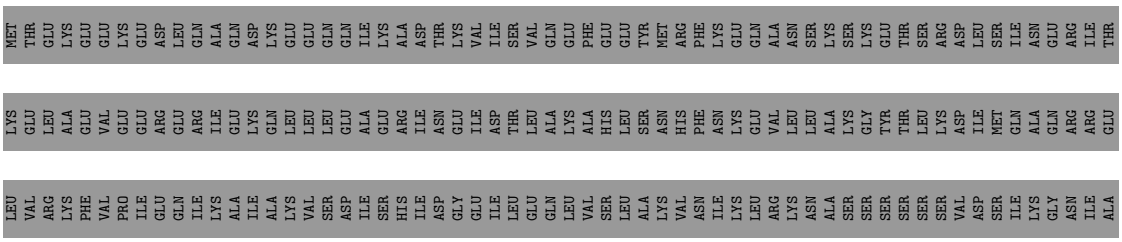


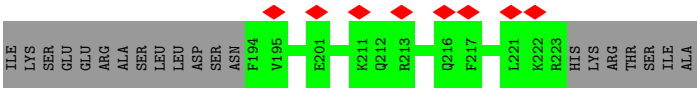


• Molecule 5: Scaffold protein

Chain SB:





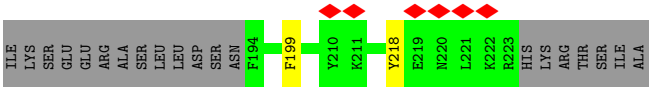


• Molecule 5: Scaffold protein

Chain SC:

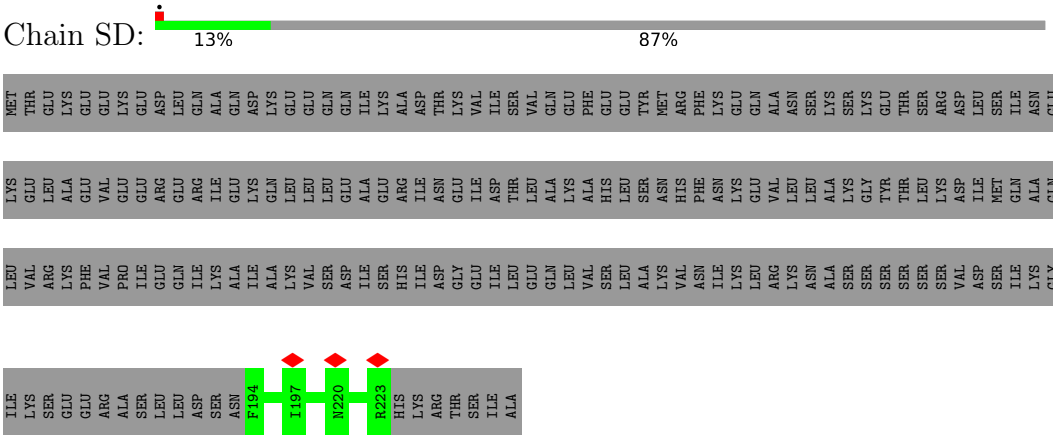






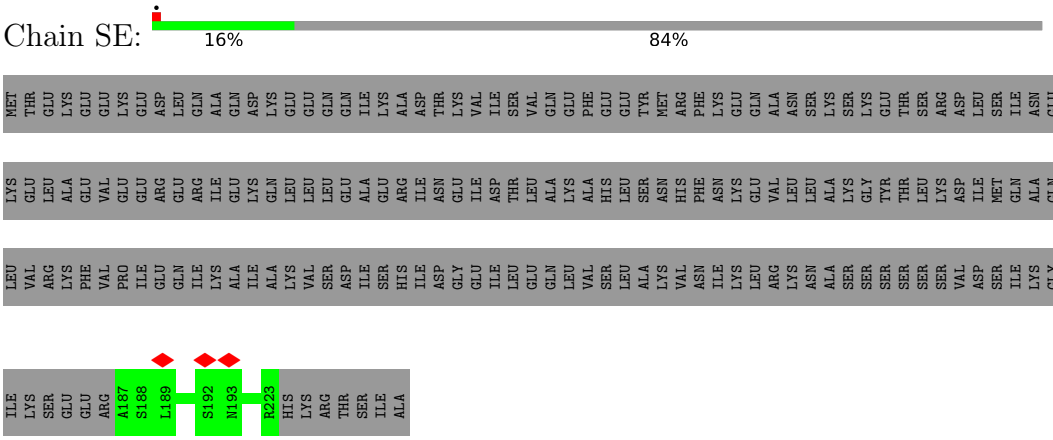
• Molecule 5: Scaffold protein

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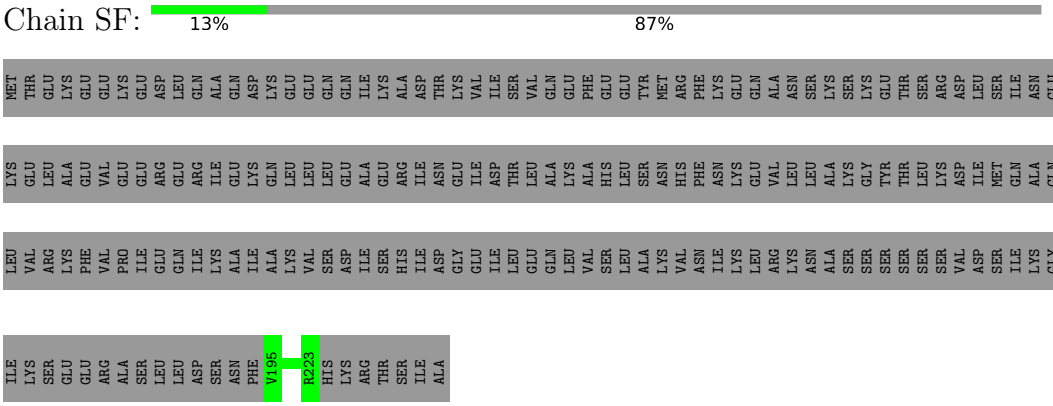
• Molecule 5: Scaffold protein

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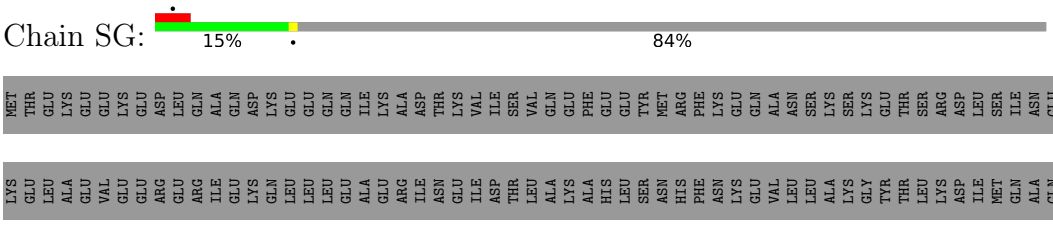
• Molecule 5: Scaffold protein

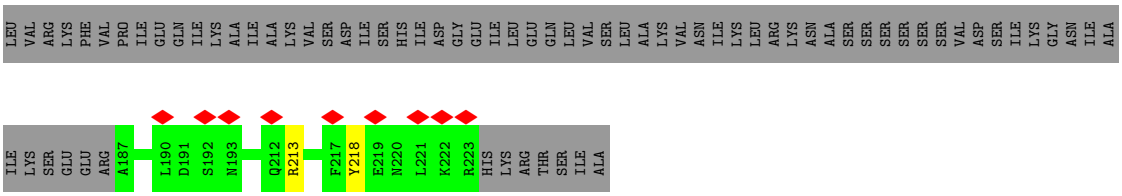
Chain SF:



• Molecule 5: Scaffold protein

Chain SG:





• Molecule 5: Scaffold protein

Chain SH:





• Molecule 5: Scaffold protein

Chain SI:





• Molecule 5: Scaffold protein

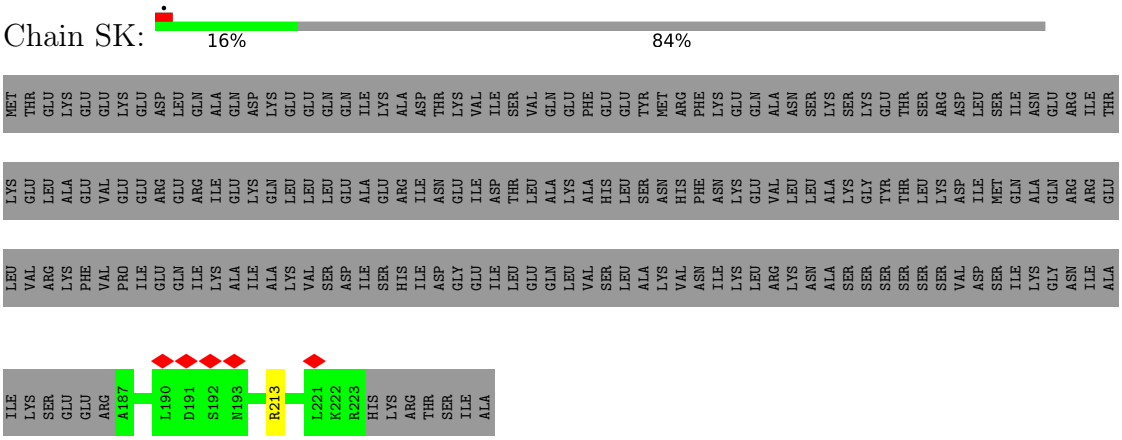
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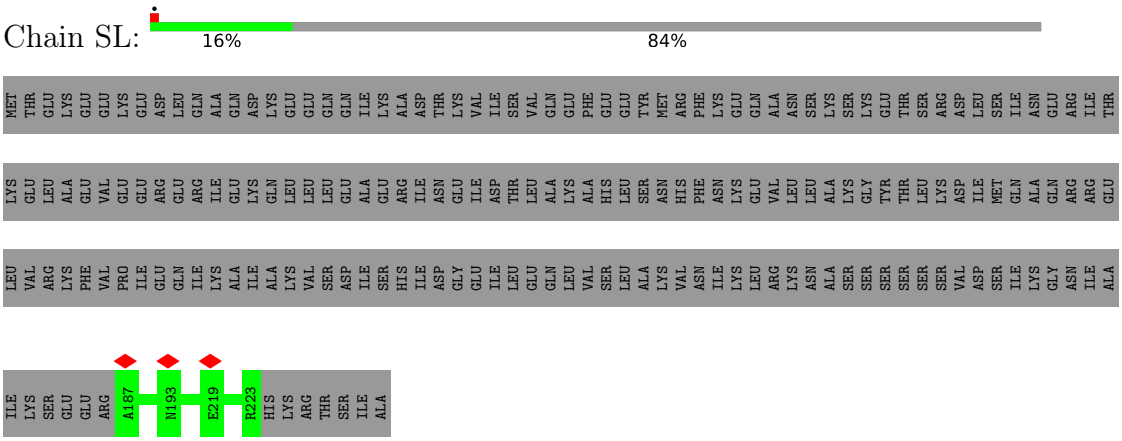
• Molecule 5: Scaffold protein

Chain SK:



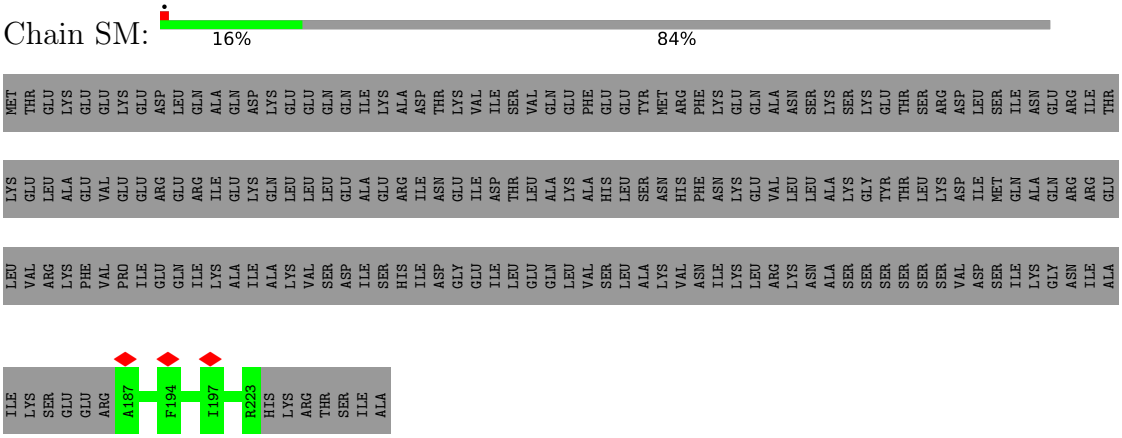
• Molecule 5: Scaffold protein

Chain SL:



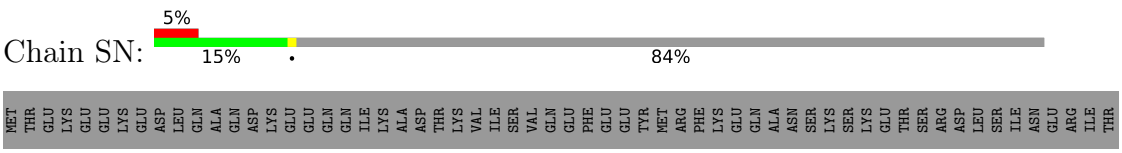
• Molecule 5: Scaffold protein

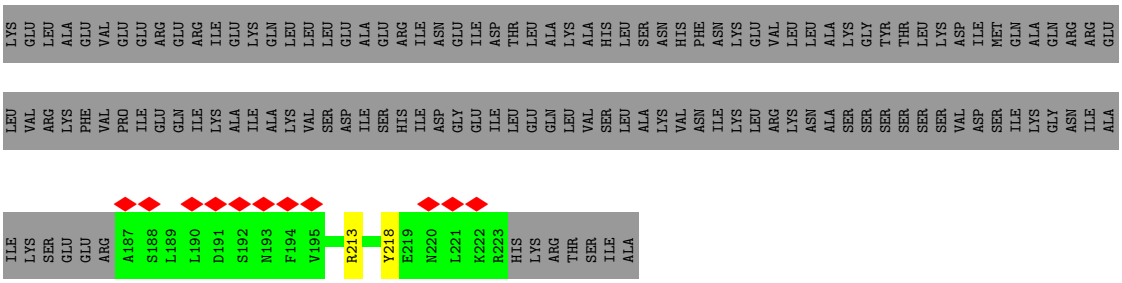
Chain SM:



• Molecule 5: Scaffold protein

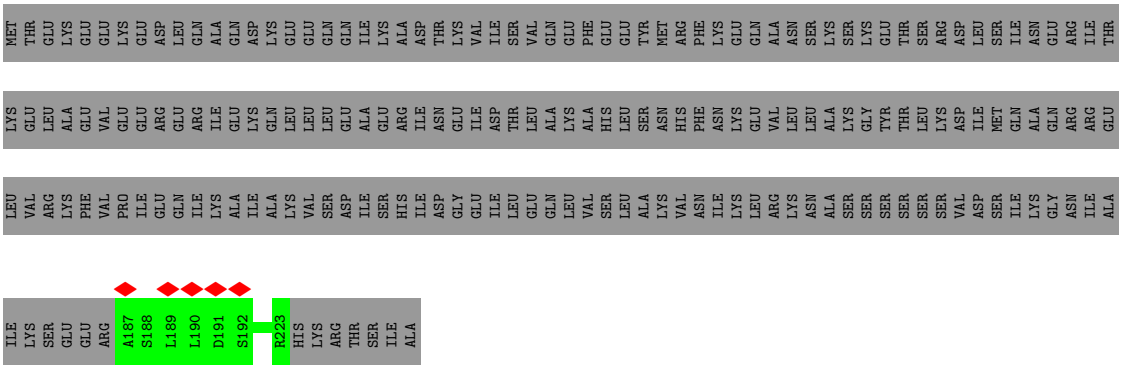
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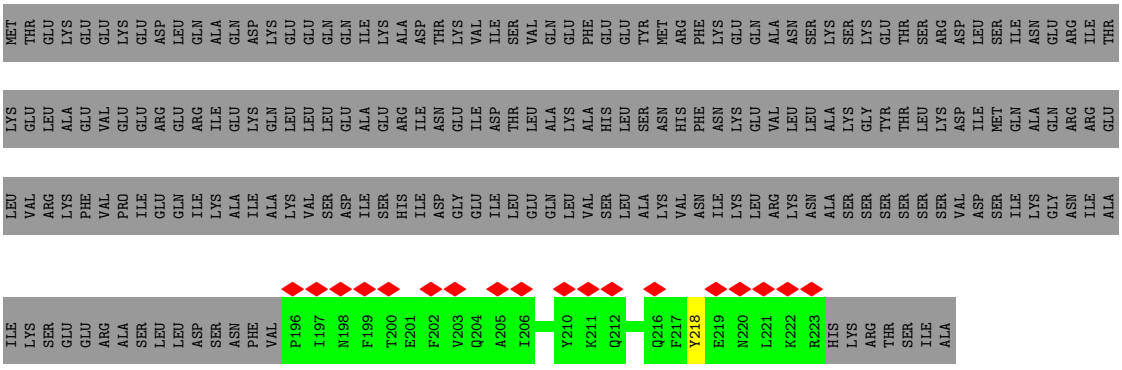
• Molecule 5: Scaffold protein





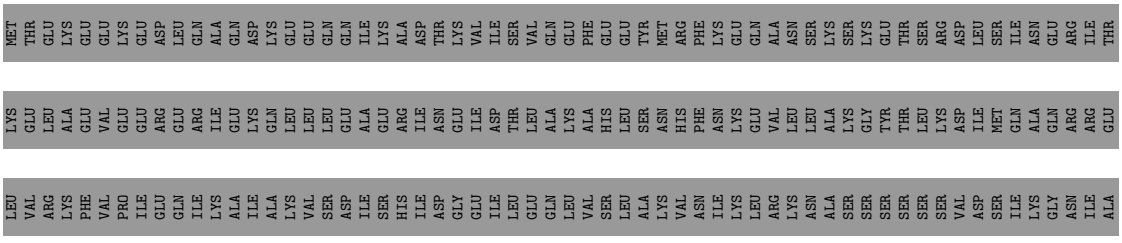
• Molecule 5: Scaffold protein

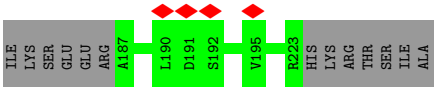




• Molecule 5: Scaffold protein



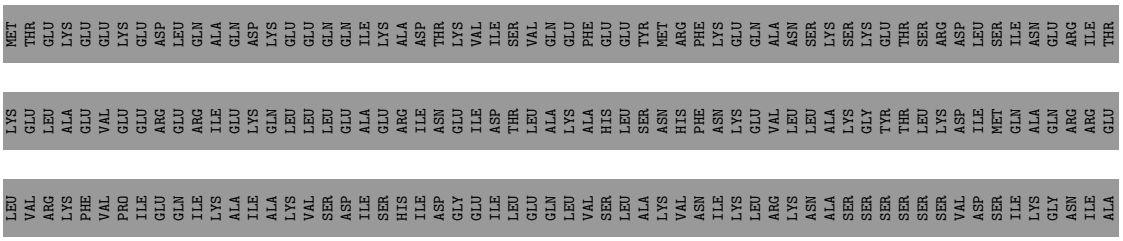


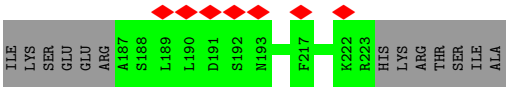


• Molecule 5: Scaffold protein

Chain SR:



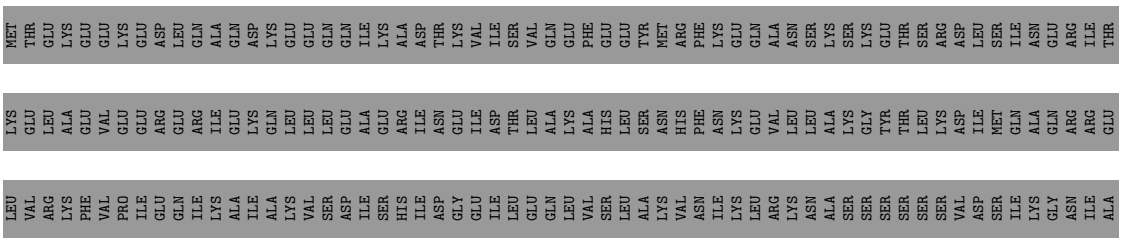


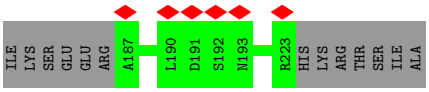


• Molecule 5: Scaffold protein

Chain SS:





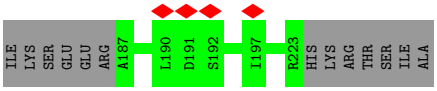


• Molecule 5: Scaffold protein

Chain ST:

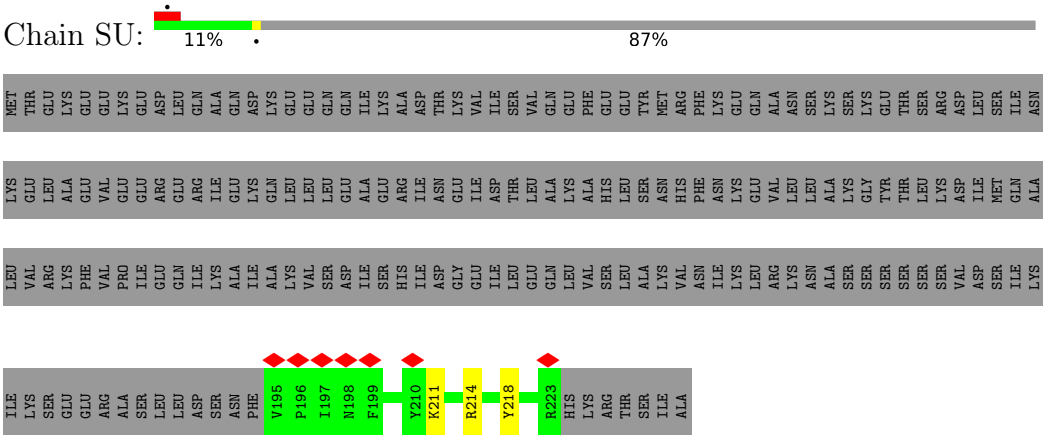






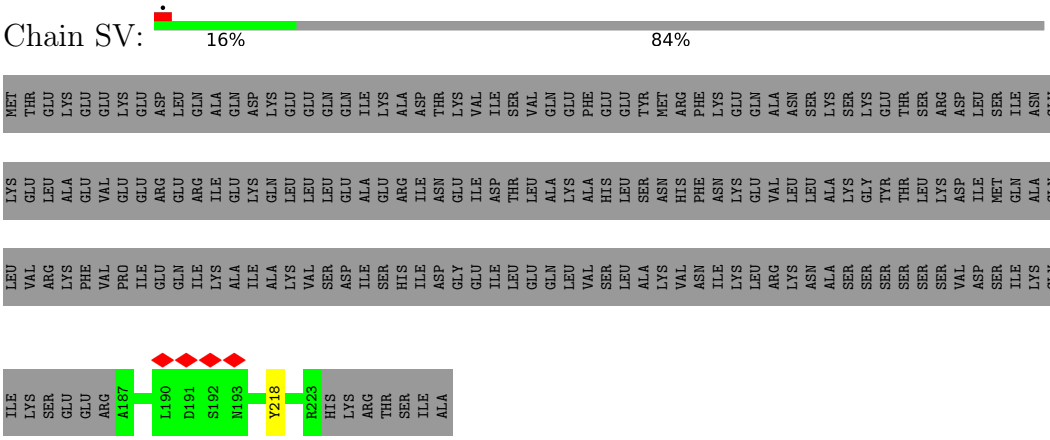
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Chain SU:



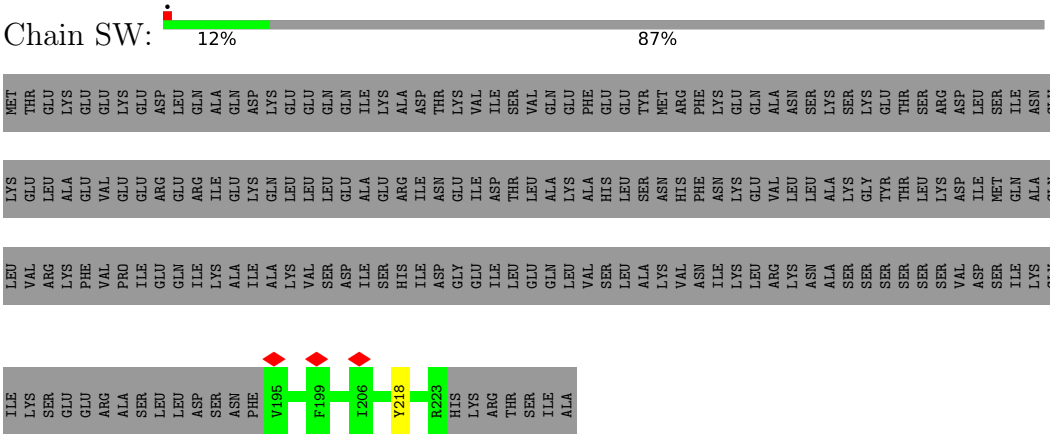
• Molecule 5: Scaffold protein

Chain SV:



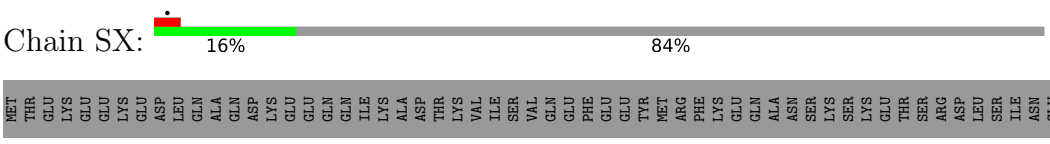
• Molecule 5: Scaffold protein

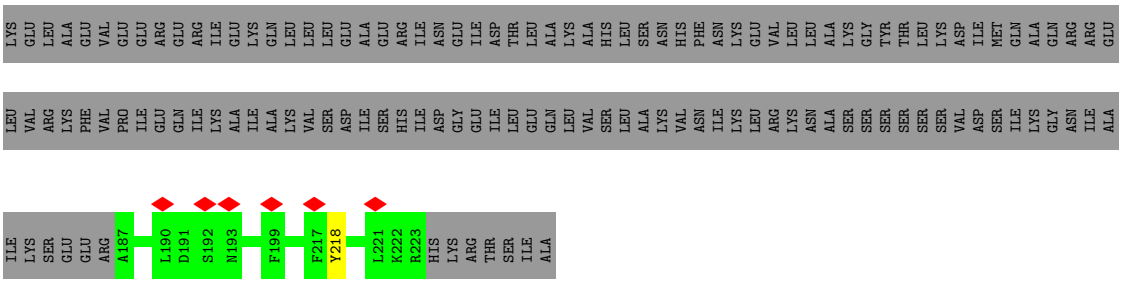
Chain SW:



• Molecule 5: Scaffold protein

Chain SX:

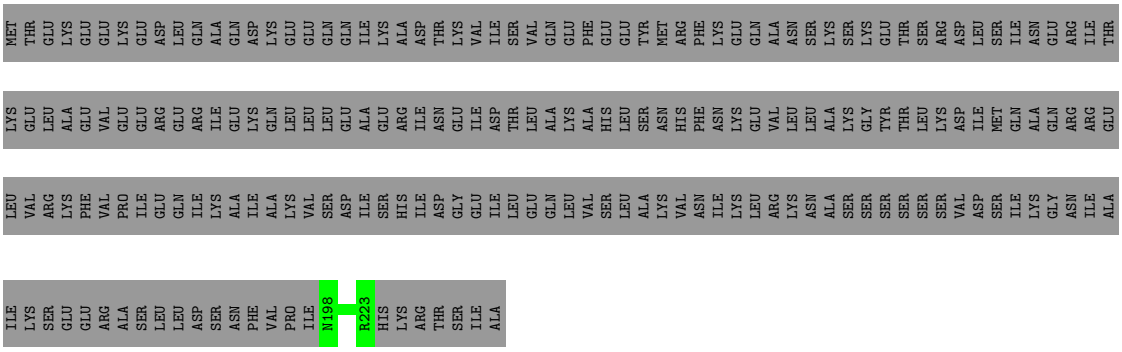




• Molecule 5: Scaffold protein

Chain SY:

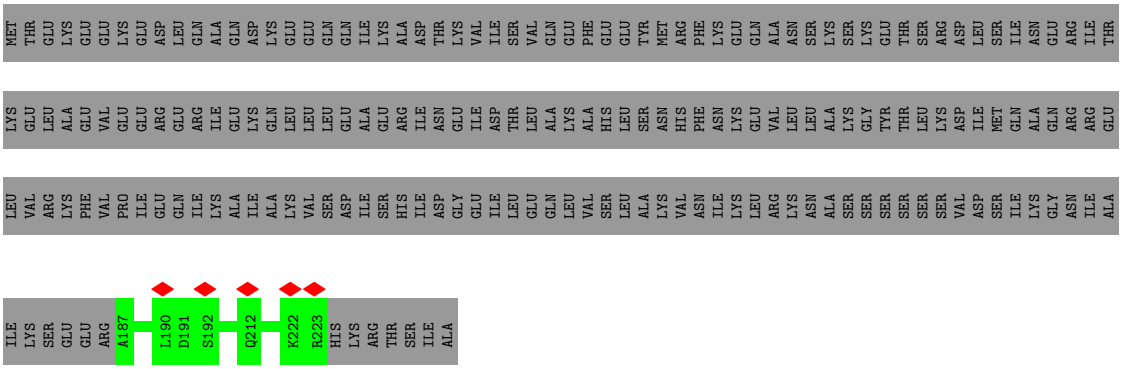




• Molecule 5: Scaffold protein

Chain SZ:



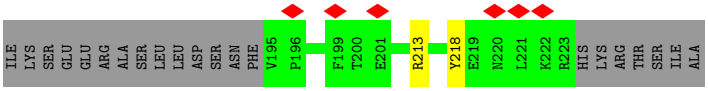


• Molecule 5: Scaffold protein

Chain Sa:



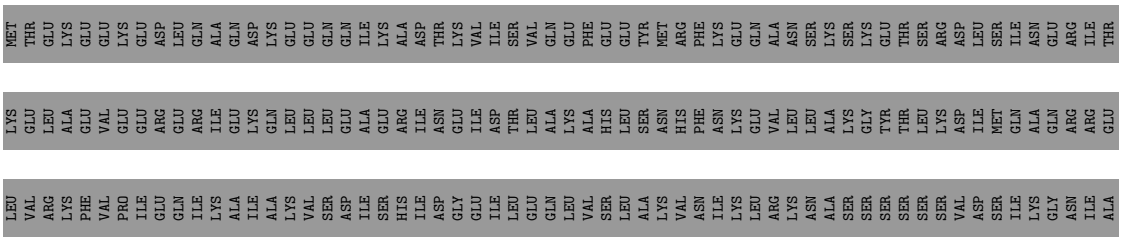


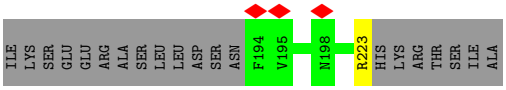


• Molecule 5: Scaffold protein

Chain Sb:



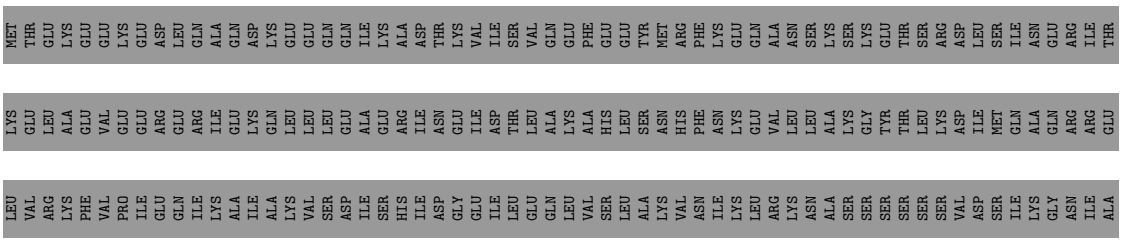


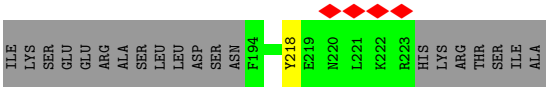


• Molecule 5: Scaffold protein

Chain Sc:



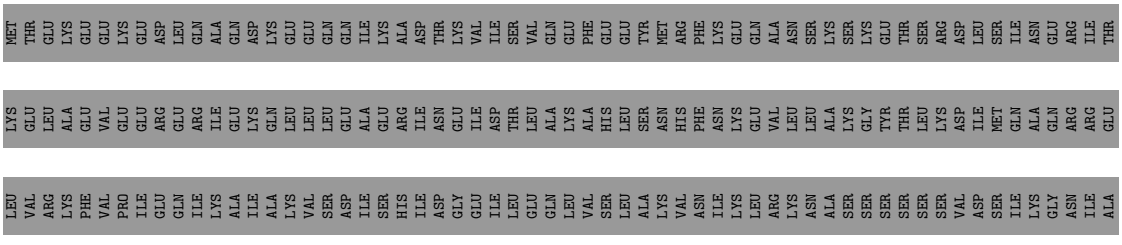


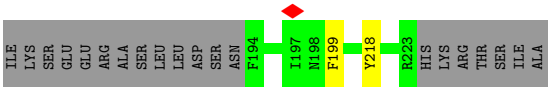


• Molecule 5: Scaffold protein

Chain Sd:

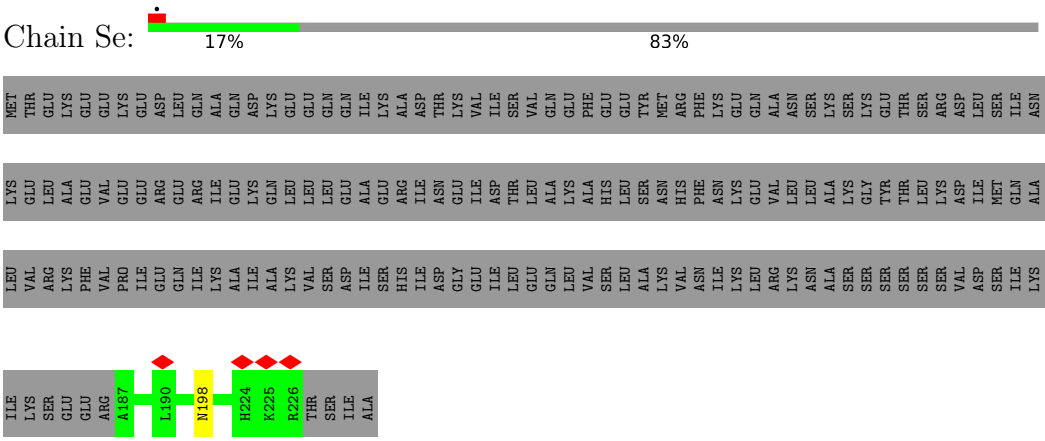






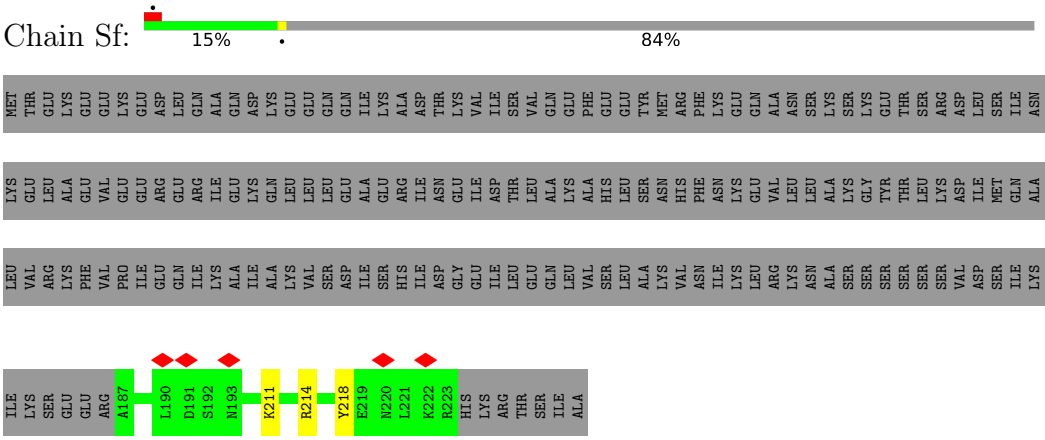
• Molecule 5: Scaffold protein

Chain Se:



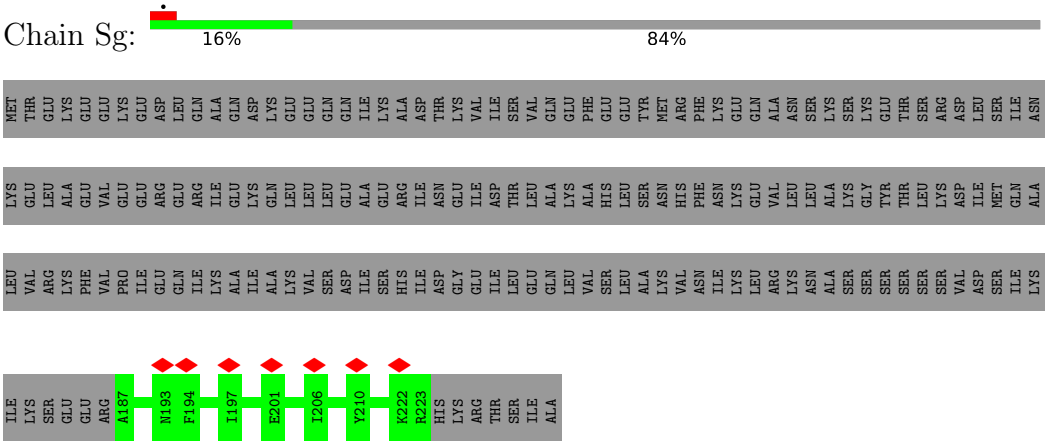
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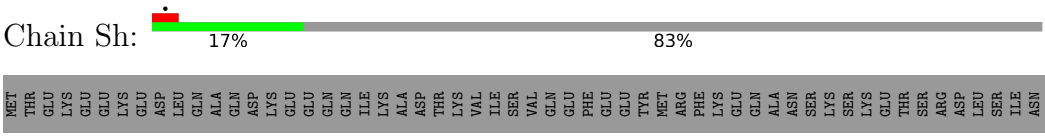
• Molecule 5: Scaffold protein

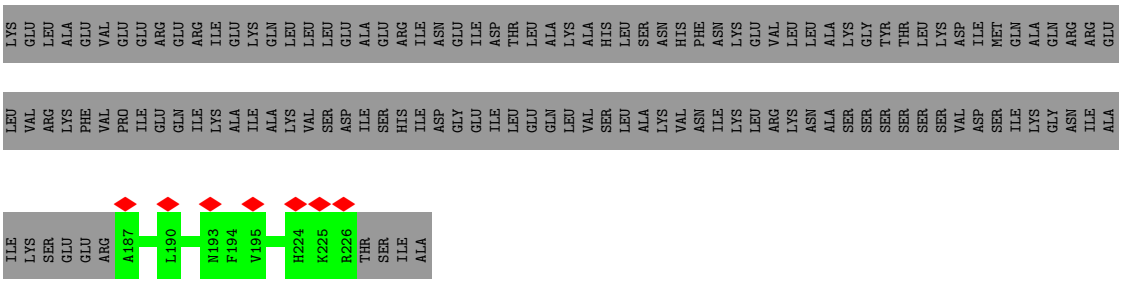
Chain Sg:



• Molecule 5: Scaffold protein

Chain Sh:





• Molecule 5: Scaffold protein

Chain Si:





• Molecule 5: Scaffold protein

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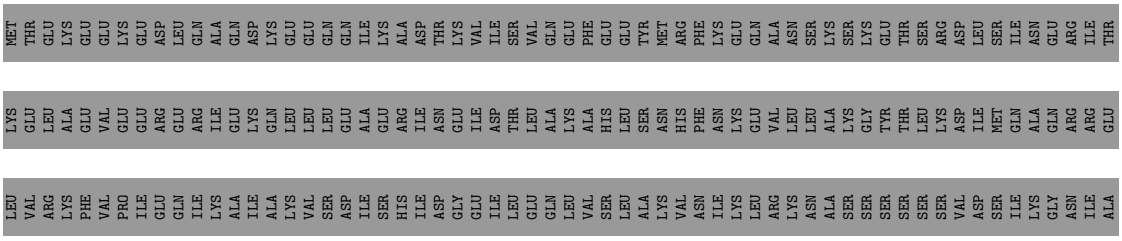


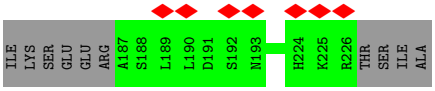


• Molecule 5: Scaffold protein

Chain Sk:



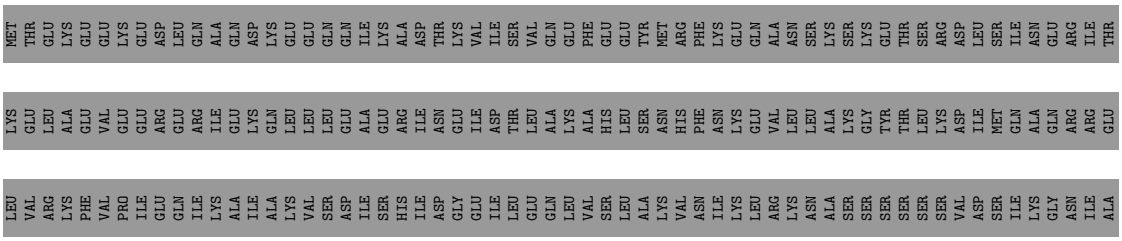


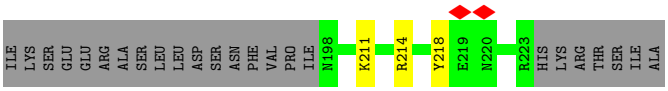


• Molecule 5: Scaffold protein

Chain Sl:





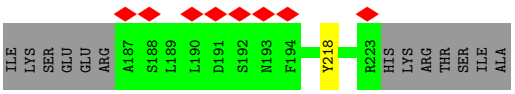


• Molecule 5: Scaffold protein

Chain Sm:





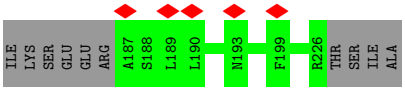


• Molecule 5: Scaffold protein

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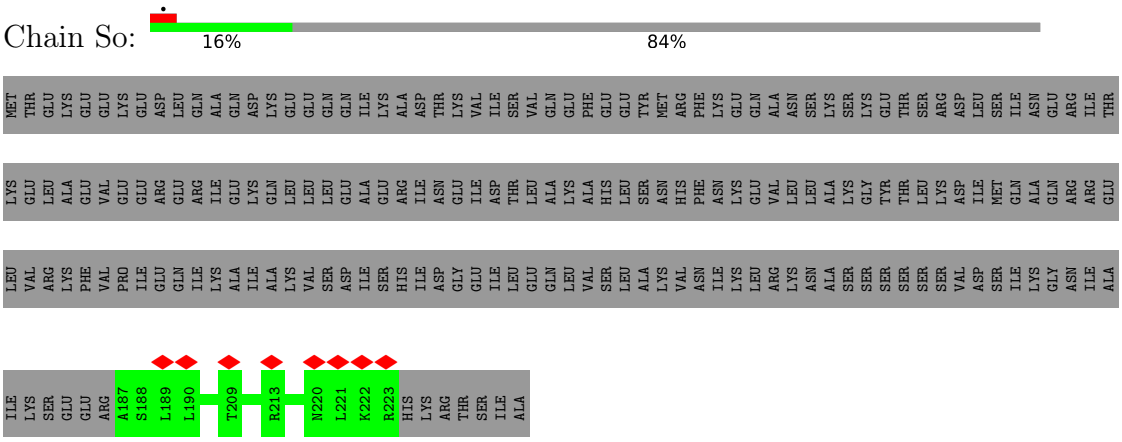






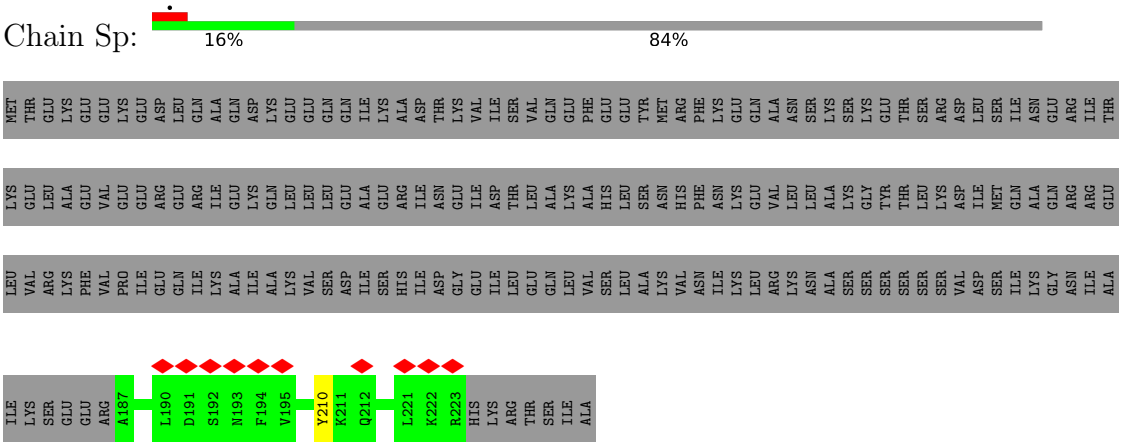
• Molecule 5: Scaffold protein

Chain So:



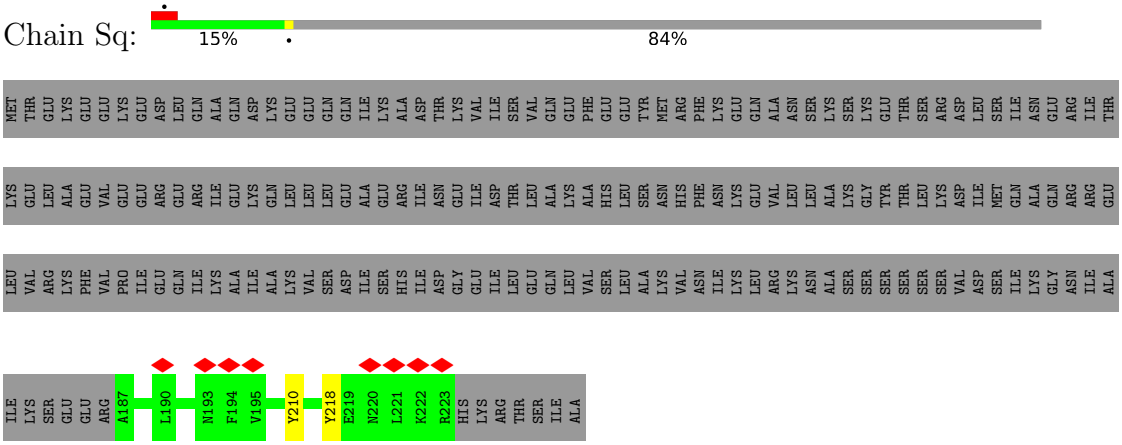
• Molecule 5: Scaffold protein

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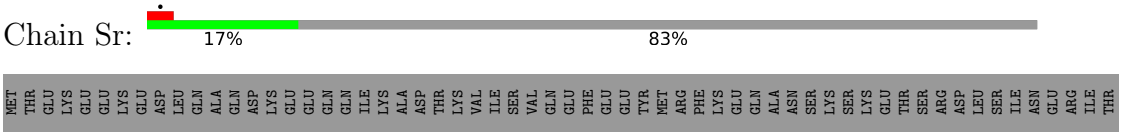
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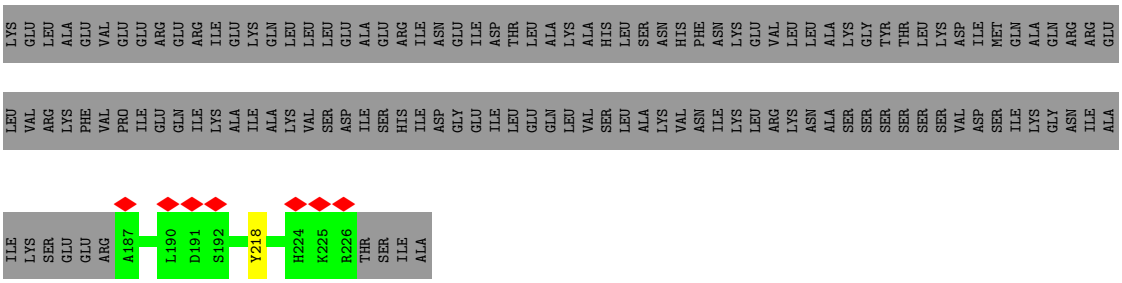
Chain Sq:



• Molecule 5: Scaffold protein

Chain Sr:





• Molecule 5: Scaffold protein





• Molecule 5: Scaffold protein

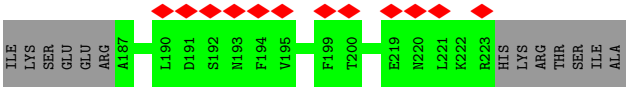




• Molecule 5: Scaffold protein



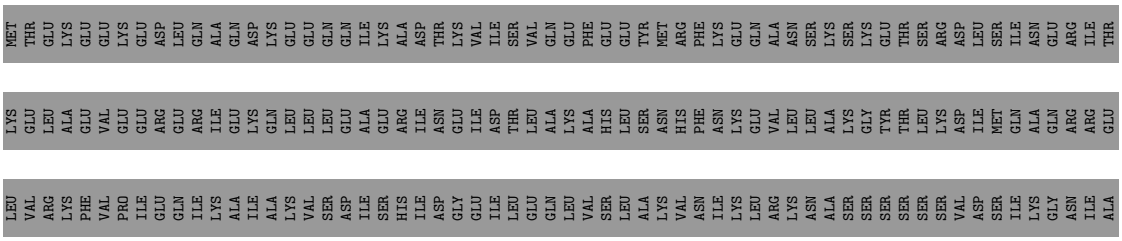


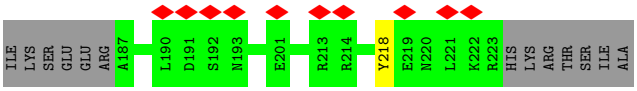


• Molecule 5: Scaffold protein

Chain Sv:



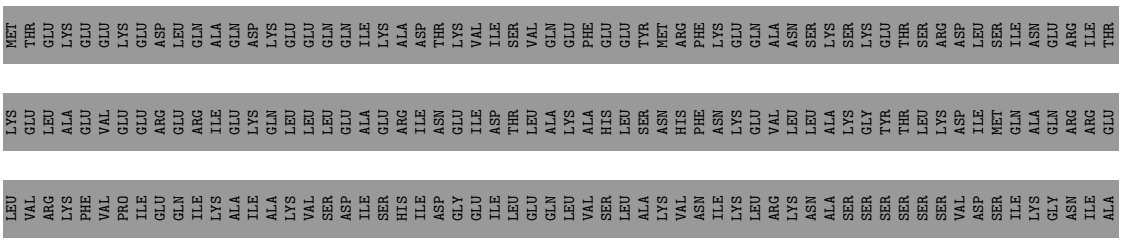


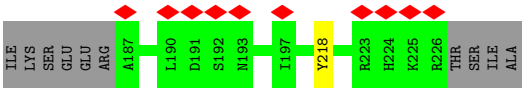


• Molecule 5: Scaffold protein

Chain Sw:





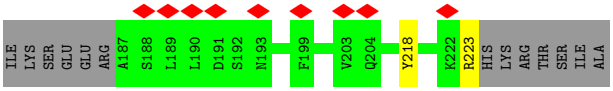


• Molecule 5: Scaffold protein

Chain Sx:

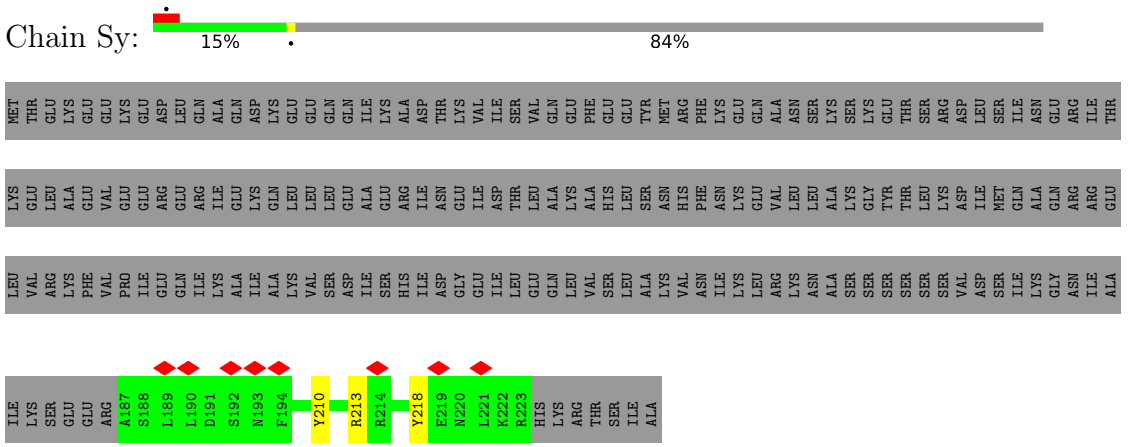






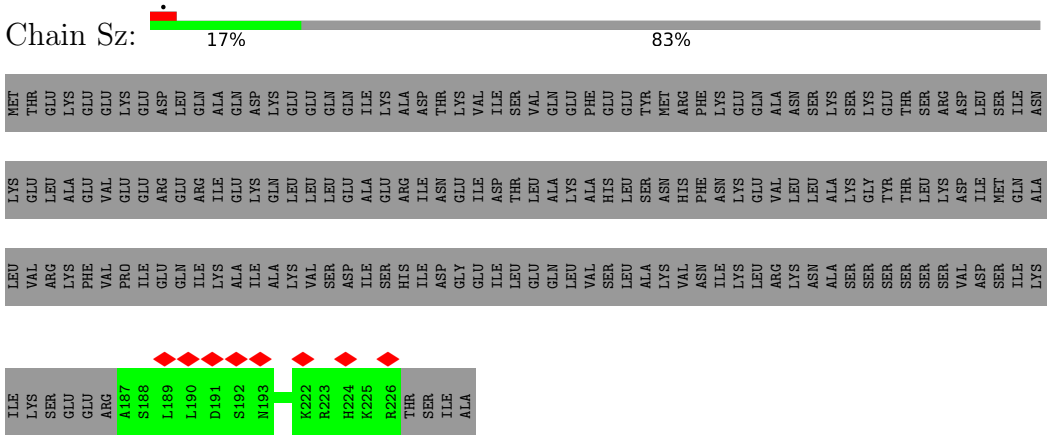
• Molecule 5: Scaffold protein

Chain Sy:



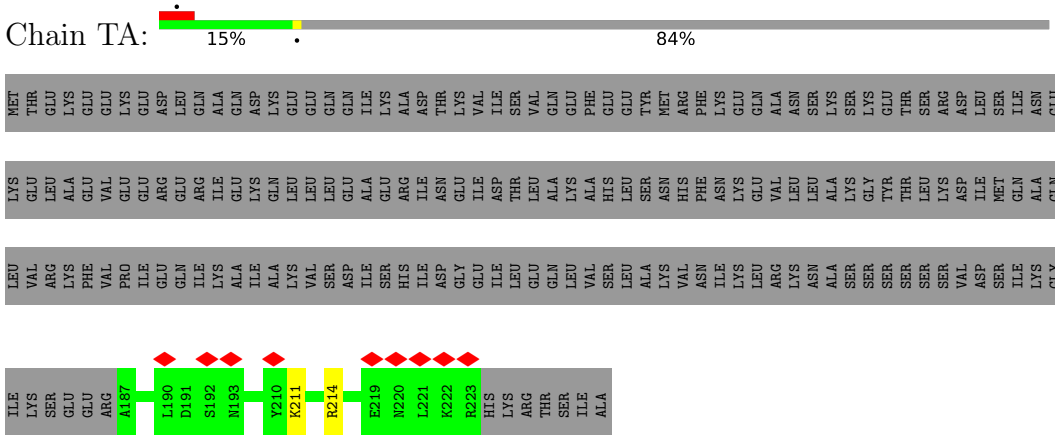
• Molecule 5: Scaffold protein

Chain Sz:



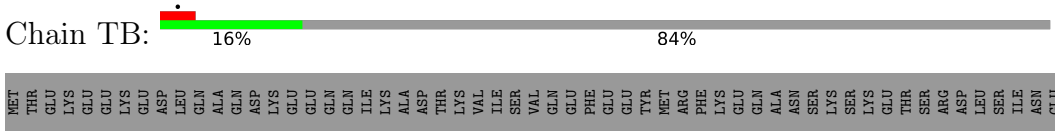
• Molecule 5: Scaffold protein

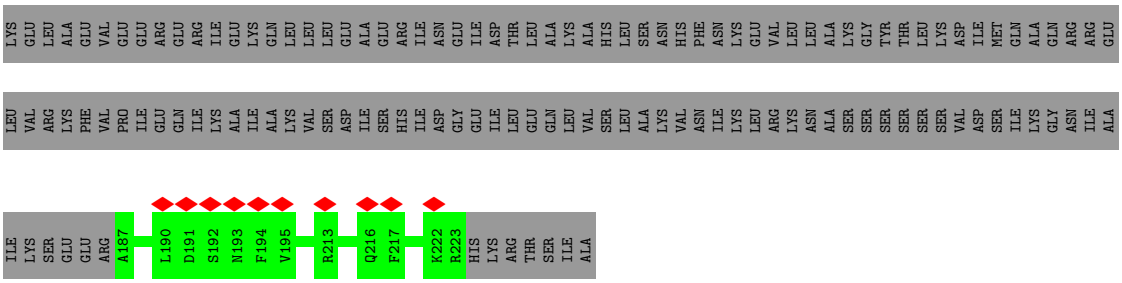
Chain TA:



• Molecule 5: Scaffold protein

Chain TB:



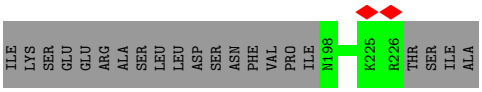


• Molecule 5: Scaffold protein

Chain TC:





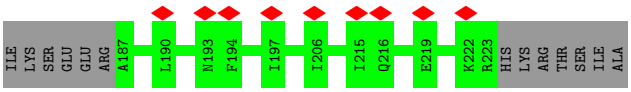


• Molecule 5: Scaffold protein

Chain TD:







• Molecule 5: Scaffold protein

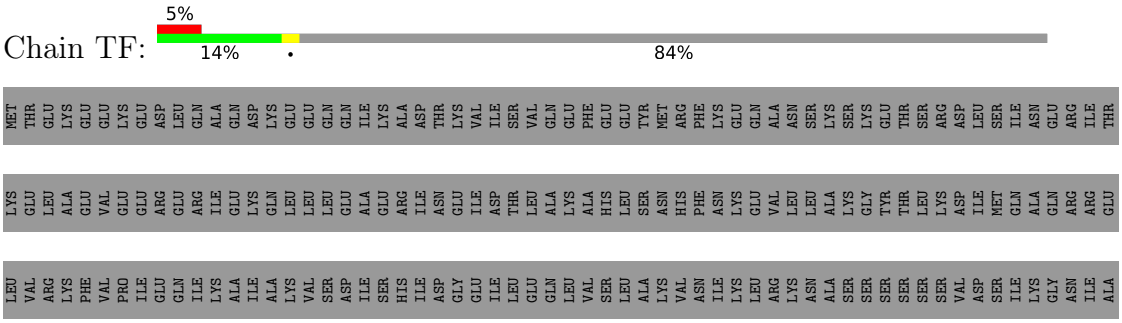
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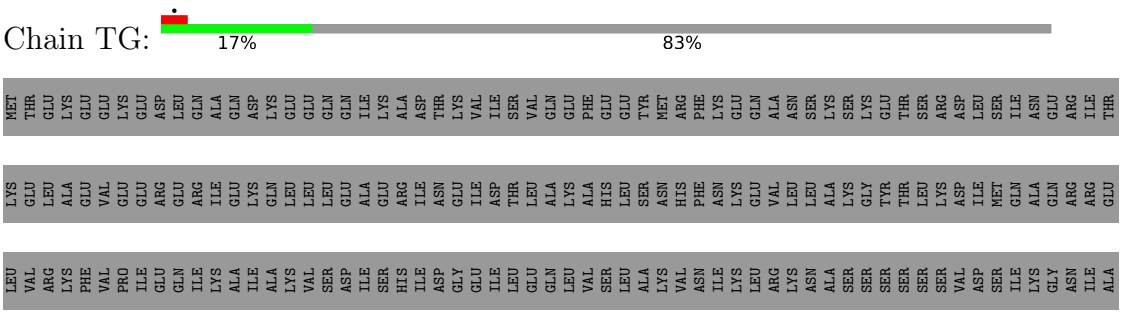




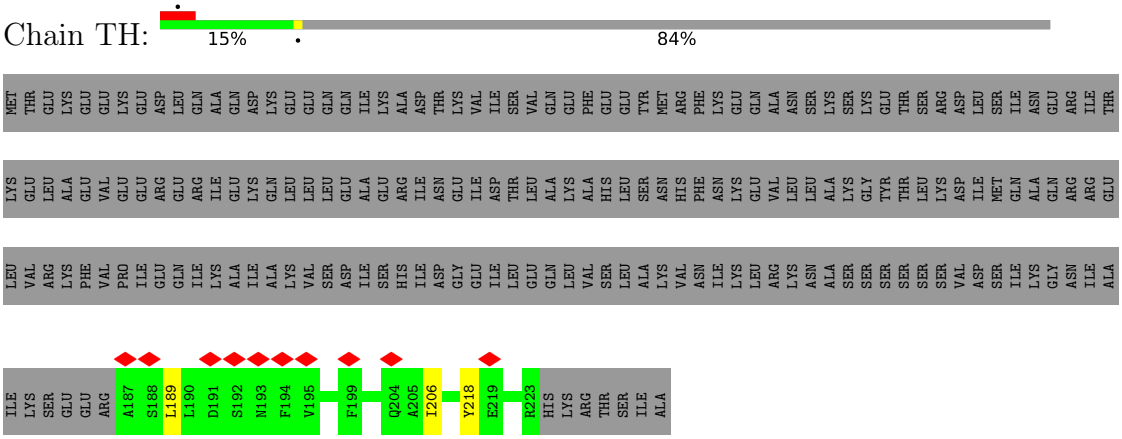
• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

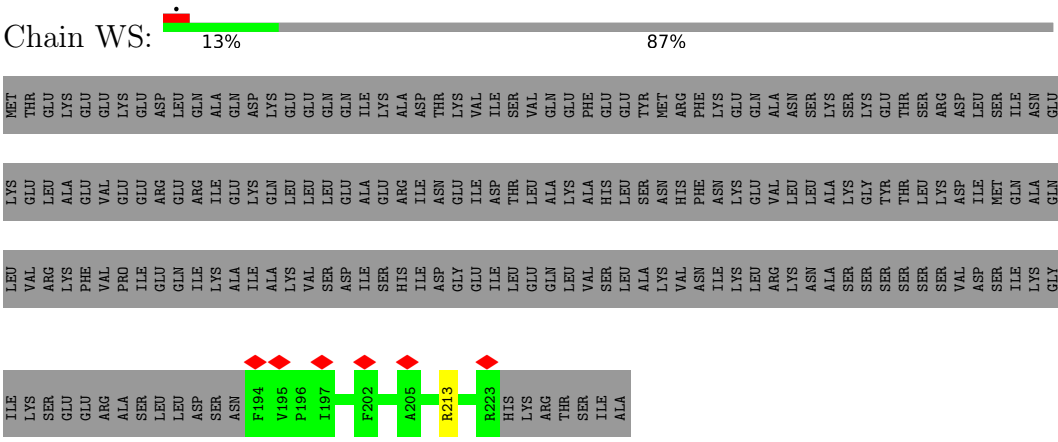


• Molecule 5: Scaffold protein



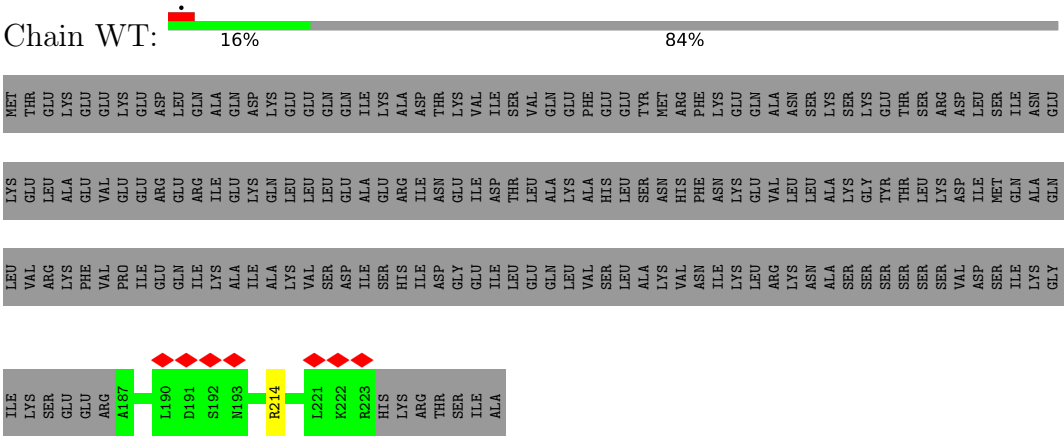
• Molecule 5: Scaffold protein

Chain WS:



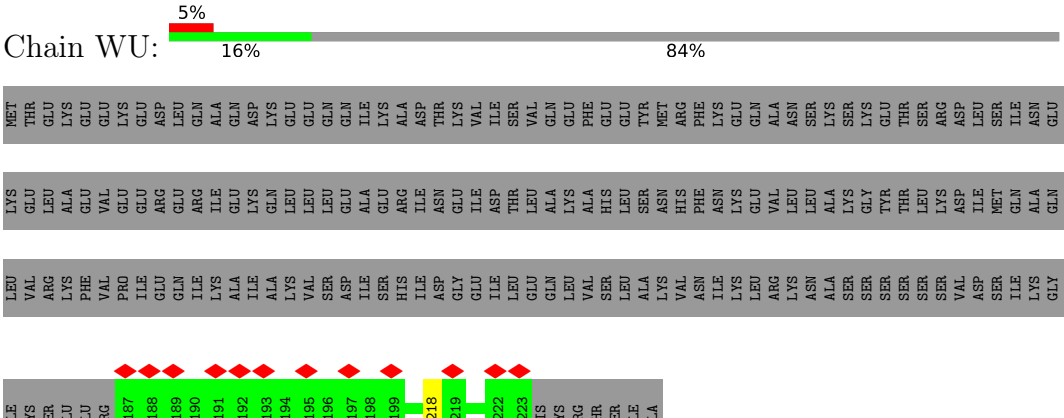
• Molecule 5: Scaffold protein

Chain WT:



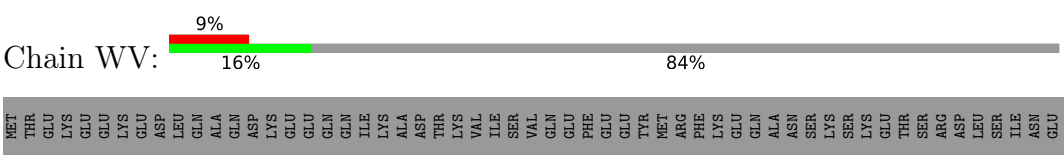
• Molecule 5: Scaffold protein

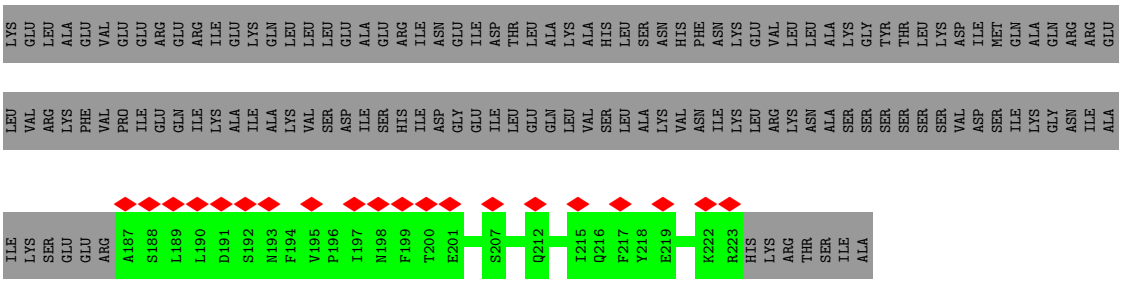
Chain WU:



• Molecule 5: Scaffold protein

Chain WV:

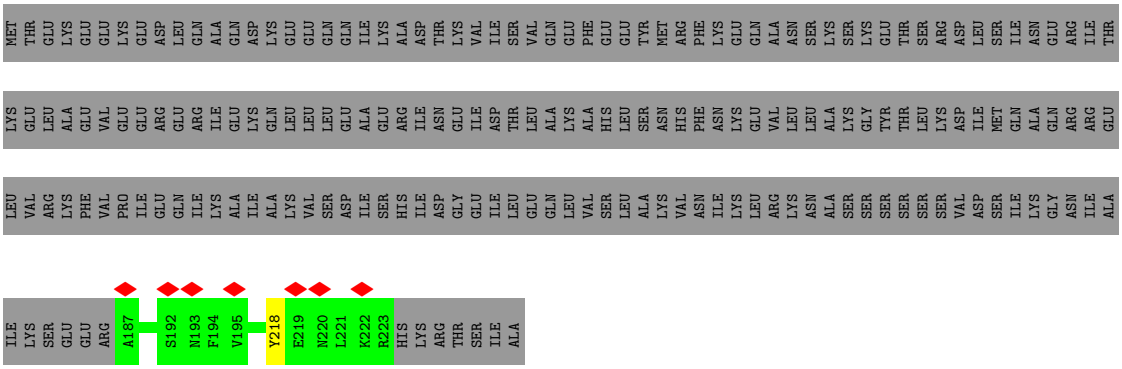




• Molecule 5: Scaffold protein

Chain WW:

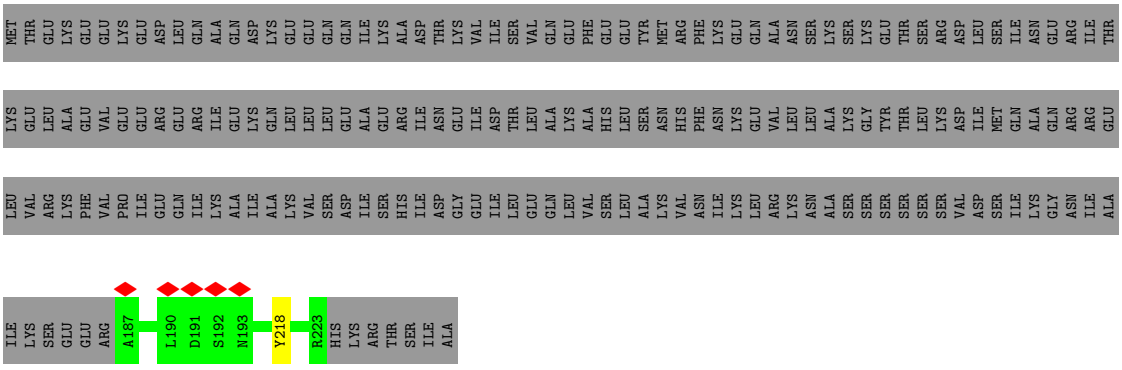




• Molecule 5: Scaffold protein

Chain WX:

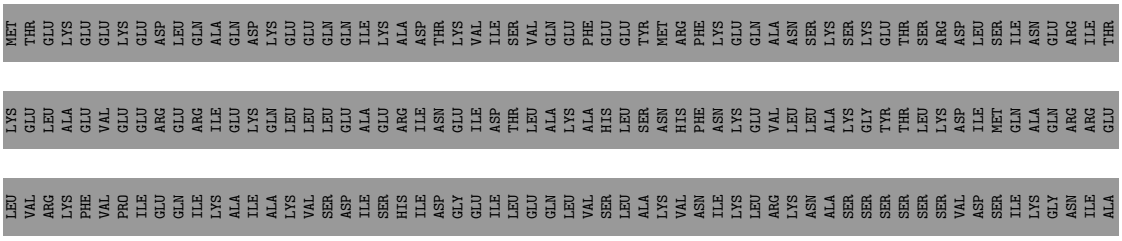


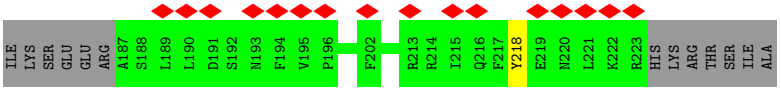


• Molecule 5: Scaffold protein

Chain WY:



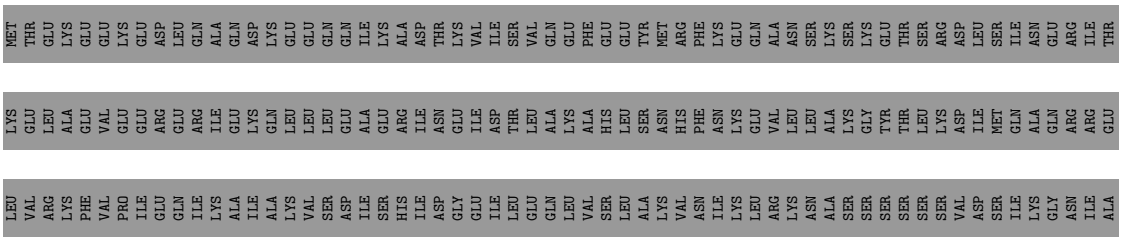


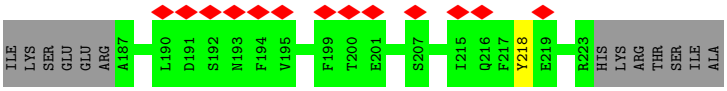


• Molecule 5: Scaffold protein

Chain WZ:



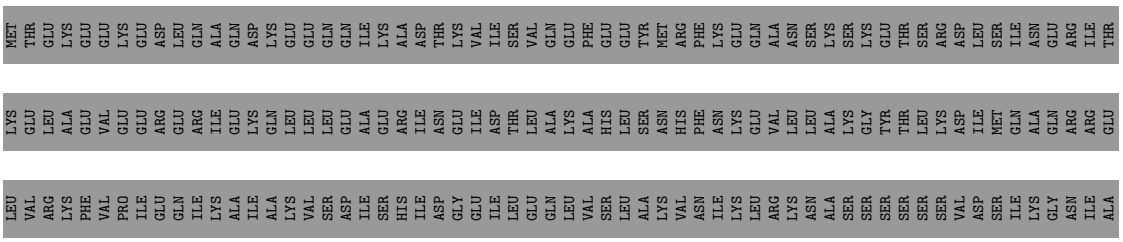


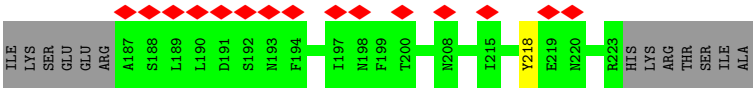


• Molecule 5: Scaffold protein

Chain Wa:





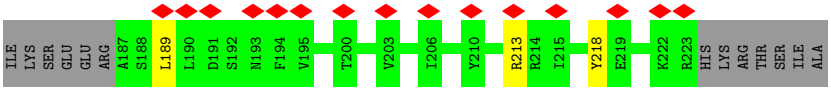


• Molecule 5: Scaffold protein

Chain Wb:

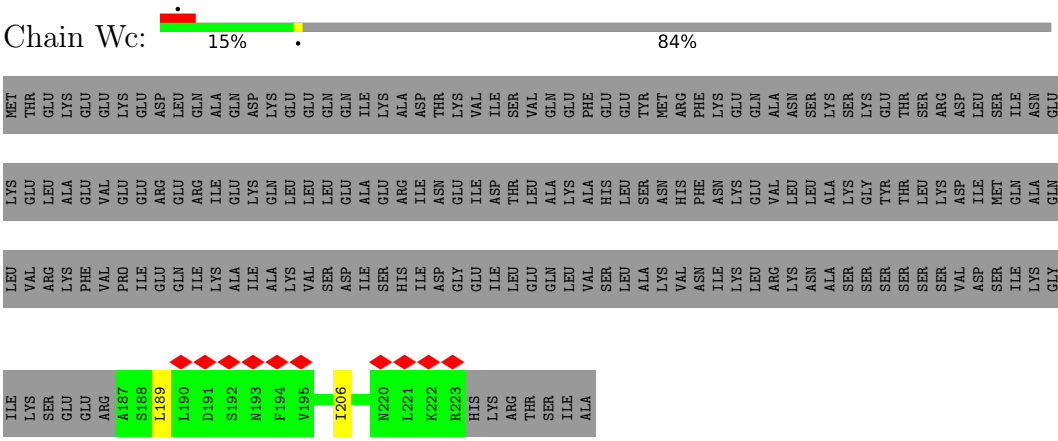






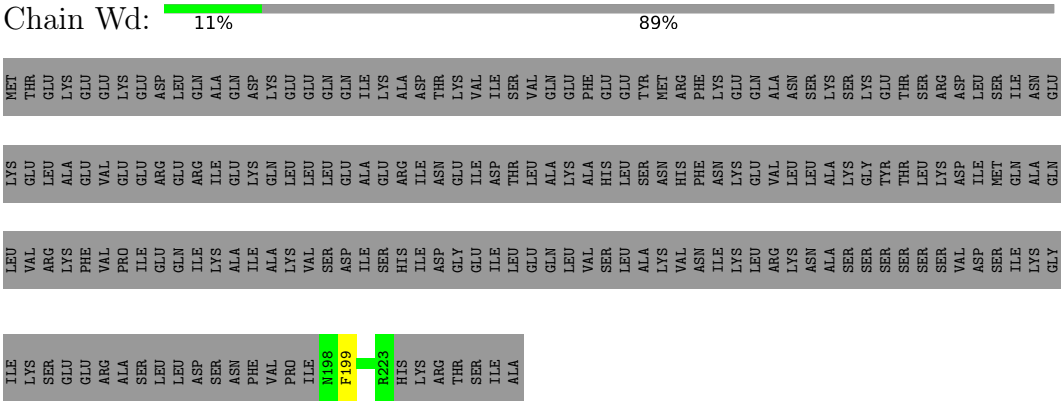
• Molecule 5: Scaffold protein

Chain Wc:



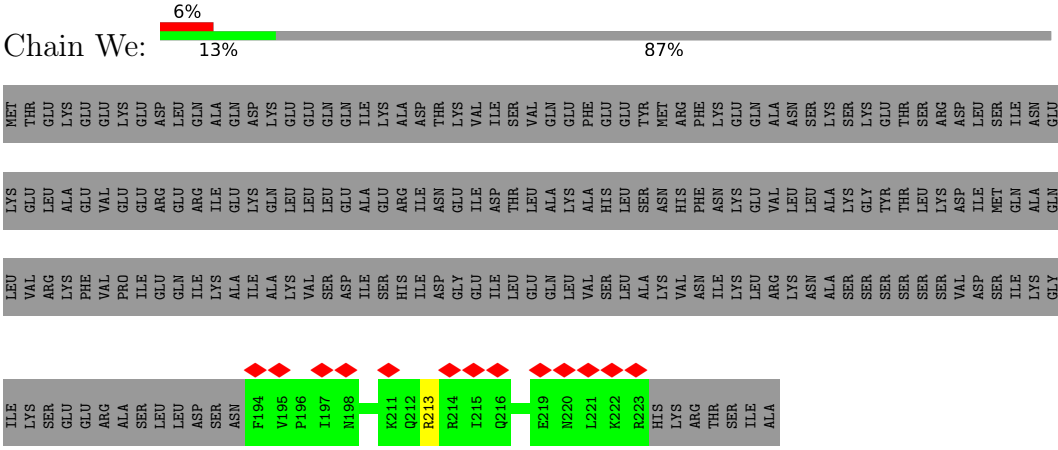
• Molecule 5: Scaffold protein

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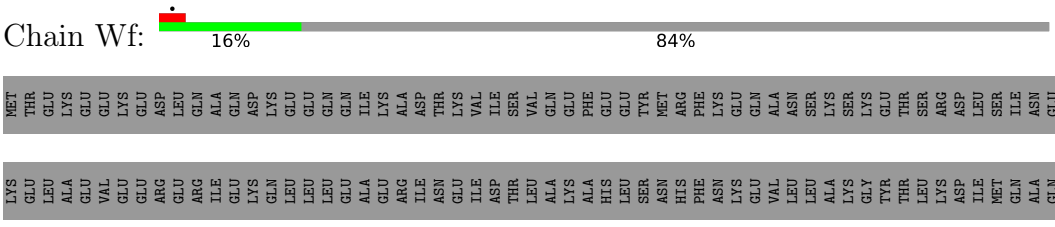
• Molecule 5: Scaffold protein

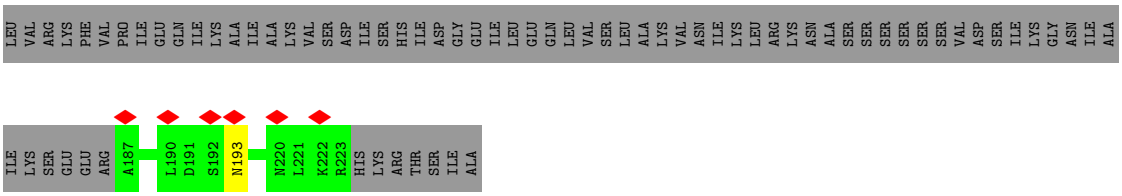
Chain We:



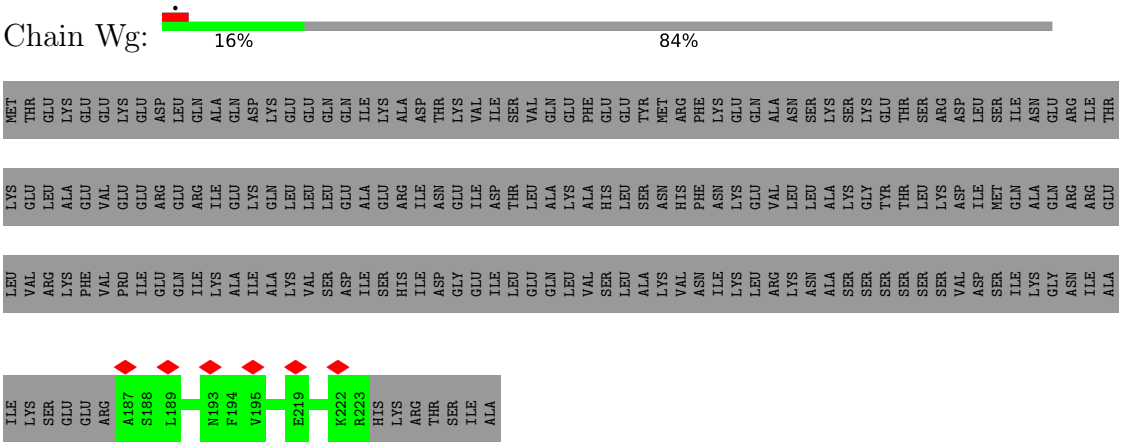
• Molecule 5: Scaffold protein

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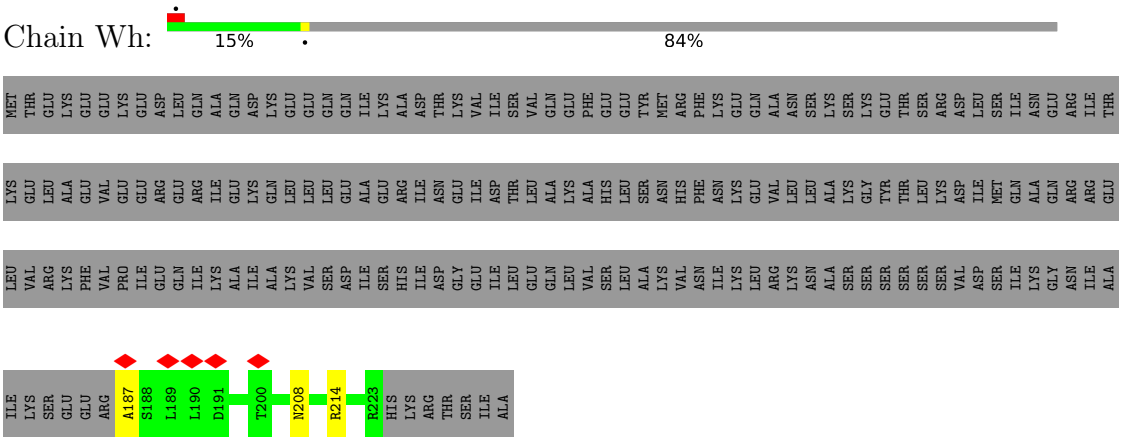




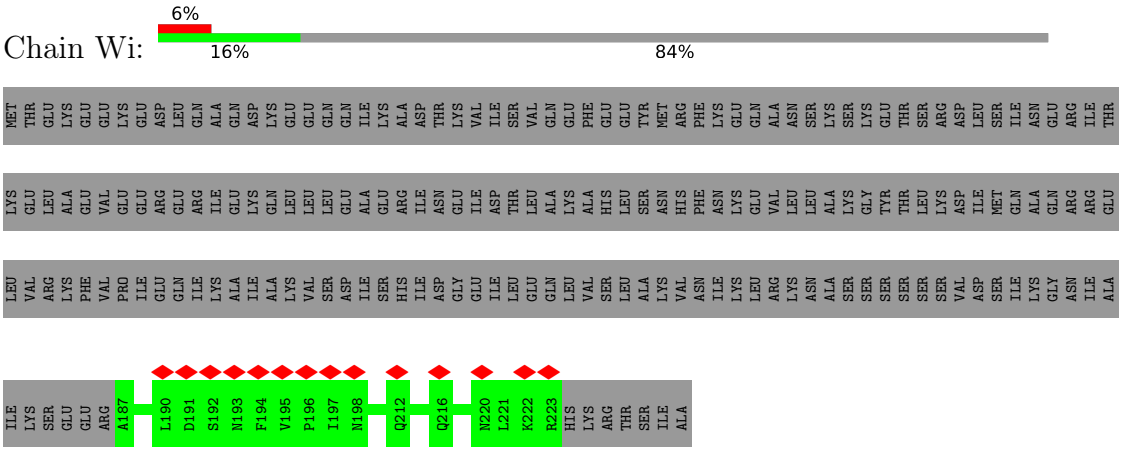
• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein



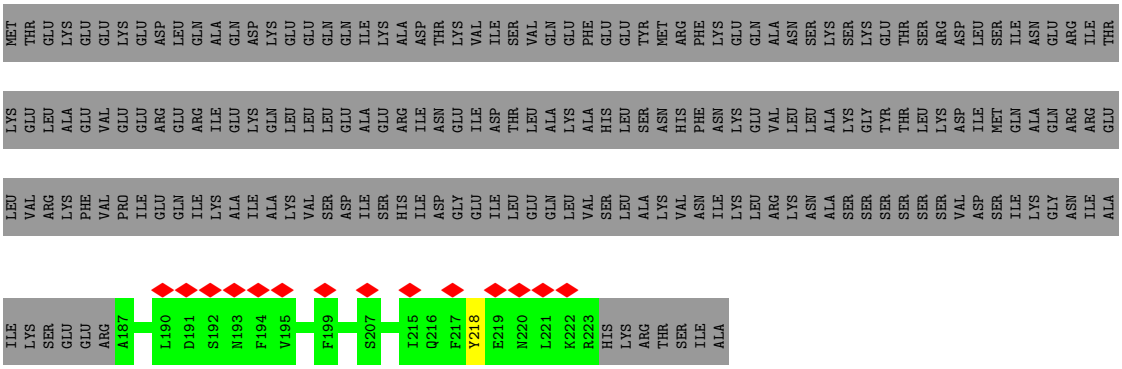
• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

Chain Wj:

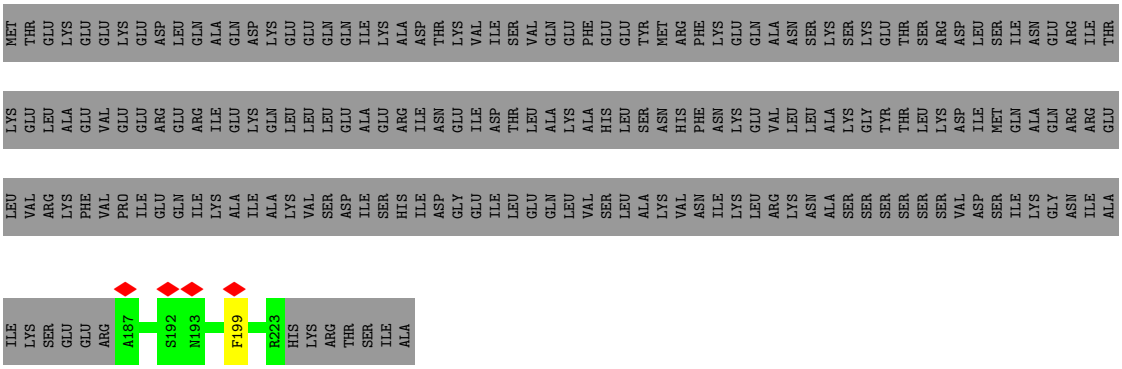




• Molecule 5: Scaffold protein

Chain Wk:

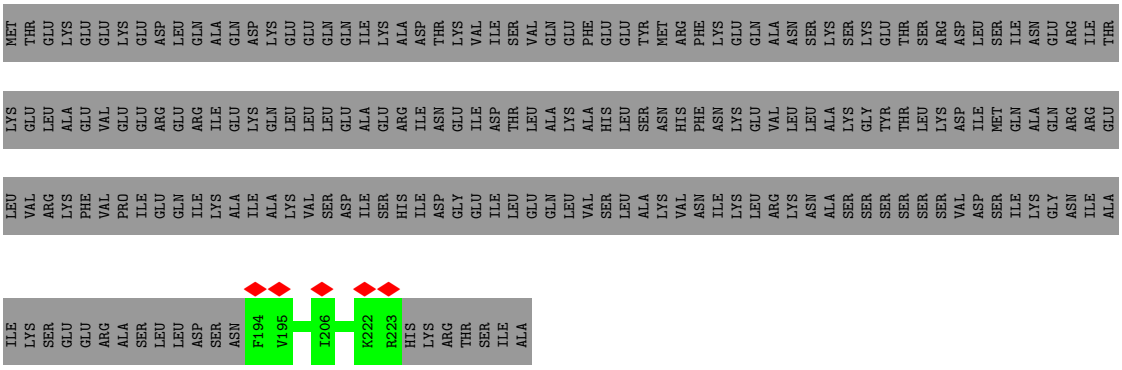




• Molecule 5: Scaffold protein

Chain Wl:



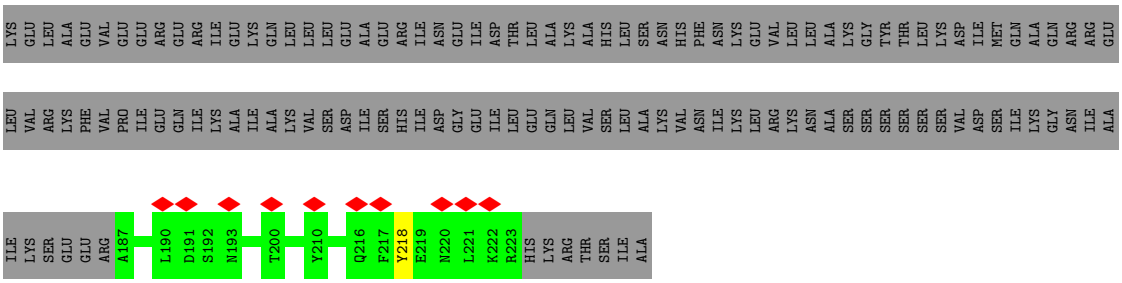


• Molecule 5: Scaffold protein

Chain Wm:



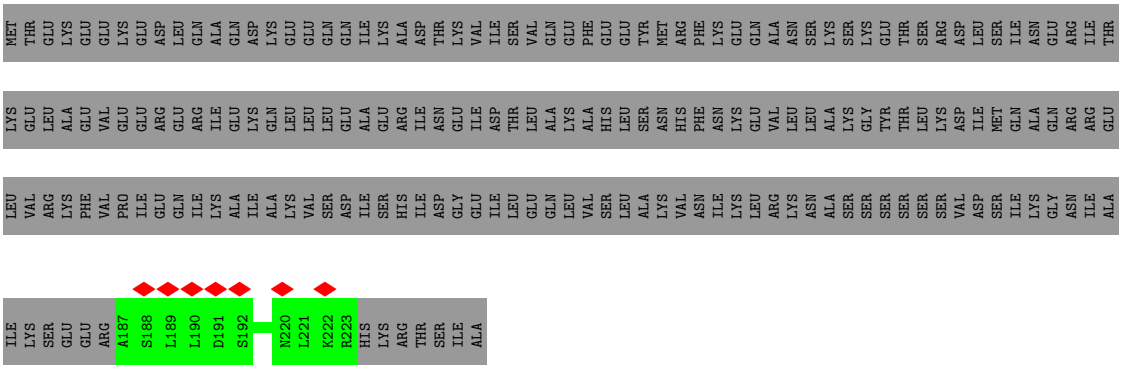




• Molecule 5: Scaffold protein

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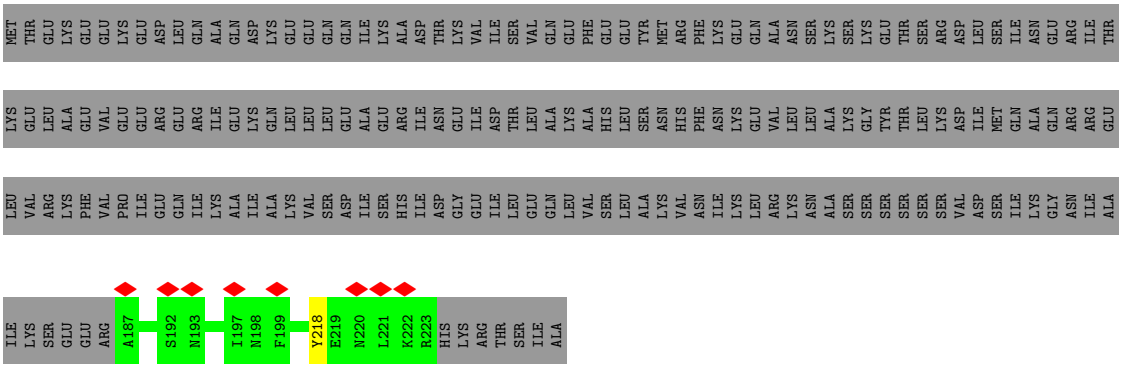




• Molecule 5: Scaffold protein

Chain Wo:

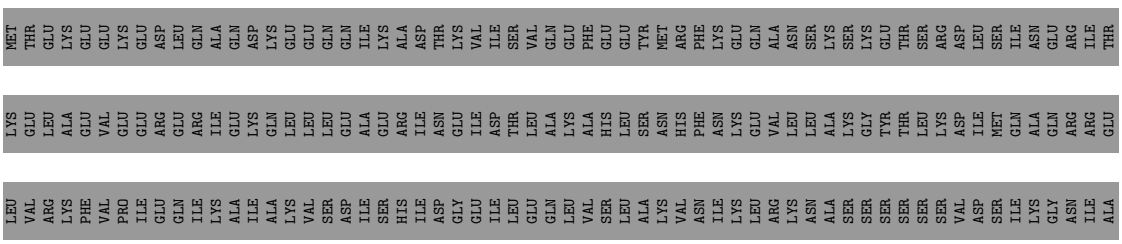


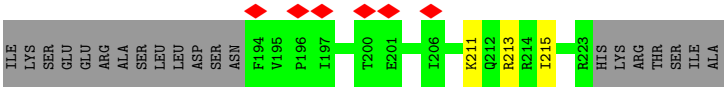


• Molecule 5: Scaffold protein

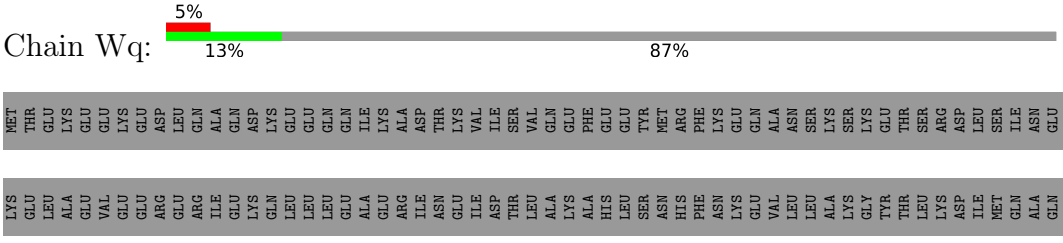
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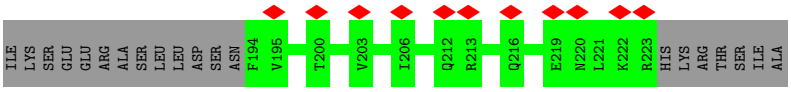




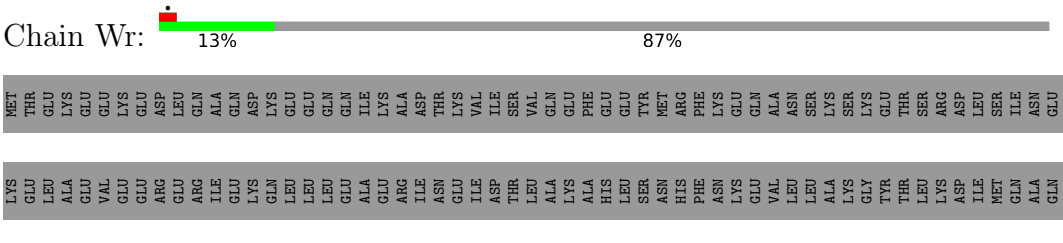


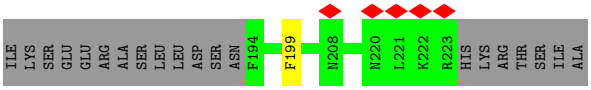
• Molecule 5: Scaffold protein



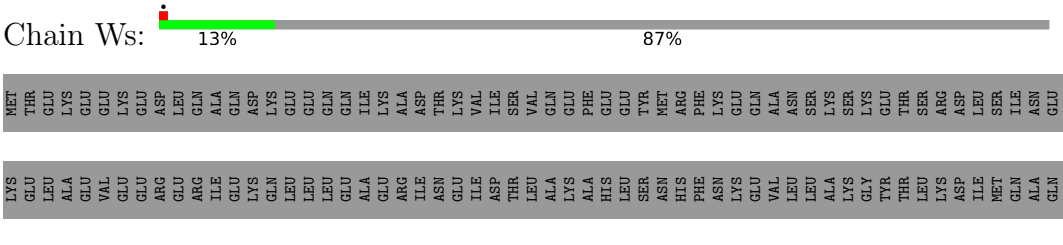


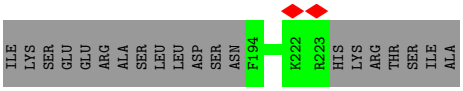
• Molecule 5: Scaffold protein





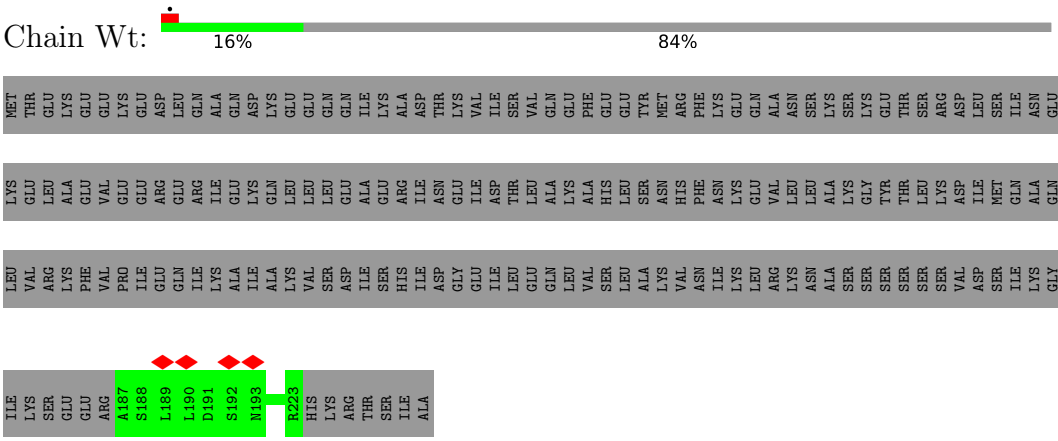
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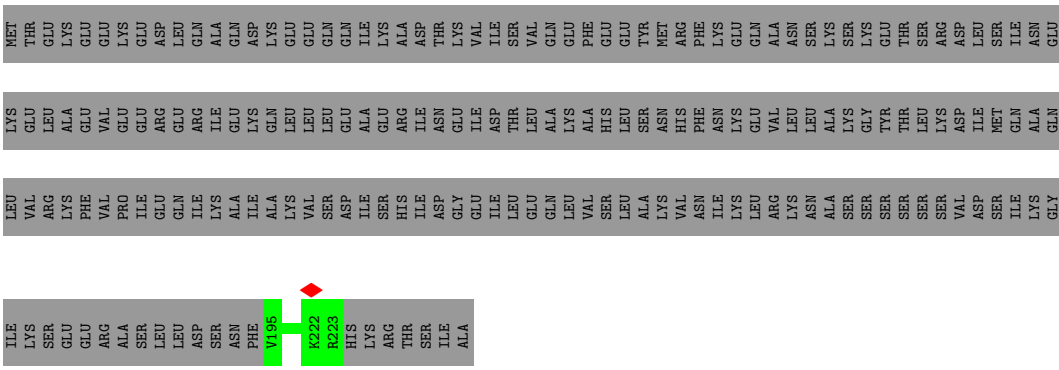
• Molecule 5: Scaffold protein

Chain Wt:



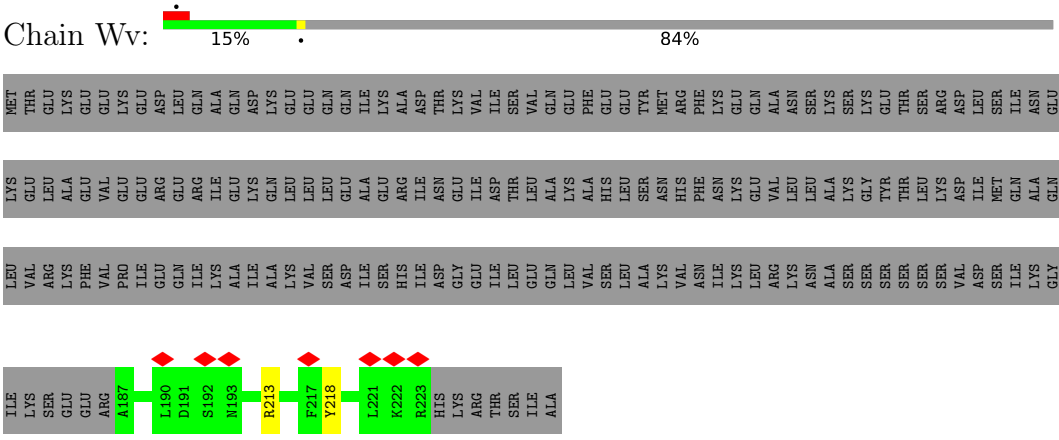
• Molecule 5: Scaffold protein

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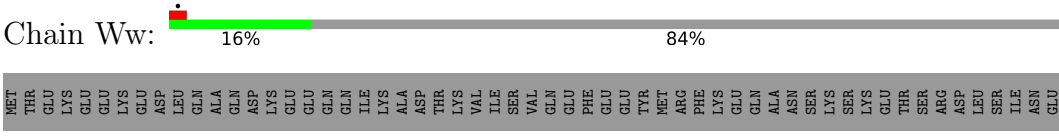
• Molecule 5: Scaffold protein

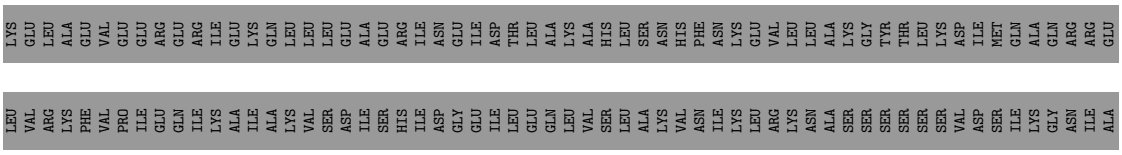
Chain Wv:



• Molecule 5: Scaffold protein

Chain Ww:

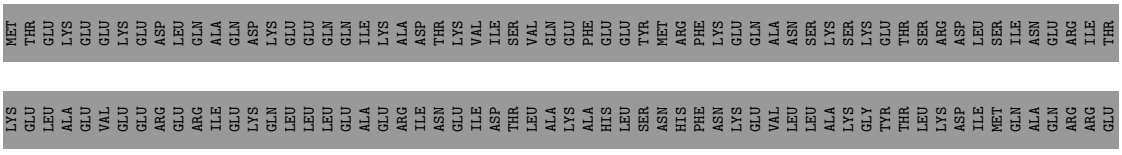


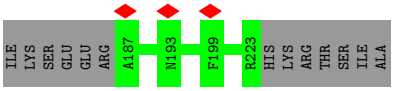


• Molecule 5: Scaffold protein

Chain Wx:



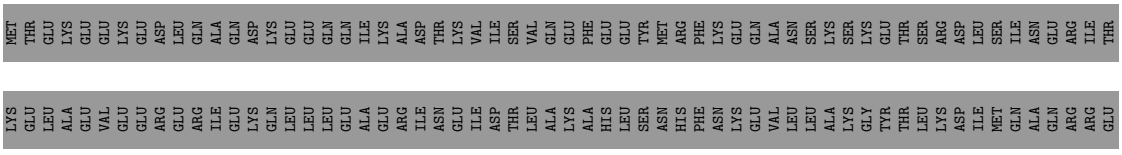


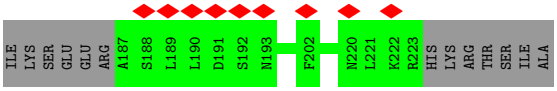


• Molecule 5: Scaffold protein

Chain Wy:



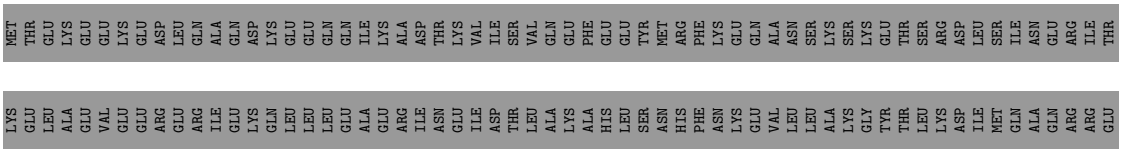


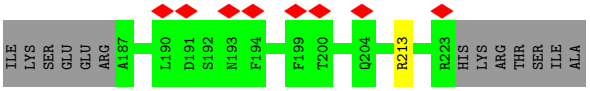


• Molecule 5: Scaffold protein

Chain Wz:



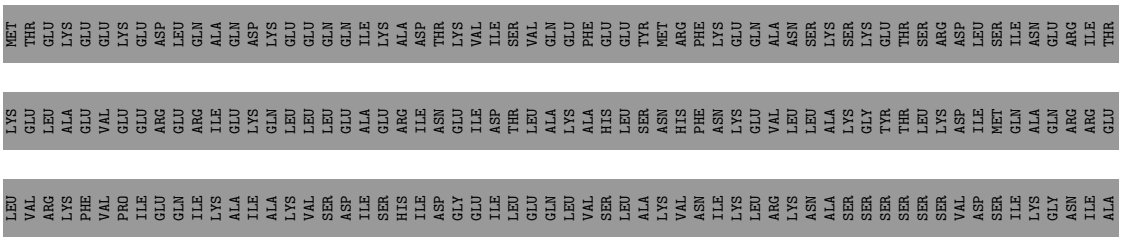


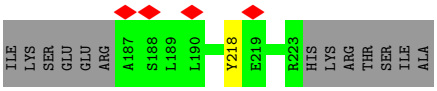


• Molecule 5: Scaffold protein

Chain XA:



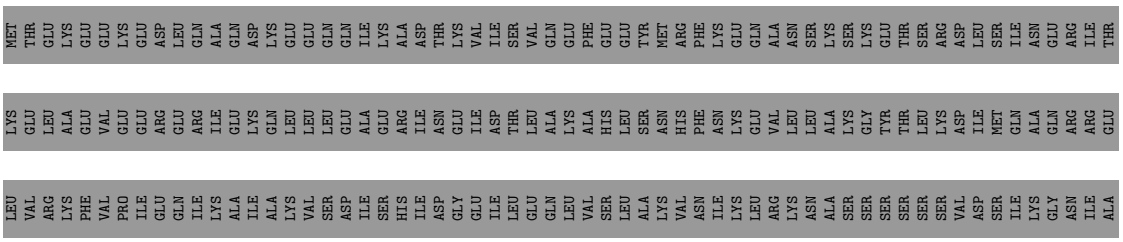


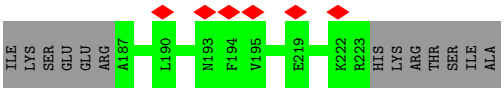


• Molecule 5: Scaffold protein

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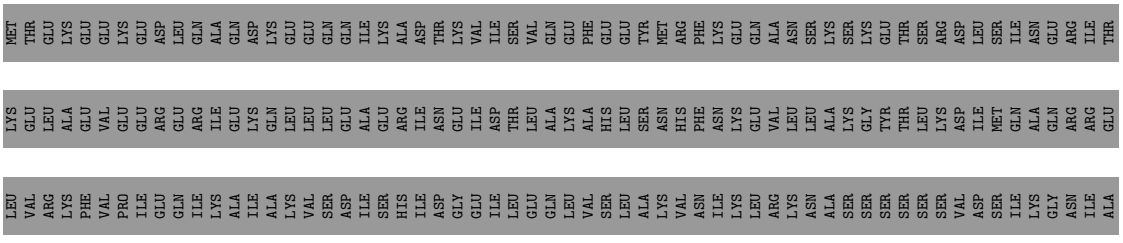


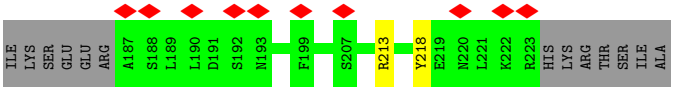


• Molecule 5: Scaffold protein

Chain XC:

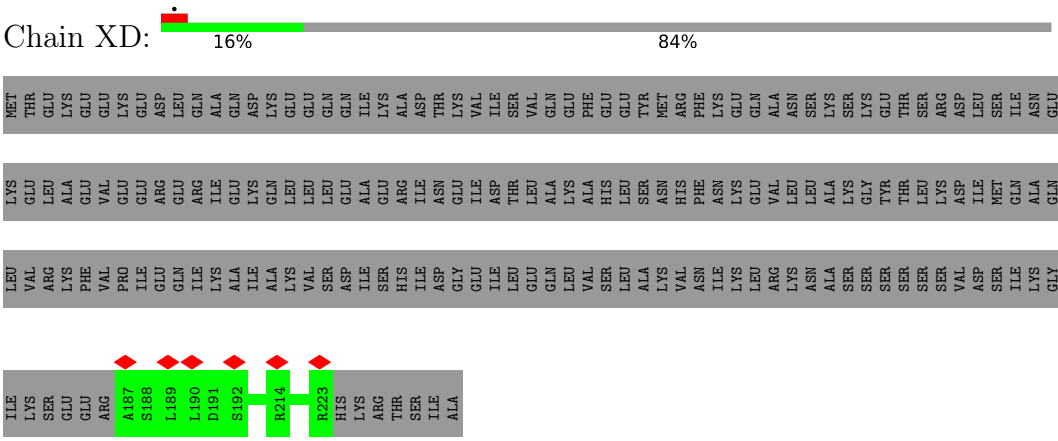






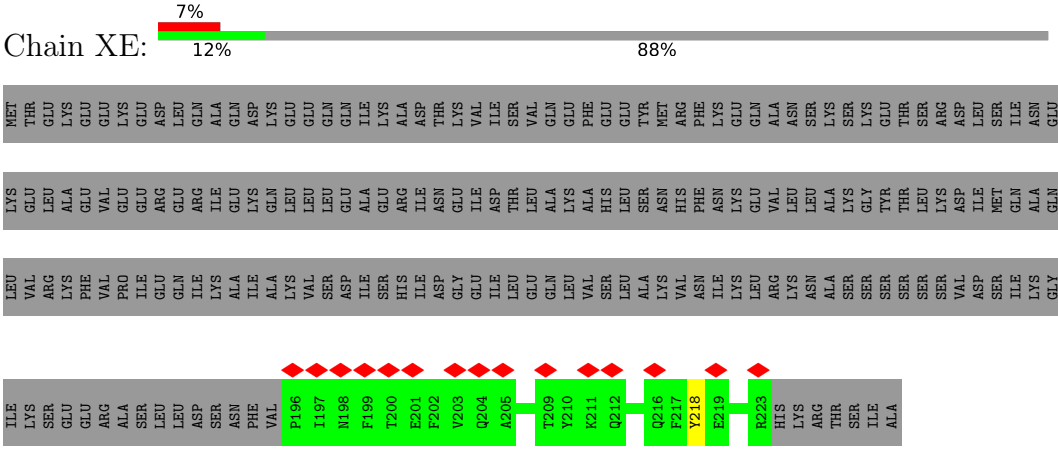
• Molecule 5: Scaffold protein

Chain XD:



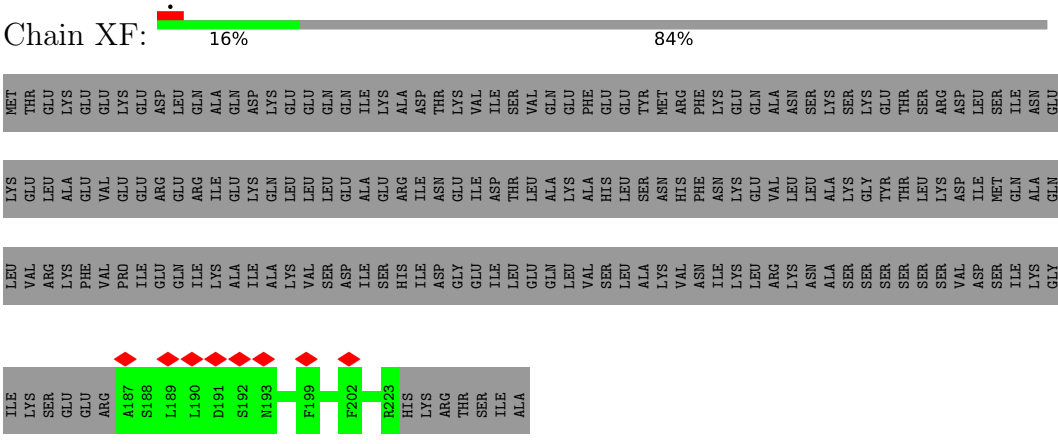
• Molecule 5: Scaffold protein

Chain XE:



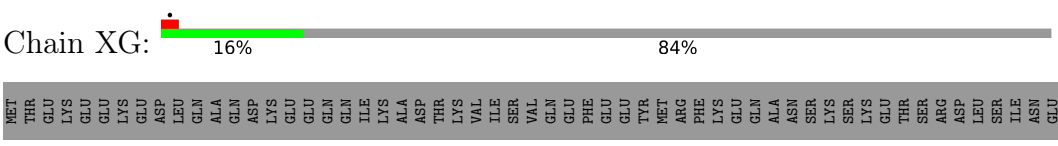
• Molecule 5: Scaffold protein

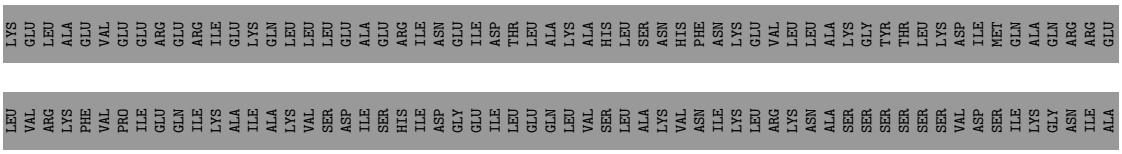
Chain XF:



• Molecule 5: Scaffold protein

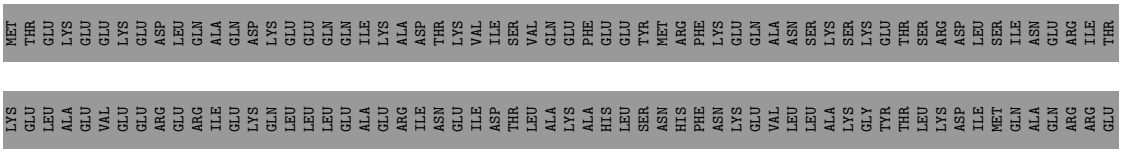
Chain XG:





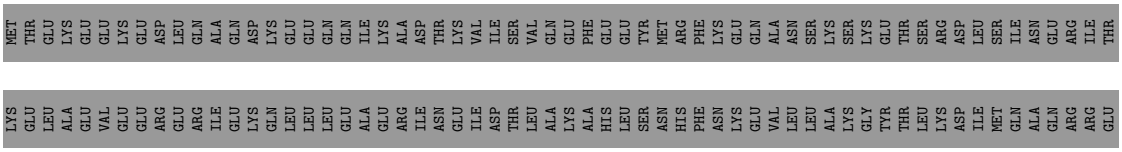
• Molecule 5: Scaffold protein





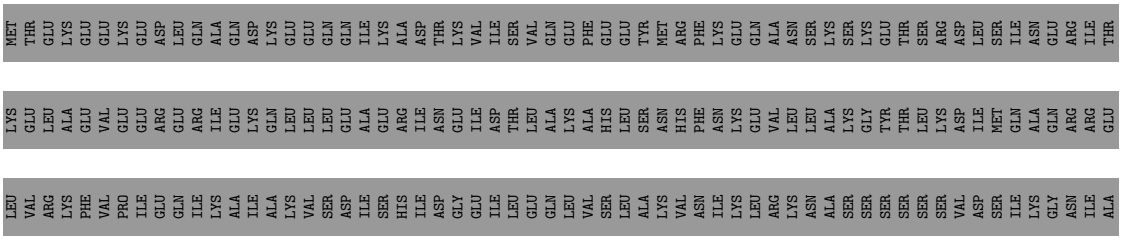
• Molecule 5: Scaffold protein

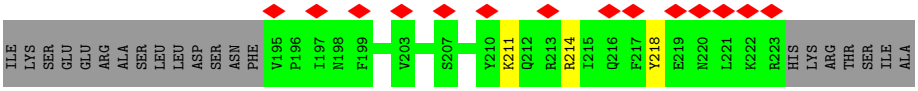




• Molecule 5: Scaffold protein



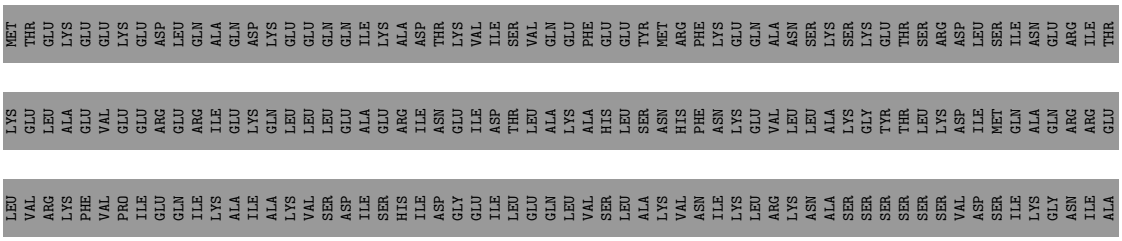


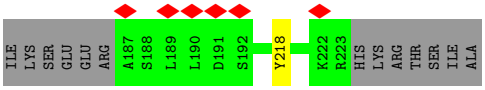


• Molecule 5: Scaffold protein

Chain XK:





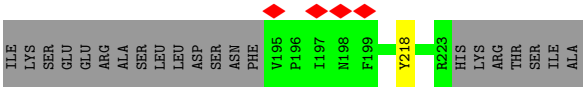


• Molecule 5: Scaffold protein

Chain XL:





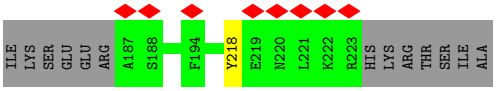


• Molecule 5: Scaffold protein

Chain XM:

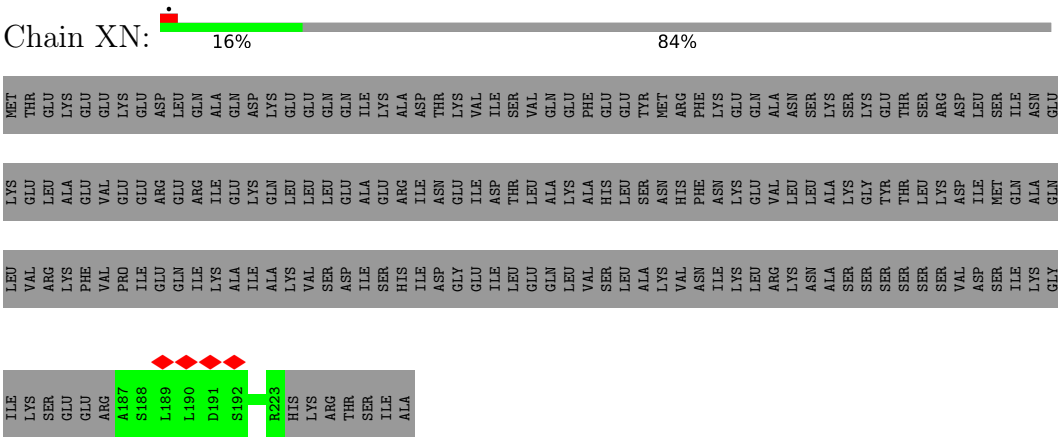






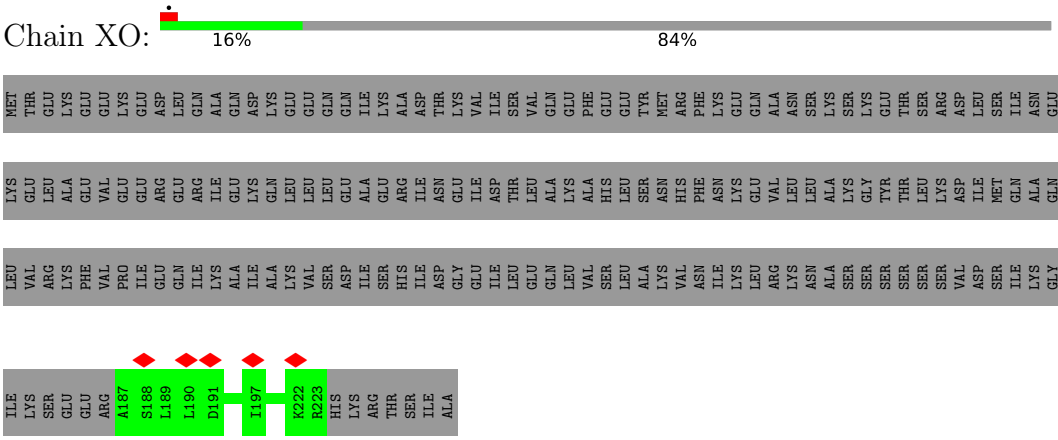
• Molecule 5: Scaffold protein

Chain XN:



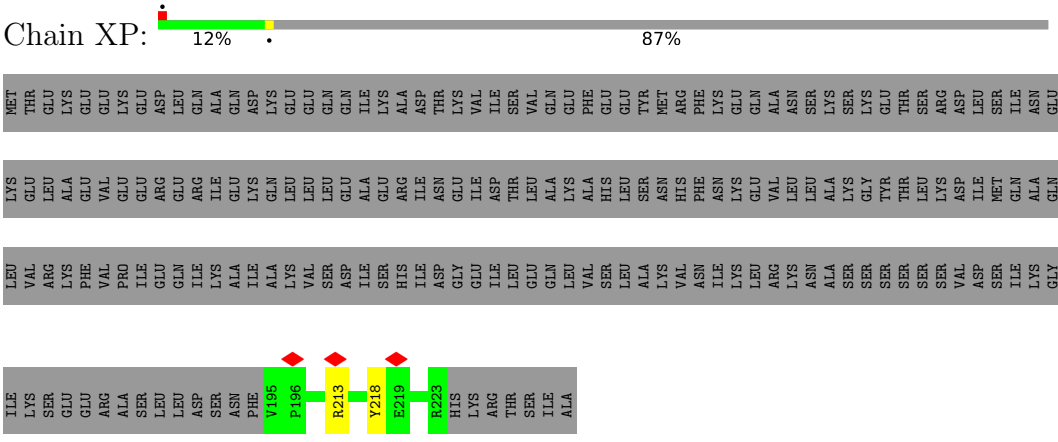
• Molecule 5: Scaffold protein

Chain XO:



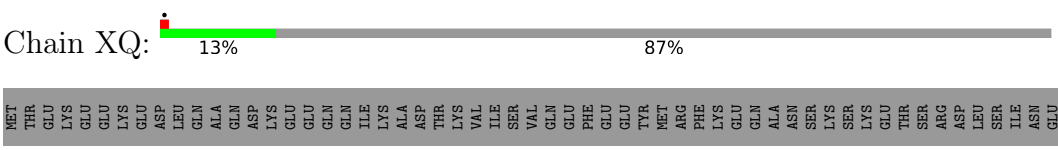
• Molecule 5: Scaffold protein

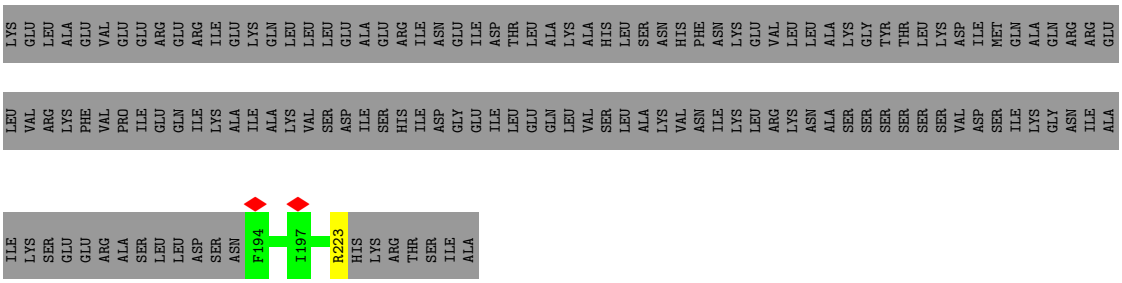
Chain XP:



• Molecule 5: Scaffold protein

Chain XQ:

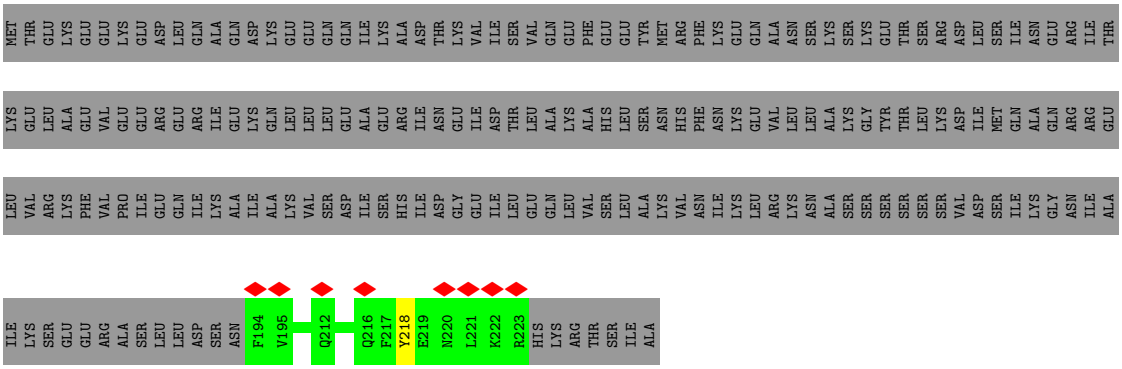




• Molecule 5: Scaffold protein

Chain XR:

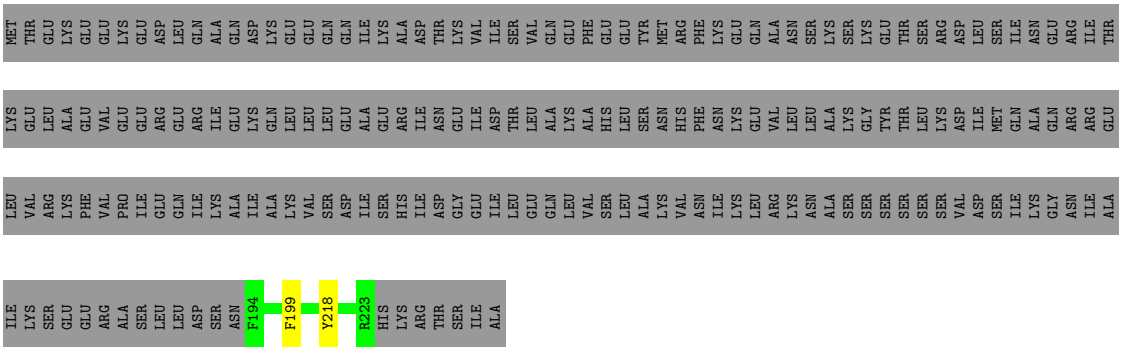




• Molecule 5: Scaffold protein

Chain XS:

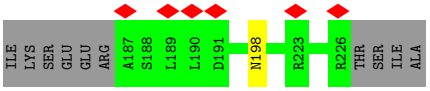




• Molecule 5: Scaffold protein

Chain XT:

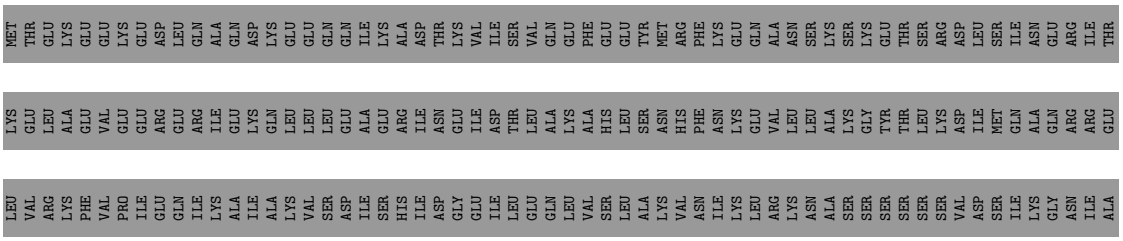


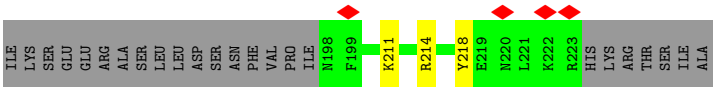


• Molecule 5: Scaffold protein

Chain XU:



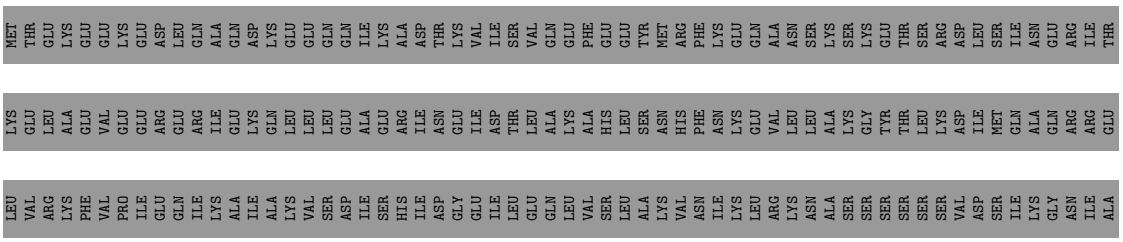


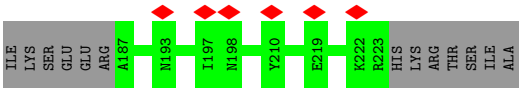


• Molecule 5: Scaffold protein

Chain XV:





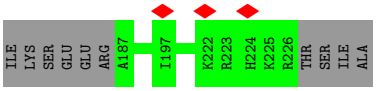


• Molecule 5: Scaffold protein

Chain XW:

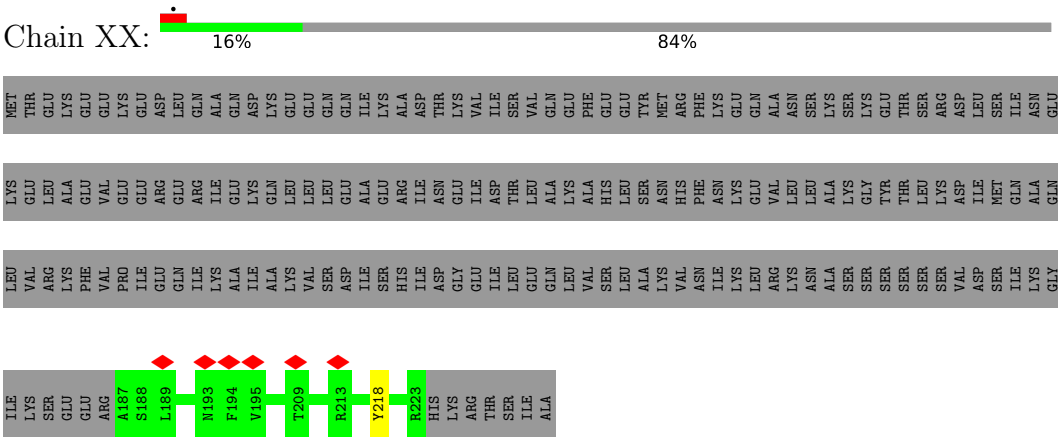






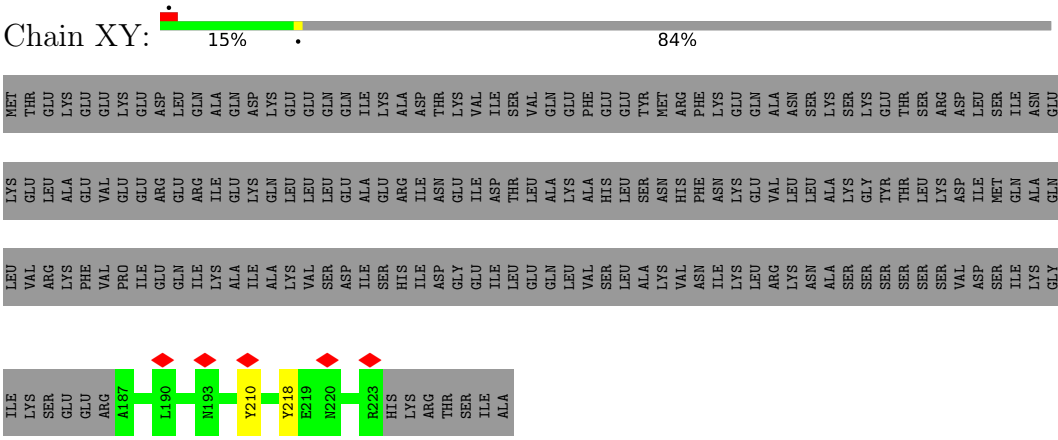
• Molecule 5: Scaffold protein

Chain XX:



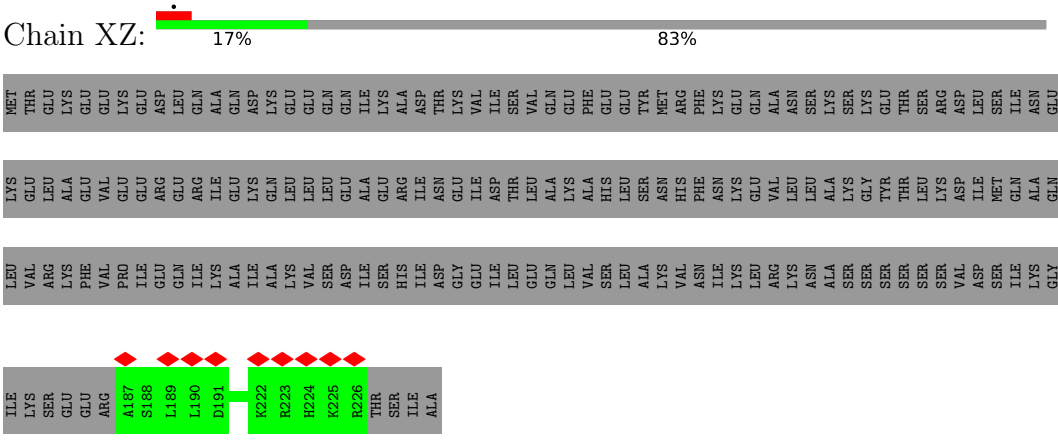
• Molecule 5: Scaffold protein

Chain XY:



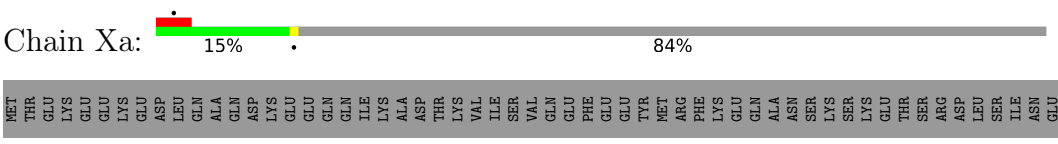
• Molecule 5: Scaffold protein

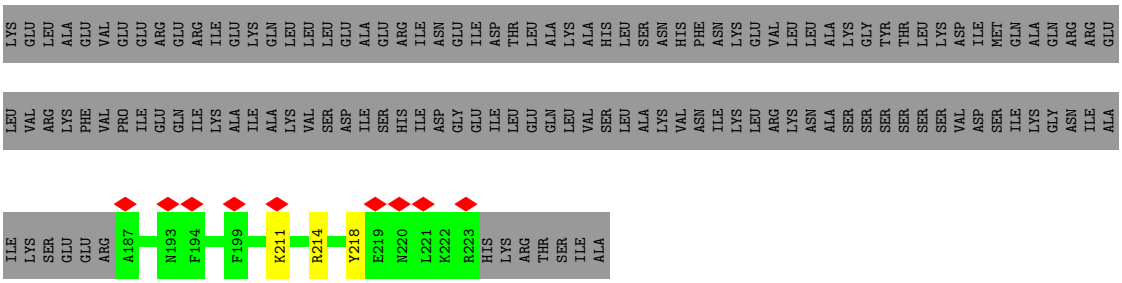
Chain XZ:



• Molecule 5: Scaffold protein

Chain Xa:



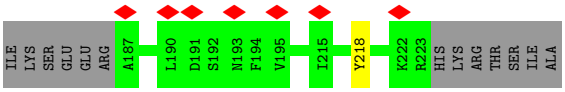


• Molecule 5: Scaffold protein

Chain Xb:





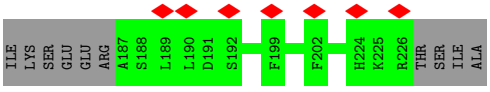


• Molecule 5: Scaffold protein

Chain Xc:



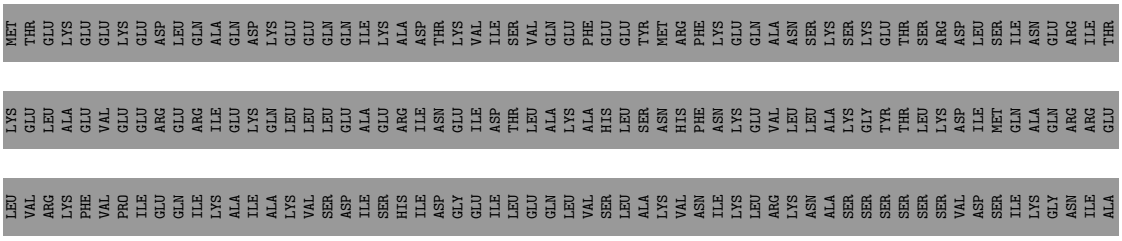


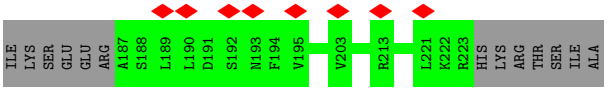


• Molecule 5: Scaffold protein

Chain Xd:



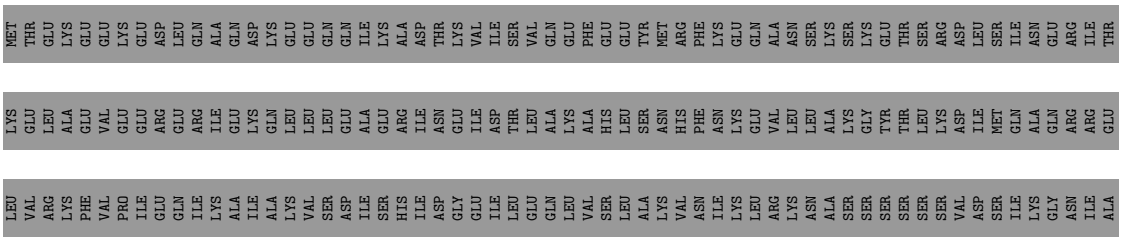


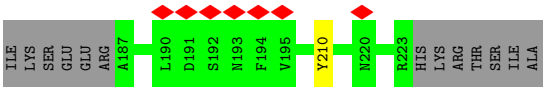


• Molecule 5: Scaffold protein

Chain Xe:





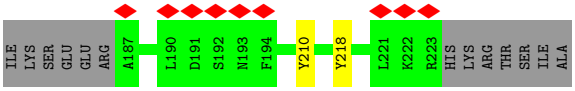


• Molecule 5: Scaffold protein

Chain Xf:





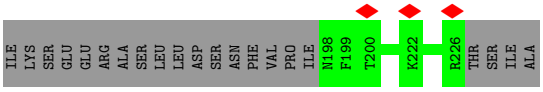


• Molecule 5: Scaffold protein

Chain Xg:

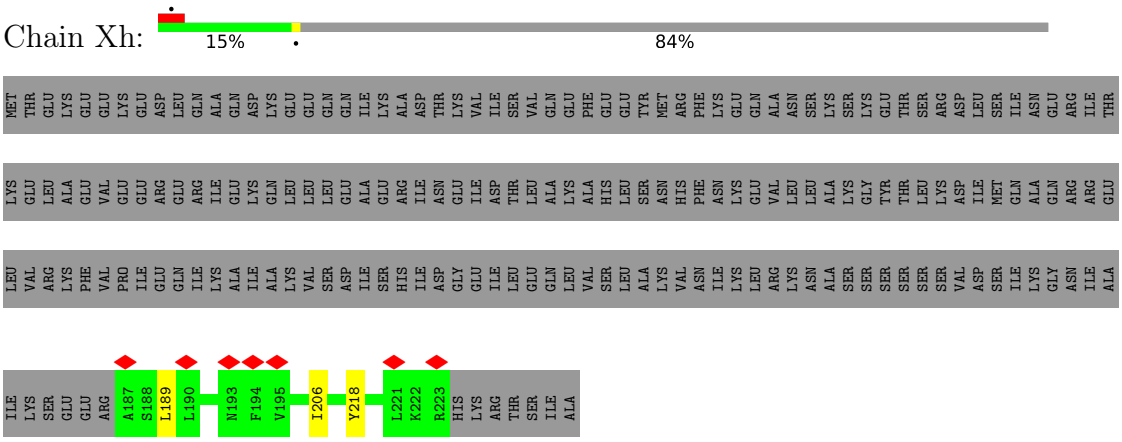






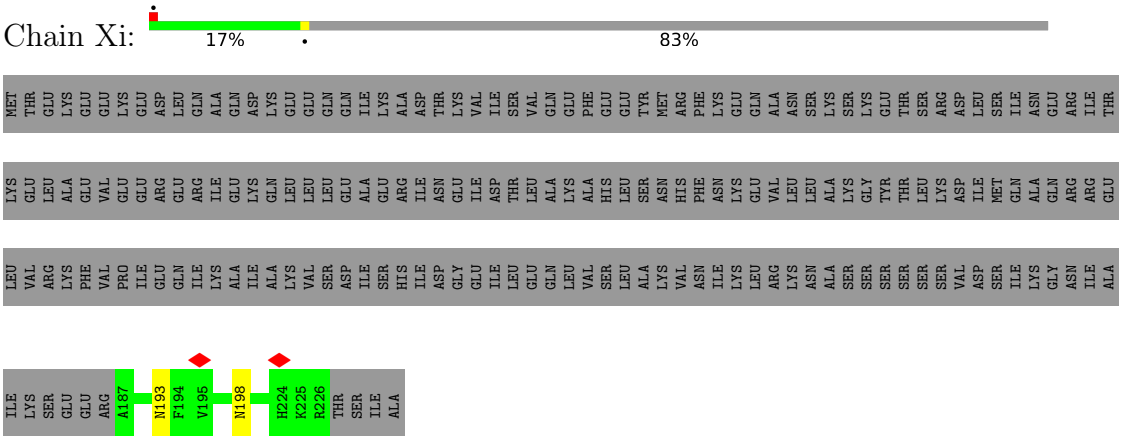
• Molecule 5: Scaffold protein

Chain Xh:



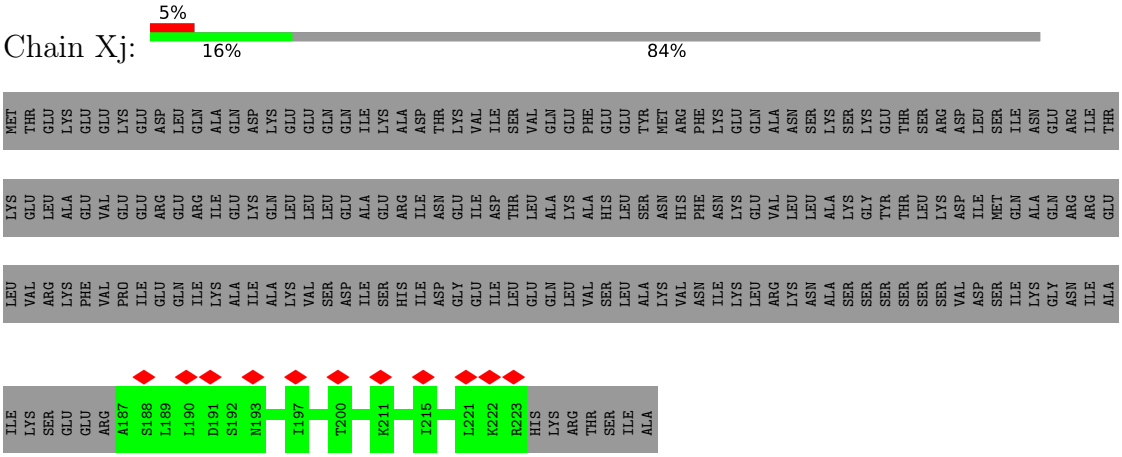
• Molecule 5: Scaffold protein

Chain Xi:



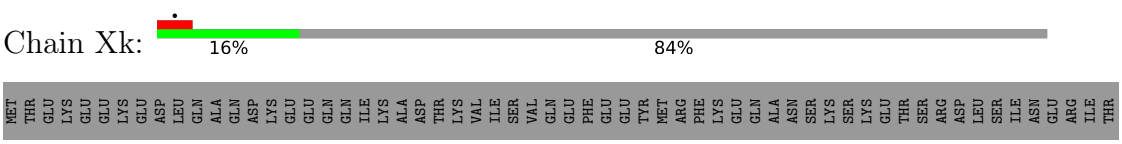
• Molecule 5: Scaffold protein

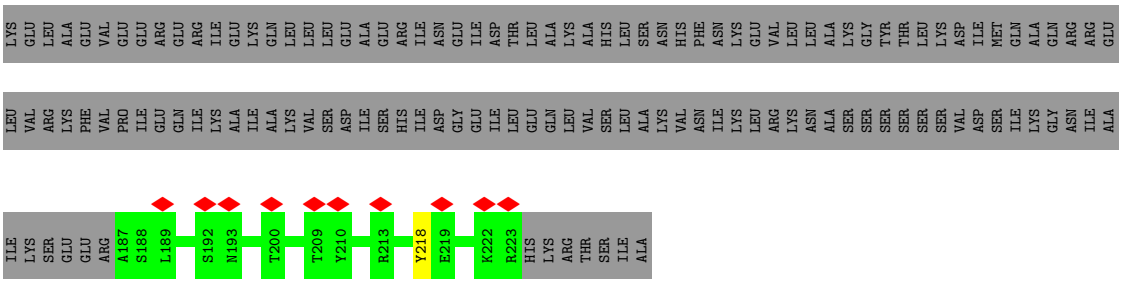
Chain Xj:



• Molecule 5: Scaffold protein

Chain Xk:

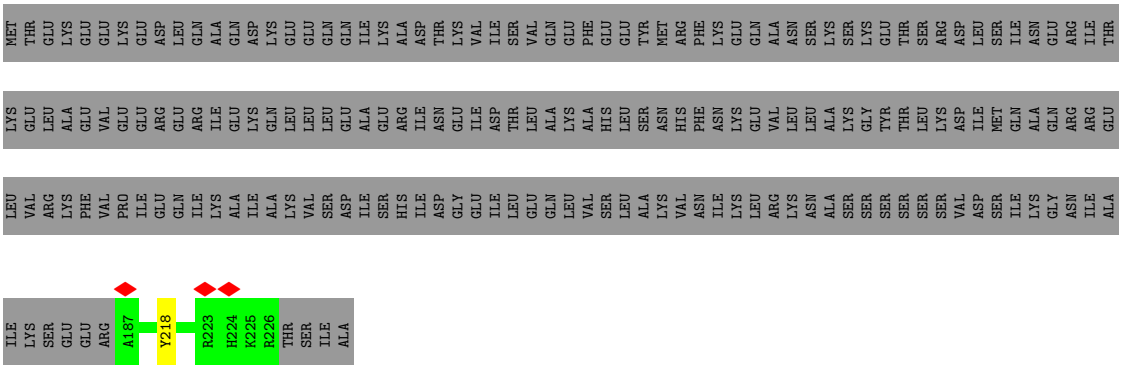




• Molecule 5: Scaffold protein

Chain Xl:

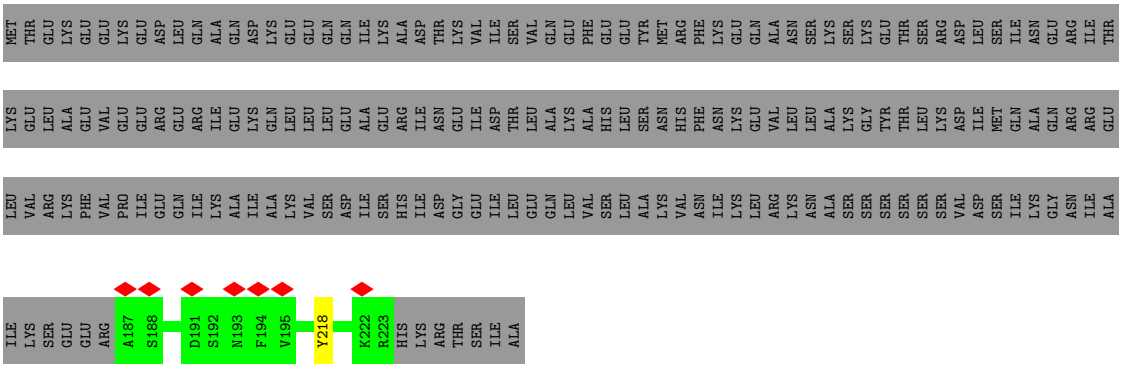




• Molecule 5: Scaffold protein

Chain Xm:



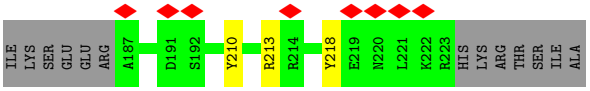


• Molecule 5: Scaffold protein

Chain Xn:



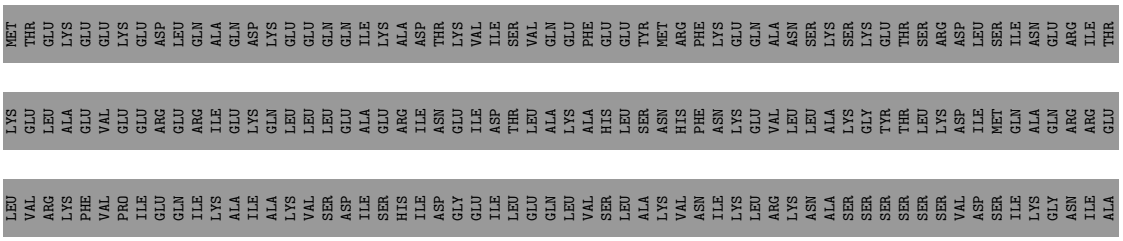


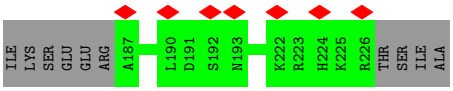


• Molecule 5: Scaffold protein

Chain Xo:



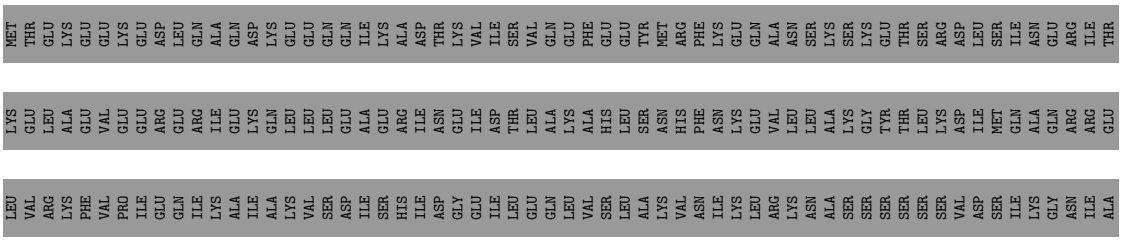


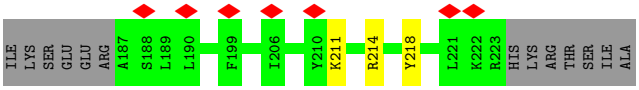


• Molecule 5: Scaffold protein

Chain Xp:



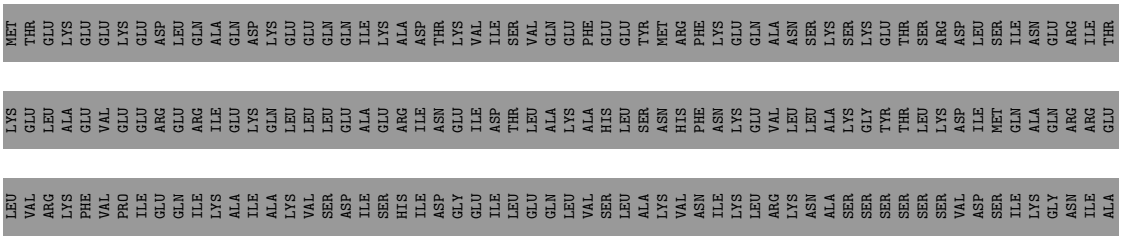


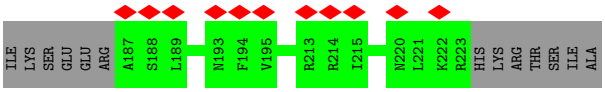


• Molecule 5: Scaffold protein

Chain Xq:

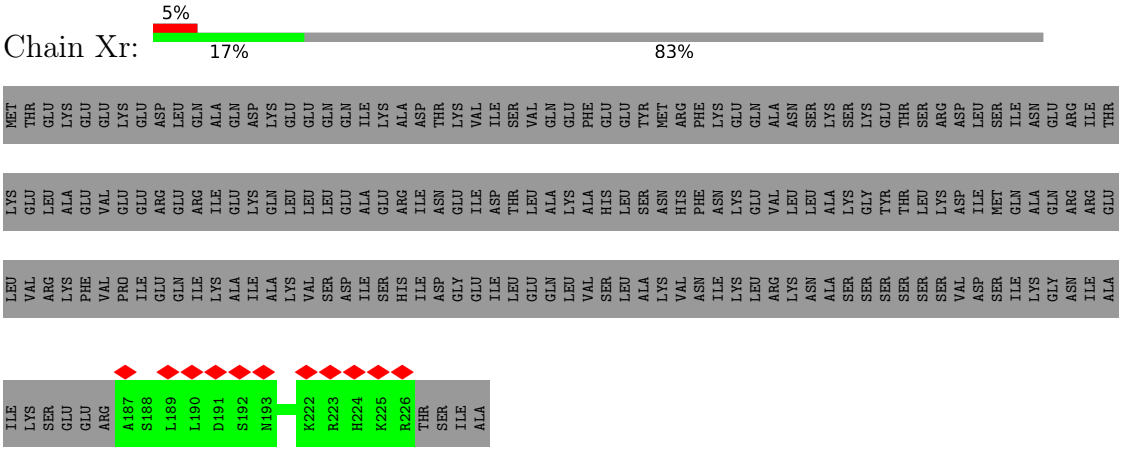






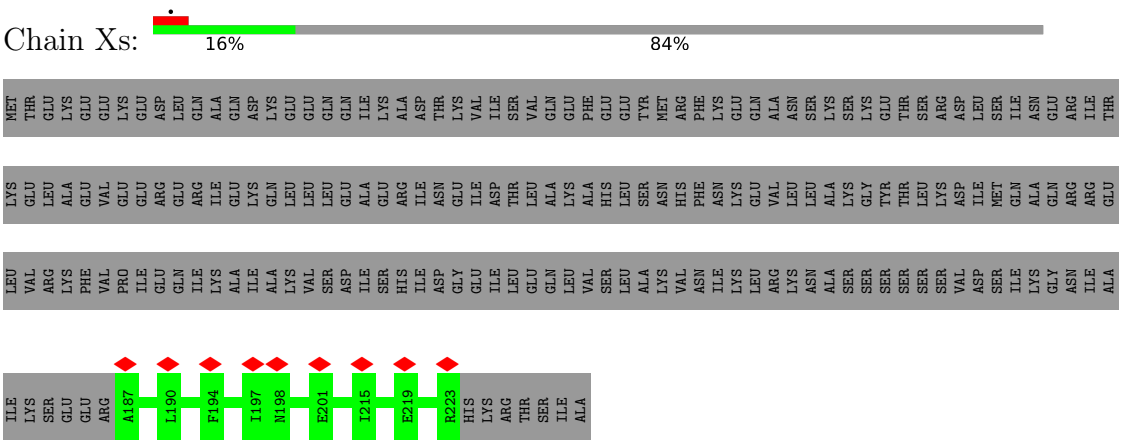
• Molecule 5: Scaffold protein

Chain Xr:



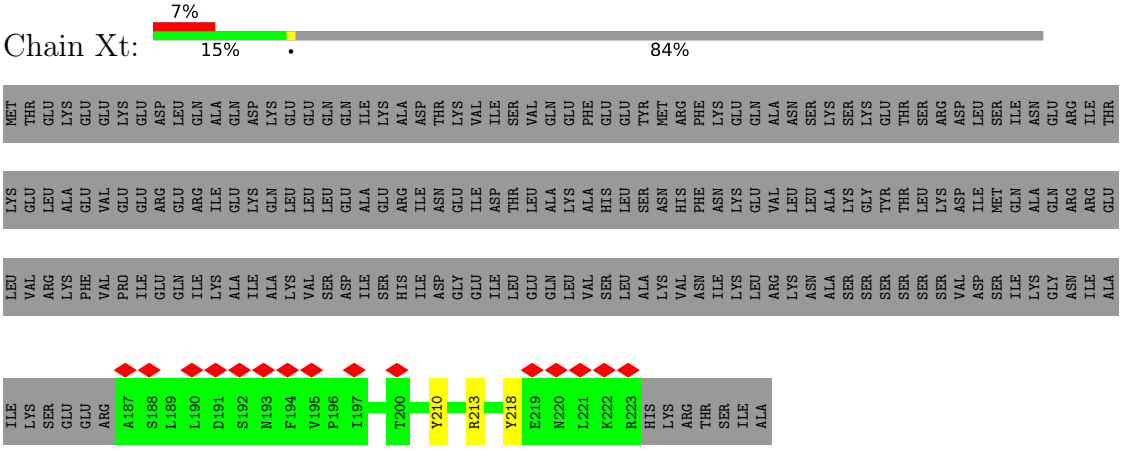
• Molecule 5: Scaffold protein

Chain Xs:



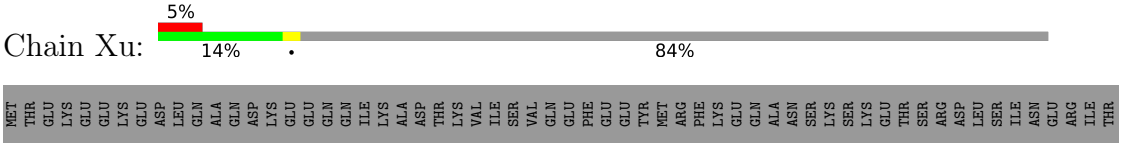
• Molecule 5: Scaffold protein

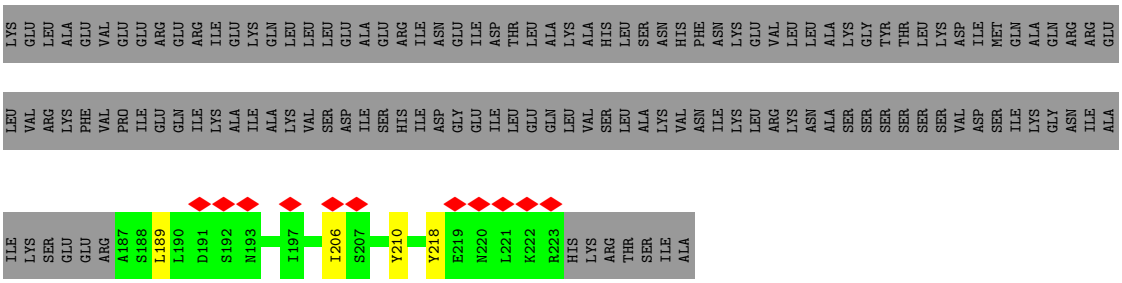
Chain Xt:



• Molecule 5: Scaffold protein

Chain Xu:

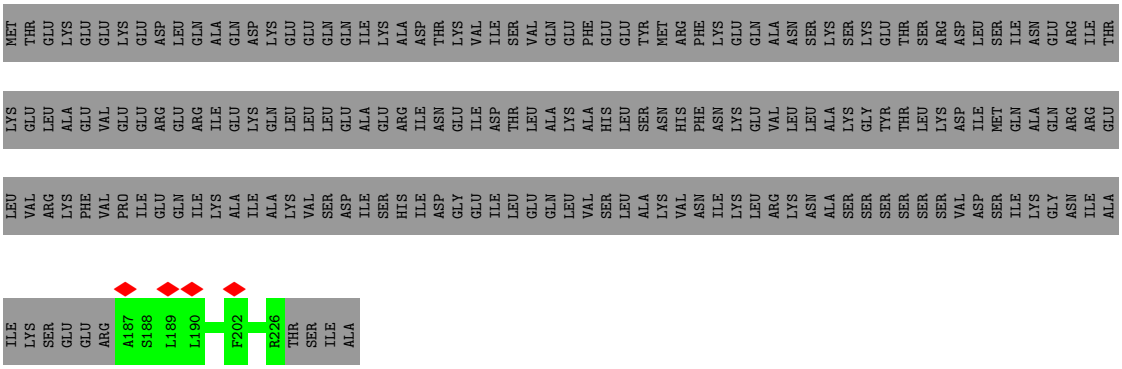




• Molecule 5: Scaffold protein

Chain Xv:

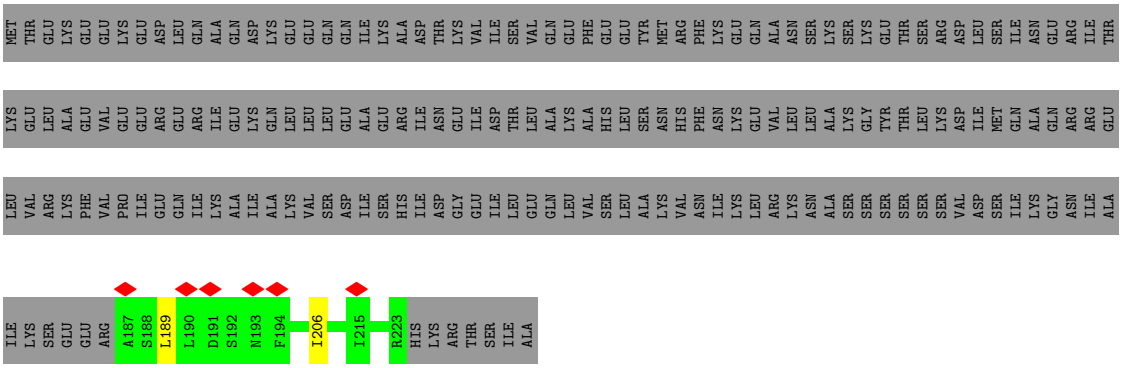




• Molecule 5: Scaffold protein

Chain Xw:

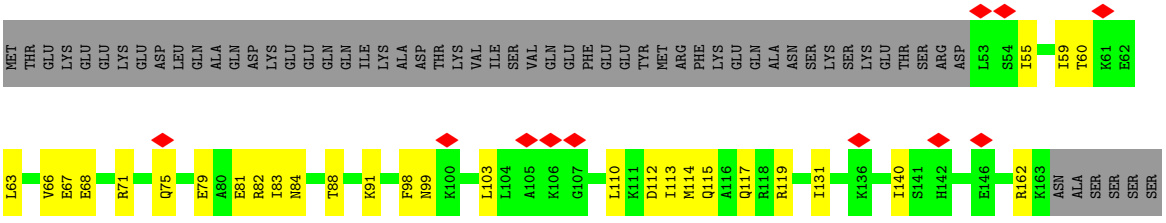


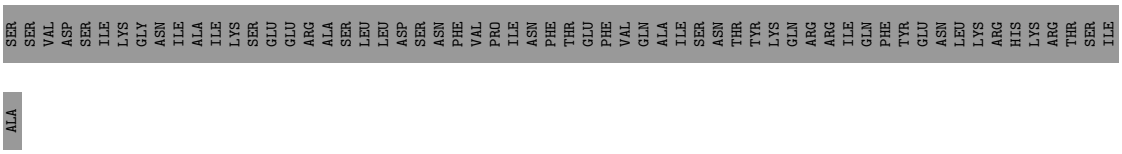


• Molecule 5: Scaffold protein

Chain YJ:



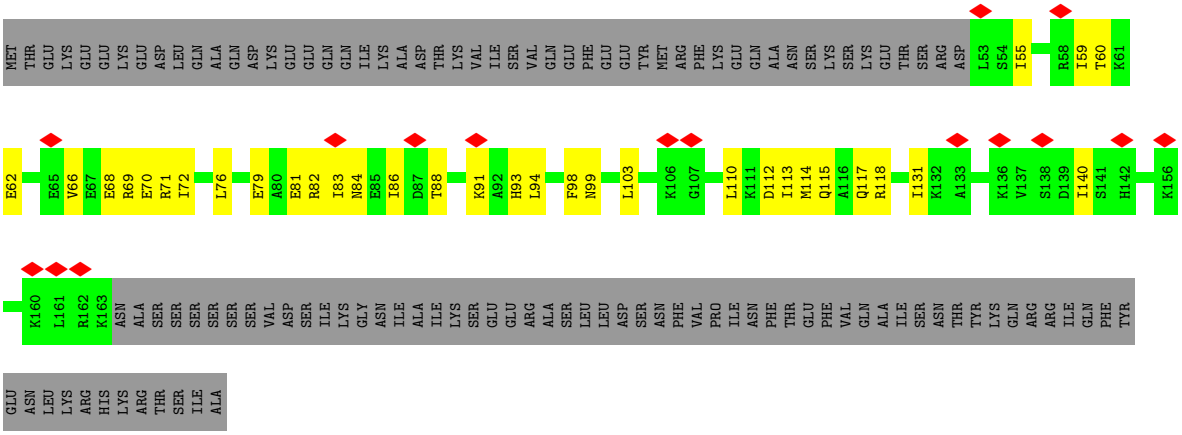




• Molecule 5: Scaffold protein

Chain YK:

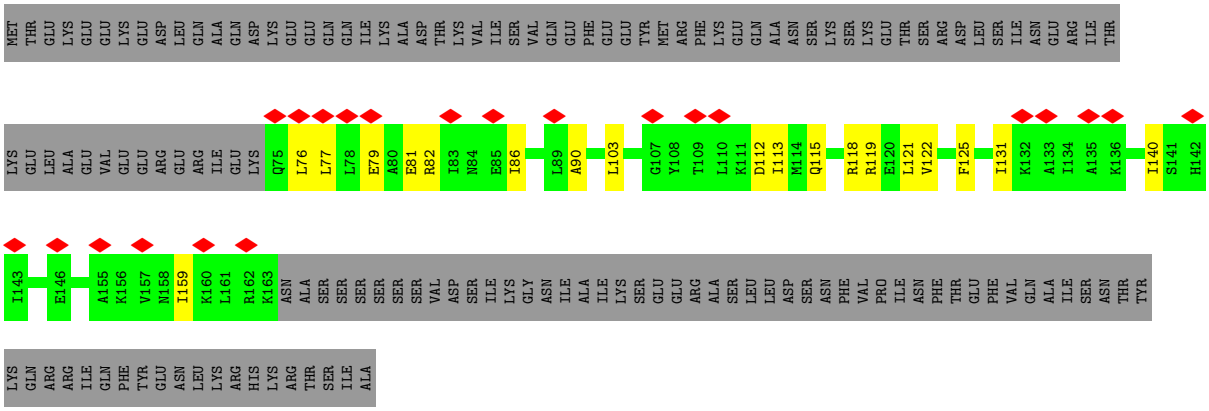




• Molecule 5: Scaffold protein

Chain YL:

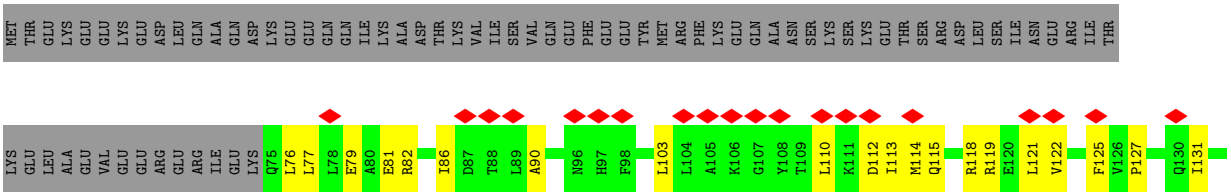


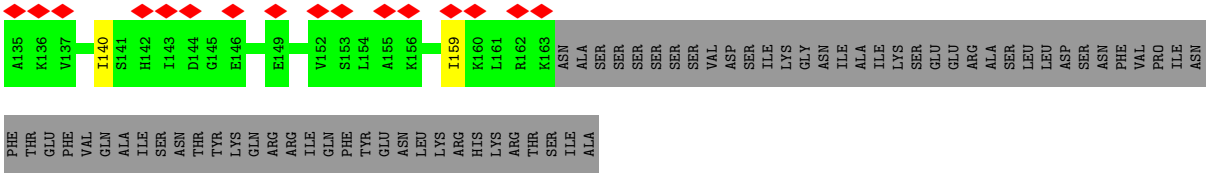


• Molecule 5: Scaffold protein

Chain YM:



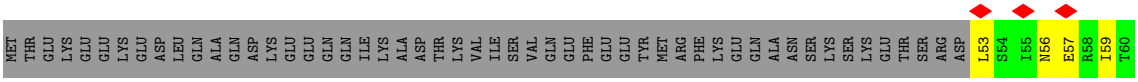


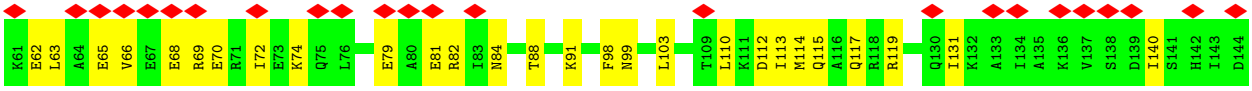


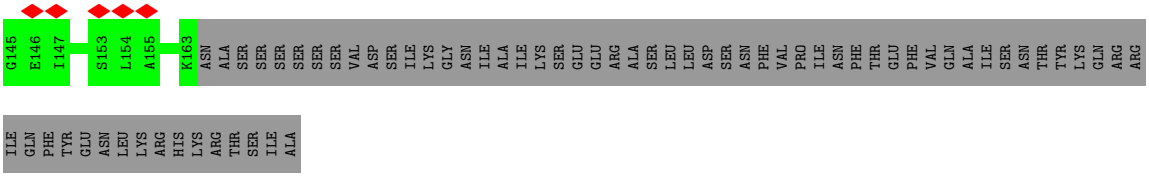
• Molecule 5: Scaffold protein

Chain YN:







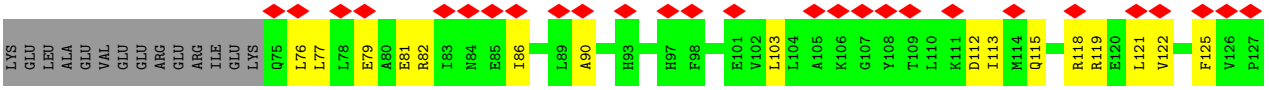


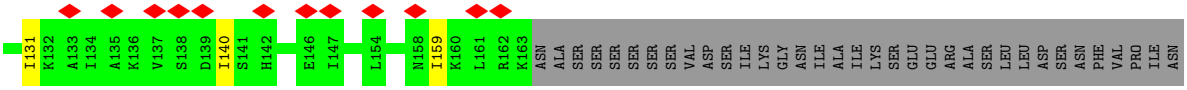
• Molecule 5: Scaffold protein

Chain YO:





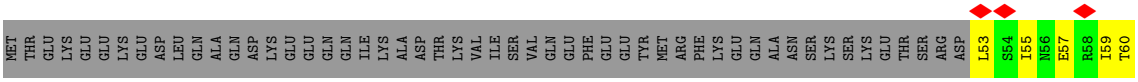




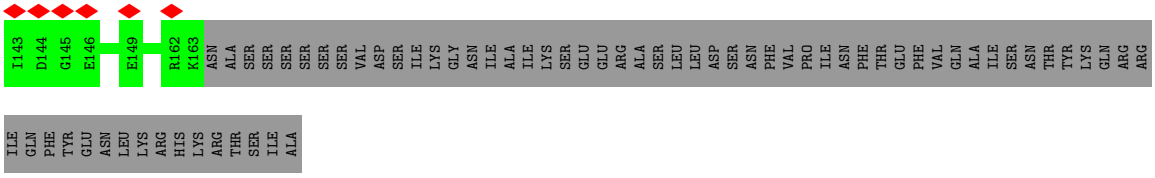
• Molecule 5: Scaffold protein

Chain YP:



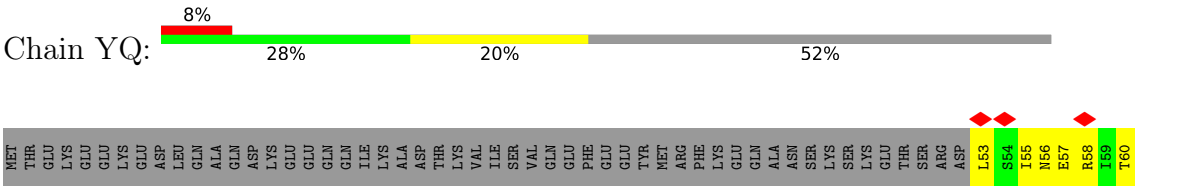






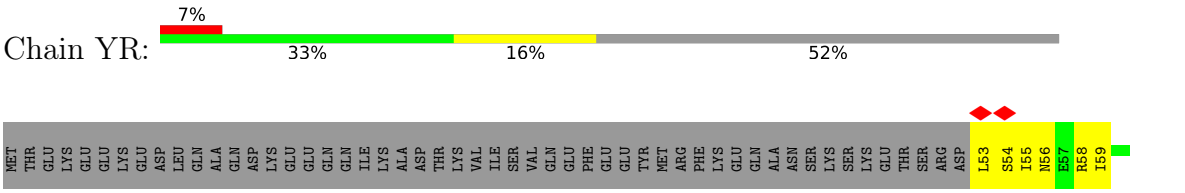
• Molecule 5: Scaffold protein

Chain YQ:



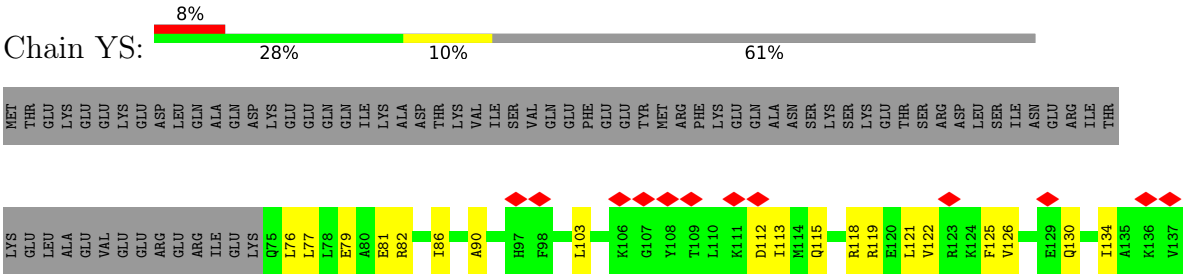
• Molecule 5: Scaffold protein

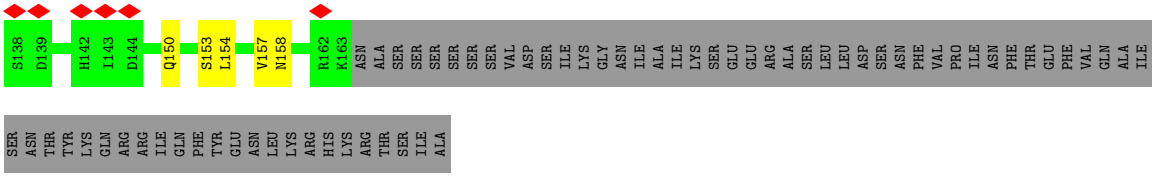
Chain YR:



• Molecule 5: Scaffold protein

Chain YS:

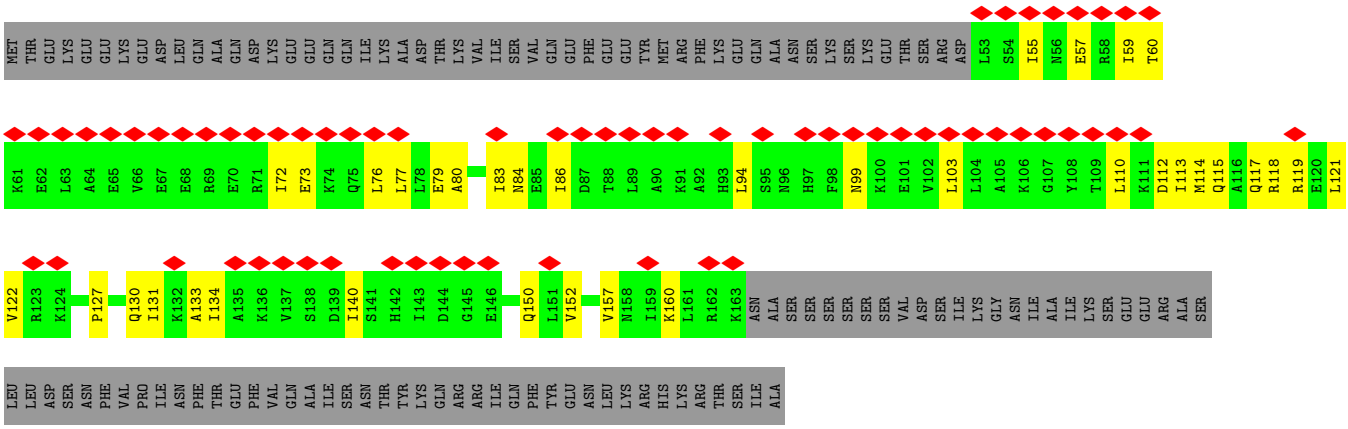




• Molecule 5: Scaffold protein

Chain YT:

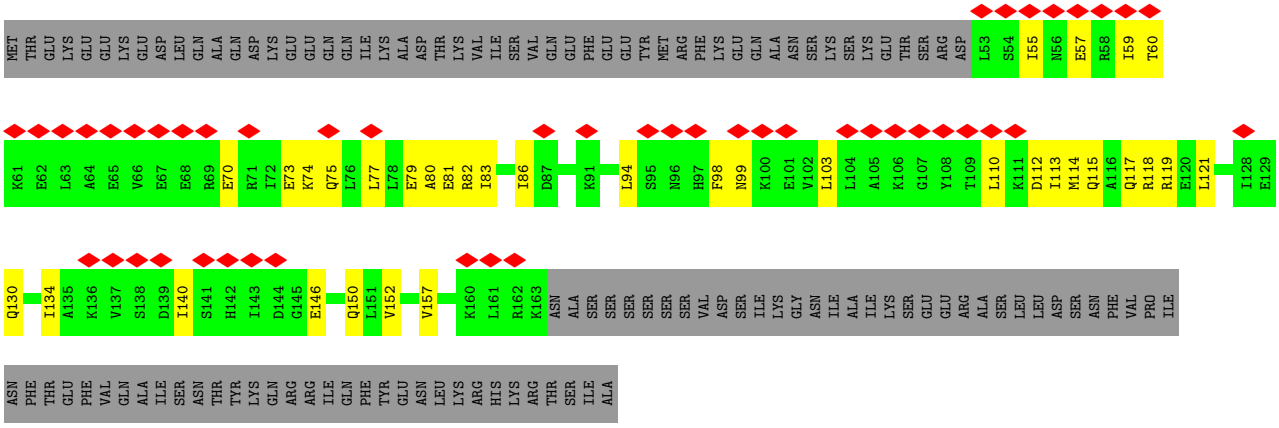




• Molecule 5: Scaffold protein

Chain YU:

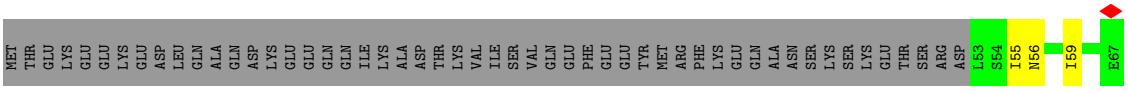


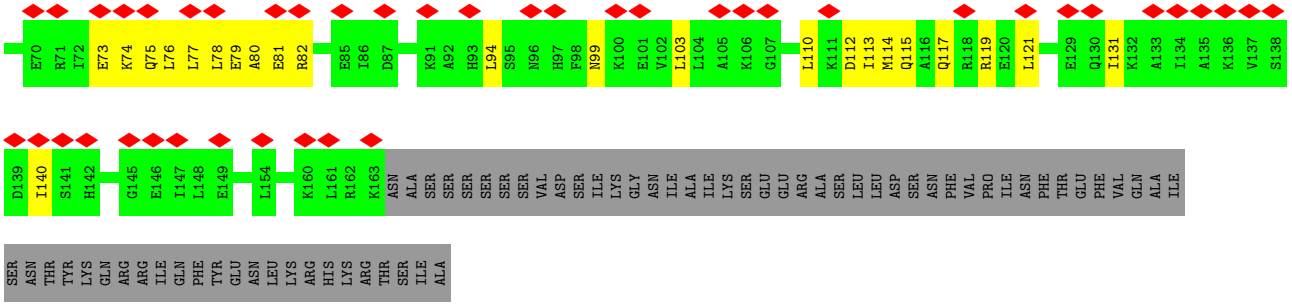


• Molecule 5: Scaffold protein

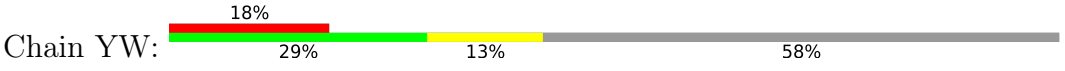
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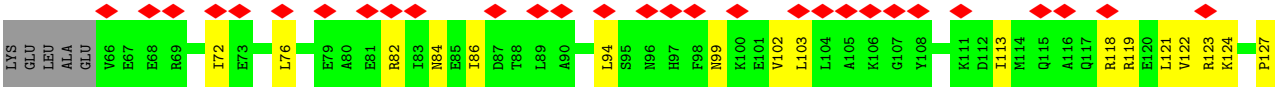


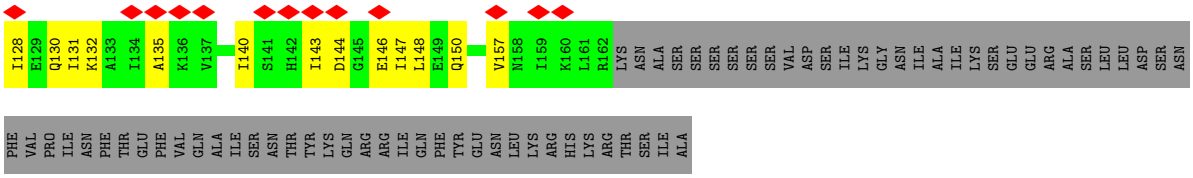


• Molecule 5: Scaffold protein

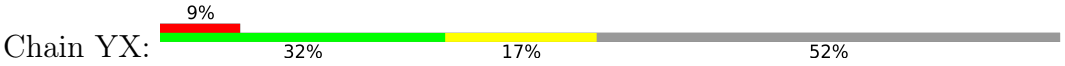


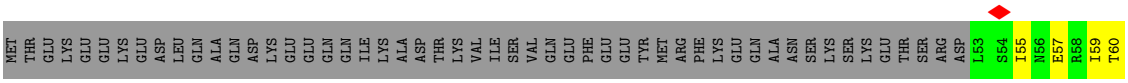


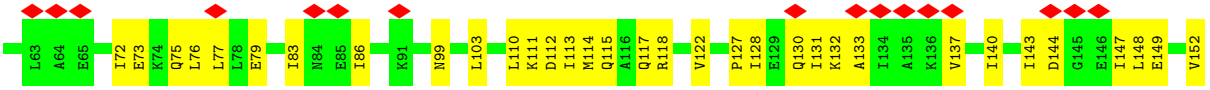


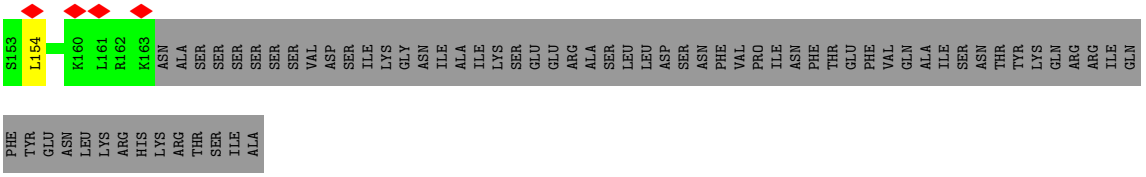


• Molecule 5: Scaffold protein



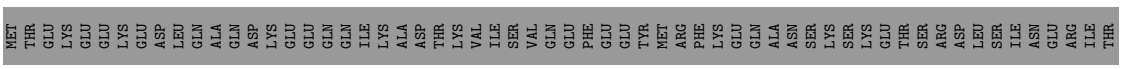


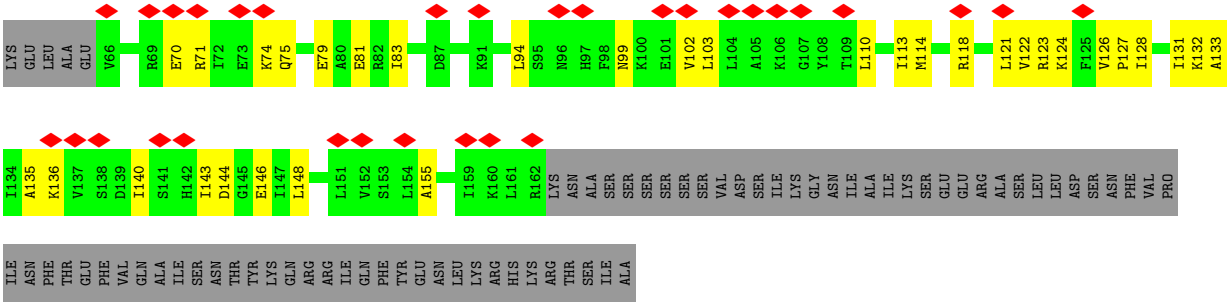




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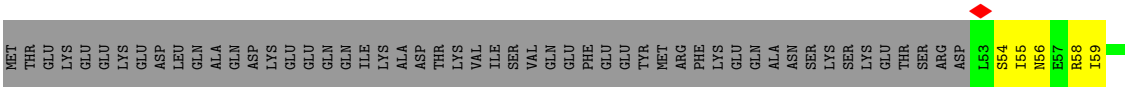


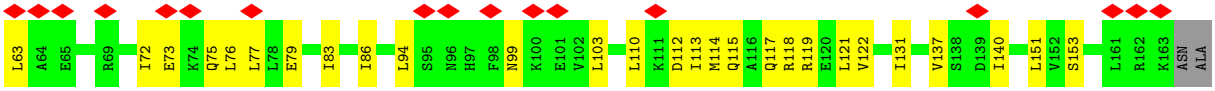


• Molecule 5: Scaffold protein

Chain YZ:







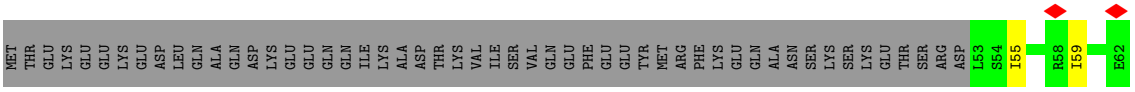


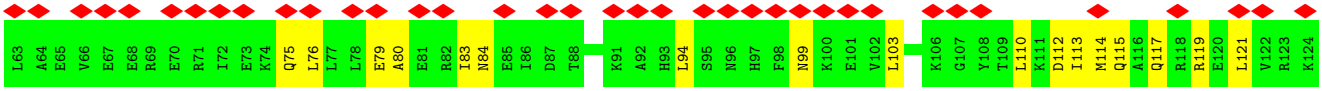


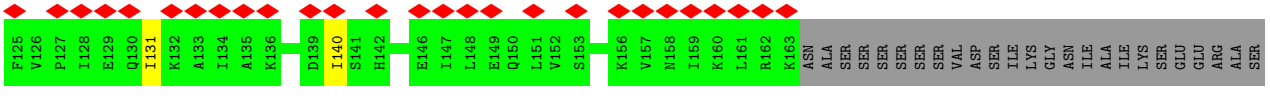
• Molecule 5: Scaffold protein

Chain Ya:







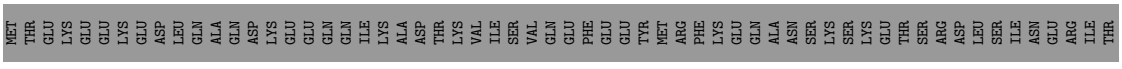


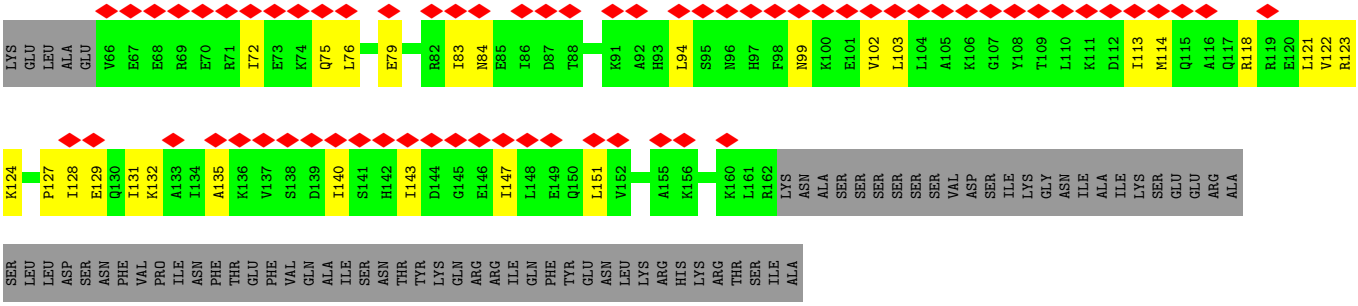


• Molecule 5: Scaffold protein

Chain Yb:



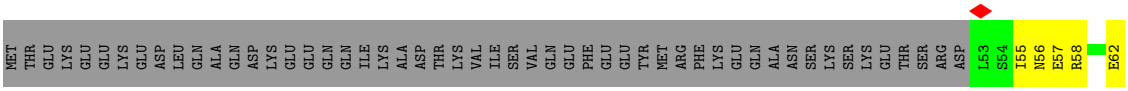


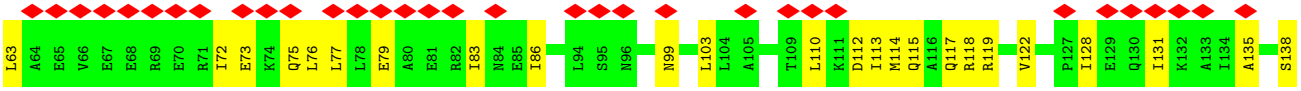


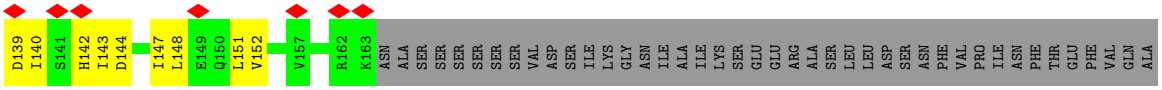
• Molecule 5: Scaffold protein

Chain Yc:









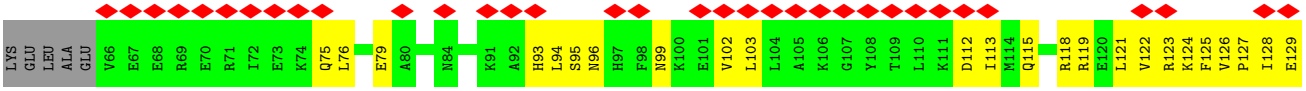


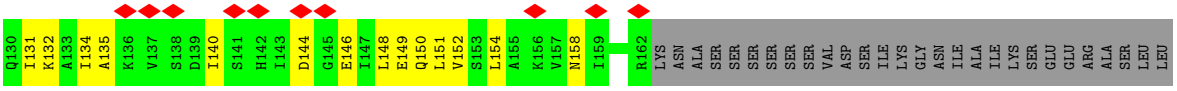
• Molecule 5: Scaffold protein

Chain Yd:







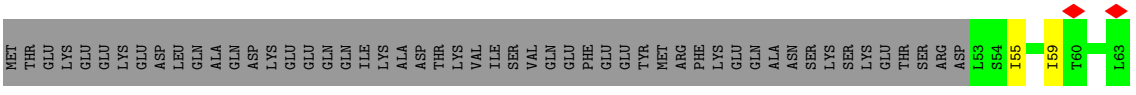


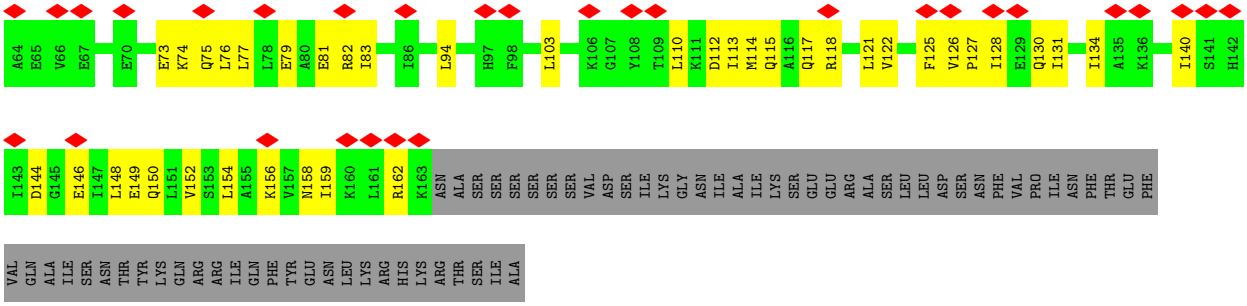


• Molecule 5: Scaffold protein

Chain Ye:





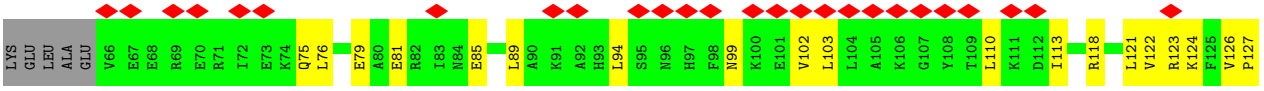


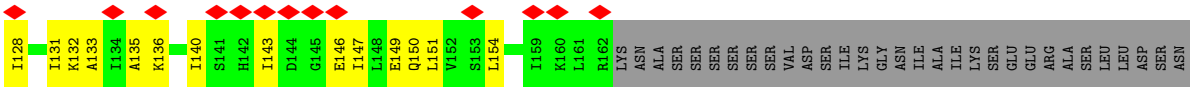
• Molecule 5: Scaffold protein

Chain Yf:







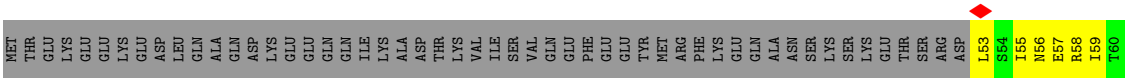




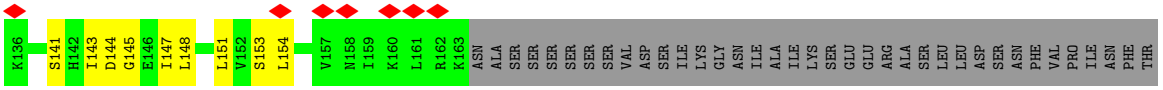
• Molecule 5: Scaffold protein

Chain Yg:







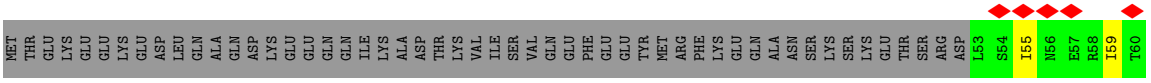


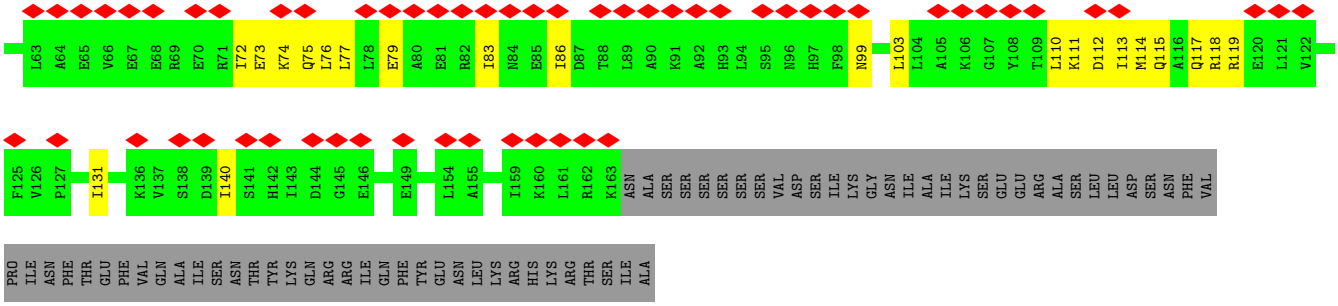


• Molecule 5: Scaffold protein

Chain Yh:



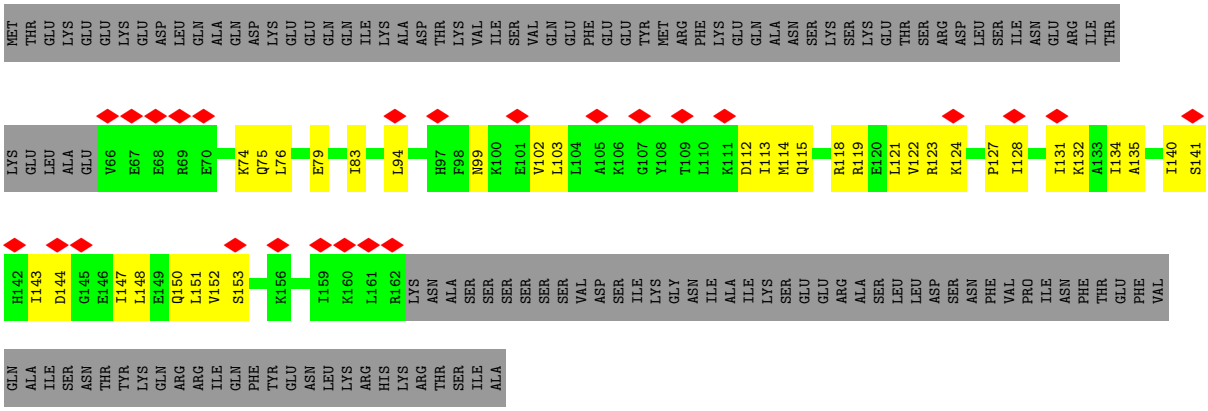




• Molecule 5: Scaffold protein

Chain Yi:

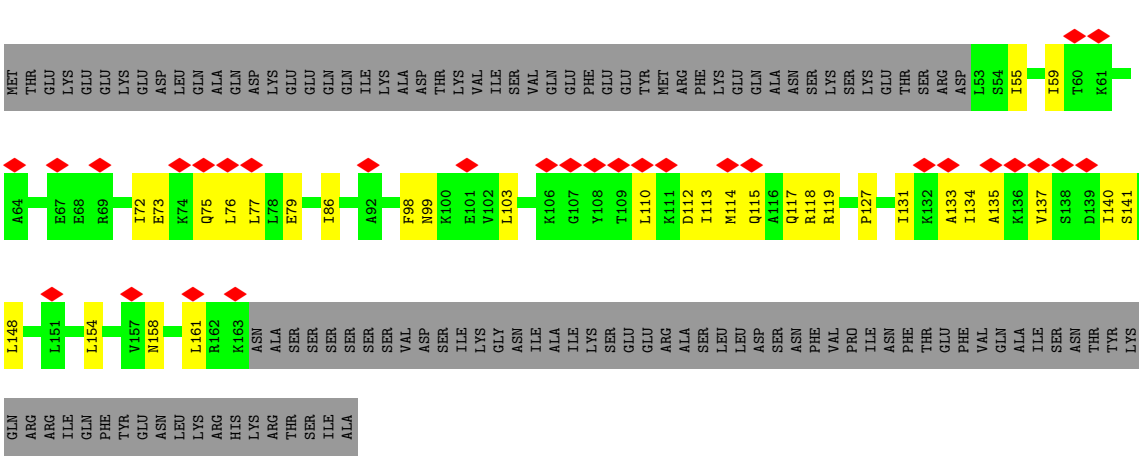




• Molecule 5: Scaffold protein

Chain Yj:

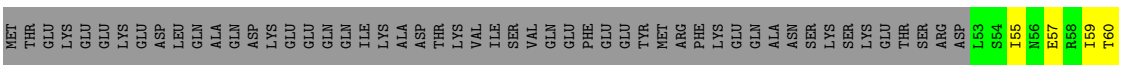


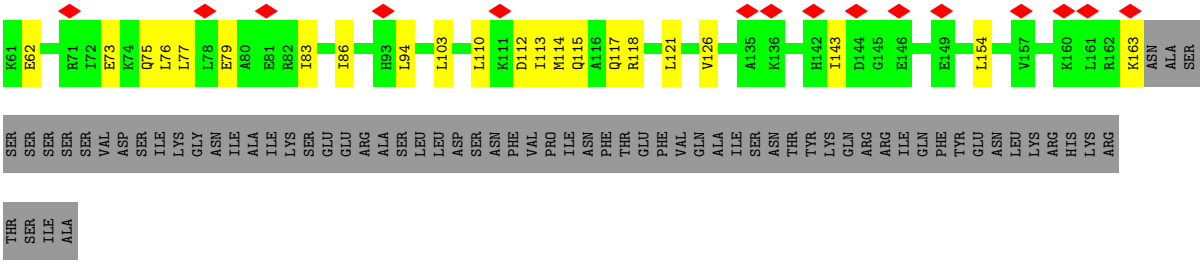


• Molecule 5: Scaffold protein

Chain Yk:



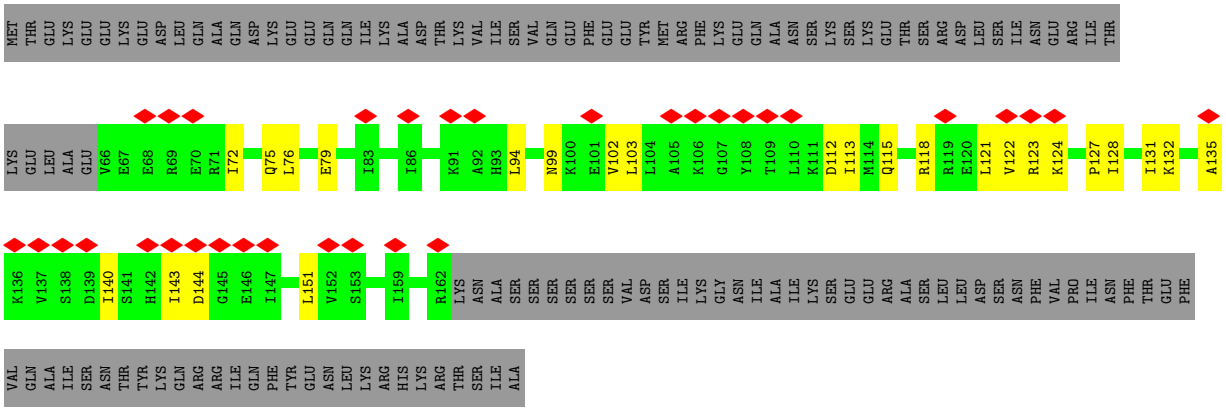




• Molecule 5: Scaffold protein

Chain Yl:

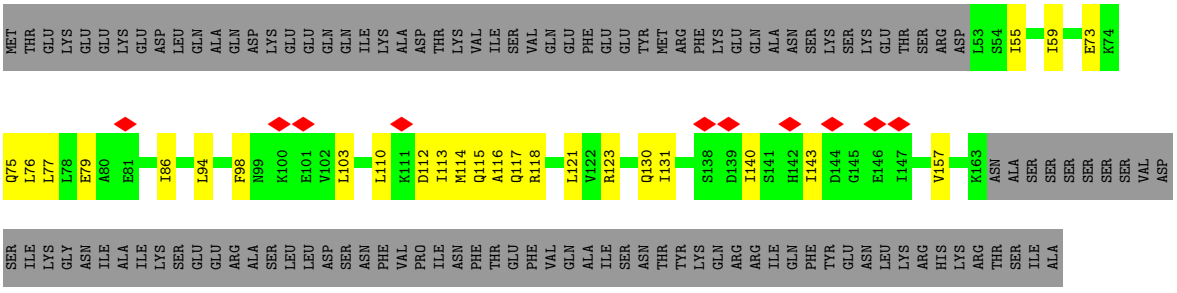




• Molecule 5: Scaffold protein

Chain Ym:

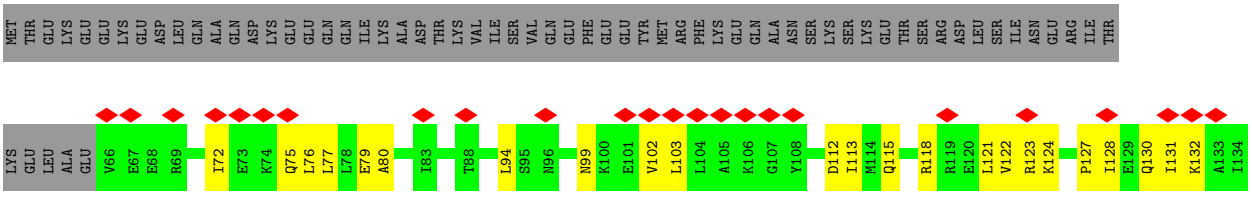


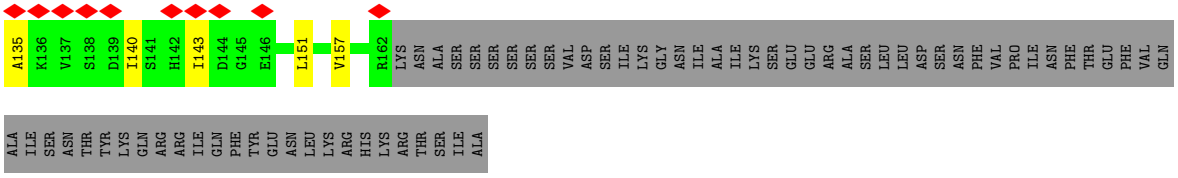


• Molecule 5: Scaffold protein

Chain Yn:



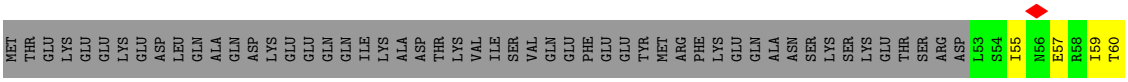


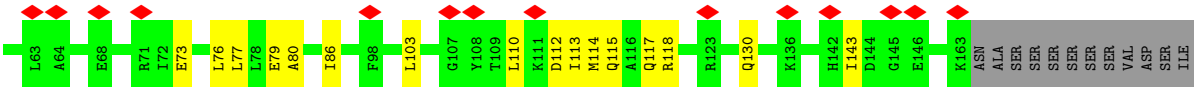


• Molecule 5: Scaffold protein

Chain Yo:





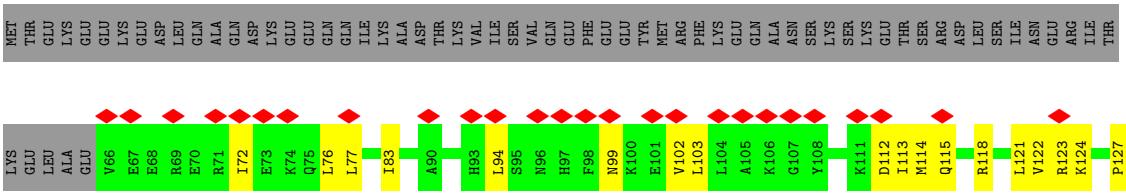




• Molecule 5: Scaffold protein

Chain Yp:

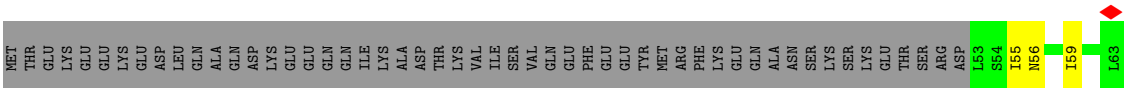


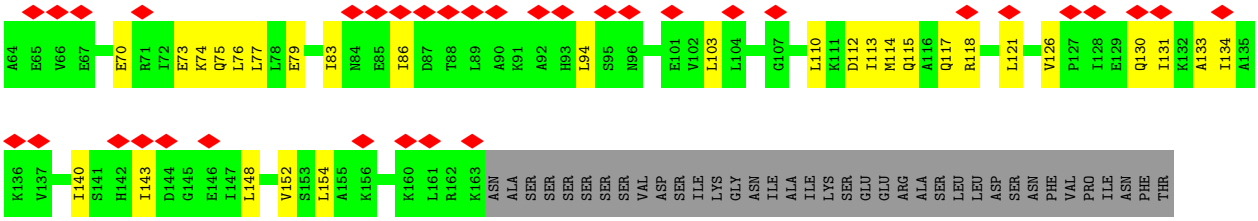


• Molecule 5: Scaffold protein

Chain Yq:





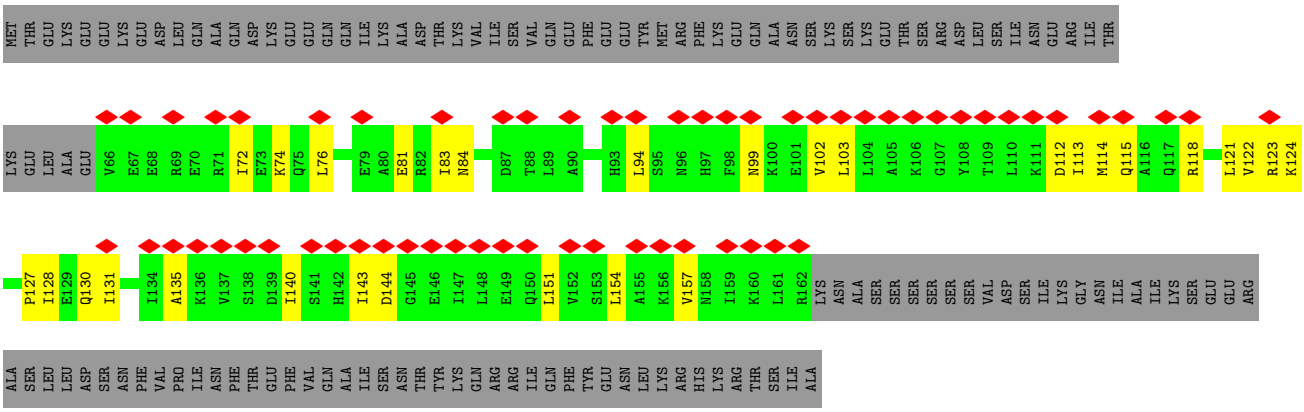




• Molecule 5: Scaffold protein

Chain Yr:

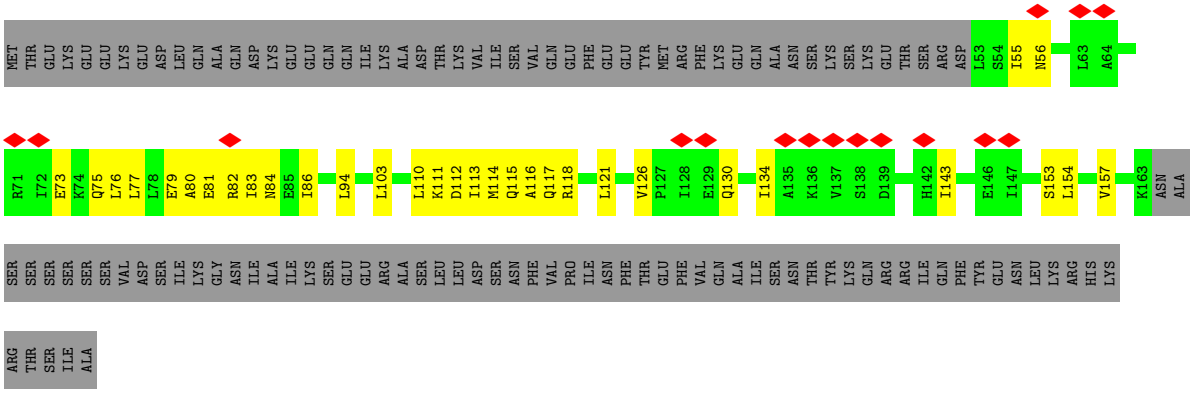




• Molecule 5: Scaffold protein

Chain Ys:

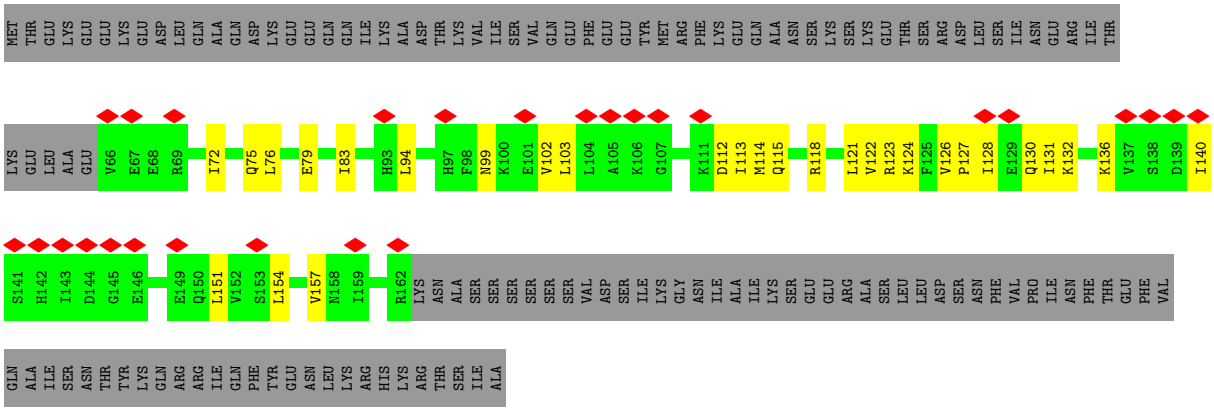




• Molecule 5: Scaffold protein

Chain Yt:

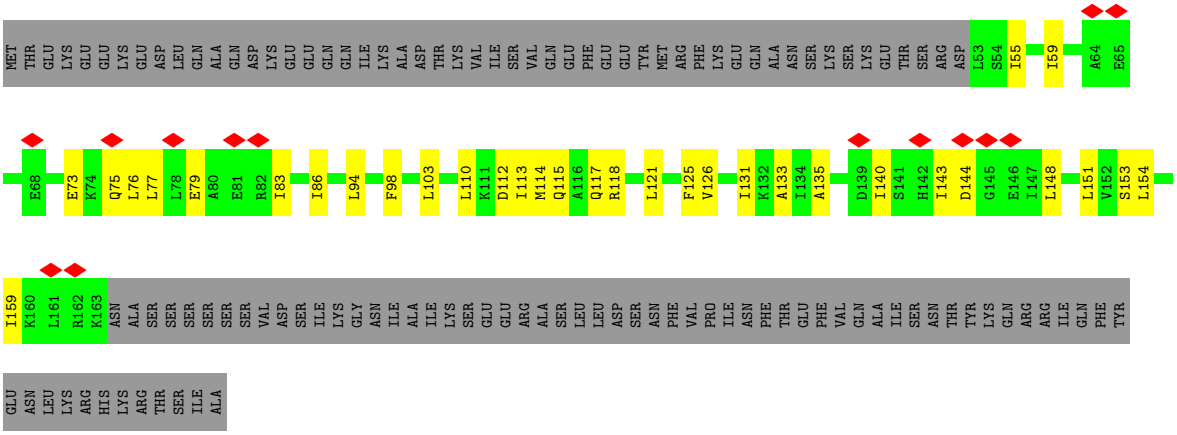




• Molecule 5: Scaffold protein

Chain Yu:

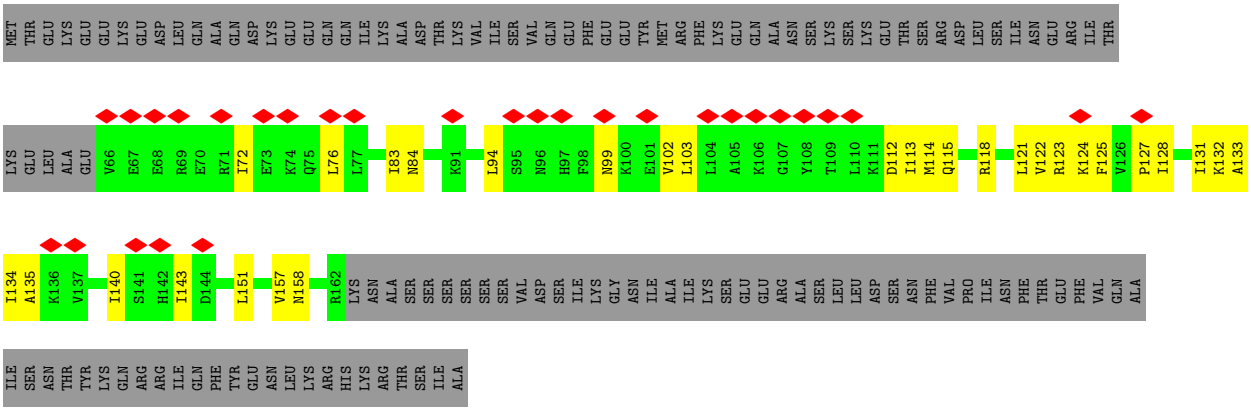




• Molecule 5: Scaffold protein

Chain Yv:

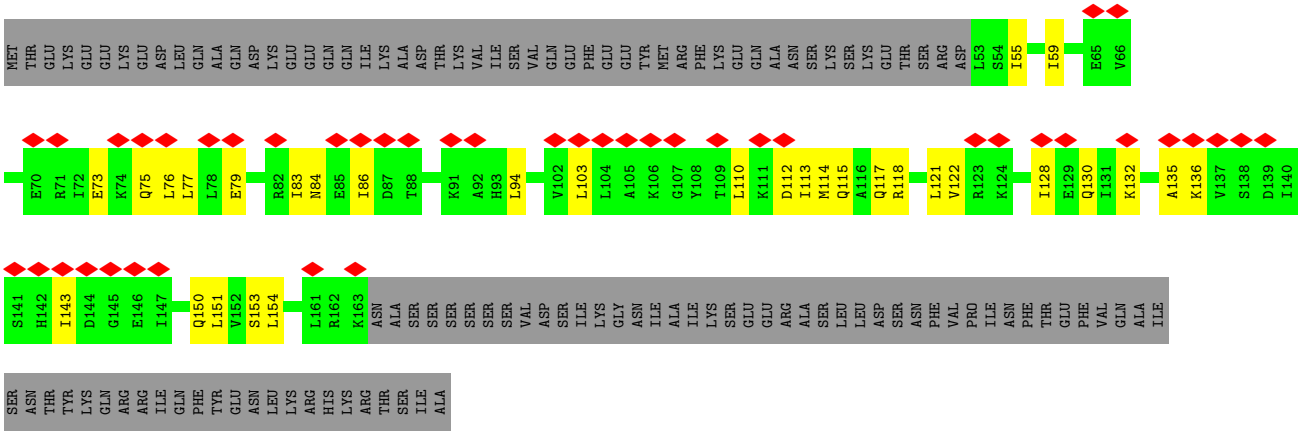




• Molecule 5: Scaffold protein

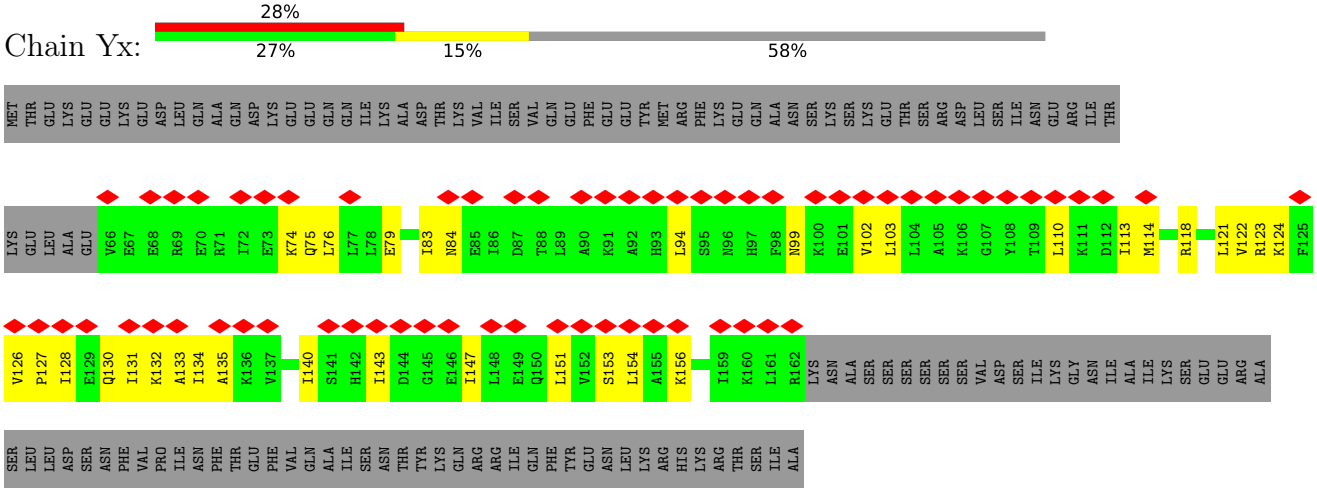
Chain Yw:





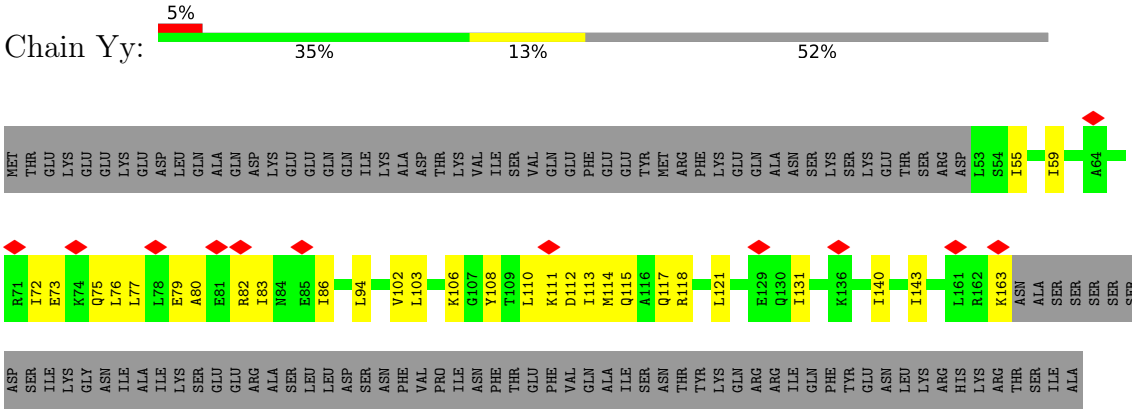
• Molecule 5: Scaffold protein

Chain Yx:



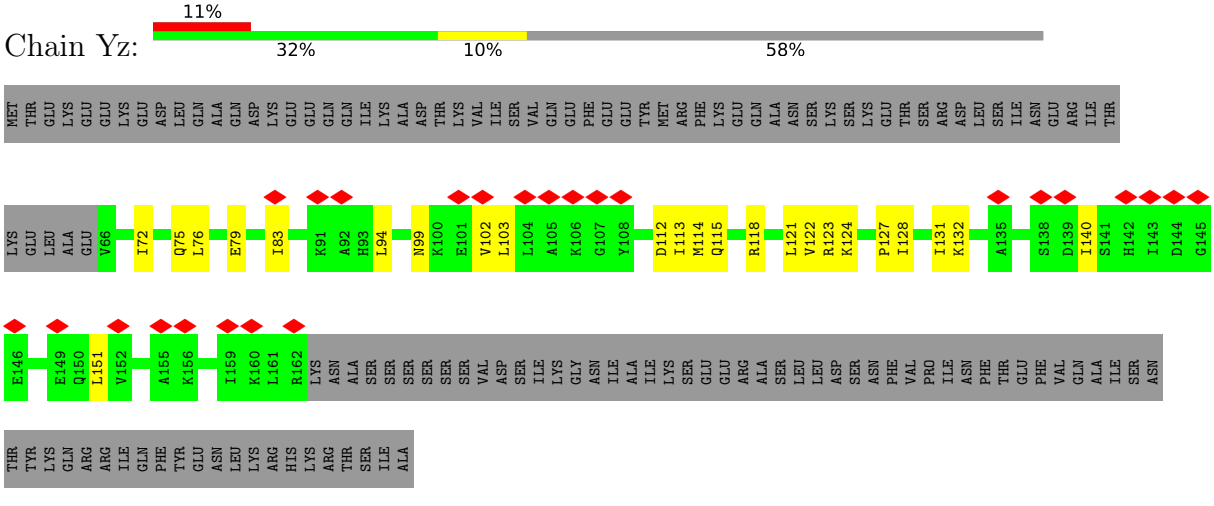
• Molecule 5: Scaffold protein

Chain Yy:



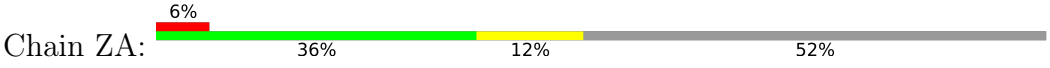
• Molecule 5: Scaffold protein

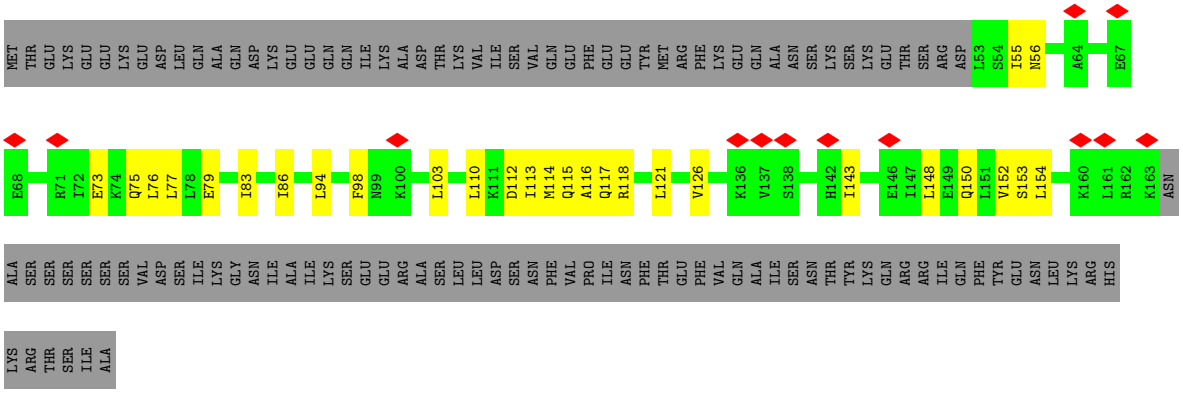
Chain Yz:



• Molecule 5: Scaffold protein

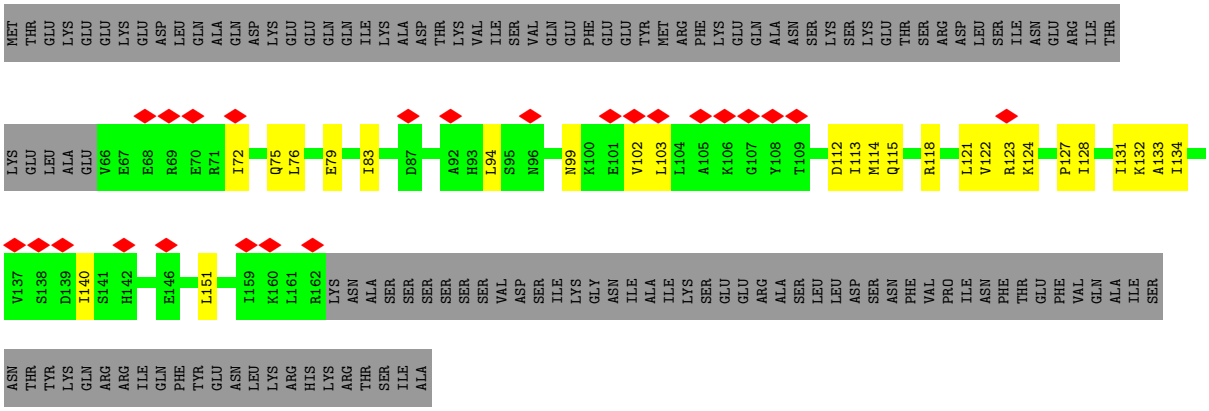
Chain ZA:



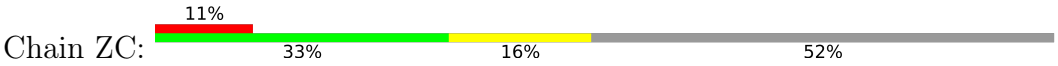


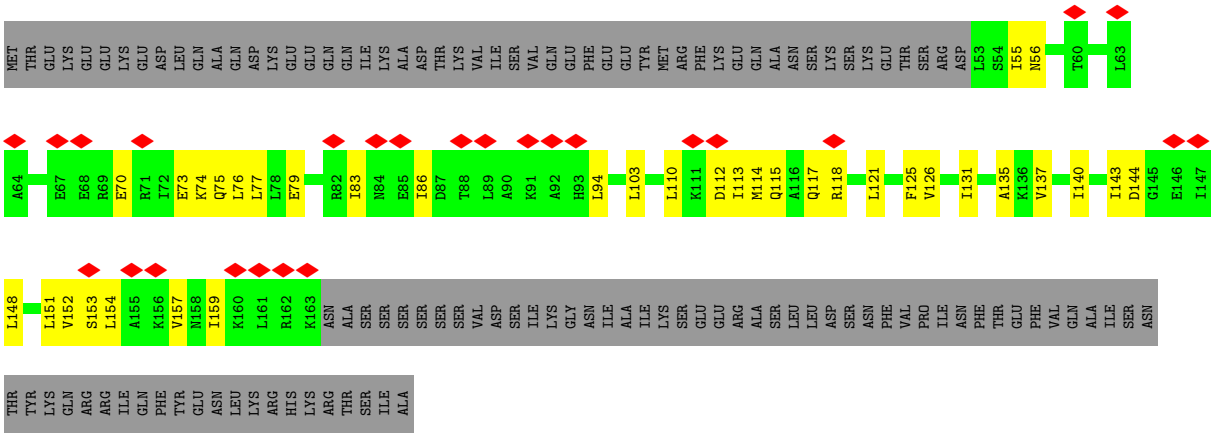
• Molecule 5: Scaffold protein



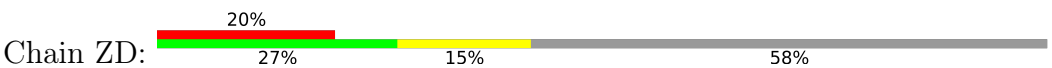


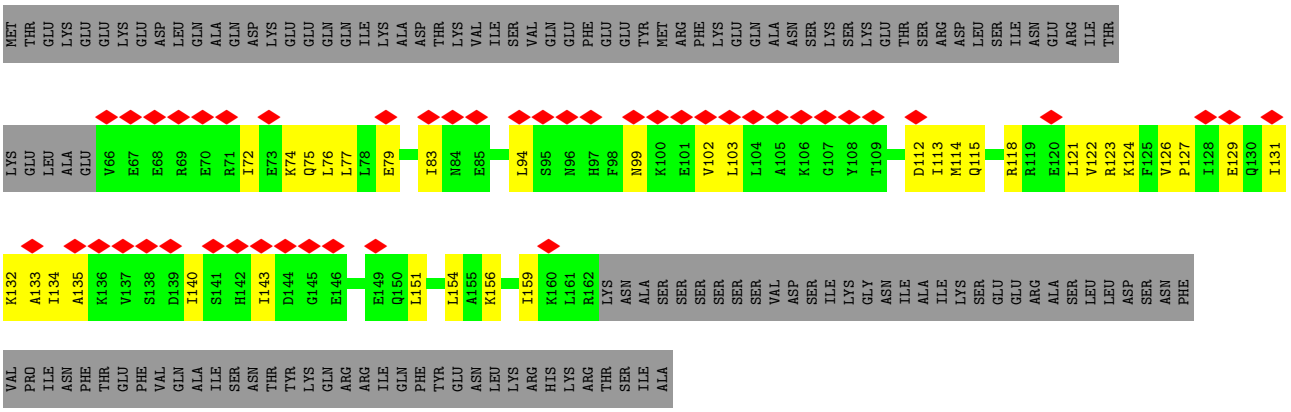
• Molecule 5: Scaffold protein





• Molecule 5: Scaffold protein

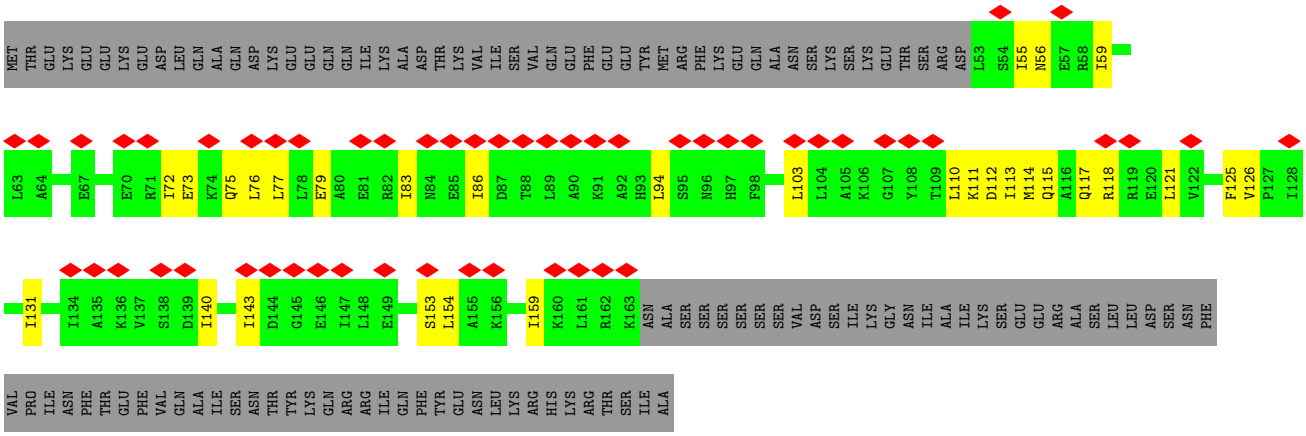




• Molecule 5: Scaffold protein

Chain ZE:

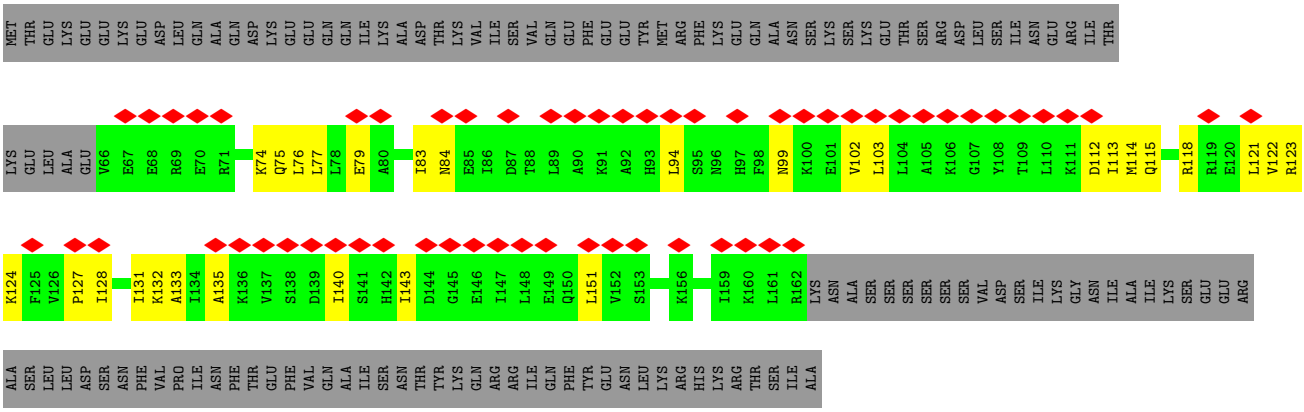




• Molecule 5: Scaffold protein

Chain ZF:

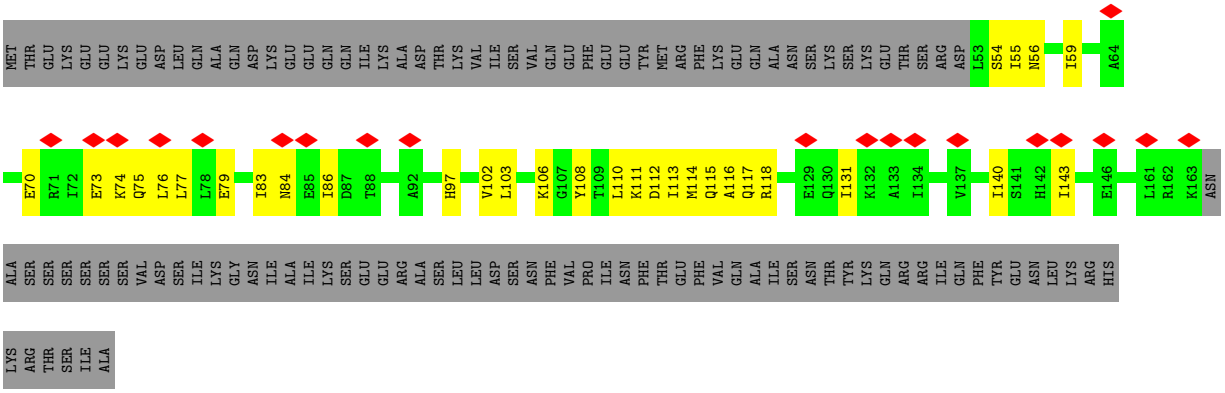




• Molecule 5: Scaffold protein

Chain ZG:

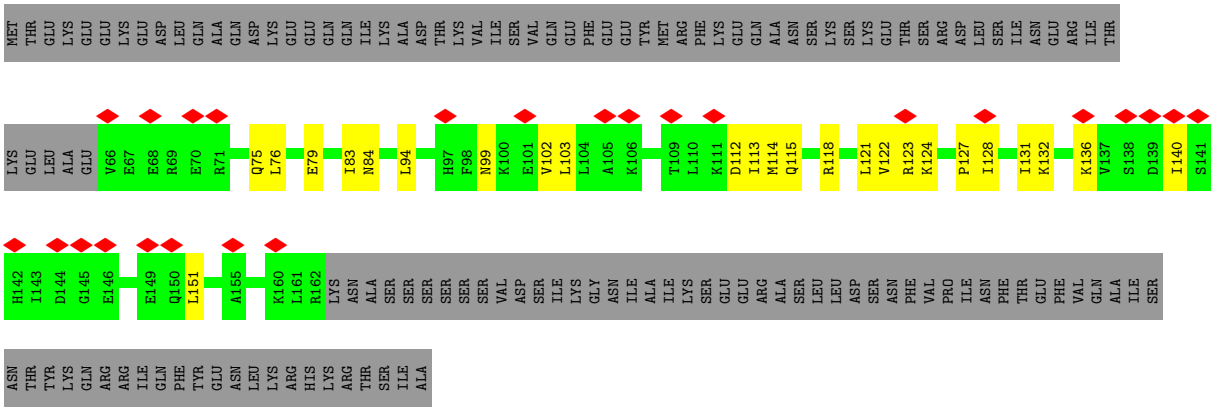




• Molecule 5: Scaffold protein

Chain ZH:

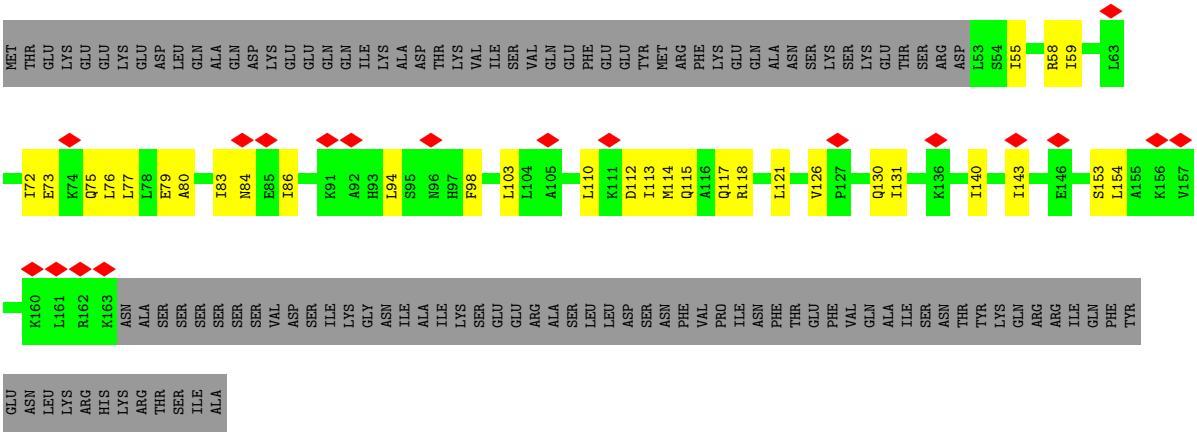




• Molecule 5: Scaffold protein

Chain ZI:

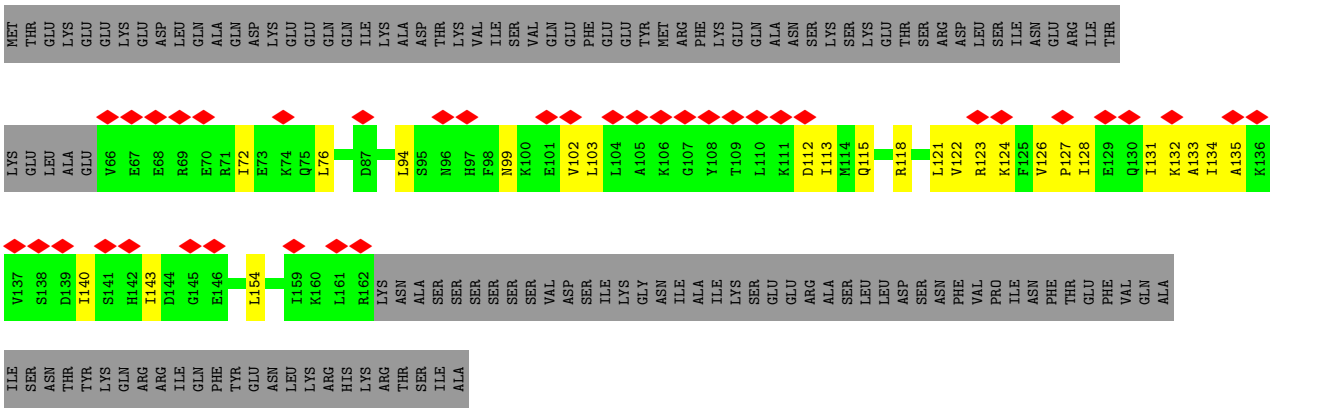




• Molecule 5: Scaffold protein

Chain ZJ:

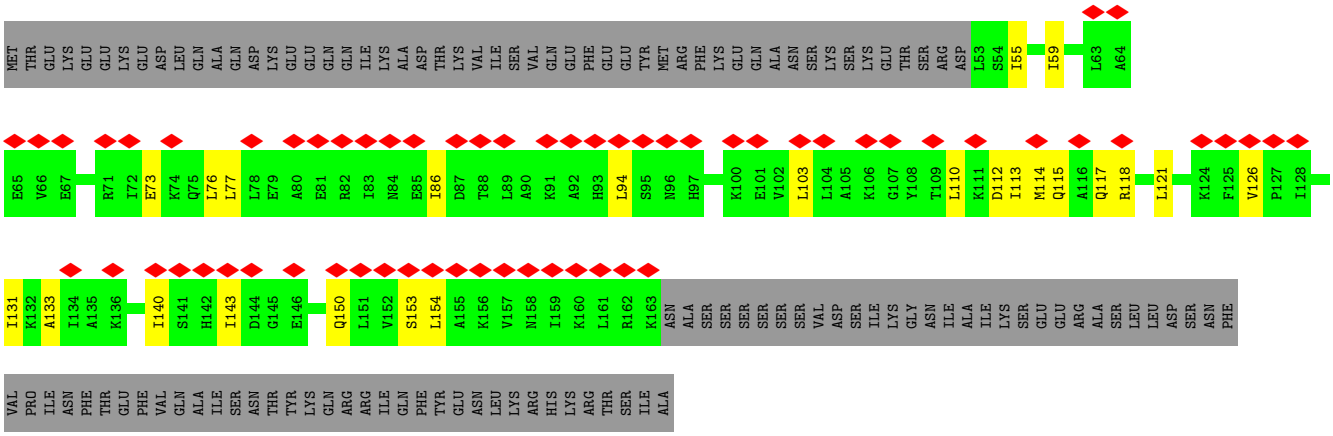




• Molecule 5: Scaffold protein

Chain ZK:

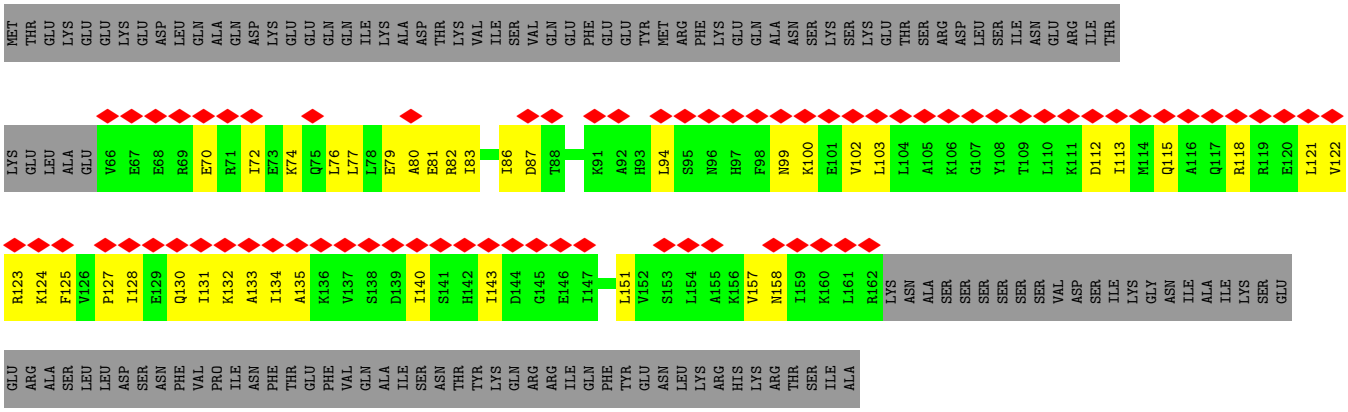




• Molecule 5: Scaffold protein

Chain ZL:

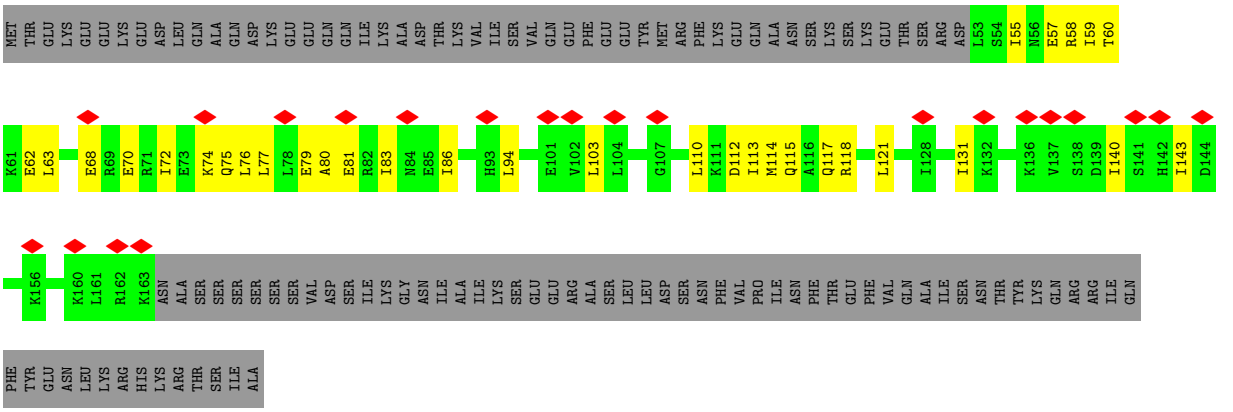




• Molecule 5: Scaffold protein

Chain ZM:

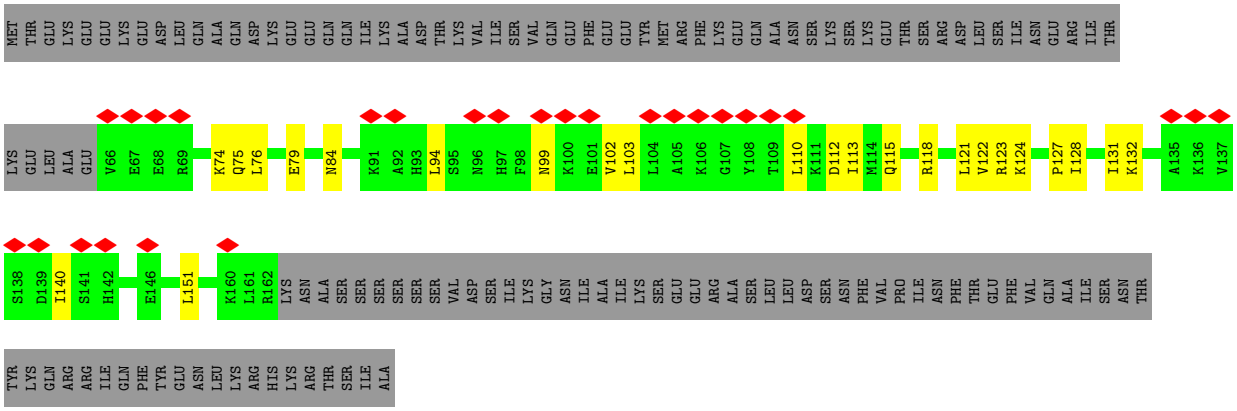




• Molecule 5: Scaffold protein

Chain ZN:

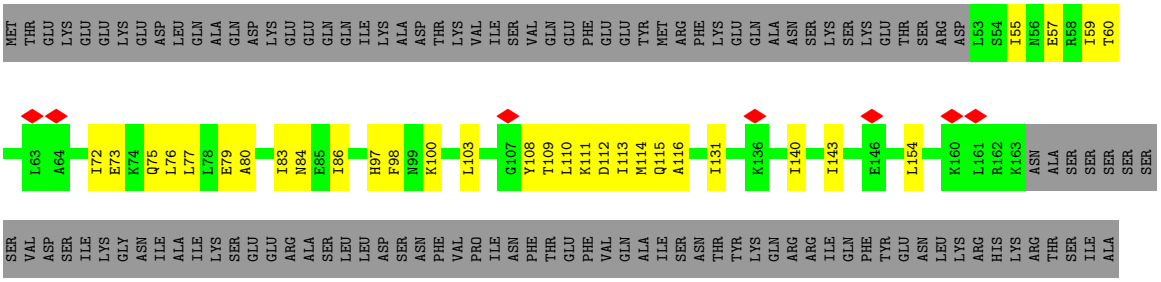




• Molecule 5: Scaffold protein

Chain ZO:

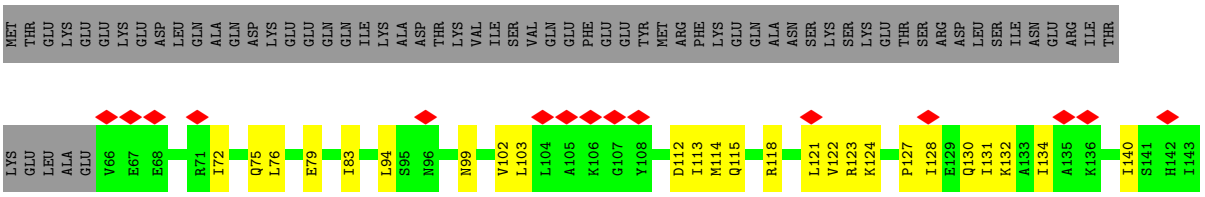


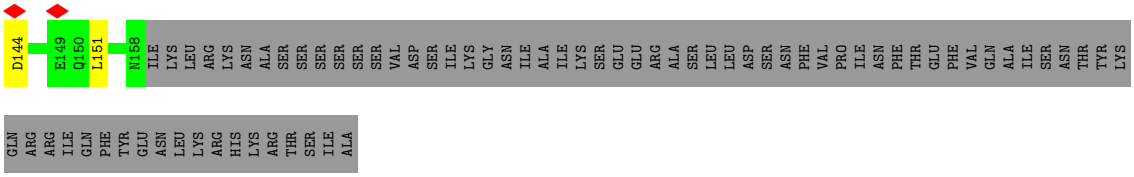


• Molecule 5: Scaffold protein

Chain ZP:





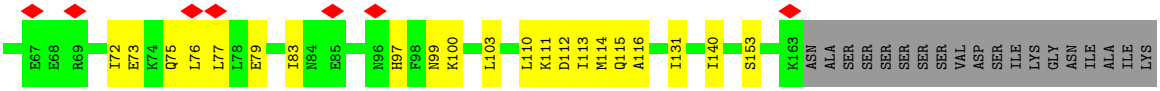


• Molecule 5: Scaffold protein

Chain ZQ:









• Molecule 5: Scaffold protein

Chain ZR:



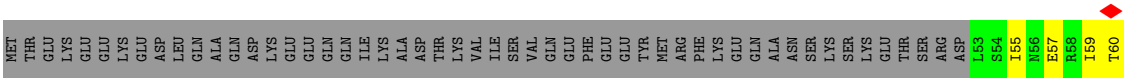


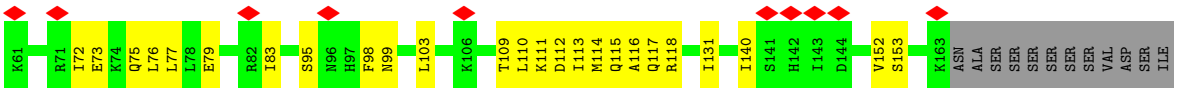


• Molecule 5: Scaffold protein

Chain ZS:



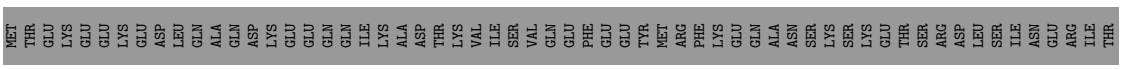


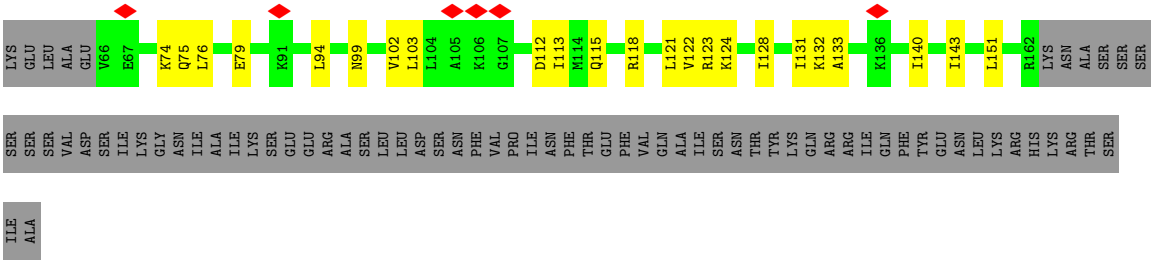


• Molecule 5: Scaffold protein

Chain ZT:





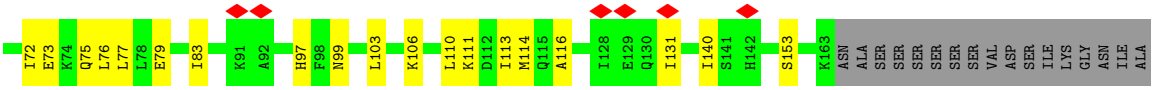


• Molecule 5: Scaffold protein

Chain ZU:







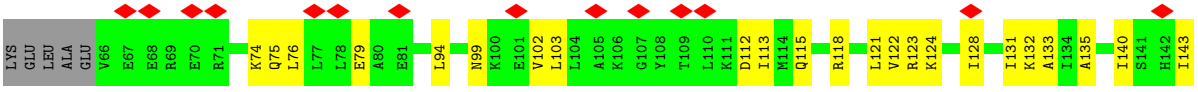


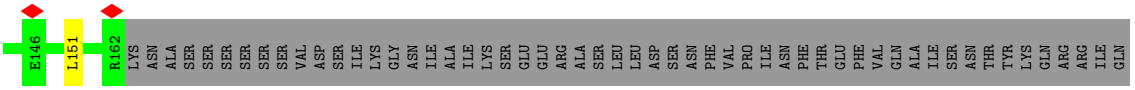
• Molecule 5: Scaffold protein

Chain ZV:









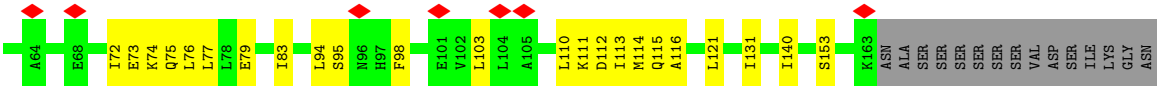


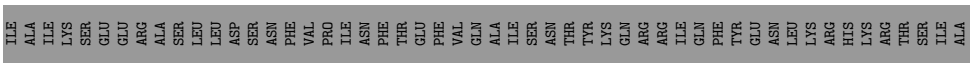
• Molecule 5: Scaffold protein

Chain ZW:



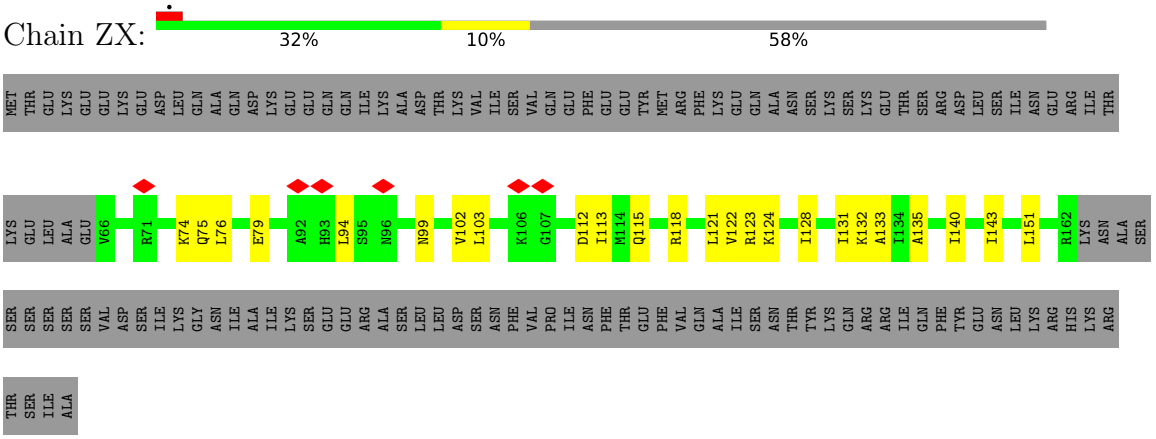






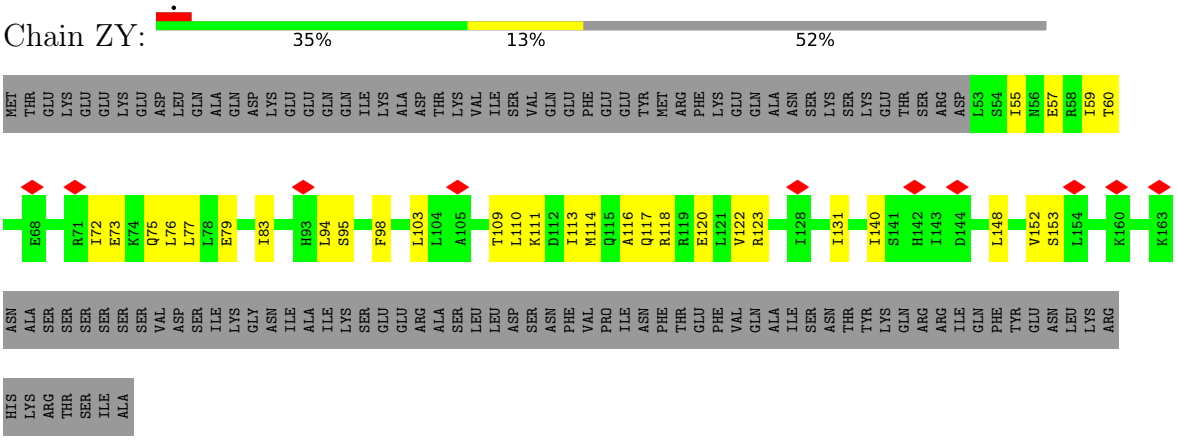
• Molecule 5: Scaffold protein

Chain ZX:



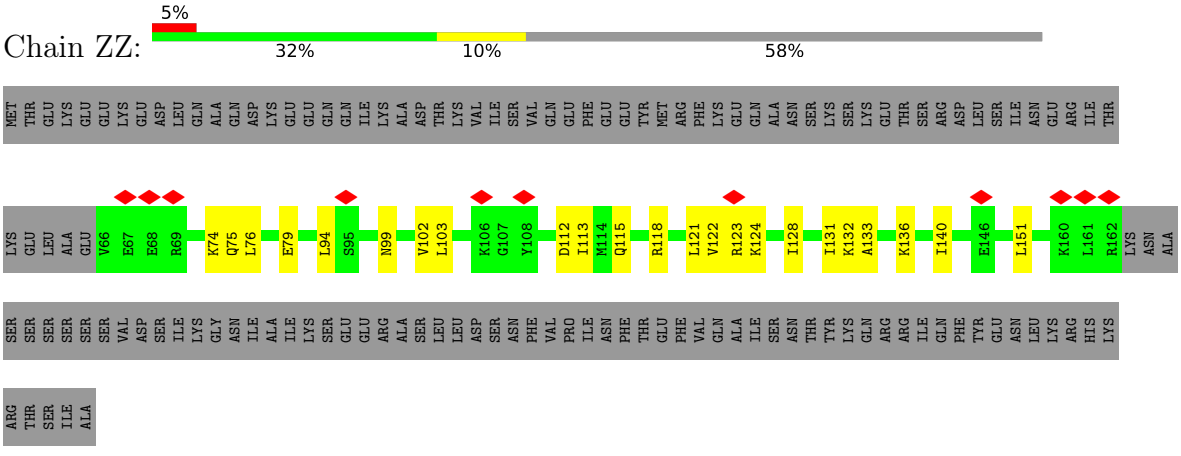
• Molecule 5: Scaffold protein

Chain ZY:



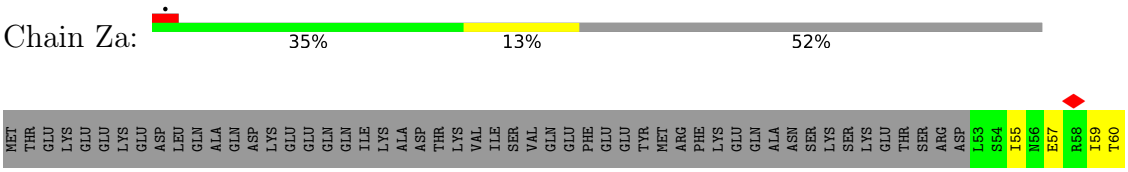
• Molecule 5: Scaffold protein

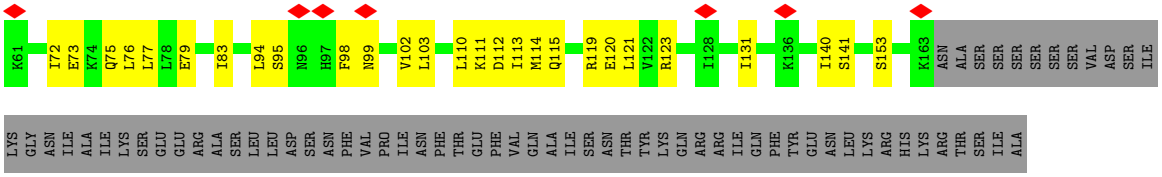
Chain ZZ:



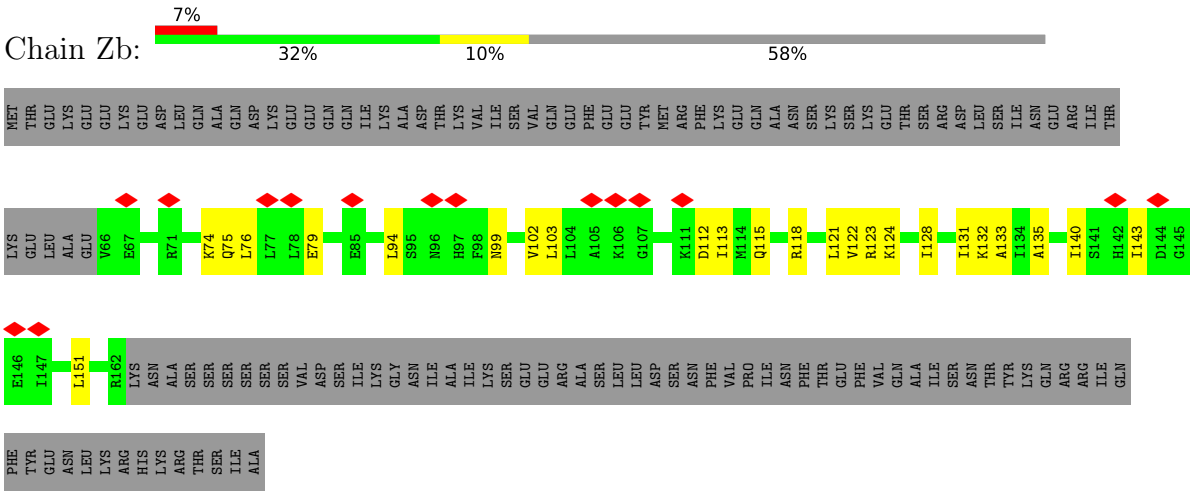
• Molecule 5: Scaffold protein

Chain Za:

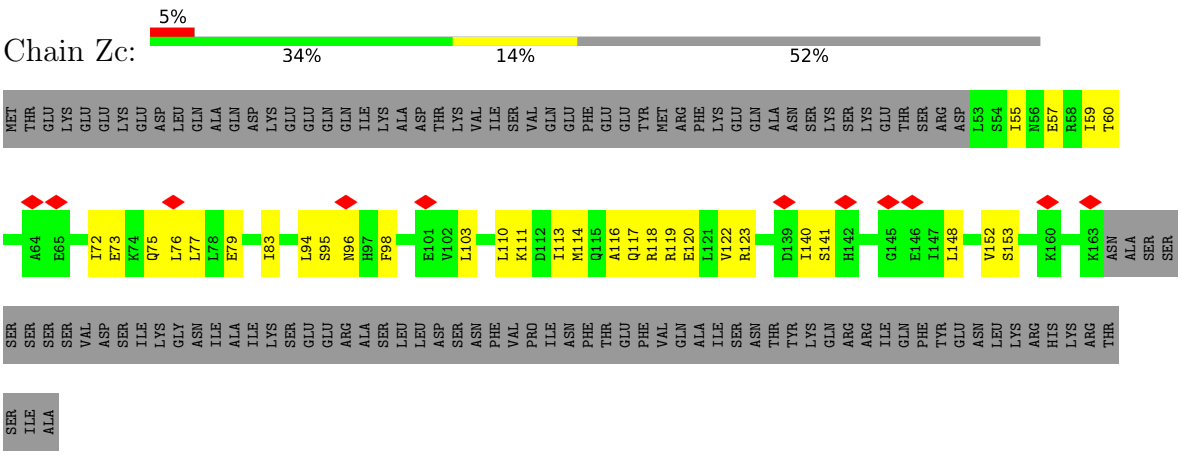




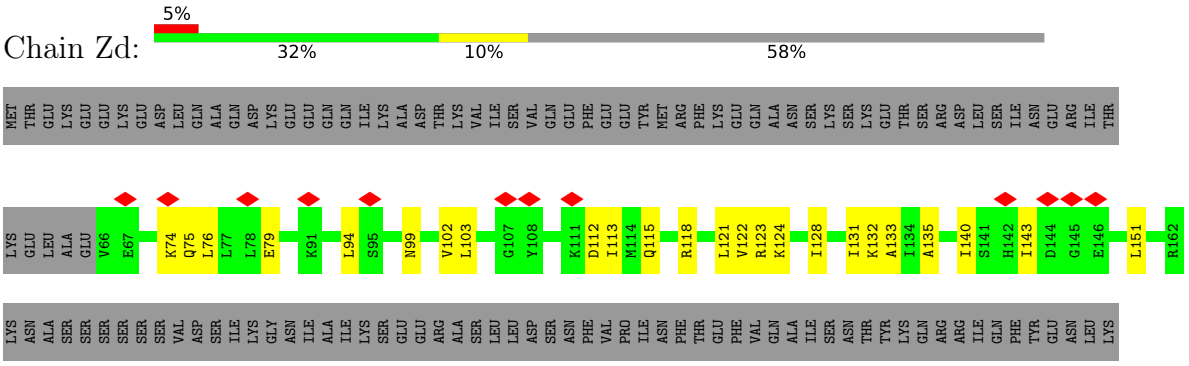
• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

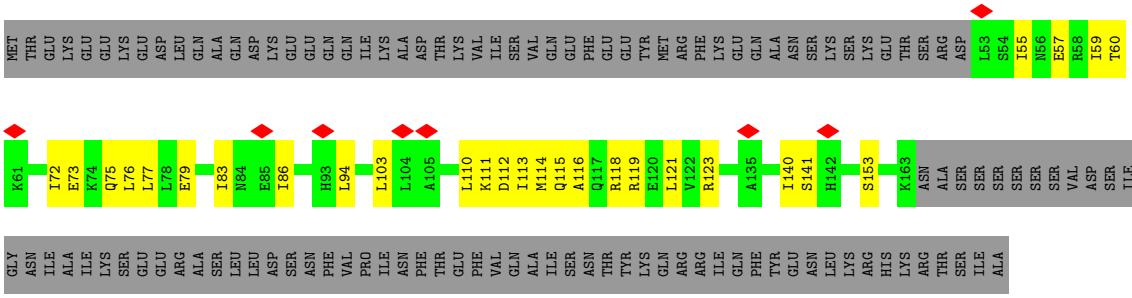




• Molecule 5: Scaffold protein

Chain Ze:

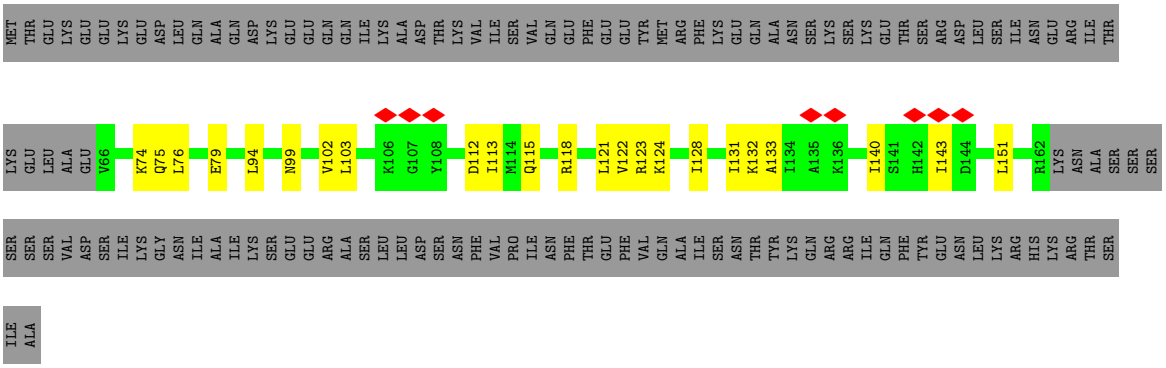




• Molecule 5: Scaffold protein

Chain Zf:

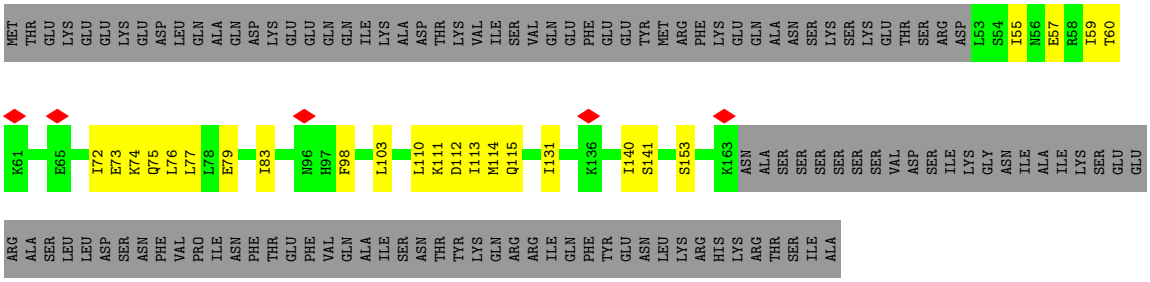




• Molecule 5: Scaffold protein

Chain Zg:

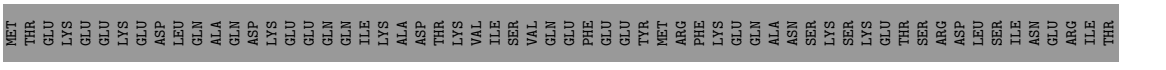


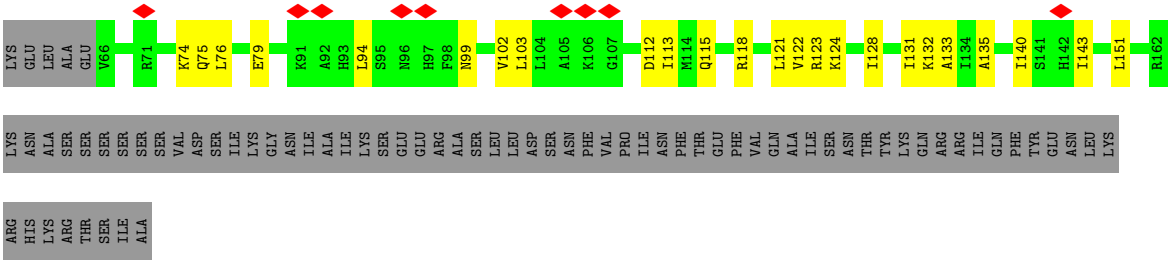


• Molecule 5: Scaffold protein

Chain Zh:



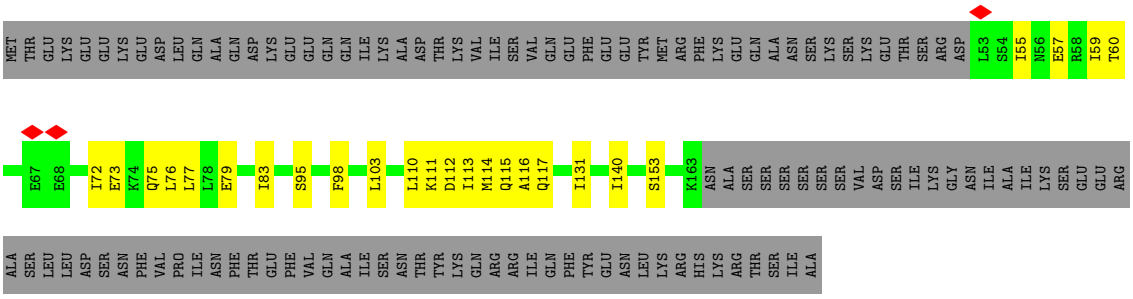




• Molecule 5: Scaffold protein

Chain Zi:

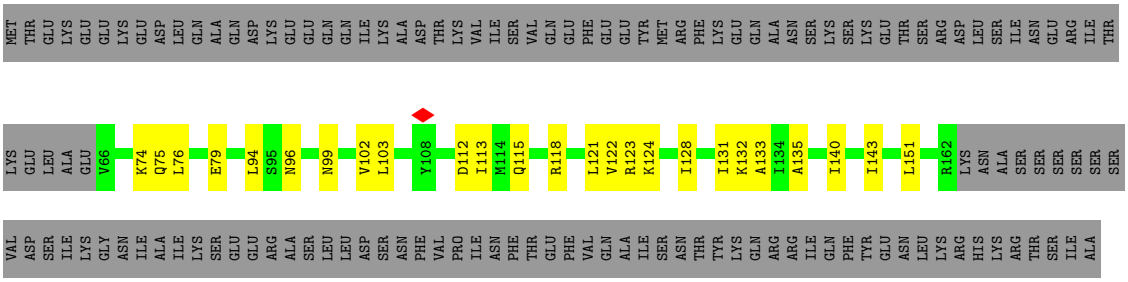




• Molecule 5: Scaffold protein

Chain Zj:

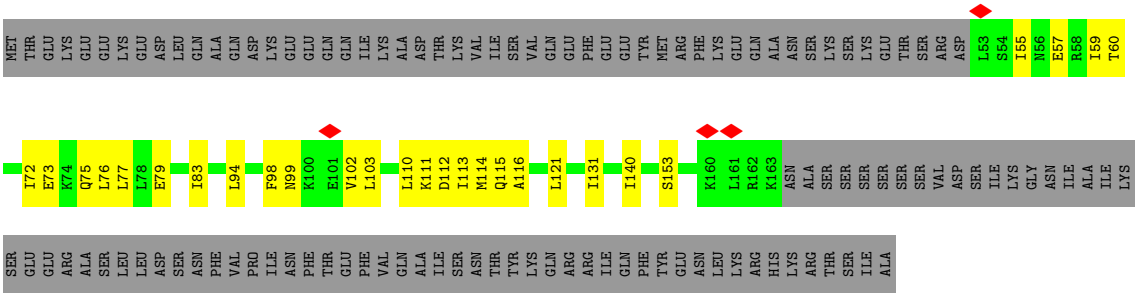




• Molecule 5: Scaffold protein

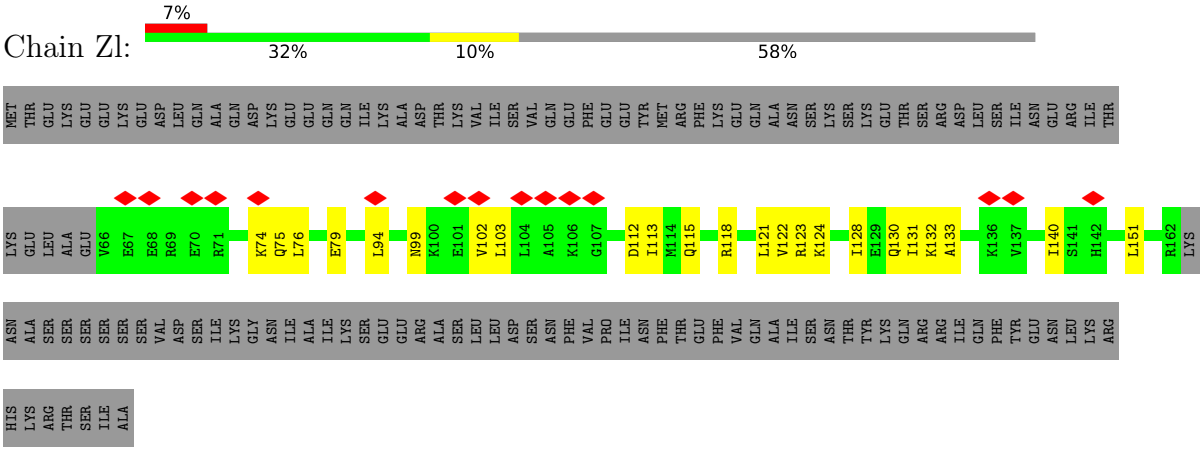
Chain Zk:





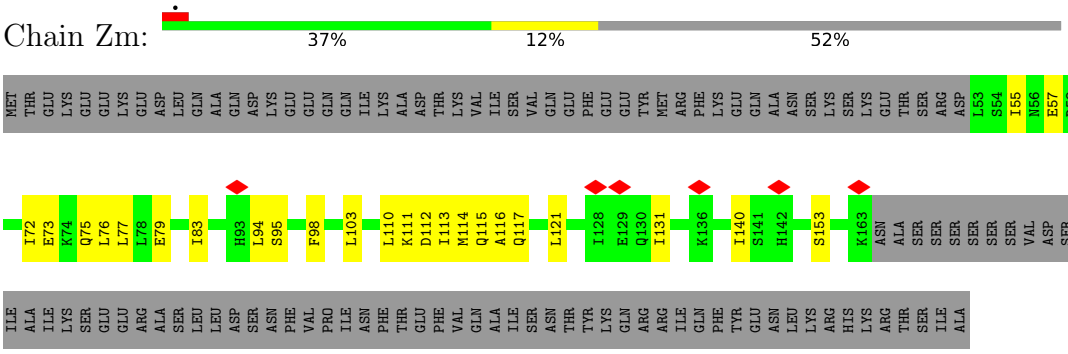
• Molecule 5: Scaffold protein

Chain Zl:



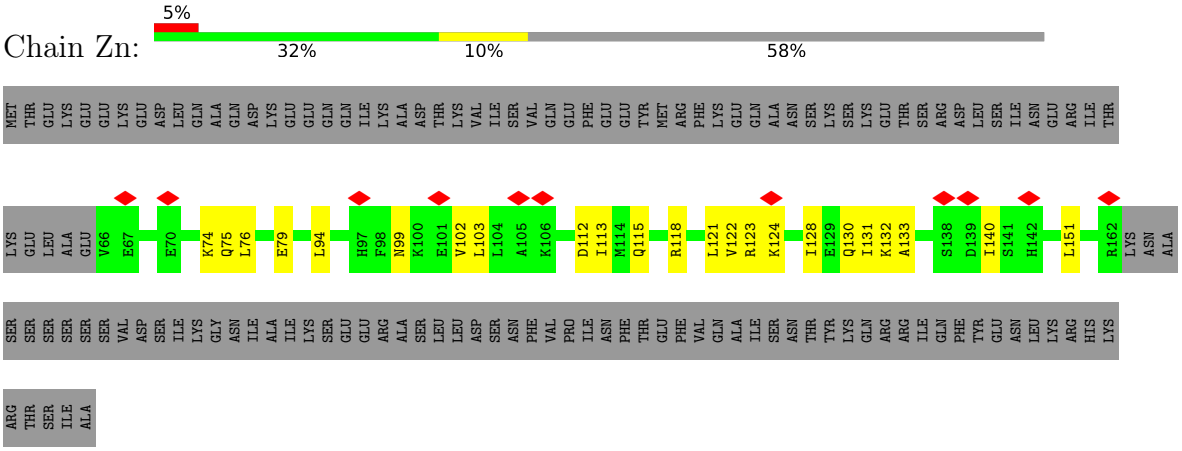
• Molecule 5: Scaffold protein

Chain Zm:



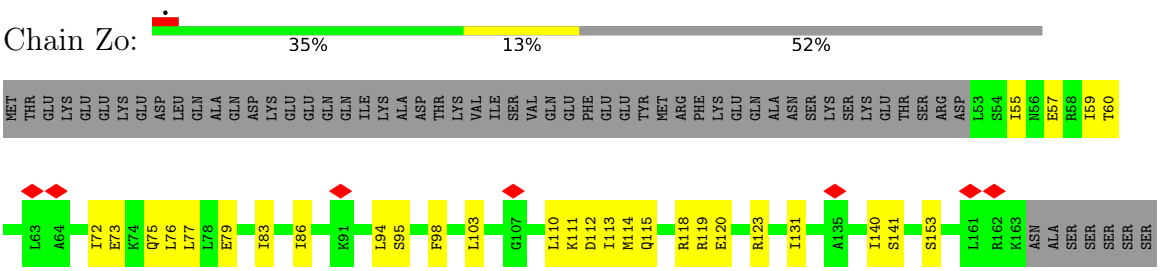
• Molecule 5: Scaffold protein

Chain Zn:



• Molecule 5: Scaffold protein

Chain Zo:

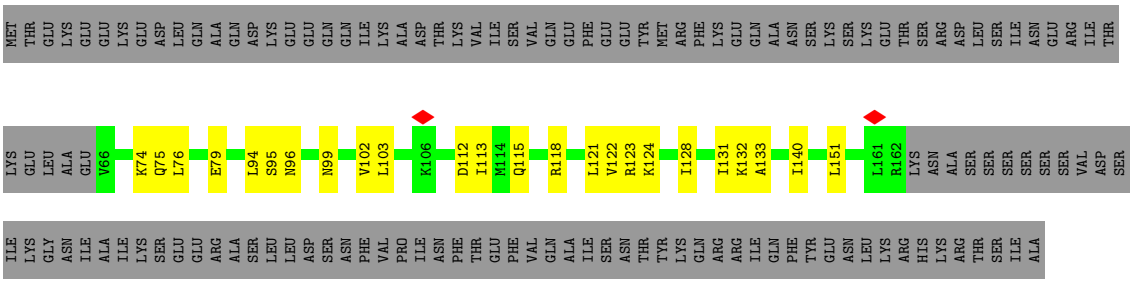




• Molecule 5: Scaffold protein

Chain Zp:

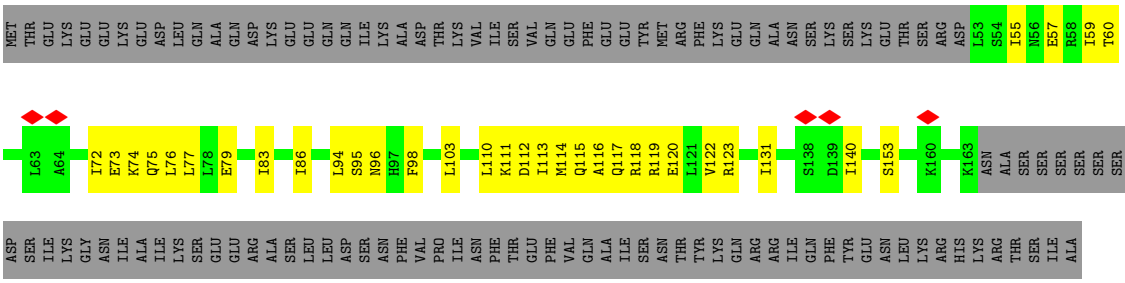




• Molecule 5: Scaffold protein

Chain Zq:

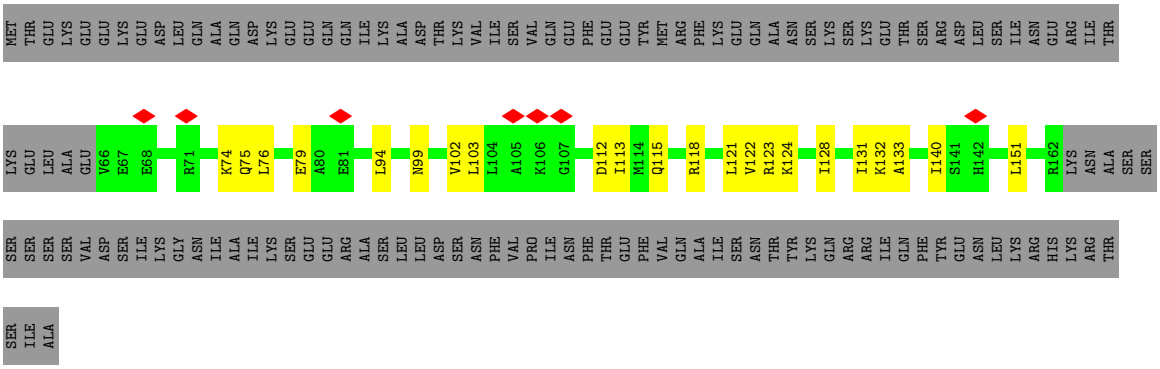




• Molecule 5: Scaffold protein

Chain Zr:

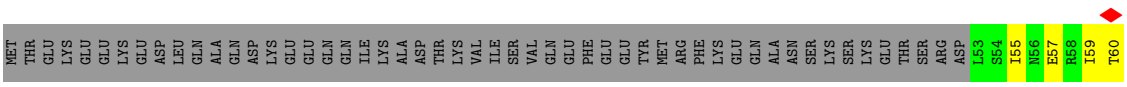


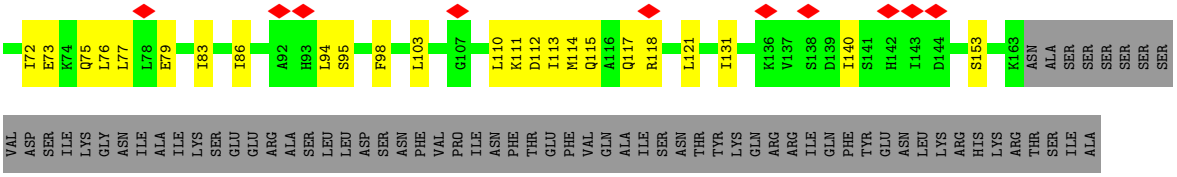


• Molecule 5: Scaffold protein

Chain Zs:



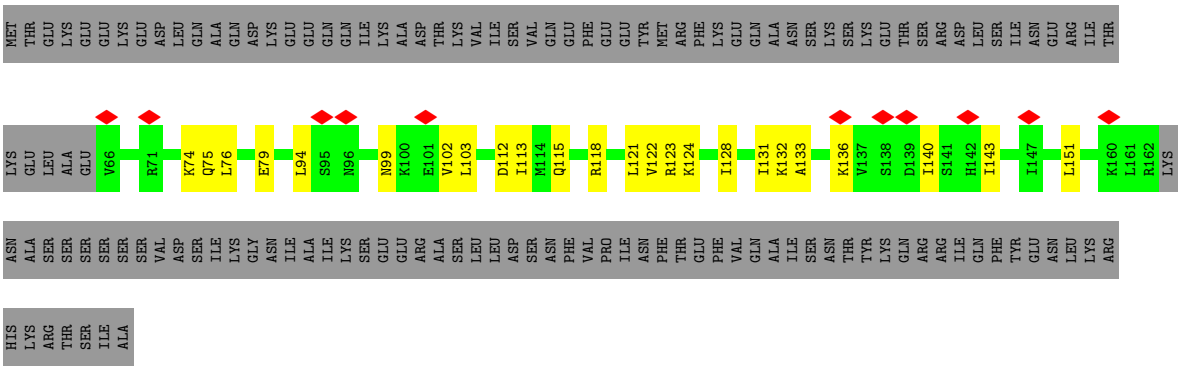




• Molecule 5: Scaffold protein

Chain Zt:

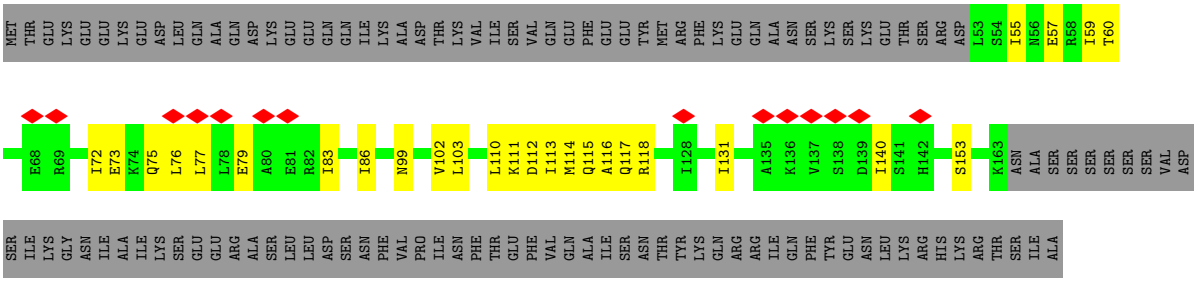




• Molecule 5: Scaffold protein

Chain Zu:

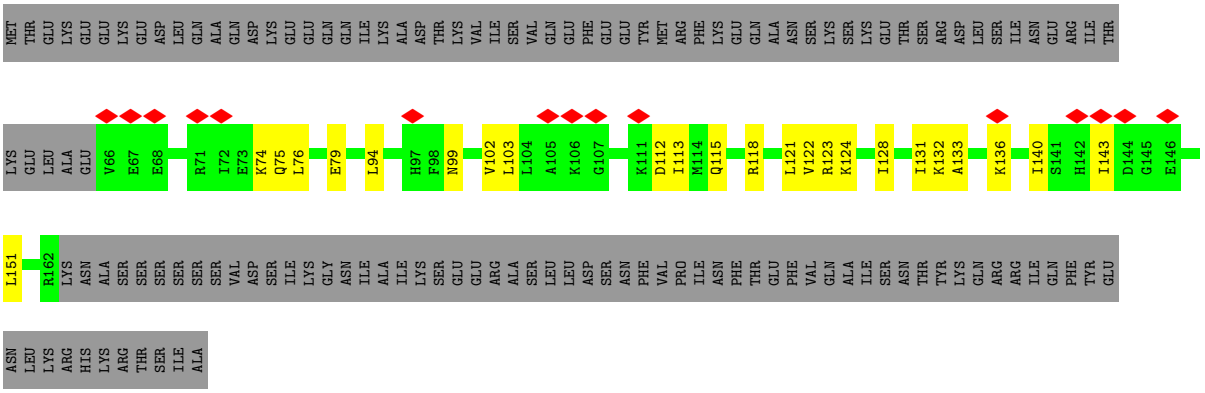




• Molecule 5: Scaffold protein

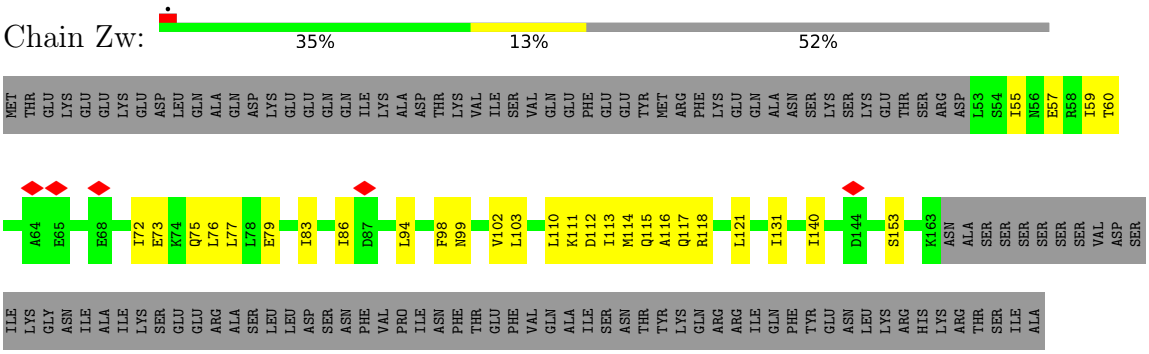
Chain Zv:





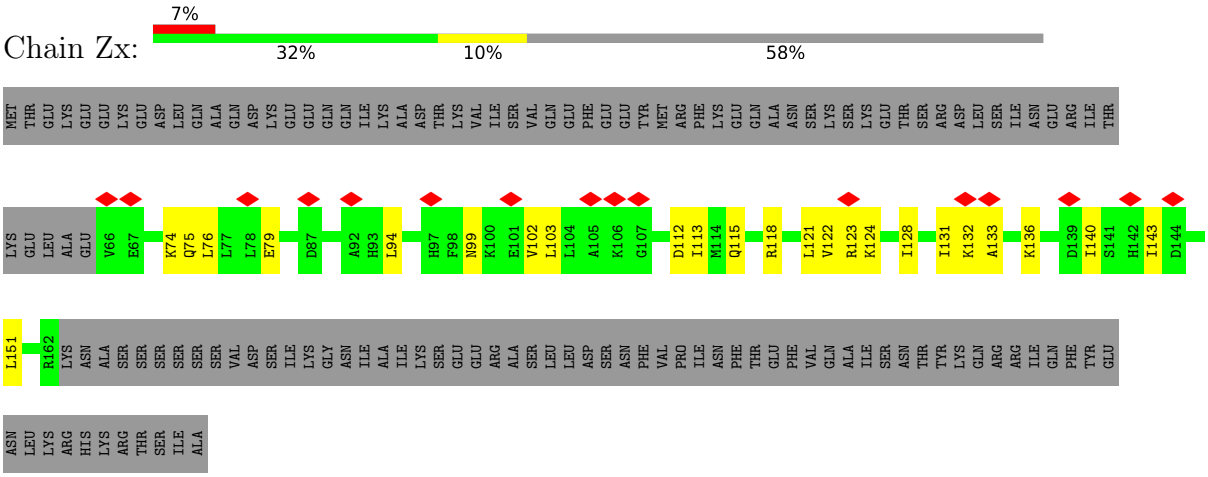
• Molecule 5: Scaffold protein

Chain Zw:



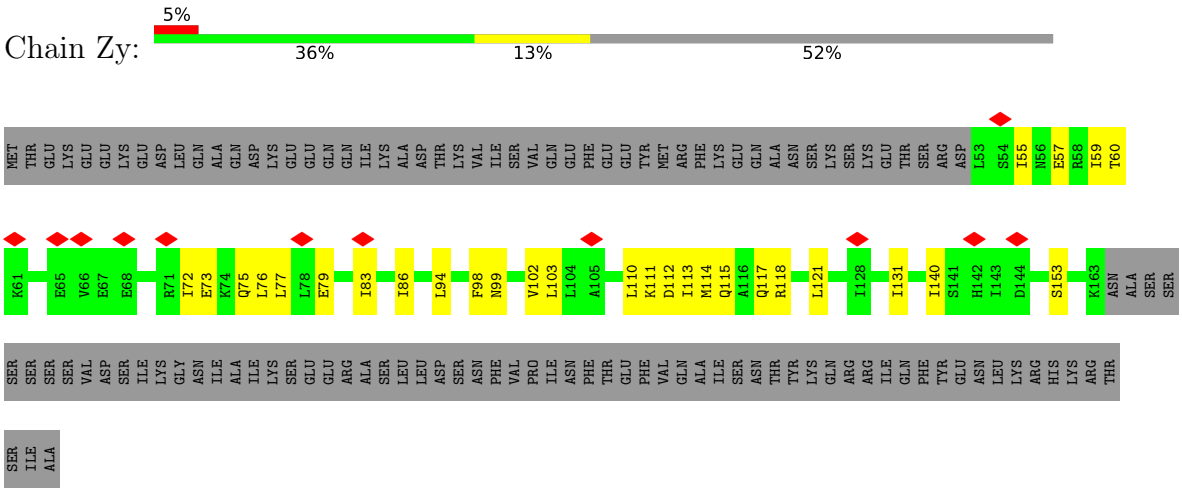
• Molecule 5: Scaffold protein

Chain Zx:



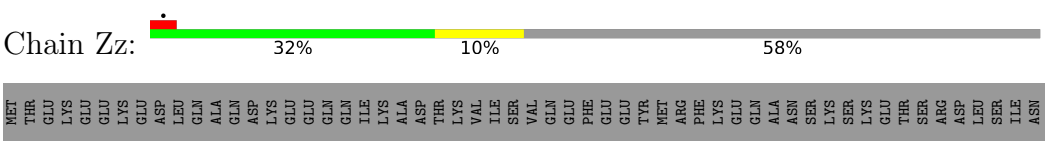
• Molecule 5: Scaffold protein

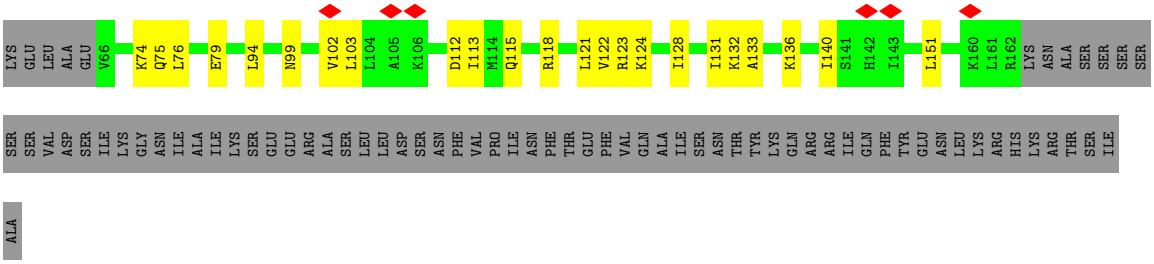
Chain Zy:



• Molecule 5: Scaffold protein

Chain Zz:

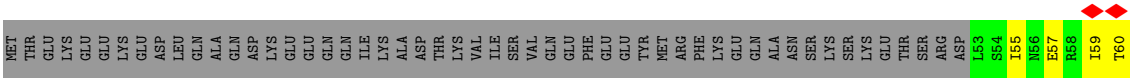


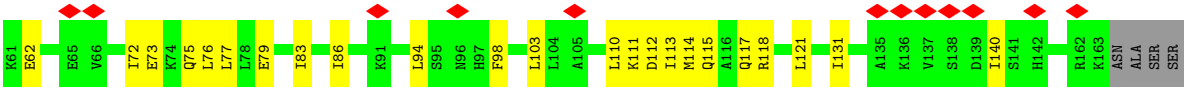


• Molecule 5: Scaffold protein

Chain aA:











• Molecule 5: Scaffold protein

Chain aB:









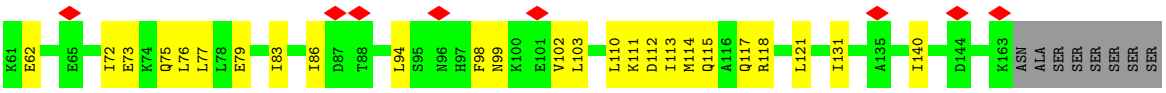


• Molecule 5: Scaffold protein

Chain aC:





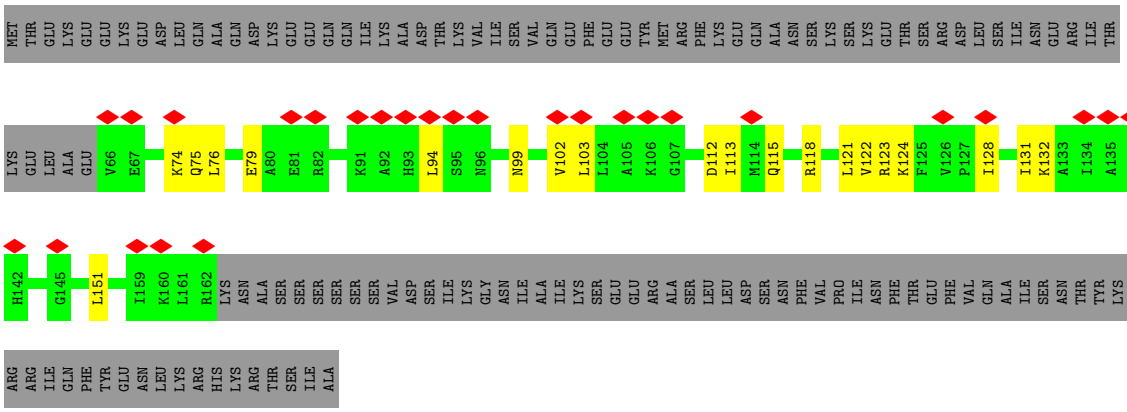




• Molecule 5: Scaffold protein

Chain aD:

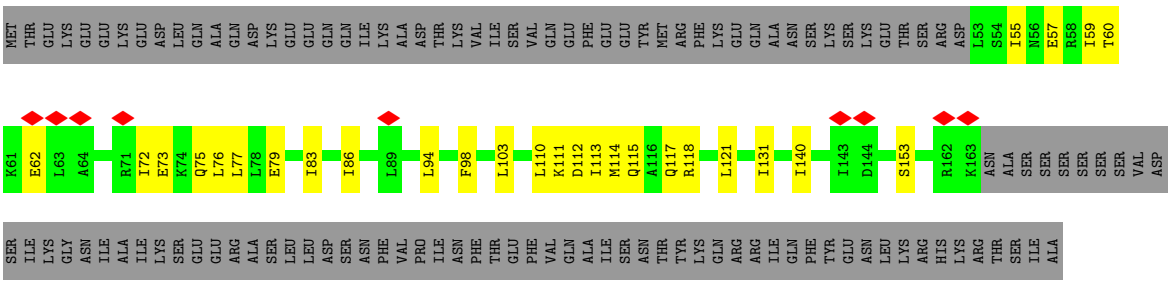




• Molecule 5: Scaffold protein

Chain aE:

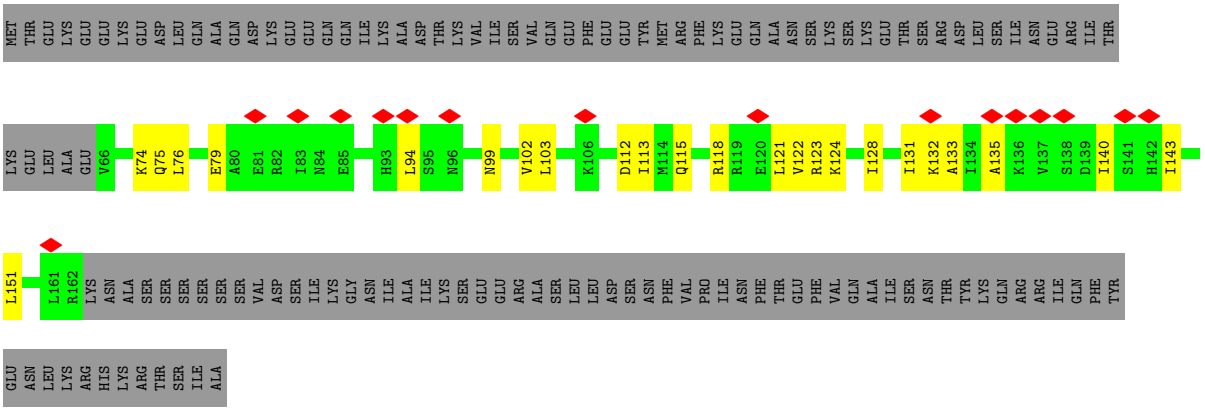




• Molecule 5: Scaffold protein

Chain aF:

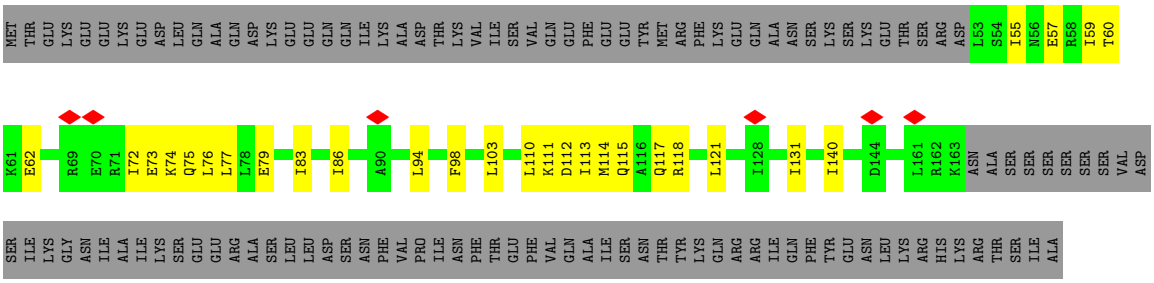




• Molecule 5: Scaffold protein

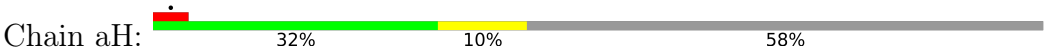
Chain aG:

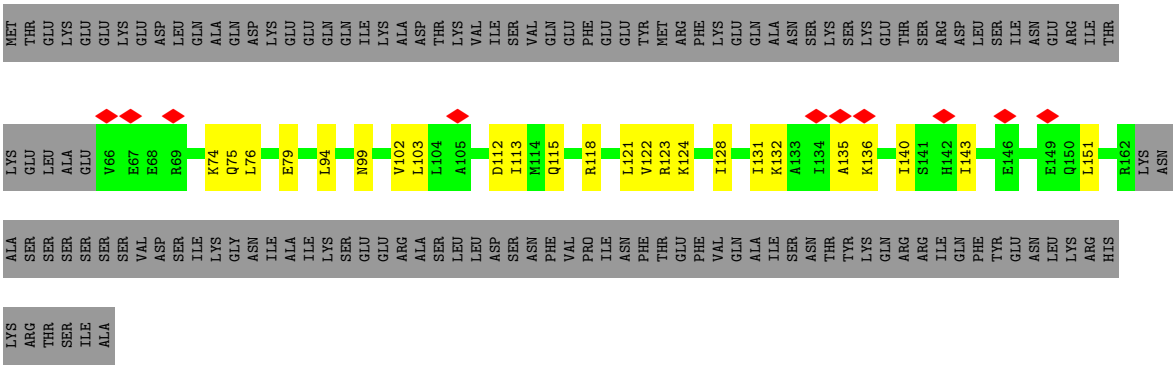




• Molecule 5: Scaffold protein

Chain aH:

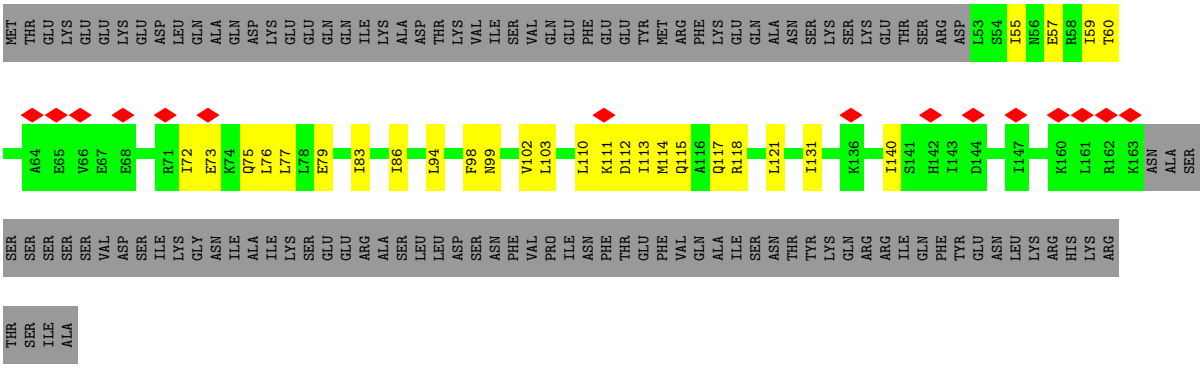




• Molecule 5: Scaffold protein

Chain aI:

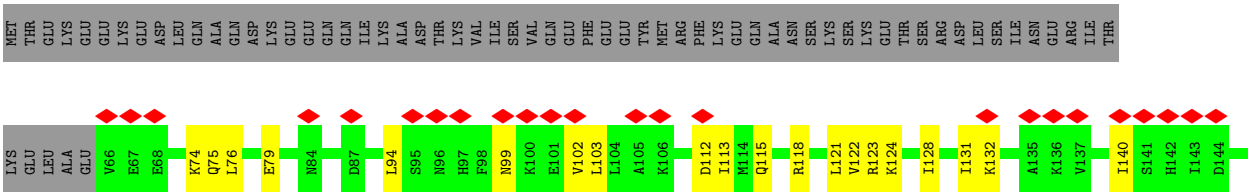


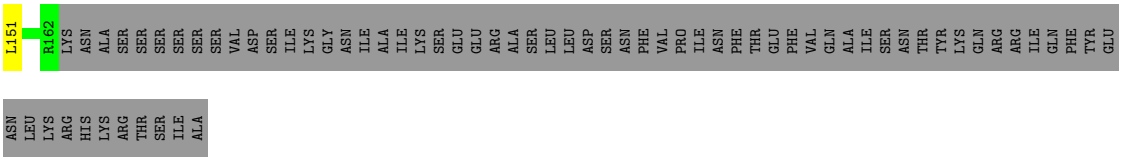


• Molecule 5: Scaffold protein

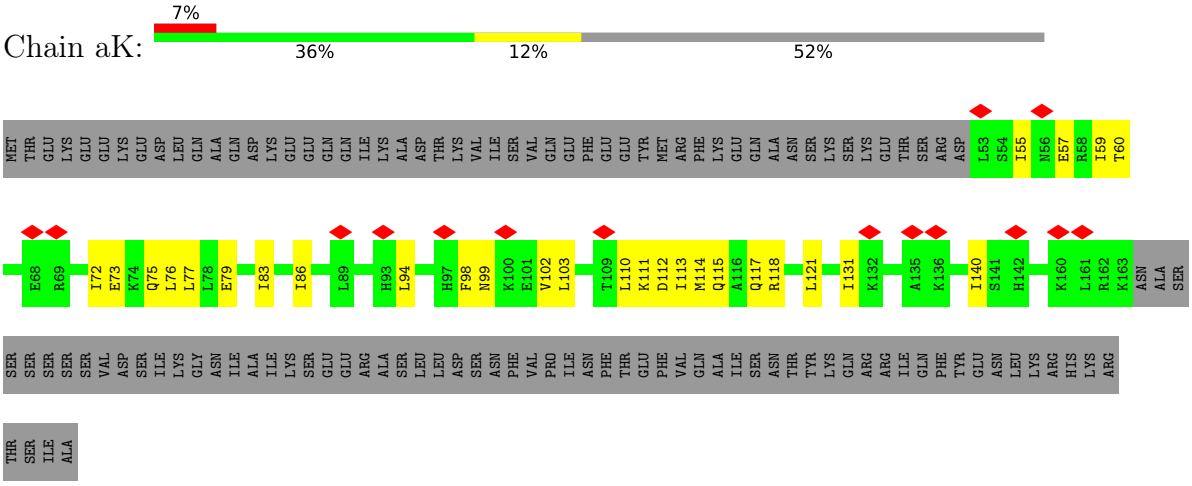
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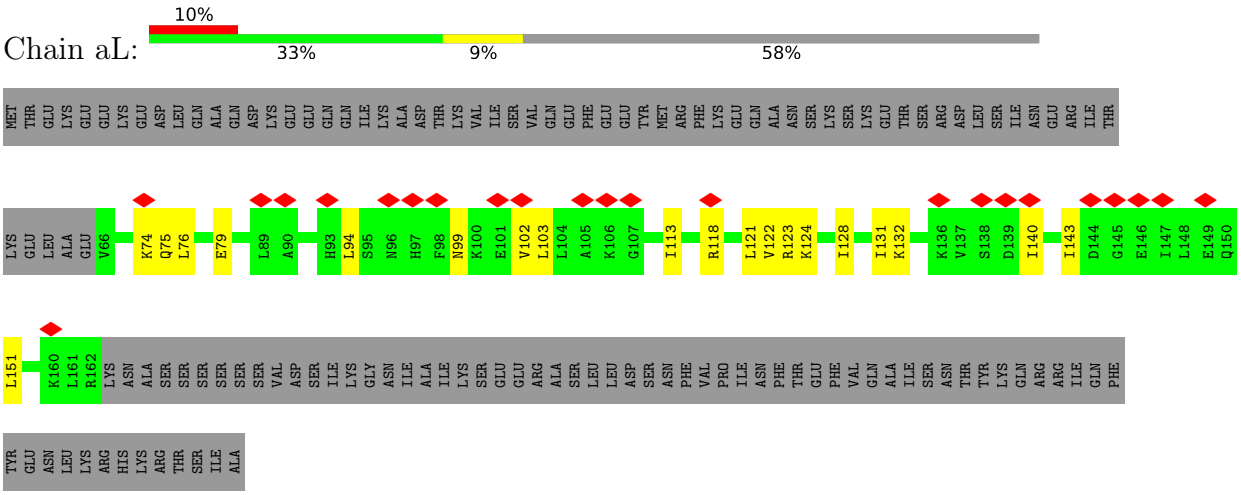




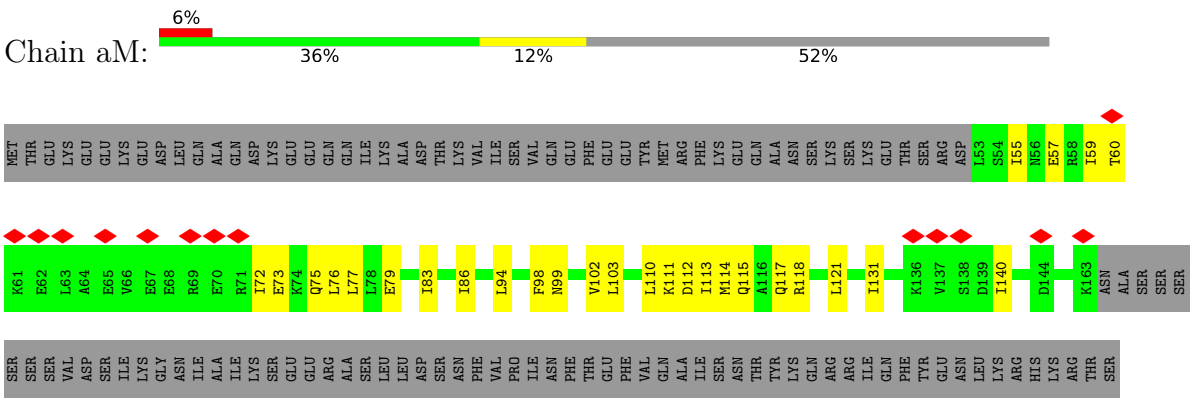
• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

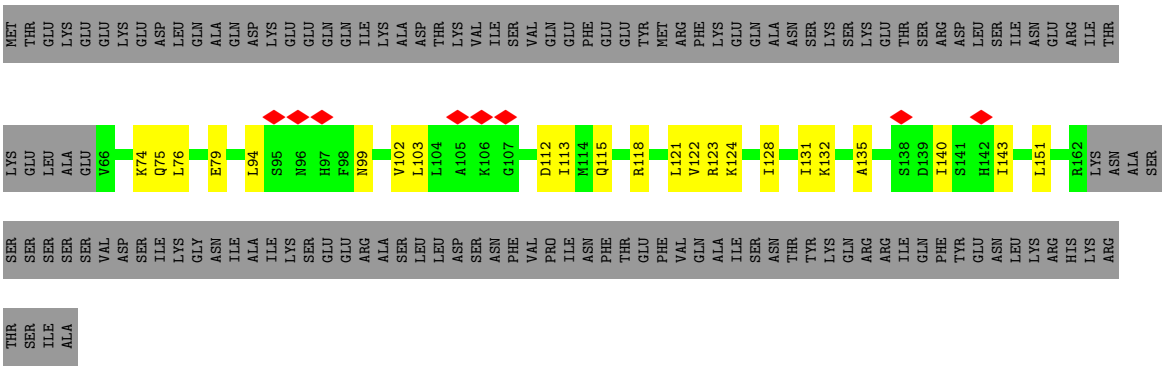




• Molecule 5: Scaffold protein

Chain aN:

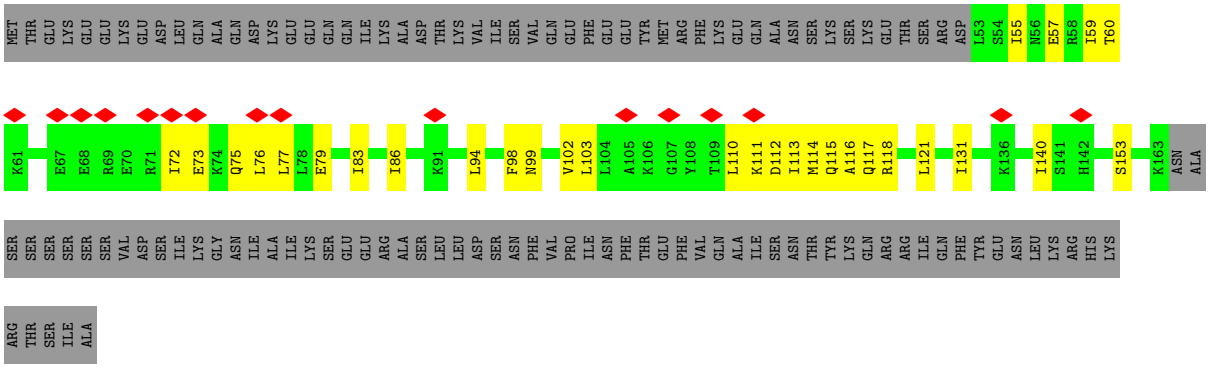




• Molecule 5: Scaffold protein

Chain aO:

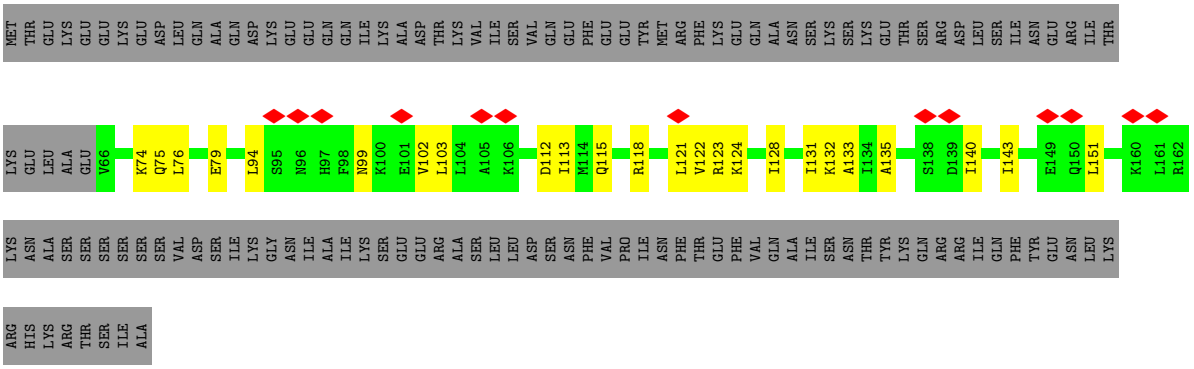




• Molecule 5: Scaffold protein

Chain aP:

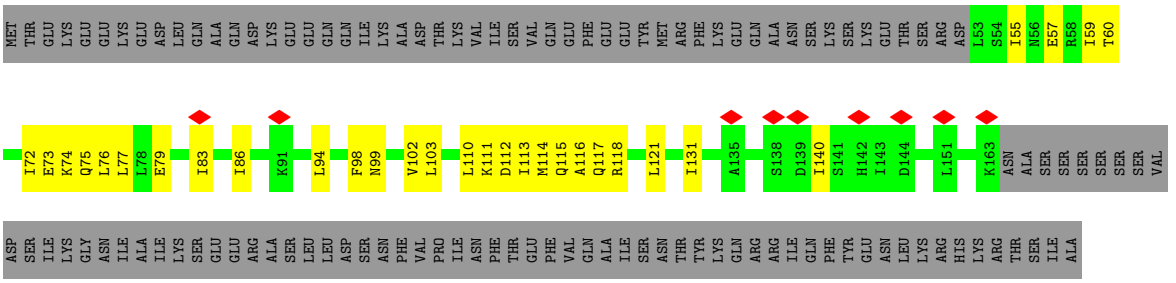




• Molecule 5: Scaffold protein

Chain aQ:

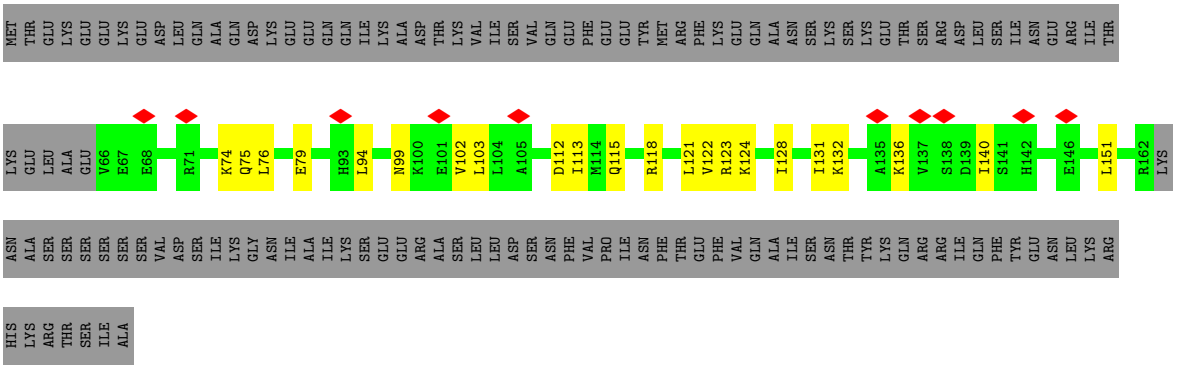




• Molecule 5: Scaffold protein

Chain aR:

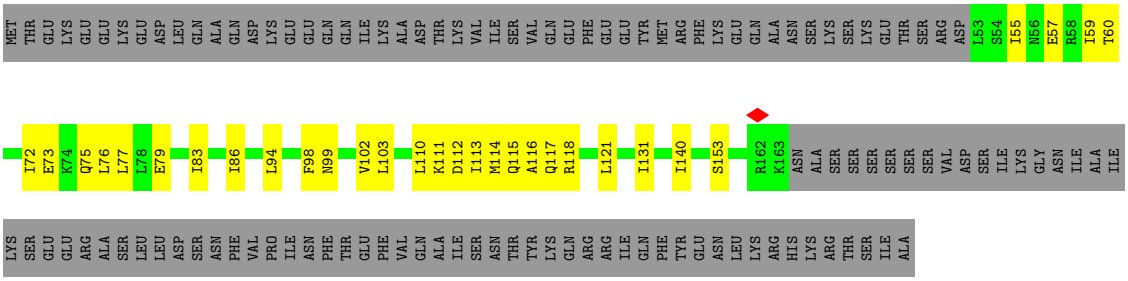




• Molecule 5: Scaffold protein

Chain aS:

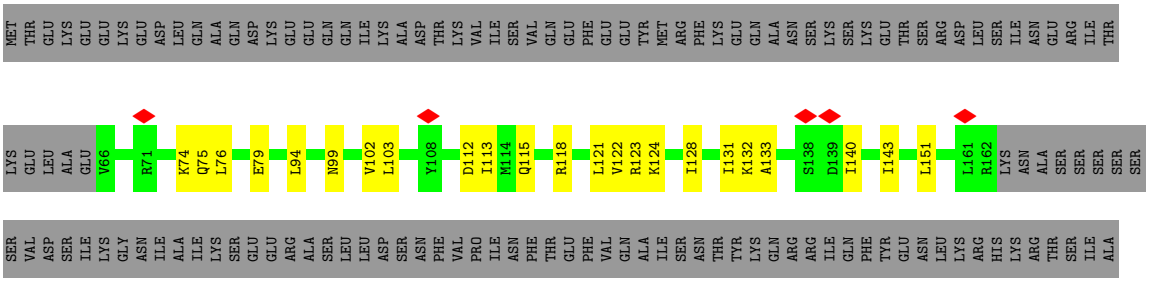




• Molecule 5: Scaffold protein

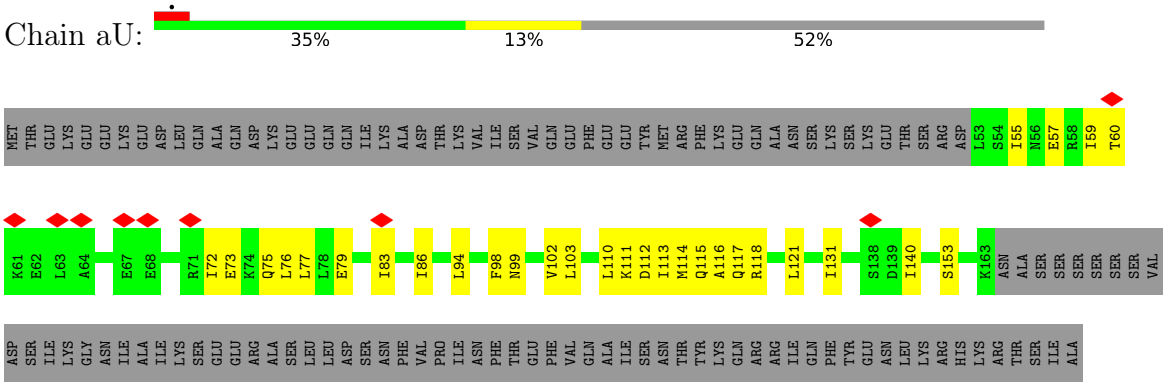
Chain aT:





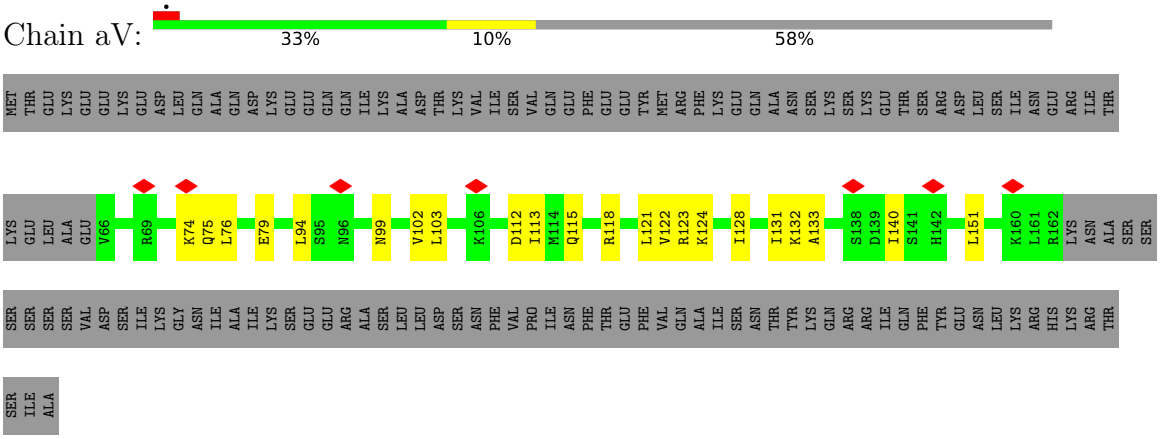
• Molecule 5: Scaffold protein

Chain aU:



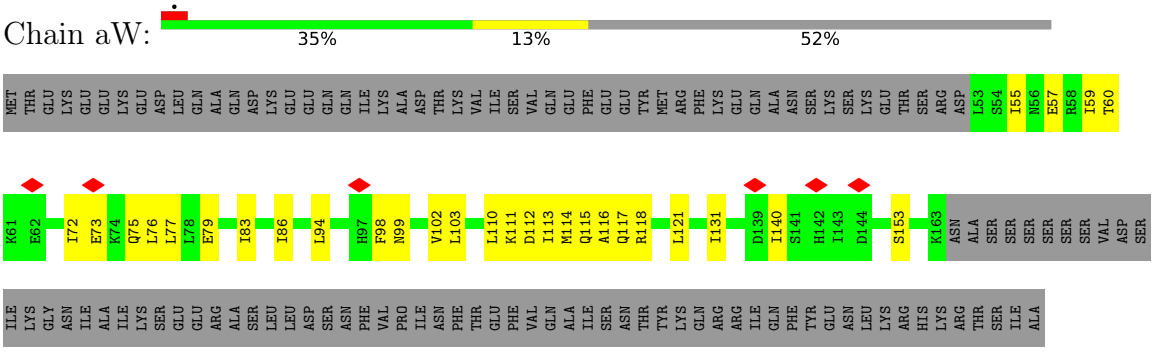
• Molecule 5: Scaffold protein

Chain aV:



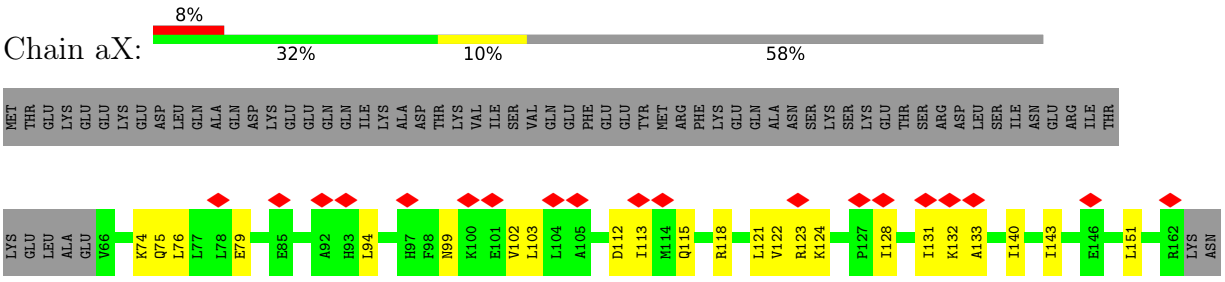
• Molecule 5: Scaffold protein

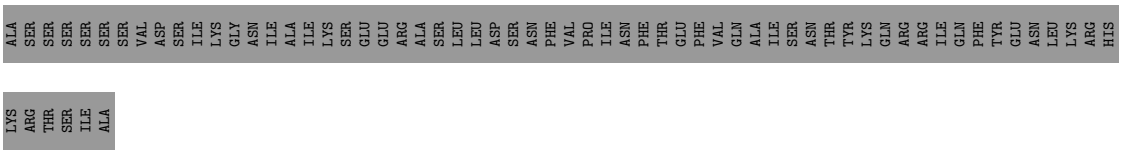
Chain aW:



• Molecule 5: Scaffold protein

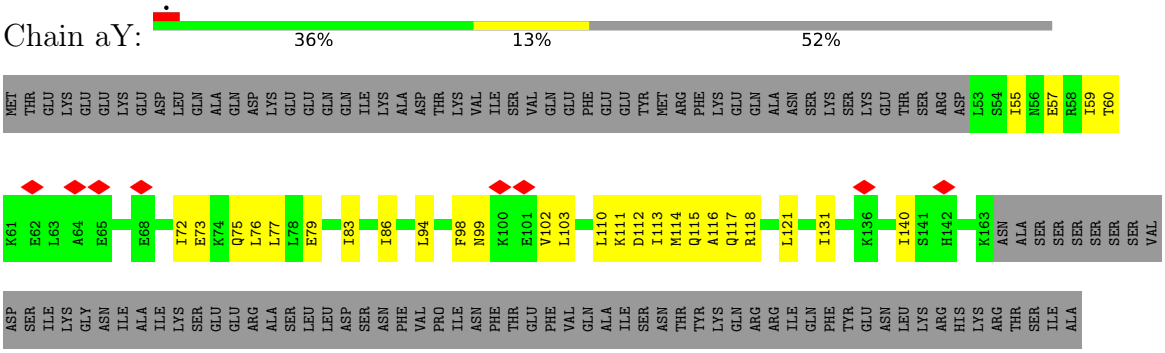
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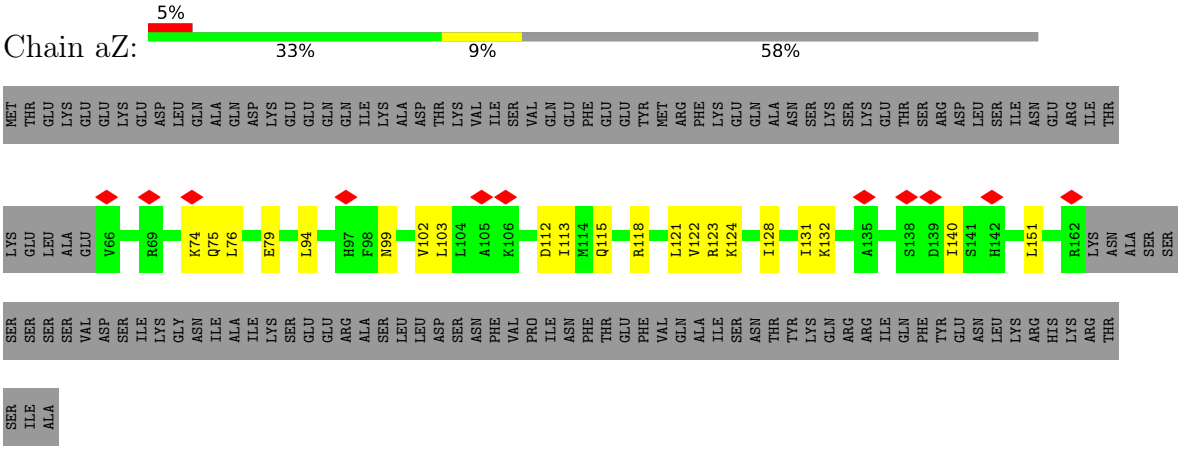
• Molecule 5: Scaffold protein

Chain aY:



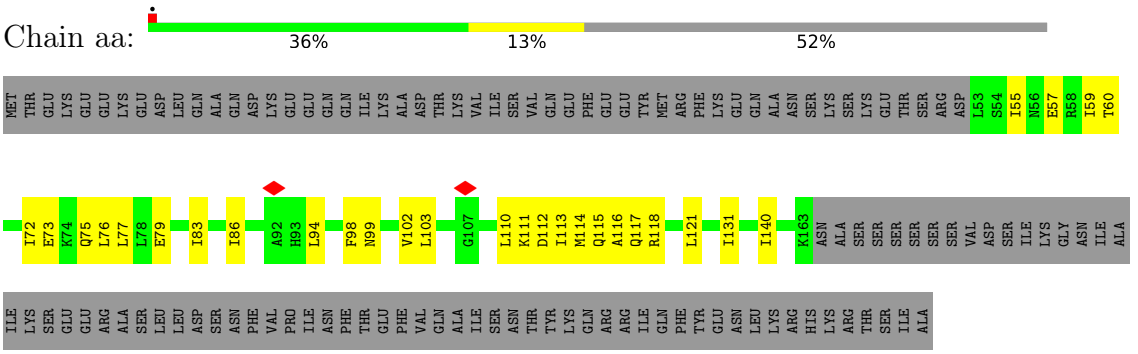
• Molecule 5: Scaffold protein

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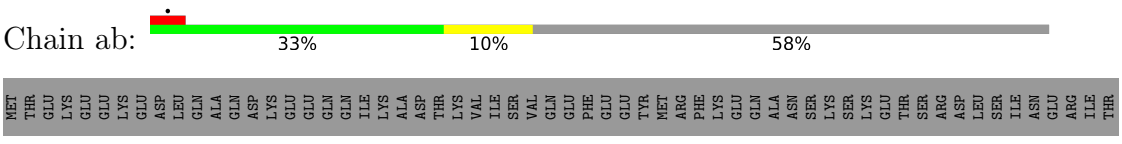
• Molecule 5: Scaffold protein

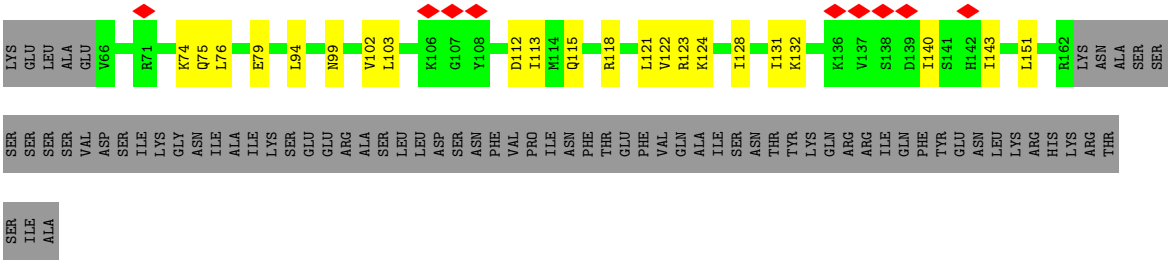
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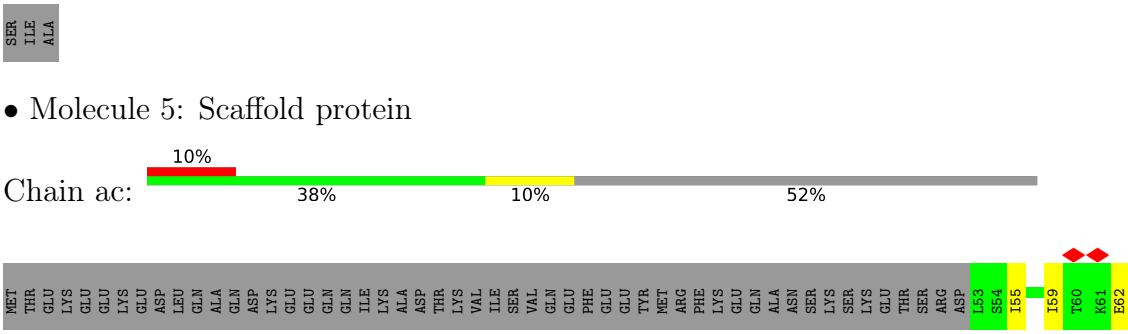


• Molecule 5: Scaffold protein

Chain ab:



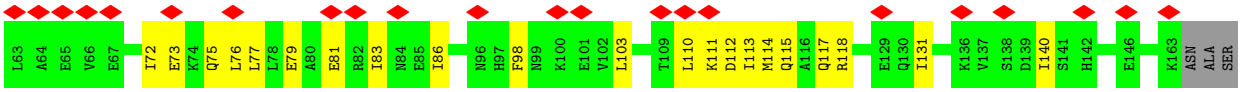






• Molecule 5: Scaffold protein

Chain ac:





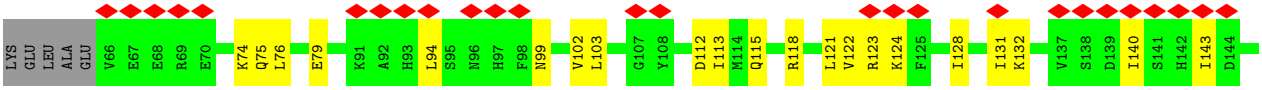


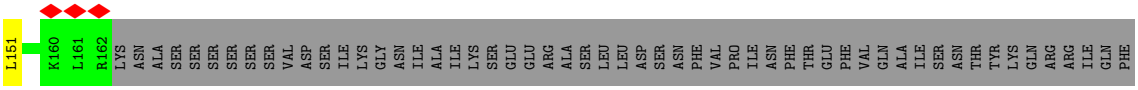
• Molecule 5: Scaffold protein

Chain ad:







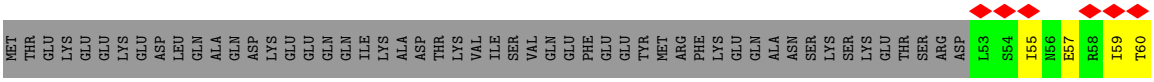


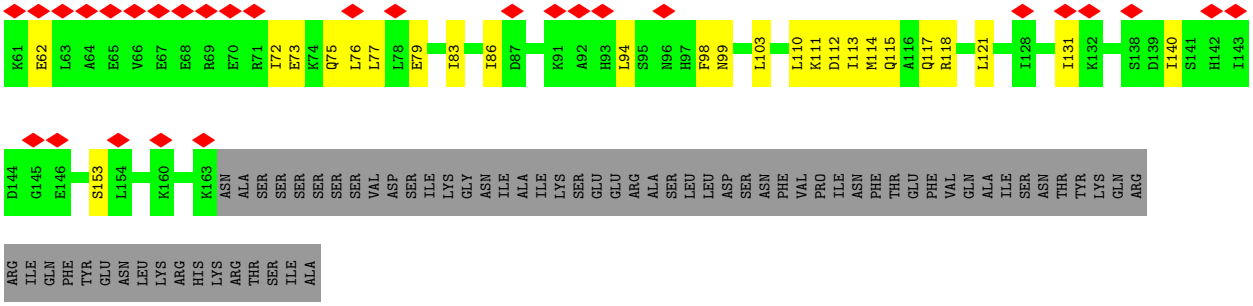


• Molecule 5: Scaffold protein

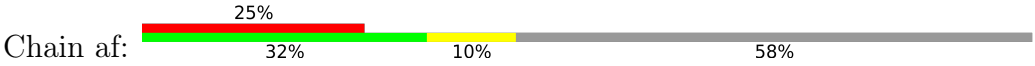
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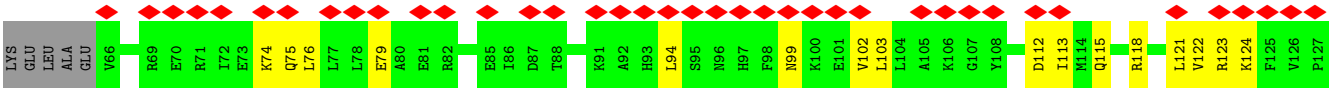


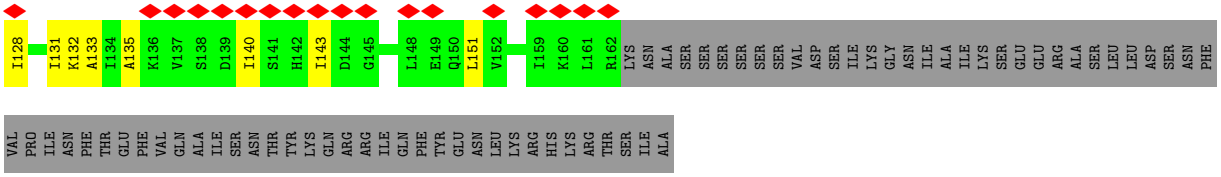


• Molecule 5: Scaffold protein

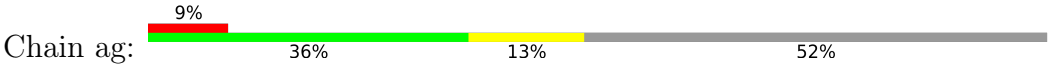


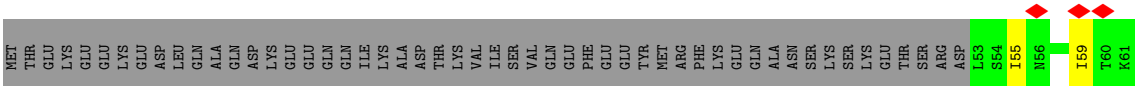


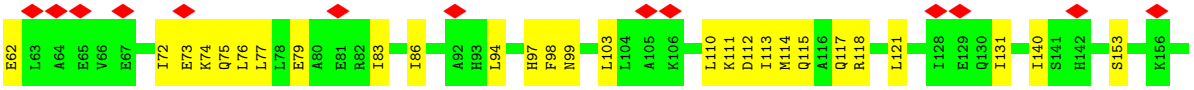


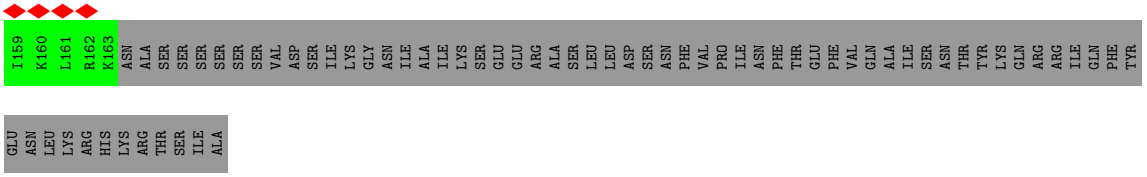


• Molecule 5: Scaffold protein

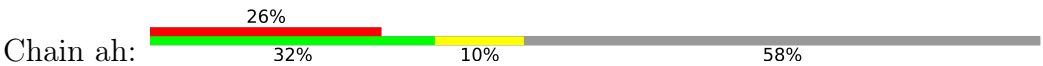




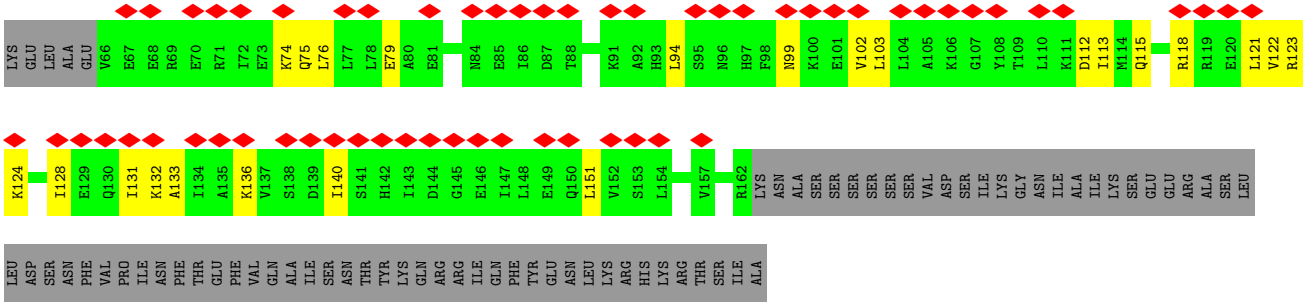




• Molecule 5: Scaffold protein



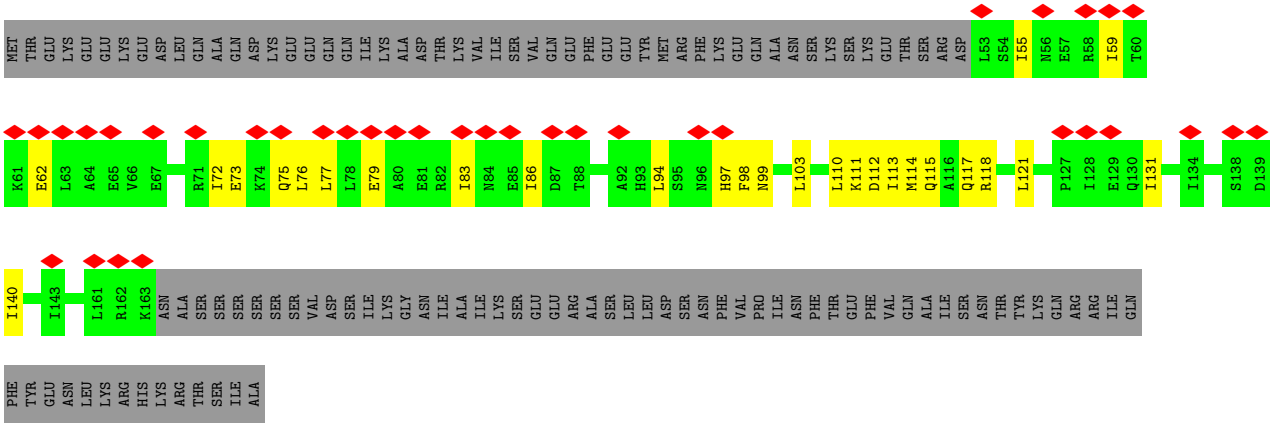




• Molecule 5: Scaffold protein

Chain ai:

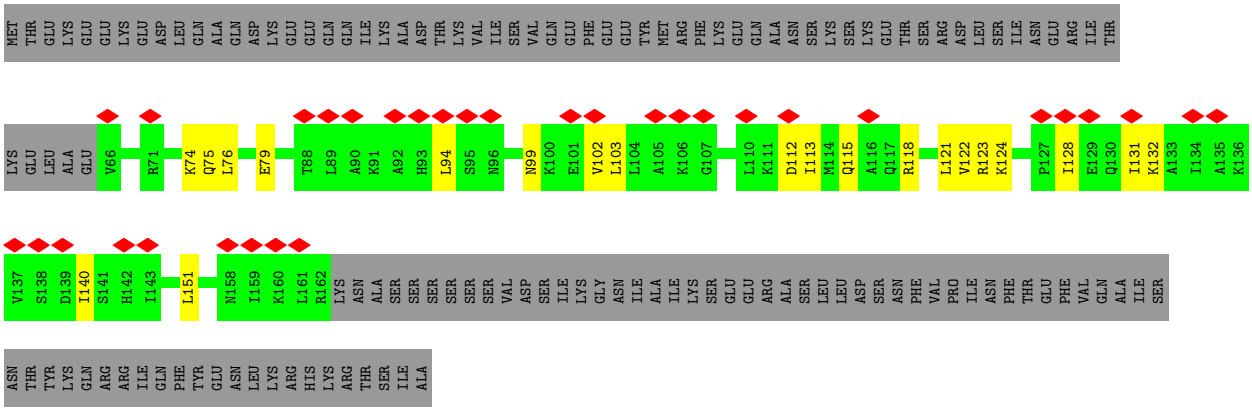




• Molecule 5: Scaffold protein

Chain aj:

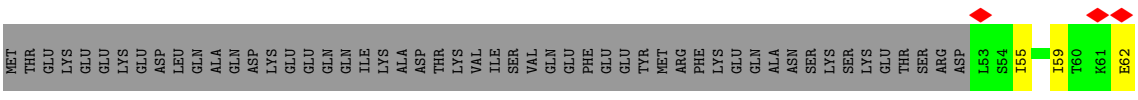


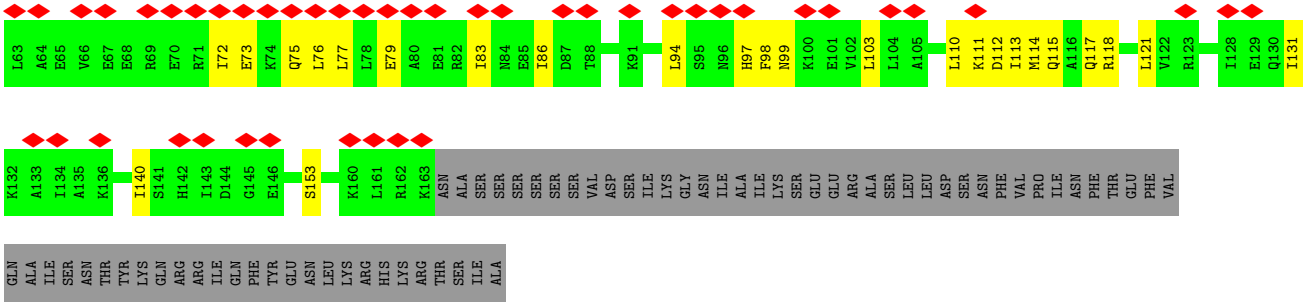


• Molecule 5: Scaffold protein

Chain ak:





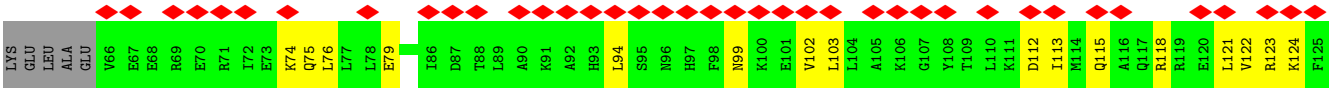


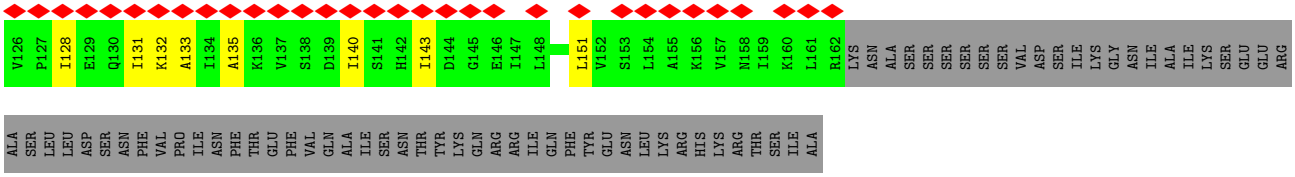
• Molecule 5: Scaffold protein

Chain al:





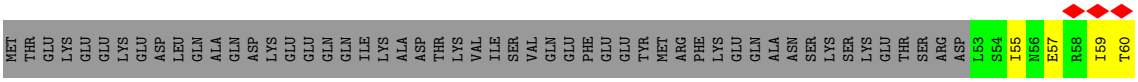


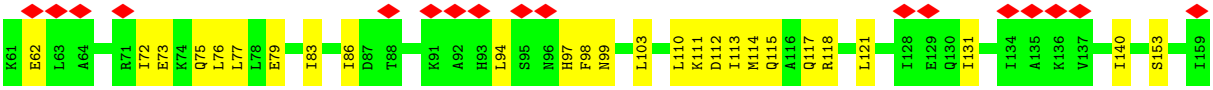


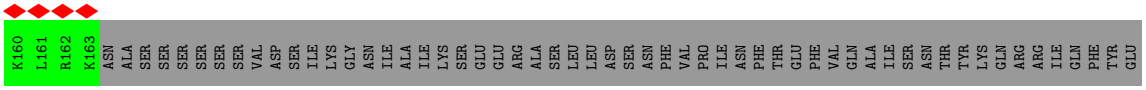
• Molecule 5: Scaffold protein

Chain am:





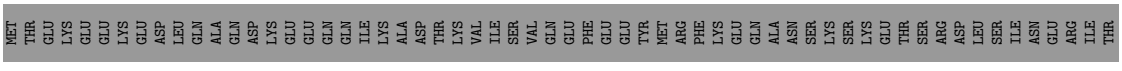


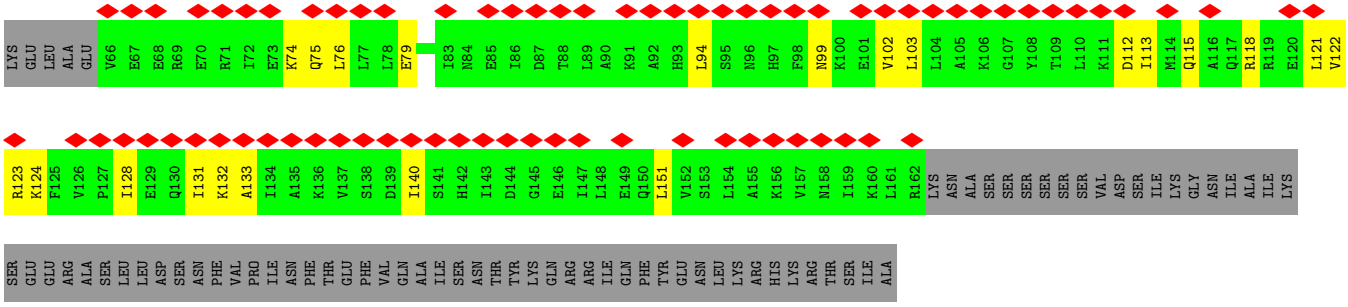


• Molecule 5: Scaffold protein

Chain an:





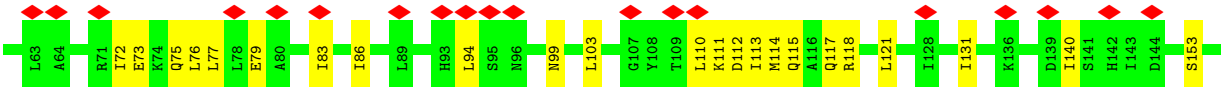


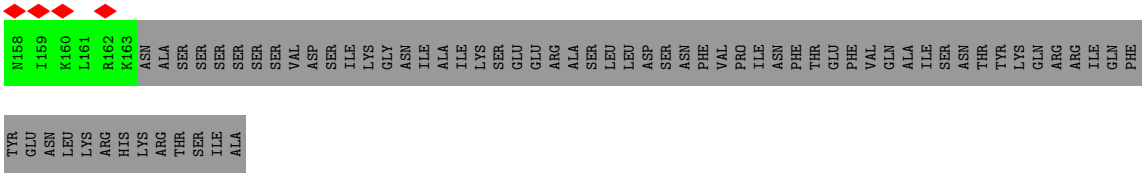
• Molecule 5: Scaffold protein

Chain ao:







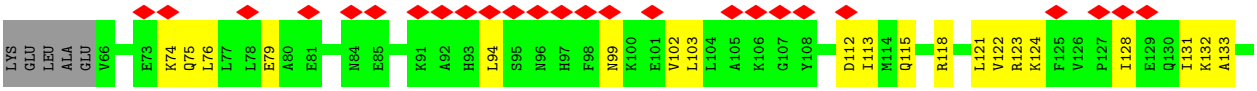


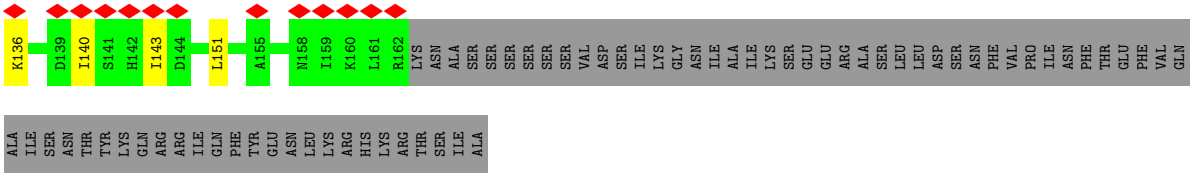
• Molecule 5: Scaffold protein

Chain ap:





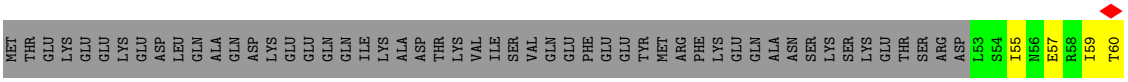


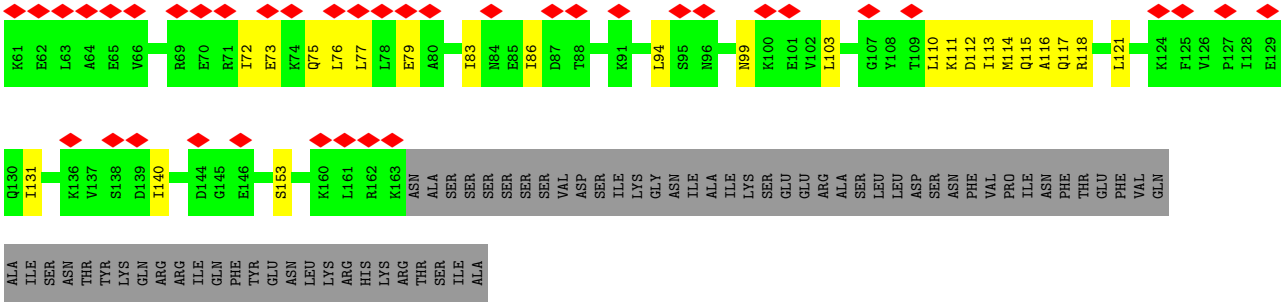


• Molecule 5: Scaffold protein

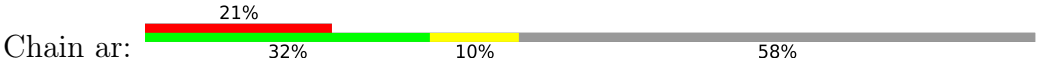
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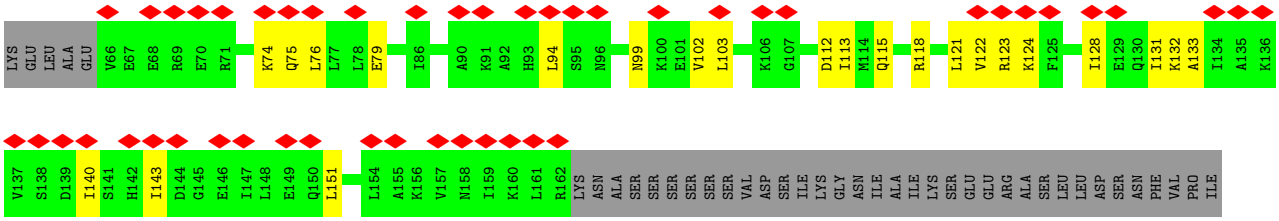




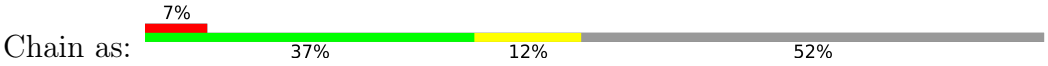
• Molecule 5: Scaffold protein

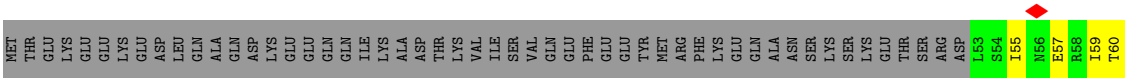


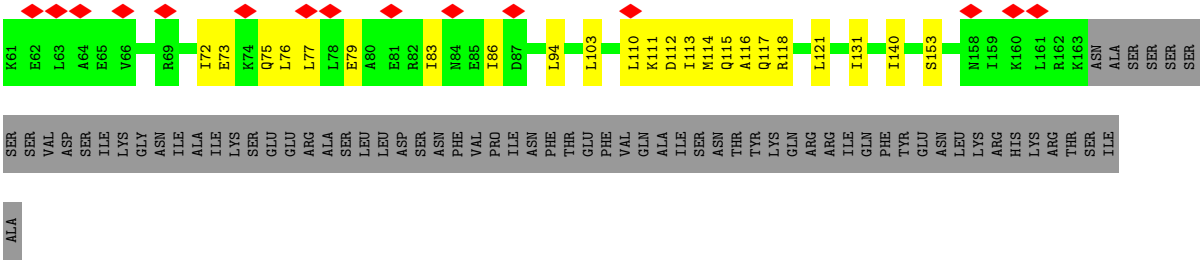




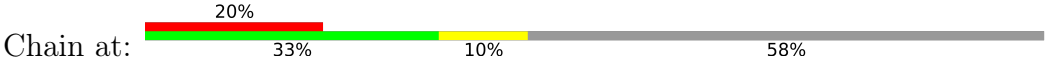
• Molecule 5: Scaffold protein



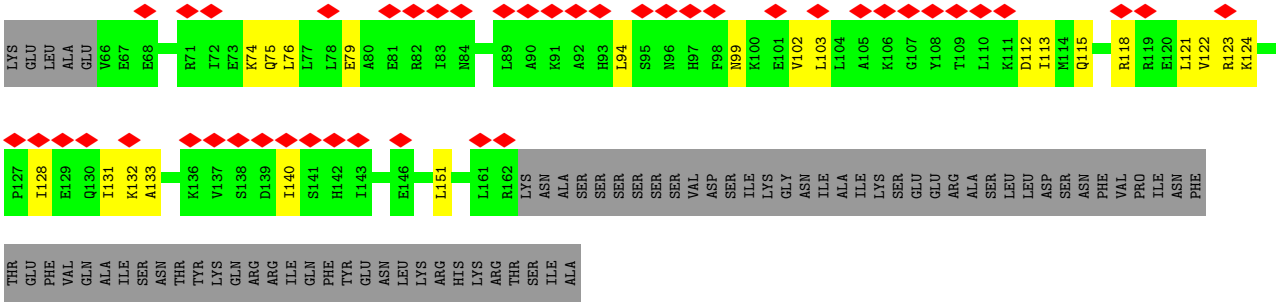




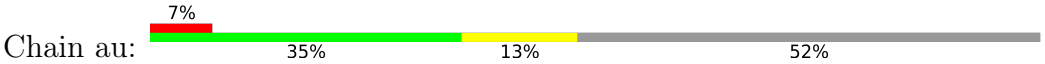
• Molecule 5: Scaffold protein

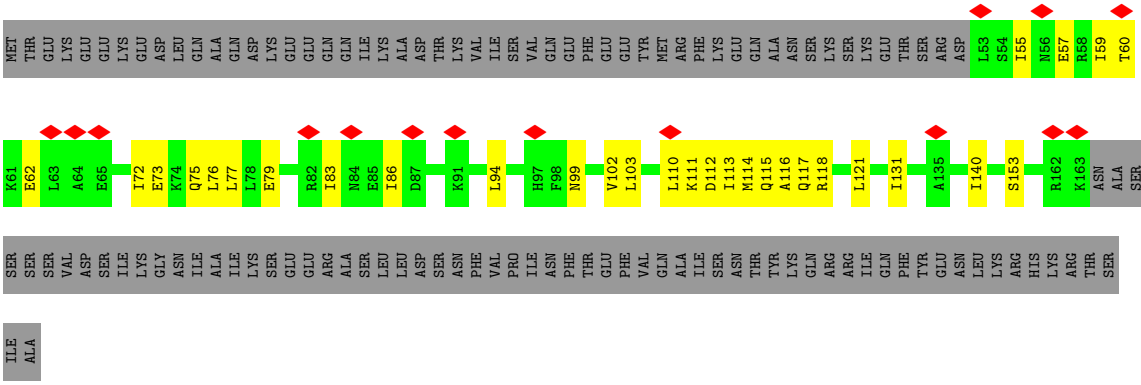




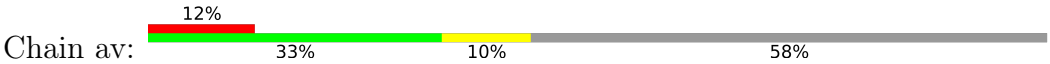


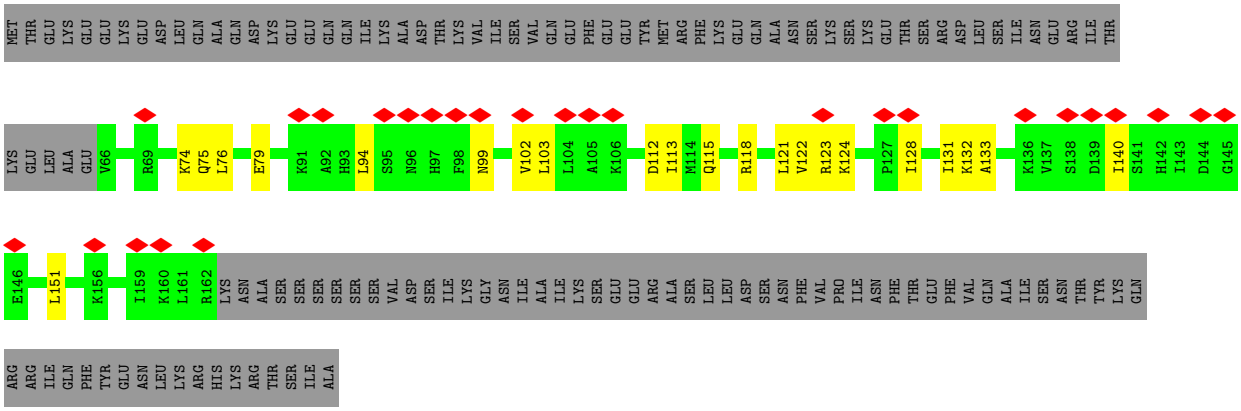
• Molecule 5: Scaffold protein



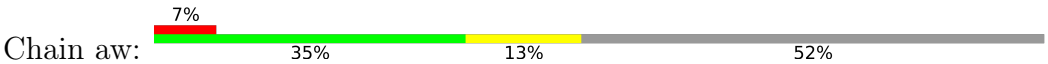


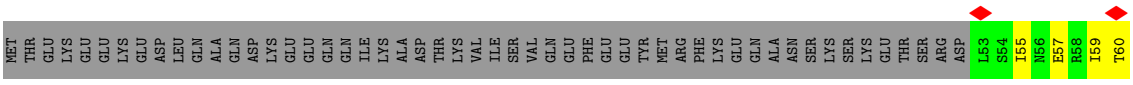
• Molecule 5: Scaffold protein

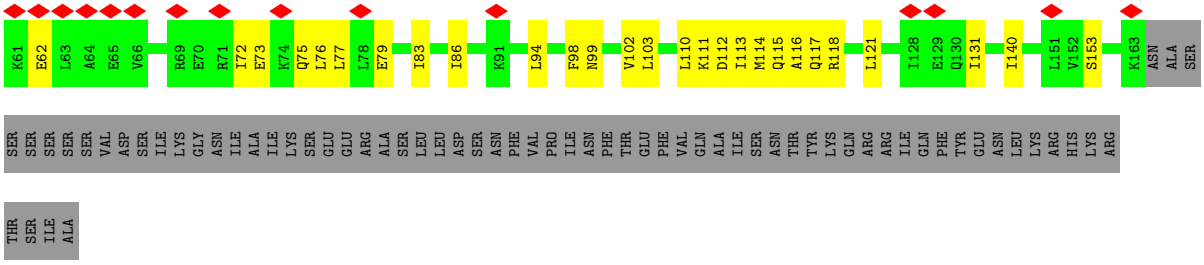




• Molecule 5: Scaffold protein





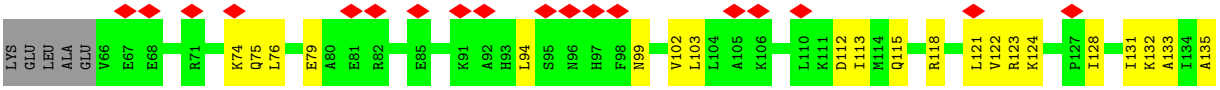


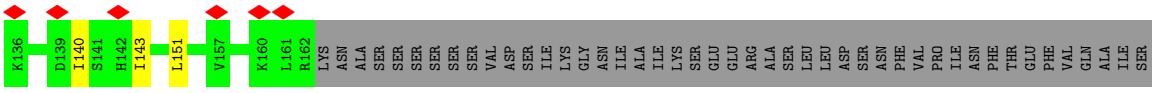
• Molecule 5: Scaffold protein

Chain ax:







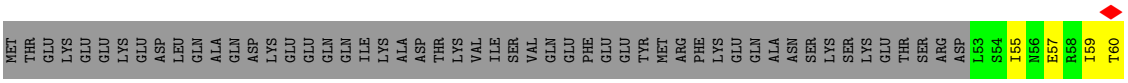


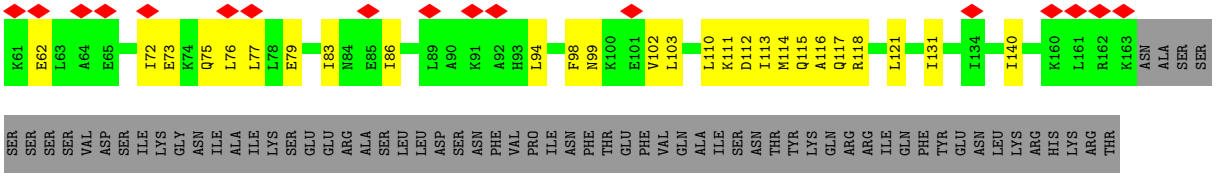


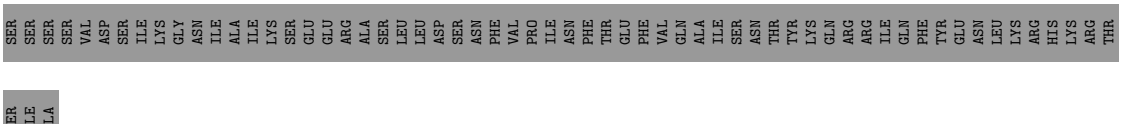
• Molecule 5: Scaffold protein

Chain ay:









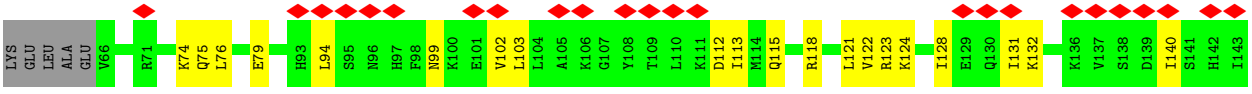


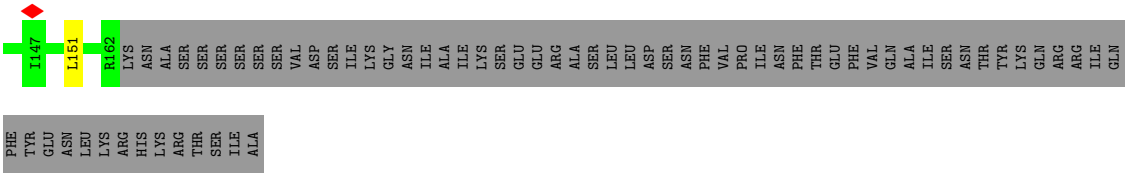
• Molecule 5: Scaffold protein

Chain az:



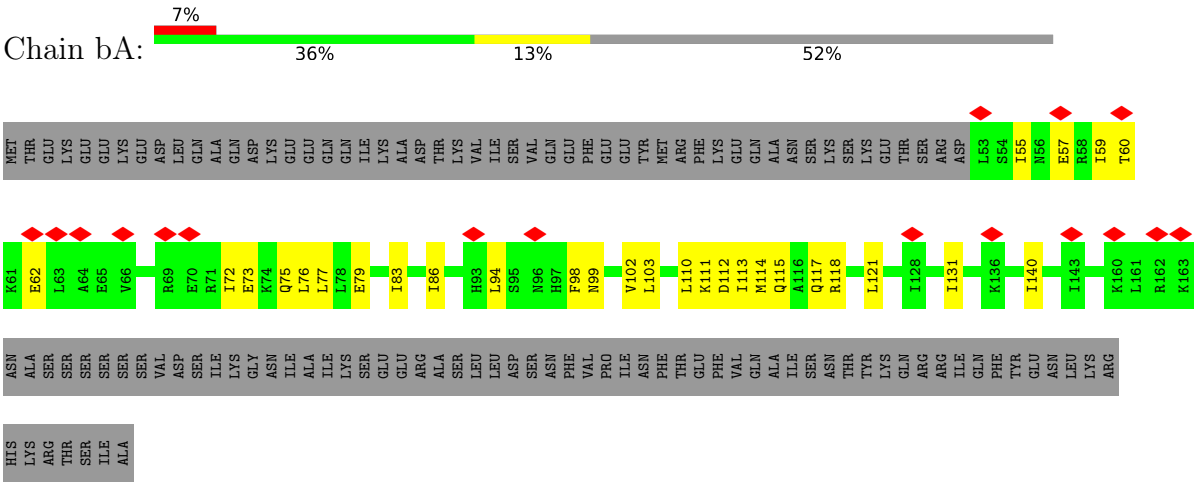






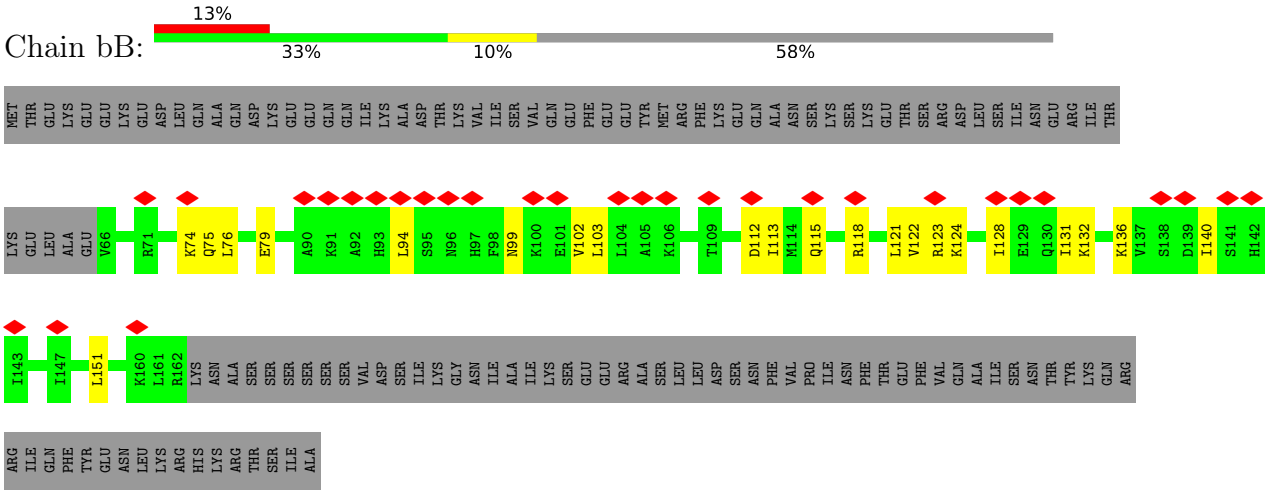
• Molecule 5: Scaffold protein

Chain bA:



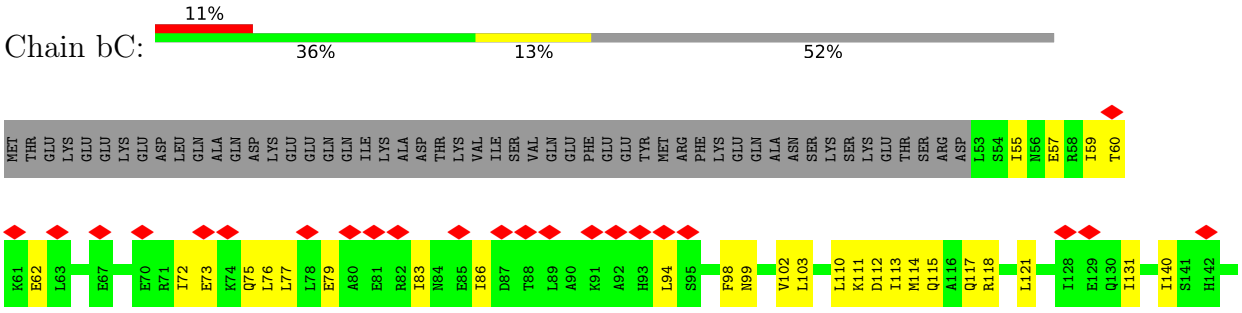
• Molecule 5: Scaffold protein

Chain bB:



• Molecule 5: Scaffold protein

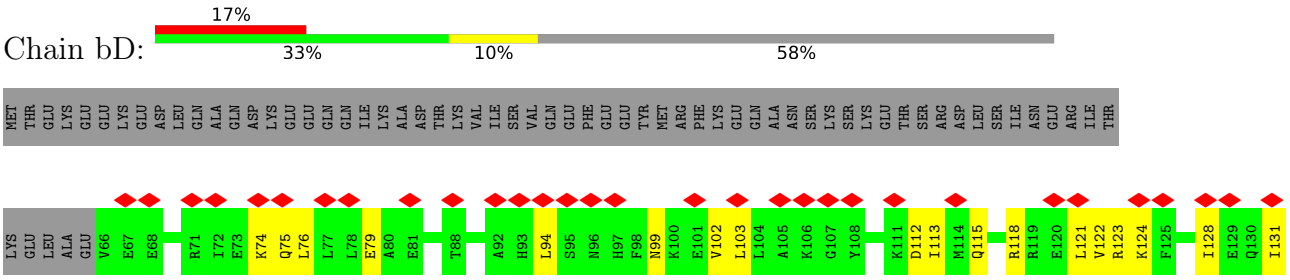
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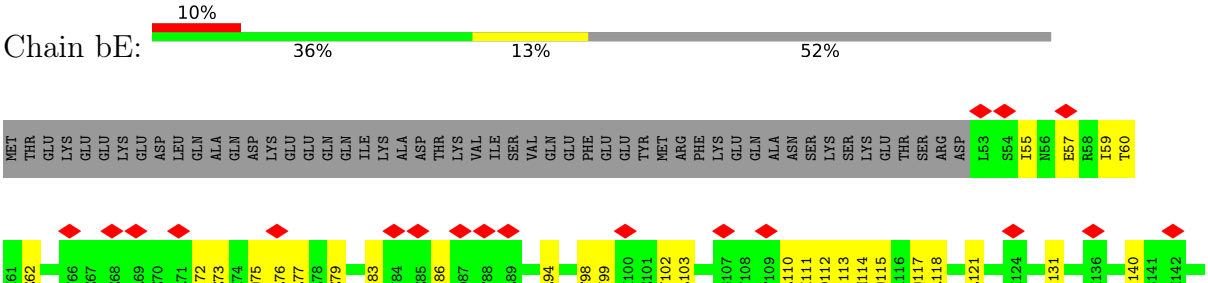
• Molecule 5: Scaffold protein

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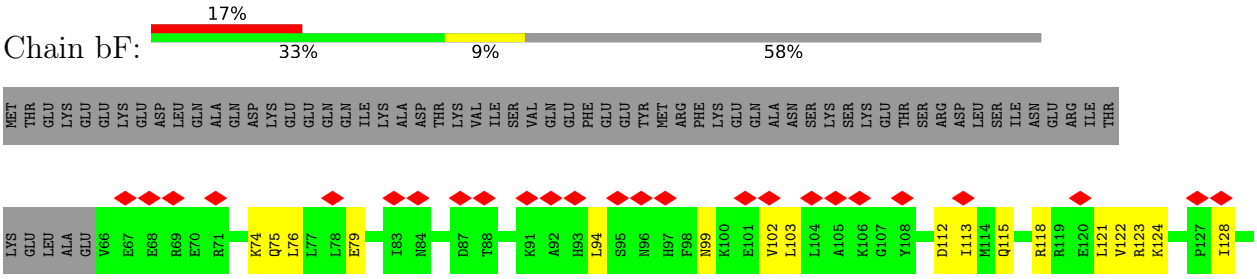
• Molecule 5: Scaffold protein

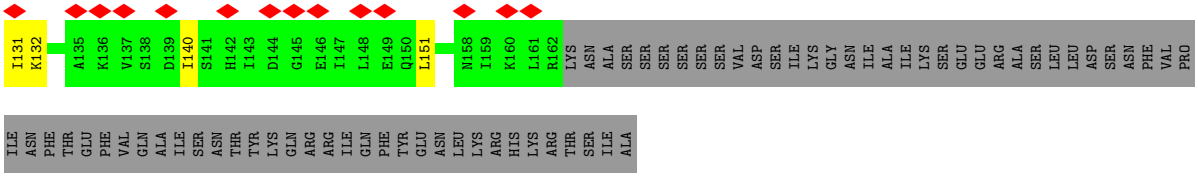
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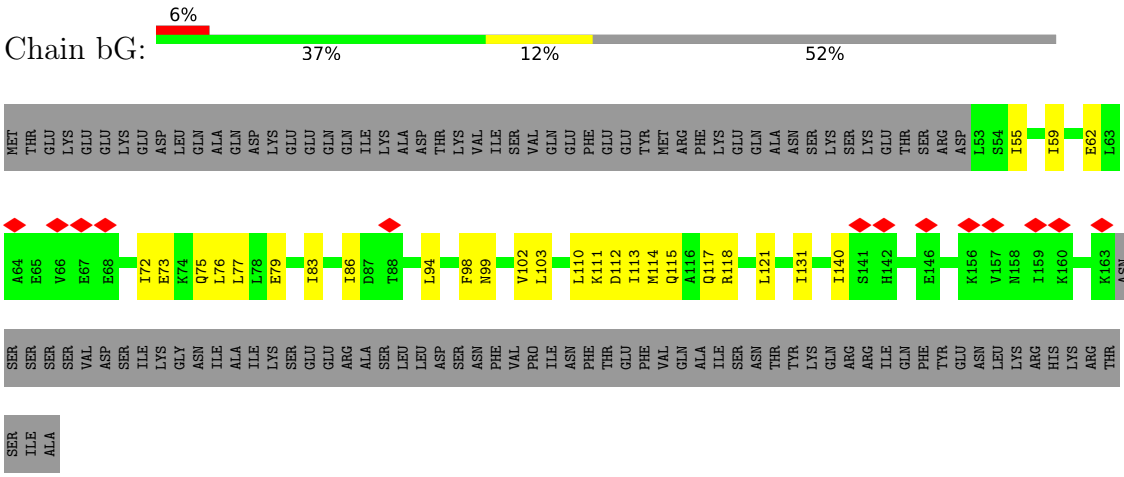
• Molecule 5: Scaffold protein

Chain bF:

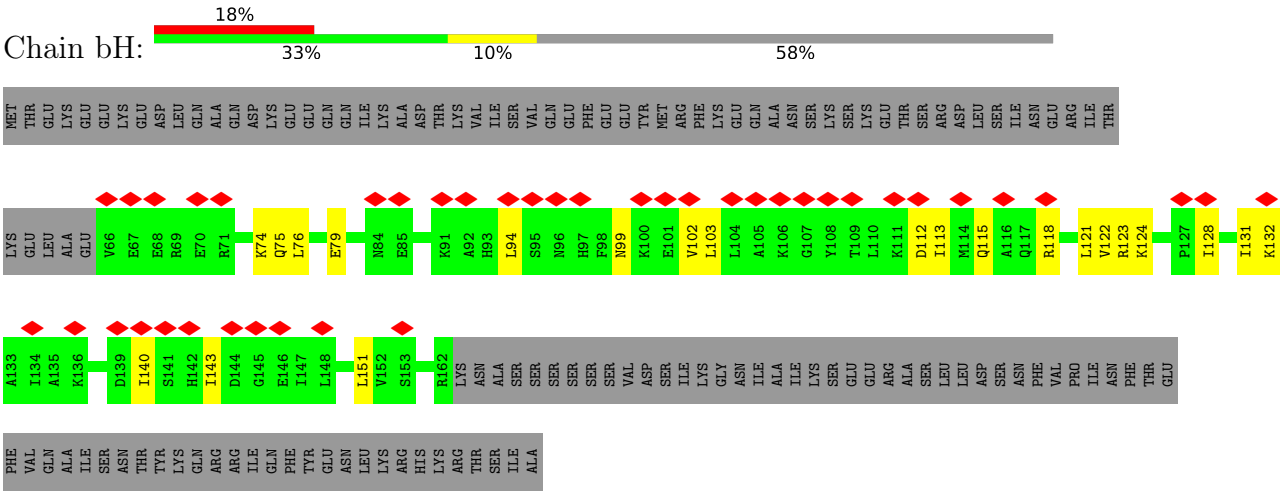




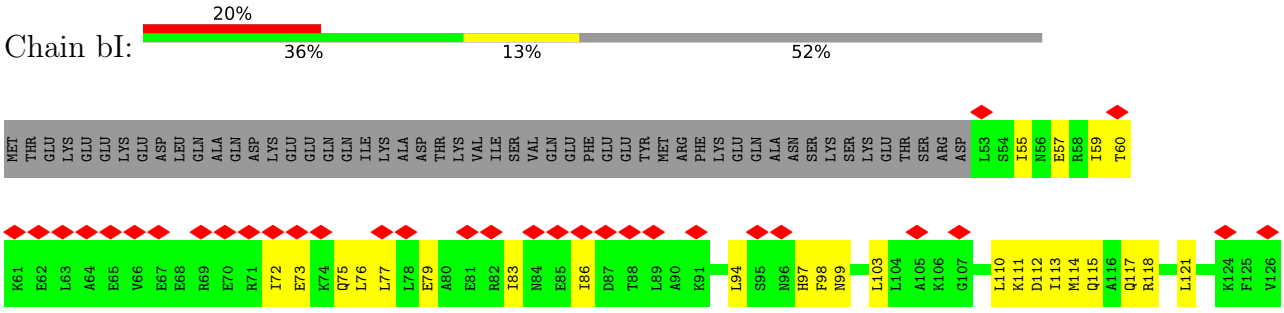
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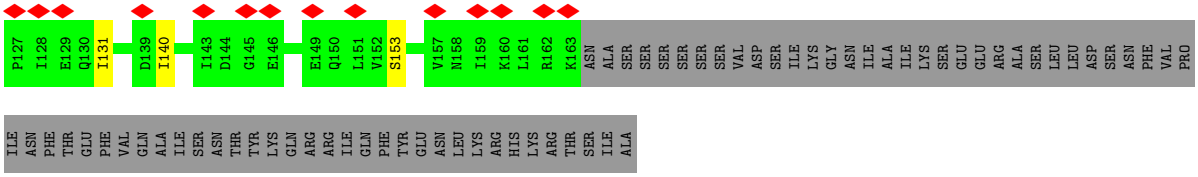


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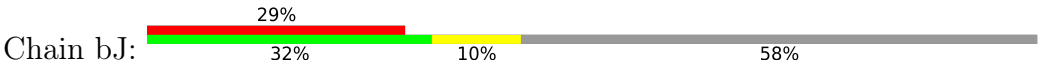


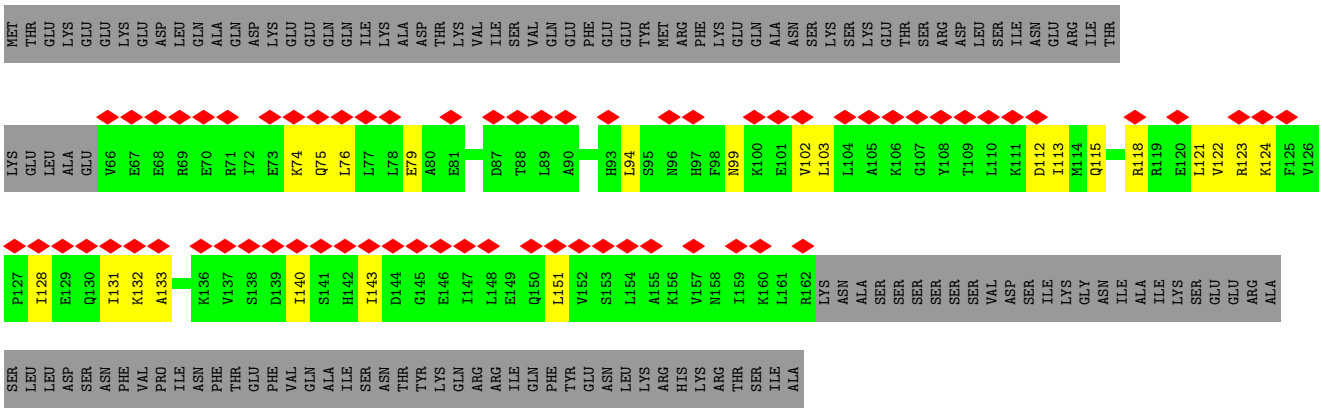
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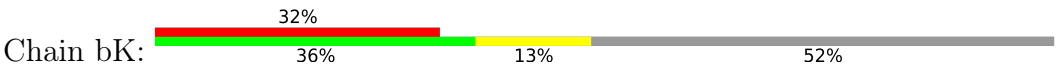


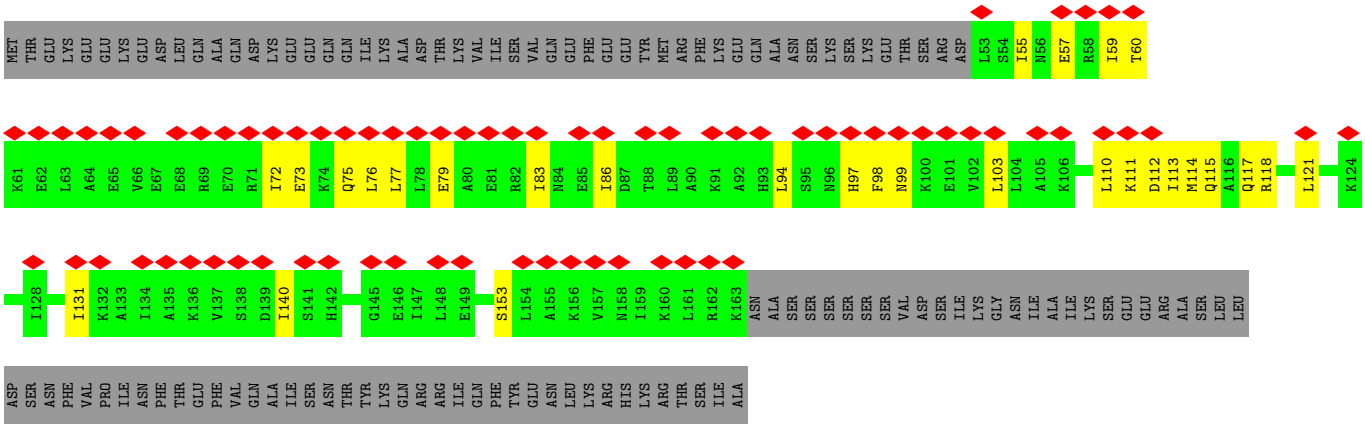
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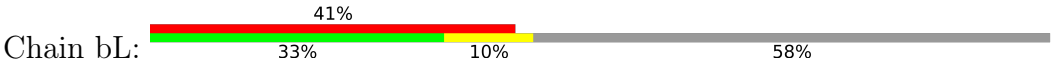


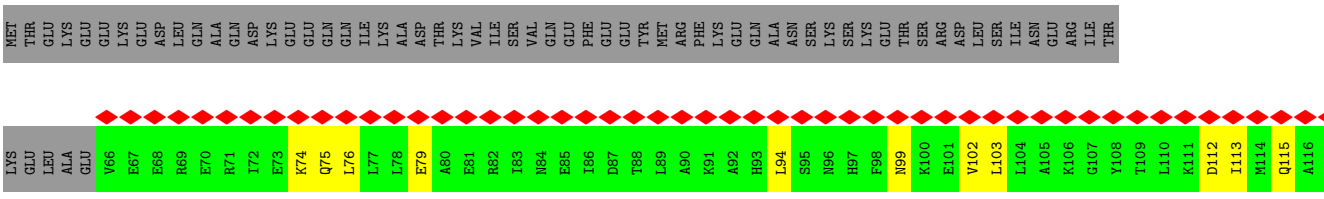
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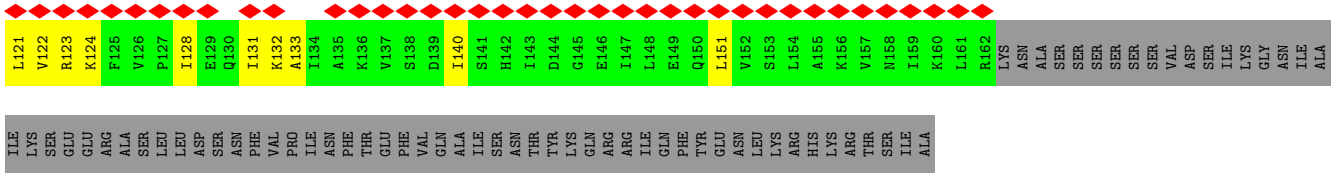




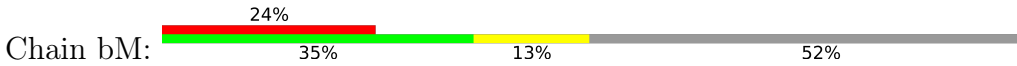
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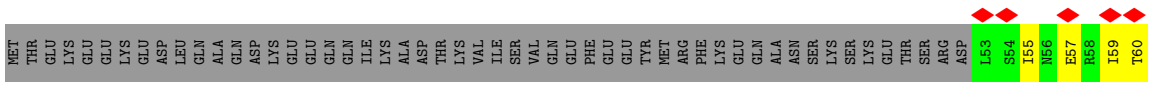


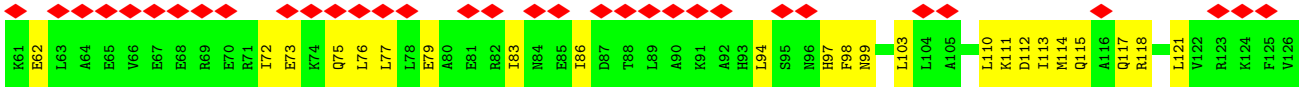


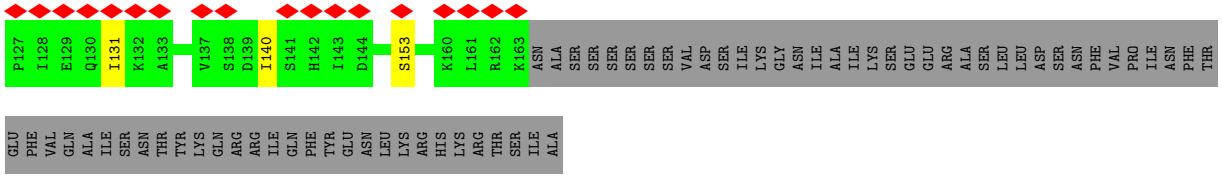


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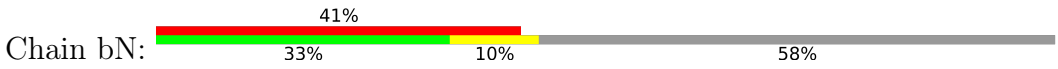




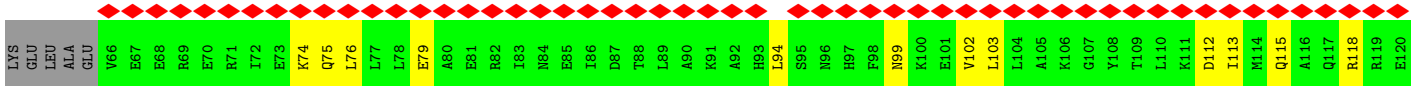


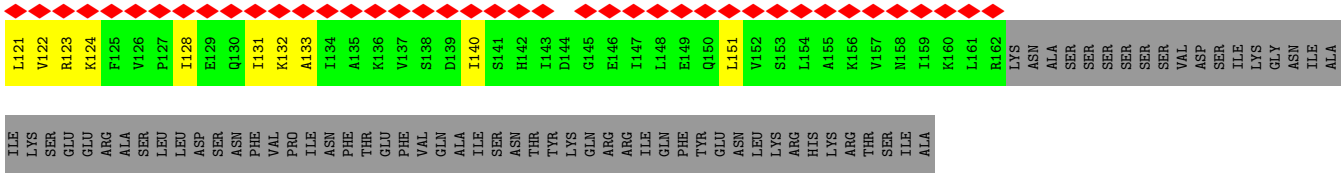


• Molecule 5: Scaffold protein

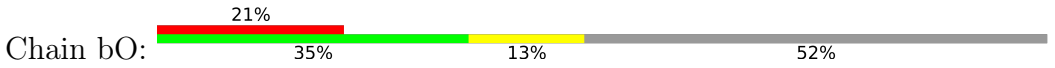


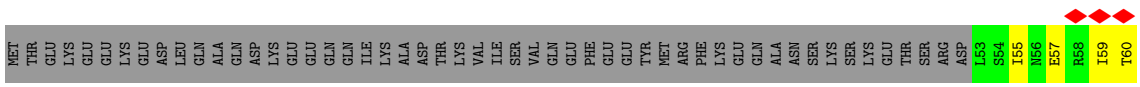


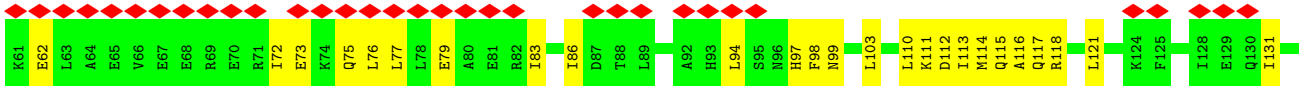


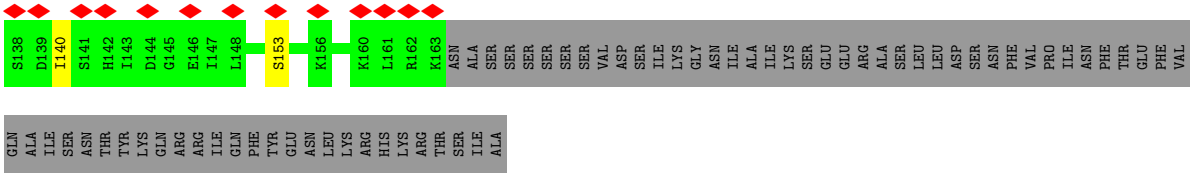


• Molecule 5: Scaffold protein

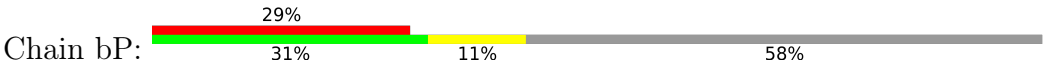




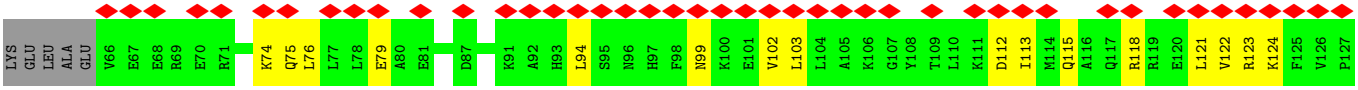


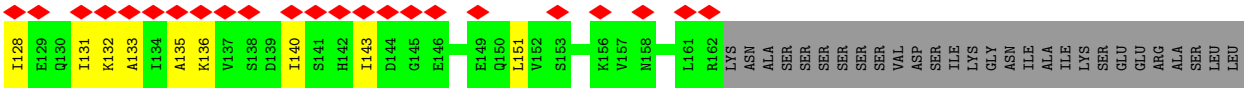


• Molecule 5: Scaffold protein



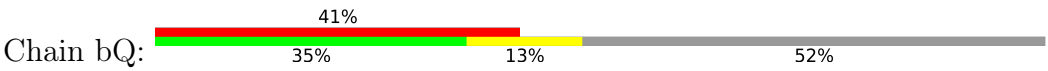


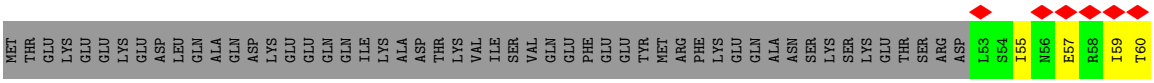


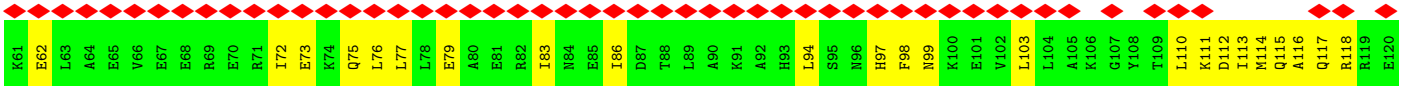


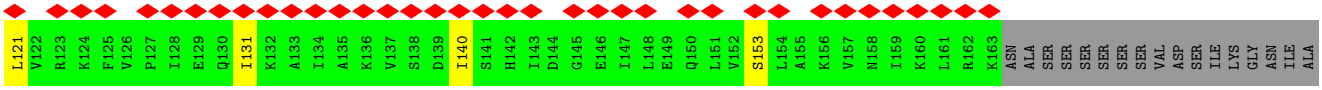


• Molecule 5: Scaffold protein

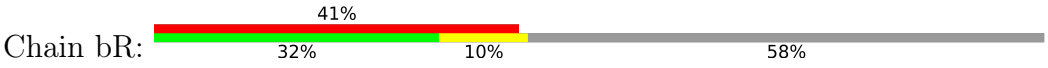




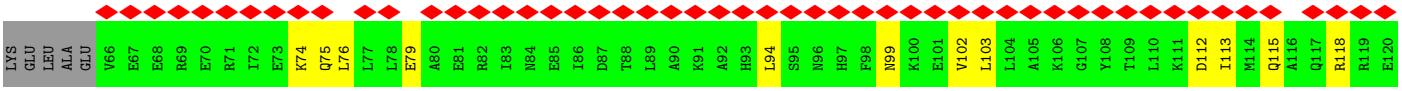


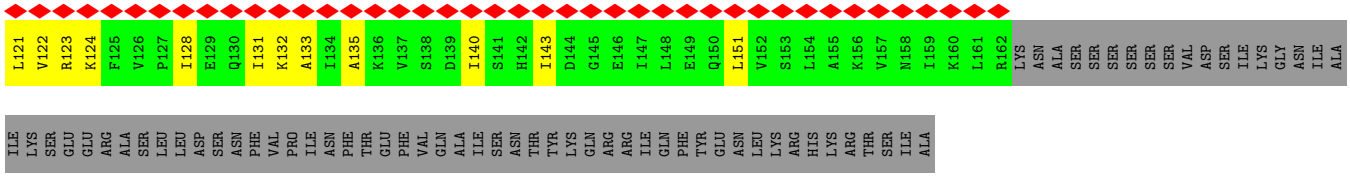


• Molecule 5: Scaffold protein





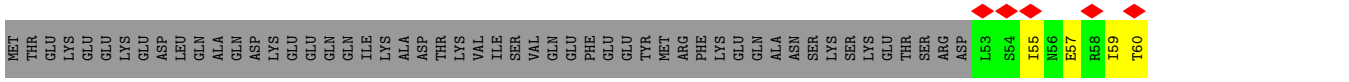


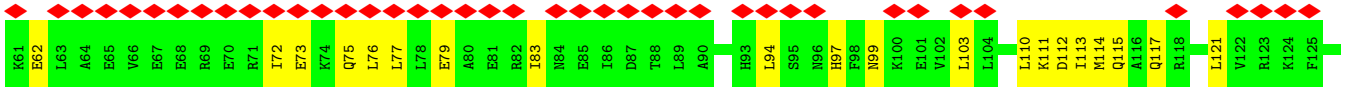


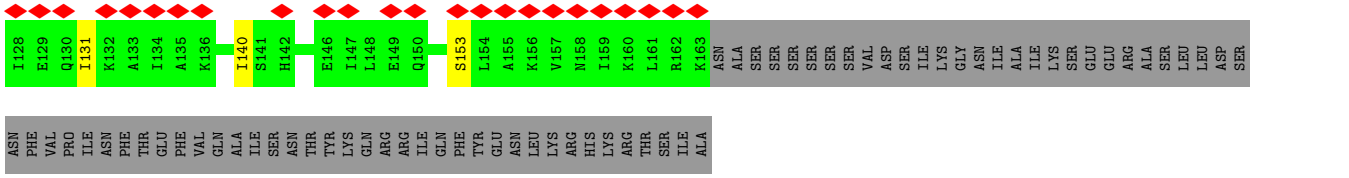
• Molecule 5: Scaffold protein

Chain bS:







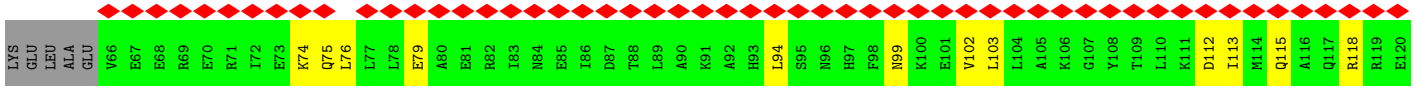


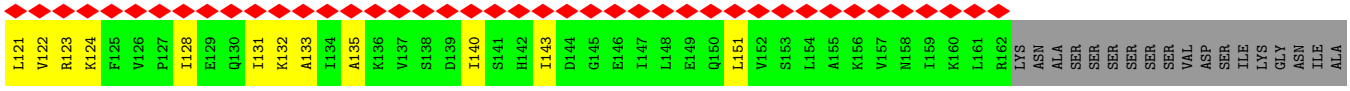
• Molecule 5: Scaffold protein

Chain bT:





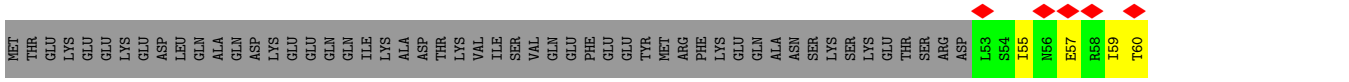


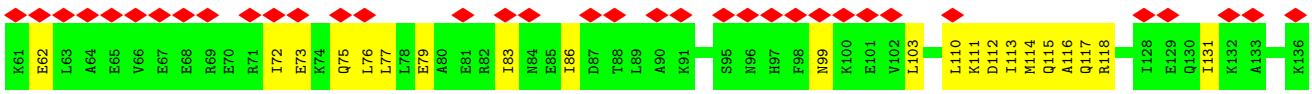


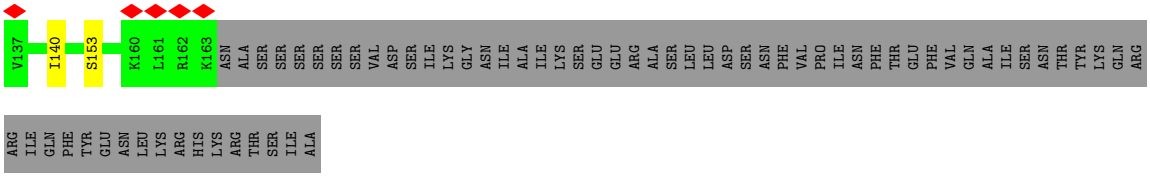
• Molecule 5: Scaffold protein

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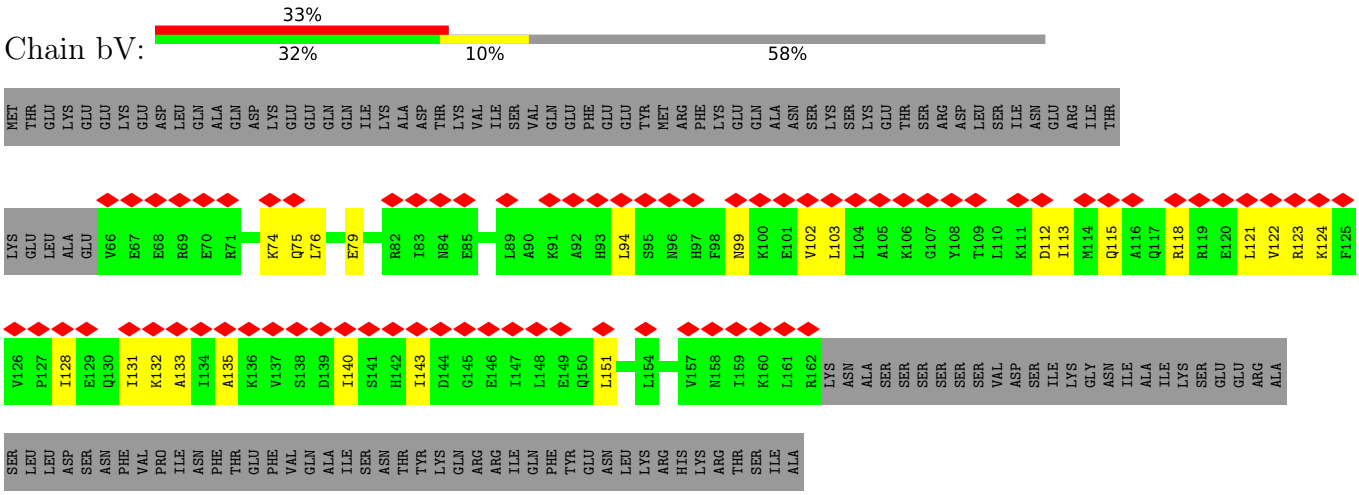




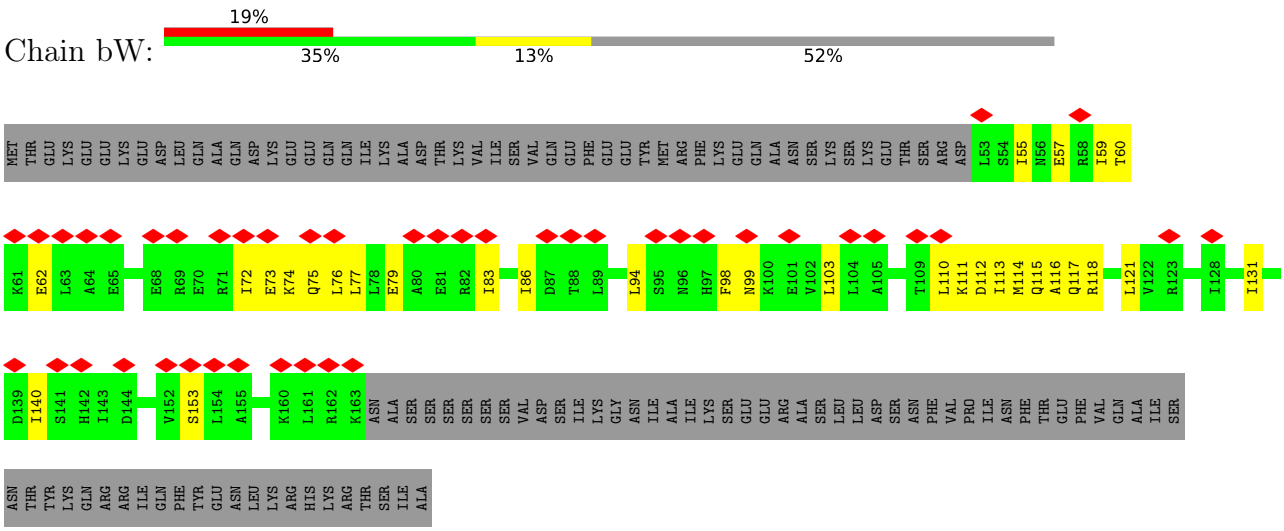




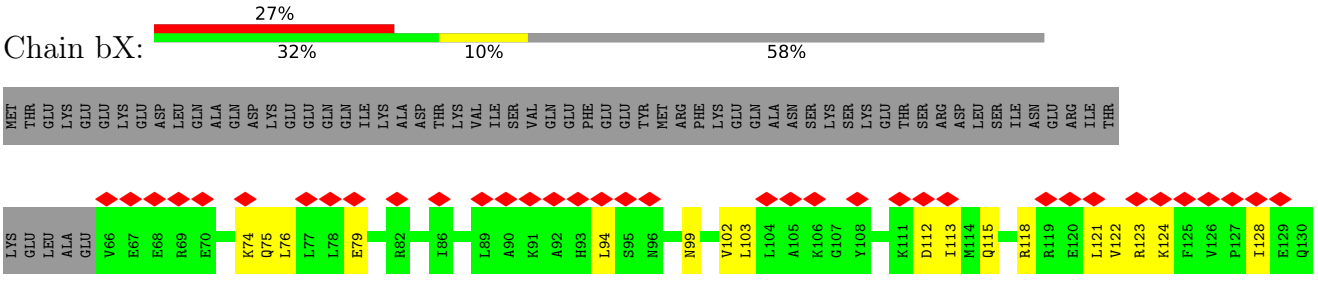
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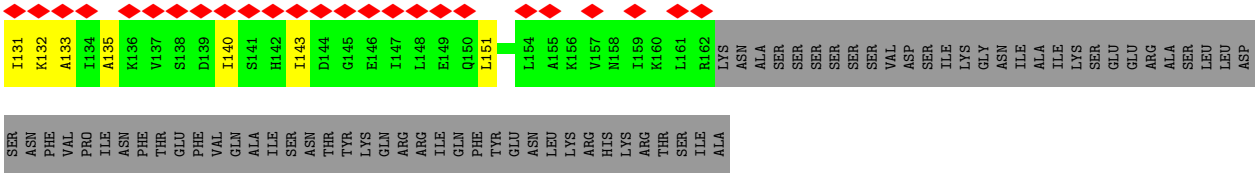


• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

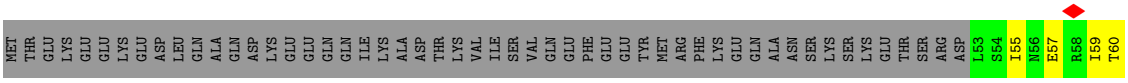


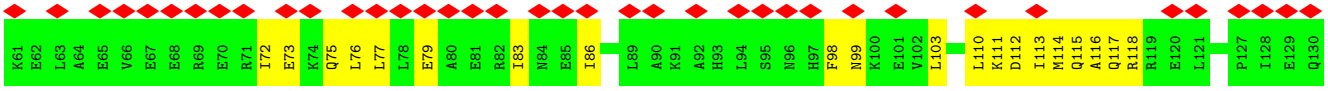


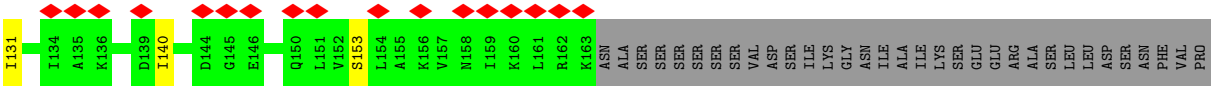
• Molecule 5: Scaffold protein

Chain bY:









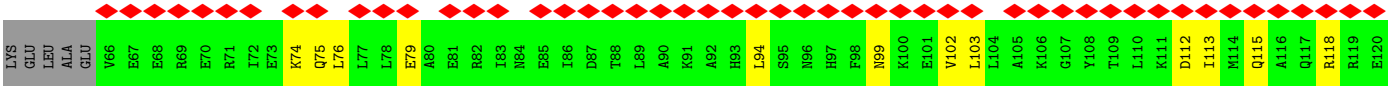


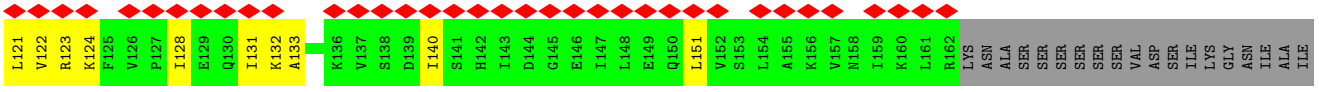
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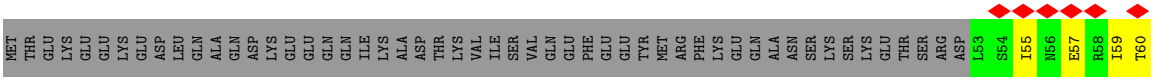


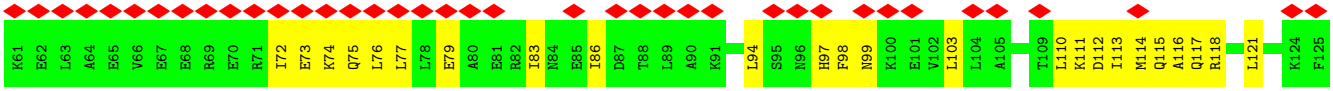


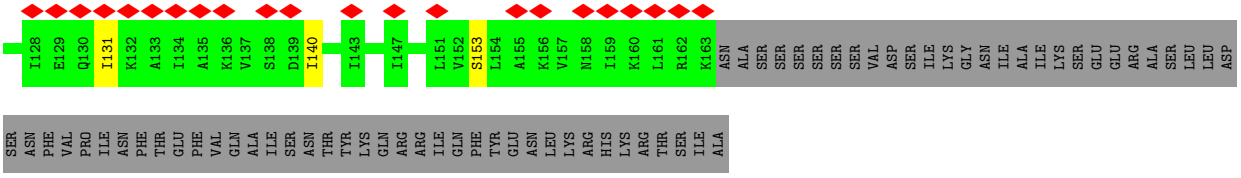
• Molecule 5: Scaffold protein

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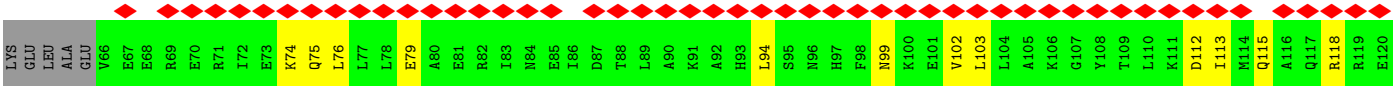


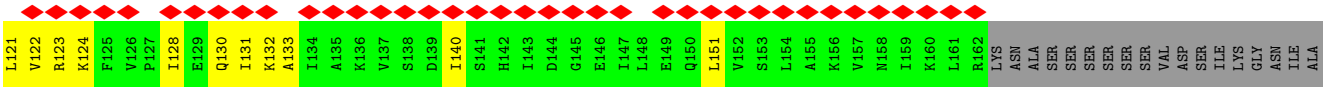
• Molecule 5: Scaffold protein

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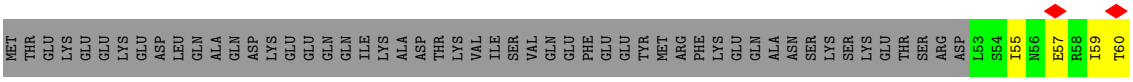


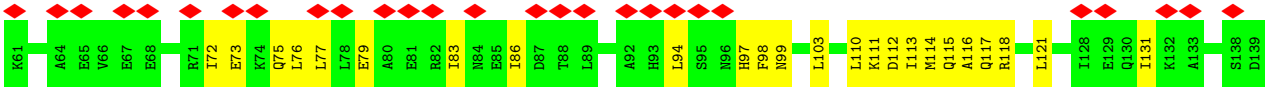


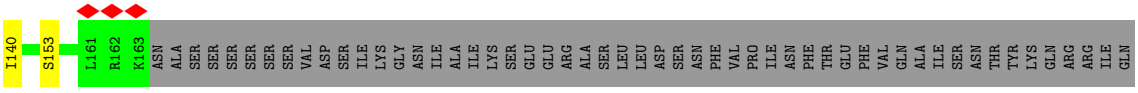
• Molecule 5: Scaffold protein

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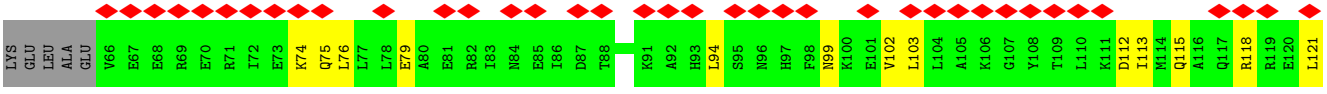


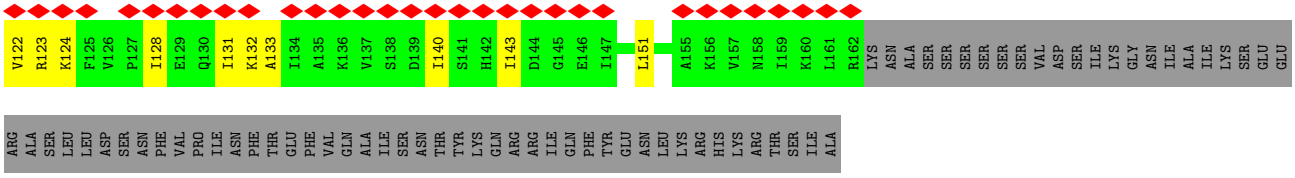
• Molecule 5: Scaffold protein

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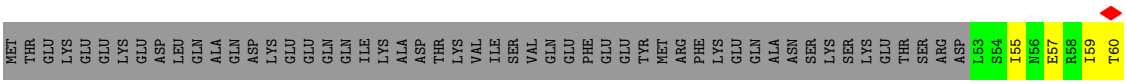


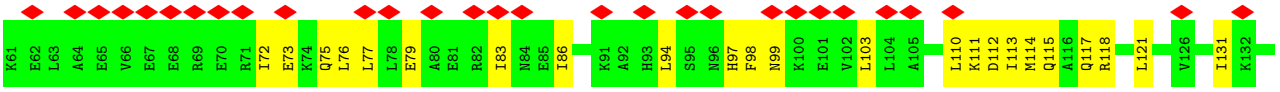


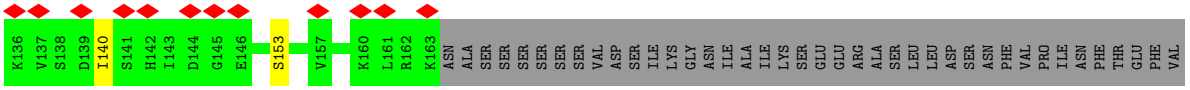
• Molecule 5: Scaffold protein

Chain be:







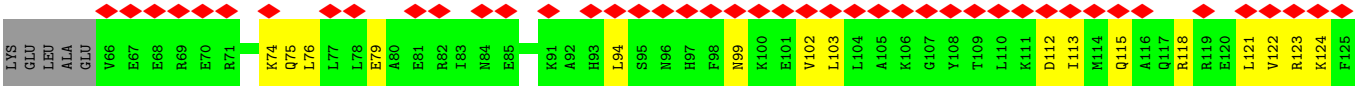


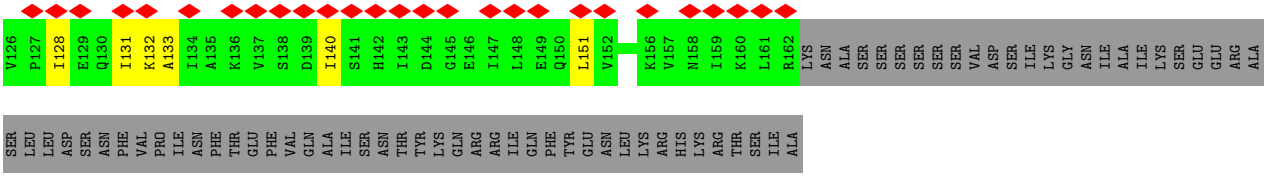
• Molecule 5: Scaffold protein

Chain bf:





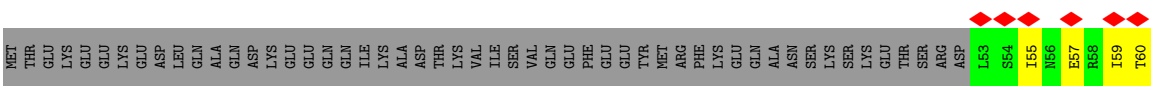


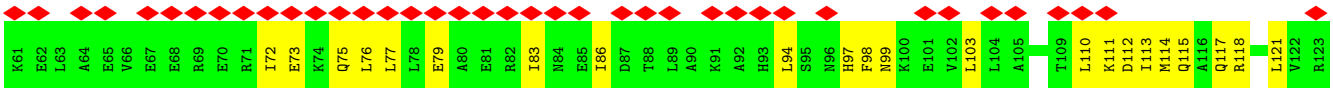


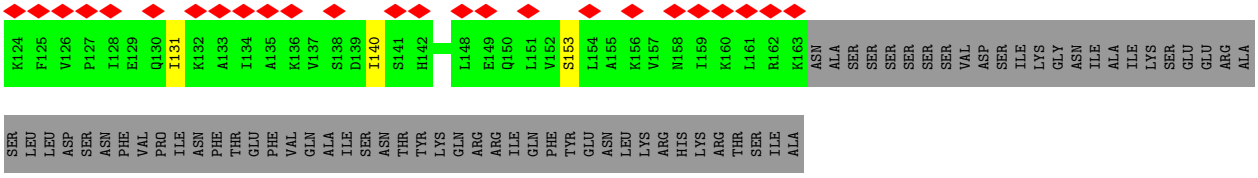
• Molecule 5: Scaffold protein

Chain bg:





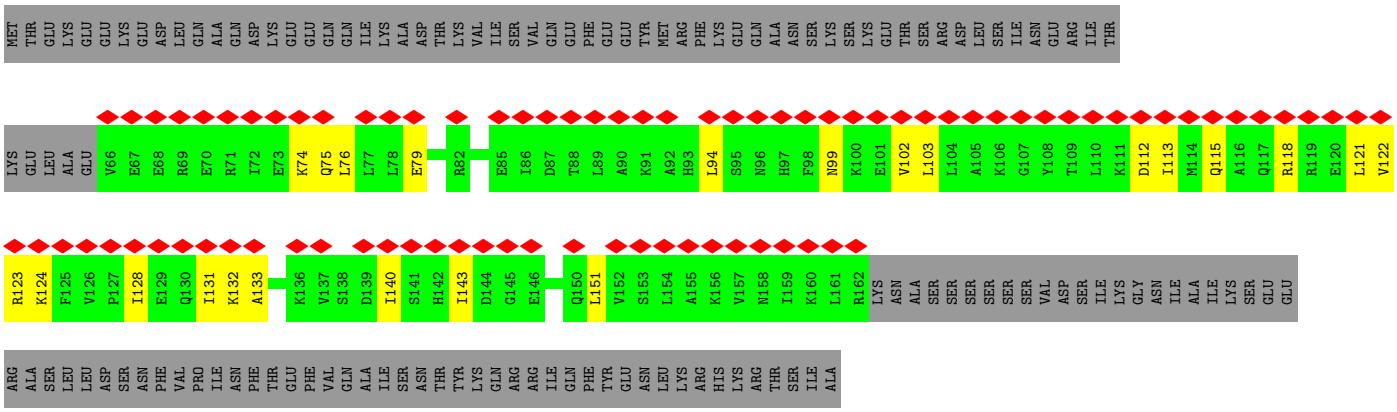




• Molecule 5: Scaffold protein

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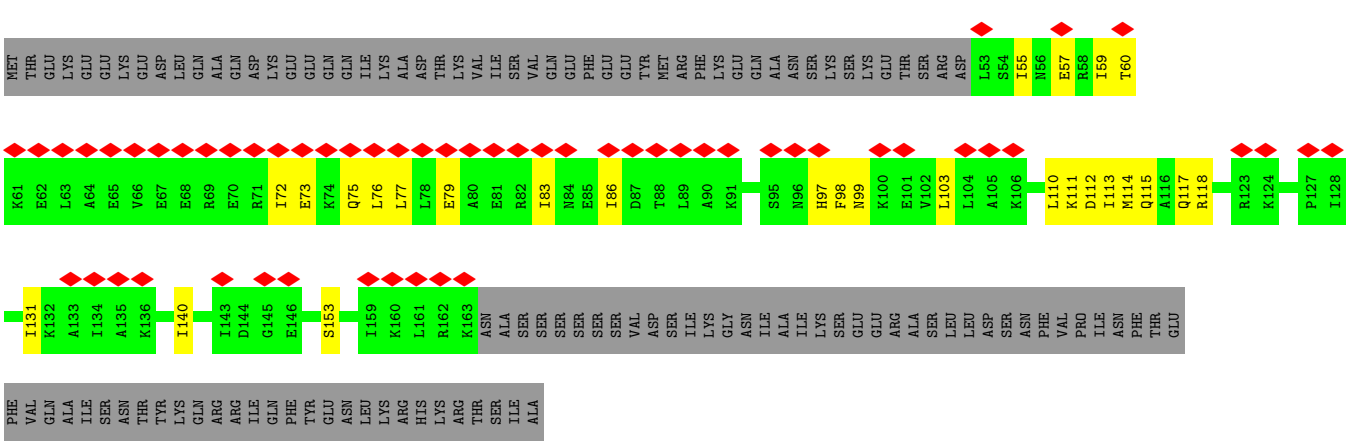




• Molecule 5: Scaffold protein

Chain bi:

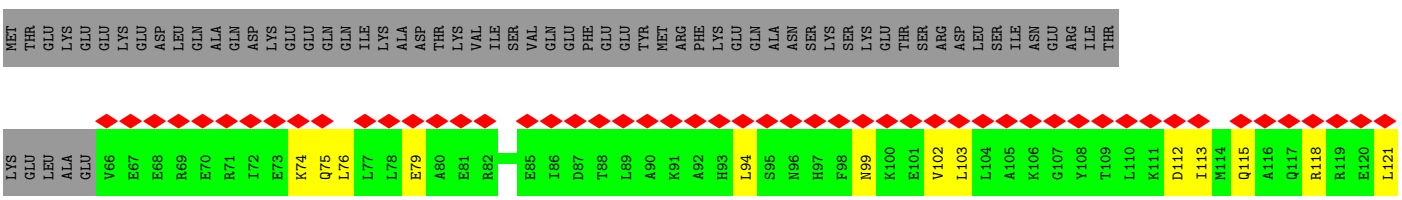


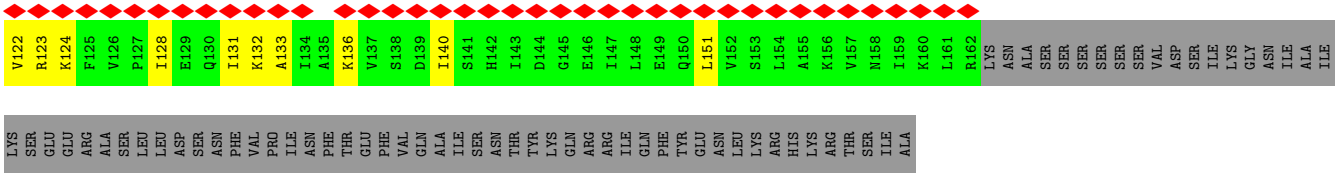


• Molecule 5: Scaffold protein

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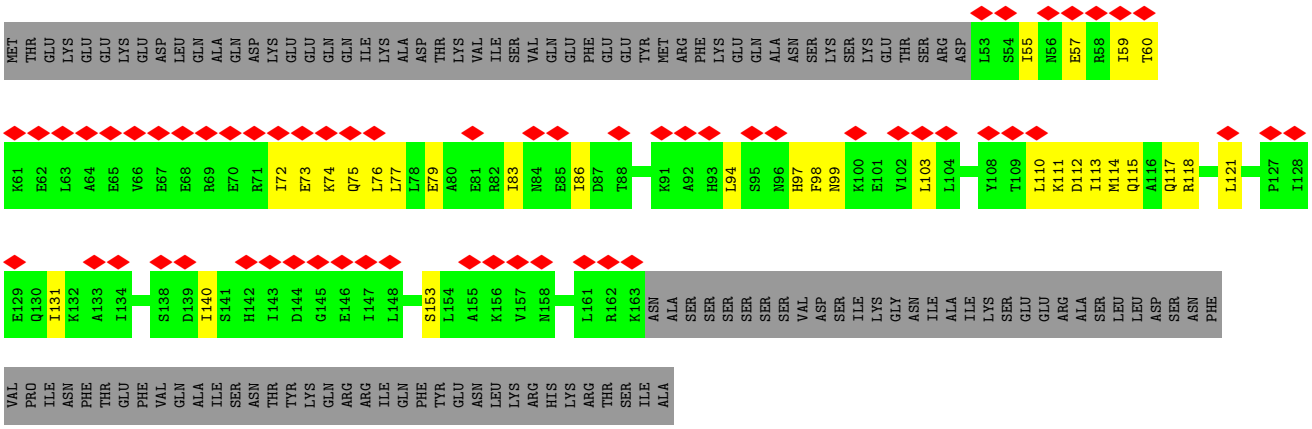




• Molecule 5: Scaffold protein

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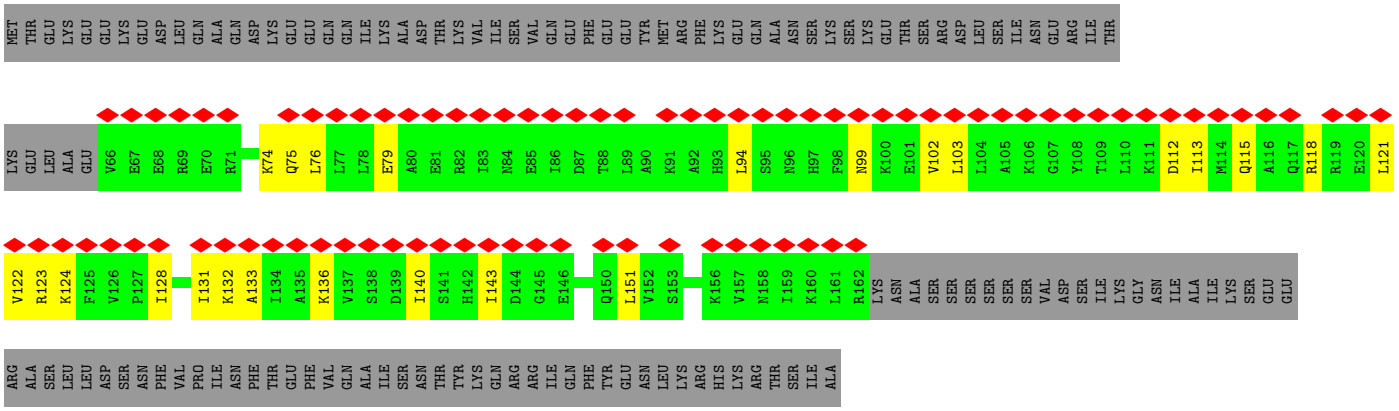




• Molecule 5: Scaffold protein

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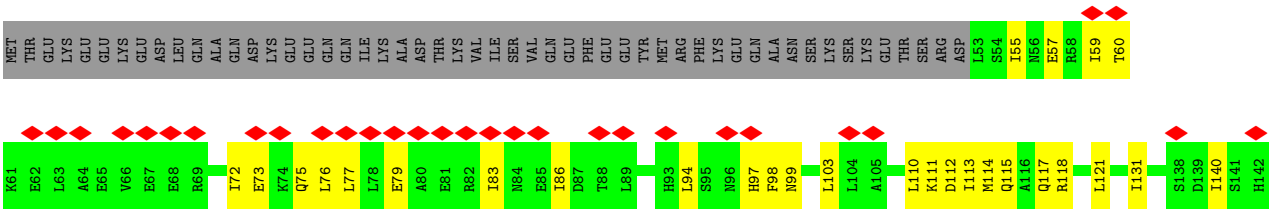


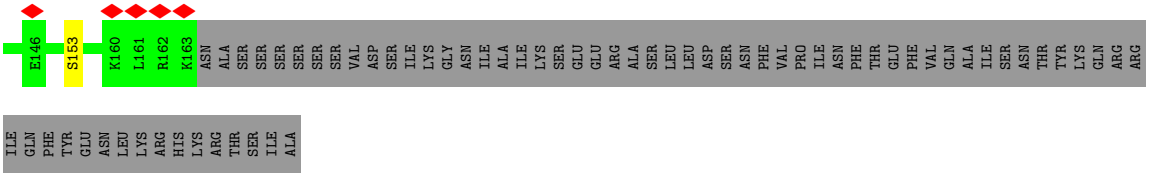


• Molecule 5: Scaffold protein

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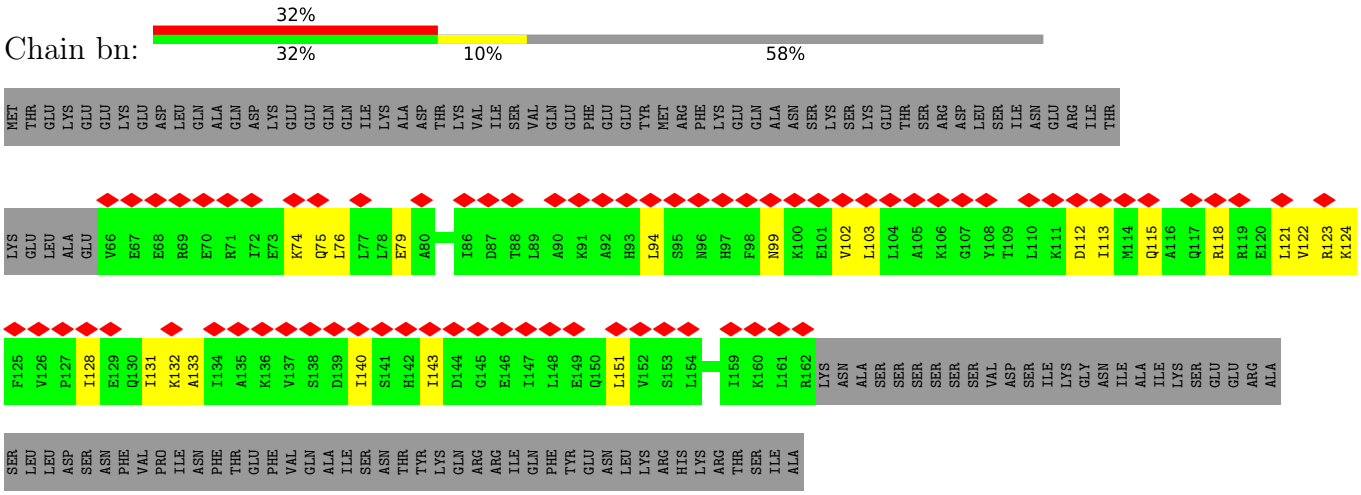






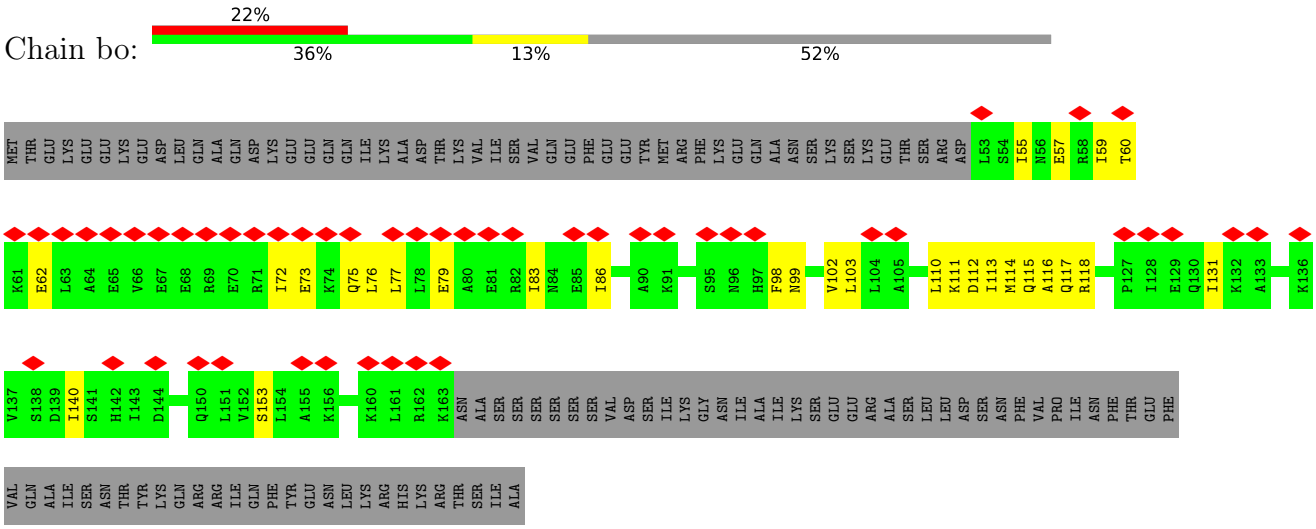
• Molecule 5: Scaffold protein

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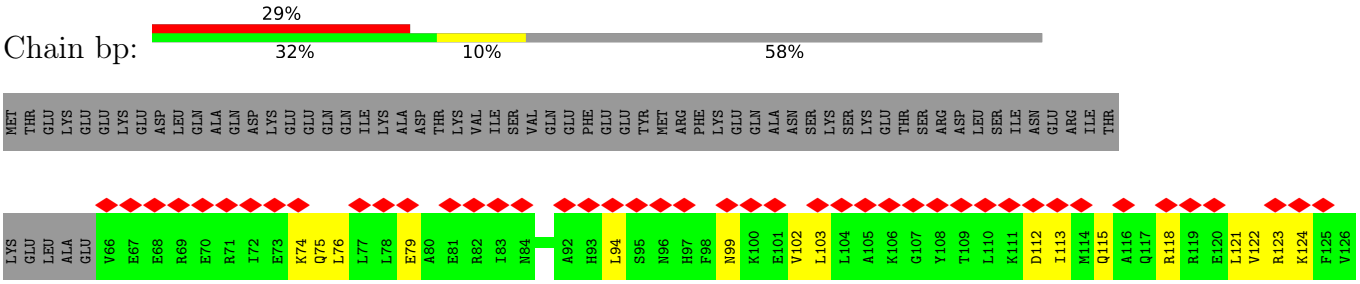
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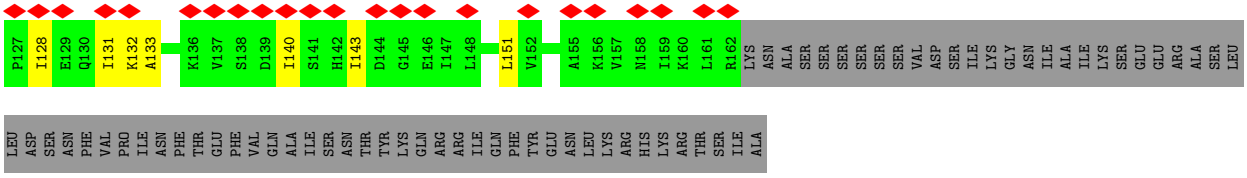
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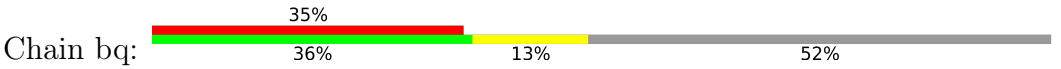
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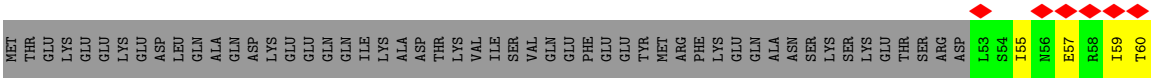
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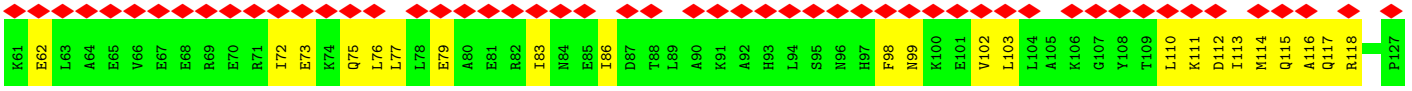


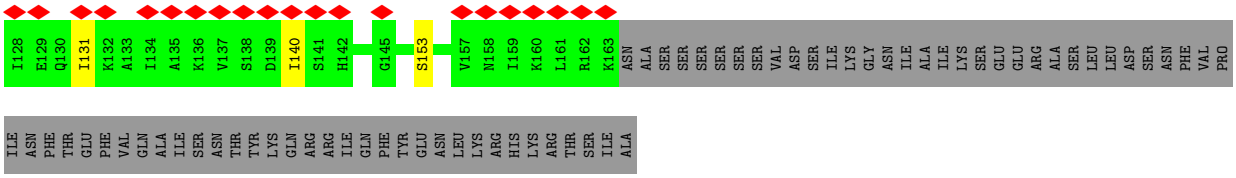


• Molecule 5: Scaffold protein





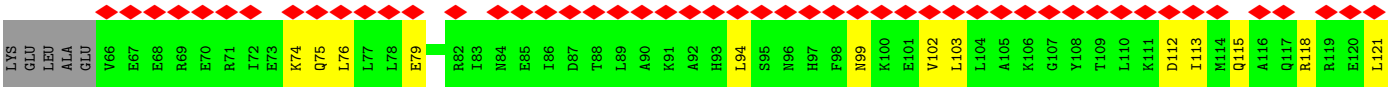


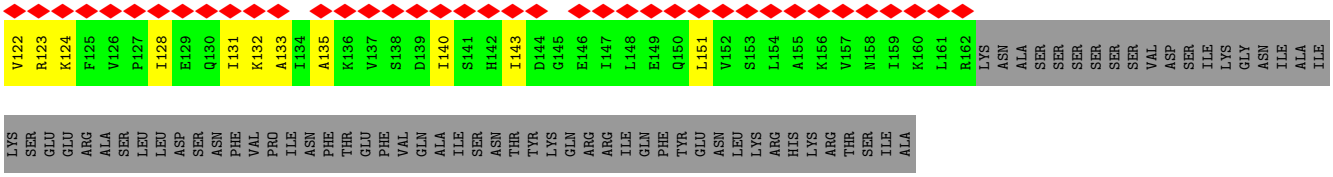


• Molecule 5: Scaffold protein

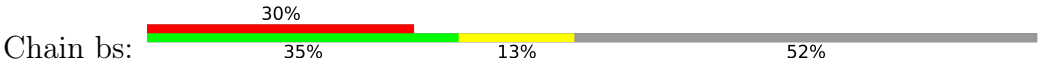


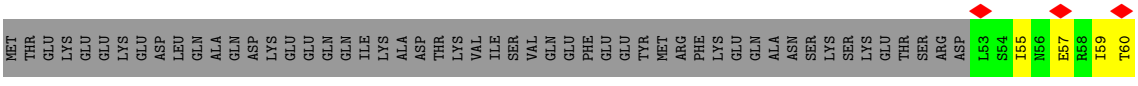


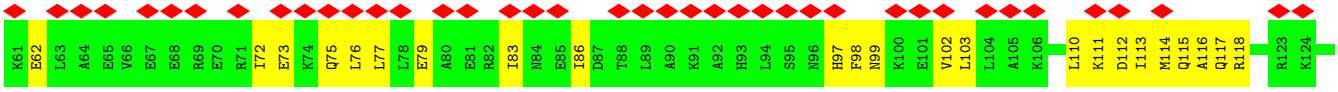


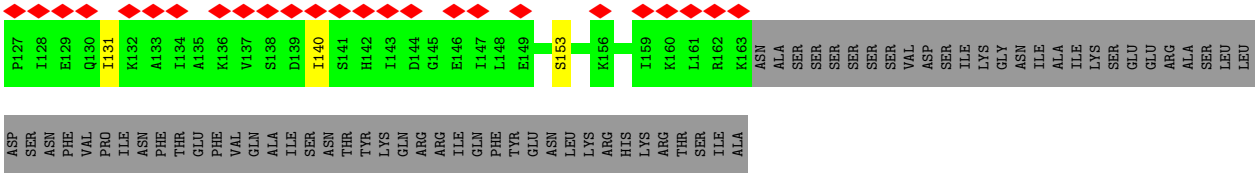


• Molecule 5: Scaffold protein





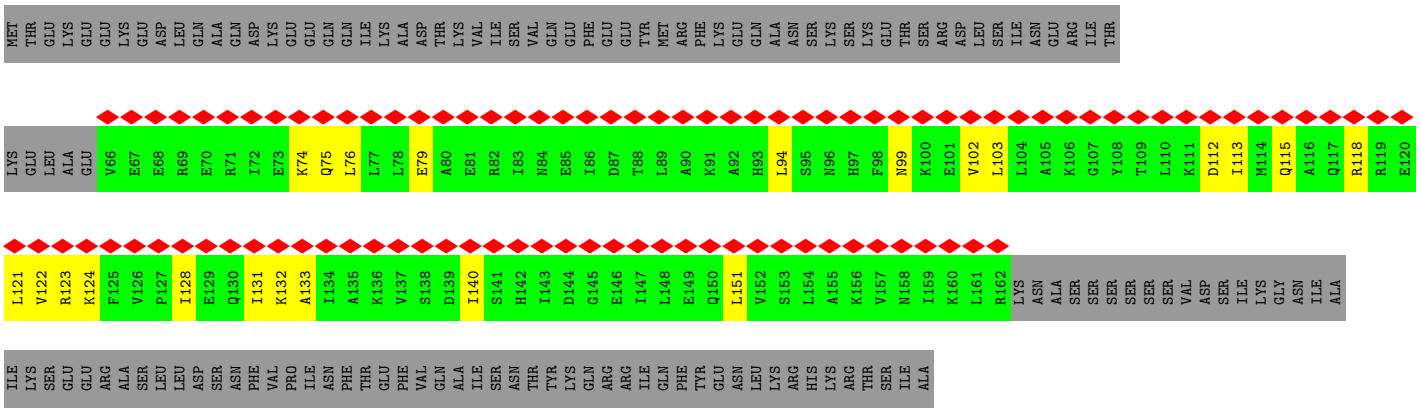




• Molecule 5: Scaffold protein

Chain bt:

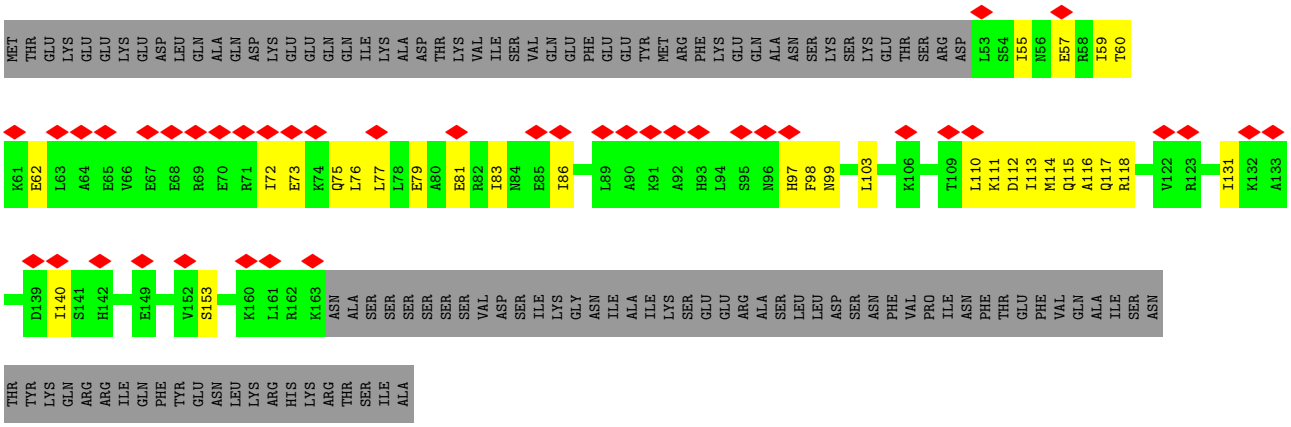




• Molecule 5: Scaffold protein

Chain bu:

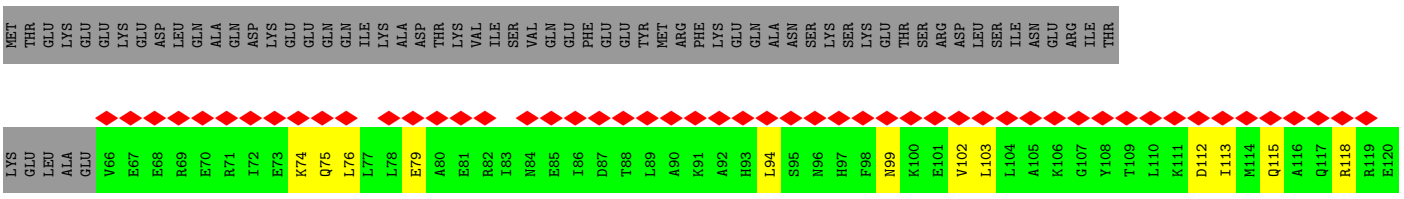


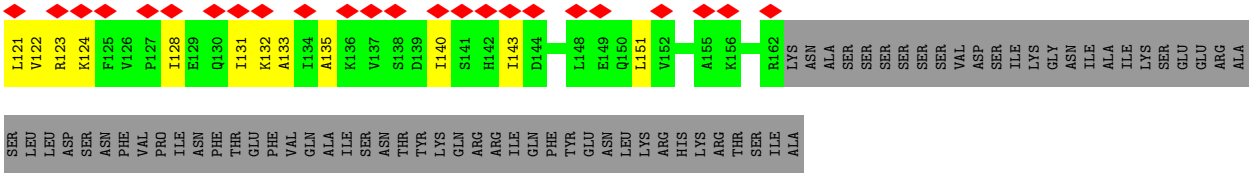


• Molecule 5: Scaffold protein

Chain bv:



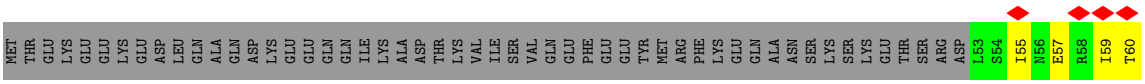


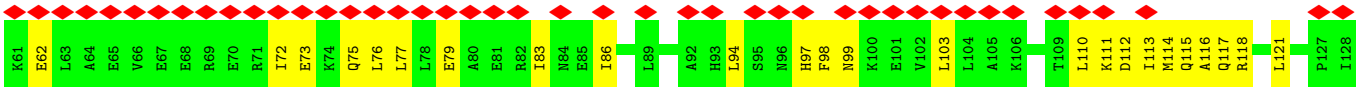


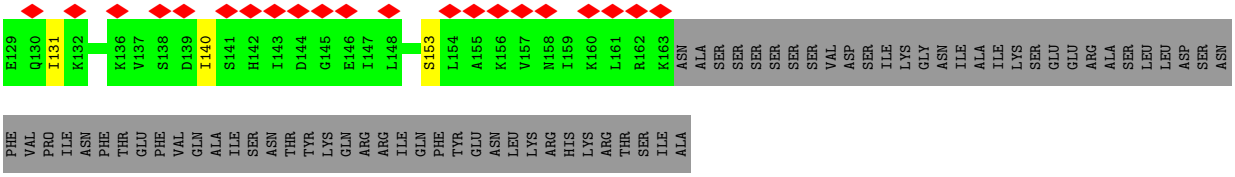
• Molecule 5: Scaffold protein

Chain bw:







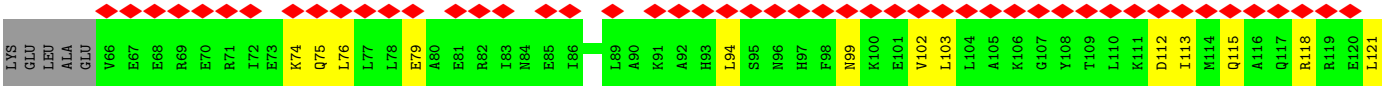


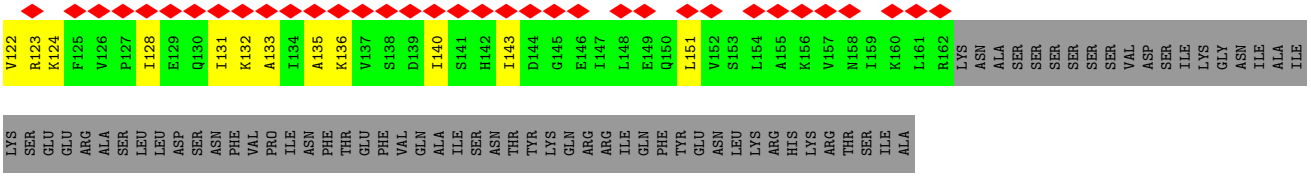
• Molecule 5: Scaffold protein

Chain bx:





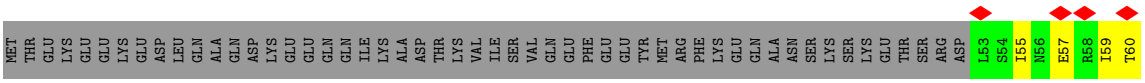


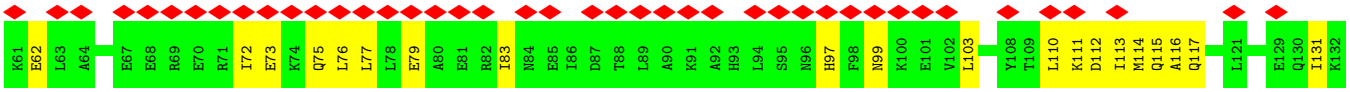


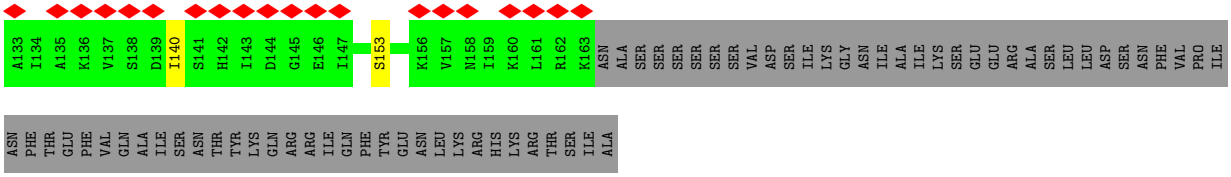
• Molecule 5: Scaffold protein

Chain by:

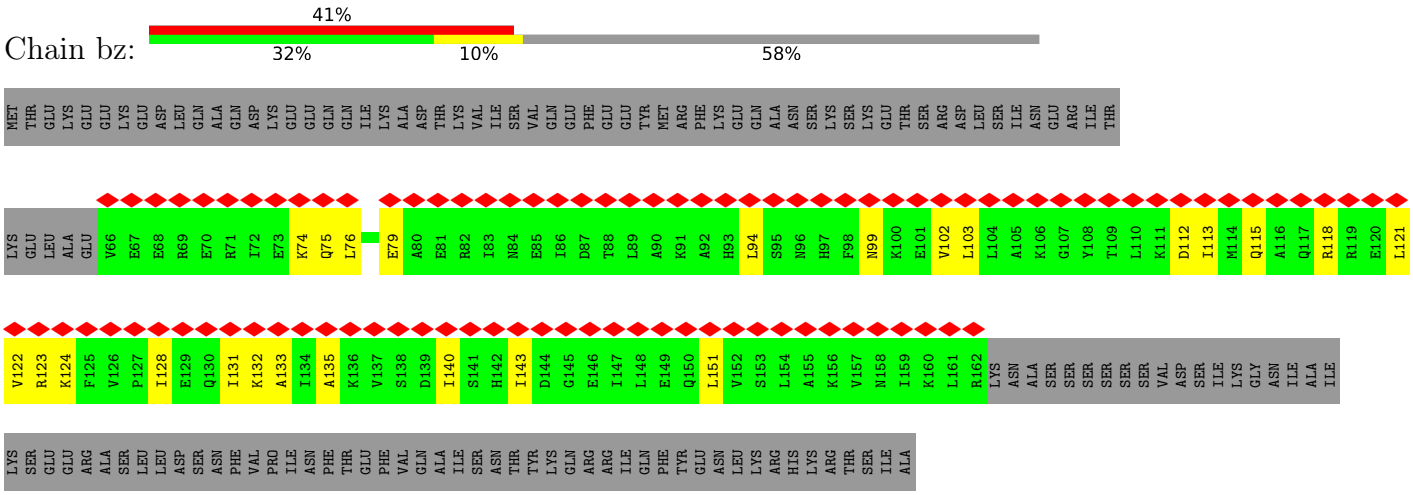




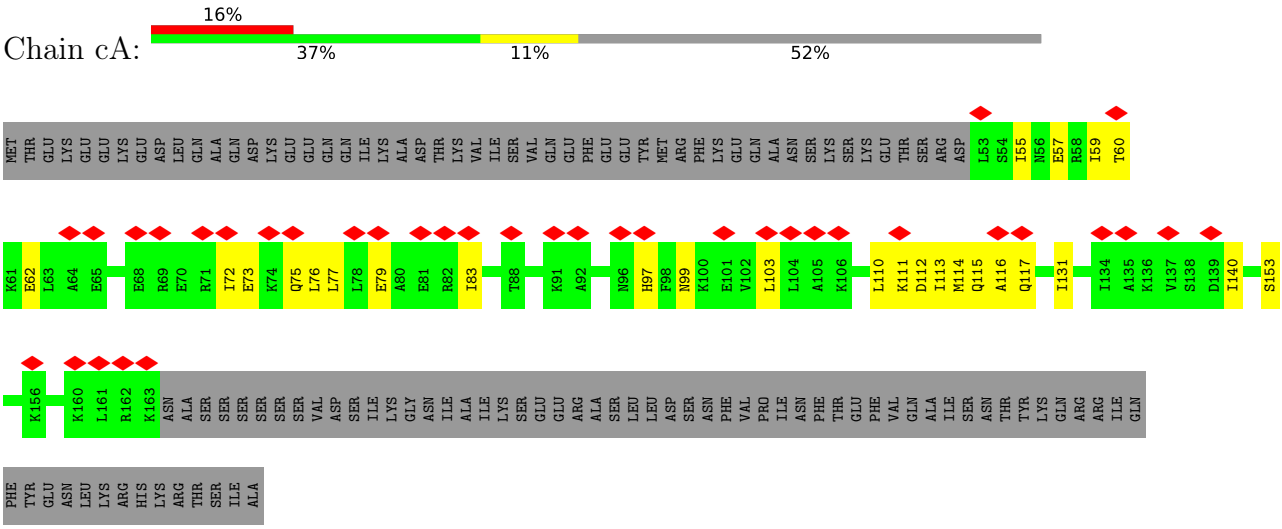




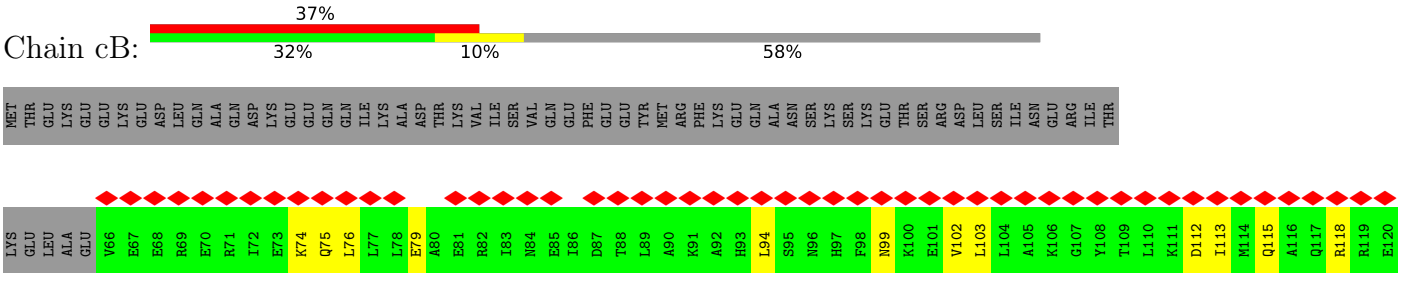
• Molecule 5: Scaffold protein

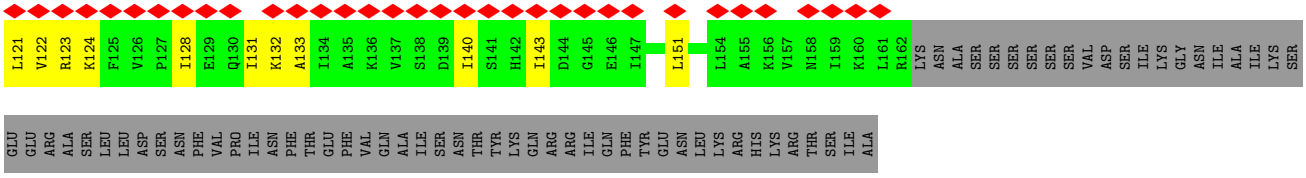


• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

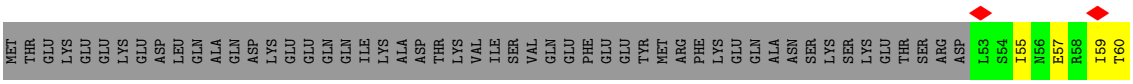


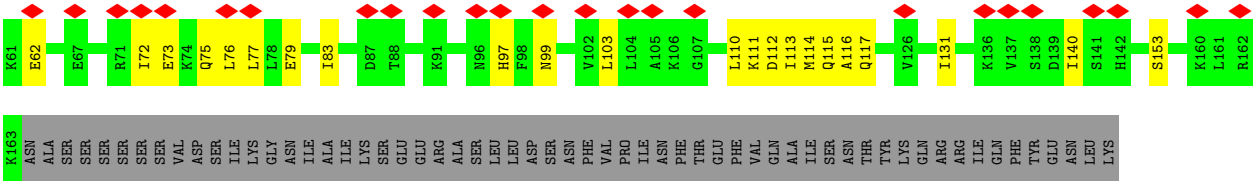


• Molecule 5: Scaffold protein

Chain cC:





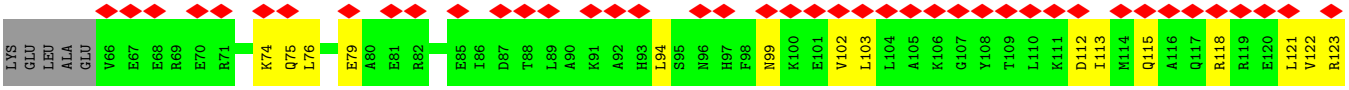


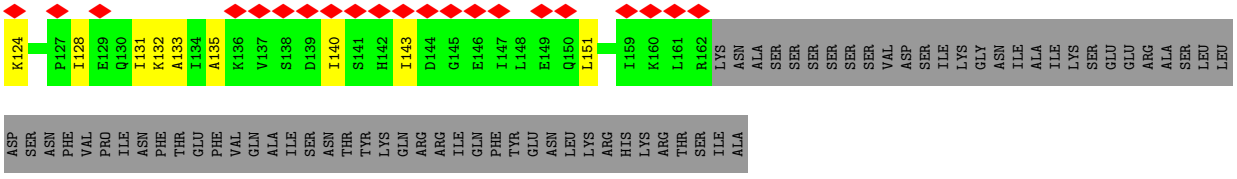
• Molecule 5: Scaffold protein

Chain cD:





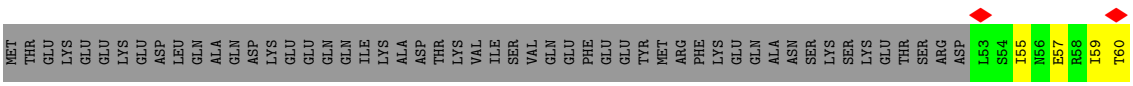


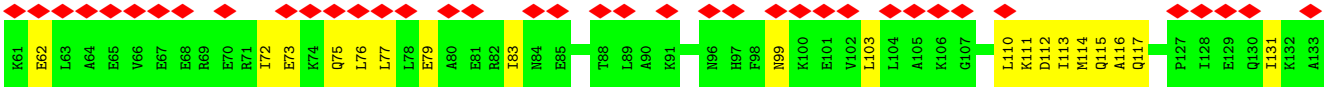


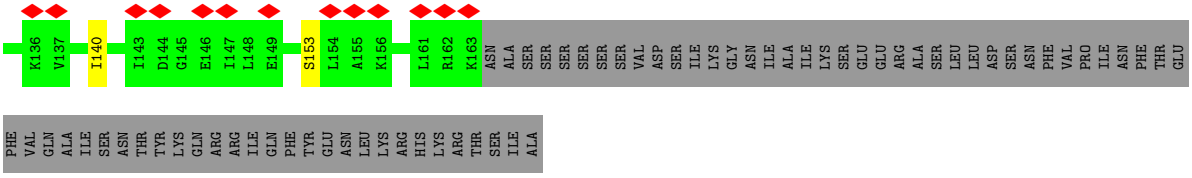
• Molecule 5: Scaffold protein

Chain cE:









• Molecule 5: Scaffold protein

Chain cF:

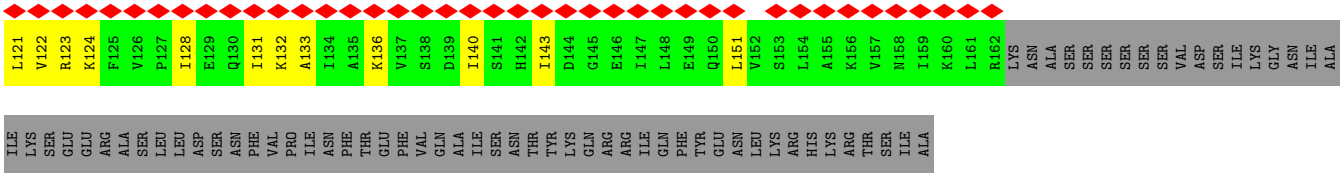


• Molecule 5: Scaffold protein

Chain cG:

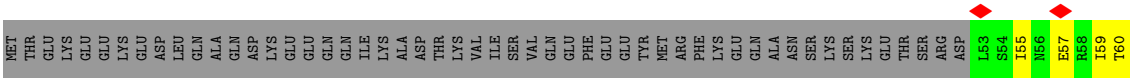
• Molecule 5: Scaffold protein

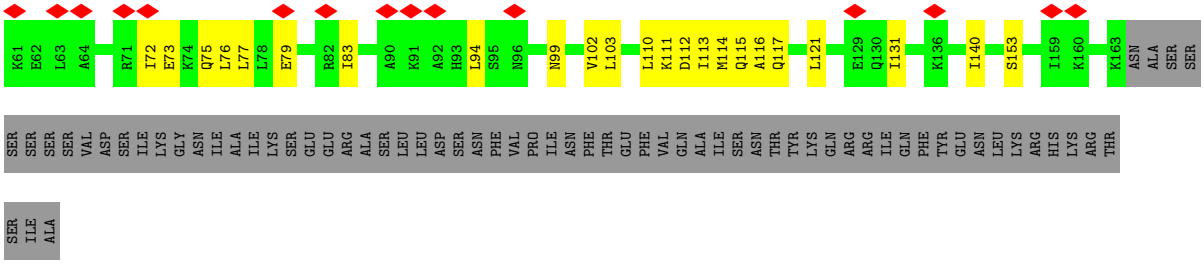
Chain cH:



• Molecule 5: Scaffold protein



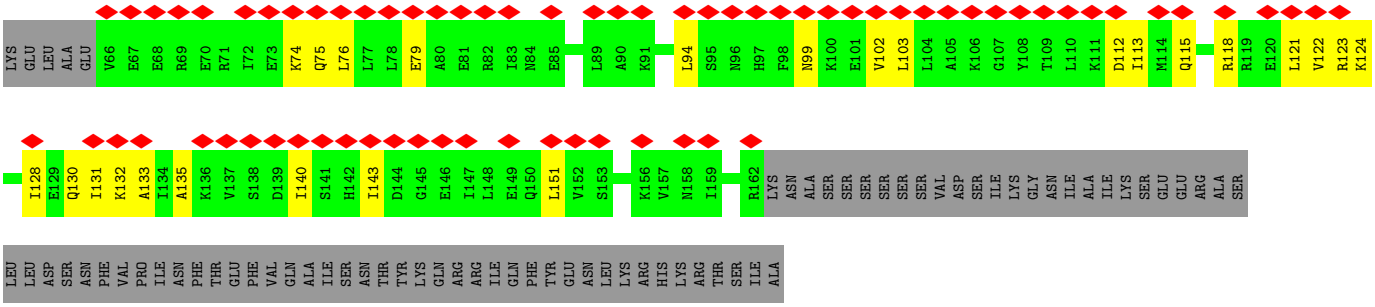




• Molecule 5: Scaffold protein

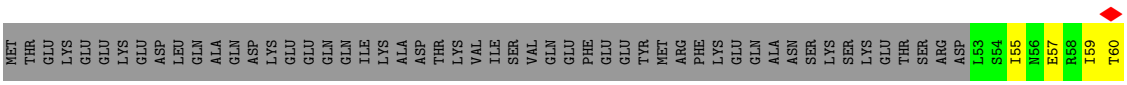


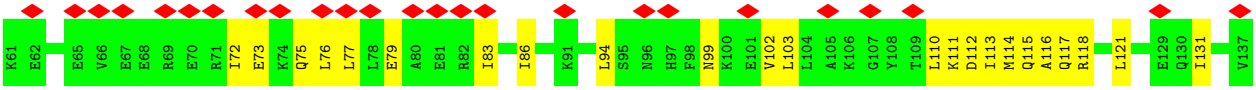


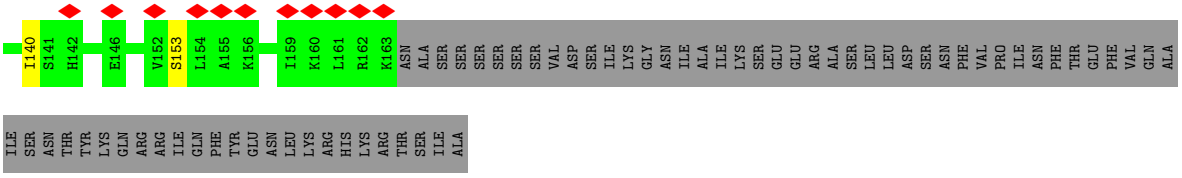


• Molecule 5: Scaffold protein







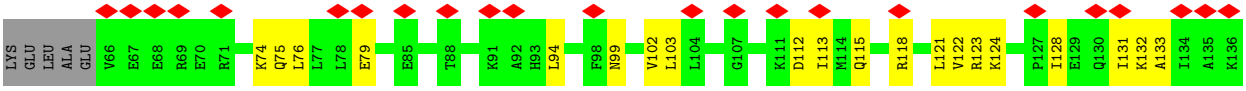


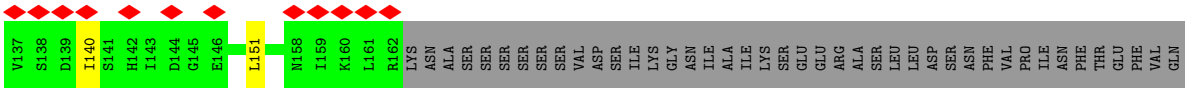
• Molecule 5: Scaffold protein

Chain cL:







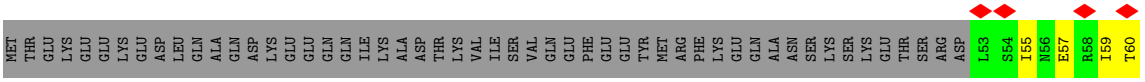


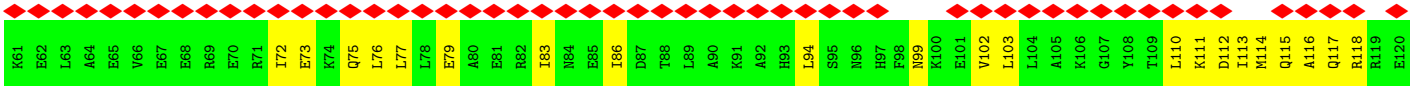


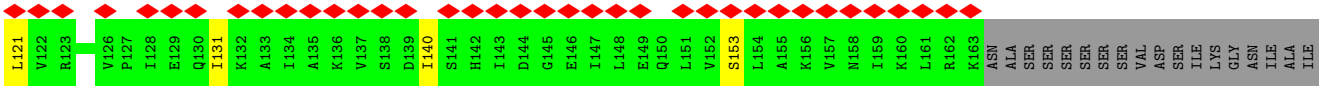
• Molecule 5: Scaffold protein

Chain cM:









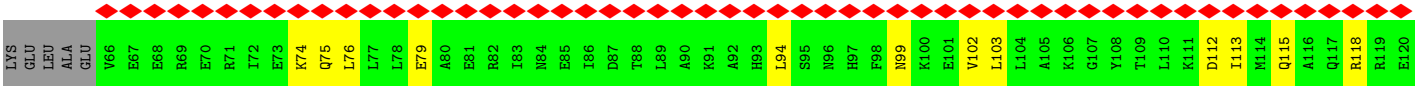


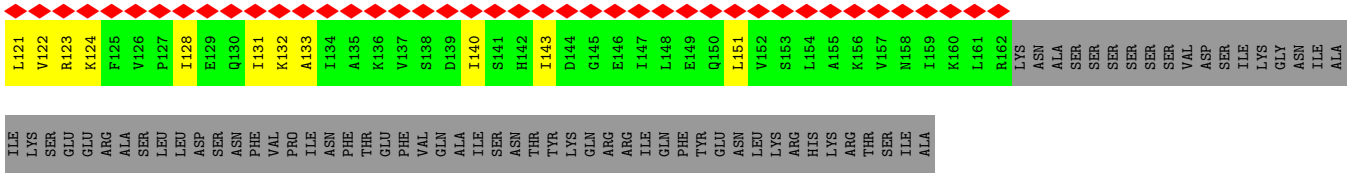
• Molecule 5: Scaffold protein

Chain cN:





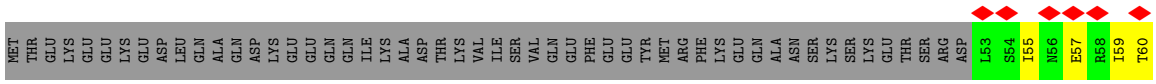


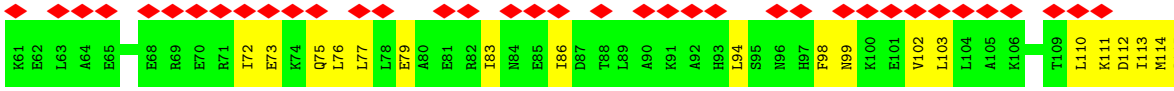


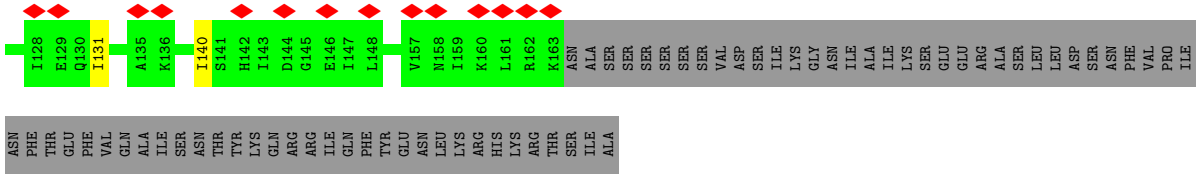
• Molecule 5: Scaffold protein

Chain cO:







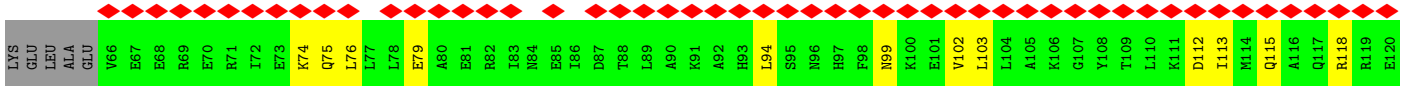


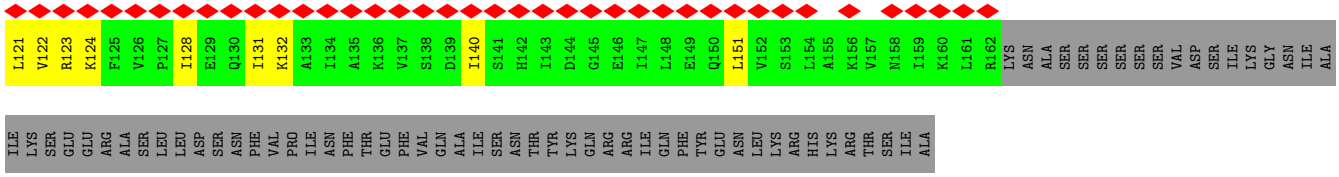
• Molecule 5: Scaffold protein

Chain cP:





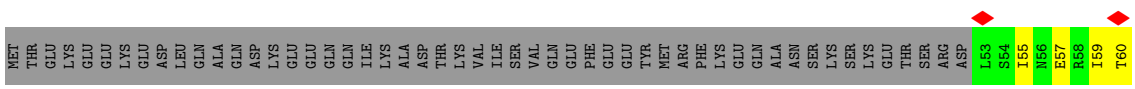


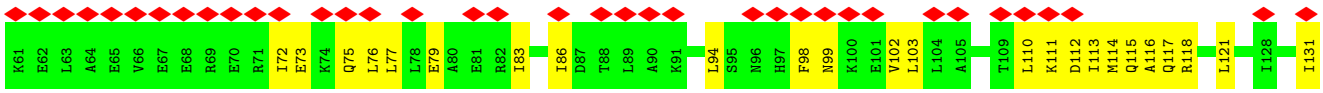


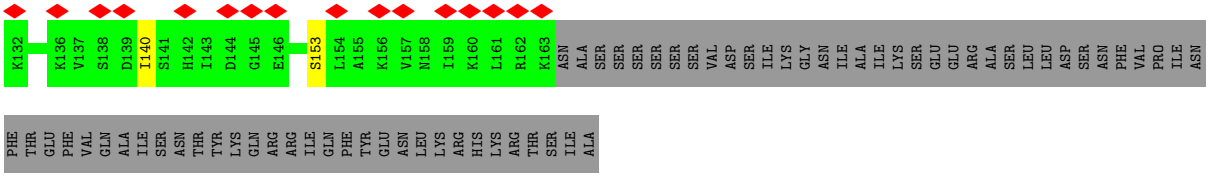
• Molecule 5: Scaffold protein

Chain cQ:







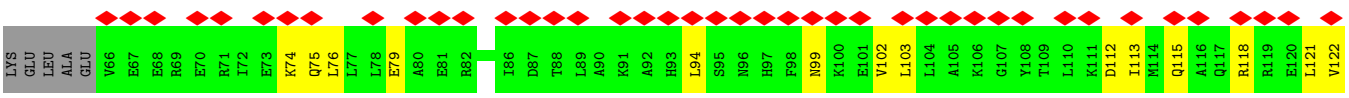


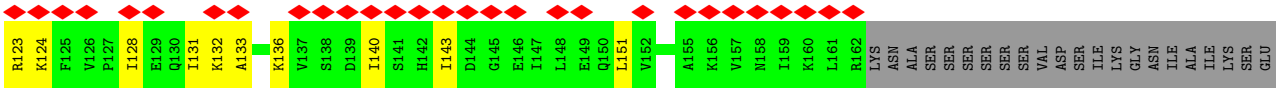
• Molecule 5: Scaffold protein

Chain cR:







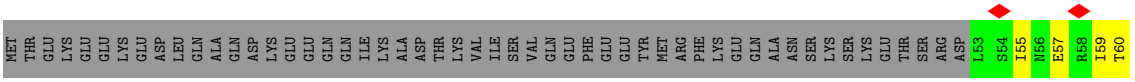


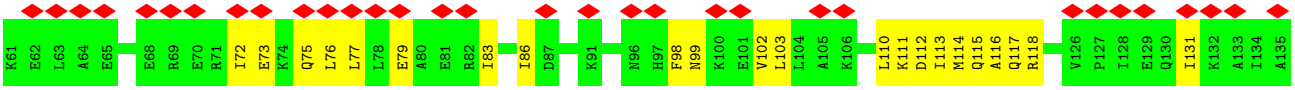


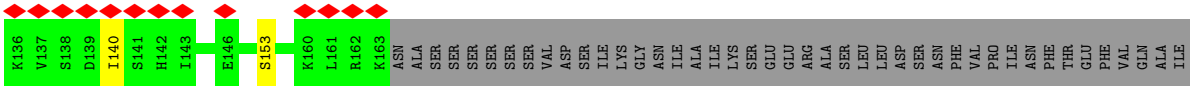
• Molecule 5: Scaffold protein

Chain cS:









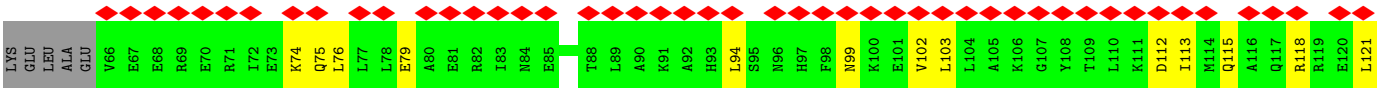


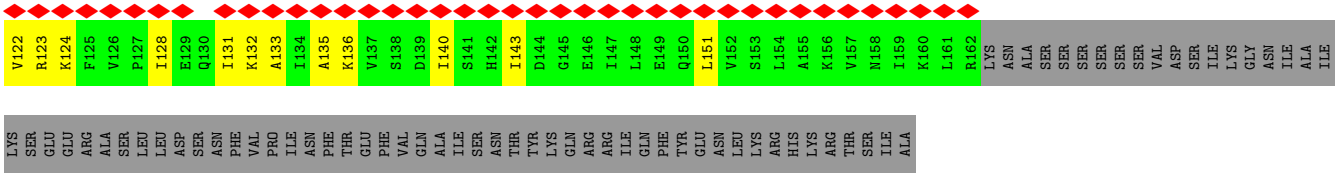
• Molecule 5: Scaffold protein

Chain cT:





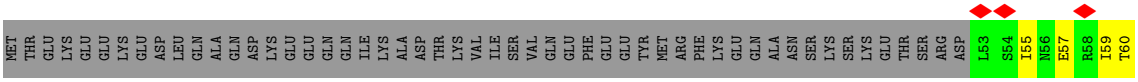


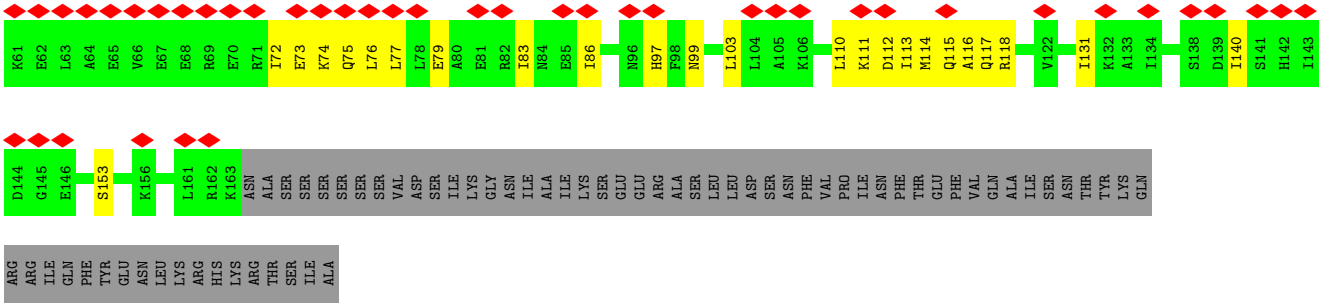


• Molecule 5: Scaffold protein

Chain cU:





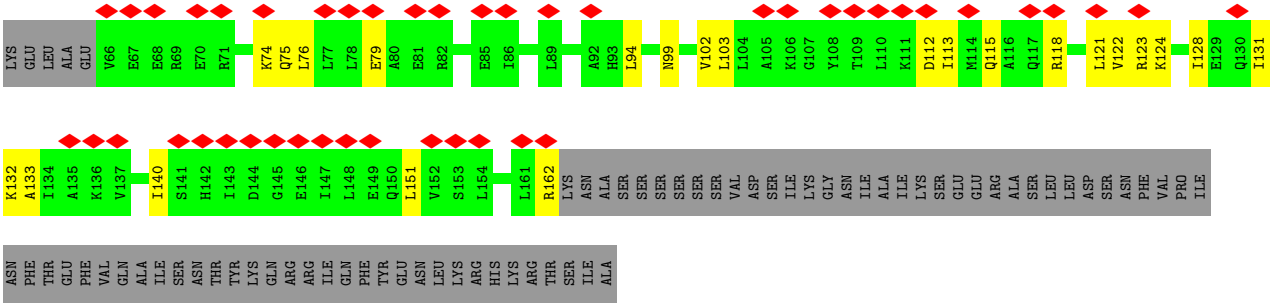


• Molecule 5: Scaffold protein

Chain cV:



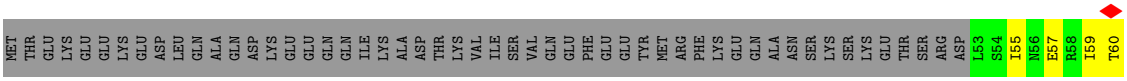


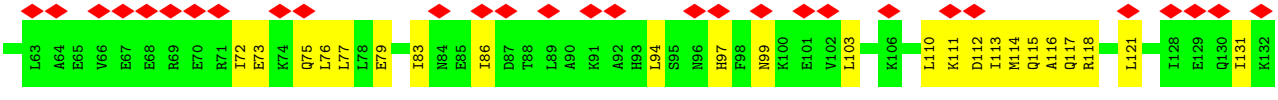


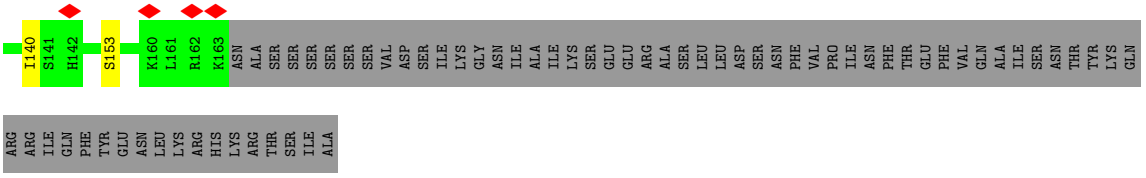
• Molecule 5: Scaffold protein

Chain cW:





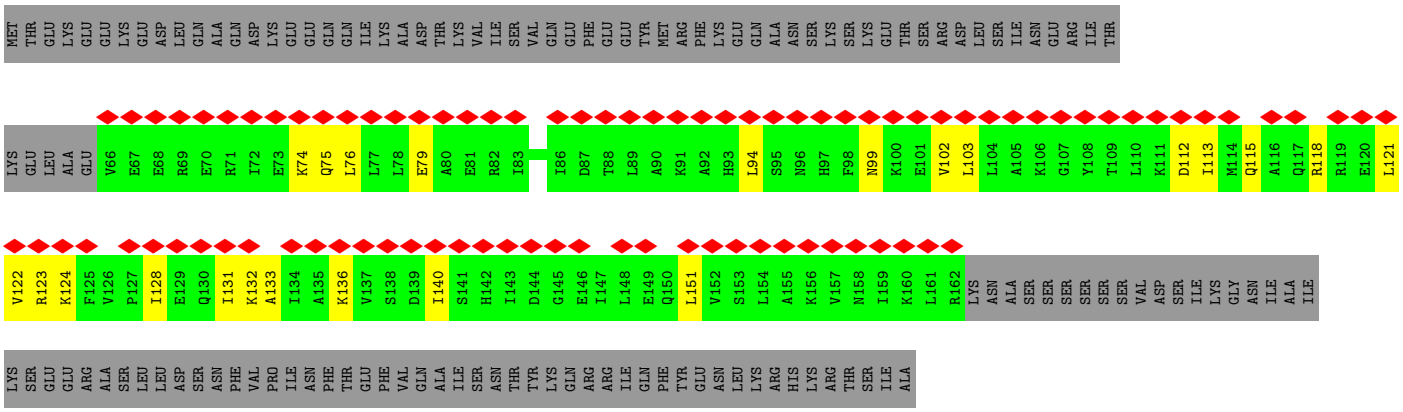




• Molecule 5: Scaffold protein

Chain cX:

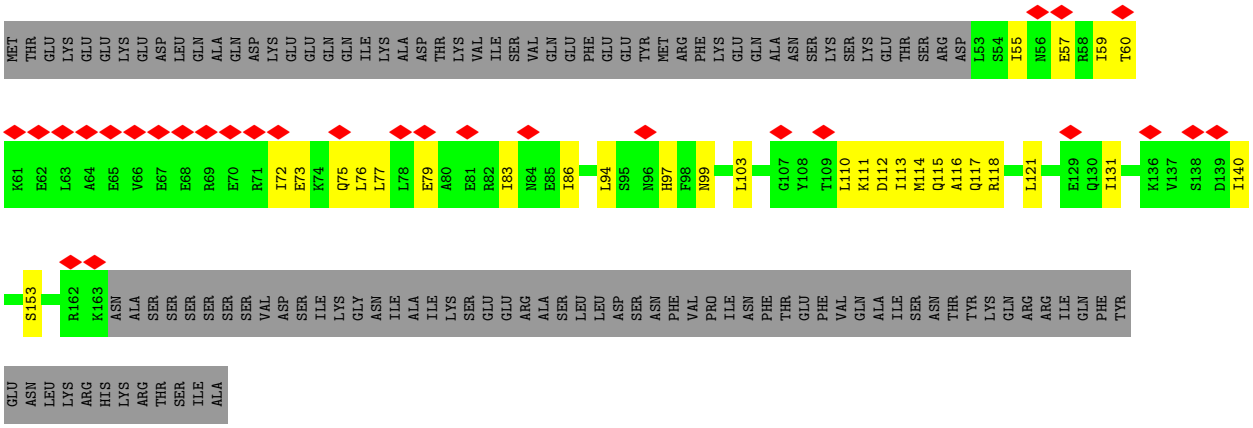




• Molecule 5: Scaffold protein

Chain cY:

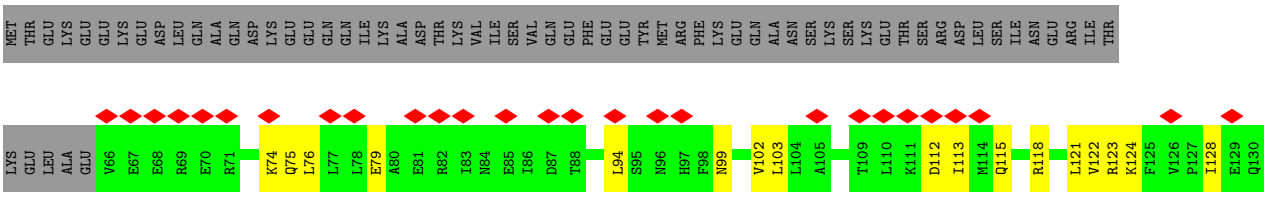


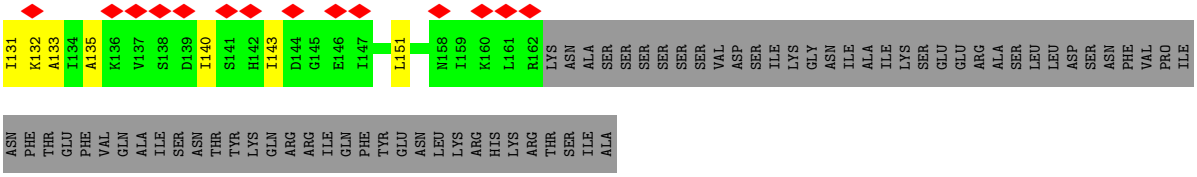


• Molecule 5: Scaffold protein

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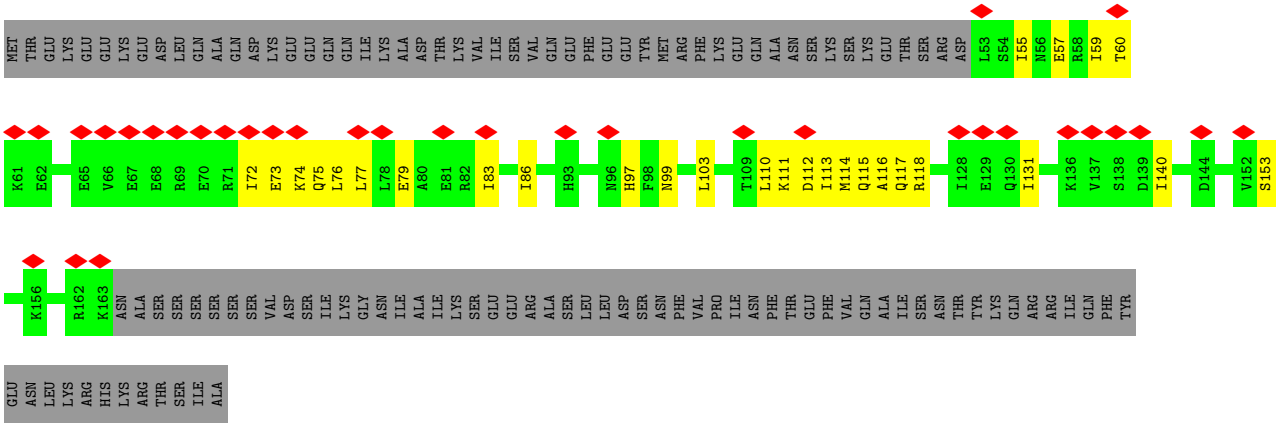




• Molecule 5: Scaffold protein

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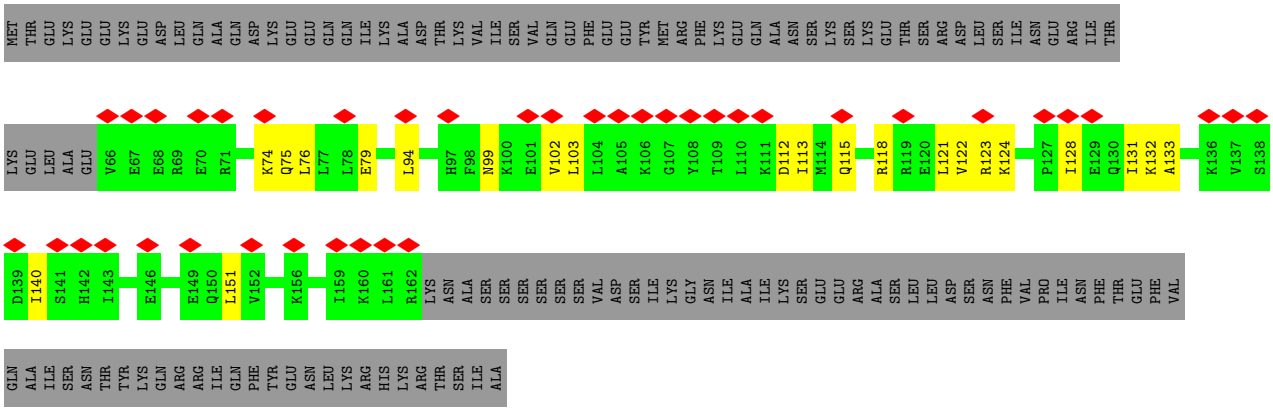




• Molecule 5: Scaffold protein

Chain cb:

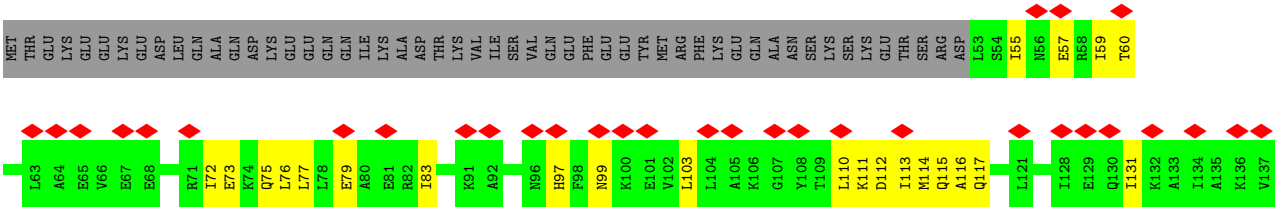


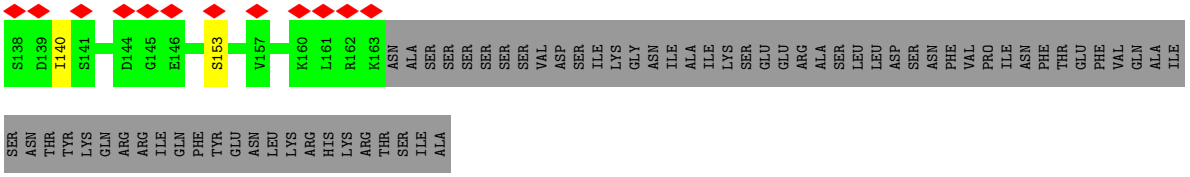


• Molecule 5: Scaffold protein

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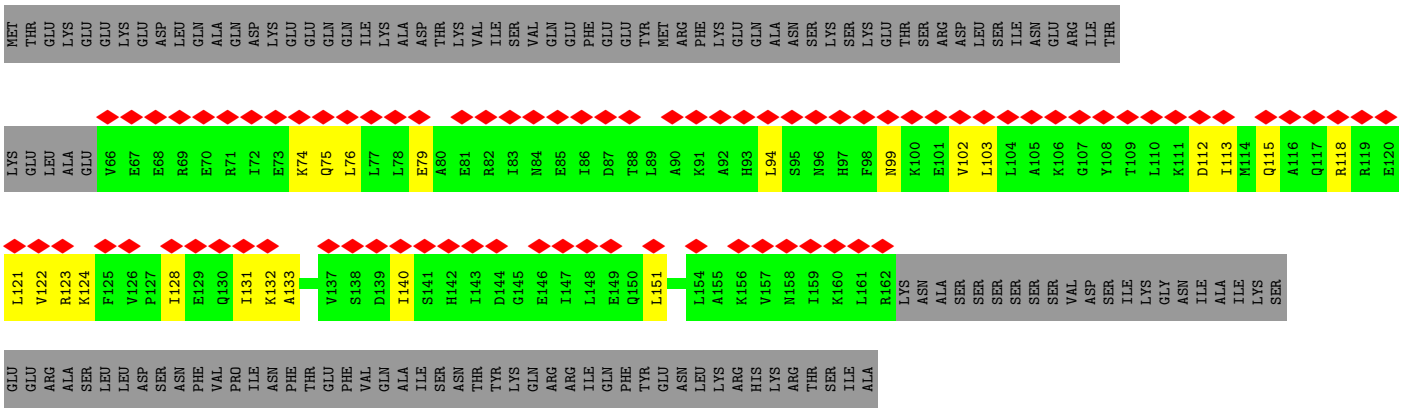




• Molecule 5: Scaffold protein

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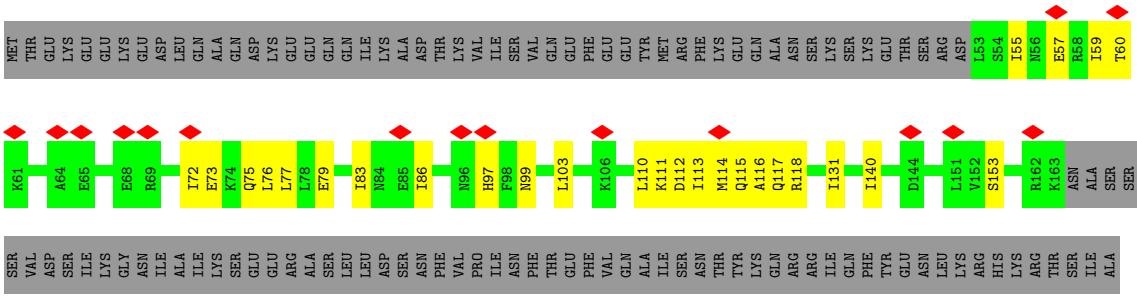




• Molecule 5: Scaffold protein

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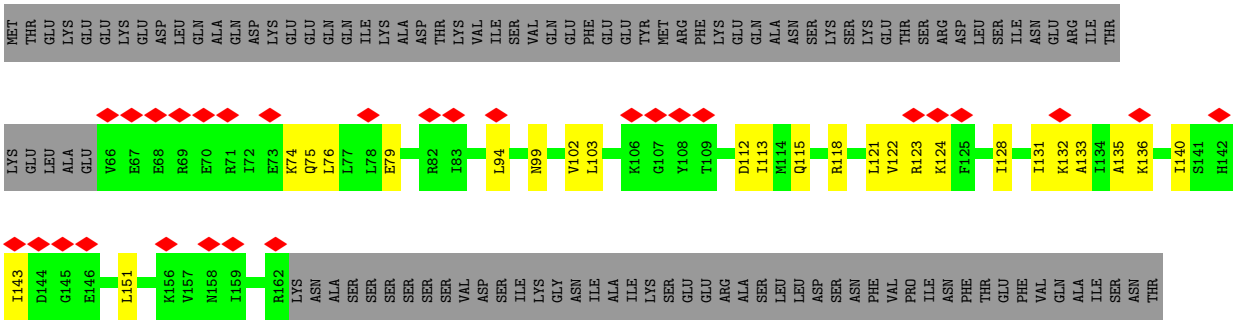




• Molecule 5: Scaffold protein

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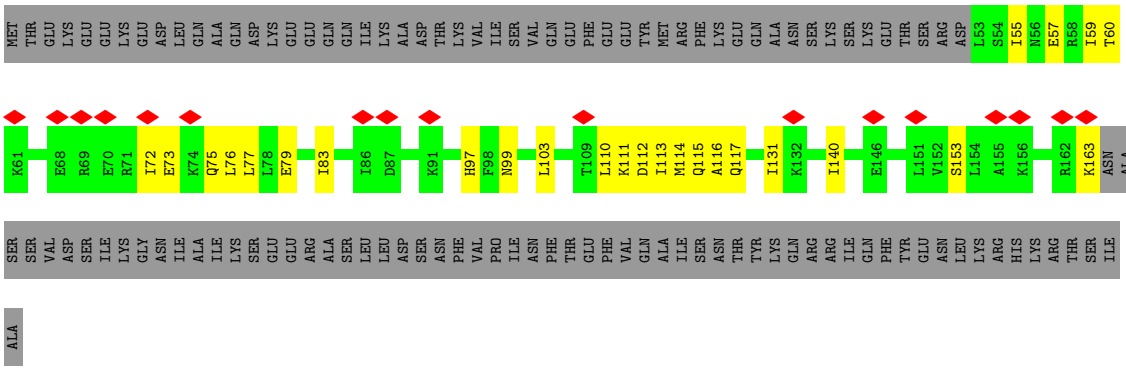




• Molecule 5: Scaffold protein

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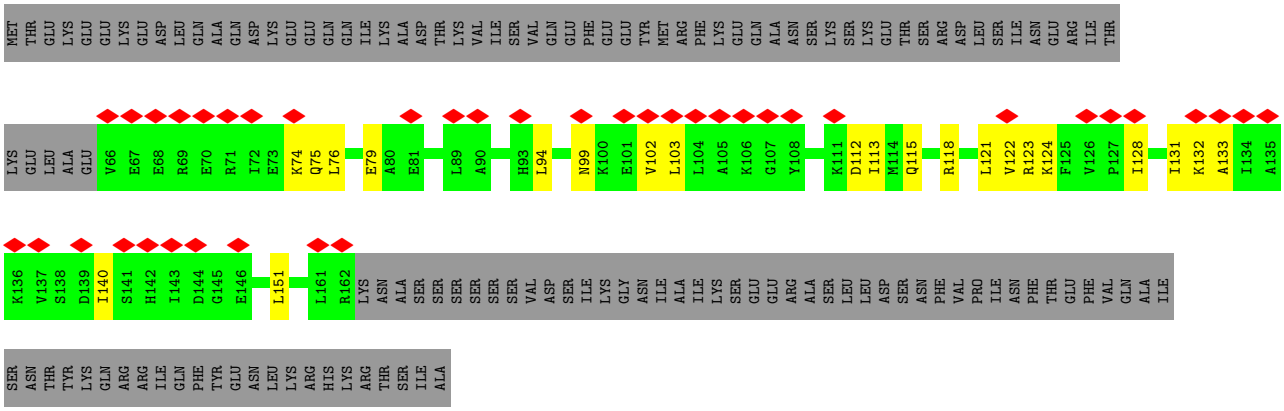




• Molecule 5: Scaffold protein

Chain ch:

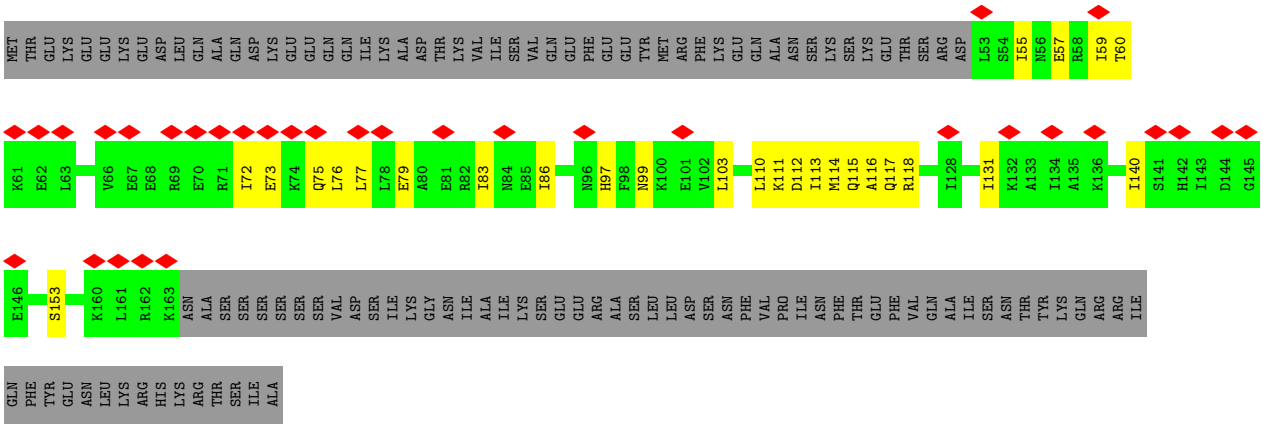




• Molecule 5: Scaffold protein

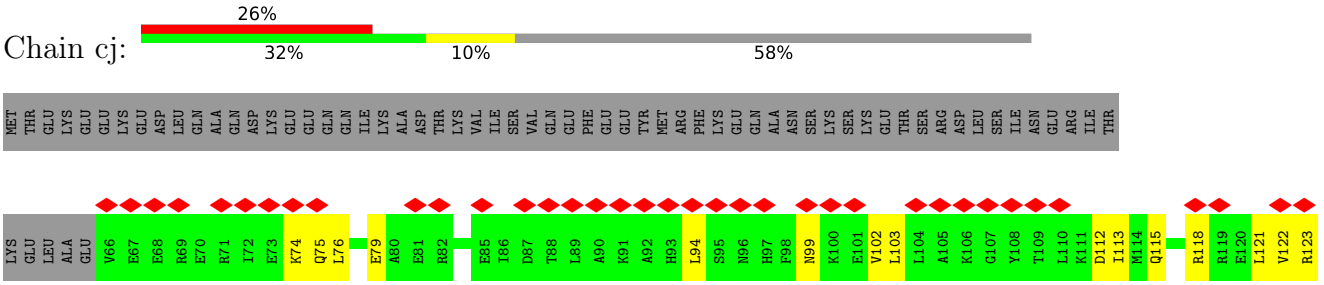
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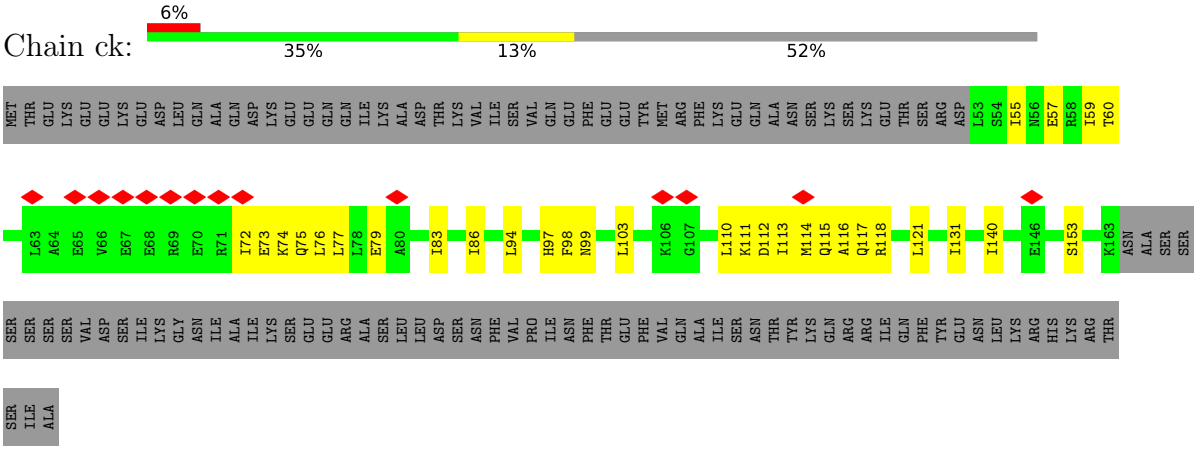
• Molecule 5: Scaffold protein

Chain cj:



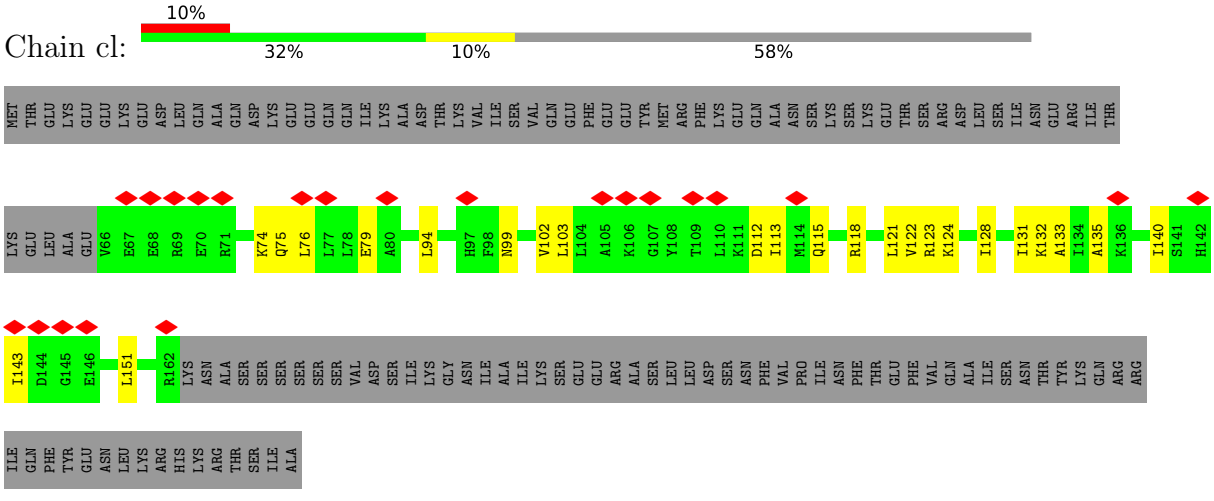
• Molecule 5: Scaffold protein

Chain ck:



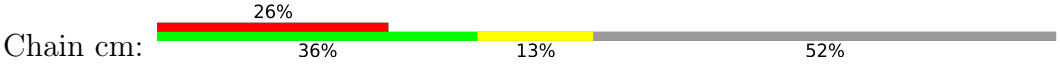
• Molecule 5: Scaffold protein

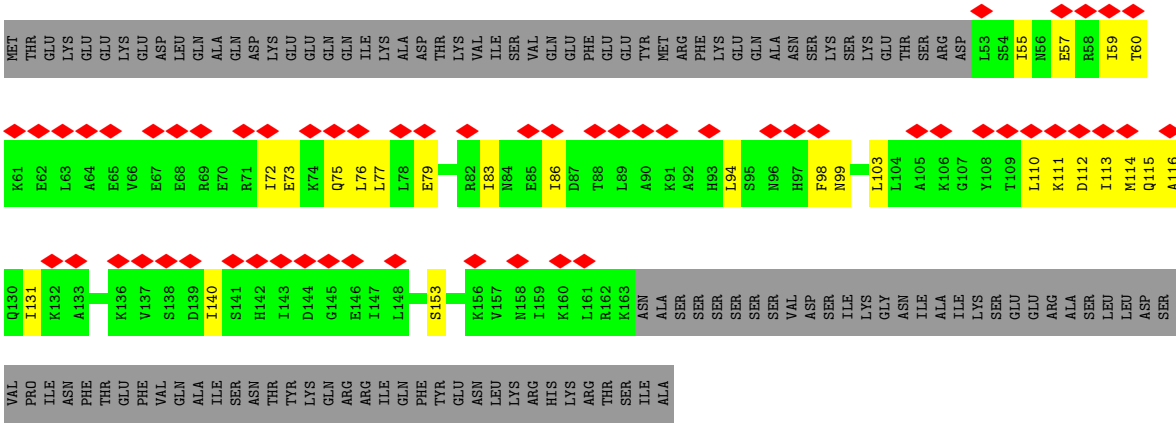
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• Molecule 5: Scaffold protein

Chain cm:

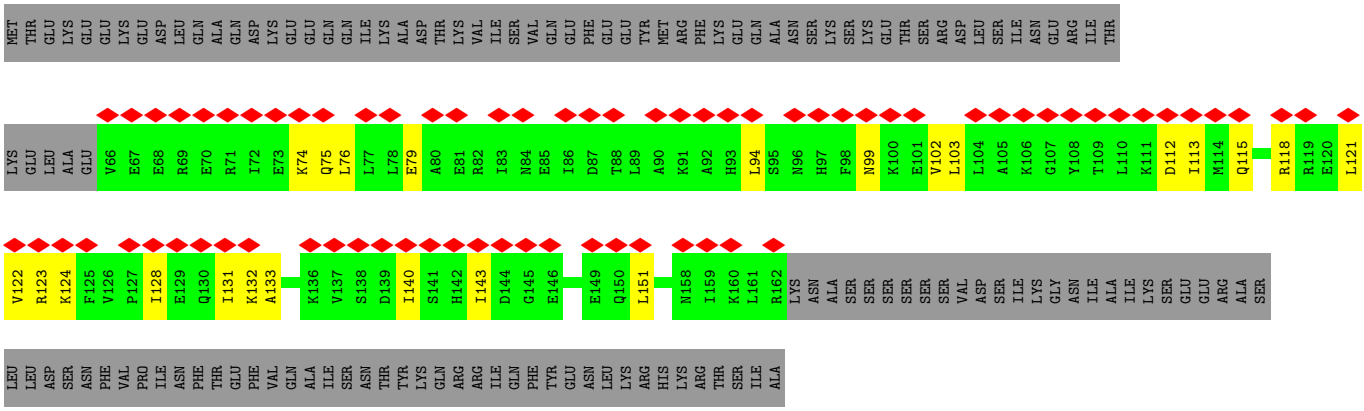




• Molecule 5: Scaffold protein

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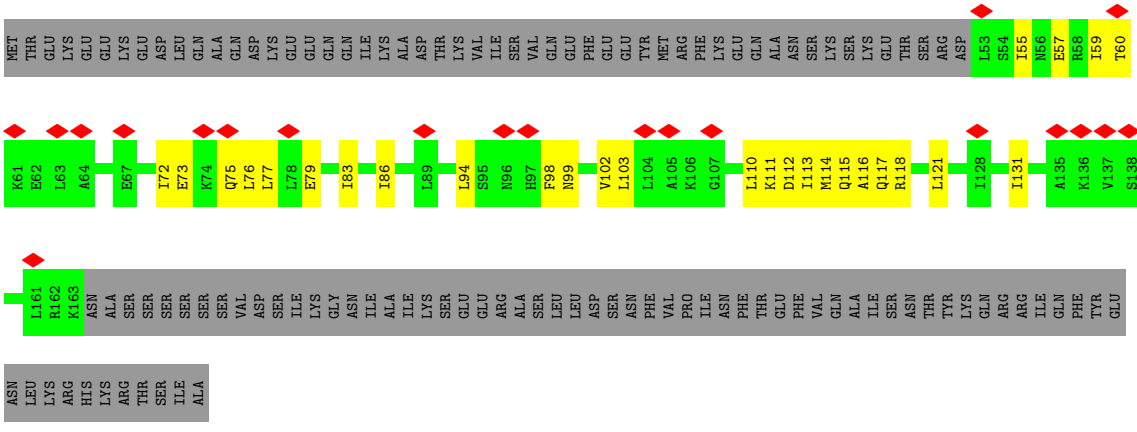




• Molecule 5: Scaffold protein

Chain co:

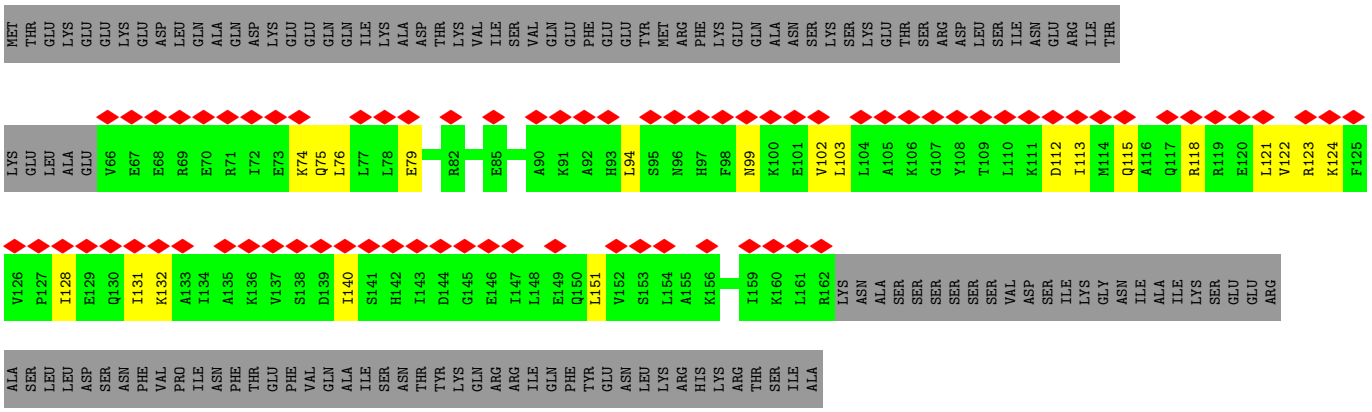




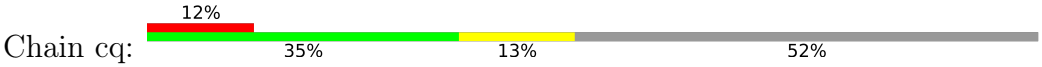
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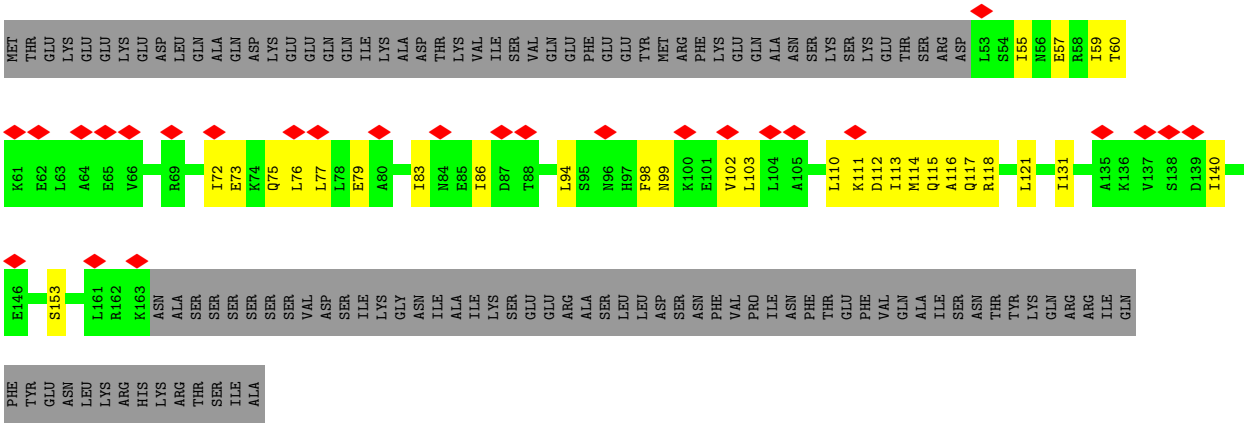
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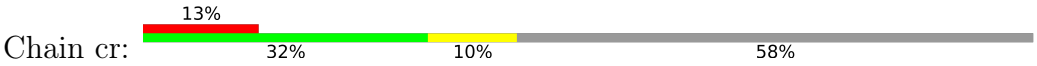


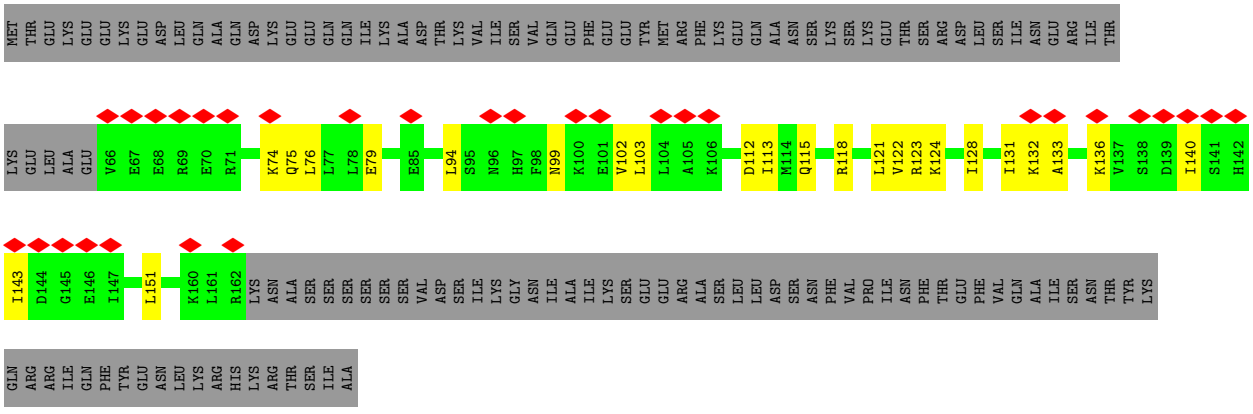
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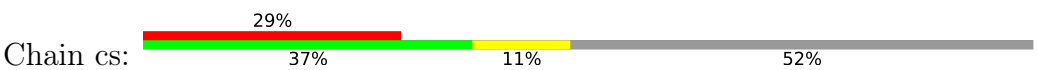


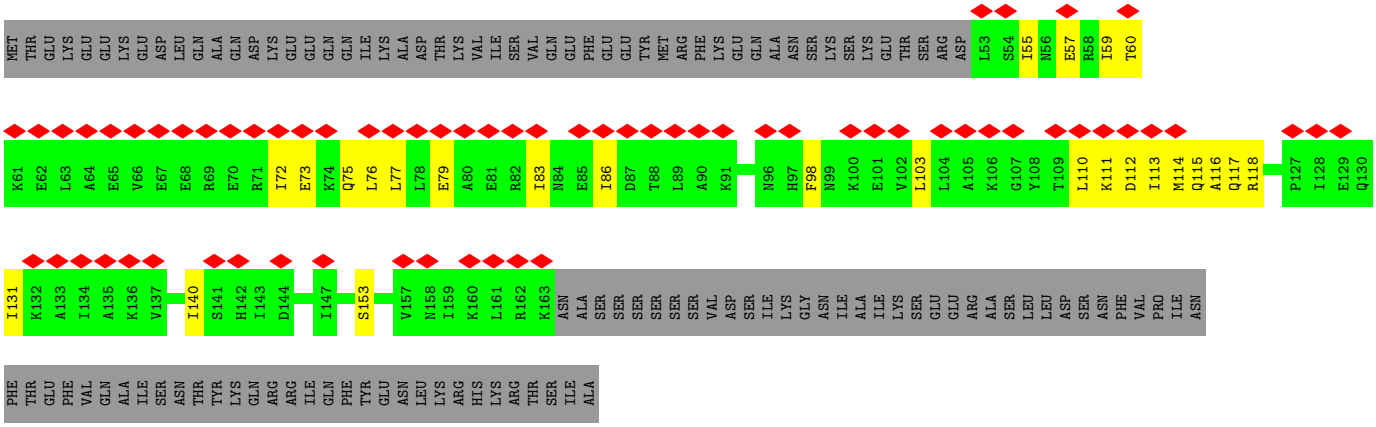
• Molecule 5: Scaffold protein





• Molecule 5: Scaffold protein

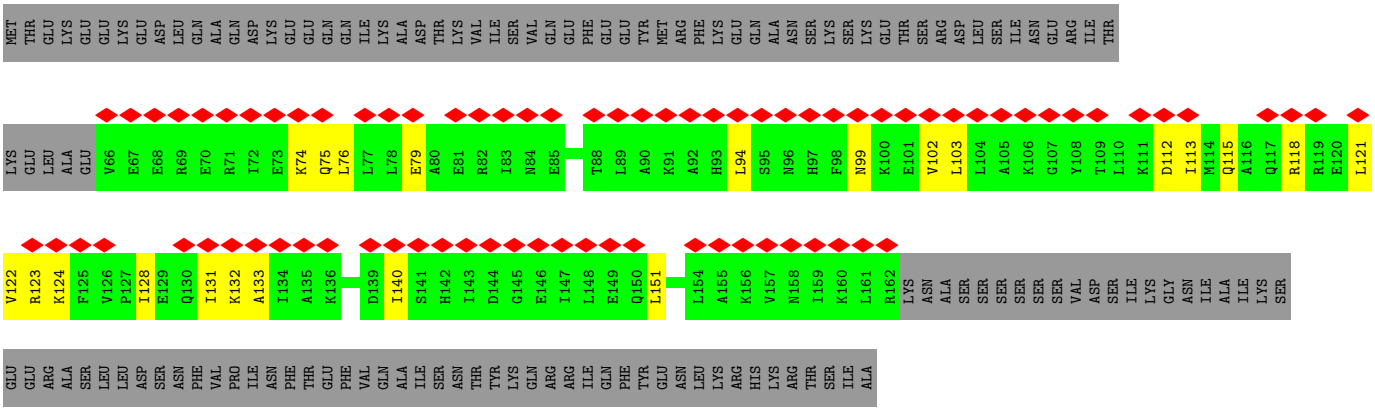




• Molecule 5: Scaffold protein

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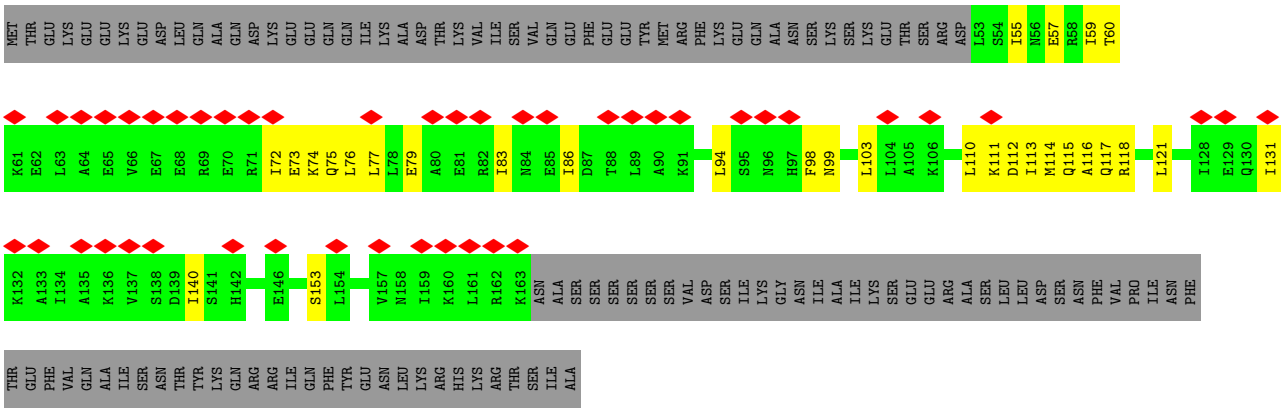




• Molecule 5: Scaffold protein

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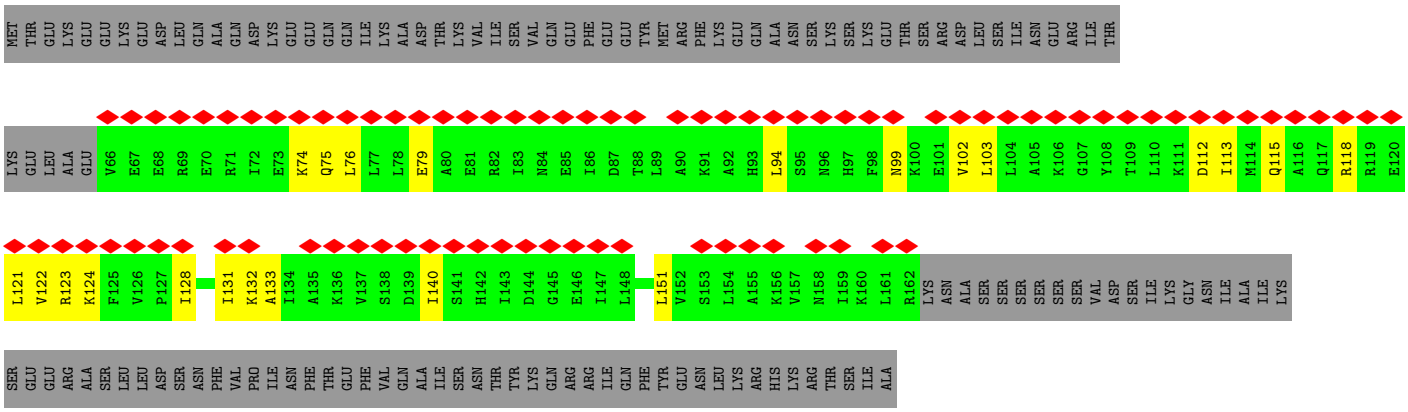




• Molecule 5: Scaffold protein

Chain cv:

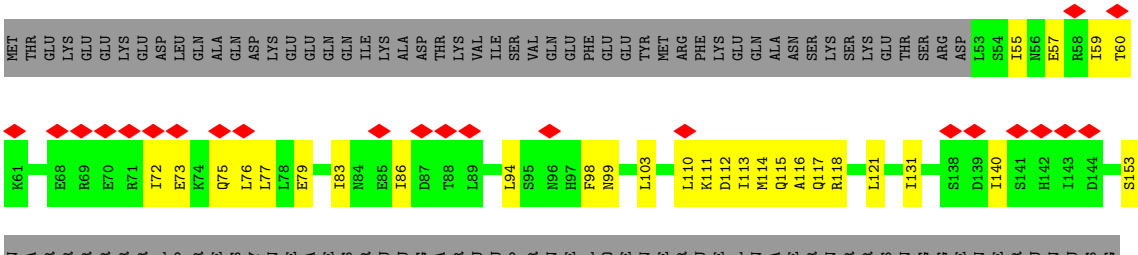




• Molecule 5: Scaffold protein

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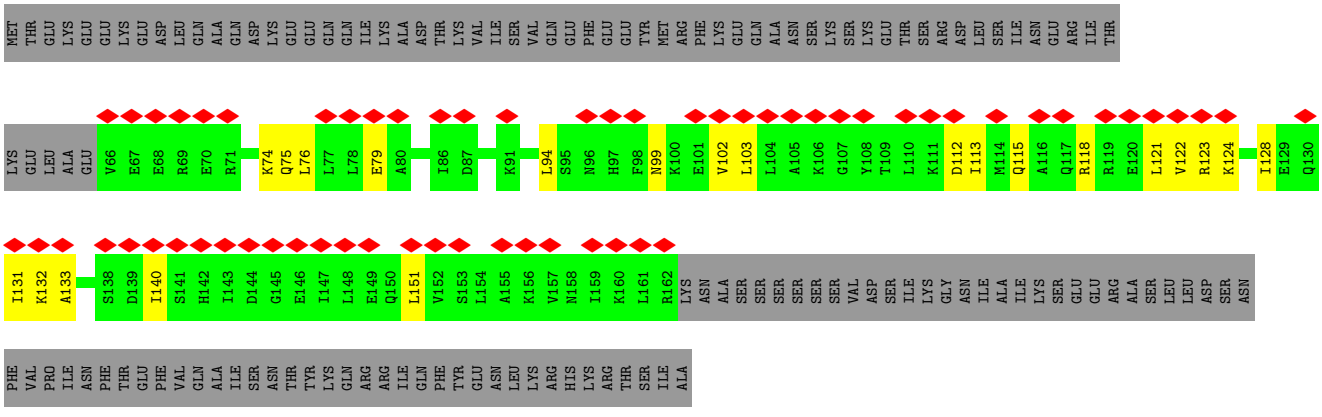




• Molecule 5: Scaffold protein

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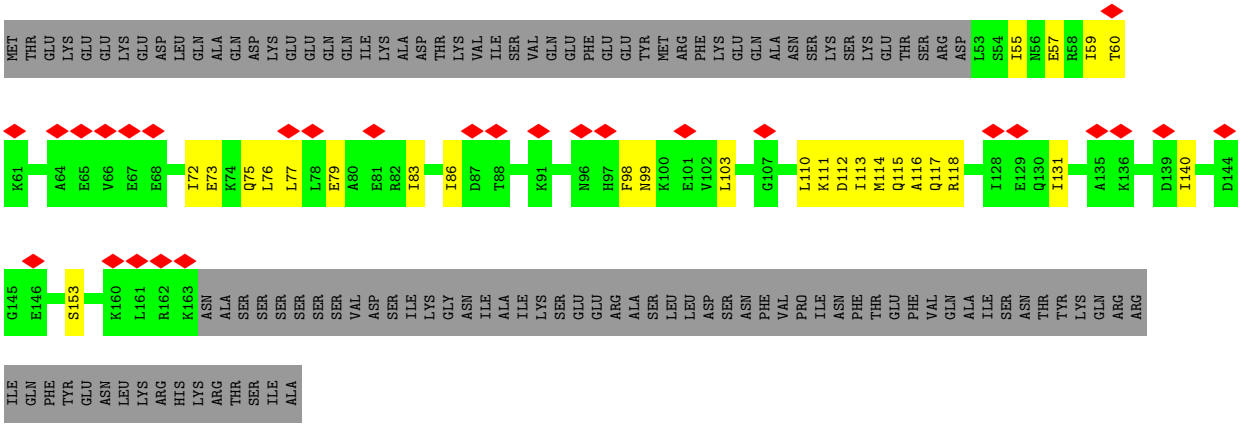




• Molecule 5: Scaffold protein

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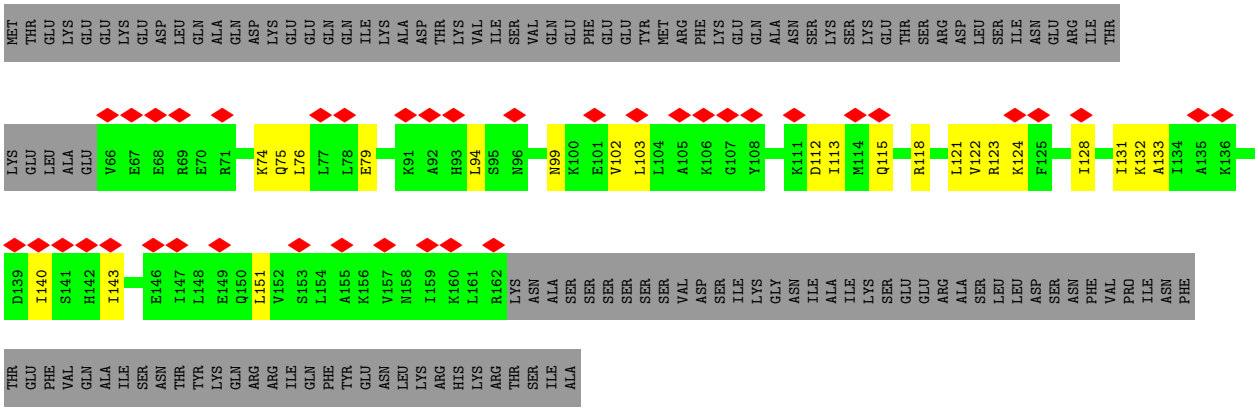




• Molecule 5: Scaffold protein

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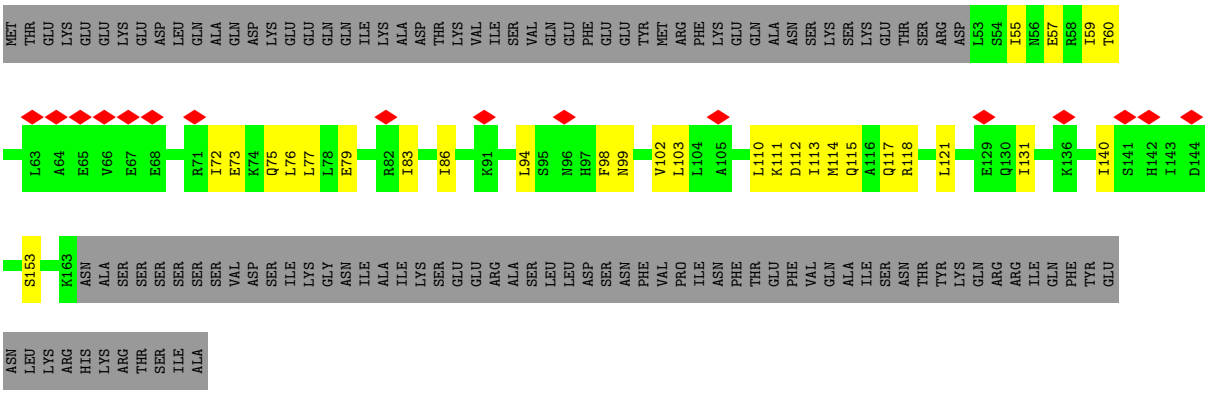




• Molecule 5: Scaffold protein

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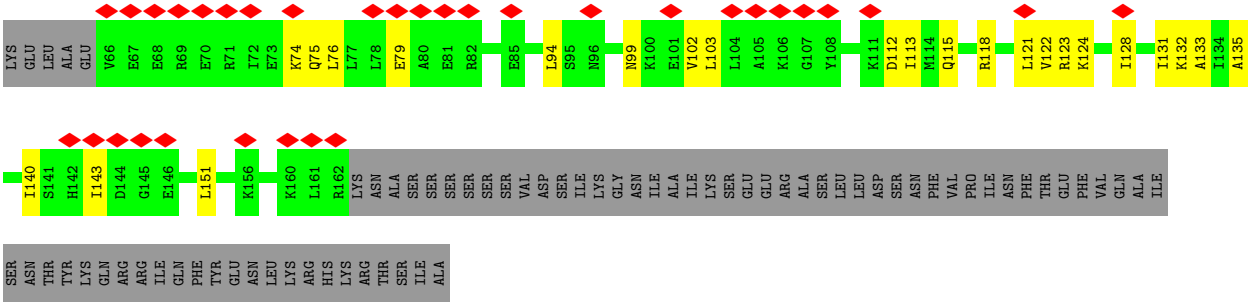


• Molecule 5: Scaffold protein

Chain dB:



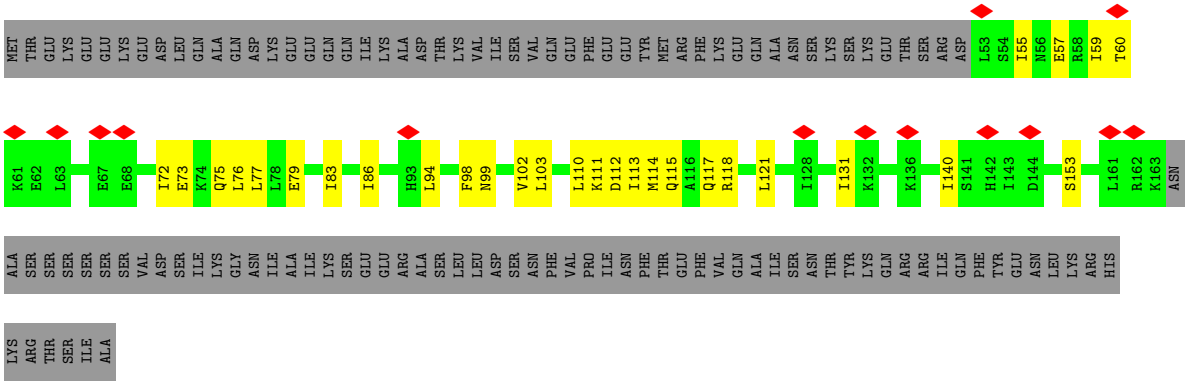




• Molecule 5: Scaffold protein

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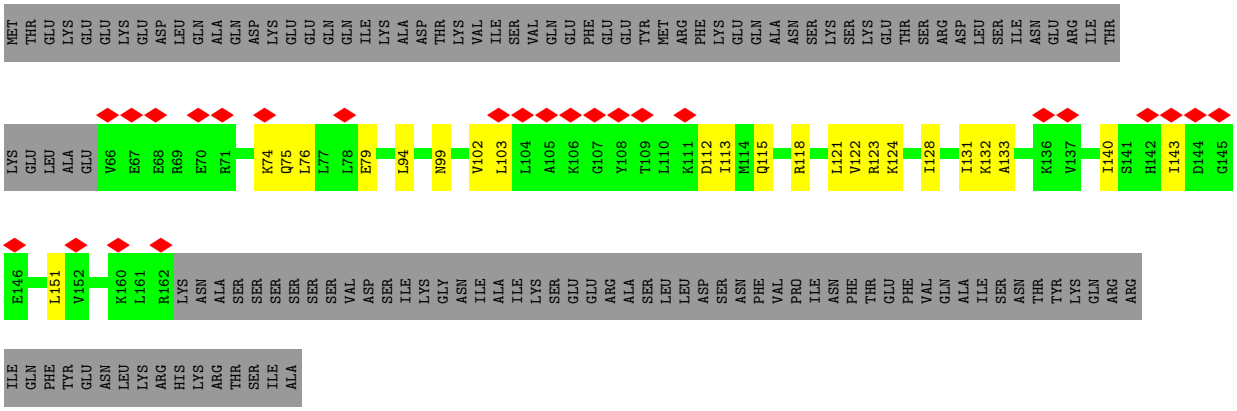




• Molecule 5: Scaffold protein

Chain dD:

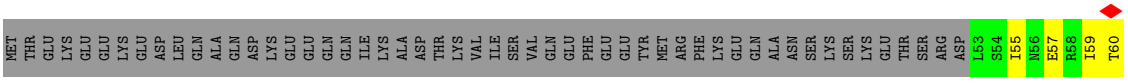


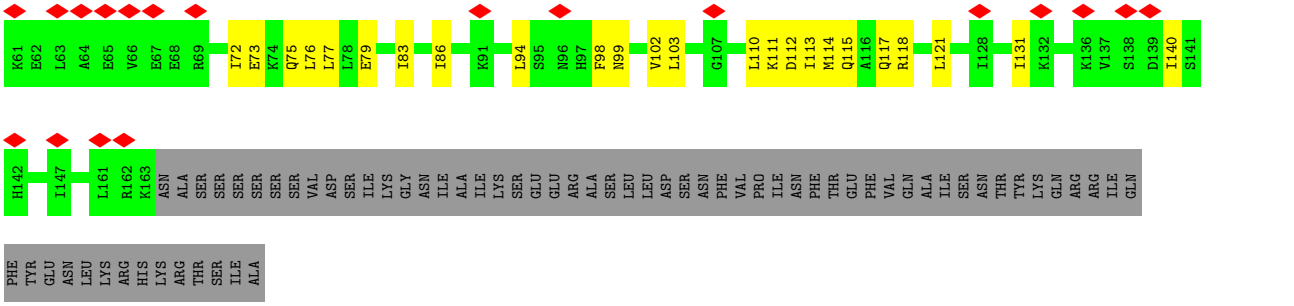


• Molecule 5: Scaffold protein

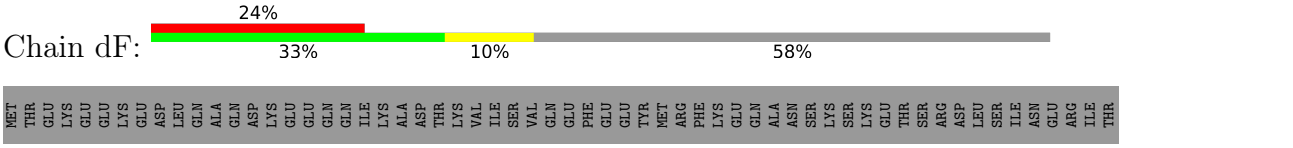
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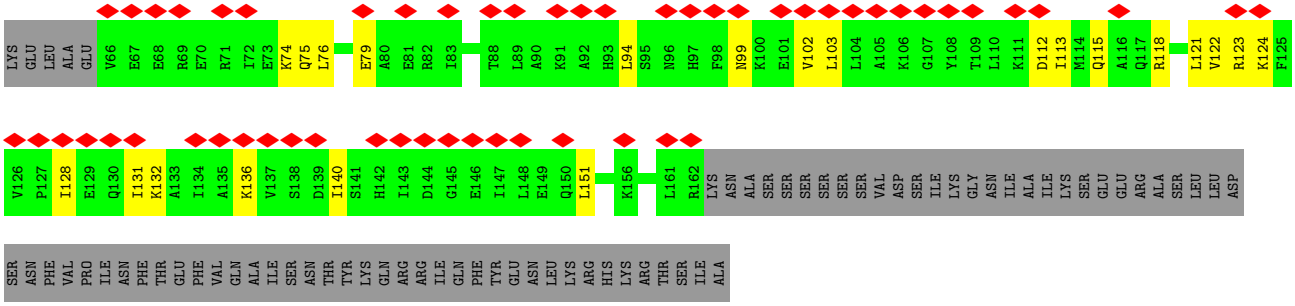




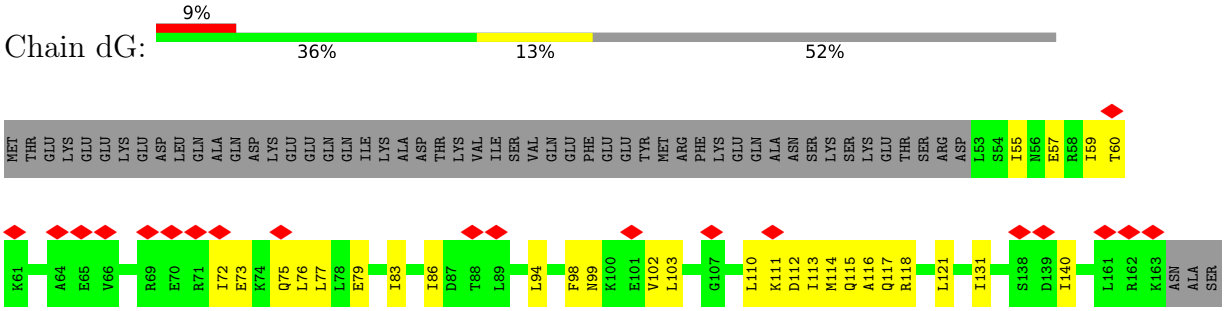


• Molecule 5: Scaffold protein

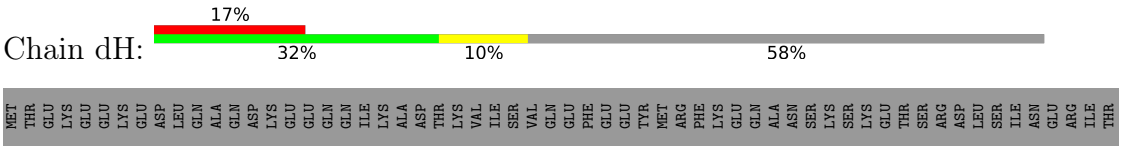


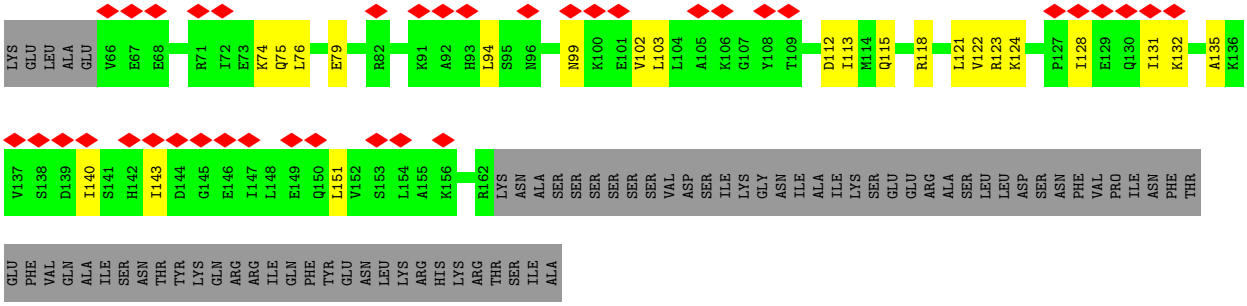


• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein



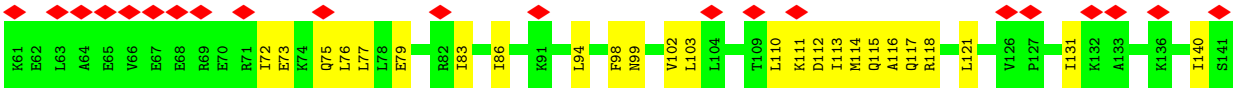


• Molecule 5: Scaffold protein

Chain dI:





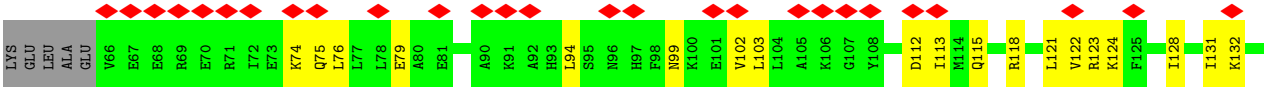


• Molecule 5: Scaffold protein

Chain dJ:



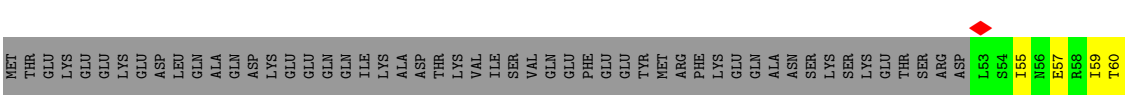


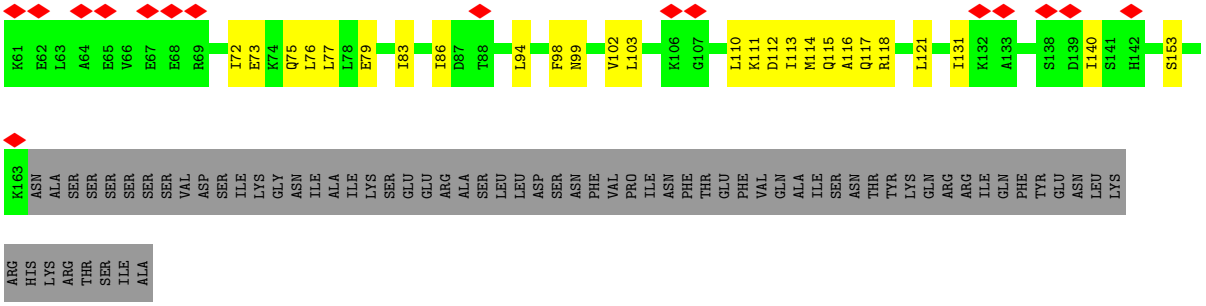


• Molecule 5: Scaffold protein

Chain dK:



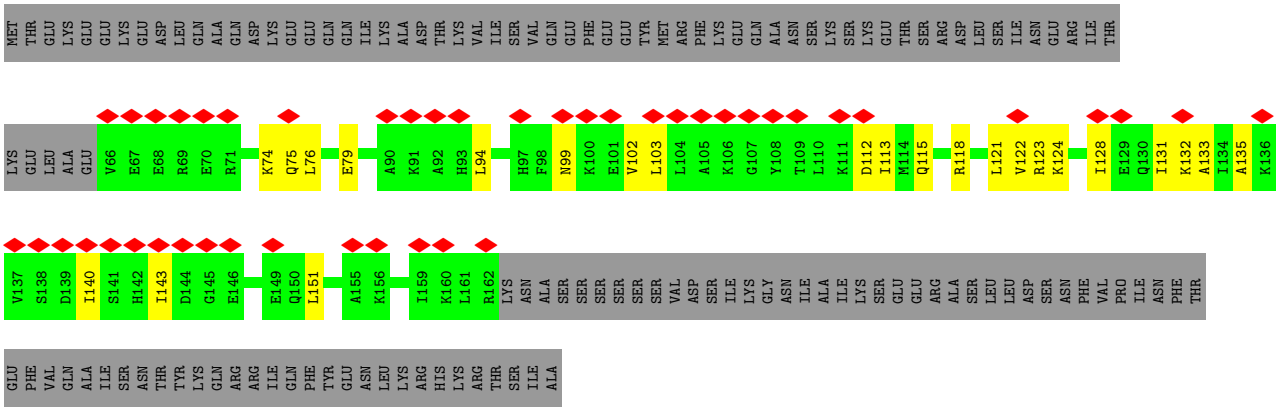




- Molecule 5: Scaffold protein

Chain dL:

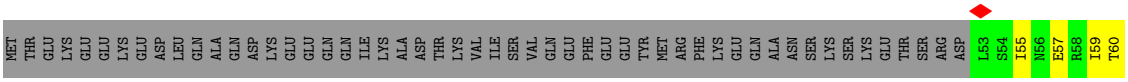


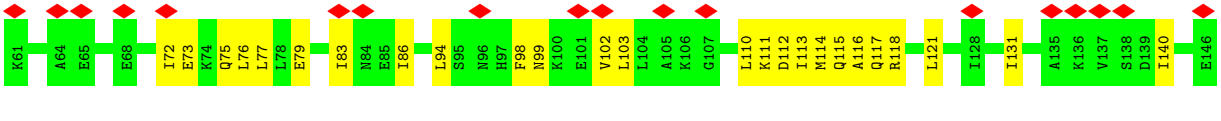


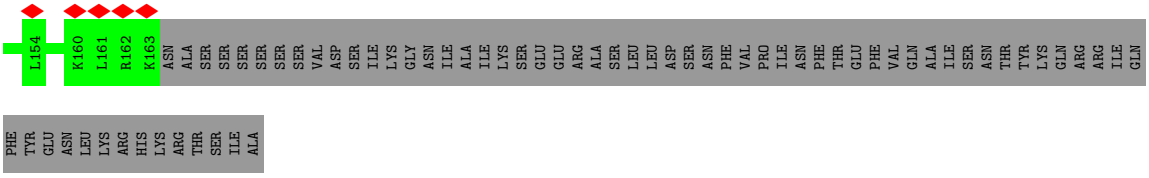
- Molecule 5: Scaffold protein

Chain dM:





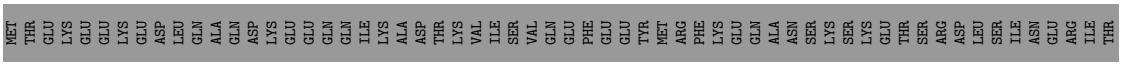


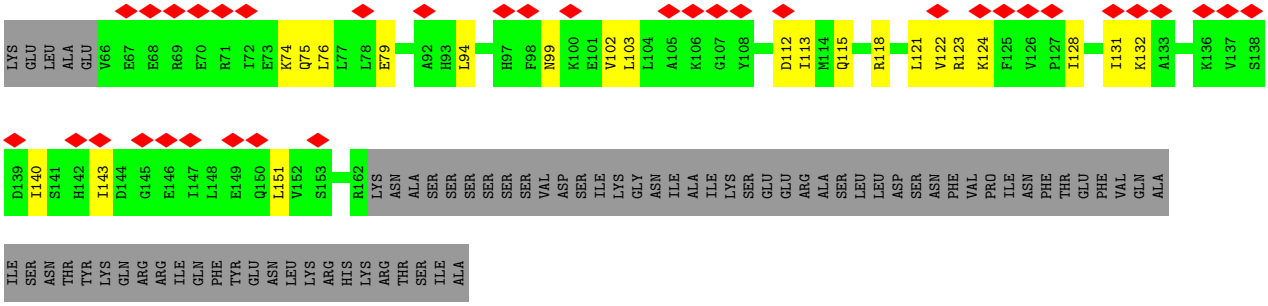


- Molecule 5: Scaffold protein

Chain dN:



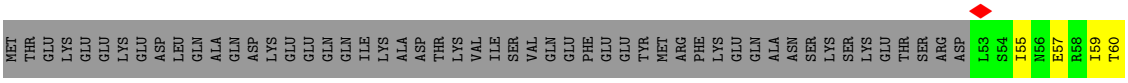


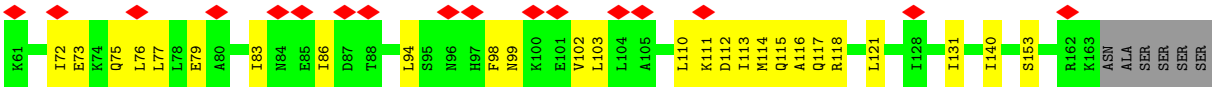


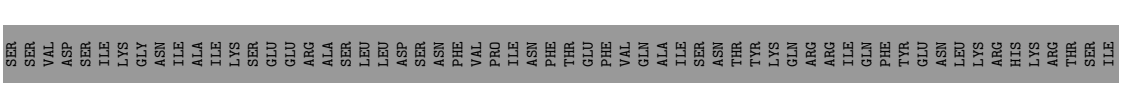
• Molecule 5: Scaffold protein

Chain dO:







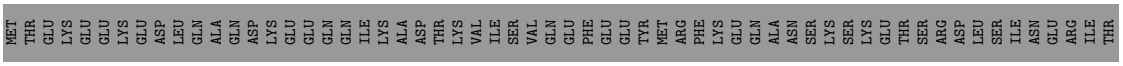


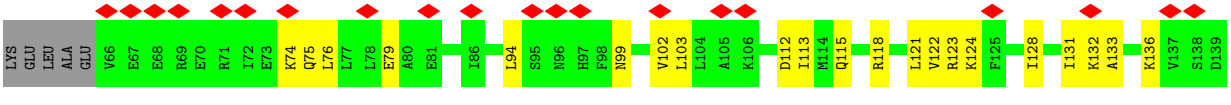


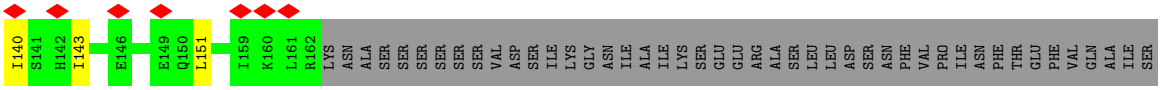
• Molecule 5: Scaffold protein

Chain dP:









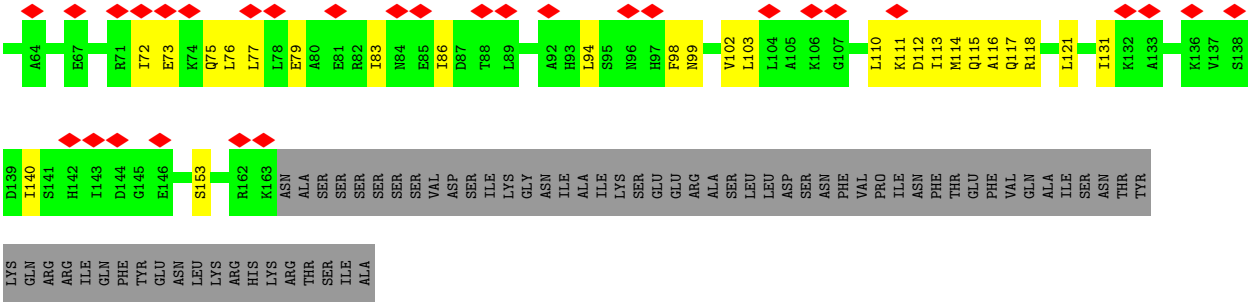


• Molecule 5: Scaffold protein

Chain dQ:





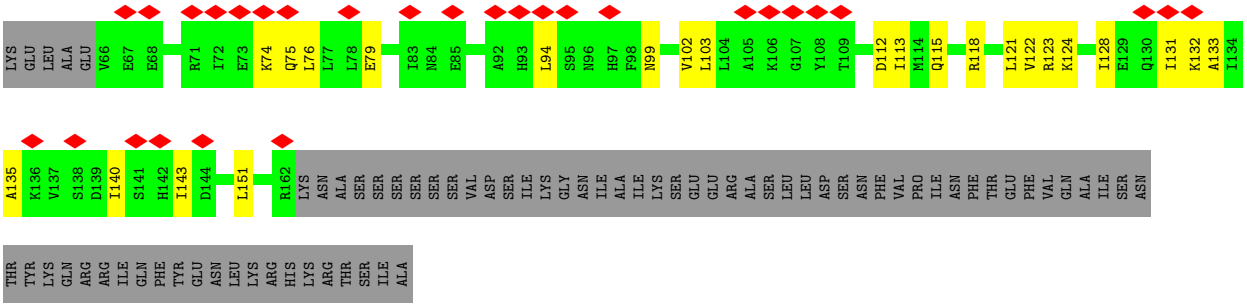


• Molecule 5: Scaffold protein

Chain dR:



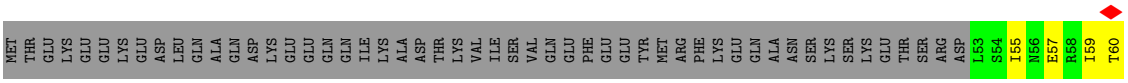


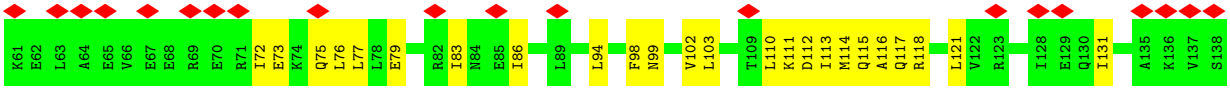


• Molecule 5: Scaffold protein

Chain dS:







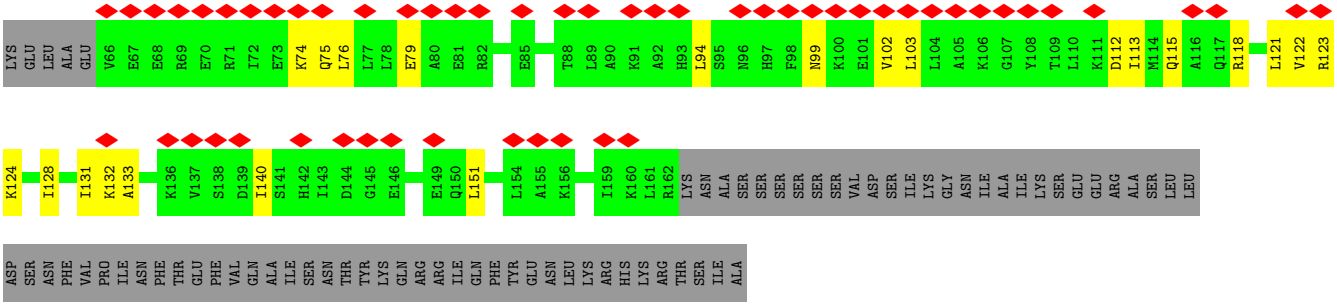


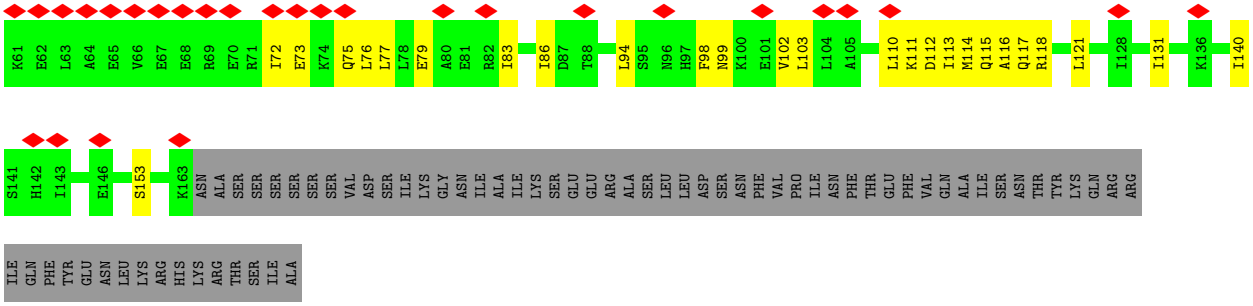
• Molecule 5: Scaffold protein

Chain dT:







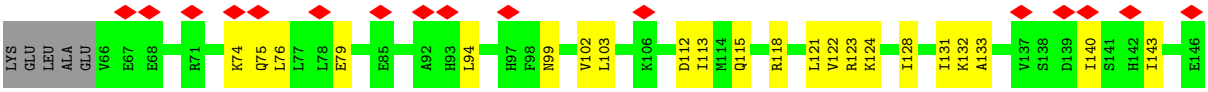


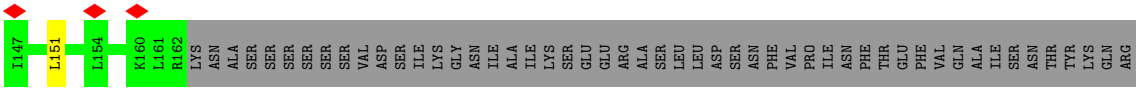
• Molecule 5: Scaffold protein

Chain dX:





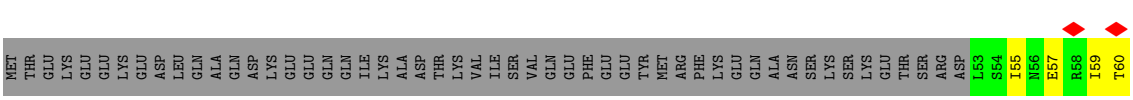


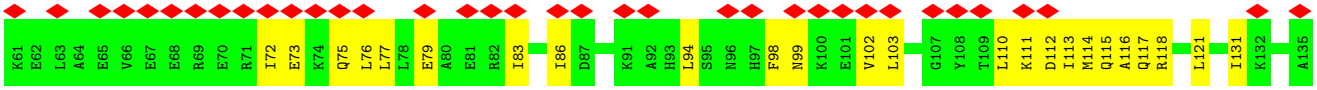


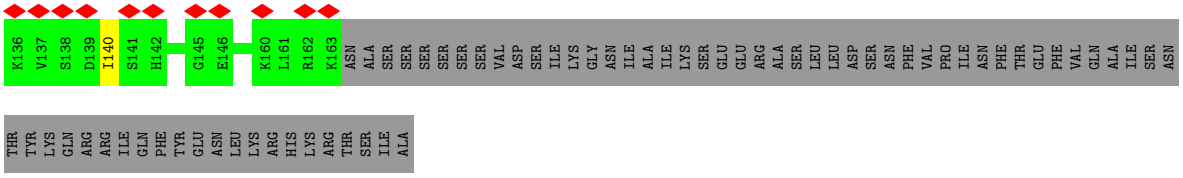
• Molecule 5: Scaffold protein

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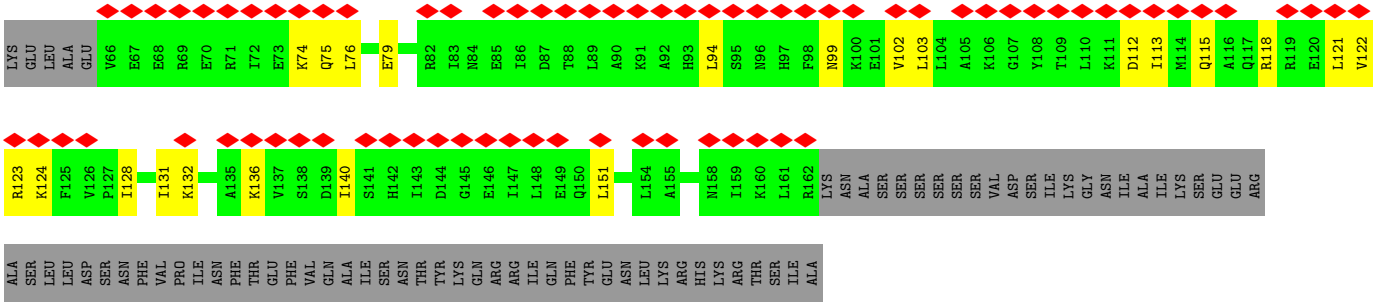


• Molecule 5: Scaffold protein

Chain dZ:



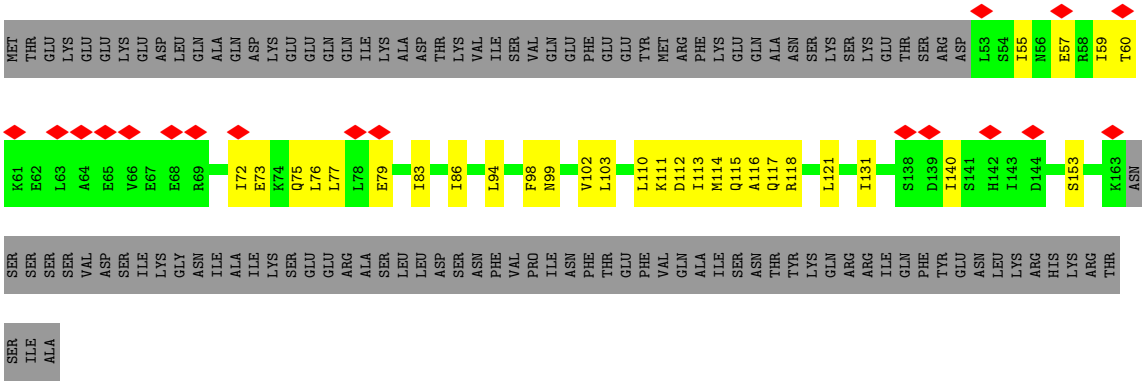




• Molecule 5: Scaffold protein

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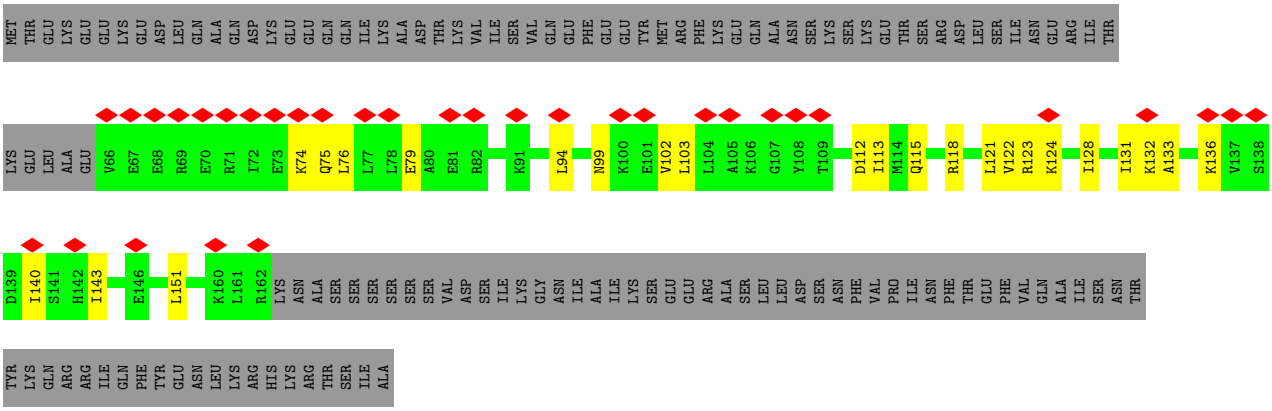




• Molecule 5: Scaffold protein

Chain db:

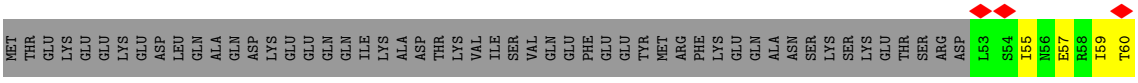


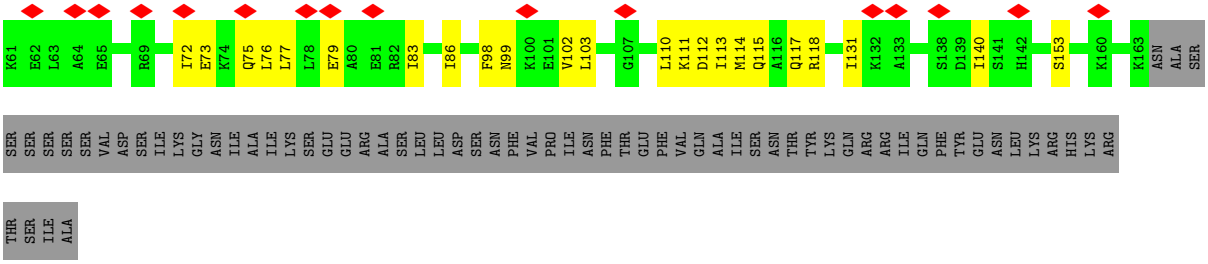


• Molecule 5: Scaffold protein

Chain dc:



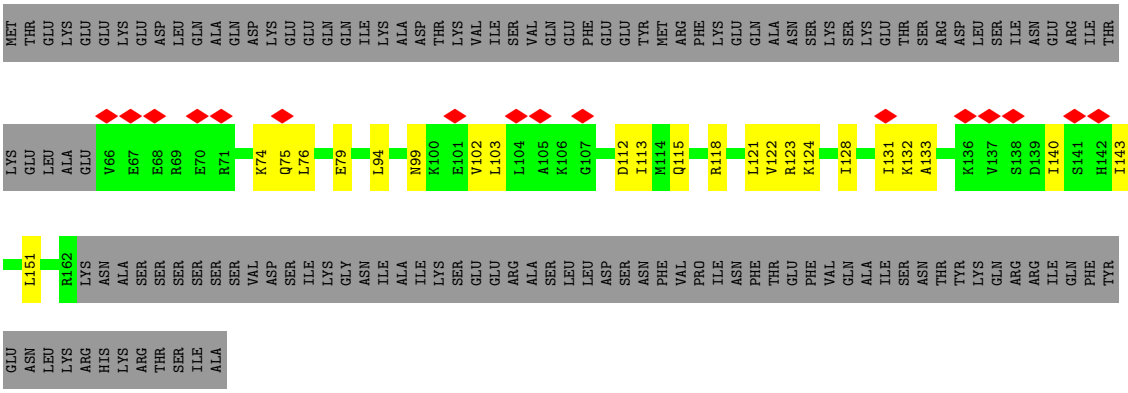




• Molecule 5: Scaffold protein

Chain dd:

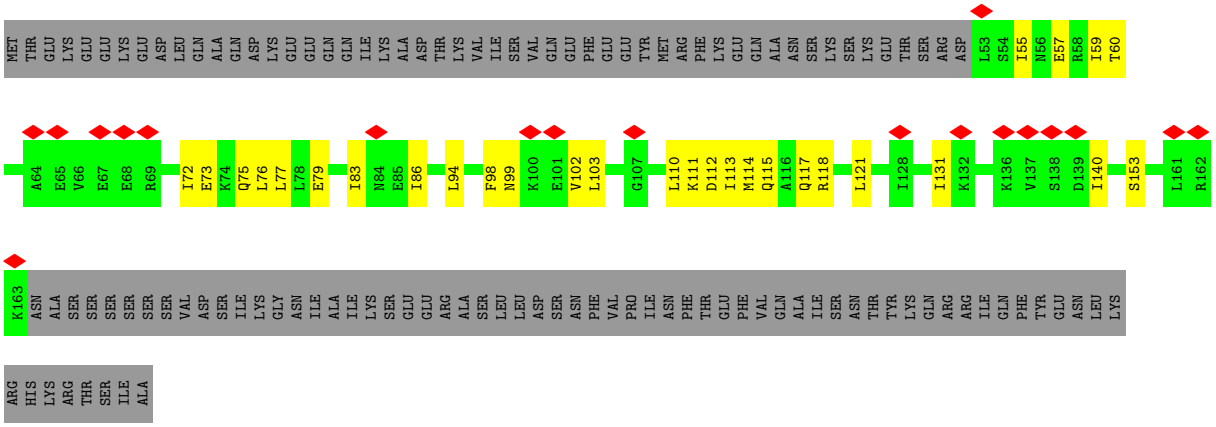




• Molecule 5: Scaffold protein

Chain de:

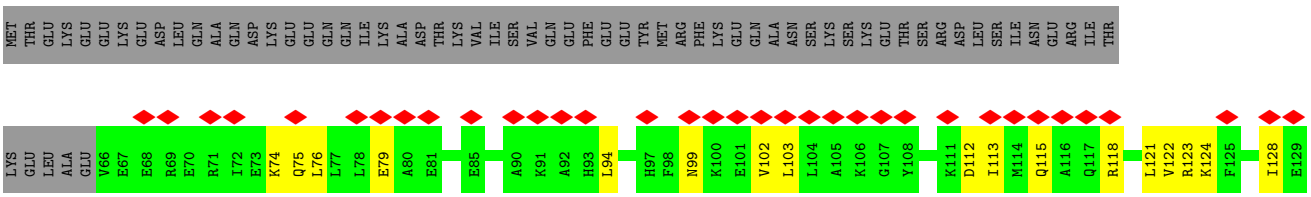


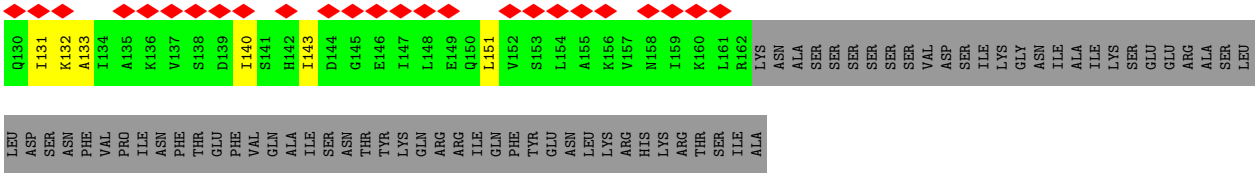


• Molecule 5: Scaffold protein

Chain df:



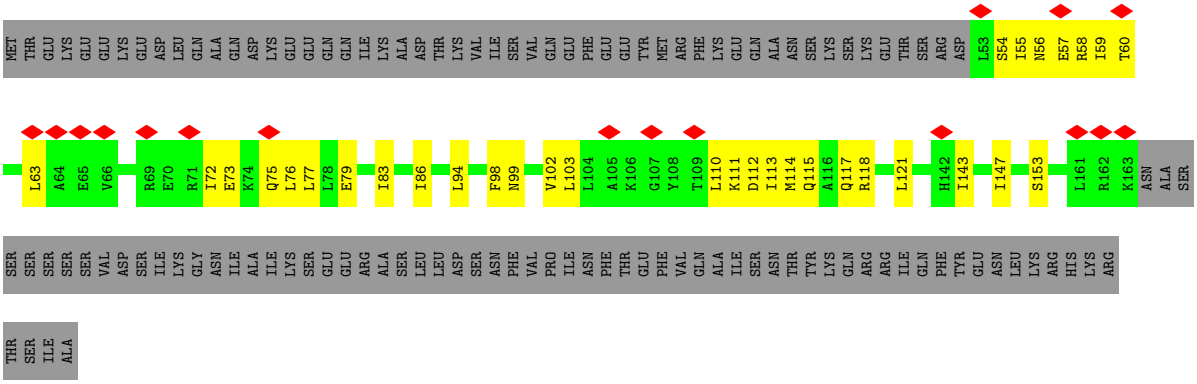




• Molecule 5: Scaffold protein

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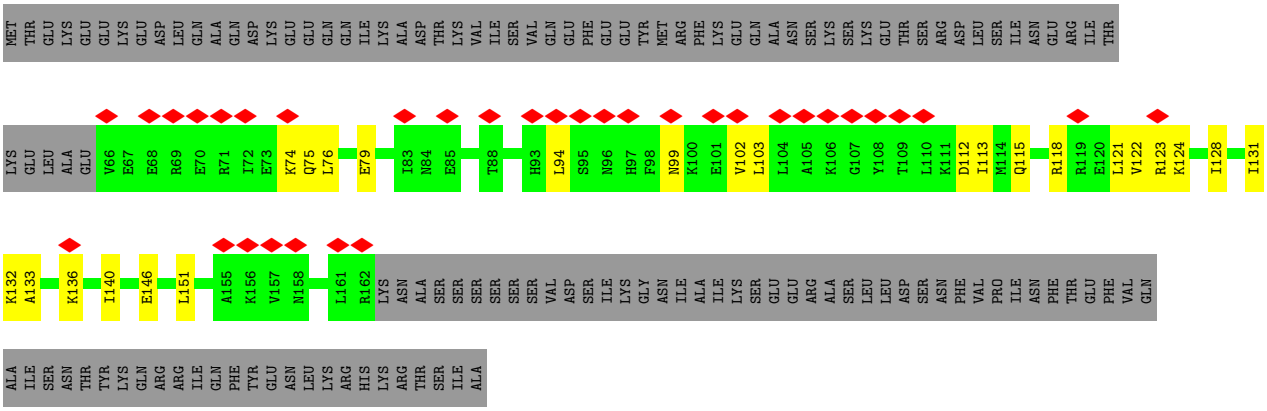




• Molecule 5: Scaffold protein

Chain dh:

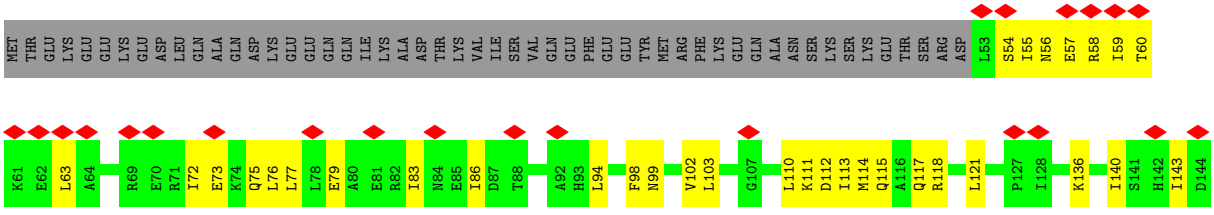


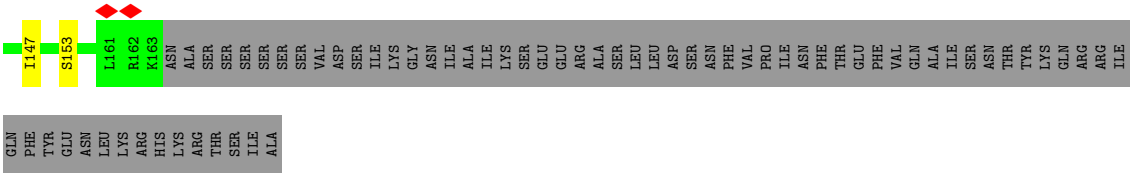


• Molecule 5: Scaffold protein

Chain di:



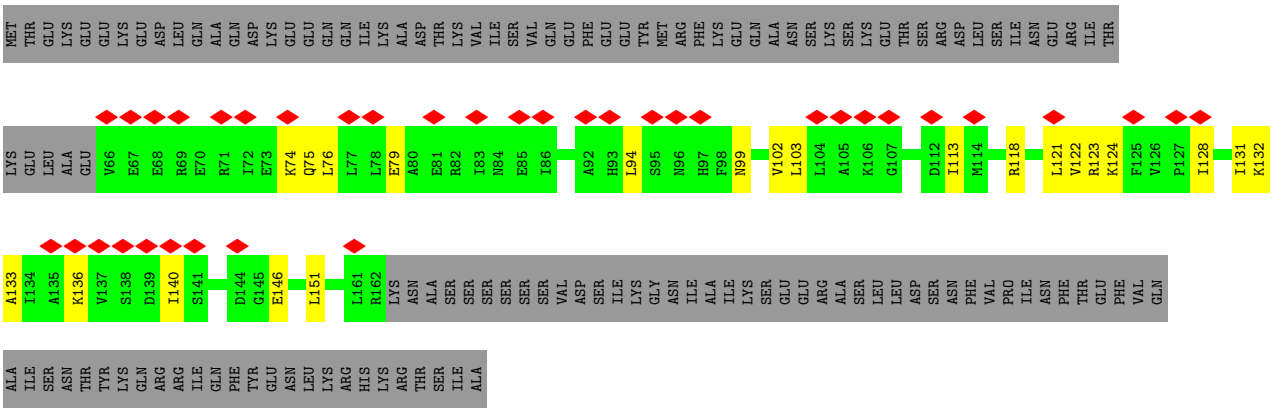




• Molecule 5: Scaffold protein

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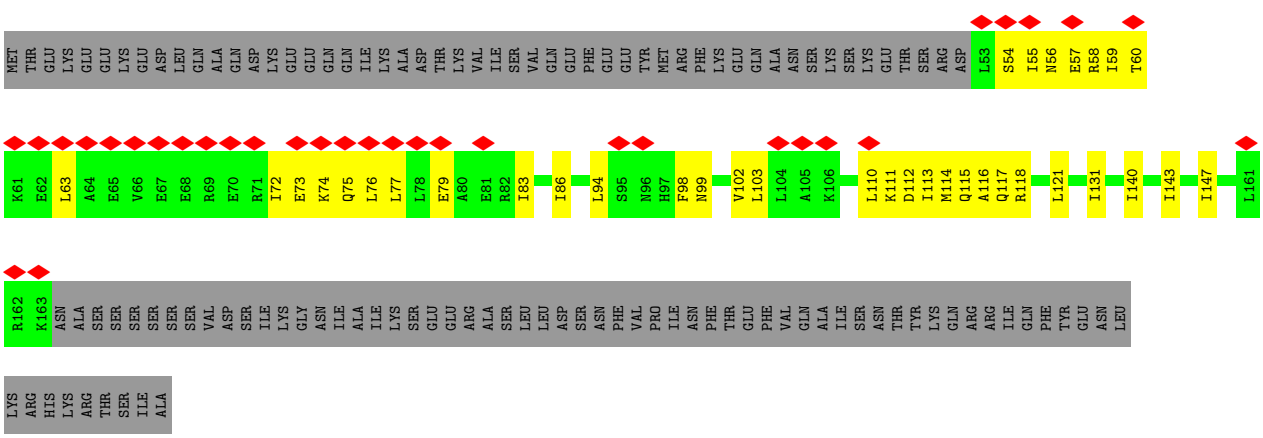




• Molecule 5: Scaffold protein

Chain dk:

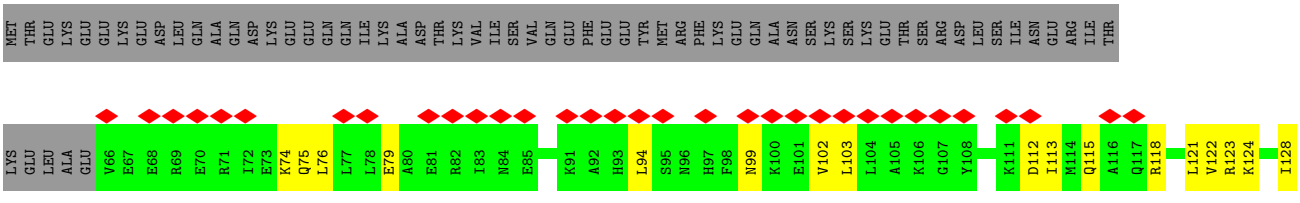


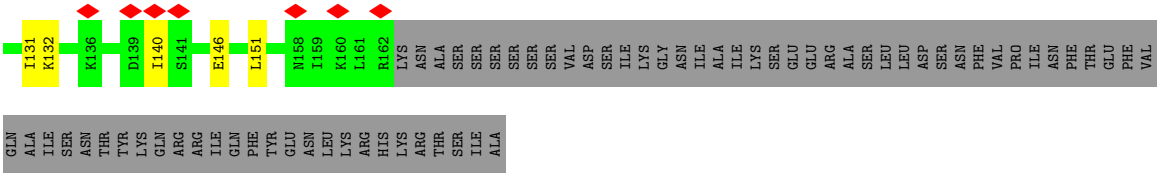


• Molecule 5: Scaffold protein

Chain dl:



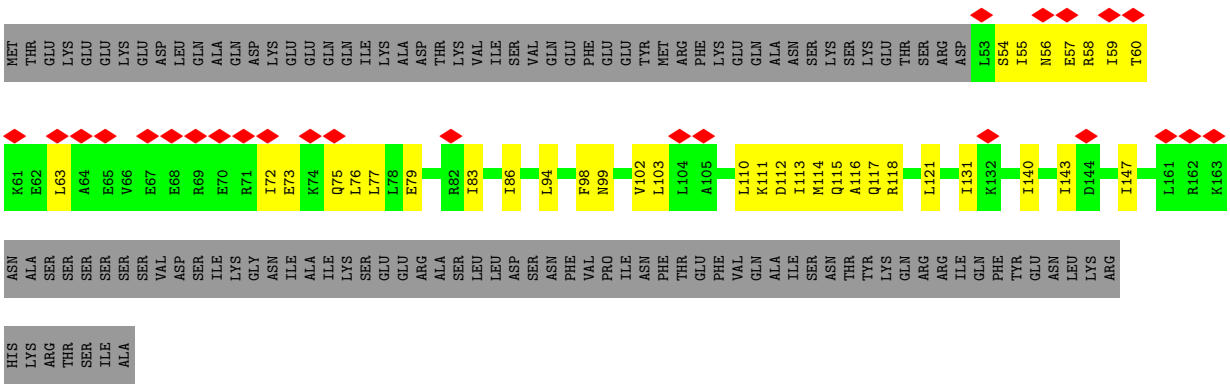




• Molecule 5: Scaffold protein

Chain dm:

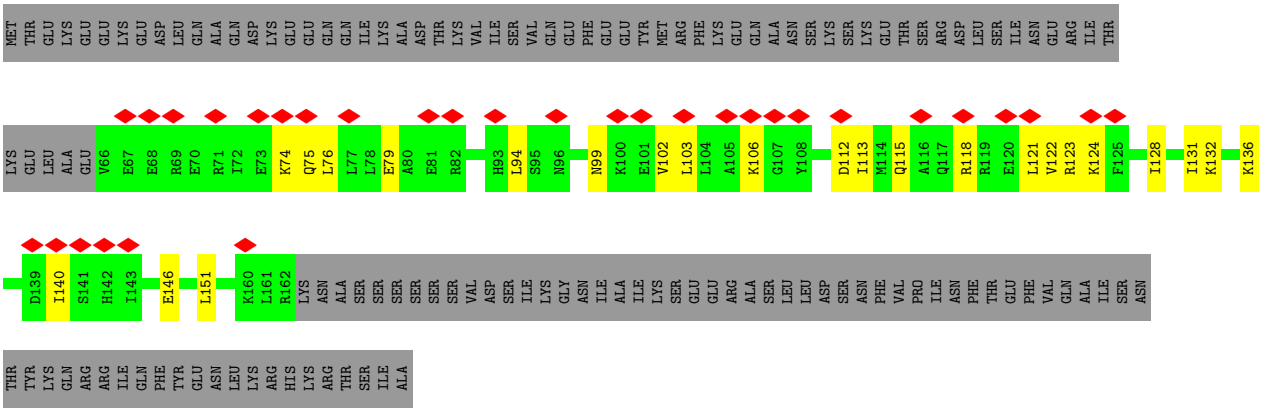




• Molecule 5: Scaffold protein

Chain dn:

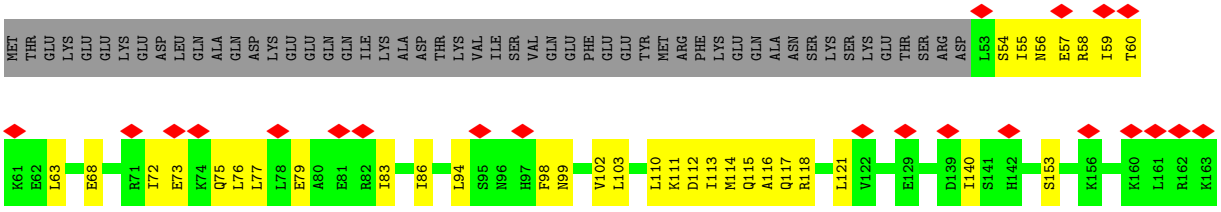


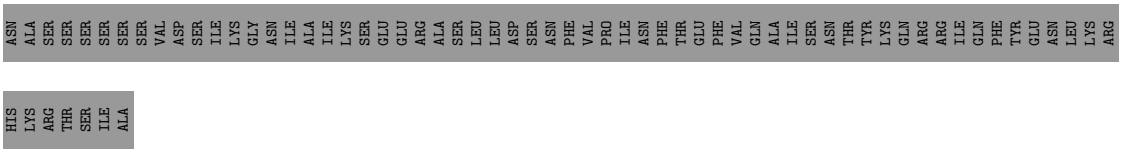


• Molecule 5: Scaffold protein

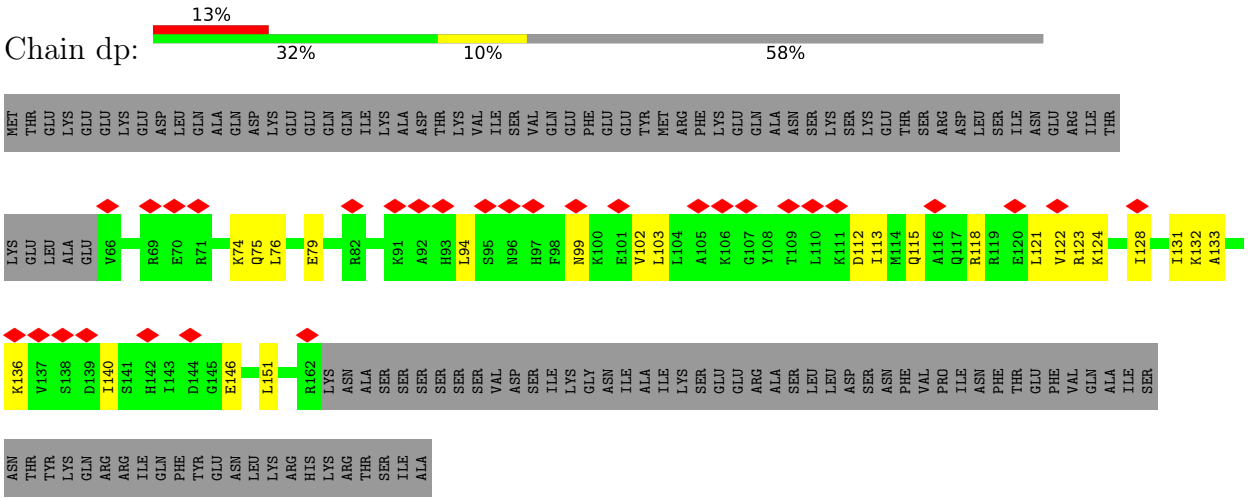
Chain do:



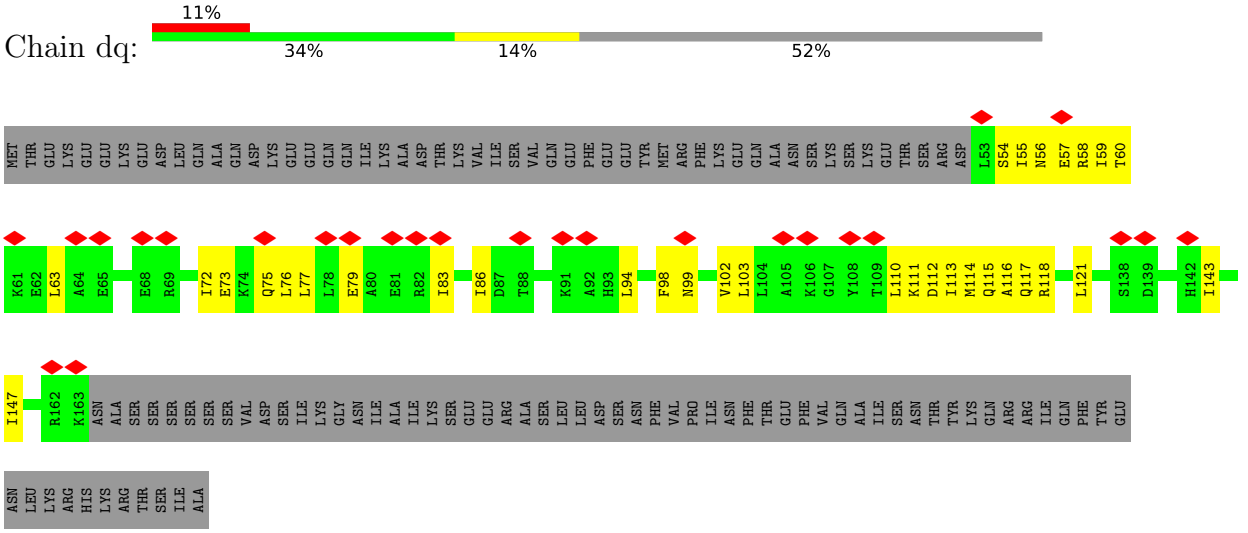




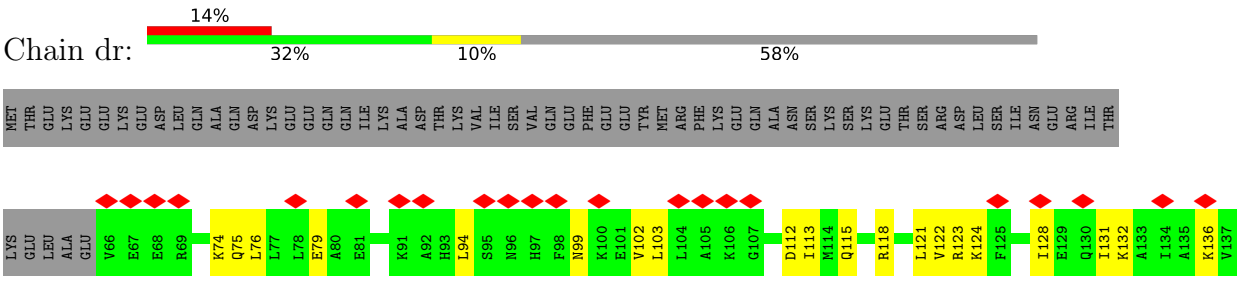
• Molecule 5: Scaffold protein

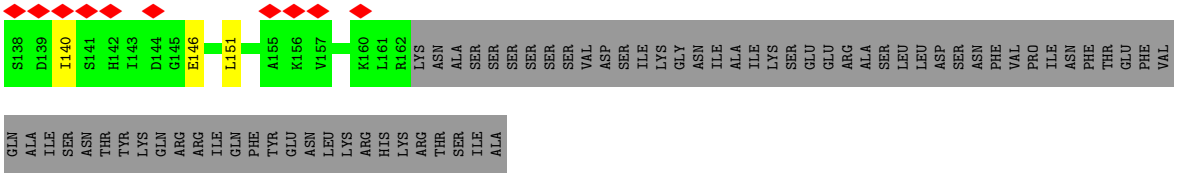


• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

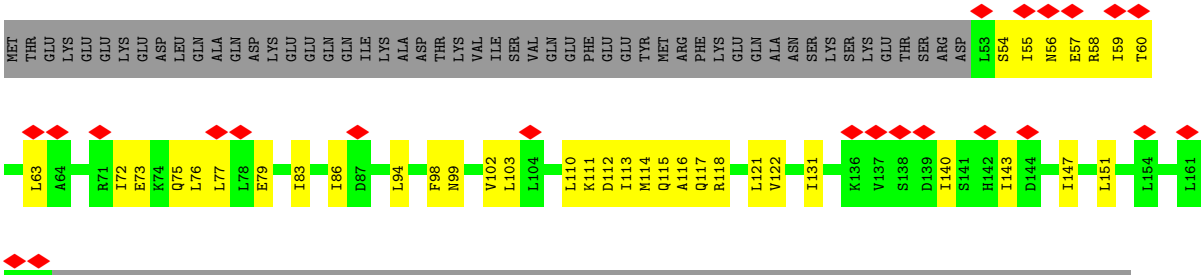




• Molecule 5: Scaffold protein

Chain ds:

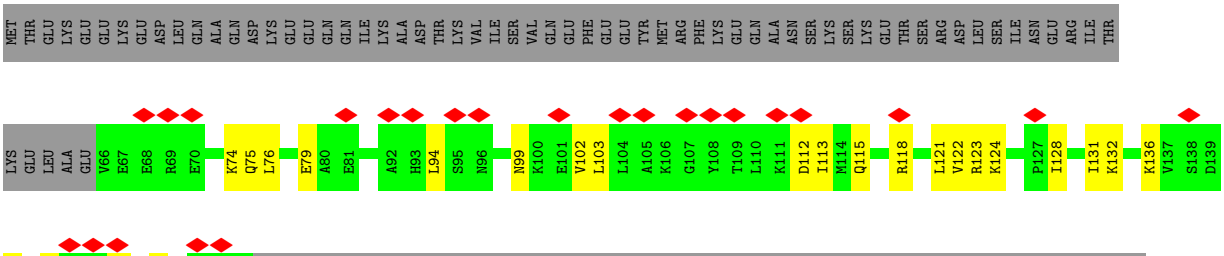




• Molecule 5: Scaffold protein

Chain dt:

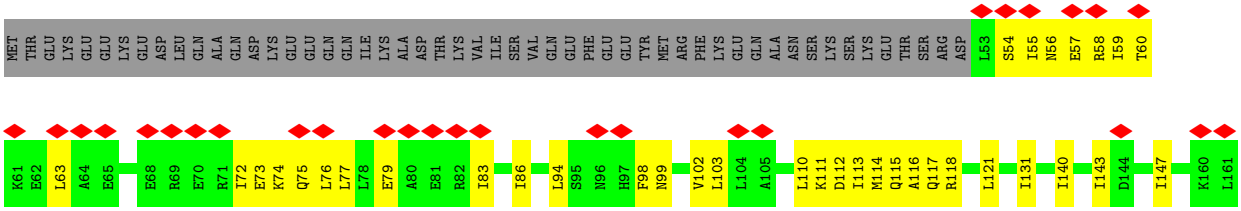


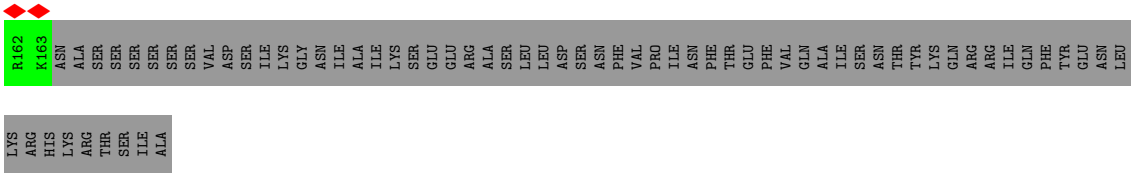


• Molecule 5: Scaffold protein

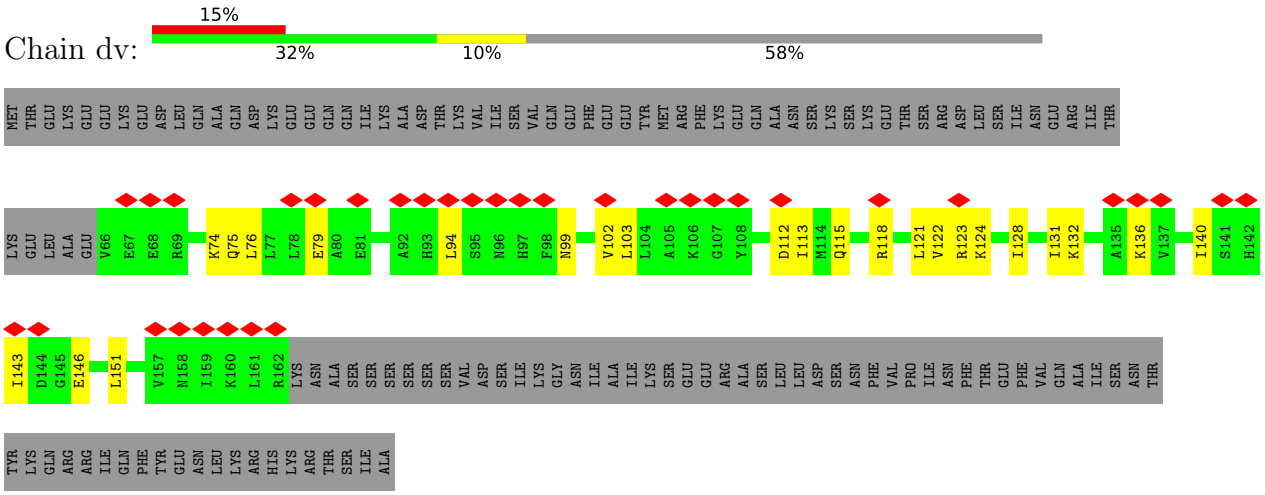
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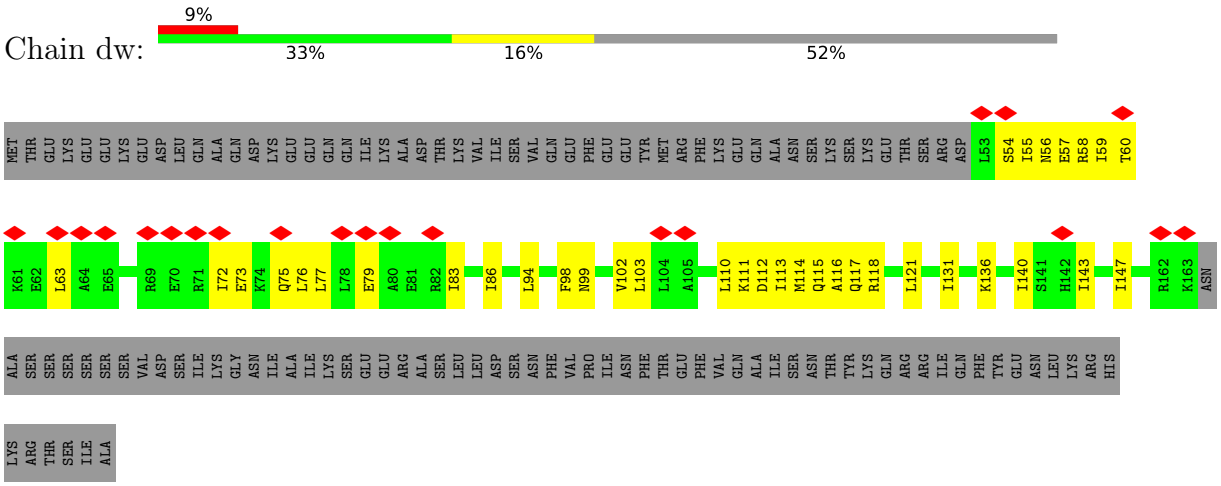




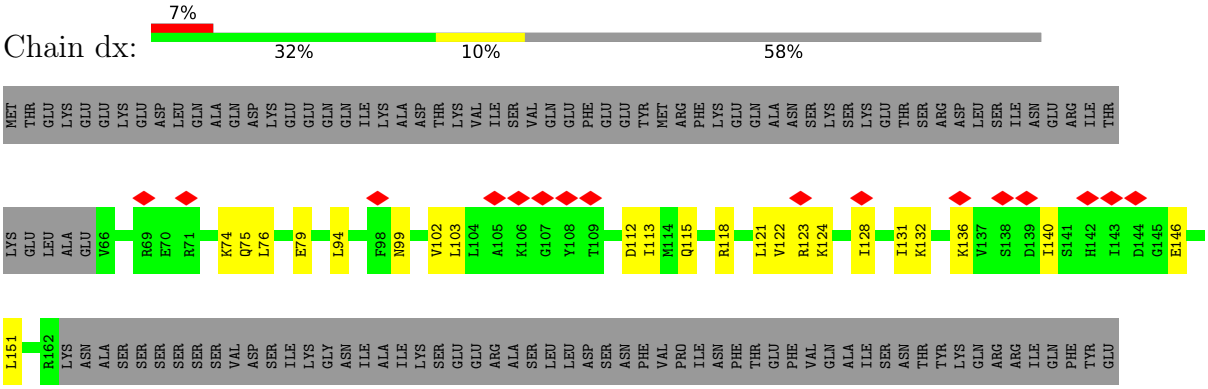
• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

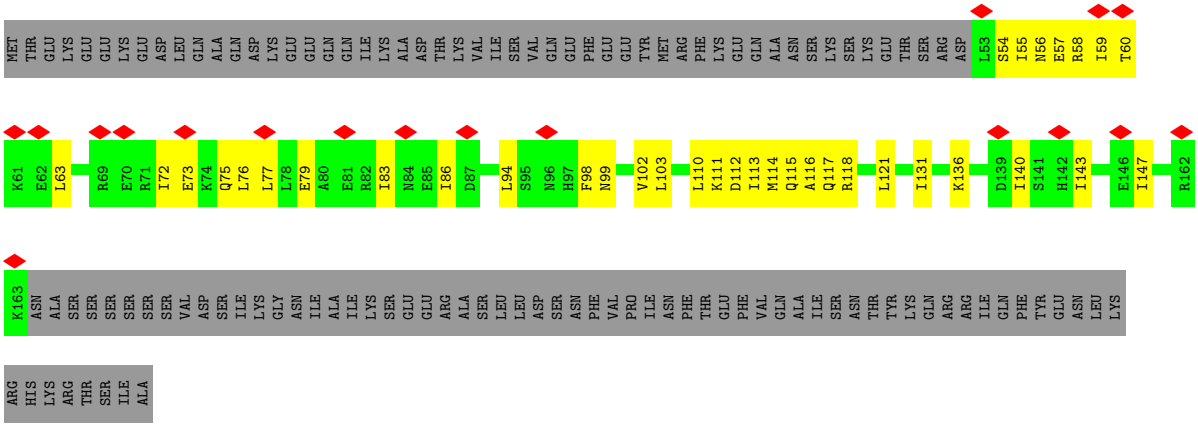




• Molecule 5: Scaffold protein

Chain dy:

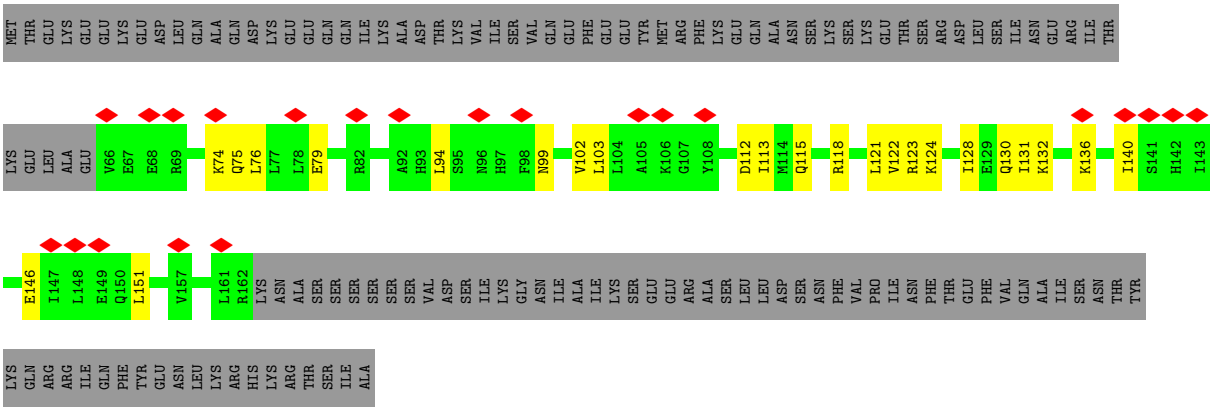




• Molecule 5: Scaffold protein

Chain dz:

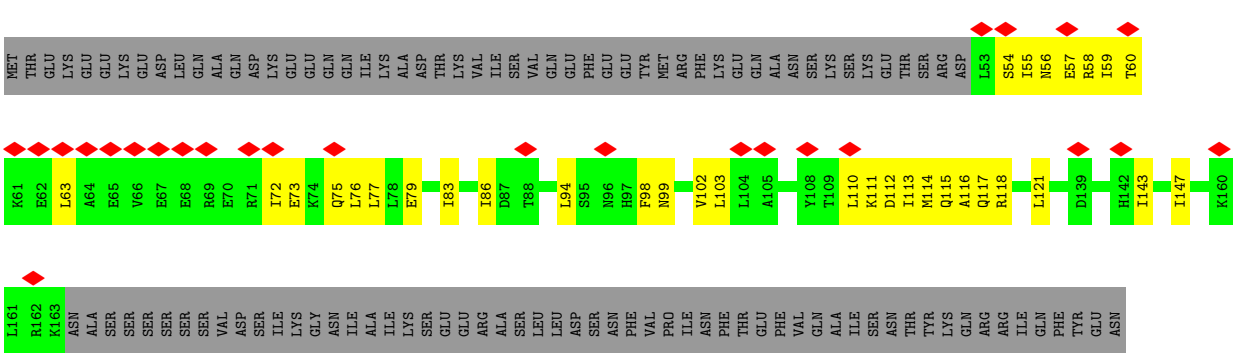




• Molecule 5: Scaffold protein

Chain eA:



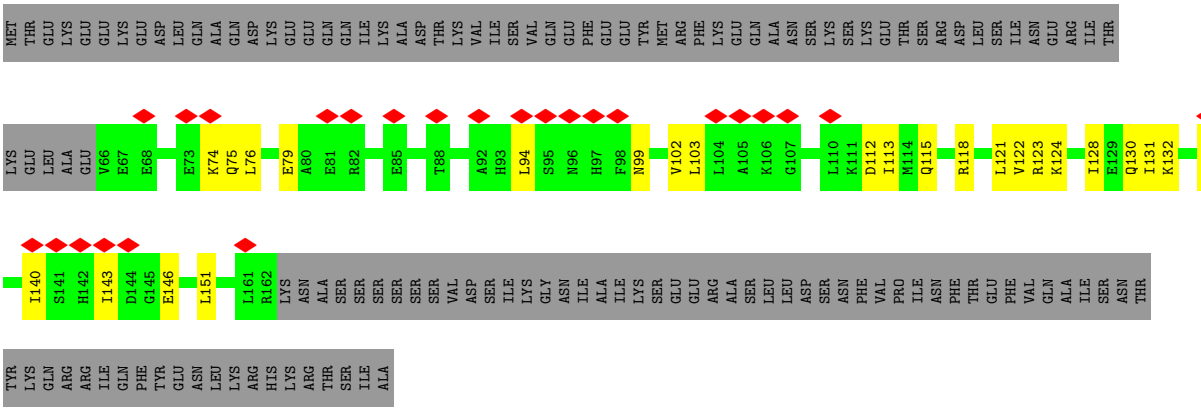




• Molecule 5: Scaffold protein

Chain eB:

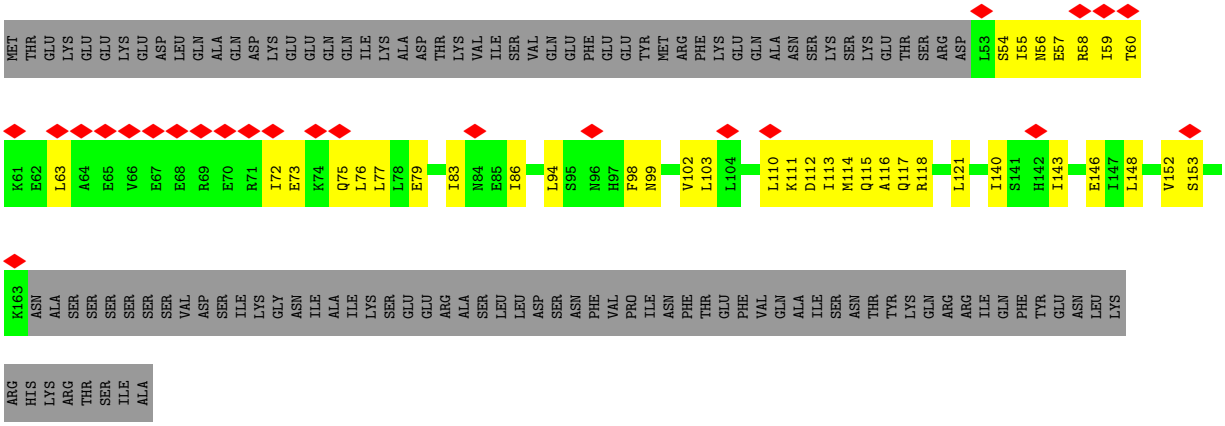




• Molecule 5: Scaffold protein

Chain eC:

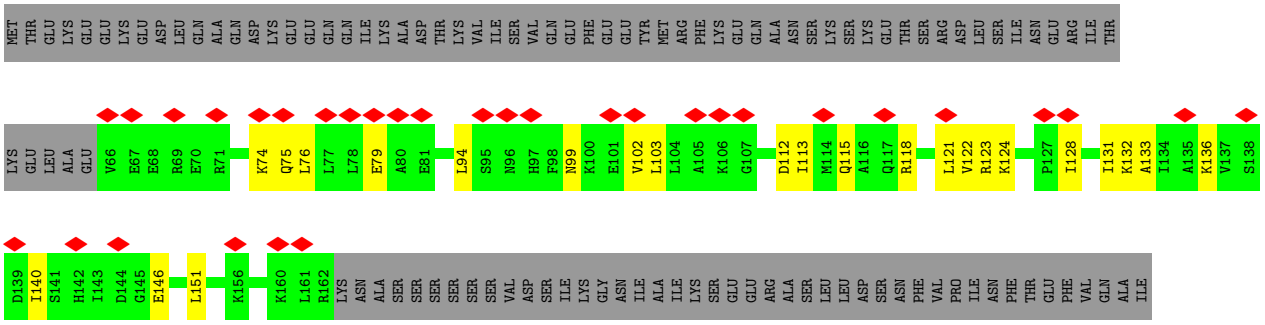




• Molecule 5: Scaffold protein

Chain eD:



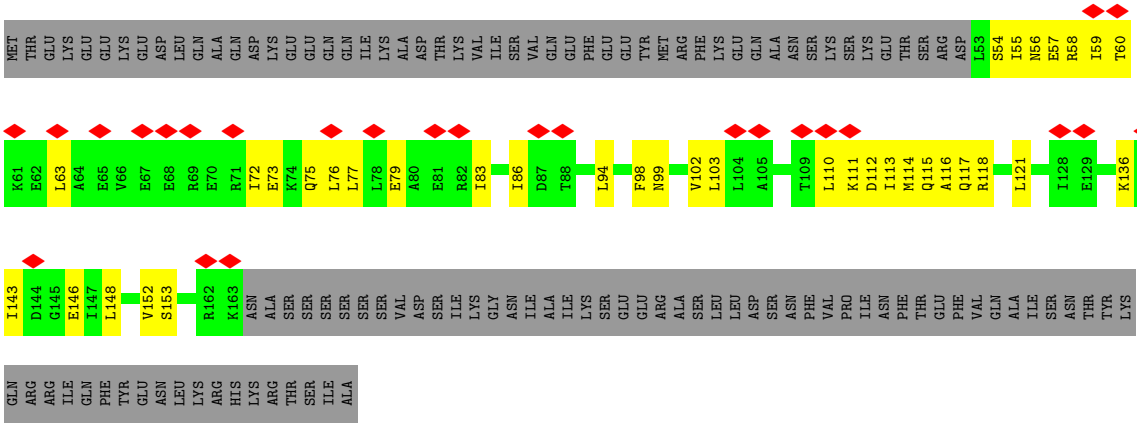




• Molecule 5: Scaffold protein

Chain eE:

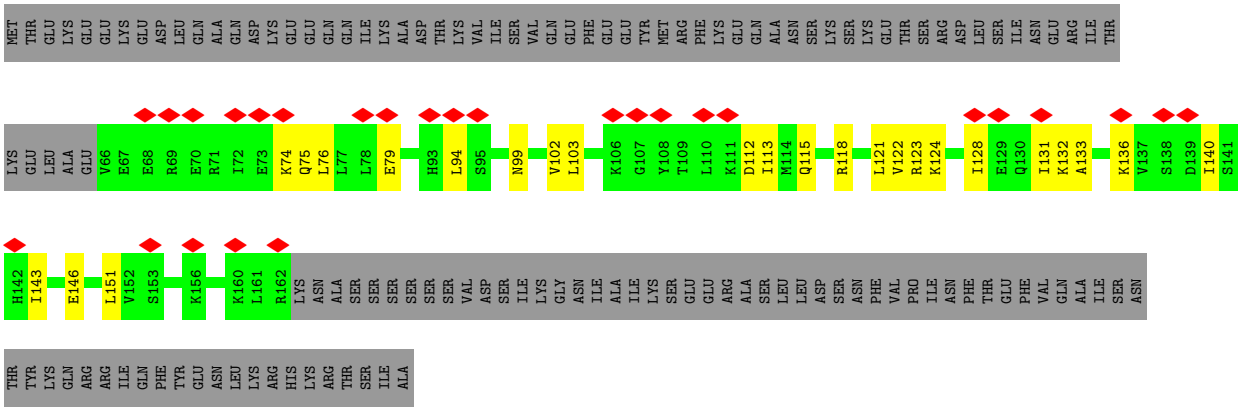




• Molecule 5: Scaffold protein

Chain eF:

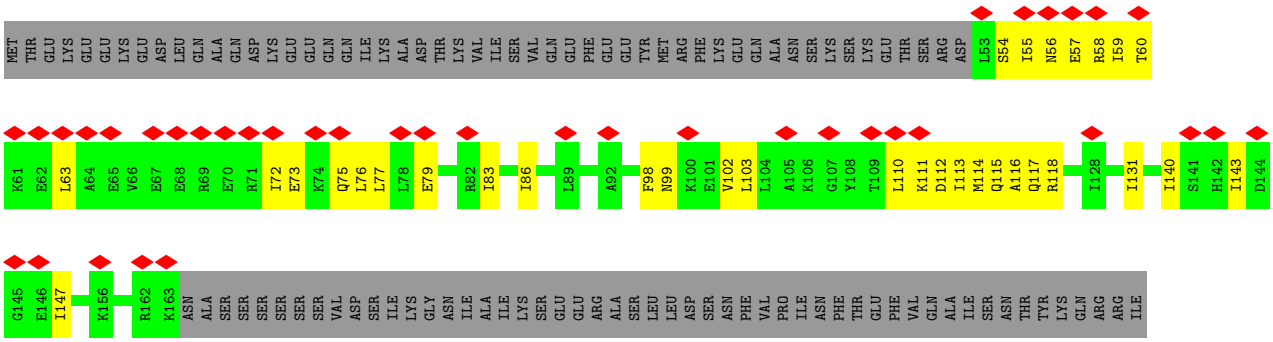




• Molecule 5: Scaffold protein

Chain eG:



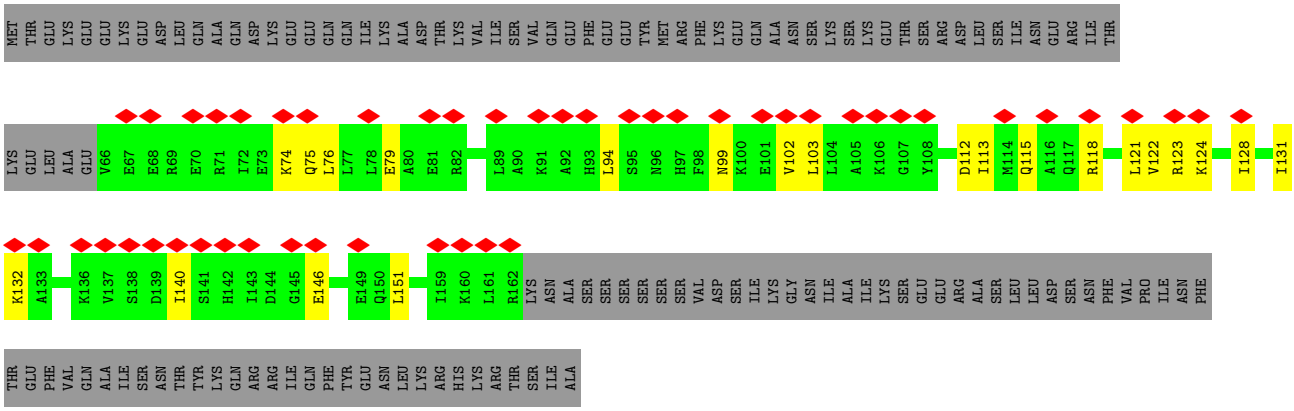




• Molecule 5: Scaffold protein

Chain eH:

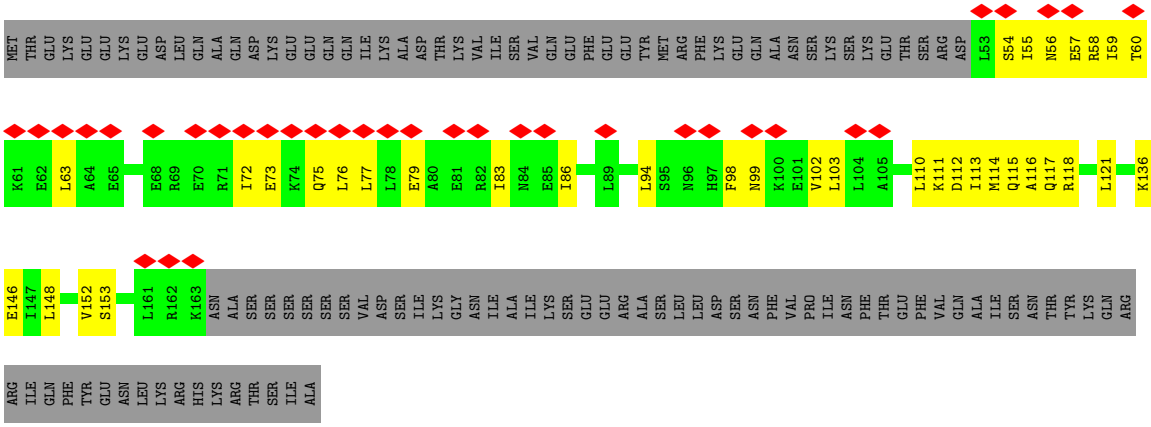




• Molecule 5: Scaffold protein

Chain eI:

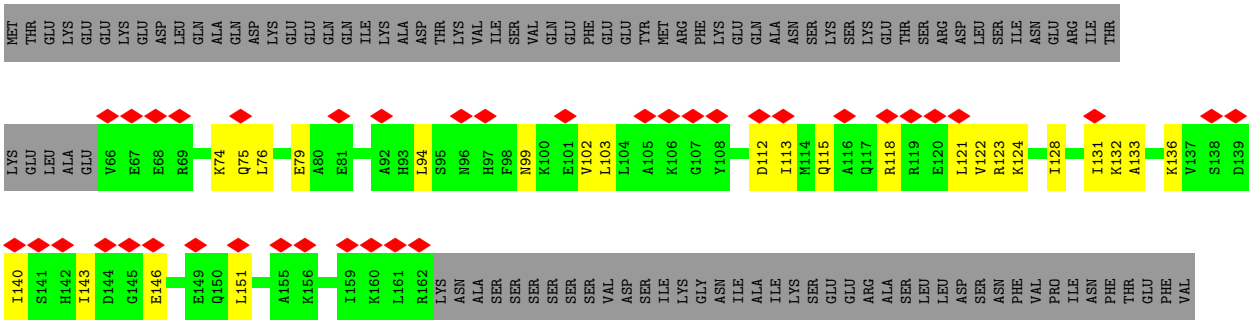




• Molecule 5: Scaffold protein

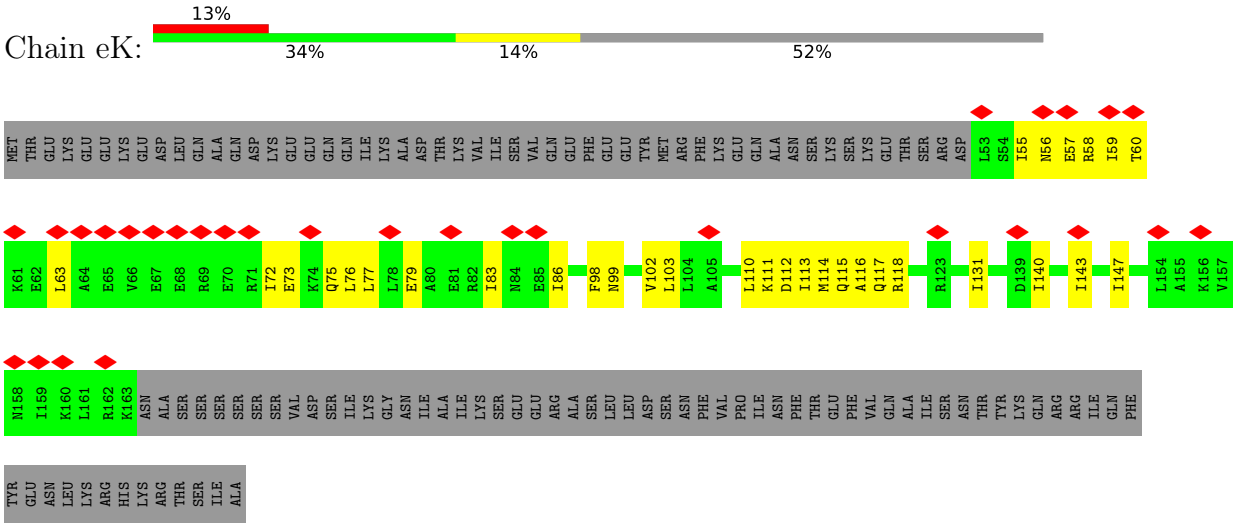
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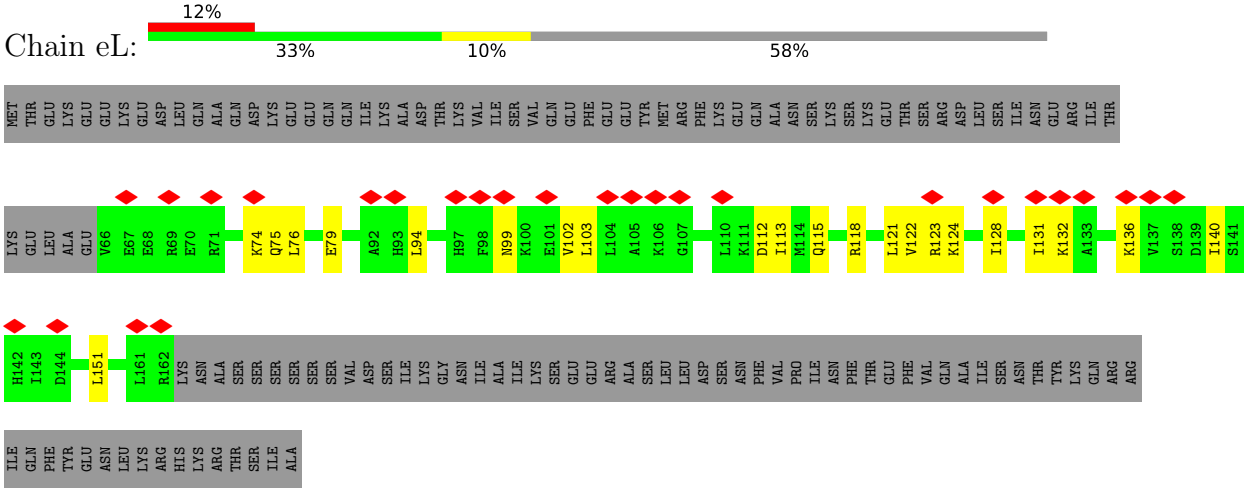




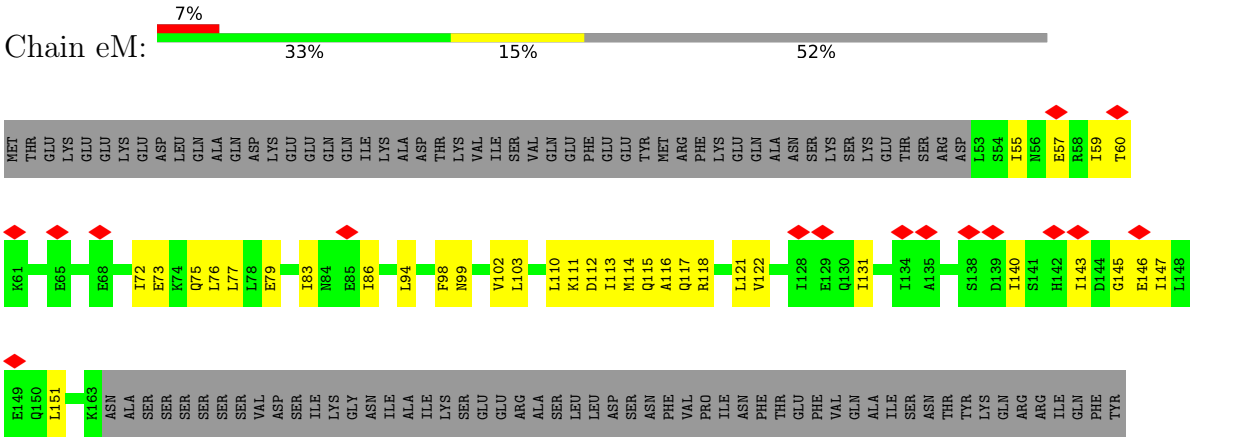
• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

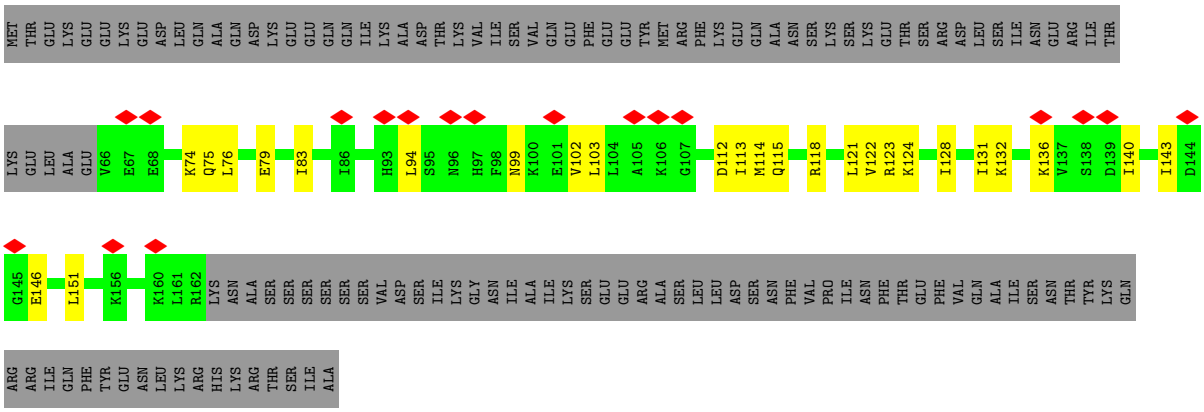




• Molecule 5: Scaffold protein

Chain eN:

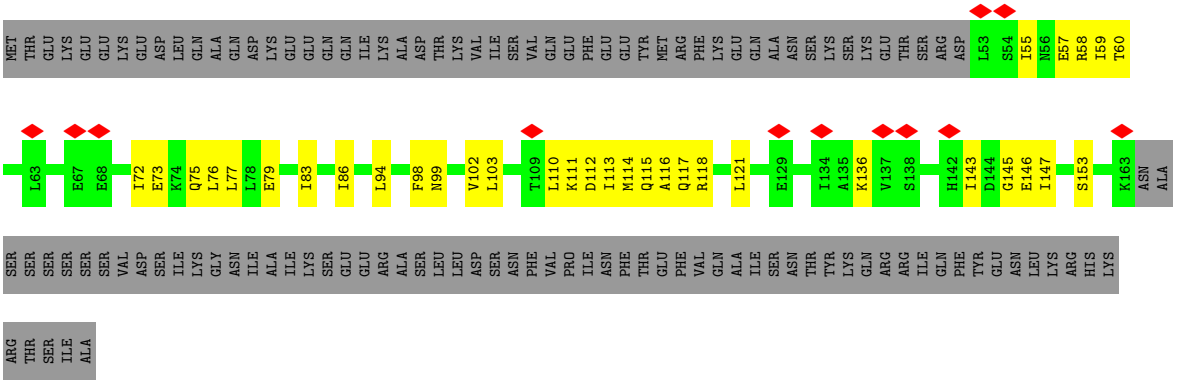




• Molecule 5: Scaffold protein

Chain eO:

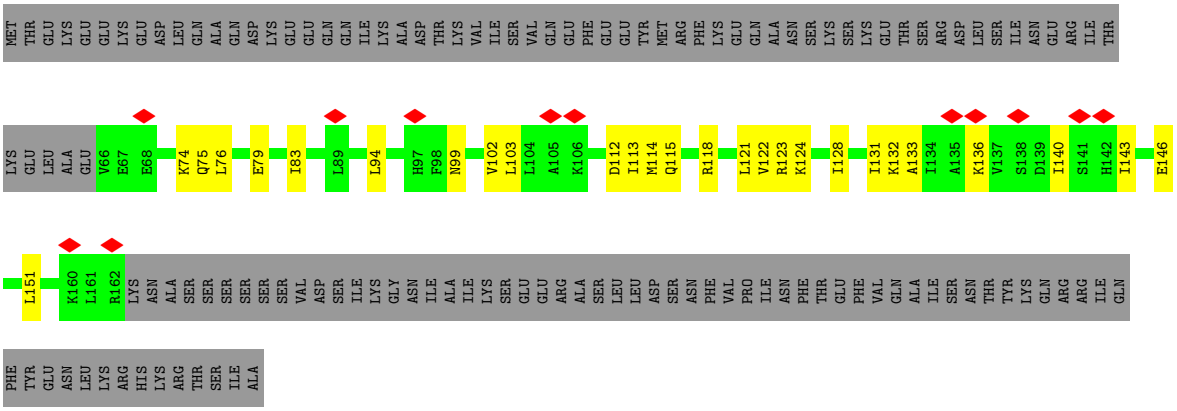




• Molecule 5: Scaffold protein

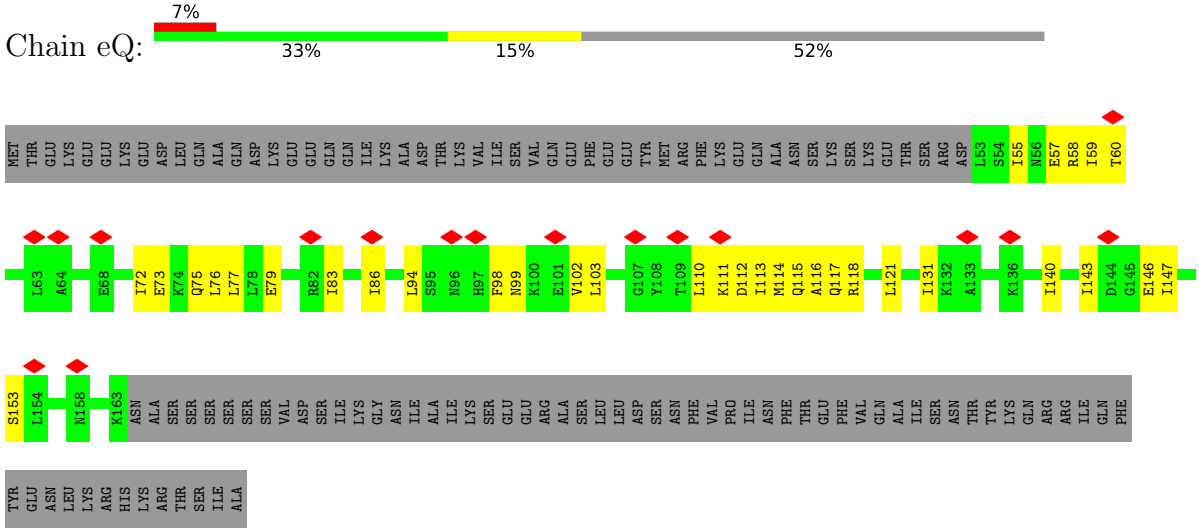
Chain eP:





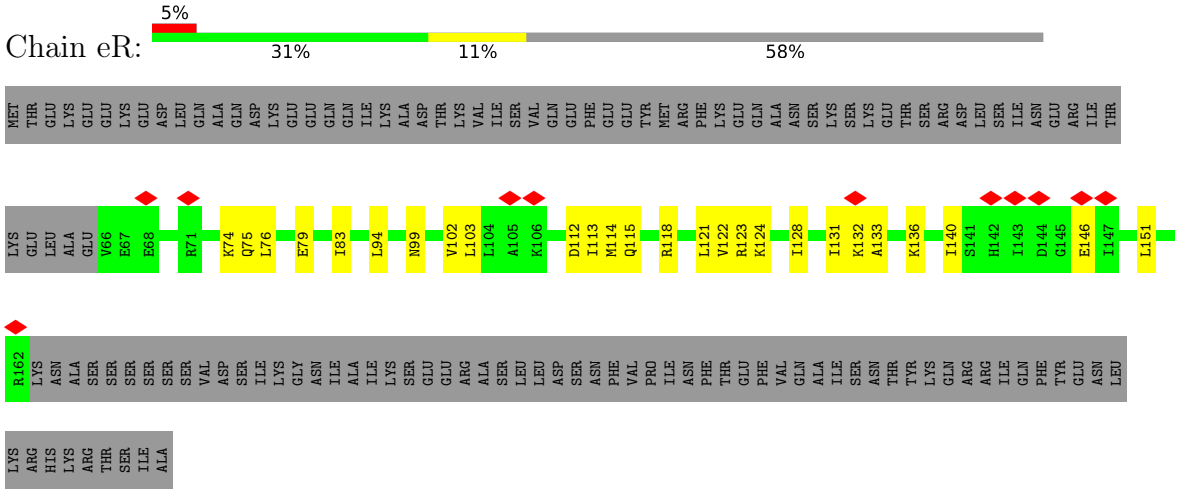
• Molecule 5: Scaffold protein

Chain eQ:



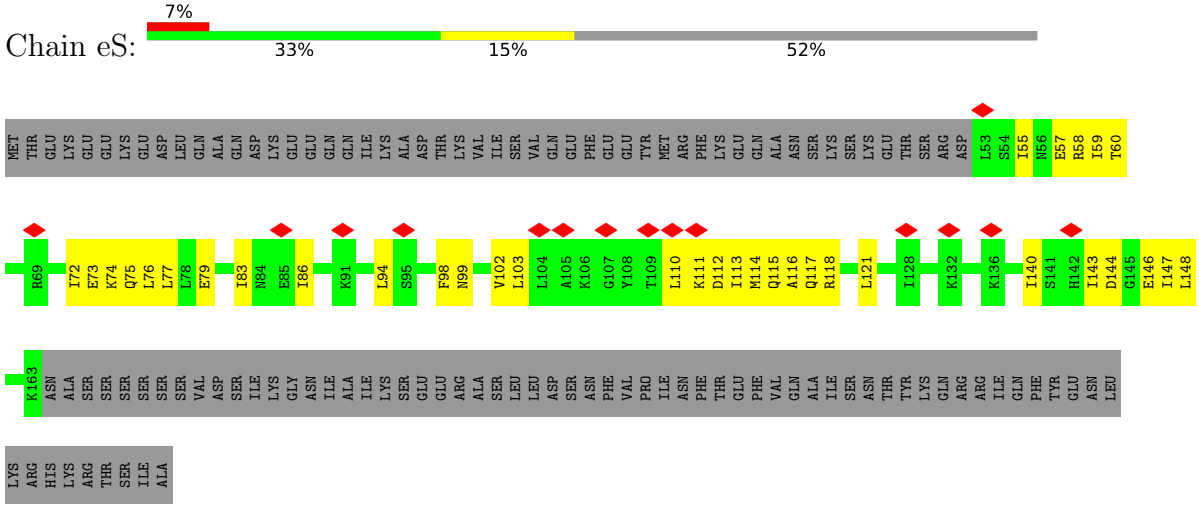
• Molecule 5: Scaffold protein

Chain eR:



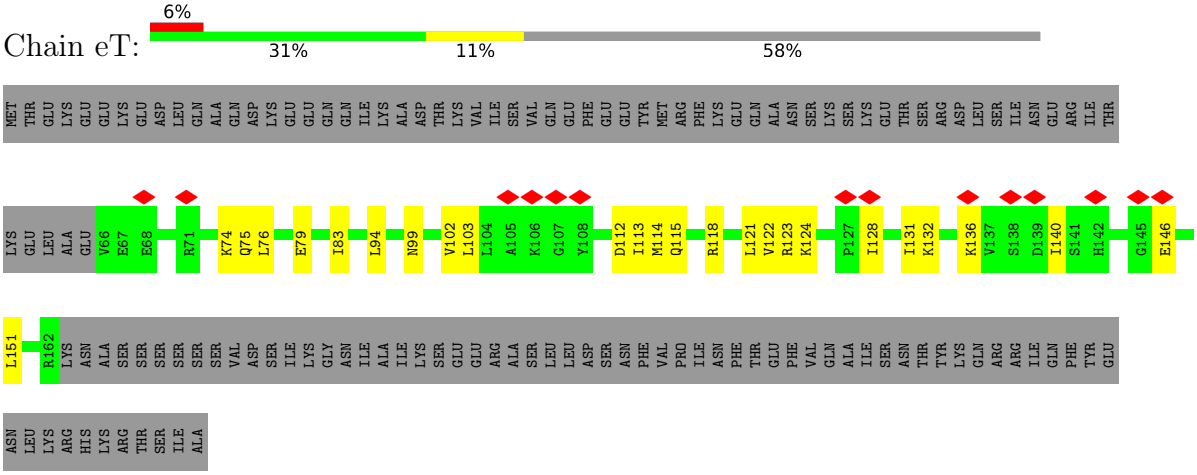
• Molecule 5: Scaffold protein

Chain eS:



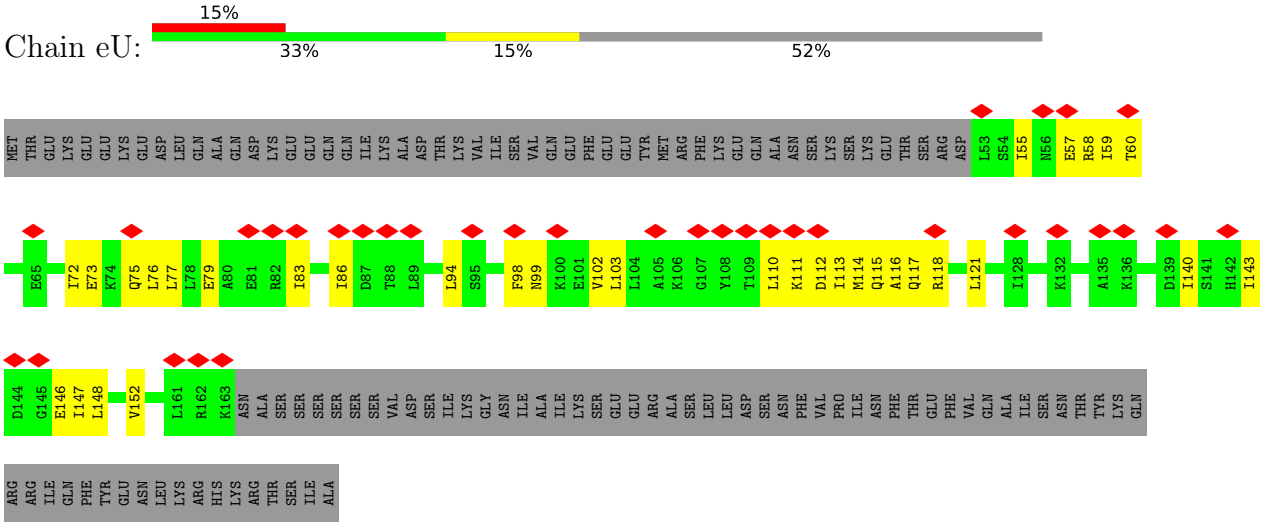
• Molecule 5: Scaffold protein

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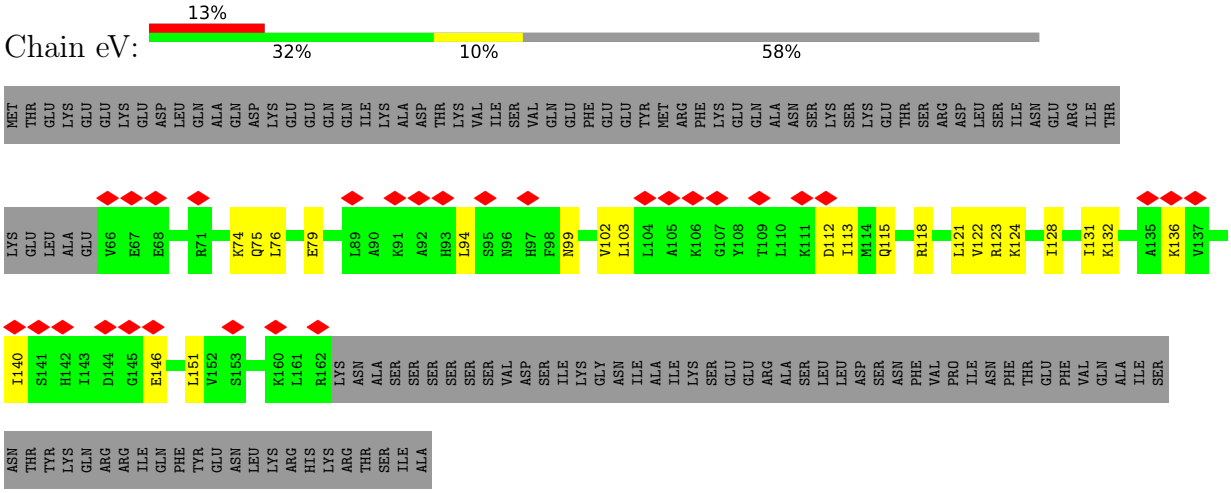
• Molecule 5: Scaffold protein

Chain eU:



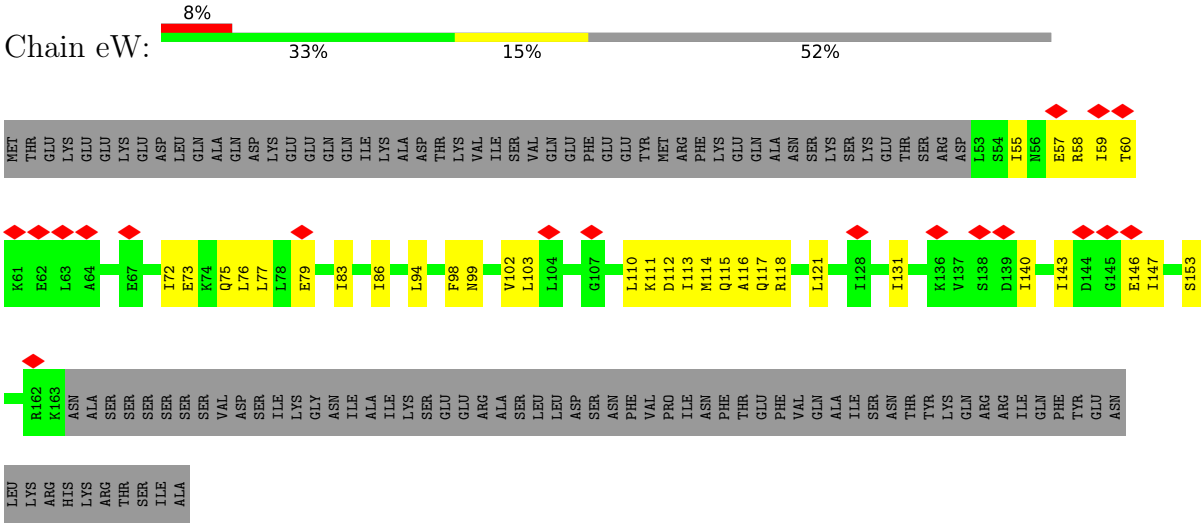
• Molecule 5: Scaffold protein

Chain eV:



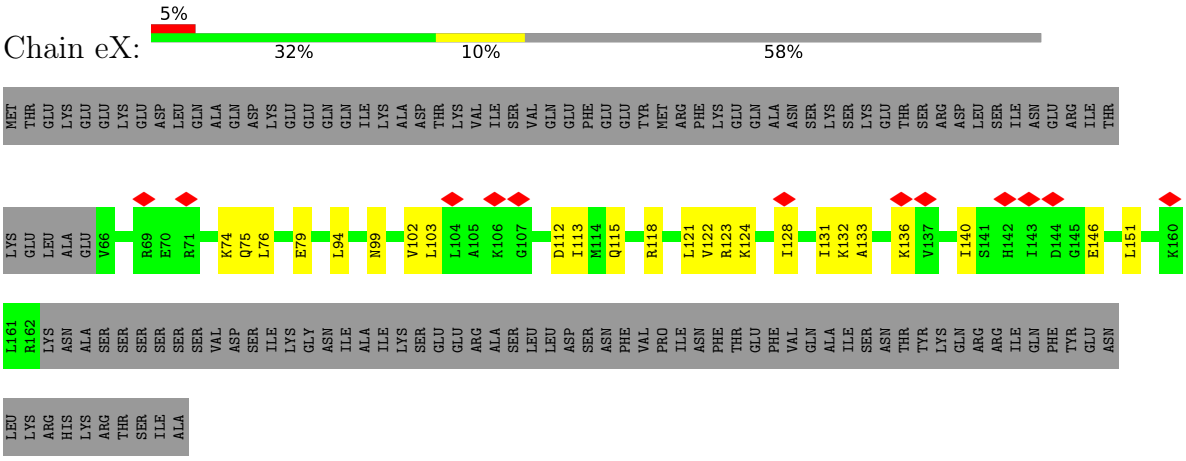
• Molecule 5: Scaffold protein

Chain eW:



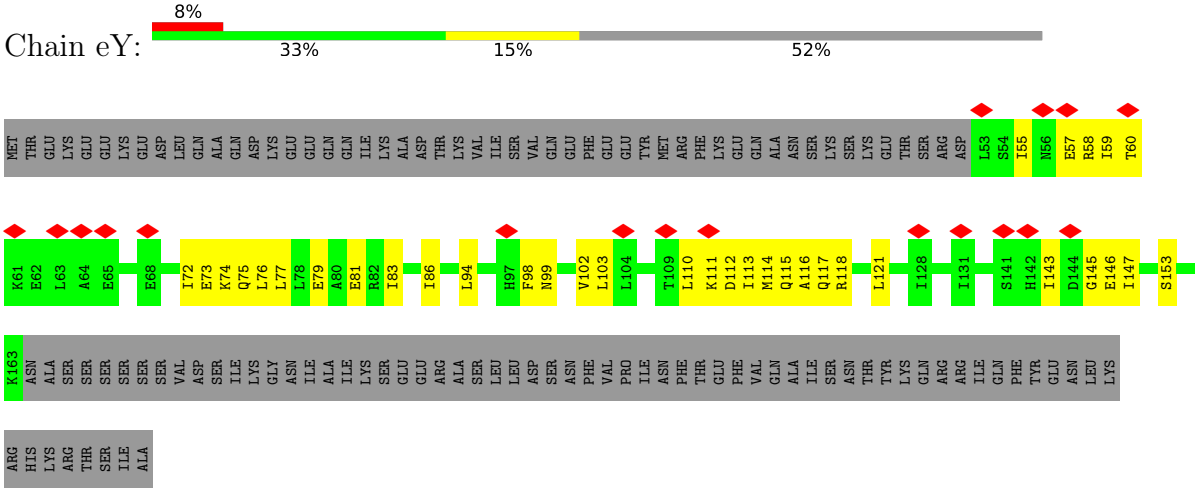
• Molecule 5: Scaffold protein

Chain eX:



• Molecule 5: Scaffold protein

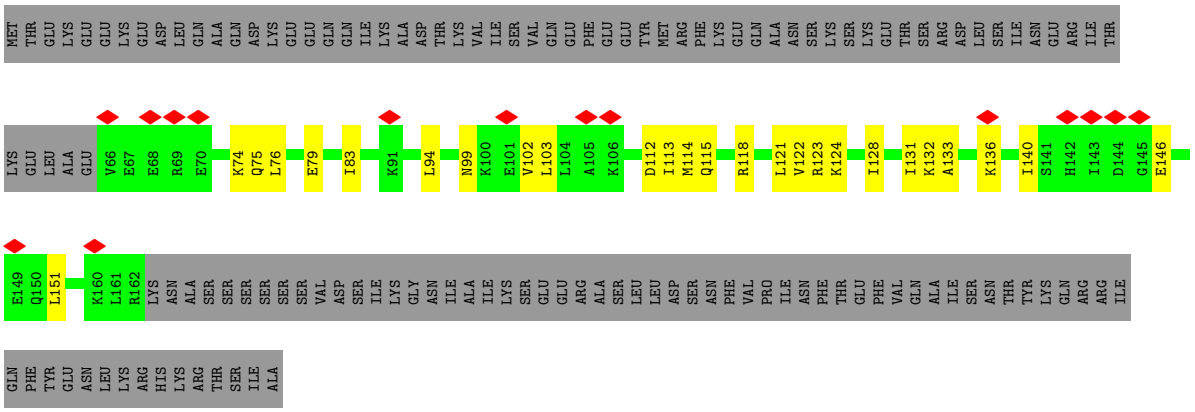
Chain eY:



• Molecule 5: Scaffold protein

Chain eZ:

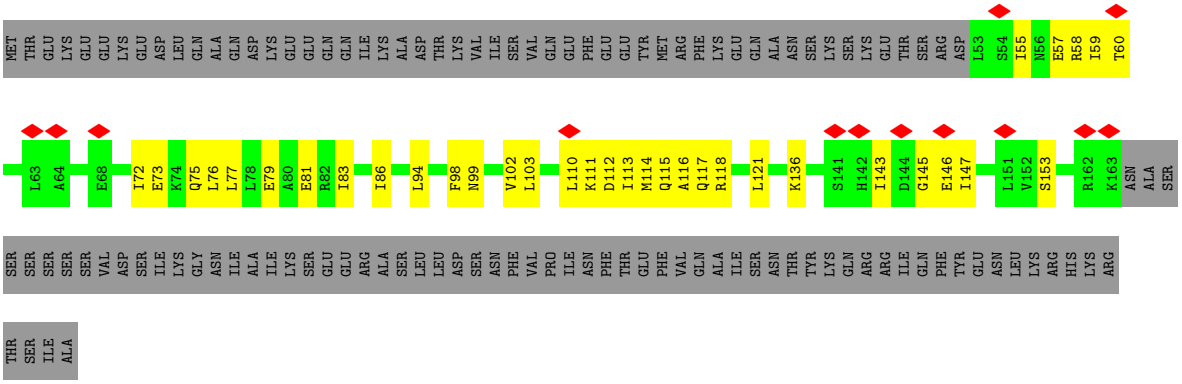




• Molecule 5: Scaffold protein

Chain ea:

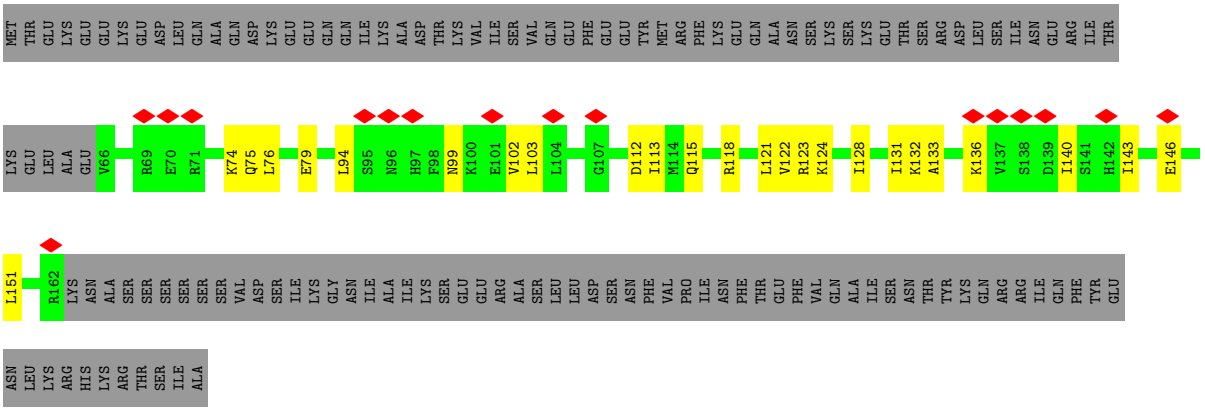




• Molecule 5: Scaffold protein

Chain eb:

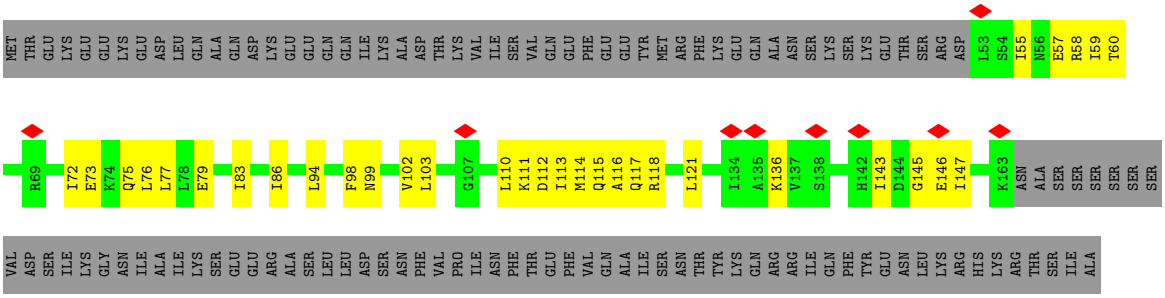




• Molecule 5: Scaffold protein

Chain ec:

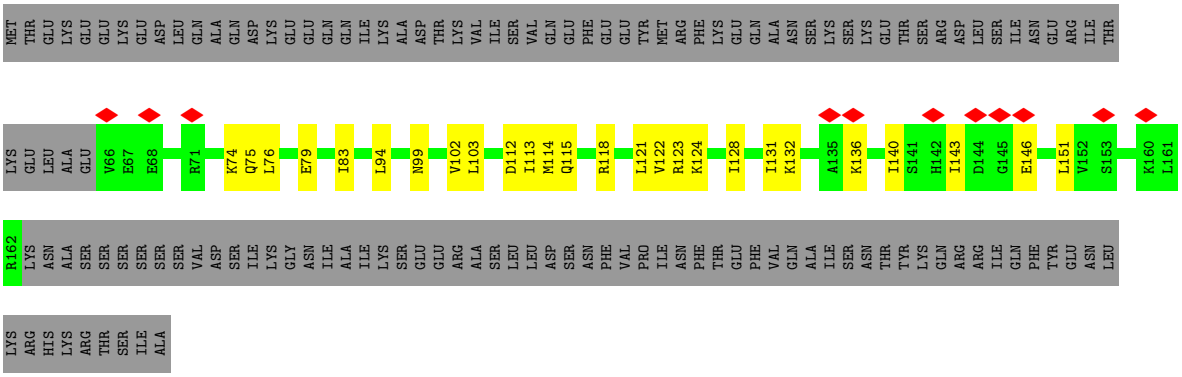




• Molecule 5: Scaffold protein

Chain ed:

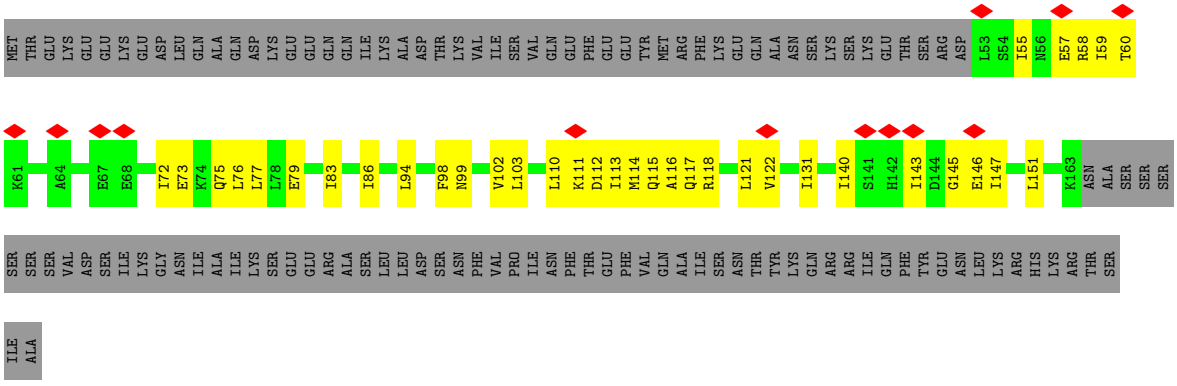




• Molecule 5: Scaffold protein

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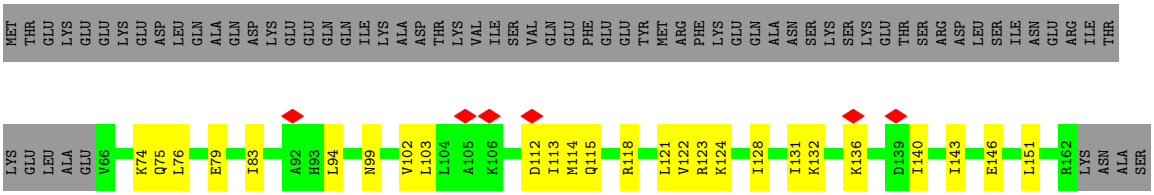


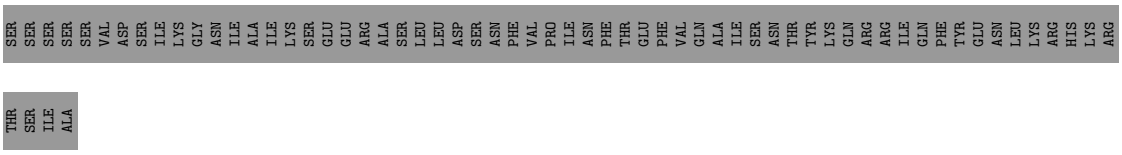


• Molecule 5: Scaffold protein

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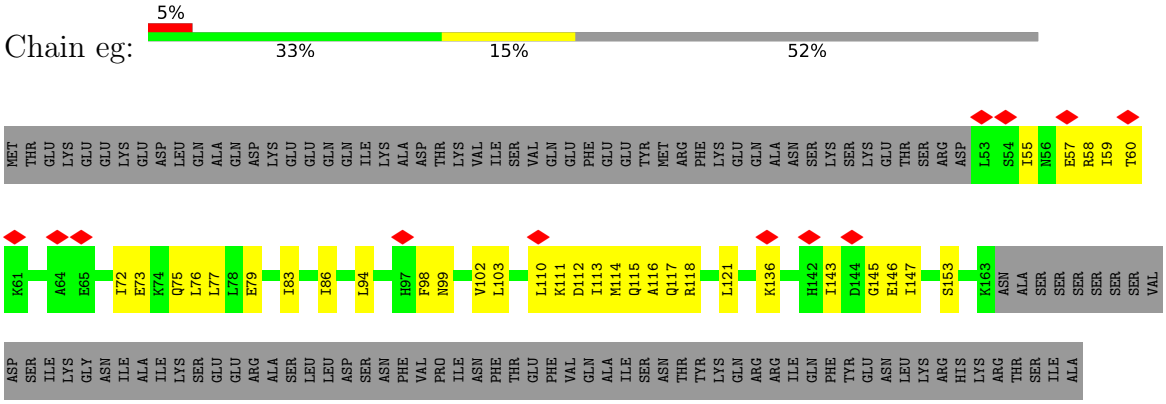






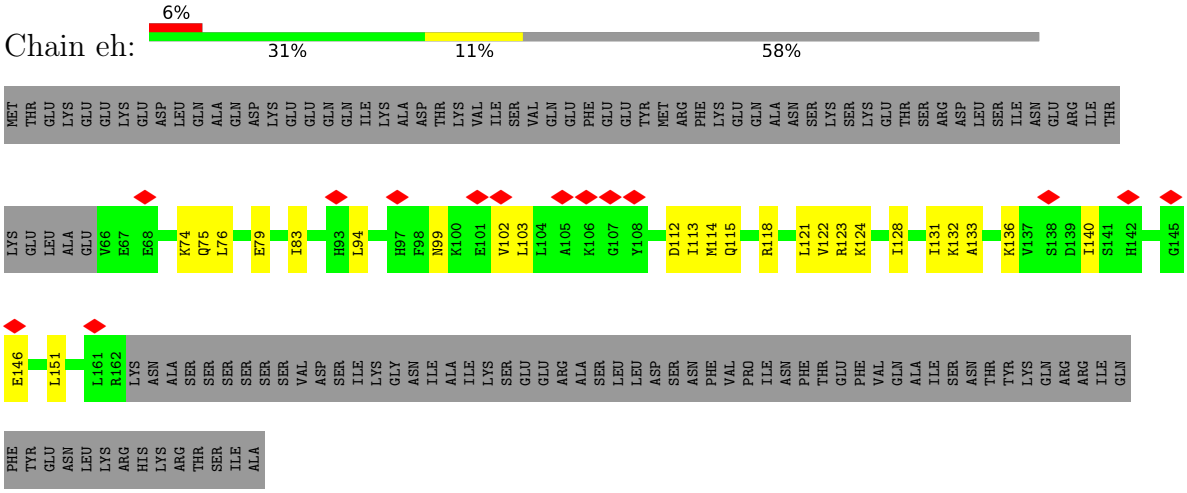
• Molecule 5: Scaffold protein

Chain eg:



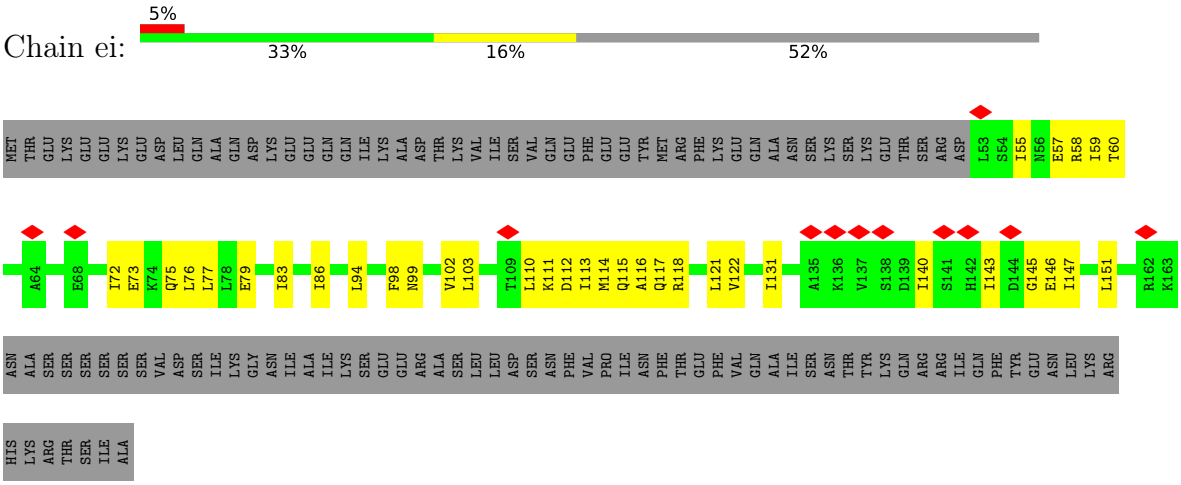
• Molecule 5: Scaffold protein

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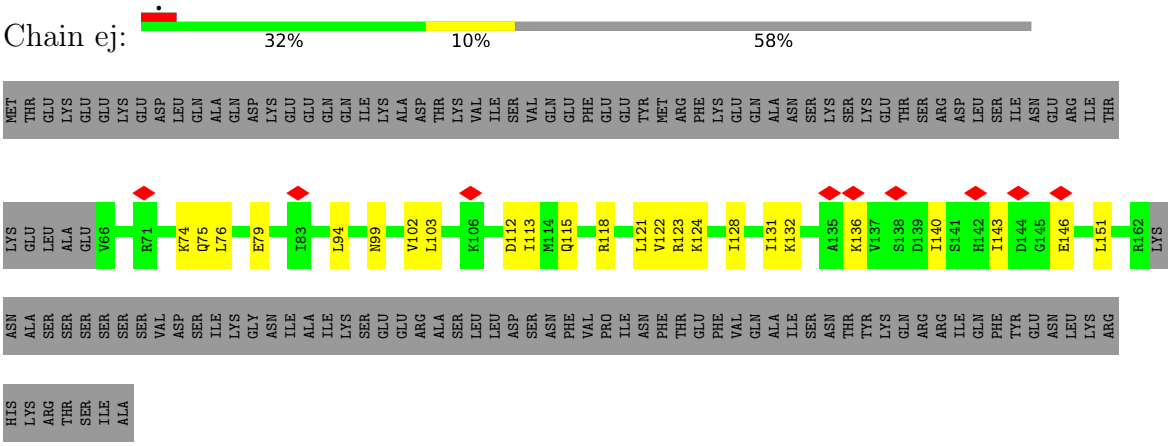
• Molecule 5: Scaffold protein

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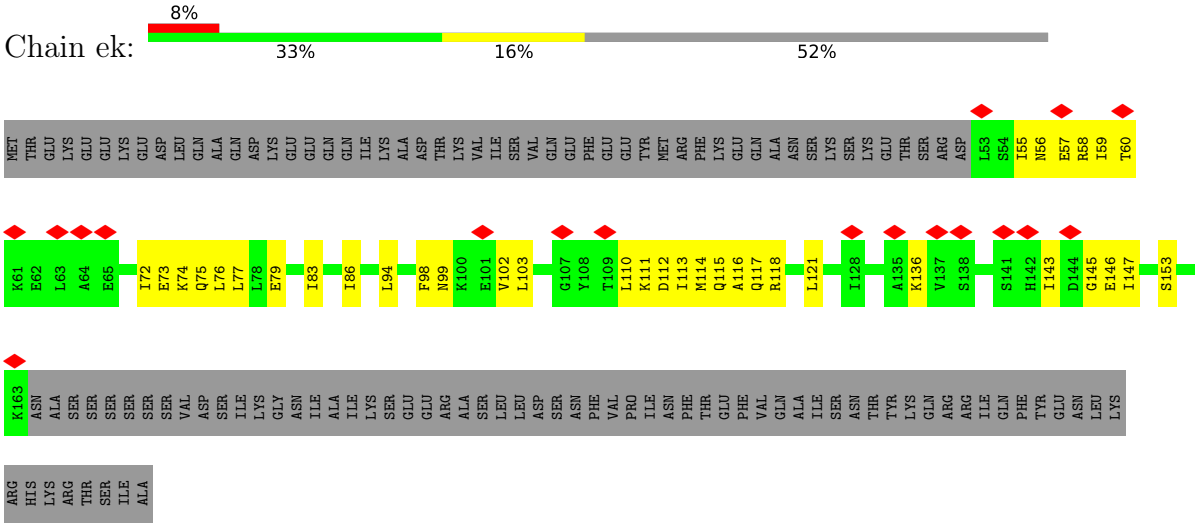
• Molecule 5: Scaffold protein

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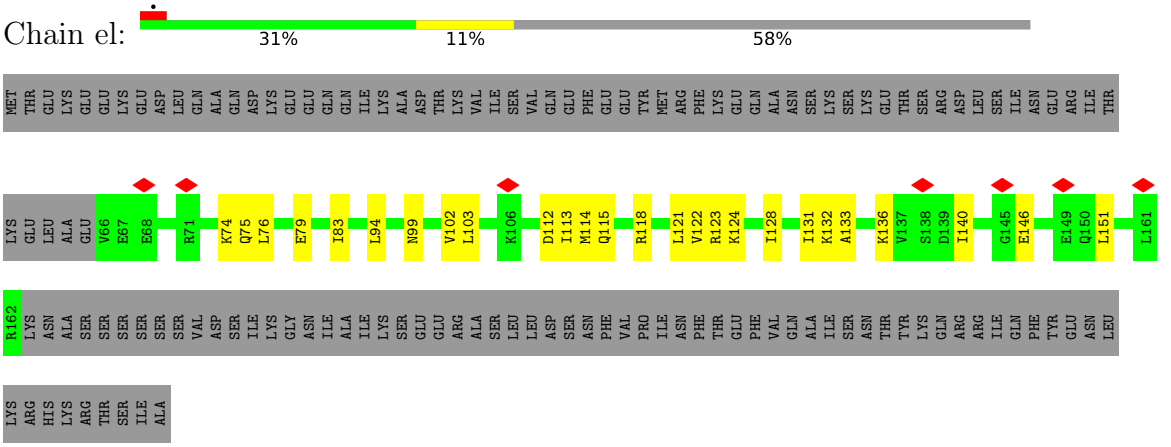
• Molecule 5: Scaffold protein

Chain ek:



• Molecule 5: Scaffold protein

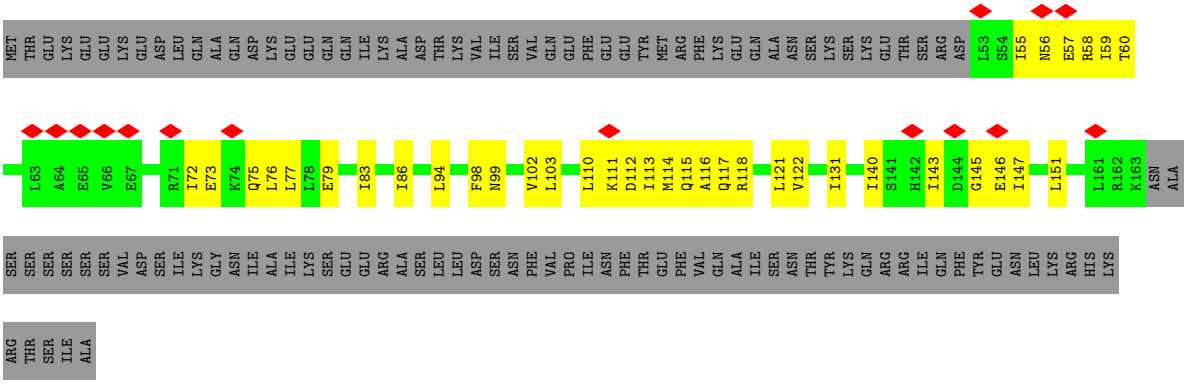
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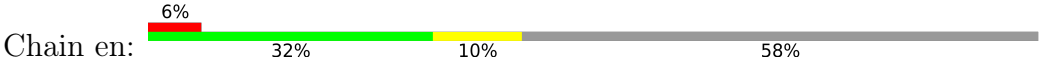
• Molecule 5: Scaffold protein

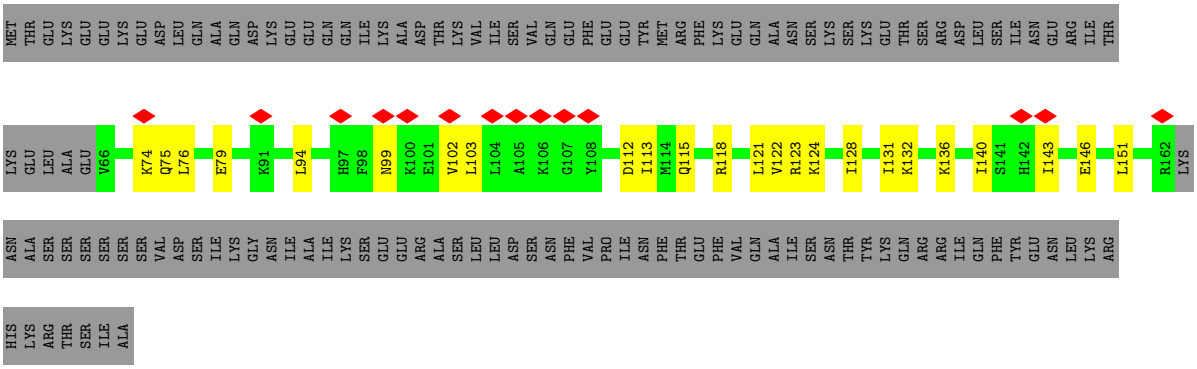
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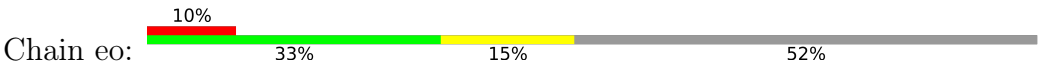


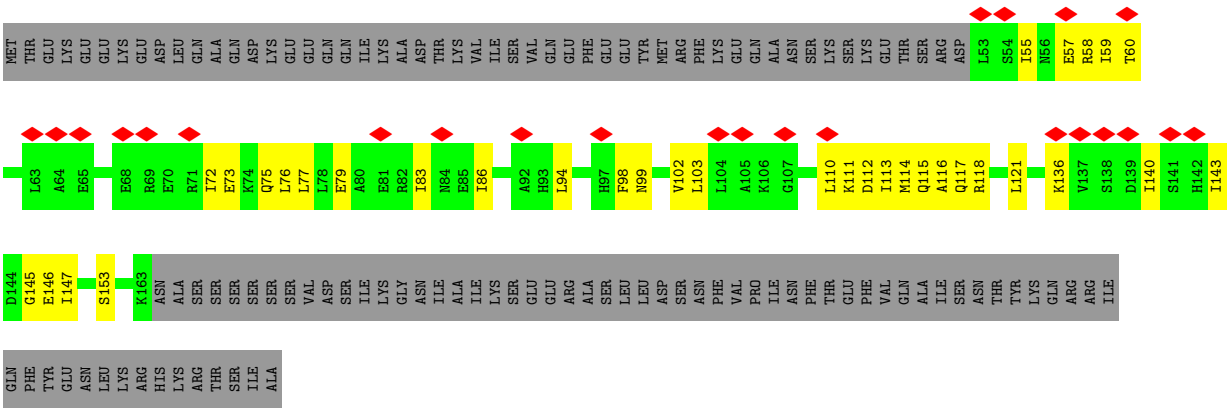
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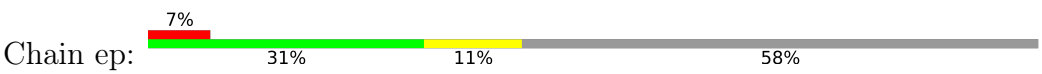


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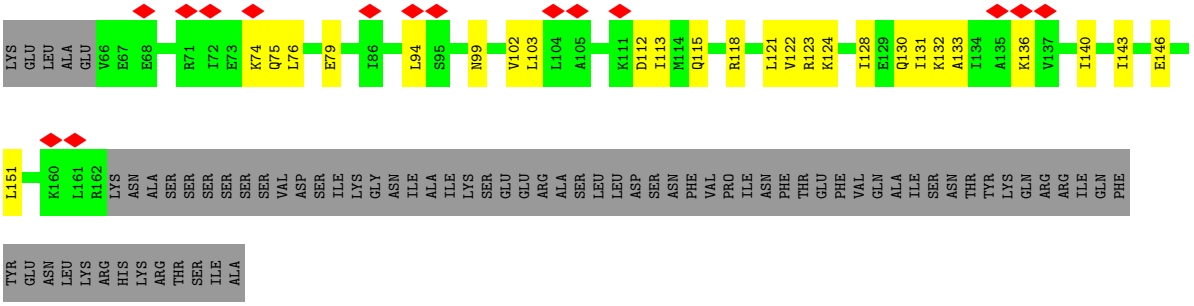




• Molecule 5: Scaffold protein



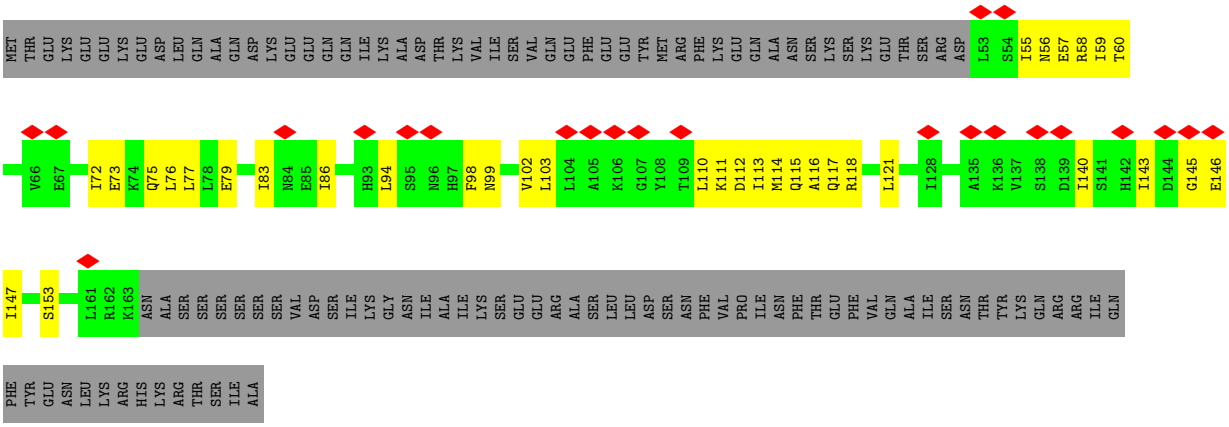




• Molecule 5: Scaffold protein

Chain eq:

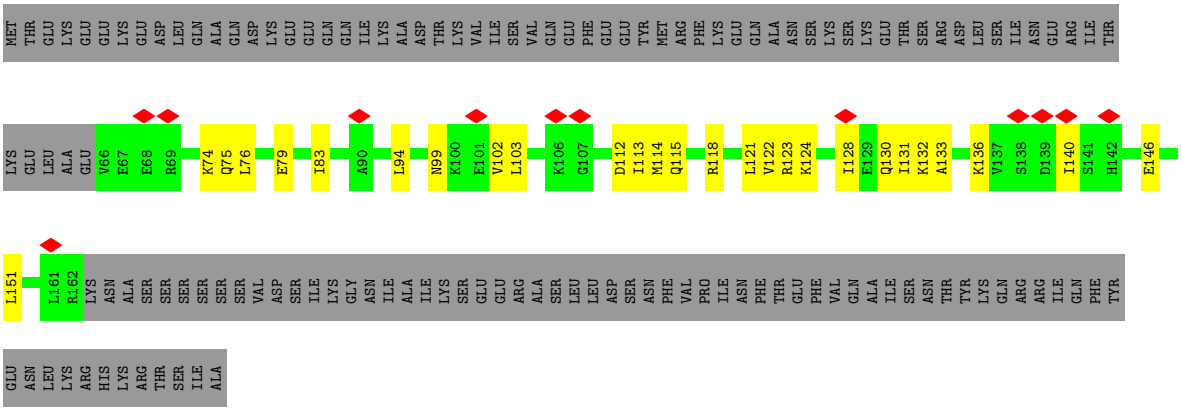




• Molecule 5: Scaffold protein

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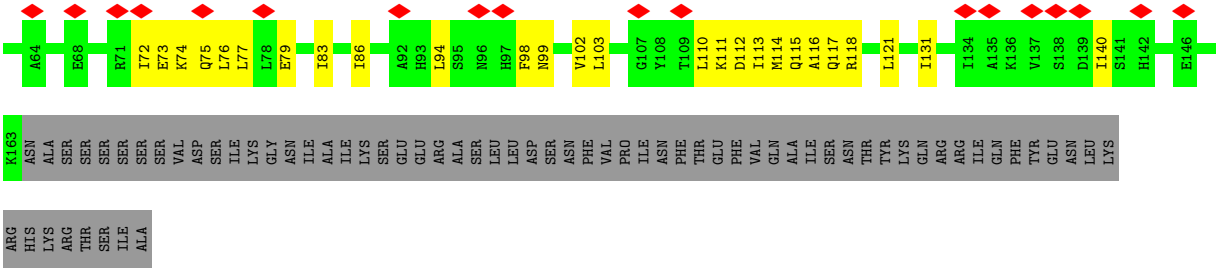


• Molecule 5: Scaffold protein

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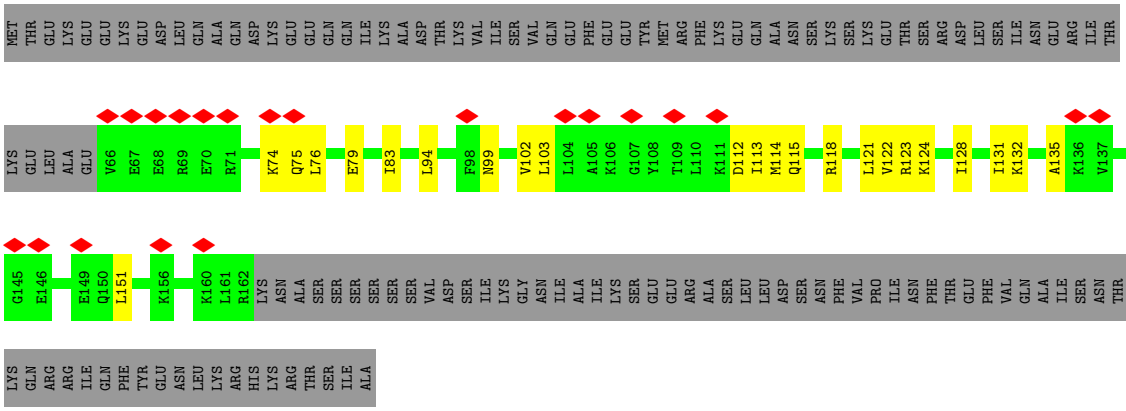




• Molecule 5: Scaffold protein

Chain et:





• Molecule 5: Scaffold protein

Chain eu:

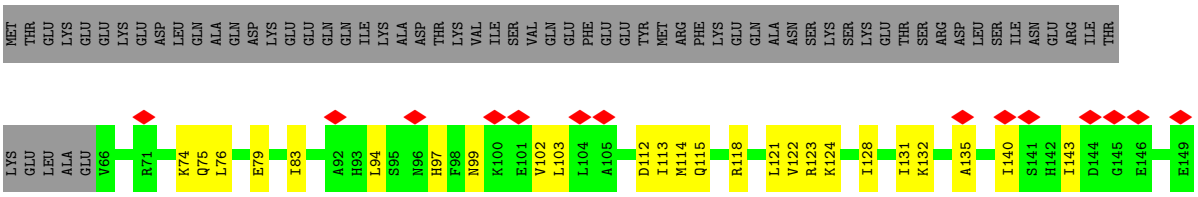


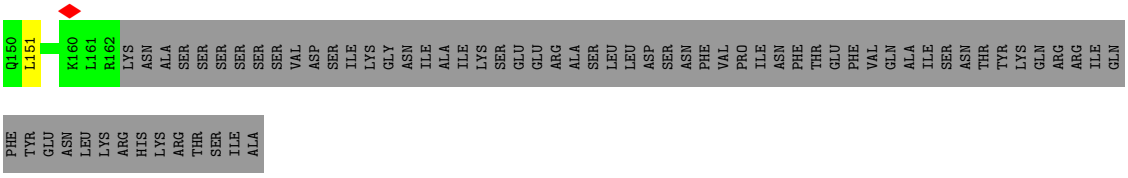


• Molecule 5: Scaffold protein

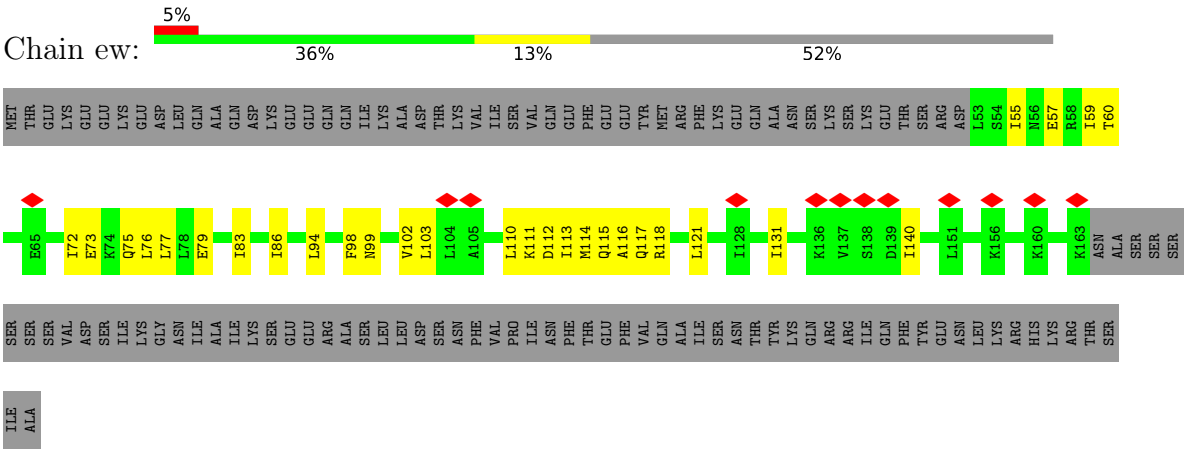
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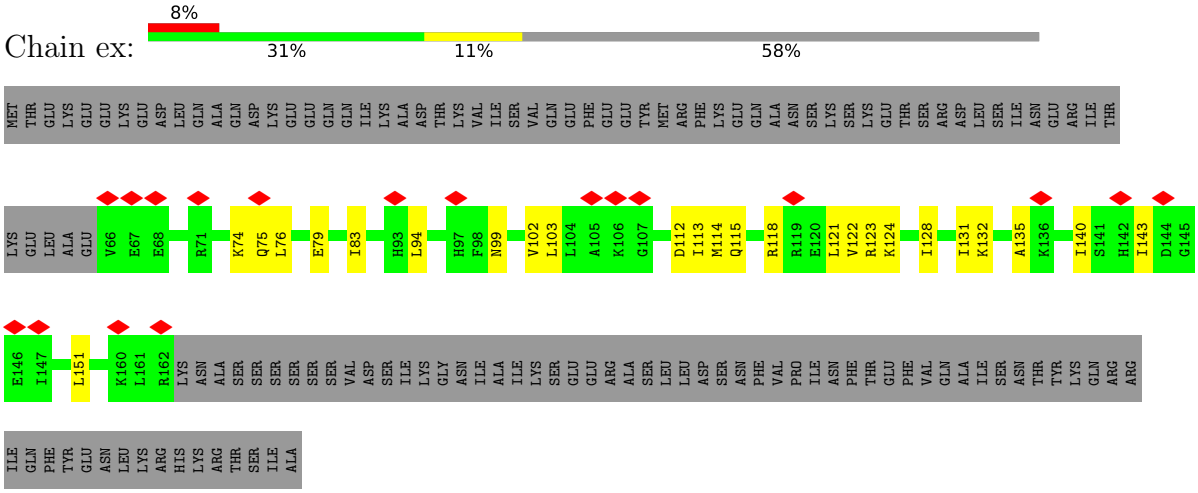




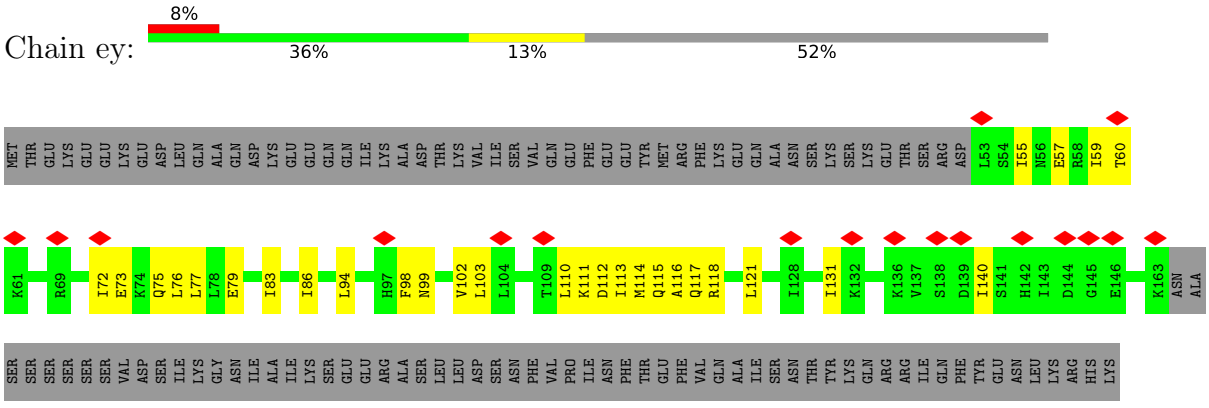
• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein



• Molecule 5: Scaffold protein

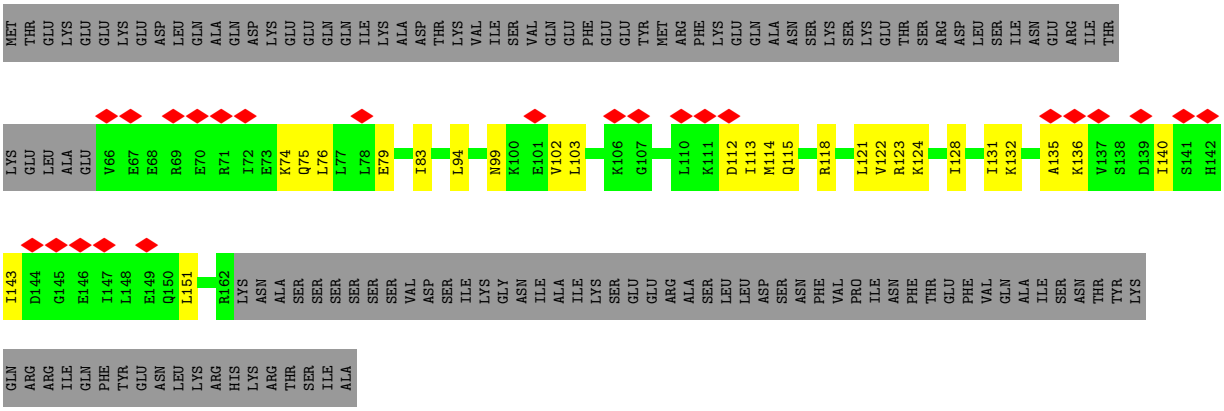




• Molecule 5: Scaffold protein

Chain ez:

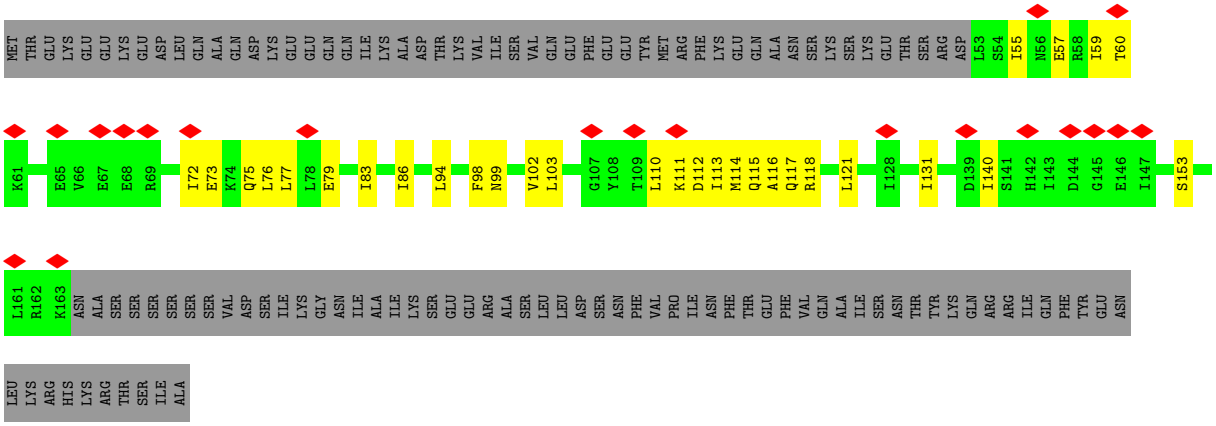




• Molecule 5: Scaffold protein

Chain fA:

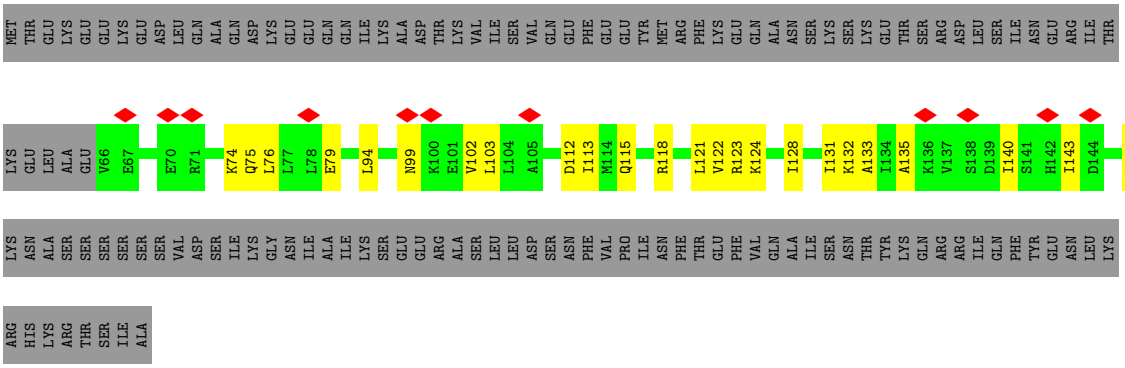




• Molecule 5: Scaffold protein

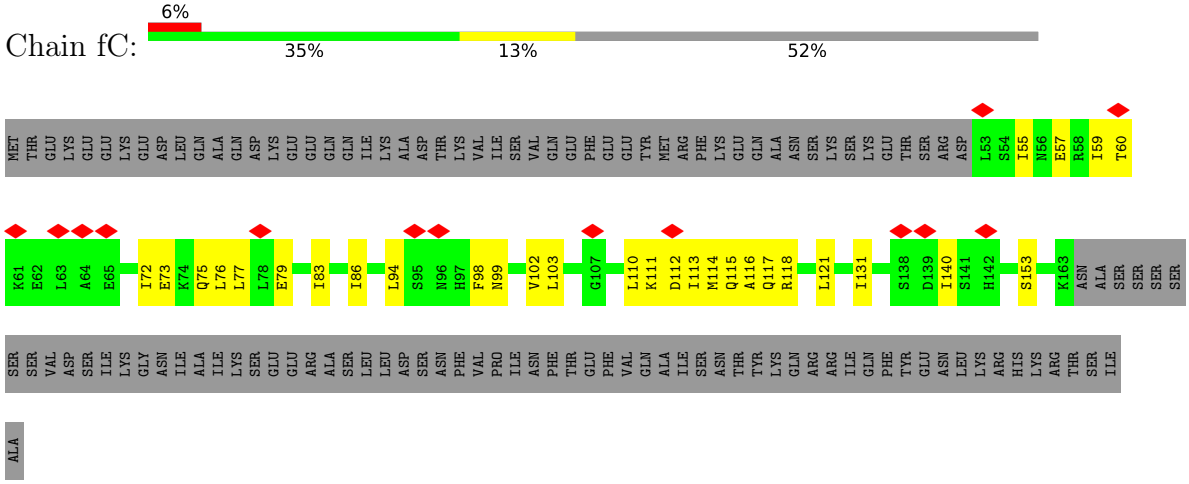
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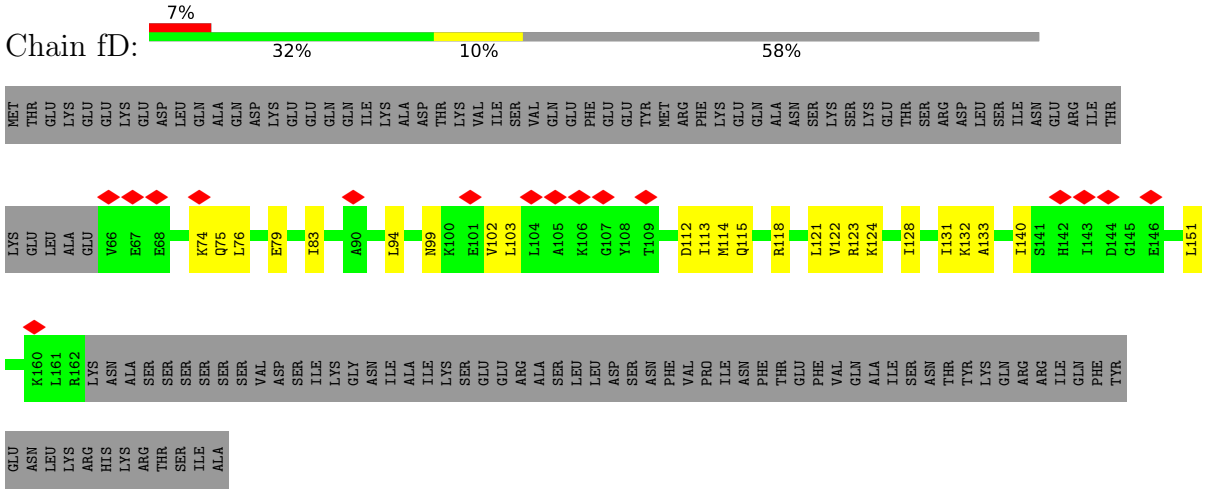
• Molecule 5: Scaffold protein

Chain fC:



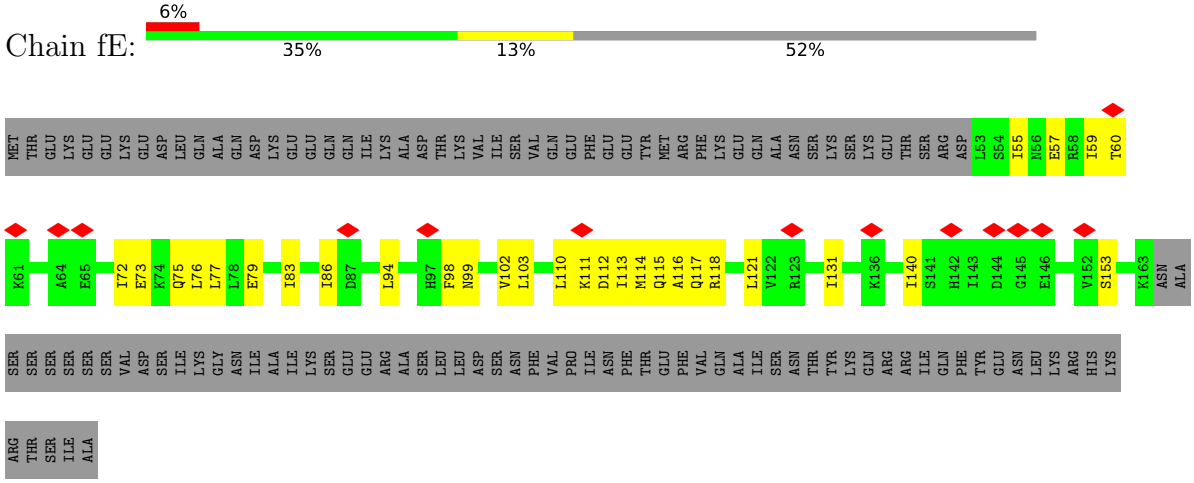
• Molecule 5: Scaffold protein

Chain fD:



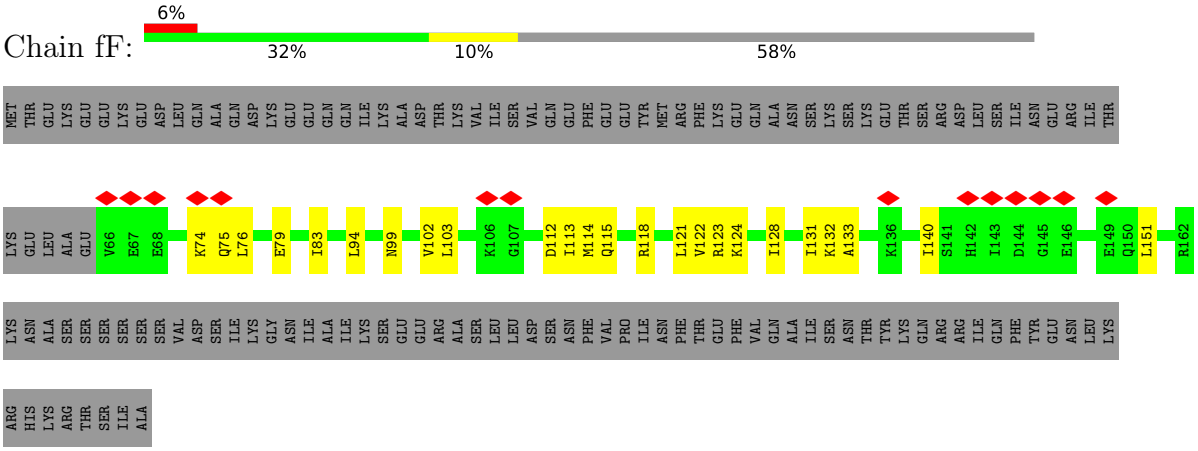
• Molecule 5: Scaffold protein

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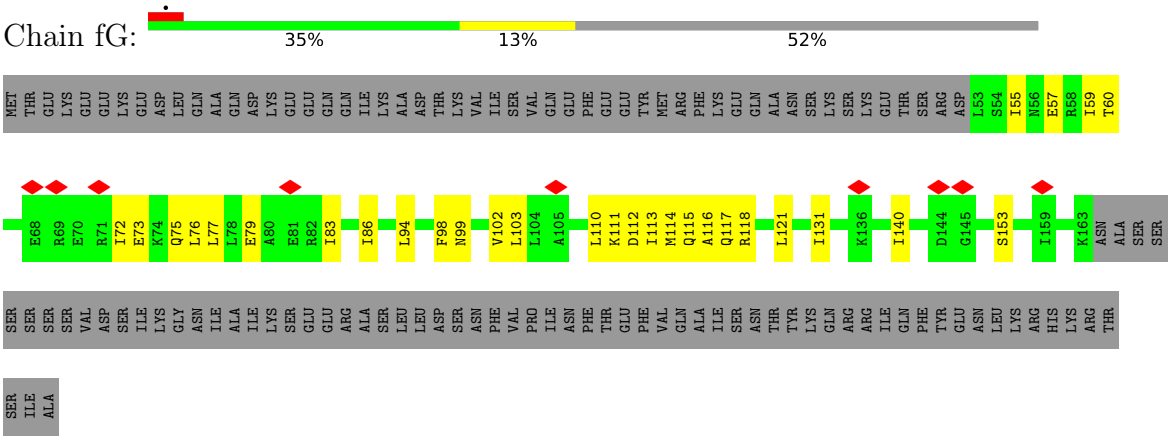
• Molecule 5: Scaffold protein

Chain fF:



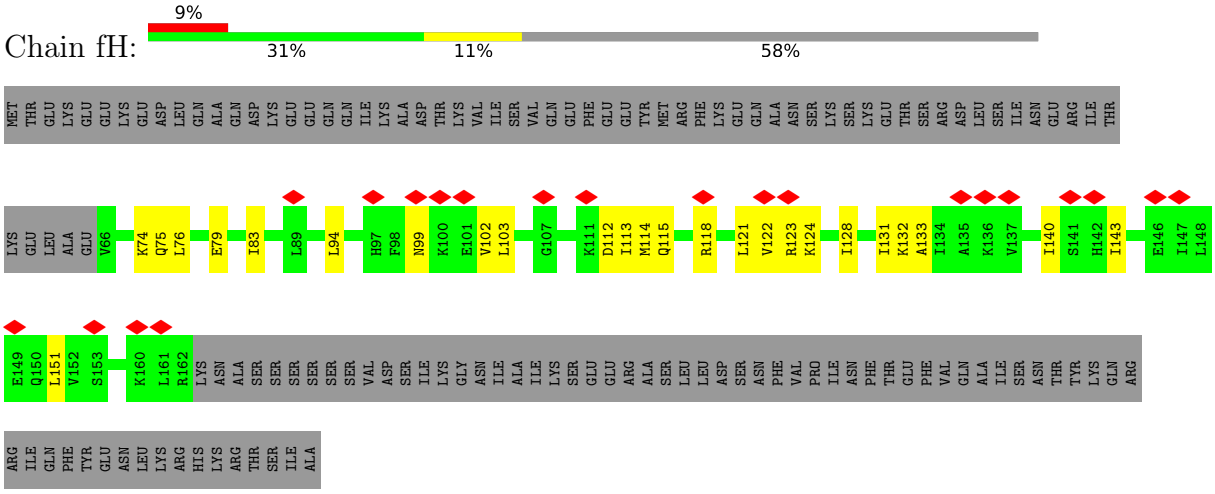
• Molecule 5: Scaffold protein

Chain fG:



• Molecule 5: Scaffold protein

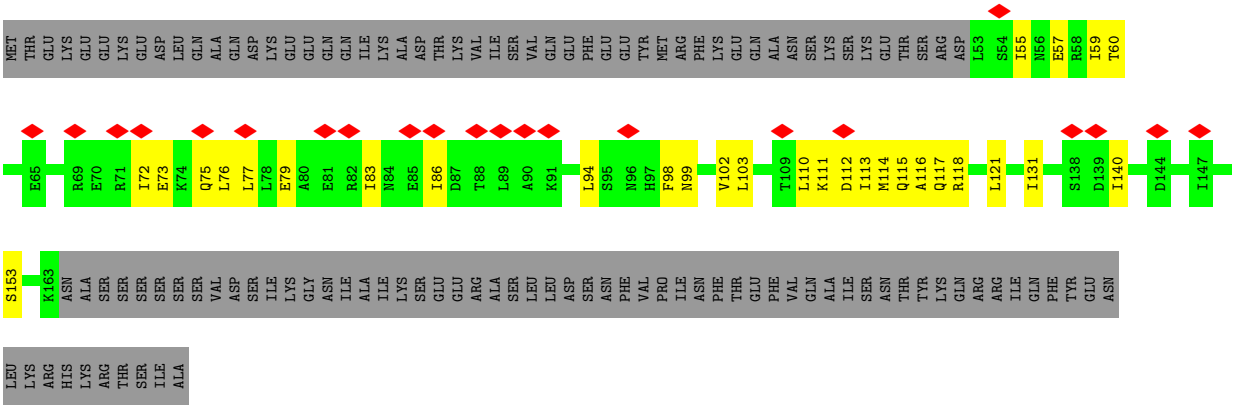
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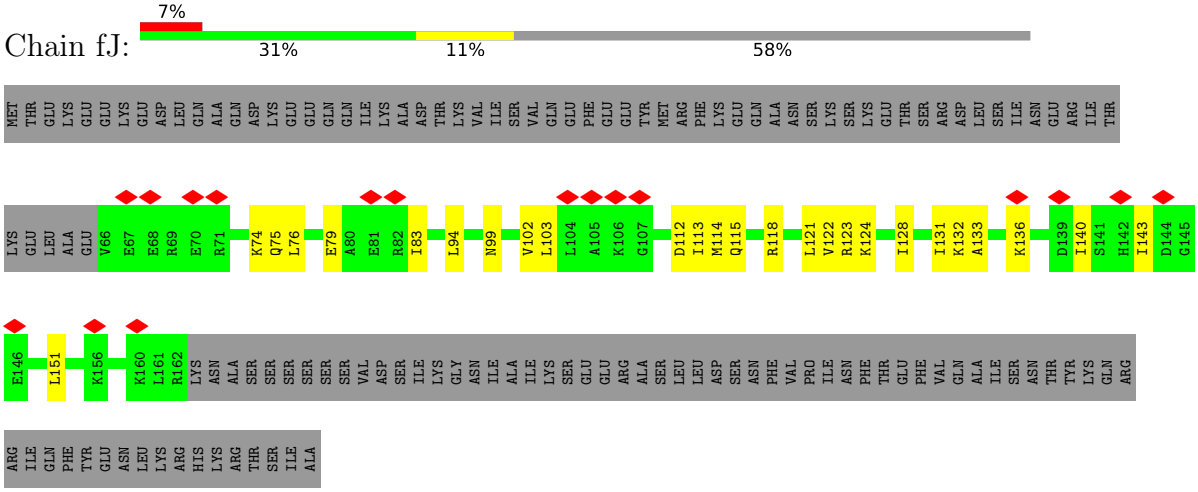
• Molecule 5: Scaffold protein

Chain fI:

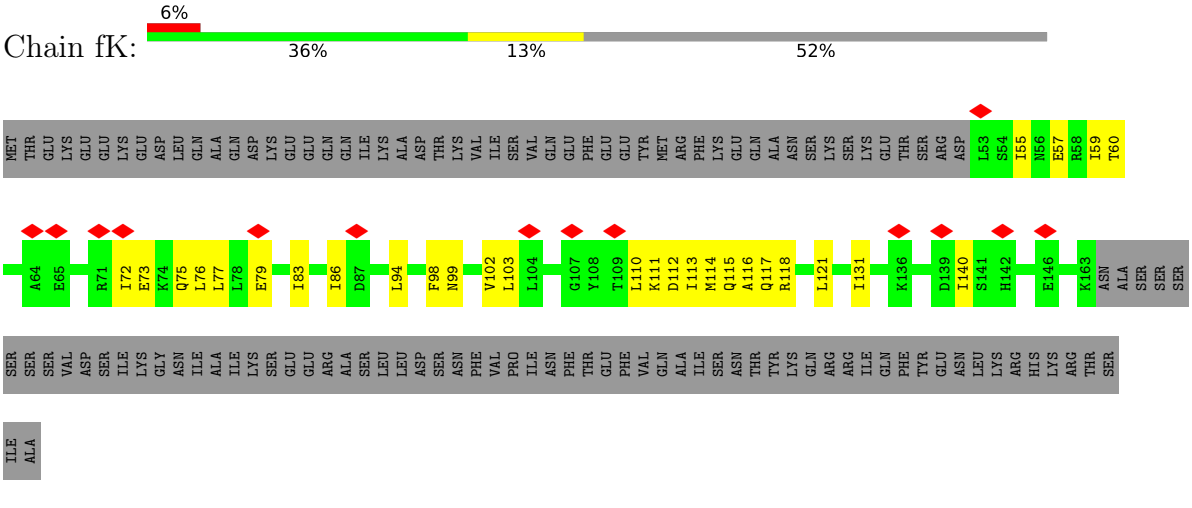




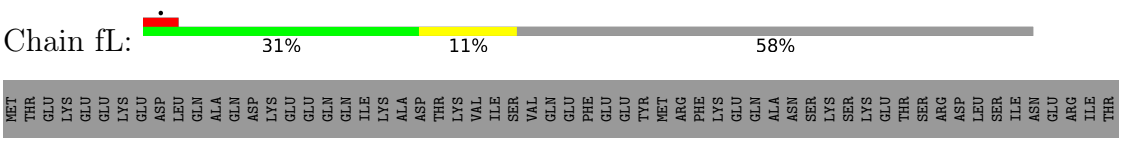
• Molecule 5: Scaffold protein

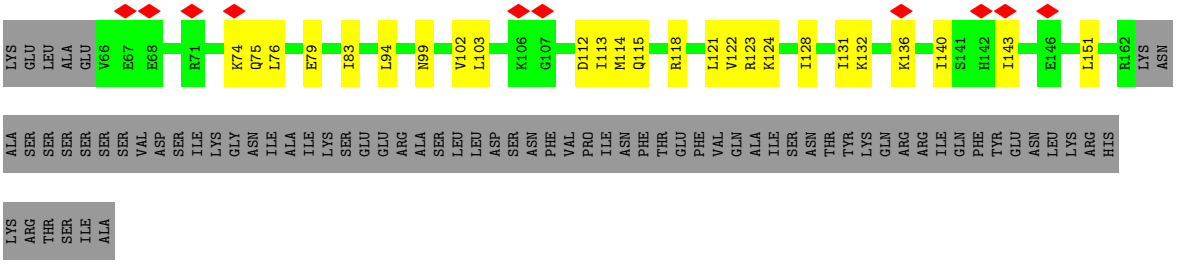


• Molecule 5: Scaffold protein



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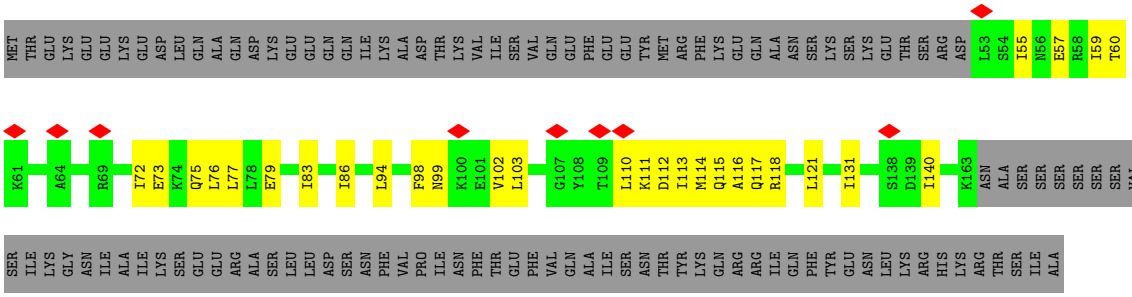




• Molecule 5: Scaffold protein

Chain fM:

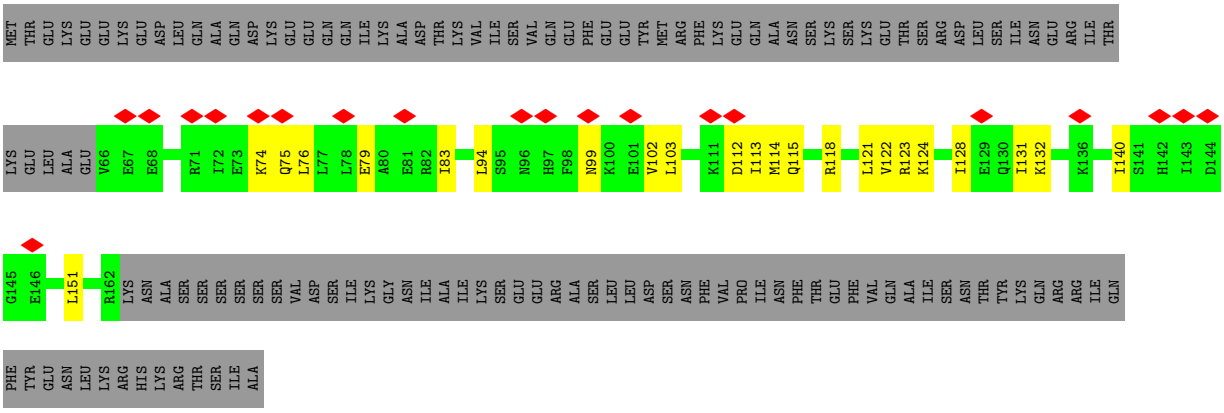




• Molecule 5: Scaffold protein

Chain fN:

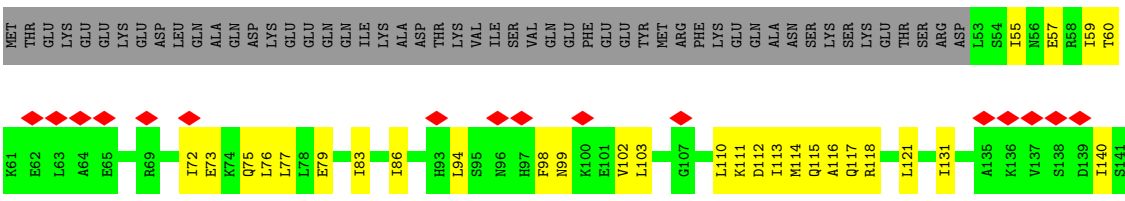


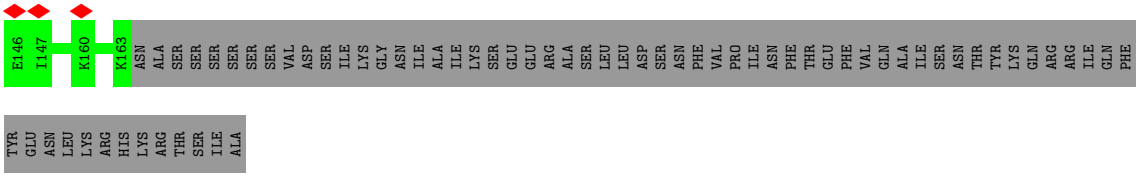


• Molecule 5: Scaffold protein

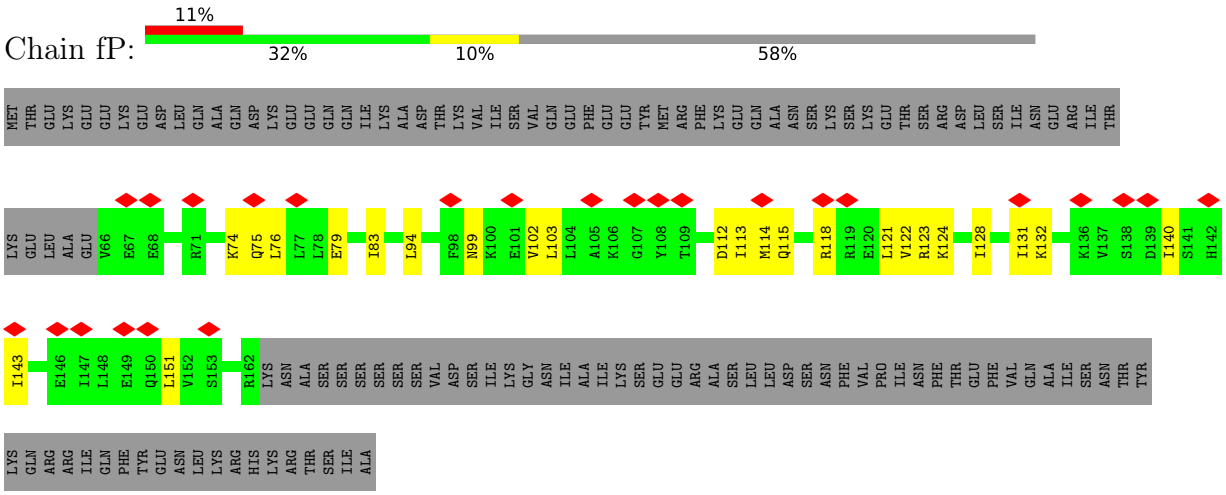
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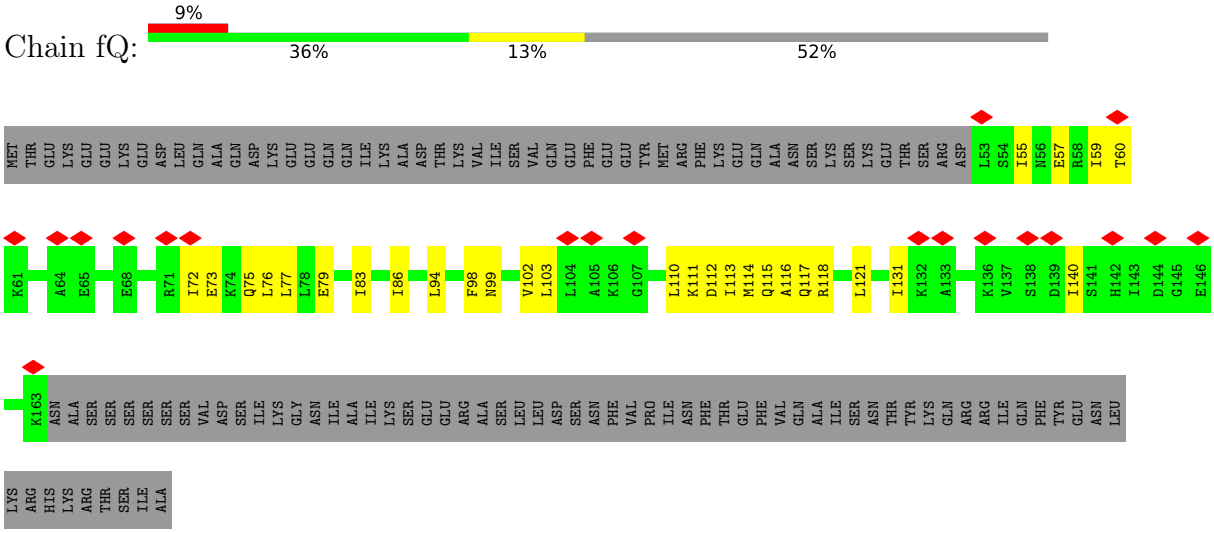




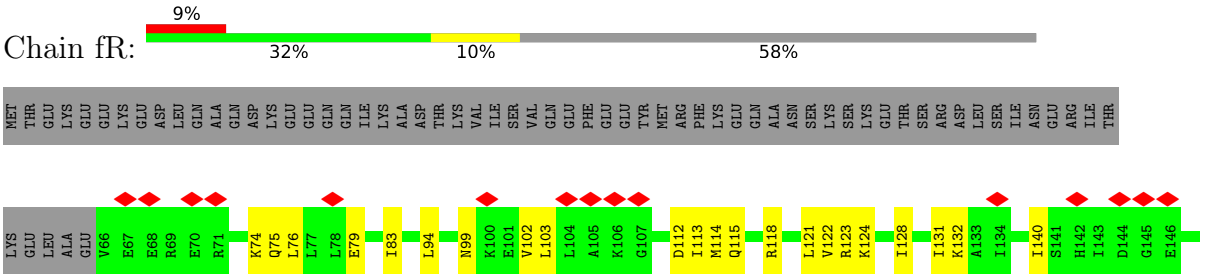
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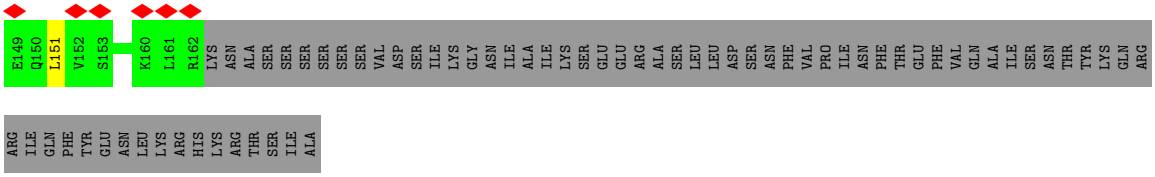


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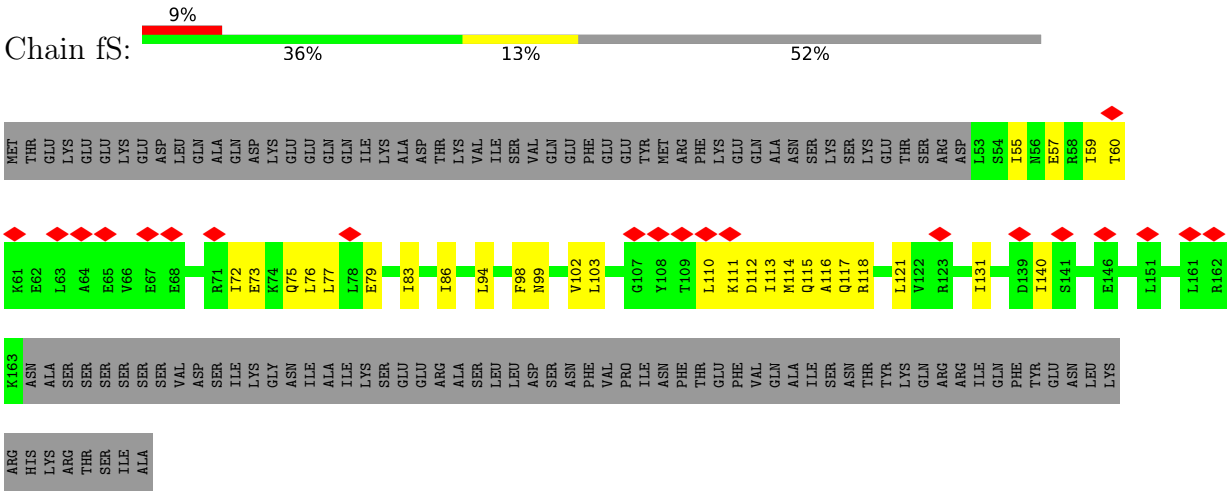


• Molecule 5: Scaffold protein

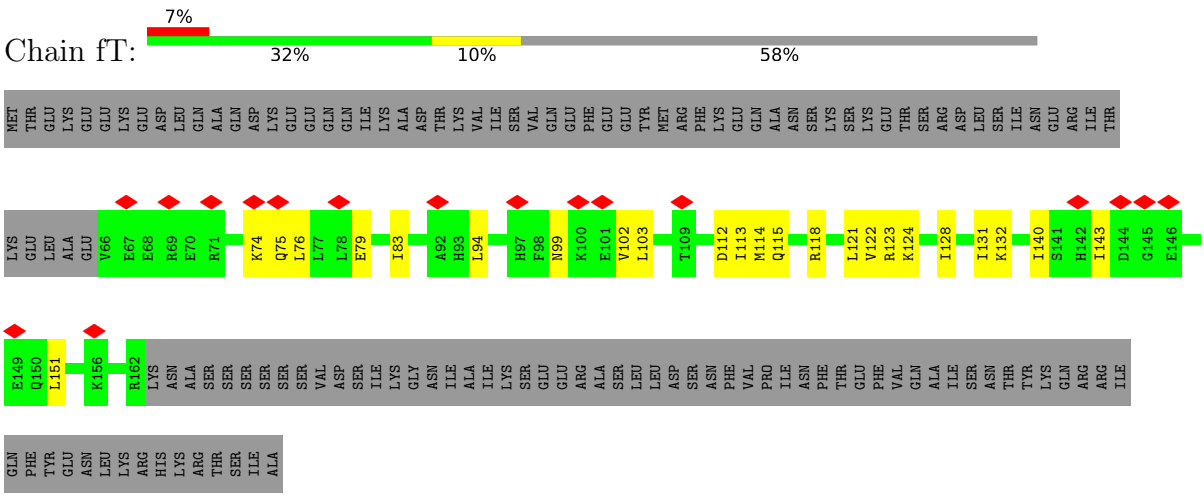




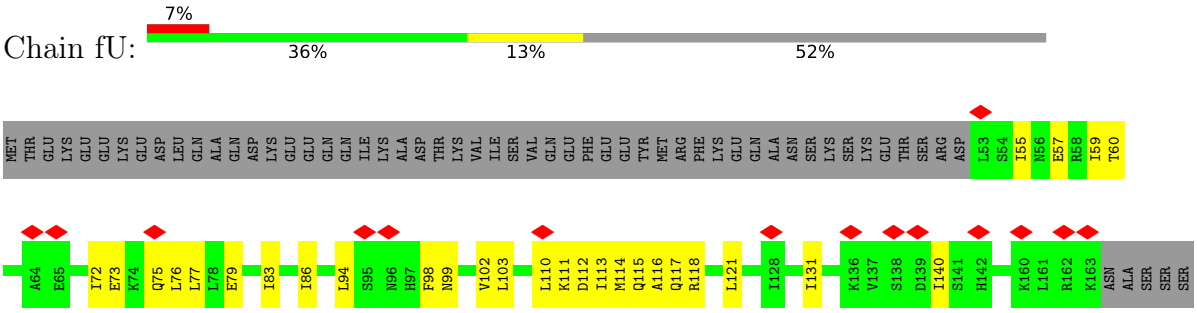
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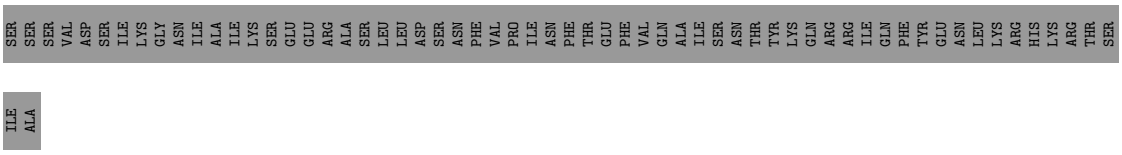


• Molecule 5: Scaffold protein



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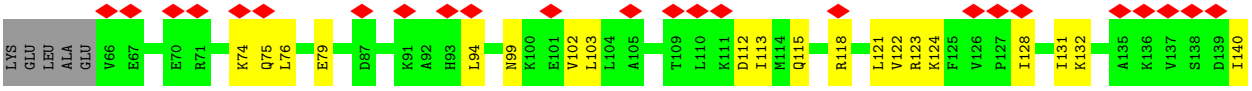


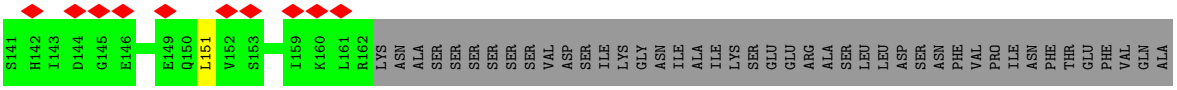
• Molecule 5: Scaffold protein

Chain fV:









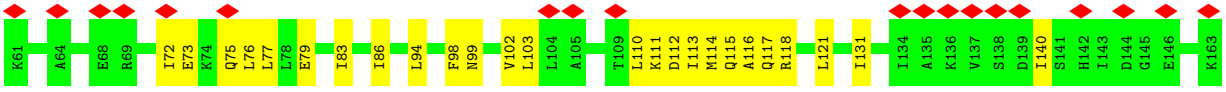


• Molecule 5: Scaffold protein

Chain fW:









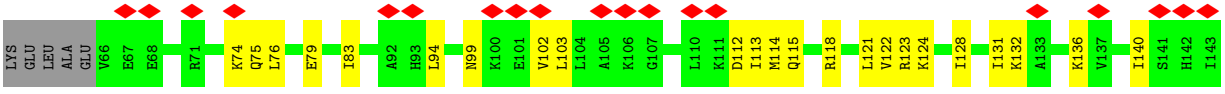


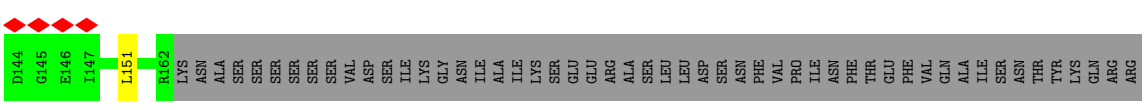
• Molecule 5: Scaffold protein

Chain fX:





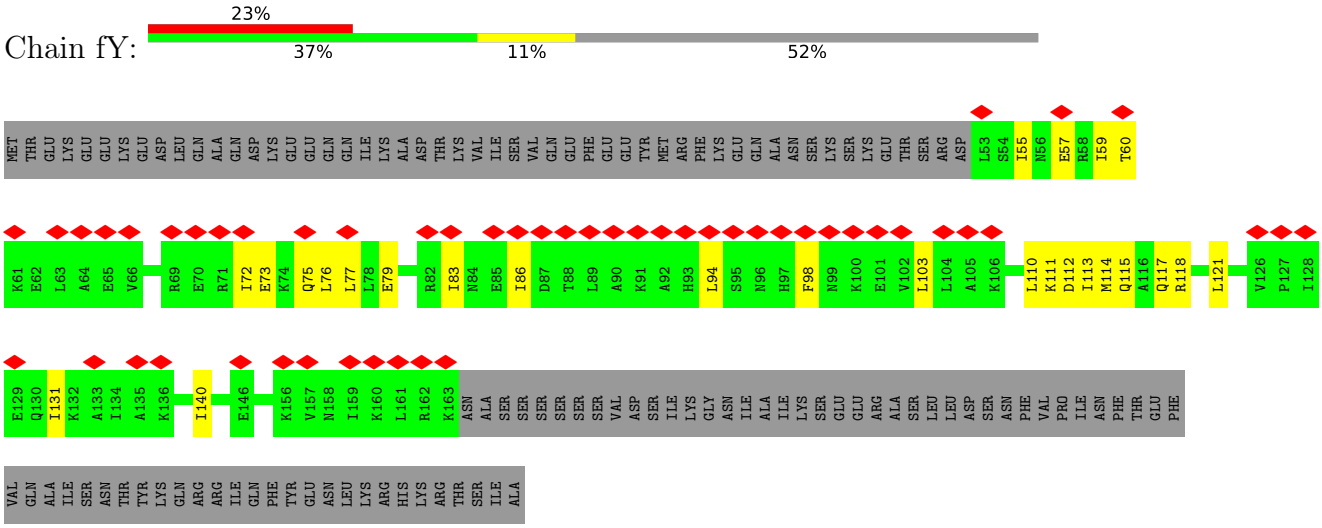






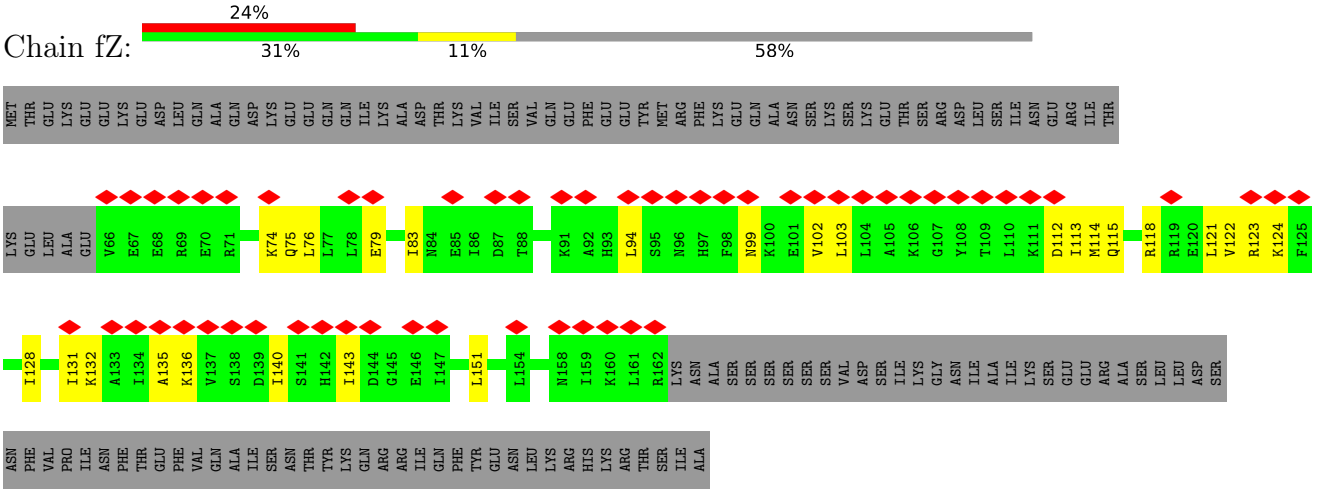
• Molecule 5: Scaffold protein

Chain fY:



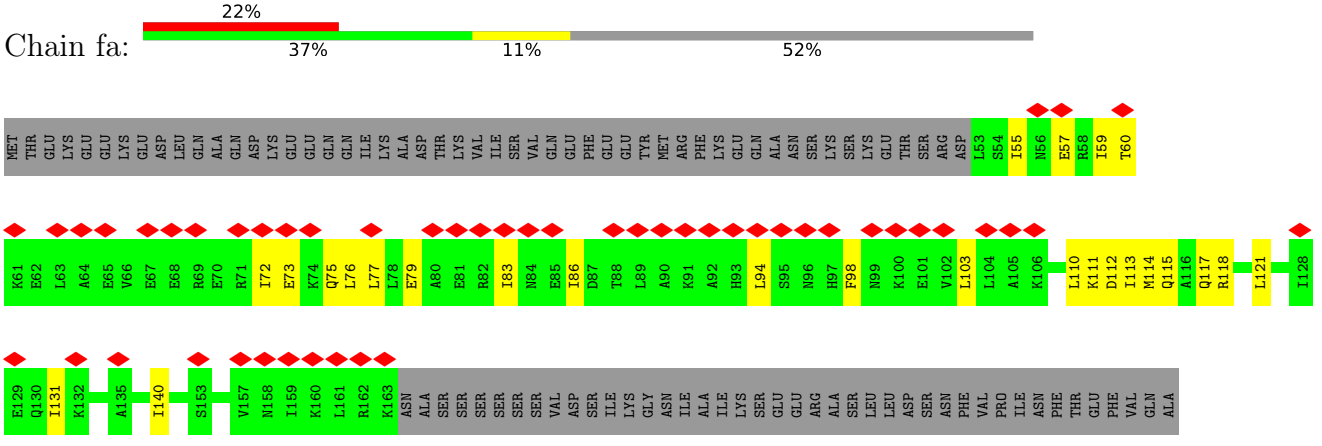
• Molecule 5: Scaffold protein

Chain fZ:



• Molecule 5: Scaffold protein

Chain fa:

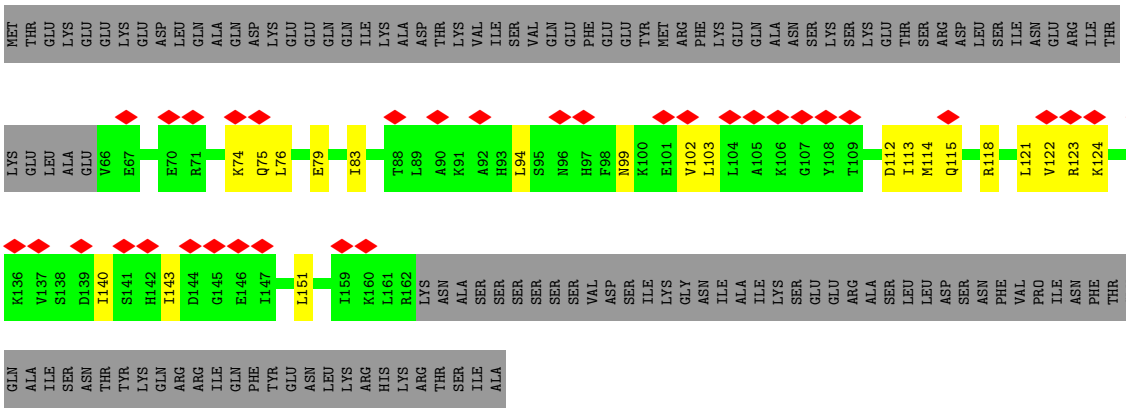




• Molecule 5: Scaffold protein

Chain fb:

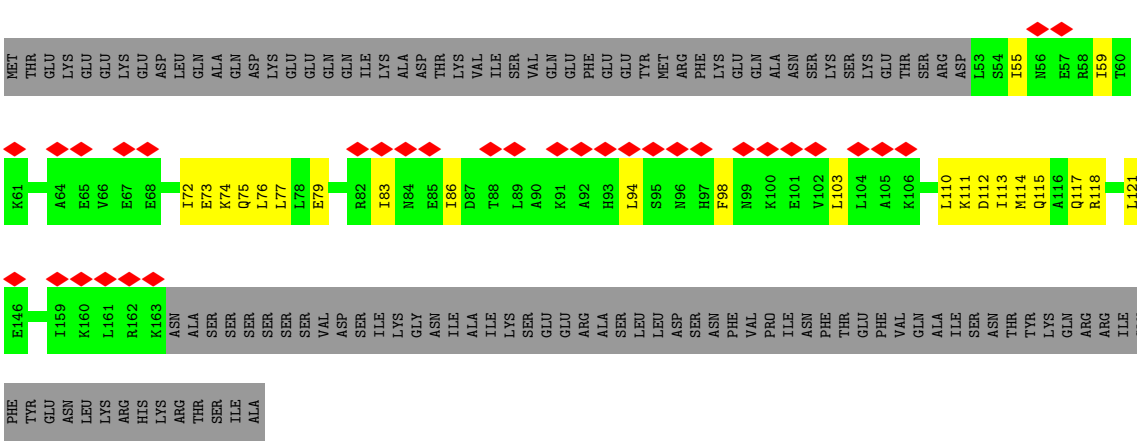




• Molecule 5: Scaffold protein

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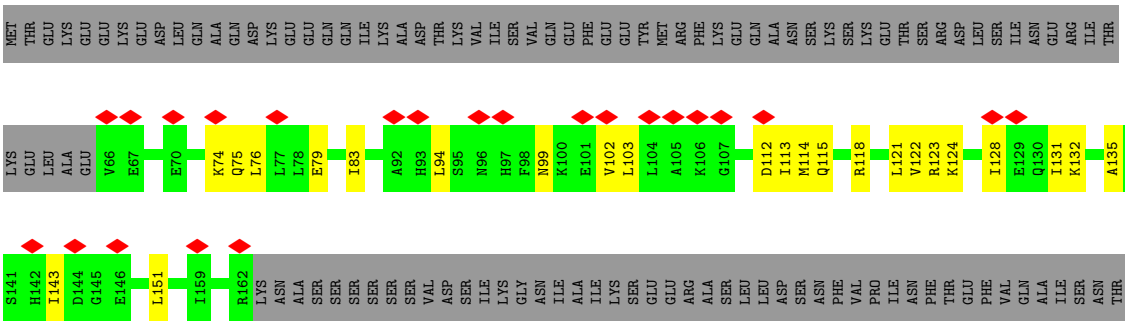




• Molecule 5: Scaffold protein

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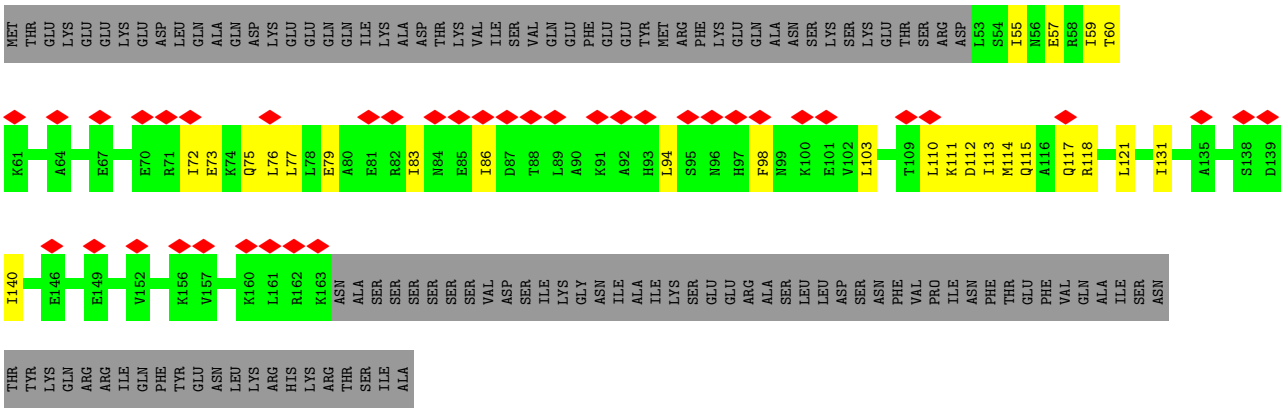




• Molecule 5: Scaffold protein

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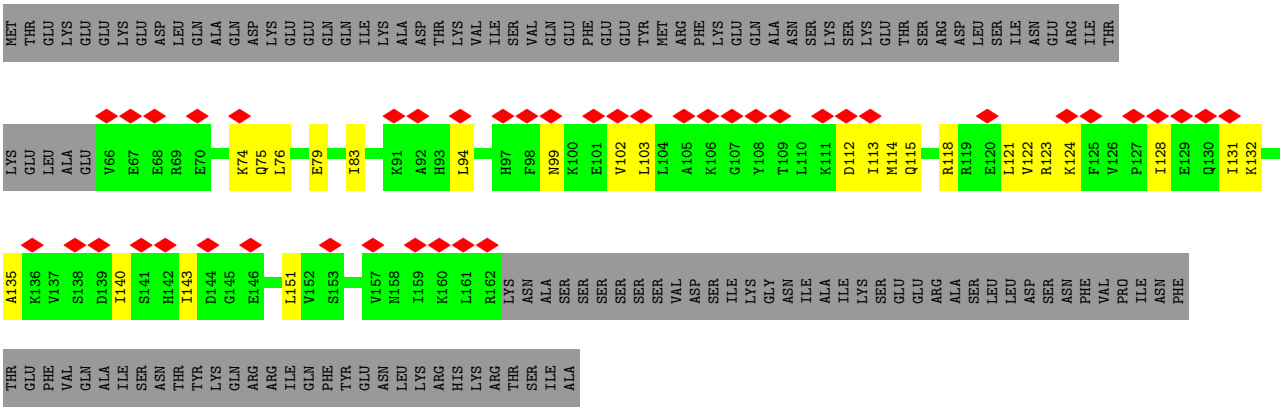




• Molecule 5: Scaffold protein

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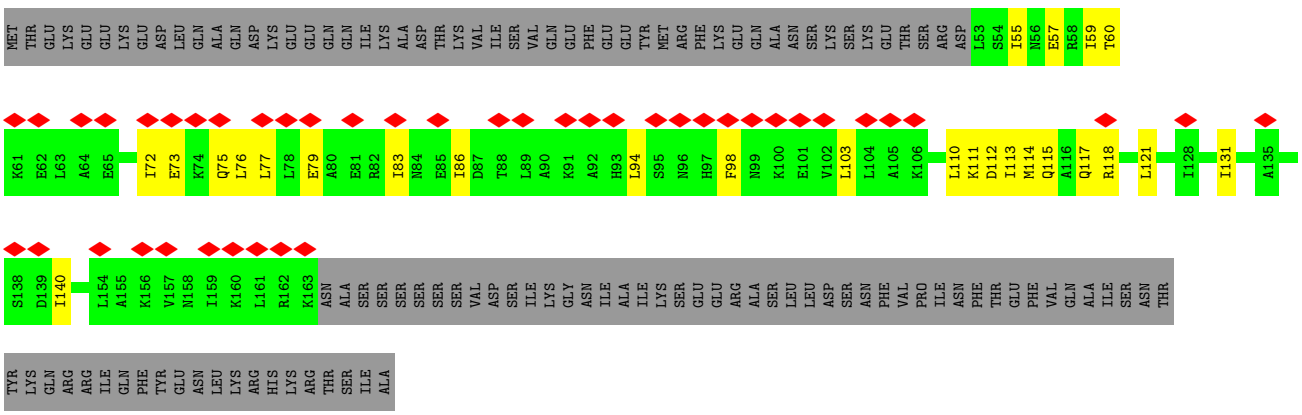




• Molecule 5: Scaffold protein

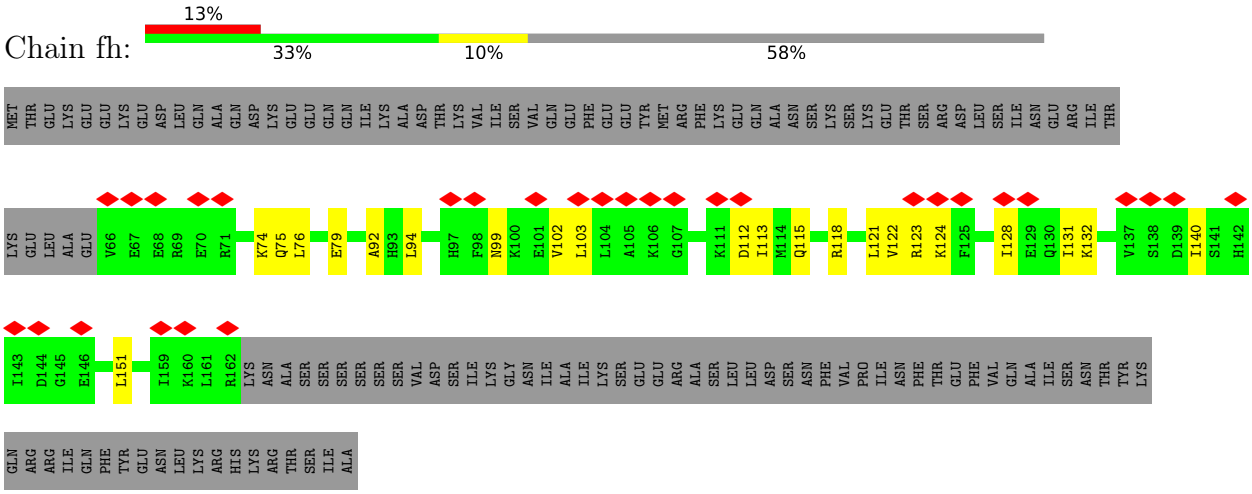
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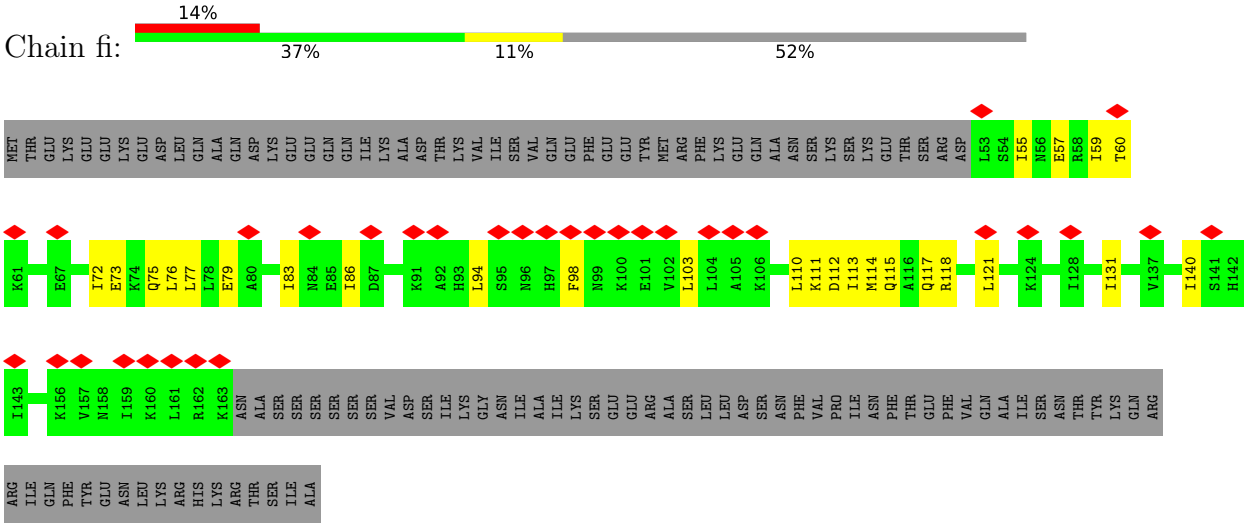
• Molecule 5: Scaffold protein

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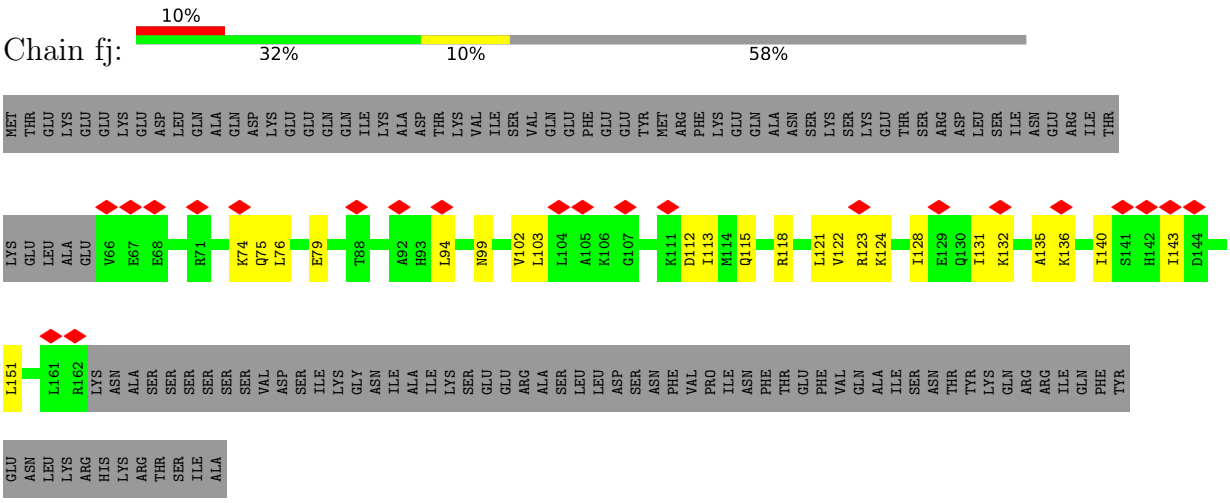
• Molecule 5: Scaffold protein

Chain fi:



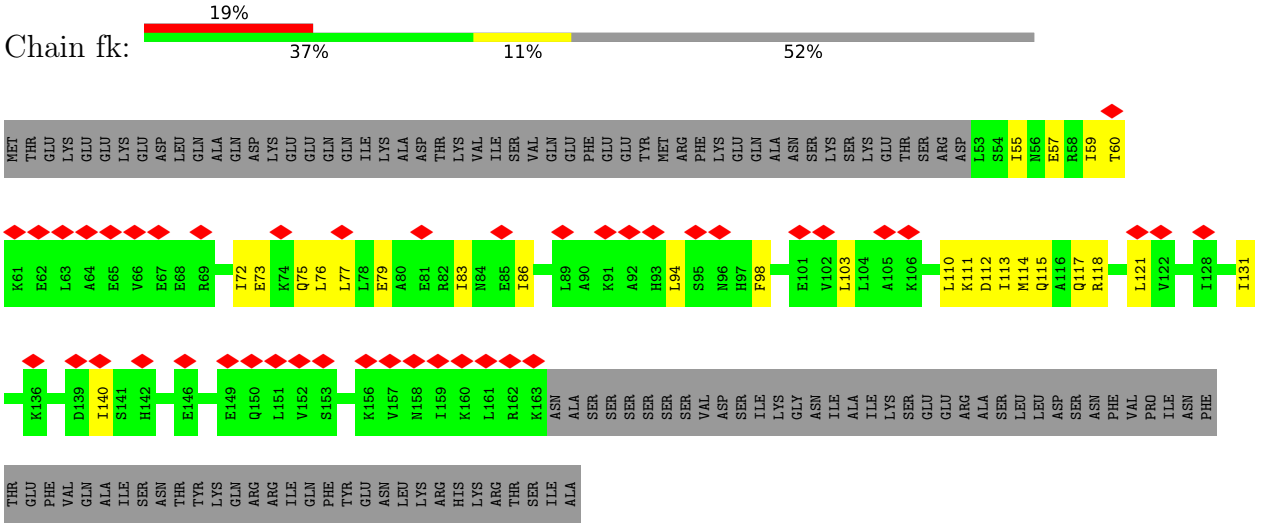
• Molecule 5: Scaffold protein

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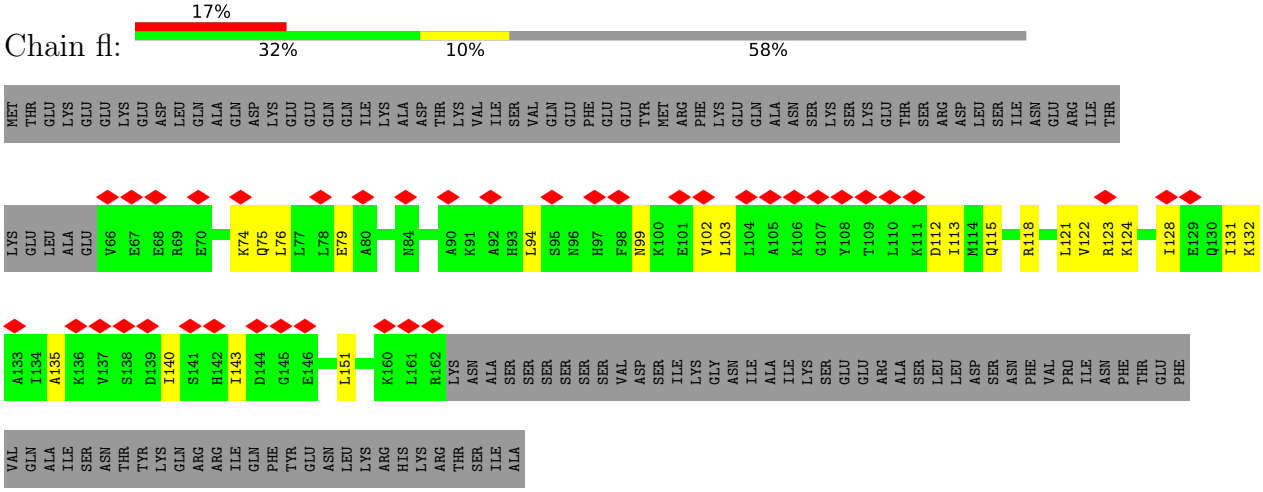
• Molecule 5: Scaffold protein

Chain fk:



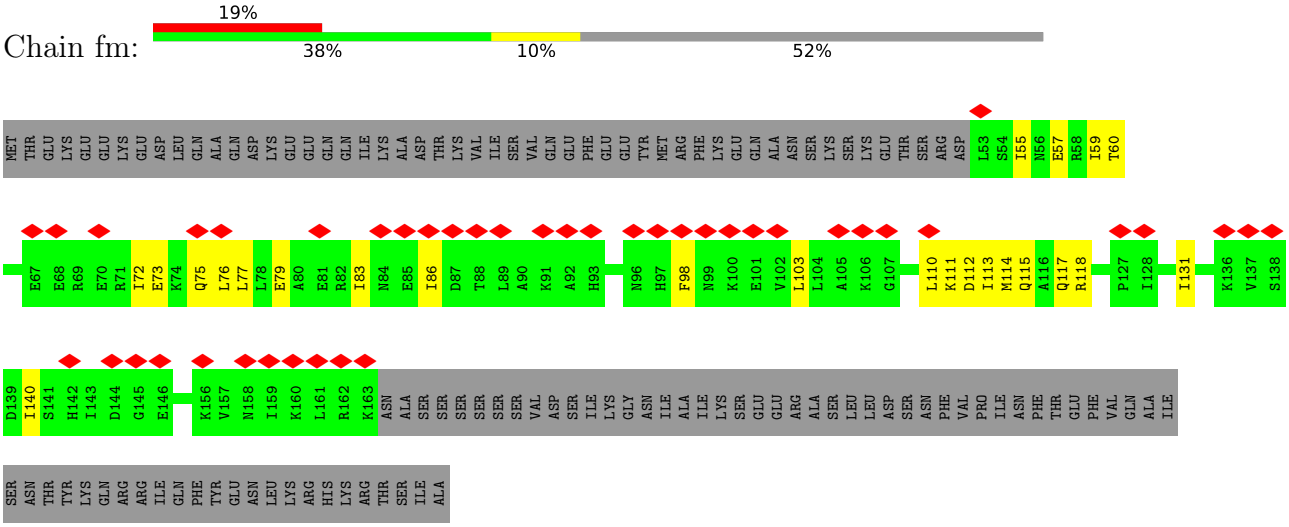
• Molecule 5: Scaffold protein

Chain fl:



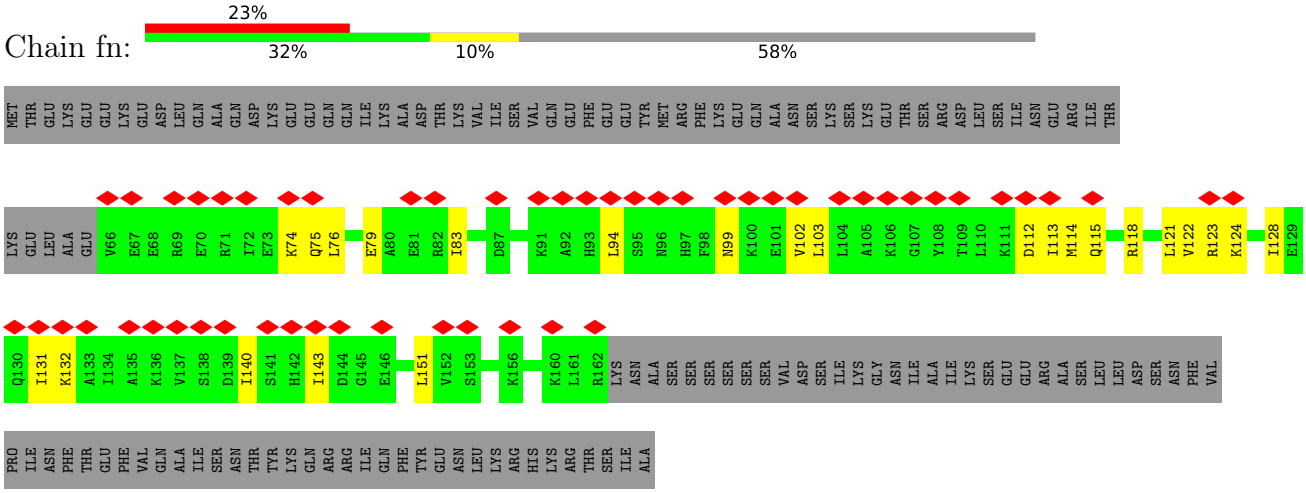
• Molecule 5: Scaffold protein

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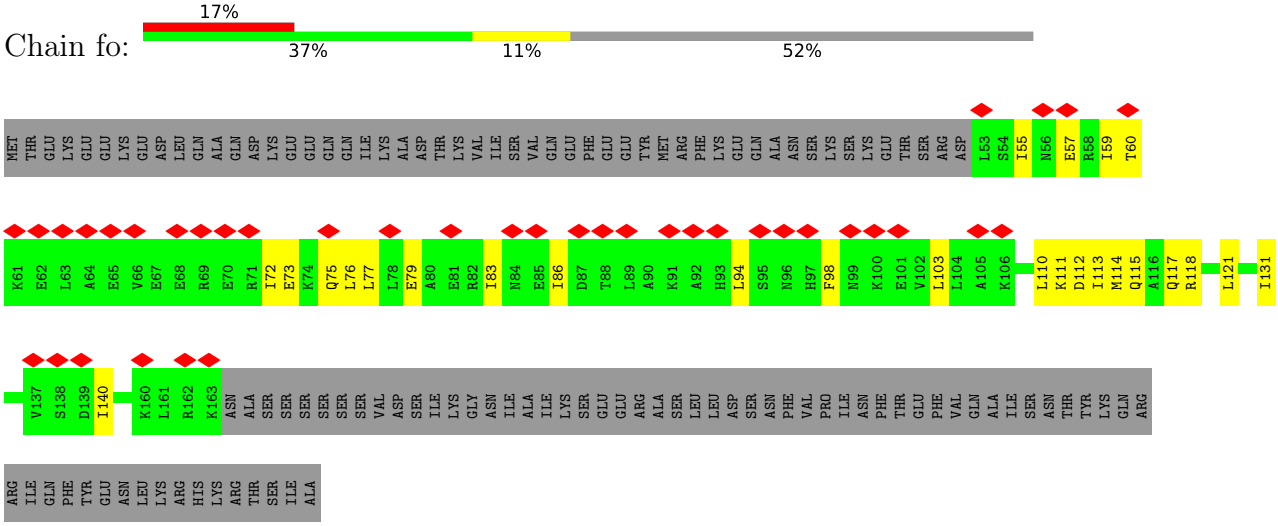
• Molecule 5: Scaffold protein

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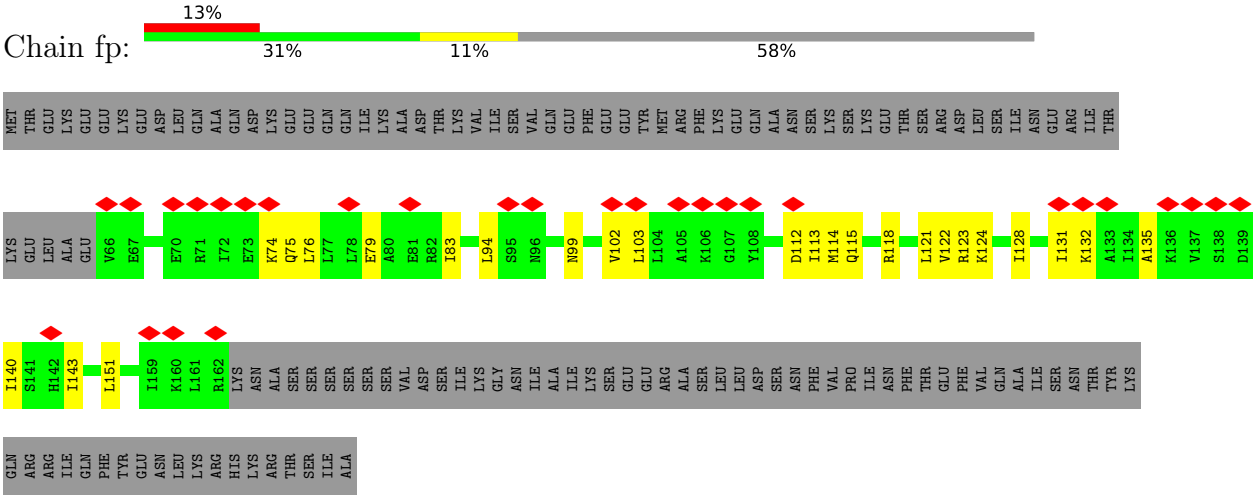
• Molecule 5: Scaffold protein

Chain fo:



• Molecule 5: Scaffold protein

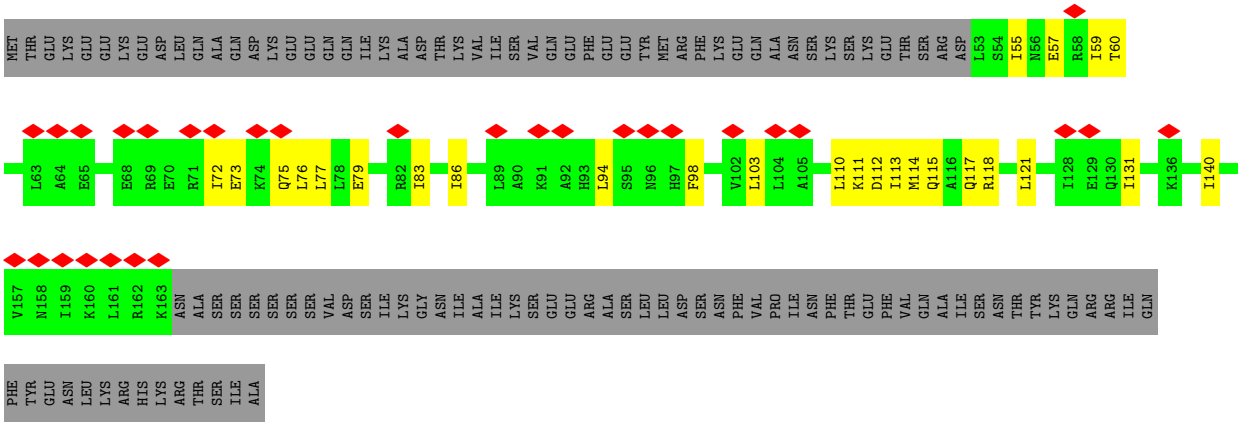
Chain fp:



• Molecule 5: Scaffold protein

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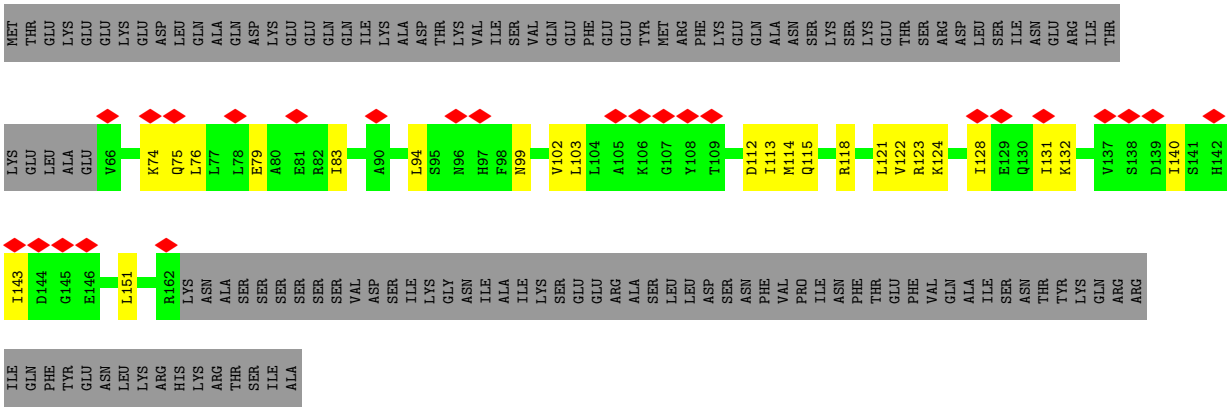




• Molecule 5: Scaffold protein

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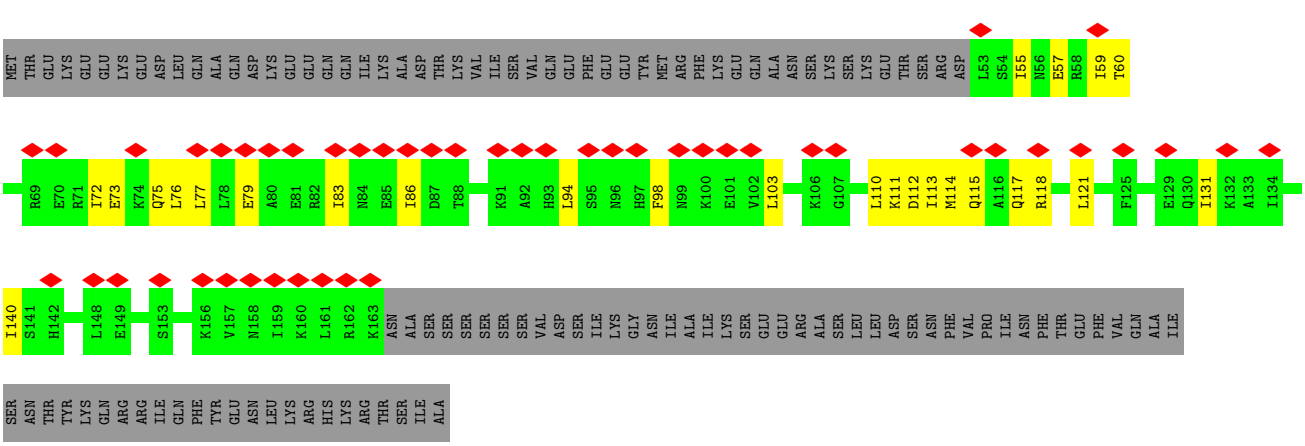




• Molecule 5: Scaffold protein

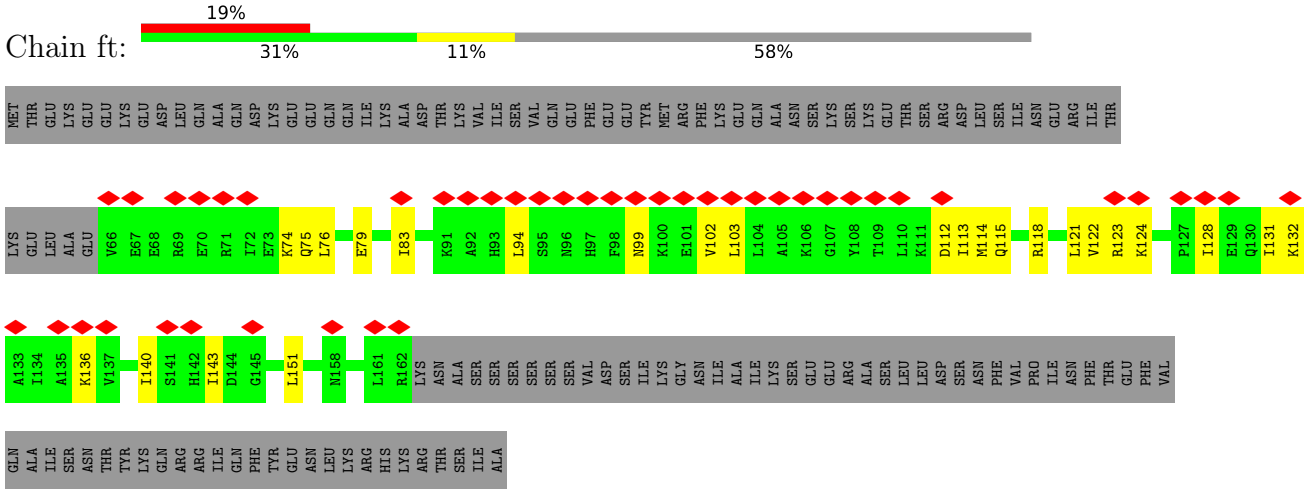
Chain fs:





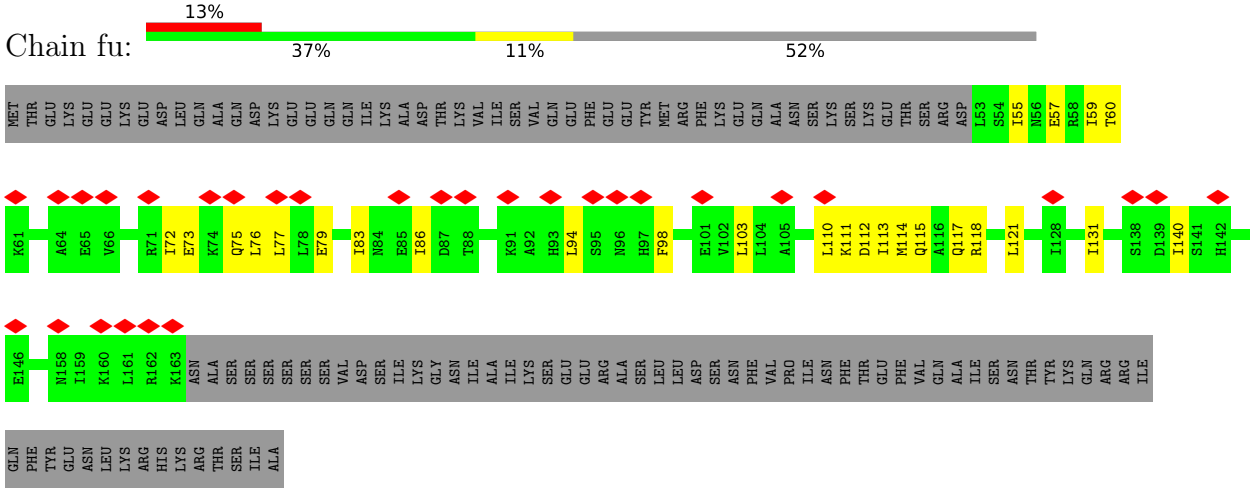
• Molecule 5: Scaffold protein

Chain ft:



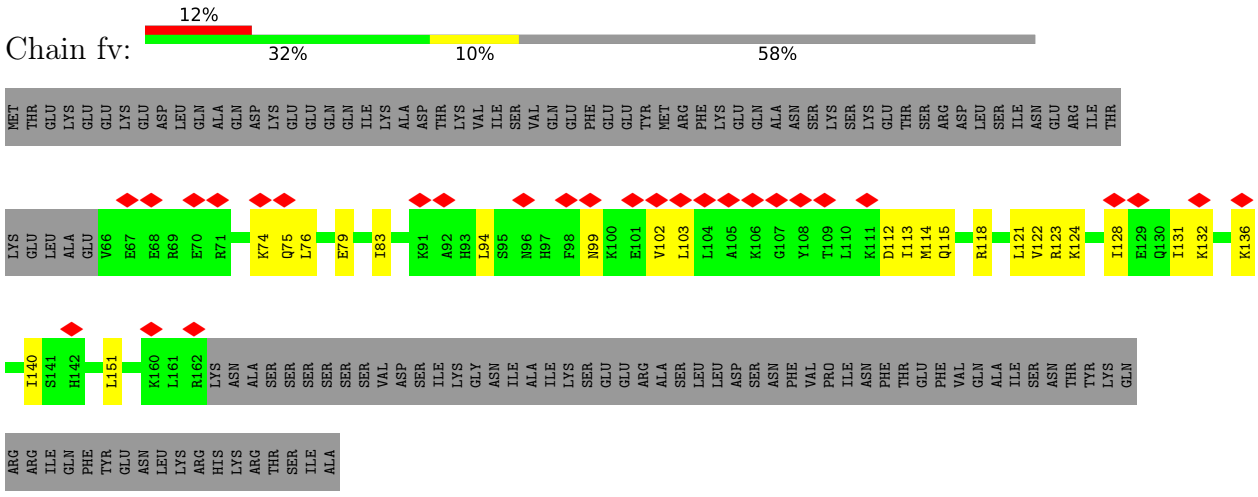
• Molecule 5: Scaffold protein

Chain fu:



• Molecule 5: Scaffold protein

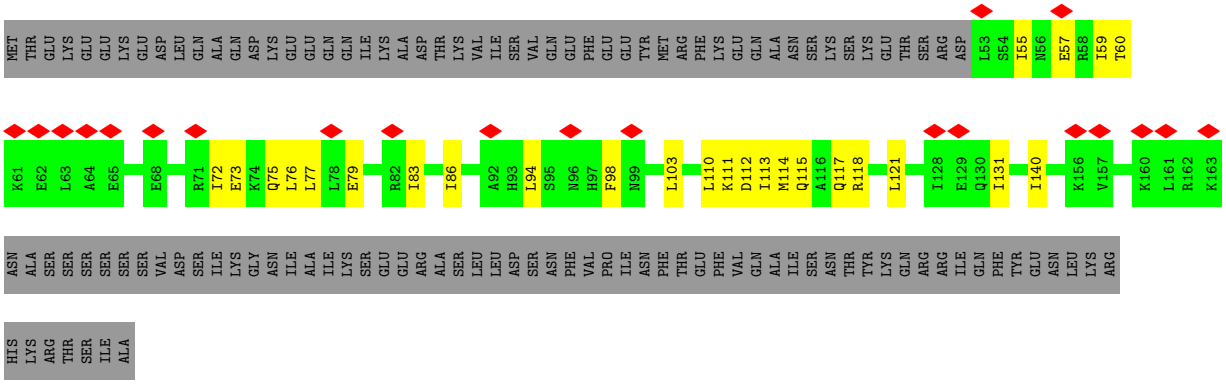
Chain fv:



• Molecule 5: Scaffold protein

Chain fw:

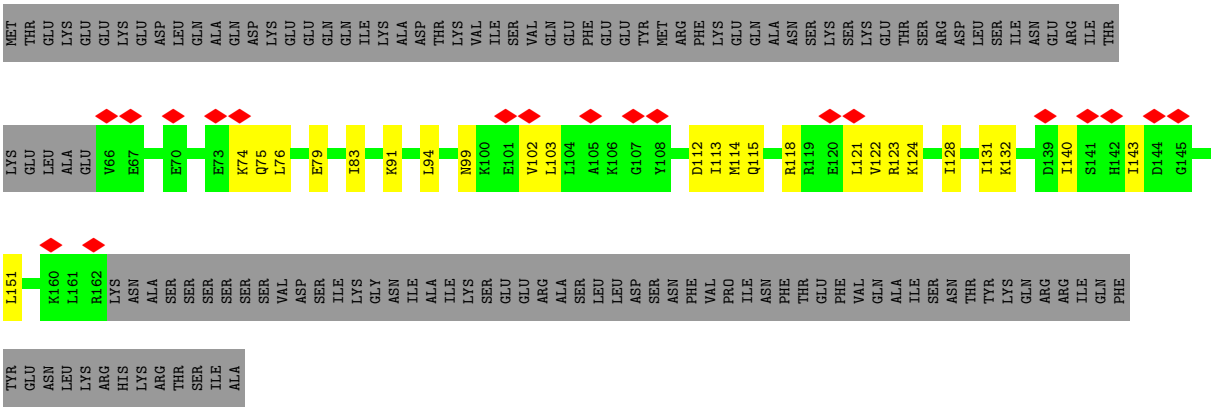




• Molecule 5: Scaffold protein

Chain fx:

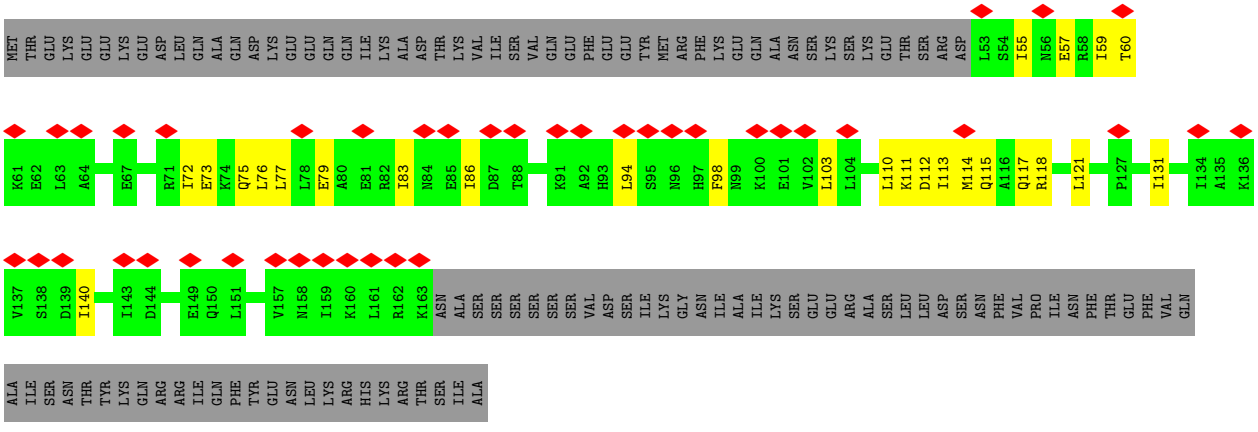




• Molecule 5: Scaffold protein

Chain fy:

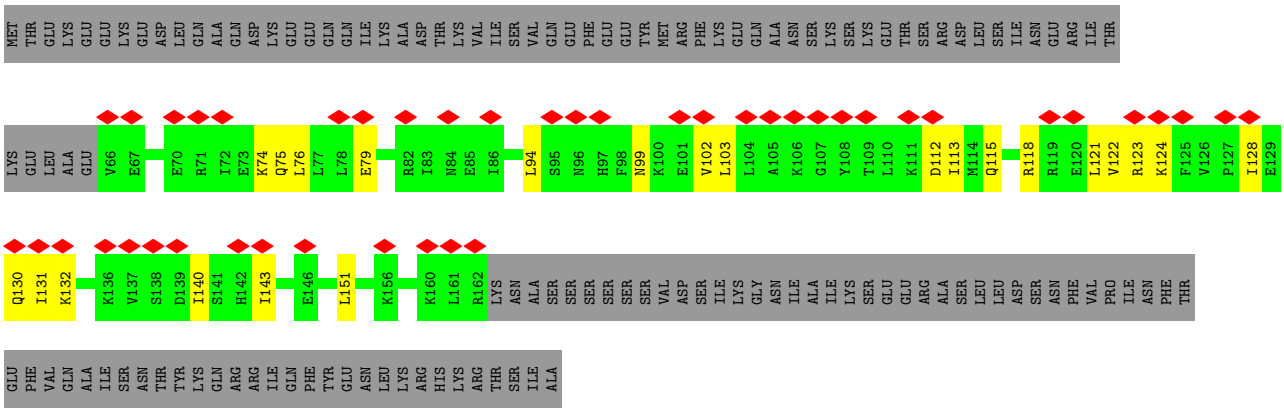




• Molecule 5: Scaffold protein

Chain fz:

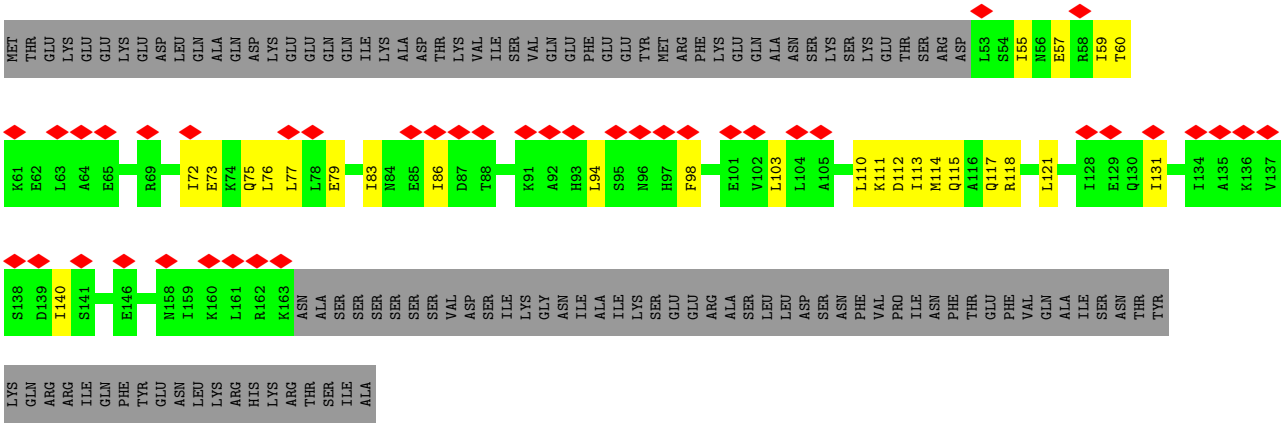




• Molecule 5: Scaffold protein

Chain gA:

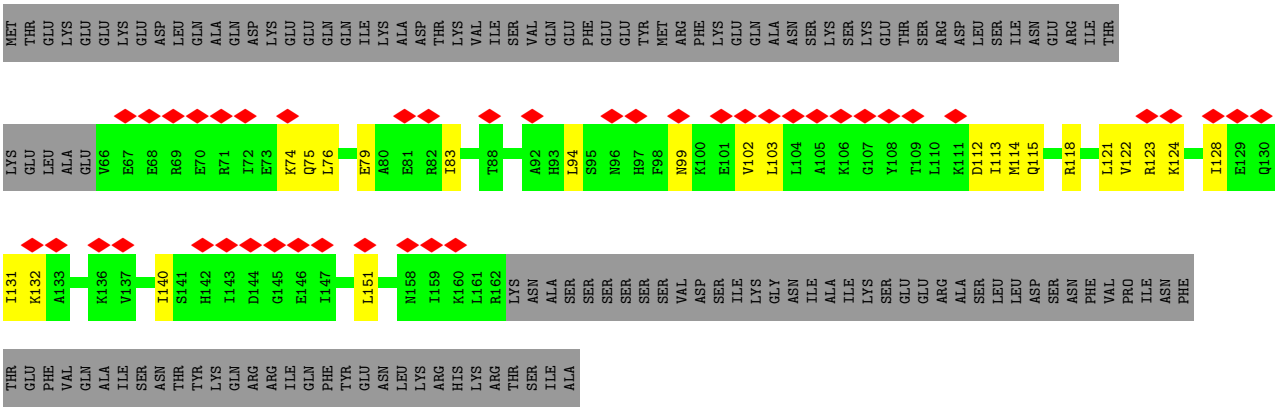




• Molecule 5: Scaffold protein

Chain gB:

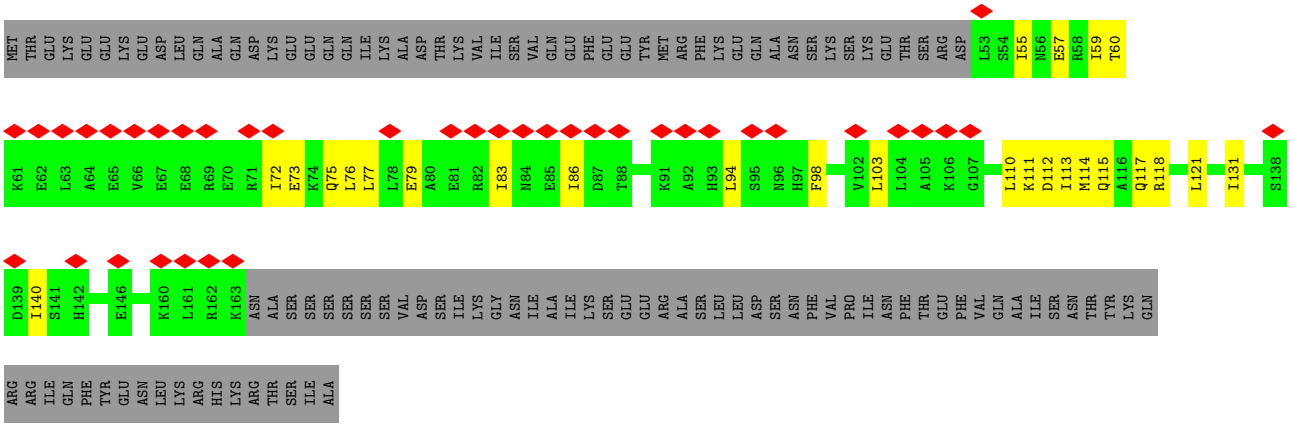




• Molecule 5: Scaffold protein

Chain gC:

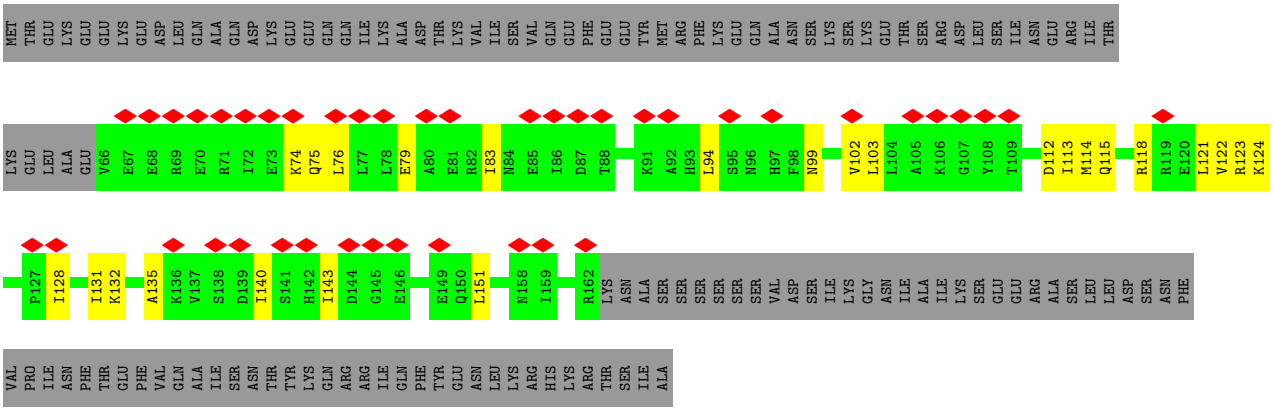




• Molecule 5: Scaffold protein

Chain gD:

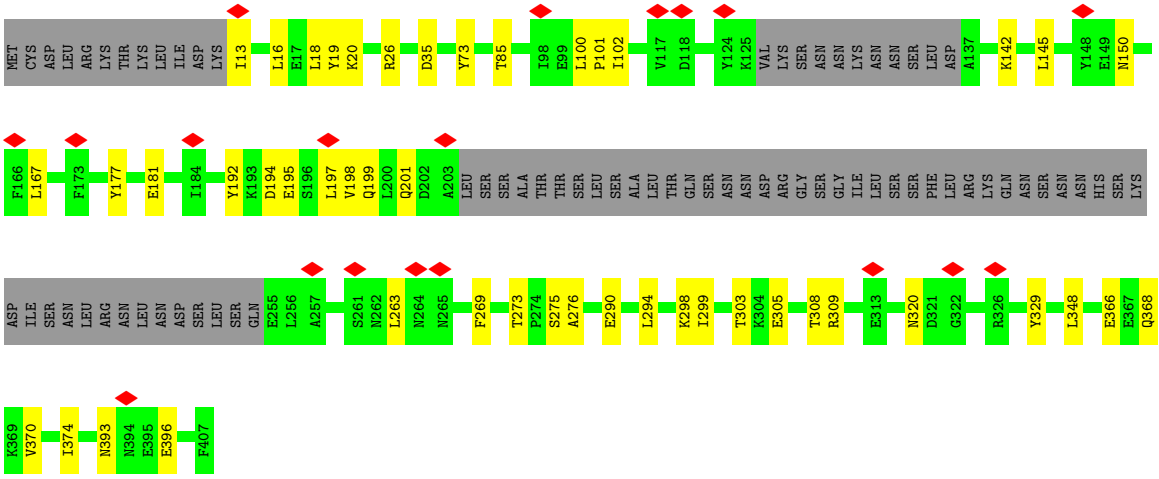




• Molecule 6: Putative phage portal protein

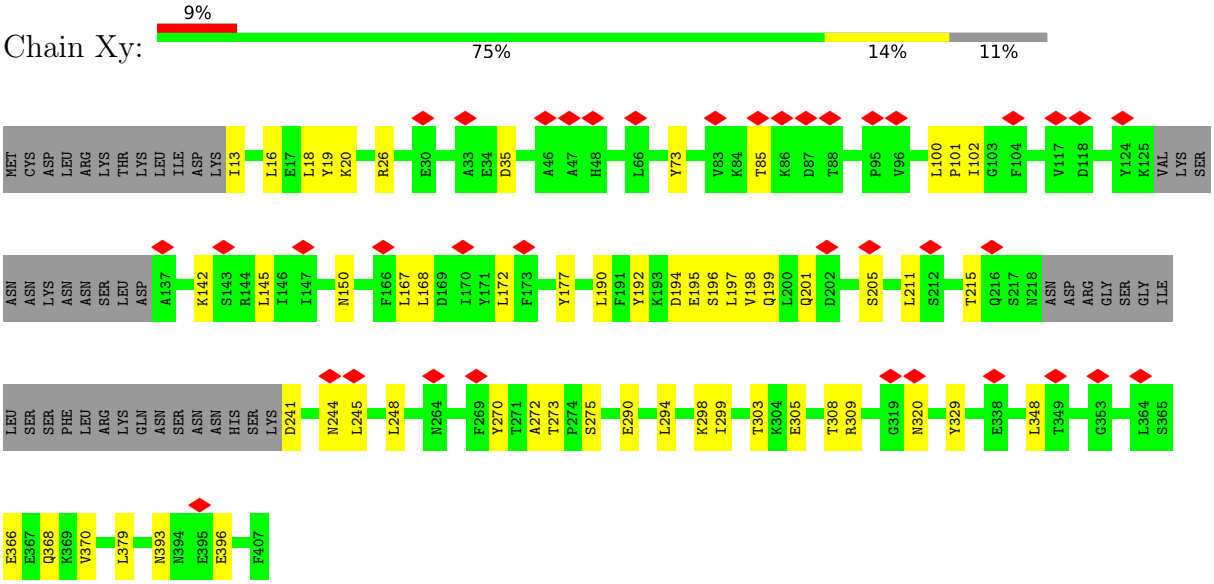
Chain Xx:





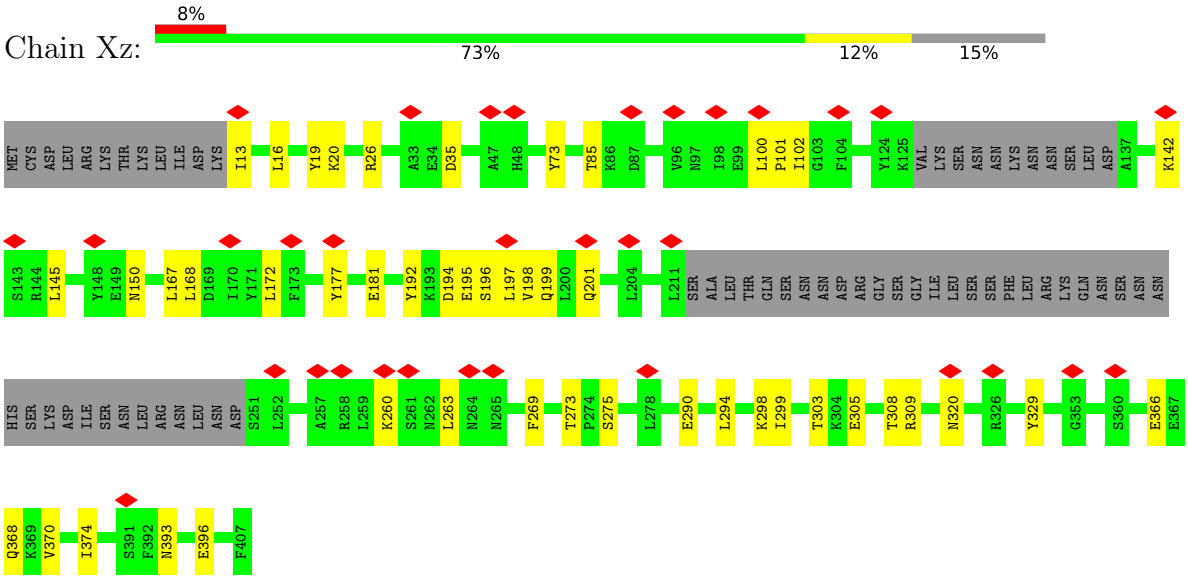
• Molecule 6: Putative phage portal protein

Chain Xy:



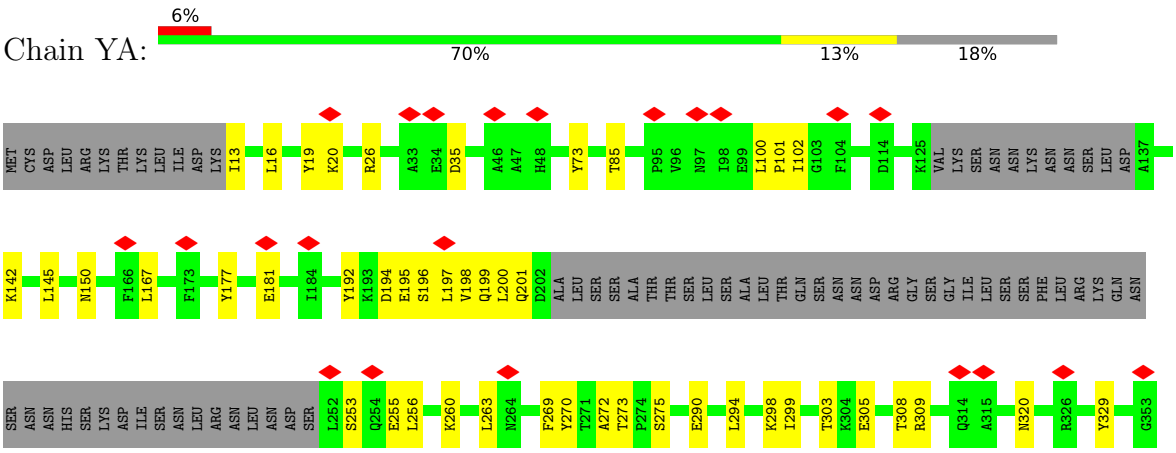
• Molecule 6: Putative phage portal protein

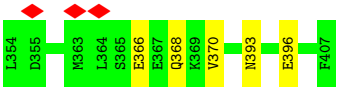
Chain Xz:



• Molecule 6: Putative phage portal protein

Chain YA:

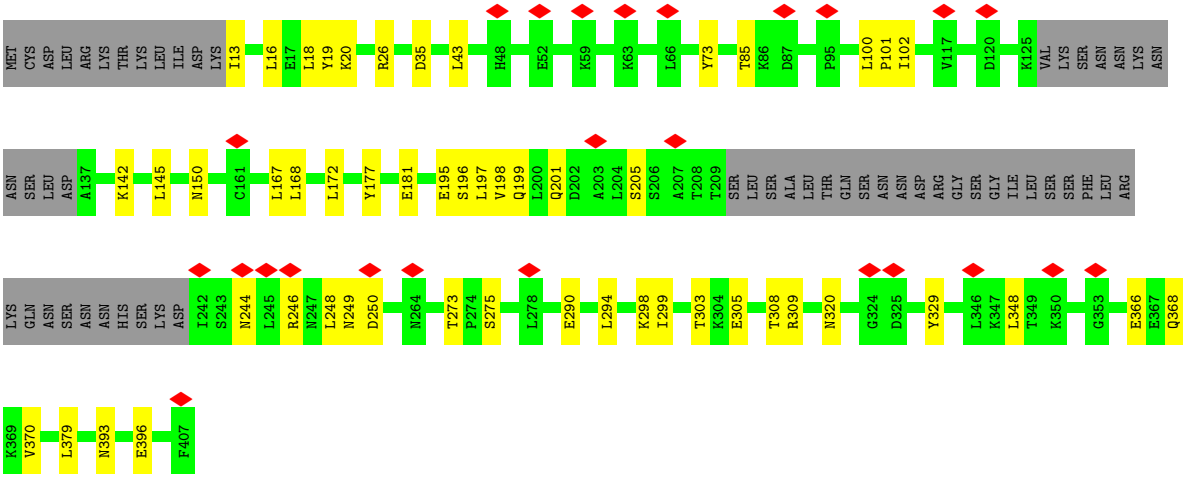




• Molecule 6: Putative phage portal protein

Chain YB:

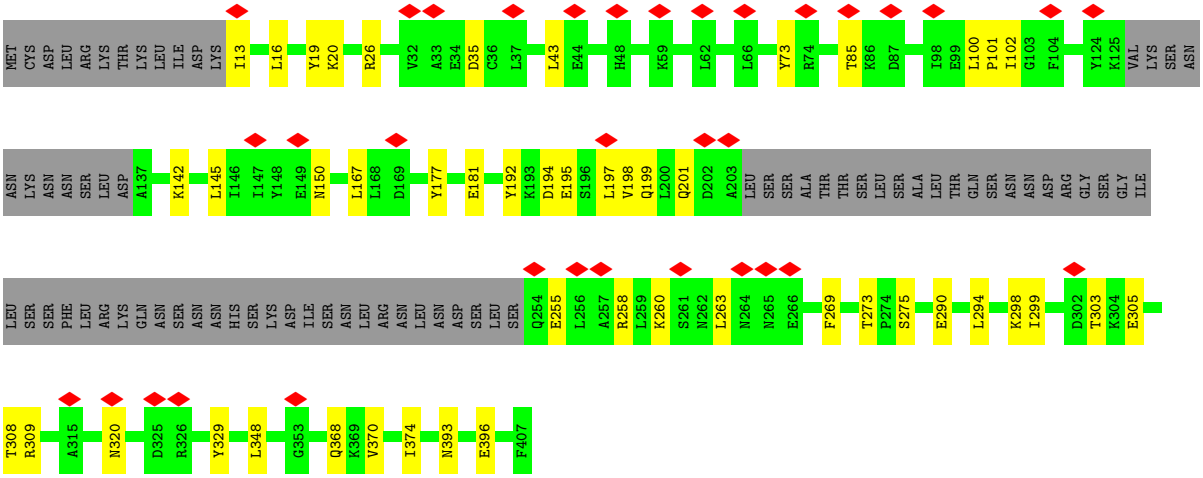




• Molecule 6: Putative phage portal protein

Chain YC:

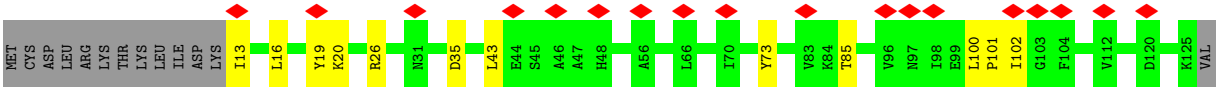


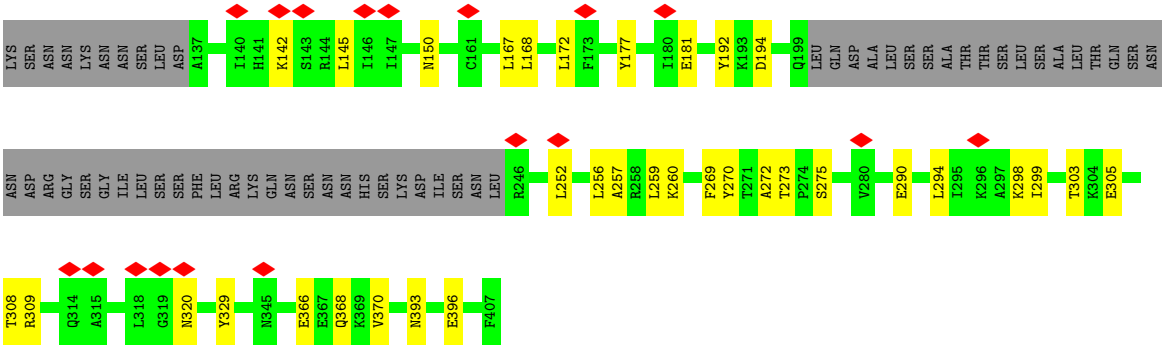


• Molecule 6: Putative phage portal protein

Chain YD:



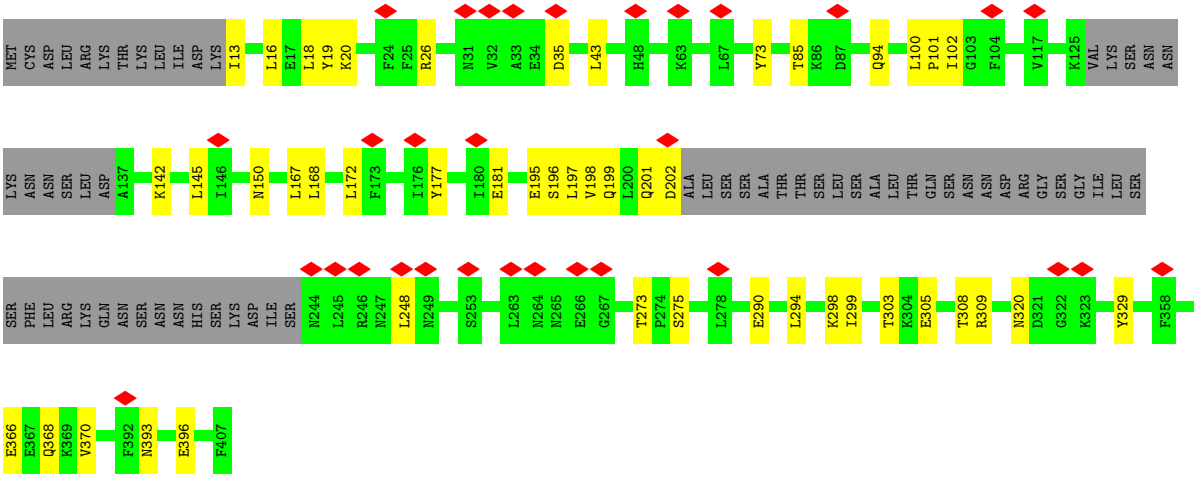




• Molecule 6: Putative phage portal protein

Chain YE:

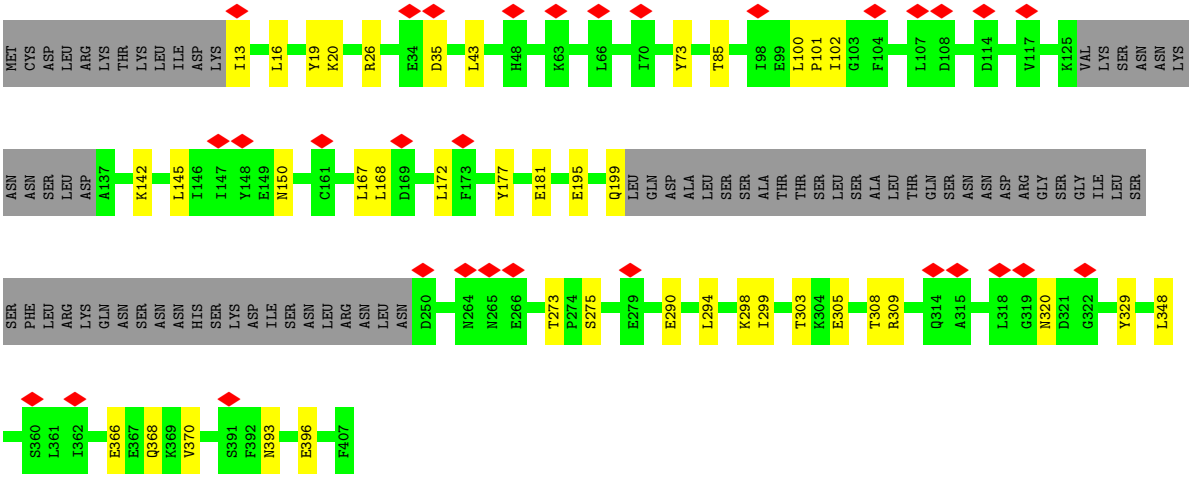




• Molecule 6: Putative phage portal protein

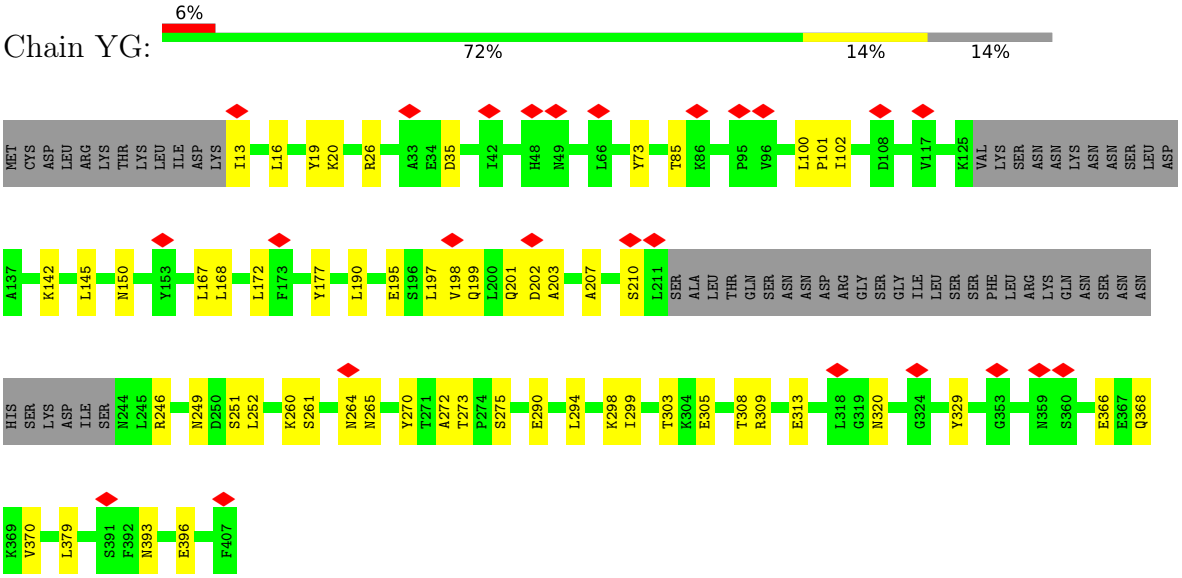
Chain YF:





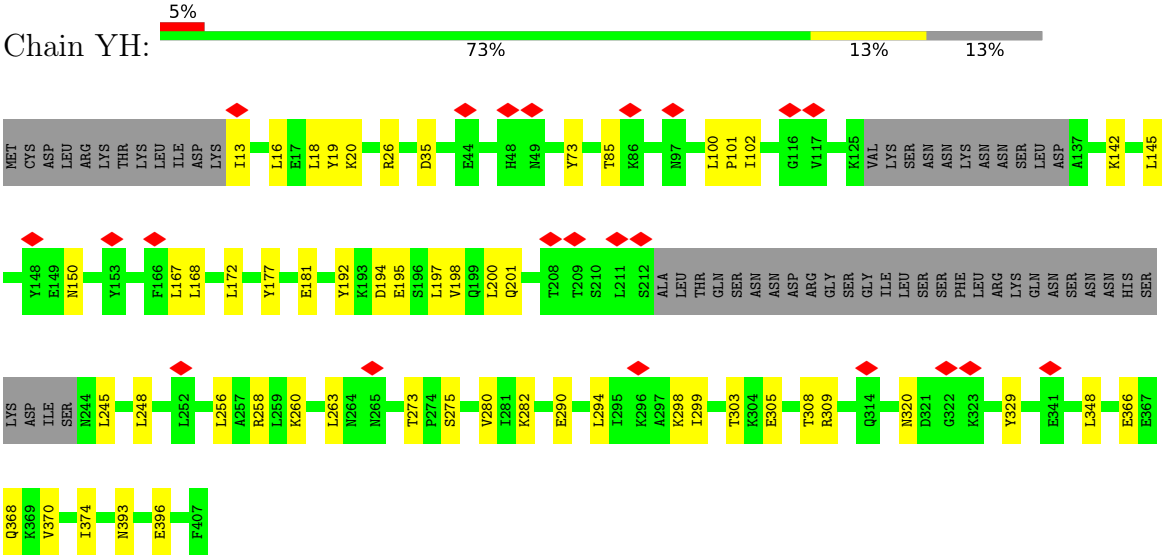
• Molecule 6: Putative phage portal protein

Chain YG:



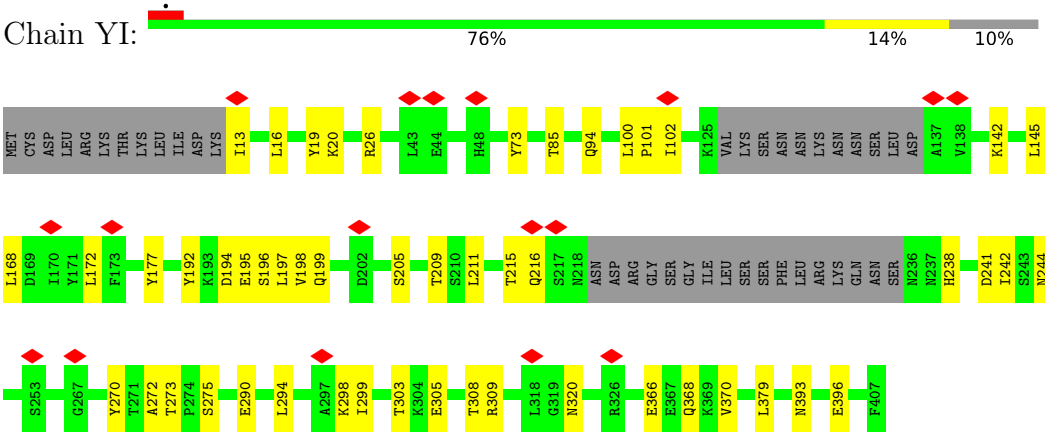
• Molecule 6: Putative phage portal protein

Chain YH:



• Molecule 6: Putative phage portal protein

Chain YI:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	5505	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 ($e^-/Å^2$)	44	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1800	Depositor
Magnification	165000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.047	Depositor
Minimum map value	-0.021	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.011	Depositor
Map size (Å)	1200.384, 1200.384, 1200.384	wwPDB
Map dimensions	720, 720, 720	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.6672001, 1.6672001, 1.6672001	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	AA	0.15	0/2536	0.25	0/3428
1	AB	0.14	0/2558	0.23	0/3458
1	AC	0.15	0/2558	0.24	0/3458
1	AD	0.15	0/2536	0.23	0/3428
1	AE	0.14	0/2558	0.23	0/3458
1	AF	0.15	0/2558	0.24	0/3458
1	AG	0.15	0/2536	0.23	0/3428
1	AH	0.15	0/2558	0.24	0/3458
1	AI	0.15	0/2558	0.24	0/3458
1	AJ	0.15	0/2536	0.24	0/3428
1	AK	0.14	0/2558	0.24	0/3458
1	AL	0.14	0/2558	0.24	0/3458
1	AM	0.15	0/2536	0.24	0/3428
1	AN	0.14	0/2558	0.24	0/3458
1	AO	0.14	0/2558	0.23	0/3458
1	AP	0.15	0/2536	0.23	0/3428
1	AQ	0.15	0/2558	0.26	0/3458
1	AR	0.15	0/2558	0.25	0/3458
1	AS	0.14	0/2558	0.25	0/3458
1	AT	0.14	0/2558	0.23	0/3458
1	AU	0.13	0/2558	0.25	0/3458
1	AV	0.13	0/2558	0.24	0/3458
1	AW	0.14	0/2558	0.25	0/3458
1	AX	0.14	0/2558	0.24	0/3458
1	AY	0.13	0/2558	0.24	0/3458
1	AZ	0.13	0/2558	0.23	0/3458
1	Aa	0.13	0/2558	0.24	0/3458
1	Ab	0.13	0/2558	0.23	0/3458
1	Ac	0.13	0/2449	0.23	0/3309
1	Ad	0.14	0/2536	0.23	0/3428
1	Ae	0.13	0/2558	0.23	0/3458
1	Af	0.14	0/2558	0.22	0/3458
1	Ag	0.14	0/2536	0.22	0/3428
1	Ah	0.14	0/2558	0.23	0/3458

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Ai	0.14	0/2558	0.23	0/3458
1	Aj	0.15	0/2536	0.23	0/3428
1	Ak	0.14	0/2558	0.24	0/3458
1	Al	0.14	0/2558	0.22	0/3458
1	Am	0.16	0/2553	0.23	0/3450
1	An	0.14	0/2558	0.23	0/3458
1	Ao	0.14	0/2558	0.23	0/3458
1	Ap	0.14	0/2536	0.23	0/3428
1	Aq	0.14	0/2558	0.22	0/3458
1	Ar	0.16	0/2553	0.26	0/3450
1	As	0.14	0/2558	0.24	0/3458
1	At	0.14	0/2428	0.23	0/3281
1	Au	0.14	0/2558	0.24	0/3458
1	Av	0.14	0/2558	0.23	0/3458
1	Aw	0.14	0/2558	0.24	0/3458
1	Ax	0.13	0/2428	0.22	0/3281
1	Ay	0.13	0/2558	0.23	0/3458
1	Az	0.13	0/2558	0.23	0/3458
1	BA	0.13	0/2558	0.24	0/3458
1	BB	0.13	0/2558	0.23	0/3458
1	BC	0.13	0/2558	0.23	0/3458
1	BD	0.13	0/2558	0.23	0/3458
1	BE	0.13	0/2558	0.23	0/3458
1	BF	0.13	0/2558	0.23	0/3458
1	BG	0.13	0/2558	0.23	0/3458
1	BH	0.13	0/2558	0.22	0/3458
1	BI	0.13	0/2558	0.24	0/3458
1	BJ	0.13	0/2558	0.23	0/3458
1	BK	0.14	0/2558	0.25	0/3458
1	BL	0.13	0/2558	0.24	0/3458
1	BM	0.13	0/2558	0.23	0/3458
1	BN	0.13	0/2558	0.23	0/3458
1	BO	0.13	0/2558	0.23	0/3458
1	BP	0.13	0/2558	0.23	0/3458
1	BQ	0.13	0/2558	0.23	0/3458
1	BR	0.13	0/2558	0.23	0/3458
1	BS	0.13	0/2558	0.23	0/3458
1	BT	0.13	0/2558	0.24	0/3458
1	BU	0.13	0/2558	0.23	0/3458
1	BV	0.13	0/2558	0.24	0/3458
1	BW	0.13	0/2558	0.23	0/3458
1	BX	0.13	0/2558	0.24	0/3458
1	BY	0.13	0/2558	0.23	0/3458

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	BZ	0.13	0/2558	0.25	0/3458
1	Ba	0.13	0/2558	0.22	0/3458
1	Bb	0.13	0/2558	0.23	0/3458
1	Bc	0.13	0/2558	0.23	0/3458
1	Bd	0.13	0/2558	0.22	0/3458
1	Be	0.13	0/2558	0.23	0/3458
1	Ep	0.15	0/2536	0.25	0/3428
1	Eq	0.14	0/2558	0.23	0/3458
1	Er	0.15	0/2558	0.24	0/3458
1	Es	0.15	0/2536	0.23	0/3428
1	Et	0.14	0/2558	0.23	0/3458
1	Eu	0.15	0/2558	0.24	0/3458
1	Ev	0.15	0/2536	0.23	0/3428
1	Ew	0.15	0/2558	0.24	0/3458
1	Ex	0.15	0/2558	0.24	0/3458
1	Ey	0.15	0/2536	0.24	0/3428
1	Ez	0.14	0/2558	0.24	0/3458
1	FA	0.14	0/2558	0.24	0/3458
1	FB	0.15	0/2536	0.24	0/3428
1	FC	0.14	0/2558	0.23	0/3458
1	FD	0.14	0/2558	0.24	0/3458
1	FE	0.15	0/2536	0.23	0/3428
1	FF	0.15	0/2558	0.26	0/3458
1	FG	0.15	0/2558	0.25	0/3458
1	FH	0.14	0/2558	0.25	0/3458
1	FI	0.14	0/2558	0.23	0/3458
1	FJ	0.13	0/2558	0.25	0/3458
1	FK	0.13	0/2558	0.24	0/3458
1	FL	0.14	0/2558	0.25	0/3458
1	FM	0.14	0/2558	0.24	0/3458
1	FN	0.13	0/2558	0.24	0/3458
1	FO	0.13	0/2558	0.23	0/3458
1	FP	0.13	0/2558	0.24	0/3458
1	FQ	0.13	0/2558	0.23	0/3458
1	FR	0.13	0/2449	0.23	0/3309
1	FS	0.14	0/2536	0.23	0/3428
1	FT	0.13	0/2558	0.23	0/3458
1	FU	0.14	0/2558	0.22	0/3458
1	FV	0.14	0/2536	0.22	0/3428
1	FW	0.14	0/2558	0.23	0/3458
1	FX	0.14	0/2558	0.23	0/3458
1	FY	0.15	0/2536	0.23	0/3428
1	FZ	0.14	0/2558	0.25	0/3458

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Fa	0.14	0/2558	0.22	0/3458
1	Fb	0.16	0/2553	0.23	0/3450
1	Fc	0.14	0/2558	0.23	0/3458
1	Fd	0.14	0/2558	0.23	0/3458
1	Fe	0.14	0/2536	0.23	0/3428
1	Ff	0.14	0/2558	0.22	0/3458
1	Fg	0.16	0/2553	0.26	0/3450
1	Fh	0.14	0/2558	0.24	0/3458
1	Fi	0.14	0/2428	0.23	0/3281
1	Fj	0.14	0/2558	0.24	0/3458
1	Fk	0.14	0/2558	0.23	0/3458
1	Fl	0.14	0/2558	0.24	0/3458
1	Fm	0.13	0/2428	0.22	0/3281
1	Fn	0.14	0/2558	0.23	0/3458
1	Fo	0.13	0/2558	0.23	0/3458
1	Fp	0.13	0/2558	0.24	0/3458
1	Fq	0.13	0/2558	0.23	0/3458
1	Fr	0.13	0/2558	0.23	0/3458
1	Fs	0.13	0/2558	0.23	0/3458
1	Ft	0.13	0/2558	0.23	0/3458
1	Fu	0.13	0/2558	0.23	0/3458
1	Fv	0.13	0/2558	0.23	0/3458
1	Fw	0.13	0/2558	0.22	0/3458
1	Fx	0.13	0/2558	0.24	0/3458
1	Fy	0.13	0/2558	0.23	0/3458
1	Fz	0.14	0/2558	0.25	0/3458
1	GA	0.13	0/2558	0.24	0/3458
1	GB	0.13	0/2558	0.23	0/3458
1	GC	0.13	0/2558	0.23	0/3458
1	GD	0.13	0/2558	0.23	0/3458
1	GE	0.13	0/2558	0.23	0/3458
1	GF	0.13	0/2558	0.23	0/3458
1	GG	0.13	0/2558	0.23	0/3458
1	GH	0.13	0/2558	0.23	0/3458
1	GI	0.13	0/2558	0.24	0/3458
1	GJ	0.13	0/2558	0.23	0/3458
1	GK	0.13	0/2558	0.23	0/3458
1	GL	0.13	0/2558	0.23	0/3458
1	GM	0.13	0/2558	0.24	0/3458
1	GN	0.13	0/2558	0.23	0/3458
1	GO	0.13	0/2558	0.25	0/3458
1	GP	0.13	0/2558	0.22	0/3458
1	GQ	0.13	0/2558	0.23	0/3458

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	GR	0.13	0/2558	0.23	0/3458
1	GS	0.13	0/2558	0.22	0/3458
1	GT	0.13	0/2558	0.23	0/3458
1	Je	0.15	0/2536	0.25	0/3428
1	Jf	0.15	0/2558	0.23	0/3458
1	Jg	0.15	0/2558	0.24	0/3458
1	Jh	0.15	0/2536	0.23	0/3428
1	Ji	0.14	0/2558	0.23	0/3458
1	Jj	0.15	0/2558	0.24	0/3458
1	Jk	0.15	0/2536	0.23	0/3428
1	Jl	0.15	0/2558	0.24	0/3458
1	Jm	0.15	0/2558	0.24	0/3458
1	Jn	0.14	0/2536	0.24	0/3428
1	Jo	0.14	0/2558	0.24	0/3458
1	Jp	0.14	0/2558	0.24	0/3458
1	Jq	0.15	0/2536	0.24	0/3428
1	Jr	0.14	0/2558	0.24	0/3458
1	Js	0.14	0/2558	0.24	0/3458
1	Jt	0.15	0/2536	0.23	0/3428
1	Ju	0.15	0/2558	0.26	0/3458
1	Jv	0.15	0/2558	0.25	0/3458
1	Jw	0.14	0/2558	0.25	0/3458
1	Jx	0.14	0/2558	0.23	0/3458
1	Jy	0.13	0/2558	0.25	0/3458
1	Jz	0.13	0/2558	0.24	0/3458
1	KA	0.14	0/2558	0.25	0/3458
1	KB	0.14	0/2558	0.24	0/3458
1	KC	0.13	0/2558	0.24	0/3458
1	KD	0.13	0/2558	0.23	0/3458
1	KE	0.13	0/2558	0.24	0/3458
1	KF	0.13	0/2558	0.23	0/3458
1	KG	0.13	0/2449	0.23	0/3309
1	KH	0.14	0/2536	0.23	0/3428
1	KI	0.13	0/2558	0.23	0/3458
1	KJ	0.14	0/2558	0.22	0/3458
1	KK	0.14	0/2536	0.22	0/3428
1	KL	0.14	0/2558	0.23	0/3458
1	KM	0.14	0/2558	0.23	0/3458
1	KN	0.15	0/2536	0.23	0/3428
1	KO	0.14	0/2558	0.24	0/3458
1	KP	0.14	0/2558	0.22	0/3458
1	KQ	0.16	0/2553	0.23	0/3450
1	KR	0.14	0/2558	0.23	0/3458

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	KS	0.14	0/2558	0.23	0/3458
1	KT	0.14	0/2536	0.23	0/3428
1	KU	0.13	0/2558	0.22	0/3458
1	KV	0.16	0/2553	0.26	0/3450
1	KW	0.14	0/2558	0.24	0/3458
1	KX	0.14	0/2428	0.23	0/3281
1	KY	0.14	0/2558	0.24	0/3458
1	KZ	0.14	0/2558	0.23	0/3458
1	Ka	0.14	0/2558	0.24	0/3458
1	Kb	0.13	0/2428	0.22	0/3281
1	Kc	0.13	0/2558	0.23	0/3458
1	Kd	0.13	0/2558	0.23	0/3458
1	Ke	0.14	0/2558	0.24	0/3458
1	Kf	0.13	0/2558	0.23	0/3458
1	Kg	0.13	0/2558	0.23	0/3458
1	Kh	0.13	0/2558	0.23	0/3458
1	Ki	0.13	0/2558	0.23	0/3458
1	Kj	0.13	0/2558	0.23	0/3458
1	Kk	0.13	0/2558	0.23	0/3458
1	Kl	0.13	0/2558	0.23	0/3458
1	Km	0.13	0/2558	0.24	0/3458
1	Kn	0.13	0/2558	0.23	0/3458
1	Ko	0.14	0/2558	0.25	0/3458
1	Kp	0.13	0/2558	0.23	0/3458
1	Kq	0.13	0/2558	0.23	0/3458
1	Kr	0.13	0/2558	0.23	0/3458
1	Ks	0.13	0/2558	0.23	0/3458
1	Kt	0.13	0/2558	0.23	0/3458
1	Ku	0.13	0/2558	0.23	0/3458
1	Kv	0.13	0/2558	0.22	0/3458
1	Kw	0.13	0/2558	0.23	0/3458
1	Kx	0.13	0/2558	0.24	0/3458
1	Ky	0.13	0/2558	0.23	0/3458
1	Kz	0.13	0/2558	0.23	0/3458
1	LA	0.13	0/2558	0.23	0/3458
1	LB	0.13	0/2558	0.24	0/3458
1	LC	0.13	0/2558	0.23	0/3458
1	LD	0.13	0/2558	0.25	0/3458
1	LE	0.13	0/2558	0.22	0/3458
1	LF	0.13	0/2558	0.23	0/3458
1	LG	0.13	0/2558	0.23	0/3458
1	LH	0.13	0/2558	0.22	0/3458
1	LI	0.13	0/2558	0.23	0/3458

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	OT	0.15	0/2536	0.25	0/3428
1	OU	0.14	0/2558	0.23	0/3458
1	OV	0.15	0/2558	0.24	0/3458
1	OW	0.15	0/2536	0.23	0/3428
1	OX	0.14	0/2558	0.23	0/3458
1	OY	0.15	0/2558	0.24	0/3458
1	OZ	0.15	0/2536	0.23	0/3428
1	Oa	0.15	0/2558	0.24	0/3458
1	Ob	0.15	0/2558	0.24	0/3458
1	Oc	0.14	0/2536	0.24	0/3428
1	Od	0.14	0/2558	0.24	0/3458
1	Oe	0.14	0/2558	0.23	0/3458
1	Of	0.15	0/2536	0.24	0/3428
1	Og	0.14	0/2558	0.24	0/3458
1	Oh	0.14	0/2558	0.23	0/3458
1	Oi	0.15	0/2536	0.23	0/3428
1	Oj	0.15	0/2558	0.26	0/3458
1	Ok	0.15	0/2558	0.25	0/3458
1	Ol	0.14	0/2558	0.25	0/3458
1	Om	0.14	0/2558	0.23	0/3458
1	On	0.13	0/2558	0.25	0/3458
1	Oo	0.13	0/2558	0.24	0/3458
1	Op	0.14	0/2558	0.25	0/3458
1	Oq	0.14	0/2558	0.24	0/3458
1	Or	0.13	0/2558	0.24	0/3458
1	Os	0.13	0/2558	0.23	0/3458
1	Ot	0.13	0/2558	0.24	0/3458
1	Ou	0.12	0/2558	0.23	0/3458
1	Ov	0.13	0/2449	0.23	0/3309
1	Ow	0.14	0/2536	0.23	0/3428
1	Ox	0.13	0/2558	0.23	0/3458
1	Oy	0.14	0/2558	0.22	0/3458
1	Oz	0.14	0/2536	0.22	0/3428
1	PA	0.14	0/2558	0.23	0/3458
1	PB	0.14	0/2558	0.23	0/3458
1	PC	0.15	0/2536	0.22	0/3428
1	PD	0.14	0/2558	0.24	0/3458
1	PE	0.14	0/2558	0.22	0/3458
1	PF	0.16	0/2553	0.23	0/3450
1	PG	0.14	0/2558	0.23	0/3458
1	PH	0.14	0/2558	0.23	0/3458
1	PI	0.14	0/2536	0.23	0/3428
1	PJ	0.13	0/2558	0.21	0/3458

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	PK	0.16	0/2553	0.26	0/3450
1	PL	0.14	0/2558	0.24	0/3458
1	PM	0.14	0/2428	0.23	0/3281
1	PN	0.14	0/2558	0.25	0/3458
1	PO	0.14	0/2558	0.23	0/3458
1	PP	0.14	0/2558	0.24	0/3458
1	PQ	0.13	0/2428	0.22	0/3281
1	PR	0.13	0/2558	0.23	0/3458
1	PS	0.13	0/2558	0.23	0/3458
1	PT	0.14	0/2558	0.24	0/3458
1	PU	0.13	0/2558	0.23	0/3458
1	PV	0.13	0/2558	0.23	0/3458
1	PW	0.13	0/2558	0.23	0/3458
1	PX	0.13	0/2558	0.23	0/3458
1	PY	0.13	0/2558	0.23	0/3458
1	PZ	0.13	0/2558	0.23	0/3458
1	Pa	0.13	0/2558	0.23	0/3458
1	Pb	0.13	0/2558	0.24	0/3458
1	Pc	0.13	0/2558	0.23	0/3458
1	Pd	0.14	0/2558	0.25	0/3458
1	Pe	0.13	0/2558	0.23	0/3458
1	Pf	0.13	0/2558	0.23	0/3458
1	Pg	0.13	0/2558	0.23	0/3458
1	Ph	0.13	0/2558	0.23	0/3458
1	Pi	0.13	0/2558	0.23	0/3458
1	Pj	0.13	0/2558	0.23	0/3458
1	Pk	0.13	0/2558	0.22	0/3458
1	Pl	0.13	0/2558	0.23	0/3458
1	Pm	0.13	0/2558	0.24	0/3458
1	Pn	0.13	0/2558	0.23	0/3458
1	Po	0.13	0/2558	0.23	0/3458
1	Pp	0.13	0/2558	0.23	0/3458
1	Pq	0.13	0/2558	0.24	0/3458
1	Pr	0.13	0/2558	0.23	0/3458
1	Ps	0.13	0/2558	0.25	0/3458
1	Pt	0.13	0/2558	0.22	0/3458
1	Pu	0.13	0/2558	0.23	0/3458
1	Pv	0.13	0/2558	0.23	0/3458
1	Pw	0.13	0/2558	0.23	0/3458
1	Px	0.13	0/2558	0.23	0/3458
1	TI	0.15	0/2536	0.25	0/3428
1	TJ	0.14	0/2558	0.23	0/3458
1	TK	0.15	0/2558	0.24	0/3458

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	TL	0.15	0/2536	0.23	0/3428
1	TM	0.14	0/2558	0.23	0/3458
1	TN	0.15	0/2558	0.24	0/3458
1	TO	0.15	0/2536	0.23	0/3428
1	TP	0.15	0/2558	0.24	0/3458
1	TQ	0.15	0/2558	0.24	0/3458
1	TR	0.14	0/2536	0.24	0/3428
1	TS	0.14	0/2558	0.24	0/3458
1	TT	0.14	0/2558	0.23	0/3458
1	TU	0.15	0/2536	0.24	0/3428
1	TV	0.14	0/2558	0.23	0/3458
1	TW	0.14	0/2558	0.24	0/3458
1	TX	0.15	0/2536	0.23	0/3428
1	TY	0.15	0/2558	0.25	0/3458
1	TZ	0.15	0/2558	0.25	0/3458
1	Ta	0.14	0/2558	0.25	0/3458
1	Tb	0.14	0/2558	0.23	0/3458
1	Tc	0.13	0/2558	0.25	0/3458
1	Td	0.13	0/2558	0.24	0/3458
1	Te	0.14	0/2558	0.25	0/3458
1	Tf	0.14	0/2558	0.24	0/3458
1	Tg	0.13	0/2558	0.24	0/3458
1	Th	0.13	0/2558	0.23	0/3458
1	Ti	0.13	0/2558	0.24	0/3458
1	Tj	0.13	0/2558	0.23	0/3458
1	Tk	0.13	0/2449	0.23	0/3309
1	Tl	0.14	0/2536	0.23	0/3428
1	Tm	0.13	0/2558	0.23	0/3458
1	Tn	0.14	0/2558	0.22	0/3458
1	To	0.14	0/2536	0.22	0/3428
1	Tp	0.14	0/2558	0.23	0/3458
1	Tq	0.14	0/2558	0.23	0/3458
1	Tr	0.15	0/2536	0.22	0/3428
1	Ts	0.14	0/2558	0.25	0/3458
1	Tt	0.14	0/2558	0.22	0/3458
1	Tu	0.16	0/2553	0.23	0/3450
1	Tv	0.14	0/2558	0.23	0/3458
1	Tw	0.14	0/2558	0.23	0/3458
1	Tx	0.14	0/2536	0.23	0/3428
1	Ty	0.13	0/2558	0.22	0/3458
1	Tz	0.16	0/2553	0.26	0/3450
1	UA	0.14	0/2558	0.24	0/3458
1	UB	0.14	0/2428	0.23	0/3281

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	UC	0.14	0/2558	0.25	0/3458
1	UD	0.14	0/2558	0.23	0/3458
1	UE	0.14	0/2558	0.24	0/3458
1	UF	0.13	0/2428	0.22	0/3281
1	UG	0.13	0/2558	0.23	0/3458
1	UH	0.13	0/2558	0.23	0/3458
1	UI	0.13	0/2558	0.24	0/3458
1	UJ	0.13	0/2558	0.23	0/3458
1	UK	0.13	0/2558	0.23	0/3458
1	UL	0.13	0/2558	0.23	0/3458
1	UM	0.13	0/2558	0.23	0/3458
1	UN	0.13	0/2558	0.23	0/3458
1	UO	0.13	0/2558	0.23	0/3458
1	UP	0.13	0/2558	0.22	0/3458
1	UQ	0.13	0/2558	0.24	0/3458
1	UR	0.13	0/2558	0.23	0/3458
1	US	0.14	0/2558	0.25	0/3458
1	UT	0.13	0/2558	0.23	0/3458
1	UU	0.13	0/2558	0.23	0/3458
1	UV	0.13	0/2558	0.23	0/3458
1	UW	0.13	0/2558	0.23	0/3458
1	UX	0.13	0/2558	0.23	0/3458
1	UY	0.13	0/2558	0.23	0/3458
1	UZ	0.13	0/2558	0.23	0/3458
1	Ua	0.13	0/2558	0.23	0/3458
1	Ub	0.13	0/2558	0.24	0/3458
1	Uc	0.13	0/2558	0.23	0/3458
1	Ud	0.13	0/2558	0.24	0/3458
1	Ue	0.13	0/2558	0.23	0/3458
1	Uf	0.13	0/2558	0.24	0/3458
1	Ug	0.13	0/2558	0.23	0/3458
1	Uh	0.13	0/2558	0.25	0/3458
1	Ui	0.13	0/2558	0.22	0/3458
1	Uj	0.13	0/2558	0.23	0/3458
1	Uk	0.13	0/2558	0.23	0/3458
1	Ul	0.13	0/2558	0.22	0/3458
1	Um	0.13	0/2558	0.23	0/3458
2	Bf	0.14	0/1195	0.26	0/1608
2	Bg	0.14	0/1177	0.25	0/1583
2	Bh	0.13	0/1190	0.24	0/1601
2	Bi	0.13	0/1182	0.25	0/1590
2	Bj	0.13	0/1190	0.24	0/1601
2	Bk	0.13	0/1182	0.22	0/1590

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	Bl	0.13	0/1190	0.25	0/1601
2	Bm	0.12	0/1187	0.23	0/1597
2	Bn	0.13	0/1190	0.24	0/1601
2	Bo	0.13	0/1182	0.23	0/1590
2	Bp	0.13	0/1182	0.23	0/1590
2	Bq	0.14	0/1177	0.24	0/1583
2	Br	0.14	0/1190	0.24	0/1601
2	Bs	0.15	0/1306	0.28	0/1755
2	Bt	0.13	0/1190	0.24	0/1601
2	Bu	0.13	0/1178	0.24	0/1586
2	Bv	0.13	0/1182	0.23	0/1590
2	Bw	0.13	0/1178	0.24	0/1586
2	Bx	0.12	0/1216	0.21	0/1637
2	By	0.13	0/1165	0.23	0/1568
2	Bz	0.13	0/1190	0.22	0/1601
2	CA	0.10	0/931	0.25	0/1252
2	CB	0.13	0/1216	0.23	0/1637
2	CC	0.13	0/1181	0.21	0/1590
2	CD	0.15	0/1229	0.26	0/1655
2	CE	0.13	0/1212	0.22	0/1633
2	CF	0.14	0/1190	0.23	0/1601
2	CG	0.13	0/1356	0.23	0/1823
2	CH	0.13	0/1182	0.22	0/1590
2	CI	0.12	0/1207	0.22	0/1626
2	CJ	0.13	0/1293	0.22	0/1737
2	CK	0.13	0/1306	0.23	0/1755
2	CL	0.13	0/1177	0.22	0/1583
2	CM	0.12	0/1190	0.22	0/1601
2	CN	0.13	0/1182	0.23	0/1590
2	CO	0.13	0/1322	0.23	0/1776
2	CP	0.13	0/1178	0.24	0/1586
2	CQ	0.13	0/1216	0.23	0/1637
2	CR	0.12	0/1165	0.23	0/1568
2	CS	0.13	0/1190	0.23	0/1601
2	CT	0.13	0/1178	0.24	0/1586
2	CU	0.13	0/1216	0.22	0/1637
2	CV	0.13	0/1165	0.24	0/1568
2	CW	0.13	0/1190	0.22	0/1601
2	CX	0.12	0/1178	0.23	0/1586
2	CY	0.13	0/1216	0.23	0/1637
2	CZ	0.13	0/1165	0.23	0/1568
2	Ca	0.13	0/1190	0.22	0/1601
2	Cb	0.12	0/1178	0.25	0/1586

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	Cc	0.13	0/1216	0.23	0/1637
2	Cd	0.13	0/1165	0.24	0/1568
2	Ce	0.13	0/1190	0.22	0/1601
2	Cf	0.13	0/1178	0.24	0/1586
2	Cg	0.12	0/1216	0.23	0/1637
2	Ch	0.13	0/1165	0.23	0/1568
2	Ci	0.15	0/1190	0.23	0/1601
2	GU	0.14	0/1195	0.26	0/1608
2	GV	0.14	0/1177	0.24	0/1583
2	GW	0.13	0/1190	0.24	0/1601
2	GX	0.13	0/1182	0.25	0/1590
2	GY	0.13	0/1190	0.24	0/1601
2	GZ	0.13	0/1182	0.22	0/1590
2	Ga	0.13	0/1190	0.25	0/1601
2	Gb	0.12	0/1187	0.23	0/1597
2	Gc	0.13	0/1190	0.24	0/1601
2	Gd	0.13	0/1182	0.23	0/1590
2	Ge	0.13	0/1182	0.23	0/1590
2	Gf	0.14	0/1177	0.24	0/1583
2	Gg	0.14	0/1190	0.25	0/1601
2	Gh	0.15	0/1306	0.27	0/1755
2	Gi	0.13	0/1190	0.24	0/1601
2	Gj	0.13	0/1178	0.24	0/1586
2	Gk	0.13	0/1182	0.23	0/1590
2	Gl	0.13	0/1178	0.24	0/1586
2	Gm	0.12	0/1216	0.21	0/1637
2	Gn	0.13	0/1165	0.24	0/1568
2	Go	0.13	0/1190	0.22	0/1601
2	Gp	0.10	0/931	0.25	0/1252
2	Gq	0.13	0/1216	0.23	0/1637
2	Gr	0.13	0/1181	0.21	0/1590
2	Gs	0.15	0/1229	0.26	0/1655
2	Gt	0.13	0/1212	0.22	0/1633
2	Gu	0.14	0/1190	0.23	0/1601
2	Gv	0.13	0/1356	0.23	0/1823
2	Gw	0.12	0/1182	0.22	0/1590
2	Gx	0.12	0/1207	0.22	0/1626
2	Gy	0.13	0/1293	0.22	0/1737
2	Gz	0.13	0/1306	0.23	0/1755
2	HA	0.13	0/1177	0.22	0/1583
2	HB	0.12	0/1190	0.22	0/1601
2	HC	0.13	0/1182	0.22	0/1590
2	HD	0.12	0/1322	0.23	0/1776

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	HE	0.13	0/1178	0.24	0/1586
2	HF	0.12	0/1216	0.23	0/1637
2	HG	0.12	0/1165	0.23	0/1568
2	HH	0.13	0/1190	0.23	0/1601
2	HI	0.13	0/1178	0.24	0/1586
2	HJ	0.13	0/1216	0.22	0/1637
2	HK	0.13	0/1165	0.24	0/1568
2	HL	0.13	0/1190	0.22	0/1601
2	HM	0.12	0/1178	0.23	0/1586
2	HN	0.13	0/1216	0.24	0/1637
2	HO	0.13	0/1165	0.23	0/1568
2	HP	0.13	0/1190	0.22	0/1601
2	HQ	0.12	0/1178	0.25	0/1586
2	HR	0.13	0/1216	0.23	0/1637
2	HS	0.13	0/1165	0.24	0/1568
2	HT	0.13	0/1190	0.22	0/1601
2	HU	0.13	0/1178	0.24	0/1586
2	HV	0.12	0/1216	0.23	0/1637
2	HW	0.13	0/1165	0.22	0/1568
2	HX	0.15	0/1190	0.23	0/1601
2	LJ	0.14	0/1195	0.26	0/1608
2	LK	0.14	0/1177	0.25	0/1583
2	LL	0.13	0/1190	0.24	0/1601
2	LM	0.13	0/1182	0.25	0/1590
2	LN	0.13	0/1190	0.24	0/1601
2	LO	0.13	0/1182	0.22	0/1590
2	LP	0.13	0/1190	0.25	0/1601
2	LQ	0.12	0/1187	0.23	0/1597
2	LR	0.13	0/1190	0.24	0/1601
2	LS	0.13	0/1182	0.23	0/1590
2	LT	0.13	0/1182	0.23	0/1590
2	LU	0.14	0/1177	0.24	0/1583
2	LV	0.14	0/1190	0.25	0/1601
2	LW	0.15	0/1306	0.27	0/1755
2	LX	0.13	0/1190	0.24	0/1601
2	LY	0.13	0/1178	0.24	0/1586
2	LZ	0.13	0/1182	0.23	0/1590
2	La	0.13	0/1178	0.24	0/1586
2	Lb	0.12	0/1216	0.21	0/1637
2	Lc	0.13	0/1165	0.24	0/1568
2	Ld	0.13	0/1190	0.22	0/1601
2	Le	0.10	0/931	0.25	0/1252
2	Lf	0.13	0/1216	0.23	0/1637

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	Lg	0.13	0/1181	0.21	0/1590
2	Lh	0.15	0/1229	0.26	0/1655
2	Li	0.13	0/1212	0.22	0/1633
2	Lj	0.14	0/1190	0.23	0/1601
2	Lk	0.12	0/1356	0.24	0/1823
2	Ll	0.13	0/1182	0.22	0/1590
2	Lm	0.12	0/1207	0.22	0/1626
2	Ln	0.13	0/1293	0.22	0/1737
2	Lo	0.13	0/1306	0.23	0/1755
2	Lp	0.13	0/1177	0.22	0/1583
2	Lq	0.12	0/1190	0.22	0/1601
2	Lr	0.13	0/1182	0.23	0/1590
2	Ls	0.12	0/1322	0.23	0/1776
2	Lt	0.13	0/1178	0.24	0/1586
2	Lu	0.13	0/1216	0.23	0/1637
2	Lv	0.12	0/1165	0.23	0/1568
2	Lw	0.13	0/1190	0.23	0/1601
2	Lx	0.13	0/1178	0.24	0/1586
2	Ly	0.13	0/1216	0.22	0/1637
2	Lz	0.13	0/1165	0.24	0/1568
2	MA	0.13	0/1190	0.22	0/1601
2	MB	0.12	0/1178	0.23	0/1586
2	MC	0.13	0/1216	0.24	0/1637
2	MD	0.13	0/1165	0.23	0/1568
2	ME	0.12	0/1190	0.22	0/1601
2	MF	0.12	0/1178	0.25	0/1586
2	MG	0.12	0/1216	0.23	0/1637
2	MH	0.13	0/1165	0.23	0/1568
2	MI	0.13	0/1190	0.22	0/1601
2	MJ	0.13	0/1178	0.24	0/1586
2	MK	0.12	0/1216	0.23	0/1637
2	ML	0.14	0/1165	0.22	0/1568
2	MM	0.15	0/1190	0.23	0/1601
2	Py	0.14	0/1195	0.26	0/1608
2	Pz	0.14	0/1177	0.25	0/1583
2	QA	0.13	0/1190	0.24	0/1601
2	QB	0.13	0/1182	0.25	0/1590
2	QC	0.13	0/1190	0.24	0/1601
2	QD	0.13	0/1182	0.22	0/1590
2	QE	0.13	0/1190	0.25	0/1601
2	QF	0.12	0/1187	0.23	0/1597
2	QG	0.13	0/1190	0.24	0/1601
2	QH	0.13	0/1182	0.23	0/1590

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	QI	0.13	0/1182	0.23	0/1590
2	QJ	0.14	0/1177	0.24	0/1583
2	QK	0.14	0/1190	0.25	0/1601
2	QL	0.15	0/1306	0.27	0/1755
2	QM	0.13	0/1190	0.24	0/1601
2	QN	0.13	0/1178	0.24	0/1586
2	QO	0.13	0/1182	0.23	0/1590
2	QP	0.13	0/1178	0.24	0/1586
2	QQ	0.12	0/1216	0.21	0/1637
2	QR	0.13	0/1165	0.23	0/1568
2	QS	0.13	0/1190	0.22	0/1601
2	QT	0.10	0/931	0.25	0/1252
2	QU	0.13	0/1216	0.23	0/1637
2	QV	0.13	0/1181	0.21	0/1590
2	QW	0.15	0/1229	0.26	0/1655
2	QX	0.13	0/1212	0.22	0/1633
2	QY	0.14	0/1190	0.23	0/1601
2	QZ	0.12	0/1356	0.23	0/1823
2	Qa	0.12	0/1182	0.22	0/1590
2	Qb	0.12	0/1207	0.22	0/1626
2	Qc	0.13	0/1293	0.22	0/1737
2	Qd	0.13	0/1306	0.23	0/1755
2	Qe	0.13	0/1177	0.22	0/1583
2	Qf	0.12	0/1190	0.22	0/1601
2	Qg	0.13	0/1182	0.23	0/1590
2	Qh	0.12	0/1322	0.23	0/1776
2	Qi	0.13	0/1178	0.24	0/1586
2	Qj	0.12	0/1216	0.23	0/1637
2	Qk	0.12	0/1165	0.23	0/1568
2	Ql	0.13	0/1190	0.23	0/1601
2	Qm	0.13	0/1178	0.24	0/1586
2	Qn	0.13	0/1216	0.22	0/1637
2	Qo	0.13	0/1165	0.24	0/1568
2	Qp	0.13	0/1190	0.22	0/1601
2	Qq	0.12	0/1178	0.23	0/1586
2	Qr	0.13	0/1216	0.23	0/1637
2	Qs	0.13	0/1165	0.23	0/1568
2	Qt	0.13	0/1190	0.22	0/1601
2	Qu	0.13	0/1178	0.25	0/1586
2	Qv	0.13	0/1216	0.23	0/1637
2	Qw	0.13	0/1165	0.23	0/1568
2	Qx	0.13	0/1190	0.22	0/1601
2	Qy	0.13	0/1178	0.24	0/1586

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	Qz	0.12	0/1216	0.23	0/1637
2	RA	0.13	0/1165	0.22	0/1568
2	RB	0.15	0/1190	0.23	0/1601
2	Un	0.14	0/1195	0.26	0/1608
2	Uo	0.14	0/1177	0.24	0/1583
2	Up	0.13	0/1190	0.24	0/1601
2	Uq	0.13	0/1182	0.24	0/1590
2	Ur	0.13	0/1190	0.24	0/1601
2	Us	0.13	0/1182	0.22	0/1590
2	Ut	0.13	0/1190	0.25	0/1601
2	Uu	0.12	0/1187	0.23	0/1597
2	Uv	0.13	0/1190	0.24	0/1601
2	Uw	0.13	0/1182	0.23	0/1590
2	Ux	0.13	0/1182	0.23	0/1590
2	Uy	0.14	0/1177	0.24	0/1583
2	Uz	0.14	0/1190	0.25	0/1601
2	VA	0.15	0/1306	0.27	0/1755
2	VB	0.13	0/1190	0.24	0/1601
2	VC	0.13	0/1178	0.24	0/1586
2	VD	0.13	0/1182	0.23	0/1590
2	VE	0.13	0/1178	0.24	0/1586
2	VF	0.12	0/1216	0.21	0/1637
2	VG	0.13	0/1165	0.23	0/1568
2	VH	0.13	0/1190	0.22	0/1601
2	VI	0.10	0/931	0.25	0/1252
2	VJ	0.13	0/1216	0.23	0/1637
2	VK	0.13	0/1181	0.21	0/1590
2	VL	0.15	0/1229	0.26	0/1655
2	VM	0.13	0/1212	0.22	0/1633
2	VN	0.14	0/1190	0.23	0/1601
2	VO	0.13	0/1356	0.23	0/1823
2	VP	0.12	0/1182	0.22	0/1590
2	VQ	0.12	0/1207	0.22	0/1626
2	VR	0.13	0/1293	0.22	0/1737
2	VS	0.13	0/1306	0.23	0/1755
2	VT	0.13	0/1177	0.22	0/1583
2	VU	0.12	0/1190	0.22	0/1601
2	VV	0.13	0/1182	0.23	0/1590
2	VW	0.12	0/1322	0.23	0/1776
2	VX	0.13	0/1178	0.24	0/1586
2	VY	0.13	0/1216	0.23	0/1637
2	VZ	0.12	0/1165	0.23	0/1568
2	Va	0.13	0/1190	0.23	0/1601

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	Vb	0.13	0/1178	0.24	0/1586
2	Vc	0.13	0/1216	0.22	0/1637
2	Vd	0.13	0/1165	0.24	0/1568
2	Ve	0.13	0/1190	0.22	0/1601
2	Vf	0.12	0/1178	0.23	0/1586
2	Vg	0.13	0/1216	0.23	0/1637
2	Vh	0.12	0/1165	0.23	0/1568
2	Vi	0.13	0/1190	0.22	0/1601
2	Vj	0.12	0/1178	0.25	0/1586
2	Vk	0.12	0/1216	0.23	0/1637
2	Vl	0.13	0/1165	0.24	0/1568
2	Vm	0.13	0/1190	0.22	0/1601
2	Vn	0.13	0/1178	0.24	0/1586
2	Vo	0.12	0/1216	0.23	0/1637
2	Vp	0.13	0/1165	0.22	0/1568
2	Vq	0.15	0/1190	0.23	0/1601
3	Cj	0.11	0/1274	0.27	0/1721
3	HY	0.12	0/1274	0.27	0/1721
3	MN	0.11	0/1274	0.27	0/1721
3	RC	0.12	0/1274	0.27	0/1721
3	Vr	0.11	0/1274	0.27	0/1721
4	Ck	0.14	0/1216	0.24	0/1636
4	Cl	0.14	0/1216	0.26	0/1636
4	Cm	0.14	0/1225	0.25	0/1649
4	Cn	0.13	0/1219	0.25	0/1641
4	Co	0.14	0/1243	0.25	0/1672
4	Cp	0.13	0/1212	0.26	0/1632
4	Cq	0.09	0/1381	0.25	0/1855
4	Cr	0.08	0/1381	0.23	0/1855
4	Cs	0.09	0/1381	0.24	0/1855
4	Ct	0.11	0/1158	0.22	0/1559
4	Cu	0.13	0/1208	0.23	0/1626
4	Cv	0.13	0/1229	0.24	0/1653
4	Cw	0.10	0/1229	0.25	0/1653
4	Cx	0.14	0/1207	0.26	0/1625
4	Cy	0.13	0/1207	0.24	0/1625
4	Cz	0.13	0/1216	0.25	0/1636
4	DA	0.08	0/1381	0.23	0/1855
4	DB	0.09	0/1381	0.23	0/1855
4	DC	0.09	0/1381	0.22	0/1855
4	DD	0.09	0/1381	0.23	0/1855
4	DE	0.09	0/1381	0.24	0/1855
4	DF	0.08	0/1381	0.23	0/1855

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	DG	0.09	0/1381	0.24	0/1855
4	DH	0.09	0/1381	0.24	0/1855
4	DI	0.08	0/1381	0.22	0/1855
4	DJ	0.10	0/1381	0.24	0/1855
4	HZ	0.14	0/1216	0.24	0/1636
4	Ha	0.14	0/1216	0.26	0/1636
4	Hb	0.14	0/1225	0.25	0/1649
4	Hc	0.13	0/1219	0.25	0/1641
4	Hd	0.14	0/1243	0.25	0/1672
4	He	0.13	0/1212	0.25	0/1632
4	Hf	0.09	0/1381	0.24	0/1855
4	Hg	0.08	0/1381	0.22	0/1855
4	Hh	0.09	0/1381	0.24	0/1855
4	Hi	0.11	0/1158	0.22	0/1559
4	Hj	0.13	0/1208	0.23	0/1626
4	Hk	0.13	0/1229	0.24	0/1653
4	Hl	0.10	0/1229	0.25	0/1653
4	Hm	0.14	0/1207	0.26	0/1625
4	Hn	0.13	0/1207	0.24	0/1625
4	Ho	0.13	0/1216	0.25	0/1636
4	Hp	0.08	0/1381	0.23	0/1855
4	Hq	0.09	0/1381	0.23	0/1855
4	Hr	0.09	0/1381	0.22	0/1855
4	Hs	0.09	0/1381	0.23	0/1855
4	Ht	0.09	0/1381	0.24	0/1855
4	Hu	0.09	0/1381	0.23	0/1855
4	Hv	0.09	0/1381	0.23	0/1855
4	Hw	0.09	0/1381	0.24	0/1855
4	Hx	0.08	0/1381	0.23	0/1855
4	Hy	0.10	0/1381	0.24	0/1855
4	MO	0.14	0/1216	0.24	0/1636
4	MP	0.14	0/1216	0.26	0/1636
4	MQ	0.14	0/1225	0.25	0/1649
4	MR	0.13	0/1219	0.25	0/1641
4	MS	0.14	0/1243	0.25	0/1672
4	MT	0.13	0/1212	0.26	0/1632
4	MU	0.09	0/1381	0.25	0/1855
4	MV	0.08	0/1381	0.23	0/1855
4	MW	0.09	0/1381	0.24	0/1855
4	MX	0.11	0/1158	0.22	0/1559
4	MY	0.13	0/1208	0.23	0/1626
4	MZ	0.13	0/1229	0.24	0/1653
4	Ma	0.10	0/1229	0.25	0/1653

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	Mb	0.14	0/1207	0.27	0/1625
4	Mc	0.13	0/1207	0.24	0/1625
4	Md	0.13	0/1216	0.25	0/1636
4	Me	0.08	0/1381	0.23	0/1855
4	Mf	0.09	0/1381	0.23	0/1855
4	Mg	0.08	0/1381	0.22	0/1855
4	Mh	0.09	0/1381	0.23	0/1855
4	Mi	0.09	0/1381	0.24	0/1855
4	Mj	0.08	0/1381	0.23	0/1855
4	Mk	0.09	0/1381	0.24	0/1855
4	Ml	0.09	0/1381	0.24	0/1855
4	Mm	0.08	0/1381	0.22	0/1855
4	Mn	0.10	0/1381	0.24	0/1855
4	RD	0.14	0/1216	0.24	0/1636
4	RE	0.14	0/1216	0.26	0/1636
4	RF	0.14	0/1225	0.25	0/1649
4	RG	0.13	0/1219	0.25	0/1641
4	RH	0.14	0/1243	0.25	0/1672
4	RI	0.13	0/1212	0.25	0/1632
4	RJ	0.09	0/1381	0.25	0/1855
4	RK	0.08	0/1381	0.22	0/1855
4	RL	0.09	0/1381	0.24	0/1855
4	RM	0.11	0/1158	0.22	0/1559
4	RN	0.13	0/1208	0.23	0/1626
4	RO	0.12	0/1229	0.24	0/1653
4	RP	0.10	0/1229	0.25	0/1653
4	RQ	0.14	0/1207	0.26	0/1625
4	RR	0.13	0/1207	0.24	0/1625
4	RS	0.13	0/1216	0.25	0/1636
4	RT	0.08	0/1381	0.23	0/1855
4	RU	0.09	0/1381	0.23	0/1855
4	RV	0.08	0/1381	0.22	0/1855
4	RW	0.09	0/1381	0.23	0/1855
4	RX	0.09	0/1381	0.25	0/1855
4	RY	0.08	0/1381	0.23	0/1855
4	RZ	0.09	0/1381	0.24	0/1855
4	Ra	0.09	0/1381	0.24	0/1855
4	Rb	0.08	0/1381	0.22	0/1855
4	Rc	0.10	0/1381	0.24	0/1855
4	Vs	0.14	0/1216	0.24	0/1636
4	Vt	0.14	0/1216	0.26	0/1636
4	Vu	0.14	0/1225	0.25	0/1649
4	Vv	0.13	0/1219	0.25	0/1641

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	Vw	0.14	0/1243	0.25	0/1672
4	Vx	0.13	0/1212	0.25	0/1632
4	Vy	0.09	0/1381	0.25	0/1855
4	Vz	0.08	0/1381	0.23	0/1855
4	WA	0.09	0/1381	0.24	0/1855
4	WB	0.11	0/1158	0.22	0/1559
4	WC	0.13	0/1208	0.23	0/1626
4	WD	0.13	0/1229	0.24	0/1653
4	WE	0.10	0/1229	0.25	0/1653
4	WF	0.14	0/1207	0.27	0/1625
4	WG	0.13	0/1207	0.24	0/1625
4	WH	0.13	0/1216	0.25	0/1636
4	WI	0.08	0/1381	0.23	0/1855
4	WJ	0.09	0/1381	0.23	0/1855
4	WK	0.09	0/1381	0.22	0/1855
4	WL	0.09	0/1381	0.23	0/1855
4	WM	0.09	0/1381	0.24	0/1855
4	WN	0.08	0/1381	0.23	0/1855
4	WO	0.09	0/1381	0.23	0/1855
4	WP	0.09	0/1381	0.24	0/1855
4	WQ	0.08	0/1381	0.22	0/1855
4	WR	0.10	0/1381	0.24	0/1855
5	DK	0.12	0/272	0.17	0/365
5	DL	0.13	0/321	0.24	0/432
5	DM	0.13	0/321	0.17	0/432
5	DN	0.12	0/321	0.19	0/432
5	DO	0.13	0/321	0.17	0/432
5	DP	0.13	0/321	0.16	0/432
5	DQ	0.12	0/321	0.17	0/432
5	DR	0.13	0/321	0.17	0/432
5	DS	0.12	0/321	0.17	0/432
5	DT	0.14	0/321	0.19	0/432
5	DU	0.13	0/321	0.22	0/432
5	DV	0.12	0/321	0.19	0/432
5	DW	0.12	0/272	0.19	0/365
5	DX	0.13	0/321	0.18	0/432
5	DY	0.13	0/321	0.20	0/432
5	DZ	0.13	0/321	0.17	0/432
5	Da	0.12	0/321	0.18	0/432
5	Db	0.13	0/321	0.17	0/432
5	Dc	0.13	0/321	0.25	0/432
5	Dd	0.11	0/272	0.19	0/365
5	De	0.11	0/321	0.19	0/432

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	Df	0.12	0/237	0.19	0/316
5	Dg	0.13	0/237	0.19	0/316
5	Dh	0.11	0/272	0.16	0/365
5	Di	0.12	0/272	0.20	0/365
5	Dj	0.11	0/272	0.23	0/365
5	Dk	0.14	0/272	0.23	0/365
5	Dl	0.10	0/321	0.15	0/432
5	Dm	0.11	0/260	0.17	0/349
5	Dn	0.13	0/321	0.19	0/432
5	Do	0.12	0/321	0.21	0/432
5	Dp	0.12	0/321	0.16	0/432
5	Dq	0.12	0/321	0.17	0/432
5	Dr	0.12	0/321	0.16	0/432
5	Ds	0.11	0/321	0.18	0/432
5	Dt	0.13	0/321	0.18	0/432
5	Du	0.12	0/321	0.17	0/432
5	Dv	0.12	0/321	0.19	0/432
5	Dw	0.09	0/253	0.17	0/338
5	Dx	0.13	0/321	0.19	0/432
5	Dy	0.12	0/321	0.18	0/432
5	Dz	0.12	0/321	0.17	0/432
5	EA	0.13	0/237	0.17	0/316
5	EB	0.10	0/260	0.16	0/349
5	EC	0.11	0/321	0.18	0/432
5	ED	0.12	0/260	0.16	0/349
5	EE	0.12	0/321	0.18	0/432
5	EF	0.12	0/237	0.20	0/316
5	EG	0.11	0/321	0.17	0/432
5	EH	0.11	0/260	0.16	0/349
5	EI	0.12	0/272	0.16	0/365
5	EJ	0.12	0/272	0.22	0/365
5	EK	0.12	0/272	0.18	0/365
5	EL	0.11	0/352	0.19	0/472
5	EM	0.10	0/321	0.16	0/432
5	EN	0.11	0/321	0.17	0/432
5	EO	0.10	0/352	0.15	0/472
5	EP	0.11	0/321	0.18	0/432
5	EQ	0.11	0/321	0.15	0/432
5	ER	0.11	0/352	0.19	0/472
5	ES	0.12	0/321	0.25	0/432
5	ET	0.11	0/237	0.16	0/316
5	EU	0.11	0/352	0.25	0/472
5	EV	0.11	0/321	0.17	0/432

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	EW	0.12	0/321	0.18	0/432
5	EX	0.10	0/321	0.16	0/432
5	EY	0.11	0/352	0.19	0/472
5	EZ	0.11	0/321	0.17	0/432
5	Ea	0.10	0/352	0.18	0/472
5	Eb	0.10	0/321	0.16	0/432
5	Ec	0.11	0/321	0.16	0/432
5	Ed	0.11	0/268	0.16	0/356
5	Ee	0.11	0/321	0.16	0/432
5	Ef	0.10	0/321	0.16	0/432
5	Eg	0.10	0/268	0.19	0/356
5	Eh	0.12	0/237	0.18	0/316
5	Ei	0.10	0/321	0.16	0/432
5	Ej	0.10	0/352	0.16	0/472
5	Ek	0.11	0/321	0.17	0/432
5	El	0.10	0/321	0.16	0/432
5	Em	0.11	0/237	0.17	0/316
5	En	0.12	0/352	0.19	0/472
5	Eo	0.11	0/321	0.18	0/432
5	Hz	0.12	0/272	0.17	0/365
5	IA	0.13	0/321	0.24	0/432
5	IB	0.13	0/321	0.17	0/432
5	IC	0.12	0/321	0.19	0/432
5	ID	0.13	0/321	0.17	0/432
5	IE	0.13	0/321	0.16	0/432
5	IF	0.12	0/321	0.17	0/432
5	IG	0.12	0/321	0.17	0/432
5	IH	0.12	0/321	0.17	0/432
5	II	0.14	0/321	0.19	0/432
5	IJ	0.13	0/321	0.22	0/432
5	IK	0.12	0/321	0.18	0/432
5	IL	0.12	0/272	0.19	0/365
5	IM	0.12	0/321	0.19	0/432
5	IN	0.13	0/321	0.20	0/432
5	IO	0.13	0/321	0.17	0/432
5	IP	0.12	0/321	0.18	0/432
5	IQ	0.13	0/321	0.17	0/432
5	IR	0.13	0/321	0.26	0/432
5	IS	0.11	0/272	0.19	0/365
5	IT	0.11	0/321	0.19	0/432
5	IU	0.12	0/321	0.19	0/432
5	IV	0.13	0/321	0.24	0/432
5	IW	0.12	0/272	0.16	0/365

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	IX	0.13	0/272	0.20	0/365
5	IY	0.12	0/272	0.23	0/365
5	IZ	0.14	0/272	0.24	0/365
5	Ia	0.10	0/321	0.15	0/432
5	Ib	0.11	0/260	0.17	0/349
5	Ic	0.13	0/321	0.19	0/432
5	Id	0.12	0/321	0.21	0/432
5	Ie	0.12	0/321	0.16	0/432
5	If	0.12	0/321	0.17	0/432
5	Ig	0.12	0/321	0.16	0/432
5	Ih	0.11	0/321	0.18	0/432
5	Ii	0.13	0/321	0.18	0/432
5	Ij	0.12	0/321	0.17	0/432
5	Ik	0.12	0/321	0.18	0/432
5	Il	0.09	0/253	0.17	0/338
5	Im	0.13	0/321	0.18	0/432
5	In	0.12	0/321	0.18	0/432
5	Io	0.13	0/321	0.17	0/432
5	Ip	0.13	0/237	0.16	0/316
5	Iq	0.11	0/260	0.16	0/349
5	Ir	0.12	0/321	0.18	0/432
5	Is	0.12	0/260	0.16	0/349
5	It	0.12	0/321	0.18	0/432
5	Iu	0.11	0/321	0.19	0/432
5	Iv	0.11	0/321	0.17	0/432
5	Iw	0.11	0/260	0.16	0/349
5	Ix	0.12	0/272	0.17	0/365
5	Iy	0.12	0/272	0.22	0/365
5	Iz	0.12	0/272	0.18	0/365
5	JA	0.11	0/352	0.19	0/472
5	JB	0.10	0/321	0.16	0/432
5	JC	0.11	0/321	0.17	0/432
5	JD	0.10	0/352	0.15	0/472
5	JE	0.11	0/321	0.18	0/432
5	JF	0.11	0/321	0.16	0/432
5	JG	0.11	0/352	0.19	0/472
5	JH	0.12	0/321	0.25	0/432
5	JI	0.11	0/321	0.15	0/432
5	JJ	0.11	0/352	0.25	0/472
5	JK	0.11	0/237	0.17	0/316
5	JL	0.12	0/321	0.18	0/432
5	JM	0.10	0/321	0.16	0/432
5	JN	0.11	0/352	0.19	0/472

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	JO	0.10	0/321	0.17	0/432
5	JP	0.10	0/352	0.18	0/472
5	JQ	0.10	0/321	0.17	0/432
5	JR	0.10	0/321	0.16	0/432
5	JS	0.10	0/352	0.15	0/472
5	JT	0.11	0/321	0.16	0/432
5	JU	0.10	0/321	0.16	0/432
5	JV	0.10	0/352	0.18	0/472
5	JW	0.11	0/321	0.17	0/432
5	JX	0.10	0/321	0.16	0/432
5	JY	0.10	0/352	0.16	0/472
5	JZ	0.11	0/321	0.17	0/432
5	Ja	0.10	0/321	0.16	0/432
5	Jb	0.10	0/321	0.17	0/432
5	Jc	0.12	0/352	0.19	0/472
5	Jd	0.11	0/321	0.18	0/432
5	Mo	0.12	0/272	0.17	0/365
5	Mp	0.13	0/321	0.24	0/432
5	Mq	0.13	0/321	0.17	0/432
5	Mr	0.12	0/321	0.19	0/432
5	Ms	0.13	0/321	0.17	0/432
5	Mt	0.13	0/321	0.16	0/432
5	Mu	0.12	0/321	0.17	0/432
5	Mv	0.12	0/321	0.17	0/432
5	Mw	0.12	0/321	0.17	0/432
5	Mx	0.14	0/321	0.19	0/432
5	My	0.13	0/321	0.21	0/432
5	Mz	0.12	0/321	0.18	0/432
5	NA	0.12	0/272	0.19	0/365
5	NB	0.13	0/321	0.18	0/432
5	NC	0.13	0/321	0.20	0/432
5	ND	0.13	0/321	0.17	0/432
5	NE	0.12	0/321	0.18	0/432
5	NF	0.13	0/321	0.17	0/432
5	NG	0.13	0/321	0.25	0/432
5	NH	0.11	0/272	0.19	0/365
5	NI	0.11	0/321	0.19	0/432
5	NJ	0.12	0/321	0.19	0/432
5	NK	0.12	0/321	0.24	0/432
5	NL	0.12	0/272	0.16	0/365
5	NM	0.12	0/272	0.20	0/365
5	NN	0.11	0/272	0.23	0/365
5	NO	0.14	0/272	0.24	0/365

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	NP	0.10	0/321	0.15	0/432
5	NQ	0.11	0/260	0.17	0/349
5	NR	0.13	0/321	0.19	0/432
5	NS	0.12	0/321	0.21	0/432
5	NT	0.12	0/321	0.16	0/432
5	NU	0.12	0/321	0.17	0/432
5	NV	0.12	0/321	0.16	0/432
5	NW	0.11	0/321	0.18	0/432
5	NX	0.13	0/321	0.18	0/432
5	NY	0.12	0/321	0.17	0/432
5	NZ	0.12	0/321	0.19	0/432
5	Na	0.09	0/253	0.17	0/338
5	Nb	0.13	0/321	0.18	0/432
5	Nc	0.12	0/321	0.18	0/432
5	Nd	0.12	0/321	0.17	0/432
5	Ne	0.12	0/321	0.16	0/432
5	Nf	0.10	0/260	0.16	0/349
5	Ng	0.12	0/321	0.18	0/432
5	Nh	0.12	0/260	0.16	0/349
5	Ni	0.11	0/321	0.19	0/432
5	Nj	0.11	0/321	0.19	0/432
5	Nk	0.11	0/321	0.17	0/432
5	Nl	0.12	0/260	0.16	0/349
5	Nm	0.12	0/272	0.17	0/365
5	Nn	0.12	0/272	0.22	0/365
5	No	0.12	0/272	0.18	0/365
5	Np	0.11	0/352	0.19	0/472
5	Nq	0.10	0/321	0.16	0/432
5	Nr	0.11	0/321	0.17	0/432
5	Ns	0.10	0/352	0.15	0/472
5	Nt	0.11	0/321	0.18	0/432
5	Nu	0.11	0/321	0.16	0/432
5	Nv	0.11	0/352	0.19	0/472
5	Nw	0.12	0/321	0.25	0/432
5	Nx	0.11	0/321	0.15	0/432
5	Ny	0.11	0/352	0.25	0/472
5	Nz	0.10	0/321	0.17	0/432
5	OA	0.11	0/237	0.16	0/316
5	OB	0.10	0/321	0.16	0/432
5	OC	0.11	0/352	0.19	0/472
5	OD	0.10	0/321	0.17	0/432
5	OE	0.10	0/352	0.18	0/472
5	OF	0.10	0/321	0.16	0/432

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	OG	0.11	0/321	0.16	0/432
5	OH	0.10	0/352	0.15	0/472
5	OI	0.11	0/321	0.16	0/432
5	OJ	0.11	0/237	0.16	0/316
5	OK	0.10	0/352	0.18	0/472
5	OL	0.11	0/321	0.17	0/432
5	OM	0.10	0/321	0.16	0/432
5	ON	0.11	0/268	0.17	0/356
5	OO	0.11	0/321	0.17	0/432
5	OP	0.10	0/321	0.16	0/432
5	OQ	0.10	0/321	0.17	0/432
5	OR	0.12	0/352	0.19	0/472
5	OS	0.11	0/321	0.18	0/432
5	Rd	0.12	0/272	0.17	0/365
5	Re	0.13	0/321	0.24	0/432
5	Rf	0.13	0/321	0.17	0/432
5	Rg	0.12	0/321	0.19	0/432
5	Rh	0.13	0/321	0.18	0/432
5	Ri	0.13	0/321	0.16	0/432
5	Rj	0.12	0/321	0.17	0/432
5	Rk	0.12	0/321	0.17	0/432
5	Rl	0.12	0/321	0.17	0/432
5	Rm	0.13	0/321	0.19	0/432
5	Rn	0.13	0/321	0.21	0/432
5	Ro	0.12	0/321	0.18	0/432
5	Rp	0.12	0/272	0.19	0/365
5	Rq	0.12	0/321	0.19	0/432
5	Rr	0.13	0/321	0.20	0/432
5	Rs	0.13	0/321	0.17	0/432
5	Rt	0.12	0/321	0.18	0/432
5	Ru	0.13	0/321	0.17	0/432
5	Rv	0.13	0/321	0.26	0/432
5	Rw	0.11	0/272	0.19	0/365
5	Rx	0.11	0/321	0.19	0/432
5	Ry	0.12	0/321	0.19	0/432
5	Rz	0.12	0/321	0.24	0/432
5	SA	0.12	0/272	0.16	0/365
5	SB	0.12	0/272	0.20	0/365
5	SC	0.12	0/272	0.23	0/365
5	SD	0.14	0/272	0.23	0/365
5	SE	0.10	0/321	0.15	0/432
5	SF	0.11	0/260	0.17	0/349
5	SG	0.13	0/321	0.19	0/432

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	SH	0.12	0/321	0.21	0/432
5	SI	0.12	0/321	0.16	0/432
5	SJ	0.12	0/321	0.17	0/432
5	SK	0.12	0/321	0.16	0/432
5	SL	0.11	0/321	0.18	0/432
5	SM	0.13	0/321	0.18	0/432
5	SN	0.12	0/321	0.17	0/432
5	SO	0.12	0/321	0.19	0/432
5	SP	0.09	0/253	0.16	0/338
5	SQ	0.13	0/321	0.18	0/432
5	SR	0.12	0/321	0.18	0/432
5	SS	0.13	0/321	0.17	0/432
5	ST	0.12	0/321	0.16	0/432
5	SU	0.10	0/260	0.16	0/349
5	SV	0.11	0/321	0.18	0/432
5	SW	0.12	0/260	0.16	0/349
5	SX	0.11	0/321	0.18	0/432
5	SY	0.12	0/237	0.20	0/316
5	SZ	0.11	0/321	0.17	0/432
5	Sa	0.11	0/260	0.16	0/349
5	Sb	0.12	0/272	0.17	0/365
5	Sc	0.11	0/272	0.22	0/365
5	Sd	0.12	0/272	0.18	0/365
5	Se	0.10	0/352	0.19	0/472
5	Sf	0.10	0/321	0.16	0/432
5	Sg	0.11	0/321	0.17	0/432
5	Sh	0.11	0/352	0.15	0/472
5	Si	0.11	0/321	0.18	0/432
5	Sj	0.10	0/321	0.16	0/432
5	Sk	0.11	0/352	0.19	0/472
5	Sl	0.12	0/237	0.18	0/316
5	Sm	0.11	0/321	0.15	0/432
5	Sn	0.11	0/352	0.25	0/472
5	So	0.10	0/321	0.17	0/432
5	Sp	0.12	0/321	0.18	0/432
5	Sq	0.10	0/321	0.16	0/432
5	Sr	0.11	0/352	0.19	0/472
5	Ss	0.11	0/321	0.17	0/432
5	St	0.10	0/352	0.18	0/472
5	Su	0.10	0/321	0.16	0/432
5	Sv	0.11	0/321	0.16	0/432
5	Sw	0.10	0/352	0.15	0/472
5	Sx	0.11	0/321	0.16	0/432

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	Sy	0.10	0/321	0.16	0/432
5	Sz	0.10	0/352	0.18	0/472
5	TA	0.11	0/321	0.17	0/432
5	TB	0.10	0/321	0.16	0/432
5	TC	0.11	0/268	0.17	0/356
5	TD	0.11	0/321	0.17	0/432
5	TE	0.10	0/321	0.16	0/432
5	TF	0.11	0/321	0.17	0/432
5	TG	0.12	0/352	0.19	0/472
5	TH	0.11	0/321	0.18	0/432
5	WS	0.12	0/272	0.17	0/365
5	WT	0.13	0/321	0.24	0/432
5	WU	0.13	0/321	0.17	0/432
5	WV	0.12	0/321	0.19	0/432
5	WW	0.13	0/321	0.18	0/432
5	WX	0.13	0/321	0.16	0/432
5	WY	0.12	0/321	0.17	0/432
5	WZ	0.12	0/321	0.17	0/432
5	Wa	0.12	0/321	0.17	0/432
5	Wb	0.14	0/321	0.19	0/432
5	Wc	0.13	0/321	0.21	0/432
5	Wd	0.13	0/237	0.19	0/316
5	We	0.12	0/272	0.19	0/365
5	Wf	0.13	0/321	0.18	0/432
5	Wg	0.13	0/321	0.20	0/432
5	Wh	0.13	0/321	0.17	0/432
5	Wi	0.12	0/321	0.18	0/432
5	Wj	0.13	0/321	0.17	0/432
5	Wk	0.14	0/321	0.25	0/432
5	Wl	0.11	0/272	0.19	0/365
5	Wm	0.11	0/321	0.19	0/432
5	Wn	0.12	0/321	0.19	0/432
5	Wo	0.12	0/321	0.24	0/432
5	Wp	0.12	0/272	0.16	0/365
5	Wq	0.12	0/272	0.20	0/365
5	Wr	0.12	0/272	0.23	0/365
5	Ws	0.14	0/272	0.24	0/365
5	Wt	0.10	0/321	0.15	0/432
5	Wu	0.11	0/260	0.17	0/349
5	Wv	0.13	0/321	0.18	0/432
5	Ww	0.12	0/321	0.21	0/432
5	Wx	0.12	0/321	0.16	0/432
5	Wy	0.12	0/321	0.17	0/432

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	Wz	0.12	0/321	0.16	0/432
5	XA	0.11	0/321	0.18	0/432
5	XB	0.13	0/321	0.18	0/432
5	XC	0.12	0/321	0.17	0/432
5	XD	0.12	0/321	0.18	0/432
5	XE	0.09	0/253	0.17	0/338
5	XF	0.13	0/321	0.18	0/432
5	XG	0.13	0/321	0.18	0/432
5	XH	0.12	0/321	0.17	0/432
5	XI	0.12	0/321	0.17	0/432
5	XJ	0.10	0/260	0.16	0/349
5	XK	0.11	0/321	0.18	0/432
5	XL	0.12	0/260	0.16	0/349
5	XM	0.11	0/321	0.18	0/432
5	XN	0.11	0/321	0.19	0/432
5	XO	0.11	0/321	0.17	0/432
5	XP	0.11	0/260	0.16	0/349
5	XQ	0.12	0/272	0.16	0/365
5	XR	0.12	0/272	0.22	0/365
5	XS	0.12	0/272	0.18	0/365
5	XT	0.11	0/352	0.19	0/472
5	XU	0.11	0/237	0.17	0/316
5	XV	0.11	0/321	0.17	0/432
5	XW	0.10	0/352	0.15	0/472
5	XX	0.11	0/321	0.18	0/432
5	XY	0.10	0/321	0.16	0/432
5	XZ	0.11	0/352	0.19	0/472
5	Xa	0.12	0/321	0.25	0/432
5	Xb	0.11	0/321	0.15	0/432
5	Xc	0.11	0/352	0.25	0/472
5	Xd	0.10	0/321	0.17	0/432
5	Xe	0.12	0/321	0.18	0/432
5	Xf	0.10	0/321	0.16	0/432
5	Xg	0.11	0/268	0.19	0/356
5	Xh	0.10	0/321	0.17	0/432
5	Xi	0.10	0/352	0.18	0/472
5	Xj	0.11	0/321	0.16	0/432
5	Xk	0.11	0/321	0.16	0/432
5	Xl	0.10	0/352	0.16	0/472
5	Xm	0.11	0/321	0.16	0/432
5	Xn	0.10	0/321	0.16	0/432
5	Xo	0.10	0/352	0.18	0/472
5	Xp	0.11	0/321	0.17	0/432

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	Xq	0.10	0/321	0.16	0/432
5	Xr	0.10	0/352	0.16	0/472
5	Xs	0.11	0/321	0.17	0/432
5	Xt	0.10	0/321	0.16	0/432
5	Xu	0.10	0/321	0.17	0/432
5	Xv	0.12	0/352	0.19	0/472
5	Xw	0.11	0/321	0.18	0/432
5	YJ	0.12	0/910	0.34	0/1218
5	YK	0.13	0/910	0.32	0/1218
5	YL	0.11	0/723	0.29	0/969
5	YM	0.11	0/723	0.29	0/969
5	YN	0.13	0/910	0.35	0/1218
5	YO	0.11	0/723	0.29	0/969
5	YP	0.14	0/910	0.36	0/1218
5	YQ	0.17	0/910	0.40	0/1218
5	YR	0.16	0/910	0.39	0/1218
5	YS	0.13	0/723	0.34	0/969
5	YT	0.12	0/910	0.30	0/1218
5	YU	0.13	0/910	0.31	0/1218
5	YV	0.10	0/910	0.27	0/1218
5	YW	0.14	0/796	0.34	0/1066
5	YX	0.12	0/910	0.30	0/1218
5	YY	0.14	0/796	0.32	0/1066
5	YZ	0.13	0/910	0.32	0/1218
5	Ya	0.11	0/910	0.27	0/1218
5	Yb	0.15	0/796	0.38	0/1066
5	Yc	0.14	0/910	0.34	0/1218
5	Yd	0.11	0/796	0.31	0/1066
5	Ye	0.12	0/910	0.32	0/1218
5	Yf	0.12	0/796	0.35	0/1066
5	Yg	0.14	0/910	0.38	0/1218
5	Yh	0.10	0/910	0.26	0/1218
5	Yi	0.15	0/796	0.36	0/1066
5	Yj	0.12	0/910	0.30	0/1218
5	Yk	0.12	0/910	0.27	0/1218
5	Yl	0.09	0/796	0.27	0/1066
5	Ym	0.08	0/910	0.24	0/1218
5	Yn	0.09	0/796	0.28	0/1066
5	Yo	0.11	0/910	0.27	0/1218
5	Yp	0.09	0/796	0.26	0/1066
5	Yq	0.09	0/910	0.26	0/1218
5	Yr	0.11	0/796	0.29	0/1066
5	Ys	0.12	0/910	0.29	0/1218

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	Yt	0.09	0/796	0.29	0/1066
5	Yu	0.10	0/910	0.26	0/1218
5	Yv	0.09	0/796	0.28	0/1066
5	Yw	0.10	0/910	0.27	0/1218
5	Yx	0.09	0/796	0.29	0/1066
5	Yy	0.09	0/910	0.26	0/1218
5	Yz	0.09	0/796	0.28	0/1066
5	ZA	0.12	0/910	0.28	0/1218
5	ZB	0.10	0/796	0.28	0/1066
5	ZC	0.09	0/910	0.26	0/1218
5	ZD	0.09	0/796	0.27	0/1066
5	ZE	0.10	0/910	0.27	0/1218
5	ZF	0.09	0/796	0.28	0/1066
5	ZG	0.09	0/910	0.27	0/1218
5	ZH	0.09	0/796	0.28	0/1066
5	ZI	0.10	0/910	0.27	0/1218
5	ZJ	0.10	0/796	0.31	0/1066
5	ZK	0.12	0/910	0.27	0/1218
5	ZL	0.10	0/796	0.29	0/1066
5	ZM	0.09	0/910	0.26	0/1218
5	ZN	0.08	0/796	0.26	0/1066
5	ZO	0.11	0/910	0.30	0/1218
5	ZP	0.09	0/760	0.28	0/1019
5	ZQ	0.09	0/910	0.26	0/1218
5	ZR	0.10	0/796	0.27	0/1066
5	ZS	0.10	0/910	0.27	0/1218
5	ZT	0.10	0/796	0.27	0/1066
5	ZU	0.09	0/910	0.27	0/1218
5	ZV	0.10	0/796	0.27	0/1066
5	ZW	0.09	0/910	0.26	0/1218
5	ZX	0.10	0/796	0.27	0/1066
5	ZY	0.10	0/910	0.28	0/1218
5	ZZ	0.10	0/796	0.27	0/1066
5	Za	0.09	0/910	0.26	0/1218
5	Zb	0.10	0/796	0.27	0/1066
5	Zc	0.10	0/910	0.28	0/1218
5	Zd	0.10	0/796	0.27	0/1066
5	Ze	0.09	0/910	0.26	0/1218
5	Zf	0.10	0/796	0.27	0/1066
5	Zg	0.09	0/910	0.26	0/1218
5	Zh	0.10	0/796	0.27	0/1066
5	Zi	0.09	0/910	0.26	0/1218
5	Zj	0.10	0/796	0.27	0/1066

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	Zk	0.09	0/910	0.26	0/1218
5	Zl	0.10	0/796	0.27	0/1066
5	Zm	0.09	0/910	0.26	0/1218
5	Zn	0.10	0/796	0.27	0/1066
5	Zo	0.10	0/910	0.27	0/1218
5	Zp	0.10	0/796	0.27	0/1066
5	Zq	0.10	0/910	0.28	0/1218
5	Zr	0.10	0/796	0.27	0/1066
5	Zs	0.09	0/910	0.26	0/1218
5	Zt	0.10	0/796	0.27	0/1066
5	Zu	0.09	0/910	0.26	0/1218
5	Zv	0.10	0/796	0.27	0/1066
5	Zw	0.09	0/910	0.25	0/1218
5	Zx	0.10	0/796	0.28	0/1066
5	Zy	0.09	0/910	0.25	0/1218
5	Zz	0.10	0/796	0.27	0/1066
5	aA	0.09	0/910	0.25	0/1218
5	aB	0.10	0/796	0.27	0/1066
5	aC	0.09	0/910	0.25	0/1218
5	aD	0.10	0/796	0.27	0/1066
5	aE	0.09	0/910	0.25	0/1218
5	aF	0.10	0/796	0.27	0/1066
5	aG	0.09	0/910	0.25	0/1218
5	aH	0.10	0/796	0.27	0/1066
5	aI	0.09	0/910	0.25	0/1218
5	aJ	0.10	0/796	0.27	0/1066
5	aK	0.09	0/910	0.25	0/1218
5	aL	0.10	0/796	0.27	0/1066
5	aM	0.09	0/910	0.25	0/1218
5	aN	0.10	0/796	0.28	0/1066
5	aO	0.09	0/910	0.25	0/1218
5	aP	0.10	0/796	0.27	0/1066
5	aQ	0.09	0/910	0.25	0/1218
5	aR	0.10	0/796	0.28	0/1066
5	aS	0.09	0/910	0.25	0/1218
5	aT	0.10	0/796	0.27	0/1066
5	aU	0.09	0/910	0.25	0/1218
5	aV	0.10	0/796	0.28	0/1066
5	aW	0.09	0/910	0.25	0/1218
5	aX	0.10	0/796	0.28	0/1066
5	aY	0.09	0/910	0.25	0/1218
5	aZ	0.10	0/796	0.27	0/1066
5	aa	0.09	0/910	0.25	0/1218

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	ab	0.10	0/796	0.27	0/1066
5	ac	0.09	0/910	0.25	0/1218
5	ad	0.10	0/796	0.27	0/1066
5	ae	0.09	0/910	0.25	0/1218
5	af	0.10	0/796	0.27	0/1066
5	ag	0.09	0/910	0.25	0/1218
5	ah	0.10	0/796	0.28	0/1066
5	ai	0.09	0/910	0.25	0/1218
5	aj	0.10	0/796	0.27	0/1066
5	ak	0.09	0/910	0.25	0/1218
5	al	0.10	0/796	0.28	0/1066
5	am	0.09	0/910	0.25	0/1218
5	an	0.10	0/796	0.27	0/1066
5	ao	0.09	0/910	0.25	0/1218
5	ap	0.10	0/796	0.28	0/1066
5	aq	0.09	0/910	0.25	0/1218
5	ar	0.10	0/796	0.27	0/1066
5	as	0.09	0/910	0.25	0/1218
5	at	0.10	0/796	0.27	0/1066
5	au	0.09	0/910	0.25	0/1218
5	av	0.10	0/796	0.27	0/1066
5	aw	0.09	0/910	0.25	0/1218
5	ax	0.10	0/796	0.27	0/1066
5	ay	0.09	0/910	0.25	0/1218
5	az	0.10	0/796	0.27	0/1066
5	bA	0.09	0/910	0.25	0/1218
5	bB	0.10	0/796	0.28	0/1066
5	bC	0.09	0/910	0.25	0/1218
5	bD	0.10	0/796	0.27	0/1066
5	bE	0.09	0/910	0.25	0/1218
5	bF	0.10	0/796	0.27	0/1066
5	bG	0.09	0/910	0.25	0/1218
5	bH	0.10	0/796	0.27	0/1066
5	bI	0.09	0/910	0.26	0/1218
5	bJ	0.10	0/796	0.28	0/1066
5	bK	0.09	0/910	0.25	0/1218
5	bL	0.10	0/796	0.27	0/1066
5	bM	0.09	0/910	0.25	0/1218
5	bN	0.10	0/796	0.27	0/1066
5	bO	0.09	0/910	0.26	0/1218
5	bP	0.10	0/796	0.27	0/1066
5	bQ	0.09	0/910	0.25	0/1218
5	bR	0.10	0/796	0.27	0/1066

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	bS	0.09	0/910	0.25	0/1218
5	bT	0.10	0/796	0.27	0/1066
5	bU	0.09	0/910	0.25	0/1218
5	bV	0.10	0/796	0.27	0/1066
5	bW	0.09	0/910	0.25	0/1218
5	bX	0.10	0/796	0.27	0/1066
5	bY	0.09	0/910	0.25	0/1218
5	bZ	0.10	0/796	0.28	0/1066
5	ba	0.09	0/910	0.26	0/1218
5	bb	0.10	0/796	0.27	0/1066
5	bc	0.09	0/910	0.26	0/1218
5	bd	0.10	0/796	0.27	0/1066
5	be	0.09	0/910	0.25	0/1218
5	bf	0.10	0/796	0.27	0/1066
5	bg	0.09	0/910	0.25	0/1218
5	bh	0.10	0/796	0.28	0/1066
5	bi	0.09	0/910	0.25	0/1218
5	bj	0.10	0/796	0.28	0/1066
5	bk	0.09	0/910	0.25	0/1218
5	bl	0.10	0/796	0.28	0/1066
5	bm	0.09	0/910	0.26	0/1218
5	bn	0.10	0/796	0.27	0/1066
5	bo	0.09	0/910	0.25	0/1218
5	bp	0.10	0/796	0.27	0/1066
5	bq	0.09	0/910	0.25	0/1218
5	br	0.10	0/796	0.27	0/1066
5	bs	0.09	0/910	0.25	0/1218
5	bt	0.10	0/796	0.28	0/1066
5	bu	0.09	0/910	0.25	0/1218
5	bv	0.10	0/796	0.27	0/1066
5	bw	0.09	0/910	0.25	0/1218
5	bx	0.10	0/796	0.27	0/1066
5	by	0.09	0/910	0.25	0/1218
5	bz	0.10	0/796	0.27	0/1066
5	cA	0.09	0/910	0.25	0/1218
5	cB	0.10	0/796	0.28	0/1066
5	cC	0.09	0/910	0.25	0/1218
5	cD	0.10	0/796	0.27	0/1066
5	cE	0.09	0/910	0.26	0/1218
5	cF	0.10	0/796	0.27	0/1066
5	cG	0.09	0/910	0.26	0/1218
5	cH	0.10	0/796	0.27	0/1066
5	cI	0.09	0/910	0.25	0/1218

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	cJ	0.10	0/796	0.27	0/1066
5	cK	0.09	0/910	0.25	0/1218
5	cL	0.10	0/796	0.27	0/1066
5	cM	0.09	0/910	0.25	0/1218
5	cN	0.10	0/796	0.27	0/1066
5	cO	0.09	0/910	0.25	0/1218
5	cP	0.10	0/796	0.27	0/1066
5	cQ	0.09	0/910	0.25	0/1218
5	cR	0.10	0/796	0.28	0/1066
5	cS	0.09	0/910	0.25	0/1218
5	cT	0.10	0/796	0.27	0/1066
5	cU	0.09	0/910	0.25	0/1218
5	cV	0.10	0/796	0.27	0/1066
5	cW	0.09	0/910	0.25	0/1218
5	cX	0.10	0/796	0.27	0/1066
5	cY	0.09	0/910	0.25	0/1218
5	cZ	0.10	0/796	0.27	0/1066
5	ca	0.09	0/910	0.25	0/1218
5	cb	0.10	0/796	0.27	0/1066
5	cc	0.09	0/910	0.25	0/1218
5	cd	0.10	0/796	0.27	0/1066
5	ce	0.09	0/910	0.25	0/1218
5	cf	0.10	0/796	0.27	0/1066
5	cg	0.09	0/910	0.25	0/1218
5	ch	0.10	0/796	0.28	0/1066
5	ci	0.09	0/910	0.25	0/1218
5	cj	0.10	0/796	0.27	0/1066
5	ck	0.09	0/910	0.25	0/1218
5	cl	0.10	0/796	0.27	0/1066
5	cm	0.09	0/910	0.25	0/1218
5	cn	0.10	0/796	0.27	0/1066
5	co	0.09	0/910	0.25	0/1218
5	cp	0.10	0/796	0.27	0/1066
5	cq	0.09	0/910	0.25	0/1218
5	cr	0.10	0/796	0.27	0/1066
5	cs	0.09	0/910	0.25	0/1218
5	ct	0.10	0/796	0.28	0/1066
5	cu	0.09	0/910	0.25	0/1218
5	cv	0.10	0/796	0.27	0/1066
5	cw	0.09	0/910	0.25	0/1218
5	cx	0.10	0/796	0.27	0/1066
5	cy	0.09	0/910	0.25	0/1218
5	cz	0.10	0/796	0.27	0/1066

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	dA	0.09	0/910	0.25	0/1218
5	dB	0.10	0/796	0.27	0/1066
5	dC	0.09	0/910	0.25	0/1218
5	dD	0.10	0/796	0.27	0/1066
5	dE	0.09	0/910	0.25	0/1218
5	dF	0.10	0/796	0.27	0/1066
5	dG	0.09	0/910	0.25	0/1218
5	dH	0.10	0/796	0.28	0/1066
5	dI	0.09	0/910	0.25	0/1218
5	dJ	0.10	0/796	0.27	0/1066
5	dK	0.09	0/910	0.25	0/1218
5	dL	0.10	0/796	0.27	0/1066
5	dM	0.09	0/910	0.25	0/1218
5	dN	0.10	0/796	0.28	0/1066
5	dO	0.09	0/910	0.25	0/1218
5	dP	0.10	0/796	0.27	0/1066
5	dQ	0.09	0/910	0.25	0/1218
5	dR	0.10	0/796	0.27	0/1066
5	dS	0.09	0/910	0.25	0/1218
5	dT	0.10	0/796	0.28	0/1066
5	dU	0.09	0/910	0.25	0/1218
5	dV	0.10	0/796	0.28	0/1066
5	dW	0.09	0/910	0.25	0/1218
5	dX	0.10	0/796	0.27	0/1066
5	dY	0.09	0/910	0.25	0/1218
5	dZ	0.10	0/796	0.28	0/1066
5	da	0.09	0/910	0.25	0/1218
5	db	0.10	0/796	0.27	0/1066
5	dc	0.09	0/910	0.25	0/1218
5	dd	0.10	0/796	0.27	0/1066
5	de	0.09	0/910	0.25	0/1218
5	df	0.10	0/796	0.28	0/1066
5	dg	0.12	0/910	0.29	0/1218
5	dh	0.10	0/796	0.28	0/1066
5	di	0.12	0/910	0.30	0/1218
5	dj	0.10	0/796	0.28	0/1066
5	dk	0.11	0/910	0.29	0/1218
5	dl	0.10	0/796	0.28	0/1066
5	dm	0.11	0/910	0.29	0/1218
5	dn	0.10	0/796	0.28	0/1066
5	do	0.12	0/910	0.32	0/1218
5	dp	0.10	0/796	0.28	0/1066
5	dq	0.11	0/910	0.31	0/1218

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	dr	0.10	0/796	0.28	0/1066
5	ds	0.11	0/910	0.29	0/1218
5	dt	0.10	0/796	0.28	0/1066
5	du	0.12	0/910	0.30	0/1218
5	dv	0.10	0/796	0.28	0/1066
5	dw	0.12	0/910	0.31	0/1218
5	dx	0.10	0/796	0.28	0/1066
5	dy	0.11	0/910	0.29	0/1218
5	dz	0.10	0/796	0.28	0/1066
5	eA	0.11	0/910	0.30	0/1218
5	eB	0.10	0/796	0.28	0/1066
5	eC	0.13	0/910	0.30	0/1218
5	eD	0.10	0/796	0.28	0/1066
5	eE	0.13	0/910	0.31	0/1218
5	eF	0.10	0/796	0.28	0/1066
5	eG	0.11	0/910	0.29	0/1218
5	eH	0.10	0/796	0.28	0/1066
5	eI	0.13	0/910	0.30	0/1218
5	eJ	0.10	0/796	0.28	0/1066
5	eK	0.11	0/910	0.29	0/1218
5	eL	0.10	0/796	0.28	0/1066
5	eM	0.11	0/910	0.30	0/1218
5	eN	0.10	0/796	0.30	0/1066
5	eO	0.12	0/910	0.29	0/1218
5	eP	0.10	0/796	0.30	0/1066
5	eQ	0.11	0/910	0.28	0/1218
5	eR	0.10	0/796	0.28	0/1066
5	eS	0.11	0/910	0.28	0/1218
5	eT	0.10	0/796	0.29	0/1066
5	eU	0.11	0/910	0.29	0/1218
5	eV	0.10	0/796	0.28	0/1066
5	eW	0.11	0/910	0.30	0/1218
5	eX	0.10	0/796	0.29	0/1066
5	eY	0.11	0/910	0.29	0/1218
5	eZ	0.10	0/796	0.29	0/1066
5	ea	0.12	0/910	0.30	0/1218
5	eb	0.10	0/796	0.29	0/1066
5	ec	0.12	0/910	0.29	0/1218
5	ed	0.10	0/796	0.28	0/1066
5	ee	0.11	0/910	0.30	0/1218
5	ef	0.10	0/796	0.29	0/1066
5	eg	0.12	0/910	0.30	0/1218
5	eh	0.10	0/796	0.28	0/1066

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	ei	0.10	0/910	0.30	0/1218
5	ej	0.10	0/796	0.28	0/1066
5	ek	0.12	0/910	0.29	0/1218
5	el	0.10	0/796	0.28	0/1066
5	em	0.10	0/910	0.29	0/1218
5	en	0.10	0/796	0.28	0/1066
5	eo	0.12	0/910	0.30	0/1218
5	ep	0.10	0/796	0.30	0/1066
5	eq	0.12	0/910	0.29	0/1218
5	er	0.10	0/796	0.30	0/1066
5	es	0.09	0/910	0.25	0/1218
5	et	0.10	0/796	0.28	0/1066
5	eu	0.09	0/910	0.25	0/1218
5	ev	0.10	0/796	0.28	0/1066
5	ew	0.09	0/910	0.25	0/1218
5	ex	0.10	0/796	0.27	0/1066
5	ey	0.09	0/910	0.25	0/1218
5	ez	0.10	0/796	0.28	0/1066
5	fA	0.09	0/910	0.25	0/1218
5	fB	0.10	0/796	0.28	0/1066
5	fC	0.09	0/910	0.25	0/1218
5	fD	0.10	0/796	0.28	0/1066
5	fE	0.09	0/910	0.25	0/1218
5	fF	0.10	0/796	0.27	0/1066
5	fG	0.09	0/910	0.25	0/1218
5	fH	0.10	0/796	0.27	0/1066
5	fI	0.09	0/910	0.25	0/1218
5	fJ	0.10	0/796	0.28	0/1066
5	fK	0.09	0/910	0.25	0/1218
5	fL	0.10	0/796	0.28	0/1066
5	fM	0.09	0/910	0.25	0/1218
5	fN	0.10	0/796	0.28	0/1066
5	fO	0.09	0/910	0.25	0/1218
5	fP	0.10	0/796	0.27	0/1066
5	fQ	0.09	0/910	0.25	0/1218
5	fR	0.10	0/796	0.27	0/1066
5	fS	0.09	0/910	0.25	0/1218
5	fT	0.10	0/796	0.27	0/1066
5	fU	0.09	0/910	0.26	0/1218
5	fV	0.10	0/796	0.28	0/1066
5	fW	0.09	0/910	0.25	0/1218
5	fX	0.10	0/796	0.28	0/1066
5	fY	0.09	0/910	0.25	0/1218

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
5	fZ	0.10	0/796	0.27	0/1066
5	fa	0.09	0/910	0.25	0/1218
5	fb	0.10	0/796	0.28	0/1066
5	fc	0.09	0/910	0.25	0/1218
5	fd	0.10	0/796	0.28	0/1066
5	fe	0.09	0/910	0.25	0/1218
5	ff	0.10	0/796	0.28	0/1066
5	fg	0.09	0/910	0.25	0/1218
5	fh	0.10	0/796	0.28	0/1066
5	fi	0.09	0/910	0.25	0/1218
5	fj	0.10	0/796	0.28	0/1066
5	fk	0.09	0/910	0.25	0/1218
5	fl	0.10	0/796	0.28	0/1066
5	fm	0.09	0/910	0.25	0/1218
5	fn	0.10	0/796	0.28	0/1066
5	fo	0.09	0/910	0.25	0/1218
5	fp	0.10	0/796	0.28	0/1066
5	fq	0.09	0/910	0.25	0/1218
5	fr	0.10	0/796	0.28	0/1066
5	fs	0.09	0/910	0.25	0/1218
5	ft	0.10	0/796	0.28	0/1066
5	fu	0.09	0/910	0.25	0/1218
5	fv	0.10	0/796	0.28	0/1066
5	fw	0.09	0/910	0.25	0/1218
5	fx	0.10	0/796	0.28	0/1066
5	fy	0.09	0/910	0.25	0/1218
5	fz	0.10	0/796	0.28	0/1066
5	gA	0.09	0/910	0.25	0/1218
5	gB	0.10	0/796	0.28	0/1066
5	gC	0.09	0/910	0.25	0/1218
5	gD	0.10	0/796	0.28	0/1066
6	Xx	0.10	0/2796	0.27	0/3762
6	Xy	0.11	0/3008	0.27	0/4051
6	Xz	0.11	0/2878	0.27	0/3874
6	YA	0.11	0/2814	0.26	0/3786
6	YB	0.11	0/2937	0.26	0/3954
6	YC	0.10	0/2805	0.26	0/3774
6	YD	0.10	0/2838	0.25	0/3818
6	YE	0.10	0/2879	0.25	0/3874
6	YF	0.09	0/2803	0.24	0/3771
6	YG	0.10	0/2937	0.26	0/3954
6	YH	0.11	0/2943	0.28	0/3962
6	YI	0.11	0/3050	0.27	0/4107

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
All	All	0.13	0/2082742	0.24	0/2806341

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

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	AA	2488	0	2527	21	0
1	AB	2510	0	2547	20	0
1	AC	2510	0	2547	20	0
1	AD	2488	0	2527	16	0
1	AE	2510	0	2547	15	0
1	AF	2510	0	2547	19	0
1	AG	2488	0	2527	16	0
1	AH	2510	0	2547	21	0
1	AI	2510	0	2547	19	0
1	AJ	2488	0	2527	18	0
1	AK	2510	0	2547	23	0
1	AL	2510	0	2547	19	0
1	AM	2488	0	2527	19	0
1	AN	2510	0	2547	18	0
1	AO	2510	0	2547	24	0
1	AP	2488	0	2527	18	0
1	AQ	2510	0	2547	17	0
1	AR	2510	0	2547	17	0
1	AS	2510	0	2547	36	0
1	AT	2510	0	2547	26	0
1	AU	2510	0	2547	32	0
1	AV	2510	0	2547	29	0
1	AW	2510	0	2547	29	0
1	AX	2510	0	2547	31	0
1	AY	2510	0	2547	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AZ	2510	0	2547	34	0
1	Aa	2510	0	2547	35	0
1	Ab	2510	0	2547	15	0
1	Ac	2405	0	2453	28	0
1	Ad	2488	0	2527	16	0
1	Ae	2510	0	2547	19	0
1	Af	2510	0	2547	17	0
1	Ag	2488	0	2527	14	0
1	Ah	2510	0	2547	19	0
1	Ai	2510	0	2547	21	0
1	Aj	2488	0	2527	18	0
1	Ak	2510	0	2547	29	0
1	Al	2510	0	2547	19	0
1	Am	2505	0	2545	22	0
1	An	2510	0	2547	14	0
1	Ao	2510	0	2547	25	0
1	Ap	2488	0	2527	22	0
1	Aq	2510	0	2547	15	0
1	Ar	2505	0	2545	28	0
1	As	2510	0	2547	31	0
1	At	2383	0	2425	27	0
1	Au	2510	0	2547	31	0
1	Av	2510	0	2547	30	0
1	Aw	2510	0	2547	21	0
1	Ax	2383	0	2425	28	0
1	Ay	2510	0	2547	34	0
1	Az	2510	0	2547	34	0
1	BA	2510	0	2547	33	0
1	BB	2510	0	2547	34	0
1	BC	2510	0	2547	28	0
1	BD	2510	0	2547	30	0
1	BE	2510	0	2547	27	0
1	BF	2510	0	2547	36	0
1	BG	2510	0	2547	33	0
1	BH	2510	0	2547	41	0
1	BI	2510	0	2547	29	0
1	BJ	2510	0	2547	27	0
1	BK	2510	0	2547	39	0
1	BL	2510	0	2547	38	0
1	BM	2510	0	2547	26	0
1	BN	2510	0	2547	31	0
1	BO	2510	0	2547	40	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BP	2510	0	2547	31	0
1	BQ	2510	0	2547	28	0
1	BR	2510	0	2547	33	0
1	BS	2510	0	2547	28	0
1	BT	2510	0	2547	31	0
1	BU	2510	0	2547	33	0
1	BV	2510	0	2547	30	0
1	BW	2510	0	2547	39	0
1	BX	2510	0	2547	30	0
1	BY	2510	0	2547	29	0
1	BZ	2510	0	2547	34	0
1	Ba	2510	0	2547	37	0
1	Bb	2510	0	2547	31	0
1	Bc	2510	0	2547	41	0
1	Bd	2510	0	2547	46	0
1	Be	2510	0	2547	31	0
1	Ep	2488	0	2527	19	0
1	Eq	2510	0	2547	19	0
1	Er	2510	0	2547	22	0
1	Es	2488	0	2527	13	0
1	Et	2510	0	2547	16	0
1	Eu	2510	0	2547	22	0
1	Ev	2488	0	2527	14	0
1	Ew	2510	0	2547	23	0
1	Ex	2510	0	2547	20	0
1	Ey	2488	0	2527	17	0
1	Ez	2510	0	2547	22	0
1	FA	2510	0	2547	21	0
1	FB	2488	0	2527	20	0
1	FC	2510	0	2547	16	0
1	FD	2510	0	2547	22	0
1	FE	2488	0	2527	16	0
1	FF	2510	0	2547	19	0
1	FG	2510	0	2547	20	0
1	FH	2510	0	2547	36	0
1	FI	2510	0	2547	27	0
1	FJ	2510	0	2547	33	0
1	FK	2510	0	2547	30	0
1	FL	2510	0	2547	27	0
1	FM	2510	0	2547	31	0
1	FN	2510	0	2547	33	0
1	FO	2510	0	2547	32	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	FP	2510	0	2547	33	0
1	FQ	2510	0	2547	16	0
1	FR	2405	0	2453	27	0
1	FS	2488	0	2527	16	0
1	FT	2510	0	2547	17	0
1	FU	2510	0	2547	17	0
1	FV	2488	0	2527	17	0
1	FW	2510	0	2547	19	0
1	FX	2510	0	2547	22	0
1	FY	2488	0	2527	18	0
1	FZ	2510	0	2547	28	0
1	Fa	2510	0	2547	21	0
1	Fb	2505	0	2545	24	0
1	Fc	2510	0	2547	14	0
1	Fd	2510	0	2547	27	0
1	Fe	2488	0	2527	22	0
1	Ff	2510	0	2547	17	0
1	Fg	2505	0	2545	23	0
1	Fh	2510	0	2547	31	0
1	Fi	2383	0	2425	26	0
1	Fj	2510	0	2547	30	0
1	Fk	2510	0	2547	29	0
1	Fl	2510	0	2547	22	0
1	Fm	2383	0	2425	25	0
1	Fn	2510	0	2547	35	0
1	Fo	2510	0	2547	30	0
1	Fp	2510	0	2547	33	0
1	Fq	2510	0	2547	34	0
1	Fr	2510	0	2547	30	0
1	Fs	2510	0	2547	31	0
1	Ft	2510	0	2547	28	0
1	Fu	2510	0	2547	37	0
1	Fv	2510	0	2547	31	0
1	Fw	2510	0	2547	40	0
1	Fx	2510	0	2547	28	0
1	Fy	2510	0	2547	24	0
1	Fz	2510	0	2547	40	0
1	GA	2510	0	2547	39	0
1	GB	2510	0	2547	26	0
1	GC	2510	0	2547	31	0
1	GD	2510	0	2547	41	0
1	GE	2510	0	2547	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	GF	2510	0	2547	31	0
1	GG	2510	0	2547	33	0
1	GH	2510	0	2547	28	0
1	GI	2510	0	2547	31	0
1	GJ	2510	0	2547	34	0
1	GK	2510	0	2547	31	0
1	GL	2510	0	2547	40	0
1	GM	2510	0	2547	29	0
1	GN	2510	0	2547	28	0
1	GO	2510	0	2547	34	0
1	GP	2510	0	2547	38	0
1	GQ	2510	0	2547	34	0
1	GR	2510	0	2547	34	0
1	GS	2510	0	2547	46	0
1	GT	2510	0	2547	30	0
1	Je	2488	0	2527	21	0
1	Jf	2510	0	2547	21	0
1	Jg	2510	0	2547	20	0
1	Jh	2488	0	2527	13	0
1	Ji	2510	0	2547	16	0
1	Jj	2510	0	2547	24	0
1	Jk	2488	0	2527	13	0
1	Jl	2510	0	2547	22	0
1	Jm	2510	0	2547	21	0
1	Jn	2488	0	2527	16	0
1	Jo	2510	0	2547	22	0
1	Jp	2510	0	2547	22	0
1	Jq	2488	0	2527	19	0
1	Jr	2510	0	2547	16	0
1	Js	2510	0	2547	24	0
1	Jt	2488	0	2527	19	0
1	Ju	2510	0	2547	17	0
1	Jv	2510	0	2547	20	0
1	Jw	2510	0	2547	35	0
1	Jx	2510	0	2547	26	0
1	Jy	2510	0	2547	34	0
1	Jz	2510	0	2547	31	0
1	KA	2510	0	2547	30	0
1	KB	2510	0	2547	33	0
1	KC	2510	0	2547	32	0
1	KD	2510	0	2547	34	0
1	KE	2510	0	2547	32	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	KF	2510	0	2547	19	0
1	KG	2405	0	2453	29	0
1	KH	2488	0	2527	18	0
1	KI	2510	0	2547	17	0
1	KJ	2510	0	2547	18	0
1	KK	2488	0	2527	17	0
1	KL	2510	0	2547	22	0
1	KM	2510	0	2547	24	0
1	KN	2488	0	2527	17	0
1	KO	2510	0	2547	27	0
1	KP	2510	0	2547	21	0
1	KQ	2505	0	2545	25	0
1	KR	2510	0	2547	15	0
1	KS	2510	0	2547	28	0
1	KT	2488	0	2527	23	0
1	KU	2510	0	2547	17	0
1	KV	2505	0	2545	28	0
1	KW	2510	0	2547	32	0
1	KX	2383	0	2425	25	0
1	KY	2510	0	2547	32	0
1	KZ	2510	0	2547	30	0
1	Ka	2510	0	2547	21	0
1	Kb	2383	0	2425	26	0
1	Kc	2510	0	2547	32	0
1	Kd	2510	0	2547	32	0
1	Ke	2510	0	2547	34	0
1	Kf	2510	0	2547	37	0
1	Kg	2510	0	2547	28	0
1	Kh	2510	0	2547	32	0
1	Ki	2510	0	2547	27	0
1	Kj	2510	0	2547	38	0
1	Kk	2510	0	2547	31	0
1	Kl	2510	0	2547	42	0
1	Km	2510	0	2547	24	0
1	Kn	2510	0	2547	24	0
1	Ko	2510	0	2547	37	0
1	Kp	2510	0	2547	36	0
1	Kq	2510	0	2547	25	0
1	Kr	2510	0	2547	30	0
1	Ks	2510	0	2547	41	0
1	Kt	2510	0	2547	28	0
1	Ku	2510	0	2547	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Kv	2510	0	2547	35	0
1	Kw	2510	0	2547	29	0
1	Kx	2510	0	2547	28	0
1	Ky	2510	0	2547	37	0
1	Kz	2510	0	2547	33	0
1	LA	2510	0	2547	39	0
1	LB	2510	0	2547	27	0
1	LC	2510	0	2547	29	0
1	LD	2510	0	2547	33	0
1	LE	2510	0	2547	39	0
1	LF	2510	0	2547	33	0
1	LG	2510	0	2547	36	0
1	LH	2510	0	2547	46	0
1	LI	2510	0	2547	30	0
1	OT	2488	0	2527	20	0
1	OU	2510	0	2547	20	0
1	OV	2510	0	2547	19	0
1	OW	2488	0	2527	13	0
1	OX	2510	0	2547	16	0
1	OY	2510	0	2547	20	0
1	OZ	2488	0	2527	16	0
1	Oa	2510	0	2547	21	0
1	Ob	2510	0	2547	20	0
1	Oc	2488	0	2527	19	0
1	Od	2510	0	2547	21	0
1	Oe	2510	0	2547	22	0
1	Of	2488	0	2527	19	0
1	Og	2510	0	2547	18	0
1	Oh	2510	0	2547	23	0
1	Oi	2488	0	2527	16	0
1	Oj	2510	0	2547	17	0
1	Ok	2510	0	2547	19	0
1	Ol	2510	0	2547	38	0
1	Om	2510	0	2547	24	0
1	On	2510	0	2547	34	0
1	Oo	2510	0	2547	28	0
1	Op	2510	0	2547	31	0
1	Oq	2510	0	2547	32	0
1	Or	2510	0	2547	31	0
1	Os	2510	0	2547	33	0
1	Ot	2510	0	2547	34	0
1	Ou	2510	0	2547	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Ov	2405	0	2453	26	0
1	Ow	2488	0	2527	18	0
1	Ox	2510	0	2547	16	0
1	Oy	2510	0	2547	19	0
1	Oz	2488	0	2527	16	0
1	PA	2510	0	2547	19	0
1	PB	2510	0	2547	21	0
1	PC	2488	0	2527	18	0
1	PD	2510	0	2547	28	0
1	PE	2510	0	2547	19	0
1	PF	2505	0	2545	22	0
1	PG	2510	0	2547	14	0
1	PH	2510	0	2547	28	0
1	PI	2488	0	2527	23	0
1	PJ	2510	0	2547	18	0
1	PK	2505	0	2545	27	0
1	PL	2510	0	2547	33	0
1	PM	2383	0	2425	29	0
1	PN	2510	0	2547	32	0
1	PO	2510	0	2547	28	0
1	PP	2510	0	2547	21	0
1	PQ	2383	0	2425	24	0
1	PR	2510	0	2547	32	0
1	PS	2510	0	2547	32	0
1	PT	2510	0	2547	33	0
1	PU	2510	0	2547	33	0
1	PV	2510	0	2547	32	0
1	PW	2510	0	2547	30	0
1	PX	2510	0	2547	29	0
1	PY	2510	0	2547	37	0
1	PZ	2510	0	2547	31	0
1	Pa	2510	0	2547	41	0
1	Pb	2510	0	2547	29	0
1	Pc	2510	0	2547	28	0
1	Pd	2510	0	2547	37	0
1	Pe	2510	0	2547	38	0
1	Pf	2510	0	2547	27	0
1	Pg	2510	0	2547	29	0
1	Ph	2510	0	2547	42	0
1	Pi	2510	0	2547	28	0
1	Pj	2510	0	2547	32	0
1	Pk	2510	0	2547	31	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Pl	2510	0	2547	30	0
1	Pm	2510	0	2547	31	0
1	Pn	2510	0	2547	37	0
1	Po	2510	0	2547	29	0
1	Pp	2510	0	2547	36	0
1	Pq	2510	0	2547	27	0
1	Pr	2510	0	2547	27	0
1	Ps	2510	0	2547	34	0
1	Pt	2510	0	2547	38	0
1	Pu	2510	0	2547	32	0
1	Pv	2510	0	2547	36	0
1	Pw	2510	0	2547	50	0
1	Px	2510	0	2547	31	0
1	TI	2488	0	2527	21	0
1	TJ	2510	0	2547	21	0
1	TK	2510	0	2547	21	0
1	TL	2488	0	2527	14	0
1	TM	2510	0	2547	17	0
1	TN	2510	0	2547	22	0
1	TO	2488	0	2527	16	0
1	TP	2510	0	2547	22	0
1	TQ	2510	0	2547	21	0
1	TR	2488	0	2527	20	0
1	TS	2510	0	2547	24	0
1	TT	2510	0	2547	21	0
1	TU	2488	0	2527	18	0
1	TV	2510	0	2547	19	0
1	TW	2510	0	2547	26	0
1	TX	2488	0	2527	16	0
1	TY	2510	0	2547	18	0
1	TZ	2510	0	2547	16	0
1	Ta	2510	0	2547	39	0
1	Tb	2510	0	2547	27	0
1	Tc	2510	0	2547	30	0
1	Td	2510	0	2547	31	0
1	Te	2510	0	2547	31	0
1	Tf	2510	0	2547	33	0
1	Tg	2510	0	2547	33	0
1	Th	2510	0	2547	31	0
1	Ti	2510	0	2547	34	0
1	Tj	2510	0	2547	19	0
1	Tk	2405	0	2453	26	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Tl	2488	0	2527	17	0
1	Tm	2510	0	2547	16	0
1	Tn	2510	0	2547	19	0
1	To	2488	0	2527	13	0
1	Tp	2510	0	2547	19	0
1	Tq	2510	0	2547	20	0
1	Tr	2488	0	2527	17	0
1	Ts	2510	0	2547	30	0
1	Tt	2510	0	2547	20	0
1	Tu	2505	0	2545	27	0
1	Tv	2510	0	2547	13	0
1	Tw	2510	0	2547	25	0
1	Tx	2488	0	2527	26	0
1	Ty	2510	0	2547	20	0
1	Tz	2505	0	2545	27	0
1	UA	2510	0	2547	34	0
1	UB	2383	0	2425	27	0
1	UC	2510	0	2547	33	0
1	UD	2510	0	2547	27	0
1	UE	2510	0	2547	21	0
1	UF	2383	0	2425	27	0
1	UG	2510	0	2547	34	0
1	UH	2510	0	2547	32	0
1	UI	2510	0	2547	36	0
1	UJ	2510	0	2547	37	0
1	UK	2510	0	2547	34	0
1	UL	2510	0	2547	32	0
1	UM	2510	0	2547	26	0
1	UN	2510	0	2547	38	0
1	UO	2510	0	2547	31	0
1	UP	2510	0	2547	42	0
1	UQ	2510	0	2547	27	0
1	UR	2510	0	2547	26	0
1	US	2510	0	2547	39	0
1	UT	2510	0	2547	39	0
1	UU	2510	0	2547	25	0
1	UV	2510	0	2547	31	0
1	UW	2510	0	2547	44	0
1	UX	2510	0	2547	30	0
1	UY	2510	0	2547	30	0
1	UZ	2510	0	2547	33	0
1	Ua	2510	0	2547	28	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Ub	2510	0	2547	31	0
1	Uc	2510	0	2547	33	0
1	Ud	2510	0	2547	32	0
1	Ue	2510	0	2547	36	0
1	Uf	2510	0	2547	33	0
1	Ug	2510	0	2547	29	0
1	Uh	2510	0	2547	33	0
1	Ui	2510	0	2547	36	0
1	Uj	2510	0	2547	32	0
1	Uk	2510	0	2547	36	0
1	Ul	2510	0	2547	43	0
1	Um	2510	0	2547	30	0
2	Bf	1178	0	1163	11	0
2	Bg	1160	0	1142	12	0
2	Bh	1173	0	1158	14	0
2	Bi	1165	0	1147	8	0
2	Bj	1173	0	1158	12	0
2	Bk	1165	0	1147	10	0
2	Bl	1173	0	1158	17	0
2	Bm	1170	0	1152	11	0
2	Bn	1173	0	1158	16	0
2	Bo	1165	0	1147	14	0
2	Bp	1165	0	1147	17	0
2	Bq	1160	0	1142	13	0
2	Br	1173	0	1158	18	0
2	Bs	1288	0	1279	12	0
2	Bt	1173	0	1158	30	0
2	Bu	1161	0	1139	16	0
2	Bv	1165	0	1147	19	0
2	Bw	1161	0	1139	19	0
2	Bx	1198	0	1172	21	0
2	By	1148	0	1123	20	0
2	Bz	1173	0	1158	17	0
2	CA	917	0	912	6	0
2	CB	1198	0	1172	20	0
2	CC	1164	0	1145	13	0
2	CD	1211	0	1188	17	0
2	CE	1194	0	1164	12	0
2	CF	1173	0	1158	20	0
2	CG	1337	0	1324	13	0
2	CH	1165	0	1147	12	0
2	CI	1189	0	1159	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	CJ	1275	0	1263	7	0
2	CK	1288	0	1279	18	0
2	CL	1160	0	1142	16	0
2	CM	1173	0	1158	21	0
2	CN	1165	0	1147	15	0
2	CO	1304	0	1299	17	0
2	CP	1161	0	1139	21	0
2	CQ	1198	0	1172	17	0
2	CR	1148	0	1123	18	0
2	CS	1173	0	1158	16	0
2	CT	1161	0	1139	17	0
2	CU	1198	0	1172	16	0
2	CV	1148	0	1123	12	0
2	CW	1173	0	1158	20	0
2	CX	1161	0	1139	19	0
2	CY	1198	0	1172	19	0
2	CZ	1148	0	1123	18	0
2	Ca	1173	0	1158	16	0
2	Cb	1161	0	1139	26	0
2	Cc	1198	0	1172	19	0
2	Cd	1148	0	1123	20	0
2	Ce	1173	0	1158	19	0
2	Cf	1161	0	1139	21	0
2	Cg	1198	0	1172	25	0
2	Ch	1148	0	1123	17	0
2	Ci	1173	0	1158	14	0
2	GU	1178	0	1163	11	0
2	GV	1160	0	1142	12	0
2	GW	1173	0	1158	13	0
2	GX	1165	0	1147	8	0
2	GY	1173	0	1158	14	0
2	GZ	1165	0	1147	11	0
2	Ga	1173	0	1158	17	0
2	Gb	1170	0	1152	10	0
2	Gc	1173	0	1158	16	0
2	Gd	1165	0	1147	13	0
2	Ge	1165	0	1147	18	0
2	Gf	1160	0	1142	14	0
2	Gg	1173	0	1158	19	0
2	Gh	1288	0	1279	12	0
2	Gi	1173	0	1158	30	0
2	Gj	1161	0	1139	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Gk	1165	0	1147	16	0
2	Gl	1161	0	1139	20	0
2	Gm	1198	0	1172	18	0
2	Gn	1148	0	1123	19	0
2	Go	1173	0	1158	16	0
2	Gp	917	0	912	7	0
2	Gq	1198	0	1172	20	0
2	Gr	1164	0	1145	13	0
2	Gs	1211	0	1188	16	0
2	Gt	1194	0	1164	11	0
2	Gu	1173	0	1158	19	0
2	Gv	1337	0	1324	14	0
2	Gw	1165	0	1147	11	0
2	Gx	1189	0	1159	10	0
2	Gy	1275	0	1263	6	0
2	Gz	1288	0	1279	18	0
2	HA	1160	0	1142	14	0
2	HB	1173	0	1158	22	0
2	HC	1165	0	1147	15	0
2	HD	1304	0	1299	20	0
2	HE	1161	0	1139	20	0
2	HF	1198	0	1172	17	0
2	HG	1148	0	1123	19	0
2	HH	1173	0	1158	16	0
2	HI	1161	0	1139	15	0
2	HJ	1198	0	1172	16	0
2	HK	1148	0	1123	14	0
2	HL	1173	0	1158	20	0
2	HM	1161	0	1139	20	0
2	HN	1198	0	1172	20	0
2	HO	1148	0	1123	19	0
2	HP	1173	0	1158	16	0
2	HQ	1161	0	1139	24	0
2	HR	1198	0	1172	20	0
2	HS	1148	0	1123	19	0
2	HT	1173	0	1158	19	0
2	HU	1161	0	1139	20	0
2	HV	1198	0	1172	25	0
2	HW	1148	0	1123	17	0
2	HX	1173	0	1158	14	0
2	LJ	1178	0	1163	13	0
2	LK	1160	0	1142	14	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	LL	1173	0	1158	13	0
2	LM	1165	0	1147	9	0
2	LN	1173	0	1158	14	0
2	LO	1165	0	1147	11	0
2	LP	1173	0	1158	17	0
2	LQ	1170	0	1152	11	0
2	LR	1173	0	1158	17	0
2	LS	1165	0	1147	13	0
2	LT	1165	0	1147	15	0
2	LU	1160	0	1142	12	0
2	LV	1173	0	1158	19	0
2	LW	1288	0	1279	12	0
2	LX	1173	0	1158	29	0
2	LY	1161	0	1139	16	0
2	LZ	1165	0	1147	17	0
2	La	1161	0	1139	20	0
2	Lb	1198	0	1172	18	0
2	Lc	1148	0	1123	19	0
2	Ld	1173	0	1158	16	0
2	Le	917	0	912	7	0
2	Lf	1198	0	1172	20	0
2	Lg	1164	0	1145	12	0
2	Lh	1211	0	1188	17	0
2	Li	1194	0	1164	12	0
2	Lj	1173	0	1158	20	0
2	Lk	1337	0	1324	14	0
2	Ll	1165	0	1147	12	0
2	Lm	1189	0	1159	11	0
2	Ln	1275	0	1263	9	0
2	Lo	1288	0	1279	17	0
2	Lp	1160	0	1142	14	0
2	Lq	1173	0	1158	22	0
2	Lr	1165	0	1147	16	0
2	Ls	1304	0	1299	19	0
2	Lt	1161	0	1139	18	0
2	Lu	1198	0	1172	16	0
2	Lv	1148	0	1123	18	0
2	Lw	1173	0	1158	16	0
2	Lx	1161	0	1139	17	0
2	Ly	1198	0	1172	15	0
2	Lz	1148	0	1123	14	0
2	MA	1173	0	1158	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	MB	1161	0	1139	18	0
2	MC	1198	0	1172	19	0
2	MD	1148	0	1123	19	0
2	ME	1173	0	1158	15	0
2	MF	1161	0	1139	24	0
2	MG	1198	0	1172	17	0
2	MH	1148	0	1123	21	0
2	MI	1173	0	1158	18	0
2	MJ	1161	0	1139	20	0
2	MK	1198	0	1172	25	0
2	ML	1148	0	1123	17	0
2	MM	1173	0	1158	15	0
2	Py	1178	0	1163	11	0
2	Pz	1160	0	1142	12	0
2	QA	1173	0	1158	14	0
2	QB	1165	0	1147	7	0
2	QC	1173	0	1158	12	0
2	QD	1165	0	1147	13	0
2	QE	1173	0	1158	17	0
2	QF	1170	0	1152	10	0
2	QG	1173	0	1158	18	0
2	QH	1165	0	1147	13	0
2	QI	1165	0	1147	14	0
2	QJ	1160	0	1142	14	0
2	QK	1173	0	1158	19	0
2	QL	1288	0	1279	14	0
2	QM	1173	0	1158	31	0
2	QN	1161	0	1139	15	0
2	QO	1165	0	1147	18	0
2	QP	1161	0	1139	20	0
2	QQ	1198	0	1172	20	0
2	QR	1148	0	1123	20	0
2	QS	1173	0	1158	18	0
2	QT	917	0	912	7	0
2	QU	1198	0	1172	20	0
2	QV	1164	0	1145	13	0
2	QW	1211	0	1188	17	0
2	QX	1194	0	1164	11	0
2	QY	1173	0	1158	20	0
2	QZ	1337	0	1324	15	0
2	Qa	1165	0	1147	11	0
2	Qb	1189	0	1159	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Qc	1275	0	1263	8	0
2	Qd	1288	0	1279	17	0
2	Qe	1160	0	1142	14	0
2	Qf	1173	0	1158	21	0
2	Qg	1165	0	1147	16	0
2	Qh	1304	0	1299	18	0
2	Qi	1161	0	1139	19	0
2	Qj	1198	0	1172	17	0
2	Qk	1148	0	1123	20	0
2	Ql	1173	0	1158	18	0
2	Qm	1161	0	1139	18	0
2	Qn	1198	0	1172	18	0
2	Qo	1148	0	1123	14	0
2	Qp	1173	0	1158	18	0
2	Qq	1161	0	1139	20	0
2	Qr	1198	0	1172	17	0
2	Qs	1148	0	1123	19	0
2	Qt	1173	0	1158	16	0
2	Qu	1161	0	1139	24	0
2	Qv	1198	0	1172	18	0
2	Qw	1148	0	1123	17	0
2	Qx	1173	0	1158	19	0
2	Qy	1161	0	1139	20	0
2	Qz	1198	0	1172	23	0
2	RA	1148	0	1123	18	0
2	RB	1173	0	1158	15	0
2	Un	1178	0	1163	11	0
2	Uo	1160	0	1142	12	0
2	Up	1173	0	1158	14	0
2	Uq	1165	0	1147	9	0
2	Ur	1173	0	1158	13	0
2	Us	1165	0	1147	10	0
2	Ut	1173	0	1158	17	0
2	Uu	1170	0	1152	10	0
2	Uv	1173	0	1158	16	0
2	Uw	1165	0	1147	13	0
2	Ux	1165	0	1147	17	0
2	Uy	1160	0	1142	12	0
2	Uz	1173	0	1158	19	0
2	VA	1288	0	1279	12	0
2	VB	1173	0	1158	29	0
2	VC	1161	0	1139	15	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	VD	1165	0	1147	17	0
2	VE	1161	0	1139	20	0
2	VF	1198	0	1172	19	0
2	VG	1148	0	1123	22	0
2	VH	1173	0	1158	17	0
2	VI	917	0	912	6	0
2	VJ	1198	0	1172	20	0
2	VK	1164	0	1145	14	0
2	VL	1211	0	1188	18	0
2	VM	1194	0	1164	12	0
2	VN	1173	0	1158	20	0
2	VO	1337	0	1324	13	0
2	VP	1165	0	1147	11	0
2	VQ	1189	0	1159	11	0
2	VR	1275	0	1263	7	0
2	VS	1288	0	1279	18	0
2	VT	1160	0	1142	15	0
2	VU	1173	0	1158	22	0
2	VV	1165	0	1147	16	0
2	VW	1304	0	1299	18	0
2	VX	1161	0	1139	21	0
2	VY	1198	0	1172	17	0
2	VZ	1148	0	1123	20	0
2	Va	1173	0	1158	17	0
2	Vb	1161	0	1139	17	0
2	Vc	1198	0	1172	17	0
2	Vd	1148	0	1123	14	0
2	Ve	1173	0	1158	19	0
2	Vf	1161	0	1139	20	0
2	Vg	1198	0	1172	16	0
2	Vh	1148	0	1123	18	0
2	Vi	1173	0	1158	16	0
2	Vj	1161	0	1139	23	0
2	Vk	1198	0	1172	18	0
2	Vl	1148	0	1123	18	0
2	Vm	1173	0	1158	18	0
2	Vn	1161	0	1139	21	0
2	Vo	1198	0	1172	23	0
2	Vp	1148	0	1123	18	0
2	Vq	1173	0	1158	14	0
3	Cj	1252	0	1235	18	0
3	HY	1252	0	1235	17	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	MN	1252	0	1235	18	0
3	RC	1252	0	1235	17	0
3	Vr	1252	0	1235	18	0
4	Ck	1195	0	1189	14	0
4	Cl	1195	0	1189	17	0
4	Cm	1203	0	1190	13	0
4	Cn	1197	0	1185	18	0
4	Co	1222	0	1214	20	0
4	Cp	1191	0	1181	21	0
4	Cq	1358	0	1361	24	0
4	Cr	1358	0	1361	18	0
4	Cs	1358	0	1361	25	0
4	Ct	1137	0	1125	12	0
4	Cu	1187	0	1176	15	0
4	Cv	1208	0	1203	14	0
4	Cw	1208	0	1203	18	0
4	Cx	1186	0	1176	15	0
4	Cy	1186	0	1176	19	0
4	Cz	1195	0	1189	28	0
4	DA	1358	0	1361	18	0
4	DB	1358	0	1361	15	0
4	DC	1358	0	1361	21	0
4	DD	1358	0	1361	24	0
4	DE	1358	0	1361	21	0
4	DF	1358	0	1361	18	0
4	DG	1358	0	1361	20	0
4	DH	1358	0	1361	21	0
4	DI	1358	0	1361	21	0
4	DJ	1358	0	1361	17	0
4	HZ	1195	0	1189	14	0
4	Ha	1195	0	1189	16	0
4	Hb	1203	0	1190	14	0
4	Hc	1197	0	1185	16	0
4	Hd	1222	0	1214	19	0
4	He	1191	0	1181	21	0
4	Hf	1358	0	1361	24	0
4	Hg	1358	0	1361	19	0
4	Hh	1358	0	1361	22	0
4	Hi	1137	0	1125	12	0
4	Hj	1187	0	1176	16	0
4	Hk	1208	0	1203	12	0
4	Hl	1208	0	1203	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	Hm	1186	0	1176	17	0
4	Hn	1186	0	1176	19	0
4	Ho	1195	0	1189	26	0
4	Hp	1358	0	1361	17	0
4	Hq	1358	0	1361	14	0
4	Hr	1358	0	1361	18	0
4	Hs	1358	0	1361	23	0
4	Ht	1358	0	1361	20	0
4	Hu	1358	0	1361	18	0
4	Hv	1358	0	1361	23	0
4	Hw	1358	0	1361	21	0
4	Hx	1358	0	1361	22	0
4	Hy	1358	0	1361	16	0
4	MO	1195	0	1189	13	0
4	MP	1195	0	1189	16	0
4	MQ	1203	0	1190	13	0
4	MR	1197	0	1185	16	0
4	MS	1222	0	1214	19	0
4	MT	1191	0	1181	20	0
4	MU	1358	0	1361	27	0
4	MV	1358	0	1361	19	0
4	MW	1358	0	1361	23	0
4	MX	1137	0	1125	12	0
4	MY	1187	0	1176	17	0
4	MZ	1208	0	1203	11	0
4	Ma	1208	0	1203	21	0
4	Mb	1186	0	1176	17	0
4	Mc	1186	0	1176	18	0
4	Md	1195	0	1189	26	0
4	Me	1358	0	1361	17	0
4	Mf	1358	0	1361	16	0
4	Mg	1358	0	1361	18	0
4	Mh	1358	0	1361	25	0
4	Mi	1358	0	1361	19	0
4	Mj	1358	0	1361	17	0
4	Mk	1358	0	1361	21	0
4	Ml	1358	0	1361	21	0
4	Mm	1358	0	1361	22	0
4	Mn	1358	0	1361	19	0
4	RD	1195	0	1189	13	0
4	RE	1195	0	1189	17	0
4	RF	1203	0	1190	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	RG	1197	0	1185	15	0
4	RH	1222	0	1214	19	0
4	RI	1191	0	1181	20	0
4	RJ	1358	0	1361	26	0
4	RK	1358	0	1361	18	0
4	RL	1358	0	1361	27	0
4	RM	1137	0	1125	12	0
4	RN	1187	0	1176	16	0
4	RO	1208	0	1203	13	0
4	RP	1208	0	1203	19	0
4	RQ	1186	0	1176	16	0
4	RR	1186	0	1176	19	0
4	RS	1195	0	1189	27	0
4	RT	1358	0	1361	17	0
4	RU	1358	0	1361	17	0
4	RV	1358	0	1361	18	0
4	RW	1358	0	1361	24	0
4	RX	1358	0	1361	20	0
4	RY	1358	0	1361	18	0
4	RZ	1358	0	1361	19	0
4	Ra	1358	0	1361	20	0
4	Rb	1358	0	1361	20	0
4	Rc	1358	0	1361	19	0
4	Vs	1195	0	1189	13	0
4	Vt	1195	0	1189	17	0
4	Vu	1203	0	1190	13	0
4	Vv	1197	0	1185	17	0
4	Vw	1222	0	1214	19	0
4	Vx	1191	0	1181	20	0
4	Vy	1358	0	1361	25	0
4	Vz	1358	0	1361	17	0
4	WA	1358	0	1361	25	0
4	WB	1137	0	1125	12	0
4	WC	1187	0	1176	16	0
4	WD	1208	0	1203	12	0
4	WE	1208	0	1203	19	0
4	WF	1186	0	1176	16	0
4	WG	1186	0	1176	19	0
4	WH	1195	0	1189	28	0
4	WI	1358	0	1361	18	0
4	WJ	1358	0	1361	17	0
4	WK	1358	0	1361	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	WL	1358	0	1361	26	0
4	WM	1358	0	1361	20	0
4	WN	1358	0	1361	19	0
4	WO	1358	0	1361	20	0
4	WP	1358	0	1361	21	0
4	WQ	1358	0	1361	21	0
4	WR	1358	0	1361	18	0
5	DK	266	0	265	1	0
5	DL	315	0	312	1	0
5	DM	315	0	312	1	0
5	DN	315	0	312	0	0
5	DO	315	0	312	1	0
5	DP	315	0	312	1	0
5	DQ	315	0	312	0	0
5	DR	315	0	312	1	0
5	DS	315	0	312	1	0
5	DT	315	0	312	3	0
5	DU	315	0	312	1	0
5	DV	315	0	312	1	0
5	DW	266	0	265	1	0
5	DX	315	0	312	0	0
5	DY	315	0	312	0	0
5	DZ	315	0	312	2	0
5	Da	315	0	312	0	0
5	Db	315	0	312	1	0
5	Dc	315	0	312	1	0
5	Dd	266	0	265	0	0
5	De	315	0	312	2	0
5	Df	233	0	229	0	0
5	Dg	233	0	229	2	0
5	Dh	266	0	265	2	0
5	Di	266	0	265	0	0
5	Dj	266	0	265	1	0
5	Dk	266	0	265	0	0
5	Dl	315	0	312	1	0
5	Dm	255	0	256	0	0
5	Dn	315	0	312	2	0
5	Do	315	0	312	1	0
5	Dp	315	0	312	0	0
5	Dq	315	0	312	2	0
5	Dr	315	0	312	1	0
5	Ds	315	0	312	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Dt	315	0	312	0	0
5	Du	315	0	312	2	0
5	Dv	315	0	312	0	0
5	Dw	248	0	248	1	0
5	Dx	315	0	312	1	0
5	Dy	315	0	312	0	0
5	Dz	315	0	312	0	0
5	EA	233	0	229	0	0
5	EB	255	0	256	2	0
5	EC	315	0	312	2	0
5	ED	255	0	256	1	0
5	EE	315	0	312	2	0
5	EF	233	0	229	0	0
5	EG	315	0	312	0	0
5	EH	255	0	256	3	0
5	EI	266	0	265	1	0
5	EJ	266	0	265	2	0
5	EK	266	0	265	1	0
5	EL	345	0	345	1	0
5	EM	315	0	312	2	0
5	EN	315	0	312	0	0
5	EO	345	0	345	0	0
5	EP	315	0	312	1	0
5	EQ	315	0	312	3	0
5	ER	345	0	345	0	0
5	ES	315	0	312	3	0
5	ET	233	0	229	1	0
5	EU	345	0	345	0	0
5	EV	315	0	312	1	0
5	EW	315	0	312	1	0
5	EX	315	0	312	2	0
5	EY	345	0	345	0	0
5	EZ	315	0	312	0	0
5	Ea	345	0	345	0	0
5	Eb	315	0	312	0	0
5	Ec	315	0	312	1	0
5	Ed	263	0	262	0	0
5	Ee	315	0	312	1	0
5	Ef	315	0	312	3	0
5	Eg	263	0	262	0	0
5	Eh	233	0	229	3	0
5	Ei	315	0	312	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Ej	345	0	345	0	0
5	Ek	315	0	312	0	0
5	El	315	0	312	4	0
5	Em	233	0	229	2	0
5	En	345	0	345	0	0
5	Eo	315	0	312	2	0
5	Hz	266	0	265	1	0
5	IA	315	0	312	1	0
5	IB	315	0	312	1	0
5	IC	315	0	312	0	0
5	ID	315	0	312	1	0
5	IE	315	0	312	1	0
5	IF	315	0	312	0	0
5	IG	315	0	312	1	0
5	IH	315	0	312	1	0
5	II	315	0	312	3	0
5	IJ	315	0	312	1	0
5	IK	315	0	312	2	0
5	IL	266	0	265	2	0
5	IM	315	0	312	0	0
5	IN	315	0	312	0	0
5	IO	315	0	312	2	0
5	IP	315	0	312	0	0
5	IQ	315	0	312	1	0
5	IR	315	0	312	1	0
5	IS	266	0	265	0	0
5	IT	315	0	312	2	0
5	IU	315	0	312	2	0
5	IV	315	0	312	1	0
5	IW	266	0	265	2	0
5	IX	266	0	265	1	0
5	IY	266	0	265	2	0
5	IZ	266	0	265	0	0
5	Ia	315	0	312	1	0
5	Ib	255	0	256	0	0
5	Ic	315	0	312	2	0
5	Id	315	0	312	1	0
5	Ie	315	0	312	0	0
5	If	315	0	312	1	0
5	Ig	315	0	312	1	0
5	Ih	315	0	312	1	0
5	Ii	315	0	312	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Ij	315	0	312	2	0
5	Ik	315	0	312	0	0
5	Il	248	0	248	1	0
5	Im	315	0	312	0	0
5	In	315	0	312	0	0
5	Io	315	0	312	0	0
5	Ip	233	0	229	0	0
5	Iq	255	0	256	2	0
5	Ir	315	0	310	8	0
5	Is	255	0	256	1	0
5	It	315	0	312	2	0
5	Iu	315	0	312	0	0
5	Iv	315	0	312	0	0
5	Iw	255	0	256	3	0
5	Ix	266	0	265	1	0
5	Iy	266	0	265	2	0
5	Iz	266	0	265	2	0
5	JA	345	0	345	1	0
5	JB	315	0	312	1	0
5	JC	315	0	312	0	0
5	JD	345	0	345	0	0
5	JE	315	0	310	1	0
5	JF	315	0	312	3	0
5	JG	345	0	345	0	0
5	JH	315	0	312	2	0
5	JI	315	0	312	1	0
5	JJ	345	0	345	0	0
5	JK	233	0	229	0	0
5	JL	315	0	312	1	0
5	JM	315	0	312	3	0
5	JN	345	0	345	1	0
5	JO	315	0	312	1	0
5	JP	345	0	345	1	0
5	JQ	315	0	312	0	0
5	JR	315	0	312	1	0
5	JS	345	0	345	1	0
5	JT	315	0	312	1	0
5	JU	315	0	312	3	0
5	JV	345	0	345	0	0
5	JW	315	0	312	3	0
5	JX	315	0	312	1	0
5	JY	345	0	345	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	JZ	315	0	312	0	0
5	Ja	315	0	312	4	0
5	Jb	315	0	310	2	0
5	Jc	345	0	345	1	0
5	Jd	315	0	312	2	0
5	Mo	266	0	265	1	0
5	Mp	315	0	312	1	0
5	Mq	315	0	312	1	0
5	Mr	315	0	312	0	0
5	Ms	315	0	312	1	0
5	Mt	315	0	312	1	0
5	Mu	315	0	312	0	0
5	Mv	315	0	312	1	0
5	Mw	315	0	312	1	0
5	Mx	315	0	312	2	0
5	My	315	0	312	1	0
5	Mz	315	0	312	1	0
5	NA	266	0	265	2	0
5	NB	315	0	312	0	0
5	NC	315	0	312	0	0
5	ND	315	0	312	2	0
5	NE	315	0	312	0	0
5	NF	315	0	312	1	0
5	NG	315	0	312	1	0
5	NH	266	0	265	0	0
5	NI	315	0	312	2	0
5	NJ	315	0	312	0	0
5	NK	315	0	312	1	0
5	NL	266	0	265	2	0
5	NM	266	0	265	0	0
5	NN	266	0	265	2	0
5	NO	266	0	265	0	0
5	NP	315	0	312	1	0
5	NQ	255	0	256	1	0
5	NR	315	0	312	3	0
5	NS	315	0	312	0	0
5	NT	315	0	312	0	0
5	NU	315	0	312	1	0
5	NV	315	0	312	1	0
5	NW	315	0	312	1	0
5	NX	315	0	312	0	0
5	NY	315	0	312	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	NZ	315	0	312	0	0
5	Na	248	0	248	1	0
5	Nb	315	0	312	0	0
5	Nc	315	0	312	0	0
5	Nd	315	0	312	0	0
5	Ne	315	0	312	0	0
5	Nf	255	0	256	2	0
5	Ng	315	0	312	0	0
5	Nh	255	0	256	0	0
5	Ni	315	0	312	2	0
5	Nj	315	0	312	0	0
5	Nk	315	0	312	0	0
5	Nl	255	0	256	3	0
5	Nm	266	0	265	1	0
5	Nn	266	0	265	2	0
5	No	266	0	265	2	0
5	Np	345	0	345	1	0
5	Nq	315	0	312	1	0
5	Nr	315	0	312	0	0
5	Ns	345	0	345	0	0
5	Nt	315	0	312	1	0
5	Nu	315	0	312	3	0
5	Nv	345	0	345	0	0
5	Nw	315	0	312	2	0
5	Nx	315	0	312	0	0
5	Ny	345	0	345	0	0
5	Nz	315	0	312	0	0
5	OA	233	0	229	1	0
5	OB	315	0	312	3	0
5	OC	345	0	345	1	0
5	OD	315	0	312	0	0
5	OE	345	0	345	5	0
5	OF	315	0	312	0	0
5	OG	315	0	312	1	0
5	OH	345	0	345	0	0
5	OI	315	0	312	2	0
5	OJ	233	0	229	2	0
5	OK	345	0	345	0	0
5	OL	315	0	312	2	0
5	OM	315	0	312	0	0
5	ON	263	0	262	0	0
5	OO	315	0	312	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	OP	315	0	312	4	0
5	OQ	315	0	312	3	0
5	OR	345	0	345	1	0
5	OS	315	0	312	2	0
5	Rd	266	0	265	1	0
5	Re	315	0	312	1	0
5	Rf	315	0	312	1	0
5	Rg	315	0	312	0	0
5	Rh	315	0	312	1	0
5	Ri	315	0	312	1	0
5	Rj	315	0	312	2	0
5	Rk	315	0	312	1	0
5	Rl	315	0	312	1	0
5	Rm	315	0	312	2	0
5	Rn	315	0	312	1	0
5	Ro	315	0	312	1	0
5	Rp	266	0	265	2	0
5	Rq	315	0	312	0	0
5	Rr	315	0	312	0	0
5	Rs	315	0	312	2	0
5	Rt	315	0	312	0	0
5	Ru	315	0	312	1	0
5	Rv	315	0	312	6	0
5	Rw	266	0	265	0	0
5	Rx	315	0	312	2	0
5	Ry	315	0	312	0	0
5	Rz	315	0	312	1	0
5	SA	266	0	265	2	0
5	SB	266	0	265	0	0
5	SC	266	0	265	2	0
5	SD	266	0	265	0	0
5	SE	315	0	312	0	0
5	SF	255	0	256	0	0
5	SG	315	0	312	3	0
5	SH	315	0	312	1	0
5	SI	315	0	312	0	0
5	SJ	315	0	312	1	0
5	SK	315	0	312	1	0
5	SL	315	0	312	0	0
5	SM	315	0	312	0	0
5	SN	315	0	312	2	0
5	SO	315	0	312	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	SP	248	0	248	1	0
5	SQ	315	0	312	0	0
5	SR	315	0	312	0	0
5	SS	315	0	312	0	0
5	ST	315	0	312	0	0
5	SU	255	0	256	2	0
5	SV	315	0	312	1	0
5	SW	255	0	256	1	0
5	SX	315	0	312	1	0
5	SY	233	0	229	0	0
5	SZ	315	0	312	0	0
5	Sa	255	0	256	3	0
5	Sb	266	0	265	1	0
5	Sc	266	0	265	1	0
5	Sd	266	0	265	2	0
5	Se	345	0	345	1	0
5	Sf	315	0	312	2	0
5	Sg	315	0	312	0	0
5	Sh	345	0	345	0	0
5	Si	315	0	312	1	0
5	Sj	315	0	312	3	0
5	Sk	345	0	345	0	0
5	Sl	233	0	229	3	0
5	Sm	315	0	312	1	0
5	Sn	345	0	345	0	0
5	So	315	0	312	0	0
5	Sp	315	0	312	1	0
5	Sq	315	0	312	3	0
5	Sr	345	0	345	1	0
5	Ss	315	0	312	1	0
5	St	345	0	345	0	0
5	Su	315	0	312	0	0
5	Sv	315	0	312	1	0
5	Sw	345	0	345	1	0
5	Sx	315	0	312	2	0
5	Sy	315	0	312	3	0
5	Sz	345	0	345	0	0
5	TA	315	0	312	2	0
5	TB	315	0	312	0	0
5	TC	263	0	262	0	0
5	TD	315	0	312	0	0
5	TE	315	0	312	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	TF	315	0	312	3	0
5	TG	345	0	345	4	0
5	TH	315	0	312	2	0
5	WS	266	0	265	1	0
5	WT	315	0	312	1	0
5	WU	315	0	312	1	0
5	WV	315	0	312	0	0
5	WW	315	0	312	1	0
5	WX	315	0	312	1	0
5	WY	315	0	312	1	0
5	WZ	315	0	312	1	0
5	Wa	315	0	312	1	0
5	Wb	315	0	312	3	0
5	Wc	315	0	312	1	0
5	Wd	233	0	229	1	0
5	We	266	0	265	1	0
5	Wf	315	0	312	2	0
5	Wg	315	0	312	0	0
5	Wh	315	0	312	2	0
5	Wi	315	0	312	0	0
5	Wj	315	0	312	1	0
5	Wk	315	0	312	1	0
5	Wl	266	0	265	0	0
5	Wm	315	0	312	2	0
5	Wn	315	0	312	0	0
5	Wo	315	0	312	2	0
5	Wp	266	0	265	2	0
5	Wq	266	0	265	0	0
5	Wr	266	0	265	1	0
5	Ws	266	0	265	0	0
5	Wt	315	0	312	0	0
5	Wu	255	0	256	0	0
5	Wv	315	0	312	3	0
5	Ww	315	0	312	1	0
5	Wx	315	0	312	0	0
5	Wy	315	0	312	0	0
5	Wz	315	0	312	1	0
5	XA	315	0	312	1	0
5	XB	315	0	312	0	0
5	XC	315	0	312	2	0
5	XD	315	0	312	0	0
5	XE	248	0	248	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	XF	315	0	312	0	0
5	XG	315	0	312	0	0
5	XH	315	0	312	0	0
5	XI	315	0	312	0	0
5	XJ	255	0	256	2	0
5	XK	315	0	312	1	0
5	XL	255	0	256	1	0
5	XM	315	0	312	2	0
5	XN	315	0	312	0	0
5	XO	315	0	312	0	0
5	XP	255	0	256	3	0
5	XQ	266	0	265	1	0
5	XR	266	0	265	2	0
5	XS	266	0	265	2	0
5	XT	345	0	345	1	0
5	XU	233	0	229	2	0
5	XV	315	0	312	0	0
5	XW	345	0	345	0	0
5	XX	315	0	312	1	0
5	XY	315	0	312	3	0
5	XZ	345	0	345	0	0
5	Xa	315	0	312	3	0
5	Xb	315	0	312	1	0
5	Xc	345	0	345	0	0
5	Xd	315	0	312	0	0
5	Xe	315	0	312	1	0
5	Xf	315	0	312	2	0
5	Xg	263	0	262	0	0
5	Xh	315	0	312	2	0
5	Xi	345	0	345	2	0
5	Xj	315	0	312	0	0
5	Xk	315	0	312	1	0
5	Xl	345	0	345	1	0
5	Xm	315	0	312	1	0
5	Xn	315	0	312	3	0
5	Xo	345	0	345	0	0
5	Xp	315	0	312	3	0
5	Xq	315	0	312	0	0
5	Xr	345	0	345	0	0
5	Xs	315	0	312	0	0
5	Xt	315	0	312	4	0
5	Xu	315	0	312	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Xv	345	0	345	0	0
5	Xw	315	0	312	1	0
5	YJ	904	0	967	21	0
5	YK	904	0	967	26	0
5	YL	717	0	773	12	0
5	YM	717	0	773	14	0
5	YN	904	0	967	24	0
5	YO	717	0	773	12	0
5	YP	904	0	967	32	0
5	YQ	904	0	967	46	0
5	YR	904	0	967	39	0
5	YS	717	0	773	17	0
5	YT	904	0	967	29	0
5	YU	904	0	967	32	0
5	YV	904	0	967	26	0
5	YW	790	0	843	23	0
5	YX	904	0	967	28	0
5	YY	790	0	843	27	0
5	YZ	904	0	967	37	0
5	Ya	904	0	967	20	0
5	Yb	790	0	843	20	0
5	Yc	904	0	967	36	0
5	Yd	790	0	843	32	0
5	Ye	904	0	967	41	0
5	Yf	790	0	843	25	0
5	Yg	904	0	967	39	0
5	Yh	904	0	967	20	0
5	Yi	790	0	843	32	0
5	Yj	904	0	967	29	0
5	Yk	904	0	967	17	0
5	Yl	790	0	843	16	0
5	Ym	904	0	967	27	0
5	Yn	790	0	843	21	0
5	Yo	904	0	967	13	0
5	Yp	790	0	843	19	0
5	Yq	904	0	967	26	0
5	Yr	790	0	843	29	0
5	Ys	904	0	967	25	0
5	Yt	790	0	843	19	0
5	Yu	904	0	967	25	0
5	Yv	790	0	843	20	0
5	Yw	904	0	967	23	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Yx	790	0	843	26	0
5	Yy	904	0	967	29	0
5	Yz	790	0	843	15	0
5	ZA	904	0	967	24	0
5	ZB	790	0	843	21	0
5	ZC	904	0	967	26	0
5	ZD	790	0	843	25	0
5	ZE	904	0	967	23	0
5	ZF	790	0	843	20	0
5	ZG	904	0	967	34	0
5	ZH	790	0	843	21	0
5	ZI	904	0	967	31	0
5	ZJ	790	0	843	19	0
5	ZK	904	0	967	20	0
5	ZL	790	0	843	26	0
5	ZM	904	0	967	23	0
5	ZN	790	0	843	17	0
5	ZO	904	0	967	43	0
5	ZP	754	0	795	18	0
5	ZQ	904	0	967	18	0
5	ZR	790	0	843	18	0
5	ZS	904	0	967	25	0
5	ZT	790	0	843	17	0
5	ZU	904	0	967	18	0
5	ZV	790	0	843	15	0
5	ZW	904	0	967	20	0
5	ZX	790	0	843	16	0
5	ZY	904	0	967	25	0
5	ZZ	790	0	843	17	0
5	Za	904	0	967	24	0
5	Zb	790	0	843	17	0
5	Zc	904	0	967	26	0
5	Zd	790	0	843	16	0
5	Ze	904	0	967	20	0
5	Zf	790	0	843	16	0
5	Zg	904	0	967	18	0
5	Zh	790	0	843	17	0
5	Zi	904	0	967	18	0
5	Zj	790	0	842	19	0
5	Zk	904	0	967	18	0
5	Zl	790	0	843	16	0
5	Zm	904	0	967	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Zn	790	0	843	15	0
5	Zo	904	0	967	22	0
5	Zp	790	0	842	23	0
5	Zq	904	0	967	28	0
5	Zr	790	0	843	15	0
5	Zs	904	0	967	19	0
5	Zt	790	0	843	18	0
5	Zu	904	0	967	19	0
5	Zv	790	0	843	18	0
5	Zw	904	0	967	19	0
5	Zx	790	0	843	17	0
5	Zy	904	0	967	18	0
5	Zz	790	0	843	17	0
5	aA	904	0	967	17	0
5	aB	790	0	843	16	0
5	aC	904	0	967	18	0
5	aD	790	0	843	15	0
5	aE	904	0	967	18	0
5	aF	790	0	843	16	0
5	aG	904	0	967	18	0
5	aH	790	0	843	16	0
5	aI	904	0	967	17	0
5	aJ	790	0	843	14	0
5	aK	904	0	967	18	0
5	aL	790	0	843	14	0
5	aM	904	0	967	19	0
5	aN	790	0	843	16	0
5	aO	904	0	967	20	0
5	aP	790	0	843	16	0
5	aQ	904	0	967	19	0
5	aR	790	0	843	15	0
5	aS	904	0	967	20	0
5	aT	790	0	843	15	0
5	aU	904	0	967	19	0
5	aV	790	0	843	15	0
5	aW	904	0	967	20	0
5	aX	790	0	843	16	0
5	aY	904	0	967	18	0
5	aZ	790	0	843	15	0
5	aa	904	0	967	18	0
5	ab	790	0	843	15	0
5	ac	904	0	967	15	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	ad	790	0	843	15	0
5	ae	904	0	967	19	0
5	af	790	0	843	16	0
5	ag	904	0	967	21	0
5	ah	790	0	843	17	0
5	ai	904	0	967	20	0
5	aj	790	0	843	15	0
5	ak	904	0	967	20	0
5	al	790	0	843	17	0
5	am	904	0	967	20	0
5	an	790	0	843	15	0
5	ao	904	0	967	18	0
5	ap	790	0	843	17	0
5	aq	904	0	967	19	0
5	ar	790	0	843	16	0
5	as	904	0	967	19	0
5	at	790	0	843	15	0
5	au	904	0	967	20	0
5	av	790	0	843	15	0
5	aw	904	0	967	21	0
5	ax	790	0	843	17	0
5	ay	904	0	967	19	0
5	az	790	0	843	14	0
5	bA	904	0	967	19	0
5	bB	790	0	843	15	0
5	bC	904	0	967	19	0
5	bD	790	0	843	16	0
5	bE	904	0	967	18	0
5	bF	790	0	843	15	0
5	bG	904	0	967	17	0
5	bH	790	0	843	15	0
5	bI	904	0	967	20	0
5	bJ	790	0	843	17	0
5	bK	904	0	967	21	0
5	bL	790	0	843	15	0
5	bM	904	0	967	21	0
5	bN	790	0	843	16	0
5	bO	904	0	967	23	0
5	bP	790	0	843	18	0
5	bQ	904	0	967	22	0
5	bR	790	0	843	18	0
5	bS	904	0	967	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	bT	790	0	843	16	0
5	bU	904	0	967	19	0
5	bV	790	0	843	17	0
5	bW	904	0	967	22	0
5	bX	790	0	843	17	0
5	bY	904	0	967	19	0
5	bZ	790	0	843	15	0
5	ba	904	0	967	22	0
5	bb	790	0	843	16	0
5	bc	904	0	967	23	0
5	bd	790	0	843	16	0
5	be	904	0	967	22	0
5	bf	790	0	843	16	0
5	bg	904	0	967	21	0
5	bh	790	0	843	17	0
5	bi	904	0	967	20	0
5	bj	790	0	843	16	0
5	bk	904	0	967	22	0
5	bl	790	0	843	18	0
5	bm	904	0	967	21	0
5	bn	790	0	843	17	0
5	bo	904	0	967	20	0
5	bp	790	0	843	17	0
5	bq	904	0	967	20	0
5	br	790	0	843	17	0
5	bs	904	0	967	22	0
5	bt	790	0	843	16	0
5	bu	904	0	967	22	0
5	bv	790	0	843	18	0
5	bw	904	0	967	22	0
5	bx	790	0	843	17	0
5	by	904	0	967	18	0
5	bz	790	0	843	17	0
5	cA	904	0	967	19	0
5	cB	790	0	843	15	0
5	cC	904	0	967	19	0
5	cD	790	0	843	17	0
5	cE	904	0	967	18	0
5	cF	790	0	843	15	0
5	cG	904	0	967	18	0
5	cH	790	0	843	17	0
5	cI	904	0	967	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	cJ	790	0	843	17	0
5	cK	904	0	967	20	0
5	cL	790	0	842	15	0
5	cM	904	0	967	21	0
5	cN	790	0	843	16	0
5	cO	904	0	967	20	0
5	cP	790	0	843	15	0
5	cQ	904	0	967	21	0
5	cR	790	0	843	17	0
5	cS	904	0	967	19	0
5	cT	790	0	843	18	0
5	cU	904	0	967	19	0
5	cV	790	0	843	20	0
5	cW	904	0	967	19	0
5	cX	790	0	843	17	0
5	cY	904	0	967	19	0
5	cZ	790	0	843	17	0
5	ca	904	0	967	20	0
5	cb	790	0	843	15	0
5	cc	904	0	967	19	0
5	cd	790	0	843	15	0
5	ce	904	0	967	19	0
5	cf	790	0	843	18	0
5	cg	904	0	967	19	0
5	ch	790	0	843	15	0
5	ci	904	0	967	18	0
5	cj	790	0	843	16	0
5	ck	904	0	967	22	0
5	cl	790	0	843	16	0
5	cm	904	0	967	20	0
5	cn	790	0	843	16	0
5	co	904	0	967	20	0
5	cp	790	0	843	14	0
5	cq	904	0	967	21	0
5	cr	790	0	843	16	0
5	cs	904	0	967	18	0
5	ct	790	0	843	15	0
5	cu	904	0	967	21	0
5	cv	790	0	843	15	0
5	cw	904	0	967	19	0
5	cx	790	0	843	15	0
5	cy	904	0	967	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	cz	790	0	843	16	0
5	dA	904	0	967	18	0
5	dB	790	0	843	16	0
5	dC	904	0	967	18	0
5	dD	790	0	843	16	0
5	dE	904	0	967	18	0
5	dF	790	0	843	16	0
5	dG	904	0	967	19	0
5	dH	790	0	843	16	0
5	dI	904	0	967	19	0
5	dJ	790	0	843	15	0
5	dK	904	0	967	20	0
5	dL	790	0	843	16	0
5	dM	904	0	967	20	0
5	dN	790	0	843	15	0
5	dO	904	0	967	20	0
5	dP	790	0	843	18	0
5	dQ	904	0	967	20	0
5	dR	790	0	843	17	0
5	dS	904	0	967	20	0
5	dT	790	0	843	15	0
5	dU	904	0	967	22	0
5	dV	790	0	843	16	0
5	dW	904	0	967	21	0
5	dX	790	0	843	17	0
5	dY	904	0	967	19	0
5	dZ	790	0	843	16	0
5	da	904	0	967	20	0
5	db	790	0	843	18	0
5	dc	904	0	967	18	0
5	dd	790	0	843	17	0
5	de	904	0	967	19	0
5	df	790	0	843	17	0
5	dg	904	0	967	28	0
5	dh	790	0	843	18	0
5	di	904	0	967	29	0
5	dj	790	0	843	16	0
5	dk	904	0	967	30	0
5	dl	790	0	843	16	0
5	dm	904	0	967	28	0
5	dn	790	0	843	21	0
5	do	904	0	967	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	dp	790	0	843	17	0
5	dq	904	0	967	28	0
5	dr	790	0	843	16	0
5	ds	904	0	967	33	0
5	dt	790	0	843	17	0
5	du	904	0	967	33	0
5	dv	790	0	843	17	0
5	dw	904	0	967	32	0
5	dx	790	0	843	16	0
5	dy	904	0	967	33	0
5	dz	790	0	843	17	0
5	eA	904	0	967	29	0
5	eB	790	0	843	18	0
5	eC	904	0	967	33	0
5	eD	790	0	843	17	0
5	eE	904	0	967	32	0
5	eF	790	0	843	18	0
5	eG	904	0	967	30	0
5	eH	790	0	843	15	0
5	eI	904	0	967	31	0
5	eJ	790	0	843	18	0
5	eK	904	0	967	27	0
5	eL	790	0	843	16	0
5	eM	904	0	967	27	0
5	eN	790	0	843	18	0
5	eO	904	0	967	25	0
5	eP	790	0	843	21	0
5	eQ	904	0	967	27	0
5	eR	790	0	843	19	0
5	eS	904	0	967	29	0
5	eT	790	0	843	16	0
5	eU	904	0	967	26	0
5	eV	790	0	843	16	0
5	eW	904	0	967	24	0
5	eX	790	0	843	17	0
5	eY	904	0	967	27	0
5	eZ	790	0	843	21	0
5	ea	904	0	967	30	0
5	eb	790	0	843	20	0
5	ec	904	0	967	28	0
5	ed	790	0	843	19	0
5	ee	904	0	967	29	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	ef	790	0	843	19	0
5	eg	904	0	967	29	0
5	eh	790	0	843	19	0
5	ei	904	0	967	29	0
5	ej	790	0	843	18	0
5	ek	904	0	967	28	0
5	el	790	0	843	18	0
5	em	904	0	967	28	0
5	en	790	0	843	18	0
5	eo	904	0	967	30	0
5	ep	790	0	843	20	0
5	eq	904	0	967	27	0
5	er	790	0	843	20	0
5	es	904	0	967	22	0
5	et	790	0	843	16	0
5	eu	904	0	967	20	0
5	ev	790	0	843	21	0
5	ew	904	0	967	19	0
5	ex	790	0	843	17	0
5	ey	904	0	967	19	0
5	ez	790	0	843	17	0
5	fA	904	0	967	19	0
5	fB	790	0	843	16	0
5	fC	904	0	967	19	0
5	fD	790	0	843	17	0
5	fE	904	0	967	20	0
5	fF	790	0	843	16	0
5	fG	904	0	967	19	0
5	fH	790	0	843	18	0
5	fI	904	0	967	20	0
5	fJ	790	0	843	19	0
5	fK	904	0	967	19	0
5	fL	790	0	843	18	0
5	fM	904	0	967	19	0
5	fN	790	0	843	14	0
5	fO	904	0	967	18	0
5	fP	790	0	843	16	0
5	fQ	904	0	967	19	0
5	fR	790	0	843	17	0
5	fS	904	0	967	18	0
5	fT	790	0	843	16	0
5	fU	904	0	967	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	fV	790	0	843	13	0
5	fW	904	0	967	19	0
5	fX	790	0	843	16	0
5	fY	904	0	967	18	0
5	fZ	790	0	843	18	0
5	fa	904	0	967	19	0
5	fb	790	0	843	15	0
5	fc	904	0	967	17	0
5	fd	790	0	843	16	0
5	fe	904	0	967	18	0
5	ff	790	0	843	17	0
5	fg	904	0	967	17	0
5	fh	790	0	843	17	0
5	fi	904	0	967	17	0
5	fj	790	0	843	17	0
5	fk	904	0	967	17	0
5	fl	790	0	843	16	0
5	fm	904	0	967	16	0
5	fn	790	0	843	16	0
5	fo	904	0	967	16	0
5	fp	790	0	843	18	0
5	fq	904	0	967	17	0
5	fr	790	0	843	17	0
5	fs	904	0	967	17	0
5	ft	790	0	843	16	0
5	fu	904	0	967	16	0
5	fv	790	0	843	17	0
5	fw	904	0	967	17	0
5	fx	790	0	843	17	0
5	fy	904	0	967	17	0
5	fz	790	0	843	16	0
5	gA	904	0	967	17	0
5	gB	790	0	843	14	0
5	gC	904	0	967	17	0
5	gD	790	0	843	17	0
6	Xx	2747	0	2752	33	0
6	Xy	2959	0	2961	39	0
6	Xz	2829	0	2837	34	0
6	YA	2765	0	2771	38	0
6	YB	2888	0	2894	38	0
6	YC	2756	0	2760	36	0
6	YD	2789	0	2793	31	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	YE	2830	0	2833	32	0
6	YF	2754	0	2757	25	0
6	YG	2888	0	2894	37	0
6	YH	2894	0	2899	40	0
6	YI	3000	0	2998	41	0
All	All	2049537	0	2082341	21799	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 5.

All (21799) 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:YV:55:ILE:HG21	5:Ym:116:ALA:HB1	1.24	1.15
5:YZ:55:ILE:HD11	5:ZO:116:ALA:HB3	1.20	1.10
5:YZ:55:ILE:CD1	5:ZO:116:ALA:HB3	1.97	0.94
5:Ye:55:ILE:HG21	5:ZA:116:ALA:HB1	1.47	0.94
5:YV:55:ILE:CG2	5:Ym:116:ALA:HB1	1.99	0.92
5:YZ:55:ILE:HG22	5:ZO:108:TYR:HD2	1.38	0.87
5:Yc:62:GLU:HG3	5:ZG:106:LYS:HD3	1.57	0.87
5:Yc:55:ILE:HG12	5:ZG:116:ALA:HB2	1.57	0.86
6:YB:195:GLU:HA	6:YB:199:GLN:HG2	1.57	0.86
5:eA:55:ILE:HG23	5:ei:147:ILE:HG13	1.58	0.86
5:YR:80:ALA:HB3	5:YU:80:ALA:HB3	1.58	0.85
5:YZ:55:ILE:HD11	5:ZO:116:ALA:CB	2.06	0.85
6:Xy:195:GLU:HA	6:Xy:199:GLN:HG2	1.58	0.85
5:Ya:80:ALA:HB1	5:Yb:84:ASN:HB2	1.58	0.85
5:YZ:55:ILE:HG22	5:ZO:108:TYR:CD2	2.11	0.85
5:ZI:55:ILE:HB	5:ZY:116:ALA:HB1	1.59	0.84
5:dw:55:ILE:HG23	5:ee:147:ILE:HG13	1.56	0.84
6:YE:195:GLU:HA	6:YE:199:GLN:HG2	1.60	0.83
6:YI:195:GLU:HA	6:YI:199:GLN:HG2	1.60	0.83
5:Yc:55:ILE:HD13	5:ZG:112:ASP:OD2	1.78	0.83
5:Ir:193:ASN:HB2	5:Zp:95:SER:OG	1.79	0.83
5:dq:55:ILE:HB	5:eY:147:ILE:HD11	1.60	0.82
5:Yc:58:ARG:HB3	5:ZG:108:TYR:OH	1.80	0.82
5:eE:55:ILE:HG23	5:em:147:ILE:HG13	1.59	0.82
5:YV:59:ILE:HG13	5:Ym:98:PHE:CE2	2.15	0.81
1:Jm:48:LYS:HZ2	2:QK:33:SER:N	1.79	0.80
2:Br:33:SER:N	1:TQ:48:LYS:HZ2	1.80	0.80
1:Ex:48:LYS:NZ	2:LV:31:LEU:O	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Vi:57:ASP:OD1	2:Vi:115:ASN:ND2	2.15	0.80
1:Jm:48:LYS:NZ	2:QK:31:LEU:O	2.15	0.80
2:Qt:57:ASP:OD1	2:Qt:115:ASN:ND2	2.15	0.80
1:AI:48:LYS:HZ2	2:Gg:33:SER:N	1.80	0.80
1:Fn:150:ARG:NH1	2:HE:85:GLU:OE1	2.16	0.79
1:PR:150:ARG:NH1	2:Qi:85:GLU:OE1	2.16	0.79
1:Ay:150:ARG:NH1	2:CP:85:GLU:OE1	2.16	0.79
1:Kc:150:ARG:NH1	2:Lt:85:GLU:OE1	2.16	0.79
1:UG:150:ARG:NH1	2:VX:85:GLU:OE1	2.16	0.79
5:Ir:191:ASP:OD1	5:Zp:96:ASN:ND2	2.15	0.79
1:AI:48:LYS:NZ	2:Gg:31:LEU:O	2.15	0.79
2:HP:57:ASP:OD1	2:HP:115:ASN:ND2	2.15	0.79
2:ME:57:ASP:OD1	2:ME:115:ASN:ND2	2.15	0.79
2:Ca:57:ASP:OD1	2:Ca:115:ASN:ND2	2.15	0.79
1:Ob:48:LYS:NZ	2:Uz:31:LEU:O	2.15	0.78
1:Ob:48:LYS:HZ2	2:Uz:33:SER:N	1.82	0.77
1:AS:192:GLU:HB3	2:Bz:36:ILE:HD11	1.66	0.77
1:Kl:192:GLU:HB3	2:MA:36:ILE:HD11	1.67	0.77
1:Ex:48:LYS:HZ2	2:LV:33:SER:N	1.82	0.77
5:TG:193:ASN:HD22	5:dn:106:LYS:HD3	1.47	0.77
1:Ta:192:GLU:HB3	2:VH:36:ILE:HD11	1.66	0.77
1:BO:164:GLN:HE22	1:BO:308:ARG:HA	1.50	0.77
4:Cy:32:LEU:HA	1:FX:48:LYS:HZ2	1.49	0.77
1:FH:192:GLU:HB3	2:Go:36:ILE:HD11	1.66	0.77
4:Hn:32:LEU:HA	1:KM:48:LYS:HZ2	1.49	0.77
2:QV:63:PRO:HB2	2:QV:85:GLU:HG2	1.67	0.77
6:YD:272:ALA:HB2	6:YH:198:VAL:HG21	1.66	0.77
5:eK:55:ILE:HG23	5:eM:147:ILE:HG13	1.65	0.77
1:UP:192:GLU:HB3	2:Ve:36:ILE:HD11	1.67	0.77
2:Lg:63:PRO:HB2	2:Lg:85:GLU:HG2	1.67	0.77
1:Ol:192:GLU:HB3	2:QS:36:ILE:HD11	1.66	0.77
2:Br:31:LEU:O	1:TQ:48:LYS:NZ	2.15	0.77
5:ZE:55:ILE:HB	5:Zc:116:ALA:HB1	1.67	0.77
6:Xz:198:VAL:HG21	6:YA:272:ALA:HB2	1.67	0.76
1:BH:192:GLU:HB3	2:CW:36:ILE:HD11	1.67	0.76
2:VK:63:PRO:HB2	2:VK:85:GLU:HG2	1.67	0.76
1:GD:164:GLN:HE22	1:GD:308:ARG:HA	1.50	0.76
2:QG:63:PRO:HB2	2:QG:85:GLU:HG2	1.68	0.76
4:RR:32:LEU:HA	1:Tq:48:LYS:HZ2	1.49	0.76
1:Ai:48:LYS:HZ2	4:WG:32:LEU:HA	1.49	0.76
2:Bn:63:PRO:HB2	2:Bn:85:GLU:HG2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jw:192:GLU:HB3	2:Ld:36:ILE:HD11	1.66	0.76
4:Vy:77:ILE:HG13	4:Vy:91:PRO:HB3	1.68	0.76
1:Fy:143:LYS:HA	4:Ht:39:ARG:HE	1.51	0.76
2:Gc:63:PRO:HB2	2:Gc:85:GLU:HG2	1.68	0.76
1:UW:164:GLN:HE22	1:UW:308:ARG:HA	1.50	0.76
5:YU:103:LEU:HD12	5:YU:113:ILE:HG23	1.68	0.76
1:BT:80:ASN:ND2	1:BT:153:PRO:O	2.20	0.75
4:Cq:77:ILE:HG13	4:Cq:91:PRO:HB3	1.68	0.75
4:Hf:77:ILE:HG13	4:Hf:91:PRO:HB3	1.68	0.75
1:Pa:192:GLU:HB3	2:Qp:36:ILE:HD11	1.67	0.75
1:Pj:164:GLN:HE22	1:Pj:308:ARG:HA	1.51	0.75
2:Uv:63:PRO:HB2	2:Uv:85:GLU:HG2	1.68	0.75
2:LR:63:PRO:HB2	2:LR:85:GLU:HG2	1.68	0.75
2:Gr:63:PRO:HB2	2:Gr:85:GLU:HG2	1.67	0.75
1:Kx:80:ASN:ND2	1:Kx:153:PRO:O	2.20	0.75
4:RJ:77:ILE:HG13	4:RJ:91:PRO:HB3	1.68	0.75
1:Fh:164:GLN:HE22	1:Fh:308:ARG:HA	1.52	0.75
1:Fw:192:GLU:HB3	2:HL:36:ILE:HD11	1.67	0.75
4:MU:77:ILE:HG13	4:MU:91:PRO:HB3	1.68	0.75
2:CC:63:PRO:HB2	2:CC:85:GLU:HG2	1.67	0.75
1:Ph:164:GLN:HE22	1:Ph:308:ARG:HA	1.50	0.75
1:BW:192:GLU:HB3	2:Ce:36:ILE:HD11	1.69	0.75
1:Ks:164:GLN:HE22	1:Ks:308:ARG:HA	1.49	0.75
1:BO:192:GLU:HB3	2:Ca:36:ILE:HD11	1.69	0.74
1:BQ:164:GLN:HE22	1:BQ:308:ARG:HA	1.51	0.74
1:Ks:192:GLU:HB3	2:ME:36:ILE:HD11	1.69	0.74
1:Pw:192:GLU:HB3	2:RB:36:ILE:HD11	1.68	0.74
5:ZC:153:SER:HB3	5:ZD:133:ALA:HB1	1.68	0.74
1:Av:164:GLN:HE22	1:Av:308:ARG:HA	1.52	0.74
1:KZ:164:GLN:HE22	1:KZ:308:ARG:HA	1.52	0.74
1:Kn:143:LYS:HA	4:Mi:39:ARG:HE	1.51	0.74
5:YX:83:ILE:HG21	5:YY:81:GLU:HA	1.69	0.74
4:Hs:73:VAL:HG21	4:Hs:117:ILE:HD13	1.70	0.74
1:LH:192:GLU:HB3	2:MM:36:ILE:HD11	1.68	0.74
1:Bd:192:GLU:HB3	2:Ci:36:ILE:HD11	1.68	0.74
1:KW:164:GLN:HE22	1:KW:308:ARG:HA	1.52	0.74
1:Ku:164:GLN:HE22	1:Ku:308:ARG:HA	1.51	0.74
5:Rv:193:ASN:CB	5:ev:97:HIS:ND1	2.50	0.74
1:UW:192:GLU:HB3	2:Vi:36:ILE:HD11	1.69	0.74
1:As:164:GLN:HE22	1:As:308:ARG:HA	1.52	0.74
1:GD:192:GLU:HB3	2:HP:36:ILE:HD11	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GI:80:ASN:ND2	1:GI:153:PRO:O	2.20	0.74
1:Ph:192:GLU:HB3	2:Qt:36:ILE:HD11	1.69	0.74
1:Pp:192:GLU:HB3	2:Qx:36:ILE:HD11	1.69	0.74
5:Yi:153:SER:HB2	5:Yj:133:ALA:HB1	1.69	0.74
1:UA:164:GLN:HE22	1:UA:308:ARG:HA	1.52	0.74
4:WL:73:VAL:HG21	4:WL:117:ILE:HD13	1.70	0.74
5:Ir:193:ASN:CB	5:Zp:95:SER:OG	2.10	0.74
4:Mh:73:VAL:HG21	4:Mh:117:ILE:HD13	1.70	0.74
4:DD:73:VAL:HG21	4:DD:117:ILE:HD13	1.70	0.74
1:LA:192:GLU:HB3	2:MI:36:ILE:HD11	1.69	0.74
4:MW:73:VAL:HG21	4:MW:117:ILE:HD13	1.70	0.74
4:RW:73:VAL:HG21	4:RW:117:ILE:HD13	1.70	0.74
1:AW:39:LEU:HD11	1:AW:81:TYR:HD2	1.53	0.74
1:PL:164:GLN:HE22	1:PL:308:ARG:HA	1.52	0.74
1:Pm:80:ASN:ND2	1:Pm:153:PRO:O	2.20	0.74
5:YU:83:ILE:HD12	5:YU:114:MET:HG3	1.69	0.74
1:Ul:192:GLU:HB3	2:Vq:36:ILE:HD11	1.68	0.74
1:KO:152:LEU:HD21	4:Ma:112:SER:HA	1.70	0.73
1:Ue:192:GLU:HB3	2:Vm:36:ILE:HD11	1.69	0.73
1:FZ:152:LEU:HD21	4:Hl:112:SER:HA	1.69	0.73
1:GL:192:GLU:HB3	2:HT:36:ILE:HD11	1.69	0.73
1:Ub:80:ASN:ND2	1:Ub:153:PRO:O	2.20	0.73
1:GR:261:ILE:HD12	1:GR:312:LEU:HD23	1.71	0.73
1:LA:80:ASN:ND2	1:LA:153:PRO:O	2.17	0.73
4:RL:73:VAL:HG21	4:RL:117:ILE:HD13	1.70	0.73
1:UD:164:GLN:HE22	1:UD:308:ARG:HA	1.52	0.73
1:UY:164:GLN:HE22	1:UY:308:ARG:HA	1.51	0.73
5:Yb:123:ARG:HG3	5:Yb:140:ILE:HD12	1.70	0.73
1:GF:164:GLN:HE22	1:GF:308:ARG:HA	1.51	0.73
4:Hh:73:VAL:HG21	4:Hh:117:ILE:HD13	1.70	0.73
1:Kp:48:LYS:NZ	2:Lx:33:SER:O	2.22	0.73
1:UJ:164:GLN:HE22	1:UJ:308:ARG:HA	1.53	0.73
1:Ue:80:ASN:ND2	1:Ue:153:PRO:O	2.17	0.73
5:Yr:131:ILE:HD13	5:Yr:140:ILE:HD11	1.70	0.73
1:BL:48:LYS:NZ	2:CT:33:SER:O	2.22	0.73
4:Ra:73:VAL:HG21	4:Ra:117:ILE:HD13	1.71	0.73
1:Fk:164:GLN:HE22	1:Fk:308:ARG:HA	1.52	0.73
1:Kx:164:GLN:HE22	1:Kx:308:ARG:HA	1.54	0.73
1:Pv:261:ILE:HD12	1:Pv:312:LEU:HD23	1.70	0.73
5:Rv:193:ASN:HB3	5:ev:97:HIS:ND1	2.04	0.73
2:Vn:77:PHE:HB2	4:WQ:138:LYS:HE2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DB:73:VAL:HG21	4:DB:117:ILE:HD13	1.71	0.73
1:Op:39:LEU:HD11	1:Op:81:TYR:HD2	1.53	0.73
5:ZC:56:ASN:HD21	5:Ze:141:SER:HB3	1.54	0.73
1:FL:39:LEU:HD11	1:FL:81:TYR:HD2	1.53	0.73
4:Hq:73:VAL:HG21	4:Hq:117:ILE:HD13	1.71	0.73
4:Ml:73:VAL:HG21	4:Ml:117:ILE:HD13	1.71	0.73
4:Mm:77:ILE:HG13	4:Mm:91:PRO:HB3	1.71	0.73
1:Pe:48:LYS:NZ	2:Qm:33:SER:O	2.22	0.73
1:Te:39:LEU:HD11	1:Te:81:TYR:HD2	1.53	0.73
4:WP:73:VAL:HG21	4:WP:117:ILE:HD13	1.71	0.73
5:YV:59:ILE:HG13	5:Ym:98:PHE:HE2	1.50	0.73
5:Ye:55:ILE:CG2	5:ZA:116:ALA:HB1	2.19	0.73
5:ee:86:ILE:HD11	5:ee:118:ARG:HE	1.52	0.73
1:Kf:164:GLN:HE22	1:Kf:308:ARG:HA	1.53	0.73
4:WJ:73:VAL:HG21	4:WJ:117:ILE:HD13	1.71	0.73
1:FP:261:ILE:HD12	1:FP:312:LEU:HD23	1.71	0.73
1:GA:48:LYS:NZ	2:HI:33:SER:O	2.22	0.73
4:Rb:77:ILE:HG13	4:Rb:91:PRO:HB3	1.71	0.73
5:eY:86:ILE:HD11	5:eY:118:ARG:HE	1.53	0.73
1:GS:192:GLU:HB3	2:HX:36:ILE:HD11	1.68	0.72
1:PL:80:ASN:ND2	1:PL:153:PRO:O	2.22	0.72
1:PO:164:GLN:HE22	1:PO:308:ARG:HA	1.52	0.72
5:eW:86:ILE:HD11	5:eW:118:ARG:HE	1.53	0.72
4:Hw:73:VAL:HG21	4:Hw:117:ILE:HD13	1.71	0.72
4:Mc:32:LEU:HA	1:PB:48:LYS:HZ2	1.52	0.72
1:PU:164:GLN:HE22	1:PU:308:ARG:HA	1.53	0.72
4:WA:73:VAL:HG21	4:WA:117:ILE:HD13	1.70	0.72
5:Yw:135:ALA:HB2	5:Yw:151:LEU:HD11	1.70	0.72
5:ZH:84:ASN:ND2	5:ZI:80:ALA:O	2.22	0.72
5:eK:147:ILE:HD11	5:eM:55:ILE:HG12	1.72	0.72
1:Bc:261:ILE:HD12	1:Bc:312:LEU:HD23	1.71	0.72
1:Uk:261:ILE:HD12	1:Uk:312:LEU:HD23	1.71	0.72
1:Fq:164:GLN:HE22	1:Fq:308:ARG:HA	1.53	0.72
1:GI:164:GLN:HE22	1:GI:308:ARG:HA	1.54	0.72
1:UT:48:LYS:NZ	2:Vb:33:SER:O	2.22	0.72
1:KA:39:LEU:HD11	1:KA:81:TYR:HD2	1.53	0.72
1:UY:80:ASN:ND2	1:UY:153:PRO:O	2.21	0.72
1:Ak:152:LEU:HD21	4:Cw:112:SER:HA	1.70	0.72
4:Hx:77:ILE:HG13	4:Hx:91:PRO:HB3	1.71	0.72
4:RU:73:VAL:HG21	4:RU:117:ILE:HD13	1.71	0.72
1:Ti:261:ILE:HD12	1:Ti:312:LEU:HD23	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:164:GLN:HE22	1:BB:308:ARG:HA	1.53	0.72
5:YR:59:ILE:HG23	5:Yj:147:ILE:HG13	1.71	0.72
1:BT:164:GLN:HE22	1:BT:308:ARG:HA	1.54	0.72
4:DH:73:VAL:HG21	4:DH:117:ILE:HD13	1.71	0.72
1:KE:261:ILE:HD12	1:KE:312:LEU:HD23	1.71	0.72
1:KW:80:ASN:ND2	1:KW:153:PRO:O	2.22	0.72
4:Mf:73:VAL:HG21	4:Mf:117:ILE:HD13	1.71	0.72
1:Ot:261:ILE:HD12	1:Ot:312:LEU:HD23	1.71	0.72
1:Ub:164:GLN:HE22	1:Ub:308:ARG:HA	1.54	0.72
6:YA:197:LEU:HG	6:YA:256:LEU:HG	1.70	0.72
4:Cs:73:VAL:HG21	4:Cs:117:ILE:HD13	1.70	0.72
1:Ts:152:LEU:HD21	4:WE:112:SER:HA	1.72	0.72
4:WQ:77:ILE:HG13	4:WQ:91:PRO:HB3	1.71	0.72
4:DI:77:ILE:HG13	4:DI:91:PRO:HB3	1.71	0.72
1:BE:80:ASN:ND2	1:BE:153:PRO:O	2.23	0.71
5:YN:59:ILE:HG23	5:Yc:147:ILE:HG22	1.71	0.71
1:Bd:164:GLN:HE22	1:Bd:308:ARG:HA	1.56	0.71
1:Ki:80:ASN:ND2	1:Ki:153:PRO:O	2.23	0.71
5:ei:86:ILE:HD11	5:ei:118:ARG:HE	1.54	0.71
1:GT:48:LYS:NZ	2:HU:33:SER:O	2.24	0.71
1:KB:261:ILE:HD12	1:KB:312:LEU:HD23	1.72	0.71
1:UJ:261:ILE:HD12	1:UJ:312:LEU:HD23	1.72	0.71
1:GL:80:ASN:ND2	1:GL:153:PRO:O	2.17	0.71
1:Oq:261:ILE:HD12	1:Oq:312:LEU:HD23	1.72	0.71
6:Xy:244:ASN:O	6:Xy:248:LEU:HG	1.89	0.71
1:KL:92:LYS:NZ	1:KL:288:ASP:O	2.24	0.71
1:As:80:ASN:ND2	1:As:153:PRO:O	2.22	0.71
5:Dq:193:ASN:ND2	5:Yd:95:SER:OG	2.23	0.71
1:Ku:80:ASN:ND2	1:Ku:153:PRO:O	2.22	0.71
1:PX:80:ASN:ND2	1:PX:153:PRO:O	2.23	0.71
1:UA:80:ASN:ND2	1:UA:153:PRO:O	2.22	0.71
2:Uw:180:ASN:O	2:Ux:180:ASN:ND2	2.24	0.71
4:Vz:73:VAL:HG21	4:Vz:117:ILE:HG12	1.73	0.71
5:YW:123:ARG:HG3	5:YW:140:ILE:HD12	1.71	0.71
1:AX:261:ILE:HD12	1:AX:312:LEU:HD23	1.72	0.71
1:BW:80:ASN:ND2	1:BW:153:PRO:O	2.17	0.71
1:Fq:261:ILE:HD12	1:Fq:312:LEU:HD23	1.72	0.71
1:LG:261:ILE:HD12	1:LG:312:LEU:HD23	1.71	0.71
1:PA:92:LYS:NZ	1:PA:288:ASP:O	2.24	0.71
1:PU:261:ILE:HD12	1:PU:312:LEU:HD23	1.72	0.71
1:Po:80:ASN:ND2	1:Po:153:PRO:O	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UD:261:ILE:HD12	1:UD:312:LEU:HD23	1.73	0.71
2:Qy:77:PHE:HB2	4:Rb:138:LYS:HE2	1.73	0.71
1:An:79:LEU:HD11	1:An:305:LEU:HB2	1.73	0.71
1:Be:48:LYS:NZ	2:Cf:33:SER:O	2.24	0.71
1:Fh:80:ASN:ND2	1:Fh:153:PRO:O	2.22	0.71
1:GF:80:ASN:ND2	1:GF:153:PRO:O	2.22	0.71
1:Pm:164:GLN:HE22	1:Pm:308:ARG:HA	1.54	0.71
1:Px:48:LYS:NZ	2:Qy:33:SER:O	2.24	0.71
1:Tb:164:GLN:HE22	1:Tb:308:ARG:HA	1.56	0.71
5:YQ:57:GLU:OE1	5:Yf:146:GLU:N	2.24	0.71
5:eZ:123:ARG:HG3	5:eZ:140:ILE:HD12	1.73	0.71
4:Cr:73:VAL:HG21	4:Cr:117:ILE:HG12	1.73	0.71
1:GP:48:LYS:NZ	2:HQ:33:SER:O	2.24	0.71
1:KZ:261:ILE:HD12	1:KZ:312:LEU:HD23	1.73	0.71
1:Tv:79:LEU:HD11	1:Tv:305:LEU:HB2	1.73	0.71
1:AD:210:SER:HB3	1:AG:244:ARG:HH12	1.56	0.70
4:Hg:73:VAL:HG21	4:Hg:117:ILE:HG12	1.73	0.70
1:KR:79:LEU:HD11	1:KR:305:LEU:HB2	1.73	0.70
1:Ki:164:GLN:HE22	1:Ki:308:ARG:HA	1.56	0.70
1:PD:152:LEU:HD21	4:RP:112:SER:HA	1.72	0.70
1:PG:79:LEU:HD11	1:PG:305:LEU:HB2	1.73	0.70
1:PO:261:ILE:HD12	1:PO:312:LEU:HD23	1.73	0.70
2:QH:180:ASN:O	2:QI:180:ASN:ND2	2.24	0.70
1:UM:80:ASN:ND2	1:UM:153:PRO:O	2.23	0.70
1:UM:164:GLN:HE22	1:UM:308:ARG:HA	1.56	0.70
1:Ui:48:LYS:NZ	2:Vj:33:SER:O	2.24	0.70
1:Um:48:LYS:NZ	2:Vn:33:SER:O	2.24	0.70
4:Cy:32:LEU:HD23	1:FX:77:VAL:HG21	1.73	0.70
1:Ft:80:ASN:ND2	1:Ft:153:PRO:O	2.23	0.70
1:LI:48:LYS:NZ	2:MJ:33:SER:O	2.24	0.70
1:Ue:164:GLN:HE22	1:Ue:308:ARG:HA	1.57	0.70
5:YY:144:ASP:HA	5:YY:148:LEU:HB2	1.72	0.70
5:eb:123:ARG:HG3	5:eb:140:ILE:HD12	1.73	0.70
1:GT:165:ILE:HD13	1:GT:191:LEU:HD23	1.74	0.70
1:Kf:261:ILE:HD12	1:Kf:312:LEU:HD23	1.72	0.70
1:Kh:143:LYS:HA	4:Mg:39:ARG:HE	1.56	0.70
1:PX:164:GLN:HE22	1:PX:308:ARG:HA	1.56	0.70
1:Tf:261:ILE:HD12	1:Tf:312:LEU:HD23	1.72	0.70
5:eL:123:ARG:HG3	5:eL:140:ILE:HD12	1.73	0.70
1:Aa:261:ILE:HD12	1:Aa:312:LEU:HD23	1.71	0.70
1:Es:210:SER:HB3	1:Ev:244:ARG:HH12	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fk:261:ILE:HD12	1:Fk:312:LEU:HD23	1.73	0.70
1:GS:164:GLN:HE22	1:GS:308:ARG:HA	1.56	0.70
2:Lm:140:ASN:HD21	2:Lm:144:GLU:HB2	1.57	0.70
1:Pp:164:GLN:HE22	1:Pp:308:ARG:HA	1.57	0.70
4:RK:73:VAL:HG21	4:RK:117:ILE:HG12	1.73	0.70
1:Ai:77:VAL:HG21	4:WG:32:LEU:HD23	1.73	0.70
1:BJ:143:LYS:HA	4:DE:39:ARG:HE	1.57	0.70
1:FL:59:THR:O	4:MT:61:ASN:ND2	2.25	0.70
1:FM:261:ILE:HD12	1:FM:312:LEU:HD23	1.72	0.70
1:Jw:80:ASN:ND2	1:Jw:153:PRO:O	2.25	0.70
1:Om:164:GLN:HE22	1:Om:308:ARG:HA	1.56	0.70
1:Op:59:THR:O	4:Vx:61:ASN:ND2	2.25	0.70
1:AT:164:GLN:HE22	1:AT:308:ARG:HA	1.56	0.70
1:Av:261:ILE:HD12	1:Av:312:LEU:HD23	1.73	0.70
2:Bo:180:ASN:O	2:Bp:180:ASN:ND2	2.24	0.70
4:Cp:61:ASN:ND2	1:Te:59:THR:O	2.25	0.70
2:Gd:180:ASN:O	2:Ge:180:ASN:ND2	2.24	0.70
1:Kz:80:ASN:ND2	1:Kz:153:PRO:O	2.24	0.70
1:LA:164:GLN:HE22	1:LA:308:ARG:HA	1.57	0.70
1:Ul:164:GLN:HE22	1:Ul:308:ARG:HA	1.56	0.70
5:Zz:123:ARG:HG3	5:Zz:140:ILE:HD12	1.74	0.70
5:dh:123:ARG:HG3	5:dh:140:ILE:HD12	1.74	0.70
5:ec:86:ILE:HD11	5:ec:118:ARG:HE	1.55	0.70
5:fB:123:ARG:HG3	5:fB:140:ILE:HD12	1.73	0.70
5:fJ:123:ARG:HG3	5:fJ:140:ILE:HD12	1.74	0.70
1:Be:165:ILE:HD13	1:Be:191:LEU:HD23	1.73	0.70
1:FW:92:LYS:NZ	1:FW:288:ASP:O	2.24	0.70
1:Kx:77:VAL:HG21	2:MK:32:LEU:HD23	1.74	0.70
1:LE:48:LYS:NZ	2:MF:33:SER:O	2.24	0.70
1:LH:80:ASN:ND2	1:LH:153:PRO:O	2.21	0.70
1:Pt:48:LYS:NZ	2:Qu:33:SER:O	2.24	0.70
5:aB:123:ARG:HG3	5:aB:140:ILE:HD12	1.74	0.70
5:ah:123:ARG:HG3	5:ah:140:ILE:HD12	1.74	0.70
5:ea:86:ILE:HD11	5:ea:118:ARG:HE	1.54	0.70
5:fh:123:ARG:HG3	5:fh:140:ILE:HD12	1.74	0.70
5:fp:123:ARG:HG3	5:fp:140:ILE:HD12	1.74	0.70
1:Ba:48:LYS:NZ	2:Cb:33:SER:O	2.24	0.70
1:GS:80:ASN:ND2	1:GS:153:PRO:O	2.21	0.70
4:Hn:32:LEU:HD23	1:KM:77:VAL:HG21	1.73	0.70
1:Kt:48:LYS:NZ	2:MB:33:SER:O	2.24	0.70
1:Kt:77:VAL:HG21	2:MB:32:LEU:HD23	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LS:180:ASN:O	2:LT:180:ASN:ND2	2.24	0.70
1:UF:225:SER:HB2	1:UW:224:ALA:HB3	1.73	0.70
5:bF:123:ARG:HG3	5:bF:140:ILE:HD12	1.74	0.70
5:bJ:123:ARG:HG3	5:bJ:140:ILE:HD12	1.74	0.70
1:FH:80:ASN:ND2	1:FH:153:PRO:O	2.25	0.70
1:Fp:164:GLN:HE22	1:Fp:308:ARG:HA	1.57	0.70
1:Ft:164:GLN:HE22	1:Ft:308:ARG:HA	1.56	0.70
1:GL:164:GLN:HE22	1:GL:308:ARG:HA	1.57	0.70
4:MV:73:VAL:HG21	4:MV:117:ILE:HG12	1.73	0.70
5:ZR:123:ARG:HG3	5:ZR:140:ILE:HD12	1.74	0.70
5:aj:123:ARG:HG3	5:aj:140:ILE:HD12	1.74	0.70
5:dF:123:ARG:HG3	5:dF:140:ILE:HD12	1.74	0.70
5:dn:123:ARG:HG3	5:dn:140:ILE:HD12	1.74	0.70
5:eR:123:ARG:HG3	5:eR:140:ILE:HD12	1.73	0.70
5:ez:123:ARG:HG3	5:ez:140:ILE:HD12	1.74	0.70
5:fr:123:ARG:HG3	5:fr:140:ILE:HD12	1.74	0.70
1:AW:59:THR:O	4:He:61:ASN:ND2	2.25	0.70
1:Ah:92:LYS:NZ	1:Ah:288:ASP:O	2.24	0.70
1:Ax:225:SER:HB2	1:BO:224:ALA:HB3	1.73	0.70
1:FN:261:ILE:HD12	1:FN:312:LEU:HD23	1.74	0.70
1:Fc:79:LEU:HD11	1:Fc:305:LEU:HB2	1.73	0.70
1:GI:77:VAL:HG21	2:HV:32:LEU:HD23	1.74	0.70
4:Hm:77:ILE:HG13	4:Hm:91:PRO:HB3	1.74	0.70
4:Me:73:VAL:HG21	4:Me:117:ILE:HG12	1.74	0.70
1:UC:199:THR:HG21	1:UC:265:ASN:HB2	1.74	0.70
5:ZZ:123:ARG:HG3	5:ZZ:140:ILE:HD12	1.74	0.70
5:bp:123:ARG:HG3	5:bp:140:ILE:HD12	1.74	0.70
5:cZ:123:ARG:HG3	5:cZ:140:ILE:HD12	1.74	0.70
5:dp:123:ARG:HG3	5:dp:140:ILE:HD12	1.74	0.70
5:fH:123:ARG:HG3	5:fH:140:ILE:HD12	1.74	0.70
1:AS:80:ASN:ND2	1:AS:153:PRO:O	2.25	0.69
1:BP:48:LYS:NZ	2:CX:33:SER:O	2.24	0.69
1:BT:77:VAL:HG21	2:Cg:32:LEU:HD23	1.74	0.69
1:GE:48:LYS:NZ	2:HM:33:SER:O	2.25	0.69
1:Ke:164:GLN:HE22	1:Ke:308:ARG:HA	1.57	0.69
1:Pi:48:LYS:NZ	2:Qq:33:SER:O	2.25	0.69
1:Pm:77:VAL:HG21	2:Qz:32:LEU:HD23	1.74	0.69
5:YV:76:LEU:HD21	5:YW:76:LEU:HD22	1.74	0.69
5:Zx:123:ARG:HG3	5:Zx:140:ILE:HD12	1.74	0.69
5:bR:123:ARG:HG3	5:bR:140:ILE:HD12	1.74	0.69
5:cX:123:ARG:HG3	5:cX:140:ILE:HD12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eh:123:ARG:HG3	5:eh:140:ILE:HD12	1.74	0.69
2:Gx:140:ASN:HD21	2:Gx:144:GLU:HB2	1.57	0.69
1:Kb:225:SER:HB2	1:Ks:224:ALA:HB3	1.73	0.69
1:OW:210:SER:HB3	1:OZ:244:ARG:HH12	1.56	0.69
1:Ol:80:ASN:ND2	1:Ol:153:PRO:O	2.25	0.69
1:UN:165:ILE:HD13	1:UN:191:LEU:HD23	1.74	0.69
5:Zb:123:ARG:HG3	5:Zb:140:ILE:HD12	1.74	0.69
5:bn:123:ARG:HG3	5:bn:140:ILE:HD12	1.74	0.69
5:br:123:ARG:HG3	5:br:140:ILE:HD12	1.74	0.69
5:dD:123:ARG:HG3	5:dD:140:ILE:HD12	1.74	0.69
5:dd:123:ARG:HG3	5:dd:140:ILE:HD12	1.74	0.69
5:eT:123:ARG:HG3	5:eT:140:ILE:HD12	1.74	0.69
5:eX:123:ARG:HG3	5:eX:140:ILE:HD12	1.74	0.69
5:fj:123:ARG:HG3	5:fj:140:ILE:HD12	1.74	0.69
1:Au:199:THR:HG21	1:Au:265:ASN:HB2	1.74	0.69
1:BP:77:VAL:HG21	2:CX:32:LEU:HD23	1.74	0.69
1:PT:164:GLN:HE22	1:PT:308:ARG:HA	1.57	0.69
4:RR:32:LEU:HD23	1:Tq:77:VAL:HG21	1.73	0.69
4:RT:73:VAL:HG21	4:RT:117:ILE:HG12	1.74	0.69
1:UI:164:GLN:HE22	1:UI:308:ARG:HA	1.57	0.69
1:UT:286:ASP:HB2	1:UT:294:HIS:HB2	1.75	0.69
1:UX:77:VAL:HG21	2:Vf:32:LEU:HD23	1.74	0.69
1:Ub:77:VAL:HG21	2:Vo:32:LEU:HD23	1.74	0.69
4:WI:73:VAL:HG21	4:WI:117:ILE:HG12	1.74	0.69
5:YP:84:ASN:HB2	5:YT:84:ASN:CG	2.17	0.69
5:YY:123:ARG:HG3	5:YY:140:ILE:HD12	1.74	0.69
5:ZO:55:ILE:HG22	5:ZS:116:ALA:HB1	1.73	0.69
5:Zv:123:ARG:HG3	5:Zv:140:ILE:HD12	1.74	0.69
5:bP:123:ARG:HG3	5:bP:140:ILE:HD12	1.74	0.69
5:ed:123:ARG:HG3	5:ed:140:ILE:HD12	1.73	0.69
5:ej:123:ARG:HG3	5:ej:140:ILE:HD12	1.74	0.69
1:BF:165:ILE:HD13	1:BF:191:LEU:HD23	1.74	0.69
1:Jx:164:GLN:HE22	1:Jx:308:ARG:HA	1.56	0.69
1:KC:261:ILE:HD12	1:KC:312:LEU:HD23	1.74	0.69
1:Ou:317:LYS:NZ	1:Ou:319:SER:OXT	2.26	0.69
1:Pb:143:LYS:HA	2:Qr:39:ARG:HE	1.58	0.69
1:Ud:80:ASN:ND2	1:Ud:153:PRO:O	2.24	0.69
4:WF:77:ILE:HG13	4:WF:91:PRO:HB3	1.74	0.69
5:aH:123:ARG:HG3	5:aH:140:ILE:HD12	1.74	0.69
5:aZ:123:ARG:HG3	5:aZ:140:ILE:HD12	1.74	0.69
5:bN:123:ARG:HG3	5:bN:140:ILE:HD12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:cV:123:ARG:HG3	5:cV:140:ILE:HD12	1.74	0.69
5:cf:123:ARG:HG3	5:cf:140:ILE:HD12	1.74	0.69
5:dH:123:ARG:HG3	5:dH:140:ILE:HD12	1.74	0.69
5:ef:123:ARG:HG3	5:ef:140:ILE:HD12	1.73	0.69
5:fl:123:ARG:HG3	5:fl:140:ILE:HD12	1.74	0.69
1:AY:261:ILE:HD12	1:AY:312:LEU:HD23	1.74	0.69
1:BB:261:ILE:HD12	1:BB:312:LEU:HD23	1.72	0.69
1:BE:164:GLN:HE22	1:BE:308:ARG:HA	1.56	0.69
1:BG:199:THR:HG21	1:BG:265:ASN:HB2	1.75	0.69
1:BQ:80:ASN:ND2	1:BQ:153:PRO:O	2.22	0.69
4:Cx:77:ILE:HG13	4:Cx:91:PRO:HB3	1.74	0.69
1:Fp:80:ASN:ND2	1:Fp:153:PRO:O	2.21	0.69
1:Jh:210:SER:HB3	1:Jk:244:ARG:HH12	1.56	0.69
1:Kj:165:ILE:HD13	1:Kj:191:LEU:HD23	1.74	0.69
1:Or:261:ILE:HD12	1:Or:312:LEU:HD23	1.74	0.69
1:Ta:80:ASN:ND2	1:Ta:153:PRO:O	2.25	0.69
5:af:123:ARG:HG3	5:af:140:ILE:HD12	1.74	0.69
5:bl:123:ARG:HG3	5:bl:140:ILE:HD12	1.74	0.69
5:fP:123:ARG:HG3	5:fP:140:ILE:HD12	1.74	0.69
1:Ax:22:ASP:OD1	5:EH:213:ARG:NE	2.24	0.69
2:Cf:77:PHE:HB2	4:DI:138:LYS:HE2	1.74	0.69
1:FI:164:GLN:HE22	1:FI:308:ARG:HA	1.56	0.69
1:Fj:199:THR:HG21	1:Fj:265:ASN:HB2	1.74	0.69
5:Ir:193:ASN:OD1	5:Zp:94:LEU:O	2.03	0.69
1:KF:317:LYS:NZ	1:KF:319:SER:OXT	2.25	0.69
1:Ou:65:ASN:ND2	4:WB:57:ASP:O	2.26	0.69
1:PL:192:GLU:HB3	2:Ql:36:ILE:HD11	1.74	0.69
1:PQ:225:SER:HB2	1:Ph:224:ALA:HB3	1.73	0.69
1:UQ:143:LYS:HA	2:Vg:39:ARG:HE	1.57	0.69
5:cx:123:ARG:HG3	5:cx:140:ILE:HD12	1.74	0.69
5:eD:123:ARG:HG3	5:eD:140:ILE:HD12	1.74	0.69
5:eU:86:ILE:HD11	5:eU:118:ARG:HE	1.57	0.69
1:Aa:80:ASN:ND2	1:Aa:153:PRO:O	2.23	0.69
1:BC:261:ILE:HD12	1:BC:312:LEU:HD23	1.75	0.69
1:KA:59:THR:O	4:RI:61:ASN:ND2	2.25	0.69
1:Pi:77:VAL:HG21	2:Qq:32:LEU:HD23	1.74	0.69
5:Rv:193:ASN:HB3	5:ev:97:HIS:CE1	2.28	0.69
1:TM:65:ASN:ND2	4:Vt:57:ASP:O	2.26	0.69
1:Tp:92:LYS:NZ	1:Tp:288:ASP:O	2.24	0.69
1:UX:48:LYS:NZ	2:Vf:33:SER:O	2.24	0.69
1:Um:165:ILE:HD13	1:Um:191:LEU:HD23	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bH:123:ARG:HG3	5:bH:140:ILE:HD12	1.74	0.69
5:bx:123:ARG:HG3	5:bx:140:ILE:HD12	1.75	0.69
5:cT:123:ARG:HG3	5:cT:140:ILE:HD12	1.74	0.69
5:cv:123:ARG:HG3	5:cv:140:ILE:HD12	1.74	0.69
5:df:123:ARG:HG3	5:df:140:ILE:HD12	1.75	0.69
5:eF:123:ARG:HG3	5:eF:140:ILE:HD12	1.74	0.69
5:eG:147:ILE:HD11	5:eo:55:ILE:HG12	1.75	0.69
1:AU:261:ILE:HD12	1:AU:312:LEU:HD23	1.75	0.69
1:BW:164:GLN:HE22	1:BW:308:ARG:HA	1.57	0.69
1:Et:65:ASN:ND2	4:Ha:57:ASP:O	2.26	0.69
1:Fm:225:SER:HB2	1:GD:224:ALA:HB3	1.73	0.69
1:KW:192:GLU:HB3	2:Lw:36:ILE:HD11	1.74	0.69
1:LH:164:GLN:HE22	1:LH:308:ARG:HA	1.56	0.69
1:PY:165:ILE:HD13	1:PY:191:LEU:HD23	1.74	0.69
1:Pw:80:ASN:ND2	1:Pw:153:PRO:O	2.21	0.69
1:Pw:164:GLN:HE22	1:Pw:308:ARG:HA	1.56	0.69
4:RQ:77:ILE:HG13	4:RQ:91:PRO:HB3	1.74	0.69
1:UO:199:THR:HG21	1:UO:265:ASN:HB2	1.75	0.69
6:YB:244:ASN:O	6:YB:248:LEU:HG	1.92	0.69
5:ZT:123:ARG:HG3	5:ZT:140:ILE:HD12	1.75	0.69
5:ZX:123:ARG:HG3	5:ZX:140:ILE:HD12	1.74	0.69
5:aJ:123:ARG:HG3	5:aJ:140:ILE:HD12	1.74	0.69
5:aX:123:ARG:HG3	5:aX:140:ILE:HD12	1.75	0.69
5:bz:123:ARG:HG3	5:bz:140:ILE:HD12	1.74	0.69
5:cP:123:ARG:HG3	5:cP:140:ILE:HD12	1.74	0.69
5:dj:123:ARG:HG3	5:dj:140:ILE:HD12	1.74	0.69
5:eJ:123:ARG:HG3	5:eJ:140:ILE:HD12	1.74	0.69
5:eQ:86:ILE:HD11	5:eQ:118:ARG:HE	1.57	0.69
5:eV:123:ARG:HG3	5:eV:140:ILE:HD12	1.74	0.69
5:et:123:ARG:HG3	5:et:140:ILE:HD12	1.74	0.69
5:fF:123:ARG:HG3	5:fF:140:ILE:HD12	1.74	0.69
5:fR:123:ARG:HG3	5:fR:140:ILE:HD12	1.74	0.69
5:fZ:123:ARG:HG3	5:fZ:140:ILE:HD12	1.74	0.69
5:ff:123:ARG:HG3	5:ff:140:ILE:HD12	1.74	0.69
5:fx:123:ARG:HG3	5:fx:140:ILE:HD12	1.74	0.69
1:BM:199:THR:HG21	1:BM:265:ASN:HB2	1.75	0.69
1:FJ:261:ILE:HD12	1:FJ:312:LEU:HD23	1.75	0.69
1:FP:80:ASN:ND2	1:FP:153:PRO:O	2.23	0.69
1:Km:143:LYS:HA	2:MC:39:ARG:HE	1.57	0.69
1:Pe:286:ASP:HB2	1:Pe:294:HIS:HB2	1.74	0.69
1:Px:165:ILE:HD13	1:Px:191:LEU:HD23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yg:58:ARG:HH21	5:Yy:106:LYS:NZ	1.91	0.69
5:aF:123:ARG:HG3	5:aF:140:ILE:HD12	1.74	0.69
5:bD:123:ARG:HG3	5:bD:140:ILE:HD12	1.74	0.69
5:ch:123:ARG:HG3	5:ch:140:ILE:HD12	1.74	0.69
5:db:123:ARG:HG3	5:db:140:ILE:HD12	1.74	0.69
5:dv:123:ARG:HG3	5:dv:140:ILE:HD12	1.74	0.69
5:ex:123:ARG:HG3	5:ex:140:ILE:HD12	1.74	0.69
5:fL:123:ARG:HG3	5:fL:140:ILE:HD12	1.74	0.69
5:fX:123:ARG:HG3	5:fX:140:ILE:HD12	1.74	0.69
1:BL:286:ASP:HB2	1:BL:294:HIS:HB2	1.75	0.69
1:Bd:80:ASN:ND2	1:Bd:153:PRO:O	2.21	0.69
1:Fh:192:GLU:HB3	2:HH:36:ILE:HD11	1.74	0.69
1:GE:77:VAL:HG21	2:HM:32:LEU:HD23	1.74	0.69
1:Kp:80:ASN:ND2	1:Kp:153:PRO:O	2.25	0.69
1:PN:199:THR:HG21	1:PN:265:ASN:HB2	1.74	0.69
5:Yf:123:ARG:HG3	5:Yf:140:ILE:HD12	1.73	0.69
5:ZO:112:ASP:OD1	5:ZO:115:GLN:NE2	2.26	0.69
5:Zh:123:ARG:HG3	5:Zh:140:ILE:HD12	1.74	0.69
5:Zp:123:ARG:HG3	5:Zp:140:ILE:HD12	1.74	0.69
5:ap:123:ARG:HG3	5:ap:140:ILE:HD12	1.74	0.69
5:dN:123:ARG:HG3	5:dN:140:ILE:HD12	1.74	0.69
5:dl:123:ARG:HG3	5:dl:140:ILE:HD12	1.74	0.69
5:fb:123:ARG:HG3	5:fb:140:ILE:HD12	1.74	0.69
5:fz:123:ARG:HG3	5:fz:140:ILE:HD12	1.74	0.69
1:Ji:65:ASN:ND2	4:MP:57:ASP:O	2.26	0.68
4:Mc:32:LEU:HD23	1:PB:77:VAL:HG21	1.73	0.68
2:Qb:140:ASN:HD21	2:Qb:144:GLU:HB2	1.57	0.68
1:Tj:317:LYS:NZ	1:Tj:319:SER:OXT	2.25	0.68
5:cb:123:ARG:HG3	5:cb:140:ILE:HD12	1.74	0.68
5:dB:123:ARG:HG3	5:dB:140:ILE:HD12	1.74	0.68
5:eP:123:ARG:HG3	5:eP:140:ILE:HD12	1.74	0.68
5:ep:123:ARG:HG3	5:ep:140:ILE:HD12	1.74	0.68
5:fn:123:ARG:HG3	5:fn:140:ILE:HD12	1.74	0.68
1:AE:65:ASN:ND2	4:Cl:57:ASP:O	2.26	0.68
1:Ab:317:LYS:NZ	1:Ab:319:SER:OXT	2.25	0.68
1:Tc:261:ILE:HD12	1:Tc:312:LEU:HD23	1.75	0.68
1:Tg:261:ILE:HD12	1:Tg:312:LEU:HD23	1.74	0.68
5:Yd:129:GLU:HA	5:Yd:132:LYS:HE2	1.76	0.68
5:ZV:123:ARG:HG3	5:ZV:140:ILE:HD12	1.74	0.68
5:cN:123:ARG:HG3	5:cN:140:ILE:HD12	1.75	0.68
5:ft:123:ARG:HG3	5:ft:140:ILE:HD12	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ak:286:ASP:HB2	1:Ak:294:HIS:HB2	1.75	0.68
1:BS:48:LYS:NZ	2:Ch:33:SER:O	2.27	0.68
1:Fn:89:ARG:HH21	1:Fn:112:LEU:HD21	1.59	0.68
1:Jy:261:ILE:HD12	1:Jy:312:LEU:HD23	1.75	0.68
1:Kc:89:ARG:HH21	1:Kc:112:LEU:HD21	1.59	0.68
1:PP:143:LYS:HA	2:Qg:39:ARG:HE	1.59	0.68
1:Pn:48:LYS:NZ	2:Qo:33:SER:O	2.27	0.68
1:Ts:286:ASP:HB2	1:Ts:294:HIS:HB2	1.75	0.68
1:UW:80:ASN:ND2	1:UW:153:PRO:O	2.24	0.68
5:an:123:ARG:HG3	5:an:140:ILE:HD12	1.74	0.68
5:bX:123:ARG:HG3	5:bX:140:ILE:HD12	1.74	0.68
5:bf:123:ARG:HG3	5:bf:140:ILE:HD12	1.74	0.68
5:dJ:123:ARG:HG3	5:dJ:140:ILE:HD12	1.74	0.68
5:dx:123:ARG:HG3	5:dx:140:ILE:HD12	1.74	0.68
5:el:123:ARG:HG3	5:el:140:ILE:HD12	1.73	0.68
2:CI:140:ASN:HD21	2:CI:144:GLU:HB2	1.57	0.68
1:FQ:65:ASN:ND2	4:MX:57:ASP:O	2.26	0.68
1:GB:199:THR:HG21	1:GB:265:ASN:HB2	1.75	0.68
1:Kq:80:ASN:ND2	1:Kq:153:PRO:O	2.25	0.68
1:Ky:48:LYS:NZ	2:Lz:33:SER:O	2.27	0.68
1:On:199:THR:HG21	1:On:265:ASN:HB2	1.76	0.68
1:PQ:22:ASP:OD1	5:Sa:213:ARG:NE	2.24	0.68
1:TL:210:SER:HB3	1:TO:244:ARG:HH12	1.56	0.68
5:YP:103:LEU:HD12	5:YP:113:ILE:HG23	1.74	0.68
5:Zf:123:ARG:HG3	5:Zf:140:ILE:HD12	1.74	0.68
5:Zj:123:ARG:HG3	5:Zj:140:ILE:HD12	1.74	0.68
5:Zr:123:ARG:HG3	5:Zr:140:ILE:HD12	1.74	0.68
5:aP:123:ARG:HG3	5:aP:140:ILE:HD12	1.74	0.68
5:al:123:ARG:HG3	5:al:140:ILE:HD12	1.74	0.68
5:ax:123:ARG:HG3	5:ax:140:ILE:HD12	1.74	0.68
5:bt:123:ARG:HG3	5:bt:140:ILE:HD12	1.74	0.68
5:bv:123:ARG:HG3	5:bv:140:ILE:HD12	1.75	0.68
5:cd:123:ARG:HG3	5:cd:140:ILE:HD12	1.75	0.68
5:dP:123:ARG:HG3	5:dP:140:ILE:HD12	1.74	0.68
5:dV:123:ARG:HG3	5:dV:140:ILE:HD12	1.74	0.68
5:dX:123:ARG:HG3	5:dX:140:ILE:HD12	1.74	0.68
5:fN:123:ARG:HG3	5:fN:140:ILE:HD12	1.74	0.68
1:Aw:261:ILE:HD12	1:Aw:312:LEU:HD23	1.76	0.68
1:Fx:143:LYS:HA	2:HN:39:ARG:HE	1.57	0.68
4:MV:77:ILE:HG13	4:MV:91:PRO:HB3	1.75	0.68
1:UE:143:LYS:HA	2:VV:39:ARG:HE	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UG:261:ILE:HD12	1:UG:312:LEU:HD23	1.76	0.68
2:Vj:77:PHE:HB2	4:WO:138:LYS:HE2	1.75	0.68
5:YS:130:GLN:O	5:YS:134:ILE:HG12	1.92	0.68
5:YZ:55:ILE:O	5:YZ:59:ILE:HG12	1.94	0.68
5:Yd:135:ALA:HB2	5:Yd:151:LEU:HD11	1.75	0.68
5:Zn:123:ARG:HG3	5:Zn:140:ILE:HD12	1.74	0.68
5:aV:123:ARG:HG3	5:aV:140:ILE:HD12	1.74	0.68
5:ar:123:ARG:HG3	5:ar:140:ILE:HD12	1.74	0.68
5:bL:123:ARG:HG3	5:bL:140:ILE:HD12	1.74	0.68
5:er:123:ARG:HG3	5:er:140:ILE:HD12	1.74	0.68
5:fD:123:ARG:HG3	5:fD:140:ILE:HD12	1.74	0.68
1:BA:164:GLN:HE22	1:BA:308:ARG:HA	1.57	0.68
2:Cf:181:ARG:HH12	2:Cg:94:LEU:HB3	1.58	0.68
4:DA:73:VAL:HG21	4:DA:117:ILE:HG12	1.74	0.68
1:Fv:199:THR:HG21	1:Fv:265:ASN:HB2	1.75	0.68
4:Hp:73:VAL:HG21	4:Hp:117:ILE:HG12	1.74	0.68
5:YZ:55:ILE:CG1	5:ZO:116:ALA:CB	2.71	0.68
5:Zl:123:ARG:HG3	5:Zl:140:ILE:HD12	1.74	0.68
5:bV:123:ARG:HG3	5:bV:140:ILE:HD12	1.74	0.68
5:bh:123:ARG:HG3	5:bh:140:ILE:HD12	1.74	0.68
5:cn:123:ARG:HG3	5:cn:140:ILE:HD12	1.74	0.68
5:ct:123:ARG:HG3	5:ct:140:ILE:HD12	1.74	0.68
5:dL:123:ARG:HG3	5:dL:140:ILE:HD12	1.74	0.68
5:dT:123:ARG:HG3	5:dT:140:ILE:HD12	1.74	0.68
5:dr:123:ARG:HG3	5:dr:140:ILE:HD12	1.74	0.68
5:en:123:ARG:HG3	5:en:140:ILE:HD12	1.73	0.68
1:Ay:89:ARG:HH21	1:Ay:112:LEU:HD21	1.59	0.68
1:BV:80:ASN:ND2	1:BV:153:PRO:O	2.24	0.68
1:FQ:317:LYS:NZ	1:FQ:319:SER:OXT	2.25	0.68
1:Fu:165:ILE:HD13	1:Fu:191:LEU:HD23	1.74	0.68
1:GT:77:VAL:HG21	2:HU:32:LEU:HD23	1.75	0.68
1:Ka:261:ILE:HD12	1:Ka:312:LEU:HD23	1.76	0.68
1:Pf:80:ASN:ND2	1:Pf:153:PRO:O	2.25	0.68
1:Po:199:THR:HG21	1:Po:265:ASN:HB2	1.76	0.68
2:QJ:153:LYS:O	2:QJ:181:ARG:NE	2.26	0.68
1:UG:89:ARG:HH21	1:UG:112:LEU:HD21	1.59	0.68
1:Ua:48:LYS:NZ	2:Vp:33:SER:O	2.27	0.68
5:ab:123:ARG:HG3	5:ab:140:ILE:HD12	1.74	0.68
5:eH:123:ARG:HG3	5:eH:140:ILE:HD12	1.74	0.68
5:fd:123:ARG:HG3	5:fd:140:ILE:HD12	1.74	0.68
5:gB:123:ARG:HG3	5:gB:140:ILE:HD12	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Be:77:VAL:HG21	2:Cf:32:LEU:HD23	1.75	0.68
5:EC:195:VAL:HG11	5:Zj:96:ASN:OD1	1.94	0.68
4:Hg:77:ILE:HG13	4:Hg:91:PRO:HB3	1.75	0.68
1:Kc:261:ILE:HD12	1:Kc:312:LEU:HD23	1.76	0.68
1:LG:143:LYS:HA	2:Lb:39:ARG:HE	1.59	0.68
1:On:261:ILE:HD12	1:On:312:LEU:HD23	1.75	0.68
1:PR:261:ILE:HD12	1:PR:312:LEU:HD23	1.76	0.68
1:Pf:199:THR:HG21	1:Pf:265:ASN:HB2	1.75	0.68
1:Pj:80:ASN:ND2	1:Pj:153:PRO:O	2.22	0.68
5:ZL:77:LEU:HD22	5:ZM:83:ILE:HD11	1.76	0.68
5:aD:123:ARG:HG3	5:aD:140:ILE:HD12	1.74	0.68
5:az:123:ARG:HG3	5:az:140:ILE:HD12	1.74	0.68
5:cL:123:ARG:HG3	5:cL:140:ILE:HD12	1.74	0.68
5:cl:123:ARG:HG3	5:cl:140:ILE:HD12	1.74	0.68
5:em:86:ILE:HD11	5:em:118:ARG:HE	1.57	0.68
1:GJ:48:LYS:NZ	2:HK:33:SER:O	2.27	0.68
1:GR:143:LYS:HA	2:Gm:39:ARG:HE	1.59	0.68
4:Mb:77:ILE:HG13	4:Mb:91:PRO:HB3	1.74	0.68
2:Qu:77:PHE:HB2	4:RZ:138:LYS:HE2	1.74	0.68
1:UA:192:GLU:HB3	2:Va:36:ILE:HD11	1.74	0.68
1:UE:261:ILE:HD12	1:UE:312:LEU:HD23	1.76	0.68
2:VQ:140:ASN:HD21	2:VQ:144:GLU:HB2	1.57	0.68
5:Zd:123:ARG:HG3	5:Zd:140:ILE:HD12	1.74	0.68
5:ad:123:ARG:HG3	5:ad:140:ILE:HD12	1.74	0.68
5:bT:123:ARG:HG3	5:bT:140:ILE:HD12	1.75	0.68
5:cp:123:ARG:HG3	5:cp:140:ILE:HD12	1.74	0.68
5:fv:123:ARG:HG3	5:fv:140:ILE:HD12	1.74	0.68
4:Ct:57:ASP:O	1:Tj:65:ASN:ND2	2.26	0.68
1:Fn:165:ILE:HD13	1:Fn:191:LEU:HD23	1.76	0.68
1:Jy:199:THR:HG21	1:Jy:265:ASN:HB2	1.76	0.68
1:KY:199:THR:HG21	1:KY:265:ASN:HB2	1.74	0.68
1:LI:165:ILE:HD13	1:LI:191:LEU:HD23	1.74	0.68
1:OX:65:ASN:ND2	4:RE:57:ASP:O	2.26	0.68
1:PP:261:ILE:HD12	1:PP:312:LEU:HD23	1.76	0.68
1:Pv:143:LYS:HA	2:QQ:39:ARG:HE	1.59	0.68
2:QU:125:LYS:HD2	2:QU:169:ASP:HA	1.76	0.68
1:Th:80:ASN:ND2	1:Th:153:PRO:O	2.27	0.68
1:UU:80:ASN:ND2	1:UU:153:PRO:O	2.25	0.68
5:YK:79:GLU:OE1	5:YK:82:ARG:NH2	2.27	0.68
5:cF:123:ARG:HG3	5:cF:140:ILE:HD12	1.75	0.68
5:ds:147:ILE:HG13	5:ea:55:ILE:HG23	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dt:123:ARG:HG3	5:dt:140:ILE:HD12	1.74	0.68
5:dy:56:ASN:HB3	5:eg:147:ILE:HG22	1.76	0.68
5:dz:123:ARG:HG3	5:dz:140:ILE:HD12	1.74	0.68
5:eB:123:ARG:HG3	5:eB:140:ILE:HD12	1.74	0.68
5:eN:123:ARG:HG3	5:eN:140:ILE:HD12	1.74	0.68
1:As:192:GLU:HB3	2:CS:36:ILE:HD11	1.74	0.67
4:DE:73:VAL:HG21	4:DE:117:ILE:HG12	1.76	0.67
1:FO:80:ASN:ND2	1:FO:153:PRO:O	2.27	0.67
1:GH:48:LYS:NZ	2:HW:33:SER:O	2.27	0.67
1:Pc:143:LYS:HA	4:RX:39:ARG:HE	1.57	0.67
1:UZ:143:LYS:HA	2:Vk:39:ARG:HE	1.59	0.67
1:Ue:59:THR:O	4:WP:61:ASN:ND2	2.27	0.67
4:Vz:77:ILE:HG13	4:Vz:91:PRO:HB3	1.75	0.67
4:WO:73:VAL:HG21	4:WO:117:ILE:HG12	1.76	0.67
5:YP:84:ASN:OD1	5:YP:85:GLU:N	2.27	0.67
5:Yk:55:ILE:HG21	5:ZQ:116:ALA:HB2	1.76	0.67
5:aN:123:ARG:HG3	5:aN:140:ILE:HD12	1.74	0.67
5:bZ:123:ARG:HG3	5:bZ:140:ILE:HD12	1.74	0.67
5:cB:123:ARG:HG3	5:cB:140:ILE:HD12	1.74	0.67
5:cz:123:ARG:HG3	5:cz:140:ILE:HD12	1.74	0.67
1:Ao:33:GLN:NE2	1:Ao:269:ILE:O	2.24	0.67
1:Ay:261:ILE:HD12	1:Ay:312:LEU:HD23	1.76	0.67
1:BG:80:ASN:ND2	1:BG:153:PRO:O	2.25	0.67
1:BU:48:LYS:NZ	2:CV:33:SER:O	2.27	0.67
1:FZ:286:ASP:HB2	1:FZ:294:HIS:HB2	1.75	0.67
1:Fl:261:ILE:HD12	1:Fl:312:LEU:HD23	1.76	0.67
1:Kk:199:THR:HG21	1:Kk:265:ASN:HB2	1.75	0.67
5:aR:123:ARG:HG3	5:aR:140:ILE:HD12	1.74	0.67
5:av:123:ARG:HG3	5:av:140:ILE:HD12	1.74	0.67
5:cJ:123:ARG:HG3	5:cJ:140:ILE:HD12	1.74	0.67
5:cR:123:ARG:HG3	5:cR:140:ILE:HD12	1.74	0.67
5:dZ:123:ARG:HG3	5:dZ:140:ILE:HD12	1.74	0.67
5:eg:86:ILE:HD11	5:eg:118:ARG:HE	1.57	0.67
5:ek:86:ILE:HD11	5:ek:118:ARG:HE	1.59	0.67
1:BI:143:LYS:HA	2:CY:39:ARG:HE	1.58	0.67
2:Bt:63:PRO:HB2	2:Bt:85:GLU:HG2	1.77	0.67
1:Fs:143:LYS:HA	4:Hr:39:ARG:HE	1.59	0.67
2:Gq:125:LYS:HD2	2:Gq:169:ASP:HA	1.76	0.67
2:HU:181:ARG:HH12	2:HV:94:LEU:HB3	1.58	0.67
1:PZ:199:THR:HG21	1:PZ:265:ASN:HB2	1.75	0.67
1:Pk:143:LYS:HA	2:Qv:39:ARG:HE	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pl:48:LYS:NZ	2:RA:33:SER:O	2.27	0.67
5:Yg:58:ARG:CZ	5:Yy:106:LYS:HD2	2.24	0.67
5:Zt:123:ARG:HG3	5:Zt:140:ILE:HD12	1.74	0.67
5:aT:123:ARG:HG3	5:aT:140:ILE:HD12	1.74	0.67
5:cH:123:ARG:HG3	5:cH:140:ILE:HD12	1.75	0.67
5:eM:86:ILE:HD11	5:eM:118:ARG:HE	1.57	0.67
5:eS:86:ILE:HD11	5:eS:118:ARG:HE	1.59	0.67
5:fT:123:ARG:HG3	5:fT:140:ILE:HD12	1.74	0.67
5:fV:123:ARG:HG3	5:fV:140:ILE:HD12	1.74	0.67
5:gD:123:ARG:HG3	5:gD:140:ILE:HD12	1.74	0.67
1:Av:80:ASN:ND2	1:Av:153:PRO:O	2.26	0.67
2:CB:125:LYS:HD2	2:CB:169:ASP:HA	1.76	0.67
4:Ht:73:VAL:HG21	4:Ht:117:ILE:HG12	1.76	0.67
4:Hv:73:VAL:HG21	4:Hv:117:ILE:HG12	1.76	0.67
1:Kp:286:ASP:HB2	1:Kp:294:HIS:HB2	1.75	0.67
2:MJ:181:ARG:HH12	2:MK:94:LEU:HB3	1.59	0.67
1:PV:261:ILE:HD12	1:PV:312:LEU:HD23	1.75	0.67
1:Px:77:VAL:HG21	2:Qy:32:LEU:HD23	1.75	0.67
4:RX:73:VAL:HG21	4:RX:117:ILE:HG12	1.76	0.67
1:Ud:199:THR:HG21	1:Ud:265:ASN:HB2	1.76	0.67
4:WM:73:VAL:HG21	4:WM:117:ILE:HG12	1.76	0.67
5:YK:66:VAL:HA	5:YK:69:ARG:HE	1.59	0.67
5:YV:55:ILE:HD11	5:Ym:98:PHE:HD2	1.58	0.67
5:YX:128:ILE:HG13	5:YX:132:LYS:HE3	1.77	0.67
5:bd:123:ARG:HG3	5:bd:140:ILE:HD12	1.74	0.67
5:dR:123:ARG:HG3	5:dR:140:ILE:HD12	1.74	0.67
5:ev:123:ARG:HG3	5:ev:140:ILE:HD12	1.75	0.67
1:FH:77:VAL:HG21	2:Go:32:LEU:HD23	1.76	0.67
1:GA:286:ASP:HB2	1:GA:294:HIS:HB2	1.75	0.67
1:KD:80:ASN:ND2	1:KD:153:PRO:O	2.27	0.67
1:Ka:143:LYS:HA	2:Lr:39:ARG:HE	1.58	0.67
1:Kg:261:ILE:HD12	1:Kg:312:LEU:HD23	1.75	0.67
1:LF:199:THR:HG21	1:LF:265:ASN:HB2	1.77	0.67
4:MS:161:ILE:HA	4:MS:186:ASN:HA	1.77	0.67
4:Mi:77:ILE:HG13	4:Mi:91:PRO:HB3	1.77	0.67
1:Po:65:ASN:ND2	2:Qu:57:ASP:O	2.28	0.67
4:RZ:73:VAL:HG21	4:RZ:117:ILE:HG12	1.76	0.67
1:Uc:48:LYS:NZ	2:Vd:33:SER:O	2.27	0.67
5:Ye:76:LEU:HD21	5:Yf:76:LEU:HD22	1.75	0.67
5:du:56:ASN:HB3	5:ec:147:ILE:HG22	1.76	0.67
1:Ay:165:ILE:HD13	1:Ay:191:LEU:HD23	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:73:VAL:HG21	4:DG:117:ILE:HG12	1.77	0.67
1:Fn:261:ILE:HD12	1:Fn:312:LEU:HD23	1.76	0.67
1:GD:80:ASN:ND2	1:GD:153:PRO:O	2.24	0.67
1:GK:199:THR:HG21	1:GK:265:ASN:HB2	1.76	0.67
4:Ht:77:ILE:HG13	4:Ht:91:PRO:HB3	1.77	0.67
1:LI:77:VAL:HG21	2:MJ:32:LEU:HD23	1.75	0.67
4:Mi:73:VAL:HG21	4:Mi:117:ILE:HG12	1.76	0.67
1:PD:286:ASP:HB2	1:PD:294:HIS:HB2	1.75	0.67
2:Qy:181:ARG:HH12	2:Qz:94:LEU:HB3	1.59	0.67
4:RH:161:ILE:HA	4:RH:186:ASN:HA	1.77	0.67
4:RK:77:ILE:HG13	4:RK:91:PRO:HB3	1.75	0.67
4:RX:77:ILE:HG13	4:RX:91:PRO:HB3	1.77	0.67
1:Tc:199:THR:HG21	1:Tc:265:ASN:HB2	1.75	0.67
5:bB:123:ARG:HG3	5:bB:140:ILE:HD12	1.74	0.67
5:bj:123:ARG:HG3	5:bj:140:ILE:HD12	1.74	0.67
5:cD:123:ARG:HG3	5:cD:140:ILE:HD12	1.74	0.67
1:AZ:80:ASN:ND2	1:AZ:153:PRO:O	2.27	0.67
1:BV:65:ASN:ND2	2:Cb:57:ASP:O	2.28	0.67
1:Bc:143:LYS:HA	2:Bx:39:ARG:HE	1.59	0.67
1:Fm:77:VAL:HG21	2:HE:32:LEU:HD23	1.77	0.67
1:GK:65:ASN:ND2	2:HQ:57:ASP:O	2.28	0.67
1:Kq:199:THR:HG21	1:Kq:265:ASN:HB2	1.75	0.67
5:TG:193:ASN:HD22	5:dn:106:LYS:CD	2.07	0.67
5:YR:103:LEU:HD12	5:YR:113:ILE:HG23	1.74	0.67
5:Ya:76:LEU:HD21	5:Yb:76:LEU:HD22	1.77	0.67
5:aL:123:ARG:HG3	5:aL:140:ILE:HD12	1.74	0.67
5:cj:123:ARG:HG3	5:cj:140:ILE:HD12	1.74	0.67
5:cr:123:ARG:HG3	5:cr:140:ILE:HD12	1.74	0.67
1:AS:77:VAL:HG21	2:Bz:32:LEU:HD23	1.76	0.67
1:Ab:65:ASN:ND2	4:Hi:57:ASP:O	2.26	0.67
1:BH:164:GLN:HE22	1:BH:308:ARG:HA	1.60	0.67
4:DE:77:ILE:HG13	4:DE:91:PRO:HB3	1.77	0.67
1:GB:80:ASN:ND2	1:GB:153:PRO:O	2.25	0.67
4:Hr:73:VAL:HG21	4:Hr:117:ILE:HG12	1.77	0.67
1:KE:80:ASN:ND2	1:KE:153:PRO:O	2.23	0.67
1:Kz:199:THR:HG21	1:Kz:265:ASN:HB2	1.76	0.67
1:Ol:77:VAL:HG21	2:QS:32:LEU:HD23	1.76	0.67
1:Pp:80:ASN:ND2	1:Pp:153:PRO:O	2.17	0.67
1:UP:164:GLN:HE22	1:UP:308:ARG:HA	1.60	0.67
1:UT:80:ASN:ND2	1:UT:153:PRO:O	2.25	0.67
1:Ud:65:ASN:ND2	2:Vj:57:ASP:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:at:123:ARG:HG3	5:at:140:ILE:HD12	1.74	0.67
1:Bd:261:ILE:HD12	1:Bd:312:LEU:HD23	1.77	0.67
4:DC:73:VAL:HG21	4:DC:117:ILE:HG12	1.77	0.67
1:Fr:261:ILE:HD12	1:Fr:312:LEU:HD23	1.75	0.67
1:Fw:164:GLN:HE22	1:Fw:308:ARG:HA	1.60	0.67
1:UK:261:ILE:HD12	1:UK:312:LEU:HD23	1.75	0.67
1:Uk:143:LYS:HA	2:VF:39:ARG:HE	1.59	0.67
4:WM:77:ILE:HG13	4:WM:91:PRO:HB3	1.77	0.67
5:bb:123:ARG:HG3	5:bb:140:ILE:HD12	1.75	0.67
5:eO:86:ILE:HD11	5:eO:118:ARG:HE	1.60	0.67
1:BV:199:THR:HG21	1:BV:265:ASN:HB2	1.76	0.67
1:GR:152:LEU:HD21	4:Hg:112:SER:HA	1.77	0.67
1:KO:286:ASP:HB2	1:KO:294:HIS:HB2	1.75	0.67
1:Kk:80:ASN:ND2	1:Kk:153:PRO:O	2.25	0.67
1:Kz:65:ASN:ND2	2:MF:57:ASP:O	2.27	0.67
1:Pa:164:GLN:HE22	1:Pa:308:ARG:HA	1.60	0.67
1:Pk:152:LEU:HD21	4:RZ:112:SER:HA	1.78	0.67
2:QM:63:PRO:HB2	2:QM:85:GLU:HG2	1.77	0.67
6:YI:195:GLU:CA	6:YI:199:GLN:HG2	2.25	0.67
1:Aw:143:LYS:HA	2:CN:39:ARG:HE	1.59	0.66
1:Az:286:ASP:HB2	1:Az:294:HIS:HB2	1.76	0.66
2:Cf:57:ASP:O	1:Uj:65:ASN:ND2	2.29	0.66
4:Cr:77:ILE:HG13	4:Cr:91:PRO:HB3	1.75	0.66
4:Cz:161:ILE:O	4:Cz:187:LYS:NZ	2.28	0.66
1:Fo:286:ASP:HB2	1:Fo:294:HIS:HB2	1.76	0.66
1:GG:152:LEU:HD21	4:Hv:112:SER:HA	1.76	0.66
1:GK:80:ASN:ND2	1:GK:153:PRO:O	2.24	0.66
1:Kl:77:VAL:HG21	2:MA:32:LEU:HD23	1.77	0.66
1:Ks:80:ASN:ND2	1:Ks:153:PRO:O	2.24	0.66
1:Pu:199:THR:HG21	1:Pu:265:ASN:HB2	1.77	0.66
1:UU:199:THR:HG21	1:UU:265:ASN:HB2	1.75	0.66
1:Ua:107:ASP:OD2	1:Ua:110:ASN:ND2	2.25	0.66
2:Vn:181:ARG:HH12	2:Vo:94:LEU:HB3	1.58	0.66
5:Yd:134:ILE:HD11	5:Ye:154:LEU:HD22	1.77	0.66
5:Yt:123:ARG:HG3	5:Yt:140:ILE:HD12	1.78	0.66
4:Co:161:ILE:HA	4:Co:186:ASN:HA	1.77	0.66
1:FJ:199:THR:HG21	1:FJ:265:ASN:HB2	1.76	0.66
1:Fl:143:LYS:HA	2:HC:39:ARG:HE	1.59	0.66
1:GQ:199:THR:HG21	1:GQ:265:ASN:HB2	1.77	0.66
2:Gi:63:PRO:HB2	2:Gi:85:GLU:HG2	1.77	0.66
2:QT:137:LEU:HD11	2:QT:159:ALA:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YN:63:LEU:HD11	5:Yc:135:ALA:HA	1.75	0.66
5:ZF:123:ARG:HG3	5:ZF:140:ILE:HD12	1.77	0.66
2:CA:137:LEU:HD11	2:CA:159:ALA:HB2	1.78	0.66
2:CR:123:LEU:HD21	2:CR:131:VAL:HG21	1.77	0.66
1:Kv:152:LEU:HD21	4:Mk:112:SER:HA	1.77	0.66
1:PL:261:ILE:HD12	1:PL:312:LEU:HD23	1.78	0.66
1:PZ:80:ASN:ND2	1:PZ:153:PRO:O	2.25	0.66
1:Ti:80:ASN:ND2	1:Ti:153:PRO:O	2.23	0.66
1:UN:77:VAL:HG21	2:Vl:32:LEU:HD23	1.78	0.66
1:UR:143:LYS:HA	4:WM:39:ARG:HE	1.61	0.66
4:Hd:161:ILE:HA	4:Hd:186:ASN:HA	1.77	0.66
1:Kw:48:LYS:NZ	2:ML:33:SER:O	2.27	0.66
2:LU:153:LYS:O	2:LU:181:ARG:NE	2.26	0.66
1:Pk:261:ILE:HD12	1:Pk:312:LEU:HD23	1.78	0.66
4:RS:161:ILE:O	4:RS:187:LYS:NZ	2.28	0.66
5:YJ:60:THR:HG21	5:YW:146:GLU:HB3	1.77	0.66
5:Ye:103:LEU:HD12	5:Ye:113:ILE:HG23	1.78	0.66
5:Yp:123:ARG:HG3	5:Yp:140:ILE:HD12	1.76	0.66
5:ZE:56:ASN:HD21	5:Zc:141:SER:HB3	1.61	0.66
1:Ax:77:VAL:HG21	2:CP:32:LEU:HD23	1.77	0.66
2:Gp:137:LEU:HD11	2:Gp:159:ALA:HB2	1.78	0.66
4:Mk:73:VAL:HG21	4:Mk:117:ILE:HG12	1.77	0.66
1:Os:80:ASN:ND2	1:Os:153:PRO:O	2.27	0.66
1:PQ:77:VAL:HG21	2:Qi:32:LEU:HD23	1.77	0.66
1:Pp:261:ILE:HD12	1:Pp:312:LEU:HD23	1.77	0.66
1:Um:77:VAL:HG21	2:Vn:32:LEU:HD23	1.75	0.66
5:Ys:56:ASN:HD21	5:Zo:141:SER:HB3	1.60	0.66
1:AU:199:THR:HG21	1:AU:265:ASN:HB2	1.76	0.66
1:Ab:80:ASN:ND2	1:Ab:153:PRO:O	2.29	0.66
1:BR:152:LEU:HD21	4:DG:112:SER:HA	1.76	0.66
1:FQ:80:ASN:ND2	1:FQ:153:PRO:O	2.29	0.66
1:Fm:22:ASP:OD1	5:Iw:213:ARG:NE	2.24	0.66
1:GA:80:ASN:ND2	1:GA:153:PRO:O	2.25	0.66
1:KZ:308:ARG:HH21	2:Lj:31:LEU:HB2	1.60	0.66
1:Ke:80:ASN:ND2	1:Ke:153:PRO:O	2.21	0.66
2:LX:63:PRO:HB2	2:LX:85:GLU:HG2	1.77	0.66
2:Le:137:LEU:HD11	2:Le:159:ALA:HB2	1.78	0.66
4:RJ:142:ILE:HG12	4:RJ:159:ALA:HB2	1.78	0.66
1:TJ:317:LYS:NZ	1:TJ:319:SER:OXT	2.29	0.66
1:Ta:77:VAL:HG21	2:VH:32:LEU:HD23	1.76	0.66
1:Tj:80:ASN:ND2	1:Tj:153:PRO:O	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UH:286:ASP:HB2	1:UH:294:HIS:HB2	1.76	0.66
2:VB:63:PRO:HB2	2:VB:85:GLU:HG2	1.77	0.66
2:VI:137:LEU:HD11	2:VI:159:ALA:HB2	1.78	0.66
5:YJ:79:GLU:OE1	5:YJ:82:ARG:NH2	2.28	0.66
5:Yj:55:ILE:HG21	5:Ys:116:ALA:HB2	1.77	0.66
1:AR:77:VAL:HG21	4:Vt:32:LEU:HD23	1.78	0.66
1:Bb:65:ASN:ND2	2:HU:57:ASP:O	2.29	0.66
1:Bc:152:LEU:HD21	4:Cr:112:SER:HA	1.77	0.66
2:Bp:63:PRO:HB2	2:Bp:85:GLU:HG2	1.78	0.66
1:Fj:261:ILE:HD12	1:Fj:312:LEU:HD23	1.78	0.66
1:GM:152:LEU:HD21	4:Hx:112:SER:HA	1.77	0.66
1:GQ:65:ASN:ND2	2:MJ:57:ASP:O	2.29	0.66
1:Jw:77:VAL:HG21	2:Ld:32:LEU:HD23	1.76	0.66
1:Jx:100:THR:HG22	1:Jx:105:ILE:HG23	1.78	0.66
1:KF:65:ASN:ND2	4:RM:57:ASP:O	2.26	0.66
1:LA:261:ILE:HD12	1:LA:312:LEU:HD23	1.77	0.66
1:PR:89:ARG:HH21	1:PR:112:LEU:HD21	1.59	0.66
1:Pu:65:ASN:ND2	2:Vn:57:ASP:O	2.29	0.66
1:UD:308:ARG:HH21	2:VN:31:LEU:HB2	1.60	0.66
5:YP:100:LYS:HD2	5:YP:110:LEU:HD11	1.77	0.66
5:Yx:135:ALA:HB1	5:Yx:143:ILE:HG12	1.77	0.66
5:eA:147:ILE:HG13	5:ei:55:ILE:HG23	1.78	0.66
1:Eq:317:LYS:NZ	1:Eq:319:SER:OXT	2.29	0.66
1:GG:261:ILE:HD12	1:GG:312:LEU:HD23	1.78	0.66
1:KY:261:ILE:HD12	1:KY:312:LEU:HD23	1.78	0.66
1:Kd:87:LYS:NZ	2:Lw:53:THR:O	2.27	0.66
1:Kj:48:LYS:NZ	2:MH:33:SER:O	2.29	0.66
2:Lf:125:LYS:HD2	2:Lf:169:ASP:HA	1.76	0.66
1:Tu:163:GLU:HB2	4:WE:31:LEU:HD22	1.77	0.66
1:Ul:261:ILE:HD12	1:Ul:312:LEU:HD23	1.77	0.66
2:VJ:125:LYS:HD2	2:VJ:169:ASP:HA	1.76	0.66
1:BH:77:VAL:HG21	2:CW:32:LEU:HD23	1.77	0.66
1:BR:143:LYS:HA	2:Cc:39:ARG:HE	1.59	0.66
4:Cq:142:ILE:HG12	4:Cq:159:ALA:HB2	1.78	0.66
1:Fw:77:VAL:HG21	2:HL:32:LEU:HD23	1.77	0.66
2:HH:63:PRO:HB2	2:HH:85:GLU:HG2	1.78	0.66
1:Kd:286:ASP:HB2	1:Kd:294:HIS:HB2	1.76	0.66
1:PF:163:GLU:HB2	4:RP:31:LEU:HD22	1.76	0.66
1:PY:77:VAL:HG21	2:Qw:32:LEU:HD23	1.78	0.66
4:Vw:161:ILE:HA	4:Vw:186:ASN:HA	1.77	0.66
4:Vy:142:ILE:HG12	4:Vy:159:ALA:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:YH:248:LEU:HD13	6:YI:216:GLN:HG2	1.78	0.66
5:Yf:94:LEU:HD21	5:Yf:121:LEU:HD23	1.78	0.66
5:Yn:123:ARG:HG3	5:Yn:140:ILE:HD12	1.77	0.66
5:Yz:76:LEU:HD22	5:ZA:76:LEU:HD21	1.78	0.66
5:ZJ:135:ALA:HB1	5:ZJ:143:ILE:HG12	1.76	0.66
5:dw:58:ARG:NH2	5:ef:146:GLU:OE1	2.29	0.66
1:As:261:ILE:HD12	1:As:312:LEU:HD23	1.78	0.66
1:Fk:308:ARG:HH21	2:Gu:31:LEU:HB2	1.60	0.66
1:GS:261:ILE:HD12	1:GS:312:LEU:HD23	1.77	0.66
4:Hf:142:ILE:HG12	4:Hf:159:ALA:HB2	1.78	0.66
1:Kj:77:VAL:HG21	2:MH:32:LEU:HD23	1.78	0.66
4:MU:142:ILE:HG12	4:MU:159:ALA:HB2	1.78	0.66
1:Om:100:THR:HG22	1:Om:105:ILE:HG23	1.78	0.66
1:PR:165:ILE:HD13	1:PR:191:LEU:HD23	1.77	0.66
2:Ql:63:PRO:HB2	2:Ql:85:GLU:HG2	1.78	0.66
4:RV:73:VAL:HG21	4:RV:117:ILE:HG12	1.77	0.66
1:UI:80:ASN:ND2	1:UI:153:PRO:O	2.21	0.66
2:VZ:123:LEU:HD21	2:VZ:131:VAL:HG21	1.77	0.66
6:Xy:195:GLU:CA	6:Xy:199:GLN:HG2	2.25	0.66
5:Yc:55:ILE:HD11	5:ZG:108:TYR:CE2	2.30	0.66
5:ZN:84:ASN:ND2	5:ZO:80:ALA:O	2.29	0.66
1:Fk:80:ASN:ND2	1:Fk:153:PRO:O	2.26	0.65
1:GH:107:ASP:OD2	1:GH:110:ASN:ND2	2.25	0.65
1:LF:65:ASN:ND2	2:Qy:57:ASP:O	2.29	0.65
1:PY:48:LYS:NZ	2:Qw:33:SER:O	2.29	0.65
1:Uc:80:ASN:ND2	1:Uc:153:PRO:O	2.24	0.65
2:Ux:63:PRO:HB2	2:Ux:85:GLU:HG2	1.78	0.65
2:Vh:77:PHE:HB2	4:WN:138:LYS:HE2	1.77	0.65
4:WR:161:ILE:HA	4:WR:186:ASN:HA	1.79	0.65
5:YQ:103:LEU:HD12	5:YQ:113:ILE:HG23	1.77	0.65
5:ZN:123:ARG:HG3	5:ZN:140:ILE:HD12	1.75	0.65
5:dw:147:ILE:HG13	5:ee:55:ILE:HG23	1.79	0.65
1:BF:77:VAL:HG21	2:Cd:32:LEU:HD23	1.78	0.65
1:BO:261:ILE:HD12	1:BO:312:LEU:HD23	1.78	0.65
2:HG:123:LEU:HD21	2:HG:131:VAL:HG21	1.77	0.65
1:KW:261:ILE:HD12	1:KW:312:LEU:HD23	1.78	0.65
1:Ku:87:LYS:NZ	2:MF:53:THR:O	2.26	0.65
1:Kv:261:ILE:HD12	1:Kv:312:LEU:HD23	1.78	0.65
2:MJ:77:PHE:HB2	4:Mm:138:LYS:HE2	1.78	0.65
1:Ou:80:ASN:ND2	1:Ou:153:PRO:O	2.29	0.65
1:PH:33:GLN:NE2	1:PH:269:ILE:O	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UV:261:ILE:HD12	1:UV:312:LEU:HD23	1.79	0.65
1:UZ:261:ILE:HD12	1:UZ:312:LEU:HD23	1.78	0.65
4:WK:73:VAL:HG21	4:WK:117:ILE:HG12	1.77	0.65
5:ds:58:ARG:NH2	5:eb:146:GLU:OE1	2.28	0.65
2:CS:63:PRO:HB2	2:CS:85:GLU:HG2	1.78	0.65
1:Fu:77:VAL:HG21	2:HS:32:LEU:HD23	1.78	0.65
1:GF:87:LYS:NZ	2:HQ:53:THR:O	2.26	0.65
1:Kr:152:LEU:HD21	4:Me:112:SER:HA	1.78	0.65
1:LG:87:LYS:NZ	2:Lb:53:THR:O	2.29	0.65
1:Om:110:ASN:OD1	1:Ot:62:ASN:ND2	2.28	0.65
5:YZ:55:ILE:CD1	5:ZO:116:ALA:CB	2.72	0.65
4:Ho:161:ILE:O	4:Ho:187:LYS:NZ	2.28	0.65
1:Kv:143:LYS:HA	2:MG:39:ARG:HE	1.59	0.65
1:LB:152:LEU:HD21	4:Mm:112:SER:HA	1.79	0.65
4:Mn:161:ILE:HA	4:Mn:186:ASN:HA	1.79	0.65
1:PS:286:ASP:HB2	1:PS:294:HIS:HB2	1.76	0.65
6:YB:195:GLU:CA	6:YB:199:GLN:HG2	2.25	0.65
5:YY:128:ILE:O	5:YY:132:LYS:HG2	1.97	0.65
5:Yi:131:ILE:HD13	5:Yi:140:ILE:HD11	1.77	0.65
5:Yl:123:ARG:HG3	5:Yl:140:ILE:HD12	1.77	0.65
5:Yx:84:ASN:ND2	5:Yy:80:ALA:O	2.29	0.65
5:ZH:84:ASN:HD22	5:ZI:83:ILE:HB	1.60	0.65
5:dq:58:ARG:NH2	5:eZ:146:GLU:OE1	2.30	0.65
1:BW:59:THR:O	4:DH:61:ASN:ND2	2.30	0.65
1:Bb:199:THR:HG21	1:Bb:265:ASN:HB2	1.77	0.65
1:GL:261:ILE:HD12	1:GL:312:LEU:HD23	1.77	0.65
2:Gf:153:LYS:O	2:Gf:181:ARG:NE	2.26	0.65
2:HJ:165:LYS:HE3	2:HJ:168:GLU:HA	1.79	0.65
1:Kb:77:VAL:HG21	2:Lt:32:LEU:HD23	1.77	0.65
2:Lw:63:PRO:HB2	2:Lw:85:GLU:HG2	1.78	0.65
4:Mg:73:VAL:HG21	4:Mg:117:ILE:HG12	1.77	0.65
1:Tb:100:THR:HG22	1:Tb:105:ILE:HG23	1.78	0.65
1:UF:77:VAL:HG21	2:VX:32:LEU:HD23	1.77	0.65
1:Ug:80:ASN:ND2	1:Ug:153:PRO:O	2.30	0.65
1:Uj:199:THR:HG21	1:Uj:265:ASN:HB2	1.77	0.65
2:Vf:77:PHE:HB2	4:WM:138:LYS:HE2	1.79	0.65
1:BM:80:ASN:ND2	1:BM:153:PRO:O	2.25	0.65
1:Fh:261:ILE:HD12	1:Fh:312:LEU:HD23	1.78	0.65
1:Fu:48:LYS:NZ	2:HS:33:SER:O	2.29	0.65
1:GC:261:ILE:HD12	1:GC:312:LEU:HD23	1.79	0.65
1:GD:261:ILE:HD12	1:GD:312:LEU:HD23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HU:77:PHE:HB2	4:Hx:138:LYS:HE2	1.78	0.65
1:Kc:165:ILE:HD13	1:Kc:191:LEU:HD23	1.76	0.65
1:PN:261:ILE:HD12	1:PN:312:LEU:HD23	1.78	0.65
1:UG:165:ILE:HD13	1:UG:191:LEU:HD23	1.76	0.65
2:Va:63:PRO:HB2	2:Va:85:GLU:HG2	1.78	0.65
4:WG:161:ILE:HA	4:WG:186:ASN:HA	1.78	0.65
6:YA:273:THR:HG22	6:YA:275:SER:H	1.61	0.65
5:Yd:94:LEU:HD23	5:Yd:124:LYS:HD2	1.79	0.65
5:du:58:ARG:NH2	5:ed:146:GLU:OE1	2.29	0.65
1:AS:164:GLN:HE22	1:AS:308:ARG:HA	1.62	0.65
1:BD:48:LYS:NZ	2:CZ:33:SER:O	2.30	0.65
1:FP:192:GLU:HB3	2:Gi:36:ILE:HD11	1.79	0.65
4:Hn:69:TYR:HB2	4:Hn:108:ILE:HD12	1.79	0.65
1:KF:80:ASN:ND2	1:KF:153:PRO:O	2.29	0.65
1:Pr:80:ASN:ND2	1:Pr:153:PRO:O	2.30	0.65
1:Pw:261:ILE:HD12	1:Pw:312:LEU:HD23	1.77	0.65
1:UA:261:ILE:HD12	1:UA:312:LEU:HD23	1.78	0.65
1:UF:212:LYS:HA	1:UF:215:LYS:HE3	1.79	0.65
1:UN:48:LYS:NZ	2:Vl:33:SER:O	2.29	0.65
4:WH:161:ILE:O	4:WH:187:LYS:NZ	2.28	0.65
1:BX:152:LEU:HD21	4:DI:112:SER:HA	1.78	0.65
1:Jf:317:LYS:NZ	1:Jf:319:SER:OXT	2.29	0.65
1:Pa:77:VAL:HG21	2:Qp:32:LEU:HD23	1.77	0.65
2:Qk:123:LEU:HD21	2:Qk:131:VAL:HG21	1.77	0.65
4:WO:77:ILE:HG13	4:WO:91:PRO:HB3	1.79	0.65
5:YK:103:LEU:HD12	5:YK:113:ILE:HG23	1.79	0.65
5:ZB:76:LEU:HD22	5:ZC:76:LEU:HD21	1.77	0.65
1:AB:317:LYS:NZ	1:AB:319:SER:OXT	2.29	0.65
1:Aa:192:GLU:HB3	2:Bt:36:ILE:HD11	1.79	0.65
1:Av:308:ARG:HH21	2:CF:31:LEU:HB2	1.60	0.65
1:BL:261:ILE:HD12	1:BL:312:LEU:HD23	1.79	0.65
1:FH:164:GLN:HE22	1:FH:308:ARG:HA	1.62	0.65
1:GN:80:ASN:ND2	1:GN:153:PRO:O	2.30	0.65
1:GS:77:VAL:HG21	2:HX:32:LEU:HD23	1.79	0.65
2:Ge:63:PRO:HB2	2:Ge:85:GLU:HG2	1.78	0.65
1:KF:57:PRO:HA	1:Ov:86:TYR:HE1	1.62	0.65
2:Ly:165:LYS:HE3	2:Ly:168:GLU:HA	1.79	0.65
1:PO:308:ARG:HH21	2:QY:31:LEU:HB2	1.61	0.65
1:Pe:77:VAL:HG21	2:Qm:32:LEU:HD23	1.79	0.65
1:Pw:77:VAL:HG21	2:RB:32:LEU:HD23	1.79	0.65
1:UP:77:VAL:HG21	2:Ve:32:LEU:HD23	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UZ:152:LEU:HD21	4:WO:112:SER:HA	1.77	0.65
1:Ue:261:ILE:HD12	1:Ue:312:LEU:HD23	1.77	0.65
5:do:58:ARG:NH2	5:eX:146:GLU:OE1	2.30	0.65
1:BN:261:ILE:HD12	1:BN:312:LEU:HD23	1.78	0.65
1:BW:261:ILE:HD12	1:BW:312:LEU:HD23	1.77	0.65
1:BY:80:ASN:ND2	1:BY:153:PRO:O	2.30	0.65
1:Fd:33:GLN:NE2	1:Fd:269:ILE:O	2.24	0.65
1:GG:143:LYS:HA	2:HR:39:ARG:HE	1.59	0.65
1:Kh:48:LYS:NZ	2:MD:33:SER:O	2.30	0.65
2:Lv:123:LEU:HD21	2:Lv:131:VAL:HG21	1.77	0.65
4:MP:32:LEU:HD23	1:Ok:77:VAL:HG21	1.78	0.65
1:OU:317:LYS:NZ	1:OU:319:SER:OXT	2.29	0.65
1:PW:143:LYS:HA	4:RV:39:ARG:HE	1.60	0.65
2:QI:63:PRO:HB2	2:QI:85:GLU:HG2	1.78	0.65
2:Qn:165:LYS:HE3	2:Qn:168:GLU:HA	1.79	0.65
1:Ti:192:GLU:HB3	2:VB:36:ILE:HD11	1.79	0.65
1:UL:48:LYS:NZ	2:Vh:33:SER:O	2.30	0.65
5:Yv:123:ARG:HG3	5:Yv:140:ILE:HD12	1.79	0.65
2:CU:165:LYS:HE3	2:CU:168:GLU:HA	1.79	0.64
1:GM:261:ILE:HD12	1:GM:312:LEU:HD23	1.79	0.64
4:Hl:161:ILE:HA	4:Hl:186:ASN:HA	1.79	0.64
4:Hn:161:ILE:HA	4:Hn:186:ASN:HA	1.79	0.64
1:KS:33:GLN:NE2	1:KS:269:ILE:O	2.24	0.64
1:LH:261:ILE:HD12	1:LH:312:LEU:HD23	1.77	0.64
1:PQ:212:LYS:HA	1:PQ:215:LYS:HE3	1.79	0.64
1:Pe:80:ASN:ND2	1:Pe:153:PRO:O	2.25	0.64
1:TP:92:LYS:NZ	1:TP:288:ASP:O	2.31	0.64
1:UF:22:ASP:OD1	5:XP:213:ARG:NE	2.24	0.64
1:UW:261:ILE:HD12	1:UW:312:LEU:HD23	1.78	0.64
4:WE:161:ILE:HA	4:WE:186:ASN:HA	1.79	0.64
1:Au:261:ILE:HD12	1:Au:312:LEU:HD23	1.78	0.64
1:BD:80:ASN:ND2	1:BD:153:PRO:O	2.31	0.64
1:Bd:77:VAL:HG21	2:Ci:32:LEU:HD23	1.79	0.64
4:DG:77:ILE:HG13	4:DG:91:PRO:HB3	1.79	0.64
1:Jl:92:LYS:NZ	1:Jl:288:ASP:O	2.31	0.64
1:Kd:80:ASN:ND2	1:Kd:153:PRO:O	2.25	0.64
1:LC:80:ASN:ND2	1:LC:153:PRO:O	2.30	0.64
1:Ou:57:PRO:HA	1:Tk:86:TYR:HE1	1.62	0.64
1:Pv:87:LYS:NZ	2:QQ:53:THR:O	2.29	0.64
4:RR:161:ILE:HA	4:RR:186:ASN:HA	1.79	0.64
1:TS:259:ILE:HB	1:TS:314:VAL:HB	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ul:77:VAL:HG21	2:Vq:32:LEU:HD23	1.79	0.64
1:Ul:80:ASN:ND2	1:Ul:153:PRO:O	2.21	0.64
5:YX:103:LEU:HD12	5:YX:113:ILE:HG23	1.80	0.64
1:BX:261:ILE:HD12	1:BX:312:LEU:HD23	1.79	0.64
1:FI:100:THR:HG22	1:FI:105:ILE:HG23	1.78	0.64
4:Ha:32:LEU:HD23	1:Jv:77:VAL:HG21	1.78	0.64
4:Hy:161:ILE:HA	4:Hy:186:ASN:HA	1.78	0.64
4:MX:77:ILE:HG13	4:MX:91:PRO:HB3	1.80	0.64
4:Md:161:ILE:O	4:Md:187:LYS:NZ	2.28	0.64
1:Ot:192:GLU:HB3	2:QM:36:ILE:HD11	1.79	0.64
4:RE:32:LEU:HD23	1:TZ:77:VAL:HG21	1.78	0.64
1:UL:80:ASN:ND2	1:UL:153:PRO:O	2.30	0.64
1:UT:261:ILE:HD12	1:UT:312:LEU:HD23	1.79	0.64
4:WG:69:TYR:HB2	4:WG:108:ILE:HD12	1.79	0.64
5:YW:144:ASP:HA	5:YW:148:LEU:HB2	1.79	0.64
5:Yf:128:ILE:O	5:Yf:132:LYS:HG2	1.98	0.64
1:Ab:57:PRO:HA	1:FR:86:TYR:HE1	1.62	0.64
1:Ac:86:TYR:HE1	1:Tj:57:PRO:HA	1.62	0.64
2:Bq:153:LYS:O	2:Bq:181:ARG:NE	2.26	0.64
4:Cy:69:TYR:HB2	4:Cy:108:ILE:HD12	1.79	0.64
4:DJ:161:ILE:HA	4:DJ:186:ASN:HA	1.79	0.64
1:KA:143:LYS:HA	2:LZ:39:ARG:HE	1.63	0.64
1:Kl:164:GLN:HE22	1:Kl:308:ARG:HA	1.60	0.64
4:Mk:77:ILE:HG13	4:Mk:91:PRO:HB3	1.79	0.64
5:Yc:103:LEU:HD12	5:Yc:113:ILE:HG23	1.79	0.64
5:dy:147:ILE:HG13	5:eg:55:ILE:HG23	1.80	0.64
1:BF:48:LYS:NZ	2:Cd:33:SER:O	2.29	0.64
1:FQ:57:PRO:HA	1:KG:86:TYR:HE1	1.62	0.64
1:Fs:80:ASN:ND2	1:Fs:153:PRO:O	2.31	0.64
1:Kb:22:ASP:OD1	5:Nl:213:ARG:NE	2.24	0.64
1:Kp:77:VAL:HG21	2:Lx:32:LEU:HD23	1.79	0.64
1:Ks:261:ILE:HD12	1:Ks:312:LEU:HD23	1.78	0.64
1:PO:80:ASN:ND2	1:PO:153:PRO:O	2.26	0.64
4:RS:77:ILE:HG13	4:RS:91:PRO:HB3	1.79	0.64
5:Yb:94:LEU:HD23	5:Yb:124:LYS:HD2	1.79	0.64
5:eq:86:ILE:HD11	5:eq:118:ARG:HE	1.62	0.64
1:BR:261:ILE:HD12	1:BR:312:LEU:HD23	1.78	0.64
1:GA:261:ILE:HD12	1:GA:312:LEU:HD23	1.79	0.64
4:Ho:77:ILE:HG13	4:Ho:91:PRO:HB3	1.79	0.64
1:Kr:261:ILE:HD12	1:Kr:312:LEU:HD23	1.78	0.64
2:LT:63:PRO:HB2	2:LT:85:GLU:HG2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PS:80:ASN:ND2	1:PS:153:PRO:O	2.25	0.64
1:PX:261:ILE:HD12	1:PX:312:LEU:HD23	1.79	0.64
1:Pv:152:LEU:HD21	4:RK:112:SER:HA	1.80	0.64
2:QP:77:PHE:HB2	4:RK:138:LYS:HE2	1.80	0.64
1:UC:261:ILE:HD12	1:UC:312:LEU:HD23	1.78	0.64
1:US:77:VAL:HG21	2:VY:32:LEU:HD23	1.80	0.64
6:YB:250:ASP:HA	6:YC:258:ARG:HH22	1.62	0.64
5:Yd:123:ARG:HG3	5:Yd:140:ILE:HD12	1.79	0.64
1:Ar:227:CYS:SG	1:Ar:228:GLU:N	2.71	0.64
1:Ay:80:ASN:ND2	1:Ay:153:PRO:O	2.26	0.64
2:CZ:77:PHE:HB2	4:DF:138:LYS:HE2	1.78	0.64
4:Cw:161:ILE:HA	4:Cw:186:ASN:HA	1.79	0.64
1:FL:143:LYS:HA	2:Gk:39:ARG:HE	1.63	0.64
2:HV:63:PRO:HB2	2:HV:85:GLU:HG2	1.80	0.64
1:Jl:259:ILE:HB	1:Jl:314:VAL:HB	1.79	0.64
1:Km:194:GLY:HA3	4:RY:36:ASN:HD22	1.63	0.64
2:MK:63:PRO:HB2	2:MK:85:GLU:HG2	1.80	0.64
4:Mc:69:TYR:HB2	4:Mc:108:ILE:HD12	1.79	0.64
1:Oa:92:LYS:NZ	1:Oa:288:ASP:O	2.31	0.64
1:Op:143:LYS:HA	2:QO:39:ARG:HE	1.63	0.64
1:Ph:261:ILE:HD12	1:Ph:312:LEU:HD23	1.78	0.64
2:Qz:63:PRO:HB2	2:Qz:85:GLU:HG2	1.80	0.64
1:Tw:33:GLN:NE2	1:Tw:269:ILE:O	2.24	0.64
1:Uf:152:LEU:HD21	4:WQ:112:SER:HA	1.79	0.64
5:Yc:112:ASP:OD1	5:Yc:115:GLN:NE2	2.30	0.64
1:Ax:212:LYS:HA	1:Ax:215:LYS:HE3	1.79	0.64
4:Ct:77:ILE:HG13	4:Ct:91:PRO:HB3	1.80	0.64
1:FR:107:ASP:OD2	1:FR:110:ASN:ND2	2.27	0.64
1:Jw:164:GLN:HE22	1:Jw:308:ARG:HA	1.62	0.64
1:KE:192:GLU:HB3	2:LX:36:ILE:HD11	1.79	0.64
1:PW:80:ASN:ND2	1:PW:153:PRO:O	2.31	0.64
2:QQ:165:LYS:HE3	2:QQ:168:GLU:HA	1.80	0.64
4:RP:161:ILE:HA	4:RP:186:ASN:HA	1.79	0.64
4:RR:69:TYR:HB2	4:RR:108:ILE:HD12	1.79	0.64
1:UO:80:ASN:ND2	1:UO:153:PRO:O	2.25	0.64
1:US:80:ASN:ND2	1:US:153:PRO:O	2.31	0.64
5:YT:103:LEU:HD12	5:YT:113:ILE:HG23	1.80	0.64
5:Ym:55:ILE:HD13	5:Zu:116:ALA:HB1	1.79	0.64
5:dk:147:ILE:HD11	5:eS:55:ILE:HG12	1.79	0.64
1:AH:92:LYS:NZ	1:AH:288:ASP:O	2.31	0.64
1:AT:100:THR:HG22	1:AT:105:ILE:HG23	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:261:ILE:HD12	1:BE:312:LEU:HD23	1.79	0.64
2:Bx:165:LYS:HE3	2:Bx:168:GLU:HA	1.80	0.64
2:Bz:63:PRO:HB2	2:Bz:85:GLU:HG2	1.80	0.64
1:Ew:92:LYS:NZ	1:Ew:288:ASP:O	2.31	0.64
1:Fo:87:LYS:NZ	2:HH:53:THR:O	2.27	0.64
4:Hi:77:ILE:HG13	4:Hi:91:PRO:HB3	1.80	0.64
1:Jo:259:ILE:HB	1:Jo:314:VAL:HB	1.80	0.64
1:Jz:261:ILE:HD12	1:Jz:312:LEU:HD23	1.80	0.64
1:Ky:80:ASN:ND2	1:Ky:153:PRO:O	2.24	0.64
1:Ol:164:GLN:HE22	1:Ol:308:ARG:HA	1.62	0.64
1:PD:89:ARG:HH21	1:PD:112:LEU:HD21	1.63	0.64
1:Ph:80:ASN:ND2	1:Ph:153:PRO:O	2.24	0.64
1:Pp:59:THR:O	4:Ra:61:ASN:ND2	2.30	0.64
4:Rc:161:ILE:HA	4:Rc:186:ASN:HA	1.79	0.64
1:TP:259:ILE:HB	1:TP:314:VAL:HB	1.79	0.64
1:Tz:227:CYS:SG	1:Tz:228:GLU:N	2.71	0.64
1:UN:261:ILE:HD12	1:UN:312:LEU:HD23	1.80	0.64
2:Vl:180:ASN:O	2:Vm:180:ASN:ND2	2.31	0.64
4:WB:77:ILE:HG13	4:WB:91:PRO:HB3	1.80	0.64
6:YI:205:SER:HB2	6:YI:245:LEU:HD23	1.80	0.64
5:Ya:55:ILE:HD12	5:ZI:103:LEU:HD21	1.80	0.64
5:Yi:123:ARG:HH22	5:Yi:141:SER:H	1.44	0.64
5:Yj:147:ILE:H	5:Yj:147:ILE:HD12	1.63	0.64
1:BC:80:ASN:ND2	1:BC:153:PRO:O	2.31	0.64
4:Cz:77:ILE:HG13	4:Cz:91:PRO:HB3	1.79	0.64
1:Ez:259:ILE:HB	1:Ez:314:VAL:HB	1.80	0.64
1:GR:87:LYS:NZ	2:Gm:53:THR:O	2.29	0.64
1:Jx:110:ASN:OD1	1:KE:62:ASN:ND2	2.28	0.64
1:Ko:77:VAL:HG21	2:Lu:32:LEU:HD23	1.80	0.64
1:LH:77:VAL:HG21	2:MM:32:LEU:HD23	1.79	0.64
2:Lb:165:LYS:HE3	2:Lb:168:GLU:HA	1.80	0.64
1:PW:48:LYS:NZ	2:Qs:33:SER:O	2.30	0.64
1:Pd:77:VAL:HG21	2:Qj:32:LEU:HD23	1.80	0.64
1:Pe:261:ILE:HD12	1:Pe:312:LEU:HD23	1.79	0.64
4:RM:77:ILE:HG13	4:RM:91:PRO:HB3	1.80	0.64
1:Uk:152:LEU:HD21	4:Vz:112:SER:HA	1.79	0.64
2:Vc:165:LYS:HE3	2:Vc:168:GLU:HA	1.79	0.64
5:Yt:76:LEU:HD22	5:Yu:76:LEU:HD21	1.78	0.64
5:ZO:55:ILE:HD12	5:ZS:103:LEU:HD21	1.79	0.64
5:dy:58:ARG:NH2	5:eh:146:GLU:OE1	2.31	0.64
5:eG:98:PHE:HB3	5:eG:117:GLN:HE22	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:261:ILE:HD12	1:BF:312:LEU:HD23	1.80	0.63
4:Cy:161:ILE:HA	4:Cy:186:ASN:HA	1.79	0.63
1:GA:77:VAL:HG21	2:HI:32:LEU:HD23	1.79	0.63
4:Hb:93:VAL:HG21	4:Hb:117:ILE:HD11	1.80	0.63
1:Kq:261:ILE:HD12	1:Kq:312:LEU:HD23	1.80	0.63
2:Lq:23:LYS:N	2:Lq:67:TYR:OH	2.31	0.63
2:MF:77:PHE:HB2	4:Mk:138:LYS:HE2	1.79	0.63
1:Oa:259:ILE:HB	1:Oa:314:VAL:HB	1.79	0.63
5:YN:70:GLU:HG3	5:Yc:139:ASP:HB2	1.79	0.63
5:Yc:58:ARG:CB	5:ZG:108:TYR:OH	2.46	0.63
5:Yi:128:ILE:O	5:Yi:132:LYS:HG2	1.97	0.63
5:Yz:123:ARG:HG3	5:Yz:140:ILE:HD12	1.81	0.63
5:dm:58:ARG:NH2	5:eV:146:GLU:OE1	2.31	0.63
2:Go:63:PRO:HB2	2:Go:85:GLU:HG2	1.80	0.63
1:KZ:109:ASN:O	4:Md:24:ASN:ND2	2.32	0.63
1:Kg:80:ASN:ND2	1:Kg:153:PRO:O	2.31	0.63
1:LB:261:ILE:HD12	1:LB:312:LEU:HD23	1.79	0.63
4:MQ:93:VAL:HG21	4:MQ:117:ILE:HD11	1.81	0.63
1:Ov:107:ASP:OD2	1:Ov:110:ASN:ND2	2.27	0.63
1:Pt:89:ARG:HH21	1:Pt:112:LEU:HD21	1.63	0.63
1:TW:55:ALA:O	1:Ta:86:TYR:OH	2.17	0.63
1:Te:143:LYS:HA	2:VD:39:ARG:HE	1.63	0.63
1:Ts:89:ARG:HH21	1:Ts:112:LEU:HD21	1.63	0.63
1:UD:109:ASN:O	4:WH:24:ASN:ND2	2.32	0.63
2:VF:165:LYS:HE3	2:VF:168:GLU:HA	1.80	0.63
5:YQ:98:PHE:HB3	5:YQ:117:GLN:HE22	1.63	0.63
5:YW:128:ILE:O	5:YW:132:LYS:HG2	1.98	0.63
5:eA:147:ILE:HD11	5:ei:55:ILE:HG12	1.80	0.63
1:AH:259:ILE:HB	1:AH:314:VAL:HB	1.79	0.63
1:AW:143:LYS:HA	2:Bv:39:ARG:HE	1.63	0.63
1:BA:87:LYS:NZ	2:CR:53:THR:O	2.30	0.63
1:BK:77:VAL:HG21	2:CQ:32:LEU:HD23	1.80	0.63
2:CM:23:LYS:N	2:CM:67:TYR:OH	2.32	0.63
2:Cd:180:ASN:O	2:Ce:180:ASN:ND2	2.31	0.63
1:FE:152:LEU:HD21	2:Gf:105:SER:HA	1.81	0.63
1:Fs:48:LYS:NZ	2:HO:33:SER:O	2.30	0.63
1:Fx:194:GLY:HA3	4:Mj:36:ASN:HD22	1.63	0.63
1:GB:261:ILE:HD12	1:GB:312:LEU:HD23	1.81	0.63
4:Hv:77:ILE:HG13	4:Hv:91:PRO:HB3	1.79	0.63
1:KQ:163:GLU:HB2	4:Ma:31:LEU:HD22	1.80	0.63
1:Kk:261:ILE:HD12	1:Kk:312:LEU:HD23	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LG:152:LEU:HD21	4:MV:112:SER:HA	1.79	0.63
1:PO:109:ASN:O	4:RS:24:ASN:ND2	2.32	0.63
1:Uf:261:ILE:HD12	1:Uf:312:LEU:HD23	1.79	0.63
5:YK:70:GLU:HG3	5:YZ:137:VAL:HG11	1.80	0.63
5:YN:103:LEU:HD12	5:YN:113:ILE:HG23	1.80	0.63
5:YV:103:LEU:HD12	5:YV:113:ILE:HG23	1.81	0.63
5:ZB:123:ARG:HG3	5:ZB:140:ILE:HD12	1.80	0.63
5:dg:147:ILE:HD12	5:eO:55:ILE:HD13	1.80	0.63
1:AK:259:ILE:HB	1:AK:314:VAL:HB	1.80	0.63
1:Ew:259:ILE:HB	1:Ew:314:VAL:HB	1.79	0.63
1:Fz:80:ASN:ND2	1:Fz:153:PRO:O	2.31	0.63
1:LE:89:ARG:HH21	1:LE:112:LEU:HD21	1.64	0.63
1:PT:80:ASN:ND2	1:PT:153:PRO:O	2.21	0.63
1:PZ:261:ILE:HD12	1:PZ:312:LEU:HD23	1.81	0.63
4:RZ:77:ILE:HG13	4:RZ:91:PRO:HB3	1.79	0.63
1:Ta:164:GLN:HE22	1:Ta:308:ARG:HA	1.62	0.63
1:Td:261:ILE:HD12	1:Td:312:LEU:HD23	1.80	0.63
1:UT:77:VAL:HG21	2:Vb:32:LEU:HD23	1.79	0.63
5:YJ:98:PHE:HB3	5:YJ:117:GLN:HE22	1.64	0.63
5:Yx:123:ARG:HG3	5:Yx:140:ILE:HD12	1.79	0.63
1:Av:109:ASN:O	4:Cz:24:ASN:ND2	2.31	0.63
2:Cb:77:PHE:HB2	4:DG:138:LYS:HE2	1.79	0.63
1:GE:286:ASP:HB2	1:GE:294:HIS:HB2	1.81	0.63
2:Gm:165:LYS:HE3	2:Gm:168:GLU:HA	1.80	0.63
1:KG:107:ASP:OD2	1:KG:110:ASN:ND2	2.27	0.63
1:Od:259:ILE:HB	1:Od:314:VAL:HB	1.80	0.63
1:PY:164:GLN:HE22	1:PY:308:ARG:HA	1.63	0.63
1:Pd:80:ASN:ND2	1:Pd:153:PRO:O	2.31	0.63
1:Pg:152:LEU:HD21	4:RT:112:SER:HA	1.80	0.63
5:YT:110:LEU:O	5:YT:114:MET:HG2	1.98	0.63
5:YU:98:PHE:HB3	5:YU:117:GLN:HE22	1.63	0.63
1:BA:80:ASN:ND2	1:BA:153:PRO:O	2.21	0.63
1:BK:80:ASN:ND2	1:BK:153:PRO:O	2.31	0.63
4:Cz:93:VAL:HG21	4:Cz:117:ILE:HD11	1.80	0.63
4:Cz:161:ILE:HA	4:Cz:186:ASN:HA	1.81	0.63
1:Fv:80:ASN:ND2	1:Fv:153:PRO:O	2.25	0.63
1:Kb:212:LYS:HA	1:Kb:215:LYS:HE3	1.79	0.63
1:Oi:152:LEU:HD21	2:QJ:105:SER:HA	1.81	0.63
1:Om:261:ILE:HD12	1:Om:312:LEU:HD23	1.81	0.63
5:Rv:193:ASN:OD1	5:ev:97:HIS:HA	1.99	0.63
1:Td:80:ASN:ND2	1:Td:153:PRO:O	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UD:80:ASN:ND2	1:UD:153:PRO:O	2.26	0.63
1:Uk:87:LYS:NZ	2:VF:53:THR:O	2.29	0.63
2:VH:63:PRO:HB2	2:VH:85:GLU:HG2	1.80	0.63
6:Xy:272:ALA:HB2	6:YC:198:VAL:HG21	1.80	0.63
5:YZ:55:ILE:HG13	5:ZO:116:ALA:CB	2.29	0.63
5:Yv:135:ALA:HB1	5:Yv:143:ILE:HG12	1.79	0.63
1:AH:174:LYS:HE2	1:AH:318:GLN:HE21	1.64	0.63
1:AO:55:ALA:O	1:AS:86:TYR:OH	2.17	0.63
1:Ah:317:LYS:NZ	1:Ah:319:SER:OXT	2.32	0.63
1:BM:261:ILE:HD12	1:BM:312:LEU:HD23	1.81	0.63
1:Ke:87:LYS:NZ	2:Lv:53:THR:O	2.30	0.63
1:Kp:261:ILE:HD12	1:Kp:312:LEU:HD23	1.79	0.63
2:Ld:63:PRO:HB2	2:Ld:85:GLU:HG2	1.80	0.63
6:YI:196:SER:O	6:YI:199:GLN:HG3	1.99	0.63
5:YJ:103:LEU:HD12	5:YJ:113:ILE:HG23	1.80	0.63
5:Ya:103:LEU:HD12	5:Ya:113:ILE:HG23	1.80	0.63
5:Yn:77:LEU:HD23	5:Yo:79:GLU:HB3	1.81	0.63
5:eC:56:ASN:HB3	5:ek:147:ILE:HG22	1.80	0.63
5:eG:86:ILE:HD11	5:eG:118:ARG:HE	1.62	0.63
4:Cl:32:LEU:HD23	1:FG:77:VAL:HG21	1.78	0.63
1:FI:77:VAL:HG21	2:Ge:32:LEU:HD23	1.81	0.63
1:Fk:109:ASN:O	4:Ho:24:ASN:ND2	2.31	0.63
1:Fm:212:LYS:HA	1:Fm:215:LYS:HE3	1.79	0.63
1:Fr:80:ASN:ND2	1:Fr:153:PRO:O	2.31	0.63
1:GC:152:LEU:HD21	4:Hp:112:SER:HA	1.80	0.63
4:Ho:93:VAL:HG21	4:Ho:117:ILE:HD11	1.80	0.63
1:Jt:152:LEU:HD21	2:LU:105:SER:HA	1.81	0.63
1:Kh:80:ASN:ND2	1:Kh:153:PRO:O	2.31	0.63
4:Mc:161:ILE:HA	4:Mc:186:ASN:HA	1.78	0.63
1:PV:80:ASN:ND2	1:PV:153:PRO:O	2.31	0.63
1:UN:66:THR:OG1	2:Vm:58:LYS:NZ	2.32	0.63
1:UO:261:ILE:HD12	1:UO:312:LEU:HD23	1.81	0.63
6:YG:198:VAL:HG23	6:YG:252:LEU:HG	1.81	0.63
5:Yc:143:ILE:HG23	5:Yc:147:ILE:HG13	1.80	0.63
5:ZJ:123:ARG:HG3	5:ZJ:140:ILE:HD12	1.78	0.63
5:dm:147:ILE:HD11	5:eU:55:ILE:HG12	1.81	0.63
1:AP:152:LEU:HD21	2:Bq:105:SER:HA	1.81	0.63
1:AT:261:ILE:HD12	1:AT:312:LEU:HD23	1.81	0.63
1:BP:286:ASP:HB2	1:BP:294:HIS:HB2	1.81	0.63
4:Cy:43:VAL:HG11	4:Cy:170:LYS:HD3	1.81	0.63
1:Fv:261:ILE:HD12	1:Fv:312:LEU:HD23	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PX:77:VAL:HG21	2:Qr:32:LEU:HD23	1.81	0.63
2:QO:37:ASP:O	2:QO:41:GLN:NE2	2.32	0.63
2:Qk:167:THR:HG22	2:Qk:168:GLU:H	1.64	0.63
2:Qw:180:ASN:O	2:Qx:180:ASN:ND2	2.31	0.63
4:RF:93:VAL:HG21	4:RF:117:ILE:HD11	1.81	0.63
1:UH:87:LYS:NZ	2:Va:53:THR:O	2.27	0.63
1:UM:261:ILE:HD12	1:UM:312:LEU:HD23	1.79	0.63
2:VU:23:LYS:N	2:VU:67:TYR:OH	2.32	0.63
4:Vu:93:VAL:HG21	4:Vu:117:ILE:HD11	1.80	0.63
4:WH:161:ILE:HA	4:WH:186:ASN:HA	1.80	0.63
5:YR:110:LEU:O	5:YR:114:MET:HG2	1.99	0.63
5:Yb:122:VAL:HG11	5:Yb:151:LEU:HD13	1.80	0.63
5:Yh:110:LEU:O	5:Yh:114:MET:HG2	1.99	0.63
5:eA:58:ARG:NH2	5:ej:146:GLU:OE1	2.32	0.63
1:BO:80:ASN:ND2	1:BO:153:PRO:O	2.24	0.62
1:FI:261:ILE:HD12	1:FI:312:LEU:HD23	1.81	0.62
1:FK:261:ILE:HD12	1:FK:312:LEU:HD23	1.80	0.62
1:Ft:261:ILE:HD12	1:Ft:312:LEU:HD23	1.79	0.62
2:HB:23:LYS:N	2:HB:67:TYR:OH	2.32	0.62
4:Md:77:ILE:HG13	4:Md:91:PRO:HB3	1.79	0.62
1:PR:80:ASN:ND2	1:PR:153:PRO:O	2.26	0.62
1:Pg:261:ILE:HD12	1:Pg:312:LEU:HD23	1.79	0.62
1:UI:87:LYS:NZ	2:VZ:53:THR:O	2.30	0.62
2:VD:37:ASP:O	2:VD:41:GLN:NE2	2.32	0.62
6:Xy:298:LYS:HB2	6:Xz:177:TYR:CZ	2.34	0.62
5:ZI:153:SER:HB2	5:ZJ:133:ALA:HB1	1.81	0.62
1:AT:77:VAL:HG21	2:Bp:32:LEU:HD23	1.81	0.62
1:AV:261:ILE:HD12	1:AV:312:LEU:HD23	1.80	0.62
1:BL:77:VAL:HG21	2:CT:32:LEU:HD23	1.79	0.62
2:Cc:63:PRO:HB2	2:Cc:85:GLU:HG2	1.82	0.62
2:Cg:63:PRO:HB2	2:Cg:85:GLU:HG2	1.80	0.62
1:Fu:66:THR:OG1	2:HT:58:LYS:NZ	2.32	0.62
1:Fz:77:VAL:HG21	2:HF:32:LEU:HD23	1.80	0.62
4:Ho:161:ILE:HA	4:Ho:186:ASN:HA	1.81	0.62
1:KA:196:GLU:OE1	1:KA:265:ASN:ND2	2.32	0.62
1:Ki:77:VAL:HG21	2:MC:32:LEU:HD23	1.81	0.62
1:Kj:66:THR:OG1	2:MI:58:LYS:NZ	2.32	0.62
1:Ko:80:ASN:ND2	1:Ko:153:PRO:O	2.31	0.62
2:MH:180:ASN:O	2:MI:180:ASN:ND2	2.31	0.62
1:Op:196:GLU:OE1	1:Op:265:ASN:ND2	2.32	0.62
1:Ot:80:ASN:ND2	1:Ot:153:PRO:O	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pf:261:ILE:HD12	1:Pf:312:LEU:HD23	1.80	0.62
1:Pq:152:LEU:HD21	4:Rb:112:SER:HA	1.80	0.62
2:Qv:63:PRO:HB2	2:Qv:85:GLU:HG2	1.81	0.62
1:Te:165:ILE:HD13	1:Te:191:LEU:HD23	1.81	0.62
2:VZ:167:THR:HG22	2:VZ:168:GLU:H	1.64	0.62
4:WH:77:ILE:HG13	4:WH:91:PRO:HB3	1.79	0.62
6:YB:298:LYS:HB2	6:YC:177:TYR:CZ	2.34	0.62
5:eI:98:PHE:HB3	5:eI:117:GLN:HE22	1.64	0.62
2:Bx:63:PRO:HB2	2:Bx:85:GLU:HG2	1.82	0.62
4:Cq:73:VAL:HG21	4:Cq:117:ILE:HD13	1.81	0.62
4:DI:73:VAL:HG21	4:DI:117:ILE:HG12	1.81	0.62
2:Ge:180:ASN:O	4:Hc:186:ASN:ND2	2.28	0.62
1:KO:89:ARG:HH21	1:KO:112:LEU:HD21	1.63	0.62
1:Oo:261:ILE:HD12	1:Oo:312:LEU:HD23	1.80	0.62
1:Op:261:ILE:HD12	1:Op:312:LEU:HD23	1.82	0.62
1:PS:87:LYS:NZ	2:Ql:53:THR:O	2.27	0.62
2:Qf:23:LYS:N	2:Qf:67:TYR:OH	2.31	0.62
1:Te:261:ILE:HD12	1:Te:312:LEU:HD23	1.82	0.62
1:UN:164:GLN:HE22	1:UN:308:ARG:HA	1.63	0.62
2:Uy:153:LYS:O	2:Uy:181:ARG:NE	2.26	0.62
4:WG:43:VAL:HG11	4:WG:170:LYS:HD3	1.81	0.62
5:Yg:103:LEU:HD12	5:Yg:113:ILE:HG23	1.80	0.62
5:ZO:110:LEU:O	5:ZO:114:MET:HG2	1.99	0.62
5:eo:86:ILE:HD11	5:eo:118:ARG:HE	1.61	0.62
1:Am:163:GLU:HB2	4:Cw:31:LEU:HD22	1.82	0.62
2:CX:77:PHE:HB2	4:DE:138:LYS:HE2	1.82	0.62
4:Hx:73:VAL:HG21	4:Hx:117:ILE:HG12	1.81	0.62
1:KA:165:ILE:HD13	1:KA:191:LEU:HD23	1.81	0.62
1:Ki:261:ILE:HD12	1:Ki:312:LEU:HD23	1.79	0.62
1:Kj:261:ILE:HD12	1:Kj:312:LEU:HD23	1.80	0.62
1:Kr:194:GLY:HA3	4:Mf:36:ASN:OD1	1.98	0.62
2:LZ:37:ASP:O	2:LZ:41:GLN:NE2	2.32	0.62
1:Om:77:VAL:HG21	2:QI:32:LEU:HD23	1.81	0.62
1:PP:87:LYS:NZ	2:Qg:53:THR:O	2.29	0.62
4:RD:161:ILE:HA	4:RD:186:ASN:HA	1.81	0.62
4:RL:77:ILE:HG13	4:RL:91:PRO:HB3	1.81	0.62
1:UB:100:THR:HG22	1:UB:105:ILE:HG23	1.82	0.62
1:UU:261:ILE:HD12	1:UU:312:LEU:HD23	1.81	0.62
5:YP:80:ALA:HA	5:YT:80:ALA:HB1	1.80	0.62
5:YR:98:PHE:HB3	5:YR:117:GLN:HE22	1.64	0.62
5:Yi:122:VAL:HG11	5:Yi:151:LEU:HD13	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:143:LYS:HA	4:DC:39:ARG:HE	1.64	0.62
2:Bs:58:LYS:HE2	2:Bt:116:ASN:HD21	1.64	0.62
4:Cm:93:VAL:HG21	4:Cm:117:ILE:HD11	1.80	0.62
1:Fo:80:ASN:ND2	1:Fo:153:PRO:O	2.25	0.62
1:Fu:261:ILE:HD12	1:Fu:312:LEU:HD23	1.80	0.62
1:Fw:261:ILE:HD12	1:Fw:312:LEU:HD23	1.81	0.62
1:GG:87:LYS:NZ	2:HR:53:THR:O	2.31	0.62
2:HG:167:THR:HG22	2:HG:168:GLU:H	1.64	0.62
4:Hk:93:VAL:HG21	4:Hk:117:ILE:HD11	1.81	0.62
1:Jx:77:VAL:HG21	2:LT:32:LEU:HD23	1.81	0.62
1:Jx:261:ILE:HD12	1:Jx:312:LEU:HD23	1.81	0.62
2:Lg:165:LYS:HE3	2:Lg:168:GLU:HA	1.81	0.62
2:Lv:167:THR:HG22	2:Lv:168:GLU:H	1.64	0.62
1:PA:317:LYS:NZ	1:PA:319:SER:OXT	2.32	0.62
1:Pi:286:ASP:HB2	1:Pi:294:HIS:HB2	1.80	0.62
1:Ps:162:PRO:HG2	2:QQ:31:LEU:HD11	1.82	0.62
4:RO:93:VAL:HG21	4:RO:117:ILE:HD11	1.81	0.62
1:TP:174:LYS:HE2	1:TP:318:GLN:HE21	1.64	0.62
1:Tb:261:ILE:HD12	1:Tb:312:LEU:HD23	1.81	0.62
1:UK:80:ASN:ND2	1:UK:153:PRO:O	2.31	0.62
1:Uh:162:PRO:HG2	2:VF:31:LEU:HD11	1.82	0.62
2:Vo:63:PRO:HB2	2:Vo:85:GLU:HG2	1.80	0.62
5:YZ:103:LEU:HD12	5:YZ:113:ILE:HG23	1.81	0.62
5:Yg:110:LEU:O	5:Yg:114:MET:HG2	1.99	0.62
5:Yu:153:SER:HB2	5:Yv:133:ALA:HB1	1.81	0.62
5:ZK:150:GLN:HB3	5:ZL:134:ILE:HG23	1.80	0.62
5:bp:94:LEU:HD21	5:bp:121:LEU:HD23	1.82	0.62
5:cv:94:LEU:HD21	5:cv:121:LEU:HD23	1.82	0.62
5:dd:94:LEU:HD21	5:dd:121:LEU:HD23	1.82	0.62
5:ds:56:ASN:HB3	5:ea:147:ILE:HG22	1.81	0.62
5:eK:98:PHE:HB3	5:eK:117:GLN:HE22	1.65	0.62
5:eb:94:LEU:HD21	5:eb:121:LEU:HD23	1.82	0.62
1:BF:164:GLN:HE22	1:BF:308:ARG:HA	1.64	0.62
2:CR:167:THR:HG22	2:CR:168:GLU:H	1.64	0.62
1:FD:55:ALA:O	1:FH:86:TYR:OH	2.17	0.62
4:Hn:43:VAL:HG11	4:Hn:170:LYS:HD3	1.81	0.62
1:KZ:80:ASN:ND2	1:KZ:153:PRO:O	2.26	0.62
1:Kt:286:ASP:HB2	1:Kt:294:HIS:HB2	1.81	0.62
4:MW:77:ILE:HG13	4:MW:91:PRO:HB3	1.81	0.62
1:Pa:261:ILE:HD12	1:Pa:312:LEU:HD23	1.81	0.62
1:Pq:261:ILE:HD12	1:Pq:312:LEU:HD23	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QQ:63:PRO:HB2	2:QQ:85:GLU:HG2	1.82	0.62
1:Tb:77:VAL:HG21	2:Ux:32:LEU:HD23	1.81	0.62
1:UY:87:LYS:NZ	2:Vj:53:THR:O	2.26	0.62
2:Un:136:LYS:HD3	2:Un:181:ARG:HH12	1.64	0.62
2:VE:77:PHE:HB2	4:Vz:138:LYS:HE2	1.82	0.62
2:VE:123:LEU:HD21	2:VE:131:VAL:HG21	1.81	0.62
2:Vk:63:PRO:HB2	2:Vk:85:GLU:HG2	1.82	0.62
5:ZD:135:ALA:HB1	5:ZD:143:ILE:HG12	1.82	0.62
5:ZP:123:ARG:HG3	5:ZP:140:ILE:HD12	1.82	0.62
5:bl:94:LEU:HD21	5:bl:121:LEU:HD23	1.82	0.62
1:AW:261:ILE:HD12	1:AW:312:LEU:HD23	1.82	0.62
1:At:100:THR:HG22	1:At:105:ILE:HG23	1.82	0.62
1:BF:66:THR:OG1	2:Ce:58:LYS:NZ	2.32	0.62
1:Jl:174:LYS:HE2	1:Jl:318:GLN:HE21	1.64	0.62
1:KP:77:VAL:HG21	2:Lr:32:LEU:HD23	1.82	0.62
2:La:123:LEU:HD21	2:La:131:VAL:HG21	1.81	0.62
4:Me:26:GLN:NE2	4:Me:28:ASP:OD1	2.33	0.62
4:Me:77:ILE:HG13	4:Me:91:PRO:HB3	1.82	0.62
1:PE:77:VAL:HG21	2:Qg:32:LEU:HD23	1.82	0.62
1:PY:261:ILE:HD12	1:PY:312:LEU:HD23	1.80	0.62
1:Pn:165:ILE:HD13	1:Pn:191:LEU:HD23	1.81	0.62
1:TX:152:LEU:HD21	2:Uy:105:SER:HA	1.81	0.62
1:Tk:107:ASP:OD2	1:Tk:110:ASN:ND2	2.27	0.62
1:Tp:317:LYS:NZ	1:Tp:319:SER:OXT	2.32	0.62
1:UX:286:ASP:HB2	1:UX:294:HIS:HB2	1.80	0.62
1:Ul:87:LYS:NZ	2:VE:53:THR:O	2.26	0.62
2:VF:63:PRO:HB2	2:VF:85:GLU:HG2	1.82	0.62
4:Vy:73:VAL:HG21	4:Vy:117:ILE:HD13	1.81	0.62
4:WH:93:VAL:HG21	4:WH:117:ILE:HD11	1.80	0.62
6:YH:177:TYR:CZ	6:YI:298:LYS:HB2	2.35	0.62
5:YQ:161:LEU:HD22	5:YT:130:GLN:HE21	1.64	0.62
5:ZO:86:ILE:HG22	5:ZO:100:LYS:HD2	1.81	0.62
5:bN:94:LEU:HD21	5:bN:121:LEU:HD23	1.82	0.62
5:cT:94:LEU:HD21	5:cT:121:LEU:HD23	1.82	0.62
1:BG:261:ILE:HD12	1:BG:312:LEU:HD23	1.81	0.62
1:BL:80:ASN:ND2	1:BL:153:PRO:O	2.25	0.62
4:Cv:93:VAL:HG21	4:Cv:117:ILE:HD11	1.81	0.62
1:GJ:165:ILE:HD13	1:GJ:191:LEU:HD23	1.81	0.62
1:Kj:164:GLN:HE22	1:Kj:308:ARG:HA	1.63	0.62
1:PY:66:THR:OG1	2:Qx:58:LYS:NZ	2.32	0.62
2:Qs:77:PHE:HB2	4:RY:138:LYS:HE2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Qt:63:PRO:HB2	2:Qt:85:GLU:HG2	1.82	0.62
4:RS:93:VAL:HG21	4:RS:117:ILE:HD11	1.80	0.62
1:UM:77:VAL:HG21	2:Vg:32:LEU:HD23	1.81	0.62
1:Ue:77:VAL:HG21	2:Vm:32:LEU:HD23	1.81	0.62
1:Ui:89:ARG:HH21	1:Ui:112:LEU:HD21	1.63	0.62
4:WD:93:VAL:HG21	4:WD:117:ILE:HD11	1.81	0.62
6:Xy:196:SER:O	6:Xy:199:GLN:HG3	2.00	0.62
6:YD:177:TYR:CZ	6:YH:298:LYS:HB2	2.35	0.62
6:YD:298:LYS:HB2	6:YE:177:TYR:CZ	2.35	0.62
5:YK:79:GLU:HA	5:YK:82:ARG:HE	1.64	0.62
5:YY:94:LEU:HD21	5:YY:121:LEU:HD23	1.82	0.62
5:Yg:119:ARG:NH1	5:Yg:141:SER:O	2.33	0.62
5:Yn:80:ALA:HB1	5:Yo:80:ALA:HB2	1.81	0.62
5:af:94:LEU:HD21	5:af:121:LEU:HD23	1.82	0.62
5:cX:94:LEU:HD21	5:cX:121:LEU:HD23	1.82	0.62
2:CC:165:LYS:HE3	2:CC:168:GLU:HA	1.81	0.62
4:DJ:36:ASN:HD22	1:GM:194:GLY:HA3	1.64	0.62
1:Fr:152:LEU:HD21	4:Hr:112:SER:HA	1.82	0.62
1:Ft:77:VAL:HG21	2:HN:32:LEU:HD23	1.80	0.62
1:Fu:286:ASP:HB2	1:Fu:294:HIS:HB2	1.82	0.62
2:Lb:63:PRO:HB2	2:Lb:85:GLU:HG2	1.82	0.62
4:Ma:161:ILE:HA	4:Ma:186:ASN:HA	1.79	0.62
1:Pw:59:THR:O	4:Rc:61:ASN:ND2	2.33	0.62
1:UL:143:LYS:HA	4:WK:39:ARG:HE	1.65	0.62
6:Xx:177:TYR:CZ	6:YG:298:LYS:HB2	2.35	0.62
5:YN:98:PHE:HB3	5:YN:117:GLN:HE22	1.64	0.62
5:ZI:103:LEU:HD12	5:ZI:113:ILE:HG23	1.81	0.62
5:Zv:94:LEU:HD21	5:Zv:121:LEU:HD23	1.82	0.62
5:Zx:94:LEU:HD21	5:Zx:121:LEU:HD23	1.82	0.62
5:bF:94:LEU:HD21	5:bF:121:LEU:HD23	1.82	0.62
5:bv:94:LEU:HD21	5:bv:121:LEU:HD23	1.82	0.62
4:DA:77:ILE:HG13	4:DA:91:PRO:HB3	1.82	0.62
1:Eq:215:LYS:HE2	1:Eu:181:PHE:HE2	1.65	0.62
1:Ew:174:LYS:HE2	1:Ew:318:GLN:HE21	1.64	0.62
1:FL:165:ILE:HD13	1:FL:191:LEU:HD23	1.81	0.62
1:Fu:164:GLN:HE22	1:Fu:308:ARG:HA	1.63	0.62
2:HR:63:PRO:HB2	2:HR:85:GLU:HG2	1.81	0.62
4:HZ:161:ILE:HA	4:HZ:186:ASN:HA	1.81	0.62
1:Jf:215:LYS:HE2	1:Jj:181:PHE:HE2	1.65	0.62
1:Jf:261:ILE:HD12	1:Jf:312:LEU:HD23	1.82	0.62
1:Kt:165:ILE:HD13	1:Kt:191:LEU:HD23	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LA:77:VAL:HG21	2:MI:32:LEU:HD23	1.81	0.62
2:ME:63:PRO:HB2	2:ME:85:GLU:HG2	1.82	0.62
4:MO:161:ILE:HA	4:MO:186:ASN:HA	1.81	0.62
4:Mc:43:VAL:HG11	4:Mc:170:LYS:HD3	1.81	0.62
4:Md:93:VAL:HG21	4:Md:117:ILE:HD11	1.80	0.62
4:Mm:73:VAL:HG21	4:Mm:117:ILE:HG12	1.81	0.62
1:PM:100:THR:HG22	1:PM:105:ILE:HG23	1.82	0.62
1:Pl:107:ASP:OD2	1:Pl:110:ASN:ND2	2.25	0.62
2:QS:63:PRO:HB2	2:QS:85:GLU:HG2	1.80	0.62
4:RJ:73:VAL:HG21	4:RJ:117:ILE:HD13	1.81	0.62
4:RR:43:VAL:HG11	4:RR:170:LYS:HD3	1.81	0.62
4:WI:26:GLN:NE2	4:WI:28:ASP:OD1	2.33	0.62
4:WI:77:ILE:HG13	4:WI:91:PRO:HB3	1.82	0.62
5:YN:53:LEU:HA	5:YN:57:GLU:HB2	1.80	0.62
5:Ye:126:VAL:HG22	5:Ye:154:LEU:HG	1.82	0.62
5:Yj:103:LEU:HD12	5:Yj:113:ILE:HG23	1.80	0.62
5:Yr:94:LEU:HD23	5:Yr:124:LYS:HD2	1.82	0.62
5:ZF:77:LEU:HD23	5:ZG:79:GLU:HB3	1.82	0.62
5:ZU:110:LEU:O	5:ZU:114:MET:HG2	1.99	0.62
5:aD:94:LEU:HD21	5:aD:121:LEU:HD23	1.82	0.62
5:ah:94:LEU:HD21	5:ah:121:LEU:HD23	1.82	0.62
5:bD:94:LEU:HD21	5:bD:121:LEU:HD23	1.82	0.62
5:bn:94:LEU:HD21	5:bn:121:LEU:HD23	1.82	0.62
5:cN:94:LEU:HD21	5:cN:121:LEU:HD23	1.82	0.62
5:eD:94:LEU:HD21	5:eD:121:LEU:HD23	1.82	0.62
5:eJ:94:LEU:HD21	5:eJ:121:LEU:HD23	1.82	0.62
5:eK:86:ILE:HD11	5:eK:118:ARG:HE	1.64	0.62
5:eL:94:LEU:HD21	5:eL:121:LEU:HD23	1.82	0.62
5:eW:98:PHE:HB3	5:eW:117:GLN:HE22	1.63	0.62
5:fB:94:LEU:HD21	5:fB:121:LEU:HD23	1.82	0.62
5:fr:94:LEU:HD21	5:fr:121:LEU:HD23	1.82	0.62
1:AT:110:ASN:OD1	1:Aa:62:ASN:ND2	2.28	0.61
1:At:75:GLU:HG2	4:Cx:26:GLN:HB3	1.82	0.61
1:BE:77:VAL:HG21	2:CY:32:LEU:HD23	1.81	0.61
2:Bw:123:LEU:HD21	2:Bw:131:VAL:HG21	1.81	0.61
4:Cn:77:ILE:HG13	4:Cn:91:PRO:HB3	1.82	0.61
1:Fa:77:VAL:HG21	2:HC:32:LEU:HD23	1.82	0.61
4:Hp:26:GLN:NE2	4:Hp:28:ASP:OD1	2.33	0.61
1:KS:55:ALA:O	1:KW:86:TYR:OH	2.17	0.61
1:Kr:47:VAL:HG22	1:Kr:76:VAL:HG22	1.82	0.61
2:MG:63:PRO:HB2	2:MG:85:GLU:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RT:26:GLN:NE2	4:RT:28:ASP:OD1	2.33	0.61
4:Rb:73:VAL:HG21	4:Rb:117:ILE:HG12	1.81	0.61
1:UG:286:ASP:HB2	1:UG:294:HIS:HB2	1.82	0.61
1:UP:261:ILE:HD12	1:UP:312:LEU:HD23	1.81	0.61
4:WA:77:ILE:HG13	4:WA:91:PRO:HB3	1.81	0.61
5:YZ:110:LEU:O	5:YZ:114:MET:HG2	1.99	0.61
5:ZX:94:LEU:HD21	5:ZX:121:LEU:HD23	1.82	0.61
5:Zz:94:LEU:HD21	5:Zz:121:LEU:HD23	1.82	0.61
5:ds:86:ILE:HD11	5:ds:118:ARG:HE	1.63	0.61
5:eC:58:ARG:NH2	5:el:146:GLU:OE1	2.33	0.61
5:fR:94:LEU:HD21	5:fR:121:LEU:HD23	1.82	0.61
1:AB:215:LYS:HE2	1:AF:181:PHE:HE2	1.65	0.61
1:Bb:86:TYR:OH	1:Bd:55:ALA:O	2.18	0.61
2:Bf:136:LYS:HD3	2:Bf:181:ARG:HH12	1.64	0.61
2:Bv:37:ASP:O	2:Bv:41:GLN:NE2	2.32	0.61
4:Ck:161:ILE:HA	4:Ck:186:ASN:HA	1.81	0.61
1:Fi:100:THR:HG22	1:Fi:105:ILE:HG23	1.82	0.61
1:GP:89:ARG:HH21	1:GP:112:LEU:HD21	1.63	0.61
2:GU:136:LYS:HD3	2:GU:181:ARG:HH12	1.64	0.61
2:Gk:37:ASP:O	2:Gk:41:GLN:NE2	2.32	0.61
4:Hp:77:ILE:HG13	4:Hp:91:PRO:HB3	1.82	0.61
1:KA:261:ILE:HD12	1:KA:312:LEU:HD23	1.82	0.61
1:Kg:152:LEU:HD21	4:Mg:112:SER:HA	1.80	0.61
2:LJ:136:LYS:HD3	2:LJ:181:ARG:HH12	1.64	0.61
2:Lc:167:THR:HG22	2:Lc:168:GLU:H	1.65	0.61
1:Oa:174:LYS:HE2	1:Oa:318:GLN:HE21	1.64	0.61
2:Vi:63:PRO:HB2	2:Vi:85:GLU:HG2	1.82	0.61
6:Xz:298:LYS:HB2	6:YA:177:TYR:CZ	2.35	0.61
6:YE:298:LYS:HB2	6:YF:177:TYR:CZ	2.35	0.61
5:YP:110:LEU:O	5:YP:114:MET:HG2	2.00	0.61
5:aV:94:LEU:HD21	5:aV:121:LEU:HD23	1.82	0.61
5:cV:94:LEU:HD21	5:cV:121:LEU:HD23	1.83	0.61
5:dD:94:LEU:HD21	5:dD:121:LEU:HD23	1.82	0.61
5:db:94:LEU:HD21	5:db:121:LEU:HD23	1.82	0.61
5:dl:94:LEU:HD21	5:dl:121:LEU:HD23	1.82	0.61
5:eA:86:ILE:HD11	5:eA:118:ARG:HE	1.65	0.61
5:fk:98:PHE:HB3	5:fk:117:GLN:HE22	1.65	0.61
5:ft:94:LEU:HD21	5:ft:121:LEU:HD23	1.82	0.61
1:AA:244:ARG:NH1	1:Ep:210:SER:OG	2.33	0.61
1:Ak:89:ARG:HH21	1:Ak:112:LEU:HD21	1.63	0.61
1:Ay:286:ASP:HB2	1:Ay:294:HIS:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:77:VAL:HG21	2:CM:32:LEU:HD23	1.82	0.61
1:BF:286:ASP:HB2	1:BF:294:HIS:HB2	1.82	0.61
2:Gm:63:PRO:HB2	2:Gm:85:GLU:HG2	1.82	0.61
1:KL:317:LYS:NZ	1:KL:319:SER:OXT	2.32	0.61
1:Ky:165:ILE:HD13	1:Ky:191:LEU:HD23	1.81	0.61
1:OT:244:ARG:NH1	1:TI:210:SER:OG	2.33	0.61
2:QN:77:PHE:HB2	4:RJ:138:LYS:HE2	1.80	0.61
1:Ti:77:VAL:HG21	2:VB:32:LEU:HD23	1.83	0.61
1:Tt:77:VAL:HG21	2:VV:32:LEU:HD23	1.82	0.61
2:Vq:165:LYS:HE3	2:Vq:168:GLU:HA	1.83	0.61
6:Xx:198:VAL:HG21	6:YI:272:ALA:HB2	1.82	0.61
6:YB:177:TYR:CZ	6:YF:298:LYS:HB2	2.35	0.61
5:Ya:110:LEU:O	5:Ya:114:MET:HG2	2.00	0.61
5:ZR:94:LEU:HD21	5:ZR:121:LEU:HD23	1.82	0.61
5:ad:94:LEU:HD21	5:ad:121:LEU:HD23	1.82	0.61
5:al:94:LEU:HD21	5:al:121:LEU:HD23	1.82	0.61
5:dF:94:LEU:HD21	5:dF:121:LEU:HD23	1.82	0.61
5:du:147:ILE:HG13	5:ec:55:ILE:HG23	1.82	0.61
5:eV:94:LEU:HD21	5:eV:121:LEU:HD23	1.82	0.61
5:fD:94:LEU:HD21	5:fD:121:LEU:HD23	1.82	0.61
5:fJ:94:LEU:HD21	5:fJ:121:LEU:HD23	1.83	0.61
5:fj:94:LEU:HD21	5:fj:121:LEU:HD23	1.82	0.61
5:fl:94:LEU:HD21	5:fl:121:LEU:HD23	1.83	0.61
1:Az:87:LYS:NZ	2:CS:53:THR:O	2.27	0.61
1:Bc:87:LYS:NZ	2:Bx:53:THR:O	2.29	0.61
1:Bd:87:LYS:NZ	2:Bw:53:THR:O	2.27	0.61
1:FW:317:LYS:NZ	1:FW:319:SER:OXT	2.32	0.61
1:FZ:89:ARG:HH21	1:FZ:112:LEU:HD21	1.63	0.61
1:Fi:75:GLU:HG2	4:Hm:26:GLN:HB3	1.82	0.61
1:GQ:80:ASN:ND2	1:GQ:153:PRO:O	2.30	0.61
2:Gl:123:LEU:HD21	2:Gl:131:VAL:HG21	1.81	0.61
2:Gn:167:THR:HG22	2:Gn:168:GLU:H	1.65	0.61
2:HP:63:PRO:HB2	2:HP:85:GLU:HG2	1.82	0.61
1:Kl:261:ILE:HD12	1:Kl:312:LEU:HD23	1.81	0.61
4:Mn:41:LYS:HE2	1:Pq:52:PHE:HB3	1.80	0.61
1:Oo:80:ASN:ND2	1:Oo:153:PRO:O	2.30	0.61
1:Pf:259:ILE:HB	1:Pf:314:VAL:HB	1.83	0.61
1:Pt:165:ILE:HD13	1:Pt:191:LEU:HD23	1.83	0.61
2:QE:137:LEU:HD11	2:QE:159:ALA:HB2	1.83	0.61
2:QL:58:LYS:HE2	2:QM:116:ASN:HD21	1.64	0.61
4:RS:161:ILE:HA	4:RS:186:ASN:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Te:196:GLU:OE1	1:Te:265:ASN:ND2	2.32	0.61
2:VK:165:LYS:HE3	2:VK:168:GLU:HA	1.81	0.61
4:Vs:161:ILE:HA	4:Vs:186:ASN:HA	1.81	0.61
6:YB:196:SER:O	6:YB:199:GLN:HG3	2.00	0.61
5:YV:110:LEU:O	5:YV:114:MET:HG2	1.99	0.61
5:Yr:123:ARG:HG3	5:Yr:140:ILE:HD12	1.81	0.61
5:ZD:123:ARG:HG3	5:ZD:140:ILE:HD12	1.81	0.61
5:an:94:LEU:HD21	5:an:121:LEU:HD23	1.82	0.61
5:dn:94:LEU:HD21	5:dn:121:LEU:HD23	1.82	0.61
5:eh:94:LEU:HD21	5:eh:121:LEU:HD23	1.82	0.61
5:fP:94:LEU:HD21	5:fP:121:LEU:HD23	1.82	0.61
5:fz:94:LEU:HD21	5:fz:121:LEU:HD23	1.82	0.61
1:BZ:162:PRO:HG2	2:Bx:31:LEU:HD11	1.82	0.61
3:Cj:197:PRO:HB2	3:Cj:246:GLU:HB3	1.83	0.61
4:DA:26:GLN:NE2	4:DA:28:ASP:OD1	2.33	0.61
4:DC:61:ASN:ND2	1:UY:59:THR:O	2.33	0.61
1:Fp:77:VAL:HG21	2:HB:32:LEU:HD23	1.83	0.61
4:Hf:73:VAL:HG21	4:Hf:117:ILE:HD13	1.81	0.61
1:LD:162:PRO:HG2	2:Lb:31:LEU:HD11	1.82	0.61
2:MM:165:LYS:HE3	2:MM:168:GLU:HA	1.83	0.61
3:MN:197:PRO:HB2	3:MN:246:GLU:HB3	1.83	0.61
4:MQ:77:ILE:HG13	4:MQ:91:PRO:HB3	1.83	0.61
4:MZ:93:VAL:HG21	4:MZ:117:ILE:HD11	1.81	0.61
1:OU:215:LYS:HE2	1:OY:181:PHE:HE2	1.65	0.61
4:RG:77:ILE:HG13	4:RG:91:PRO:HB3	1.82	0.61
1:UA:152:LEU:HD21	2:VU:105:SER:HA	1.83	0.61
1:UZ:87:LYS:NZ	2:Vk:53:THR:O	2.31	0.61
1:Uc:165:ILE:HD13	1:Uc:191:LEU:HD23	1.81	0.61
5:YQ:134:ILE:HD12	5:YT:150:GLN:HG2	1.81	0.61
5:Yp:77:LEU:HD23	5:Yq:79:GLU:HB3	1.81	0.61
5:aF:94:LEU:HD21	5:aF:121:LEU:HD23	1.82	0.61
5:aX:94:LEU:HD21	5:aX:121:LEU:HD23	1.83	0.61
5:bf:94:LEU:HD21	5:bf:121:LEU:HD23	1.82	0.61
5:cz:94:LEU:HD21	5:cz:121:LEU:HD23	1.82	0.61
5:eE:58:ARG:NH2	5:en:146:GLU:OE1	2.34	0.61
5:eZ:94:LEU:HD21	5:eZ:121:LEU:HD23	1.82	0.61
5:ea:98:PHE:HB3	5:ea:117:GLN:HE22	1.65	0.61
5:ed:94:LEU:HD21	5:ed:121:LEU:HD23	1.82	0.61
5:fH:94:LEU:HD21	5:fH:121:LEU:HD23	1.82	0.61
1:Aa:77:VAL:HG21	2:Bt:32:LEU:HD23	1.82	0.61
2:Ca:63:PRO:HB2	2:Ca:85:GLU:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gr:165:LYS:HE3	2:Gr:168:GLU:HA	1.81	0.61
2:LT:180:ASN:O	4:MR:186:ASN:ND2	2.28	0.61
2:Li:137:LEU:HD11	2:Li:159:ALA:HB2	1.83	0.61
2:Lu:165:LYS:HE3	2:Lu:168:GLU:HA	1.83	0.61
1:PO:107:ASP:OD2	1:PO:110:ASN:ND2	2.32	0.61
1:Pg:47:VAL:HG22	1:Pg:76:VAL:HG22	1.82	0.61
2:RB:165:LYS:HE3	2:RB:168:GLU:HA	1.83	0.61
4:RT:77:ILE:HG13	4:RT:91:PRO:HB3	1.82	0.61
1:Tf:77:VAL:HG21	2:VE:32:LEU:HD23	1.83	0.61
1:UV:47:VAL:HG22	1:UV:76:VAL:HG22	1.82	0.61
2:VO:124:LYS:HE2	2:VO:126:ASP:HB2	1.82	0.61
5:Yj:86:ILE:HD11	5:Yj:118:ARG:HE	1.66	0.61
5:ZV:94:LEU:HD21	5:ZV:121:LEU:HD23	1.82	0.61
5:Zn:94:LEU:HD21	5:Zn:121:LEU:HD23	1.82	0.61
5:Zp:94:LEU:HD21	5:Zp:121:LEU:HD23	1.82	0.61
5:bL:94:LEU:HD21	5:bL:121:LEU:HD23	1.82	0.61
5:bP:94:LEU:HD21	5:bP:121:LEU:HD23	1.82	0.61
5:cd:94:LEU:HD21	5:cd:121:LEU:HD23	1.82	0.61
5:dB:94:LEU:HD21	5:dB:121:LEU:HD23	1.82	0.61
5:ej:94:LEU:HD21	5:ej:121:LEU:HD23	1.83	0.61
5:fL:94:LEU:HD21	5:fL:121:LEU:HD23	1.83	0.61
5:fQ:110:LEU:O	5:fQ:114:MET:HG2	2.01	0.61
5:fS:110:LEU:O	5:fS:114:MET:HG2	2.01	0.61
5:fU:110:LEU:O	5:fU:114:MET:HG2	2.01	0.61
5:fW:110:LEU:O	5:fW:114:MET:HG2	2.01	0.61
5:fa:110:LEU:O	5:fa:114:MET:HG2	2.01	0.61
5:fc:110:LEU:O	5:fc:114:MET:HG2	2.01	0.61
5:fd:94:LEU:HD21	5:fd:121:LEU:HD23	1.82	0.61
5:fp:94:LEU:HD21	5:fp:121:LEU:HD23	1.82	0.61
1:AW:165:ILE:HD13	1:AW:191:LEU:HD23	1.81	0.61
1:Al:77:VAL:HG21	2:CN:32:LEU:HD23	1.82	0.61
1:As:152:LEU:HD21	2:CM:105:SER:HA	1.83	0.61
1:BQ:87:LYS:NZ	2:Cb:53:THR:O	2.26	0.61
2:Bs:137:LEU:HD11	2:Bs:159:ALA:HB2	1.82	0.61
1:FL:261:ILE:HD12	1:FL:312:LEU:HD23	1.82	0.61
1:FM:77:VAL:HG21	2:Gl:32:LEU:HD23	1.83	0.61
1:GP:165:ILE:HD13	1:GP:191:LEU:HD23	1.83	0.61
2:Gh:137:LEU:HD11	2:Gh:159:ALA:HB2	1.82	0.61
2:HS:180:ASN:O	2:HT:180:ASN:ND2	2.31	0.61
4:Hb:77:ILE:HG13	4:Hb:91:PRO:HB3	1.82	0.61
1:KW:152:LEU:HD21	2:Lq:105:SER:HA	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kj:286:ASP:HB2	1:Kj:294:HIS:HB2	1.82	0.61
2:Py:136:LYS:HD3	2:Py:181:ARG:HH12	1.64	0.61
2:QR:167:THR:HG22	2:QR:168:GLU:H	1.65	0.61
2:QZ:124:LYS:HE2	2:QZ:126:ASP:HB2	1.82	0.61
2:Qo:167:THR:HG22	2:Qo:168:GLU:H	1.66	0.61
2:Qw:54:SER:HB2	2:Qx:58:LYS:HZ3	1.63	0.61
5:Rv:193:ASN:CG	5:ev:97:HIS:ND1	2.59	0.61
1:Tw:55:ALA:O	1:UA:86:TYR:OH	2.17	0.61
1:UU:259:ILE:HB	1:UU:314:VAL:HB	1.83	0.61
2:Ux:180:ASN:O	4:Vv:186:ASN:ND2	2.28	0.61
4:Vu:77:ILE:HG13	4:Vu:91:PRO:HB3	1.82	0.61
4:Vv:77:ILE:HG13	4:Vv:91:PRO:HB3	1.82	0.61
5:Yh:103:LEU:HD12	5:Yh:113:ILE:HG23	1.81	0.61
5:Yq:103:LEU:HD12	5:Yq:113:ILE:HG23	1.82	0.61
5:ax:94:LEU:HD21	5:ax:121:LEU:HD23	1.82	0.61
5:bx:94:LEU:HD21	5:bx:121:LEU:HD23	1.82	0.61
5:cL:94:LEU:HD21	5:cL:121:LEU:HD23	1.82	0.61
5:cx:94:LEU:HD21	5:cx:121:LEU:HD23	1.82	0.61
5:dg:98:PHE:HB3	5:dg:117:GLN:HE22	1.65	0.61
5:eF:94:LEU:HD21	5:eF:121:LEU:HD23	1.82	0.61
5:eT:94:LEU:HD21	5:eT:121:LEU:HD23	1.82	0.61
5:es:110:LEU:O	5:es:114:MET:HG2	2.01	0.61
5:fO:110:LEU:O	5:fO:114:MET:HG2	2.01	0.61
1:AW:196:GLU:OE1	1:AW:265:ASN:ND2	2.32	0.61
1:Ba:89:ARG:HH21	1:Ba:112:LEU:HD21	1.63	0.61
1:GL:77:VAL:HG21	2:HT:32:LEU:HD23	1.81	0.61
2:Gh:58:LYS:HE2	2:Gi:116:ASN:HD21	1.64	0.61
4:Hh:77:ILE:HG13	4:Hh:91:PRO:HB3	1.81	0.61
4:Hl:69:TYR:HB2	4:Hl:108:ILE:HD12	1.83	0.61
1:LF:80:ASN:ND2	1:LF:153:PRO:O	2.30	0.61
4:Mn:73:VAL:HG21	4:Mn:117:ILE:HD13	1.83	0.61
2:QX:137:LEU:HD11	2:QX:159:ALA:HB2	1.83	0.61
1:Te:80:ASN:ND2	1:Te:153:PRO:O	2.34	0.61
5:bV:94:LEU:HD21	5:bV:121:LEU:HD23	1.82	0.61
5:cP:94:LEU:HD21	5:cP:121:LEU:HD23	1.82	0.61
5:cn:94:LEU:HD21	5:cn:121:LEU:HD23	1.82	0.61
5:eE:98:PHE:HB3	5:eE:117:GLN:HE22	1.66	0.61
5:eG:147:ILE:HG13	5:eo:55:ILE:HG23	1.81	0.61
5:ee:98:PHE:HB3	5:ee:117:GLN:HE22	1.66	0.61
5:eu:110:LEU:O	5:eu:114:MET:HG2	2.01	0.61
5:fY:110:LEU:O	5:fY:114:MET:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fs:98:PHE:HB3	5:fs:117:GLN:HE22	1.65	0.61
5:fx:94:LEU:HD21	5:fx:121:LEU:HD23	1.82	0.61
5:gC:110:LEU:O	5:gC:114:MET:HG2	2.01	0.61
1:BU:80:ASN:ND2	1:BU:153:PRO:O	2.24	0.61
1:BW:77:VAL:HG21	2:Ce:32:LEU:HD23	1.81	0.61
2:Bq:155:VAL:O	2:Bq:181:ARG:NH2	2.34	0.61
2:Ci:165:LYS:HE3	2:Ci:168:GLU:HA	1.83	0.61
4:Cr:69:TYR:HB2	4:Cr:108:ILE:HD12	1.83	0.61
4:Cw:69:TYR:HB2	4:Cw:108:ILE:HD12	1.83	0.61
1:FT:65:ASN:ND2	2:Gs:57:ASP:O	2.34	0.61
1:Fz:261:ILE:HD12	1:Fz:312:LEU:HD23	1.83	0.61
1:GC:47:VAL:HG22	1:GC:76:VAL:HG22	1.82	0.61
1:KI:65:ASN:ND2	2:Lh:57:ASP:O	2.34	0.61
1:KX:100:THR:HG22	1:KX:105:ILE:HG23	1.82	0.61
1:Kx:308:ARG:HH21	2:MK:31:LEU:HB2	1.65	0.61
4:Md:161:ILE:HA	4:Md:186:ASN:HA	1.81	0.61
1:OU:261:ILE:HD12	1:OU:312:LEU:HD23	1.82	0.61
1:Op:165:ILE:HD13	1:Op:191:LEU:HD23	1.81	0.61
1:Pg:194:GLY:HA3	4:RU:36:ASN:OD1	1.99	0.61
1:Pi:165:ILE:HD13	1:Pi:191:LEU:HD23	1.82	0.61
2:QL:137:LEU:HD11	2:QL:159:ALA:HB2	1.82	0.61
1:Ug:174:LYS:O	1:Ug:212:LYS:NZ	2.34	0.61
2:Vd:167:THR:HG22	2:Vd:168:GLU:H	1.66	0.61
5:YQ:53:LEU:N	5:YQ:56:ASN:OD1	2.34	0.61
5:Yc:62:GLU:CG	5:ZG:106:LYS:HD3	2.28	0.61
5:ZL:87:ASP:HB2	5:ZL:100:LYS:HE2	1.83	0.61
5:bH:94:LEU:HD21	5:bH:121:LEU:HD23	1.82	0.61
5:bd:94:LEU:HD21	5:bd:121:LEU:HD23	1.82	0.61
5:bj:94:LEU:HD21	5:bj:121:LEU:HD23	1.82	0.61
5:cR:94:LEU:HD21	5:cR:121:LEU:HD23	1.82	0.61
5:cb:94:LEU:HD21	5:cb:121:LEU:HD23	1.82	0.61
5:dV:94:LEU:HD21	5:dV:121:LEU:HD23	1.82	0.61
5:dh:94:LEU:HD21	5:dh:121:LEU:HD23	1.82	0.61
5:dj:94:LEU:HD21	5:dj:121:LEU:HD23	1.82	0.61
5:fF:94:LEU:HD21	5:fF:121:LEU:HD23	1.82	0.61
5:fo:98:PHE:HB3	5:fo:117:GLN:HE22	1.65	0.61
5:gB:94:LEU:HD21	5:gB:121:LEU:HD23	1.82	0.61
1:AV:80:ASN:ND2	1:AV:153:PRO:O	2.30	0.61
1:Ae:65:ASN:ND2	2:CD:57:ASP:O	2.34	0.61
1:BH:261:ILE:HD12	1:BH:312:LEU:HD23	1.81	0.61
1:BK:261:ILE:HD12	1:BK:312:LEU:HD23	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Cm:77:ILE:HG13	4:Cm:91:PRO:HB3	1.82	0.61
1:GL:59:THR:O	4:Hw:61:ASN:ND2	2.34	0.61
2:Ga:137:LEU:HD11	2:Ga:159:ALA:HB2	1.83	0.61
2:Gt:137:LEU:HD11	2:Gt:159:ALA:HB2	1.83	0.61
2:HF:165:LYS:HE3	2:HF:168:GLU:HA	1.83	0.61
2:HK:167:THR:HG22	2:HK:168:GLU:H	1.66	0.61
4:Hc:77:ILE:HG13	4:Hc:91:PRO:HB3	1.82	0.61
1:Kv:87:LYS:NZ	2:MG:53:THR:O	2.31	0.61
2:LP:137:LEU:HD11	2:LP:159:ALA:HB2	1.83	0.61
2:Ln:180:ASN:O	4:Mc:186:ASN:ND2	2.34	0.61
1:Ox:65:ASN:ND2	2:QW:57:ASP:O	2.34	0.61
1:PA:286:ASP:HB2	1:PA:294:HIS:HB2	1.83	0.61
1:PL:152:LEU:HD21	2:Qf:105:SER:HA	1.83	0.61
1:PM:75:GLU:HG2	4:RQ:26:GLN:HB3	1.82	0.61
1:Pd:261:ILE:HD12	1:Pd:312:LEU:HD23	1.83	0.61
1:Pm:308:ARG:HH21	2:Qz:31:LEU:HB2	1.65	0.61
2:QP:123:LEU:HD21	2:QP:131:VAL:HG21	1.81	0.61
1:TJ:215:LYS:HE2	1:TN:181:PHE:HE2	1.65	0.61
2:Ut:137:LEU:HD11	2:Ut:159:ALA:HB2	1.83	0.61
2:VK:137:LEU:HD11	2:VK:159:ALA:HB2	1.83	0.61
4:Vz:69:TYR:HB2	4:Vz:108:ILE:HD12	1.83	0.61
4:WQ:73:VAL:HG21	4:WQ:117:ILE:HG12	1.81	0.61
5:Ye:59:ILE:HG13	5:ZA:98:PHE:CE2	2.35	0.61
5:Yl:76:LEU:HD22	5:Ym:76:LEU:HD21	1.82	0.61
5:ZG:103:LEU:HD12	5:ZG:113:ILE:HG23	1.82	0.61
5:Zr:94:LEU:HD21	5:Zr:121:LEU:HD23	1.82	0.61
5:Zt:94:LEU:HD21	5:Zt:121:LEU:HD23	1.82	0.61
5:aH:94:LEU:HD21	5:aH:121:LEU:HD23	1.82	0.61
5:ct:94:LEU:HD21	5:ct:121:LEU:HD23	1.83	0.61
5:eB:94:LEU:HD21	5:eB:121:LEU:HD23	1.82	0.61
5:eE:110:LEU:O	5:eE:114:MET:HG2	2.01	0.61
5:eY:98:PHE:HB3	5:eY:117:GLN:HE22	1.65	0.61
5:fe:110:LEU:O	5:fe:114:MET:HG2	2.01	0.61
5:fq:98:PHE:HB3	5:fq:117:GLN:HE22	1.66	0.61
5:gA:110:LEU:O	5:gA:114:MET:HG2	2.01	0.61
1:BU:165:ILE:HD13	1:BU:191:LEU:HD23	1.81	0.60
4:Cs:77:ILE:HG13	4:Cs:91:PRO:HB3	1.81	0.60
1:Fe:305:LEU:HD11	2:Gv:32:LEU:HG	1.83	0.60
2:Gr:137:LEU:HD11	2:Gr:159:ALA:HB2	1.84	0.60
3:HY:197:PRO:HB2	3:HY:246:GLU:HB3	1.83	0.60
1:KL:286:ASP:HB2	1:KL:294:HIS:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LU:155:VAL:O	2:LU:181:ARG:NH2	2.34	0.60
4:Mh:77:ILE:HG13	4:Mh:91:PRO:HB3	1.83	0.60
1:Oq:77:VAL:HG21	2:QP:32:LEU:HD23	1.83	0.60
1:Ot:77:VAL:HG21	2:QM:32:LEU:HD23	1.83	0.60
2:Qc:180:ASN:O	4:RR:186:ASN:ND2	2.34	0.60
4:RP:69:TYR:HB2	4:RP:108:ILE:HD12	1.83	0.60
2:VG:167:THR:HG22	2:VG:168:GLU:H	1.65	0.60
4:WR:73:VAL:HG21	4:WR:117:ILE:HD13	1.83	0.60
5:YU:112:ASP:OD1	5:YU:115:GLN:NE2	2.34	0.60
5:ZC:103:LEU:HD12	5:ZC:113:ILE:HG23	1.81	0.60
5:ZT:94:LEU:HD21	5:ZT:121:LEU:HD23	1.82	0.60
5:ZZ:94:LEU:HD21	5:ZZ:121:LEU:HD23	1.83	0.60
5:aK:110:LEU:O	5:aK:114:MET:HG2	2.01	0.60
5:aW:110:LEU:O	5:aW:114:MET:HG2	2.01	0.60
5:ab:94:LEU:HD21	5:ab:121:LEU:HD23	1.82	0.60
5:av:94:LEU:HD21	5:av:121:LEU:HD23	1.82	0.60
5:bh:94:LEU:HD21	5:bh:121:LEU:HD23	1.82	0.60
5:bt:94:LEU:HD21	5:bt:121:LEU:HD23	1.83	0.60
5:dI:110:LEU:O	5:dI:114:MET:HG2	2.01	0.60
5:dL:94:LEU:HD21	5:dL:121:LEU:HD23	1.82	0.60
5:dT:94:LEU:HD21	5:dT:121:LEU:HD23	1.82	0.60
5:eA:110:LEU:O	5:eA:114:MET:HG2	2.01	0.60
5:eC:110:LEU:O	5:eC:114:MET:HG2	2.01	0.60
5:eH:94:LEU:HD21	5:eH:121:LEU:HD23	1.82	0.60
5:fM:110:LEU:O	5:fM:114:MET:HG2	2.01	0.60
5:fT:94:LEU:HD21	5:fT:121:LEU:HD23	1.82	0.60
5:fc:98:PHE:HB3	5:fc:117:GLN:HE22	1.65	0.60
5:fn:94:LEU:HD21	5:fn:121:LEU:HD23	1.82	0.60
5:fw:98:PHE:HB3	5:fw:117:GLN:HE22	1.66	0.60
1:Ad:92:LYS:NZ	1:Ad:94:THR:OG1	2.34	0.60
1:Ah:286:ASP:HB2	1:Ah:294:HIS:HB2	1.83	0.60
2:CJ:180:ASN:O	4:Cy:186:ASN:ND2	2.34	0.60
1:GC:59:THR:O	2:HG:61:ASN:ND2	2.34	0.60
1:GO:162:PRO:HG2	2:Gm:31:LEU:HD11	1.81	0.60
1:Ji:261:ILE:HD12	1:Ji:312:LEU:HD23	1.84	0.60
1:KC:79:LEU:HD11	1:KC:305:LEU:HB2	1.84	0.60
1:Ke:77:VAL:HG21	2:Lq:32:LEU:HD23	1.82	0.60
1:Kq:259:ILE:HB	1:Kq:314:VAL:HB	1.83	0.60
1:Kw:107:ASP:OD2	1:Kw:110:ASN:ND2	2.25	0.60
2:LW:137:LEU:HD11	2:LW:159:ALA:HB2	1.82	0.60
1:Op:80:ASN:ND2	1:Op:153:PRO:O	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PV:55:ALA:HB2	4:RW:51:THR:HB	1.82	0.60
1:Pp:77:VAL:HG21	2:Qx:32:LEU:HD23	1.81	0.60
4:RF:77:ILE:HG13	4:RF:91:PRO:HB3	1.82	0.60
1:UB:75:GLU:HG2	4:WF:26:GLN:HB3	1.82	0.60
6:YA:198:VAL:HG21	6:YG:272:ALA:HB2	1.83	0.60
5:Ye:83:ILE:HG21	5:Yf:81:GLU:HG2	1.83	0.60
5:Yw:154:LEU:HD13	5:Yx:134:ILE:HD11	1.81	0.60
5:ZH:94:LEU:HD23	5:ZH:124:LYS:HD2	1.83	0.60
5:ZH:123:ARG:HG3	5:ZH:140:ILE:HD12	1.82	0.60
5:aC:98:PHE:HB3	5:aC:117:GLN:HE22	1.66	0.60
5:aY:110:LEU:O	5:aY:114:MET:HG2	2.01	0.60
5:az:94:LEU:HD21	5:az:121:LEU:HD23	1.82	0.60
5:cM:110:LEU:O	5:cM:114:MET:HG2	2.02	0.60
5:cQ:110:LEU:O	5:cQ:114:MET:HG2	2.01	0.60
5:cf:94:LEU:HD21	5:cf:121:LEU:HD23	1.82	0.60
5:dM:110:LEU:O	5:dM:114:MET:HG2	2.01	0.60
5:dX:94:LEU:HD21	5:dX:121:LEU:HD23	1.82	0.60
5:df:94:LEU:HD21	5:df:121:LEU:HD23	1.83	0.60
5:ds:147:ILE:HD11	5:ea:55:ILE:HG12	1.84	0.60
5:dw:110:LEU:O	5:dw:114:MET:HG2	2.01	0.60
5:fw:110:LEU:O	5:fw:114:MET:HG2	2.01	0.60
5:fy:110:LEU:O	5:fy:114:MET:HG2	2.01	0.60
1:Ao:55:ALA:O	1:As:86:TYR:OH	2.17	0.60
1:BS:107:ASP:OD2	1:BS:110:ASN:ND2	2.25	0.60
1:BX:143:LYS:HA	2:Cg:39:ARG:HE	1.67	0.60
1:FP:77:VAL:HG21	2:Gi:32:LEU:HD23	1.82	0.60
1:FS:92:LYS:NZ	1:FS:94:THR:OG1	2.34	0.60
2:Gf:155:VAL:O	2:Gf:181:ARG:NH2	2.34	0.60
4:Hy:41:LYS:HE2	1:LB:52:PHE:HB3	1.83	0.60
1:Kr:59:THR:O	2:Lv:61:ASN:ND2	2.34	0.60
1:LA:59:THR:O	4:Ml:61:ASN:ND2	2.34	0.60
1:Tp:286:ASP:HB2	1:Tp:294:HIS:HB2	1.83	0.60
1:UN:286:ASP:HB2	1:UN:294:HIS:HB2	1.82	0.60
6:Xx:298:LYS:HB2	6:YI:177:TYR:CZ	2.36	0.60
5:YK:98:PHE:HB3	5:YK:117:GLN:HE22	1.65	0.60
5:YU:110:LEU:O	5:YU:114:MET:HG2	2.01	0.60
5:Yl:131:ILE:HD13	5:Yl:140:ILE:HD11	1.83	0.60
5:aQ:110:LEU:O	5:aQ:114:MET:HG2	2.01	0.60
5:aa:110:LEU:O	5:aa:114:MET:HG2	2.01	0.60
5:br:94:LEU:HD21	5:br:121:LEU:HD23	1.82	0.60
5:cD:94:LEU:HD21	5:cD:121:LEU:HD23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:cO:110:LEU:O	5:cO:114:MET:HG2	2.02	0.60
5:cZ:94:LEU:HD21	5:cZ:121:LEU:HD23	1.82	0.60
5:dJ:94:LEU:HD21	5:dJ:121:LEU:HD23	1.82	0.60
5:dK:110:LEU:O	5:dK:114:MET:HG2	2.01	0.60
5:dQ:110:LEU:O	5:dQ:114:MET:HG2	2.02	0.60
5:ds:110:LEU:O	5:ds:114:MET:HG2	2.02	0.60
5:dy:110:LEU:O	5:dy:114:MET:HG2	2.02	0.60
5:eG:110:LEU:O	5:eG:114:MET:HG2	2.01	0.60
5:el:94:LEU:HD21	5:el:121:LEU:HD23	1.83	0.60
5:er:94:LEU:HD21	5:er:121:LEU:HD23	1.82	0.60
5:ew:110:LEU:O	5:ew:114:MET:HG2	2.01	0.60
5:ez:94:LEU:HD21	5:ez:121:LEU:HD23	1.82	0.60
5:fb:94:LEU:HD21	5:fb:121:LEU:HD23	1.83	0.60
5:fg:110:LEU:O	5:fg:114:MET:HG2	2.01	0.60
1:AA:210:SER:OG	1:TI:244:ARG:NH1	2.33	0.60
1:BZ:80:ASN:ND2	1:BZ:153:PRO:O	2.34	0.60
2:CQ:165:LYS:HE3	2:CQ:168:GLU:HA	1.83	0.60
4:DJ:73:VAL:HG21	4:DJ:117:ILE:HD13	1.82	0.60
1:FI:110:ASN:OD1	1:FP:62:ASN:ND2	2.28	0.60
1:GO:80:ASN:ND2	1:GO:153:PRO:O	2.35	0.60
2:Gy:180:ASN:O	4:Hn:186:ASN:ND2	2.34	0.60
2:LW:58:LYS:HE2	2:LX:116:ASN:HD21	1.64	0.60
2:Lz:167:THR:HG22	2:Lz:168:GLU:H	1.66	0.60
2:QV:165:LYS:HE3	2:QV:168:GLU:HA	1.81	0.60
2:Qq:77:PHE:HB2	4:RX:138:LYS:HE2	1.84	0.60
4:RW:77:ILE:HG13	4:RW:91:PRO:HB3	1.84	0.60
4:RX:26:GLN:NE2	4:RX:28:ASP:OD1	2.34	0.60
1:Uh:164:GLN:HE22	1:Uh:308:ARG:HA	1.67	0.60
6:Xy:177:TYR:CZ	6:YC:298:LYS:HB2	2.36	0.60
5:YP:112:ASP:OD1	5:YP:115:GLN:NE2	2.34	0.60
5:Yq:110:LEU:O	5:Yq:114:MET:HG2	2.02	0.60
5:Yx:94:LEU:HD23	5:Yx:124:LYS:HD2	1.84	0.60
5:Zf:94:LEU:HD21	5:Zf:121:LEU:HD23	1.82	0.60
5:Zy:98:PHE:HB3	5:Zy:117:GLN:HE22	1.66	0.60
5:aP:94:LEU:HD21	5:aP:121:LEU:HD23	1.82	0.60
5:aU:110:LEU:O	5:aU:114:MET:HG2	2.02	0.60
5:aZ:94:LEU:HD21	5:aZ:121:LEU:HD23	1.83	0.60
5:bB:94:LEU:HD21	5:bB:121:LEU:HD23	1.82	0.60
5:bJ:94:LEU:HD21	5:bJ:121:LEU:HD23	1.82	0.60
5:bX:94:LEU:HD21	5:bX:121:LEU:HD23	1.82	0.60
5:dG:110:LEU:O	5:dG:114:MET:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dH:94:LEU:HD21	5:dH:121:LEU:HD23	1.82	0.60
5:dq:110:LEU:O	5:dq:114:MET:HG2	2.02	0.60
5:du:110:LEU:O	5:du:114:MET:HG2	2.02	0.60
5:ep:94:LEU:HD21	5:ep:121:LEU:HD23	1.82	0.60
5:et:94:LEU:HD21	5:et:121:LEU:HD23	1.83	0.60
5:ev:94:LEU:HD21	5:ev:121:LEU:HD23	1.82	0.60
5:fh:94:LEU:HD21	5:fh:121:LEU:HD23	1.82	0.60
1:AX:77:VAL:HG21	2:Bw:32:LEU:HD23	1.83	0.60
1:Ah:261:ILE:HD12	1:Ah:312:LEU:HD23	1.83	0.60
1:Ay:87:LYS:NZ	4:DA:53:THR:O	2.33	0.60
1:BM:259:ILE:HB	1:BM:314:VAL:HB	1.83	0.60
1:BZ:164:GLN:HE22	1:BZ:308:ARG:HA	1.67	0.60
2:CN:37:ASP:O	2:CN:41:GLN:NE2	2.35	0.60
2:CV:167:THR:HG22	2:CV:168:GLU:H	1.66	0.60
1:FL:196:GLU:OE1	1:FL:265:ASN:ND2	2.32	0.60
2:HX:165:LYS:HE3	2:HX:168:GLU:HA	1.83	0.60
1:KA:80:ASN:ND2	1:KA:153:PRO:O	2.34	0.60
2:LY:77:PHE:HB2	4:MU:138:LYS:HE2	1.83	0.60
1:OX:261:ILE:HD12	1:OX:312:LEU:HD23	1.83	0.60
1:Ow:92:LYS:NZ	1:Ow:94:THR:OG1	2.34	0.60
1:PI:305:LEU:HD11	2:QZ:32:LEU:HG	1.83	0.60
1:PV:152:LEU:HD21	4:RV:112:SER:HA	1.81	0.60
1:Ps:80:ASN:ND2	1:Ps:153:PRO:O	2.35	0.60
1:Pu:80:ASN:ND2	1:Pu:153:PRO:O	2.30	0.60
4:RK:69:TYR:HB2	4:RK:108:ILE:HD12	1.83	0.60
1:Tn:107:ASP:OD2	1:Tn:110:ASN:ND2	2.34	0.60
1:UX:165:ILE:HD13	1:UX:191:LEU:HD23	1.82	0.60
1:Ub:308:ARG:HH21	2:Vo:31:LEU:HB2	1.65	0.60
1:Uf:143:LYS:HA	2:Vo:39:ARG:HE	1.66	0.60
1:Ul:59:THR:O	4:WR:61:ASN:ND2	2.34	0.60
6:YA:298:LYS:HB2	6:YG:177:TYR:CZ	2.36	0.60
6:YH:192:TYR:HE2	6:YH:197:LEU:HD13	1.67	0.60
5:YQ:110:LEU:O	5:YQ:114:MET:HG2	2.02	0.60
5:Yc:110:LEU:O	5:Yc:114:MET:HG2	2.00	0.60
5:Ys:110:LEU:O	5:Ys:114:MET:HG2	2.02	0.60
5:ZB:94:LEU:HD23	5:ZB:124:LYS:HD2	1.83	0.60
5:ZK:103:LEU:HD12	5:ZK:113:ILE:HG23	1.83	0.60
5:Zd:94:LEU:HD21	5:Zd:121:LEU:HD23	1.82	0.60
5:aM:110:LEU:O	5:aM:114:MET:HG2	2.01	0.60
5:aT:94:LEU:HD21	5:aT:121:LEU:HD23	1.82	0.60
5:cF:94:LEU:HD21	5:cF:121:LEU:HD23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:cJ:94:LEU:HD21	5:cJ:121:LEU:HD23	1.82	0.60
5:cK:110:LEU:O	5:cK:114:MET:HG2	2.02	0.60
5:co:110:LEU:O	5:co:114:MET:HG2	2.02	0.60
5:dE:110:LEU:O	5:dE:114:MET:HG2	2.01	0.60
5:dN:94:LEU:HD21	5:dN:121:LEU:HD23	1.82	0.60
5:dk:58:ARG:NH2	5:eT:146:GLU:OE1	2.35	0.60
5:eM:110:LEU:O	5:eM:114:MET:HG2	2.01	0.60
5:ec:98:PHE:HB3	5:ec:117:GLN:HE22	1.66	0.60
5:ee:103:LEU:HD12	5:ee:113:ILE:HG23	1.82	0.60
5:fY:98:PHE:HB3	5:fY:117:GLN:HE22	1.65	0.60
5:ff:94:LEU:HD21	5:ff:121:LEU:HD23	1.83	0.60
5:fu:98:PHE:HB3	5:fu:117:GLN:HE22	1.66	0.60
5:fu:110:LEU:O	5:fu:114:MET:HG2	2.01	0.60
5:fv:94:LEU:HD21	5:fv:121:LEU:HD23	1.82	0.60
1:AR:59:THR:HG1	1:TP:149:LYS:HZ1	1.48	0.60
1:AY:41:MET:HE2	1:AY:83:LYS:H	1.67	0.60
1:AY:79:LEU:HD11	1:AY:305:LEU:HB2	1.84	0.60
1:BO:165:ILE:HD13	1:BO:191:LEU:HD23	1.83	0.60
1:BP:165:ILE:HD13	1:BP:191:LEU:HD23	1.82	0.60
2:Bl:22:MET:HE3	2:Bl:25:PRO:HB3	1.84	0.60
4:DE:26:GLN:NE2	4:DE:28:ASP:OD1	2.34	0.60
1:Et:59:THR:O	4:Ha:61:ASN:ND2	2.35	0.60
1:FA:77:VAL:HG21	2:Gk:32:LEU:HD23	1.83	0.60
4:Hs:77:ILE:HG13	4:Hs:91:PRO:HB3	1.83	0.60
1:Ji:59:THR:O	4:MP:61:ASN:ND2	2.35	0.60
1:KP:307:THR:HG22	2:Lr:32:LEU:HB2	1.84	0.60
4:MU:73:VAL:HG21	4:MU:117:ILE:HD13	1.82	0.60
4:Mi:26:GLN:NE2	4:Mi:28:ASP:OD1	2.34	0.60
1:Or:41:MET:HE2	1:Or:83:LYS:H	1.67	0.60
1:Ov:162:PRO:HG2	2:QU:31:LEU:HD11	1.84	0.60
1:PY:286:ASP:HB2	1:PY:294:HIS:HB2	1.82	0.60
2:QV:137:LEU:HD11	2:QV:159:ALA:HB2	1.83	0.60
2:Qj:165:LYS:HE3	2:Qj:168:GLU:HA	1.83	0.60
3:RC:197:PRO:HB2	3:RC:246:GLU:HB3	1.83	0.60
1:Tz:13:VAL:HG11	1:Tz:103:SER:HA	1.83	0.60
1:UD:107:ASP:OD2	1:UD:110:ASN:ND2	2.32	0.60
1:UK:152:LEU:HD21	4:WK:112:SER:HA	1.84	0.60
1:Ue:79:LEU:HD11	1:Ue:305:LEU:HB2	1.84	0.60
3:Vr:197:PRO:HB2	3:Vr:246:GLU:HB3	1.83	0.60
5:Ym:98:PHE:HB3	5:Ym:117:GLN:HE22	1.66	0.60
5:Ym:110:LEU:O	5:Ym:114:MET:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:aL:94:LEU:HD21	5:aL:121:LEU:HD23	1.82	0.60
5:aN:94:LEU:HD21	5:aN:121:LEU:HD23	1.82	0.60
5:aS:110:LEU:O	5:aS:114:MET:HG2	2.02	0.60
5:as:110:LEU:O	5:as:114:MET:HG2	2.02	0.60
5:bS:110:LEU:O	5:bS:114:MET:HG2	2.02	0.60
5:bT:94:LEU:HD21	5:bT:121:LEU:HD23	1.82	0.60
5:cS:110:LEU:O	5:cS:114:MET:HG2	2.01	0.60
5:cp:94:LEU:HD21	5:cp:121:LEU:HD23	1.82	0.60
5:dO:110:LEU:O	5:dO:114:MET:HG2	2.01	0.60
5:dU:110:LEU:O	5:dU:114:MET:HG2	2.01	0.60
5:dt:94:LEU:HD21	5:dt:121:LEU:HD23	1.82	0.60
5:eI:110:LEU:O	5:eI:114:MET:HG2	2.01	0.60
5:eS:103:LEU:HD12	5:eS:113:ILE:HG23	1.83	0.60
5:eY:110:LEU:O	5:eY:114:MET:HG2	2.01	0.60
5:fK:110:LEU:O	5:fK:114:MET:HG2	2.01	0.60
5:fg:98:PHE:HB3	5:fg:117:GLN:HE22	1.66	0.60
5:fy:98:PHE:HB3	5:fy:117:GLN:HE22	1.66	0.60
1:Ap:305:LEU:HD11	2:CG:32:LEU:HG	1.83	0.60
1:Ay:110:ASN:ND2	1:BK:62:ASN:OD1	2.35	0.60
1:BT:308:ARG:HH21	2:Cg:31:LEU:HB2	1.65	0.60
2:Bl:137:LEU:HD11	2:Bl:159:ALA:HB2	1.83	0.60
2:CC:137:LEU:HD11	2:CC:159:ALA:HB2	1.84	0.60
2:CG:124:LYS:HE2	2:CG:126:ASP:HB2	1.82	0.60
1:Et:261:ILE:HD12	1:Et:312:LEU:HD23	1.83	0.60
1:Fh:152:LEU:HD21	2:HB:105:SER:HA	1.83	0.60
1:GJ:80:ASN:ND2	1:GJ:153:PRO:O	2.24	0.60
4:Hr:77:ILE:HG13	4:Hr:91:PRO:HB3	1.84	0.60
1:LC:174:LYS:O	1:LC:212:LYS:NZ	2.34	0.60
2:Lg:137:LEU:HD11	2:Lg:159:ALA:HB2	1.84	0.60
1:Or:87:LYS:NZ	4:RK:53:THR:O	2.32	0.60
1:Ou:166:LYS:HG2	1:Ou:313:GLN:HE21	1.67	0.60
1:Ps:164:GLN:HE22	1:Ps:308:ARG:HA	1.67	0.60
1:Uh:80:ASN:ND2	1:Uh:153:PRO:O	2.34	0.60
2:Uy:155:VAL:O	2:Uy:181:ARG:NH2	2.34	0.60
2:VA:58:LYS:HE2	2:VB:116:ASN:HD21	1.64	0.60
4:WE:69:TYR:HB2	4:WE:108:ILE:HD12	1.83	0.60
5:Yg:55:ILE:HG13	5:Yy:108:TYR:CD2	2.36	0.60
5:ZQ:110:LEU:O	5:ZQ:114:MET:HG2	2.01	0.60
5:aI:110:LEU:O	5:aI:114:MET:HG2	2.01	0.60
5:aO:110:LEU:O	5:aO:114:MET:HG2	2.02	0.60
5:aw:110:LEU:O	5:aw:114:MET:HG2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bG:110:LEU:O	5:bG:114:MET:HG2	2.01	0.60
5:bU:110:LEU:O	5:bU:114:MET:HG2	2.02	0.60
5:ba:110:LEU:O	5:ba:114:MET:HG2	2.02	0.60
5:be:110:LEU:O	5:be:114:MET:HG2	2.02	0.60
5:cB:94:LEU:HD21	5:cB:121:LEU:HD23	1.82	0.60
5:ci:110:LEU:O	5:ci:114:MET:HG2	2.02	0.60
5:cu:110:LEU:O	5:cu:114:MET:HG2	2.02	0.60
5:cw:110:LEU:O	5:cw:114:MET:HG2	2.02	0.60
5:cy:110:LEU:O	5:cy:114:MET:HG2	2.02	0.60
5:dC:110:LEU:O	5:dC:114:MET:HG2	2.01	0.60
5:do:110:LEU:O	5:do:114:MET:HG2	2.02	0.60
5:dv:94:LEU:HD21	5:dv:121:LEU:HD23	1.82	0.60
5:dy:147:ILE:HD11	5:eg:55:ILE:HG12	1.84	0.60
5:eR:94:LEU:HD21	5:eR:121:LEU:HD23	1.83	0.60
5:eX:94:LEU:HD21	5:eX:121:LEU:HD23	1.82	0.60
5:eg:110:LEU:O	5:eg:114:MET:HG2	2.01	0.60
5:ei:103:LEU:HD12	5:ei:113:ILE:HG23	1.83	0.60
5:fN:94:LEU:HD21	5:fN:121:LEU:HD23	1.82	0.60
5:fi:98:PHE:HB3	5:fi:117:GLN:HE22	1.66	0.60
5:gA:98:PHE:HB3	5:gA:117:GLN:HE22	1.66	0.60
1:BN:47:VAL:HG22	1:BN:76:VAL:HG22	1.83	0.60
1:BN:59:THR:O	2:CR:61:ASN:ND2	2.34	0.60
2:By:167:THR:HG22	2:By:168:GLU:H	1.65	0.60
4:DC:77:ILE:HG13	4:DC:91:PRO:HB3	1.84	0.60
4:DD:77:ILE:HG13	4:DD:91:PRO:HB3	1.83	0.60
1:Fm:261:ILE:HD12	1:Fm:312:LEU:HD23	1.84	0.60
1:GM:143:LYS:HA	2:HV:39:ARG:HE	1.66	0.60
2:HQ:77:PHE:HB2	4:Hv:138:LYS:HE2	1.82	0.60
2:HW:167:THR:HG22	2:HW:168:GLU:H	1.67	0.60
4:Hg:69:TYR:HB2	4:Hg:108:ILE:HD12	1.83	0.60
1:KG:162:PRO:HG2	2:Lf:31:LEU:HD11	1.84	0.60
1:Kc:286:ASP:HB2	1:Kc:294:HIS:HB2	1.82	0.60
1:LD:174:LYS:O	1:LD:212:LYS:NZ	2.35	0.60
1:UH:80:ASN:ND2	1:UH:153:PRO:O	2.25	0.60
1:UI:77:VAL:HG21	2:VU:32:LEU:HD23	1.83	0.60
5:YT:86:ILE:HD11	5:YT:118:ARG:HE	1.66	0.60
5:Yu:103:LEU:HD12	5:Yu:113:ILE:HG23	1.81	0.60
5:Yx:84:ASN:HD22	5:Yy:83:ILE:HB	1.66	0.60
5:ZO:59:ILE:HG13	5:ZS:98:PHE:CE2	2.36	0.60
5:Zh:94:LEU:HD21	5:Zh:121:LEU:HD23	1.82	0.60
5:aR:94:LEU:HD21	5:aR:121:LEU:HD23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ac:110:LEU:O	5:ac:114:MET:HG2	2.01	0.60
5:ap:94:LEU:HD21	5:ap:121:LEU:HD23	1.82	0.60
5:ay:110:LEU:O	5:ay:114:MET:HG2	2.02	0.60
5:bW:110:LEU:O	5:bW:114:MET:HG2	2.02	0.60
5:bc:110:LEU:O	5:bc:114:MET:HG2	2.02	0.60
5:cA:110:LEU:O	5:cA:114:MET:HG2	2.02	0.60
5:cC:110:LEU:O	5:cC:114:MET:HG2	2.02	0.60
5:ck:110:LEU:O	5:ck:114:MET:HG2	2.02	0.60
5:dW:110:LEU:O	5:dW:114:MET:HG2	2.02	0.60
5:eM:103:LEU:HD12	5:eM:113:ILE:HG23	1.84	0.60
5:em:110:LEU:O	5:em:114:MET:HG2	2.01	0.60
5:en:94:LEU:HD21	5:en:121:LEU:HD23	1.82	0.60
5:eo:110:LEU:O	5:eo:114:MET:HG2	2.01	0.60
5:fI:110:LEU:O	5:fI:114:MET:HG2	2.01	0.60
5:fo:110:LEU:O	5:fo:114:MET:HG2	2.01	0.60
5:fy:103:LEU:HD12	5:fy:113:ILE:HG23	1.84	0.60
1:AF:107:ASP:OD2	1:AF:110:ASN:ND2	2.32	0.60
1:BB:62:ASN:ND2	4:WO:107:ASP:OD1	2.35	0.60
1:FW:286:ASP:HB2	1:FW:294:HIS:HB2	1.83	0.60
1:Fb:163:GLU:HB2	4:Hl:31:LEU:HD22	1.83	0.60
1:Fn:110:ASN:ND2	1:Fz:62:ASN:OD1	2.35	0.60
1:GG:55:ALA:O	1:GJ:86:TYR:OH	2.19	0.60
1:GN:174:LYS:O	1:GN:212:LYS:NZ	2.34	0.60
2:HC:37:ASP:O	2:HC:41:GLN:NE2	2.35	0.60
1:KH:92:LYS:NZ	1:KH:94:THR:OG1	2.34	0.60
1:KX:75:GLU:HG2	4:Mb:26:GLN:HB3	1.82	0.60
1:Km:152:LEU:HD21	4:Mi:112:SER:HA	1.84	0.60
1:Kp:165:ILE:HD13	1:Kp:191:LEU:HD23	1.84	0.60
1:PA:261:ILE:HD12	1:PA:312:LEU:HD23	1.83	0.60
1:PS:110:ASN:ND2	1:Pc:62:ASN:OD1	2.35	0.60
1:Pd:140:SER:HB2	1:Pd:148:GLN:HG2	1.84	0.60
1:Pg:59:THR:O	2:Qk:61:ASN:ND2	2.34	0.60
2:Qo:77:PHE:HB2	4:RW:138:LYS:HE2	1.83	0.60
1:Tg:41:MET:HE2	1:Tg:83:LYS:H	1.67	0.60
1:Tk:162:PRO:HG2	2:VJ:31:LEU:HD11	1.84	0.60
1:Tl:92:LYS:NZ	1:Tl:94:THR:OG1	2.34	0.60
1:Tt:307:THR:HG22	2:VV:32:LEU:HB2	1.84	0.60
2:Ut:22:MET:HE3	2:Ut:25:PRO:HB3	1.84	0.60
2:VM:137:LEU:HD11	2:VM:159:ALA:HB2	1.83	0.60
2:Vl:167:THR:HG22	2:Vl:168:GLU:H	1.67	0.60
4:WL:77:ILE:HG13	4:WL:91:PRO:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YQ:130:GLN:O	5:YQ:134:ILE:HG12	2.01	0.60
5:ZL:123:ARG:HG3	5:ZL:140:ILE:HD12	1.82	0.60
5:Zw:110:LEU:O	5:Zw:114:MET:HG2	2.02	0.60
5:Zy:110:LEU:O	5:Zy:114:MET:HG2	2.01	0.60
5:bQ:110:LEU:O	5:bQ:114:MET:HG2	2.02	0.60
5:bY:110:LEU:O	5:bY:114:MET:HG2	2.02	0.60
5:bb:94:LEU:HD21	5:bb:121:LEU:HD23	1.82	0.60
5:bi:110:LEU:O	5:bi:114:MET:HG2	2.01	0.60
5:cG:110:LEU:O	5:cG:114:MET:HG2	2.02	0.60
5:cU:110:LEU:O	5:cU:114:MET:HG2	2.02	0.60
5:cr:94:LEU:HD21	5:cr:121:LEU:HD23	1.82	0.60
5:dZ:94:LEU:HD21	5:dZ:121:LEU:HD23	1.82	0.60
5:di:98:PHE:HB3	5:di:117:GLN:HE22	1.66	0.60
5:eN:94:LEU:HD21	5:eN:121:LEU:HD23	1.83	0.60
5:ec:110:LEU:O	5:ec:114:MET:HG2	2.01	0.60
5:ef:94:LEU:HD21	5:ef:121:LEU:HD23	1.83	0.60
5:ey:110:LEU:O	5:ey:114:MET:HG2	2.01	0.60
5:fJ:74:LYS:HE3	5:fK:111:LYS:HZ2	1.67	0.60
5:fi:110:LEU:O	5:fi:114:MET:HG2	2.01	0.60
5:fs:110:LEU:O	5:fs:114:MET:HG2	2.01	0.60
1:AW:80:ASN:ND2	1:AW:153:PRO:O	2.34	0.60
1:Ax:261:ILE:HD12	1:Ax:312:LEU:HD23	1.84	0.60
1:BW:79:LEU:HD11	1:BW:305:LEU:HB2	1.84	0.60
1:BZ:174:LYS:O	1:BZ:212:LYS:NZ	2.35	0.60
1:BZ:261:ILE:HD12	1:BZ:312:LEU:HD23	1.84	0.60
1:FL:80:ASN:ND2	1:FL:153:PRO:O	2.34	0.60
1:Fn:80:ASN:ND2	1:Fn:153:PRO:O	2.26	0.60
1:GB:259:ILE:HB	1:GB:314:VAL:HB	1.83	0.60
1:GO:174:LYS:O	1:GO:212:LYS:NZ	2.35	0.60
2:Ga:22:MET:HE3	2:Ga:25:PRO:HB3	1.84	0.60
2:HO:77:PHE:HB2	4:Hu:138:LYS:HE2	1.84	0.60
4:Hu:77:ILE:HG13	4:Hu:91:PRO:HB3	1.84	0.60
4:Hy:36:ASN:HD22	1:LB:194:GLY:HA3	1.67	0.60
1:Jz:80:ASN:ND2	1:Jz:153:PRO:O	2.30	0.60
1:Ko:261:ILE:HD12	1:Ko:312:LEU:HD23	1.83	0.60
1:LE:165:ILE:HD13	1:LE:191:LEU:HD23	1.83	0.60
2:La:77:PHE:HB2	4:MV:138:LYS:HE2	1.83	0.60
2:Lk:124:LYS:HE2	2:Lk:126:ASP:HB2	1.82	0.60
4:Ma:69:TYR:HB2	4:Ma:108:ILE:HD12	1.83	0.60
4:RY:77:ILE:HG13	4:RY:91:PRO:HB3	1.84	0.60
1:Tj:166:LYS:HG2	1:Tj:313:GLN:HE21	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UF:261:ILE:HD12	1:UF:312:LEU:HD23	1.84	0.60
1:UG:110:ASN:ND2	1:US:62:ASN:OD1	2.35	0.60
1:Uj:86:TYR:OH	1:Ul:55:ALA:O	2.18	0.60
2:VR:180:ASN:O	4:WG:186:ASN:ND2	2.34	0.60
2:VV:37:ASP:O	2:VV:41:GLN:NE2	2.35	0.60
4:WM:26:GLN:NE2	4:WM:28:ASP:OD1	2.34	0.60
5:YR:81:GLU:HA	5:YR:84:ASN:HD21	1.66	0.60
5:ZK:110:LEU:O	5:ZK:114:MET:HG2	2.02	0.60
5:aA:98:PHE:HB3	5:aA:117:GLN:HE22	1.67	0.60
5:aB:94:LEU:HD21	5:aB:121:LEU:HD23	1.83	0.60
5:ae:110:LEU:O	5:ae:114:MET:HG2	2.02	0.60
5:bC:110:LEU:O	5:bC:114:MET:HG2	2.01	0.60
5:bO:110:LEU:O	5:bO:114:MET:HG2	2.02	0.60
5:bg:110:LEU:O	5:bg:114:MET:HG2	2.02	0.60
5:by:110:LEU:O	5:by:114:MET:HG2	2.02	0.60
5:cH:94:LEU:HD21	5:cH:121:LEU:HD23	1.82	0.60
5:cI:110:LEU:O	5:cI:114:MET:HG2	2.02	0.60
5:cW:110:LEU:O	5:cW:114:MET:HG2	2.02	0.60
5:cs:110:LEU:O	5:cs:114:MET:HG2	2.02	0.60
5:dS:110:LEU:O	5:dS:114:MET:HG2	2.02	0.60
5:da:110:LEU:O	5:da:114:MET:HG2	2.01	0.60
5:do:56:ASN:HB2	5:eW:146:GLU:H	1.67	0.60
5:dp:94:LEU:HD21	5:dp:121:LEU:HD23	1.82	0.60
5:eQ:103:LEU:HD12	5:eQ:113:ILE:HG23	1.84	0.60
5:ee:110:LEU:O	5:ee:114:MET:HG2	2.01	0.60
5:fk:110:LEU:O	5:fk:114:MET:HG2	2.01	0.60
5:fm:110:LEU:O	5:fm:114:MET:HG2	2.01	0.60
1:AB:261:ILE:HD12	1:AB:312:LEU:HD23	1.82	0.59
1:AS:62:ASN:OD1	1:Be:110:ASN:ND2	2.35	0.59
1:BL:165:ILE:HD13	1:BL:191:LEU:HD23	1.84	0.59
1:Eq:261:ILE:HD12	1:Eq:312:LEU:HD23	1.82	0.59
1:FH:62:ASN:OD1	1:GT:110:ASN:ND2	2.35	0.59
1:FJ:286:ASP:HB2	1:FJ:294:HIS:HB2	1.84	0.59
1:FK:80:ASN:ND2	1:FK:153:PRO:O	2.30	0.59
1:Fm:205:VAL:HG12	1:Fm:259:ILE:HG23	1.84	0.59
1:Fn:79:LEU:HD11	1:Fn:305:LEU:HB2	1.84	0.59
1:Fo:110:ASN:ND2	1:Fy:62:ASN:OD1	2.35	0.59
1:Fs:261:ILE:HD12	1:Fs:312:LEU:HD23	1.84	0.59
2:HQ:181:ARG:HH12	2:HR:94:LEU:HB3	1.67	0.59
4:MR:77:ILE:HG13	4:MR:91:PRO:HB3	1.82	0.59
1:Pp:79:LEU:HD11	1:Pp:305:LEU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ps:261:ILE:HD12	1:Ps:312:LEU:HD23	1.84	0.59
2:Qv:165:LYS:HE3	2:Qv:168:GLU:HA	1.84	0.59
1:TT:77:VAL:HG21	2:VD:32:LEU:HD23	1.83	0.59
1:Th:261:ILE:HD12	1:Th:312:LEU:HD23	1.84	0.59
1:Tm:65:ASN:ND2	2:VL:57:ASP:O	2.34	0.59
1:Ud:261:ILE:HD12	1:Ud:312:LEU:HD23	1.84	0.59
2:VA:137:LEU:HD11	2:VA:159:ALA:HB2	1.82	0.59
4:WN:77:ILE:HG13	4:WN:91:PRO:HB3	1.84	0.59
6:Xz:192:TYR:HE2	6:Xz:197:LEU:HD13	1.67	0.59
5:Yg:55:ILE:HB	5:Yy:112:ASP:HB3	1.83	0.59
5:aA:110:LEU:O	5:aA:114:MET:HG2	2.01	0.59
5:ag:110:LEU:O	5:ag:114:MET:HG2	2.02	0.59
5:aj:94:LEU:HD21	5:aj:121:LEU:HD23	1.82	0.59
5:ak:110:LEU:O	5:ak:114:MET:HG2	2.02	0.59
5:ao:110:LEU:O	5:ao:114:MET:HG2	2.02	0.59
5:bE:110:LEU:O	5:bE:114:MET:HG2	2.01	0.59
5:bR:94:LEU:HD21	5:bR:121:LEU:HD23	1.82	0.59
5:ce:110:LEU:O	5:ce:114:MET:HG2	2.02	0.59
5:cl:94:LEU:HD21	5:cl:121:LEU:HD23	1.83	0.59
5:dP:94:LEU:HD21	5:dP:121:LEU:HD23	1.82	0.59
5:dm:110:LEU:O	5:dm:114:MET:HG2	2.01	0.59
5:dr:94:LEU:HD21	5:dr:121:LEU:HD23	1.82	0.59
5:dw:86:ILE:HD11	5:dw:118:ARG:HE	1.65	0.59
5:eS:110:LEU:O	5:eS:114:MET:HG2	2.01	0.59
5:eU:110:LEU:O	5:eU:114:MET:HG2	2.01	0.59
5:eW:103:LEU:HD12	5:eW:113:ILE:HG23	1.83	0.59
5:eW:110:LEU:O	5:eW:114:MET:HG2	2.01	0.59
5:ea:110:LEU:O	5:ea:114:MET:HG2	2.01	0.59
5:ei:110:LEU:O	5:ei:114:MET:HG2	2.01	0.59
5:ek:110:LEU:O	5:ek:114:MET:HG2	2.01	0.59
5:fZ:94:LEU:HD21	5:fZ:121:LEU:HD23	1.83	0.59
5:fe:98:PHE:HB3	5:fe:117:GLN:HE22	1.66	0.59
1:AE:59:THR:O	4:Cl:61:ASN:ND2	2.35	0.59
1:AE:261:ILE:HD12	1:AE:312:LEU:HD23	1.83	0.59
2:Cd:167:THR:HG22	2:Cd:168:GLU:H	1.67	0.59
2:Ch:167:THR:HG22	2:Ch:168:GLU:H	1.67	0.59
1:FN:41:MET:HE2	1:FN:83:LYS:H	1.67	0.59
1:FU:107:ASP:OD2	1:FU:110:ASN:ND2	2.34	0.59
1:GC:194:GLY:HA3	4:Hq:36:ASN:OD1	2.02	0.59
1:GD:165:ILE:HD13	1:GD:191:LEU:HD23	1.84	0.59
2:Gc:125:LYS:NZ	2:Gc:168:GLU:O	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Hd:93:VAL:HG21	4:Hd:117:ILE:HD11	1.85	0.59
4:Ht:26:GLN:NE2	4:Ht:28:ASP:OD1	2.34	0.59
1:Je:244:ARG:NH1	1:OT:210:SER:OG	2.33	0.59
1:Jj:107:ASP:OD2	1:Jj:110:ASN:ND2	2.32	0.59
1:KE:77:VAL:HG21	2:LX:32:LEU:HD23	1.83	0.59
1:KF:166:LYS:HG2	1:KF:313:GLN:HE21	1.67	0.59
1:KG:286:ASP:HB2	1:KG:294:HIS:HB2	1.84	0.59
1:KT:305:LEU:HD11	2:Lk:32:LEU:HG	1.83	0.59
1:KW:62:ASN:OD1	1:Kt:110:ASN:ND2	2.36	0.59
1:Ky:164:GLN:HE22	1:Ky:308:ARG:HA	1.67	0.59
1:Oe:77:VAL:HG21	2:QO:32:LEU:HD23	1.83	0.59
1:Or:79:LEU:HD11	1:Or:305:LEU:HB2	1.84	0.59
1:Pe:165:ILE:HD13	1:Pe:191:LEU:HD23	1.84	0.59
4:RV:77:ILE:HG13	4:RV:91:PRO:HB3	1.83	0.59
1:Ti:87:LYS:NZ	2:VG:53:THR:O	2.30	0.59
1:UK:55:ALA:HB2	4:WL:51:THR:HB	1.83	0.59
1:UV:152:LEU:HD21	4:WI:112:SER:HA	1.83	0.59
2:Vk:165:LYS:HE3	2:Vk:168:GLU:HA	1.84	0.59
5:YX:110:LEU:O	5:YX:114:MET:HG2	2.00	0.59
5:Yd:134:ILE:HA	5:Ye:150:GLN:HB3	1.84	0.59
5:Ye:73:GLU:HG2	5:Yf:110:LEU:HD22	1.84	0.59
5:Yi:134:ILE:HD11	5:Yj:154:LEU:HD13	1.83	0.59
5:aG:110:LEU:O	5:aG:114:MET:HG2	2.01	0.59
5:ai:110:LEU:O	5:ai:114:MET:HG2	2.02	0.59
5:cE:110:LEU:O	5:cE:114:MET:HG2	2.02	0.59
5:cY:110:LEU:O	5:cY:114:MET:HG2	2.02	0.59
5:dR:94:LEU:HD21	5:dR:121:LEU:HD23	1.82	0.59
5:dY:110:LEU:O	5:dY:114:MET:HG2	2.01	0.59
5:dg:110:LEU:O	5:dg:114:MET:HG2	2.01	0.59
5:eP:94:LEU:HD21	5:eP:121:LEU:HD23	1.82	0.59
5:eQ:110:LEU:O	5:eQ:114:MET:HG2	2.01	0.59
5:fE:110:LEU:O	5:fE:114:MET:HG2	2.01	0.59
5:fG:110:LEU:O	5:fG:114:MET:HG2	2.01	0.59
5:fu:103:LEU:HD12	5:fu:113:ILE:HG23	1.84	0.59
1:Ac:286:ASP:HB2	1:Ac:294:HIS:HB2	1.84	0.59
1:BN:152:LEU:HD21	4:DA:112:SER:HA	1.83	0.59
2:Bh:165:LYS:HE3	2:Bh:168:GLU:HA	1.85	0.59
1:Ep:244:ARG:NH1	1:Je:210:SER:OG	2.33	0.59
1:FH:196:GLU:HB3	1:FH:265:ASN:HD22	1.68	0.59
1:FR:286:ASP:HB2	1:FR:294:HIS:HB2	1.84	0.59
1:FW:261:ILE:HD12	1:FW:312:LEU:HD23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fh:62:ASN:OD1	1:GE:110:ASN:ND2	2.35	0.59
1:Fx:152:LEU:HD21	4:Ht:112:SER:HA	1.84	0.59
1:GI:308:ARG:HH21	2:HV:31:LEU:HB2	1.65	0.59
4:Hy:73:VAL:HG21	4:Hy:117:ILE:HD13	1.83	0.59
1:Jw:62:ASN:OD1	1:LI:110:ASN:ND2	2.35	0.59
1:Kd:110:ASN:ND2	1:Kn:62:ASN:OD1	2.35	0.59
1:LA:79:LEU:HD11	1:LA:305:LEU:HB2	1.84	0.59
1:LH:165:ILE:HD13	1:LH:191:LEU:HD23	1.84	0.59
2:MH:167:THR:HG22	2:MH:168:GLU:H	1.67	0.59
1:PQ:205:VAL:HG12	1:PQ:259:ILE:HG23	1.84	0.59
1:PQ:261:ILE:HD12	1:PQ:312:LEU:HD23	1.84	0.59
1:PR:79:LEU:HD11	1:PR:305:LEU:HB2	1.84	0.59
1:PR:286:ASP:HB2	1:PR:294:HIS:HB2	1.82	0.59
1:PT:77:VAL:HG21	2:Qf:32:LEU:HD23	1.83	0.59
1:Pj:59:THR:O	4:WK:61:ASN:ND2	2.35	0.59
1:Pq:143:LYS:HA	2:Qz:39:ARG:HE	1.66	0.59
1:TM:261:ILE:HD12	1:TM:312:LEU:HD23	1.83	0.59
1:TN:107:ASP:OD2	1:TN:110:ASN:ND2	2.32	0.59
1:Tj:284:GLN:NE2	1:Tj:286:ASP:OD1	2.35	0.59
1:Ui:165:ILE:HD13	1:Ui:191:LEU:HD23	1.83	0.59
2:Vd:77:PHE:HB2	4:WL:138:LYS:HE2	1.82	0.59
6:YG:273:THR:HG22	6:YG:275:SER:H	1.67	0.59
5:Yo:110:LEU:O	5:Yo:114:MET:HG2	2.02	0.59
5:ZI:154:LEU:HD13	5:ZJ:134:ILE:HD11	1.83	0.59
5:Zh:131:ILE:HD13	5:Zh:140:ILE:HD11	1.84	0.59
5:Zj:94:LEU:HD21	5:Zj:121:LEU:HD23	1.82	0.59
5:Zs:110:LEU:O	5:Zs:114:MET:HG2	2.02	0.59
5:ac:98:PHE:HB3	5:ac:117:GLN:HE22	1.67	0.59
5:at:94:LEU:HD21	5:at:121:LEU:HD23	1.82	0.59
5:dk:55:ILE:HB	5:eS:147:ILE:HD12	1.82	0.59
5:eA:103:LEU:HD12	5:eA:113:ILE:HG23	1.84	0.59
5:eK:110:LEU:O	5:eK:114:MET:HG2	2.01	0.59
5:eU:98:PHE:HB3	5:eU:117:GLN:HE22	1.66	0.59
5:eY:103:LEU:HD12	5:eY:113:ILE:HG23	1.83	0.59
5:es:103:LEU:HD12	5:es:113:ILE:HG23	1.84	0.59
5:ew:103:LEU:HD12	5:ew:113:ILE:HG23	1.84	0.59
5:ex:94:LEU:HD21	5:ex:121:LEU:HD23	1.83	0.59
5:fX:94:LEU:HD21	5:fX:121:LEU:HD23	1.83	0.59
5:fY:103:LEU:HD12	5:fY:113:ILE:HG23	1.84	0.59
5:gB:131:ILE:HD13	5:gB:140:ILE:HD11	1.84	0.59
1:Ac:162:PRO:HG2	2:CB:31:LEU:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BR:87:LYS:NZ	2:Cc:53:THR:O	2.31	0.59
2:Bs:41:GLN:NE2	1:Te:50:ASP:OD2	2.36	0.59
2:CE:137:LEU:HD11	2:CE:159:ALA:HB2	1.83	0.59
5:IU:193:ASN:HD21	5:fR:102:VAL:HG13	1.67	0.59
1:KV:13:VAL:HG11	1:KV:103:SER:HA	1.84	0.59
1:Ka:87:LYS:NZ	2:Lr:53:THR:O	2.29	0.59
4:Mj:77:ILE:HG13	4:Mj:91:PRO:HB3	1.84	0.59
1:PR:110:ASN:ND2	1:Pd:62:ASN:OD1	2.35	0.59
2:QA:165:LYS:HE3	2:QA:168:GLU:HA	1.85	0.59
1:TJ:261:ILE:HD12	1:TJ:312:LEU:HD23	1.82	0.59
1:Tp:261:ILE:HD12	1:Tp:312:LEU:HD23	1.83	0.59
1:UM:59:THR:O	4:WM:61:ASN:ND2	2.36	0.59
1:UV:59:THR:O	2:VZ:61:ASN:ND2	2.34	0.59
1:Uh:174:LYS:O	1:Uh:212:LYS:NZ	2.35	0.59
5:Yg:58:ARG:HH21	5:Yy:106:LYS:HZ1	1.50	0.59
5:Ze:110:LEU:O	5:Ze:114:MET:HG2	2.03	0.59
5:ah:131:ILE:HD13	5:ah:140:ILE:HD11	1.85	0.59
5:am:110:LEU:O	5:am:114:MET:HG2	2.02	0.59
5:ar:94:LEU:HD21	5:ar:121:LEU:HD23	1.82	0.59
5:bA:110:LEU:O	5:bA:114:MET:HG2	2.01	0.59
5:bM:110:LEU:O	5:bM:114:MET:HG2	2.02	0.59
5:bZ:94:LEU:HD21	5:bZ:121:LEU:HD23	1.82	0.59
5:bw:110:LEU:O	5:bw:114:MET:HG2	2.02	0.59
5:cb:131:ILE:HD13	5:cb:140:ILE:HD11	1.84	0.59
5:cm:110:LEU:O	5:cm:114:MET:HG2	2.02	0.59
5:cq:110:LEU:O	5:cq:114:MET:HG2	2.02	0.59
5:dA:110:LEU:O	5:dA:114:MET:HG2	2.01	0.59
5:du:103:LEU:HD12	5:du:113:ILE:HG23	1.85	0.59
5:dz:94:LEU:HD21	5:dz:121:LEU:HD23	1.82	0.59
5:eO:110:LEU:O	5:eO:114:MET:HG2	2.01	0.59
5:ek:103:LEU:HD12	5:ek:113:ILE:HG23	1.84	0.59
5:eq:110:LEU:O	5:eq:114:MET:HG2	2.01	0.59
5:gC:103:LEU:HD12	5:gC:113:ILE:HG23	1.84	0.59
5:gD:94:LEU:HD21	5:gD:121:LEU:HD23	1.82	0.59
1:AH:165:ILE:HD13	1:AH:191:LEU:HD23	1.84	0.59
1:AS:196:GLU:HB3	1:AS:265:ASN:HD22	1.68	0.59
1:AU:286:ASP:HB2	1:AU:294:HIS:HB2	1.84	0.59
1:AZ:261:ILE:HD12	1:AZ:312:LEU:HD23	1.84	0.59
1:Al:307:THR:HG22	2:CN:32:LEU:HB2	1.84	0.59
1:Aw:80:ASN:ND2	1:Aw:153:PRO:O	2.36	0.59
1:Az:110:ASN:ND2	1:BJ:62:ASN:OD1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BV:261:ILE:HD12	1:BV:312:LEU:HD23	1.84	0.59
1:BX:194:GLY:HA3	4:WR:36:ASN:HD22	1.68	0.59
1:BY:174:LYS:O	1:BY:212:LYS:NZ	2.34	0.59
1:Ba:165:ILE:HD13	1:Ba:191:LEU:HD23	1.83	0.59
2:Bn:125:LYS:NZ	2:Bn:168:GLU:O	2.30	0.59
2:CL:69:TYR:HB2	2:CL:101:ILE:HD12	1.85	0.59
1:Fa:307:THR:HG22	2:HC:32:LEU:HB2	1.84	0.59
1:GE:165:ILE:HD13	1:GE:191:LEU:HD23	1.82	0.59
1:KA:50:ASP:OD2	2:QL:41:GLN:NE2	2.36	0.59
2:Lr:37:ASP:O	2:Lr:41:GLN:NE2	2.35	0.59
1:Pd:164:GLN:HE22	1:Pd:308:ARG:HA	1.67	0.59
1:Ps:174:LYS:O	1:Ps:212:LYS:NZ	2.35	0.59
4:RH:93:VAL:HG21	4:RH:117:ILE:HD11	1.85	0.59
1:Tk:286:ASP:HB2	1:Tk:294:HIS:HB2	1.84	0.59
1:US:261:ILE:HD12	1:US:312:LEU:HD23	1.83	0.59
2:Uu:69:TYR:HB2	2:Uu:101:ILE:HD12	1.85	0.59
2:VE:125:LYS:HD2	2:VE:169:ASP:HA	1.85	0.59
2:VY:165:LYS:HE3	2:VY:168:GLU:HA	1.83	0.59
5:YU:82:ARG:O	5:YU:86:ILE:HG12	2.02	0.59
5:ZG:110:LEU:O	5:ZG:114:MET:HG2	2.02	0.59
5:Zb:94:LEU:HD21	5:Zb:121:LEU:HD23	1.82	0.59
5:aI:103:LEU:HD12	5:aI:113:ILE:HG23	1.84	0.59
5:au:110:LEU:O	5:au:114:MET:HG2	2.02	0.59
5:bo:110:LEU:O	5:bo:114:MET:HG2	2.02	0.59
5:bz:94:LEU:HD21	5:bz:121:LEU:HD23	1.82	0.59
5:ca:110:LEU:O	5:ca:114:MET:HG2	2.02	0.59
5:de:110:LEU:O	5:de:114:MET:HG2	2.01	0.59
5:du:86:ILE:HD11	5:du:118:ARG:HE	1.66	0.59
5:dx:94:LEU:HD21	5:dx:121:LEU:HD23	1.83	0.59
5:em:103:LEU:HD12	5:em:113:ILE:HG23	1.84	0.59
5:eo:103:LEU:HD12	5:eo:113:ILE:HG23	1.85	0.59
5:fJ:131:ILE:HD13	5:fJ:140:ILE:HD11	1.85	0.59
5:fa:98:PHE:HB3	5:fa:117:GLN:HE22	1.66	0.59
5:ff:131:ILE:HD13	5:ff:140:ILE:HD11	1.85	0.59
1:As:62:ASN:OD1	1:BP:110:ASN:ND2	2.35	0.59
1:At:152:LEU:HD21	2:CL:105:SER:HA	1.85	0.59
1:BD:261:ILE:HD12	1:BD:312:LEU:HD23	1.85	0.59
2:Bp:180:ASN:O	4:Cn:186:ASN:ND2	2.28	0.59
4:DF:77:ILE:HG13	4:DF:91:PRO:HB3	1.84	0.59
1:Fg:13:VAL:HG11	1:Fg:103:SER:HA	1.84	0.59
1:Fl:80:ASN:ND2	1:Fl:153:PRO:O	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fn:286:ASP:HB2	1:Fn:294:HIS:HB2	1.82	0.59
1:GL:79:LEU:HD11	1:GL:305:LEU:HB2	1.84	0.59
1:GO:164:GLN:HE22	1:GO:308:ARG:HA	1.67	0.59
2:Gc:165:LYS:HE3	2:Gc:168:GLU:HA	1.85	0.59
2:Gl:125:LYS:HD2	2:Gl:169:ASP:HA	1.85	0.59
2:Gv:124:LYS:HE2	2:Gv:126:ASP:HB2	1.82	0.59
2:HA:69:TYR:HB2	2:HA:101:ILE:HD12	1.85	0.59
1:KB:77:VAL:HG21	2:La:32:LEU:HD23	1.83	0.59
1:KC:41:MET:HE2	1:KC:83:LYS:H	1.67	0.59
1:Kc:110:ASN:ND2	1:Ko:62:ASN:OD1	2.35	0.59
1:Ko:164:GLN:HE22	1:Ko:308:ARG:HA	1.67	0.59
2:LL:165:LYS:HE3	2:LL:168:GLU:HA	1.85	0.59
2:MF:181:ARG:HH12	2:MG:94:LEU:HB3	1.67	0.59
4:Mn:77:ILE:HG13	4:Mn:91:PRO:HB3	1.85	0.59
5:OE:193:ASN:ND2	5:cV:162:ARG:NH1	2.50	0.59
1:PM:152:LEU:HD21	2:Qe:105:SER:HA	1.85	0.59
1:PP:80:ASN:ND2	1:PP:153:PRO:O	2.35	0.59
2:RA:167:THR:HG22	2:RA:168:GLU:H	1.67	0.59
4:Rc:73:VAL:HG21	4:Rc:117:ILE:HD13	1.83	0.59
1:Ta:196:GLU:HB3	1:Ta:265:ASN:HD22	1.68	0.59
1:UE:80:ASN:ND2	1:UE:153:PRO:O	2.36	0.59
6:YE:196:SER:O	6:YE:199:GLN:HG3	2.03	0.59
5:YR:56:ASN:HD22	5:Yi:147:ILE:HA	1.68	0.59
5:Yw:103:LEU:HD12	5:Yw:113:ILE:HG23	1.83	0.59
5:aC:110:LEU:O	5:aC:114:MET:HG2	2.01	0.59
5:aE:110:LEU:O	5:aE:114:MET:HG2	2.01	0.59
5:bI:110:LEU:O	5:bI:114:MET:HG2	2.01	0.59
5:bK:110:LEU:O	5:bK:114:MET:HG2	2.02	0.59
5:bk:110:LEU:O	5:bk:114:MET:HG2	2.01	0.59
5:cj:94:LEU:HD21	5:cj:121:LEU:HD23	1.82	0.59
5:fO:103:LEU:HD12	5:fO:113:ILE:HG23	1.84	0.59
5:fS:103:LEU:HD12	5:fS:113:ILE:HG23	1.85	0.59
5:fV:94:LEU:HD21	5:fV:121:LEU:HD23	1.82	0.59
5:fV:131:ILE:HD13	5:fV:140:ILE:HD11	1.85	0.59
5:fZ:131:ILE:HD13	5:fZ:140:ILE:HD11	1.85	0.59
5:fc:103:LEU:HD12	5:fc:113:ILE:HG23	1.84	0.59
5:fh:131:ILE:HD13	5:fh:140:ILE:HD11	1.85	0.59
5:fm:98:PHE:HB3	5:fm:117:GLN:HE22	1.67	0.59
2:GW:165:LYS:HE3	2:GW:168:GLU:HA	1.85	0.59
4:He:93:VAL:HG21	4:He:117:ILE:HD11	1.85	0.59
1:Kc:79:LEU:HD11	1:Kc:305:LEU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kn:80:ASN:ND2	1:Kn:153:PRO:O	2.36	0.59
1:LB:143:LYS:HA	2:MK:39:ARG:HE	1.66	0.59
1:OX:59:THR:O	4:RE:61:ASN:ND2	2.35	0.59
1:Pc:80:ASN:ND2	1:Pc:153:PRO:O	2.36	0.59
2:QE:22:MET:HE3	2:QE:25:PRO:HB3	1.84	0.59
2:QJ:155:VAL:O	2:QJ:181:ARG:NH2	2.34	0.59
2:Qw:167:THR:HG22	2:Qw:168:GLU:H	1.67	0.59
4:Rc:41:LYS:HE2	1:Uf:52:PHE:HB3	1.84	0.59
1:TM:59:THR:O	4:Vt:61:ASN:ND2	2.35	0.59
1:Tb:110:ASN:OD1	1:Ti:62:ASN:ND2	2.28	0.59
2:Vj:181:ARG:HH12	2:Vk:94:LEU:HB3	1.67	0.59
5:Yk:103:LEU:HD12	5:Yk:113:ILE:HG23	1.85	0.59
5:Yk:110:LEU:O	5:Yk:114:MET:HG2	2.03	0.59
5:ZM:110:LEU:O	5:ZM:114:MET:HG2	2.03	0.59
5:ZQ:112:ASP:OD1	5:ZQ:115:GLN:NE2	2.35	0.59
5:Zk:110:LEU:O	5:Zk:114:MET:HG2	2.03	0.59
5:Zl:94:LEU:HD21	5:Zl:121:LEU:HD23	1.82	0.59
5:Zo:110:LEU:O	5:Zo:114:MET:HG2	2.03	0.59
5:Zu:110:LEU:O	5:Zu:114:MET:HG2	2.02	0.59
5:aN:131:ILE:HD13	5:aN:140:ILE:HD11	1.85	0.59
5:ar:131:ILE:HD13	5:ar:140:ILE:HD11	1.85	0.59
5:bX:131:ILE:HD13	5:bX:140:ILE:HD11	1.85	0.59
5:cD:131:ILE:HD13	5:cD:140:ILE:HD11	1.85	0.59
5:cV:131:ILE:HD13	5:cV:140:ILE:HD11	1.85	0.59
5:ch:94:LEU:HD21	5:ch:121:LEU:HD23	1.82	0.59
5:cn:131:ILE:HD13	5:cn:140:ILE:HD11	1.85	0.59
5:dT:131:ILE:HD13	5:dT:140:ILE:HD11	1.85	0.59
5:fU:103:LEU:HD12	5:fU:113:ILE:HG23	1.84	0.59
5:fd:131:ILE:HD13	5:fd:140:ILE:HD11	1.85	0.59
5:fq:110:LEU:O	5:fq:114:MET:HG2	2.01	0.59
1:AX:55:ALA:O	1:Bd:86:TYR:OH	2.21	0.59
2:Cb:181:ARG:HH12	2:Cc:94:LEU:HB3	1.67	0.59
1:Fk:107:ASP:OD2	1:Fk:110:ASN:ND2	2.32	0.59
1:Fk:317:LYS:NZ	1:Fk:319:SER:OXT	2.34	0.59
2:HS:167:THR:HG22	2:HS:168:GLU:H	1.67	0.59
1:KC:286:ASP:HB2	1:KC:294:HIS:HB2	1.85	0.59
1:KO:21:LYS:NZ	1:KZ:195:ASP:OD2	2.36	0.59
1:Kb:55:ALA:O	1:Ks:86:TYR:OH	2.20	0.59
1:Kb:205:VAL:HG12	1:Kb:259:ILE:HG23	1.84	0.59
1:Kg:55:ALA:HB2	4:Mh:51:THR:HB	1.83	0.59
1:Ko:140:SER:HB2	1:Ko:148:GLN:HG2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ks:165:ILE:HD13	1:Ks:191:LEU:HD23	1.84	0.59
1:Kt:261:ILE:HD12	1:Kt:312:LEU:HD23	1.84	0.59
2:ML:167:THR:HG22	2:ML:168:GLU:H	1.67	0.59
1:Ol:62:ASN:OD1	1:Px:110:ASN:ND2	2.35	0.59
1:Ov:77:VAL:HG21	2:QU:32:LEU:HD23	1.85	0.59
1:PD:21:LYS:NZ	1:PO:195:ASP:OD2	2.36	0.59
1:Pr:174:LYS:O	1:Pr:212:LYS:NZ	2.34	0.59
2:Qk:75:LEU:HD22	2:Qk:84:LEU:HD13	1.85	0.59
2:Qu:181:ARG:HH12	2:Qv:94:LEU:HB3	1.67	0.59
2:VT:69:TYR:HB2	2:VT:101:ILE:HD12	1.85	0.59
5:Yv:94:LEU:HD23	5:Yv:124:LYS:HD2	1.85	0.59
5:aJ:94:LEU:HD21	5:aJ:121:LEU:HD23	1.82	0.59
5:aj:131:ILE:HD13	5:aj:140:ILE:HD11	1.85	0.59
5:bq:110:LEU:O	5:bq:114:MET:HG2	2.02	0.59
5:bt:131:ILE:HD13	5:bt:140:ILE:HD11	1.85	0.59
5:cc:110:LEU:O	5:cc:114:MET:HG2	2.02	0.59
5:dB:131:ILE:HD13	5:dB:140:ILE:HD11	1.85	0.59
5:dD:131:ILE:HD13	5:dD:140:ILE:HD11	1.85	0.59
5:dH:131:ILE:HD13	5:dH:140:ILE:HD11	1.85	0.59
5:dL:131:ILE:HD13	5:dL:140:ILE:HD11	1.85	0.59
5:dP:131:ILE:HD13	5:dP:140:ILE:HD11	1.85	0.59
5:dk:110:LEU:O	5:dk:114:MET:HG2	2.01	0.59
5:dm:86:ILE:HD11	5:dm:118:ARG:HE	1.67	0.59
5:fA:110:LEU:O	5:fA:114:MET:HG2	2.01	0.59
5:fW:103:LEU:HD12	5:fW:113:ILE:HG23	1.84	0.59
5:fb:131:ILE:HD13	5:fb:140:ILE:HD11	1.85	0.59
5:gA:103:LEU:HD12	5:gA:113:ILE:HG23	1.84	0.59
5:gC:98:PHE:HB3	5:gC:117:GLN:HE22	1.66	0.59
1:Ay:79:LEU:HD11	1:Ay:305:LEU:HB2	1.84	0.59
2:Cb:123:LEU:HD21	2:Cb:131:VAL:HG21	1.85	0.59
1:FL:50:ASP:OD2	2:LW:41:GLN:NE2	2.36	0.59
1:FQ:166:LYS:HG2	1:FQ:313:GLN:HE21	1.67	0.59
1:Fd:55:ALA:O	1:Fh:86:TYR:OH	2.17	0.59
1:Fz:140:SER:HB2	1:Fz:148:GLN:HG2	1.84	0.59
1:GQ:261:ILE:HD12	1:GQ:312:LEU:HD23	1.85	0.59
2:Gi:125:LYS:NZ	2:Gi:169:ASP:OD1	2.36	0.59
2:HG:75:LEU:HD22	2:HG:84:LEU:HD13	1.85	0.59
1:KG:77:VAL:HG21	2:Lf:32:LEU:HD23	1.85	0.59
1:KZ:317:LYS:NZ	1:KZ:319:SER:OXT	2.34	0.59
2:Lp:69:TYR:HB2	2:Lp:101:ILE:HD12	1.85	0.59
2:Lv:75:LEU:HD22	2:Lv:84:LEU:HD13	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ov:286:ASP:HB2	1:Ov:294:HIS:HB2	1.85	0.59
1:Ph:165:ILE:HD13	1:Ph:191:LEU:HD23	1.84	0.59
1:Po:261:ILE:HD12	1:Po:312:LEU:HD23	1.84	0.59
2:Qg:37:ASP:O	2:Qg:41:GLN:NE2	2.35	0.59
2:Qu:123:LEU:HD21	2:Qu:131:VAL:HG21	1.85	0.59
1:Tg:286:ASP:HB2	1:Tg:294:HIS:HB2	1.85	0.59
2:Up:165:LYS:HE3	2:Up:168:GLU:HA	1.85	0.59
5:Ye:110:LEU:O	5:Ye:114:MET:HG2	2.01	0.59
5:Zg:110:LEU:O	5:Zg:114:MET:HG2	2.03	0.59
5:Zq:110:LEU:O	5:Zq:114:MET:HG2	2.03	0.59
5:Zx:131:ILE:HD13	5:Zx:140:ILE:HD11	1.85	0.59
5:Zz:131:ILE:HD13	5:Zz:140:ILE:HD11	1.85	0.59
5:aB:131:ILE:HD13	5:aB:140:ILE:HD11	1.85	0.59
5:aJ:131:ILE:HD13	5:aJ:140:ILE:HD11	1.85	0.59
5:at:131:ILE:HD13	5:at:140:ILE:HD11	1.85	0.59
5:bm:110:LEU:O	5:bm:114:MET:HG2	2.01	0.59
5:bu:110:LEU:O	5:bu:114:MET:HG2	2.02	0.59
5:cF:131:ILE:HD13	5:cF:140:ILE:HD11	1.85	0.59
5:cg:110:LEU:O	5:cg:114:MET:HG2	2.02	0.59
5:cr:131:ILE:HD13	5:cr:140:ILE:HD11	1.85	0.59
5:dF:131:ILE:HD13	5:dF:140:ILE:HD11	1.85	0.59
5:dJ:131:ILE:HD13	5:dJ:140:ILE:HD11	1.85	0.59
5:di:110:LEU:O	5:di:114:MET:HG2	2.01	0.59
5:eC:98:PHE:HB3	5:eC:117:GLN:HE22	1.68	0.59
5:eE:103:LEU:HD12	5:eE:113:ILE:HG23	1.85	0.59
5:eO:103:LEU:HD12	5:eO:113:ILE:HG23	1.84	0.59
5:fj:131:ILE:HD13	5:fj:140:ILE:HD11	1.85	0.59
5:fo:103:LEU:HD12	5:fo:113:ILE:HG23	1.84	0.59
1:AL:77:VAL:HG21	2:Bv:32:LEU:HD23	1.83	0.59
1:AL:143:LYS:HE3	4:Cm:40:ASP:HB2	1.85	0.59
1:AW:50:ASP:OD2	2:Gh:41:GLN:NE2	2.36	0.59
1:Aa:65:ASN:HB2	2:Bs:59:ILE:H	1.68	0.59
1:Ac:77:VAL:HG21	2:CB:32:LEU:HD23	1.85	0.59
1:BK:164:GLN:HE22	1:BK:308:ARG:HA	1.67	0.59
1:Bd:165:ILE:HD13	1:Bd:191:LEU:HD23	1.84	0.59
1:FO:261:ILE:HD12	1:FO:312:LEU:HD23	1.84	0.59
1:FR:162:PRO:HG2	2:Gq:31:LEU:HD11	1.84	0.59
1:GO:261:ILE:HD12	1:GO:312:LEU:HD23	1.84	0.59
1:Jp:77:VAL:HG21	2:LZ:32:LEU:HD23	1.83	0.59
1:Kb:261:ILE:HD12	1:Kb:312:LEU:HD23	1.84	0.59
1:Kh:261:ILE:HD12	1:Kh:312:LEU:HD23	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LK:52:CYS:SG	1:OU:66:THR:HG22	2.43	0.59
4:Mg:77:ILE:HG13	4:Mg:91:PRO:HB3	1.84	0.59
4:Mi:69:TYR:HB2	4:Mi:108:ILE:HD12	1.85	0.59
1:Or:286:ASP:HB2	1:Or:294:HIS:HB2	1.85	0.59
1:PE:307:THR:HG22	2:Qg:32:LEU:HB2	1.84	0.59
1:PH:55:ALA:O	1:PL:86:TYR:OH	2.17	0.59
1:PK:13:VAL:HG11	1:PK:103:SER:HA	1.84	0.59
1:Pw:165:ILE:HD13	1:Pw:191:LEU:HD23	1.84	0.59
1:TP:165:ILE:HD13	1:TP:191:LEU:HD23	1.84	0.59
1:Tg:79:LEU:HD11	1:Tg:305:LEU:HB2	1.84	0.59
1:Uh:261:ILE:HD12	1:Uh:312:LEU:HD23	1.84	0.59
2:Vg:63:PRO:HB2	2:Vg:85:GLU:HG2	1.85	0.59
5:Ys:55:ILE:HD11	5:Zo:98:PHE:HD2	1.68	0.59
5:Yu:110:LEU:O	5:Yu:114:MET:HG2	2.02	0.59
5:ZV:131:ILE:HD13	5:ZV:140:ILE:HD11	1.85	0.59
5:Za:110:LEU:O	5:Za:114:MET:HG2	2.03	0.59
5:Zb:131:ILE:HD13	5:Zb:140:ILE:HD11	1.85	0.59
5:Zd:131:ILE:HD13	5:Zd:140:ILE:HD11	1.85	0.59
5:Zj:131:ILE:HD13	5:Zj:140:ILE:HD11	1.85	0.59
5:bZ:131:ILE:HD13	5:bZ:140:ILE:HD11	1.85	0.59
5:cB:131:ILE:HD13	5:cB:140:ILE:HD11	1.85	0.59
5:cX:131:ILE:HD13	5:cX:140:ILE:HD11	1.85	0.59
5:cZ:131:ILE:HD13	5:cZ:140:ILE:HD11	1.85	0.59
5:cd:131:ILE:HD13	5:cd:140:ILE:HD11	1.85	0.59
5:cj:131:ILE:HD13	5:cj:140:ILE:HD11	1.85	0.59
5:cl:131:ILE:HD13	5:cl:140:ILE:HD11	1.85	0.59
5:dN:131:ILE:HD13	5:dN:140:ILE:HD11	1.85	0.59
5:dk:56:ASN:HB2	5:eS:146:GLU:H	1.67	0.59
5:dw:103:LEU:HD12	5:dw:113:ILE:HG23	1.84	0.59
5:dy:103:LEU:HD12	5:dy:113:ILE:HG23	1.85	0.59
5:ea:103:LEU:HD12	5:ea:113:ILE:HG23	1.83	0.59
5:fH:131:ILE:HD13	5:fH:140:ILE:HD11	1.85	0.59
5:fX:131:ILE:HD13	5:fX:140:ILE:HD11	1.85	0.59
1:BC:152:LEU:HD21	4:DC:112:SER:HA	1.84	0.58
1:BE:59:THR:O	4:DE:61:ASN:ND2	2.36	0.58
2:Bn:165:LYS:HE3	2:Bn:168:GLU:HA	1.85	0.58
2:CR:75:LEU:HD22	2:CR:84:LEU:HD13	1.85	0.58
2:CZ:61:ASN:ND2	1:UQ:59:THR:O	2.37	0.58
4:Co:93:VAL:HG21	4:Co:117:ILE:HD11	1.85	0.58
1:FR:77:VAL:HG21	2:Gq:32:LEU:HD23	1.85	0.58
1:Fi:152:LEU:HD21	2:HA:105:SER:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GE:261:ILE:HD12	1:GE:312:LEU:HD23	1.84	0.58
1:GJ:164:GLN:HE22	1:GJ:308:ARG:HA	1.67	0.58
4:Hr:26:GLN:NE2	4:Hr:28:ASP:OD1	2.36	0.58
1:KX:152:LEU:HD21	2:Lp:105:SER:HA	1.85	0.58
2:MC:63:PRO:HB2	2:MC:85:GLU:HG2	1.85	0.58
2:MG:165:LYS:HE3	2:MG:168:GLU:HA	1.84	0.58
1:Of:20:VAL:O	5:Rp:213:ARG:NH2	2.33	0.58
1:PL:62:ASN:OD1	1:Pi:110:ASN:ND2	2.36	0.58
1:Pn:26:TYR:O	5:Sx:218:TYR:OH	2.16	0.58
2:Ql:165:LYS:HE3	2:Ql:168:GLU:HA	1.86	0.58
4:Rc:77:ILE:HG13	4:Rc:91:PRO:HB3	1.85	0.58
1:Ta:66:THR:OG1	4:WA:58:LYS:NZ	2.36	0.58
1:Tk:77:VAL:HG21	2:VJ:32:LEU:HD23	1.85	0.58
1:Tx:305:LEU:HD11	2:VO:32:LEU:HG	1.83	0.58
2:VC:77:PHE:HB2	4:Vy:138:LYS:HE2	1.83	0.58
2:VZ:75:LEU:HD22	2:VZ:84:LEU:HD13	1.85	0.58
2:Vg:165:LYS:HE3	2:Vg:168:GLU:HA	1.86	0.58
6:YA:194:ASP:O	6:YG:270:TYR:OH	2.16	0.58
5:Yq:130:GLN:HG3	5:Yr:154:LEU:HD11	1.83	0.58
5:ZA:110:LEU:O	5:ZA:114:MET:HG2	2.03	0.58
5:Zf:131:ILE:HD13	5:Zf:140:ILE:HD11	1.85	0.58
5:aP:131:ILE:HD13	5:aP:140:ILE:HD11	1.85	0.58
5:ap:131:ILE:HD13	5:ap:140:ILE:HD11	1.85	0.58
5:bN:131:ILE:HD13	5:bN:140:ILE:HD11	1.85	0.58
5:bO:112:ASP:OD1	5:bO:115:GLN:NE2	2.35	0.58
5:bP:131:ILE:HD13	5:bP:140:ILE:HD11	1.85	0.58
5:bR:131:ILE:HD13	5:bR:140:ILE:HD11	1.85	0.58
5:bV:131:ILE:HD13	5:bV:140:ILE:HD11	1.85	0.58
5:bn:131:ILE:HD13	5:bn:140:ILE:HD11	1.85	0.58
5:br:131:ILE:HD13	5:br:140:ILE:HD11	1.85	0.58
5:bx:131:ILE:HD13	5:bx:140:ILE:HD11	1.85	0.58
5:cf:131:ILE:HD13	5:cf:140:ILE:HD11	1.85	0.58
5:cz:131:ILE:HD13	5:cz:140:ILE:HD11	1.85	0.58
5:dc:110:LEU:O	5:dc:114:MET:HG2	2.01	0.58
5:eI:58:ARG:NH2	5:er:146:GLU:OE1	2.36	0.58
5:et:131:ILE:HD13	5:et:140:ILE:HD11	1.85	0.58
5:ex:131:ILE:HD13	5:ex:140:ILE:HD11	1.85	0.58
5:fC:110:LEU:O	5:fC:114:MET:HG2	2.01	0.58
5:fF:131:ILE:HD13	5:fF:140:ILE:HD11	1.85	0.58
5:fT:131:ILE:HD13	5:fT:140:ILE:HD11	1.85	0.58
5:fl:131:ILE:HD13	5:fl:140:ILE:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fr:131:ILE:HD13	5:fr:140:ILE:HD11	1.85	0.58
5:gD:131:ILE:HD13	5:gD:140:ILE:HD11	1.85	0.58
1:Av:107:ASP:OD2	1:Av:110:ASN:ND2	2.32	0.58
1:Az:80:ASN:ND2	1:Az:153:PRO:O	2.25	0.58
1:BE:165:ILE:HD13	1:BE:191:LEU:HD23	1.85	0.58
1:BJ:80:ASN:ND2	1:BJ:153:PRO:O	2.36	0.58
2:Bg:52:CYS:SG	1:Eq:66:THR:HG22	2.43	0.58
4:DC:26:GLN:NE2	4:DC:28:ASP:OD1	2.36	0.58
1:FA:307:THR:HG22	2:Gk:32:LEU:HB2	1.85	0.58
2:Gz:100:ASP:HB3	2:Gz:109:THR:HB	1.85	0.58
1:Jy:87:LYS:NZ	2:LX:53:THR:O	2.30	0.58
1:KD:261:ILE:HD12	1:KD:312:LEU:HD23	1.84	0.58
1:KL:261:ILE:HD12	1:KL:312:LEU:HD23	1.83	0.58
1:KY:164:GLN:HE22	1:KY:308:ARG:HA	1.68	0.58
1:LF:261:ILE:HD12	1:LF:312:LEU:HD23	1.85	0.58
1:Oe:307:THR:HG22	2:QO:32:LEU:HB2	1.85	0.58
1:Os:261:ILE:HD12	1:Os:312:LEU:HD23	1.84	0.58
1:Pb:194:GLY:HA3	4:WN:36:ASN:HD22	1.69	0.58
1:Pi:261:ILE:HD12	1:Pi:312:LEU:HD23	1.84	0.58
1:Pn:80:ASN:ND2	1:Pn:153:PRO:O	2.24	0.58
1:Ta:62:ASN:OD1	1:Um:110:ASN:ND2	2.35	0.58
1:UH:110:ASN:ND2	1:UR:62:ASN:OD1	2.35	0.58
1:UT:165:ILE:HD13	1:UT:191:LEU:HD23	1.84	0.58
2:Vj:123:LEU:HD21	2:Vj:131:VAL:HG21	1.85	0.58
4:WK:77:ILE:HG13	4:WK:91:PRO:HB3	1.84	0.58
5:ZC:110:LEU:O	5:ZC:114:MET:HG2	2.02	0.58
5:ZM:103:LEU:HD12	5:ZM:113:ILE:HG23	1.85	0.58
5:ZX:131:ILE:HD13	5:ZX:140:ILE:HD11	1.86	0.58
5:Zi:110:LEU:O	5:Zi:114:MET:HG2	2.03	0.58
5:Zm:110:LEU:O	5:Zm:114:MET:HG2	2.03	0.58
5:aF:131:ILE:HD13	5:aF:140:ILE:HD11	1.85	0.58
5:aL:131:ILE:HD13	5:aL:140:ILE:HD11	1.85	0.58
5:aR:131:ILE:HD13	5:aR:140:ILE:HD11	1.85	0.58
5:aq:110:LEU:O	5:aq:114:MET:HG2	2.02	0.58
5:bC:103:LEU:HD12	5:bC:113:ILE:HG23	1.85	0.58
5:bv:131:ILE:HD13	5:bv:140:ILE:HD11	1.86	0.58
5:cG:112:ASP:OD1	5:cG:115:GLN:NE2	2.36	0.58
5:cP:131:ILE:HD13	5:cP:140:ILE:HD11	1.85	0.58
5:dK:103:LEU:HD12	5:dK:113:ILE:HG23	1.85	0.58
5:dR:94:LEU:HD23	5:dR:124:LYS:HD2	1.86	0.58
5:eA:98:PHE:HB3	5:eA:117:GLN:HE22	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eG:103:LEU:HD12	5:eG:113:ILE:HG23	1.83	0.58
5:eK:103:LEU:HD12	5:eK:113:ILE:HG23	1.84	0.58
5:ec:103:LEU:HD12	5:ec:113:ILE:HG23	1.83	0.58
1:Bb:80:ASN:ND2	1:Bb:153:PRO:O	2.30	0.58
1:Bc:194:GLY:HA3	4:Cs:36:ASN:OD1	2.02	0.58
2:CL:116:ASN:HD21	2:CM:58:LYS:HE2	1.68	0.58
2:CS:165:LYS:HE3	2:CS:168:GLU:HA	1.85	0.58
4:Cq:36:ASN:HD22	1:FJ:195:ASP:H	1.51	0.58
1:FA:143:LYS:HE3	4:Hb:40:ASP:HB2	1.85	0.58
1:FN:79:LEU:HD11	1:FN:305:LEU:HB2	1.84	0.58
1:GA:165:ILE:HD13	1:GA:191:LEU:HD23	1.84	0.58
2:Gb:69:TYR:HB2	2:Gb:101:ILE:HD12	1.85	0.58
2:HN:63:PRO:HB2	2:HN:85:GLU:HG2	1.85	0.58
4:MV:69:TYR:HB2	4:MV:108:ILE:HD12	1.83	0.58
1:PT:87:LYS:NZ	2:Qk:53:THR:O	2.30	0.58
1:Pb:59:THR:O	2:Vh:61:ASN:ND2	2.37	0.58
2:Qe:69:TYR:HB2	2:Qe:101:ILE:HD12	1.85	0.58
2:Qe:116:ASN:HD21	2:Qf:58:LYS:HE2	1.68	0.58
1:Ti:65:ASN:HB2	2:VA:59:ILE:H	1.68	0.58
1:UB:152:LEU:HD21	2:VT:105:SER:HA	1.85	0.58
1:UD:317:LYS:NZ	1:UD:319:SER:OXT	2.34	0.58
1:UR:80:ASN:ND2	1:UR:153:PRO:O	2.36	0.58
5:Yw:110:LEU:O	5:Yw:114:MET:HG2	2.03	0.58
5:ZL:94:LEU:HD23	5:ZL:124:LYS:HD2	1.85	0.58
5:ad:131:ILE:HD13	5:ad:140:ILE:HD11	1.85	0.58
5:af:131:ILE:HD13	5:af:140:ILE:HD11	1.86	0.58
5:al:131:ILE:HD13	5:al:140:ILE:HD11	1.86	0.58
5:an:131:ILE:HD13	5:an:140:ILE:HD11	1.86	0.58
5:bJ:131:ILE:HD13	5:bJ:140:ILE:HD11	1.86	0.58
5:bz:131:ILE:HD13	5:bz:140:ILE:HD11	1.86	0.58
5:cH:94:LEU:HD23	5:cH:124:LYS:HD2	1.86	0.58
5:cl:94:LEU:HD23	5:cl:124:LYS:HD2	1.85	0.58
5:dd:131:ILE:HD13	5:dd:140:ILE:HD11	1.85	0.58
5:dk:86:ILE:HD11	5:dk:118:ARG:HE	1.66	0.58
5:dk:103:LEU:HD12	5:dk:113:ILE:HG23	1.84	0.58
5:fs:103:LEU:HD12	5:fs:113:ILE:HG23	1.84	0.58
5:fx:131:ILE:HD13	5:fx:140:ILE:HD11	1.85	0.58
1:Ak:21:LYS:NZ	1:Av:195:ASP:OD2	2.36	0.58
1:Ar:13:VAL:HG11	1:Ar:103:SER:HA	1.84	0.58
1:At:261:ILE:HD12	1:At:312:LEU:HD23	1.86	0.58
1:Au:164:GLN:HE22	1:Au:308:ARG:HA	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:59:THR:O	2:HO:61:ASN:ND2	2.37	0.58
2:Cc:165:LYS:HE3	2:Cc:168:GLU:HA	1.84	0.58
1:Fi:261:ILE:HD12	1:Fi:312:LEU:HD23	1.86	0.58
1:Js:55:ALA:O	1:Jw:86:TYR:OH	2.17	0.58
1:Jy:286:ASP:HB2	1:Jy:294:HIS:HB2	1.84	0.58
1:KD:286:ASP:HB2	1:KD:294:HIS:HB2	1.85	0.58
1:Ka:80:ASN:ND2	1:Ka:153:PRO:O	2.36	0.58
1:Ku:55:ALA:O	1:PV:86:TYR:OH	2.19	0.58
1:LD:80:ASN:ND2	1:LD:153:PRO:O	2.34	0.58
1:LD:164:GLN:HE22	1:LD:308:ARG:HA	1.67	0.58
2:LR:165:LYS:HE3	2:LR:168:GLU:HA	1.85	0.58
1:Ol:196:GLU:HB3	1:Ol:265:ASN:HD22	1.68	0.58
1:Pq:87:LYS:NZ	2:Qz:53:THR:O	2.35	0.58
2:QR:77:PHE:HD2	4:RL:138:LYS:HE2	1.68	0.58
1:Tq:261:ILE:HD12	1:Tq:312:LEU:HD23	1.85	0.58
1:Ul:165:ILE:HD13	1:Ul:191:LEU:HD23	1.84	0.58
2:VW:180:ASN:O	4:WH:186:ASN:ND2	2.36	0.58
5:YJ:110:LEU:O	5:YJ:114:MET:HG2	2.03	0.58
5:YN:110:LEU:O	5:YN:114:MET:HG2	2.03	0.58
5:Yg:134:ILE:HG22	5:Yg:147:ILE:HG23	1.86	0.58
5:Yl:94:LEU:HD23	5:Yl:124:LYS:HD2	1.85	0.58
5:ZT:131:ILE:HD13	5:ZT:140:ILE:HD11	1.86	0.58
5:ZW:110:LEU:O	5:ZW:114:MET:HG2	2.03	0.58
5:ZZ:131:ILE:HD13	5:ZZ:140:ILE:HD11	1.86	0.58
5:Zl:131:ILE:HD13	5:Zl:140:ILE:HD11	1.85	0.58
5:Zp:131:ILE:HD13	5:Zp:140:ILE:HD11	1.85	0.58
5:aM:103:LEU:HD12	5:aM:113:ILE:HG23	1.85	0.58
5:bL:131:ILE:HD13	5:bL:140:ILE:HD11	1.86	0.58
5:bp:131:ILE:HD13	5:bp:140:ILE:HD11	1.85	0.58
5:bs:110:LEU:O	5:bs:114:MET:HG2	2.02	0.58
5:ch:131:ILE:HD13	5:ch:140:ILE:HD11	1.85	0.58
5:dX:131:ILE:HD13	5:dX:140:ILE:HD11	1.85	0.58
5:di:56:ASN:HB2	5:eQ:146:GLU:H	1.68	0.58
5:ev:131:ILE:HD13	5:ev:140:ILE:HD11	1.85	0.58
5:fB:131:ILE:HD13	5:fB:140:ILE:HD11	1.85	0.58
5:fD:131:ILE:HD13	5:fD:140:ILE:HD11	1.85	0.58
5:fR:131:ILE:HD13	5:fR:140:ILE:HD11	1.85	0.58
5:fn:131:ILE:HD13	5:fn:140:ILE:HD11	1.85	0.58
5:fv:131:ILE:HD13	5:fv:140:ILE:HD11	1.85	0.58
5:fz:131:ILE:HD13	5:fz:140:ILE:HD11	1.85	0.58
1:AL:307:THR:HG22	2:Bv:32:LEU:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:261:ILE:HD12	1:BP:312:LEU:HD23	1.84	0.58
2:Bw:181:ARG:HH12	2:Bx:94:LEU:HB3	1.69	0.58
2:CK:100:ASP:HB3	2:CK:109:THR:HB	1.85	0.58
2:CO:180:ASN:O	4:Cz:186:ASN:ND2	2.36	0.58
1:Fo:65:ASN:ND2	2:HE:57:ASP:O	2.37	0.58
1:Ft:165:ILE:HD13	1:Ft:191:LEU:HD23	1.85	0.58
1:Fx:59:THR:O	2:MD:61:ASN:ND2	2.36	0.58
1:GK:261:ILE:HD12	1:GK:312:LEU:HD23	1.84	0.58
2:Gj:57:ASP:O	1:Jy:65:ASN:ND2	2.37	0.58
1:Jw:196:GLU:HB3	1:Jw:265:ASN:HD22	1.68	0.58
1:LI:261:ILE:HD12	1:LI:312:LEU:HD23	1.86	0.58
2:LP:22:MET:HE3	2:LP:25:PRO:HB3	1.84	0.58
2:Lp:116:ASN:HD21	2:Lq:58:LYS:HE2	1.68	0.58
4:MS:93:VAL:HG21	4:MS:117:ILE:HD11	1.85	0.58
1:OV:55:ALA:O	1:OX:86:TYR:OH	2.20	0.58
1:Op:50:ASP:OD2	2:VA:41:GLN:NE2	2.36	0.58
1:PN:164:GLN:HE22	1:PN:308:ARG:HA	1.69	0.58
1:Px:261:ILE:HD12	1:Px:312:LEU:HD23	1.85	0.58
2:QO:23:LYS:N	2:QO:67:TYR:OH	2.37	0.58
2:Qf:75:LEU:HD22	2:Qf:84:LEU:HD21	1.86	0.58
2:Qp:63:PRO:HB2	2:Qp:85:GLU:HG2	1.85	0.58
2:Qr:63:PRO:HB2	2:Qr:85:GLU:HG2	1.85	0.58
4:RV:26:GLN:NE2	4:RV:28:ASP:OD1	2.36	0.58
1:Tf:92:LYS:NZ	1:Tf:94:THR:OG1	2.37	0.58
1:UC:86:TYR:HE1	1:UI:57:PRO:HA	1.69	0.58
1:UC:164:GLN:HE22	1:UC:308:ARG:HA	1.69	0.58
1:US:164:GLN:HE22	1:US:308:ARG:HA	1.67	0.58
1:Um:261:ILE:HD12	1:Um:312:LEU:HD23	1.85	0.58
2:Va:165:LYS:HE3	2:Va:168:GLU:HA	1.86	0.58
2:Vp:167:THR:HG22	2:Vp:168:GLU:H	1.67	0.58
5:YW:94:LEU:HD23	5:YW:124:LYS:HD2	1.86	0.58
5:YY:94:LEU:HD23	5:YY:124:LYS:HD2	1.85	0.58
5:Yb:127:PRO:O	5:Yb:131:ILE:HG13	2.03	0.58
5:Yf:127:PRO:O	5:Yf:131:ILE:HG13	2.03	0.58
5:Yt:94:LEU:HD23	5:Yt:124:LYS:HD2	1.86	0.58
5:Zb:94:LEU:HD23	5:Zb:124:LYS:HD2	1.86	0.58
5:Zn:131:ILE:HD13	5:Zn:140:ILE:HD11	1.85	0.58
5:aH:131:ILE:HD13	5:aH:140:ILE:HD11	1.86	0.58
5:av:131:ILE:HD13	5:av:140:ILE:HD11	1.86	0.58
5:bD:131:ILE:HD13	5:bD:140:ILE:HD11	1.85	0.58
5:bE:98:PHE:HB3	5:bE:117:GLN:HE22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bF:131:ILE:HD13	5:bF:140:ILE:HD11	1.85	0.58
5:bG:98:PHE:HB3	5:bG:117:GLN:HE22	1.68	0.58
5:bX:94:LEU:HD23	5:bX:124:LYS:HD2	1.86	0.58
5:bd:131:ILE:HD13	5:bd:140:ILE:HD11	1.86	0.58
5:bg:112:ASP:OD1	5:bg:115:GLN:NE2	2.37	0.58
5:cI:112:ASP:OD1	5:cI:115:GLN:NE2	2.37	0.58
5:cN:131:ILE:HD13	5:cN:140:ILE:HD11	1.85	0.58
5:ch:94:LEU:HD23	5:ch:124:LYS:HD2	1.86	0.58
5:cp:131:ILE:HD13	5:cp:140:ILE:HD11	1.86	0.58
5:ct:131:ILE:HD13	5:ct:140:ILE:HD11	1.85	0.58
5:dO:103:LEU:HD12	5:dO:113:ILE:HG23	1.85	0.58
5:dq:103:LEU:HD12	5:dq:113:ILE:HG23	1.85	0.58
5:fL:131:ILE:HD13	5:fL:140:ILE:HD11	1.85	0.58
5:fO:98:PHE:HB3	5:fO:117:GLN:HE22	1.68	0.58
5:fg:103:LEU:HD12	5:fg:113:ILE:HG23	1.84	0.58
5:fi:103:LEU:HD12	5:fi:113:ILE:HG23	1.84	0.58
5:fp:131:ILE:HD13	5:fp:140:ILE:HD11	1.85	0.58
5:ft:131:ILE:HD13	5:ft:140:ILE:HD11	1.85	0.58
1:AX:92:LYS:NZ	1:AX:94:THR:OG1	2.37	0.58
1:Ab:166:LYS:HG2	1:Ab:313:GLN:HE21	1.67	0.58
1:Av:317:LYS:NZ	1:Av:319:SER:OXT	2.34	0.58
1:Bb:261:ILE:HD12	1:Bb:312:LEU:HD23	1.85	0.58
2:CM:75:LEU:HD22	2:CM:84:LEU:HD21	1.85	0.58
1:FM:92:LYS:NZ	1:FM:94:THR:OG1	2.37	0.58
1:FP:65:ASN:HB2	2:Gh:59:ILE:H	1.68	0.58
1:FX:261:ILE:HD12	1:FX:312:LEU:HD23	1.85	0.58
1:FZ:21:LYS:NZ	1:Fk:195:ASP:OD2	2.36	0.58
1:Fj:86:TYR:HE1	1:Fp:57:PRO:HA	1.69	0.58
1:Fw:78:ARG:O	1:Fw:154:ASN:ND2	2.33	0.58
1:Fy:80:ASN:ND2	1:Fy:153:PRO:O	2.36	0.58
1:Fz:164:GLN:HE22	1:Fz:308:ARG:HA	1.67	0.58
2:GV:52:CYS:SG	1:Jf:66:THR:HG22	2.44	0.58
2:Gd:153:LYS:HA	2:Gd:181:ARG:HH21	1.69	0.58
2:HL:63:PRO:HB2	2:HL:85:GLU:HG2	1.85	0.58
4:Hy:77:ILE:HG13	4:Hy:91:PRO:HB3	1.85	0.58
1:Jl:165:ILE:HD13	1:Jl:191:LEU:HD23	1.84	0.58
1:Jz:308:ARG:HH21	2:LR:31:LEU:HB2	1.69	0.58
1:Ke:65:ASN:HB2	2:Lo:59:ILE:H	1.69	0.58
2:MC:165:LYS:HE3	2:MC:168:GLU:HA	1.86	0.58
1:Ol:55:ALA:O	1:Os:86:TYR:OH	2.18	0.58
1:Oo:308:ARG:HH21	2:QG:31:LEU:HB2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PZ:21:LYS:NZ	1:Pa:195:ASP:OD2	2.36	0.58
1:Pn:164:GLN:HE22	1:Pn:308:ARG:HA	1.67	0.58
2:Pz:52:CYS:SG	1:TJ:66:THR:HG22	2.43	0.58
2:QP:125:LYS:HD2	2:QP:169:ASP:HA	1.85	0.58
2:QY:137:LEU:HD11	2:QY:159:ALA:HB2	1.86	0.58
2:Qr:165:LYS:HE3	2:Qr:168:GLU:HA	1.86	0.58
4:RX:69:TYR:HB2	4:RX:108:ILE:HD12	1.85	0.58
1:TT:307:THR:HG22	2:VD:32:LEU:HB2	1.85	0.58
1:Ts:21:LYS:NZ	1:UD:195:ASP:OD2	2.36	0.58
1:UA:62:ASN:OD1	1:UX:110:ASN:ND2	2.36	0.58
1:UF:205:VAL:HG12	1:UF:259:ILE:HG23	1.84	0.58
1:UX:261:ILE:HD12	1:UX:312:LEU:HD23	1.84	0.58
1:Ug:261:ILE:HD12	1:Ug:312:LEU:HD23	1.86	0.58
2:VE:181:ARG:HH12	2:VF:94:LEU:HB3	1.69	0.58
2:VU:75:LEU:HD22	2:VU:84:LEU:HD21	1.86	0.58
5:Ya:55:ILE:HD12	5:ZI:103:LEU:CD2	2.33	0.58
5:Yi:118:ARG:HG3	5:Yi:152:VAL:HG11	1.86	0.58
5:aC:103:LEU:HD12	5:aC:113:ILE:HG23	1.84	0.58
5:aE:98:PHE:HB3	5:aE:117:GLN:HE22	1.68	0.58
5:aZ:131:ILE:HD13	5:aZ:140:ILE:HD11	1.85	0.58
5:al:94:LEU:HD23	5:al:124:LYS:HD2	1.86	0.58
5:bB:131:ILE:HD13	5:bB:140:ILE:HD11	1.85	0.58
5:bQ:112:ASP:OD1	5:bQ:115:GLN:NE2	2.36	0.58
5:bT:131:ILE:HD13	5:bT:140:ILE:HD11	1.86	0.58
5:bb:131:ILE:HD13	5:bb:140:ILE:HD11	1.86	0.58
5:bf:131:ILE:HD13	5:bf:140:ILE:HD11	1.85	0.58
5:bl:131:ILE:HD13	5:bl:140:ILE:HD11	1.85	0.58
5:cB:94:LEU:HD23	5:cB:124:LYS:HD2	1.86	0.58
5:cH:131:ILE:HD13	5:cH:140:ILE:HD11	1.86	0.58
5:dL:94:LEU:HD23	5:dL:124:LYS:HD2	1.86	0.58
5:dk:98:PHE:HB3	5:dk:117:GLN:HE22	1.68	0.58
5:dv:131:ILE:HD13	5:dv:140:ILE:HD11	1.86	0.58
5:fS:112:ASP:OD1	5:fS:115:GLN:NE2	2.37	0.58
5:fd:94:LEU:HD23	5:fd:124:LYS:HD2	1.86	0.58
5:fj:94:LEU:HD23	5:fj:124:LYS:HD2	1.86	0.58
1:AU:161:MET:SD	4:Vy:31:LEU:HD21	2.43	0.58
1:Ac:107:ASP:OD2	1:Ac:110:ASN:ND2	2.27	0.58
1:BO:77:VAL:HG21	2:Ca:32:LEU:HD23	1.86	0.58
1:BQ:59:THR:O	4:Hr:61:ASN:ND2	2.36	0.58
1:BY:261:ILE:HD12	1:BY:312:LEU:HD23	1.86	0.58
1:FK:308:ARG:HH21	2:Gc:31:LEU:HB2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FN:286:ASP:HB2	1:FN:294:HIS:HB2	1.85	0.58
1:FO:286:ASP:HB2	1:FO:294:HIS:HB2	1.85	0.58
2:HQ:123:LEU:HD21	2:HQ:131:VAL:HG21	1.85	0.58
4:Hr:142:ILE:HD11	4:Hr:152:VAL:HG23	1.86	0.58
1:KF:286:ASP:HB2	1:KF:294:HIS:HB2	1.86	0.58
1:KX:261:ILE:HD12	1:KX:312:LEU:HD23	1.86	0.58
2:Lo:100:ASP:HB3	2:Lo:109:THR:HB	1.85	0.58
2:MA:63:PRO:HB2	2:MA:85:GLU:HG2	1.85	0.58
4:MT:93:VAL:HG21	4:MT:117:ILE:HD11	1.85	0.58
1:PO:77:VAL:HG21	2:QY:32:LEU:HD23	1.86	0.58
1:PW:261:ILE:HD12	1:PW:312:LEU:HD23	1.85	0.58
1:PX:307:THR:HG22	2:Qr:32:LEU:HB2	1.85	0.58
1:Pt:286:ASP:HB2	1:Pt:294:HIS:HB2	1.86	0.58
2:QN:57:ASP:O	1:Tc:65:ASN:ND2	2.37	0.58
4:Ra:107:ASP:HB3	4:Ra:116:THR:HB	1.85	0.58
1:UB:261:ILE:HD12	1:UB:312:LEU:HD23	1.86	0.58
1:UL:261:ILE:HD12	1:UL:312:LEU:HD23	1.85	0.58
5:YP:110:LEU:HD12	5:YP:113:ILE:HD12	1.84	0.58
5:Yi:127:PRO:O	5:Yi:131:ILE:HG13	2.03	0.58
5:Yv:94:LEU:HD21	5:Yv:121:LEU:HD23	1.86	0.58
5:ZE:110:LEU:O	5:ZE:114:MET:HG2	2.03	0.58
5:ZG:131:ILE:HD13	5:ZG:140:ILE:HD11	1.85	0.58
5:ZI:86:ILE:HD11	5:ZI:118:ARG:HE	1.69	0.58
5:ZM:86:ILE:HD11	5:ZM:118:ARG:HE	1.67	0.58
5:aN:94:LEU:HD23	5:aN:124:LYS:HD2	1.86	0.58
5:ae:98:PHE:HB3	5:ae:117:GLN:HE22	1.68	0.58
5:ar:94:LEU:HD23	5:ar:124:LYS:HD2	1.86	0.58
5:cE:112:ASP:OD1	5:cE:115:GLN:NE2	2.37	0.58
5:dR:131:ILE:HD13	5:dR:140:ILE:HD11	1.86	0.58
5:dZ:131:ILE:HD13	5:dZ:140:ILE:HD11	1.85	0.58
5:dy:86:ILE:HD11	5:dy:118:ARG:HE	1.68	0.58
5:eL:131:ILE:HD13	5:eL:140:ILE:HD11	1.86	0.58
5:eu:103:LEU:HD12	5:eu:113:ILE:HG23	1.84	0.58
5:fM:98:PHE:HB3	5:fM:117:GLN:HE22	1.69	0.58
5:gD:94:LEU:HD23	5:gD:124:LYS:HD2	1.86	0.58
1:Ax:205:VAL:HG12	1:Ax:259:ILE:HG23	1.84	0.58
1:BI:194:GLY:HA3	4:Hu:36:ASN:HD22	1.69	0.58
1:Bb:317:LYS:NZ	1:Bb:319:SER:OXT	2.37	0.58
2:Bw:125:LYS:HD2	2:Bw:169:ASP:HA	1.85	0.58
1:Fp:87:LYS:NZ	2:HG:53:THR:O	2.30	0.58
1:GD:77:VAL:HG21	2:HP:32:LEU:HD23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gk:23:LYS:N	2:Gk:67:TYR:OH	2.37	0.58
1:Jp:307:THR:HG22	2:LZ:32:LEU:HB2	1.85	0.58
1:Jr:80:ASN:ND2	1:Jr:153:PRO:O	2.34	0.58
1:KE:65:ASN:HB2	2:LW:59:ILE:H	1.68	0.58
1:LE:286:ASP:HB2	1:LE:294:HIS:HB2	1.85	0.58
2:Lq:75:LEU:HD22	2:Lq:84:LEU:HD21	1.86	0.58
2:MF:123:LEU:HD21	2:MF:131:VAL:HG21	1.85	0.58
4:MY:93:VAL:HG21	4:MY:117:ILE:HD11	1.86	0.58
1:Tc:286:ASP:HB2	1:Tc:294:HIS:HB2	1.84	0.58
1:Tw:54:ASN:HB3	2:VT:51:VAL:HG12	1.86	0.58
1:UW:165:ILE:HD13	1:UW:191:LEU:HD23	1.84	0.58
1:Uc:164:GLN:HE22	1:Uc:308:ARG:HA	1.67	0.58
2:VN:137:LEU:HD11	2:VN:159:ALA:HB2	1.86	0.58
6:YH:200:LEU:HD12	6:YH:256:LEU:HD21	1.86	0.58
5:YW:94:LEU:HD21	5:YW:121:LEU:HD23	1.86	0.58
5:YZ:55:ILE:CG1	5:ZO:116:ALA:HB3	2.31	0.58
5:Yi:94:LEU:HD21	5:Yi:121:LEU:HD23	1.86	0.58
5:ZM:55:ILE:HG21	5:ZU:116:ALA:HB2	1.85	0.58
5:Zd:94:LEU:HD23	5:Zd:124:LYS:HD2	1.86	0.58
5:Zh:94:LEU:HD23	5:Zh:124:LYS:HD2	1.86	0.58
5:aC:112:ASP:OD1	5:aC:115:GLN:NE2	2.37	0.58
5:aD:131:ILE:HD13	5:aD:140:ILE:HD11	1.86	0.58
5:aI:55:ILE:O	5:aI:59:ILE:HG12	2.04	0.58
5:be:112:ASP:OD1	5:be:115:GLN:NE2	2.37	0.58
5:cJ:131:ILE:HD13	5:cJ:140:ILE:HD11	1.85	0.58
5:cR:131:ILE:HD13	5:cR:140:ILE:HD11	1.85	0.58
5:cx:131:ILE:HD13	5:cx:140:ILE:HD11	1.85	0.58
5:dV:131:ILE:HD13	5:dV:140:ILE:HD11	1.85	0.58
5:dh:131:ILE:HD13	5:dh:140:ILE:HD11	1.86	0.58
5:dv:94:LEU:HD23	5:dv:124:LYS:HD2	1.86	0.58
5:dz:131:ILE:HD13	5:dz:140:ILE:HD11	1.86	0.58
5:ez:94:LEU:HD23	5:ez:124:LYS:HD2	1.86	0.58
5:fN:131:ILE:HD13	5:fN:140:ILE:HD11	1.85	0.58
5:fQ:103:LEU:HD12	5:fQ:113:ILE:HG23	1.84	0.58
5:fa:103:LEU:HD12	5:fa:113:ILE:HG23	1.84	0.58
1:BE:307:THR:HG22	2:CY:32:LEU:HB2	1.85	0.58
2:Bo:153:LYS:HA	2:Bo:181:ARG:HH21	1.69	0.58
2:CY:165:LYS:HE3	2:CY:168:GLU:HA	1.85	0.58
4:DB:77:ILE:HG13	4:DB:91:PRO:HB3	1.86	0.58
4:DE:69:TYR:HB2	4:DE:108:ILE:HD12	1.85	0.58
1:Ew:165:ILE:HD13	1:Ew:191:LEU:HD23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fj:164:GLN:HE22	1:Fj:308:ARG:HA	1.69	0.58
1:GQ:317:LYS:NZ	1:GQ:319:SER:OXT	2.37	0.58
1:GS:165:ILE:HD13	1:GS:191:LEU:HD23	1.84	0.58
2:Gu:137:LEU:HD11	2:Gu:159:ALA:HB2	1.86	0.58
2:HH:165:LYS:HE3	2:HH:168:GLU:HA	1.86	0.58
2:HR:165:LYS:HE3	2:HR:168:GLU:HA	1.84	0.58
4:Hq:77:ILE:HG13	4:Hq:91:PRO:HB3	1.86	0.58
1:Jp:143:LYS:HE3	4:MQ:40:ASP:HB2	1.85	0.58
1:Kv:55:ALA:O	1:Ky:86:TYR:OH	2.19	0.58
1:LF:86:TYR:OH	1:LH:55:ALA:O	2.18	0.58
2:LZ:23:LYS:N	2:LZ:67:TYR:OH	2.37	0.58
2:Lj:137:LEU:HD11	2:Lj:159:ALA:HB2	1.86	0.58
4:Mg:26:GLN:NE2	4:Mg:28:ASP:OD1	2.36	0.58
1:OV:107:ASP:OD2	1:OV:110:ASN:ND2	2.36	0.58
1:PN:80:ASN:ND2	1:PN:153:PRO:O	2.30	0.58
1:PS:65:ASN:ND2	2:Qi:57:ASP:O	2.37	0.58
1:Pb:244:ARG:NH2	1:UT:231:GLU:OE2	2.34	0.58
2:QM:125:LYS:NZ	2:QM:169:ASP:OD1	2.36	0.58
2:Qa:137:LEU:HD11	2:Qa:159:ALA:HB2	1.86	0.58
1:Td:308:ARG:HH21	2:Uv:31:LEU:HB2	1.69	0.58
1:UH:65:ASN:ND2	2:VX:57:ASP:O	2.37	0.58
1:US:140:SER:HB2	1:US:148:GLN:HG2	1.84	0.58
2:VC:23:LYS:N	2:VC:67:TYR:OH	2.37	0.58
2:VD:23:LYS:N	2:VD:67:TYR:OH	2.37	0.58
2:VS:100:ASP:HB3	2:VS:109:THR:HB	1.85	0.58
4:WJ:107:ASP:HB3	4:WJ:116:THR:HB	1.86	0.58
4:WK:26:GLN:NE2	4:WK:28:ASP:OD1	2.36	0.58
4:WR:77:ILE:HG13	4:WR:91:PRO:HB3	1.85	0.58
5:Yx:126:VAL:HG22	5:Yx:154:LEU:HG	1.86	0.58
5:ZL:135:ALA:HB1	5:ZL:143:ILE:HG12	1.86	0.58
5:ZR:131:ILE:HD13	5:ZR:140:ILE:HD11	1.86	0.58
5:Zm:112:ASP:OD1	5:Zm:115:GLN:NE2	2.37	0.58
5:Zn:94:LEU:HD23	5:Zn:124:LYS:HD2	1.86	0.58
5:Zr:131:ILE:HD13	5:Zr:140:ILE:HD11	1.86	0.58
5:Zt:131:ILE:HD13	5:Zt:140:ILE:HD11	1.86	0.58
5:Zv:131:ILE:HD13	5:Zv:140:ILE:HD11	1.86	0.58
5:aA:112:ASP:OD1	5:aA:115:GLN:NE2	2.37	0.58
5:aG:103:LEU:HD12	5:aG:113:ILE:HG23	1.85	0.58
5:aX:131:ILE:HD13	5:aX:140:ILE:HD11	1.85	0.58
5:ab:131:ILE:HD13	5:ab:140:ILE:HD11	1.86	0.58
5:ax:131:ILE:HD13	5:ax:140:ILE:HD11	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:az:131:ILE:HD13	5:az:140:ILE:HD11	1.86	0.58
5:bR:94:LEU:HD23	5:bR:124:LYS:HD2	1.86	0.58
5:bh:131:ILE:HD13	5:bh:140:ILE:HD11	1.85	0.58
5:cT:131:ILE:HD13	5:cT:140:ILE:HD11	1.86	0.58
5:cv:131:ILE:HD13	5:cv:140:ILE:HD11	1.85	0.58
5:dG:98:PHE:HB3	5:dG:117:GLN:HE22	1.68	0.58
5:db:131:ILE:HD13	5:db:140:ILE:HD11	1.86	0.58
5:df:131:ILE:HD13	5:df:140:ILE:HD11	1.85	0.58
5:dj:131:ILE:HD13	5:dj:140:ILE:HD11	1.86	0.58
5:dx:94:LEU:HD23	5:dx:124:LYS:HD2	1.86	0.58
5:eF:131:ILE:HD13	5:eF:140:ILE:HD11	1.86	0.58
5:eT:94:LEU:HD23	5:eT:124:LYS:HD2	1.86	0.58
5:eg:98:PHE:HB3	5:eg:117:GLN:HE22	1.69	0.58
5:ep:94:LEU:HD23	5:ep:124:LYS:HD2	1.86	0.58
5:et:94:LEU:HD23	5:et:124:LYS:HD2	1.86	0.58
5:ev:94:LEU:HD23	5:ev:124:LYS:HD2	1.85	0.58
5:ez:131:ILE:HD13	5:ez:140:ILE:HD11	1.86	0.58
5:fB:94:LEU:HD23	5:fB:124:LYS:HD2	1.85	0.58
5:fQ:98:PHE:HB3	5:fQ:117:GLN:HE22	1.69	0.58
5:fz:94:LEU:HD23	5:fz:124:LYS:HD2	1.86	0.58
1:AB:66:THR:HG22	2:Uo:52:CYS:SG	2.43	0.58
1:AU:65:ASN:ND2	2:VC:57:ASP:O	2.37	0.58
1:AY:286:ASP:HB2	1:AY:294:HIS:HB2	1.85	0.58
1:Ao:54:ASN:HB3	2:CL:51:VAL:HG12	1.86	0.58
1:Ba:286:ASP:HB2	1:Ba:294:HIS:HB2	1.85	0.58
2:CF:137:LEU:HD11	2:CF:159:ALA:HB2	1.86	0.58
2:CY:63:PRO:HB2	2:CY:85:GLU:HG2	1.86	0.58
1:Ff:152:LEU:HD21	2:Gx:105:SER:HA	1.86	0.58
1:Fp:65:ASN:HB2	2:Gz:59:ILE:H	1.69	0.58
1:Fp:261:ILE:HD12	1:Fp:312:LEU:HD23	1.86	0.58
1:Ft:307:THR:HG22	2:HN:32:LEU:HB2	1.85	0.58
4:Hf:36:ASN:HD22	1:Jy:195:ASP:H	1.51	0.58
2:La:125:LYS:HD2	2:La:169:ASP:HA	1.85	0.58
2:Lw:165:LYS:HE3	2:Lw:168:GLU:HA	1.86	0.58
1:Op:55:ALA:O	1:Tb:86:TYR:OH	2.22	0.58
1:Ou:286:ASP:HB2	1:Ou:294:HIS:HB2	1.86	0.58
1:PM:261:ILE:HD12	1:PM:312:LEU:HD23	1.86	0.58
1:PX:165:ILE:HD13	1:PX:191:LEU:HD23	1.85	0.58
1:Pa:87:LYS:NZ	2:Qq:53:THR:O	2.33	0.58
1:Ph:77:VAL:HG21	2:Qt:32:LEU:HD23	1.86	0.58
1:Pj:87:LYS:NZ	2:Qu:53:THR:O	2.26	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pk:55:ALA:O	1:Pn:86:TYR:OH	2.19	0.58
1:Pr:261:ILE:HD12	1:Pr:312:LEU:HD23	1.86	0.58
1:Pu:261:ILE:HD12	1:Pu:312:LEU:HD23	1.85	0.58
4:RN:93:VAL:HG21	4:RN:117:ILE:HD11	1.86	0.58
4:RU:107:ASP:HB3	4:RU:116:THR:HB	1.86	0.58
4:RZ:107:ASP:OD1	1:UJ:62:ASN:ND2	2.36	0.58
1:TT:143:LYS:HE3	4:Vu:40:ASP:HB2	1.85	0.58
1:TV:80:ASN:ND2	1:TV:153:PRO:O	2.34	0.58
1:UC:89:ARG:HH21	1:UC:112:LEU:HD21	1.69	0.58
2:Uv:165:LYS:HE3	2:Uv:168:GLU:HA	1.85	0.58
2:VK:69:TYR:HB2	2:VK:101:ILE:HD12	1.86	0.58
2:Vd:75:LEU:HD22	2:Vd:84:LEU:HD13	1.86	0.58
4:WJ:77:ILE:HG13	4:WJ:91:PRO:HB3	1.86	0.58
4:WP:107:ASP:HB3	4:WP:116:THR:HB	1.85	0.58
6:Xx:194:ASP:O	6:YI:270:TYR:OH	2.20	0.58
5:YK:110:LEU:O	5:YK:114:MET:HG2	2.03	0.58
5:YR:112:ASP:OD1	5:YR:115:GLN:NE2	2.37	0.58
5:Yi:94:LEU:HD23	5:Yi:124:LYS:HD2	1.86	0.58
5:ZI:110:LEU:O	5:ZI:114:MET:HG2	2.04	0.58
5:aK:55:ILE:O	5:aK:59:ILE:HG12	2.04	0.58
5:aT:131:ILE:HD13	5:aT:140:ILE:HD11	1.86	0.58
5:at:94:LEU:HD23	5:at:124:LYS:HD2	1.86	0.58
5:bV:94:LEU:HD23	5:bV:124:LYS:HD2	1.86	0.58
5:bc:112:ASP:OD1	5:bc:115:GLN:NE2	2.37	0.58
5:bd:94:LEU:HD23	5:bd:124:LYS:HD2	1.86	0.58
5:bv:94:LEU:HD23	5:bv:124:LYS:HD2	1.86	0.58
5:cL:131:ILE:HD13	5:cL:140:ILE:HD11	1.86	0.58
5:cf:94:LEU:HD23	5:cf:124:LYS:HD2	1.86	0.58
5:dF:94:LEU:HD23	5:dF:124:LYS:HD2	1.86	0.58
5:dU:103:LEU:HD12	5:dU:113:ILE:HG23	1.86	0.58
5:ds:56:ASN:HB2	5:ea:146:GLU:H	1.68	0.58
5:du:56:ASN:HB2	5:ec:146:GLU:H	1.69	0.58
5:eA:112:ASP:OD1	5:eA:115:GLN:NE2	2.37	0.58
5:eV:94:LEU:HD23	5:eV:124:LYS:HD2	1.86	0.58
5:fF:94:LEU:HD23	5:fF:124:LYS:HD2	1.86	0.58
5:fJ:94:LEU:HD23	5:fJ:124:LYS:HD2	1.85	0.58
5:fP:131:ILE:HD13	5:fP:140:ILE:HD11	1.86	0.58
5:fT:94:LEU:HD23	5:fT:124:LYS:HD2	1.86	0.58
5:fb:94:LEU:HD23	5:fb:124:LYS:HD2	1.85	0.58
1:Ab:284:GLN:NE2	1:Ab:286:ASP:OD1	2.35	0.57
1:BN:80:ASN:ND2	1:BN:153:PRO:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DC:142:ILE:HD11	4:DC:152:VAL:HG23	1.86	0.57
1:Fd:54:ASN:HB3	2:HA:51:VAL:HG12	1.86	0.57
1:Fz:257:HIS:CE1	1:Fz:318:GLN:HG3	2.39	0.57
2:HN:165:LYS:HE3	2:HN:168:GLU:HA	1.85	0.57
3:HY:102:THR:HG22	4:Hj:56:PHE:HD1	1.68	0.57
1:KN:178:ASP:OD1	1:KN:179:LYS:N	2.37	0.57
1:LH:59:THR:O	4:Mn:61:ASN:ND2	2.37	0.57
4:Mg:142:ILE:HD11	4:Mg:152:VAL:HG23	1.86	0.57
1:Oa:165:ILE:HD13	1:Oa:191:LEU:HD23	1.84	0.57
1:On:286:ASP:HB2	1:On:294:HIS:HB2	1.84	0.57
1:PN:86:TYR:HE1	1:PT:57:PRO:HA	1.69	0.57
2:QN:23:LYS:N	2:QN:67:TYR:OH	2.37	0.57
2:QP:77:PHE:HD2	4:RK:138:LYS:HG3	1.69	0.57
2:Qd:100:ASP:HB3	2:Qd:109:THR:HB	1.85	0.57
1:Ta:59:THR:O	4:WA:61:ASN:ND2	2.37	0.57
5:Yg:112:ASP:OD1	5:Yg:115:GLN:NE2	2.37	0.57
5:Yj:98:PHE:HB3	5:Yj:117:GLN:HE22	1.69	0.57
5:ZF:94:LEU:HD23	5:ZF:124:LYS:HD2	1.85	0.57
5:Zw:98:PHE:HB3	5:Zw:117:GLN:HE22	1.69	0.57
5:aG:98:PHE:HB3	5:aG:117:GLN:HE22	1.68	0.57
5:aH:94:LEU:HD23	5:aH:124:LYS:HD2	1.86	0.57
5:ax:94:LEU:HD23	5:ax:124:LYS:HD2	1.86	0.57
5:bP:94:LEU:HD23	5:bP:124:LYS:HD2	1.86	0.57
5:bh:94:LEU:HD23	5:bh:124:LYS:HD2	1.86	0.57
5:bz:94:LEU:HD23	5:bz:124:LYS:HD2	1.86	0.57
5:cC:112:ASP:OD1	5:cC:115:GLN:NE2	2.37	0.57
5:cb:94:LEU:HD23	5:cb:124:LYS:HD2	1.86	0.57
5:cr:94:LEU:HD23	5:cr:124:LYS:HD2	1.86	0.57
5:dE:98:PHE:HB3	5:dE:117:GLN:HE22	1.69	0.57
5:dU:112:ASP:OD1	5:dU:115:GLN:NE2	2.37	0.57
5:di:58:ARG:NH2	5:eR:146:GLU:OE1	2.35	0.57
5:dl:94:LEU:HD23	5:dl:124:LYS:HD2	1.86	0.57
5:dr:131:ILE:HD13	5:dr:140:ILE:HD11	1.86	0.57
5:du:112:ASP:OD1	5:du:115:GLN:NE2	2.37	0.57
5:dy:111:LYS:HZ2	5:eB:74:LYS:HE3	1.69	0.57
5:dy:112:ASP:OD1	5:dy:115:GLN:NE2	2.37	0.57
5:eB:131:ILE:HD13	5:eB:140:ILE:HD11	1.86	0.57
5:eC:86:ILE:HD11	5:eC:118:ARG:HE	1.68	0.57
5:eG:58:ARG:NH2	5:ep:146:GLU:OE1	2.36	0.57
5:eK:58:ARG:NH2	5:eN:146:GLU:OE1	2.36	0.57
5:eP:94:LEU:HD23	5:eP:124:LYS:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eS:98:PHE:HB3	5:eS:117:GLN:HE22	1.68	0.57
5:eq:103:LEU:HD12	5:eq:113:ILE:HG23	1.85	0.57
5:ex:94:LEU:HD23	5:ex:124:LYS:HD2	1.86	0.57
5:fX:94:LEU:HD23	5:fX:124:LYS:HD2	1.86	0.57
5:fZ:94:LEU:HD23	5:fZ:124:LYS:HD2	1.86	0.57
5:fe:103:LEU:HD12	5:fe:113:ILE:HG23	1.84	0.57
5:ff:94:LEU:HD23	5:ff:124:LYS:HD2	1.86	0.57
5:fp:94:LEU:HD23	5:fp:124:LYS:HD2	1.86	0.57
1:Au:86:TYR:HE1	1:BA:57:PRO:HA	1.69	0.57
1:BA:65:ASN:HB2	2:CK:59:ILE:H	1.69	0.57
1:BU:164:GLN:HE22	1:BU:308:ARG:HA	1.67	0.57
2:Bu:57:ASP:O	1:FJ:65:ASN:ND2	2.37	0.57
1:FC:80:ASN:ND2	1:FC:153:PRO:O	2.34	0.57
1:Fg:227:CYS:SG	1:Fg:228:GLU:N	2.71	0.57
1:GC:87:LYS:NZ	2:HF:53:THR:O	2.36	0.57
1:GK:86:TYR:OH	1:GL:55:ALA:O	2.19	0.57
2:HB:181:ARG:NH1	2:HB:182:ALA:O	2.37	0.57
1:Kt:164:GLN:HE22	1:Kt:308:ARG:HA	1.69	0.57
1:LA:165:ILE:HD13	1:LA:191:LEU:HD23	1.86	0.57
1:LD:261:ILE:HD12	1:LD:312:LEU:HD23	1.84	0.57
1:PB:261:ILE:HD12	1:PB:312:LEU:HD23	1.85	0.57
2:QG:165:LYS:HE3	2:QG:168:GLU:HA	1.85	0.57
2:Qw:77:PHE:HD2	4:Ra:138:LYS:HE2	1.69	0.57
4:RU:77:ILE:HG13	4:RU:91:PRO:HB3	1.86	0.57
1:UM:165:ILE:HD13	1:UM:191:LEU:HD23	1.85	0.57
1:UM:307:THR:HG22	2:Vg:32:LEU:HB2	1.85	0.57
1:Uj:261:ILE:HD12	1:Uj:312:LEU:HD23	1.85	0.57
2:VT:116:ASN:HD21	2:VU:58:LYS:HE2	1.68	0.57
4:WM:69:TYR:HB2	4:WM:108:ILE:HD12	1.85	0.57
6:Xx:192:TYR:HE2	6:Xx:197:LEU:HD13	1.69	0.57
6:YA:197:LEU:O	6:YA:201:GLN:HG2	2.04	0.57
5:YN:81:GLU:HA	5:YN:84:ASN:HD21	1.69	0.57
5:YR:70:GLU:HG3	5:Yj:137:VAL:HG21	1.87	0.57
5:Yn:94:LEU:HD21	5:Yn:121:LEU:HD23	1.86	0.57
5:Yo:103:LEU:HD12	5:Yo:113:ILE:HG23	1.86	0.57
5:ZD:94:LEU:HD23	5:ZD:124:LYS:HD2	1.84	0.57
5:ZD:129:GLU:HA	5:ZD:132:LYS:HE2	1.86	0.57
5:ZJ:94:LEU:HD23	5:ZJ:124:LYS:HD2	1.85	0.57
5:ZX:94:LEU:HD23	5:ZX:124:LYS:HD2	1.86	0.57
5:Zj:94:LEU:HD23	5:Zj:124:LYS:HD2	1.86	0.57
5:aE:112:ASP:OD1	5:aE:115:GLN:NE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:aR:94:LEU:HD23	5:aR:124:LYS:HD2	1.86	0.57
5:aV:131:ILE:HD13	5:aV:140:ILE:HD11	1.85	0.57
5:ac:112:ASP:OD1	5:ac:115:GLN:NE2	2.37	0.57
5:bH:131:ILE:HD13	5:bH:140:ILE:HD11	1.86	0.57
5:bL:94:LEU:HD23	5:bL:124:LYS:HD2	1.86	0.57
5:bj:131:ILE:HD13	5:bj:140:ILE:HD11	1.85	0.57
5:cn:94:LEU:HD23	5:cn:124:LYS:HD2	1.86	0.57
5:dJ:94:LEU:HD23	5:dJ:124:LYS:HD2	1.86	0.57
5:dP:94:LEU:HD23	5:dP:124:LYS:HD2	1.86	0.57
5:dX:94:LEU:HD23	5:dX:124:LYS:HD2	1.86	0.57
5:dn:131:ILE:HD13	5:dn:140:ILE:HD11	1.87	0.57
5:dp:131:ILE:HD13	5:dp:140:ILE:HD11	1.86	0.57
5:dr:94:LEU:HD23	5:dr:124:LYS:HD2	1.86	0.57
5:eD:131:ILE:HD13	5:eD:140:ILE:HD11	1.86	0.57
5:eN:94:LEU:HD23	5:eN:124:LYS:HD2	1.86	0.57
5:eg:103:LEU:HD12	5:eg:113:ILE:HG23	1.83	0.57
1:AN:80:ASN:ND2	1:AN:153:PRO:O	2.34	0.57
1:BK:257:HIS:CE1	1:BK:318:GLN:HG3	2.39	0.57
2:CC:69:TYR:HB2	2:CC:101:ILE:HD12	1.86	0.57
1:FM:161:MET:SD	2:Gl:31:LEU:HD21	2.44	0.57
2:Gl:181:ARG:HH12	2:Gm:94:LEU:HB3	1.69	0.57
4:Hw:107:ASP:HB3	4:Hw:116:THR:HB	1.85	0.57
1:KB:92:LYS:NZ	1:KB:94:THR:OG1	2.37	0.57
1:Kk:86:TYR:OH	1:Kl:55:ALA:O	2.18	0.57
1:Kz:261:ILE:HD12	1:Kz:312:LEU:HD23	1.84	0.57
2:LQ:69:TYR:HB2	2:LQ:101:ILE:HD12	1.85	0.57
2:LY:57:ASP:O	1:On:65:ASN:ND2	2.37	0.57
2:Lg:69:TYR:HB2	2:Lg:101:ILE:HD12	1.86	0.57
1:PH:54:ASN:HB3	2:Qe:51:VAL:HG12	1.86	0.57
1:Pi:164:GLN:HE22	1:Pi:308:ARG:HA	1.69	0.57
2:QP:181:ARG:HH12	2:QQ:94:LEU:HB3	1.68	0.57
1:UD:77:VAL:HG21	2:VN:32:LEU:HD23	1.86	0.57
1:UG:79:LEU:HD11	1:UG:305:LEU:HB2	1.84	0.57
1:Uj:317:LYS:NZ	1:Uj:319:SER:OXT	2.37	0.57
2:VB:125:LYS:NZ	2:VB:169:ASP:OD1	2.36	0.57
2:Vh:75:LEU:HD22	2:Vh:84:LEU:HD13	1.86	0.57
4:Vw:93:VAL:HG21	4:Vw:117:ILE:HD11	1.85	0.57
4:WL:141:LEU:HD11	4:WL:165:ALA:HB2	1.87	0.57
6:YI:273:THR:HG22	6:YI:275:SER:H	1.68	0.57
5:YY:127:PRO:O	5:YY:131:ILE:HG13	2.04	0.57
5:ZE:103:LEU:HD12	5:ZE:113:ILE:HG23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Zy:103:LEU:HD12	5:Zy:113:ILE:HG23	1.84	0.57
5:aT:94:LEU:HD23	5:aT:124:LYS:HD2	1.86	0.57
5:bb:94:LEU:HD23	5:bb:124:LYS:HD2	1.86	0.57
5:cK:112:ASP:OD1	5:cK:115:GLN:NE2	2.37	0.57
5:cL:94:LEU:HD23	5:cL:124:LYS:HD2	1.86	0.57
5:cV:94:LEU:HD23	5:cV:124:LYS:HD2	1.86	0.57
5:dA:98:PHE:HB3	5:dA:117:GLN:HE22	1.69	0.57
5:dQ:103:LEU:HD12	5:dQ:113:ILE:HG23	1.86	0.57
5:eL:94:LEU:HD23	5:eL:124:LYS:HD2	1.86	0.57
5:en:94:LEU:HD23	5:en:124:LYS:HD2	1.86	0.57
5:fD:94:LEU:HD23	5:fD:124:LYS:HD2	1.86	0.57
5:fP:94:LEU:HD23	5:fP:124:LYS:HD2	1.85	0.57
5:fk:103:LEU:HD12	5:fk:113:ILE:HG23	1.84	0.57
5:fw:103:LEU:HD12	5:fw:113:ILE:HG23	1.84	0.57
1:AZ:165:ILE:HD13	1:AZ:191:LEU:HD23	1.87	0.57
1:Az:65:ASN:ND2	2:CP:57:ASP:O	2.37	0.57
1:BA:261:ILE:HD12	1:BA:312:LEU:HD23	1.86	0.57
2:Bv:23:LYS:N	2:Bv:67:TYR:OH	2.37	0.57
2:CM:181:ARG:NH1	2:CM:182:ALA:O	2.37	0.57
2:Cg:165:LYS:HE3	2:Cg:168:GLU:HA	1.87	0.57
4:DJ:77:ILE:HG13	4:DJ:91:PRO:HB3	1.85	0.57
1:FO:25:MET:HE1	1:FO:130:ILE:HG22	1.87	0.57
2:HA:116:ASN:HD21	2:HB:58:LYS:HE2	1.68	0.57
4:Hn:44:GLU:CD	4:Hn:45:PHE:H	2.13	0.57
1:Jg:55:ALA:O	1:Ji:86:TYR:OH	2.20	0.57
1:KD:25:MET:HE1	1:KD:130:ILE:HG22	1.87	0.57
2:MD:75:LEU:HD22	2:MD:84:LEU:HD13	1.86	0.57
4:Mc:44:GLU:CD	4:Mc:45:PHE:H	2.13	0.57
1:Oq:92:LYS:NZ	1:Oq:94:THR:OG1	2.37	0.57
1:Os:286:ASP:HB2	1:Os:294:HIS:HB2	1.85	0.57
2:Qf:137:LEU:HD11	2:Qf:159:ALA:HB2	1.87	0.57
2:Qs:167:THR:HG22	2:Qs:168:GLU:H	1.70	0.57
4:RR:44:GLU:CD	4:RR:45:PHE:H	2.13	0.57
1:Th:25:MET:HE1	1:Th:130:ILE:HG22	1.87	0.57
1:UG:85:GLN:HE22	1:UW:289:SER:HB2	1.70	0.57
1:UX:164:GLN:HE22	1:UX:308:ARG:HA	1.69	0.57
2:VG:77:PHE:HD2	4:WA:138:LYS:HE2	1.69	0.57
2:VT:137:LEU:HD11	2:VT:159:ALA:HB2	1.87	0.57
4:WG:44:GLU:CD	4:WG:45:PHE:H	2.13	0.57
4:WK:142:ILE:HD11	4:WK:152:VAL:HG23	1.86	0.57
5:Yu:135:ALA:HB2	5:Yu:151:LEU:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yy:110:LEU:O	5:Yy:114:MET:HG2	2.05	0.57
5:Yz:94:LEU:HD23	5:Yz:124:LYS:HD2	1.85	0.57
5:ZN:110:LEU:HD22	5:ZO:73:GLU:HG2	1.86	0.57
5:ZR:94:LEU:HD23	5:ZR:124:LYS:HD2	1.86	0.57
5:ZV:94:LEU:HD23	5:ZV:124:LYS:HD2	1.86	0.57
5:aB:94:LEU:HD23	5:aB:124:LYS:HD2	1.87	0.57
5:aE:111:LYS:HZ2	5:aH:74:LYS:HE3	1.69	0.57
5:aG:112:ASP:OD1	5:aG:115:GLN:NE2	2.37	0.57
5:bC:98:PHE:HB3	5:bC:117:GLN:HE22	1.69	0.57
5:bi:112:ASP:OD1	5:bi:115:GLN:NE2	2.38	0.57
5:bp:94:LEU:HD23	5:bp:124:LYS:HD2	1.86	0.57
5:cD:94:LEU:HD23	5:cD:124:LYS:HD2	1.86	0.57
5:cZ:94:LEU:HD23	5:cZ:124:LYS:HD2	1.87	0.57
5:dE:103:LEU:HD12	5:dE:113:ILE:HG23	1.85	0.57
5:dI:112:ASP:OD1	5:dI:115:GLN:NE2	2.36	0.57
5:dM:103:LEU:HD12	5:dM:113:ILE:HG23	1.85	0.57
5:df:94:LEU:HD23	5:df:124:LYS:HD2	1.86	0.57
5:dj:94:LEU:HD23	5:dj:124:LYS:HD2	1.87	0.57
5:dp:94:LEU:HD23	5:dp:124:LYS:HD2	1.87	0.57
5:dx:131:ILE:HD13	5:dx:140:ILE:HD11	1.86	0.57
5:eC:103:LEU:HD12	5:eC:113:ILE:HG23	1.85	0.57
5:eU:103:LEU:HD12	5:eU:113:ILE:HG23	1.84	0.57
5:ey:103:LEU:HD12	5:ey:113:ILE:HG23	1.85	0.57
5:fl:94:LEU:HD23	5:fl:124:LYS:HD2	1.86	0.57
1:AZ:25:MET:HE1	1:AZ:130:ILE:HG22	1.87	0.57
1:Au:89:ARG:HH21	1:Au:112:LEU:HD21	1.69	0.57
1:BK:140:SER:HB2	1:BK:148:GLN:HG2	1.84	0.57
1:BM:317:LYS:NZ	1:BM:319:SER:OXT	2.38	0.57
1:BN:87:LYS:NZ	2:CQ:53:THR:O	2.36	0.57
1:BP:164:GLN:HE22	1:BP:308:ARG:HA	1.69	0.57
1:BW:165:ILE:HD13	1:BW:191:LEU:HD23	1.86	0.57
1:Ba:79:LEU:HD11	1:Ba:305:LEU:HB2	1.87	0.57
2:Bm:69:TYR:HB2	2:Bm:101:ILE:HD12	1.85	0.57
2:Bm:137:LEU:HD11	2:Bm:159:ALA:HB2	1.86	0.57
1:FB:20:VAL:O	5:IL:213:ARG:NH2	2.33	0.57
1:FQ:286:ASP:HB2	1:FQ:294:HIS:HB2	1.86	0.57
1:Fn:87:LYS:NZ	4:Hp:53:THR:O	2.36	0.57
1:GN:261:ILE:HD12	1:GN:312:LEU:HD23	1.86	0.57
1:GS:87:LYS:NZ	2:Gl:53:THR:O	2.26	0.57
1:Kd:65:ASN:ND2	2:Lt:57:ASP:O	2.37	0.57
1:Ki:307:THR:HG22	2:MC:32:LEU:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Km:59:THR:O	2:Qs:61:ASN:ND2	2.37	0.57
2:Lq:181:ARG:NH1	2:Lq:182:ALA:O	2.37	0.57
2:MB:181:ARG:HH12	2:MC:94:LEU:HB3	1.68	0.57
1:PC:178:ASP:OD1	1:PC:179:LYS:N	2.37	0.57
1:PN:89:ARG:HH21	1:PN:112:LEU:HD21	1.69	0.57
1:Pp:165:ILE:HD13	1:Pp:191:LEU:HD23	1.86	0.57
1:Ps:55:ALA:O	1:Pv:86:TYR:OH	2.18	0.57
1:Pu:317:LYS:NZ	1:Pu:319:SER:OXT	2.37	0.57
1:Td:77:VAL:HG21	2:Uv:32:LEU:HD23	1.86	0.57
1:Tf:55:ALA:O	1:Ul:86:TYR:OH	2.21	0.57
1:US:257:HIS:CE1	1:US:318:GLN:HG3	2.39	0.57
1:UV:87:LYS:NZ	2:VY:53:THR:O	2.36	0.57
2:Uu:137:LEU:HD11	2:Uu:159:ALA:HB2	1.86	0.57
2:VU:137:LEU:HD11	2:VU:159:ALA:HB2	1.87	0.57
2:VZ:180:ASN:O	2:Va:180:ASN:ND2	2.33	0.57
2:Vh:167:THR:HG22	2:Vh:168:GLU:H	1.70	0.57
5:Yn:94:LEU:HD23	5:Yn:124:LYS:HD2	1.87	0.57
5:Zs:112:ASP:OD1	5:Zs:115:GLN:NE2	2.37	0.57
5:Zy:112:ASP:OD1	5:Zy:115:GLN:NE2	2.37	0.57
5:aL:94:LEU:HD23	5:aL:124:LYS:HD2	1.86	0.57
5:ay:103:LEU:HD12	5:ay:113:ILE:HG23	1.86	0.57
5:bA:103:LEU:HD12	5:bA:113:ILE:HG23	1.85	0.57
5:bH:94:LEU:HD23	5:bH:124:LYS:HD2	1.86	0.57
5:br:94:LEU:HD23	5:br:124:LYS:HD2	1.86	0.57
5:cF:94:LEU:HD23	5:cF:124:LYS:HD2	1.86	0.57
5:cR:94:LEU:HD23	5:cR:124:LYS:HD2	1.86	0.57
5:ck:112:ASP:OD1	5:ck:115:GLN:NE2	2.37	0.57
5:cx:94:LEU:HD23	5:cx:124:LYS:HD2	1.86	0.57
5:dC:103:LEU:HD12	5:dC:113:ILE:HG23	1.85	0.57
5:do:103:LEU:HD12	5:do:113:ILE:HG23	1.85	0.57
5:ds:103:LEU:HD12	5:ds:113:ILE:HG23	1.85	0.57
5:eI:103:LEU:HD12	5:eI:113:ILE:HG23	1.85	0.57
5:eP:131:ILE:HD13	5:eP:140:ILE:HD11	1.87	0.57
5:eZ:94:LEU:HD23	5:eZ:124:LYS:HD2	1.86	0.57
5:er:131:ILE:HD13	5:er:140:ILE:HD11	1.87	0.57
5:fg:112:ASP:OD1	5:fg:115:GLN:NE2	2.37	0.57
5:fx:94:LEU:HD23	5:fx:124:LYS:HD2	1.86	0.57
1:AM:20:VAL:O	5:DW:213:ARG:NH2	2.33	0.57
1:Af:107:ASP:OD2	1:Af:110:ASN:ND2	2.34	0.57
2:Bu:23:LYS:N	2:Bu:67:TYR:OH	2.37	0.57
4:Cy:44:GLU:CD	4:Cy:45:PHE:H	2.13	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fj:8:TYR:CD2	1:Fj:93:GLN:HG3	2.40	0.57
1:Fq:165:ILE:HD13	1:Fq:191:LEU:HD23	1.87	0.57
1:GC:80:ASN:ND2	1:GC:153:PRO:O	2.37	0.57
2:Gb:137:LEU:HD11	2:Gb:159:ALA:HB2	1.86	0.57
1:KB:55:ALA:O	1:LH:86:TYR:OH	2.21	0.57
1:KB:161:MET:SD	2:La:31:LEU:HD21	2.44	0.57
2:Lm:158:ILE:HG13	2:Lm:178:PHE:HE2	1.70	0.57
3:MN:102:THR:HG22	4:MY:56:PHE:HD1	1.69	0.57
1:Oq:161:MET:SD	2:QP:31:LEU:HD21	2.44	0.57
1:Ot:65:ASN:HB2	2:QL:59:ILE:H	1.68	0.57
1:Ox:165:ILE:HD13	1:Ox:191:LEU:HD23	1.87	0.57
2:QF:69:TYR:HB2	2:QF:101:ILE:HD12	1.85	0.57
2:Qe:137:LEU:HD11	2:Qe:159:ALA:HB2	1.87	0.57
2:Qx:165:LYS:HE3	2:Qx:168:GLU:HA	1.87	0.57
2:Qz:165:LYS:HE3	2:Qz:168:GLU:HA	1.87	0.57
1:Tu:1:MET:HE1	1:Tz:3:LEU:HA	1.86	0.57
1:Ty:152:LEU:HD21	2:VQ:105:SER:HA	1.86	0.57
2:Vl:77:PHE:HD2	4:WP:138:LYS:HE2	1.69	0.57
2:Vo:165:LYS:HE3	2:Vo:168:GLU:HA	1.87	0.57
6:Xx:142:LYS:HA	6:Xx:145:LEU:HD12	1.87	0.57
6:Xy:273:THR:HG22	6:Xy:275:SER:H	1.69	0.57
5:YK:68:GLU:OE2	5:YK:71:ARG:NH2	2.37	0.57
5:Yj:110:LEU:O	5:Yj:114:MET:HG2	2.04	0.57
5:aE:103:LEU:HD12	5:aE:113:ILE:HG23	1.84	0.57
5:aF:94:LEU:HD23	5:aF:124:LYS:HD2	1.87	0.57
5:aO:103:LEU:HD12	5:aO:113:ILE:HG23	1.86	0.57
5:aS:103:LEU:HD12	5:aS:113:ILE:HG23	1.86	0.57
5:aX:94:LEU:HD23	5:aX:124:LYS:HD2	1.86	0.57
5:ah:94:LEU:HD23	5:ah:124:LYS:HD2	1.87	0.57
5:bE:62:GLU:OE1	5:bk:97:HIS:NE2	2.37	0.57
5:bG:62:GLU:OE1	5:bm:97:HIS:NE2	2.37	0.57
5:ba:112:ASP:OD1	5:ba:115:GLN:NE2	2.38	0.57
5:bu:112:ASP:OD1	5:bu:115:GLN:NE2	2.37	0.57
5:cg:112:ASP:OD1	5:cg:115:GLN:NE2	2.37	0.57
5:cv:94:LEU:HD23	5:cv:124:LYS:HD2	1.86	0.57
5:dV:94:LEU:HD23	5:dV:124:LYS:HD2	1.86	0.57
5:dY:112:ASP:OD1	5:dY:115:GLN:NE2	2.38	0.57
5:dg:103:LEU:HD12	5:dg:113:ILE:HG23	1.84	0.57
5:dt:131:ILE:HD13	5:dt:140:ILE:HD11	1.87	0.57
5:dw:147:ILE:HD11	5:ee:55:ILE:HG12	1.86	0.57
5:dz:94:LEU:HD23	5:dz:124:LYS:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eC:56:ASN:HB2	5:ek:146:GLU:H	1.69	0.57
5:eN:131:ILE:HD13	5:eN:140:ILE:HD11	1.87	0.57
5:ef:94:LEU:HD23	5:ef:124:LYS:HD2	1.86	0.57
5:ep:131:ILE:HD13	5:ep:140:ILE:HD11	1.87	0.57
5:fC:103:LEU:HD12	5:fC:113:ILE:HG23	1.85	0.57
5:fG:103:LEU:HD12	5:fG:113:ILE:HG23	1.85	0.57
5:fM:103:LEU:HD12	5:fM:113:ILE:HG23	1.85	0.57
5:fV:94:LEU:HD23	5:fV:124:LYS:HD2	1.86	0.57
5:fe:112:ASP:OD1	5:fe:115:GLN:NE2	2.37	0.57
1:Au:8:TYR:CD2	1:Au:93:GLN:HG3	2.40	0.57
4:DH:107:ASP:HB3	4:DH:116:THR:HB	1.85	0.57
1:GA:79:LEU:HD11	1:GA:305:LEU:HB2	1.87	0.57
1:GP:79:LEU:HD11	1:GP:305:LEU:HB2	1.87	0.57
1:GQ:152:LEU:HD21	4:Hy:112:SER:HA	1.86	0.57
1:GR:59:THR:O	2:Gn:61:ASN:ND2	2.38	0.57
2:HO:75:LEU:HD22	2:HO:84:LEU:HD13	1.86	0.57
1:Jw:55:ALA:O	1:KD:86:TYR:OH	2.18	0.57
1:Kp:79:LEU:HD11	1:Kp:305:LEU:HB2	1.87	0.57
1:Kr:80:ASN:ND2	1:Kr:153:PRO:O	2.37	0.57
2:Lq:137:LEU:HD11	2:Lq:159:ALA:HB2	1.87	0.57
2:Lz:75:LEU:HD22	2:Lz:84:LEU:HD13	1.86	0.57
4:MS:23:LYS:N	4:MS:67:TYR:OH	2.38	0.57
1:Os:25:MET:HE1	1:Os:130:ILE:HG22	1.87	0.57
1:PN:8:TYR:CD2	1:PN:93:GLN:HG3	2.40	0.57
1:PT:65:ASN:HB2	2:Qd:59:ILE:H	1.69	0.57
1:PU:165:ILE:HD13	1:PU:191:LEU:HD23	1.87	0.57
1:Pb:26:TYR:O	5:Sl:218:TYR:OH	2.20	0.57
2:Qb:158:ILE:HG13	2:Qb:178:PHE:HE2	1.70	0.57
2:Qs:75:LEU:HD22	2:Qs:84:LEU:HD13	1.86	0.57
1:TS:55:ALA:O	1:TW:86:TYR:OH	2.17	0.57
1:Ta:143:LYS:HA	4:Vx:39:ARG:HE	1.69	0.57
1:Tf:161:MET:SD	2:VE:31:LEU:HD21	2.44	0.57
1:UJ:165:ILE:HD13	1:UJ:191:LEU:HD23	1.87	0.57
1:UV:194:GLY:HA3	4:WJ:36:ASN:OD1	2.03	0.57
1:UZ:55:ALA:O	1:Uc:86:TYR:OH	2.19	0.57
2:VU:181:ARG:NH1	2:VU:182:ALA:O	2.37	0.57
4:Vw:23:LYS:N	4:Vw:67:TYR:OH	2.38	0.57
5:YN:79:GLU:OE1	5:YN:82:ARG:NH2	2.37	0.57
5:YR:77:LEU:O	5:YR:81:GLU:HG2	2.04	0.57
5:YW:127:PRO:O	5:YW:131:ILE:HG13	2.03	0.57
5:Yp:94:LEU:HD23	5:Yp:124:LYS:HD2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZP:94:LEU:HD23	5:ZP:124:LYS:HD2	1.87	0.57
5:Zl:94:LEU:HD23	5:Zl:124:LYS:HD2	1.85	0.57
5:Zw:103:LEU:HD12	5:Zw:113:ILE:HG23	1.85	0.57
5:aO:112:ASP:OD1	5:aO:115:GLN:NE2	2.38	0.57
5:aQ:103:LEU:HD12	5:aQ:113:ILE:HG23	1.86	0.57
5:aQ:112:ASP:OD1	5:aQ:115:GLN:NE2	2.38	0.57
5:af:94:LEU:HD23	5:af:124:LYS:HD2	1.87	0.57
5:cN:94:LEU:HD23	5:cN:124:LYS:HD2	1.86	0.57
5:ci:112:ASP:OD1	5:ci:115:GLN:NE2	2.37	0.57
5:dW:112:ASP:OD1	5:dW:115:GLN:NE2	2.38	0.57
5:dg:56:ASN:HB3	5:eO:147:ILE:HG22	1.87	0.57
5:eE:112:ASP:OD1	5:eE:115:GLN:NE2	2.37	0.57
5:eU:112:ASP:OD1	5:eU:115:GLN:NE2	2.37	0.57
5:eZ:131:ILE:HD13	5:eZ:140:ILE:HD11	1.87	0.57
5:en:131:ILE:HD13	5:en:140:ILE:HD11	1.87	0.57
5:fI:103:LEU:HD12	5:fI:113:ILE:HG23	1.85	0.57
5:fm:103:LEU:HD12	5:fm:113:ILE:HG23	1.84	0.57
1:Ak:158:LEU:HB3	1:Ak:260:LEU:HD21	1.86	0.57
1:Av:77:VAL:HG21	2:CF:32:LEU:HD23	1.86	0.57
1:BB:165:ILE:HD13	1:BB:191:LEU:HD23	1.87	0.57
1:BW:87:LYS:NZ	2:Cf:53:THR:O	2.33	0.57
2:CX:181:ARG:HH12	2:CY:94:LEU:HB3	1.68	0.57
1:Fy:174:LYS:O	1:Fy:212:LYS:NZ	2.38	0.57
1:GH:92:LYS:NZ	1:GH:94:THR:OG1	2.34	0.57
1:GT:261:ILE:HD12	1:GT:312:LEU:HD23	1.85	0.57
2:Gj:23:LYS:N	2:Gj:67:TYR:OH	2.37	0.57
4:Hd:23:LYS:N	4:Hd:67:TYR:OH	2.38	0.57
1:KY:66:THR:HG22	2:Qh:52:CYS:SG	2.45	0.57
1:KY:86:TYR:HE1	1:Ke:57:PRO:HA	1.69	0.57
1:Ki:165:ILE:HD13	1:Ki:191:LEU:HD23	1.85	0.57
1:Ko:257:HIS:CE1	1:Ko:318:GLN:HG3	2.39	0.57
1:Ks:87:LYS:NZ	2:Lt:53:THR:O	2.35	0.57
2:LS:153:LYS:HA	2:LS:181:ARG:HH21	1.69	0.57
2:LX:125:LYS:NZ	2:LX:169:ASP:OD1	2.36	0.57
1:Ob:159:LEU:HD12	1:Ob:260:LEU:HD21	1.87	0.57
1:Oe:143:LYS:HE3	4:RF:40:ASP:HB2	1.85	0.57
1:Pf:317:LYS:NZ	1:Pf:319:SER:OXT	2.38	0.57
2:Qq:181:ARG:HH12	2:Qr:94:LEU:HB3	1.68	0.57
1:UI:65:ASN:HB2	2:VS:59:ILE:H	1.69	0.57
1:UU:317:LYS:NZ	1:UU:319:SER:OXT	2.38	0.57
1:UV:80:ASN:ND2	1:UV:153:PRO:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WC:93:VAL:HG21	4:WC:117:ILE:HD11	1.86	0.57
6:YD:273:THR:HG22	6:YD:275:SER:H	1.68	0.57
5:YM:90:ALA:HB2	5:YM:121:LEU:HD11	1.87	0.57
5:Zz:94:LEU:HD23	5:Zz:124:LYS:HD2	1.86	0.57
5:aG:55:ILE:O	5:aG:59:ILE:HG12	2.05	0.57
5:ac:103:LEU:HD12	5:ac:113:ILE:HG23	1.86	0.57
5:aj:94:LEU:HD23	5:aj:124:LYS:HD2	1.86	0.57
5:as:112:ASP:OD1	5:as:115:GLN:NE2	2.37	0.57
5:bD:94:LEU:HD23	5:bD:124:LYS:HD2	1.86	0.57
5:bG:103:LEU:HD12	5:bG:113:ILE:HG23	1.85	0.57
5:dI:103:LEU:HD12	5:dI:113:ILE:HG23	1.85	0.57
5:dY:103:LEU:HD12	5:dY:113:ILE:HG23	1.86	0.57
5:de:103:LEU:HD12	5:de:113:ILE:HG23	1.85	0.57
5:dk:112:ASP:OD1	5:dk:115:GLN:NE2	2.37	0.57
5:dm:103:LEU:HD12	5:dm:113:ILE:HG23	1.84	0.57
5:dy:98:PHE:HB3	5:dy:117:GLN:HE22	1.69	0.57
5:eB:94:LEU:HD23	5:eB:124:LYS:HD2	1.87	0.57
5:eF:94:LEU:HD23	5:eF:124:LYS:HD2	1.86	0.57
5:eJ:131:ILE:HD13	5:eJ:140:ILE:HD11	1.87	0.57
5:ej:94:LEU:HD23	5:ej:124:LYS:HD2	1.86	0.57
5:fq:112:ASP:OD1	5:fq:115:GLN:NE2	2.37	0.57
5:ft:94:LEU:HD23	5:ft:124:LYS:HD2	1.86	0.57
1:AZ:286:ASP:HB2	1:AZ:294:HIS:HB2	1.85	0.57
1:Ba:110:ASN:OD1	1:Bd:62:ASN:ND2	2.37	0.57
1:Be:261:ILE:HD12	1:Be:312:LEU:HD23	1.86	0.57
2:Bw:77:PHE:HB2	4:Cr:138:LYS:HE2	1.87	0.57
2:CZ:167:THR:HG22	2:CZ:168:GLU:H	1.70	0.57
1:FJ:143:LYS:HG3	2:Gi:39:ARG:HH21	1.70	0.57
1:Fj:89:ARG:HH21	1:Fj:112:LEU:HD21	1.69	0.57
1:Fk:89:ARG:HH21	1:Fk:112:LEU:HD21	1.70	0.57
1:GL:165:ILE:HD13	1:GL:191:LEU:HD23	1.86	0.57
2:Gi:180:ASN:ND2	4:He:186:ASN:O	2.38	0.57
2:Gr:69:TYR:HB2	2:Gr:101:ILE:HD12	1.86	0.57
2:HB:75:LEU:HD22	2:HB:84:LEU:HD21	1.86	0.57
2:HM:181:ARG:HH12	2:HN:94:LEU:HB3	1.68	0.57
4:Hj:93:VAL:HG21	4:Hj:117:ILE:HD11	1.86	0.57
4:Ht:69:TYR:HB2	4:Ht:108:ILE:HD12	1.85	0.57
1:Jy:143:LYS:HG3	2:LX:39:ARG:HH21	1.70	0.57
1:KS:54:ASN:HB3	2:Lp:51:VAL:HG12	1.86	0.57
1:KY:89:ARG:HH21	1:KY:112:LEU:HD21	1.69	0.57
1:Kn:174:LYS:O	1:Kn:212:LYS:NZ	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kx:66:THR:HG22	2:MK:52:CYS:HB3	1.87	0.57
1:LB:87:LYS:NZ	2:MK:53:THR:O	2.35	0.57
2:La:181:ARG:HH12	2:Lb:94:LEU:HB3	1.69	0.57
2:Lh:137:LEU:HD11	2:Lh:159:ALA:HB2	1.87	0.57
2:MK:165:LYS:HE3	2:MK:168:GLU:HA	1.87	0.57
4:Mh:141:LEU:HD11	4:Mh:165:ALA:HB2	1.86	0.57
1:Oo:77:VAL:HG21	2:QG:32:LEU:HD23	1.86	0.57
1:PN:66:THR:HG22	2:VW:52:CYS:SG	2.45	0.57
1:PR:85:GLN:HE22	1:Ph:289:SER:HB2	1.70	0.57
1:Pv:59:THR:O	2:QR:61:ASN:ND2	2.38	0.57
1:Tf:20:VAL:O	5:Wp:213:ARG:NH2	2.38	0.57
1:Ui:286:ASP:HB2	1:Ui:294:HIS:HB2	1.85	0.57
2:Vf:181:ARG:HH12	2:Vg:94:LEU:HB3	1.68	0.57
5:YL:90:ALA:HB2	5:YL:121:LEU:HD11	1.87	0.57
5:YQ:63:LEU:HD12	5:Yg:147:ILE:H	1.69	0.57
5:ZC:56:ASN:ND2	5:Ze:141:SER:HB3	2.19	0.57
5:ZG:59:ILE:HG13	5:Za:98:PHE:HE2	1.69	0.57
5:ZJ:94:LEU:HD21	5:ZJ:121:LEU:HD23	1.87	0.57
5:Zc:110:LEU:O	5:Zc:114:MET:HG2	2.04	0.57
5:Zi:112:ASP:OD1	5:Zi:115:GLN:NE2	2.38	0.57
5:Zx:94:LEU:HD23	5:Zx:124:LYS:HD2	1.86	0.57
5:aW:103:LEU:HD12	5:aW:113:ILE:HG23	1.86	0.57
5:ab:94:LEU:HD23	5:ab:124:LYS:HD2	1.86	0.57
5:aq:112:ASP:OD1	5:aq:115:GLN:NE2	2.37	0.57
5:av:94:LEU:HD23	5:av:124:LYS:HD2	1.86	0.57
5:bG:112:ASP:OD1	5:bG:115:GLN:NE2	2.37	0.57
5:bw:112:ASP:OD1	5:bw:115:GLN:NE2	2.37	0.57
5:dD:94:LEU:HD23	5:dD:124:LYS:HD2	1.86	0.57
5:dG:103:LEU:HD12	5:dG:113:ILE:HG23	1.85	0.57
5:dN:94:LEU:HD23	5:dN:124:LYS:HD2	1.86	0.57
5:di:103:LEU:HD12	5:di:113:ILE:HG23	1.84	0.57
5:dt:94:LEU:HD23	5:dt:124:LYS:HD2	1.86	0.57
5:eH:131:ILE:HD13	5:eH:140:ILE:HD11	1.86	0.57
5:eI:86:ILE:HD11	5:eI:118:ARG:HE	1.70	0.57
5:eK:147:ILE:HG13	5:eM:55:ILE:HG23	1.87	0.57
5:eb:94:LEU:HD23	5:eb:124:LYS:HD2	1.86	0.57
5:ej:131:ILE:HD13	5:ej:140:ILE:HD11	1.87	0.57
5:fn:94:LEU:HD23	5:fn:124:LYS:HD2	1.86	0.57
5:fq:103:LEU:HD12	5:fq:113:ILE:HG23	1.85	0.57
1:Ab:286:ASP:HB2	1:Ab:294:HIS:HB2	1.86	0.57
1:Aq:152:LEU:HD21	2:CI:105:SER:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Av:89:ARG:HH21	1:Av:112:LEU:HD21	1.70	0.57
1:Ax:55:ALA:O	1:BO:86:TYR:OH	2.20	0.57
2:CL:137:LEU:HD11	2:CL:159:ALA:HB2	1.87	0.57
2:CM:137:LEU:HD11	2:CM:159:ALA:HB2	1.87	0.57
1:Fj:66:THR:HG22	2:Ls:52:CYS:SG	2.45	0.57
1:Fk:77:VAL:HG21	2:Gu:32:LEU:HD23	1.86	0.57
1:Fr:55:ALA:HB2	4:Hs:51:THR:HB	1.86	0.57
1:GB:317:LYS:NZ	1:GB:319:SER:OXT	2.38	0.57
1:Jm:159:LEU:HD12	1:Jm:260:LEU:HD21	1.87	0.57
1:KI:165:ILE:HD13	1:KI:191:LEU:HD23	1.87	0.57
1:LF:317:LYS:NZ	1:LF:319:SER:OXT	2.37	0.57
3:MN:102:THR:HG21	4:MY:56:PHE:HA	1.86	0.57
1:On:143:LYS:HG3	2:QM:39:ARG:HH21	1.70	0.57
1:Ow:178:ASP:OD1	1:Ow:179:LYS:N	2.38	0.57
1:PV:55:ALA:O	1:PY:86:TYR:OH	2.23	0.57
1:Pd:257:HIS:CE1	1:Pd:318:GLN:HG3	2.39	0.57
1:Pj:55:ALA:O	1:UK:86:TYR:OH	2.19	0.57
1:Pv:52:PHE:HB3	4:RL:41:LYS:HE2	1.87	0.57
4:RW:141:LEU:HD11	4:RW:165:ALA:HB2	1.87	0.57
1:Tk:55:ALA:O	1:Tm:86:TYR:OH	2.21	0.57
1:Tr:86:TYR:OH	1:Tu:55:ALA:O	2.22	0.57
1:US:308:ARG:HH21	2:VY:31:LEU:HB2	1.70	0.57
3:Vr:141:MET:HE2	3:Vr:160:ILE:HD12	1.87	0.57
5:YN:70:GLU:O	5:YN:74:LYS:HG2	2.05	0.57
5:Yd:154:LEU:HD11	5:Ye:130:GLN:HG3	1.86	0.57
5:Ym:103:LEU:HD12	5:Ym:113:ILE:HG23	1.86	0.57
5:ZZ:94:LEU:HD23	5:ZZ:124:LYS:HD2	1.86	0.57
5:aS:112:ASP:OD1	5:aS:115:GLN:NE2	2.38	0.57
5:ag:112:ASP:OD1	5:ag:115:GLN:NE2	2.37	0.57
5:an:94:LEU:HD23	5:an:124:LYS:HD2	1.87	0.57
5:ao:112:ASP:OD1	5:ao:115:GLN:NE2	2.37	0.57
5:ay:112:ASP:OD1	5:ay:115:GLN:NE2	2.37	0.57
5:bs:112:ASP:OD1	5:bs:115:GLN:NE2	2.37	0.57
5:cJ:94:LEU:HD23	5:cJ:124:LYS:HD2	1.86	0.57
5:dC:98:PHE:HB3	5:dC:117:GLN:HE22	1.70	0.57
5:dC:112:ASP:OD1	5:dC:115:GLN:NE2	2.37	0.57
5:dS:112:ASP:OD1	5:dS:115:GLN:NE2	2.38	0.57
5:dl:131:ILE:HD13	5:dl:140:ILE:HD11	1.87	0.57
5:eY:112:ASP:OD1	5:eY:115:GLN:NE2	2.38	0.57
5:fN:94:LEU:HD23	5:fN:124:LYS:HD2	1.86	0.57
5:fc:112:ASP:OD1	5:fc:115:GLN:NE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:66:THR:OG1	4:Cs:58:LYS:NZ	2.38	0.56
1:AX:161:MET:SD	2:Bw:31:LEU:HD21	2.44	0.56
1:Ai:261:ILE:HD12	1:Ai:312:LEU:HD23	1.85	0.56
1:Au:66:THR:HG22	2:HD:52:CYS:SG	2.45	0.56
1:Au:80:ASN:ND2	1:Au:153:PRO:O	2.30	0.56
1:BJ:174:LYS:O	1:BJ:212:LYS:NZ	2.38	0.56
2:CD:137:LEU:HD11	2:CD:159:ALA:HB2	1.87	0.56
2:CW:63:PRO:HB2	2:CW:85:GLU:HG2	1.85	0.56
4:Cp:93:VAL:HG21	4:Cp:117:ILE:HD11	1.85	0.56
4:DA:69:TYR:HB2	4:DA:108:ILE:HD12	1.87	0.56
1:FT:165:ILE:HD13	1:FT:191:LEU:HD23	1.86	0.56
4:Hx:69:TYR:HB2	4:Hx:108:ILE:HD12	1.87	0.56
1:Jw:143:LYS:HA	4:MT:39:ARG:HE	1.69	0.56
1:Kf:165:ILE:HD13	1:Kf:191:LEU:HD23	1.87	0.56
1:Ks:77:VAL:HG21	2:ME:32:LEU:HD23	1.86	0.56
1:LG:52:PHE:HB3	4:MW:41:LYS:HE2	1.86	0.56
2:LY:23:LYS:N	2:LY:67:TYR:OH	2.37	0.56
1:Oe:49:TRP:CZ3	1:Oe:74:SER:HB3	2.40	0.56
1:PQ:55:ALA:O	1:Ph:86:TYR:OH	2.21	0.56
1:Pu:86:TYR:OH	1:Pw:55:ALA:O	2.18	0.56
4:RV:142:ILE:HD11	4:RV:152:VAL:HG23	1.86	0.56
1:UI:78:ARG:O	1:UI:154:ASN:ND2	2.31	0.56
1:Uk:59:THR:O	2:VG:61:ASN:ND2	2.38	0.56
2:Ve:63:PRO:HB2	2:Ve:85:GLU:HG2	1.86	0.56
5:YX:86:ILE:HD11	5:YX:118:ARG:HE	1.70	0.56
5:Yd:94:LEU:HD21	5:Yd:121:LEU:HD23	1.88	0.56
5:ZS:110:LEU:O	5:ZS:114:MET:HG2	2.04	0.56
5:Zp:94:LEU:HD23	5:Zp:124:LYS:HD2	1.86	0.56
5:aU:112:ASP:OD1	5:aU:115:GLN:NE2	2.37	0.56
5:az:94:LEU:HD23	5:az:124:LYS:HD2	1.86	0.56
5:bE:103:LEU:HD12	5:bE:113:ILE:HG23	1.85	0.56
5:bT:94:LEU:HD23	5:bT:124:LYS:HD2	1.86	0.56
5:bn:94:LEU:HD23	5:bn:124:LYS:HD2	1.86	0.56
5:bt:94:LEU:HD23	5:bt:124:LYS:HD2	1.86	0.56
5:cp:94:LEU:HD23	5:cp:124:LYS:HD2	1.86	0.56
5:cq:112:ASP:OD1	5:cq:115:GLN:NE2	2.37	0.56
5:dB:94:LEU:HD23	5:dB:124:LYS:HD2	1.86	0.56
5:dE:112:ASP:OD1	5:dE:115:GLN:NE2	2.37	0.56
5:dI:98:PHE:HB3	5:dI:117:GLN:HE22	1.69	0.56
5:eC:112:ASP:OD1	5:eC:115:GLN:NE2	2.38	0.56
5:eE:86:ILE:HD11	5:eE:118:ARG:HE	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eV:131:ILE:HD13	5:eV:140:ILE:HD11	1.87	0.56
5:eh:131:ILE:HD13	5:eh:140:ILE:HD11	1.87	0.56
5:er:94:LEU:HD23	5:er:124:LYS:HD2	1.86	0.56
5:fk:112:ASP:OD1	5:fk:115:GLN:NE2	2.37	0.56
5:fo:112:ASP:OD1	5:fo:115:GLN:NE2	2.37	0.56
1:AT:86:TYR:OH	1:Te:55:ALA:O	2.22	0.56
1:AV:308:ARG:HH21	2:Bn:31:LEU:HB2	1.69	0.56
1:BG:296:TYR:HE2	1:BH:67:ILE:HG13	1.70	0.56
1:BK:55:ALA:O	1:BN:86:TYR:OH	2.19	0.56
1:BL:79:LEU:HD11	1:BL:305:LEU:HB2	1.87	0.56
1:BZ:212:LYS:HA	1:BZ:215:LYS:HE3	1.88	0.56
4:DG:107:ASP:OD1	1:Fq:62:ASN:ND2	2.38	0.56
1:FQ:284:GLN:NE2	1:FQ:286:ASP:OD1	2.35	0.56
1:Fz:308:ARG:HH21	2:HF:31:LEU:HB2	1.70	0.56
1:GA:196:GLU:HB3	1:GA:265:ASN:HD22	1.70	0.56
4:Hp:69:TYR:HB2	4:Hp:108:ILE:HD12	1.87	0.56
1:KH:178:ASP:OD1	1:KH:179:LYS:N	2.38	0.56
1:Kc:80:ASN:ND2	1:Kc:153:PRO:O	2.26	0.56
1:Ku:77:VAL:HG21	2:Qn:32:LEU:HD23	1.87	0.56
1:LE:79:LEU:HD11	1:LE:305:LEU:HB2	1.86	0.56
1:LF:152:LEU:HD21	4:Mn:112:SER:HA	1.87	0.56
2:MD:77:PHE:HB2	4:Mj:138:LYS:HE2	1.86	0.56
4:Mf:77:ILE:HG13	4:Mf:91:PRO:HB3	1.86	0.56
4:Ml:107:ASP:HB3	4:Ml:116:THR:HB	1.85	0.56
1:PT:65:ASN:ND2	2:Qd:57:ASP:O	2.38	0.56
1:PV:59:THR:O	2:Qo:61:ASN:ND2	2.39	0.56
1:Pc:174:LYS:O	1:Pc:212:LYS:NZ	2.38	0.56
1:Pg:80:ASN:ND2	1:Pg:153:PRO:O	2.37	0.56
2:QW:137:LEU:HD11	2:QW:159:ALA:HB2	1.87	0.56
4:RH:23:LYS:N	4:RH:67:TYR:OH	2.38	0.56
1:UW:77:VAL:HG21	2:Vi:32:LEU:HD23	1.86	0.56
1:Uj:259:ILE:HB	1:Uj:314:VAL:HB	1.88	0.56
4:Vx:93:VAL:HG21	4:Vx:117:ILE:HD11	1.85	0.56
6:YI:196:SER:HB3	6:YI:198:VAL:HG22	1.86	0.56
5:ZY:111:LYS:NZ	5:Zb:74:LYS:HE3	2.20	0.56
5:Zf:94:LEU:HD23	5:Zf:124:LYS:HD2	1.86	0.56
5:Zi:55:ILE:O	5:Zi:59:ILE:HG12	2.06	0.56
5:aw:103:LEU:HD12	5:aw:113:ILE:HG23	1.87	0.56
5:bJ:94:LEU:HD23	5:bJ:124:LYS:HD2	1.86	0.56
5:bN:94:LEU:HD23	5:bN:124:LYS:HD2	1.86	0.56
5:bZ:94:LEU:HD23	5:bZ:124:LYS:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bx:94:LEU:HD23	5:bx:124:LYS:HD2	1.87	0.56
5:cm:112:ASP:OD1	5:cm:115:GLN:NE2	2.38	0.56
5:co:112:ASP:OD1	5:co:115:GLN:NE2	2.37	0.56
5:cq:103:LEU:HD12	5:cq:113:ILE:HG23	1.87	0.56
5:dG:112:ASP:OD1	5:dG:115:GLN:NE2	2.37	0.56
5:dT:94:LEU:HD23	5:dT:124:LYS:HD2	1.86	0.56
5:da:103:LEU:HD12	5:da:113:ILE:HG23	1.86	0.56
5:db:94:LEU:HD23	5:db:124:LYS:HD2	1.86	0.56
5:do:112:ASP:OD1	5:do:115:GLN:NE2	2.37	0.56
5:dw:112:ASP:OD1	5:dw:115:GLN:NE2	2.38	0.56
5:eT:131:ILE:HD13	5:eT:140:ILE:HD11	1.87	0.56
5:el:94:LEU:HD23	5:el:124:LYS:HD2	1.86	0.56
5:fL:94:LEU:HD23	5:fL:124:LYS:HD2	1.86	0.56
5:fQ:112:ASP:OD1	5:fQ:115:GLN:NE2	2.38	0.56
5:fa:112:ASP:OD1	5:fa:115:GLN:NE2	2.37	0.56
5:fh:94:LEU:HD23	5:fh:124:LYS:HD2	1.86	0.56
5:gB:94:LEU:HD23	5:gB:124:LYS:HD2	1.86	0.56
1:AI:87:LYS:NZ	2:Bl:53:THR:O	2.38	0.56
1:AU:195:ASP:H	4:Vy:36:ASN:HD22	1.53	0.56
1:Ay:85:GLN:HE22	1:BO:289:SER:HB2	1.70	0.56
1:BH:86:TYR:OH	1:BP:55:ALA:O	2.20	0.56
1:BK:308:ARG:HH21	2:CQ:31:LEU:HB2	1.70	0.56
1:BZ:81:TYR:OH	1:BZ:272:LYS:O	2.22	0.56
1:BZ:257:HIS:CE1	1:BZ:318:GLN:HG3	2.40	0.56
3:Cj:94:TYR:CE2	3:Cj:96:PHE:HB2	2.41	0.56
4:Cp:165:ALA:HA	4:Cp:181:VAL:HG12	1.88	0.56
4:DI:69:TYR:HB2	4:DI:108:ILE:HD12	1.87	0.56
1:FH:143:LYS:HA	4:He:39:ARG:HE	1.69	0.56
1:FK:77:VAL:HG21	2:Gc:32:LEU:HD23	1.86	0.56
1:FR:55:ALA:O	1:FT:86:TYR:OH	2.22	0.56
1:FY:178:ASP:OD1	1:FY:179:LYS:N	2.37	0.56
1:Fb:1:MET:HE1	1:Fg:3:LEU:HA	1.86	0.56
1:Fp:65:ASN:ND2	2:Gz:57:ASP:O	2.38	0.56
1:Fv:164:GLN:HE22	1:Fv:308:ARG:HA	1.71	0.56
1:GE:164:GLN:HE22	1:GE:308:ARG:HA	1.69	0.56
1:GF:55:ALA:O	1:Kg:86:TYR:OH	2.19	0.56
1:GP:286:ASP:HB2	1:GP:294:HIS:HB2	1.85	0.56
1:GR:194:GLY:HA3	4:Hh:36:ASN:OD1	2.04	0.56
2:Gw:137:LEU:HD11	2:Gw:159:ALA:HB2	1.86	0.56
2:HA:137:LEU:HD11	2:HA:159:ALA:HB2	1.87	0.56
2:HO:167:THR:HG22	2:HO:168:GLU:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HV:165:LYS:HE3	2:HV:168:GLU:HA	1.87	0.56
4:Hq:107:ASP:HB3	4:Hq:116:THR:HB	1.86	0.56
1:Jh:86:TYR:OH	1:Jk:55:ALA:O	2.22	0.56
1:Jz:77:VAL:HG21	2:LR:32:LEU:HD23	1.86	0.56
1:KD:165:ILE:HD13	1:KD:191:LEU:HD23	1.87	0.56
1:KJ:107:ASP:OD2	1:KJ:110:ASN:ND2	2.34	0.56
1:Kg:59:THR:O	2:Lz:61:ASN:ND2	2.39	0.56
1:Kl:80:ASN:ND2	1:Kl:153:PRO:O	2.30	0.56
1:Ko:308:ARG:HH21	2:Lu:31:LEU:HB2	1.70	0.56
1:LG:59:THR:O	2:Lc:61:ASN:ND2	2.38	0.56
2:LR:125:LYS:NZ	2:LR:168:GLU:O	2.30	0.56
4:MT:165:ALA:HA	4:MT:181:VAL:HG12	1.87	0.56
4:MU:161:ILE:HA	4:MU:186:ASN:HA	1.87	0.56
4:Mf:107:ASP:HB3	4:Mf:116:THR:HB	1.86	0.56
1:Ol:143:LYS:HA	4:RI:39:ARG:HE	1.70	0.56
1:Ol:194:GLY:HA3	2:QS:36:ILE:HG21	1.88	0.56
1:Oq:20:VAL:O	5:SA:213:ARG:NH2	2.38	0.56
1:Oq:55:ALA:O	1:Pw:86:TYR:OH	2.21	0.56
1:PC:261:ILE:HD12	1:PC:312:LEU:HD23	1.88	0.56
1:PN:143:LYS:HA	2:Qf:39:ARG:HE	1.71	0.56
1:Pe:79:LEU:HD11	1:Pe:305:LEU:HB2	1.87	0.56
1:Pj:77:VAL:HG21	2:Vc:32:LEU:HD23	1.87	0.56
1:Pk:80:ASN:ND2	1:Pk:153:PRO:O	2.39	0.56
2:Qq:57:ASP:O	1:UU:65:ASN:ND2	2.39	0.56
4:RI:93:VAL:HG21	4:RI:117:ILE:HD11	1.85	0.56
1:Ta:194:GLY:HA3	2:VH:36:ILE:HG21	1.88	0.56
1:Tc:26:TYR:O	5:Wm:218:TYR:OH	2.23	0.56
1:Tc:87:LYS:NZ	2:VB:53:THR:O	2.30	0.56
1:Th:165:ILE:HD13	1:Th:191:LEU:HD23	1.87	0.56
1:Ts:158:LEU:HB3	1:Ts:260:LEU:HD21	1.86	0.56
1:UC:8:TYR:CD2	1:UC:93:GLN:HG3	2.40	0.56
1:UG:80:ASN:ND2	1:UG:153:PRO:O	2.26	0.56
1:UT:196:GLU:HB3	1:UT:265:ASN:HD22	1.70	0.56
1:UZ:80:ASN:ND2	1:UZ:153:PRO:O	2.39	0.56
1:Uh:257:HIS:CE1	1:Uh:318:GLN:HG3	2.41	0.56
1:Ui:77:VAL:HG21	2:Vj:32:LEU:HD23	1.87	0.56
2:Vm:165:LYS:HE3	2:Vm:168:GLU:HA	1.87	0.56
5:YW:157:VAL:HG21	5:YX:133:ALA:HB2	1.87	0.56
5:YZ:112:ASP:OD1	5:YZ:115:GLN:NE2	2.39	0.56
5:Yg:58:ARG:NH2	5:Yy:106:LYS:NZ	2.52	0.56
5:Yh:112:ASP:OD1	5:Yh:115:GLN:NE2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yk:86:ILE:HD11	5:Yk:118:ARG:HE	1.70	0.56
5:Ys:103:LEU:HD12	5:Ys:113:ILE:HG23	1.87	0.56
5:Yv:125:PHE:HB3	5:Yv:158:ASN:HB3	1.87	0.56
5:ZL:80:ALA:HB1	5:ZM:80:ALA:HA	1.87	0.56
5:Zg:55:ILE:O	5:Zg:59:ILE:HG12	2.05	0.56
5:Zr:94:LEU:HD23	5:Zr:124:LYS:HD2	1.86	0.56
5:aA:103:LEU:HD12	5:aA:113:ILE:HG23	1.85	0.56
5:aD:94:LEU:HD23	5:aD:124:LYS:HD2	1.87	0.56
5:aJ:94:LEU:HD23	5:aJ:124:LYS:HD2	1.87	0.56
5:aK:103:LEU:HD12	5:aK:113:ILE:HG23	1.86	0.56
5:aP:94:LEU:HD23	5:aP:124:LYS:HD2	1.87	0.56
5:bC:62:GLU:OE1	5:bi:97:HIS:NE2	2.37	0.56
5:bl:94:LEU:HD23	5:bl:124:LYS:HD2	1.87	0.56
5:bq:103:LEU:HD12	5:bq:113:ILE:HG23	1.86	0.56
5:ca:112:ASP:OD1	5:ca:115:GLN:NE2	2.37	0.56
5:cc:112:ASP:OD1	5:cc:115:GLN:NE2	2.36	0.56
5:cd:94:LEU:HD23	5:cd:124:LYS:HD2	1.86	0.56
5:cj:94:LEU:HD23	5:cj:124:LYS:HD2	1.86	0.56
5:ct:94:LEU:HD23	5:ct:124:LYS:HD2	1.86	0.56
5:cz:94:LEU:HD23	5:cz:124:LYS:HD2	1.86	0.56
5:de:112:ASP:OD1	5:de:115:GLN:NE2	2.37	0.56
5:dg:86:ILE:HD11	5:dg:118:ARG:HE	1.69	0.56
5:dm:56:ASN:HB2	5:eU:146:GLU:H	1.69	0.56
5:dm:112:ASP:OD1	5:dm:115:GLN:NE2	2.38	0.56
5:eG:112:ASP:OD1	5:eG:115:GLN:NE2	2.37	0.56
5:eQ:98:PHE:HB3	5:eQ:117:GLN:HE22	1.70	0.56
5:eR:131:ILE:HD13	5:eR:140:ILE:HD11	1.88	0.56
5:eX:94:LEU:HD23	5:eX:124:LYS:HD2	1.86	0.56
5:ed:94:LEU:HD23	5:ed:124:LYS:HD2	1.86	0.56
5:ef:131:ILE:HD13	5:ef:140:ILE:HD11	1.87	0.56
5:el:131:ILE:HD13	5:el:140:ILE:HD11	1.87	0.56
5:fA:103:LEU:HD12	5:fA:113:ILE:HG23	1.85	0.56
5:fK:103:LEU:HD12	5:fK:113:ILE:HG23	1.85	0.56
5:fR:94:LEU:HD23	5:fR:124:LYS:HD2	1.86	0.56
5:fY:112:ASP:OD1	5:fY:115:GLN:NE2	2.37	0.56
5:fm:112:ASP:OD1	5:fm:115:GLN:NE2	2.38	0.56
1:AS:143:LYS:HA	4:Cp:39:ARG:HE	1.69	0.56
1:Bd:59:THR:O	4:DJ:61:ASN:ND2	2.38	0.56
2:CH:137:LEU:HD11	2:CH:159:ALA:HB2	1.86	0.56
2:CZ:75:LEU:HD22	2:CZ:84:LEU:HD13	1.86	0.56
2:Cf:123:LEU:HD21	2:Cf:131:VAL:HG21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Cu:93:VAL:HG21	4:Cu:117:ILE:HD11	1.86	0.56
4:DG:69:TYR:HB2	4:DG:108:ILE:HD12	1.87	0.56
1:Ex:159:LEU:HD12	1:Ex:260:LEU:HD21	1.87	0.56
1:Fv:296:TYR:HE2	1:Fw:67:ILE:HG13	1.70	0.56
1:GI:66:THR:HG22	2:HV:52:CYS:HB3	1.87	0.56
2:HD:180:ASN:O	4:Ho:186:ASN:ND2	2.36	0.56
2:HK:75:LEU:HD22	2:HK:84:LEU:HD13	1.86	0.56
4:Hf:161:ILE:HA	4:Hf:186:ASN:HA	1.87	0.56
4:Hm:93:VAL:HG21	4:Hm:117:ILE:HD11	1.88	0.56
1:KA:55:ALA:O	1:Om:86:TYR:OH	2.22	0.56
1:KM:261:ILE:HD12	1:KM:312:LEU:HD23	1.85	0.56
1:Kq:317:LYS:NZ	1:Kq:319:SER:OXT	2.38	0.56
1:LC:261:ILE:HD12	1:LC:312:LEU:HD23	1.86	0.56
4:Mm:69:TYR:HB2	4:Mm:108:ILE:HD12	1.87	0.56
1:Pd:87:LYS:NZ	2:Qs:53:THR:O	2.28	0.56
2:Pz:165:LYS:HE3	2:Pz:168:GLU:HA	1.88	0.56
2:QI:180:ASN:O	4:RG:186:ASN:ND2	2.28	0.56
2:Qf:181:ARG:NH1	2:Qf:182:ALA:O	2.38	0.56
3:RC:141:MET:HE2	3:RC:160:ILE:HD12	1.87	0.56
4:WO:69:TYR:HB2	4:WO:108:ILE:HD12	1.87	0.56
6:YG:100:LEU:HD12	6:YG:101:PRO:HD2	1.88	0.56
6:YG:142:LYS:HA	6:YG:145:LEU:HD12	1.88	0.56
5:YO:90:ALA:HB2	5:YO:121:LEU:HD11	1.88	0.56
5:Ym:157:VAL:HG11	5:Yn:130:GLN:HG3	1.86	0.56
5:Yz:94:LEU:HD21	5:Yz:121:LEU:HD23	1.87	0.56
5:Zu:112:ASP:OD1	5:Zu:115:GLN:NE2	2.37	0.56
5:Zw:112:ASP:OD1	5:Zw:115:GLN:NE2	2.37	0.56
5:aI:98:PHE:HB3	5:aI:117:GLN:HE22	1.70	0.56
5:aI:112:ASP:OD1	5:aI:115:GLN:NE2	2.37	0.56
5:aM:55:ILE:O	5:aM:59:ILE:HG12	2.05	0.56
5:aZ:94:LEU:HD23	5:aZ:124:LYS:HD2	1.86	0.56
5:aa:103:LEU:HD12	5:aa:113:ILE:HG23	1.85	0.56
5:au:112:ASP:OD1	5:au:115:GLN:NE2	2.38	0.56
5:bB:94:LEU:HD23	5:bB:124:LYS:HD2	1.87	0.56
5:by:112:ASP:OD1	5:by:115:GLN:NE2	2.37	0.56
5:dH:94:LEU:HD23	5:dH:124:LYS:HD2	1.87	0.56
5:dS:103:LEU:HD12	5:dS:113:ILE:HG23	1.87	0.56
5:eM:112:ASP:OD1	5:eM:115:GLN:NE2	2.38	0.56
5:eX:131:ILE:HD13	5:eX:140:ILE:HD11	1.87	0.56
5:fi:112:ASP:OD1	5:fi:115:GLN:NE2	2.37	0.56
1:Aj:261:ILE:HD12	1:Aj:312:LEU:HD23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Am:1:MET:HE1	1:Ar:3:LEU:HA	1.86	0.56
1:BR:80:ASN:ND2	1:BR:153:PRO:O	2.39	0.56
1:Ba:77:VAL:HG21	2:Cb:32:LEU:HD23	1.87	0.56
1:Bc:59:THR:O	2:By:61:ASN:ND2	2.38	0.56
2:CO:52:CYS:SG	1:UC:66:THR:HG22	2.45	0.56
2:CV:75:LEU:HD22	2:CV:84:LEU:HD13	1.86	0.56
1:Ez:55:ALA:O	1:FD:86:TYR:OH	2.17	0.56
1:FA:55:ALA:O	1:FL:86:TYR:OH	2.21	0.56
1:Fl:165:ILE:HD13	1:Fl:191:LEU:HD23	1.87	0.56
3:HY:141:MET:HE2	3:HY:160:ILE:HD12	1.87	0.56
1:Jq:20:VAL:O	5:NA:213:ARG:NH2	2.33	0.56
1:Jw:140:SER:HB2	1:Jw:148:GLN:HG2	1.88	0.56
1:KC:87:LYS:NZ	4:MV:53:THR:O	2.34	0.56
1:KH:286:ASP:HB2	1:KH:294:HIS:HB2	1.88	0.56
1:KU:152:LEU:HD21	2:Lm:105:SER:HA	1.86	0.56
1:KY:8:TYR:CD2	1:KY:93:GLN:HG3	2.40	0.56
1:KZ:77:VAL:HG21	2:Lj:32:LEU:HD23	1.86	0.56
1:Kg:143:LYS:HA	2:Ly:39:ARG:HE	1.71	0.56
1:Kq:86:TYR:OH	1:Ks:55:ALA:O	2.16	0.56
1:Kv:80:ASN:ND2	1:Kv:153:PRO:O	2.39	0.56
1:Ky:89:ARG:HH21	1:Ky:112:LEU:HD21	1.71	0.56
4:Me:69:TYR:HB2	4:Me:108:ILE:HD12	1.87	0.56
1:On:8:TYR:CD2	1:On:93:GLN:HG3	2.41	0.56
1:PT:261:ILE:HD12	1:PT:312:LEU:HD23	1.86	0.56
2:QV:69:TYR:HB2	2:QV:101:ILE:HD12	1.86	0.56
1:Tg:162:PRO:HG2	2:VC:31:LEU:HD11	1.88	0.56
1:Th:286:ASP:HB2	1:Th:294:HIS:HB2	1.85	0.56
1:Tj:286:ASP:HB2	1:Tj:294:HIS:HB2	1.86	0.56
1:Tr:261:ILE:HD12	1:Tr:312:LEU:HD23	1.88	0.56
1:UI:261:ILE:HD12	1:UI:312:LEU:HD23	1.86	0.56
1:UL:107:ASP:OD2	1:UL:110:ASN:ND2	2.37	0.56
1:UY:165:ILE:HD13	1:UY:191:LEU:HD23	1.88	0.56
1:Ue:87:LYS:NZ	2:Vn:53:THR:O	2.33	0.56
1:Ue:165:ILE:HD13	1:Ue:191:LEU:HD23	1.86	0.56
2:VQ:158:ILE:HG13	2:VQ:178:PHE:HE2	1.70	0.56
3:Vr:94:TYR:CE2	3:Vr:96:PHE:HB2	2.41	0.56
4:Vy:161:ILE:HA	4:Vy:186:ASN:HA	1.87	0.56
4:WA:107:ASP:HB3	4:WA:116:THR:HB	1.87	0.56
6:YE:100:LEU:HD12	6:YE:101:PRO:HD2	1.88	0.56
5:YQ:57:GLU:HB3	5:Yf:147:ILE:HG13	1.85	0.56
5:Yw:86:ILE:HD11	5:Yw:118:ARG:HE	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZN:94:LEU:HD23	5:ZN:124:LYS:HD2	1.88	0.56
5:Zq:111:LYS:NZ	5:Zt:74:LYS:HE3	2.21	0.56
5:Zt:94:LEU:HD23	5:Zt:124:LYS:HD2	1.87	0.56
5:Zv:94:LEU:HD23	5:Zv:124:LYS:HD2	1.86	0.56
5:ap:94:LEU:HD23	5:ap:124:LYS:HD2	1.87	0.56
5:aw:112:ASP:OD1	5:aw:115:GLN:NE2	2.38	0.56
5:bI:112:ASP:OD1	5:bI:115:GLN:NE2	2.37	0.56
5:bj:94:LEU:HD23	5:bj:124:LYS:HD2	1.86	0.56
5:cY:112:ASP:OD1	5:cY:115:GLN:NE2	2.37	0.56
5:co:103:LEU:HD12	5:co:113:ILE:HG23	1.87	0.56
5:dn:94:LEU:HD23	5:dn:124:LYS:HD2	1.87	0.56
5:eJ:94:LEU:HD23	5:eJ:124:LYS:HD2	1.86	0.56
5:ed:131:ILE:HD13	5:ed:140:ILE:HD11	1.88	0.56
5:ei:98:PHE:HB3	5:ei:117:GLN:HE22	1.71	0.56
5:fE:103:LEU:HD12	5:fE:113:ILE:HG23	1.85	0.56
5:fH:94:LEU:HD23	5:fH:124:LYS:HD2	1.86	0.56
5:fr:94:LEU:HD23	5:fr:124:LYS:HD2	1.85	0.56
5:fv:94:LEU:HD23	5:fv:124:LYS:HD2	1.86	0.56
1:AL:49:TRP:CZ3	1:AL:74:SER:HB3	2.40	0.56
1:AU:143:LYS:HG3	2:Bt:39:ARG:HH21	1.70	0.56
1:BC:55:ALA:HB2	4:DD:51:THR:HB	1.86	0.56
1:BG:164:GLN:HE22	1:BG:308:ARG:HA	1.71	0.56
1:BG:286:ASP:HB2	1:BG:294:HIS:HB2	1.88	0.56
1:BU:89:ARG:HH21	1:BU:112:LEU:HD21	1.70	0.56
1:Bb:259:ILE:HB	1:Bb:314:VAL:HB	1.87	0.56
3:Cj:102:THR:HG22	4:Cu:56:PHE:HD1	1.70	0.56
4:DB:107:ASP:HB3	4:DB:116:THR:HB	1.86	0.56
1:FA:49:TRP:CZ3	1:FA:74:SER:HB3	2.41	0.56
1:FM:20:VAL:O	5:IW:213:ARG:NH2	2.38	0.56
1:FO:165:ILE:HD13	1:FO:191:LEU:HD23	1.87	0.56
1:Fi:174:LYS:O	1:Fi:212:LYS:NZ	2.39	0.56
1:Fn:85:GLN:HE22	1:GD:289:SER:HB2	1.70	0.56
1:Fs:174:LYS:O	1:Fs:212:LYS:NZ	2.39	0.56
4:Ho:51:THR:HG21	4:Ho:180:LYS:HE3	1.88	0.56
1:Jo:55:ALA:O	1:Js:86:TYR:OH	2.17	0.56
1:Jw:194:GLY:HA3	2:Ld:36:ILE:HG21	1.88	0.56
1:KB:20:VAL:O	5:NL:213:ARG:NH2	2.38	0.56
1:KB:239:LYS:HB3	1:KB:244:ARG:HG2	1.88	0.56
1:KZ:107:ASP:OD2	1:KZ:110:ASN:ND2	2.32	0.56
1:Kk:21:LYS:NZ	1:Kl:195:ASP:OD2	2.36	0.56
1:Kk:296:TYR:HE2	1:Kl:67:ILE:HG13	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kx:261:ILE:HD12	1:Kx:312:LEU:HD23	1.88	0.56
1:LD:257:HIS:CE1	1:LD:318:GLN:HG3	2.40	0.56
2:Lf:153:LYS:HG3	2:Lf:154:SER:H	1.71	0.56
2:MB:57:ASP:O	1:Pf:65:ASN:ND2	2.39	0.56
1:Os:165:ILE:HD13	1:Os:191:LEU:HD23	1.87	0.56
1:Ot:164:GLN:HE22	1:Ot:308:ARG:HA	1.71	0.56
1:Pl:92:LYS:NZ	1:Pl:94:THR:OG1	2.34	0.56
1:Pm:66:THR:HG22	2:Qz:52:CYS:HB3	1.87	0.56
1:Pn:89:ARG:HH21	1:Pn:112:LEU:HD21	1.71	0.56
2:QH:153:LYS:HA	2:QH:181:ARG:HH21	1.69	0.56
2:Qh:180:ASN:O	4:RS:186:ASN:ND2	2.36	0.56
3:RC:102:THR:HG22	4:RN:56:PHE:HD1	1.71	0.56
1:Tr:178:ASP:OD1	1:Tr:179:LYS:N	2.37	0.56
1:UK:143:LYS:HA	2:Vc:39:ARG:HE	1.71	0.56
1:UR:174:LYS:O	1:UR:212:LYS:NZ	2.38	0.56
1:Ui:79:LEU:HD11	1:Ui:305:LEU:HB2	1.86	0.56
4:WQ:69:TYR:HB2	4:WQ:108:ILE:HD12	1.87	0.56
6:YC:192:TYR:HE2	6:YC:197:LEU:HD13	1.70	0.56
5:YN:112:ASP:OD1	5:YN:115:GLN:NE2	2.38	0.56
5:Yc:122:VAL:HG11	5:Yc:151:LEU:HD13	1.87	0.56
5:ZD:94:LEU:HD21	5:ZD:121:LEU:HD23	1.88	0.56
5:ZO:55:ILE:HD12	5:ZS:103:LEU:HD11	1.88	0.56
5:aY:103:LEU:HD12	5:aY:113:ILE:HG23	1.86	0.56
5:bM:112:ASP:OD1	5:bM:115:GLN:NE2	2.36	0.56
5:cy:112:ASP:OD1	5:cy:115:GLN:NE2	2.37	0.56
5:dA:103:LEU:HD12	5:dA:113:ILE:HG23	1.85	0.56
5:dQ:112:ASP:OD1	5:dQ:115:GLN:NE2	2.38	0.56
5:dZ:94:LEU:HD23	5:dZ:124:LYS:HD2	1.86	0.56
5:dd:94:LEU:HD23	5:dd:124:LYS:HD2	1.86	0.56
5:dg:58:ARG:NH2	5:eP:146:GLU:OE1	2.36	0.56
5:di:86:ILE:HD11	5:di:118:ARG:HE	1.69	0.56
5:dk:56:ASN:HB3	5:eS:147:ILE:HG22	1.87	0.56
5:dq:55:ILE:O	5:dq:59:ILE:HG12	2.05	0.56
5:du:147:ILE:HD11	5:ec:55:ILE:HG12	1.88	0.56
5:eH:94:LEU:HD23	5:eH:124:LYS:HD2	1.87	0.56
5:fK:98:PHE:HB3	5:fK:117:GLN:HE22	1.71	0.56
1:AX:20:VAL:O	5:Dh:213:ARG:NH2	2.38	0.56
1:Aj:178:ASP:OD1	1:Aj:179:LYS:N	2.37	0.56
1:BQ:165:ILE:HD13	1:BQ:191:LEU:HD23	1.88	0.56
2:Ce:165:LYS:HE3	2:Ce:168:GLU:HA	1.87	0.56
4:Hh:107:ASP:HB3	4:Hh:116:THR:HB	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KY:143:LYS:HA	2:Lq:39:ARG:HE	1.71	0.56
1:KZ:89:ARG:HH21	1:KZ:112:LEU:HD21	1.70	0.56
2:LK:165:LYS:HE3	2:LK:168:GLU:HA	1.88	0.56
2:Ll:137:LEU:HD11	2:Ll:159:ALA:HB2	1.86	0.56
2:Lp:137:LEU:HD11	2:Lp:159:ALA:HB2	1.87	0.56
2:MD:167:THR:HG22	2:MD:168:GLU:H	1.70	0.56
1:PO:89:ARG:HH21	1:PO:112:LEU:HD21	1.69	0.56
1:PV:143:LYS:HA	2:Qn:39:ARG:HE	1.71	0.56
1:Pb:152:LEU:HD21	4:RX:112:SER:HA	1.87	0.56
1:Pc:261:ILE:HD12	1:Pc:312:LEU:HD23	1.88	0.56
1:Pu:259:ILE:HB	1:Pu:314:VAL:HB	1.88	0.56
2:Qo:75:LEU:HD22	2:Qo:84:LEU:HD13	1.86	0.56
4:RL:107:ASP:HB3	4:RL:116:THR:HB	1.87	0.56
1:Tc:8:TYR:CD2	1:Tc:93:GLN:HG3	2.41	0.56
1:Tc:143:LYS:HG3	2:VB:39:ARG:HH21	1.70	0.56
1:Tl:178:ASP:OD1	1:Tl:179:LYS:N	2.38	0.56
1:Uf:80:ASN:ND2	1:Uf:153:PRO:O	2.39	0.56
2:Uw:153:LYS:HA	2:Uw:181:ARG:HH21	1.69	0.56
2:VP:137:LEU:HD11	2:VP:159:ALA:HB2	1.86	0.56
4:WI:69:TYR:HB2	4:WI:108:ILE:HD12	1.86	0.56
6:Xy:100:LEU:HD12	6:Xy:101:PRO:HD2	1.88	0.56
6:YB:100:LEU:HD12	6:YB:101:PRO:HD2	1.88	0.56
6:YH:142:LYS:HA	6:YH:145:LEU:HD12	1.88	0.56
5:YV:55:ILE:CG2	5:Ym:116:ALA:CB	2.81	0.56
5:ZJ:72:ILE:O	5:ZJ:76:LEU:HG	2.05	0.56
5:ZY:110:LEU:O	5:ZY:114:MET:HG2	2.05	0.56
5:aK:112:ASP:OD1	5:aK:115:GLN:NE2	2.36	0.56
5:bo:103:LEU:HD12	5:bo:113:ILE:HG23	1.86	0.56
5:cK:103:LEU:HD12	5:cK:113:ILE:HG23	1.87	0.56
5:cO:112:ASP:OD1	5:cO:115:GLN:NE2	2.38	0.56
5:cU:112:ASP:OD1	5:cU:115:GLN:NE2	2.38	0.56
5:dw:56:ASN:HB2	5:ee:146:GLU:H	1.70	0.56
5:eR:94:LEU:HD23	5:eR:124:LYS:HD2	1.87	0.56
5:eb:131:ILE:HD13	5:eb:140:ILE:HD11	1.88	0.56
5:fA:112:ASP:OD1	5:fA:115:GLN:NE2	2.38	0.56
1:AY:162:PRO:HG2	2:Bu:31:LEU:HD11	1.88	0.56
1:BA:259:ILE:HB	1:BA:314:VAL:HB	1.88	0.56
1:BG:21:LYS:NZ	1:BH:195:ASP:OD2	2.36	0.56
1:BM:65:ASN:ND2	2:Vf:57:ASP:O	2.39	0.56
1:BW:86:TYR:OH	1:Be:55:ALA:O	2.24	0.56
1:BX:80:ASN:ND2	1:BX:153:PRO:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Cj:181:LEU:HD11	3:Cj:204:ALA:HB2	1.87	0.56
1:Es:86:TYR:OH	1:Ev:55:ALA:O	2.22	0.56
1:FM:239:LYS:HB3	1:FM:244:ARG:HG2	1.88	0.56
1:FN:162:PRO:HG2	2:Gj:31:LEU:HD11	1.88	0.56
1:FX:143:LYS:HA	2:Gr:39:ARG:HE	1.71	0.56
1:Fp:78:ARG:O	1:Fp:154:ASN:ND2	2.31	0.56
1:GF:165:ILE:HD13	1:GF:191:LEU:HD23	1.88	0.56
1:GJ:135:LEU:HD21	1:GJ:255:LEU:HG	1.87	0.56
1:GO:212:LYS:HA	1:GO:215:LYS:HE3	1.88	0.56
2:HM:57:ASP:O	1:Kq:65:ASN:ND2	2.39	0.56
1:Jh:307:THR:HG22	4:MS:32:LEU:HB2	1.88	0.56
1:Kl:86:TYR:OH	1:Kt:55:ALA:O	2.20	0.56
1:Kw:92:LYS:NZ	1:Kw:94:THR:OG1	2.34	0.56
2:Lk:167:THR:HB	2:Lk:170:LEU:HB3	1.88	0.56
1:Od:55:ALA:O	1:Oh:86:TYR:OH	2.17	0.56
1:Ow:286:ASP:HB2	1:Ow:294:HIS:HB2	1.88	0.56
1:Pm:174:LYS:O	1:Pm:212:LYS:NZ	2.39	0.56
1:Pm:261:ILE:HD12	1:Pm:312:LEU:HD23	1.88	0.56
2:QM:75:LEU:HD22	2:QM:84:LEU:HD21	1.88	0.56
1:UO:164:GLN:HE22	1:UO:308:ARG:HA	1.71	0.56
1:UO:296:TYR:HE2	1:UP:67:ILE:HG13	1.70	0.56
1:Ub:66:THR:HG22	2:Vo:52:CYS:HB3	1.87	0.56
2:Uo:165:LYS:HE3	2:Uo:168:GLU:HA	1.88	0.56
2:Vn:123:LEU:HD21	2:Vn:131:VAL:HG21	1.88	0.56
5:ZT:94:LEU:HD23	5:ZT:124:LYS:HD2	1.87	0.56
5:aa:98:PHE:HB3	5:aa:117:GLN:HE22	1.71	0.56
5:ae:112:ASP:OD1	5:ae:115:GLN:NE2	2.38	0.56
5:bm:112:ASP:OD1	5:bm:115:GLN:NE2	2.38	0.56
5:cM:103:LEU:HD12	5:cM:113:ILE:HG23	1.87	0.56
5:cM:112:ASP:OD1	5:cM:115:GLN:NE2	2.39	0.56
5:cS:103:LEU:HD12	5:cS:113:ILE:HG23	1.86	0.56
5:dK:112:ASP:OD1	5:dK:115:GLN:NE2	2.38	0.56
5:dc:103:LEU:HD12	5:dc:113:ILE:HG23	1.86	0.56
5:dh:94:LEU:HD23	5:dh:124:LYS:HD2	1.86	0.56
5:di:112:ASP:OD1	5:di:115:GLN:NE2	2.38	0.56
5:dm:56:ASN:HB3	5:eU:147:ILE:HG22	1.87	0.56
5:ew:112:ASP:OD1	5:ew:115:GLN:NE2	2.38	0.56
1:AU:8:TYR:CD2	1:AU:93:GLN:HG3	2.41	0.56
1:BA:65:ASN:ND2	2:CK:57:ASP:O	2.38	0.56
1:BD:174:LYS:O	1:BD:212:LYS:NZ	2.39	0.56
2:CV:77:PHE:HB2	4:DD:138:LYS:HE2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fr:59:THR:O	2:HK:61:ASN:ND2	2.39	0.56
1:Fv:286:ASP:HB2	1:Fv:294:HIS:HB2	1.88	0.56
1:GM:80:ASN:ND2	1:GM:153:PRO:O	2.39	0.56
1:GO:165:ILE:HD13	1:GO:191:LEU:HD23	1.88	0.56
1:GP:77:VAL:HG21	2:HQ:32:LEU:HD23	1.87	0.56
2:GV:165:LYS:HE3	2:GV:168:GLU:HA	1.88	0.56
2:GW:23:LYS:N	2:GW:67:TYR:OH	2.39	0.56
1:Ke:261:ILE:HD12	1:Ke:312:LEU:HD23	1.86	0.56
2:LQ:137:LEU:HD11	2:LQ:159:ALA:HB2	1.86	0.56
2:Ls:137:LEU:HD11	2:Ls:159:ALA:HB2	1.88	0.56
3:MN:94:TYR:CE2	3:MN:96:PHE:HB2	2.41	0.56
1:Pc:161:MET:SD	2:Qk:31:LEU:HD21	2.46	0.56
1:Pt:79:LEU:HD11	1:Pt:305:LEU:HB2	1.86	0.56
2:QF:137:LEU:HD11	2:QF:159:ALA:HB2	1.86	0.56
2:Qd:140:ASN:OD1	2:Qd:144:GLU:N	2.39	0.56
1:TT:49:TRP:CZ3	1:TT:74:SER:HB3	2.40	0.56
1:Tm:165:ILE:HD13	1:Tm:191:LEU:HD23	1.87	0.56
1:UG:87:LYS:NZ	4:WI:53:THR:O	2.37	0.56
1:UI:286:ASP:HB2	1:UI:294:HIS:HB2	1.88	0.56
1:UR:261:ILE:HD12	1:UR:312:LEU:HD23	1.88	0.56
1:Uj:80:ASN:ND2	1:Uj:153:PRO:O	2.30	0.56
1:Uk:194:GLY:HA3	4:WA:36:ASN:OD1	2.05	0.56
6:Xz:142:LYS:HA	6:Xz:145:LEU:HD12	1.88	0.56
6:YD:100:LEU:HD12	6:YD:101:PRO:HD2	1.88	0.56
6:YI:100:LEU:HD12	6:YI:101:PRO:HD2	1.88	0.56
5:YT:112:ASP:OD1	5:YT:115:GLN:NE2	2.39	0.56
5:Yb:94:LEU:HD21	5:Yb:121:LEU:HD23	1.88	0.56
5:Yp:128:ILE:O	5:Yp:132:LYS:HG2	2.06	0.56
5:ac:62:GLU:OE1	5:bI:97:HIS:NE2	2.39	0.56
5:ad:94:LEU:HD23	5:ad:124:LYS:HD2	1.87	0.56
5:am:55:ILE:O	5:am:59:ILE:HG12	2.05	0.56
5:ao:55:ILE:O	5:ao:59:ILE:HG12	2.06	0.56
5:au:103:LEU:HD12	5:au:113:ILE:HG23	1.88	0.56
5:bo:112:ASP:OD1	5:bo:115:GLN:NE2	2.37	0.56
5:cP:94:LEU:HD23	5:cP:124:LYS:HD2	1.86	0.56
5:cT:94:LEU:HD23	5:cT:124:LYS:HD2	1.86	0.56
5:cX:94:LEU:HD23	5:cX:124:LYS:HD2	1.87	0.56
5:dK:98:PHE:HB3	5:dK:117:GLN:HE22	1.70	0.56
5:dW:103:LEU:HD12	5:dW:113:ILE:HG23	1.86	0.56
5:dg:55:ILE:O	5:dg:59:ILE:HG12	2.05	0.56
5:di:55:ILE:HB	5:eQ:147:ILE:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eK:112:ASP:OD1	5:eK:115:GLN:NE2	2.37	0.56
5:eu:55:ILE:O	5:eu:59:ILE:HG12	2.06	0.56
1:AS:194:GLY:HA3	2:Bz:36:ILE:HG21	1.88	0.56
1:Ax:57:PRO:HG2	1:BO:84:LEU:HD13	1.88	0.56
1:BT:66:THR:HG22	2:Cg:52:CYS:HB3	1.87	0.56
1:BT:174:LYS:O	1:BT:212:LYS:NZ	2.39	0.56
2:CU:32:LEU:HD23	1:UY:77:VAL:HG21	1.87	0.56
4:Cz:51:THR:HG21	4:Cz:180:LYS:HE3	1.88	0.56
4:DD:141:LEU:HD11	4:DD:165:ALA:HB2	1.86	0.56
1:FY:261:ILE:HD12	1:FY:312:LEU:HD23	1.88	0.56
1:Fv:21:LYS:NZ	1:Fw:195:ASP:OD2	2.36	0.56
1:GF:77:VAL:HG21	2:Ly:32:LEU:HD23	1.88	0.56
1:GF:216:PRO:HA	1:GF:229:LYS:HA	1.88	0.56
1:GO:257:HIS:CE1	1:GO:318:GLN:HG3	2.40	0.56
1:GR:26:TYR:O	5:Jb:218:TYR:OH	2.24	0.56
2:Gx:158:ILE:HG13	2:Gx:178:PHE:HE2	1.70	0.56
2:HB:137:LEU:HD11	2:HB:159:ALA:HB2	1.87	0.56
2:HM:77:PHE:HB2	4:Ht:138:LYS:HE2	1.88	0.56
2:HU:123:LEU:HD21	2:HU:131:VAL:HG21	1.88	0.56
2:HX:63:PRO:HB2	2:HX:85:GLU:HG2	1.88	0.56
4:He:165:ALA:HA	4:He:181:VAL:HG12	1.87	0.56
1:KN:261:ILE:HD12	1:KN:312:LEU:HD23	1.88	0.56
1:KX:174:LYS:O	1:KX:212:LYS:NZ	2.39	0.56
1:Ke:65:ASN:ND2	2:Lo:57:ASP:O	2.38	0.56
1:Kk:286:ASP:HB2	1:Kk:294:HIS:HB2	1.88	0.56
1:Ko:307:THR:HG22	2:Lu:32:LEU:HB2	1.88	0.56
1:LB:80:ASN:ND2	1:LB:153:PRO:O	2.39	0.56
1:LD:165:ILE:HD13	1:LD:191:LEU:HD23	1.88	0.56
2:LS:63:PRO:HB2	2:LS:85:GLU:HG2	1.88	0.56
3:MN:181:LEU:HD11	3:MN:204:ALA:HB2	1.88	0.56
1:PE:143:LYS:HE3	2:QX:40:ASP:HB2	1.88	0.56
1:Pe:196:GLU:HB3	1:Pe:265:ASN:HD22	1.70	0.56
1:Pn:135:LEU:HD21	1:Pn:255:LEU:HG	1.88	0.56
1:Pt:164:GLN:HE22	1:Pt:308:ARG:HA	1.71	0.56
2:Qk:180:ASN:O	2:Ql:180:ASN:ND2	2.33	0.56
1:TK:55:ALA:O	1:TM:86:TYR:OH	2.20	0.56
1:Tl:286:ASP:HB2	1:Tl:294:HIS:HB2	1.88	0.56
1:UB:174:LYS:O	1:UB:212:LYS:NZ	2.39	0.56
1:UI:259:ILE:HB	1:UI:314:VAL:HB	1.88	0.56
1:UR:161:MET:SD	2:VZ:31:LEU:HD21	2.46	0.56
1:Uf:87:LYS:NZ	2:Vo:53:THR:O	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Up:23:LYS:N	2:Up:67:TYR:OH	2.39	0.56
2:VO:167:THR:HB	2:VO:170:LEU:HB3	1.88	0.56
2:Vq:63:PRO:HB2	2:Vq:85:GLU:HG2	1.88	0.56
4:Vx:165:ALA:HA	4:Vx:181:VAL:HG12	1.87	0.56
5:Yw:128:ILE:HG13	5:Yw:132:LYS:HE3	1.88	0.56
5:ZH:83:ILE:HG12	5:ZH:114:MET:HG3	1.88	0.56
5:Za:111:LYS:NZ	5:Zd:74:LYS:HE3	2.21	0.56
5:Ze:55:ILE:O	5:Ze:59:ILE:HG12	2.06	0.56
5:Zk:55:ILE:O	5:Zk:59:ILE:HG12	2.06	0.56
5:Zq:95:SER:HB3	5:Zq:98:PHE:HE1	1.71	0.56
5:aE:55:ILE:O	5:aE:59:ILE:HG12	2.06	0.56
5:ba:103:LEU:HD12	5:ba:113:ILE:HG23	1.88	0.56
5:bf:94:LEU:HD23	5:bf:124:LYS:HD2	1.86	0.56
5:bq:112:ASP:OD1	5:bq:115:GLN:NE2	2.38	0.56
5:cO:103:LEU:HD12	5:cO:113:ILE:HG23	1.87	0.56
5:cm:103:LEU:HD12	5:cm:113:ILE:HG23	1.88	0.56
5:de:98:PHE:HB3	5:de:117:GLN:HE22	1.71	0.56
5:dq:112:ASP:OD1	5:dq:115:GLN:NE2	2.37	0.56
5:eW:112:ASP:OD1	5:eW:115:GLN:NE2	2.38	0.56
5:em:112:ASP:OD1	5:em:115:GLN:NE2	2.38	0.56
5:fO:112:ASP:OD1	5:fO:115:GLN:NE2	2.39	0.56
1:AN:57:PRO:HA	1:AR:86:TYR:HE1	1.72	0.55
1:Ai:143:LYS:HA	2:CC:39:ARG:HE	1.71	0.55
1:BC:59:THR:O	2:CV:61:ASN:ND2	2.39	0.55
1:BE:55:ALA:O	1:BI:86:TYR:OH	2.21	0.55
2:Bh:23:LYS:N	2:Bh:67:TYR:OH	2.39	0.55
2:CB:153:LYS:HG3	2:CB:154:SER:H	1.71	0.55
2:CI:158:ILE:HG13	2:CI:178:PHE:HE2	1.70	0.55
1:FJ:8:TYR:CD2	1:FJ:93:GLN:HG3	2.41	0.55
1:FS:178:ASP:OD1	1:FS:179:LYS:N	2.38	0.55
1:Fa:143:LYS:HE3	2:Gt:40:ASP:HB2	1.88	0.55
1:Fm:57:PRO:HG2	1:GD:84:LEU:HD13	1.88	0.55
1:Fz:307:THR:HG22	2:HF:32:LEU:HB2	1.88	0.55
1:GB:164:GLN:HE22	1:GB:308:ARG:HA	1.71	0.55
1:GI:261:ILE:HD12	1:GI:312:LEU:HD23	1.88	0.55
2:Gd:63:PRO:HB2	2:Gd:85:GLU:HG2	1.88	0.55
2:Gl:77:PHE:HB2	4:Hg:138:LYS:HE2	1.88	0.55
2:Gq:153:LYS:HG3	2:Gq:154:SER:H	1.71	0.55
1:Kc:85:GLN:HE22	1:Ks:289:SER:HB2	1.70	0.55
1:Kh:107:ASP:OD2	1:Kh:110:ASN:ND2	2.37	0.55
1:Kw:92:LYS:HZ2	1:Kw:94:THR:HG1	1.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LG:26:TYR:O	5:OQ:218:TYR:OH	2.24	0.55
1:Ol:59:THR:O	4:RL:61:ASN:ND2	2.40	0.55
1:PB:143:LYS:HA	2:QV:39:ARG:HE	1.71	0.55
1:PD:158:LEU:HB3	1:PD:260:LEU:HD21	1.87	0.55
1:Pl:92:LYS:HZ2	1:Pl:94:THR:HG1	1.53	0.55
4:RI:165:ALA:HA	4:RI:181:VAL:HG12	1.87	0.55
1:UI:65:ASN:ND2	2:VS:57:ASP:O	2.38	0.55
1:UL:174:LYS:O	1:UL:212:LYS:NZ	2.39	0.55
1:Ub:174:LYS:O	1:Ub:212:LYS:NZ	2.39	0.55
1:Uh:212:LYS:HA	1:Uh:215:LYS:HE3	1.88	0.55
4:Vt:69:TYR:HB2	4:Vt:108:ILE:HD12	1.89	0.55
6:Xz:194:ASP:O	6:YA:270:TYR:OH	2.16	0.55
5:YK:112:ASP:OD1	5:YK:115:GLN:NE2	2.38	0.55
5:YV:55:ILE:O	5:YV:59:ILE:HG12	2.06	0.55
5:YX:112:ASP:OD1	5:YX:115:GLN:NE2	2.39	0.55
5:Yc:58:ARG:CZ	5:ZG:108:TYR:HE1	2.20	0.55
5:Yk:112:ASP:OD1	5:Yk:115:GLN:NE2	2.39	0.55
5:ZE:55:ILE:HG21	5:Zc:116:ALA:O	2.06	0.55
5:aW:112:ASP:OD1	5:aW:115:GLN:NE2	2.38	0.55
5:ai:112:ASP:OD1	5:ai:115:GLN:NE2	2.38	0.55
5:bF:94:LEU:HD23	5:bF:124:LYS:HD2	1.86	0.55
5:bK:112:ASP:OD1	5:bK:115:GLN:NE2	2.38	0.55
5:bS:112:ASP:OD1	5:bS:115:GLN:NE2	2.37	0.55
5:bk:112:ASP:OD1	5:bk:115:GLN:NE2	2.37	0.55
5:cQ:112:ASP:OD1	5:cQ:115:GLN:NE2	2.38	0.55
5:cW:112:ASP:OD1	5:cW:115:GLN:NE2	2.38	0.55
5:dg:112:ASP:OD1	5:dg:115:GLN:NE2	2.38	0.55
5:dm:98:PHE:HB3	5:dm:117:GLN:HE22	1.70	0.55
5:dq:86:ILE:HD11	5:dq:118:ARG:HE	1.71	0.55
5:ea:112:ASP:OD1	5:ea:115:GLN:NE2	2.39	0.55
5:ey:112:ASP:OD1	5:ey:115:GLN:NE2	2.38	0.55
1:BN:194:GLY:HA3	4:DB:36:ASN:OD1	2.05	0.55
1:BZ:55:ALA:O	1:Bc:86:TYR:OH	2.19	0.55
2:Cd:77:PHE:HD2	4:DH:138:LYS:HE2	1.71	0.55
2:Ci:63:PRO:HB2	2:Ci:85:GLU:HG2	1.88	0.55
4:Co:23:LYS:N	4:Co:67:TYR:OH	2.38	0.55
1:Es:307:THR:HG22	4:Hd:32:LEU:HB2	1.88	0.55
1:FF:261:ILE:HD12	1:FF:312:LEU:HD23	1.89	0.55
1:FL:55:ALA:O	1:Jx:86:TYR:OH	2.22	0.55
1:Fm:55:ALA:O	1:GD:86:TYR:OH	2.21	0.55
1:Fp:259:ILE:HB	1:Fp:314:VAL:HB	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ft:55:ALA:O	1:Fx:86:TYR:OH	2.21	0.55
1:Fz:55:ALA:O	1:GC:86:TYR:OH	2.19	0.55
1:GG:80:ASN:ND2	1:GG:153:PRO:O	2.38	0.55
1:GJ:89:ARG:HH21	1:GJ:112:LEU:HD21	1.71	0.55
1:GQ:86:TYR:OH	1:GS:55:ALA:O	2.18	0.55
2:Gz:140:ASN:OD1	2:Gz:144:GLU:N	2.39	0.55
2:HD:137:LEU:HD11	2:HD:159:ALA:HB2	1.89	0.55
4:Hs:141:LEU:HD11	4:Hs:165:ALA:HB2	1.86	0.55
1:KF:284:GLN:NE2	1:KF:286:ASP:OD1	2.35	0.55
1:KG:55:ALA:O	1:KI:86:TYR:OH	2.21	0.55
1:KQ:1:MET:HE1	1:KV:3:LEU:HA	1.86	0.55
1:Ka:165:ILE:HD13	1:Ka:191:LEU:HD23	1.87	0.55
1:Kk:164:GLN:HE22	1:Kk:308:ARG:HA	1.71	0.55
2:Lc:77:PHE:HD2	4:MW:138:LYS:HE2	1.71	0.55
1:On:296:TYR:HE2	1:Ot:67:ILE:HG13	1.72	0.55
1:Or:162:PRO:HG2	2:QN:31:LEU:HD11	1.88	0.55
1:Oy:107:ASP:OD2	1:Oy:110:ASN:ND2	2.34	0.55
1:PJ:152:LEU:HD21	2:Qb:105:SER:HA	1.86	0.55
1:Pd:308:ARG:HH21	2:Qj:31:LEU:HB2	1.70	0.55
2:QA:23:LYS:N	2:QA:67:TYR:OH	2.39	0.55
2:QZ:167:THR:HB	2:QZ:170:LEU:HB3	1.88	0.55
3:RC:94:TYR:CE2	3:RC:96:PHE:HB2	2.41	0.55
4:RT:69:TYR:HB2	4:RT:108:ILE:HD12	1.86	0.55
1:UD:89:ARG:HH21	1:UD:112:LEU:HD21	1.69	0.55
1:UK:59:THR:O	2:Vd:61:ASN:ND2	2.39	0.55
1:Ui:164:GLN:HE22	1:Ui:308:ARG:HA	1.71	0.55
2:Uu:180:ASN:ND2	2:Uv:180:ASN:O	2.40	0.55
2:Vd:123:LEU:HD21	2:Vd:131:VAL:HG21	1.88	0.55
3:Vr:181:LEU:HD11	3:Vr:204:ALA:HB2	1.88	0.55
5:YQ:153:SER:O	5:YQ:157:VAL:HG23	2.07	0.55
5:Yr:84:ASN:HD21	5:Ys:84:ASN:HB2	1.72	0.55
5:ZA:98:PHE:HB3	5:ZA:117:GLN:HE22	1.70	0.55
5:ZL:94:LEU:HD21	5:ZL:121:LEU:HD23	1.88	0.55
5:ZN:94:LEU:HD21	5:ZN:121:LEU:HD23	1.87	0.55
5:aV:94:LEU:HD23	5:aV:124:LYS:HD2	1.87	0.55
5:ak:112:ASP:OD1	5:ak:115:GLN:NE2	2.37	0.55
5:cu:103:LEU:HD12	5:cu:113:ILE:HG23	1.88	0.55
5:dy:56:ASN:HB2	5:eg:146:GLU:H	1.69	0.55
5:eD:94:LEU:HD23	5:eD:124:LYS:HD2	1.87	0.55
5:eo:112:ASP:OD1	5:eo:115:GLN:NE2	2.38	0.55
1:AI:159:LEU:HD12	1:AI:260:LEU:HD21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:55:ALA:O	1:AO:86:TYR:OH	2.17	0.55
1:Ae:165:ILE:HD13	1:Ae:191:LEU:HD23	1.87	0.55
1:Az:165:ILE:HD13	1:Az:191:LEU:HD23	1.89	0.55
1:BJ:161:MET:SD	2:CR:31:LEU:HD21	2.46	0.55
2:CG:167:THR:HB	2:CG:170:LEU:HB3	1.88	0.55
4:Cl:161:ILE:HA	4:Cl:186:ASN:HA	1.89	0.55
4:Cq:161:ILE:HA	4:Cq:186:ASN:HA	1.87	0.55
1:FR:174:LYS:O	1:FR:212:LYS:NZ	2.39	0.55
1:Fh:41:MET:HG2	2:HB:104:PHE:HE2	1.72	0.55
1:GI:174:LYS:O	1:GI:212:LYS:NZ	2.39	0.55
1:GM:286:ASP:HB2	1:GM:294:HIS:HB2	1.89	0.55
2:HG:180:ASN:O	2:HH:180:ASN:ND2	2.33	0.55
2:HK:123:LEU:HD21	2:HK:131:VAL:HG21	1.88	0.55
2:HT:165:LYS:HE3	2:HT:168:GLU:HA	1.87	0.55
4:Hv:69:TYR:HB2	4:Hv:108:ILE:HD12	1.87	0.55
1:Jy:8:TYR:CD2	1:Jy:93:GLN:HG3	2.41	0.55
1:KC:162:PRO:HG2	2:LY:31:LEU:HD11	1.88	0.55
1:KG:174:LYS:O	1:KG:212:LYS:NZ	2.40	0.55
1:Kn:161:MET:SD	2:Lv:31:LEU:HD21	2.46	0.55
1:LE:164:GLN:HE22	1:LE:308:ARG:HA	1.71	0.55
2:MI:165:LYS:HE3	2:MI:168:GLU:HA	1.87	0.55
4:Mb:93:VAL:HG21	4:Mb:117:ILE:HD11	1.88	0.55
1:Ol:8:TYR:CD2	1:Ol:93:GLN:HG3	2.42	0.55
1:Ov:174:LYS:O	1:Ov:212:LYS:NZ	2.40	0.55
1:PO:317:LYS:NZ	1:PO:319:SER:OXT	2.34	0.55
1:PZ:164:GLN:HE22	1:PZ:308:ARG:HA	1.71	0.55
1:Pk:87:LYS:NZ	2:Qv:53:THR:O	2.31	0.55
2:QU:153:LYS:HG3	2:QU:154:SER:H	1.71	0.55
2:RB:63:PRO:HB2	2:RB:85:GLU:HG2	1.88	0.55
1:Ta:8:TYR:CD2	1:Ta:93:GLN:HG3	2.42	0.55
1:UA:41:MET:HG2	2:VU:104:PHE:HE2	1.72	0.55
1:Ub:257:HIS:CE1	1:Ub:318:GLN:HG3	2.42	0.55
2:VL:137:LEU:HD11	2:VL:159:ALA:HB2	1.86	0.55
5:YQ:79:GLU:OE1	5:YQ:82:ARG:NH2	2.39	0.55
5:YV:112:ASP:OD1	5:YV:115:GLN:NE2	2.40	0.55
5:Ye:128:ILE:HA	5:Ye:131:ILE:HD12	1.88	0.55
5:ZW:111:LYS:NZ	5:ZZ:74:LYS:HE3	2.21	0.55
5:aM:112:ASP:OD1	5:aM:115:GLN:NE2	2.37	0.55
5:ae:103:LEU:HD12	5:ae:113:ILE:HG23	1.87	0.55
5:am:112:ASP:OD1	5:am:115:GLN:NE2	2.37	0.55
5:eA:56:ASN:HB2	5:ei:146:GLU:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eq:112:ASP:OD1	5:eq:115:GLN:NE2	2.39	0.55
5:eu:112:ASP:OD1	5:eu:115:GLN:NE2	2.38	0.55
5:fS:98:PHE:HB3	5:fS:117:GLN:HE22	1.71	0.55
5:fu:112:ASP:OD1	5:fu:115:GLN:NE2	2.37	0.55
1:AV:77:VAL:HG21	2:Bn:32:LEU:HD23	1.86	0.55
1:At:174:LYS:O	1:At:212:LYS:NZ	2.39	0.55
1:BC:55:ALA:O	1:BF:86:TYR:OH	2.23	0.55
2:Bp:165:LYS:HE3	2:Bp:168:GLU:HA	1.89	0.55
2:Bx:76:SER:HB3	2:Bx:87:GLU:HG2	1.89	0.55
1:FH:194:GLY:HA3	2:Go:36:ILE:HG21	1.88	0.55
1:FQ:81:TYR:OH	1:FQ:272:LYS:O	2.18	0.55
1:Fl:87:LYS:NZ	2:HC:53:THR:O	2.29	0.55
1:GI:257:HIS:CE1	1:GI:318:GLN:HG3	2.42	0.55
2:Gm:76:SER:HB3	2:Gm:87:GLU:HG2	1.89	0.55
2:Gv:9:GLN:O	2:Gv:13:LYS:HG2	2.07	0.55
2:Gv:167:THR:HB	2:Gv:170:LEU:HB3	1.88	0.55
3:HY:94:TYR:CE2	3:HY:96:PHE:HB2	2.41	0.55
4:Hf:69:TYR:HB2	4:Hf:108:ILE:HD12	1.89	0.55
1:Jp:49:TRP:CZ3	1:Jp:74:SER:HB3	2.40	0.55
1:Ju:261:ILE:HD12	1:Ju:312:LEU:HD23	1.88	0.55
1:KF:81:TYR:OH	1:KF:272:LYS:O	2.18	0.55
1:Kh:174:LYS:O	1:Kh:212:LYS:NZ	2.39	0.55
1:Km:244:ARG:NH2	1:Pe:231:GLU:OE2	2.34	0.55
1:Kn:261:ILE:HD12	1:Kn:312:LEU:HD23	1.88	0.55
1:Kq:164:GLN:HE22	1:Kq:308:ARG:HA	1.71	0.55
1:Ku:216:PRO:HA	1:Ku:229:LYS:HA	1.88	0.55
1:LE:161:MET:SD	2:MF:31:LEU:HD21	2.47	0.55
1:LG:194:GLY:HA3	4:MW:36:ASN:OD1	2.07	0.55
1:LI:164:GLN:HE22	1:LI:308:ARG:HA	1.71	0.55
2:LL:23:LYS:N	2:LL:67:TYR:OH	2.39	0.55
1:Oj:261:ILE:HD12	1:Oj:312:LEU:HD23	1.89	0.55
1:Ol:140:SER:HB2	1:Ol:148:GLN:HG2	1.88	0.55
1:Or:84:LEU:HD13	1:Os:57:PRO:HB2	1.89	0.55
1:PW:174:LYS:O	1:PW:212:LYS:NZ	2.39	0.55
1:Pj:216:PRO:HA	1:Pj:229:LYS:HA	1.88	0.55
1:Pq:80:ASN:ND2	1:Pq:153:PRO:O	2.39	0.55
1:Ps:212:LYS:HA	1:Ps:215:LYS:HE3	1.88	0.55
2:Qy:123:LEU:HD21	2:Qy:131:VAL:HG21	1.88	0.55
4:RZ:69:TYR:HB2	4:RZ:108:ILE:HD12	1.87	0.55
1:TQ:159:LEU:HD12	1:TQ:260:LEU:HD21	1.87	0.55
1:Ta:140:SER:HB2	1:Ta:148:GLN:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Tk:174:LYS:O	1:Tk:212:LYS:NZ	2.39	0.55
1:UE:165:ILE:HD13	1:UE:191:LEU:HD23	1.88	0.55
1:UO:21:LYS:NZ	1:UP:195:ASP:OD2	2.36	0.55
1:Ub:307:THR:HG22	2:Vo:32:LEU:HB2	1.89	0.55
1:Ui:161:MET:SD	2:Vj:31:LEU:HD21	2.47	0.55
2:VJ:153:LYS:HG3	2:VJ:154:SER:H	1.71	0.55
2:VR:137:LEU:HD11	2:VR:159:ALA:HB2	1.89	0.55
6:YD:142:LYS:HA	6:YD:145:LEU:HD12	1.88	0.55
5:aU:103:LEU:HD12	5:aU:113:ILE:HG23	1.87	0.55
5:bs:103:LEU:HD12	5:bs:113:ILE:HG23	1.87	0.55
5:cI:103:LEU:HD12	5:cI:113:ILE:HG23	1.88	0.55
5:cQ:103:LEU:HD12	5:cQ:113:ILE:HG23	1.87	0.55
5:dA:112:ASP:OD1	5:dA:115:GLN:NE2	2.38	0.55
5:do:55:ILE:HB	5:eW:147:ILE:HD11	1.88	0.55
5:eh:94:LEU:HD23	5:eh:124:LYS:HD2	1.86	0.55
5:fU:55:ILE:O	5:fU:59:ILE:HG12	2.07	0.55
1:AU:143:LYS:HA	2:Bt:39:ARG:HE	1.71	0.55
1:Aa:87:LYS:NZ	2:By:53:THR:O	2.29	0.55
1:Aw:165:ILE:HD13	1:Aw:191:LEU:HD23	1.87	0.55
1:Az:164:GLN:HE22	1:Az:308:ARG:HA	1.72	0.55
1:BC:143:LYS:HA	2:CU:39:ARG:HE	1.71	0.55
1:BE:257:HIS:CE1	1:BE:318:GLN:HG3	2.42	0.55
1:BI:152:LEU:HD21	4:DE:112:SER:HA	1.87	0.55
2:Bg:165:LYS:HE3	2:Bg:168:GLU:HA	1.88	0.55
2:Bm:180:ASN:ND2	2:Bn:180:ASN:O	2.40	0.55
2:Bu:77:PHE:HB2	4:Cq:138:LYS:HE2	1.88	0.55
2:CG:9:GLN:O	2:CG:13:LYS:HG2	2.07	0.55
2:CZ:123:LEU:HD21	2:CZ:131:VAL:HG21	1.89	0.55
3:Cj:141:MET:HE2	3:Cj:160:ILE:HD12	1.87	0.55
4:Cs:107:ASP:HB3	4:Cs:116:THR:HB	1.87	0.55
1:Ez:244:ARG:NH1	1:FD:210:SER:OG	2.40	0.55
1:Fj:143:LYS:HA	2:HB:39:ARG:HE	1.71	0.55
1:Fk:66:THR:HG22	2:Gu:52:CYS:HB3	1.89	0.55
1:Fy:161:MET:SD	2:HG:31:LEU:HD21	2.46	0.55
1:GC:26:TYR:O	5:JM:218:TYR:OH	2.25	0.55
1:GM:87:LYS:NZ	2:HV:53:THR:O	2.35	0.55
1:GP:164:GLN:HE22	1:GP:308:ARG:HA	1.71	0.55
2:Gs:137:LEU:HD11	2:Gs:159:ALA:HB2	1.87	0.55
1:Jw:8:TYR:CD2	1:Jw:93:GLN:HG3	2.42	0.55
1:KM:143:LYS:HA	2:Lg:39:ARG:HE	1.71	0.55
1:Kl:87:LYS:NZ	2:MB:53:THR:O	2.33	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LC:77:VAL:HG21	2:Lc:32:LEU:HD23	1.89	0.55
1:LE:77:VAL:HG21	2:MF:32:LEU:HD23	1.87	0.55
1:LE:110:ASN:OD1	1:LH:62:ASN:ND2	2.37	0.55
4:MU:36:ASN:HD22	1:On:195:ASP:H	1.52	0.55
1:PF:1:MET:HE1	1:PK:3:LEU:HA	1.86	0.55
1:Pk:47:VAL:HG22	1:Pk:76:VAL:HG22	1.89	0.55
2:QI:165:LYS:HE3	2:QI:168:GLU:HA	1.89	0.55
4:RJ:161:ILE:HA	4:RJ:186:ASN:HA	1.87	0.55
1:Ti:164:GLN:HE22	1:Ti:308:ARG:HA	1.71	0.55
1:UF:55:ALA:O	1:UW:86:TYR:OH	2.21	0.55
1:UO:286:ASP:HB2	1:UO:294:HIS:HB2	1.88	0.55
2:Vi:165:LYS:HE3	2:Vi:168:GLU:HA	1.89	0.55
6:YA:100:LEU:HD12	6:YA:101:PRO:HD2	1.88	0.55
6:YB:142:LYS:HA	6:YB:145:LEU:HD12	1.89	0.55
5:YJ:112:ASP:OD1	5:YJ:115:GLN:NE2	2.38	0.55
5:ZF:94:LEU:HD21	5:ZF:121:LEU:HD23	1.89	0.55
5:ZF:131:ILE:HD13	5:ZF:140:ILE:HD11	1.87	0.55
5:bE:112:ASP:OD1	5:bE:115:GLN:NE2	2.37	0.55
5:bW:112:ASP:OD1	5:bW:115:GLN:NE2	2.37	0.55
5:ce:112:ASP:OD1	5:ce:115:GLN:NE2	2.37	0.55
5:ck:103:LEU:HD12	5:ck:113:ILE:HG23	1.88	0.55
5:cs:112:ASP:OD1	5:cs:115:GLN:NE2	2.37	0.55
5:dM:112:ASP:OD1	5:dM:115:GLN:NE2	2.38	0.55
5:ew:55:ILE:O	5:ew:59:ILE:HG12	2.07	0.55
5:fK:112:ASP:OD1	5:fK:115:GLN:NE2	2.38	0.55
5:fM:112:ASP:OD1	5:fM:115:GLN:NE2	2.39	0.55
5:fs:112:ASP:OD1	5:fs:115:GLN:NE2	2.38	0.55
1:Ad:178:ASP:OD1	1:Ad:179:LYS:N	2.38	0.55
1:Au:143:LYS:HA	2:CM:39:ARG:HE	1.71	0.55
1:BQ:216:PRO:HA	1:BQ:229:LYS:HA	1.89	0.55
1:Ba:161:MET:SD	2:Cb:31:LEU:HD21	2.47	0.55
2:Bo:63:PRO:HB2	2:Bo:85:GLU:HG2	1.88	0.55
2:CX:57:ASP:O	1:GB:65:ASN:ND2	2.39	0.55
1:FH:8:TYR:CD2	1:FH:93:GLN:HG3	2.42	0.55
1:Jr:57:PRO:HA	1:Jv:86:TYR:HE1	1.72	0.55
1:Jy:296:TYR:HE2	1:KE:67:ILE:HG13	1.72	0.55
1:Kg:55:ALA:O	1:Kj:86:TYR:OH	2.23	0.55
1:Ko:55:ALA:O	1:Kr:86:TYR:OH	2.19	0.55
1:Kx:174:LYS:O	1:Kx:212:LYS:NZ	2.39	0.55
2:Lk:9:GLN:O	2:Lk:13:LYS:HG2	2.07	0.55
4:MU:69:TYR:HB2	4:MU:108:ILE:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OW:307:THR:HG22	4:RH:32:LEU:HB2	1.88	0.55
1:PA:165:ILE:HD13	1:PA:191:LEU:HD23	1.89	0.55
1:PM:174:LYS:O	1:PM:212:LYS:NZ	2.39	0.55
1:PS:164:GLN:HE22	1:PS:308:ARG:HA	1.72	0.55
1:PT:152:LEU:HD21	2:Ql:105:SER:HA	1.89	0.55
1:PT:286:ASP:HB2	1:PT:294:HIS:HB2	1.88	0.55
1:PZ:296:TYR:HE2	1:Pa:67:ILE:HG13	1.70	0.55
1:Pj:165:ILE:HD13	1:Pj:191:LEU:HD23	1.88	0.55
1:Pm:257:HIS:CE1	1:Pm:318:GLN:HG3	2.42	0.55
1:Ps:165:ILE:HD13	1:Ps:191:LEU:HD23	1.88	0.55
1:Ps:257:HIS:CE1	1:Ps:318:GLN:HG3	2.40	0.55
2:QH:63:PRO:HB2	2:QH:85:GLU:HG2	1.89	0.55
2:QZ:9:GLN:O	2:QZ:13:LYS:HG2	2.07	0.55
4:RE:77:ILE:HG12	4:RE:91:PRO:HB3	1.88	0.55
4:Rb:69:TYR:HB2	4:Rb:108:ILE:HD12	1.87	0.55
1:UI:152:LEU:HD21	2:Va:105:SER:HA	1.89	0.55
1:UT:79:LEU:HD11	1:UT:305:LEU:HB2	1.87	0.55
2:Ux:165:LYS:HE3	2:Ux:168:GLU:HA	1.89	0.55
2:VB:180:ASN:ND2	4:Vx:186:ASN:O	2.38	0.55
2:VO:9:GLN:O	2:VO:13:LYS:HG2	2.07	0.55
6:Xy:142:LYS:HA	6:Xy:145:LEU:HD12	1.89	0.55
5:YR:80:ALA:CB	5:YU:80:ALA:HB3	2.34	0.55
5:YS:126:VAL:HG22	5:YS:154:LEU:HG	1.89	0.55
5:YV:80:ALA:HB1	5:YW:84:ASN:HB2	1.87	0.55
5:Yr:76:LEU:HD22	5:Ys:76:LEU:HD21	1.87	0.55
5:ZB:94:LEU:HD21	5:ZB:121:LEU:HD23	1.89	0.55
5:ZD:126:VAL:HG22	5:ZD:154:LEU:HG	1.88	0.55
5:ZK:55:ILE:HG21	5:ZW:116:ALA:HB1	1.87	0.55
5:aq:55:ILE:O	5:aq:59:ILE:HG12	2.07	0.55
5:bA:112:ASP:OD1	5:bA:115:GLN:NE2	2.37	0.55
5:bU:112:ASP:OD1	5:bU:115:GLN:NE2	2.38	0.55
5:do:55:ILE:O	5:do:59:ILE:HG12	2.07	0.55
5:eq:55:ILE:O	5:eq:59:ILE:HG12	2.06	0.55
1:AD:307:THR:HG22	4:Co:32:LEU:HB2	1.88	0.55
1:AH:261:ILE:HD12	1:AH:312:LEU:HD23	1.89	0.55
1:AX:239:LYS:HB3	1:AX:244:ARG:HG2	1.88	0.55
1:Ah:307:THR:O	1:Ah:310:THR:OG1	2.24	0.55
1:BA:84:LEU:HB3	1:BJ:57:PRO:HB2	1.89	0.55
1:Ez:57:PRO:HB2	1:FD:84:LEU:HD13	1.89	0.55
1:FZ:158:LEU:HB3	1:FZ:260:LEU:HD21	1.87	0.55
1:Fr:143:LYS:HA	2:HJ:39:ARG:HE	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fv:49:TRP:CZ3	1:Fv:74:SER:HB3	2.42	0.55
1:GQ:259:ILE:HB	1:GQ:314:VAL:HB	1.87	0.55
1:GT:26:TYR:O	5:Jd:218:TYR:OH	2.18	0.55
4:Hq:161:ILE:HA	4:Hq:186:ASN:HA	1.88	0.55
1:Jg:107:ASP:OD2	1:Jg:110:ASN:ND2	2.36	0.55
1:KE:164:GLN:HE22	1:KE:308:ARG:HA	1.71	0.55
1:KO:158:LEU:HB3	1:KO:260:LEU:HD21	1.86	0.55
1:Kb:57:PRO:HG2	1:Ks:84:LEU:HD13	1.88	0.55
1:Kl:165:ILE:HD13	1:Kl:191:LEU:HD23	1.89	0.55
1:Ku:59:THR:O	4:RV:61:ASN:ND2	2.39	0.55
1:LD:55:ALA:O	1:LG:86:TYR:OH	2.18	0.55
1:LD:212:LYS:HA	1:LD:215:LYS:HE3	1.88	0.55
1:LH:87:LYS:NZ	2:La:53:THR:O	2.26	0.55
2:Lb:76:SER:HB3	2:Lb:87:GLU:HG2	1.89	0.55
2:MJ:123:LEU:HD21	2:MJ:131:VAL:HG21	1.88	0.55
4:Mk:69:TYR:HB2	4:Mk:108:ILE:HD12	1.87	0.55
1:Oq:239:LYS:HB3	1:Oq:244:ARG:HG2	1.88	0.55
1:PT:259:ILE:HB	1:PT:314:VAL:HB	1.88	0.55
1:Pt:77:VAL:HG21	2:Qu:32:LEU:HD23	1.87	0.55
1:Pt:161:MET:SD	2:Qu:31:LEU:HD21	2.47	0.55
3:RC:102:THR:HG21	4:RN:56:PHE:HA	1.88	0.55
4:RS:51:THR:HG21	4:RS:180:LYS:HE3	1.88	0.55
1:Tc:296:TYR:HE2	1:Ti:67:ILE:HG13	1.72	0.55
1:Tq:143:LYS:HA	2:VK:39:ARG:HE	1.71	0.55
1:UP:66:THR:HG22	2:Ve:52:CYS:HB3	1.89	0.55
1:UP:86:TYR:OH	1:UX:55:ALA:O	2.20	0.55
1:Uc:135:LEU:HD21	1:Uc:255:LEU:HG	1.88	0.55
1:Ue:86:TYR:OH	1:Um:55:ALA:O	2.24	0.55
2:Uw:63:PRO:HB2	2:Uw:85:GLU:HG2	1.89	0.55
2:VD:56:LYS:HD2	4:Vy:56:PHE:HD1	1.71	0.55
5:YS:90:ALA:HB2	5:YS:121:LEU:HD11	1.88	0.55
5:Yd:128:ILE:HA	5:Yd:131:ILE:HD12	1.89	0.55
5:ZO:55:ILE:HD13	5:ZS:117:GLN:HE22	1.70	0.55
5:Zk:112:ASP:OD1	5:Zk:115:GLN:NE2	2.40	0.55
5:Zo:111:LYS:NZ	5:Zr:74:LYS:HE3	2.21	0.55
5:ak:55:ILE:O	5:ak:59:ILE:HG12	2.07	0.55
5:cS:112:ASP:OD1	5:cS:115:GLN:NE2	2.38	0.55
5:cw:112:ASP:OD1	5:cw:115:GLN:NE2	2.37	0.55
5:dc:112:ASP:OD1	5:dc:115:GLN:NE2	2.38	0.55
5:dm:55:ILE:O	5:dm:59:ILE:HG12	2.07	0.55
5:eI:112:ASP:OD1	5:eI:115:GLN:NE2	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:em:55:ILE:O	5:em:59:ILE:HG12	2.07	0.55
5:fE:112:ASP:OD1	5:fE:115:GLN:NE2	2.39	0.55
5:fW:55:ILE:O	5:fW:59:ILE:HG12	2.07	0.55
5:gC:112:ASP:OD1	5:gC:115:GLN:NE2	2.38	0.55
1:AS:8:TYR:CD2	1:AS:93:GLN:HG3	2.42	0.55
1:AU:26:TYR:O	5:De:218:TYR:OH	2.23	0.55
1:Al:217:TYR:O	1:Al:225:SER:N	2.37	0.55
1:BK:59:THR:O	4:DA:61:ASN:ND2	2.39	0.55
1:BL:196:GLU:HB3	1:BL:265:ASN:HD22	1.70	0.55
1:BQ:77:VAL:HG21	2:HJ:32:LEU:HD23	1.87	0.55
1:BT:257:HIS:CE1	1:BT:318:GLN:HG3	2.42	0.55
1:BU:135:LEU:HD21	1:BU:255:LEU:HG	1.88	0.55
1:BX:286:ASP:HB2	1:BX:294:HIS:HB2	1.89	0.55
1:Bb:152:LEU:HD21	4:DJ:112:SER:HA	1.88	0.55
2:Bt:75:LEU:HD22	2:Bt:84:LEU:HD21	1.88	0.55
2:CV:123:LEU:HD21	2:CV:131:VAL:HG21	1.88	0.55
2:Ca:165:LYS:HE3	2:Ca:168:GLU:HA	1.89	0.55
1:FS:286:ASP:HB2	1:FS:294:HIS:HB2	1.88	0.55
1:Fj:80:ASN:ND2	1:Fj:153:PRO:O	2.30	0.55
1:Ft:257:HIS:CE1	1:Ft:318:GLN:HG3	2.42	0.55
1:GF:261:ILE:HD12	1:GF:312:LEU:HD23	1.89	0.55
1:GJ:26:TYR:O	5:JT:218:TYR:OH	2.16	0.55
3:HY:102:THR:HG21	4:Hj:56:PHE:HA	1.88	0.55
1:Jo:57:PRO:HB2	1:Js:84:LEU:HD13	1.89	0.55
1:Kr:87:LYS:NZ	2:Lu:53:THR:O	2.36	0.55
1:Kx:257:HIS:CE1	1:Kx:318:GLN:HG3	2.42	0.55
2:Ls:180:ASN:O	4:Md:186:ASN:ND2	2.36	0.55
3:MN:141:MET:HE2	3:MN:160:ILE:HD12	1.87	0.55
1:Oq:87:LYS:NZ	4:RJ:53:THR:O	2.35	0.55
1:PP:165:ILE:HD13	1:PP:191:LEU:HD23	1.88	0.55
1:Pa:165:ILE:HD13	1:Pa:191:LEU:HD23	1.89	0.55
1:Pr:77:VAL:HG21	2:QR:32:LEU:HD23	1.89	0.55
1:Pu:152:LEU:HD21	4:Rc:112:SER:HA	1.89	0.55
2:QF:180:ASN:ND2	2:QG:180:ASN:O	2.40	0.55
2:Qo:123:LEU:HD21	2:Qo:131:VAL:HG21	1.88	0.55
4:RJ:69:TYR:HB2	4:RJ:108:ILE:HD12	1.89	0.55
4:RU:161:ILE:HA	4:RU:186:ASN:HA	1.88	0.55
4:Ra:77:ILE:HG13	4:Ra:91:PRO:HB3	1.89	0.55
1:TV:57:PRO:HA	1:TZ:86:TYR:HE1	1.72	0.55
1:UI:84:LEU:HB3	1:UR:57:PRO:HB2	1.89	0.55
1:US:307:THR:HG22	2:VY:32:LEU:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UU:164:GLN:HE22	1:UU:308:ARG:HA	1.72	0.55
1:Ub:261:ILE:HD12	1:Ub:312:LEU:HD23	1.88	0.55
1:Uc:89:ARG:HH21	1:Uc:112:LEU:HD21	1.71	0.55
1:Uj:152:LEU:HD21	4:WR:112:SER:HA	1.89	0.55
2:VW:137:LEU:HD11	2:VW:159:ALA:HB2	1.88	0.55
6:YI:142:LYS:HA	6:YI:145:LEU:HD12	1.89	0.55
5:YU:83:ILE:HG23	5:YU:114:MET:SD	2.46	0.55
5:Yp:94:LEU:HD21	5:Yp:121:LEU:HD23	1.89	0.55
5:Yr:94:LEU:HD21	5:Yr:121:LEU:HD23	1.89	0.55
5:Yv:131:ILE:HD13	5:Yv:140:ILE:HD11	1.89	0.55
5:ZU:111:LYS:NZ	5:ZX:74:LYS:HE3	2.21	0.55
5:Zc:55:ILE:O	5:Zc:59:ILE:HG12	2.07	0.55
5:Ze:111:LYS:NZ	5:Zh:74:LYS:HE3	2.22	0.55
5:aC:55:ILE:O	5:aC:59:ILE:HG12	2.07	0.55
5:aO:55:ILE:O	5:aO:59:ILE:HG12	2.06	0.55
5:dw:98:PHE:HB3	5:dw:117:GLN:HE22	1.71	0.55
5:fU:112:ASP:OD1	5:fU:115:GLN:NE2	2.37	0.55
1:AH:317:LYS:NZ	1:AH:319:SER:OXT	2.40	0.55
1:AJ:286:ASP:HB2	1:AJ:294:HIS:HB2	1.89	0.55
1:AQ:261:ILE:HD12	1:AQ:312:LEU:HD23	1.88	0.55
1:BA:286:ASP:HB2	1:BA:294:HIS:HB2	1.88	0.55
1:BL:231:GLU:OE2	1:UQ:244:ARG:NH2	2.34	0.55
1:BT:307:THR:HG22	2:Cg:32:LEU:HB2	1.89	0.55
1:Ba:164:GLN:HE22	1:Ba:308:ARG:HA	1.71	0.55
2:CF:69:TYR:HB2	2:CF:101:ILE:HD12	1.89	0.55
4:DB:161:ILE:HA	4:DB:186:ASN:HA	1.88	0.55
4:DF:36:ASN:HD22	1:UQ:194:GLY:HA3	1.72	0.55
1:Er:55:ALA:O	1:Et:86:TYR:OH	2.20	0.55
1:Ey:286:ASP:HB2	1:Ey:294:HIS:HB2	1.89	0.55
1:Ez:226:SER:OG	1:FK:226:SER:O	2.25	0.55
1:Fw:165:ILE:HD13	1:Fw:191:LEU:HD23	1.89	0.55
1:Fy:261:ILE:HD12	1:Fy:312:LEU:HD23	1.88	0.55
1:GG:47:VAL:HG22	1:GG:76:VAL:HG22	1.89	0.55
1:GT:164:GLN:HE22	1:GT:308:ARG:HA	1.71	0.55
2:Gu:69:TYR:HB2	2:Gu:101:ILE:HD12	1.89	0.55
4:Ha:77:ILE:HG12	4:Ha:91:PRO:HB3	1.89	0.55
4:Ha:161:ILE:HA	4:Ha:186:ASN:HA	1.89	0.55
1:KO:55:ALA:O	1:KS:86:TYR:OH	2.25	0.55
1:Kf:87:LYS:NZ	2:Lx:53:THR:O	2.32	0.55
1:LI:26:TYR:O	5:OS:218:TYR:OH	2.18	0.55
2:LN:137:LEU:HD11	2:LN:159:ALA:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LQ:180:ASN:ND2	2:LR:180:ASN:O	2.40	0.55
2:Lz:123:LEU:HD21	2:Lz:131:VAL:HG21	1.88	0.55
4:MP:77:ILE:HG12	4:MP:91:PRO:HB3	1.89	0.55
1:OY:107:ASP:OD2	1:OY:110:ASN:ND2	2.32	0.55
1:PZ:286:ASP:HB2	1:PZ:294:HIS:HB2	1.88	0.55
1:Pi:49:TRP:CZ3	1:Pi:74:SER:HB3	2.42	0.55
1:Pk:52:PHE:HB3	4:Ra:41:LYS:HE2	1.89	0.55
2:Qc:137:LEU:HD11	2:Qc:159:ALA:HB2	1.89	0.55
2:RA:148:VAL:HG21	2:RA:155:VAL:HG12	1.89	0.55
4:RE:161:ILE:HA	4:RE:186:ASN:HA	1.89	0.55
4:RJ:36:ASN:HD22	1:Tc:195:ASP:H	1.53	0.55
1:Tg:80:ASN:ND2	1:Tg:153:PRO:O	2.39	0.55
1:Tp:307:THR:O	1:Tp:310:THR:OG1	2.24	0.55
1:UH:164:GLN:HE22	1:UH:308:ARG:HA	1.72	0.55
1:UP:78:ARG:O	1:UP:154:ASN:ND2	2.33	0.55
1:UZ:47:VAL:HG22	1:UZ:76:VAL:HG22	1.89	0.55
1:Ue:194:GLY:HA3	2:Vm:36:ILE:HG21	1.89	0.55
2:VF:76:SER:HB3	2:VF:87:GLU:HG2	1.89	0.55
4:Vy:69:TYR:HB2	4:Vy:108:ILE:HD12	1.89	0.55
4:WE:93:VAL:HG21	4:WE:117:ILE:HD11	1.89	0.55
5:YK:81:GLU:HA	5:YK:84:ASN:HD21	1.72	0.55
5:Ya:112:ASP:OD1	5:Ya:115:GLN:NE2	2.38	0.55
5:ZN:128:ILE:O	5:ZN:132:LYS:HG2	2.06	0.55
5:Zg:111:LYS:NZ	5:Zj:74:LYS:HE3	2.22	0.55
5:cA:112:ASP:OD1	5:cA:115:GLN:NE2	2.37	0.55
5:es:55:ILE:O	5:es:59:ILE:HG12	2.06	0.55
5:fC:112:ASP:OD1	5:fC:115:GLN:NE2	2.39	0.55
1:AD:86:TYR:OH	1:AG:55:ALA:O	2.22	0.55
1:AT:87:LYS:NZ	2:Bs:53:THR:O	2.34	0.55
1:AX:84:LEU:HD13	1:FJ:57:PRO:HB2	1.89	0.55
1:Aa:164:GLN:HE22	1:Aa:308:ARG:HA	1.71	0.55
1:Ad:286:ASP:HB2	1:Ad:294:HIS:HB2	1.88	0.55
1:BA:152:LEU:HD21	2:CS:105:SER:HA	1.89	0.55
1:BA:165:ILE:HD13	1:BA:191:LEU:HD23	1.89	0.55
1:BI:89:ARG:HH21	1:BI:112:LEU:HD21	1.72	0.55
1:BJ:261:ILE:HD12	1:BJ:312:LEU:HD23	1.88	0.55
1:BM:164:GLN:HE22	1:BM:308:ARG:HA	1.72	0.55
4:DJ:41:LYS:HE2	1:GM:52:PHE:HB3	1.88	0.55
1:Eu:150:ARG:HH12	4:HZ:92:HIS:CD2	2.25	0.55
1:FC:57:PRO:HA	1:FG:86:TYR:HE1	1.72	0.55
1:Fo:165:ILE:HD13	1:Fo:191:LEU:HD23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fp:165:ILE:HD13	1:Fp:191:LEU:HD23	1.89	0.55
1:GP:161:MET:SD	2:HQ:31:LEU:HD21	2.47	0.55
1:Jj:150:ARG:HH12	4:MO:92:HIS:CD2	2.25	0.55
1:Kd:165:ILE:HD13	1:Kd:191:LEU:HD23	1.89	0.55
1:Ks:107:ASP:OD2	1:Ks:110:ASN:ND2	2.31	0.55
1:Kx:13:VAL:HA	1:Kx:16:ILE:HG22	1.89	0.55
1:Ky:26:TYR:O	5:OI:218:TYR:OH	2.16	0.55
1:Ky:135:LEU:HD21	1:Ky:255:LEU:HG	1.88	0.55
2:Lz:77:PHE:HB2	4:Mh:138:LYS:HE2	1.89	0.55
2:MM:63:PRO:HB2	2:MM:85:GLU:HG2	1.88	0.55
4:MW:107:ASP:HB3	4:MW:116:THR:HB	1.87	0.55
1:Od:226:SER:OG	1:Oo:226:SER:O	2.25	0.55
1:Oq:84:LEU:HD13	1:Tc:57:PRO:HB2	1.89	0.55
1:PS:165:ILE:HD13	1:PS:191:LEU:HD23	1.89	0.55
2:QM:180:ASN:ND2	4:RI:186:ASN:O	2.38	0.55
2:QO:56:LYS:HD2	4:RJ:56:PHE:HD1	1.72	0.55
2:QY:165:LYS:HE3	2:QY:168:GLU:HA	1.89	0.55
1:TL:307:THR:HG22	4:Vw:32:LEU:HB2	1.88	0.55
1:UC:80:ASN:ND2	1:UC:153:PRO:O	2.30	0.55
1:UF:57:PRO:HG2	1:UW:84:LEU:HD13	1.88	0.55
1:UI:165:ILE:HD13	1:UI:191:LEU:HD23	1.89	0.55
1:UM:257:HIS:CE1	1:UM:318:GLN:HG3	2.42	0.55
2:VE:77:PHE:HD2	4:Vz:138:LYS:HG3	1.71	0.55
6:YC:142:LYS:HA	6:YC:145:LEU:HD12	1.89	0.55
5:Zc:111:LYS:NZ	5:Zf:74:LYS:HE3	2.22	0.55
5:aY:112:ASP:OD1	5:aY:115:GLN:NE2	2.38	0.55
5:ag:103:LEU:HD12	5:ag:113:ILE:HG23	1.87	0.55
5:cs:103:LEU:HD12	5:cs:113:ILE:HG23	1.87	0.55
5:ds:98:PHE:HB3	5:ds:117:GLN:HE22	1.72	0.55
5:eG:56:ASN:HB2	5:eo:146:GLU:H	1.72	0.55
5:gA:112:ASP:OD1	5:gA:115:GLN:NE2	2.37	0.55
1:BN:26:TYR:O	5:EX:218:TYR:OH	2.25	0.54
1:BW:194:GLY:HA3	2:Ce:36:ILE:HG21	1.89	0.54
1:Be:89:ARG:HH21	1:Be:112:LEU:HD21	1.73	0.54
2:Bt:180:ASN:ND2	4:Cp:186:ASN:O	2.38	0.54
4:Cq:31:LEU:HD21	1:FJ:161:MET:SD	2.47	0.54
4:Cq:69:TYR:HB2	4:Cq:108:ILE:HD12	1.89	0.54
1:FM:55:ALA:O	1:GS:86:TYR:OH	2.21	0.54
1:Ft:59:THR:O	4:Ht:61:ASN:ND2	2.40	0.54
1:Fx:89:ARG:HH21	1:Fx:112:LEU:HD21	1.72	0.54
1:GE:26:TYR:O	5:JO:218:TYR:OH	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GY:137:LEU:HD11	2:GY:159:ALA:HB2	1.89	0.54
2:Gb:180:ASN:ND2	2:Gc:180:ASN:O	2.40	0.54
2:Ge:165:LYS:HE3	2:Ge:168:GLU:HA	1.89	0.54
4:Hh:161:ILE:HA	4:Hh:186:ASN:HA	1.89	0.54
1:Jl:317:LYS:NZ	1:Jl:319:SER:OXT	2.40	0.54
1:KP:143:LYS:HE3	2:Li:40:ASP:HB2	1.88	0.54
1:Ki:13:VAL:HA	1:Ki:16:ILE:HG22	1.89	0.54
1:Kl:66:THR:HG22	2:MA:52:CYS:HB3	1.89	0.54
1:LB:286:ASP:HB2	1:LB:294:HIS:HB2	1.89	0.54
2:MB:77:PHE:HB2	4:Mi:138:LYS:HE2	1.89	0.54
4:MW:161:ILE:HA	4:MW:186:ASN:HA	1.89	0.54
1:PL:41:MET:HG2	2:Qf:104:PHE:HE2	1.72	0.54
1:PX:257:HIS:CE1	1:PX:318:GLN:HG3	2.42	0.54
1:Pj:261:ILE:HD12	1:Pj:312:LEU:HD23	1.89	0.54
2:QC:137:LEU:HD11	2:QC:159:ALA:HB2	1.89	0.54
2:Qh:137:LEU:HD11	2:Qh:159:ALA:HB2	1.89	0.54
1:UH:165:ILE:HD13	1:UH:191:LEU:HD23	1.89	0.54
6:YF:142:LYS:HA	6:YF:145:LEU:HD12	1.89	0.54
5:YJ:81:GLU:HA	5:YJ:84:ASN:HD21	1.72	0.54
5:YQ:79:GLU:O	5:YQ:83:ILE:HG12	2.06	0.54
5:Zo:112:ASP:OD1	5:Zo:115:GLN:NE2	2.40	0.54
5:Zq:112:ASP:OD1	5:Zq:115:GLN:NE2	2.40	0.54
5:Zs:111:LYS:NZ	5:Zv:74:LYS:HE3	2.22	0.54
5:aG:111:LYS:NZ	5:aJ:74:LYS:HE3	2.23	0.54
5:be:103:LEU:HD12	5:be:113:ILE:HG23	1.89	0.54
5:dM:98:PHE:HB3	5:dM:117:GLN:HE22	1.71	0.54
5:dO:112:ASP:OD1	5:dO:115:GLN:NE2	2.38	0.54
5:fV:74:LYS:HE3	5:fW:111:LYS:NZ	2.22	0.54
5:fw:112:ASP:OD1	5:fw:115:GLN:NE2	2.37	0.54
5:fy:112:ASP:OD1	5:fy:115:GLN:NE2	2.37	0.54
1:AU:78:ARG:NH2	4:Vy:28:ASP:OD2	2.41	0.54
1:Ac:55:ALA:O	1:Ae:86:TYR:OH	2.21	0.54
1:Al:143:LYS:HE3	2:CE:40:ASP:HB2	1.88	0.54
1:BC:47:VAL:HG22	1:BC:76:VAL:HG22	1.90	0.54
1:BI:26:TYR:O	5:ES:218:TYR:OH	2.20	0.54
1:BL:89:ARG:HH21	1:BL:112:LEU:HD21	1.73	0.54
1:BQ:261:ILE:HD12	1:BQ:312:LEU:HD23	1.89	0.54
1:Bc:26:TYR:O	5:Em:218:TYR:OH	2.24	0.54
2:CF:165:LYS:HE3	2:CF:168:GLU:HA	1.89	0.54
1:FP:164:GLN:HE22	1:FP:308:ARG:HA	1.71	0.54
1:Fp:84:LEU:HB3	1:Fy:57:PRO:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ft:13:VAL:HA	1:Ft:16:ILE:HG22	1.89	0.54
1:GI:13:VAL:HA	1:GI:16:ILE:HG22	1.89	0.54
2:Gi:75:LEU:HD22	2:Gi:84:LEU:HD21	1.88	0.54
2:Gj:77:PHE:HB2	4:Hf:138:LYS:HE2	1.87	0.54
2:Gr:22:MET:HE3	2:Gr:25:PRO:HB3	1.90	0.54
2:HP:165:LYS:HE3	2:HP:168:GLU:HA	1.89	0.54
4:Hy:69:TYR:HB2	4:Hy:108:ILE:HD12	1.89	0.54
1:Jn:286:ASP:HB2	1:Jn:294:HIS:HB2	1.89	0.54
1:KV:174:LYS:O	1:KV:212:LYS:NZ	2.41	0.54
1:Ke:259:ILE:HB	1:Ke:314:VAL:HB	1.88	0.54
1:Kk:49:TRP:CZ3	1:Kk:74:SER:HB3	2.42	0.54
1:Ku:165:ILE:HD13	1:Ku:191:LEU:HD23	1.88	0.54
1:LA:194:GLY:HA3	2:MI:36:ILE:HG21	1.89	0.54
1:LF:259:ILE:HB	1:LF:314:VAL:HB	1.88	0.54
2:MH:125:LYS:NZ	2:MH:168:GLU:O	2.38	0.54
1:Ol:66:THR:OG1	4:RL:58:LYS:NZ	2.40	0.54
1:Pp:194:GLY:HA3	2:Qx:36:ILE:HG21	1.90	0.54
2:QY:69:TYR:HB2	2:QY:101:ILE:HD12	1.89	0.54
1:TQ:87:LYS:NZ	2:Ut:53:THR:O	2.38	0.54
1:TR:286:ASP:HB2	1:TR:294:HIS:HB2	1.89	0.54
1:TY:261:ILE:HD12	1:TY:312:LEU:HD23	1.88	0.54
1:Tf:239:LYS:HB3	1:Tf:244:ARG:HG2	1.88	0.54
1:UC:143:LYS:HA	2:VU:39:ARG:HE	1.71	0.54
1:UY:216:PRO:HA	1:UY:229:LYS:HA	1.88	0.54
1:Ui:110:ASN:OD1	1:Ul:62:ASN:ND2	2.37	0.54
1:Uk:26:TYR:O	5:Xu:218:TYR:OH	2.25	0.54
2:VB:75:LEU:HD22	2:VB:84:LEU:HD21	1.88	0.54
2:VN:69:TYR:HB2	2:VN:101:ILE:HD12	1.89	0.54
2:VN:165:LYS:HE3	2:VN:168:GLU:HA	1.89	0.54
5:YQ:112:ASP:OD1	5:YQ:115:GLN:NE2	2.38	0.54
5:Yf:146:GLU:HA	5:Yf:149:GLU:HB3	1.89	0.54
5:Yl:94:LEU:HD21	5:Yl:121:LEU:HD23	1.88	0.54
5:Yr:84:ASN:ND2	5:Ys:80:ALA:O	2.40	0.54
5:ax:128:ILE:O	5:ax:132:LYS:HG2	2.08	0.54
5:ba:55:ILE:HG21	5:cG:116:ALA:HB2	1.89	0.54
5:bq:111:LYS:HZ2	5:bt:74:LYS:HE3	1.71	0.54
5:dc:98:PHE:HB3	5:dc:117:GLN:HE22	1.72	0.54
5:eQ:112:ASP:OD1	5:eQ:115:GLN:NE2	2.38	0.54
5:ee:112:ASP:OD1	5:ee:115:GLN:NE2	2.39	0.54
5:fT:74:LYS:HE3	5:fU:111:LYS:NZ	2.23	0.54
5:fx:128:ILE:O	5:fx:132:LYS:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:107:ASP:OD2	1:AC:110:ASN:ND2	2.36	0.54
1:AY:86:TYR:OH	1:AZ:55:ALA:O	2.20	0.54
1:BE:13:VAL:HA	1:BE:16:ILE:HG22	1.89	0.54
1:BR:47:VAL:HG22	1:BR:76:VAL:HG22	1.89	0.54
1:BT:261:ILE:HD12	1:BT:312:LEU:HD23	1.88	0.54
1:BX:52:PHE:HB3	4:WR:41:LYS:HE2	1.89	0.54
1:BX:87:LYS:NZ	2:Cg:53:THR:O	2.35	0.54
2:CP:133:PRO:HG3	2:CP:161:SER:HA	1.89	0.54
4:DF:69:TYR:HB2	4:DF:108:ILE:HD12	1.90	0.54
1:Er:107:ASP:OD2	1:Er:110:ASN:ND2	2.36	0.54
1:Fo:164:GLN:HE22	1:Fo:308:ARG:HA	1.72	0.54
1:Fp:286:ASP:HB2	1:Fp:294:HIS:HB2	1.88	0.54
1:GE:49:TRP:CZ3	1:GE:74:SER:HB3	2.42	0.54
1:GN:77:VAL:HG21	2:Gn:32:LEU:HD23	1.89	0.54
2:HE:133:PRO:HG3	2:HE:161:SER:HA	1.89	0.54
3:HY:181:LEU:HD11	3:HY:204:ALA:HB2	1.88	0.54
4:Hr:69:TYR:HB2	4:Hr:108:ILE:HD12	1.89	0.54
1:KO:256:LYS:HG2	1:KO:257:HIS:CD2	2.42	0.54
1:KZ:66:THR:HG22	2:Lj:52:CYS:HB3	1.89	0.54
1:Kd:164:GLN:HE22	1:Kd:308:ARG:HA	1.72	0.54
1:Ko:87:LYS:NZ	2:MD:53:THR:O	2.28	0.54
1:Kv:47:VAL:HG22	1:Kv:76:VAL:HG22	1.89	0.54
1:LI:161:MET:SD	2:MJ:31:LEU:HD21	2.48	0.54
2:LT:165:LYS:HE3	2:LT:168:GLU:HA	1.89	0.54
2:Lg:22:MET:HE3	2:Lg:25:PRO:HB3	1.90	0.54
2:Lr:23:LYS:N	2:Lr:67:TYR:OH	2.41	0.54
1:Oo:87:LYS:NZ	2:QN:53:THR:O	2.31	0.54
2:Qt:165:LYS:HE3	2:Qt:168:GLU:HA	1.89	0.54
1:TK:107:ASP:OD2	1:TK:110:ASN:ND2	2.36	0.54
1:TP:261:ILE:HD12	1:TP:312:LEU:HD23	1.89	0.54
1:Tc:143:LYS:HA	2:VB:39:ARG:HE	1.71	0.54
1:Tk:307:THR:HG22	2:VJ:32:LEU:HB2	1.90	0.54
1:Ua:57:PRO:HA	1:Uh:86:TYR:HE1	1.73	0.54
1:Um:78:ARG:O	1:Um:154:ASN:ND2	2.32	0.54
2:Up:137:LEU:HD11	2:Up:159:ALA:HB2	1.90	0.54
2:VK:22:MET:HE3	2:VK:25:PRO:HB3	1.90	0.54
4:Vs:93:VAL:HG21	4:Vs:117:ILE:HD11	1.90	0.54
4:WH:51:THR:HG21	4:WH:180:LYS:HE3	1.88	0.54
4:WJ:161:ILE:HA	4:WJ:186:ASN:HA	1.88	0.54
5:YU:86:ILE:HG13	5:YU:118:ARG:HE	1.72	0.54
5:YY:83:ILE:HG12	5:YY:114:MET:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yx:94:LEU:HD21	5:Yx:121:LEU:HD23	1.90	0.54
5:Zk:111:LYS:NZ	5:Zn:74:LYS:HE3	2.22	0.54
5:ag:98:PHE:HB3	5:ag:117:GLN:HE22	1.72	0.54
5:bF:128:ILE:O	5:bF:132:LYS:HG2	2.08	0.54
5:bY:112:ASP:OD1	5:bY:115:GLN:NE2	2.38	0.54
5:cu:112:ASP:OD1	5:cu:115:GLN:NE2	2.38	0.54
5:cv:128:ILE:O	5:cv:132:LYS:HG2	2.08	0.54
5:dX:128:ILE:O	5:dX:132:LYS:HG2	2.08	0.54
5:dm:147:ILE:HG13	5:eU:55:ILE:HG23	1.90	0.54
5:eS:112:ASP:OD1	5:eS:115:GLN:NE2	2.39	0.54
5:es:112:ASP:OD1	5:es:115:GLN:NE2	2.38	0.54
5:fI:98:PHE:HB3	5:fI:117:GLN:HE22	1.72	0.54
5:fX:128:ILE:O	5:fX:132:LYS:HG2	2.08	0.54
1:Ac:174:LYS:O	1:Ac:212:LYS:NZ	2.40	0.54
1:BA:78:ARG:O	1:BA:154:ASN:ND2	2.31	0.54
1:BG:49:TRP:CZ3	1:BG:74:SER:HB3	2.42	0.54
1:BK:307:THR:HG22	2:CQ:32:LEU:HB2	1.88	0.54
1:BP:49:TRP:CZ3	1:BP:74:SER:HB3	2.42	0.54
1:BU:77:VAL:HG21	2:CV:32:LEU:HD23	1.89	0.54
2:CO:137:LEU:HD11	2:CO:159:ALA:HB2	1.88	0.54
2:CX:22:MET:HG3	2:CX:26:GLN:HE22	1.72	0.54
2:Ch:148:VAL:HG21	2:Ch:155:VAL:HG12	1.89	0.54
4:Cw:93:VAL:HG21	4:Cw:117:ILE:HD11	1.89	0.54
1:FH:140:SER:HB2	1:FH:148:GLN:HG2	1.88	0.54
1:FZ:256:LYS:HG2	1:FZ:257:HIS:CD2	2.42	0.54
1:Fw:66:THR:HG22	2:HL:52:CYS:HB3	1.89	0.54
1:GP:110:ASN:OD1	1:GS:62:ASN:ND2	2.37	0.54
1:GP:212:LYS:HA	1:GP:215:LYS:HE3	1.90	0.54
2:HR:32:LEU:HD23	1:Kf:77:VAL:HG21	1.90	0.54
1:Ke:286:ASP:HB2	1:Ke:294:HIS:HB2	1.88	0.54
1:Kp:196:GLU:HB3	1:Kp:265:ASN:HD22	1.70	0.54
1:Kr:26:TYR:O	5:OB:218:TYR:OH	2.25	0.54
1:Kx:55:ALA:O	1:LB:86:TYR:OH	2.20	0.54
2:LX:75:LEU:HD22	2:LX:84:LEU:HD21	1.88	0.54
2:MD:123:LEU:HD21	2:MD:131:VAL:HG21	1.89	0.54
4:MP:161:ILE:HA	4:MP:186:ASN:HA	1.89	0.54
4:Ml:77:ILE:HG13	4:Ml:91:PRO:HB3	1.89	0.54
1:Oc:286:ASP:HB2	1:Oc:294:HIS:HB2	1.89	0.54
1:PF:174:LYS:O	1:PF:212:LYS:NZ	2.41	0.54
1:PV:87:LYS:NZ	2:Qn:53:THR:O	2.39	0.54
1:Pg:87:LYS:NZ	2:Qj:53:THR:O	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RC:181:LEU:HD11	3:RC:204:ALA:HB2	1.87	0.54
1:TU:20:VAL:O	5:We:213:ARG:NH2	2.33	0.54
1:UP:165:ILE:HD13	1:UP:191:LEU:HD23	1.89	0.54
4:WF:93:VAL:HG21	4:WF:117:ILE:HD11	1.88	0.54
4:WP:77:ILE:HG13	4:WP:91:PRO:HB3	1.89	0.54
5:Yg:127:PRO:O	5:Yg:131:ILE:HG13	2.07	0.54
5:Yk:76:LEU:HD21	5:ZP:76:LEU:HD22	1.88	0.54
5:Yt:128:ILE:O	5:Yt:132:LYS:HG2	2.08	0.54
5:ZR:74:LYS:HE3	5:Zu:111:LYS:NZ	2.23	0.54
5:Zl:128:ILE:O	5:Zl:132:LYS:HG2	2.08	0.54
5:ai:55:ILE:O	5:ai:59:ILE:HG12	2.08	0.54
5:bA:98:PHE:HB3	5:bA:117:GLN:HE22	1.73	0.54
5:bA:111:LYS:NZ	5:bD:74:LYS:HE3	2.23	0.54
5:bd:128:ILE:O	5:bd:132:LYS:HG2	2.08	0.54
5:bh:128:ILE:O	5:bh:132:LYS:HG2	2.08	0.54
5:bo:111:LYS:NZ	5:br:74:LYS:HE3	2.23	0.54
5:cG:103:LEU:HD12	5:cG:113:ILE:HG23	1.89	0.54
5:cN:128:ILE:O	5:cN:132:LYS:HG2	2.08	0.54
5:cs:111:LYS:HZ2	5:cv:74:LYS:HE3	1.73	0.54
5:dN:128:ILE:O	5:dN:132:LYS:HG2	2.08	0.54
5:da:112:ASP:OD1	5:da:115:GLN:NE2	2.38	0.54
5:di:55:ILE:O	5:di:59:ILE:HG12	2.06	0.54
5:du:111:LYS:NZ	5:dx:74:LYS:HE3	2.23	0.54
5:eE:111:LYS:NZ	5:eH:74:LYS:HE3	2.23	0.54
5:eO:112:ASP:OD1	5:eO:115:GLN:NE2	2.38	0.54
5:ek:112:ASP:OD1	5:ek:115:GLN:NE2	2.39	0.54
5:fG:112:ASP:OD1	5:fG:115:GLN:NE2	2.39	0.54
5:fR:74:LYS:HE3	5:fS:111:LYS:NZ	2.23	0.54
5:fS:55:ILE:O	5:fS:59:ILE:HG12	2.08	0.54
5:fW:112:ASP:OD1	5:fW:115:GLN:NE2	2.37	0.54
5:fr:128:ILE:O	5:fr:132:LYS:HG2	2.08	0.54
5:ft:128:ILE:O	5:ft:132:LYS:HG2	2.08	0.54
1:Ac:307:THR:HG22	2:CB:32:LEU:HB2	1.90	0.54
1:Am:86:TYR:OH	1:Ap:55:ALA:O	2.21	0.54
1:Ao:49:TRP:CZ3	1:Ao:74:SER:HB3	2.43	0.54
2:By:77:PHE:HD2	4:Cs:138:LYS:HE2	1.73	0.54
4:Cx:93:VAL:HG21	4:Cx:117:ILE:HD11	1.88	0.54
4:DC:69:TYR:HB2	4:DC:108:ILE:HD12	1.89	0.54
5:Dq:193:ASN:HB3	5:Yd:96:ASN:HD22	1.71	0.54
1:FJ:87:LYS:NZ	2:Gi:53:THR:O	2.30	0.54
1:GJ:77:VAL:HG21	2:HK:32:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HC:23:LYS:N	2:HC:67:TYR:OH	2.41	0.54
1:KW:41:MET:HG2	2:Lq:104:PHE:HE2	1.72	0.54
1:KX:86:TYR:OH	1:PP:55:ALA:O	2.23	0.54
1:KX:164:GLN:HE22	1:KX:308:ARG:HA	1.73	0.54
1:Kx:307:THR:HG22	2:MK:32:LEU:HB2	1.89	0.54
2:LP:63:PRO:HB2	2:LP:85:GLU:HG2	1.90	0.54
2:Lj:69:TYR:HB2	2:Lj:101:ILE:HD12	1.89	0.54
4:MR:149:LEU:HD13	4:MR:181:VAL:HG21	1.90	0.54
4:Md:51:THR:HG21	4:Md:180:LYS:HE3	1.88	0.54
1:OT:20:VAL:O	5:Rd:213:ARG:NH2	2.41	0.54
1:Oa:317:LYS:NZ	1:Oa:319:SER:OXT	2.40	0.54
1:Od:57:PRO:HB2	1:Oh:84:LEU:HD13	1.89	0.54
1:Og:57:PRO:HA	1:Ok:86:TYR:HE1	1.72	0.54
1:PT:84:LEU:HB3	1:Pc:57:PRO:HB2	1.89	0.54
1:PX:59:THR:O	4:RX:61:ASN:ND2	2.41	0.54
1:Pd:307:THR:HG22	2:Qj:32:LEU:HB2	1.88	0.54
1:Pe:49:TRP:CZ3	1:Pe:74:SER:HB3	2.43	0.54
2:Qg:23:LYS:N	2:Qg:67:TYR:OH	2.41	0.54
4:RZ:57:ASP:O	1:UJ:65:ASN:ND2	2.41	0.54
1:TT:13:VAL:HA	1:TT:16:ILE:HG22	1.90	0.54
1:Tg:87:LYS:NZ	4:Vz:53:THR:O	2.35	0.54
1:UX:49:TRP:CZ3	1:UX:74:SER:HB3	2.42	0.54
1:Uc:66:THR:HG22	2:Vd:52:CYS:HB3	1.90	0.54
2:Vf:22:MET:HG3	2:Vf:26:GLN:HE22	1.72	0.54
3:Vr:102:THR:HG22	4:WC:56:PHE:HD1	1.72	0.54
4:Vv:149:LEU:HD13	4:Vv:181:VAL:HG21	1.90	0.54
5:Yw:153:SER:HB2	5:Yx:133:ALA:HB1	1.90	0.54
5:ZI:131:ILE:HD13	5:ZI:140:ILE:HD11	1.90	0.54
5:ZK:112:ASP:OD1	5:ZK:115:GLN:NE2	2.41	0.54
5:ZW:112:ASP:OD1	5:ZW:115:GLN:NE2	2.39	0.54
5:Zh:128:ILE:O	5:Zh:132:LYS:HG2	2.08	0.54
5:Zp:128:ILE:O	5:Zp:132:LYS:HG2	2.08	0.54
5:aE:111:LYS:NZ	5:aH:74:LYS:HE3	2.23	0.54
5:aK:111:LYS:NZ	5:aN:74:LYS:HE3	2.23	0.54
5:aP:128:ILE:O	5:aP:132:LYS:HG2	2.08	0.54
5:aX:128:ILE:O	5:aX:132:LYS:HG2	2.08	0.54
5:bD:128:ILE:O	5:bD:132:LYS:HG2	2.08	0.54
5:bW:103:LEU:HD12	5:bW:113:ILE:HG23	1.89	0.54
5:bY:103:LEU:HD12	5:bY:113:ILE:HG23	1.88	0.54
5:bf:128:ILE:O	5:bf:132:LYS:HG2	2.08	0.54
5:bn:128:ILE:O	5:bn:132:LYS:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:cF:128:ILE:O	5:cF:132:LYS:HG2	2.08	0.54
5:dZ:128:ILE:O	5:dZ:132:LYS:HG2	2.08	0.54
5:eM:55:ILE:O	5:eM:59:ILE:HG12	2.08	0.54
5:ep:128:ILE:O	5:ep:132:LYS:HG2	2.08	0.54
5:er:128:ILE:O	5:er:132:LYS:HG2	2.08	0.54
5:es:111:LYS:NZ	5:fX:74:LYS:HE3	2.23	0.54
5:fP:74:LYS:HE3	5:fQ:111:LYS:NZ	2.23	0.54
5:fR:128:ILE:O	5:fR:132:LYS:HG2	2.08	0.54
5:fZ:128:ILE:O	5:fZ:132:LYS:HG2	2.08	0.54
5:fb:128:ILE:O	5:fb:132:LYS:HG2	2.08	0.54
5:fv:74:LYS:HE3	5:fw:111:LYS:NZ	2.22	0.54
5:fz:128:ILE:O	5:fz:132:LYS:HG2	2.08	0.54
5:gB:74:LYS:HE3	5:gC:111:LYS:NZ	2.22	0.54
1:AJ:54:ASN:OD1	2:Bk:47:ASN:ND2	2.31	0.54
1:Am:174:LYS:O	1:Am:212:LYS:NZ	2.41	0.54
1:As:41:MET:HG2	2:CM:104:PHE:HE2	1.72	0.54
1:BH:66:THR:HG22	2:CW:52:CYS:HB3	1.89	0.54
1:BZ:165:ILE:HD13	1:BZ:191:LEU:HD23	1.88	0.54
4:Cn:149:LEU:HD13	4:Cn:181:VAL:HG21	1.90	0.54
1:Ew:317:LYS:NZ	1:Ew:319:SER:OXT	2.40	0.54
1:FJ:296:TYR:HE2	1:FP:67:ILE:HG13	1.72	0.54
1:Fr:47:VAL:HG22	1:Fr:76:VAL:HG22	1.90	0.54
1:GH:205:VAL:HG12	1:GH:259:ILE:HG23	1.89	0.54
1:Jp:13:VAL:HA	1:Jp:16:ILE:HG22	1.90	0.54
1:Jy:143:LYS:HA	2:LX:39:ARG:HE	1.71	0.54
1:KL:307:THR:O	1:KL:310:THR:OG1	2.24	0.54
1:KR:317:LYS:NZ	1:KR:319:SER:OXT	2.33	0.54
1:LI:89:ARG:HH21	1:LI:112:LEU:HD21	1.72	0.54
2:MH:77:PHE:HD2	4:Ml:138:LYS:HE2	1.72	0.54
4:Mn:36:ASN:HD22	1:Pq:194:GLY:HA3	1.72	0.54
1:Ou:284:GLN:NE2	1:Ou:286:ASP:OD1	2.35	0.54
1:Ov:85:GLN:NE2	1:Ov:298:ASP:OD1	2.40	0.54
1:Ov:307:THR:HG22	2:QU:32:LEU:HB2	1.90	0.54
1:PK:174:LYS:O	1:PK:212:LYS:NZ	2.41	0.54
1:PQ:57:PRO:HG2	1:Ph:84:LEU:HD13	1.88	0.54
1:PX:13:VAL:HA	1:PX:16:ILE:HG22	1.89	0.54
1:Pv:194:GLY:HA3	4:RL:36:ASN:OD1	2.07	0.54
2:QA:137:LEU:HD11	2:QA:159:ALA:HB2	1.90	0.54
2:Qv:32:LEU:HD23	1:UJ:77:VAL:HG21	1.90	0.54
4:RJ:31:LEU:HD21	1:Tc:161:MET:SD	2.47	0.54
1:TW:194:GLY:HA3	4:Vx:36:ASN:ND2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UQ:26:TYR:O	5:Xa:218:TYR:OH	2.20	0.54
1:UQ:89:ARG:HH21	1:UQ:112:LEU:HD21	1.72	0.54
6:Xx:100:LEU:HD12	6:Xx:101:PRO:HD2	1.89	0.54
6:Xy:196:SER:HB3	6:Xy:198:VAL:HG22	1.88	0.54
6:YB:249:ASN:HD22	6:YC:255:GLU:HB3	1.73	0.54
6:YC:100:LEU:HD12	6:YC:101:PRO:HD2	1.89	0.54
6:YE:142:LYS:HA	6:YE:145:LEU:HD12	1.90	0.54
5:YP:62:GLU:O	5:YP:66:VAL:HG23	2.08	0.54
5:Yc:135:ALA:HB2	5:Yc:151:LEU:HD11	1.89	0.54
5:ZA:153:SER:HB2	5:ZB:133:ALA:HB1	1.88	0.54
5:Zn:128:ILE:O	5:Zn:132:LYS:HG2	2.08	0.54
5:Zu:103:LEU:HD12	5:Zu:113:ILE:HG23	1.87	0.54
5:Zx:74:LYS:HE3	5:aa:111:LYS:NZ	2.23	0.54
5:Zx:128:ILE:O	5:Zx:132:LYS:HG2	2.08	0.54
5:aI:111:LYS:NZ	5:aL:74:LYS:HE3	2.23	0.54
5:aV:128:ILE:O	5:aV:132:LYS:HG2	2.08	0.54
5:bl:128:ILE:O	5:bl:132:LYS:HG2	2.08	0.54
5:bp:128:ILE:O	5:bp:132:LYS:HG2	2.08	0.54
5:bs:111:LYS:NZ	5:bv:74:LYS:HE3	2.23	0.54
5:cQ:111:LYS:NZ	5:cT:74:LYS:HE3	2.23	0.54
5:cV:128:ILE:O	5:cV:132:LYS:HG2	2.08	0.54
5:cn:128:ILE:O	5:cn:132:LYS:HG2	2.08	0.54
5:cw:103:LEU:HD12	5:cw:113:ILE:HG23	1.88	0.54
5:dK:111:LYS:NZ	5:dN:74:LYS:HE3	2.23	0.54
5:dV:128:ILE:O	5:dV:132:LYS:HG2	2.08	0.54
5:da:111:LYS:NZ	5:dd:74:LYS:HE3	2.23	0.54
5:dn:128:ILE:O	5:dn:132:LYS:HG2	2.08	0.54
5:dq:111:LYS:NZ	5:dt:74:LYS:HE3	2.23	0.54
5:ds:112:ASP:OD1	5:ds:115:GLN:NE2	2.38	0.54
5:eR:128:ILE:O	5:eR:132:LYS:HG2	2.08	0.54
5:en:74:LYS:HE3	5:eo:111:LYS:NZ	2.23	0.54
5:et:74:LYS:HE3	5:eu:111:LYS:NZ	2.23	0.54
5:et:128:ILE:O	5:et:132:LYS:HG2	2.08	0.54
5:fd:74:LYS:HE3	5:fe:111:LYS:NZ	2.23	0.54
5:fx:74:LYS:HE3	5:fy:111:LYS:NZ	2.23	0.54
5:fz:74:LYS:HE3	5:gA:111:LYS:NZ	2.23	0.54
1:AK:244:ARG:NH1	1:AO:210:SER:OG	2.40	0.54
1:AS:140:SER:HB2	1:AS:148:GLN:HG2	1.88	0.54
1:AU:296:TYR:HE2	1:Aa:67:ILE:HG13	1.72	0.54
1:AV:164:GLN:HE22	1:AV:308:ARG:HA	1.72	0.54
1:Ac:85:GLN:NE2	1:Ac:298:ASP:OD1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ar:174:LYS:O	1:Ar:212:LYS:NZ	2.41	0.54
1:BJ:196:GLU:HB3	1:BJ:265:ASN:HD22	1.73	0.54
1:BL:49:TRP:CZ3	1:BL:74:SER:HB3	2.43	0.54
2:Bt:125:LYS:NZ	2:Bt:169:ASP:OD1	2.36	0.54
2:Bv:56:LYS:HD2	4:Cq:56:PHE:HD1	1.73	0.54
3:Cj:102:THR:HG21	4:Cu:56:PHE:HA	1.90	0.54
1:FA:13:VAL:HA	1:FA:16:ILE:HG22	1.90	0.54
1:FK:164:GLN:HE22	1:FK:308:ARG:HA	1.72	0.54
1:Fg:305:LEU:HD21	2:Lh:32:LEU:HD21	1.90	0.54
1:GA:89:ARG:HH21	1:GA:112:LEU:HD21	1.73	0.54
1:GH:55:ALA:HA	1:GO:141:ILE:HD13	1.90	0.54
1:GL:194:GLY:HA3	2:HT:36:ILE:HG21	1.89	0.54
1:GS:59:THR:O	4:Hy:61:ASN:ND2	2.40	0.54
1:GT:89:ARG:HH21	1:GT:112:LEU:HD21	1.73	0.54
1:GT:161:MET:SD	2:HU:31:LEU:HD21	2.48	0.54
2:HM:22:MET:HG3	2:HM:26:GLN:HE22	1.72	0.54
4:Ha:69:TYR:HB2	4:Ha:108:ILE:HD12	1.89	0.54
4:Hs:23:LYS:N	4:Hs:67:TYR:OH	2.41	0.54
4:Hw:161:ILE:HA	4:Hw:186:ASN:HA	1.90	0.54
1:KL:165:ILE:HD13	1:KL:191:LEU:HD23	1.89	0.54
1:Ke:165:ILE:HD13	1:Ke:191:LEU:HD23	1.90	0.54
1:Kt:49:TRP:CZ3	1:Kt:74:SER:HB3	2.42	0.54
4:Mk:107:ASP:OD1	1:PU:62:ASN:ND2	2.40	0.54
1:Pf:164:GLN:HE22	1:Pf:308:ARG:HA	1.71	0.54
2:QQ:76:SER:HB3	2:QQ:87:GLU:HG2	1.89	0.54
4:RG:149:LEU:HD13	4:RG:181:VAL:HG21	1.90	0.54
4:RP:93:VAL:HG21	4:RP:117:ILE:HD11	1.89	0.54
4:RQ:93:VAL:HG21	4:RQ:117:ILE:HD11	1.88	0.54
4:Rc:36:ASN:HD22	1:Uf:194:GLY:HA3	1.72	0.54
4:Rc:69:TYR:HB2	4:Rc:108:ILE:HD12	1.89	0.54
1:UW:107:ASP:OD2	1:UW:110:ASN:ND2	2.31	0.54
1:Ua:205:VAL:HG12	1:Ua:259:ILE:HG23	1.89	0.54
2:Vq:69:TYR:HB2	2:Vq:101:ILE:HD12	1.90	0.54
4:WA:161:ILE:HA	4:WA:186:ASN:HA	1.89	0.54
4:WL:23:LYS:N	4:WL:67:TYR:OH	2.41	0.54
5:YR:80:ALA:HB2	5:YU:77:LEU:HA	1.89	0.54
5:ag:55:ILE:O	5:ag:59:ILE:HG12	2.07	0.54
5:ap:128:ILE:O	5:ap:132:LYS:HG2	2.08	0.54
5:as:55:ILE:O	5:as:59:ILE:HG12	2.08	0.54
5:bb:128:ILE:O	5:bb:132:LYS:HG2	2.08	0.54
5:bg:103:LEU:HD12	5:bg:113:ILE:HG23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bj:128:ILE:O	5:bj:132:LYS:HG2	2.08	0.54
5:cU:111:LYS:NZ	5:cX:74:LYS:HE3	2.23	0.54
5:ch:128:ILE:O	5:ch:132:LYS:HG2	2.08	0.54
5:ci:103:LEU:HD12	5:ci:113:ILE:HG23	1.88	0.54
5:cp:128:ILE:O	5:cp:132:LYS:HG2	2.08	0.54
5:db:128:ILE:O	5:db:132:LYS:HG2	2.08	0.54
5:dc:111:LYS:NZ	5:df:74:LYS:HE3	2.23	0.54
5:dg:56:ASN:HB2	5:eO:146:GLU:H	1.72	0.54
5:eI:111:LYS:NZ	5:eL:74:LYS:HE3	2.23	0.54
5:eL:128:ILE:O	5:eL:132:LYS:HG2	2.08	0.54
5:eM:111:LYS:NZ	5:er:74:LYS:HE3	2.23	0.54
5:eb:128:ILE:O	5:eb:132:LYS:HG2	2.08	0.54
5:ed:128:ILE:O	5:ed:132:LYS:HG2	2.08	0.54
5:ej:128:ILE:O	5:ej:132:LYS:HG2	2.08	0.54
5:ep:74:LYS:HE3	5:eq:111:LYS:NZ	2.23	0.54
5:fJ:128:ILE:O	5:fJ:132:LYS:HG2	2.08	0.54
5:fj:128:ILE:O	5:fj:132:LYS:HG2	2.08	0.54
5:fn:74:LYS:HE3	5:fo:111:LYS:NZ	2.23	0.54
5:fp:74:LYS:HE3	5:fq:111:LYS:NZ	2.22	0.54
5:ft:74:LYS:HE3	5:fu:111:LYS:NZ	2.23	0.54
5:fv:128:ILE:O	5:fv:132:LYS:HG2	2.08	0.54
1:AA:20:VAL:O	5:DK:213:ARG:NH2	2.41	0.54
1:AF:150:ARG:HH12	4:Ck:92:HIS:CD2	2.25	0.54
1:AO:194:GLY:HA3	4:Cp:36:ASN:ND2	2.23	0.54
1:AY:80:ASN:ND2	1:AY:153:PRO:O	2.39	0.54
1:Ae:261:ILE:HD12	1:Ae:312:LEU:HD23	1.90	0.54
1:At:86:TYR:OH	1:Fl:55:ALA:O	2.23	0.54
1:BR:55:ALA:O	1:BU:86:TYR:OH	2.19	0.54
1:FN:84:LEU:HD13	1:FO:57:PRO:HB2	1.89	0.54
1:FY:86:TYR:OH	1:Fb:55:ALA:O	2.22	0.54
1:GH:57:PRO:HA	1:GO:86:TYR:HE1	1.73	0.54
1:GI:307:THR:HG22	2:HV:32:LEU:HB2	1.89	0.54
4:Hn:46:PHE:CE1	1:KM:73:SER:HB3	2.43	0.54
1:Kv:52:PHE:HB3	4:Ml:41:LYS:HE2	1.89	0.54
2:La:77:PHE:HD2	4:MV:138:LYS:HG3	1.73	0.54
1:Oh:194:GLY:HA3	4:RI:36:ASN:ND2	2.23	0.54
1:PT:174:LYS:O	1:PT:212:LYS:NZ	2.41	0.54
1:Pm:307:THR:HG22	2:Qz:32:LEU:HB2	1.89	0.54
1:Pq:286:ASP:HB2	1:Pq:294:HIS:HB2	1.89	0.54
1:Px:161:MET:SD	2:Qy:31:LEU:HD21	2.48	0.54
1:Px:164:GLN:HE22	1:Px:308:ARG:HA	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QV:22:MET:HE3	2:QV:25:PRO:HB3	1.90	0.54
2:Qu:77:PHE:HD2	4:RZ:138:LYS:HG3	1.73	0.54
4:RD:93:VAL:HG21	4:RD:117:ILE:HD11	1.90	0.54
1:Tu:174:LYS:O	1:Tu:212:LYS:NZ	2.41	0.54
1:Uh:165:ILE:HD13	1:Uh:191:LEU:HD23	1.88	0.54
1:Um:89:ARG:HH21	1:Um:112:LEU:HD21	1.72	0.54
1:Um:164:GLN:HE22	1:Um:308:ARG:HA	1.71	0.54
2:Vj:77:PHE:HD2	4:WO:138:LYS:HG3	1.73	0.54
2:Vn:77:PHE:HD2	4:WQ:138:LYS:HG3	1.71	0.54
4:Vt:77:ILE:HG12	4:Vt:91:PRO:HB3	1.89	0.54
6:YE:199:GLN:HA	6:YE:202:ASP:HB3	1.89	0.54
5:Yi:112:ASP:OD1	5:Yi:115:GLN:NE2	2.40	0.54
5:Ym:112:ASP:OD1	5:Ym:115:GLN:NE2	2.41	0.54
5:Ym:130:GLN:HE22	5:Yn:157:VAL:HG11	1.73	0.54
5:Yt:94:LEU:HD21	5:Yt:121:LEU:HD23	1.89	0.54
5:ZE:112:ASP:OD1	5:ZE:115:GLN:NE2	2.41	0.54
5:ZK:153:SER:HB2	5:ZL:133:ALA:HB1	1.89	0.54
5:ZP:94:LEU:HD21	5:ZP:121:LEU:HD23	1.89	0.54
5:Ze:103:LEU:HD12	5:Ze:113:ILE:HG23	1.89	0.54
5:Zf:128:ILE:O	5:Zf:132:LYS:HG2	2.08	0.54
5:Zm:111:LYS:NZ	5:Zp:74:LYS:HE3	2.22	0.54
5:Zv:128:ILE:O	5:Zv:132:LYS:HG2	2.08	0.54
5:aC:111:LYS:NZ	5:aF:74:LYS:HE3	2.23	0.54
5:aW:111:LYS:NZ	5:aZ:74:LYS:HE3	2.23	0.54
5:aa:112:ASP:OD1	5:aa:115:GLN:NE2	2.38	0.54
5:ag:111:LYS:NZ	5:aj:74:LYS:HE3	2.23	0.54
5:az:128:ILE:O	5:az:132:LYS:HG2	2.08	0.54
5:bH:128:ILE:O	5:bH:132:LYS:HG2	2.08	0.54
5:bX:128:ILE:O	5:bX:132:LYS:HG2	2.08	0.54
5:bq:111:LYS:NZ	5:bt:74:LYS:HE3	2.23	0.54
5:bu:103:LEU:HD12	5:bu:113:ILE:HG23	1.88	0.54
5:cT:128:ILE:O	5:cT:132:LYS:HG2	2.08	0.54
5:cV:74:LYS:HE3	5:cy:111:LYS:NZ	2.23	0.54
5:cf:128:ILE:O	5:cf:132:LYS:HG2	2.08	0.54
5:ct:128:ILE:O	5:ct:132:LYS:HG2	2.08	0.54
5:cu:111:LYS:NZ	5:cx:74:LYS:HE3	2.23	0.54
5:dP:128:ILE:O	5:dP:132:LYS:HG2	2.08	0.54
5:dT:128:ILE:O	5:dT:132:LYS:HG2	2.08	0.54
5:eD:128:ILE:O	5:eD:132:LYS:HG2	2.08	0.54
5:ec:112:ASP:OD1	5:ec:115:GLN:NE2	2.40	0.54
5:ej:74:LYS:HE3	5:ek:111:LYS:NZ	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fB:74:LYS:HE3	5:fC:111:LYS:NZ	2.23	0.54
5:ff:74:LYS:HE3	5:fg:111:LYS:NZ	2.23	0.54
1:AB:165:ILE:HD13	1:AB:191:LEU:HD23	1.89	0.54
1:AC:55:ALA:O	1:AE:86:TYR:OH	2.20	0.54
1:AD:49:TRP:CZ3	1:AD:74:SER:HB3	2.43	0.54
1:BS:55:ALA:HA	1:BZ:141:ILE:HD13	1.90	0.54
1:BT:13:VAL:HA	1:BT:16:ILE:HG22	1.89	0.54
2:CC:22:MET:HE3	2:CC:25:PRO:HB3	1.90	0.54
4:Cl:69:TYR:HB2	4:Cl:108:ILE:HD12	1.89	0.54
1:FD:194:GLY:HA3	4:He:36:ASN:ND2	2.23	0.54
1:FT:261:ILE:HD12	1:FT:312:LEU:HD23	1.90	0.54
1:Fd:49:TRP:CZ3	1:Fd:74:SER:HB3	2.43	0.54
1:Fp:174:LYS:O	1:Fp:212:LYS:NZ	2.41	0.54
2:HS:77:PHE:HD2	4:Hw:138:LYS:HE2	1.73	0.54
4:Hd:77:ILE:HG12	4:Hd:91:PRO:HB3	1.90	0.54
1:Ke:84:LEU:HB3	1:Kn:57:PRO:HB2	1.89	0.54
1:Ke:152:LEU:HD21	2:Lw:105:SER:HA	1.89	0.54
1:Ki:257:HIS:CE1	1:Ki:318:GLN:HG3	2.42	0.54
1:LE:212:LYS:HA	1:LE:215:LYS:HE3	1.90	0.54
2:Lt:133:PRO:HG3	2:Lt:161:SER:HA	1.89	0.54
2:ME:165:LYS:HE3	2:ME:168:GLU:HA	1.89	0.54
4:Mf:161:ILE:HA	4:Mf:186:ASN:HA	1.88	0.54
4:Mj:69:TYR:HB2	4:Mj:108:ILE:HD12	1.90	0.54
1:PH:49:TRP:CZ3	1:PH:74:SER:HB3	2.43	0.54
1:Pn:77:VAL:HG21	2:Qo:32:LEU:HD23	1.89	0.54
1:Px:89:ARG:HH21	1:Px:112:LEU:HD21	1.73	0.54
2:RB:69:TYR:HB2	2:RB:101:ILE:HD12	1.90	0.54
4:RG:93:VAL:HG21	4:RG:117:ILE:HD11	1.90	0.54
1:Tf:100:THR:HG22	1:Tf:105:ILE:HG23	1.90	0.54
1:UR:196:GLU:HB3	1:UR:265:ASN:HD22	1.73	0.54
1:UT:49:TRP:CZ3	1:UT:74:SER:HB3	2.43	0.54
2:Ur:137:LEU:HD11	2:Ur:159:ALA:HB2	1.89	0.54
2:VX:133:PRO:HG3	2:VX:161:SER:HA	1.89	0.54
5:YQ:134:ILE:CD1	5:YT:150:GLN:HA	2.38	0.54
5:YZ:58:ARG:HG2	5:ZO:108:TYR:OH	2.08	0.54
5:Yf:94:LEU:HD23	5:Yf:124:LYS:HD2	1.89	0.54
5:Yq:112:ASP:OD1	5:Yq:115:GLN:NE2	2.40	0.54
5:ZC:126:VAL:HG22	5:ZC:154:LEU:HG	1.90	0.54
5:ZM:112:ASP:OD1	5:ZM:115:GLN:NE2	2.41	0.54
5:ZR:128:ILE:O	5:ZR:132:LYS:HG2	2.08	0.54
5:Zi:111:LYS:NZ	5:Zl:74:LYS:HE3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Zr:128:ILE:O	5:Zr:132:LYS:HG2	2.08	0.54
5:Zz:128:ILE:O	5:Zz:132:LYS:HG2	2.08	0.54
5:ad:74:LYS:HE3	5:bG:111:LYS:NZ	2.23	0.54
5:as:103:LEU:HD12	5:as:113:ILE:HG23	1.89	0.54
5:bI:111:LYS:NZ	5:bL:74:LYS:HE3	2.23	0.54
5:bK:111:LYS:NZ	5:bN:74:LYS:HE3	2.23	0.54
5:bV:128:ILE:O	5:bV:132:LYS:HG2	2.08	0.54
5:bZ:128:ILE:O	5:bZ:132:LYS:HG2	2.08	0.54
5:bk:111:LYS:NZ	5:bn:74:LYS:HE3	2.23	0.54
5:bp:74:LYS:HE3	5:cS:111:LYS:NZ	2.23	0.54
5:cA:111:LYS:NZ	5:cD:74:LYS:HE3	2.23	0.54
5:cH:128:ILE:O	5:cH:132:LYS:HG2	2.08	0.54
5:ca:111:LYS:NZ	5:cd:74:LYS:HE3	2.23	0.54
5:cg:103:LEU:HD12	5:cg:113:ILE:HG23	1.89	0.54
5:co:111:LYS:NZ	5:cr:74:LYS:HE3	2.23	0.54
5:dB:74:LYS:HE3	5:de:111:LYS:NZ	2.23	0.54
5:dD:128:ILE:O	5:dD:132:LYS:HG2	2.08	0.54
5:dF:128:ILE:O	5:dF:132:LYS:HG2	2.08	0.54
5:dM:111:LYS:NZ	5:dP:74:LYS:HE3	2.23	0.54
5:dO:111:LYS:NZ	5:dR:74:LYS:HE3	2.23	0.54
5:dR:128:ILE:O	5:dR:132:LYS:HG2	2.08	0.54
5:dd:128:ILE:O	5:dd:132:LYS:HG2	2.08	0.54
5:dv:128:ILE:O	5:dv:132:LYS:HG2	2.08	0.54
5:dz:128:ILE:O	5:dz:132:LYS:HG2	2.08	0.54
5:eF:128:ILE:O	5:eF:132:LYS:HG2	2.08	0.54
5:eT:128:ILE:O	5:eT:132:LYS:HG2	2.08	0.54
5:eX:74:LYS:HE3	5:eY:111:LYS:NZ	2.23	0.54
5:eh:128:ILE:O	5:eh:132:LYS:HG2	2.08	0.54
5:ei:112:ASP:OD1	5:ei:115:GLN:NE2	2.38	0.54
5:el:74:LYS:HE3	5:em:111:LYS:NZ	2.23	0.54
5:ev:74:LYS:HE3	5:ew:111:LYS:NZ	2.23	0.54
5:fN:74:LYS:HE3	5:fO:111:LYS:NZ	2.23	0.54
5:fZ:74:LYS:HE3	5:fa:111:LYS:NZ	2.23	0.54
1:AY:84:LEU:HD13	1:AZ:57:PRO:HB2	1.89	0.54
1:BU:66:THR:HG22	2:CV:52:CYS:HB3	1.89	0.54
4:Ck:93:VAL:HG21	4:Ck:117:ILE:HD11	1.90	0.54
4:Cl:77:ILE:HG12	4:Cl:91:PRO:HB3	1.88	0.54
4:Cy:46:PHE:CE1	1:FX:73:SER:HB3	2.43	0.54
1:Fi:164:GLN:HE22	1:Fi:308:ARG:HA	1.73	0.54
1:Fx:244:ARG:NH2	1:Kp:231:GLU:OE2	2.34	0.54
1:GA:164:GLN:HE22	1:GA:308:ARG:HA	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gy:137:LEU:HD11	2:Gy:159:ALA:HB2	1.89	0.54
4:Hw:77:ILE:HG13	4:Hw:91:PRO:HB3	1.89	0.54
1:Js:194:GLY:HA3	4:MT:36:ASN:ND2	2.23	0.54
1:Kc:86:TYR:OH	1:Kd:55:ALA:O	2.23	0.54
1:Ke:78:ARG:O	1:Ke:154:ASN:ND2	2.31	0.54
4:Ml:161:ILE:HA	4:Ml:186:ASN:HA	1.90	0.54
1:OU:165:ILE:HD13	1:OU:191:LEU:HD23	1.89	0.54
1:OY:150:ARG:HH12	4:RD:92:HIS:CD2	2.25	0.54
1:Om:66:THR:HG22	2:QI:52:CYS:HB3	1.90	0.54
1:PD:256:LYS:HG2	1:PD:257:HIS:CD2	2.42	0.54
1:PT:165:ILE:HD13	1:PT:191:LEU:HD23	1.89	0.54
1:Pb:89:ARG:HH21	1:Pb:112:LEU:HD21	1.72	0.54
1:Pe:89:ARG:HH21	1:Pe:112:LEU:HD21	1.72	0.54
1:Pn:261:ILE:HD12	1:Pn:312:LEU:HD23	1.90	0.54
1:Pv:26:TYR:O	5:TF:218:TYR:OH	2.25	0.54
2:Qe:65:LYS:HB2	2:Qe:85:GLU:HG3	1.90	0.54
2:RA:77:PHE:HD2	4:Rc:138:LYS:HE2	1.73	0.54
1:Tp:165:ILE:HD13	1:Tp:191:LEU:HD23	1.89	0.54
1:Tu:86:TYR:OH	1:Tx:55:ALA:O	2.21	0.54
1:Tz:174:LYS:O	1:Tz:212:LYS:NZ	2.41	0.54
1:UO:49:TRP:CZ3	1:UO:74:SER:HB3	2.42	0.54
1:UV:143:LYS:HA	2:VY:39:ARG:HE	1.73	0.54
1:Uf:286:ASP:HB2	1:Uf:294:HIS:HB2	1.89	0.54
5:ZL:81:GLU:HA	5:ZM:83:ILE:HG21	1.89	0.54
5:Zt:128:ILE:O	5:Zt:132:LYS:HG2	2.08	0.54
5:Zy:111:LYS:NZ	5:aB:74:LYS:HE3	2.23	0.54
5:aA:111:LYS:NZ	5:aD:74:LYS:HE3	2.23	0.54
5:aH:128:ILE:O	5:aH:132:LYS:HG2	2.08	0.54
5:af:128:ILE:O	5:af:132:LYS:HG2	2.08	0.54
5:ah:128:ILE:O	5:ah:132:LYS:HG2	2.08	0.54
5:ai:111:LYS:NZ	5:al:74:LYS:HE3	2.23	0.54
5:bB:128:ILE:O	5:bB:132:LYS:HG2	2.08	0.54
5:bE:111:LYS:NZ	5:bH:74:LYS:HE3	2.23	0.54
5:bP:128:ILE:O	5:bP:132:LYS:HG2	2.08	0.54
5:bc:103:LEU:HD12	5:bc:113:ILE:HG23	1.89	0.54
5:cL:128:ILE:O	5:cL:132:LYS:HG2	2.08	0.54
5:cU:103:LEU:HD12	5:cU:113:ILE:HG23	1.89	0.54
5:cy:103:LEU:HD12	5:cy:113:ILE:HG23	1.88	0.54
5:dC:111:LYS:NZ	5:dF:74:LYS:HE3	2.23	0.54
5:dY:111:LYS:NZ	5:db:74:LYS:HE3	2.23	0.54
5:do:111:LYS:NZ	5:dr:74:LYS:HE3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eB:128:ILE:O	5:eB:132:LYS:HG2	2.08	0.54
5:eG:111:LYS:NZ	5:eJ:74:LYS:HE3	2.23	0.54
5:eJ:128:ILE:O	5:eJ:132:LYS:HG2	2.08	0.54
5:eh:74:LYS:HE3	5:ei:111:LYS:NZ	2.23	0.54
5:fH:128:ILE:O	5:fH:132:LYS:HG2	2.08	0.54
5:fL:74:LYS:HE3	5:fM:111:LYS:NZ	2.23	0.54
5:fU:98:PHE:HB3	5:fU:117:GLN:HE22	1.72	0.54
5:fY:111:LYS:NZ	5:gD:74:LYS:HE3	2.23	0.54
5:fp:128:ILE:O	5:fp:132:LYS:HG2	2.08	0.54
5:fr:74:LYS:HE3	5:fs:111:LYS:NZ	2.23	0.54
5:gB:128:ILE:O	5:gB:132:LYS:HG2	2.08	0.54
5:gD:128:ILE:O	5:gD:132:LYS:HG2	2.08	0.54
1:AK:57:PRO:HB2	1:AO:84:LEU:HD13	1.89	0.53
1:Ah:165:ILE:HD13	1:Ah:191:LEU:HD23	1.89	0.53
1:Ai:73:SER:HB3	4:WG:46:PHE:CE1	2.43	0.53
1:BB:65:ASN:ND2	4:WO:57:ASP:O	2.41	0.53
1:BC:86:TYR:OH	1:UY:55:ALA:O	2.19	0.53
1:BK:87:LYS:NZ	2:CZ:53:THR:O	2.28	0.53
1:Ba:212:LYS:HA	1:Ba:215:LYS:HE3	1.90	0.53
1:Be:161:MET:SD	2:Cf:31:LEU:HD21	2.48	0.53
2:CN:23:LYS:N	2:CN:67:TYR:OH	2.41	0.53
4:DD:23:LYS:N	4:DD:67:TYR:OH	2.41	0.53
1:Eu:107:ASP:OD2	1:Eu:110:ASN:ND2	2.32	0.53
1:FZ:55:ALA:O	1:Fd:86:TYR:OH	2.25	0.53
1:GP:196:GLU:HB3	1:GP:265:ASN:HD22	1.74	0.53
4:Hc:149:LEU:HD13	4:Hc:181:VAL:HG21	1.90	0.53
4:Hl:93:VAL:HG21	4:Hl:117:ILE:HD11	1.89	0.53
1:Jo:226:SER:OG	1:Jz:226:SER:O	2.25	0.53
1:KQ:174:LYS:O	1:KQ:212:LYS:NZ	2.41	0.53
1:KX:66:THR:HG22	4:Mb:52:ARG:HB3	1.90	0.53
1:Ku:86:TYR:OH	1:LE:55:ALA:O	2.24	0.53
2:Lv:180:ASN:O	2:Lw:180:ASN:ND2	2.33	0.53
4:MP:69:TYR:HB2	4:MP:108:ILE:HD12	1.89	0.53
4:MU:52:ARG:HB3	1:On:66:THR:HG22	1.90	0.53
4:Ma:93:VAL:HG21	4:Ma:117:ILE:HD11	1.89	0.53
4:Mn:69:TYR:HB2	4:Mn:108:ILE:HD12	1.89	0.53
1:OW:49:TRP:CZ3	1:OW:74:SER:HB3	2.43	0.53
1:On:143:LYS:HA	2:QM:39:ARG:HE	1.71	0.53
1:Or:80:ASN:ND2	1:Or:153:PRO:O	2.39	0.53
1:PF:92:LYS:NZ	1:PF:94:THR:OG1	2.41	0.53
1:PN:55:ALA:O	1:UF:86:TYR:OH	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pa:66:THR:HG22	2:Qp:52:CYS:HB3	1.89	0.53
1:Pg:143:LYS:HA	2:Qj:39:ARG:HE	1.74	0.53
1:Pl:205:VAL:HG12	1:Pl:259:ILE:HG23	1.89	0.53
1:Pm:13:VAL:HA	1:Pm:16:ILE:HG22	1.89	0.53
1:Pn:66:THR:HG22	2:Qo:52:CYS:HB3	1.90	0.53
1:Pt:196:GLU:HB3	1:Pt:265:ASN:HD22	1.74	0.53
1:Pw:161:MET:SD	2:RB:31:LEU:HD21	2.48	0.53
1:Td:164:GLN:HE22	1:Td:308:ARG:HA	1.72	0.53
1:Tg:84:LEU:HD13	1:Th:57:PRO:HB2	1.89	0.53
1:Tg:86:TYR:OH	1:Th:55:ALA:O	2.20	0.53
1:Ti:149:LYS:HZ1	1:Ug:59:THR:HG1	1.54	0.53
1:Tw:49:TRP:CZ3	1:Tw:74:SER:HB3	2.43	0.53
1:UK:47:VAL:HG22	1:UK:76:VAL:HG22	1.89	0.53
1:Ug:77:VAL:HG21	2:VG:32:LEU:HD23	1.89	0.53
2:VT:65:LYS:HB2	2:VT:85:GLU:HG3	1.90	0.53
4:WK:69:TYR:HB2	4:WK:108:ILE:HD12	1.89	0.53
6:Xz:100:LEU:HD12	6:Xz:101:PRO:HD2	1.89	0.53
5:YQ:82:ARG:O	5:YQ:86:ILE:HG12	2.08	0.53
5:YS:103:LEU:HD12	5:YS:113:ILE:HG23	1.91	0.53
5:YU:146:GLU:O	5:YU:150:GLN:HG3	2.07	0.53
5:Yd:125:PHE:HB3	5:Yd:158:ASN:HB3	1.89	0.53
5:ZE:153:SER:HB2	5:ZF:133:ALA:HB1	1.90	0.53
5:aJ:128:ILE:O	5:aJ:132:LYS:HG2	2.08	0.53
5:aN:128:ILE:O	5:aN:132:LYS:HG2	2.08	0.53
5:aQ:111:LYS:NZ	5:aT:74:LYS:HE3	2.23	0.53
5:ak:103:LEU:HD12	5:ak:113:ILE:HG23	1.89	0.53
5:ar:128:ILE:O	5:ar:132:LYS:HG2	2.08	0.53
5:au:111:LYS:NZ	5:ax:74:LYS:HE3	2.23	0.53
5:bA:62:GLU:OE1	5:bg:97:HIS:NE2	2.41	0.53
5:bJ:74:LYS:HE3	5:bm:111:LYS:NZ	2.23	0.53
5:bu:111:LYS:NZ	5:bx:74:LYS:HE3	2.23	0.53
5:bw:111:LYS:NZ	5:bz:74:LYS:HE3	2.23	0.53
5:bx:128:ILE:O	5:bx:132:LYS:HG2	2.08	0.53
5:cW:111:LYS:NZ	5:cZ:74:LYS:HE3	2.23	0.53
5:cX:128:ILE:O	5:cX:132:LYS:HG2	2.08	0.53
5:ce:111:LYS:NZ	5:ch:74:LYS:HE3	2.23	0.53
5:cw:111:LYS:NZ	5:cz:74:LYS:HE3	2.23	0.53
5:dG:111:LYS:NZ	5:dJ:74:LYS:HE3	2.23	0.53
5:dQ:111:LYS:NZ	5:dT:74:LYS:HE3	2.23	0.53
5:dk:55:ILE:O	5:dk:59:ILE:HG12	2.07	0.53
5:dm:111:LYS:NZ	5:dp:74:LYS:HE3	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dy:111:LYS:NZ	5:eB:74:LYS:HE3	2.23	0.53
5:eA:55:ILE:O	5:eA:59:ILE:HG12	2.08	0.53
5:eN:74:LYS:HE3	5:eO:111:LYS:NZ	2.23	0.53
5:eP:74:LYS:HE3	5:eQ:111:LYS:NZ	2.23	0.53
5:fI:112:ASP:OD1	5:fI:115:GLN:NE2	2.39	0.53
5:fJ:74:LYS:HE3	5:fK:111:LYS:NZ	2.23	0.53
5:fL:128:ILE:O	5:fL:132:LYS:HG2	2.08	0.53
5:fP:128:ILE:O	5:fP:132:LYS:HG2	2.08	0.53
5:fV:128:ILE:O	5:fV:132:LYS:HG2	2.08	0.53
5:fb:74:LYS:HE3	5:fc:111:LYS:NZ	2.22	0.53
1:AU:57:PRO:HB2	1:Tf:84:LEU:HD13	1.89	0.53
1:Aa:259:ILE:HB	1:Aa:314:VAL:HB	1.90	0.53
1:Ap:43:TYR:HE1	1:Ap:45:LYS:HG3	1.74	0.53
1:BD:152:LEU:HD21	2:CT:105:SER:HA	1.90	0.53
1:BG:65:ASN:ND2	2:CT:57:ASP:O	2.42	0.53
2:Bh:137:LEU:HD11	2:Bh:159:ALA:HB2	1.90	0.53
2:Bq:137:LEU:HD11	2:Bq:159:ALA:HB2	1.91	0.53
1:Ep:20:VAL:O	5:Hz:213:ARG:NH2	2.41	0.53
1:Es:165:ILE:HD13	1:Es:191:LEU:HD23	1.90	0.53
1:FM:84:LEU:HD13	1:Jy:57:PRO:HB2	1.89	0.53
1:Fb:13:VAL:HG21	1:Fb:103:SER:HB2	1.90	0.53
1:Fb:174:LYS:O	1:Fb:212:LYS:NZ	2.41	0.53
1:Fd:286:ASP:HB2	1:Fd:294:HIS:HB2	1.91	0.53
1:Fg:174:LYS:O	1:Fg:212:LYS:NZ	2.41	0.53
1:Fv:65:ASN:ND2	2:HI:57:ASP:O	2.42	0.53
1:GS:161:MET:SD	2:HX:31:LEU:HD21	2.48	0.53
2:HA:65:LYS:HB2	2:HA:85:GLU:HG3	1.90	0.53
2:HU:165:LYS:HE3	2:HU:168:GLU:HA	1.91	0.53
2:HW:148:VAL:HG21	2:HW:155:VAL:HG12	1.89	0.53
4:Hu:69:TYR:HB2	4:Hu:108:ILE:HD12	1.90	0.53
1:KV:305:LEU:HD21	2:QW:32:LEU:HD21	1.90	0.53
1:Km:89:ARG:HH21	1:Km:112:LEU:HD21	1.72	0.53
1:Kx:196:GLU:OE1	1:Kx:265:ASN:ND2	2.41	0.53
1:Kz:152:LEU:HD21	4:Ml:112:SER:HA	1.89	0.53
1:Kz:286:ASP:HB2	1:Kz:294:HIS:HB2	1.90	0.53
2:LX:180:ASN:ND2	4:MT:186:ASN:O	2.38	0.53
4:Mg:69:TYR:HB2	4:Mg:108:ILE:HD12	1.89	0.53
1:Pd:272:LYS:N	1:Pd:303:GLY:O	2.38	0.53
2:Qp:69:TYR:HB2	2:Qp:101:ILE:HD12	1.91	0.53
4:Ra:161:ILE:HA	4:Ra:186:ASN:HA	1.90	0.53
1:TL:49:TRP:CZ3	1:TL:74:SER:HB3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TN:150:ARG:HH12	4:Vs:92:HIS:CD2	2.25	0.53
1:TT:55:ALA:O	1:Te:86:TYR:OH	2.21	0.53
1:Tm:261:ILE:HD12	1:Tm:312:LEU:HD23	1.90	0.53
1:UQ:152:LEU:HD21	4:WM:112:SER:HA	1.89	0.53
1:UT:164:GLN:HE22	1:UT:308:ARG:HA	1.73	0.53
1:Ua:92:LYS:NZ	1:Ua:94:THR:OG1	2.34	0.53
2:Ut:63:PRO:HB2	2:Ut:85:GLU:HG2	1.90	0.53
2:VS:140:ASN:OD1	2:VS:144:GLU:N	2.39	0.53
2:VV:23:LYS:N	2:VV:67:TYR:OH	2.41	0.53
4:WB:69:TYR:HB2	4:WB:108:ILE:HD12	1.90	0.53
5:Yf:122:VAL:HG11	5:Yf:151:LEU:HD13	1.90	0.53
5:ZH:128:ILE:O	5:ZH:132:LYS:HG2	2.08	0.53
5:ZT:128:ILE:O	5:ZT:132:LYS:HG2	2.08	0.53
5:ZX:128:ILE:O	5:ZX:132:LYS:HG2	2.08	0.53
5:Zj:128:ILE:O	5:Zj:132:LYS:HG2	2.08	0.53
5:Zm:55:ILE:O	5:Zm:59:ILE:HG12	2.08	0.53
5:aF:128:ILE:O	5:aF:132:LYS:HG2	2.08	0.53
5:aR:128:ILE:O	5:aR:132:LYS:HG2	2.08	0.53
5:aZ:128:ILE:O	5:aZ:132:LYS:HG2	2.08	0.53
5:ab:128:ILE:O	5:ab:132:LYS:HG2	2.08	0.53
5:ad:128:ILE:O	5:ad:132:LYS:HG2	2.08	0.53
5:aq:111:LYS:NZ	5:at:74:LYS:HE3	2.24	0.53
5:av:128:ILE:O	5:av:132:LYS:HG2	2.08	0.53
5:bC:112:ASP:OD1	5:bC:115:GLN:NE2	2.38	0.53
5:bI:111:LYS:HZ2	5:bL:74:LYS:HE3	1.74	0.53
5:bv:128:ILE:O	5:bv:132:LYS:HG2	2.08	0.53
5:cY:103:LEU:HD12	5:cY:113:ILE:HG23	1.90	0.53
5:cr:128:ILE:O	5:cr:132:LYS:HG2	2.08	0.53
5:cs:111:LYS:NZ	5:cv:74:LYS:HE3	2.23	0.53
5:dU:111:LYS:NZ	5:dX:74:LYS:HE3	2.23	0.53
5:dh:128:ILE:O	5:dh:132:LYS:HG2	2.08	0.53
5:dx:128:ILE:O	5:dx:132:LYS:HG2	2.08	0.53
5:eI:55:ILE:O	5:eI:59:ILE:HG12	2.08	0.53
5:eR:74:LYS:HE3	5:eS:111:LYS:NZ	2.23	0.53
5:eZ:128:ILE:O	5:eZ:132:LYS:HG2	2.08	0.53
5:eg:112:ASP:OD1	5:eg:115:GLN:NE2	2.39	0.53
5:ek:55:ILE:O	5:ek:59:ILE:HG12	2.08	0.53
5:el:128:ILE:O	5:el:132:LYS:HG2	2.08	0.53
5:ez:74:LYS:HE3	5:fA:111:LYS:NZ	2.23	0.53
5:fB:128:ILE:O	5:fB:132:LYS:HG2	2.08	0.53
5:fh:74:LYS:HE3	5:fi:111:LYS:NZ	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fj:74:LYS:HE3	5:fk:111:LYS:NZ	2.22	0.53
1:Ab:81:TYR:OH	1:Ab:272:LYS:O	2.18	0.53
1:Ak:55:ALA:O	1:Ao:86:TYR:OH	2.25	0.53
1:Ax:92:LYS:NZ	1:Ax:94:THR:OG1	2.42	0.53
1:BG:152:LEU:HD21	4:DD:112:SER:HA	1.91	0.53
1:BY:77:VAL:HG21	2:By:32:LEU:HD23	1.89	0.53
4:DH:161:ILE:HA	4:DH:186:ASN:HA	1.90	0.53
1:Ew:261:ILE:HD12	1:Ew:312:LEU:HD23	1.89	0.53
1:FP:259:ILE:HB	1:FP:314:VAL:HB	1.90	0.53
1:Fp:152:LEU:HD21	2:HH:105:SER:HA	1.89	0.53
1:Fq:79:LEU:HD11	1:Fq:305:LEU:HB2	1.90	0.53
1:GJ:66:THR:HG22	2:HK:52:CYS:HB3	1.90	0.53
2:Ga:63:PRO:HB2	2:Ga:85:GLU:HG2	1.90	0.53
4:Hn:93:VAL:HG21	4:Hn:117:ILE:HD11	1.90	0.53
4:Hv:107:ASP:OD1	1:Kf:62:ASN:ND2	2.42	0.53
1:KB:100:THR:HG22	1:KB:105:ILE:HG23	1.90	0.53
1:KI:261:ILE:HD12	1:KI:312:LEU:HD23	1.90	0.53
1:Ke:174:LYS:O	1:Ke:212:LYS:NZ	2.41	0.53
1:Kn:196:GLU:HB3	1:Kn:265:ASN:HD22	1.73	0.53
1:Kx:140:SER:HB2	1:Kx:148:GLN:HG2	1.91	0.53
1:LH:161:MET:SD	2:MM:31:LEU:HD21	2.48	0.53
2:Li:22:MET:HB2	2:Li:25:PRO:HG3	1.91	0.53
2:Ln:137:LEU:HD11	2:Ln:159:ALA:HB2	1.89	0.53
1:Oe:13:VAL:HA	1:Oe:16:ILE:HG22	1.90	0.53
1:PZ:49:TRP:CZ3	1:PZ:74:SER:HB3	2.42	0.53
1:Pe:164:GLN:HE22	1:Pe:308:ARG:HA	1.72	0.53
1:Pg:26:TYR:O	5:Sq:218:TYR:OH	2.25	0.53
1:Pi:135:LEU:HD21	1:Pi:255:LEU:HG	1.90	0.53
2:Qq:22:MET:HG3	2:Qq:26:GLN:HE22	1.72	0.53
4:RE:69:TYR:HB2	4:RE:108:ILE:HD12	1.89	0.53
4:RL:161:ILE:HA	4:RL:186:ASN:HA	1.89	0.53
1:TO:66:THR:HG22	2:Uq:52:CYS:SG	2.48	0.53
1:TP:317:LYS:NZ	1:TP:319:SER:OXT	2.40	0.53
1:TS:244:ARG:NH1	1:TW:210:SER:OG	2.40	0.53
1:Tj:81:TYR:OH	1:Tj:272:LYS:O	2.18	0.53
1:Tt:143:LYS:HE3	2:VM:40:ASP:HB2	1.88	0.53
1:UD:66:THR:HG22	2:VN:52:CYS:HB3	1.89	0.53
1:UM:13:VAL:HA	1:UM:16:ILE:HG22	1.89	0.53
1:Ub:196:GLU:OE1	1:Ub:265:ASN:ND2	2.41	0.53
2:Vn:165:LYS:HE3	2:Vn:168:GLU:HA	1.91	0.53
4:WH:149:LEU:HD13	4:WH:181:VAL:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YK:79:GLU:O	5:YK:83:ILE:HG12	2.09	0.53
5:Yi:118:ARG:CG	5:Yi:152:VAL:HG11	2.38	0.53
5:ZC:112:ASP:OD1	5:ZC:115:GLN:NE2	2.41	0.53
5:ZZ:128:ILE:O	5:ZZ:132:LYS:HG2	2.08	0.53
5:Zb:128:ILE:O	5:Zb:132:LYS:HG2	2.08	0.53
5:aQ:55:ILE:O	5:aQ:59:ILE:HG12	2.08	0.53
5:aY:111:LYS:NZ	5:ab:74:LYS:HE3	2.23	0.53
5:ai:103:LEU:HD12	5:ai:113:ILE:HG23	1.89	0.53
5:ak:111:LYS:NZ	5:an:74:LYS:HE3	2.24	0.53
5:ao:111:LYS:NZ	5:ar:74:LYS:HE3	2.23	0.53
5:bN:128:ILE:O	5:bN:132:LYS:HG2	2.08	0.53
5:bQ:111:LYS:NZ	5:bT:74:LYS:HE3	2.24	0.53
5:bU:111:LYS:NZ	5:bX:74:LYS:HE3	2.24	0.53
5:bW:111:LYS:NZ	5:bZ:74:LYS:HE3	2.23	0.53
5:cD:128:ILE:O	5:cD:132:LYS:HG2	2.08	0.53
5:cP:128:ILE:O	5:cP:132:LYS:HG2	2.08	0.53
5:cl:128:ILE:O	5:cl:132:LYS:HG2	2.08	0.53
5:cz:128:ILE:O	5:cz:132:LYS:HG2	2.08	0.53
5:dA:111:LYS:NZ	5:dD:74:LYS:HE3	2.23	0.53
5:dH:128:ILE:O	5:dH:132:LYS:HG2	2.08	0.53
5:dL:128:ILE:O	5:dL:132:LYS:HG2	2.08	0.53
5:dS:111:LYS:NZ	5:dV:74:LYS:HE3	2.23	0.53
5:dW:111:LYS:NZ	5:dZ:74:LYS:HE3	2.23	0.53
5:df:128:ILE:O	5:df:132:LYS:HG2	2.08	0.53
5:dg:111:LYS:NZ	5:dj:74:LYS:HE3	2.23	0.53
5:ds:111:LYS:NZ	5:dv:74:LYS:HE3	2.24	0.53
5:dt:128:ILE:O	5:dt:132:LYS:HG2	2.08	0.53
5:eC:55:ILE:O	5:eC:59:ILE:HG12	2.09	0.53
5:eI:56:ASN:HB2	5:eq:146:GLU:H	1.72	0.53
5:eN:128:ILE:O	5:eN:132:LYS:HG2	2.08	0.53
5:eS:55:ILE:O	5:eS:59:ILE:HG12	2.09	0.53
5:eV:74:LYS:HE3	5:eW:111:LYS:NZ	2.23	0.53
5:eV:128:ILE:O	5:eV:132:LYS:HG2	2.08	0.53
5:ef:128:ILE:O	5:ef:132:LYS:HG2	2.08	0.53
5:ex:74:LYS:HE3	5:ey:111:LYS:NZ	2.23	0.53
5:ez:128:ILE:O	5:ez:132:LYS:HG2	2.08	0.53
5:fD:128:ILE:O	5:fD:132:LYS:HG2	2.08	0.53
5:fT:128:ILE:O	5:fT:132:LYS:HG2	2.08	0.53
5:fl:128:ILE:O	5:fl:132:LYS:HG2	2.08	0.53
1:Ao:286:ASP:HB2	1:Ao:294:HIS:HB2	1.91	0.53
1:Av:66:THR:HG22	2:CF:52:CYS:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:165:ILE:HD13	1:BH:191:LEU:HD23	1.89	0.53
1:BQ:55:ALA:O	1:Fr:86:TYR:OH	2.19	0.53
1:Bd:161:MET:SD	2:Ci:31:LEU:HD21	2.48	0.53
2:Br:33:SER:H	1:TQ:48:LYS:HZ2	1.55	0.53
2:Cc:32:LEU:HD23	1:Fq:77:VAL:HG21	1.90	0.53
4:DB:141:LEU:HD11	4:DB:165:ALA:HB2	1.90	0.53
4:DH:77:ILE:HG13	4:DH:91:PRO:HB3	1.89	0.53
1:Eq:165:ILE:HD13	1:Eq:191:LEU:HD23	1.89	0.53
1:Ev:80:ASN:ND2	1:Ev:153:PRO:O	2.42	0.53
1:FW:307:THR:O	1:FW:310:THR:OG1	2.24	0.53
1:GJ:286:ASP:HB2	1:GJ:294:HIS:HB2	1.90	0.53
2:Gu:165:LYS:HE3	2:Gu:168:GLU:HA	1.89	0.53
2:HE:23:LYS:N	2:HE:67:TYR:OH	2.41	0.53
4:Hu:141:LEU:HD11	4:Hu:165:ALA:HB2	1.90	0.53
1:Jh:165:ILE:HD13	1:Jh:191:LEU:HD23	1.90	0.53
1:Jk:80:ASN:ND2	1:Jk:153:PRO:O	2.42	0.53
1:Jl:261:ILE:HD12	1:Jl:312:LEU:HD23	1.89	0.53
1:KT:77:VAL:HG11	1:KT:305:LEU:HD13	1.91	0.53
1:Kj:26:TYR:O	5:Nt:218:TYR:OH	2.26	0.53
1:Kl:78:ARG:O	1:Kl:154:ASN:ND2	2.33	0.53
1:Kr:143:LYS:HA	2:Lu:39:ARG:HE	1.73	0.53
1:Ks:194:GLY:HA3	2:ME:36:ILE:HG21	1.91	0.53
1:Kw:55:ALA:HA	1:LD:141:ILE:HD13	1.90	0.53
2:La:56:LYS:HD2	2:Lb:56:LYS:HA	1.91	0.53
1:OZ:80:ASN:ND2	1:OZ:153:PRO:O	2.42	0.53
1:PT:78:ARG:O	1:PT:154:ASN:ND2	2.31	0.53
1:Pm:140:SER:HB2	1:Pm:148:GLN:HG2	1.91	0.53
1:Pt:110:ASN:OD1	1:Pw:62:ASN:ND2	2.37	0.53
2:QE:63:PRO:HB2	2:QE:85:GLU:HG2	1.90	0.53
2:Qi:23:LYS:N	2:Qi:67:TYR:OH	2.41	0.53
2:Qi:133:PRO:HG3	2:Qi:161:SER:HA	1.89	0.53
4:RW:23:LYS:N	4:RW:67:TYR:OH	2.41	0.53
1:TM:165:ILE:HD13	1:TM:191:LEU:HD23	1.91	0.53
1:TS:226:SER:OG	1:Td:226:SER:O	2.25	0.53
1:Tb:66:THR:HG22	2:Ux:52:CYS:HB3	1.91	0.53
1:Tt:217:TYR:O	1:Tt:225:SER:N	2.37	0.53
1:UL:152:LEU:HD21	2:Vb:105:SER:HA	1.90	0.53
1:UY:261:ILE:HD12	1:UY:312:LEU:HD23	1.89	0.53
1:Uc:77:VAL:HG21	2:Vd:32:LEU:HD23	1.89	0.53
1:Ul:161:MET:SD	2:Vq:31:LEU:HD21	2.48	0.53
6:YA:142:LYS:HA	6:YA:145:LEU:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:YI:244:ASN:O	6:YI:248:LEU:HG	2.09	0.53
5:YL:103:LEU:HD12	5:YL:113:ILE:HG23	1.91	0.53
5:YM:103:LEU:HD12	5:YM:113:ILE:HG23	1.90	0.53
5:YO:103:LEU:HD12	5:YO:113:ILE:HG23	1.91	0.53
5:YP:86:ILE:HG13	5:YP:118:ARG:HE	1.73	0.53
5:Ya:55:ILE:O	5:Ya:59:ILE:HG12	2.07	0.53
5:Yn:128:ILE:O	5:Yn:132:LYS:HG2	2.08	0.53
5:Yr:74:LYS:HE3	5:Ys:111:LYS:HD3	1.91	0.53
5:Yw:112:ASP:OD1	5:Yw:115:GLN:NE2	2.40	0.53
5:ZL:125:PHE:HB3	5:ZL:158:ASN:HB3	1.91	0.53
5:an:128:ILE:O	5:an:132:LYS:HG2	2.08	0.53
5:aq:103:LEU:HD12	5:aq:113:ILE:HG23	1.89	0.53
5:bL:128:ILE:O	5:bL:132:LYS:HG2	2.08	0.53
5:bM:111:LYS:NZ	5:bP:74:LYS:HE3	2.24	0.53
5:bO:111:LYS:NZ	5:bR:74:LYS:HE3	2.24	0.53
5:bR:128:ILE:O	5:bR:132:LYS:HG2	2.08	0.53
5:bc:55:ILE:HG21	5:cI:116:ALA:HB2	1.91	0.53
5:bg:111:LYS:NZ	5:bj:74:LYS:HE3	2.23	0.53
5:bz:128:ILE:O	5:bz:132:LYS:HG2	2.08	0.53
5:cJ:128:ILE:O	5:cJ:132:LYS:HG2	2.08	0.53
5:cK:111:LYS:NZ	5:cN:74:LYS:HE3	2.23	0.53
5:cc:111:LYS:NZ	5:cf:74:LYS:HE3	2.23	0.53
5:cx:128:ILE:O	5:cx:132:LYS:HG2	2.08	0.53
5:dl:128:ILE:O	5:dl:132:LYS:HG2	2.08	0.53
5:do:54:SER:HB3	5:do:56:ASN:OD1	2.08	0.53
5:ef:74:LYS:HE3	5:eg:111:LYS:NZ	2.23	0.53
5:fH:74:LYS:HE3	5:fI:111:LYS:NZ	2.23	0.53
1:AL:55:ALA:O	1:AW:86:TYR:OH	2.21	0.53
1:AR:48:LYS:NZ	4:Vt:33:SER:O	2.41	0.53
1:Am:13:VAL:HG21	1:Am:103:SER:HB2	1.90	0.53
1:Am:92:LYS:NZ	1:Am:94:THR:OG1	2.42	0.53
1:Ap:152:LEU:HD21	2:CJ:105:SER:HA	1.91	0.53
1:At:66:THR:HG22	4:Cx:52:ARG:HB3	1.90	0.53
1:BS:92:LYS:NZ	1:BS:94:THR:OG1	2.34	0.53
1:BU:26:TYR:O	5:Ee:218:TYR:OH	2.16	0.53
1:Ba:196:GLU:HB3	1:Ba:265:ASN:HD22	1.74	0.53
1:Be:164:GLN:HE22	1:Be:308:ARG:HA	1.71	0.53
2:Bj:137:LEU:HD11	2:Bj:159:ALA:HB2	1.89	0.53
2:CL:65:LYS:HB2	2:CL:85:GLU:HG3	1.90	0.53
2:Ca:69:TYR:HB2	2:Ca:101:ILE:HD12	1.91	0.53
4:Ct:69:TYR:HB2	4:Ct:108:ILE:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Et:165:ILE:HD13	1:Et:191:LEU:HD23	1.91	0.53
1:FW:165:ILE:HD13	1:FW:191:LEU:HD23	1.89	0.53
1:Fe:43:TYR:HE1	1:Fe:45:LYS:HG3	1.74	0.53
1:Fe:77:VAL:HG11	1:Fe:305:LEU:HD13	1.90	0.53
1:Fe:152:LEU:HD21	2:Gy:105:SER:HA	1.91	0.53
1:GK:286:ASP:HB2	1:GK:294:HIS:HB2	1.90	0.53
2:Gt:22:MET:HB2	2:Gt:25:PRO:HG3	1.90	0.53
2:HO:123:LEU:HD21	2:HO:131:VAL:HG21	1.89	0.53
4:Hq:141:LEU:HD11	4:Hq:165:ALA:HB2	1.90	0.53
1:KC:84:LEU:HD13	1:KD:57:PRO:HB2	1.89	0.53
1:KD:174:LYS:O	1:KD:212:LYS:NZ	2.42	0.53
1:KS:49:TRP:CZ3	1:KS:74:SER:HB3	2.43	0.53
1:Kf:79:LEU:HD11	1:Kf:305:LEU:HB2	1.90	0.53
1:Ky:261:ILE:HD12	1:Ky:312:LEU:HD23	1.90	0.53
2:LL:137:LEU:HD11	2:LL:159:ALA:HB2	1.90	0.53
2:Lj:165:LYS:HE3	2:Lj:168:GLU:HA	1.89	0.53
4:Ma:149:LEU:HD13	4:Ma:181:VAL:HG21	1.91	0.53
4:Mj:23:LYS:N	4:Mj:67:TYR:OH	2.42	0.53
1:Oa:261:ILE:HD12	1:Oa:312:LEU:HD23	1.89	0.53
1:Oo:164:GLN:HE22	1:Oo:308:ARG:HA	1.72	0.53
1:Os:174:LYS:O	1:Os:212:LYS:NZ	2.42	0.53
1:PO:66:THR:HG22	2:QY:52:CYS:HB3	1.89	0.53
1:PW:317:LYS:HE2	1:PW:319:SER:HB2	1.91	0.53
1:Ps:87:LYS:NZ	2:RA:53:THR:O	2.32	0.53
1:Pt:212:LYS:HA	1:Pt:215:LYS:HE3	1.90	0.53
2:QJ:137:LEU:HD11	2:QJ:159:ALA:HB2	1.91	0.53
4:RS:149:LEU:HD13	4:RS:181:VAL:HG21	1.90	0.53
1:UF:92:LYS:NZ	1:UF:94:THR:OG1	2.42	0.53
1:UI:174:LYS:O	1:UI:212:LYS:NZ	2.41	0.53
1:Ub:140:SER:HB2	1:Ub:148:GLN:HG2	1.91	0.53
2:VM:22:MET:HB2	2:VM:25:PRO:HG3	1.91	0.53
2:Ve:69:TYR:HB2	2:Ve:101:ILE:HD12	1.91	0.53
2:Vp:148:VAL:HG21	2:Vp:155:VAL:HG12	1.89	0.53
6:YB:196:SER:HB3	6:YB:198:VAL:HG22	1.91	0.53
6:YB:205:SER:HB3	6:YB:248:LEU:HD12	1.90	0.53
5:YS:153:SER:O	5:YS:157:VAL:HG23	2.08	0.53
5:Ys:112:ASP:OD1	5:Ys:115:GLN:NE2	2.41	0.53
5:Ze:111:LYS:HZ2	5:Zh:74:LYS:HE3	1.73	0.53
5:aK:98:PHE:HB3	5:aK:117:GLN:HE22	1.73	0.53
5:aM:111:LYS:NZ	5:aP:74:LYS:HE3	2.23	0.53
5:ae:111:LYS:NZ	5:ah:74:LYS:HE3	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:am:111:LYS:NZ	5:ap:74:LYS:HE3	2.24	0.53
5:aw:111:LYS:NZ	5:az:74:LYS:HE3	2.23	0.53
5:bJ:128:ILE:O	5:bJ:132:LYS:HG2	2.08	0.53
5:bS:111:LYS:NZ	5:bV:74:LYS:HE3	2.23	0.53
5:be:111:LYS:NZ	5:bh:74:LYS:HE3	2.23	0.53
5:bw:103:LEU:HD12	5:bw:113:ILE:HG23	1.89	0.53
5:cE:111:LYS:NZ	5:cH:74:LYS:HE3	2.23	0.53
5:cZ:128:ILE:O	5:cZ:132:LYS:HG2	2.08	0.53
5:cq:111:LYS:NZ	5:ct:74:LYS:HE3	2.23	0.53
5:dI:111:LYS:NZ	5:dL:74:LYS:HE3	2.23	0.53
5:di:111:LYS:NZ	5:dl:74:LYS:HE3	2.23	0.53
5:dp:128:ILE:O	5:dp:132:LYS:HG2	2.08	0.53
5:eH:128:ILE:O	5:eH:132:LYS:HG2	2.08	0.53
5:fD:74:LYS:HE3	5:fE:111:LYS:NZ	2.23	0.53
5:fl:74:LYS:HE3	5:fm:111:LYS:NZ	2.23	0.53
1:AE:165:ILE:HD13	1:AE:191:LEU:HD23	1.91	0.53
1:AG:66:THR:HG22	2:Bi:52:CYS:SG	2.48	0.53
1:AG:80:ASN:ND2	1:AG:153:PRO:O	2.42	0.53
1:AL:13:VAL:HA	1:AL:16:ILE:HG22	1.90	0.53
1:AX:100:THR:HG22	1:AX:105:ILE:HG23	1.90	0.53
1:BB:77:VAL:HG21	2:Vk:32:LEU:HD23	1.90	0.53
1:BI:244:ARG:NH2	1:GA:231:GLU:OE2	2.34	0.53
1:BU:65:ASN:ND2	2:CW:57:ASP:O	2.42	0.53
4:Cs:161:ILE:HA	4:Cs:186:ASN:HA	1.89	0.53
1:FJ:143:LYS:HA	2:Gi:39:ARG:HE	1.71	0.53
1:FR:307:THR:HG22	2:Gq:32:LEU:HB2	1.90	0.53
1:Fm:92:LYS:NZ	1:Fm:94:THR:OG1	2.42	0.53
1:Fy:196:GLU:HB3	1:Fy:265:ASN:HD22	1.73	0.53
1:GF:59:THR:O	4:Mg:61:ASN:ND2	2.40	0.53
4:Hj:161:ILE:O	4:Hj:187:LYS:N	2.40	0.53
1:Je:20:VAL:O	5:Mo:213:ARG:NH2	2.41	0.53
1:KG:307:THR:HG22	2:Lf:32:LEU:HB2	1.90	0.53
1:KT:152:LEU:HD21	2:Ln:105:SER:HA	1.91	0.53
1:Kh:152:LEU:HD21	2:Lx:105:SER:HA	1.90	0.53
1:Kj:49:TRP:CZ3	1:Kj:74:SER:HB3	2.44	0.53
1:Kw:57:PRO:HA	1:LD:86:TYR:HE1	1.73	0.53
1:Ky:286:ASP:HB2	1:Ky:294:HIS:HB2	1.90	0.53
2:LS:165:LYS:HE3	2:LS:168:GLU:HA	1.91	0.53
2:Lf:76:SER:HB3	2:Lf:87:GLU:HG2	1.91	0.53
1:PC:86:TYR:OH	1:PF:55:ALA:O	2.22	0.53
1:PM:164:GLN:HE22	1:PM:308:ARG:HA	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Qt:69:TYR:HB2	2:Qt:101:ILE:HD12	1.91	0.53
1:TI:20:VAL:O	5:WS:213:ARG:NH2	2.41	0.53
1:TL:165:ILE:HD13	1:TL:191:LEU:HD23	1.90	0.53
1:TO:80:ASN:ND2	1:TO:153:PRO:O	2.42	0.53
1:UG:86:TYR:OH	1:UH:55:ALA:O	2.23	0.53
1:UT:89:ARG:HH21	1:UT:112:LEU:HD21	1.73	0.53
1:UV:26:TYR:O	5:Xf:218:TYR:OH	2.25	0.53
1:Ub:13:VAL:HA	1:Ub:16:ILE:HG22	1.89	0.53
1:Ui:212:LYS:HA	1:Ui:215:LYS:HE3	1.90	0.53
1:Um:161:MET:SD	2:Vn:31:LEU:HD21	2.48	0.53
2:VZ:65:LYS:HD3	2:VZ:87:GLU:HB3	1.91	0.53
2:Vh:123:LEU:HD21	2:Vh:131:VAL:HG21	1.89	0.53
2:Vi:69:TYR:HB2	2:Vi:101:ILE:HD12	1.91	0.53
4:Vt:161:ILE:HA	4:Vt:186:ASN:HA	1.89	0.53
5:YU:130:GLN:O	5:YU:134:ILE:HG12	2.09	0.53
5:YV:55:ILE:HG21	5:Ym:116:ALA:CB	2.16	0.53
5:YX:55:ILE:O	5:YX:59:ILE:HG12	2.09	0.53
5:Yo:112:ASP:OD1	5:Yo:115:GLN:NE2	2.42	0.53
5:Yz:131:ILE:HD13	5:Yz:140:ILE:HD11	1.91	0.53
5:ZC:55:ILE:HD12	5:Ze:116:ALA:HB1	1.91	0.53
5:aT:128:ILE:O	5:aT:132:LYS:HG2	2.08	0.53
5:aU:111:LYS:NZ	5:aX:74:LYS:HE3	2.23	0.53
5:bQ:62:GLU:OE1	5:bw:97:HIS:NE2	2.42	0.53
5:br:128:ILE:O	5:br:132:LYS:HG2	2.08	0.53
5:cR:128:ILE:O	5:cR:132:LYS:HG2	2.08	0.53
5:cY:111:LYS:NZ	5:cb:74:LYS:HE3	2.24	0.53
5:cd:128:ILE:O	5:cd:132:LYS:HG2	2.08	0.53
5:ck:111:LYS:NZ	5:cn:74:LYS:HE3	2.24	0.53
5:eA:111:LYS:NZ	5:eD:74:LYS:HE3	2.23	0.53
5:eC:111:LYS:NZ	5:eF:74:LYS:HE3	2.23	0.53
5:eT:74:LYS:HE3	5:eU:111:LYS:NZ	2.23	0.53
5:fd:128:ILE:O	5:fd:132:LYS:HG2	2.08	0.53
5:fh:128:ILE:O	5:fh:132:LYS:HG2	2.08	0.53
1:AO:307:THR:HG22	4:Cp:32:LEU:HB2	1.91	0.53
1:AR:196:GLU:HB3	1:AR:265:ASN:HD22	1.74	0.53
1:BA:174:LYS:O	1:BA:212:LYS:NZ	2.41	0.53
2:CE:22:MET:HB2	2:CE:25:PRO:HG3	1.91	0.53
4:Cl:33:SER:O	1:FG:48:LYS:NZ	2.41	0.53
1:Es:49:TRP:CZ3	1:Es:74:SER:HB3	2.43	0.53
1:FG:196:GLU:HB3	1:FG:265:ASN:HD22	1.74	0.53
1:GB:152:LEU:HD21	4:Hu:112:SER:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GK:317:LYS:NZ	1:GK:319:SER:OXT	2.42	0.53
1:GT:286:ASP:HB2	1:GT:294:HIS:HB2	1.91	0.53
2:Gl:56:LYS:HD2	2:Gm:56:LYS:HA	1.91	0.53
1:Jf:165:ILE:HD13	1:Jf:191:LEU:HD23	1.89	0.53
1:KE:87:LYS:NZ	2:Lc:53:THR:O	2.29	0.53
1:Kk:65:ASN:ND2	2:Lx:57:ASP:O	2.42	0.53
1:Km:55:ALA:O	1:Pe:86:TYR:OH	2.26	0.53
1:Kp:49:TRP:CZ3	1:Kp:74:SER:HB3	2.43	0.53
1:Ky:77:VAL:HG21	2:Lz:32:LEU:HD23	1.89	0.53
1:LI:286:ASP:HB2	1:LI:294:HIS:HB2	1.91	0.53
2:MB:22:MET:HG3	2:MB:26:GLN:HE22	1.72	0.53
4:MQ:149:LEU:HD13	4:MQ:181:VAL:HG21	1.91	0.53
4:MX:69:TYR:HB2	4:MX:108:ILE:HD12	1.91	0.53
4:MY:161:ILE:O	4:MY:187:LYS:N	2.40	0.53
4:Mc:93:VAL:HG21	4:Mc:117:ILE:HD11	1.90	0.53
4:Mh:23:LYS:N	4:Mh:67:TYR:OH	2.41	0.53
1:OW:86:TYR:OH	1:OZ:55:ALA:O	2.22	0.53
1:OW:165:ILE:HD13	1:OW:191:LEU:HD23	1.90	0.53
1:Oj:13:VAL:HA	1:Oj:16:ILE:HG22	1.91	0.53
1:PE:49:TRP:CZ3	1:PE:74:SER:HB3	2.44	0.53
1:PV:47:VAL:HG22	1:PV:76:VAL:HG22	1.89	0.53
2:Qs:123:LEU:HD21	2:Qs:131:VAL:HG21	1.89	0.53
1:Ti:259:ILE:HB	1:Ti:314:VAL:HB	1.90	0.53
1:UN:26:TYR:O	5:XX:218:TYR:OH	2.26	0.53
1:UN:49:TRP:CZ3	1:UN:74:SER:HB3	2.44	0.53
1:UU:86:TYR:OH	1:UW:55:ALA:O	2.16	0.53
1:Ui:196:GLU:HB3	1:Ui:265:ASN:HD22	1.74	0.53
2:VX:23:LYS:N	2:VX:67:TYR:OH	2.41	0.53
4:WJ:141:LEU:HD11	4:WJ:165:ALA:HB2	1.90	0.53
5:Ys:153:SER:O	5:Ys:157:VAL:HG23	2.09	0.53
5:Yw:130:GLN:HB3	5:Yw:154:LEU:HD21	1.89	0.53
5:ZS:112:ASP:OD1	5:ZS:115:GLN:NE2	2.41	0.53
5:Zk:103:LEU:HD12	5:Zk:113:ILE:HG23	1.90	0.53
5:Zw:111:LYS:NZ	5:Zz:74:LYS:HE3	2.23	0.53
5:aB:128:ILE:O	5:aB:132:LYS:HG2	2.08	0.53
5:aL:128:ILE:O	5:aL:132:LYS:HG2	2.08	0.53
5:ac:111:LYS:NZ	5:af:74:LYS:HE3	2.23	0.53
5:aj:128:ILE:O	5:aj:132:LYS:HG2	2.08	0.53
5:bU:103:LEU:HD12	5:bU:113:ILE:HG23	1.89	0.53
5:cO:111:LYS:NZ	5:cR:74:LYS:HE3	2.23	0.53
5:cW:103:LEU:HD12	5:cW:113:ILE:HG23	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dQ:55:ILE:HD13	5:dw:116:ALA:HB1	1.91	0.53
5:dh:74:LYS:HE3	5:eK:111:LYS:NZ	2.23	0.53
5:dk:147:ILE:HG13	5:eS:55:ILE:HG23	1.90	0.53
5:du:98:PHE:HB3	5:du:117:GLN:HE22	1.72	0.53
5:dw:55:ILE:O	5:dw:59:ILE:HG12	2.08	0.53
5:eE:55:ILE:O	5:eE:59:ILE:HG12	2.09	0.53
5:eP:128:ILE:O	5:eP:132:LYS:HG2	2.08	0.53
5:fM:116:ALA:HB1	5:fs:55:ILE:HD13	1.91	0.53
1:AK:226:SER:OG	1:AV:226:SER:O	2.25	0.53
1:Au:26:TYR:O	5:EE:218:TYR:OH	2.21	0.53
1:BV:317:LYS:NZ	1:BV:319:SER:OXT	2.42	0.53
2:Bl:63:PRO:HB2	2:Bl:85:GLU:HG2	1.90	0.53
2:CD:32:LEU:HD21	1:Tz:305:LEU:HD21	1.90	0.53
2:CF:183:ILE:H	4:Cw:189:MET:HA	1.74	0.53
2:CP:23:LYS:N	2:CP:67:TYR:OH	2.41	0.53
2:Cf:22:MET:HG3	2:Cf:26:GLN:HE22	1.73	0.53
1:GA:49:TRP:CZ3	1:GA:74:SER:HB3	2.43	0.53
1:Jl:113:LEU:HD23	1:Jl:117:GLN:HB2	1.91	0.53
1:KQ:92:LYS:NZ	1:KQ:94:THR:OG1	2.41	0.53
1:KS:286:ASP:HB2	1:KS:294:HIS:HB2	1.91	0.53
1:Kz:317:LYS:NZ	1:Kz:319:SER:OXT	2.42	0.53
2:Lp:65:LYS:HB2	2:Lp:85:GLU:HG3	1.90	0.53
2:Lt:23:LYS:N	2:Lt:67:TYR:OH	2.41	0.53
2:MG:32:LEU:HD23	1:PU:77:VAL:HG21	1.90	0.53
1:Oq:57:PRO:HG2	1:Pw:84:LEU:HD13	1.91	0.53
1:Ow:163:GLU:HB2	2:Qb:31:LEU:HD22	1.91	0.53
1:PE:217:TYR:O	1:PE:225:SER:N	2.37	0.53
1:PK:305:LEU:HD21	2:VL:32:LEU:HD21	1.90	0.53
1:Pa:86:TYR:OH	1:Pi:55:ALA:O	2.20	0.53
1:Pb:161:MET:SD	4:WN:31:LEU:HD21	2.48	0.53
1:Ph:194:GLY:HA3	2:Qt:36:ILE:HG21	1.91	0.53
1:Pl:55:ALA:HA	1:Ps:141:ILE:HD13	1.90	0.53
1:Tk:54:ASN:HA	2:VJ:42:ASN:HD22	1.74	0.53
1:Ts:256:LYS:HG2	1:Ts:257:HIS:CD2	2.43	0.53
1:UL:317:LYS:HE2	1:UL:319:SER:HB2	1.91	0.53
1:Ua:55:ALA:HA	1:Uh:141:ILE:HD13	1.90	0.53
2:VE:56:LYS:HD2	2:VF:56:LYS:HA	1.91	0.53
4:WR:69:TYR:HB2	4:WR:108:ILE:HD12	1.89	0.53
5:YT:55:ILE:O	5:YT:59:ILE:HG12	2.09	0.53
5:Yz:128:ILE:O	5:Yz:132:LYS:HG2	2.08	0.53
5:Za:55:ILE:O	5:Za:59:ILE:HG12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:aO:111:LYS:NZ	5:aR:74:LYS:HE3	2.23	0.53
5:aS:111:LYS:NZ	5:aV:74:LYS:HE3	2.23	0.53
5:bC:111:LYS:NZ	5:bF:74:LYS:HE3	2.23	0.53
5:bY:55:ILE:HG21	5:cE:116:ALA:HB2	1.91	0.53
5:cj:128:ILE:O	5:cj:132:LYS:HG2	2.08	0.53
5:dk:111:LYS:NZ	5:dn:74:LYS:HE3	2.24	0.53
5:eK:55:ILE:O	5:eK:59:ILE:HG12	2.09	0.53
5:ek:98:PHE:HB3	5:ek:117:GLN:HE22	1.74	0.53
5:ev:128:ILE:O	5:ev:132:LYS:HG2	2.08	0.53
5:ex:128:ILE:O	5:ex:132:LYS:HG2	2.08	0.53
5:fn:128:ILE:O	5:fn:132:LYS:HG2	2.08	0.53
1:AQ:13:VAL:HA	1:AQ:16:ILE:HG22	1.91	0.53
1:AS:59:THR:O	4:Cs:61:ASN:ND2	2.41	0.53
1:Ac:54:ASN:HA	2:CB:42:ASN:HD22	1.74	0.53
1:Al:49:TRP:CZ3	1:Al:74:SER:HB3	2.44	0.53
1:Aw:55:ALA:O	1:UB:86:TYR:OH	2.23	0.53
1:BB:86:TYR:OH	1:BL:55:ALA:O	2.23	0.53
1:BM:152:LEU:HD21	4:DF:112:SER:HA	1.91	0.53
1:BP:135:LEU:HD21	1:BP:255:LEU:HG	1.90	0.53
2:Ci:69:TYR:HB2	2:Ci:101:ILE:HD12	1.90	0.53
1:Ev:66:THR:HG22	2:GX:52:CYS:SG	2.48	0.53
1:FH:55:ALA:O	1:FO:86:TYR:OH	2.18	0.53
1:FS:41:MET:HE3	1:FS:83:LYS:H	1.74	0.53
1:Fv:80:ASN:ND2	1:Fv:154:ASN:HB2	2.24	0.53
1:GD:161:MET:SD	2:HP:31:LEU:HD21	2.49	0.53
1:GJ:65:ASN:ND2	2:HL:57:ASP:O	2.42	0.53
2:GW:137:LEU:HD11	2:GW:159:ALA:HB2	1.90	0.53
2:Gn:77:PHE:HD2	4:Hh:138:LYS:HE2	1.74	0.53
2:Gu:183:ILE:H	4:Hl:189:MET:HA	1.72	0.53
4:Ho:149:LEU:HD13	4:Ho:181:VAL:HG21	1.90	0.53
1:KI:158:LEU:HB3	1:KI:260:LEU:HD21	1.91	0.53
1:KK:286:ASP:HB2	1:KK:294:HIS:HB2	1.91	0.53
1:KP:49:TRP:CZ3	1:KP:74:SER:HB3	2.44	0.53
1:KQ:13:VAL:HG21	1:KQ:103:SER:HB2	1.91	0.53
1:KT:43:TYR:HE1	1:KT:45:LYS:HG3	1.74	0.53
1:KU:257:HIS:CE1	1:KU:318:GLN:HG3	2.44	0.53
1:Kp:89:ARG:HH21	1:Kp:112:LEU:HD21	1.73	0.53
1:Kt:135:LEU:HD21	1:Kt:255:LEU:HG	1.90	0.53
1:Ku:261:ILE:HD12	1:Ku:312:LEU:HD23	1.89	0.53
2:LK:69:TYR:HB2	2:LK:101:ILE:HD12	1.91	0.53
4:MO:93:VAL:HG21	4:MO:117:ILE:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Og:80:ASN:ND2	1:Og:153:PRO:O	2.34	0.53
1:Oj:257:HIS:CE1	1:Oj:318:GLN:HG3	2.44	0.53
1:Oz:152:LEU:HD21	2:QV:105:SER:HA	1.91	0.53
1:Pc:196:GLU:HB3	1:Pc:265:ASN:HD22	1.73	0.53
1:Po:317:LYS:NZ	1:Po:319:SER:OXT	2.42	0.53
2:QM:58:LYS:HE2	4:RI:123:ASN:OD1	2.09	0.53
2:QX:22:MET:HB2	2:QX:25:PRO:HG3	1.90	0.53
2:Qy:165:LYS:HE3	2:Qy:168:GLU:HA	1.91	0.53
4:RR:46:PHE:CE1	1:Tq:73:SER:HB3	2.43	0.53
4:RY:141:LEU:HD11	4:RY:165:ALA:HB2	1.90	0.53
5:Rs:187:ALA:O	5:Rs:208:ASN:ND2	2.41	0.53
1:TK:50:ASP:OD1	1:TK:51:ALA:N	2.42	0.53
1:TS:57:PRO:HB2	1:TW:84:LEU:HD13	1.89	0.53
1:TY:257:HIS:CE1	1:TY:318:GLN:HG3	2.44	0.53
1:Tu:11:LYS:HB2	1:Tx:39:LEU:HD13	1.91	0.53
1:UW:161:MET:SD	2:Vi:31:LEU:HD21	2.49	0.53
1:UX:135:LEU:HD21	1:UX:255:LEU:HG	1.90	0.53
4:WP:161:ILE:HA	4:WP:186:ASN:HA	1.90	0.53
5:YS:90:ALA:HA	5:YS:121:LEU:HD21	1.91	0.53
5:Yf:131:ILE:HD13	5:Yf:140:ILE:HD11	1.91	0.53
5:ZH:94:LEU:HD21	5:ZH:121:LEU:HD23	1.89	0.53
5:Zi:103:LEU:HD12	5:Zi:113:ILE:HG23	1.91	0.53
5:ba:111:LYS:NZ	5:bd:74:LYS:HE3	2.24	0.53
5:cM:111:LYS:NZ	5:cP:74:LYS:HE3	2.23	0.53
5:ce:103:LEU:HD12	5:ce:113:ILE:HG23	1.90	0.53
5:cg:111:LYS:NZ	5:cj:74:LYS:HE3	2.24	0.53
5:ci:111:LYS:NZ	5:cl:74:LYS:HE3	2.24	0.53
5:dB:128:ILE:O	5:dB:132:LYS:HG2	2.08	0.53
5:eG:55:ILE:O	5:eG:59:ILE:HG12	2.09	0.53
5:eZ:74:LYS:HE3	5:ea:111:LYS:NZ	2.23	0.53
5:ed:74:LYS:HE3	5:ee:111:LYS:NZ	2.23	0.53
5:en:128:ILE:O	5:en:132:LYS:HG2	2.08	0.53
5:eo:55:ILE:O	5:eo:59:ILE:HG12	2.09	0.53
1:AE:259:ILE:HB	1:AE:314:VAL:HB	1.91	0.53
1:AM:49:TRP:CZ3	1:AM:74:SER:HB3	2.44	0.53
1:AZ:80:ASN:HD22	1:AZ:154:ASN:HB2	1.74	0.53
1:Am:11:LYS:HB2	1:Ap:39:LEU:HD13	1.91	0.53
1:Ar:305:LEU:HD21	2:Gs:32:LEU:HD21	1.90	0.53
1:At:164:GLN:HE22	1:At:308:ARG:HA	1.73	0.53
1:BD:317:LYS:HE2	1:BD:319:SER:HB2	1.91	0.53
1:BO:161:MET:SD	2:Ca:31:LEU:HD21	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BW:161:MET:SD	2:Ce:31:LEU:HD21	2.49	0.53
2:CR:65:LYS:HD3	2:CR:87:GLU:HB3	1.91	0.53
2:CR:180:ASN:O	2:CS:180:ASN:ND2	2.33	0.53
4:Co:77:ILE:HG12	4:Co:91:PRO:HB3	1.90	0.53
1:FM:57:PRO:HG2	1:GS:84:LEU:HD13	1.91	0.53
1:Fa:49:TRP:CZ3	1:Fa:74:SER:HB3	2.44	0.53
1:Fc:317:LYS:NZ	1:Fc:319:SER:OXT	2.34	0.53
2:Gd:165:LYS:HE3	2:Gd:168:GLU:HA	1.91	0.53
2:Gk:137:LEU:HD11	2:Gk:159:ALA:HB2	1.92	0.53
2:Gp:125:LYS:NZ	2:Gp:169:ASP:OD1	2.38	0.53
2:HU:22:MET:HG3	2:HU:26:GLN:HE22	1.74	0.53
4:Hb:149:LEU:HD13	4:Hb:181:VAL:HG21	1.91	0.53
1:Jg:50:ASP:OD1	1:Jg:51:ALA:N	2.42	0.53
1:Ji:165:ILE:HD13	1:Ji:191:LEU:HD23	1.91	0.53
1:Js:307:THR:HG22	4:MT:32:LEU:HB2	1.91	0.53
1:Jx:66:THR:HG22	2:LT:52:CYS:HB3	1.90	0.53
1:KH:41:MET:HE3	1:KH:83:LYS:H	1.74	0.53
1:KK:152:LEU:HD21	2:Lg:105:SER:HA	1.91	0.53
1:Kg:47:VAL:HG22	1:Kg:76:VAL:HG22	1.90	0.53
1:Kk:80:ASN:ND2	1:Kk:154:ASN:HB2	2.24	0.53
1:Ks:161:MET:SD	2:ME:31:LEU:HD21	2.49	0.53
2:Lo:123:LEU:HD13	2:Lo:173:VAL:HG11	1.92	0.53
2:Lo:140:ASN:OD1	2:Lo:144:GLU:N	2.39	0.53
2:MA:69:TYR:HB2	2:MA:101:ILE:HD12	1.91	0.53
4:Mc:46:PHE:CE1	1:PB:73:SER:HB3	2.43	0.53
4:Mj:141:LEU:HD11	4:Mj:165:ALA:HB2	1.90	0.53
1:OX:165:ILE:HD13	1:OX:191:LEU:HD23	1.91	0.53
1:Pp:86:TYR:OH	1:Px:55:ALA:O	2.24	0.53
1:Pp:196:GLU:HB3	1:Pp:265:ASN:HD22	1.74	0.53
2:QS:69:TYR:HB2	2:QS:101:ILE:HD12	1.91	0.53
4:RH:77:ILE:HG12	4:RH:91:PRO:HB3	1.90	0.53
1:TJ:165:ILE:HD13	1:TJ:191:LEU:HD23	1.89	0.53
1:TM:259:ILE:HB	1:TM:314:VAL:HB	1.91	0.53
1:Tu:92:LYS:NZ	1:Tu:94:THR:OG1	2.41	0.53
1:UB:164:GLN:HE22	1:UB:308:ARG:HA	1.73	0.53
2:VD:137:LEU:HD11	2:VD:159:ALA:HB2	1.91	0.53
2:Vf:133:PRO:HG3	2:Vf:161:SER:HA	1.91	0.53
4:WG:93:VAL:HG21	4:WG:117:ILE:HD11	1.90	0.53
6:Xy:270:TYR:OH	6:YC:194:ASP:O	2.22	0.53
6:YI:393:ASN:HB2	6:YI:396:GLU:HG3	1.91	0.53
5:YN:81:GLU:HA	5:YN:84:ASN:ND2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yq:55:ILE:HD11	5:Zq:98:PHE:HD2	1.74	0.53
5:ZV:128:ILE:O	5:ZV:132:LYS:HG2	2.08	0.53
5:ae:62:GLU:OE1	5:bK:97:HIS:NE2	2.42	0.53
5:bS:103:LEU:HD12	5:bS:113:ILE:HG23	1.90	0.53
5:bY:111:LYS:NZ	5:bb:74:LYS:HE3	2.23	0.53
5:cB:128:ILE:O	5:cB:132:LYS:HG2	2.08	0.53
5:cI:111:LYS:NZ	5:cL:74:LYS:HE3	2.23	0.53
5:cm:111:LYS:NZ	5:cp:74:LYS:HE3	2.24	0.53
5:dE:111:LYS:NZ	5:dH:74:LYS:HE3	2.23	0.53
5:dr:128:ILE:O	5:dr:132:LYS:HG2	2.08	0.53
5:ds:55:ILE:O	5:ds:59:ILE:HG12	2.09	0.53
5:dw:111:LYS:NZ	5:dz:74:LYS:HE3	2.23	0.53
5:eO:55:ILE:O	5:eO:59:ILE:HG12	2.09	0.53
5:eX:128:ILE:O	5:eX:132:LYS:HG2	2.08	0.53
5:ey:55:ILE:O	5:ey:59:ILE:HG12	2.08	0.53
5:fF:74:LYS:HE3	5:fG:111:LYS:NZ	2.23	0.53
1:AD:165:ILE:HD13	1:AD:191:LEU:HD23	1.90	0.52
1:Ak:256:LYS:HG2	1:Ak:257:HIS:CD2	2.43	0.52
1:Am:48:LYS:HD2	4:Cw:32:LEU:HD23	1.90	0.52
2:Bo:69:TYR:HB2	2:Bo:101:ILE:HD12	1.91	0.52
2:CX:133:PRO:HG3	2:CX:161:SER:HA	1.91	0.52
4:Cn:93:VAL:HG21	4:Cn:117:ILE:HD11	1.90	0.52
1:Ez:152:LEU:HD21	2:Gb:105:SER:HA	1.92	0.52
1:FO:80:ASN:HD22	1:FO:154:ASN:HB2	1.75	0.52
1:Fb:92:LYS:NZ	1:Fb:94:THR:OG1	2.41	0.52
1:GL:86:TYR:OH	1:GT:55:ALA:O	2.24	0.52
1:GL:196:GLU:HB3	1:GL:265:ASN:HD22	1.74	0.52
2:Gd:69:TYR:HB2	2:Gd:101:ILE:HD12	1.91	0.52
2:Gq:76:SER:HB3	2:Gq:87:GLU:HG2	1.91	0.52
1:Jf:143:LYS:HA	2:LL:39:ARG:HE	1.74	0.52
1:Jq:49:TRP:CZ3	1:Jq:74:SER:HB3	2.44	0.52
1:Jz:164:GLN:HE22	1:Jz:308:ARG:HA	1.73	0.52
1:KB:57:PRO:HG2	1:LH:84:LEU:HD13	1.91	0.52
1:KG:54:ASN:HA	2:Lf:42:ASN:HD22	1.74	0.52
1:Kb:92:LYS:NZ	1:Kb:94:THR:OG1	2.42	0.52
1:LA:86:TYR:OH	1:LI:55:ALA:O	2.24	0.52
2:LU:137:LEU:HD11	2:LU:159:ALA:HB2	1.91	0.52
2:LX:58:LYS:HE2	4:MT:123:ASN:OD1	2.09	0.52
2:LZ:56:LYS:HD2	4:MU:56:PHE:HD1	1.74	0.52
4:Mf:141:LEU:HD11	4:Mf:165:ALA:HB2	1.90	0.52
1:OZ:66:THR:HG22	2:QB:52:CYS:SG	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Oh:261:ILE:HD12	1:Oh:312:LEU:HD23	1.91	0.52
1:Om:8:TYR:CD2	1:Om:93:GLN:HG3	2.44	0.52
1:Oz:286:ASP:HB2	1:Oz:294:HIS:HB2	1.91	0.52
1:PA:307:THR:O	1:PA:310:THR:OG1	2.24	0.52
1:PW:152:LEU:HD21	2:Qm:105:SER:HA	1.90	0.52
1:PZ:65:ASN:ND2	2:Qm:57:ASP:O	2.42	0.52
1:Pd:196:GLU:HB3	1:Pd:265:ASN:HD22	1.74	0.52
2:Ql:69:TYR:HB2	2:Ql:101:ILE:HD12	1.91	0.52
2:Qy:22:MET:HG3	2:Qy:26:GLN:HE22	1.74	0.52
4:RE:33:SER:O	1:TZ:48:LYS:NZ	2.41	0.52
4:RM:69:TYR:HB2	4:RM:108:ILE:HD12	1.91	0.52
4:Ra:141:LEU:HD11	4:Ra:165:ALA:HB2	1.91	0.52
4:Rc:14:LYS:HG3	4:WQ:14:LYS:HG3	1.92	0.52
1:TY:54:ASN:OD1	2:Ur:47:ASN:ND2	2.38	0.52
1:Td:257:HIS:CE1	1:Td:318:GLN:HG3	2.45	0.52
1:Tf:57:PRO:HG2	1:Ul:84:LEU:HD13	1.91	0.52
1:Th:174:LYS:O	1:Th:212:LYS:NZ	2.42	0.52
1:Tx:43:TYR:HE1	1:Tx:45:LYS:HG3	1.74	0.52
1:Uc:261:ILE:HD12	1:Uc:312:LEU:HD23	1.91	0.52
1:Uc:286:ASP:HB2	1:Uc:294:HIS:HB2	1.90	0.52
2:VH:69:TYR:HB2	2:VH:101:ILE:HD12	1.91	0.52
5:ZK:126:VAL:HG22	5:ZK:154:LEU:HG	1.92	0.52
5:aD:128:ILE:O	5:aD:132:LYS:HG2	2.08	0.52
5:as:111:LYS:NZ	5:av:74:LYS:HE3	2.23	0.52
5:au:55:ILE:O	5:au:59:ILE:HG12	2.09	0.52
5:dk:111:LYS:HZ2	5:dn:74:LYS:HE3	1.74	0.52
5:dq:98:PHE:HB3	5:dq:117:GLN:HE22	1.74	0.52
5:du:55:ILE:O	5:du:59:ILE:HG12	2.09	0.52
5:fN:128:ILE:O	5:fN:132:LYS:HG2	2.08	0.52
1:AI:48:LYS:HZ2	2:Gg:33:SER:H	1.56	0.52
1:AX:57:PRO:HG2	1:Bd:84:LEU:HD13	1.91	0.52
1:BK:212:LYS:HA	1:BK:215:LYS:HE3	1.91	0.52
1:BS:57:PRO:HA	1:BZ:86:TYR:HE1	1.73	0.52
2:CJ:137:LEU:HD11	2:CJ:159:ALA:HB2	1.89	0.52
1:Ew:113:LEU:HD23	1:Ew:117:GLN:HB2	1.91	0.52
1:FB:49:TRP:CZ3	1:FB:74:SER:HB3	2.44	0.52
1:FF:257:HIS:CE1	1:FF:318:GLN:HG3	2.44	0.52
1:FR:54:ASN:HA	2:Gq:42:ASN:HD22	1.74	0.52
1:FT:158:LEU:HB3	1:FT:260:LEU:HD21	1.91	0.52
1:Ff:257:HIS:CE1	1:Ff:318:GLN:HG3	2.44	0.52
1:Fj:107:ASP:OD2	1:Fj:110:ASN:ND2	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fs:317:LYS:HE2	1:Fs:319:SER:HB2	1.91	0.52
1:Fu:49:TRP:CZ3	1:Fu:74:SER:HB3	2.44	0.52
1:GT:78:ARG:O	1:GT:154:ASN:ND2	2.32	0.52
2:HM:133:PRO:HG3	2:HM:161:SER:HA	1.91	0.52
1:Ju:257:HIS:CE1	1:Ju:318:GLN:HG3	2.44	0.52
1:Jx:8:TYR:CD2	1:Jx:93:GLN:HG3	2.44	0.52
1:Jx:87:LYS:NZ	2:LW:53:THR:O	2.34	0.52
1:KO:16:ILE:HD11	1:KO:120:LYS:HE3	1.91	0.52
1:Kh:317:LYS:HE2	1:Kh:319:SER:HB2	1.91	0.52
1:Kp:164:GLN:HE22	1:Kp:308:ARG:HA	1.73	0.52
2:ML:148:VAL:HG21	2:ML:155:VAL:HG12	1.89	0.52
2:MM:69:TYR:HB2	2:MM:101:ILE:HD12	1.90	0.52
4:MV:142:ILE:HD11	4:MV:152:VAL:HG23	1.92	0.52
4:Me:161:ILE:HA	4:Me:186:ASN:HA	1.92	0.52
1:OX:259:ILE:HB	1:OX:314:VAL:HB	1.91	0.52
1:Ox:261:ILE:HD12	1:Ox:312:LEU:HD23	1.90	0.52
1:PF:11:LYS:HB2	1:PI:39:LEU:HD13	1.91	0.52
1:PI:43:TYR:HE1	1:PI:45:LYS:HG3	1.74	0.52
1:PI:77:VAL:HG11	1:PI:305:LEU:HD13	1.90	0.52
1:PI:152:LEU:HD21	2:Qc:105:SER:HA	1.91	0.52
1:Pn:161:MET:SD	2:Qo:31:LEU:HD21	2.50	0.52
1:Po:286:ASP:HB2	1:Po:294:HIS:HB2	1.90	0.52
1:Ps:270:LYS:HG2	1:Ps:272:LYS:HE3	1.92	0.52
4:RJ:28:ASP:OD2	1:Tc:78:ARG:NH2	2.42	0.52
4:RN:161:ILE:O	4:RN:187:LYS:N	2.40	0.52
4:Rb:141:LEU:HD11	4:Rb:165:ALA:HB2	1.91	0.52
1:Tf:87:LYS:NZ	4:Vy:53:THR:O	2.38	0.52
1:Ts:55:ALA:O	1:Tw:86:TYR:OH	2.25	0.52
1:Tv:317:LYS:NZ	1:Tv:319:SER:OXT	2.33	0.52
1:Tx:152:LEU:HD21	2:VR:105:SER:HA	1.91	0.52
1:US:59:THR:O	4:WI:61:ASN:ND2	2.43	0.52
1:Ue:161:MET:SD	2:Vm:31:LEU:HD21	2.49	0.52
2:Uw:69:TYR:HB2	2:Uw:101:ILE:HD12	1.92	0.52
2:VU:125:LYS:NZ	2:VU:169:ASP:OD1	2.39	0.52
4:WN:141:LEU:HD11	4:WN:165:ALA:HB2	1.90	0.52
5:YY:75:GLN:NE2	5:YY:79:GLU:OE1	2.42	0.52
5:Yg:144:ASP:HB2	5:Yg:148:LEU:HD22	1.91	0.52
5:Zg:103:LEU:HD12	5:Zg:113:ILE:HG23	1.91	0.52
5:ae:55:ILE:O	5:ae:59:ILE:HG12	2.09	0.52
5:bT:128:ILE:O	5:bT:132:LYS:HG2	2.08	0.52
5:dj:128:ILE:O	5:dj:132:LYS:HG2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fQ:55:ILE:O	5:fQ:59:ILE:HG12	2.09	0.52
5:fl:74:LYS:HE3	5:fm:111:LYS:HZ2	1.74	0.52
1:Af:49:TRP:CZ3	1:Af:74:SER:HB3	2.45	0.52
1:BG:80:ASN:ND2	1:BG:154:ASN:HB2	2.24	0.52
1:BI:19:GLU:OE1	1:BI:120:LYS:NZ	2.38	0.52
1:BT:140:SER:HB2	1:BT:148:GLN:HG2	1.91	0.52
1:BU:161:MET:SD	2:CV:31:LEU:HD21	2.50	0.52
2:Bv:137:LEU:HD11	2:Bv:159:ALA:HB2	1.91	0.52
2:CW:69:TYR:HB2	2:CW:101:ILE:HD12	1.91	0.52
4:DH:141:LEU:HD11	4:DH:165:ALA:HB2	1.91	0.52
1:Et:259:ILE:HB	1:Et:314:VAL:HB	1.91	0.52
1:FO:174:LYS:O	1:FO:212:LYS:NZ	2.42	0.52
1:FY:77:VAL:HG11	1:FY:305:LEU:HD13	1.91	0.52
1:Fv:84:LEU:HD13	1:Fw:57:PRO:HB2	1.92	0.52
1:Fz:196:GLU:HB3	1:Fz:265:ASN:HD22	1.74	0.52
1:GI:140:SER:HB2	1:GI:148:GLN:HG2	1.91	0.52
1:GR:52:PHE:HB3	4:Hh:41:LYS:HE2	1.90	0.52
2:Gz:123:LEU:HD13	2:Gz:173:VAL:HG11	1.91	0.52
4:Hi:69:TYR:HB2	4:Hi:108:ILE:HD12	1.91	0.52
4:Hl:149:LEU:HD13	4:Hl:181:VAL:HG21	1.91	0.52
1:Jk:66:THR:HG22	2:LM:52:CYS:SG	2.49	0.52
1:KB:84:LEU:HD13	1:On:57:PRO:HB2	1.89	0.52
1:KQ:11:LYS:HB2	1:KT:39:LEU:HD13	1.91	0.52
1:Ko:212:LYS:HA	1:Ko:215:LYS:HE3	1.91	0.52
1:Kz:80:ASN:ND2	1:Kz:154:ASN:HB2	2.25	0.52
1:LA:161:MET:SD	2:MI:31:LEU:HD21	2.49	0.52
2:MF:75:LEU:HD22	2:MF:84:LEU:HD13	1.92	0.52
1:Oo:165:ILE:HD13	1:Oo:191:LEU:HD23	1.92	0.52
1:Oq:100:THR:HG22	1:Oq:105:ILE:HG23	1.90	0.52
1:Ox:158:LEU:HB3	1:Ox:260:LEU:HD21	1.91	0.52
1:PY:49:TRP:CZ3	1:PY:74:SER:HB3	2.44	0.52
2:QP:56:LYS:HD2	2:QQ:56:LYS:HA	1.91	0.52
2:QU:76:SER:HB3	2:QU:87:GLU:HG2	1.91	0.52
2:Qd:123:LEU:HD13	2:Qd:173:VAL:HG11	1.91	0.52
2:Qk:65:LYS:HD3	2:Qk:87:GLU:HB3	1.91	0.52
4:RY:69:TYR:HB2	4:RY:108:ILE:HD12	1.90	0.52
1:Tb:87:LYS:NZ	2:VA:53:THR:O	2.34	0.52
1:UL:87:LYS:NZ	4:WK:53:THR:O	2.36	0.52
1:UO:65:ASN:ND2	2:Vb:57:ASP:O	2.42	0.52
1:US:212:LYS:HA	1:US:215:LYS:HE3	1.91	0.52
1:Uc:65:ASN:ND2	2:Ve:57:ASP:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Us:69:TYR:HB2	2:Us:101:ILE:HD12	1.92	0.52
2:Va:69:TYR:HB2	2:Va:101:ILE:HD12	1.91	0.52
4:Vv:93:VAL:HG21	4:Vv:117:ILE:HD11	1.90	0.52
5:ZK:131:ILE:HD13	5:ZK:140:ILE:HD11	1.92	0.52
5:Zd:128:ILE:O	5:Zd:132:LYS:HG2	2.08	0.52
5:aY:98:PHE:HB3	5:aY:117:GLN:HE22	1.74	0.52
5:at:128:ILE:O	5:at:132:LYS:HG2	2.08	0.52
5:bc:111:LYS:NZ	5:bf:74:LYS:HE3	2.23	0.52
5:bi:111:LYS:NZ	5:bl:74:LYS:HE3	2.23	0.52
5:by:103:LEU:HD12	5:by:113:ILE:HG23	1.90	0.52
5:ca:103:LEU:HD12	5:ca:113:ILE:HG23	1.90	0.52
5:dO:55:ILE:HD13	5:du:116:ALA:HB1	1.92	0.52
5:ds:111:LYS:HZ2	5:dv:74:LYS:HE3	1.74	0.52
5:eU:55:ILE:O	5:eU:59:ILE:HG12	2.09	0.52
5:fF:128:ILE:O	5:fF:132:LYS:HG2	2.08	0.52
1:AB:143:LYS:HA	2:Bh:39:ARG:HE	1.75	0.52
1:AT:66:THR:HG22	2:Bp:52:CYS:HB3	1.91	0.52
1:Ad:41:MET:HE3	1:Ad:83:LYS:H	1.74	0.52
1:Af:150:ARG:HE	2:CB:63:PRO:HB3	1.75	0.52
1:Aj:86:TYR:OH	1:Am:55:ALA:O	2.22	0.52
1:At:84:LEU:HB3	1:Fl:57:PRO:HB2	1.92	0.52
1:BD:205:VAL:HG12	1:BD:259:ILE:HG23	1.92	0.52
1:BL:164:GLN:HE22	1:BL:308:ARG:HA	1.73	0.52
1:BS:205:VAL:HG12	1:BS:259:ILE:HG23	1.90	0.52
1:BT:196:GLU:OE1	1:BT:265:ASN:ND2	2.41	0.52
1:Ba:308:ARG:O	2:Cb:34:ASN:ND2	2.42	0.52
1:Be:78:ARG:O	1:Be:154:ASN:ND2	2.32	0.52
2:Bz:69:TYR:HB2	2:Bz:101:ILE:HD12	1.92	0.52
4:Ck:149:LEU:HD13	4:Ck:181:VAL:HG21	1.92	0.52
4:DF:73:VAL:HG21	4:DF:117:ILE:HD13	1.92	0.52
4:DJ:69:TYR:HB2	4:DJ:108:ILE:HD12	1.89	0.52
1:FM:100:THR:HG22	1:FM:105:ILE:HG23	1.90	0.52
1:FN:87:LYS:NZ	4:Hg:53:THR:O	2.39	0.52
1:Fw:161:MET:SD	2:HL:31:LEU:HD21	2.50	0.52
1:Fz:59:THR:O	4:Hp:61:ASN:ND2	2.41	0.52
1:Fz:212:LYS:HA	1:Fz:215:LYS:HE3	1.91	0.52
1:GK:80:ASN:ND2	1:GK:154:ASN:HB2	2.25	0.52
1:GT:152:LEU:HD21	2:Gn:105:SER:HA	1.92	0.52
2:GZ:69:TYR:HB2	2:GZ:101:ILE:HD12	1.92	0.52
2:HK:77:PHE:HB2	4:Hs:138:LYS:HE2	1.90	0.52
2:HX:69:TYR:HB2	2:HX:101:ILE:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:HZ:93:VAL:HG21	4:HZ:117:ILE:HD11	1.90	0.52
4:Ha:33:SER:O	1:Jv:48:LYS:NZ	2.41	0.52
4:Hp:161:ILE:HA	4:Hp:186:ASN:HA	1.92	0.52
1:Jo:152:LEU:HD21	2:LQ:105:SER:HA	1.92	0.52
1:KE:259:ILE:HB	1:KE:314:VAL:HB	1.90	0.52
1:KV:227:CYS:SG	1:KV:228:GLU:N	2.71	0.52
2:ME:69:TYR:HB2	2:ME:101:ILE:HD12	1.91	0.52
2:MJ:165:LYS:HE3	2:MJ:168:GLU:HA	1.91	0.52
4:MP:33:SER:O	1:Ok:48:LYS:NZ	2.41	0.52
4:Md:149:LEU:HD13	4:Md:181:VAL:HG21	1.90	0.52
4:Mn:14:LYS:HG3	4:Rb:14:LYS:HG3	1.91	0.52
1:Oa:113:LEU:HD23	1:Oa:117:GLN:HB2	1.91	0.52
1:Od:152:LEU:HD21	2:QF:105:SER:HA	1.91	0.52
1:Os:306:ALA:O	4:RK:31:LEU:HB2	2.09	0.52
1:PD:289:SER:HB2	1:PE:85:GLN:HE22	1.75	0.52
1:PG:55:ALA:O	1:PK:86:TYR:OH	2.24	0.52
1:PU:79:LEU:HD11	1:PU:305:LEU:HB2	1.91	0.52
1:Pl:57:PRO:HA	1:Ps:86:TYR:HE1	1.73	0.52
1:Pm:55:ALA:O	1:Pq:86:TYR:OH	2.20	0.52
1:Pn:65:ASN:ND2	2:Qp:57:ASP:O	2.42	0.52
1:Px:286:ASP:HB2	1:Px:294:HIS:HB2	1.91	0.52
4:RV:69:TYR:HB2	4:RV:108:ILE:HD12	1.89	0.52
4:RX:14:LYS:HG3	4:WN:14:LYS:HG3	1.91	0.52
1:Tt:49:TRP:CZ3	1:Tt:74:SER:HB3	2.44	0.52
1:UJ:79:LEU:HD11	1:UJ:305:LEU:HB2	1.91	0.52
1:US:196:GLU:HB3	1:US:265:ASN:HD22	1.74	0.52
1:Ud:317:LYS:NZ	1:Ud:319:SER:OXT	2.42	0.52
4:Vw:77:ILE:HG12	4:Vw:91:PRO:HB3	1.90	0.52
5:Wh:187:ALA:O	5:Wh:208:ASN:ND2	2.41	0.52
6:YH:393:ASN:HB2	6:YH:396:GLU:HG3	1.92	0.52
5:YK:86:ILE:HG13	5:YK:118:ARG:HE	1.74	0.52
5:YL:90:ALA:HA	5:YL:121:LEU:HD21	1.91	0.52
5:al:128:ILE:O	5:al:132:LYS:HG2	2.08	0.52
5:bQ:111:LYS:HZ2	5:bT:74:LYS:HE3	1.74	0.52
5:by:111:LYS:NZ	5:cB:74:LYS:HE3	2.24	0.52
5:cc:103:LEU:HD12	5:cc:113:ILE:HG23	1.90	0.52
5:dJ:128:ILE:O	5:dJ:132:LYS:HG2	2.08	0.52
5:eb:74:LYS:HE3	5:ec:111:LYS:NZ	2.23	0.52
5:fA:55:ILE:O	5:fA:59:ILE:HG12	2.09	0.52
5:ff:128:ILE:O	5:ff:132:LYS:HG2	2.08	0.52
1:AH:113:LEU:HD23	1:AH:117:GLN:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:257:HIS:CE1	1:AQ:318:GLN:HG3	2.44	0.52
1:Ax:79:LEU:HD11	1:Ax:305:LEU:HB2	1.92	0.52
1:BD:107:ASP:OD2	1:BD:110:ASN:ND2	2.37	0.52
2:CK:140:ASN:OD1	2:CK:144:GLU:N	2.39	0.52
2:CN:181:ARG:NH1	2:CN:182:ALA:O	2.43	0.52
4:Cl:149:LEU:HD13	4:Cl:181:VAL:HG21	1.92	0.52
4:Cy:93:VAL:HG21	4:Cy:117:ILE:HD11	1.90	0.52
4:DI:14:LYS:HG3	4:WR:14:LYS:HG3	1.92	0.52
1:FV:152:LEU:HD21	2:Gr:105:SER:HA	1.91	0.52
1:Fb:11:LYS:HB2	1:Fe:39:LEU:HD13	1.91	0.52
1:Fb:86:TYR:OH	1:Fe:55:ALA:O	2.21	0.52
1:Fr:55:ALA:O	1:Fu:86:TYR:OH	2.23	0.52
1:Fs:205:VAL:HG12	1:Fs:259:ILE:HG23	1.92	0.52
1:Fv:152:LEU:HD21	4:Hs:112:SER:HA	1.92	0.52
2:HE:167:THR:HG22	2:HE:168:GLU:H	1.75	0.52
4:Hs:161:ILE:HA	4:Hs:186:ASN:HA	1.91	0.52
1:Jh:49:TRP:CZ3	1:Jh:74:SER:HB3	2.43	0.52
1:Jm:48:LYS:HZ2	2:QK:33:SER:H	1.53	0.52
1:Jz:257:HIS:CE1	1:Jz:318:GLN:HG3	2.45	0.52
1:Kf:86:TYR:OH	1:Kp:55:ALA:O	2.23	0.52
1:Kh:205:VAL:HG12	1:Kh:259:ILE:HG23	1.92	0.52
1:Kk:84:LEU:HD13	1:Kl:57:PRO:HB2	1.92	0.52
1:Ko:196:GLU:HB3	1:Ko:265:ASN:HD22	1.74	0.52
2:LO:165:LYS:HE3	2:LO:168:GLU:HA	1.92	0.52
2:LS:69:TYR:HB2	2:LS:101:ILE:HD12	1.91	0.52
4:MO:149:LEU:HD13	4:MO:181:VAL:HG21	1.92	0.52
4:Ma:73:VAL:HG21	4:Ma:117:ILE:HD13	1.91	0.52
1:Od:244:ARG:NH1	1:Oh:210:SER:OG	2.40	0.52
1:PF:13:VAL:HG21	1:PF:103:SER:HB2	1.91	0.52
1:PQ:92:LYS:NZ	1:PQ:94:THR:OG1	2.42	0.52
1:Pd:212:LYS:HA	1:Pd:215:LYS:HE3	1.91	0.52
4:RD:149:LEU:HD13	4:RD:181:VAL:HG21	1.92	0.52
4:RP:73:VAL:HG21	4:RP:117:ILE:HD13	1.91	0.52
4:RY:23:LYS:N	4:RY:67:TYR:OH	2.42	0.52
1:Td:165:ILE:HD13	1:Td:191:LEU:HD23	1.92	0.52
1:Tn:49:TRP:CZ3	1:Tn:74:SER:HB3	2.45	0.52
1:Ts:289:SER:HB2	1:Tt:85:GLN:HE22	1.75	0.52
1:UC:26:TYR:O	5:XM:218:TYR:OH	2.21	0.52
1:UW:79:LEU:HD11	1:UW:305:LEU:HB2	1.92	0.52
1:Uh:270:LYS:HG2	1:Uh:272:LYS:HE3	1.92	0.52
2:Vj:75:LEU:HD22	2:Vj:84:LEU:HD13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WN:23:LYS:N	4:WN:67:TYR:OH	2.42	0.52
4:WN:69:TYR:HB2	4:WN:108:ILE:HD12	1.90	0.52
5:Ye:131:ILE:HD13	5:Ye:140:ILE:HD11	1.92	0.52
5:Yi:103:LEU:HD12	5:Yi:113:ILE:HG23	1.92	0.52
5:Yi:119:ARG:HD3	5:Yi:141:SER:HA	1.91	0.52
5:Yq:86:ILE:HD11	5:Yq:118:ARG:HE	1.74	0.52
5:Ys:79:GLU:OE1	5:Ys:82:ARG:NH1	2.42	0.52
5:ZH:76:LEU:HD22	5:ZI:76:LEU:HD21	1.92	0.52
5:ZH:131:ILE:HD13	5:ZH:140:ILE:HD11	1.91	0.52
5:Za:111:LYS:HZ2	5:Zd:74:LYS:HE3	1.72	0.52
5:Za:112:ASP:OD1	5:Za:115:GLN:NE2	2.42	0.52
5:ay:111:LYS:NZ	5:bB:74:LYS:HE3	2.23	0.52
5:cV:74:LYS:HE3	5:cy:111:LYS:HZ2	1.75	0.52
5:dK:111:LYS:HZ2	5:dN:74:LYS:HE3	1.74	0.52
5:dO:98:PHE:HB3	5:dO:117:GLN:HE22	1.74	0.52
5:do:98:PHE:HB3	5:do:117:GLN:HE22	1.73	0.52
5:dq:56:ASN:HB2	5:eY:146:GLU:H	1.73	0.52
1:AU:87:LYS:NZ	2:Bt:53:THR:O	2.30	0.52
1:AZ:181:PHE:HD1	1:AZ:184:ILE:HD12	1.75	0.52
1:Ac:192:GLU:OE1	2:CB:34:ASN:ND2	2.43	0.52
1:BH:161:MET:SD	2:CW:31:LEU:HD21	2.50	0.52
1:BH:257:HIS:CE1	1:BH:318:GLN:HG3	2.45	0.52
1:BU:261:ILE:HD12	1:BU:312:LEU:HD23	1.90	0.52
1:BV:286:ASP:HB2	1:BV:294:HIS:HB2	1.90	0.52
4:Cw:149:LEU:HD13	4:Cw:181:VAL:HG21	1.91	0.52
1:Eq:143:LYS:HA	2:GW:39:ARG:HE	1.75	0.52
1:FA:257:HIS:CD2	1:FA:318:GLN:HG3	2.45	0.52
1:FO:181:PHE:HD1	1:FO:184:ILE:HD12	1.75	0.52
1:Fx:261:ILE:HD12	1:Fx:312:LEU:HD23	1.92	0.52
1:GD:194:GLY:HA3	2:HP:36:ILE:HG21	1.91	0.52
1:GI:196:GLU:OE1	1:GI:265:ASN:ND2	2.41	0.52
1:GJ:161:MET:SD	2:HK:31:LEU:HD21	2.50	0.52
2:HP:69:TYR:HB2	2:HP:101:ILE:HD12	1.91	0.52
4:Hc:93:VAL:HG21	4:Hc:117:ILE:HD11	1.90	0.52
4:Hg:142:ILE:HD11	4:Hg:152:VAL:HG23	1.92	0.52
1:Jz:86:TYR:OH	1:KC:55:ALA:O	2.25	0.52
1:KD:80:ASN:HD22	1:KD:154:ASN:HB2	1.75	0.52
1:KD:181:PHE:HD1	1:KD:184:ILE:HD12	1.75	0.52
1:Kq:152:LEU:HD21	4:Mj:112:SER:HA	1.92	0.52
1:Kw:205:VAL:HG12	1:Kw:259:ILE:HG23	1.89	0.52
1:Ky:65:ASN:ND2	2:MA:57:ASP:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kz:59:THR:HG21	2:MF:107:MET:HE3	1.92	0.52
1:LA:196:GLU:HB3	1:LA:265:ASN:HD22	1.74	0.52
2:LW:23:LYS:HG3	2:LW:24:ASN:H	1.75	0.52
1:On:165:ILE:HD13	1:On:191:LEU:HD23	1.92	0.52
1:Pn:286:ASP:HB2	1:Pn:294:HIS:HB2	1.90	0.52
1:Px:26:TYR:O	5:TH:218:TYR:OH	2.18	0.52
1:Px:152:LEU:HD21	2:QR:105:SER:HA	1.92	0.52
4:RP:149:LEU:HD13	4:RP:181:VAL:HG21	1.91	0.52
4:RT:161:ILE:HA	4:RT:186:ASN:HA	1.92	0.52
1:Tf:57:PRO:HB2	1:Ul:84:LEU:HB3	1.91	0.52
1:Tw:286:ASP:HB2	1:Tw:294:HIS:HB2	1.91	0.52
2:Uy:137:LEU:HD11	2:Uy:159:ALA:HB2	1.91	0.52
2:VA:23:LYS:HG3	2:VA:24:ASN:H	1.75	0.52
4:WP:141:LEU:HD11	4:WP:165:ALA:HB2	1.91	0.52
5:YM:90:ALA:HA	5:YM:121:LEU:HD21	1.92	0.52
5:YO:90:ALA:HA	5:YO:121:LEU:HD21	1.92	0.52
5:YU:55:ILE:O	5:YU:59:ILE:HG12	2.09	0.52
5:YY:131:ILE:HD13	5:YY:140:ILE:HD11	1.92	0.52
5:Yd:103:LEU:HD12	5:Yd:113:ILE:HG23	1.92	0.52
5:ZC:86:ILE:HD11	5:ZC:118:ARG:HE	1.74	0.52
5:ZF:76:LEU:HD22	5:ZG:76:LEU:HD21	1.91	0.52
5:ZN:127:PRO:O	5:ZN:131:ILE:HG13	2.10	0.52
5:bt:128:ILE:O	5:bt:132:LYS:HG2	2.08	0.52
5:dS:55:ILE:HD13	5:dy:116:ALA:HB1	1.92	0.52
5:eO:98:PHE:HB3	5:eO:117:GLN:HE22	1.74	0.52
5:em:98:PHE:HB3	5:em:117:GLN:HE22	1.74	0.52
5:fO:116:ALA:HB1	5:fu:55:ILE:HD13	1.92	0.52
1:AK:152:LEU:HD21	2:Bm:105:SER:HA	1.91	0.52
1:AZ:174:LYS:O	1:AZ:212:LYS:NZ	2.42	0.52
1:Ap:77:VAL:HG11	1:Ap:305:LEU:HD13	1.91	0.52
1:Aq:257:HIS:CE1	1:Aq:318:GLN:HG3	2.44	0.52
1:BR:194:GLY:HA3	4:DH:36:ASN:OD1	2.10	0.52
1:Be:152:LEU:HD21	2:By:105:SER:HA	1.92	0.52
2:Bw:56:LYS:HD2	2:Bx:56:LYS:HA	1.91	0.52
2:CB:76:SER:HB3	2:CB:87:GLU:HG2	1.91	0.52
2:CM:125:LYS:NZ	2:CM:169:ASP:OD1	2.38	0.52
4:DF:141:LEU:HD11	4:DF:165:ALA:HB2	1.90	0.52
1:FD:49:TRP:CZ3	1:FD:74:SER:HB3	2.45	0.52
1:FK:165:ILE:HD13	1:FK:191:LEU:HD23	1.92	0.52
1:FK:257:HIS:CE1	1:FK:318:GLN:HG3	2.45	0.52
1:FU:49:TRP:CZ3	1:FU:74:SER:HB3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fi:66:THR:HG22	4:Hm:52:ARG:HB3	1.91	0.52
1:Fp:26:TYR:O	5:Iz:218:TYR:OH	2.23	0.52
1:Fs:152:LEU:HD21	2:HI:105:SER:HA	1.90	0.52
1:GK:49:TRP:CZ3	1:GK:74:SER:HB3	2.45	0.52
1:GL:161:MET:SD	2:HT:31:LEU:HD21	2.49	0.52
2:HL:69:TYR:HB2	2:HL:101:ILE:HD12	1.91	0.52
4:Ha:149:LEU:HD13	4:Ha:181:VAL:HG21	1.92	0.52
1:Ji:259:ILE:HB	1:Ji:314:VAL:HB	1.91	0.52
1:Ju:13:VAL:HA	1:Ju:16:ILE:HG22	1.91	0.52
1:KG:192:GLU:OE1	2:Lf:34:ASN:ND2	2.43	0.52
1:KJ:150:ARG:HE	2:Lf:63:PRO:HB3	1.75	0.52
1:KO:196:GLU:HB3	1:KO:265:ASN:HD22	1.75	0.52
1:KY:26:TYR:O	5:Ni:218:TYR:OH	2.21	0.52
1:Km:261:ILE:HD12	1:Km:312:LEU:HD23	1.92	0.52
1:Ko:272:LYS:N	1:Ko:303:GLY:O	2.38	0.52
1:Ky:66:THR:HG22	2:Lz:52:CYS:HB3	1.90	0.52
2:LZ:137:LEU:HD11	2:LZ:159:ALA:HB2	1.92	0.52
2:Ld:69:TYR:HB2	2:Ld:101:ILE:HD12	1.91	0.52
2:Lt:167:THR:HG22	2:Lt:168:GLU:H	1.75	0.52
2:MB:133:PRO:HG3	2:MB:161:SER:HA	1.91	0.52
4:Mj:73:VAL:HG21	4:Mj:117:ILE:HD13	1.92	0.52
1:Oh:177:MET:HE3	1:Oh:181:PHE:HB2	1.92	0.52
1:Oj:54:ASN:OD1	2:QC:47:ASN:ND2	2.37	0.52
1:Oo:257:HIS:CE1	1:Oo:318:GLN:HG3	2.45	0.52
1:Ov:55:ALA:O	1:Ox:86:TYR:OH	2.22	0.52
1:Ov:192:GLU:OE1	2:QU:34:ASN:ND2	2.43	0.52
1:PD:16:ILE:HD11	1:PD:120:LYS:HE3	1.91	0.52
1:PJ:257:HIS:CE1	1:PJ:318:GLN:HG3	2.44	0.52
1:PW:205:VAL:HG12	1:PW:259:ILE:HG23	1.92	0.52
1:PZ:80:ASN:ND2	1:PZ:154:ASN:HB2	2.24	0.52
1:Pa:161:MET:SD	2:Qp:31:LEU:HD21	2.50	0.52
2:Qy:77:PHE:HD2	4:Rb:138:LYS:HG3	1.74	0.52
4:Ra:78:GLN:HE22	4:Ra:89:TYR:HB2	1.75	0.52
1:Td:86:TYR:OH	1:Tg:55:ALA:O	2.25	0.52
1:Tu:13:VAL:HG21	1:Tu:103:SER:HB2	1.90	0.52
1:UZ:244:ARG:NH2	1:Uc:231:GLU:OE2	2.33	0.52
1:Uc:161:MET:SD	2:Vd:31:LEU:HD21	2.50	0.52
1:Ue:174:LYS:O	1:Ue:212:LYS:NZ	2.43	0.52
2:VS:123:LEU:HD13	2:VS:173:VAL:HG11	1.91	0.52
2:VV:181:ARG:NH1	2:VV:182:ALA:O	2.43	0.52
2:Vn:22:MET:HG3	2:Vn:26:GLN:HE22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:YD:393:ASN:HB2	6:YD:396:GLU:HG3	1.92	0.52
5:Yo:86:ILE:HD11	5:Yo:118:ARG:HE	1.75	0.52
5:Yt:127:PRO:O	5:Yt:131:ILE:HG13	2.10	0.52
5:Yu:112:ASP:OD1	5:Yu:115:GLN:NE2	2.41	0.52
5:Yz:127:PRO:O	5:Yz:131:ILE:HG13	2.10	0.52
5:ZA:103:LEU:HD12	5:ZA:113:ILE:HG23	1.90	0.52
5:ZO:131:ILE:HD13	5:ZO:140:ILE:HD11	1.91	0.52
5:ZS:111:LYS:NZ	5:ZV:74:LYS:HE3	2.24	0.52
5:ai:55:ILE:HG21	5:bO:116:ALA:HB2	1.91	0.52
5:ao:103:LEU:HD12	5:ao:113:ILE:HG23	1.90	0.52
5:cG:111:LYS:NZ	5:cJ:74:LYS:HE3	2.24	0.52
5:dI:55:ILE:O	5:dI:59:ILE:HG12	2.10	0.52
5:dy:55:ILE:O	5:dy:59:ILE:HG12	2.10	0.52
5:fi:55:ILE:O	5:fi:59:ILE:HG12	2.09	0.52
1:AO:177:MET:HE3	1:AO:181:PHE:HB2	1.92	0.52
1:AS:55:ALA:O	1:AZ:86:TYR:OH	2.18	0.52
1:AV:165:ILE:HD13	1:AV:191:LEU:HD23	1.92	0.52
1:Ad:163:GLU:HB2	2:CI:31:LEU:HD22	1.91	0.52
1:Ay:86:TYR:OH	1:Az:55:ALA:O	2.24	0.52
1:BF:65:ASN:ND2	2:Ce:57:ASP:O	2.43	0.52
1:BG:84:LEU:HD13	1:BH:57:PRO:HB2	1.92	0.52
1:BM:80:ASN:ND2	1:BM:154:ASN:HB2	2.25	0.52
1:BN:143:LYS:HA	2:CQ:39:ARG:HE	1.73	0.52
1:BV:49:TRP:CZ3	1:BV:74:SER:HB3	2.45	0.52
1:BW:174:LYS:O	1:BW:212:LYS:NZ	2.43	0.52
1:Be:286:ASP:HB2	1:Be:294:HIS:HB2	1.91	0.52
2:Bs:23:LYS:HG3	2:Bs:24:ASN:H	1.75	0.52
2:CK:123:LEU:HD13	2:CK:173:VAL:HG11	1.91	0.52
2:CP:167:THR:HG22	2:CP:168:GLU:H	1.75	0.52
2:Cb:75:LEU:HD22	2:Cb:84:LEU:HD13	1.92	0.52
2:Cf:165:LYS:HE3	2:Cf:168:GLU:HA	1.91	0.52
4:DF:14:LYS:HG3	4:WM:14:LYS:HG3	1.91	0.52
1:Ex:216:PRO:HB2	1:Ex:224:ALA:HB1	1.92	0.52
1:FD:307:THR:HG22	4:He:32:LEU:HB2	1.91	0.52
1:FI:66:THR:HG22	2:Ge:52:CYS:HB3	1.90	0.52
1:GJ:261:ILE:HD12	1:GJ:312:LEU:HD23	1.91	0.52
1:GK:152:LEU:HD21	4:Hw:112:SER:HA	1.90	0.52
1:GO:81:TYR:OH	1:GO:272:LYS:O	2.22	0.52
4:Hu:73:VAL:HG21	4:Hu:117:ILE:HD13	1.92	0.52
4:Hw:78:GLN:HE22	4:Hw:89:TYR:HB2	1.75	0.52
1:KN:86:TYR:OH	1:KQ:55:ALA:O	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ki:59:THR:O	4:Mi:61:ASN:ND2	2.43	0.52
4:Ml:78:GLN:HE22	4:Ml:89:TYR:HB2	1.75	0.52
1:OY:84:LEU:HD13	1:Oj:57:PRO:HB2	1.92	0.52
1:Ot:259:ILE:HB	1:Ot:314:VAL:HB	1.90	0.52
1:PK:78:ARG:O	1:PK:154:ASN:ND2	2.41	0.52
1:Ph:79:LEU:HD11	1:Ph:305:LEU:HB2	1.92	0.52
1:Ph:161:MET:SD	2:Qt:31:LEU:HD21	2.49	0.52
1:Po:152:LEU:HD21	4:Ra:112:SER:HA	1.91	0.52
1:Pp:161:MET:SD	2:Qx:31:LEU:HD21	2.49	0.52
2:QL:23:LYS:HG3	2:QL:24:ASN:H	1.75	0.52
4:RF:149:LEU:HD13	4:RF:181:VAL:HG21	1.91	0.52
1:Th:80:ASN:HD22	1:Th:154:ASN:HB2	1.75	0.52
1:Ty:257:HIS:CE1	1:Ty:318:GLN:HG3	2.44	0.52
1:Ud:59:THR:HG21	2:Vj:107:MET:HE3	1.91	0.52
1:Uk:80:ASN:ND2	1:Uk:153:PRO:O	2.43	0.52
1:Um:152:LEU:HD21	2:VG:105:SER:HA	1.92	0.52
2:Uw:165:LYS:HE3	2:Uw:168:GLU:HA	1.91	0.52
2:VX:167:THR:HG22	2:VX:168:GLU:H	1.75	0.52
4:WQ:141:LEU:HD11	4:WQ:165:ALA:HB2	1.91	0.52
5:Yc:86:ILE:HD11	5:Yc:118:ARG:HE	1.73	0.52
5:Yi:140:ILE:HA	5:Yi:143:ILE:HG22	1.91	0.52
5:ZP:127:PRO:O	5:ZP:131:ILE:HG13	2.10	0.52
5:ZP:131:ILE:HD13	5:ZP:140:ILE:HD11	1.91	0.52
5:Zg:112:ASP:OD1	5:Zg:115:GLN:NE2	2.43	0.52
5:cu:111:LYS:HZ2	5:cx:74:LYS:HE3	1.75	0.52
5:eY:55:ILE:O	5:eY:59:ILE:HG12	2.10	0.52
1:AV:257:HIS:CE1	1:AV:318:GLN:HG3	2.45	0.52
1:Ak:289:SER:HB2	1:Al:85:GLN:HE22	1.75	0.52
1:Ax:86:TYR:OH	1:UC:55:ALA:O	2.22	0.52
1:BF:49:TRP:CZ3	1:BF:74:SER:HB3	2.44	0.52
1:BO:194:GLY:HA3	2:Ca:36:ILE:HG21	1.91	0.52
1:BU:286:ASP:HB2	1:BU:294:HIS:HB2	1.90	0.52
2:Bk:165:LYS:HE3	2:Bk:168:GLU:HA	1.92	0.52
4:Cz:149:LEU:HD13	4:Cz:181:VAL:HG21	1.90	0.52
1:Ew:55:ALA:O	1:FA:86:TYR:OH	2.27	0.52
1:FV:286:ASP:HB2	1:FV:294:HIS:HB2	1.91	0.52
1:FW:20:VAL:O	5:Ig:213:ARG:NH2	2.31	0.52
1:FZ:261:ILE:HD12	1:FZ:312:LEU:HD23	1.92	0.52
1:Fu:110:ASN:OD1	1:Fw:62:ASN:ND2	2.43	0.52
1:Fw:79:LEU:HD11	1:Fw:305:LEU:HB2	1.92	0.52
1:Fw:257:HIS:CE1	1:Fw:318:GLN:HG3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GC:143:LYS:HA	2:HF:39:ARG:HE	1.73	0.52
1:GL:174:LYS:O	1:GL:212:LYS:NZ	2.43	0.52
2:Gf:137:LEU:HD11	2:Gf:159:ALA:HB2	1.91	0.52
2:Gk:56:LYS:HD2	4:Hf:56:PHE:HD1	1.74	0.52
4:HZ:149:LEU:HD13	4:HZ:181:VAL:HG21	1.92	0.52
1:Jj:84:LEU:HD13	1:Ju:57:PRO:HB2	1.92	0.52
1:Jv:196:GLU:HB3	1:Jv:265:ASN:HD22	1.74	0.52
1:KC:80:ASN:ND2	1:KC:153:PRO:O	2.39	0.52
1:KO:80:ASN:ND2	1:KO:153:PRO:O	2.43	0.52
1:Ky:161:MET:SD	2:Lz:31:LEU:HD21	2.50	0.52
1:LI:152:LEU:HD21	2:Lc:105:SER:HA	1.92	0.52
2:Lv:65:LYS:HD3	2:Lv:87:GLU:HB3	1.91	0.52
2:MJ:22:MET:HG3	2:MJ:26:GLN:HE22	1.74	0.52
1:OV:50:ASP:OD1	1:OV:51:ALA:N	2.42	0.52
1:PD:196:GLU:HB3	1:PD:265:ASN:HD22	1.75	0.52
1:PM:86:TYR:OH	1:UE:55:ALA:O	2.23	0.52
1:PZ:84:LEU:HD13	1:Pa:57:PRO:HB2	1.92	0.52
1:Px:78:ARG:O	1:Px:154:ASN:ND2	2.32	0.52
2:QS:165:LYS:HE3	2:QS:168:GLU:HA	1.92	0.52
4:RW:10:GLU:O	4:RW:14:LYS:HG2	2.10	0.52
1:TJ:143:LYS:HA	2:Up:39:ARG:HE	1.74	0.52
1:TU:286:ASP:HB2	1:TU:294:HIS:HB2	1.92	0.52
1:Tk:85:GLN:NE2	1:Tk:298:ASP:OD1	2.40	0.52
1:UL:205:VAL:HG12	1:UL:259:ILE:HG23	1.92	0.52
1:UO:80:ASN:ND2	1:UO:154:ASN:HB2	2.24	0.52
1:UW:194:GLY:HA3	2:Vi:36:ILE:HG21	1.91	0.52
1:Ub:286:ASP:HB2	1:Ub:294:HIS:HB2	1.92	0.52
1:Uc:26:TYR:O	5:Xm:218:TYR:OH	2.16	0.52
2:Uo:69:TYR:HB2	2:Uo:101:ILE:HD12	1.91	0.52
2:Uz:183:ILE:N	4:Vw:188:ALA:O	2.40	0.52
2:VB:58:LYS:HE2	4:Vx:123:ASN:OD1	2.10	0.52
4:Vu:149:LEU:HD13	4:Vu:181:VAL:HG21	1.91	0.52
4:WE:73:VAL:HG21	4:WE:117:ILE:HD13	1.91	0.52
4:WR:10:GLU:O	4:WR:14:LYS:HG2	2.10	0.52
6:Xx:393:ASN:HB2	6:Xx:396:GLU:HG3	1.92	0.52
6:YC:260:LYS:O	6:YC:263:LEU:HG	2.10	0.52
5:am:103:LEU:HD12	5:am:113:ILE:HG23	1.90	0.52
5:cE:103:LEU:HD12	5:cE:113:ILE:HG23	1.90	0.52
5:cb:128:ILE:O	5:cb:132:LYS:HG2	2.09	0.52
5:dK:55:ILE:O	5:dK:59:ILE:HG12	2.10	0.52
5:eP:122:VAL:HG11	5:eP:151:LEU:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ec:57:GLU:HA	5:ec:60:THR:HG22	1.92	0.52
1:AI:216:PRO:HB2	1:AI:224:ALA:HB1	1.92	0.52
1:AN:70:ILE:HD11	1:AR:86:TYR:HD2	1.75	0.52
1:AQ:66:THR:HG22	2:Bj:52:CYS:SG	2.50	0.52
1:Ak:80:ASN:ND2	1:Ak:153:PRO:O	2.43	0.52
1:Ak:261:ILE:HD12	1:Ak:312:LEU:HD23	1.92	0.52
1:Aw:57:PRO:HB2	1:UB:84:LEU:HB3	1.92	0.52
1:BB:55:ALA:O	1:UZ:86:TYR:OH	2.23	0.52
1:BB:79:LEU:HD11	1:BB:305:LEU:HB2	1.91	0.52
1:Bc:80:ASN:ND2	1:Bc:153:PRO:O	2.43	0.52
4:DD:10:GLU:O	4:DD:14:LYS:HG2	2.10	0.52
4:DD:161:ILE:HA	4:DD:186:ASN:HA	1.91	0.52
4:DH:78:GLN:HE22	4:DH:89:TYR:HB2	1.75	0.52
1:FD:261:ILE:HD12	1:FD:312:LEU:HD23	1.91	0.52
1:FF:13:VAL:HA	1:FF:16:ILE:HG22	1.91	0.52
1:FJ:165:ILE:HD13	1:FJ:191:LEU:HD23	1.92	0.52
1:FN:133:PHE:O	1:FN:137:GLY:N	2.37	0.52
1:FZ:196:GLU:HB3	1:FZ:265:ASN:HD22	1.75	0.52
2:Go:69:TYR:HB2	2:Go:101:ILE:HD12	1.91	0.52
2:HC:181:ARG:NH1	2:HC:182:ALA:O	2.43	0.52
2:HQ:75:LEU:HD22	2:HQ:84:LEU:HD13	1.92	0.52
4:Hy:10:GLU:O	4:Hy:14:LYS:HG2	2.10	0.52
1:Jp:257:HIS:CD2	1:Jp:318:GLN:HG3	2.45	0.52
1:Jz:165:ILE:HD13	1:Jz:191:LEU:HD23	1.92	0.52
1:KB:79:LEU:HD11	1:KB:305:LEU:HB2	1.92	0.52
1:KH:163:GLU:HB2	2:Lm:31:LEU:HD22	1.91	0.52
1:Km:161:MET:SD	4:RY:31:LEU:HD21	2.50	0.52
1:LA:174:LYS:O	1:LA:212:LYS:NZ	2.43	0.52
1:LD:270:LYS:HG2	1:LD:272:LYS:HE3	1.92	0.52
1:LE:196:GLU:HB3	1:LE:265:ASN:HD22	1.74	0.52
2:La:59:ILE:HG22	2:La:111:ILE:HG12	1.92	0.52
2:Lw:69:TYR:HB2	2:Lw:101:ILE:HD12	1.91	0.52
4:Mh:10:GLU:O	4:Mh:14:LYS:HG2	2.10	0.52
1:Of:49:TRP:CZ3	1:Of:74:SER:HB3	2.44	0.52
1:Os:181:PHE:HD1	1:Os:184:ILE:HD12	1.75	0.52
1:PA:20:VAL:O	5:SK:213:ARG:NH2	2.31	0.52
1:PC:77:VAL:HG11	1:PC:305:LEU:HD13	1.91	0.52
1:PH:286:ASP:HB2	1:PH:294:HIS:HB2	1.90	0.52
1:PM:66:THR:HG22	4:RQ:52:ARG:HB3	1.90	0.52
1:Po:49:TRP:CZ3	1:Po:74:SER:HB3	2.45	0.52
2:Qq:133:PRO:HG3	2:Qq:161:SER:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RU:141:LEU:HD11	4:RU:165:ALA:HB2	1.90	0.52
4:RW:161:ILE:HA	4:RW:186:ASN:HA	1.91	0.52
1:TW:261:ILE:HD12	1:TW:312:LEU:HD23	1.91	0.52
1:Ta:55:ALA:O	1:Th:86:TYR:OH	2.18	0.52
1:Tb:8:TYR:CD2	1:Tb:93:GLN:HG3	2.44	0.52
1:Tk:192:GLU:OE1	2:VJ:34:ASN:ND2	2.43	0.52
1:UF:79:LEU:HD11	1:UF:305:LEU:HB2	1.92	0.52
1:UN:110:ASN:OD1	1:UP:62:ASN:ND2	2.43	0.52
1:UO:86:TYR:OH	1:UP:55:ALA:O	2.18	0.52
1:Ud:286:ASP:HB2	1:Ud:294:HIS:HB2	1.90	0.52
2:VH:165:LYS:HE3	2:VH:168:GLU:HA	1.92	0.52
4:Vs:149:LEU:HD13	4:Vs:181:VAL:HG21	1.92	0.52
4:Vw:149:LEU:HD13	4:Vw:181:VAL:HG21	1.92	0.52
6:YE:201:GLN:HB3	6:YE:248:LEU:HD22	1.92	0.52
5:YQ:79:GLU:HA	5:YQ:82:ARG:HE	1.75	0.52
5:Yg:53:LEU:HD13	5:Yg:57:GLU:HG3	1.92	0.52
5:ZK:59:ILE:HG13	5:ZW:98:PHE:HE2	1.74	0.52
5:aA:55:ILE:O	5:aA:59:ILE:HG12	2.09	0.52
5:cC:103:LEU:HD12	5:cC:113:ILE:HG23	1.91	0.52
5:cC:111:LYS:NZ	5:cF:74:LYS:HE3	2.24	0.52
5:eQ:55:ILE:O	5:eQ:59:ILE:HG12	2.10	0.52
5:eW:55:ILE:O	5:eW:59:ILE:HG12	2.10	0.52
1:AL:257:HIS:CD2	1:AL:318:GLN:HG3	2.45	0.51
1:AW:55:ALA:O	1:FI:86:TYR:OH	2.22	0.51
2:Bg:69:TYR:HB2	2:Bg:101:ILE:HD12	1.91	0.51
5:DZ:187:ALA:O	5:DZ:208:ASN:ND2	2.41	0.51
1:Ey:80:ASN:ND2	1:Ey:153:PRO:O	2.44	0.51
1:FC:70:ILE:HD11	1:FG:86:TYR:HD2	1.75	0.51
2:Go:165:LYS:HE3	2:Go:168:GLU:HA	1.92	0.51
4:Hs:10:GLU:O	4:Hs:14:LYS:HG2	2.10	0.51
1:KB:57:PRO:HB2	1:LH:84:LEU:HB3	1.92	0.51
1:Ki:196:GLU:OE1	1:Ki:265:ASN:ND2	2.43	0.51
1:Kl:79:LEU:HD11	1:Kl:305:LEU:HB2	1.92	0.51
1:Kl:161:MET:SD	2:MA:31:LEU:HD21	2.50	0.51
1:Kv:67:ILE:HG13	1:Ky:296:TYR:HE2	1.75	0.51
4:MP:73:VAL:HG21	4:MP:117:ILE:HD13	1.92	0.51
4:MS:77:ILE:HG12	4:MS:91:PRO:HB3	1.90	0.51
1:Oe:257:HIS:CD2	1:Oe:318:GLN:HG3	2.45	0.51
1:Og:164:GLN:HE22	1:Og:308:ARG:HA	1.76	0.51
1:Os:80:ASN:HD22	1:Os:154:ASN:HB2	1.75	0.51
1:Ow:41:MET:HE3	1:Ow:83:LYS:H	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Oy:49:TRP:CZ3	1:Oy:74:SER:HB3	2.45	0.51
1:PD:55:ALA:O	1:PH:86:TYR:OH	2.25	0.51
1:PY:26:TYR:O	5:Si:218:TYR:OH	2.26	0.51
1:PY:65:ASN:ND2	2:Qx:57:ASP:O	2.43	0.51
1:Pm:286:ASP:HB2	1:Pm:294:HIS:HB2	1.92	0.51
2:QD:69:TYR:HB2	2:QD:101:ILE:HD12	1.92	0.51
2:QH:69:TYR:HB2	2:QH:101:ILE:HD12	1.92	0.51
2:Qa:140:ASN:OD1	2:Qa:144:GLU:N	2.42	0.51
4:RR:93:VAL:HG21	4:RR:117:ILE:HD11	1.90	0.51
4:Rc:10:GLU:O	4:Rc:14:LYS:HG2	2.10	0.51
5:TG:193:ASN:ND2	5:dn:106:LYS:CD	2.73	0.51
1:TQ:216:PRO:HB2	1:TQ:224:ALA:HB1	1.92	0.51
1:TZ:196:GLU:HB3	1:TZ:265:ASN:HD22	1.74	0.51
1:Te:39:LEU:HD11	1:Te:81:TYR:CD2	2.41	0.51
1:Ts:261:ILE:HD12	1:Ts:312:LEU:HD23	1.92	0.51
1:UU:80:ASN:ND2	1:UU:154:ASN:HB2	2.25	0.51
3:Vr:102:THR:HG21	4:WC:56:PHE:HA	1.90	0.51
4:WN:73:VAL:HG21	4:WN:117:ILE:HD13	1.92	0.51
6:YF:393:ASN:HB2	6:YF:396:GLU:HG3	1.92	0.51
5:YY:103:LEU:HD12	5:YY:113:ILE:HG23	1.93	0.51
5:ZO:75:GLN:O	5:ZO:79:GLU:HG2	2.10	0.51
5:ac:55:ILE:O	5:ac:59:ILE:HG12	2.10	0.51
5:bS:62:GLU:OE1	5:by:97:HIS:NE2	2.43	0.51
5:cc:55:ILE:O	5:cc:59:ILE:HG12	2.10	0.51
5:eM:98:PHE:HB3	5:eM:117:GLN:HE22	1.74	0.51
5:ee:57:GLU:HA	5:ee:60:THR:HG22	1.93	0.51
1:AO:261:ILE:HD12	1:AO:312:LEU:HD23	1.91	0.51
1:AT:8:TYR:CD2	1:AT:93:GLN:HG3	2.44	0.51
1:AU:165:ILE:HD13	1:AU:191:LEU:HD23	1.92	0.51
1:AX:57:PRO:HB2	1:Bd:84:LEU:HB3	1.92	0.51
1:AX:79:LEU:HD11	1:AX:305:LEU:HB2	1.92	0.51
1:Ak:16:ILE:HD11	1:Ak:120:LYS:HE3	1.91	0.51
1:BO:79:LEU:HD11	1:BO:305:LEU:HB2	1.92	0.51
1:BW:196:GLU:HB3	1:BW:265:ASN:HD22	1.74	0.51
2:Bo:165:LYS:HE3	2:Bo:168:GLU:HA	1.91	0.51
2:CE:140:ASN:OD1	2:CE:144:GLU:N	2.43	0.51
1:FR:192:GLU:OE1	2:Gq:34:ASN:ND2	2.43	0.51
1:FZ:289:SER:HB2	1:Fa:85:GLN:HE22	1.75	0.51
1:GG:86:TYR:OH	1:Kf:55:ALA:O	2.23	0.51
2:Gb:167:THR:HG22	2:Gb:168:GLU:H	1.76	0.51
2:Gh:23:LYS:HG3	2:Gh:24:ASN:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jr:70:ILE:HD11	1:Jv:86:TYR:HD2	1.75	0.51
1:Js:261:ILE:HD12	1:Js:312:LEU:HD23	1.91	0.51
1:KJ:49:TRP:CZ3	1:KJ:74:SER:HB3	2.45	0.51
1:KO:289:SER:HB2	1:KP:85:GLN:HE22	1.75	0.51
1:Kl:257:HIS:CE1	1:Kl:318:GLN:HG3	2.45	0.51
1:Kz:49:TRP:CZ3	1:Kz:74:SER:HB3	2.45	0.51
2:Lr:181:ARG:NH1	2:Lr:182:ALA:O	2.43	0.51
2:MI:63:PRO:HB2	2:MI:85:GLU:HG2	1.93	0.51
4:MU:43:VAL:HG22	4:MU:172:ILE:HD11	1.93	0.51
1:Og:70:ILE:HD11	1:Ok:86:TYR:HD2	1.75	0.51
1:Ov:54:ASN:HA	2:QU:42:ASN:HD22	1.74	0.51
1:PD:80:ASN:ND2	1:PD:153:PRO:O	2.43	0.51
1:PP:181:PHE:HD1	1:PP:184:ILE:HD12	1.75	0.51
1:Pc:205:VAL:HG12	1:Pc:259:ILE:HG23	1.92	0.51
1:Px:87:LYS:NZ	4:RL:53:THR:O	2.40	0.51
2:QH:165:LYS:HE3	2:QH:168:GLU:HA	1.91	0.51
2:QO:137:LEU:HD11	2:QO:159:ALA:HB2	1.91	0.51
4:RK:142:ILE:HD11	4:RK:152:VAL:HG23	1.92	0.51
4:RX:36:ASN:HD22	1:UU:195:ASP:H	1.58	0.51
1:TU:49:TRP:CZ3	1:TU:74:SER:HB3	2.44	0.51
1:TW:49:TRP:CZ3	1:TW:74:SER:HB3	2.45	0.51
1:TW:307:THR:HG22	4:Vx:32:LEU:HB2	1.91	0.51
1:TY:66:THR:HG22	2:Ur:52:CYS:SG	2.50	0.51
1:Tl:41:MET:HE3	1:Tl:83:LYS:H	1.74	0.51
1:Tr:77:VAL:HG11	1:Tr:305:LEU:HD13	1.91	0.51
1:UA:8:TYR:CD2	1:UA:93:GLN:HG3	2.46	0.51
1:UE:181:PHE:HD1	1:UE:184:ILE:HD12	1.75	0.51
1:UM:140:SER:HB2	1:UM:148:GLN:HG2	1.92	0.51
1:UO:84:LEU:HD13	1:UP:57:PRO:HB2	1.92	0.51
1:UP:161:MET:SD	2:Ve:31:LEU:HD21	2.50	0.51
1:Ue:196:GLU:HB3	1:Ue:265:ASN:HD22	1.74	0.51
2:Uv:125:LYS:NZ	2:Uv:168:GLU:O	2.30	0.51
4:Vt:73:VAL:HG21	4:Vt:117:ILE:HD13	1.92	0.51
4:WE:149:LEU:HD13	4:WE:181:VAL:HG21	1.91	0.51
6:Xz:35:ASP:OD2	6:Xz:329:TYR:OH	2.19	0.51
6:YA:35:ASP:OD2	6:YA:329:TYR:OH	2.20	0.51
6:YC:393:ASN:HB2	6:YC:396:GLU:HG3	1.92	0.51
5:YL:112:ASP:OD1	5:YL:115:GLN:NE2	2.44	0.51
5:YY:71:ARG:HA	5:YY:74:LYS:HG3	1.91	0.51
5:aG:111:LYS:HZ2	5:aJ:74:LYS:HE3	1.75	0.51
5:cS:55:ILE:O	5:cS:59:ILE:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ce:55:ILE:O	5:ce:59:ILE:HG12	2.10	0.51
5:ea:57:GLU:HA	5:ea:60:THR:HG22	1.93	0.51
1:AO:49:TRP:CZ3	1:AO:74:SER:HB3	2.45	0.51
1:BF:66:THR:HG22	2:Cd:52:CYS:HB3	1.92	0.51
4:DJ:10:GLU:O	4:DJ:14:LYS:HG2	2.10	0.51
1:FI:8:TYR:CD2	1:FI:93:GLN:HG3	2.44	0.51
1:FS:163:GLU:HB2	2:Gx:31:LEU:HD22	1.91	0.51
1:Fh:8:TYR:CD2	1:Fh:93:GLN:HG3	2.46	0.51
1:Fu:65:ASN:ND2	2:HT:57:ASP:O	2.43	0.51
1:GK:59:THR:HG21	2:HQ:107:MET:HE3	1.92	0.51
1:GR:47:VAL:HG22	1:GR:76:VAL:HG22	1.93	0.51
2:Gi:58:LYS:HE2	4:He:123:ASN:OD1	2.09	0.51
2:Gu:180:ASN:O	4:Hl:186:ASN:ND2	2.43	0.51
1:Jm:216:PRO:HB2	1:Jm:224:ALA:HB1	1.92	0.51
1:Js:49:TRP:CZ3	1:Js:74:SER:HB3	2.45	0.51
1:Kt:161:MET:SD	2:MB:31:LEU:HD21	2.51	0.51
2:Lf:69:TYR:HB2	2:Lf:101:ILE:HD12	1.92	0.51
1:OU:143:LYS:HA	2:QA:39:ARG:HE	1.75	0.51
1:PL:8:TYR:CD2	1:PL:93:GLN:HG3	2.46	0.51
1:Pa:80:ASN:ND2	1:Pa:153:PRO:O	2.30	0.51
1:Pb:261:ILE:HD12	1:Pb:312:LEU:HD23	1.92	0.51
1:Pk:67:ILE:HG13	1:Pn:296:TYR:HE2	1.76	0.51
1:Pv:47:VAL:HG22	1:Pv:76:VAL:HG22	1.93	0.51
2:RB:57:ASP:OD1	2:RB:115:ASN:ND2	2.44	0.51
1:TS:152:LEU:HD21	2:Uu:105:SER:HA	1.91	0.51
1:TW:152:LEU:HD21	2:Ux:105:SER:HA	1.92	0.51
1:To:286:ASP:HB2	1:To:294:HIS:HB2	1.91	0.51
1:Tx:77:VAL:HG11	1:Tx:305:LEU:HD13	1.90	0.51
1:UB:66:THR:HG22	4:WF:52:ARG:HB3	1.91	0.51
1:UP:257:HIS:CE1	1:UP:318:GLN:HG3	2.45	0.51
1:UR:205:VAL:HG12	1:UR:259:ILE:HG23	1.92	0.51
1:UT:66:THR:HG22	2:Vb:52:CYS:HB3	1.93	0.51
1:Ua:317:LYS:HE2	1:Ua:319:SER:HB2	1.93	0.51
2:Uu:167:THR:HG22	2:Uu:168:GLU:H	1.76	0.51
2:Vm:63:PRO:HB2	2:Vm:85:GLU:HG2	1.93	0.51
4:WA:10:GLU:O	4:WA:14:LYS:HG2	2.10	0.51
4:WC:161:ILE:O	4:WC:187:LYS:N	2.40	0.51
4:WG:44:GLU:OE1	4:WG:45:PHE:N	2.44	0.51
6:YA:393:ASN:HB2	6:YA:396:GLU:HG3	1.92	0.51
5:YP:80:ALA:O	5:YP:84:ASN:HB3	2.10	0.51
5:ZB:99:ASN:HB3	5:ZB:102:VAL:HG22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZJ:126:VAL:HG22	5:ZJ:154:LEU:HG	1.92	0.51
5:ZY:111:LYS:HZ2	5:Zb:74:LYS:HE3	1.75	0.51
5:bU:55:ILE:O	5:bU:59:ILE:HG12	2.11	0.51
5:cO:111:LYS:HZ2	5:cR:74:LYS:HE3	1.76	0.51
5:ca:55:ILE:O	5:ca:59:ILE:HG12	2.10	0.51
1:AN:261:ILE:HD12	1:AN:312:LEU:HD23	1.93	0.51
1:AO:152:LEU:HD21	2:Bp:105:SER:HA	1.92	0.51
1:Aj:49:TRP:CZ3	1:Aj:74:SER:HB3	2.46	0.51
1:Aj:77:VAL:HG11	1:Aj:305:LEU:HD13	1.91	0.51
1:Am:49:TRP:CZ3	1:Am:74:SER:HB3	2.46	0.51
1:BE:140:SER:HB2	1:BE:148:GLN:HG2	1.92	0.51
1:BE:196:GLU:OE1	1:BE:265:ASN:ND2	2.43	0.51
1:BF:196:GLU:HB3	1:BF:265:ASN:HD22	1.75	0.51
1:Bc:47:VAL:HG22	1:Bc:76:VAL:HG22	1.93	0.51
1:Bc:174:LYS:O	1:Bc:212:LYS:NZ	2.44	0.51
4:Cm:149:LEU:HD13	4:Cm:181:VAL:HG21	1.91	0.51
4:Cw:73:VAL:HG21	4:Cw:117:ILE:HD13	1.91	0.51
4:DE:14:LYS:HG3	4:Hu:14:LYS:HG3	1.91	0.51
4:DF:23:LYS:N	4:DF:67:TYR:OH	2.42	0.51
1:FM:57:PRO:HB2	1:GS:84:LEU:HB3	1.92	0.51
1:FM:205:VAL:HG12	1:FM:259:ILE:HG23	1.92	0.51
1:FY:80:ASN:ND2	1:FY:153:PRO:O	2.43	0.51
1:GR:174:LYS:O	1:GR:212:LYS:NZ	2.43	0.51
2:Gh:166:LEU:HB2	2:Gh:170:LEU:HD23	1.93	0.51
4:Hy:14:LYS:HG3	4:Mm:14:LYS:HG3	1.91	0.51
1:Jo:66:THR:HG22	2:LS:52:CYS:HB3	1.93	0.51
1:Jy:165:ILE:HD13	1:Jy:191:LEU:HD23	1.92	0.51
1:Kb:79:LEU:HD11	1:Kb:305:LEU:HB2	1.92	0.51
1:LH:33:GLN:NE2	1:LH:269:ILE:O	2.41	0.51
2:LX:23:LYS:N	2:LX:67:TYR:OH	2.44	0.51
1:Od:66:THR:HG22	2:QH:52:CYS:HB3	1.93	0.51
1:Pa:257:HIS:CE1	1:Pa:318:GLN:HG3	2.45	0.51
2:QP:59:ILE:HG22	2:QP:111:ILE:HG12	1.92	0.51
2:Qu:75:LEU:HD22	2:Qu:84:LEU:HD13	1.92	0.51
5:TG:193:ASN:ND2	5:dn:106:LYS:HD3	2.21	0.51
1:To:152:LEU:HD21	2:VK:105:SER:HA	1.91	0.51
1:Ts:80:ASN:ND2	1:Ts:153:PRO:O	2.43	0.51
1:UO:152:LEU:HD21	4:WL:112:SER:HA	1.92	0.51
1:Um:286:ASP:HB2	1:Um:294:HIS:HB2	1.91	0.51
2:VB:23:LYS:N	2:VB:67:TYR:OH	2.44	0.51
4:WI:161:ILE:HA	4:WI:186:ASN:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WL:161:ILE:HA	4:WL:186:ASN:HA	1.91	0.51
6:YC:273:THR:HG22	6:YC:275:SER:H	1.76	0.51
5:Yq:133:ALA:HB2	5:Yr:157:VAL:HG21	1.92	0.51
5:Zs:103:LEU:HD12	5:Zs:113:ILE:HG23	1.91	0.51
5:cQ:55:ILE:O	5:cQ:59:ILE:HG12	2.10	0.51
5:da:98:PHE:HB3	5:da:117:GLN:HE22	1.75	0.51
5:eR:122:VAL:HG11	5:eR:151:LEU:HD13	1.92	0.51
5:ej:122:VAL:HG11	5:ej:151:LEU:HD13	1.92	0.51
5:fG:98:PHE:HB3	5:fG:117:GLN:HE22	1.75	0.51
5:fO:55:ILE:O	5:fO:59:ILE:HG12	2.09	0.51
5:fk:55:ILE:O	5:fk:59:ILE:HG12	2.10	0.51
1:Ae:158:LEU:HB3	1:Ae:260:LEU:HD21	1.91	0.51
1:Ag:152:LEU:HD21	2:CC:105:SER:HA	1.91	0.51
1:Ag:286:ASP:HB2	1:Ag:294:HIS:HB2	1.91	0.51
1:BI:261:ILE:HD12	1:BI:312:LEU:HD23	1.92	0.51
1:BP:161:MET:SD	2:CX:31:LEU:HD21	2.51	0.51
1:BV:59:THR:HG21	2:Cb:107:MET:HE3	1.92	0.51
2:Ci:57:ASP:OD1	2:Ci:115:ASN:ND2	2.44	0.51
4:Cr:142:ILE:HD11	4:Cr:152:VAL:HG23	1.92	0.51
4:Cs:10:GLU:O	4:Cs:14:LYS:HG2	2.10	0.51
4:DA:161:ILE:HA	4:DA:186:ASN:HA	1.92	0.51
4:DI:141:LEU:HD11	4:DI:165:ALA:HB2	1.91	0.51
1:FH:66:THR:OG1	4:Hh:58:LYS:NZ	2.43	0.51
1:FZ:16:ILE:HD11	1:FZ:120:LYS:HE3	1.91	0.51
1:GB:80:ASN:ND2	1:GB:154:ASN:HB2	2.25	0.51
2:GV:69:TYR:HB2	2:GV:101:ILE:HD12	1.91	0.51
4:Hn:44:GLU:OE1	4:Hn:45:PHE:N	2.44	0.51
4:Hs:149:LEU:HD13	4:Hs:181:VAL:HG21	1.93	0.51
1:KN:77:VAL:HG11	1:KN:305:LEU:HD13	1.91	0.51
1:KN:80:ASN:ND2	1:KN:153:PRO:O	2.43	0.51
1:KW:8:TYR:CD2	1:KW:93:GLN:HG3	2.46	0.51
1:KX:84:LEU:HB3	1:PP:57:PRO:HB2	1.92	0.51
1:KY:107:ASP:OD2	1:KY:110:ASN:ND2	2.31	0.51
1:Kj:65:ASN:ND2	2:MI:57:ASP:O	2.43	0.51
2:MF:133:PRO:HG3	2:MF:161:SER:HA	1.92	0.51
4:Me:142:ILE:HD11	4:Me:152:VAL:HG23	1.93	0.51
4:Ml:141:LEU:HD11	4:Ml:165:ALA:HB2	1.91	0.51
1:Oa:55:ALA:O	1:Oe:86:TYR:OH	2.27	0.51
1:Or:133:PHE:O	1:Or:137:GLY:N	2.37	0.51
1:PM:84:LEU:HB3	1:UE:57:PRO:HB2	1.92	0.51
1:Pe:66:THR:HG22	2:Qm:52:CYS:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pl:317:LYS:HE2	1:Pl:319:SER:HB2	1.93	0.51
2:Qi:167:THR:HG22	2:Qi:168:GLU:H	1.75	0.51
2:Qx:63:PRO:HB2	2:Qx:85:GLU:HG2	1.93	0.51
4:RR:44:GLU:OE1	4:RR:45:PHE:N	2.44	0.51
4:RU:10:GLU:O	4:RU:14:LYS:HG2	2.11	0.51
1:Tf:67:ILE:HG13	1:Ul:296:TYR:HE2	1.76	0.51
1:Ts:226:SER:OG	1:UD:226:SER:O	2.29	0.51
1:US:272:LYS:N	1:US:303:GLY:O	2.38	0.51
1:Ua:77:VAL:HG21	2:Vp:32:LEU:HD23	1.93	0.51
1:Uk:47:VAL:HG22	1:Uk:76:VAL:HG22	1.93	0.51
2:VJ:76:SER:HB3	2:VJ:87:GLU:HG2	1.91	0.51
2:VU:167:THR:HG22	2:VU:168:GLU:H	1.75	0.51
2:Vq:57:ASP:OD1	2:Vq:115:ASN:ND2	2.44	0.51
4:WC:166:LEU:HD12	4:WC:180:LYS:HG2	1.92	0.51
4:WL:10:GLU:O	4:WL:14:LYS:HG2	2.10	0.51
4:WP:78:GLN:HE22	4:WP:89:TYR:HB2	1.75	0.51
6:Xy:393:ASN:HB2	6:Xy:396:GLU:HG3	1.92	0.51
6:YG:393:ASN:HB2	6:YG:396:GLU:HG3	1.93	0.51
6:YH:100:LEU:HD12	6:YH:101:PRO:HD2	1.92	0.51
6:YI:238:HIS:O	6:YI:242:ILE:HG13	2.11	0.51
5:Yn:127:PRO:O	5:Yn:131:ILE:HG13	2.09	0.51
5:Yp:127:PRO:O	5:Yp:131:ILE:HG13	2.10	0.51
5:ZG:112:ASP:OD1	5:ZG:115:GLN:NE2	2.39	0.51
5:ZP:128:ILE:O	5:ZP:132:LYS:HG2	2.11	0.51
5:ZQ:111:LYS:NZ	5:ZT:74:LYS:HE3	2.25	0.51
5:Ze:112:ASP:OD1	5:Ze:115:GLN:NE2	2.44	0.51
5:bO:62:GLU:OE1	5:bu:97:HIS:NE2	2.44	0.51
5:do:111:LYS:HZ2	5:dr:74:LYS:HE3	1.74	0.51
5:eZ:122:VAL:HG11	5:eZ:151:LEU:HD13	1.91	0.51
5:fC:55:ILE:O	5:fC:59:ILE:HG12	2.10	0.51
1:AI:59:THR:O	4:Hd:61:ASN:ND2	2.44	0.51
1:AX:67:ILE:HG13	1:Bd:296:TYR:HE2	1.76	0.51
1:As:8:TYR:CD2	1:As:93:GLN:HG3	2.46	0.51
1:BH:79:LEU:HD11	1:BH:305:LEU:HB2	1.92	0.51
1:BL:66:THR:HG22	2:CT:52:CYS:HB3	1.93	0.51
4:Co:149:LEU:HD13	4:Co:181:VAL:HG21	1.93	0.51
4:Cu:166:LEU:HD12	4:Cu:180:LYS:HG2	1.92	0.51
1:FF:66:THR:HG22	2:GY:52:CYS:SG	2.50	0.51
1:Fs:107:ASP:OD2	1:Fs:110:ASN:ND2	2.37	0.51
4:Hq:10:GLU:O	4:Hq:14:LYS:HG2	2.11	0.51
1:KA:39:LEU:HD11	1:KA:81:TYR:CD2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KO:26:TYR:O	5:NY:218:TYR:OH	2.28	0.51
1:KO:261:ILE:HD12	1:KO:312:LEU:HD23	1.92	0.51
1:Kq:80:ASN:ND2	1:Kq:154:ASN:HB2	2.25	0.51
1:Kx:286:ASP:HB2	1:Kx:294:HIS:HB2	1.92	0.51
1:LG:174:LYS:O	1:LG:212:LYS:NZ	2.44	0.51
2:Li:167:THR:HG22	2:Li:168:GLU:H	1.76	0.51
2:Ll:69:TYR:HB2	2:Ll:101:ILE:HD12	1.92	0.51
4:MW:10:GLU:O	4:MW:14:LYS:HG2	2.10	0.51
4:Mh:161:ILE:HA	4:Mh:186:ASN:HA	1.91	0.51
1:OT:261:ILE:HD12	1:OT:312:LEU:HD23	1.93	0.51
1:Oq:79:LEU:HD11	1:Oq:305:LEU:HB2	1.92	0.51
1:PK:227:CYS:SG	1:PK:228:GLU:N	2.71	0.51
1:PW:107:ASP:OD2	1:PW:110:ASN:ND2	2.37	0.51
1:Pp:174:LYS:O	1:Pp:212:LYS:NZ	2.43	0.51
1:Pv:80:ASN:ND2	1:Pv:153:PRO:O	2.43	0.51
1:Pv:174:LYS:O	1:Pv:212:LYS:NZ	2.43	0.51
2:Pz:69:TYR:HB2	2:Pz:101:ILE:HD12	1.91	0.51
2:QO:156:ASN:HB3	2:QO:178:PHE:HD2	1.76	0.51
2:Qf:167:THR:HG22	2:Qf:168:GLU:H	1.75	0.51
4:RH:149:LEU:HD13	4:RH:181:VAL:HG21	1.93	0.51
1:TV:261:ILE:HD12	1:TV:312:LEU:HD23	1.93	0.51
1:TY:13:VAL:HA	1:TY:16:ILE:HG22	1.91	0.51
1:Th:181:PHE:HD1	1:Th:184:ILE:HD12	1.75	0.51
1:Ti:165:ILE:HD13	1:Ti:191:LEU:HD23	1.93	0.51
1:Tm:158:LEU:HB3	1:Tm:260:LEU:HD21	1.91	0.51
1:Tn:150:ARG:HE	2:VJ:63:PRO:HB3	1.75	0.51
1:Tr:49:TRP:CZ3	1:Tr:74:SER:HB3	2.46	0.51
1:Tr:80:ASN:ND2	1:Tr:153:PRO:O	2.43	0.51
1:UU:107:ASP:OD2	1:UU:110:ASN:ND2	2.36	0.51
1:UZ:67:ILE:HG13	1:Uc:296:TYR:HE2	1.76	0.51
1:Ud:49:TRP:CZ3	1:Ud:74:SER:HB3	2.45	0.51
1:Ud:80:ASN:ND2	1:Ud:154:ASN:HB2	2.25	0.51
2:VC:165:LYS:HE3	2:VC:168:GLU:HA	1.93	0.51
4:Vw:142:ILE:HG13	4:Vw:152:VAL:HG22	1.93	0.51
4:Vy:43:VAL:HG22	4:Vy:172:ILE:HD11	1.93	0.51
6:YB:393:ASN:HB2	6:YB:396:GLU:HG3	1.92	0.51
6:YE:393:ASN:HB2	6:YE:396:GLU:HG3	1.93	0.51
6:YF:100:LEU:HD12	6:YF:101:PRO:HD2	1.91	0.51
5:Yq:131:ILE:HD13	5:Yq:140:ILE:HD11	1.92	0.51
5:ZD:77:LEU:HB3	5:ZE:110:LEU:HD23	1.91	0.51
5:ZH:127:PRO:O	5:ZH:131:ILE:HG13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZI:59:ILE:HG13	5:ZY:98:PHE:HE2	1.76	0.51
5:ZM:55:ILE:O	5:ZM:59:ILE:HG12	2.10	0.51
5:Zo:55:ILE:O	5:Zo:59:ILE:HG12	2.10	0.51
5:dM:55:ILE:O	5:dM:59:ILE:HG12	2.11	0.51
5:fM:55:ILE:O	5:fM:59:ILE:HG12	2.10	0.51
5:fW:98:PHE:HB3	5:fW:117:GLN:HE22	1.75	0.51
5:fx:75:GLN:NE2	5:fx:79:GLU:OE1	2.44	0.51
1:AB:87:LYS:NZ	2:Bh:53:THR:O	2.41	0.51
1:AM:286:ASP:HB2	1:AM:294:HIS:HB2	1.92	0.51
1:AV:86:TYR:OH	1:AY:55:ALA:O	2.25	0.51
1:Ak:196:GLU:HB3	1:Ak:265:ASN:HD22	1.75	0.51
1:BH:196:GLU:HB3	1:BH:265:ASN:HD22	1.76	0.51
1:BS:26:TYR:O	5:Ec:218:TYR:OH	2.25	0.51
1:BS:77:VAL:HG21	2:Ch:32:LEU:HD23	1.93	0.51
1:BT:286:ASP:HB2	1:BT:294:HIS:HB2	1.92	0.51
1:BZ:270:LYS:HG2	1:BZ:272:LYS:HE3	1.92	0.51
2:Bw:59:ILE:HG22	2:Bw:111:ILE:HG12	1.92	0.51
4:DA:142:ILE:HD11	4:DA:152:VAL:HG23	1.93	0.51
4:DJ:14:LYS:HG3	4:Hx:14:LYS:HG3	1.92	0.51
1:Ew:66:THR:HG22	4:Hb:52:ARG:HB3	1.93	0.51
1:FO:87:LYS:NZ	2:Go:53:THR:O	2.34	0.51
1:Fy:205:VAL:HG12	1:Fy:259:ILE:HG23	1.92	0.51
1:GD:79:LEU:HD11	1:GD:305:LEU:HB2	1.92	0.51
1:GE:135:LEU:HD21	1:GE:255:LEU:HG	1.90	0.51
1:GO:55:ALA:O	1:GR:86:TYR:OH	2.18	0.51
2:Gq:69:TYR:HB2	2:Gq:101:ILE:HD12	1.92	0.51
2:HH:69:TYR:HB2	2:HH:101:ILE:HD12	1.92	0.51
4:Hu:23:LYS:N	4:Hu:67:TYR:OH	2.42	0.51
1:KE:165:ILE:HD13	1:KE:191:LEU:HD23	1.93	0.51
1:KG:85:GLN:NE2	1:KG:298:ASP:OD1	2.40	0.51
1:KP:57:PRO:HB2	1:Ka:84:LEU:HB3	1.93	0.51
1:KR:261:ILE:HD12	1:KR:312:LEU:HD23	1.93	0.51
1:Kj:66:THR:HG22	2:MH:52:CYS:HB3	1.92	0.51
1:Kw:317:LYS:HE2	1:Kw:319:SER:HB2	1.93	0.51
4:MR:93:VAL:HG21	4:MR:117:ILE:HD11	1.90	0.51
4:Mf:10:GLU:O	4:Mf:14:LYS:HG2	2.11	0.51
4:Mi:14:LYS:HG3	4:RY:14:LYS:HG3	1.91	0.51
1:Ob:59:THR:O	4:Vw:61:ASN:ND2	2.44	0.51
1:Ob:216:PRO:HB2	1:Ob:224:ALA:HB1	1.92	0.51
1:Oj:66:THR:HG22	2:QC:52:CYS:SG	2.50	0.51
1:Oy:150:ARG:HE	2:QU:63:PRO:HB3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PD:261:ILE:HD12	1:PD:312:LEU:HD23	1.93	0.51
1:PE:57:PRO:HB2	1:PP:84:LEU:HB3	1.93	0.51
1:PZ:259:ILE:HB	1:PZ:314:VAL:HB	1.92	0.51
1:Pf:80:ASN:ND2	1:Pf:154:ASN:HB2	2.25	0.51
1:Ph:45:LYS:HE2	1:Ph:78:ARG:HD3	1.92	0.51
1:Pi:161:MET:SD	2:Qq:31:LEU:HD21	2.51	0.51
2:QL:166:LEU:HB2	2:QL:170:LEU:HD23	1.93	0.51
2:QT:125:LYS:NZ	2:QT:169:ASP:OD1	2.38	0.51
2:QX:167:THR:HG22	2:QX:168:GLU:H	1.76	0.51
2:QZ:137:LEU:HD11	2:QZ:159:ALA:HB2	1.92	0.51
2:Qg:181:ARG:NH1	2:Qg:182:ALA:O	2.43	0.51
1:TM:55:ALA:O	1:TQ:86:TYR:OH	2.27	0.51
1:TR:80:ASN:ND2	1:TR:153:PRO:O	2.44	0.51
1:Ts:196:GLU:HB3	1:Ts:265:ASN:HD22	1.75	0.51
1:Uk:52:PHE:HB3	4:WA:41:LYS:HE2	1.93	0.51
5:YU:79:GLU:O	5:YU:83:ILE:HG12	2.11	0.51
5:Yy:103:LEU:HD12	5:Yy:113:ILE:HG23	1.92	0.51
5:ZI:126:VAL:HG22	5:ZI:154:LEU:HG	1.92	0.51
5:aS:55:ILE:O	5:aS:59:ILE:HG12	2.11	0.51
5:az:75:GLN:NE2	5:az:79:GLU:OE1	2.44	0.51
5:bQ:103:LEU:HD12	5:bQ:113:ILE:HG23	1.92	0.51
5:bu:55:ILE:O	5:bu:59:ILE:HG12	2.11	0.51
5:cK:55:ILE:O	5:cK:59:ILE:HG12	2.11	0.51
5:cO:55:ILE:O	5:cO:59:ILE:HG12	2.10	0.51
5:dM:55:ILE:HD13	5:ds:116:ALA:HB1	1.93	0.51
5:dQ:98:PHE:HB3	5:dQ:117:GLN:HE22	1.75	0.51
5:dU:55:ILE:HD13	5:eA:116:ALA:HB1	1.93	0.51
5:ep:75:GLN:NE2	5:ep:79:GLU:OE1	2.44	0.51
1:AV:87:LYS:NZ	2:Bu:53:THR:O	2.31	0.51
1:AX:205:VAL:HG12	1:AX:259:ILE:HG23	1.92	0.51
1:Aa:66:THR:HG22	2:Bt:52:CYS:HB3	1.93	0.51
1:BG:86:TYR:OH	1:BH:55:ALA:O	2.19	0.51
1:BR:244:ARG:NH2	1:BU:231:GLU:OE2	2.33	0.51
1:BV:80:ASN:ND2	1:BV:154:ASN:HB2	2.25	0.51
2:Bs:166:LEU:HB2	2:Bs:170:LEU:HD23	1.93	0.51
2:Bt:23:LYS:N	2:Bt:67:TYR:OH	2.44	0.51
2:Bt:58:LYS:HE2	4:Cp:123:ASN:OD1	2.09	0.51
2:CE:167:THR:HG22	2:CE:168:GLU:H	1.76	0.51
2:CG:137:LEU:HD11	2:CG:159:ALA:HB2	1.92	0.51
4:DD:149:LEU:HD13	4:DD:181:VAL:HG21	1.93	0.51
1:Ep:261:ILE:HD12	1:Ep:312:LEU:HD23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ex:59:THR:O	4:MS:61:ASN:ND2	2.44	0.51
1:Ez:66:THR:HG22	2:Gd:52:CYS:HB3	1.93	0.51
1:FF:152:LEU:HD21	4:Hd:112:SER:HA	1.93	0.51
1:FP:165:ILE:HD13	1:FP:191:LEU:HD23	1.93	0.51
1:Fb:48:LYS:HD2	4:Hl:32:LEU:HD23	1.92	0.51
1:Fg:78:ARG:O	1:Fg:154:ASN:ND2	2.41	0.51
1:GE:161:MET:SD	2:HM:31:LEU:HD21	2.51	0.51
1:GI:286:ASP:HB2	1:GI:294:HIS:HB2	1.92	0.51
1:GO:270:LYS:HG2	1:GO:272:LYS:HE3	1.92	0.51
2:HG:65:LYS:HD3	2:HG:87:GLU:HB3	1.91	0.51
4:Hi:149:LEU:HD13	4:Hi:181:VAL:HG21	1.93	0.51
4:Hl:73:VAL:HG21	4:Hl:117:ILE:HD13	1.91	0.51
4:Hx:141:LEU:HD11	4:Hx:165:ALA:HB2	1.91	0.51
1:Jr:164:GLN:HE22	1:Jr:308:ARG:HA	1.76	0.51
1:Ju:66:THR:HG22	2:LN:52:CYS:SG	2.50	0.51
1:KE:66:THR:HG22	2:LX:52:CYS:HB3	1.93	0.51
1:KI:80:ASN:ND2	1:KI:153:PRO:O	2.44	0.51
1:KO:226:SER:OG	1:KZ:226:SER:O	2.29	0.51
1:KY:80:ASN:ND2	1:KY:153:PRO:O	2.30	0.51
1:Ka:181:PHE:HD1	1:Ka:184:ILE:HD12	1.75	0.51
1:Kk:259:ILE:HB	1:Kk:314:VAL:HB	1.92	0.51
1:Ks:45:LYS:HE2	1:Ks:78:ARG:HD3	1.92	0.51
1:LG:47:VAL:HG22	1:LG:76:VAL:HG22	1.93	0.51
1:LG:80:ASN:ND2	1:LG:153:PRO:O	2.43	0.51
2:LQ:167:THR:HG22	2:LQ:168:GLU:H	1.76	0.51
4:MY:166:LEU:HD12	4:MY:180:LYS:HG2	1.92	0.51
4:Mc:44:GLU:OE1	4:Mc:45:PHE:N	2.44	0.51
4:Mi:36:ASN:HD22	1:Pf:195:ASP:H	1.59	0.51
4:Mk:57:ASP:O	1:PU:65:ASN:ND2	2.44	0.51
4:Mm:141:LEU:HD11	4:Mm:165:ALA:HB2	1.91	0.51
1:OV:87:LYS:NZ	2:Pz:53:THR:O	2.39	0.51
1:Oh:307:THR:HG22	4:RI:32:LEU:HB2	1.91	0.51
1:Ok:196:GLU:HB3	1:Ok:265:ASN:HD22	1.74	0.51
1:Oq:152:LEU:HD21	2:QN:105:SER:HA	1.93	0.51
1:PF:49:TRP:CZ3	1:PF:74:SER:HB3	2.46	0.51
1:PY:196:GLU:HB3	1:PY:265:ASN:HD22	1.75	0.51
1:Pl:161:MET:SD	2:RA:31:LEU:HD21	2.51	0.51
1:Po:80:ASN:ND2	1:Po:154:ASN:HB2	2.25	0.51
1:TP:113:LEU:HD23	1:TP:117:GLN:HB2	1.91	0.51
1:TT:257:HIS:CD2	1:TT:318:GLN:HG3	2.45	0.51
1:TV:307:THR:O	1:TV:310:THR:OG1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Tt:152:LEU:HD21	2:VN:105:SER:HA	1.93	0.51
1:Tu:49:TRP:CZ3	1:Tu:74:SER:HB3	2.46	0.51
1:UN:65:ASN:ND2	2:Vm:57:ASP:O	2.43	0.51
1:UX:161:MET:SD	2:Vf:31:LEU:HD21	2.51	0.51
2:VA:166:LEU:HB2	2:VA:170:LEU:HD23	1.93	0.51
2:VO:137:LEU:HD11	2:VO:159:ALA:HB2	1.92	0.51
2:Vf:77:PHE:HD2	4:WM:138:LYS:HG3	1.75	0.51
2:Vj:133:PRO:HG3	2:Vj:161:SER:HA	1.92	0.51
4:WI:142:ILE:HD11	4:WI:152:VAL:HG23	1.93	0.51
5:Yh:111:LYS:NZ	5:Yi:74:LYS:HE3	2.26	0.51
5:Yn:130:GLN:N	5:Yn:130:GLN:OE1	2.41	0.51
5:ZI:55:ILE:HG21	5:ZY:116:ALA:O	2.11	0.51
5:aw:55:ILE:O	5:aw:59:ILE:HG12	2.10	0.51
5:bS:55:ILE:O	5:bS:59:ILE:HG12	2.11	0.51
5:cl:75:GLN:NE2	5:cl:79:GLU:OE1	2.44	0.51
5:dZ:75:GLN:NE2	5:dZ:79:GLU:OE1	2.44	0.51
5:eN:75:GLN:NE2	5:eN:79:GLU:OE1	2.44	0.51
5:eP:74:LYS:HE3	5:eQ:111:LYS:HZ2	1.76	0.51
5:ep:122:VAL:HG11	5:ep:151:LEU:HD13	1.93	0.51
5:er:75:GLN:NE2	5:er:79:GLU:OE1	2.44	0.51
5:fv:75:GLN:NE2	5:fv:79:GLU:OE1	2.44	0.51
1:Aj:80:ASN:ND2	1:Aj:153:PRO:O	2.43	0.51
1:BH:78:ARG:O	1:BH:154:ASN:ND2	2.33	0.51
1:BK:43:TYR:HE2	1:BK:45:LYS:HE2	1.76	0.51
1:BR:67:ILE:HG13	1:BU:296:TYR:HE2	1.75	0.51
1:BZ:286:ASP:HB2	1:BZ:294:HIS:HB2	1.93	0.51
2:CB:69:TYR:HB2	2:CB:101:ILE:HD12	1.93	0.51
2:CD:180:ASN:HB2	4:Cv:186:ASN:HD21	1.76	0.51
2:CS:69:TYR:HB2	2:CS:101:ILE:HD12	1.92	0.51
4:Co:142:ILE:HG13	4:Co:152:VAL:HG22	1.93	0.51
4:DB:10:GLU:O	4:DB:14:LYS:HG2	2.11	0.51
4:DG:161:ILE:HA	4:DG:186:ASN:HA	1.93	0.51
1:Ex:196:GLU:HB3	1:Ex:265:ASN:HD22	1.76	0.51
1:FD:177:MET:HE3	1:FD:181:PHE:HB2	1.92	0.51
1:Fd:77:VAL:HG21	2:HA:32:LEU:HD23	1.93	0.51
1:Fl:181:PHE:HD1	1:Fl:184:ILE:HD12	1.75	0.51
1:Fs:57:PRO:HA	1:Fz:86:TYR:HE1	1.76	0.51
1:Ft:140:SER:HB2	1:Ft:148:GLN:HG2	1.92	0.51
1:Fx:19:GLU:OE1	1:Fx:120:LYS:NZ	2.38	0.51
1:Fx:55:ALA:O	1:Kp:86:TYR:OH	2.26	0.51
1:GP:257:HIS:ND1	1:GP:318:GLN:HG3	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GZ:165:LYS:HE3	2:GZ:168:GLU:HA	1.92	0.51
4:Hv:161:ILE:HA	4:Hv:186:ASN:HA	1.93	0.51
1:Ju:152:LEU:HD21	4:MS:112:SER:HA	1.93	0.51
1:KB:152:LEU:HD21	2:LY:105:SER:HA	1.93	0.51
1:Kt:80:ASN:ND2	1:Kt:153:PRO:O	2.32	0.51
1:LD:286:ASP:HB2	1:LD:294:HIS:HB2	1.93	0.51
2:LZ:156:ASN:HB3	2:LZ:178:PHE:HD2	1.76	0.51
2:Lh:125:LYS:HD2	2:Lh:169:ASP:HA	1.93	0.51
2:MM:57:ASP:OD1	2:MM:115:ASN:ND2	2.44	0.51
4:Ml:149:LEU:HD13	4:Ml:181:VAL:HG21	1.93	0.51
1:Oh:49:TRP:CZ3	1:Oh:74:SER:HB3	2.45	0.51
1:Oo:86:TYR:OH	1:Or:55:ALA:O	2.25	0.51
1:Ou:81:TYR:OH	1:Ou:272:LYS:O	2.18	0.51
1:Pk:157:GLY:N	1:Pk:160:ASN:OD1	2.43	0.51
2:QN:165:LYS:HE3	2:QN:168:GLU:HA	1.92	0.51
2:QW:165:LYS:HE3	2:QW:168:GLU:HA	1.93	0.51
2:Qy:133:PRO:HG3	2:Qy:161:SER:HA	1.93	0.51
1:TV:43:TYR:HE2	1:TV:45:LYS:HE3	1.76	0.51
1:TV:165:ILE:HD13	1:TV:191:LEU:HD23	1.93	0.51
1:Tl:163:GLU:HB2	2:VQ:31:LEU:HD22	1.91	0.51
1:Ts:16:ILE:HD11	1:Ts:120:LYS:HE3	1.91	0.51
1:Tx:80:ASN:ND2	1:Tx:153:PRO:O	2.44	0.51
1:Uh:286:ASP:HB2	1:Uh:294:HIS:HB2	1.93	0.51
2:VM:167:THR:HG22	2:VM:168:GLU:H	1.76	0.51
4:Vt:149:LEU:HD13	4:Vt:181:VAL:HG21	1.92	0.51
4:Vz:51:THR:HG21	4:Vz:180:LYS:HE3	1.93	0.51
6:YD:270:TYR:OH	6:YH:194:ASP:O	2.19	0.51
5:YP:113:ILE:O	5:YP:117:GLN:HG2	2.11	0.51
5:YZ:54:SER:HA	5:ZO:112:ASP:OD2	2.10	0.51
5:Ya:84:ASN:HB2	5:Yb:84:ASN:ND2	2.25	0.51
5:ZE:131:ILE:HD13	5:ZE:140:ILE:HD11	1.93	0.51
5:ZL:103:LEU:HD12	5:ZL:113:ILE:HG23	1.93	0.51
5:ak:55:ILE:HG21	5:bQ:116:ALA:HB2	1.92	0.51
5:bO:55:ILE:O	5:bO:59:ILE:HG12	2.11	0.51
5:cC:55:ILE:O	5:cC:59:ILE:HG12	2.11	0.51
5:cp:75:GLN:NE2	5:cp:79:GLU:OE1	2.44	0.51
5:dE:55:ILE:O	5:dE:59:ILE:HG12	2.11	0.51
5:eT:122:VAL:HG11	5:eT:151:LEU:HD13	1.92	0.51
5:eg:57:GLU:HA	5:eg:60:THR:HG22	1.93	0.51
5:eh:122:VAL:HG11	5:eh:151:LEU:HD13	1.92	0.51
5:ei:57:GLU:HA	5:ei:60:THR:HG22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:es:111:LYS:HZ2	5:fX:74:LYS:HE3	1.76	0.51
5:fG:116:ALA:HB1	5:fm:55:ILE:HD13	1.93	0.51
1:AK:66:THR:HG22	2:Bo:52:CYS:HB3	1.93	0.51
1:AN:165:ILE:HD13	1:AN:191:LEU:HD23	1.93	0.51
1:As:67:ILE:HG13	1:Az:296:TYR:HE2	1.76	0.51
1:Aw:244:ARG:NH2	1:UB:231:GLU:OE2	2.44	0.51
1:BK:196:GLU:HB3	1:BK:265:ASN:HD22	1.74	0.51
2:Bf:47:ASN:ND2	1:TI:54:ASN:OD1	2.43	0.51
2:Bz:165:LYS:HE3	2:Bz:168:GLU:HA	1.92	0.51
2:CD:125:LYS:HD2	2:CD:169:ASP:HA	1.93	0.51
2:CH:69:TYR:HB2	2:CH:101:ILE:HD12	1.92	0.51
4:Cq:43:VAL:HG22	4:Cq:172:ILE:HD11	1.93	0.51
4:Cs:141:LEU:HD11	4:Cs:165:ALA:HB2	1.93	0.51
1:FJ:26:TYR:O	5:IT:218:TYR:OH	2.23	0.51
1:FN:80:ASN:ND2	1:FN:153:PRO:O	2.39	0.51
1:FZ:80:ASN:ND2	1:FZ:153:PRO:O	2.43	0.51
1:Fa:217:TYR:O	1:Fa:225:SER:N	2.37	0.51
1:GK:164:GLN:HE22	1:GK:308:ARG:HA	1.76	0.51
1:GO:286:ASP:HB2	1:GO:294:HIS:HB2	1.93	0.51
1:GS:33:GLN:NE2	1:GS:269:ILE:O	2.41	0.51
2:Gi:23:LYS:N	2:Gi:67:TYR:OH	2.44	0.51
2:Gt:167:THR:HG22	2:Gt:168:GLU:H	1.76	0.51
4:Hu:10:GLU:O	4:Hu:14:LYS:HG2	2.11	0.51
4:Hw:141:LEU:HD11	4:Hw:165:ALA:HB2	1.91	0.51
5:IO:187:ALA:O	5:IO:208:ASN:ND2	2.41	0.51
1:Jn:80:ASN:ND2	1:Jn:153:PRO:O	2.44	0.51
1:KP:217:TYR:O	1:KP:225:SER:N	2.37	0.51
1:KT:80:ASN:ND2	1:KT:153:PRO:O	2.44	0.51
1:Ks:79:LEU:HD11	1:Ks:305:LEU:HB2	1.92	0.51
1:Kw:161:MET:SD	2:ML:31:LEU:HD21	2.51	0.51
2:Lq:167:THR:HG22	2:Lq:168:GLU:H	1.75	0.51
1:Oc:80:ASN:ND2	1:Oc:153:PRO:O	2.44	0.51
1:Oq:57:PRO:HB2	1:Pw:84:LEU:HB3	1.92	0.51
1:Oq:205:VAL:HG12	1:Oq:259:ILE:HG23	1.92	0.51
1:Ot:8:TYR:CD2	1:Ot:93:GLN:HG3	2.46	0.51
1:Ot:165:ILE:HD13	1:Ot:191:LEU:HD23	1.93	0.51
1:PH:77:VAL:HG21	2:Qe:32:LEU:HD23	1.93	0.51
1:PN:107:ASP:OD2	1:PN:110:ASN:ND2	2.31	0.51
1:Pj:143:LYS:HA	2:Qu:39:ARG:HD2	1.93	0.51
1:Pn:257:HIS:CE1	1:Pn:318:GLN:HG3	2.46	0.51
1:Pt:78:ARG:O	1:Pt:154:ASN:ND2	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QM:23:LYS:N	2:QM:67:TYR:OH	2.44	0.51
2:QX:125:LYS:HD2	2:QX:169:ASP:HA	1.93	0.51
4:RT:142:ILE:HD11	4:RT:152:VAL:HG23	1.93	0.51
1:TS:66:THR:HG22	2:Uw:52:CYS:HB3	1.93	0.51
1:Tv:80:ASN:ND2	1:Tv:153:PRO:O	2.33	0.51
1:UH:261:ILE:HD12	1:UH:312:LEU:HD23	1.93	0.51
1:UN:196:GLU:HB3	1:UN:265:ASN:HD22	1.75	0.51
1:Uc:49:TRP:CZ3	1:Uc:74:SER:HB3	2.46	0.51
1:Ud:152:LEU:HD21	4:WP:112:SER:HA	1.93	0.51
4:WL:149:LEU:HD13	4:WL:181:VAL:HG21	1.93	0.51
5:YS:112:ASP:OD1	5:YS:115:GLN:NE2	2.44	0.51
5:ZF:74:LYS:HE3	5:ZG:111:LYS:HD3	1.93	0.51
5:ZJ:99:ASN:HB3	5:ZJ:102:VAL:HG22	1.93	0.51
5:aP:75:GLN:NE2	5:aP:79:GLU:OE1	2.44	0.51
5:am:111:LYS:HZ2	5:ap:74:LYS:HE3	1.76	0.51
5:bo:55:ILE:O	5:bo:59:ILE:HG12	2.10	0.51
5:cE:55:ILE:O	5:cE:59:ILE:HG12	2.11	0.51
5:cI:55:ILE:O	5:cI:59:ILE:HG12	2.11	0.51
5:cg:55:ILE:O	5:cg:59:ILE:HG12	2.11	0.51
5:dq:54:SER:HB3	5:dq:56:ASN:OD1	2.10	0.51
5:fK:55:ILE:O	5:fK:59:ILE:HG12	2.11	0.51
5:fg:55:ILE:O	5:fg:59:ILE:HG12	2.10	0.51
1:An:261:ILE:HD12	1:An:312:LEU:HD23	1.93	0.50
1:BA:196:GLU:HB3	1:BA:265:ASN:HD22	1.76	0.50
1:BF:110:ASN:OD1	1:BH:62:ASN:ND2	2.43	0.50
1:BO:107:ASP:OD2	1:BO:110:ASN:ND2	2.31	0.50
1:BS:317:LYS:HE2	1:BS:319:SER:HB2	1.93	0.50
2:Bm:167:THR:HG22	2:Bm:168:GLU:H	1.76	0.50
2:Bw:77:PHE:HD2	4:Cr:138:LYS:HG3	1.76	0.50
4:Cq:28:ASP:OD2	1:FJ:78:ARG:NH2	2.44	0.50
4:Ct:144:ASN:OD1	4:Ct:148:ALA:N	2.43	0.50
1:FC:43:TYR:HE2	1:FC:45:LYS:HE3	1.76	0.50
1:FC:261:ILE:HD12	1:FC:312:LEU:HD23	1.93	0.50
1:FP:8:TYR:CD2	1:FP:93:GLN:HG3	2.46	0.50
1:FT:80:ASN:ND2	1:FT:153:PRO:O	2.44	0.50
1:Fm:79:LEU:HD11	1:Fm:305:LEU:HB2	1.92	0.50
1:GD:45:LYS:HE2	1:GD:78:ARG:HD3	1.92	0.50
1:GG:194:GLY:HA3	4:Hw:36:ASN:OD1	2.10	0.50
1:GJ:257:HIS:CE1	1:GJ:318:GLN:HG3	2.46	0.50
2:Gv:137:LEU:HD11	2:Gv:159:ALA:HB2	1.92	0.50
2:Gw:69:TYR:HB2	2:Gw:101:ILE:HD12	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HT:63:PRO:HB2	2:HT:85:GLU:HG2	1.93	0.50
4:Hw:149:LEU:HD13	4:Hw:181:VAL:HG21	1.93	0.50
1:Jm:196:GLU:HB3	1:Jm:265:ASN:HD22	1.76	0.50
1:KS:77:VAL:HG21	2:Lp:32:LEU:HD23	1.93	0.50
1:KW:196:GLU:HB3	1:KW:265:ASN:HD22	1.76	0.50
1:Kh:57:PRO:HA	1:Ko:86:TYR:HE1	1.76	0.50
1:Kj:196:GLU:HB3	1:Kj:265:ASN:HD22	1.75	0.50
1:Kl:196:GLU:HB3	1:Kl:265:ASN:HD22	1.76	0.50
1:Kw:77:VAL:HG21	2:ML:32:LEU:HD23	1.93	0.50
2:LO:69:TYR:HB2	2:LO:101:ILE:HD12	1.92	0.50
2:Lj:183:ILE:H	4:Ma:189:MET:HA	1.76	0.50
2:Lk:137:LEU:HD11	2:Lk:159:ALA:HB2	1.92	0.50
2:MJ:133:PRO:HG3	2:MJ:161:SER:HA	1.93	0.50
4:Mm:25:PRO:HB2	4:Mm:27:HIS:CD2	2.46	0.50
4:Mn:10:GLU:O	4:Mn:14:LYS:HG2	2.10	0.50
1:On:87:LYS:NZ	2:QM:53:THR:O	2.30	0.50
1:Ot:66:THR:HG22	2:QM:52:CYS:HB3	1.92	0.50
1:PQ:79:LEU:HD11	1:PQ:305:LEU:HB2	1.92	0.50
1:PW:77:VAL:HG21	2:Qs:32:LEU:HD23	1.94	0.50
1:Po:59:THR:HG21	2:Qu:107:MET:HE3	1.91	0.50
4:RY:10:GLU:O	4:RY:14:LYS:HG2	2.12	0.50
1:TW:177:MET:HE3	1:TW:181:PHE:HB2	1.92	0.50
1:Tw:77:VAL:HG21	2:VT:32:LEU:HD23	1.93	0.50
1:UO:259:ILE:HB	1:UO:314:VAL:HB	1.92	0.50
1:UQ:261:ILE:HD12	1:UQ:312:LEU:HD23	1.92	0.50
1:UU:152:LEU:HD21	4:WN:112:SER:HA	1.93	0.50
1:Ua:161:MET:SD	2:Vp:31:LEU:HD21	2.51	0.50
1:Ui:308:ARG:O	2:Vj:34:ASN:ND2	2.42	0.50
2:VL:125:LYS:HD2	2:VL:169:ASP:HA	1.93	0.50
2:Vp:77:PHE:HD2	4:WR:138:LYS:HE2	1.75	0.50
4:WJ:10:GLU:O	4:WJ:14:LYS:HG2	2.11	0.50
4:WP:149:LEU:HD13	4:WP:181:VAL:HG21	1.93	0.50
4:WQ:25:PRO:HB2	4:WQ:27:HIS:CD2	2.46	0.50
5:Ya:75:GLN:O	5:Ya:79:GLU:HG2	2.10	0.50
5:Yc:119:ARG:HG2	5:Yc:140:ILE:HG22	1.91	0.50
5:Yx:110:LEU:HD22	5:Yy:73:GLU:HG2	1.93	0.50
5:ZD:127:PRO:O	5:ZD:131:ILE:HG13	2.11	0.50
5:Zt:75:GLN:NE2	5:Zt:79:GLU:OE1	2.44	0.50
5:Zy:111:LYS:HZ2	5:aB:74:LYS:HE3	1.76	0.50
5:aA:111:LYS:HZ2	5:aD:74:LYS:HE3	1.75	0.50
5:aR:75:GLN:NE2	5:aR:79:GLU:OE1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ag:111:LYS:HZ2	5:aj:74:LYS:HE3	1.76	0.50
5:ap:75:GLN:NE2	5:ap:79:GLU:OE1	2.44	0.50
5:bW:55:ILE:O	5:bW:59:ILE:HG12	2.11	0.50
5:bc:55:ILE:O	5:bc:59:ILE:HG12	2.11	0.50
5:bs:55:ILE:O	5:bs:59:ILE:HG12	2.11	0.50
5:cY:55:ILE:O	5:cY:59:ILE:HG12	2.10	0.50
5:ch:75:GLN:NE2	5:ch:79:GLU:OE1	2.44	0.50
5:cj:75:GLN:NE2	5:cj:79:GLU:OE1	2.44	0.50
5:cr:75:GLN:NE2	5:cr:79:GLU:OE1	2.44	0.50
5:do:86:ILE:HD11	5:do:118:ARG:HE	1.75	0.50
5:eA:57:GLU:HA	5:eA:60:THR:HG22	1.93	0.50
5:eR:75:GLN:NE2	5:eR:79:GLU:OE1	2.44	0.50
5:eb:122:VAL:HG11	5:eb:151:LEU:HD13	1.92	0.50
5:el:122:VAL:HG11	5:el:151:LEU:HD13	1.93	0.50
5:er:122:VAL:HG11	5:er:151:LEU:HD13	1.93	0.50
5:fc:55:ILE:O	5:fc:59:ILE:HG12	2.11	0.50
5:fv:74:LYS:HE3	5:fw:111:LYS:HZ2	1.76	0.50
1:AF:84:LEU:HD13	1:AQ:57:PRO:HB2	1.92	0.50
1:AJ:80:ASN:ND2	1:AJ:153:PRO:O	2.44	0.50
1:Aa:165:ILE:HD13	1:Aa:191:LEU:HD23	1.93	0.50
1:Ae:80:ASN:ND2	1:Ae:153:PRO:O	2.44	0.50
1:Ak:26:TYR:O	5:Du:218:TYR:OH	2.28	0.50
1:Al:152:LEU:HD21	2:CF:105:SER:HA	1.93	0.50
1:Ar:78:ARG:O	1:Ar:154:ASN:ND2	2.41	0.50
1:At:231:GLU:OE2	1:Fl:244:ARG:NH2	2.44	0.50
1:BQ:143:LYS:HA	2:Cb:39:ARG:HD2	1.93	0.50
1:BS:161:MET:SD	2:Ch:31:LEU:HD21	2.51	0.50
1:Be:49:TRP:CZ3	1:Be:74:SER:HB3	2.47	0.50
2:Bk:69:TYR:HB2	2:Bk:101:ILE:HD12	1.92	0.50
4:Cl:73:VAL:HG21	4:Cl:117:ILE:HD13	1.92	0.50
1:FC:165:ILE:HD13	1:FC:191:LEU:HD23	1.93	0.50
1:FM:79:LEU:HD11	1:FM:305:LEU:HB2	1.92	0.50
1:FP:89:ARG:HH21	1:FP:112:LEU:HD21	1.77	0.50
1:FU:150:ARG:HE	2:Gq:63:PRO:HB3	1.75	0.50
1:FZ:26:TYR:O	5:Ij:218:TYR:OH	2.28	0.50
1:Fh:196:GLU:HB3	1:Fh:265:ASN:HD22	1.76	0.50
1:Fz:87:LYS:NZ	2:HO:53:THR:O	2.28	0.50
1:GG:67:ILE:HG13	1:GJ:296:TYR:HE2	1.76	0.50
1:GM:89:ARG:HH21	1:GM:112:LEU:HD21	1.77	0.50
1:GR:80:ASN:ND2	1:GR:153:PRO:O	2.43	0.50
2:Ge:69:TYR:HB2	2:Ge:101:ILE:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gj:165:LYS:HE3	2:Gj:168:GLU:HA	1.92	0.50
2:HX:57:ASP:OD1	2:HX:115:ASN:ND2	2.44	0.50
4:Hd:142:ILE:HG13	4:Hd:152:VAL:HG22	1.93	0.50
4:Hd:149:LEU:HD13	4:Hd:181:VAL:HG21	1.92	0.50
4:Hj:144:ASN:OD1	4:Hj:148:ALA:N	2.43	0.50
4:Ht:14:LYS:HG3	4:Mj:14:LYS:HG3	1.91	0.50
1:Jm:59:THR:O	4:RH:61:ASN:ND2	2.44	0.50
1:Ke:196:GLU:HB3	1:Ke:265:ASN:HD22	1.76	0.50
1:Kh:77:VAL:HG21	2:MD:32:LEU:HD23	1.93	0.50
2:Lh:165:LYS:HE3	2:Lh:168:GLU:HA	1.93	0.50
4:Mh:149:LEU:HD13	4:Mh:181:VAL:HG21	1.93	0.50
1:Oe:65:ASN:ND2	4:RJ:57:ASP:O	2.43	0.50
1:Og:307:THR:O	1:Og:310:THR:OG1	2.25	0.50
1:PC:49:TRP:CZ3	1:PC:74:SER:HB3	2.46	0.50
1:PC:80:ASN:ND2	1:PC:153:PRO:O	2.43	0.50
1:PS:261:ILE:HD12	1:PS:312:LEU:HD23	1.93	0.50
1:Pl:84:LEU:HD13	1:Po:57:PRO:HB2	1.93	0.50
1:Po:86:TYR:OH	1:Pp:55:ALA:O	2.19	0.50
2:QM:181:ARG:HG2	2:QM:182:ALA:H	1.76	0.50
4:RK:51:THR:HG21	4:RK:180:LYS:HE3	1.93	0.50
4:RL:10:GLU:O	4:RL:14:LYS:HG2	2.10	0.50
1:Tc:165:ILE:HD13	1:Tc:191:LEU:HD23	1.92	0.50
1:Tr:89:ARG:HH21	1:Tr:112:LEU:HD21	1.77	0.50
1:Tv:261:ILE:HD12	1:Tv:312:LEU:HD23	1.93	0.50
1:UM:79:LEU:HD11	1:UM:305:LEU:HB2	1.94	0.50
1:UY:33:GLN:NE2	1:UY:269:ILE:O	2.35	0.50
1:Ug:205:VAL:HG12	1:Ug:259:ILE:HG23	1.93	0.50
1:Uk:174:LYS:O	1:Uk:212:LYS:NZ	2.43	0.50
2:VG:137:LEU:HD11	2:VG:159:ALA:HB2	1.94	0.50
2:VJ:137:LEU:HD11	2:VJ:159:ALA:HB2	1.93	0.50
2:Vm:69:TYR:HB2	2:Vm:101:ILE:HD12	1.94	0.50
4:Vz:142:ILE:HD11	4:Vz:152:VAL:HG23	1.92	0.50
5:YN:66:VAL:O	5:YN:70:GLU:HG2	2.10	0.50
5:YQ:63:LEU:HB2	5:Yg:147:ILE:HD12	1.93	0.50
5:YQ:157:VAL:HG22	5:YT:133:ALA:HB1	1.93	0.50
5:YS:130:GLN:HE22	5:YU:157:VAL:HG11	1.77	0.50
5:ZS:95:SER:HB3	5:ZS:98:PHE:CE1	2.46	0.50
5:ai:98:PHE:HB3	5:ai:117:GLN:HE22	1.76	0.50
5:bM:55:ILE:O	5:bM:59:ILE:HG12	2.11	0.50
5:cU:55:ILE:O	5:cU:59:ILE:HG12	2.11	0.50
5:cn:75:GLN:NE2	5:cn:79:GLU:OE1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dG:55:ILE:O	5:dG:59:ILE:HG12	2.10	0.50
5:ej:75:GLN:NE2	5:ej:79:GLU:OE1	2.43	0.50
5:el:75:GLN:NE2	5:el:79:GLU:OE1	2.44	0.50
5:fe:55:ILE:O	5:fe:59:ILE:HG12	2.11	0.50
5:fo:86:ILE:HD11	5:fo:118:ARG:HE	1.75	0.50
1:AJ:152:LEU:HD21	4:Cm:112:SER:HA	1.93	0.50
1:AQ:54:ASN:OD1	2:Bj:47:ASN:ND2	2.38	0.50
1:Aj:89:ARG:HH21	1:Aj:112:LEU:HD21	1.77	0.50
1:Av:257:HIS:CE1	1:Av:318:GLN:HG3	2.47	0.50
1:BL:86:TYR:OH	1:UQ:55:ALA:O	2.26	0.50
1:BU:196:GLU:HB3	1:BU:265:ASN:HD22	1.77	0.50
2:Bp:69:TYR:HB2	2:Bp:101:ILE:HD12	1.94	0.50
2:Bt:181:ARG:HG2	2:Bt:182:ALA:H	1.76	0.50
1:Eu:84:LEU:HD13	1:FF:57:PRO:HB2	1.92	0.50
1:FM:67:ILE:HG13	1:GS:296:TYR:HE2	1.76	0.50
1:Fc:261:ILE:HD12	1:Fc:312:LEU:HD23	1.93	0.50
1:GF:143:LYS:HA	2:HQ:39:ARG:HD2	1.93	0.50
1:GH:26:TYR:O	5:JR:218:TYR:OH	2.25	0.50
1:GH:317:LYS:HE2	1:GH:319:SER:HB2	1.93	0.50
1:GJ:196:GLU:HB3	1:GJ:265:ASN:HD22	1.77	0.50
2:Gk:156:ASN:HB3	2:Gk:178:PHE:HD2	1.76	0.50
2:Gl:59:ILE:HG22	2:Gl:111:ILE:HG12	1.92	0.50
2:HW:136:LYS:HD3	2:HW:155:VAL:HG11	1.94	0.50
4:Hh:10:GLU:O	4:Hh:14:LYS:HG2	2.11	0.50
4:Hj:166:LEU:HD12	4:Hj:180:LYS:HG2	1.92	0.50
4:Hp:142:ILE:HD11	4:Hp:152:VAL:HG23	1.93	0.50
1:Jn:261:ILE:HD12	1:Jn:312:LEU:HD23	1.94	0.50
1:Jq:286:ASP:HB2	1:Jq:294:HIS:HB2	1.92	0.50
1:KE:8:TYR:CD2	1:KE:93:GLN:HG3	2.46	0.50
1:KE:89:ARG:HH21	1:KE:112:LEU:HD21	1.77	0.50
1:KV:78:ARG:O	1:KV:154:ASN:ND2	2.41	0.50
1:KZ:257:HIS:CE1	1:KZ:318:GLN:HG3	2.47	0.50
1:Km:13:VAL:HA	1:Km:16:ILE:HG22	1.94	0.50
1:LE:257:HIS:ND1	1:LE:318:GLN:HG3	2.26	0.50
2:LX:181:ARG:HG2	2:LX:182:ALA:H	1.76	0.50
2:ML:77:PHE:HD2	4:Mn:138:LYS:HE2	1.76	0.50
4:Mk:142:ILE:HD11	4:Mk:152:VAL:HG23	1.94	0.50
1:OT:85:GLN:HE22	1:OV:289:SER:HB2	1.77	0.50
1:PC:89:ARG:HH21	1:PC:112:LEU:HD21	1.77	0.50
1:PG:261:ILE:HD12	1:PG:312:LEU:HD23	1.93	0.50
1:Pl:77:VAL:HG21	2:RA:32:LEU:HD23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QR:137:LEU:HD11	2:QR:159:ALA:HB2	1.94	0.50
1:Th:132:HIS:HA	1:Th:254:LEU:HD13	1.93	0.50
1:Tm:80:ASN:ND2	1:Tm:153:PRO:O	2.44	0.50
1:UI:196:GLU:HB3	1:UI:265:ASN:HD22	1.76	0.50
1:UL:57:PRO:HA	1:US:86:TYR:HE1	1.76	0.50
1:UP:79:LEU:HD11	1:UP:305:LEU:HB2	1.92	0.50
1:UY:174:LYS:O	1:UY:212:LYS:NZ	2.45	0.50
1:Um:49:TRP:CZ3	1:Um:74:SER:HB3	2.47	0.50
2:Us:165:LYS:HE3	2:Us:168:GLU:HA	1.92	0.50
2:VD:156:ASN:HB3	2:VD:178:PHE:HD2	1.76	0.50
5:Yi:128:ILE:HA	5:Yi:131:ILE:HD12	1.92	0.50
5:Yv:99:ASN:HB3	5:Yv:102:VAL:HG22	1.93	0.50
5:Yz:99:ASN:HB3	5:Yz:102:VAL:HG22	1.94	0.50
5:ZY:55:ILE:O	5:ZY:59:ILE:HG12	2.10	0.50
5:aC:111:LYS:HZ2	5:aF:74:LYS:HE3	1.77	0.50
5:bE:86:ILE:HD11	5:bE:118:ARG:HE	1.76	0.50
5:bQ:55:ILE:O	5:bQ:59:ILE:HG12	2.11	0.50
5:bi:103:LEU:HD12	5:bi:113:ILE:HG23	1.92	0.50
5:bw:55:ILE:O	5:bw:59:ILE:HG12	2.12	0.50
5:cA:103:LEU:HD12	5:cA:113:ILE:HG23	1.91	0.50
5:cM:55:ILE:O	5:cM:59:ILE:HG12	2.11	0.50
5:cq:111:LYS:HZ2	5:ct:74:LYS:HE3	1.76	0.50
5:dG:86:ILE:HD11	5:dG:118:ARG:HE	1.75	0.50
5:eP:75:GLN:NE2	5:eP:79:GLU:OE1	2.44	0.50
5:eT:75:GLN:NE2	5:eT:79:GLU:OE1	2.44	0.50
5:eV:75:GLN:NE2	5:eV:79:GLU:OE1	2.44	0.50
5:eV:122:VAL:HG11	5:eV:151:LEU:HD13	1.92	0.50
5:fr:75:GLN:NE2	5:fr:79:GLU:OE1	2.44	0.50
5:ft:75:GLN:NE2	5:ft:79:GLU:OE1	2.44	0.50
1:AC:50:ASP:OD1	1:AC:51:ALA:N	2.42	0.50
1:AJ:261:ILE:HD12	1:AJ:312:LEU:HD23	1.94	0.50
1:AX:152:LEU:HD21	2:Bu:105:SER:HA	1.93	0.50
1:Aa:8:TYR:CD2	1:Aa:93:GLN:HG3	2.46	0.50
1:Aw:181:PHE:HD1	1:Aw:184:ILE:HD12	1.75	0.50
1:BG:259:ILE:HB	1:BG:314:VAL:HB	1.92	0.50
1:BJ:205:VAL:HG12	1:BJ:259:ILE:HG23	1.92	0.50
2:CB:180:ASN:O	3:Cj:242:ASN:ND2	2.45	0.50
2:CD:165:LYS:HE3	2:CD:168:GLU:HA	1.93	0.50
2:Cf:77:PHE:HD2	4:DI:138:LYS:HG3	1.75	0.50
1:FB:286:ASP:HB2	1:FB:294:HIS:HB2	1.92	0.50
1:Fb:49:TRP:CZ3	1:Fb:74:SER:HB3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fi:84:LEU:HB3	1:Ka:57:PRO:HB2	1.92	0.50
1:Fj:26:TYR:O	5:It:218:TYR:OH	2.21	0.50
1:Fu:66:THR:HG22	2:HS:52:CYS:HB3	1.92	0.50
1:GD:87:LYS:NZ	2:HE:53:THR:O	2.35	0.50
1:KB:67:ILE:HG13	1:LH:296:TYR:HE2	1.76	0.50
1:KQ:49:TRP:CZ3	1:KQ:74:SER:HB3	2.46	0.50
1:Kd:261:ILE:HD12	1:Kd:312:LEU:HD23	1.93	0.50
1:Kh:161:MET:SD	2:MD:31:LEU:HD21	2.51	0.50
2:LW:166:LEU:HB2	2:LW:170:LEU:HD23	1.93	0.50
2:Ld:165:LYS:HE3	2:Ld:168:GLU:HA	1.92	0.50
2:Ly:125:LYS:HD2	2:Ly:169:ASP:HA	1.94	0.50
4:MS:149:LEU:HD13	4:MS:181:VAL:HG21	1.93	0.50
1:OZ:194:GLY:HA3	2:QB:36:ILE:HG23	1.94	0.50
1:Og:165:ILE:HD13	1:Og:191:LEU:HD23	1.93	0.50
1:PE:152:LEU:HD21	2:QY:105:SER:HA	1.93	0.50
1:PL:67:ILE:HG13	1:PS:296:TYR:HE2	1.76	0.50
1:PO:257:HIS:CE1	1:PO:318:GLN:HG3	2.47	0.50
1:PY:66:THR:HG22	2:Qw:52:CYS:HB3	1.92	0.50
1:PY:110:ASN:OD1	1:Pa:62:ASN:ND2	2.43	0.50
1:Pf:86:TYR:OH	1:Ph:55:ALA:O	2.16	0.50
1:Pm:196:GLU:OE1	1:Pm:265:ASN:ND2	2.41	0.50
1:Pt:257:HIS:ND1	1:Pt:318:GLN:HG3	2.26	0.50
1:Px:49:TRP:CZ3	1:Px:74:SER:HB3	2.47	0.50
2:QU:69:TYR:HB2	2:QU:101:ILE:HD12	1.93	0.50
2:Qa:69:TYR:HB2	2:Qa:101:ILE:HD12	1.92	0.50
2:Qf:125:LYS:NZ	2:Qf:169:ASP:OD1	2.39	0.50
2:Qu:133:PRO:HG3	2:Qu:161:SER:HA	1.92	0.50
2:Qx:69:TYR:HB2	2:Qx:101:ILE:HD12	1.94	0.50
4:RZ:161:ILE:HA	4:RZ:186:ASN:HA	1.93	0.50
1:TI:261:ILE:HD12	1:TI:312:LEU:HD23	1.93	0.50
1:TN:84:LEU:HD13	1:TY:57:PRO:HB2	1.92	0.50
1:Tf:79:LEU:HD11	1:Tf:305:LEU:HB2	1.92	0.50
1:Ti:66:THR:HG22	2:VB:52:CYS:HB3	1.92	0.50
1:UE:107:ASP:OD2	1:UE:110:ASN:ND2	2.29	0.50
1:UZ:157:GLY:N	1:UZ:160:ASN:OD1	2.43	0.50
1:Uc:257:HIS:CE1	1:Uc:318:GLN:HG3	2.46	0.50
1:Ui:257:HIS:ND1	1:Ui:318:GLN:HG3	2.26	0.50
6:Xz:393:ASN:HB2	6:Xz:396:GLU:HG3	1.93	0.50
5:Yp:99:ASN:HB3	5:Yp:102:VAL:HG22	1.93	0.50
5:ZF:99:ASN:HB3	5:ZF:102:VAL:HG22	1.94	0.50
5:Zy:55:ILE:O	5:Zy:59:ILE:HG12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ag:62:GLU:OE1	5:bM:97:HIS:NE2	2.44	0.50
5:ay:62:GLU:OE1	5:be:97:HIS:NE2	2.44	0.50
5:bB:75:GLN:NE2	5:bB:79:GLU:OE1	2.45	0.50
5:be:98:PHE:HB3	5:be:117:GLN:HE22	1.77	0.50
5:bj:75:GLN:NE2	5:bj:79:GLU:OE1	2.44	0.50
5:cD:75:GLN:NE2	5:cD:79:GLU:OE1	2.44	0.50
5:cW:55:ILE:O	5:cW:59:ILE:HG12	2.11	0.50
5:ct:75:GLN:NE2	5:ct:79:GLU:OE1	2.44	0.50
5:en:75:GLN:NE2	5:en:79:GLU:OE1	2.44	0.50
5:fc:86:ILE:HD11	5:fc:118:ARG:HE	1.76	0.50
1:AN:43:TYR:HE2	1:AN:45:LYS:HE3	1.76	0.50
1:Ah:101:SER:OG	1:Ah:102:ASP:N	2.45	0.50
1:Ah:244:ARG:NH1	1:Al:210:SER:OG	2.45	0.50
1:Ao:77:VAL:HG21	2:CL:32:LEU:HD23	1.93	0.50
1:Az:261:ILE:HD12	1:Az:312:LEU:HD23	1.93	0.50
1:BD:57:PRO:HA	1:BK:86:TYR:HE1	1.76	0.50
1:BX:89:ARG:HH21	1:BX:112:LEU:HD21	1.77	0.50
2:By:137:LEU:HD11	2:By:159:ALA:HB2	1.94	0.50
2:CF:180:ASN:O	4:Cw:186:ASN:ND2	2.44	0.50
2:CH:140:ASN:OD1	2:CH:144:GLU:N	2.42	0.50
2:Ce:63:PRO:HB2	2:Ce:85:GLU:HG2	1.93	0.50
2:Ce:69:TYR:HB2	2:Ce:101:ILE:HD12	1.94	0.50
4:Cr:161:ILE:HA	4:Cr:186:ASN:HA	1.93	0.50
4:Ct:149:LEU:HD13	4:Ct:181:VAL:HG21	1.93	0.50
1:Ep:271:PHE:CD2	1:Ep:273:PRO:HD3	2.47	0.50
1:FD:205:VAL:HG12	1:FD:259:ILE:HG23	1.94	0.50
1:Fi:231:GLU:OE2	1:Ka:244:ARG:NH2	2.44	0.50
1:Fk:87:LYS:NZ	4:Ho:53:THR:O	2.38	0.50
1:Fx:13:VAL:HA	1:Fx:16:ILE:HG22	1.94	0.50
2:Gs:180:ASN:HB2	4:Hk:186:ASN:HD21	1.76	0.50
2:HB:167:THR:HG22	2:HB:168:GLU:H	1.76	0.50
4:Hf:43:VAL:HG22	4:Hf:172:ILE:HD11	1.93	0.50
1:Js:152:LEU:HD21	2:LT:105:SER:HA	1.92	0.50
1:Kk:152:LEU:HD21	4:Mh:112:SER:HA	1.94	0.50
1:Kn:205:VAL:HG12	1:Kn:259:ILE:HG23	1.92	0.50
1:Kp:66:THR:HG22	2:Lx:52:CYS:HB3	1.93	0.50
1:Ku:33:GLN:NE2	1:Ku:269:ILE:O	2.35	0.50
1:Ky:49:TRP:CZ3	1:Ky:74:SER:HB3	2.47	0.50
2:ML:136:LYS:HD3	2:ML:155:VAL:HG11	1.94	0.50
1:Og:43:TYR:HE2	1:Og:45:LYS:HE3	1.76	0.50
1:Oh:66:THR:HG22	4:RI:52:ARG:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Oj:152:LEU:HD21	4:RH:112:SER:HA	1.93	0.50
1:Oq:67:ILE:HG13	1:Pw:296:TYR:HE2	1.76	0.50
1:Oq:86:TYR:OH	1:Tc:55:ALA:O	2.29	0.50
1:PA:101:SER:OG	1:PA:102:ASP:N	2.45	0.50
1:PI:80:ASN:ND2	1:PI:153:PRO:O	2.44	0.50
1:PW:57:PRO:HA	1:Pd:86:TYR:HE1	1.76	0.50
1:PX:140:SER:HB2	1:PX:148:GLN:HG2	1.92	0.50
1:PZ:66:THR:HG22	4:RV:52:ARG:HB3	1.92	0.50
1:Pj:174:LYS:O	1:Pj:212:LYS:NZ	2.45	0.50
2:Qn:125:LYS:HD2	2:Qn:169:ASP:HA	1.94	0.50
4:RE:73:VAL:HG21	4:RE:117:ILE:HD13	1.92	0.50
4:Rb:25:PRO:HB2	4:Rb:27:HIS:CD2	2.46	0.50
1:TV:70:ILE:HD11	1:TZ:86:TYR:HD2	1.75	0.50
1:Ts:22:ASP:OD1	5:XC:213:ARG:NE	2.45	0.50
1:UA:78:ARG:O	1:UA:154:ASN:ND2	2.32	0.50
1:UL:161:MET:SD	2:Vh:31:LEU:HD21	2.51	0.50
5:YR:59:ILE:HG23	5:Yj:147:ILE:CG1	2.39	0.50
5:Yg:55:ILE:HG22	5:Yy:115:GLN:HE21	1.76	0.50
5:Yg:58:ARG:NE	5:Yy:106:LYS:HG3	2.26	0.50
5:Yh:113:ILE:O	5:Yh:117:GLN:HG2	2.11	0.50
5:Yx:99:ASN:HB3	5:Yx:102:VAL:HG22	1.94	0.50
5:ZC:154:LEU:HD13	5:ZD:134:ILE:HD11	1.93	0.50
5:ZL:112:ASP:OD1	5:ZL:115:GLN:NE2	2.44	0.50
5:ZN:84:ASN:HD21	5:ZO:84:ASN:HB2	1.76	0.50
5:aF:75:GLN:NE2	5:aF:79:GLU:OE1	2.44	0.50
5:aN:75:GLN:NE2	5:aN:79:GLU:OE1	2.44	0.50
5:aV:75:GLN:NE2	5:aV:79:GLU:OE1	2.44	0.50
5:bD:75:GLN:NE2	5:bD:79:GLU:OE1	2.44	0.50
5:ba:55:ILE:O	5:ba:59:ILE:HG12	2.11	0.50
5:bl:75:GLN:NE2	5:bl:79:GLU:OE1	2.44	0.50
5:cB:75:GLN:NE2	5:cB:79:GLU:OE1	2.44	0.50
5:cG:55:ILE:O	5:cG:59:ILE:HG12	2.11	0.50
5:db:75:GLN:NE2	5:db:79:GLU:OE1	2.44	0.50
5:dv:103:LEU:HD12	5:dv:113:ILE:HG23	1.94	0.50
5:gA:86:ILE:HD11	5:gA:118:ARG:HE	1.76	0.50
1:AN:164:GLN:HE22	1:AN:308:ARG:HA	1.75	0.50
1:AP:109:ASN:O	4:Co:24:ASN:ND2	2.45	0.50
1:Ap:80:ASN:ND2	1:Ap:153:PRO:O	2.44	0.50
1:BO:45:LYS:HE2	1:BO:78:ARG:HD3	1.92	0.50
2:CM:167:THR:HG22	2:CM:168:GLU:H	1.75	0.50
2:Ch:136:LYS:HD3	2:Ch:155:VAL:HG11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Co:61:ASN:ND2	1:TQ:59:THR:O	2.44	0.50
4:Cy:44:GLU:OE1	4:Cy:45:PHE:N	2.44	0.50
1:Er:50:ASP:OD1	1:Er:51:ALA:N	2.42	0.50
1:Ew:149:LYS:HZ1	1:Jv:59:THR:HG1	1.58	0.50
1:Ey:152:LEU:HD21	4:Hb:112:SER:HA	1.93	0.50
1:FC:164:GLN:HE22	1:FC:308:ARG:HA	1.75	0.50
1:FD:66:THR:HG22	4:He:52:ARG:HD2	1.94	0.50
1:FQ:60:ILE:HG23	1:KF:290:THR:HG22	1.94	0.50
1:Fo:261:ILE:HD12	1:Fo:312:LEU:HD23	1.93	0.50
1:Fu:196:GLU:HB3	1:Fu:265:ASN:HD22	1.75	0.50
2:HI:125:LYS:HD2	2:HI:169:ASP:HA	1.94	0.50
2:HJ:125:LYS:HD2	2:HJ:169:ASP:HA	1.94	0.50
2:HQ:133:PRO:HG3	2:HQ:161:SER:HA	1.93	0.50
3:HY:101:TYR:CD2	3:HY:102:THR:HG23	2.47	0.50
4:Hi:144:ASN:OD1	4:Hi:148:ALA:N	2.43	0.50
1:Je:271:PHE:CD2	1:Je:273:PRO:HD3	2.47	0.50
1:Jn:49:TRP:CZ3	1:Jn:74:SER:HB3	2.47	0.50
1:Jr:43:TYR:HE2	1:Jr:45:LYS:HE3	1.76	0.50
1:Jr:165:ILE:HD13	1:Jr:191:LEU:HD23	1.93	0.50
1:Js:177:MET:HE3	1:Js:181:PHE:HB2	1.92	0.50
1:KN:49:TRP:CZ3	1:KN:74:SER:HB3	2.46	0.50
1:KV:308:ARG:HG3	2:QW:34:ASN:HD22	1.76	0.50
1:KW:43:TYR:HE2	1:KW:45:LYS:HE2	1.77	0.50
2:LX:183:ILE:HD12	4:MT:188:ALA:HB3	1.94	0.50
2:MF:166:LEU:HB2	2:MF:170:LEU:HD23	1.94	0.50
4:MW:141:LEU:HD11	4:MW:165:ALA:HB2	1.93	0.50
1:Oa:66:THR:HG22	4:RF:52:ARG:HB3	1.93	0.50
1:Oc:261:ILE:HD12	1:Oc:312:LEU:HD23	1.94	0.50
1:Ox:80:ASN:ND2	1:Ox:153:PRO:O	2.44	0.50
1:PD:22:ASP:OD1	5:SN:213:ARG:NE	2.45	0.50
1:PD:226:SER:OG	1:PO:226:SER:O	2.29	0.50
1:PX:8:TYR:CD2	1:PX:93:GLN:HG3	2.47	0.50
1:Pb:13:VAL:HA	1:Pb:16:ILE:HG22	1.94	0.50
1:Pt:308:ARG:O	2:Qu:34:ASN:ND2	2.42	0.50
1:Px:257:HIS:CE1	1:Px:318:GLN:HG3	2.47	0.50
2:QU:137:LEU:HD11	2:QU:159:ALA:HB2	1.93	0.50
4:RK:26:GLN:NE2	4:RK:28:ASP:OD1	2.45	0.50
4:Ra:149:LEU:HD13	4:Ra:181:VAL:HG21	1.93	0.50
1:Te:87:LYS:NZ	2:VD:53:THR:O	2.33	0.50
1:Tg:80:ASN:ND2	1:Tg:154:ASN:HB2	2.27	0.50
1:Tz:78:ARG:O	1:Tz:154:ASN:ND2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UA:43:TYR:HE2	1:UA:45:LYS:HE2	1.77	0.50
1:UB:307:THR:HG22	4:WF:32:LEU:HB2	1.94	0.50
1:UG:29:PHE:O	5:XQ:223:ARG:NH2	2.45	0.50
1:UK:55:ALA:O	1:UN:86:TYR:OH	2.23	0.50
1:Ud:147:ASN:H	4:WP:88:HIS:HD2	1.60	0.50
1:Ud:296:TYR:HE2	1:Ue:67:ILE:HG13	1.76	0.50
3:Vr:101:TYR:CD2	3:Vr:102:THR:HG23	2.47	0.50
4:Vz:26:GLN:NE2	4:Vz:28:ASP:OD1	2.45	0.50
4:WA:141:LEU:HD11	4:WA:165:ALA:HB2	1.93	0.50
4:WO:161:ILE:HA	4:WO:186:ASN:HA	1.93	0.50
6:YG:35:ASP:OD2	6:YG:329:TYR:OH	2.20	0.50
5:Yb:103:LEU:HD12	5:Yb:113:ILE:HG23	1.94	0.50
5:Yv:127:PRO:O	5:Yv:131:ILE:HG13	2.12	0.50
5:ZL:127:PRO:O	5:ZL:131:ILE:HG13	2.11	0.50
5:Zv:75:GLN:NE2	5:Zv:79:GLU:OE1	2.44	0.50
5:av:103:LEU:HD12	5:av:113:ILE:HG23	1.94	0.50
5:bA:55:ILE:O	5:bA:59:ILE:HG12	2.12	0.50
5:be:55:ILE:O	5:be:59:ILE:HG12	2.12	0.50
5:cA:55:ILE:O	5:cA:59:ILE:HG12	2.12	0.50
5:cd:75:GLN:NE2	5:cd:79:GLU:OE1	2.44	0.50
5:ci:55:ILE:O	5:ci:59:ILE:HG12	2.11	0.50
5:ck:55:ILE:O	5:ck:59:ILE:HG12	2.12	0.50
5:dY:111:LYS:HZ2	5:db:74:LYS:HE3	1.77	0.50
5:eK:57:GLU:HA	5:eK:60:THR:HG22	1.94	0.50
5:es:98:PHE:HB3	5:es:117:GLN:HE22	1.75	0.50
5:ex:75:GLN:NE2	5:ex:79:GLU:OE1	2.44	0.50
5:ez:75:GLN:NE2	5:ez:79:GLU:OE1	2.44	0.50
5:fH:74:LYS:HE3	5:fI:111:LYS:HZ1	1.76	0.50
5:fI:55:ILE:O	5:fI:59:ILE:HG12	2.11	0.50
5:fL:75:GLN:NE2	5:fL:79:GLU:OE1	2.44	0.50
5:fQ:86:ILE:HD11	5:fQ:118:ARG:HE	1.76	0.50
5:fp:75:GLN:NE2	5:fp:79:GLU:OE1	2.44	0.50
1:AI:196:GLU:HB3	1:AI:265:ASN:HD22	1.76	0.50
1:AW:107:ASP:OD2	1:AW:110:ASN:ND2	2.28	0.50
1:Ar:157:GLY:N	1:Ar:160:ASN:OD1	2.38	0.50
1:BE:8:TYR:CD2	1:BE:93:GLN:HG3	2.47	0.50
1:BI:13:VAL:HA	1:BI:16:ILE:HG22	1.94	0.50
1:BS:84:LEU:HD13	1:BV:57:PRO:HB2	1.93	0.50
1:BV:164:GLN:HE22	1:BV:308:ARG:HA	1.76	0.50
2:Bv:156:ASN:HB3	2:Bv:178:PHE:HD2	1.76	0.50
2:Cb:133:PRO:HG3	2:Cb:161:SER:HA	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DG:57:ASP:O	1:Fq:65:ASN:ND2	2.45	0.50
4:DI:25:PRO:HB2	4:DI:27:HIS:CD2	2.46	0.50
1:FD:152:LEU:HD21	2:Ge:105:SER:HA	1.92	0.50
1:FY:49:TRP:CZ3	1:FY:74:SER:HB3	2.46	0.50
1:FZ:22:ASP:OD1	5:Ij:213:ARG:NE	2.45	0.50
1:Fh:41:MET:HE2	1:Fh:83:LYS:HB3	1.94	0.50
1:Fh:67:ILE:HG13	1:Fo:296:TYR:HE2	1.76	0.50
1:Fv:259:ILE:HB	1:Fv:314:VAL:HB	1.92	0.50
1:GA:66:THR:HG22	2:HI:52:CYS:HB3	1.93	0.50
1:GF:174:LYS:O	1:GF:212:LYS:NZ	2.45	0.50
1:GJ:49:TRP:CZ3	1:GJ:74:SER:HB3	2.47	0.50
1:GT:257:HIS:CE1	1:GT:318:GLN:HG3	2.47	0.50
2:Gb:23:LYS:N	2:Gb:67:TYR:OH	2.45	0.50
2:HV:76:SER:HB3	2:HV:87:GLU:HG2	1.94	0.50
4:Hx:25:PRO:HB2	4:Hx:27:HIS:CD2	2.46	0.50
1:Jo:244:ARG:NH1	1:Js:210:SER:OG	2.40	0.50
1:Jp:65:ASN:ND2	4:MU:57:ASP:O	2.43	0.50
1:Jw:59:THR:O	4:MW:61:ASN:ND2	2.44	0.50
1:KL:101:SER:OG	1:KL:102:ASP:N	2.45	0.50
1:KL:107:ASP:OD2	1:KL:110:ASN:ND2	2.28	0.50
1:KO:22:ASP:OD1	5:NY:213:ARG:NE	2.45	0.50
1:Ko:43:TYR:HE2	1:Ko:45:LYS:HE2	1.76	0.50
1:LA:66:THR:HG22	2:MI:52:CYS:HB3	1.94	0.50
1:LC:161:MET:SD	2:Lc:31:LEU:HD21	2.52	0.50
2:LM:180:ASN:O	2:LN:180:ASN:ND2	2.39	0.50
2:LT:69:TYR:HB2	2:LT:101:ILE:HD12	1.94	0.50
4:MP:149:LEU:HD13	4:MP:181:VAL:HG21	1.92	0.50
1:OT:271:PHE:CD2	1:OT:273:PRO:HD3	2.47	0.50
1:Os:132:HIS:HA	1:Os:254:LEU:HD13	1.93	0.50
1:PW:161:MET:SD	2:Qs:31:LEU:HD21	2.51	0.50
1:PX:79:LEU:HD11	1:PX:305:LEU:HB2	1.94	0.50
1:PZ:86:TYR:OH	1:Pa:55:ALA:O	2.19	0.50
1:Pp:66:THR:HG22	2:Qx:52:CYS:HB3	1.94	0.50
4:RE:149:LEU:HD13	4:RE:181:VAL:HG21	1.92	0.50
4:RL:141:LEU:HD11	4:RL:165:ALA:HB2	1.93	0.50
1:TP:66:THR:HG22	4:Vu:52:ARG:HB3	1.93	0.50
1:Tg:110:ASN:ND2	1:Uh:62:ASN:OD1	2.45	0.50
1:UL:77:VAL:HG21	2:Vh:32:LEU:HD23	1.93	0.50
1:UN:66:THR:HG22	2:Vl:52:CYS:HB3	1.92	0.50
1:US:43:TYR:HE2	1:US:45:LYS:HE2	1.76	0.50
2:VB:181:ARG:HG2	2:VB:182:ALA:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VE:59:ILE:HG22	2:VE:111:ILE:HG12	1.92	0.50
2:VH:137:LEU:HB3	2:VH:145:LEU:HD22	1.94	0.50
2:VL:180:ASN:HB2	4:WD:186:ASN:HD21	1.76	0.50
2:Vc:125:LYS:HD2	2:Vc:169:ASP:HA	1.94	0.50
5:Yd:146:GLU:O	5:Yd:150:GLN:HG3	2.12	0.50
5:aD:75:GLN:NE2	5:aD:79:GLU:OE1	2.44	0.50
5:aJ:75:GLN:NE2	5:aJ:79:GLU:OE1	2.45	0.50
5:aU:55:ILE:O	5:aU:59:ILE:HG12	2.12	0.50
5:an:75:GLN:NE2	5:an:79:GLU:OE1	2.45	0.50
5:bO:103:LEU:HD12	5:bO:113:ILE:HG23	1.94	0.50
5:bg:98:PHE:HB3	5:bg:117:GLN:HE22	1.77	0.50
5:bz:75:GLN:NE2	5:bz:79:GLU:OE1	2.44	0.50
5:cf:75:GLN:NE2	5:cf:79:GLU:OE1	2.45	0.50
5:dC:55:ILE:O	5:dC:59:ILE:HG12	2.11	0.50
5:dd:75:GLN:NE2	5:dd:79:GLU:OE1	2.44	0.50
5:eE:57:GLU:HA	5:eE:60:THR:HG22	1.94	0.50
5:eJ:75:GLN:NE2	5:eJ:79:GLU:OE1	2.44	0.50
5:eu:86:ILE:HD11	5:eu:118:ARG:HE	1.75	0.50
5:fG:55:ILE:O	5:fG:59:ILE:HG12	2.11	0.50
5:fS:86:ILE:HD11	5:fS:118:ARG:HE	1.76	0.50
1:AA:85:GLN:HE22	1:AC:289:SER:HB2	1.77	0.50
1:AA:261:ILE:HD12	1:AA:312:LEU:HD23	1.93	0.50
1:AA:271:PHE:CD2	1:AA:273:PRO:HD3	2.47	0.50
1:Ar:308:ARG:HG3	2:Gs:34:ASN:HD22	1.76	0.50
1:BD:161:MET:SD	2:CZ:31:LEU:HD21	2.51	0.50
1:BK:47:VAL:HG22	1:BK:76:VAL:HG22	1.94	0.50
1:BQ:174:LYS:O	1:BQ:212:LYS:NZ	2.45	0.50
1:Be:26:TYR:O	5:Eo:218:TYR:OH	2.18	0.50
2:Bi:180:ASN:O	2:Bj:180:ASN:ND2	2.39	0.50
2:Bz:137:LEU:HB3	2:Bz:145:LEU:HD22	1.94	0.50
2:Cb:166:LEU:HB2	2:Cb:170:LEU:HD23	1.94	0.50
4:Cr:51:THR:HG21	4:Cr:180:LYS:HE3	1.93	0.50
1:Ep:85:GLN:HE22	1:Er:289:SER:HB2	1.76	0.50
1:Ey:54:ASN:OD1	2:GZ:47:ASN:ND2	2.31	0.50
1:FN:110:ASN:ND2	1:GO:62:ASN:OD1	2.45	0.50
1:FP:66:THR:HG22	2:Gi:52:CYS:HB3	1.92	0.50
1:Fv:317:LYS:NZ	1:Fv:319:SER:OXT	2.45	0.50
1:Fw:196:GLU:HB3	1:Fw:265:ASN:HD22	1.76	0.50
1:GH:77:VAL:HG21	2:HW:32:LEU:HD23	1.93	0.50
1:GH:161:MET:SD	2:HW:31:LEU:HD21	2.51	0.50
1:GN:277:MET:HA	1:GN:300:VAL:HB	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gs:125:LYS:HD2	2:Gs:169:ASP:HA	1.93	0.50
4:Ha:73:VAL:HG21	4:Ha:117:ILE:HD13	1.92	0.50
4:Hg:26:GLN:NE2	4:Hg:28:ASP:OD1	2.45	0.50
4:Hu:149:LEU:HD13	4:Hu:181:VAL:HG21	1.94	0.50
4:Hv:142:ILE:HD11	4:Hv:152:VAL:HG23	1.94	0.50
1:KC:86:TYR:OH	1:KD:55:ALA:O	2.20	0.50
1:KN:152:LEU:HD21	2:Li:105:SER:HA	1.94	0.50
1:KX:231:GLU:OE2	1:PP:244:ARG:NH2	2.44	0.50
1:Kk:317:LYS:NZ	1:Kk:319:SER:OXT	2.45	0.50
1:Kt:54:ASN:HD22	1:Kt:69:THR:C	2.20	0.50
1:Ku:174:LYS:O	1:Ku:212:LYS:NZ	2.45	0.50
1:Ky:257:HIS:CE1	1:Ky:318:GLN:HG3	2.47	0.50
1:LH:196:GLU:HB3	1:LH:265:ASN:HD22	1.77	0.50
2:MK:76:SER:HB3	2:MK:87:GLU:HG2	1.94	0.50
4:MS:142:ILE:HG13	4:MS:152:VAL:HG22	1.93	0.50
4:MU:33:SER:OG	1:On:75:GLU:OE2	2.27	0.50
4:MX:149:LEU:HD13	4:MX:181:VAL:HG21	1.93	0.50
1:OZ:41:MET:HE3	1:OZ:83:LYS:HB3	1.93	0.50
1:Og:261:ILE:HD12	1:Og:312:LEU:HD23	1.93	0.50
1:Ot:89:ARG:HH21	1:Ot:112:LEU:HD21	1.76	0.50
1:Pi:54:ASN:HD22	1:Pi:69:THR:C	2.20	0.50
1:Pr:277:MET:HA	1:Pr:300:VAL:HB	1.94	0.50
1:Pt:49:TRP:CZ3	1:Pt:74:SER:HB3	2.47	0.50
4:RJ:52:ARG:HB3	1:Tc:66:THR:HG22	1.94	0.50
4:RK:161:ILE:HA	4:RK:186:ASN:HA	1.93	0.50
4:RN:166:LEU:HD12	4:RN:180:LYS:HG2	1.92	0.50
4:RV:20:LYS:HZ1	4:RV:175:GLU:HB2	1.76	0.50
1:TV:164:GLN:HE22	1:TV:308:ARG:HA	1.76	0.50
1:TX:109:ASN:O	4:Vw:24:ASN:ND2	2.45	0.50
1:TY:152:LEU:HD21	4:Vw:112:SER:HA	1.93	0.50
1:Ti:8:TYR:CD2	1:Ti:93:GLN:HG3	2.46	0.50
1:Tp:101:SER:OG	1:Tp:102:ASP:N	2.45	0.50
1:UO:66:THR:HG22	4:WK:52:ARG:HB3	1.92	0.50
1:UP:87:LYS:NZ	2:Vf:53:THR:O	2.33	0.50
1:UW:45:LYS:HE2	1:UW:78:ARG:HD3	1.92	0.50
1:UX:26:TYR:O	5:Xh:218:TYR:OH	2.21	0.50
2:Uq:180:ASN:O	2:Ur:180:ASN:ND2	2.39	0.50
4:WN:10:GLU:O	4:WN:14:LYS:HG2	2.11	0.50
6:Xx:273:THR:HG22	6:Xx:275:SER:H	1.77	0.50
6:Xy:205:SER:HB2	6:Xy:245:LEU:HD23	1.94	0.50
5:ZB:127:PRO:O	5:ZB:131:ILE:HG13	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZE:126:VAL:HG22	5:ZE:154:LEU:HG	1.93	0.50
5:ZJ:127:PRO:O	5:ZJ:131:ILE:HG13	2.12	0.50
5:aL:75:GLN:NE2	5:aL:79:GLU:OE1	2.45	0.50
5:aN:103:LEU:HD12	5:aN:113:ILE:HG23	1.94	0.50
5:ay:55:ILE:O	5:ay:59:ILE:HG12	2.11	0.50
5:bF:75:GLN:NE2	5:bF:79:GLU:OE1	2.44	0.50
5:bn:75:GLN:NE2	5:bn:79:GLU:OE1	2.44	0.50
5:cD:103:LEU:HD12	5:cD:113:ILE:HG23	1.94	0.50
5:dE:86:ILE:HD11	5:dE:118:ARG:HE	1.76	0.50
5:eA:55:ILE:HG23	5:ei:147:ILE:CG1	2.38	0.50
5:eS:57:GLU:HA	5:eS:60:THR:HG22	1.94	0.50
5:ed:122:VAL:HG11	5:ed:151:LEU:HD13	1.92	0.50
5:en:122:VAL:HG11	5:en:151:LEU:HD13	1.93	0.50
5:fK:116:ALA:HB1	5:fq:55:ILE:HD13	1.93	0.50
5:fa:86:ILE:HD11	5:fa:118:ARG:HE	1.76	0.50
1:BE:79:LEU:HD11	1:BE:305:LEU:HB2	1.94	0.50
1:Bd:196:GLU:HB3	1:Bd:265:ASN:HD22	1.77	0.50
2:Bu:165:LYS:HE3	2:Bu:168:GLU:HA	1.92	0.50
2:CE:125:LYS:HD2	2:CE:169:ASP:HA	1.94	0.50
2:CT:125:LYS:HD2	2:CT:169:ASP:HA	1.94	0.50
2:CU:125:LYS:HD2	2:CU:169:ASP:HA	1.94	0.50
1:FE:109:ASN:O	4:Hd:24:ASN:ND2	2.45	0.50
1:Fa:57:PRO:HB2	1:Fl:84:LEU:HB3	1.93	0.50
1:GN:152:LEU:HD21	2:HU:105:SER:HA	1.94	0.50
4:Hv:14:LYS:HG3	4:Hw:14:LYS:HG3	1.94	0.50
1:Jf:80:ASN:ND2	1:Jf:153:PRO:O	2.45	0.50
1:Jn:54:ASN:OD1	2:LO:47:ASN:ND2	2.31	0.50
1:Jt:109:ASN:O	4:MS:24:ASN:ND2	2.45	0.50
1:KG:49:TRP:CZ3	1:KG:74:SER:HB3	2.47	0.50
1:KU:66:THR:HG22	4:MY:52:ARG:HB3	1.94	0.50
1:Kc:29:PHE:O	5:Nm:223:ARG:NH2	2.45	0.50
1:Kw:225:SER:HB3	1:LD:224:ALA:HB3	1.94	0.50
3:MN:101:TYR:CD2	3:MN:102:THR:HG23	2.47	0.50
1:Oc:49:TRP:CZ3	1:Oc:74:SER:HB3	2.47	0.50
1:Of:286:ASP:HB2	1:Of:294:HIS:HB2	1.92	0.50
1:Or:110:ASN:ND2	1:Ps:62:ASN:OD1	2.45	0.50
1:Ou:60:ILE:HG23	1:Tj:290:THR:HG22	1.94	0.50
1:PK:308:ARG:HG3	2:VL:34:ASN:HD22	1.76	0.50
1:PL:43:TYR:HE2	1:PL:45:LYS:HE2	1.77	0.50
1:Pa:78:ARG:O	1:Pa:154:ASN:ND2	2.33	0.50
1:Pa:79:LEU:HD11	1:Pa:305:LEU:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pf:152:LEU:HD21	4:RY:112:SER:HA	1.94	0.50
1:Pn:49:TRP:CZ3	1:Pn:74:SER:HB3	2.46	0.50
1:Ps:286:ASP:HB2	1:Ps:294:HIS:HB2	1.93	0.50
2:QF:167:THR:HG22	2:QF:168:GLU:H	1.76	0.50
2:QK:183:ILE:N	4:RH:188:ALA:O	2.40	0.50
4:RJ:43:VAL:HG22	4:RJ:172:ILE:HD11	1.93	0.50
1:TR:261:ILE:HD12	1:TR:312:LEU:HD23	1.94	0.50
1:Te:107:ASP:OD2	1:Te:110:ASN:ND2	2.28	0.50
1:Tf:205:VAL:HG12	1:Tf:259:ILE:HG23	1.92	0.50
1:Tt:57:PRO:HB2	1:UE:84:LEU:HB3	1.93	0.50
1:UA:41:MET:HE2	1:UA:83:LYS:HB3	1.94	0.50
1:UO:317:LYS:NZ	1:UO:319:SER:OXT	2.45	0.50
1:UX:257:HIS:CE1	1:UX:318:GLN:HG3	2.47	0.50
1:Ua:225:SER:HB3	1:Uh:224:ALA:HB3	1.94	0.50
1:Ue:78:ARG:O	1:Ue:154:ASN:ND2	2.33	0.50
1:Ui:49:TRP:CZ3	1:Ui:74:SER:HB3	2.47	0.50
2:Ux:69:TYR:HB2	2:Ux:101:ILE:HD12	1.94	0.50
2:VJ:180:ASN:O	3:Vr:242:ASN:ND2	2.45	0.50
4:WN:161:ILE:HA	4:WN:186:ASN:HA	1.94	0.50
5:YM:112:ASP:OD1	5:YM:115:GLN:NE2	2.45	0.50
5:YZ:113:ILE:O	5:YZ:117:GLN:HG2	2.12	0.50
5:Yd:75:GLN:NE2	5:Yd:79:GLU:OE1	2.45	0.50
5:Yd:118:ARG:HB3	5:Yd:152:VAL:HG11	1.93	0.50
5:Ye:55:ILE:O	5:Ye:59:ILE:HG12	2.12	0.50
5:Yr:84:ASN:ND2	5:Ys:84:ASN:HB2	2.27	0.50
5:Yv:72:ILE:O	5:Yv:76:LEU:HG	2.12	0.50
5:Yx:127:PRO:O	5:Yx:131:ILE:HG13	2.11	0.50
5:Yx:128:ILE:O	5:Yx:132:LYS:HG2	2.11	0.50
5:Yy:86:ILE:HD11	5:Yy:118:ARG:HE	1.76	0.50
5:ZE:86:ILE:HD11	5:ZE:118:ARG:HE	1.77	0.50
5:ZR:75:GLN:NE2	5:ZR:79:GLU:OE1	2.44	0.50
5:ZY:79:GLU:O	5:ZY:83:ILE:HG12	2.12	0.50
5:Zf:103:LEU:HD12	5:Zf:113:ILE:HG23	1.94	0.50
5:Zh:103:LEU:HD12	5:Zh:113:ILE:HG23	1.94	0.50
5:bG:55:ILE:O	5:bG:59:ILE:HG12	2.11	0.50
5:cG:111:LYS:HZ2	5:cJ:74:LYS:HE3	1.76	0.50
5:cH:75:GLN:NE2	5:cH:79:GLU:OE1	2.44	0.50
5:cy:55:ILE:O	5:cy:59:ILE:HG12	2.12	0.50
5:dV:103:LEU:HD12	5:dV:113:ILE:HG23	1.94	0.50
5:eh:74:LYS:HE3	5:ei:111:LYS:HZ2	1.76	0.50
5:ev:75:GLN:NE2	5:ev:79:GLU:OE1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fD:75:GLN:NE2	5:fD:79:GLU:OE1	2.44	0.50
1:AJ:49:TRP:CZ3	1:AJ:74:SER:HB3	2.47	0.49
1:Ab:290:THR:HG22	1:Tj:60:ILE:HG23	1.94	0.49
1:Ak:22:ASP:OD1	5:Du:213:ARG:NE	2.45	0.49
1:Al:57:PRO:HB2	1:Aw:84:LEU:HB3	1.93	0.49
1:BU:257:HIS:CE1	1:BU:318:GLN:HG3	2.46	0.49
1:BV:296:TYR:HE2	1:BW:67:ILE:HG13	1.76	0.49
1:BY:161:MET:SD	2:By:31:LEU:HD21	2.52	0.49
2:Cb:77:PHE:HD2	4:DG:138:LYS:HG3	1.77	0.49
1:Ey:261:ILE:HD12	1:Ey:312:LEU:HD23	1.94	0.49
1:FN:80:ASN:ND2	1:FN:154:ASN:HB2	2.27	0.49
1:FP:79:LEU:HD11	1:FP:305:LEU:HB2	1.94	0.49
1:FW:244:ARG:NH1	1:Fa:210:SER:OG	2.44	0.49
1:Fs:161:MET:SD	2:HO:31:LEU:HD21	2.51	0.49
1:Fv:26:TYR:O	5:JF:218:TYR:OH	2.30	0.49
1:Fz:47:VAL:HG22	1:Fz:76:VAL:HG22	1.94	0.49
1:GH:84:LEU:HD13	1:GK:57:PRO:HB2	1.93	0.49
1:GK:296:TYR:HE2	1:GL:67:ILE:HG13	1.76	0.49
1:GS:196:GLU:HB3	1:GS:265:ASN:HD22	1.77	0.49
2:Gq:137:LEU:HD11	2:Gq:159:ALA:HB2	1.93	0.49
2:Gt:125:LYS:HD2	2:Gt:169:ASP:HA	1.93	0.49
4:Hf:52:ARG:HB3	1:Jy:66:THR:HG22	1.94	0.49
4:Hg:51:THR:HG21	4:Hg:180:LYS:HE3	1.93	0.49
4:Hg:161:ILE:HA	4:Hg:186:ASN:HA	1.93	0.49
1:Je:85:GLN:HE22	1:Jg:289:SER:HB2	1.77	0.49
1:KF:60:ILE:HG23	1:Ou:290:THR:HG22	1.94	0.49
1:KW:41:MET:HE2	1:KW:83:LYS:HB3	1.94	0.49
1:KW:67:ILE:HG13	1:Kd:296:TYR:HE2	1.76	0.49
1:Kz:164:GLN:HE22	1:Kz:308:ARG:HA	1.76	0.49
1:LI:78:ARG:O	1:LI:154:ASN:ND2	2.32	0.49
2:Lc:137:LEU:HD11	2:Lc:159:ALA:HB2	1.94	0.49
4:MV:26:GLN:NE2	4:MV:28:ASP:OD1	2.45	0.49
1:OU:80:ASN:ND2	1:OU:153:PRO:O	2.45	0.49
1:OX:55:ALA:O	1:Ob:86:TYR:OH	2.27	0.49
1:Oc:54:ASN:OD1	2:QD:47:ASN:ND2	2.31	0.49
1:Oh:152:LEU:HD21	2:QI:105:SER:HA	1.92	0.49
1:PL:196:GLU:HB3	1:PL:265:ASN:HD22	1.76	0.49
1:PM:307:THR:HG22	4:RQ:32:LEU:HB2	1.94	0.49
1:PY:135:LEU:HD21	1:PY:255:LEU:HG	1.94	0.49
1:Pn:110:ASN:OD1	1:Pp:62:ASN:ND2	2.37	0.49
1:Pr:161:MET:SD	2:QR:31:LEU:HD21	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pr:205:VAL:HG12	1:Pr:259:ILE:HG23	1.94	0.49
2:QW:125:LYS:HD2	2:QW:169:ASP:HA	1.93	0.49
4:RZ:142:ILE:HD11	4:RZ:152:VAL:HG23	1.94	0.49
1:TL:86:TYR:OH	1:TO:55:ALA:O	2.22	0.49
1:Tf:152:LEU:HD21	2:VC:105:SER:HA	1.93	0.49
1:Ts:26:TYR:O	5:XC:218:TYR:OH	2.28	0.49
1:UN:135:LEU:HD21	1:UN:255:LEU:HG	1.94	0.49
1:UQ:13:VAL:HA	1:UQ:16:ILE:HG22	1.94	0.49
1:UZ:194:GLY:HA3	4:WP:36:ASN:OD1	2.12	0.49
1:Ul:196:GLU:HB3	1:Ul:265:ASN:HD22	1.77	0.49
1:Um:257:HIS:CE1	1:Um:318:GLN:HG3	2.47	0.49
4:WP:10:GLU:O	4:WP:14:LYS:HG2	2.12	0.49
5:YU:77:LEU:O	5:YU:81:GLU:HG2	2.11	0.49
5:Ye:118:ARG:HB3	5:Ye:152:VAL:HG11	1.95	0.49
5:Yr:127:PRO:O	5:Yr:131:ILE:HG13	2.11	0.49
5:ZA:150:GLN:HB3	5:ZB:134:ILE:HG23	1.93	0.49
5:ZM:131:ILE:HD13	5:ZM:140:ILE:HD11	1.94	0.49
5:Zn:103:LEU:HD12	5:Zn:113:ILE:HG23	1.94	0.49
5:aH:75:GLN:NE2	5:aH:79:GLU:OE1	2.45	0.49
5:aT:75:GLN:NE2	5:aT:79:GLU:OE1	2.44	0.49
5:aW:98:PHE:HB3	5:aW:117:GLN:HE22	1.77	0.49
5:bp:74:LYS:HE3	5:cS:111:LYS:HZ2	1.77	0.49
5:cT:75:GLN:NE2	5:cT:79:GLU:OE1	2.44	0.49
5:dW:55:ILE:HD13	5:eC:116:ALA:HB1	1.94	0.49
5:di:136:LYS:HZ3	5:eQ:55:ILE:HD12	1.76	0.49
5:dp:75:GLN:NE2	5:dp:79:GLU:OE1	2.44	0.49
5:dt:75:GLN:NE2	5:dt:79:GLU:OE1	2.44	0.49
5:eL:75:GLN:NE2	5:eL:79:GLU:OE1	2.44	0.49
5:ea:55:ILE:O	5:ea:59:ILE:HG12	2.12	0.49
5:er:103:LEU:HD12	5:er:113:ILE:HG23	1.94	0.49
5:ew:86:ILE:HD11	5:ew:118:ARG:HE	1.77	0.49
5:fB:75:GLN:NE2	5:fB:79:GLU:OE1	2.44	0.49
5:fE:55:ILE:O	5:fE:59:ILE:HG12	2.11	0.49
5:fE:116:ALA:HB1	5:fk:55:ILE:HD13	1.94	0.49
5:fH:75:GLN:NE2	5:fH:79:GLU:OE1	2.44	0.49
5:fI:116:ALA:HB1	5:fo:55:ILE:HD13	1.94	0.49
5:fQ:116:ALA:HB1	5:fw:55:ILE:HD13	1.92	0.49
5:fU:86:ILE:HD11	5:fU:118:ARG:HE	1.75	0.49
5:fq:131:ILE:HD13	5:fq:140:ILE:HD11	1.95	0.49
5:fu:86:ILE:HD11	5:fu:118:ARG:HE	1.76	0.49
5:gC:86:ILE:HD11	5:gC:118:ARG:HE	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:164:GLN:HE22	1:AE:308:ARG:HA	1.78	0.49
1:AI:161:MET:SD	2:Gg:31:LEU:HD21	2.53	0.49
1:AZ:132:HIS:HA	1:AZ:254:LEU:HD13	1.93	0.49
1:Ai:26:TYR:O	5:Ds:218:TYR:OH	2.28	0.49
1:Aq:13:VAL:HG11	1:Aq:281:PRO:HG2	1.94	0.49
1:As:43:TYR:HE2	1:As:45:LYS:HE2	1.77	0.49
1:As:196:GLU:HB3	1:As:265:ASN:HD22	1.76	0.49
1:BH:80:ASN:ND2	1:BH:153:PRO:O	2.31	0.49
1:BM:195:ASP:H	4:WM:36:ASN:HD22	1.60	0.49
1:BY:152:LEU:HD21	2:Cf:105:SER:HA	1.94	0.49
1:BY:205:VAL:HG12	1:BY:259:ILE:HG23	1.94	0.49
1:Ba:257:HIS:ND1	1:Ba:318:GLN:HG3	2.26	0.49
2:Bm:23:LYS:N	2:Bm:67:TYR:OH	2.45	0.49
2:Bt:167:THR:HG22	2:Bt:168:GLU:H	1.77	0.49
2:CT:181:ARG:HH12	2:CU:94:LEU:HB3	1.78	0.49
3:Cj:101:TYR:CD2	3:Cj:102:THR:HG23	2.47	0.49
1:Et:55:ALA:O	1:Ex:86:TYR:OH	2.27	0.49
1:FZ:226:SER:OG	1:Fk:226:SER:O	2.29	0.49
1:Fc:55:ALA:O	1:Fg:86:TYR:OH	2.24	0.49
1:Fe:80:ASN:ND2	1:Fe:153:PRO:O	2.44	0.49
1:Ff:13:VAL:HG11	1:Ff:281:PRO:HG2	1.94	0.49
1:Fi:272:LYS:N	1:Fi:303:GLY:O	2.38	0.49
1:Fm:100:THR:HG22	1:Fm:105:ILE:HG23	1.94	0.49
1:Fn:86:TYR:OH	1:Fo:55:ALA:O	2.23	0.49
1:Ft:8:TYR:CD2	1:Ft:93:GLN:HG3	2.47	0.49
1:GE:257:HIS:CE1	1:GE:318:GLN:HG3	2.47	0.49
1:GP:49:TRP:CZ3	1:GP:74:SER:HB3	2.47	0.49
2:Gl:77:PHE:HD2	4:Hg:138:LYS:HG3	1.77	0.49
2:Gu:63:PRO:HB2	2:Gu:85:GLU:HG2	1.94	0.49
1:Ji:55:ALA:O	1:Jm:86:TYR:OH	2.27	0.49
1:KB:205:VAL:HG12	1:KB:259:ILE:HG23	1.92	0.49
1:KP:152:LEU:HD21	2:Lj:105:SER:HA	1.93	0.49
1:Kj:110:ASN:OD1	1:Kl:62:ASN:ND2	2.43	0.49
1:LC:277:MET:HA	1:LC:300:VAL:HB	1.94	0.49
1:LE:49:TRP:CZ3	1:LE:74:SER:HB3	2.47	0.49
1:LG:89:ARG:HH21	1:LG:112:LEU:HD21	1.77	0.49
2:LY:165:LYS:HE3	2:LY:168:GLU:HA	1.93	0.49
2:Li:125:LYS:HD2	2:Li:169:ASP:HA	1.93	0.49
2:Lx:125:LYS:HD2	2:Lx:169:ASP:HA	1.94	0.49
1:Ot:87:LYS:NZ	2:QR:53:THR:O	2.29	0.49
1:Pn:196:GLU:HB3	1:Pn:265:ASN:HD22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QD:165:LYS:HE3	2:QD:168:GLU:HA	1.92	0.49
2:QV:123:LEU:HD13	2:QV:173:VAL:HG11	1.94	0.49
3:RC:101:TYR:CD2	3:RC:102:THR:HG23	2.47	0.49
4:RW:149:LEU:HD13	4:RW:181:VAL:HG21	1.93	0.49
4:RY:73:VAL:HG21	4:RY:117:ILE:HD13	1.92	0.49
1:Th:306:ALA:O	4:Vz:31:LEU:HB2	2.11	0.49
1:Tl:84:LEU:HB3	1:To:57:PRO:HB2	1.94	0.49
1:Ty:13:VAL:HG11	1:Ty:281:PRO:HG2	1.94	0.49
1:UD:257:HIS:CE1	1:UD:318:GLN:HG3	2.47	0.49
1:UF:20:VAL:O	5:XP:213:ARG:NH2	2.45	0.49
1:UF:100:THR:HG22	1:UF:105:ILE:HG23	1.94	0.49
1:UM:8:TYR:CD2	1:UM:93:GLN:HG3	2.47	0.49
1:UP:196:GLU:HB3	1:UP:265:ASN:HD22	1.76	0.49
1:UZ:52:PHE:HB3	4:WP:41:LYS:HE2	1.94	0.49
2:VB:183:ILE:HD12	4:Vx:188:ALA:HB3	1.94	0.49
6:YH:197:LEU:O	6:YH:201:GLN:HG2	2.13	0.49
5:ZD:99:ASN:HB3	5:ZD:102:VAL:HG22	1.93	0.49
5:ZF:127:PRO:O	5:ZF:131:ILE:HG13	2.12	0.49
5:Zw:55:ILE:O	5:Zw:59:ILE:HG12	2.12	0.49
5:aI:111:LYS:HZ2	5:aL:74:LYS:HE3	1.77	0.49
5:aM:98:PHE:HB3	5:aM:117:GLN:HE22	1.77	0.49
5:al:75:GLN:NE2	5:al:79:GLU:OE1	2.45	0.49
5:ax:103:LEU:HD12	5:ax:113:ILE:HG23	1.94	0.49
5:bY:55:ILE:O	5:bY:59:ILE:HG12	2.11	0.49
5:bq:55:ILE:O	5:bq:59:ILE:HG12	2.10	0.49
5:bx:75:GLN:NE2	5:bx:79:GLU:OE1	2.44	0.49
5:by:55:ILE:O	5:by:59:ILE:HG12	2.12	0.49
5:cY:111:LYS:HZ2	5:cb:74:LYS:HE3	1.77	0.49
5:cm:55:ILE:O	5:cm:59:ILE:HG12	2.12	0.49
5:dN:103:LEU:HD12	5:dN:113:ILE:HG23	1.94	0.49
5:dO:55:ILE:O	5:dO:59:ILE:HG12	2.12	0.49
5:dO:111:LYS:HZ2	5:dR:74:LYS:HE3	1.77	0.49
5:et:75:GLN:NE2	5:et:79:GLU:OE1	2.44	0.49
5:eu:98:PHE:HB3	5:eu:117:GLN:HE22	1.77	0.49
5:fF:75:GLN:NE2	5:fF:79:GLU:OE1	2.44	0.49
5:fJ:75:GLN:NE2	5:fJ:79:GLU:OE1	2.44	0.49
5:fS:116:ALA:HB1	5:fy:55:ILE:HD13	1.94	0.49
5:fX:75:GLN:NE2	5:fX:79:GLU:OE1	2.44	0.49
5:fa:55:ILE:O	5:fa:59:ILE:HG12	2.12	0.49
5:fm:55:ILE:O	5:fm:59:ILE:HG12	2.11	0.49
5:fm:86:ILE:HD11	5:fm:118:ARG:HE	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:41:MET:HE3	1:AG:83:LYS:HB3	1.94	0.49
1:AQ:152:LEU:HD21	4:Co:112:SER:HA	1.93	0.49
1:AY:110:ASN:ND2	1:BZ:62:ASN:OD1	2.45	0.49
1:Ab:60:ILE:HG23	1:FQ:290:THR:HG22	1.94	0.49
1:BD:77:VAL:HG21	2:CZ:32:LEU:HD23	1.93	0.49
1:BH:87:LYS:NZ	2:CX:53:THR:O	2.33	0.49
1:BR:49:TRP:CE3	1:BR:74:SER:HB3	2.47	0.49
1:BS:174:LYS:O	1:BS:212:LYS:NZ	2.45	0.49
1:BY:277:MET:HA	1:BY:300:VAL:HB	1.94	0.49
2:Bh:167:THR:HB	2:Bh:170:LEU:HB3	1.94	0.49
1:Ex:161:MET:SD	2:LV:31:LEU:HD21	2.53	0.49
1:FW:107:ASP:OD2	1:FW:110:ASN:ND2	2.28	0.49
1:FY:89:ARG:HH21	1:FY:112:LEU:HD21	1.77	0.49
1:Fd:59:THR:O	2:HB:61:ASN:ND2	2.46	0.49
1:Fn:29:PHE:O	5:Ix:223:ARG:NH2	2.45	0.49
1:Ft:196:GLU:OE1	1:Ft:265:ASN:ND2	2.43	0.49
1:GD:107:ASP:OD2	1:GD:110:ASN:ND2	2.31	0.49
1:GH:174:LYS:O	1:GH:212:LYS:NZ	2.46	0.49
1:GP:66:THR:HG22	2:HQ:52:CYS:HB3	1.94	0.49
2:Gi:181:ARG:HG2	2:Gi:182:ALA:H	1.76	0.49
4:Hh:141:LEU:HD11	4:Hh:165:ALA:HB2	1.93	0.49
1:Jo:164:GLN:HE22	1:Jo:308:ARG:HA	1.77	0.49
1:Ki:140:SER:HB2	1:Ki:148:GLN:HG2	1.92	0.49
1:Kq:107:ASP:OD2	1:Kq:110:ASN:ND2	2.35	0.49
1:Kw:84:LEU:HD13	1:Kz:57:PRO:HB2	1.93	0.49
2:MI:69:TYR:HB2	2:MI:101:ILE:HD12	1.94	0.49
4:Mg:20:LYS:HZ1	4:Mg:175:GLU:HB2	1.77	0.49
4:Mk:161:ILE:HA	4:Mk:186:ASN:HA	1.93	0.49
1:Ol:162:PRO:O	2:QS:31:LEU:HD21	2.12	0.49
1:Ov:49:TRP:CZ3	1:Ov:74:SER:HB3	2.47	0.49
1:PL:41:MET:HE2	1:PL:83:LYS:HB3	1.94	0.49
1:PL:55:ALA:O	1:PS:86:TYR:OH	2.22	0.49
1:PM:231:GLU:OE2	1:UE:244:ARG:NH2	2.44	0.49
1:PN:16:ILE:HD11	1:PN:120:LYS:HE3	1.95	0.49
1:PT:196:GLU:HB3	1:PT:265:ASN:HD22	1.76	0.49
1:PZ:87:LYS:NZ	2:Qp:53:THR:O	2.38	0.49
2:QU:180:ASN:O	3:RC:242:ASN:ND2	2.46	0.49
1:TI:271:PHE:CD2	1:TI:273:PRO:HD3	2.47	0.49
1:TQ:196:GLU:HB3	1:TQ:265:ASN:HD22	1.76	0.49
1:TR:152:LEU:HD21	4:Vu:112:SER:HA	1.93	0.49
1:UH:49:TRP:CZ3	1:UH:74:SER:HB3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UP:80:ASN:ND2	1:UP:153:PRO:O	2.30	0.49
1:Ua:26:TYR:O	5:Xk:218:TYR:OH	2.25	0.49
1:Uf:89:ARG:HH21	1:Uf:112:LEU:HD21	1.77	0.49
2:VP:69:TYR:HB2	2:VP:101:ILE:HD12	1.92	0.49
2:Vb:125:LYS:HD2	2:Vb:169:ASP:HA	1.94	0.49
5:YX:113:ILE:O	5:YX:117:GLN:HG2	2.12	0.49
5:Yg:113:ILE:O	5:Yg:117:GLN:HG2	2.12	0.49
5:Yl:127:PRO:O	5:Yl:131:ILE:HG13	2.11	0.49
5:Yn:99:ASN:HB3	5:Yn:102:VAL:HG22	1.93	0.49
5:Yt:122:VAL:HG11	5:Yt:151:LEU:HD13	1.94	0.49
5:ZP:99:ASN:HB3	5:ZP:102:VAL:HG22	1.93	0.49
5:Zq:55:ILE:O	5:Zq:59:ILE:HG12	2.12	0.49
5:aj:75:GLN:NE2	5:aj:79:GLU:OE1	2.44	0.49
5:bn:99:ASN:HB3	5:bn:102:VAL:HG22	1.94	0.49
5:cL:99:ASN:HB3	5:cL:102:VAL:HG22	1.94	0.49
5:cl:103:LEU:HD12	5:cl:113:ILE:HG23	1.94	0.49
5:cv:75:GLN:NE2	5:cv:79:GLU:OE1	2.45	0.49
5:cw:131:ILE:HD13	5:cw:140:ILE:HD11	1.94	0.49
5:cx:99:ASN:HB3	5:cx:102:VAL:HG22	1.94	0.49
5:dT:103:LEU:HD12	5:dT:113:ILE:HG23	1.94	0.49
5:dn:75:GLN:NE2	5:dn:79:GLU:OE1	2.44	0.49
5:du:56:ASN:HD22	5:ec:145:GLY:HA3	1.77	0.49
5:dw:56:ASN:HD22	5:ee:145:GLY:HA3	1.77	0.49
5:eD:103:LEU:HD12	5:eD:113:ILE:HG23	1.94	0.49
5:eM:57:GLU:HA	5:eM:60:THR:HG22	1.94	0.49
5:eZ:103:LEU:HD12	5:eZ:113:ILE:HG23	1.93	0.49
5:ed:103:LEU:HD12	5:ed:113:ILE:HG23	1.94	0.49
5:eh:75:GLN:NE2	5:eh:79:GLU:OE1	2.44	0.49
5:fg:86:ILE:HD11	5:fg:118:ARG:HE	1.76	0.49
5:fy:86:ILE:HD11	5:fy:118:ARG:HE	1.76	0.49
1:AA:54:ASN:OD1	2:GU:47:ASN:ND2	2.43	0.49
1:Aj:152:LEU:HD21	2:CE:105:SER:HA	1.94	0.49
1:Aw:87:LYS:NZ	2:CN:53:THR:O	2.29	0.49
1:Ax:20:VAL:O	5:EH:213:ARG:NH2	2.45	0.49
1:BP:257:HIS:CE1	1:BP:318:GLN:HG3	2.47	0.49
1:BR:86:TYR:OH	1:Fq:55:ALA:O	2.23	0.49
1:Ba:49:TRP:CZ3	1:Ba:74:SER:HB3	2.47	0.49
2:CD:34:ASN:HD22	1:Tz:308:ARG:HG3	1.76	0.49
2:Cf:133:PRO:HG3	2:Cf:161:SER:HA	1.93	0.49
2:Cg:76:SER:HB3	2:Cg:87:GLU:HG2	1.94	0.49
2:Ch:77:PHE:HD2	4:DJ:138:LYS:HE2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Cr:26:GLN:NE2	4:Cr:28:ASP:OD1	2.45	0.49
4:Cu:144:ASN:OD1	4:Cu:148:ALA:N	2.43	0.49
4:DG:142:ILE:HD11	4:DG:152:VAL:HG23	1.94	0.49
4:DH:149:LEU:HD13	4:DH:181:VAL:HG21	1.93	0.49
1:Fa:152:LEU:HD21	2:Gu:105:SER:HA	1.93	0.49
1:Fj:78:ARG:NH1	2:Ls:28:ASP:OD2	2.46	0.49
1:Fu:257:HIS:CE1	1:Fu:318:GLN:HG3	2.47	0.49
1:GN:161:MET:SD	2:Gn:31:LEU:HD21	2.52	0.49
1:GR:89:ARG:HH21	1:GR:112:LEU:HD21	1.77	0.49
2:HT:69:TYR:HB2	2:HT:101:ILE:HD12	1.94	0.49
4:Hq:78:GLN:HE22	4:Hq:89:TYR:HB2	1.78	0.49
4:Hw:10:GLU:O	4:Hw:14:LYS:HG2	2.12	0.49
1:Jk:194:GLY:HA3	2:LM:36:ILE:HG23	1.94	0.49
1:Jm:57:PRO:HB2	1:Oj:84:LEU:HB3	1.94	0.49
1:Js:66:THR:HG22	4:MT:52:ARG:HD2	1.94	0.49
1:KL:55:ALA:O	1:KP:86:TYR:OH	2.27	0.49
1:KS:59:THR:O	2:Lq:61:ASN:ND2	2.45	0.49
1:Ki:79:LEU:HD11	1:Ki:305:LEU:HB2	1.94	0.49
1:Ku:143:LYS:HA	2:MF:39:ARG:HD2	1.93	0.49
1:Kw:174:LYS:O	1:Kw:212:LYS:NZ	2.46	0.49
1:LA:87:LYS:NZ	2:MJ:53:THR:O	2.33	0.49
1:LB:89:ARG:HH21	1:LB:112:LEU:HD21	1.77	0.49
1:LF:161:MET:SD	4:Rb:31:LEU:HD21	2.52	0.49
1:LI:257:HIS:CE1	1:LI:318:GLN:HG3	2.47	0.49
2:LP:165:LYS:HE3	2:LP:168:GLU:HA	1.95	0.49
2:LQ:23:LYS:N	2:LQ:67:TYR:OH	2.45	0.49
4:MX:144:ASN:OD1	4:MX:148:ALA:N	2.44	0.49
4:Mj:10:GLU:O	4:Mj:14:LYS:HG2	2.12	0.49
1:Of:24:ILE:HG12	1:Of:131:ASN:ND2	2.28	0.49
1:Or:80:ASN:ND2	1:Or:154:ASN:HB2	2.27	0.49
1:Ow:84:LEU:HB3	1:Oz:57:PRO:HB2	1.94	0.49
1:Pa:196:GLU:HB3	1:Pa:265:ASN:HD22	1.76	0.49
1:Pm:270:LYS:HG2	1:Pm:272:LYS:HE3	1.94	0.49
2:QI:69:TYR:HB2	2:QI:101:ILE:HD12	1.94	0.49
1:TO:41:MET:HE3	1:TO:83:LYS:HB3	1.94	0.49
1:TR:49:TRP:CZ3	1:TR:74:SER:HB3	2.47	0.49
1:TU:24:ILE:HG12	1:TU:131:ASN:ND2	2.28	0.49
1:Ti:89:ARG:HH21	1:Ti:112:LEU:HD21	1.77	0.49
1:UA:67:ILE:HG13	1:UH:296:TYR:HE2	1.76	0.49
1:UA:196:GLU:HB3	1:UA:265:ASN:HD22	1.76	0.49
1:UD:307:THR:HG22	2:VN:32:LEU:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UY:143:LYS:HA	2:Vj:39:ARG:HD2	1.93	0.49
1:UZ:49:TRP:CE3	1:UZ:74:SER:HB3	2.47	0.49
1:Ua:84:LEU:HD13	1:Ud:57:PRO:HB2	1.93	0.49
2:VJ:69:TYR:HB2	2:VJ:101:ILE:HD12	1.93	0.49
2:VL:165:LYS:HE3	2:VL:168:GLU:HA	1.93	0.49
2:VY:75:LEU:HD22	2:VY:84:LEU:HD13	1.94	0.49
2:Vb:181:ARG:HH12	2:Vc:94:LEU:HB3	1.78	0.49
2:Vn:133:PRO:HG3	2:Vn:161:SER:HA	1.93	0.49
4:Vz:161:ILE:HA	4:Vz:186:ASN:HA	1.93	0.49
5:YL:115:GLN:O	5:YL:119:ARG:HG3	2.13	0.49
5:YP:66:VAL:O	5:YP:70:GLU:HG2	2.12	0.49
5:YX:130:GLN:HB3	5:YX:154:LEU:HD21	1.94	0.49
5:Ya:113:ILE:O	5:Ya:117:GLN:HG2	2.12	0.49
5:Yg:122:VAL:HG11	5:Yg:151:LEU:HD13	1.94	0.49
5:ZI:112:ASP:OD1	5:ZI:115:GLN:NE2	2.42	0.49
5:ZV:75:GLN:NE2	5:ZV:79:GLU:OE1	2.44	0.49
5:Zb:75:GLN:NE2	5:Zb:79:GLU:OE1	2.44	0.49
5:Zq:111:LYS:HZ2	5:Zt:74:LYS:HE3	1.76	0.49
5:aB:75:GLN:NE2	5:aB:79:GLU:OE1	2.44	0.49
5:aP:103:LEU:HD12	5:aP:113:ILE:HG23	1.94	0.49
5:bC:55:ILE:O	5:bC:59:ILE:HG12	2.12	0.49
5:bJ:103:LEU:HD12	5:bJ:113:ILE:HG23	1.94	0.49
5:cF:75:GLN:NE2	5:cF:79:GLU:OE1	2.45	0.49
5:df:75:GLN:NE2	5:df:79:GLU:OE1	2.44	0.49
5:dl:75:GLN:NE2	5:dl:79:GLU:OE1	2.44	0.49
5:eB:75:GLN:NE2	5:eB:79:GLU:OE1	2.44	0.49
5:eB:103:LEU:HD12	5:eB:113:ILE:HG23	1.94	0.49
5:eX:75:GLN:NE2	5:eX:79:GLU:OE1	2.44	0.49
5:eg:55:ILE:O	5:eg:59:ILE:HG12	2.12	0.49
5:ei:116:ALA:HB1	5:fO:55:ILE:HD13	1.93	0.49
5:eo:57:GLU:HA	5:eo:60:THR:HG22	1.94	0.49
5:fT:75:GLN:NE2	5:fT:79:GLU:OE1	2.44	0.49
5:fV:75:GLN:NE2	5:fV:79:GLU:OE1	2.44	0.49
5:fX:103:LEU:HD12	5:fX:113:ILE:HG23	1.94	0.49
5:fb:103:LEU:HD12	5:fb:113:ILE:HG23	1.94	0.49
1:AO:66:THR:HG22	4:Cp:52:ARG:HD2	1.94	0.49
1:AS:162:PRO:O	2:Bz:31:LEU:HD21	2.13	0.49
1:Aa:89:ARG:HH21	1:Aa:112:LEU:HD21	1.77	0.49
1:Ax:100:THR:HG22	1:Ax:105:ILE:HG23	1.94	0.49
1:BL:16:ILE:HD12	1:BL:116:ALA:HB1	1.95	0.49
1:BU:49:TRP:CZ3	1:BU:74:SER:HB3	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bc:89:ARG:HH21	1:Bc:112:LEU:HD21	1.77	0.49
1:Bd:33:GLN:NE2	1:Bd:269:ILE:O	2.41	0.49
2:Br:31:LEU:HD21	1:TQ:161:MET:SD	2.53	0.49
4:DF:10:GLU:O	4:DF:14:LYS:HG2	2.11	0.49
1:Ev:41:MET:HE3	1:Ev:83:LYS:HB3	1.94	0.49
1:Fk:257:HIS:CE1	1:Fk:318:GLN:HG3	2.47	0.49
1:Fp:196:GLU:HB3	1:Fp:265:ASN:HD22	1.76	0.49
1:Fs:77:VAL:HG21	2:HO:32:LEU:HD23	1.93	0.49
1:GB:107:ASP:OD2	1:GB:110:ASN:ND2	2.36	0.49
1:GJ:110:ASN:OD1	1:GL:62:ASN:ND2	2.37	0.49
1:GT:81:TYR:OH	1:GT:272:LYS:O	2.29	0.49
1:GT:142:GLN:O	4:Hh:39:ARG:HD2	2.13	0.49
2:Gi:167:THR:HG22	2:Gi:168:GLU:H	1.77	0.49
2:Gn:137:LEU:HD11	2:Gn:159:ALA:HB2	1.94	0.49
2:Gq:180:ASN:O	3:HY:242:ASN:ND2	2.45	0.49
5:Ir:191:ASP:CG	5:Zp:96:ASN:OD1	2.54	0.49
1:Je:261:ILE:HD12	1:Je:312:LEU:HD23	1.93	0.49
1:Jr:261:ILE:HD12	1:Jr:312:LEU:HD23	1.93	0.49
1:Jw:66:THR:OG1	4:MW:58:LYS:NZ	2.44	0.49
1:KA:87:LYS:NZ	2:LZ:53:THR:O	2.33	0.49
2:La:133:PRO:HG3	2:La:161:SER:HA	1.95	0.49
4:MO:77:ILE:HG13	4:MO:91:PRO:HB3	1.95	0.49
1:Ob:57:PRO:HB2	1:TY:84:LEU:HB3	1.94	0.49
1:Oq:59:THR:HG1	1:Pw:149:LYS:HZ1	1.59	0.49
1:PC:152:LEU:HD21	2:QX:105:SER:HA	1.94	0.49
1:PD:26:TYR:O	5:SN:218:TYR:OH	2.28	0.49
1:PQ:100:THR:HG22	1:PQ:105:ILE:HG23	1.94	0.49
1:PR:29:PHE:O	5:Sb:223:ARG:NH2	2.45	0.49
1:PR:212:LYS:HA	1:PR:215:LYS:HE3	1.95	0.49
1:PZ:317:LYS:NZ	1:PZ:319:SER:OXT	2.45	0.49
1:Pi:66:THR:HG22	2:Qq:52:CYS:HB3	1.95	0.49
1:Po:296:TYR:HE2	1:Pp:67:ILE:HG13	1.76	0.49
1:Pw:196:GLU:HB3	1:Pw:265:ASN:HD22	1.77	0.49
2:QS:137:LEU:HB3	2:QS:145:LEU:HD22	1.94	0.49
2:QU:165:LYS:HE3	2:QU:168:GLU:HA	1.95	0.49
2:QY:63:PRO:HB2	2:QY:85:GLU:HG2	1.94	0.49
4:RH:142:ILE:HG13	4:RH:152:VAL:HG22	1.93	0.49
4:RP:28:ASP:OD1	4:RP:28:ASP:N	2.45	0.49
4:RY:161:ILE:HA	4:RY:186:ASN:HA	1.94	0.49
1:TM:164:GLN:HE22	1:TM:308:ARG:HA	1.78	0.49
1:UN:257:HIS:CE1	1:UN:318:GLN:HG3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UT:16:ILE:HD12	1:UT:116:ALA:HB1	1.95	0.49
1:Ug:161:MET:SD	2:VG:31:LEU:HD21	2.52	0.49
2:VS:148:VAL:HG11	2:VS:153:LYS:HD3	1.94	0.49
2:Vp:136:LYS:HD3	2:Vp:155:VAL:HG11	1.94	0.49
6:Xy:35:ASP:OD2	6:Xy:329:TYR:OH	2.20	0.49
5:YT:73:GLU:O	5:YT:77:LEU:HG	2.11	0.49
5:Ye:125:PHE:O	5:Ye:158:ASN:ND2	2.45	0.49
5:Yf:103:LEU:HD12	5:Yf:113:ILE:HG23	1.94	0.49
5:Yw:122:VAL:HG21	5:Yw:151:LEU:HB3	1.95	0.49
5:Zv:99:ASN:HB3	5:Zv:102:VAL:HG22	1.95	0.49
5:Zx:75:GLN:NE2	5:Zx:79:GLU:OE1	2.44	0.49
5:Zz:75:GLN:NE2	5:Zz:79:GLU:OE1	2.44	0.49
5:aL:103:LEU:HD12	5:aL:113:ILE:HG23	1.94	0.49
5:aX:75:GLN:NE2	5:aX:79:GLU:OE1	2.44	0.49
5:ab:99:ASN:HB3	5:ab:102:VAL:HG22	1.95	0.49
5:bV:103:LEU:HD12	5:bV:113:ILE:HG23	1.94	0.49
5:be:55:ILE:HG21	5:cK:116:ALA:HB2	1.94	0.49
5:bt:75:GLN:NE2	5:bt:79:GLU:OE1	2.44	0.49
5:bv:75:GLN:NE2	5:bv:79:GLU:OE1	2.45	0.49
5:cs:55:ILE:O	5:cs:59:ILE:HG12	2.12	0.49
5:dh:75:GLN:NE2	5:dh:79:GLU:OE1	2.45	0.49
5:dx:75:GLN:NE2	5:dx:79:GLU:OE1	2.44	0.49
5:eN:103:LEU:HD12	5:eN:113:ILE:HG23	1.94	0.49
5:eU:57:GLU:HA	5:eU:60:THR:HG22	1.95	0.49
5:eZ:75:GLN:NE2	5:eZ:79:GLU:OE1	2.44	0.49
5:ef:122:VAL:HG11	5:ef:151:LEU:HD13	1.92	0.49
5:et:103:LEU:HD12	5:et:113:ILE:HG23	1.94	0.49
5:fG:86:ILE:HD11	5:fG:118:ARG:HE	1.76	0.49
5:fR:99:ASN:HB3	5:fR:102:VAL:HG22	1.95	0.49
5:fd:103:LEU:HD12	5:fd:113:ILE:HG23	1.94	0.49
5:fz:103:LEU:HD12	5:fz:113:ILE:HG23	1.94	0.49
5:gB:103:LEU:HD12	5:gB:113:ILE:HG23	1.94	0.49
1:AG:194:GLY:HA3	2:Bi:36:ILE:HG23	1.94	0.49
1:AH:65:ASN:ND2	2:Bn:57:ASP:O	2.46	0.49
1:AX:49:TRP:CZ3	1:AX:74:SER:HB3	2.48	0.49
1:As:41:MET:HE2	1:As:83:LYS:HB3	1.94	0.49
1:Au:16:ILE:HD11	1:Au:120:LYS:HE3	1.95	0.49
2:CA:123:LEU:HD13	2:CA:173:VAL:HG11	1.95	0.49
2:CB:165:LYS:HE3	2:CB:168:GLU:HA	1.95	0.49
2:CO:28:ASP:OD2	1:UC:78:ARG:NH1	2.46	0.49
1:Ev:194:GLY:HA3	2:GX:36:ILE:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ey:49:TRP:CZ3	1:Ey:74:SER:HB3	2.47	0.49
1:FM:152:LEU:HD21	2:Gj:105:SER:HA	1.93	0.49
1:Fg:308:ARG:HG3	2:Lh:34:ASN:HD22	1.76	0.49
1:Fz:43:TYR:HE2	1:Fz:45:LYS:HE2	1.76	0.49
1:GF:86:TYR:OH	1:GP:55:ALA:O	2.24	0.49
1:GP:308:ARG:O	2:HQ:34:ASN:ND2	2.42	0.49
1:GS:288:ASP:OD1	1:GS:289:SER:N	2.41	0.49
1:GT:49:TRP:CZ3	1:GT:74:SER:HB3	2.47	0.49
2:HU:133:PRO:HG3	2:HU:161:SER:HA	1.93	0.49
1:KL:244:ARG:NH1	1:KP:210:SER:OG	2.45	0.49
1:Kb:100:THR:HG22	1:Kb:105:ILE:HG23	1.95	0.49
1:Ki:8:TYR:CD2	1:Ki:93:GLN:HG3	2.47	0.49
1:Kv:49:TRP:CE3	1:Kv:74:SER:HB3	2.47	0.49
1:LC:205:VAL:HG12	1:LC:259:ILE:HG23	1.94	0.49
1:LI:49:TRP:CZ3	1:LI:74:SER:HB3	2.47	0.49
2:Lf:165:LYS:HE3	2:Lf:168:GLU:HA	1.95	0.49
2:Lf:180:ASN:O	3:MN:242:ASN:ND2	2.46	0.49
2:Ll:140:ASN:OD1	2:Ll:144:GLU:N	2.42	0.49
1:Ob:196:GLU:HB3	1:Ob:265:ASN:HD22	1.76	0.49
1:Od:164:GLN:HE22	1:Od:308:ARG:HA	1.77	0.49
1:PA:152:LEU:HD21	4:RO:112:SER:HA	1.95	0.49
1:PN:78:ARG:NH1	2:VW:28:ASP:OD2	2.46	0.49
1:PQ:20:VAL:O	5:Sa:213:ARG:NH2	2.45	0.49
1:PX:49:TRP:CZ3	1:PX:74:SER:HB3	2.48	0.49
1:Pd:47:VAL:HG22	1:Pd:76:VAL:HG22	1.94	0.49
1:Pk:49:TRP:CE3	1:Pk:74:SER:HB3	2.47	0.49
1:Po:164:GLN:HE22	1:Po:308:ARG:HA	1.76	0.49
2:QF:23:LYS:N	2:QF:67:TYR:OH	2.45	0.49
2:Qb:77:PHE:CD1	4:RR:138:LYS:HG2	2.48	0.49
1:Tp:107:ASP:OD2	1:Tp:110:ASN:ND2	2.28	0.49
1:Tv:55:ALA:O	1:Tz:86:TYR:OH	2.24	0.49
1:UJ:81:TYR:OH	1:UJ:272:LYS:O	2.29	0.49
1:UM:49:TRP:CZ3	1:UM:74:SER:HB3	2.48	0.49
1:Ub:270:LYS:HG2	1:Ub:272:LYS:HE3	1.94	0.49
2:Up:167:THR:HB	2:Up:170:LEU:HB3	1.94	0.49
2:Uu:23:LYS:N	2:Uu:67:TYR:OH	2.45	0.49
2:VB:181:ARG:NH1	2:VB:182:ALA:O	2.46	0.49
2:Vj:166:LEU:HB2	2:Vj:170:LEU:HD23	1.94	0.49
5:YK:81:GLU:HA	5:YK:84:ASN:ND2	2.27	0.49
5:YN:56:ASN:HA	5:YN:59:ILE:HB	1.94	0.49
5:YU:82:ARG:HH21	5:YU:118:ARG:HH12	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YV:113:ILE:O	5:YV:117:GLN:HG2	2.12	0.49
5:Yi:150:GLN:HB3	5:Yj:134:ILE:HD13	1.94	0.49
5:ZC:135:ALA:HB2	5:ZC:151:LEU:HD11	1.93	0.49
5:ZM:70:GLU:O	5:ZM:74:LYS:HG2	2.11	0.49
5:ZV:103:LEU:HD12	5:ZV:113:ILE:HG23	1.93	0.49
5:ZZ:75:GLN:NE2	5:ZZ:79:GLU:OE1	2.44	0.49
5:Zc:111:LYS:HZ2	5:Zf:74:LYS:HE3	1.78	0.49
5:Zn:99:ASN:HB3	5:Zn:102:VAL:HG22	1.94	0.49
5:Zs:111:LYS:HZ2	5:Zv:74:LYS:HE3	1.78	0.49
5:Zx:103:LEU:HD12	5:Zx:113:ILE:HG23	1.93	0.49
5:Zy:86:ILE:HD11	5:Zy:118:ARG:HE	1.76	0.49
5:bH:75:GLN:NE2	5:bH:79:GLU:OE1	2.44	0.49
5:bJ:75:GLN:NE2	5:bJ:79:GLU:OE1	2.44	0.49
5:bM:103:LEU:HD12	5:bM:113:ILE:HG23	1.95	0.49
5:bd:103:LEU:HD12	5:bd:113:ILE:HG23	1.94	0.49
5:bf:99:ASN:HB3	5:bf:102:VAL:HG22	1.95	0.49
5:bf:103:LEU:HD12	5:bf:113:ILE:HG23	1.94	0.49
5:br:75:GLN:NE2	5:br:79:GLU:OE1	2.44	0.49
5:cb:75:GLN:NE2	5:cb:79:GLU:OE1	2.45	0.49
5:cn:103:LEU:HD12	5:cn:113:ILE:HG23	1.94	0.49
5:cx:75:GLN:NE2	5:cx:79:GLU:OE1	2.44	0.49
5:dB:75:GLN:NE2	5:dB:79:GLU:OE1	2.44	0.49
5:dX:103:LEU:HD12	5:dX:113:ILE:HG23	1.94	0.49
5:dt:103:LEU:HD12	5:dt:113:ILE:HG23	1.94	0.49
5:dv:75:GLN:NE2	5:dv:79:GLU:OE1	2.45	0.49
5:eN:122:VAL:HG11	5:eN:151:LEU:HD13	1.93	0.49
5:eb:75:GLN:NE2	5:eb:79:GLU:OE1	2.44	0.49
5:ep:103:LEU:HD12	5:ep:113:ILE:HG23	1.94	0.49
5:es:86:ILE:HD11	5:es:118:ARG:HE	1.77	0.49
5:fE:98:PHE:HB3	5:fE:117:GLN:HE22	1.77	0.49
5:fH:103:LEU:HD12	5:fH:113:ILE:HG23	1.94	0.49
5:fR:103:LEU:HD12	5:fR:113:ILE:HG23	1.94	0.49
5:fi:86:ILE:HD11	5:fi:118:ARG:HE	1.77	0.49
5:fl:75:GLN:NE2	5:fl:79:GLU:OE1	2.44	0.49
5:fn:75:GLN:NE2	5:fn:79:GLU:OE1	2.44	0.49
5:fy:55:ILE:O	5:fy:59:ILE:HG12	2.12	0.49
5:gC:55:ILE:O	5:gC:59:ILE:HG12	2.12	0.49
1:Aa:79:LEU:HD11	1:Aa:305:LEU:HB2	1.94	0.49
1:BC:52:PHE:HB3	4:DD:41:LYS:HE2	1.95	0.49
1:Ba:66:THR:HG22	2:Cb:52:CYS:HB3	1.94	0.49
1:Bd:16:ILE:HD11	1:Bd:120:LYS:HE3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:137:LEU:HD11	2:CB:159:ALA:HB2	1.93	0.49
4:Cu:161:ILE:O	4:Cu:187:LYS:N	2.40	0.49
4:DH:10:GLU:O	4:DH:14:LYS:HG2	2.12	0.49
1:FH:162:PRO:O	2:Go:31:LEU:HD21	2.12	0.49
1:FO:132:HIS:HA	1:FO:254:LEU:HD13	1.93	0.49
1:FR:85:GLN:NE2	1:FR:298:ASP:OD1	2.41	0.49
1:Ff:66:THR:HG22	4:Hj:52:ARG:HB3	1.94	0.49
1:Fk:81:TYR:OH	1:Fk:272:LYS:O	2.30	0.49
1:Ft:49:TRP:CZ3	1:Ft:74:SER:HB3	2.48	0.49
1:GE:54:ASN:HD22	1:GE:69:THR:C	2.20	0.49
1:GG:49:TRP:CE3	1:GG:74:SER:HB3	2.47	0.49
1:GS:16:ILE:HD11	1:GS:120:LYS:HE3	1.95	0.49
2:HI:181:ARG:HH12	2:HJ:94:LEU:HB3	1.78	0.49
1:Jl:66:THR:HG22	4:MQ:52:ARG:HB3	1.93	0.49
1:Jm:161:MET:SD	2:QK:31:LEU:HD21	2.53	0.49
1:KC:110:ASN:ND2	1:LD:62:ASN:OD1	2.45	0.49
1:KD:306:ALA:O	4:MV:31:LEU:HB2	2.12	0.49
1:KU:13:VAL:HG11	1:KU:281:PRO:HG2	1.94	0.49
1:KY:78:ARG:NH1	2:Qh:28:ASP:OD2	2.46	0.49
1:Kg:194:GLY:HA3	4:Mh:36:ASN:OD1	2.13	0.49
2:Lf:137:LEU:HD11	2:Lf:159:ALA:HB2	1.93	0.49
2:MF:77:PHE:HD2	4:Mk:138:LYS:HG3	1.78	0.49
4:Ml:10:GLU:O	4:Ml:14:LYS:HG2	2.12	0.49
4:Mm:142:ILE:HD11	4:Mm:152:VAL:HG23	1.95	0.49
1:Ob:48:LYS:HZ2	2:Uz:33:SER:H	1.58	0.49
1:Ob:161:MET:SD	2:Uz:31:LEU:HD21	2.53	0.49
1:Ot:79:LEU:HD11	1:Ot:305:LEU:HB2	1.94	0.49
1:PI:307:THR:HB	1:PI:310:THR:HG21	1.95	0.49
1:PV:49:TRP:CE3	1:PV:74:SER:HB3	2.48	0.49
1:Pd:43:TYR:HE2	1:Pd:45:LYS:HE2	1.76	0.49
2:QE:165:LYS:HE3	2:QE:168:GLU:HA	1.95	0.49
2:Qz:76:SER:HB3	2:Qz:87:GLU:HG2	1.94	0.49
2:RA:136:LYS:HD3	2:RA:155:VAL:HG11	1.94	0.49
4:RM:149:LEU:HD13	4:RM:181:VAL:HG21	1.93	0.49
4:Ra:10:GLU:O	4:Ra:14:LYS:HG2	2.12	0.49
1:TI:39:LEU:O	1:TI:274:SER:OG	2.25	0.49
1:Ta:162:PRO:O	2:VH:31:LEU:HD21	2.13	0.49
1:UK:49:TRP:CE3	1:UK:74:SER:HB3	2.48	0.49
1:UX:54:ASN:HD22	1:UX:69:THR:C	2.20	0.49
1:Uh:87:LYS:NZ	2:Vp:53:THR:O	2.32	0.49
2:VN:63:PRO:HB2	2:VN:85:GLU:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WK:20:LYS:HZ1	4:WK:175:GLU:HB2	1.76	0.49
6:Xz:197:LEU:O	6:Xz:201:GLN:HG2	2.13	0.49
5:YR:81:GLU:HA	5:YR:84:ASN:ND2	2.27	0.49
5:YW:103:LEU:HD12	5:YW:113:ILE:HG23	1.95	0.49
5:Yf:135:ALA:HB1	5:Yf:143:ILE:HG12	1.95	0.49
5:Ys:86:ILE:HD11	5:Ys:118:ARG:HE	1.77	0.49
5:ZT:103:LEU:HD12	5:ZT:113:ILE:HG23	1.94	0.49
5:Zs:86:ILE:HD11	5:Zs:118:ARG:HE	1.78	0.49
5:aT:99:ASN:HB3	5:aT:102:VAL:HG22	1.95	0.49
5:ae:86:ILE:HD11	5:ae:118:ARG:HE	1.77	0.49
5:az:99:ASN:HB3	5:az:102:VAL:HG22	1.95	0.49
5:bE:55:ILE:O	5:bE:59:ILE:HG12	2.12	0.49
5:bp:75:GLN:NE2	5:bp:79:GLU:OE1	2.45	0.49
5:cF:103:LEU:HD12	5:cF:113:ILE:HG23	1.95	0.49
5:cL:75:GLN:NE2	5:cL:79:GLU:OE1	2.44	0.49
5:cN:103:LEU:HD12	5:cN:113:ILE:HG23	1.94	0.49
5:cZ:75:GLN:NE2	5:cZ:79:GLU:OE1	2.44	0.49
5:cf:103:LEU:HD12	5:cf:113:ILE:HG23	1.94	0.49
5:cr:99:ASN:HB3	5:cr:102:VAL:HG22	1.95	0.49
5:cw:55:ILE:O	5:cw:59:ILE:HG12	2.12	0.49
5:cz:99:ASN:HB3	5:cz:102:VAL:HG22	1.95	0.49
5:dP:103:LEU:HD12	5:dP:113:ILE:HG23	1.94	0.49
5:dY:98:PHE:HB3	5:dY:117:GLN:HE22	1.77	0.49
5:eE:56:ASN:HB2	5:em:146:GLU:H	1.77	0.49
5:eb:103:LEU:HD12	5:eb:113:ILE:HG23	1.94	0.49
5:ee:55:ILE:O	5:ee:59:ILE:HG12	2.13	0.49
5:ef:99:ASN:HB3	5:ef:102:VAL:HG22	1.95	0.49
5:ev:103:LEU:HD12	5:ev:113:ILE:HG23	1.94	0.49
5:fc:131:ILE:HD13	5:fc:140:ILE:HD11	1.95	0.49
5:fe:131:ILE:HD13	5:fe:140:ILE:HD11	1.95	0.49
5:fo:55:ILE:O	5:fo:59:ILE:HG12	2.11	0.49
5:fp:74:LYS:HE3	5:fq:111:LYS:HZ2	1.78	0.49
5:fu:131:ILE:HD13	5:fu:140:ILE:HD11	1.95	0.49
5:fx:74:LYS:HE3	5:fy:111:LYS:HZ2	1.76	0.49
5:gA:55:ILE:O	5:gA:59:ILE:HG12	2.13	0.49
1:AW:57:PRO:HG2	1:FI:84:LEU:HD13	1.95	0.49
1:As:158:LEU:HB3	1:As:260:LEU:HD21	1.95	0.49
1:BE:49:TRP:CZ3	1:BE:74:SER:HB3	2.48	0.49
1:BF:257:HIS:CE1	1:BF:318:GLN:HG3	2.47	0.49
1:Bc:52:PHE:HB3	4:Cs:41:LYS:HE2	1.94	0.49
1:Be:257:HIS:CE1	1:Be:318:GLN:HG3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bj:23:LYS:N	2:Bj:67:TYR:OH	2.46	0.49
2:CQ:75:LEU:HD22	2:CQ:84:LEU:HD13	1.94	0.49
1:Eq:80:ASN:ND2	1:Eq:153:PRO:O	2.45	0.49
1:Ez:164:GLN:HE22	1:Ez:308:ARG:HA	1.77	0.49
1:FF:87:LYS:NZ	2:Gg:53:THR:O	2.38	0.49
1:FK:86:TYR:OH	1:FN:55:ALA:O	2.25	0.49
1:Fa:174:LYS:O	1:Fa:212:LYS:NZ	2.46	0.49
1:Fb:80:ASN:ND2	1:Fb:153:PRO:O	2.46	0.49
1:Fh:158:LEU:HB3	1:Fh:260:LEU:HD21	1.95	0.49
1:Fy:152:LEU:HD21	2:HM:105:SER:HA	1.95	0.49
1:GQ:161:MET:SD	4:Mm:31:LEU:HD21	2.53	0.49
2:GY:23:LYS:N	2:GY:67:TYR:OH	2.46	0.49
2:Gd:77:PHE:HB2	4:Hc:138:LYS:HD2	1.95	0.49
2:Gi:181:ARG:NH1	2:Gi:182:ALA:O	2.46	0.49
2:Gs:165:LYS:HE3	2:Gs:168:GLU:HA	1.94	0.49
2:HF:75:LEU:HD22	2:HF:84:LEU:HD13	1.94	0.49
2:HW:77:PHE:HD2	4:Hy:138:LYS:HE2	1.78	0.49
4:HZ:77:ILE:HG13	4:HZ:91:PRO:HB3	1.95	0.49
1:Jj:89:ARG:HH21	1:Jj:112:LEU:HD21	1.78	0.49
1:Jl:55:ALA:O	1:Jp:86:TYR:OH	2.27	0.49
1:Jy:164:GLN:HE22	1:Jy:308:ARG:HA	1.78	0.49
1:KC:164:GLN:HE22	1:KC:308:ARG:HA	1.78	0.49
1:KD:132:HIS:HA	1:KD:254:LEU:HD13	1.93	0.49
1:KN:89:ARG:HH21	1:KN:112:LEU:HD21	1.77	0.49
1:Kj:135:LEU:HD21	1:Kj:255:LEU:HG	1.94	0.49
1:Ko:13:VAL:HA	1:Ko:16:ILE:HG22	1.95	0.49
1:LA:140:SER:HB2	1:LA:148:GLN:HG2	1.95	0.49
1:LH:16:ILE:HD11	1:LH:120:LYS:HE3	1.95	0.49
2:LX:167:THR:HG22	2:LX:168:GLU:H	1.77	0.49
2:Lg:123:LEU:HD13	2:Lg:173:VAL:HG11	1.93	0.49
5:OE:193:ASN:HD22	5:cV:162:ARG:NH1	2.09	0.49
1:Oi:109:ASN:O	4:RH:24:ASN:ND2	2.45	0.49
1:Ow:307:THR:HG22	2:Qb:32:LEU:HB2	1.95	0.49
1:PX:87:LYS:NZ	2:Qo:53:THR:O	2.34	0.49
1:PZ:152:LEU:HD21	4:RW:112:SER:HA	1.94	0.49
1:Pi:257:HIS:CE1	1:Pi:318:GLN:HG3	2.47	0.49
2:QE:167:THR:HG22	2:QE:168:GLU:H	1.78	0.49
2:QM:181:ARG:NH1	2:QM:182:ALA:O	2.46	0.49
2:QP:133:PRO:HG3	2:QP:161:SER:HA	1.95	0.49
2:QW:180:ASN:HB2	4:RO:186:ASN:HD21	1.76	0.49
2:Qu:59:ILE:HG22	2:Qu:111:ILE:HG12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TO:194:GLY:HA3	2:Uq:36:ILE:HG23	1.94	0.49
1:Tt:174:LYS:O	1:Tt:212:LYS:NZ	2.46	0.49
1:Tx:307:THR:HB	1:Tx:310:THR:HG21	1.95	0.49
1:Ug:152:LEU:HD21	2:Vn:105:SER:HA	1.93	0.49
1:Ug:277:MET:HA	1:Ug:300:VAL:HB	1.94	0.49
1:Uj:84:LEU:HD13	1:Ul:57:PRO:HB2	1.95	0.49
2:Uw:77:PHE:HB2	4:Vv:138:LYS:HD2	1.95	0.49
2:VB:167:THR:HG22	2:VB:168:GLU:H	1.77	0.49
2:VJ:165:LYS:HE3	2:VJ:168:GLU:HA	1.95	0.49
2:VN:183:ILE:H	4:WE:189:MET:HA	1.78	0.49
4:WO:51:THR:HG21	4:WO:180:LYS:HE3	1.95	0.49
5:Wf:193:ASN:ND2	5:fh:92:ALA:HA	2.28	0.49
6:Xx:269:PHE:N	6:YG:190:LEU:O	2.41	0.49
5:Yg:73:GLU:O	5:Yg:77:LEU:HG	2.12	0.49
5:Yj:119:ARG:NH2	5:Yj:141:SER:O	2.45	0.49
5:Yu:154:LEU:HD13	5:Yv:134:ILE:HD11	1.94	0.49
5:ZT:75:GLN:NE2	5:ZT:79:GLU:OE1	2.45	0.49
5:ZW:55:ILE:O	5:ZW:59:ILE:HG12	2.13	0.49
5:ZX:75:GLN:NE2	5:ZX:79:GLU:OE1	2.45	0.49
5:Zd:103:LEU:HD12	5:Zd:113:ILE:HG23	1.94	0.49
5:Zp:103:LEU:HD12	5:Zp:113:ILE:HG23	1.94	0.49
5:ah:75:GLN:NE2	5:ah:79:GLU:OE1	2.44	0.49
5:ap:103:LEU:HD12	5:ap:113:ILE:HG23	1.94	0.49
5:bB:99:ASN:HB3	5:bB:102:VAL:HG22	1.95	0.49
5:bK:55:ILE:O	5:bK:59:ILE:HG12	2.12	0.49
5:bU:131:ILE:HD13	5:bU:140:ILE:HD11	1.95	0.49
5:cN:99:ASN:HB3	5:cN:102:VAL:HG22	1.95	0.49
5:cT:99:ASN:HB3	5:cT:102:VAL:HG22	1.95	0.49
5:ck:131:ILE:HD13	5:ck:140:ILE:HD11	1.95	0.49
5:cq:55:ILE:O	5:cq:59:ILE:HG12	2.12	0.49
5:dD:103:LEU:HD12	5:dD:113:ILE:HG23	1.94	0.49
5:dL:103:LEU:HD12	5:dL:113:ILE:HG23	1.94	0.49
5:dR:103:LEU:HD12	5:dR:113:ILE:HG23	1.94	0.49
5:do:56:ASN:HB2	5:eW:146:GLU:N	2.27	0.49
5:dx:103:LEU:HD12	5:dx:113:ILE:HG23	1.94	0.49
5:dx:122:VAL:HG11	5:dx:151:LEU:HD13	1.95	0.49
5:dz:75:GLN:NE2	5:dz:79:GLU:OE1	2.44	0.49
5:eD:99:ASN:HB3	5:eD:102:VAL:HG22	1.95	0.49
5:eD:122:VAL:HG11	5:eD:151:LEU:HD13	1.95	0.49
5:ec:55:ILE:O	5:ec:59:ILE:HG12	2.13	0.49
5:el:99:ASN:HB3	5:el:102:VAL:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fJ:103:LEU:HD12	5:fJ:113:ILE:HG23	1.94	0.49
5:fM:86:ILE:HD11	5:fM:118:ARG:HE	1.77	0.49
5:fk:86:ILE:HD11	5:fk:118:ARG:HE	1.76	0.49
5:fr:99:ASN:HB3	5:fr:102:VAL:HG22	1.95	0.49
1:AF:89:ARG:HH21	1:AF:112:LEU:HD21	1.78	0.49
1:AI:57:PRO:HB2	1:FF:84:LEU:HB3	1.94	0.49
1:Am:50:ASP:OD1	1:Am:51:ALA:N	2.46	0.49
1:As:55:ALA:O	1:Az:86:TYR:OH	2.22	0.49
1:Av:307:THR:HG22	2:CF:32:LEU:HB2	1.95	0.49
1:BK:272:LYS:N	1:BK:303:GLY:O	2.38	0.49
1:BV:152:LEU:HD21	4:DH:112:SER:HA	1.93	0.49
2:Bl:69:TYR:HB2	2:Bl:101:ILE:HD12	1.95	0.49
2:CF:63:PRO:HB2	2:CF:85:GLU:HG2	1.94	0.49
2:CK:148:VAL:HG11	2:CK:153:LYS:HD3	1.94	0.49
2:CR:181:ARG:NH2	2:CS:92:ASP:O	2.46	0.49
4:DF:149:LEU:HD13	4:DF:181:VAL:HG21	1.94	0.49
4:DF:161:ILE:HA	4:DF:186:ASN:HA	1.94	0.49
1:Et:164:GLN:HE22	1:Et:308:ARG:HA	1.78	0.49
1:FY:152:LEU:HD21	2:Gt:105:SER:HA	1.94	0.49
1:Ft:79:LEU:HD11	1:Ft:305:LEU:HB2	1.94	0.49
1:Fz:272:LYS:N	1:Fz:303:GLY:O	2.38	0.49
2:HD:156:ASN:ND2	2:HD:180:ASN:O	2.46	0.49
2:HR:52:CYS:HB3	1:Kf:66:THR:HG22	1.95	0.49
4:Hf:31:LEU:HD21	1:Jy:161:MET:SD	2.53	0.49
4:Hi:58:LYS:HD3	4:Hi:119:PRO:HG2	1.95	0.49
1:Jn:152:LEU:HD21	4:MQ:112:SER:HA	1.93	0.49
1:Kb:20:VAL:O	5:Nl:213:ARG:NH2	2.45	0.49
1:Kc:212:LYS:HA	1:Kc:215:LYS:HE3	1.95	0.49
1:Kd:49:TRP:CZ3	1:Kd:74:SER:HB3	2.47	0.49
1:Kf:174:LYS:O	1:Kf:212:LYS:NZ	2.46	0.49
1:Kn:152:LEU:HD21	2:MB:105:SER:HA	1.95	0.49
1:Ko:47:VAL:HG22	1:Ko:76:VAL:HG22	1.94	0.49
1:Kw:49:TRP:CZ3	1:Kw:74:SER:HB3	2.48	0.49
2:LN:23:LYS:N	2:LN:67:TYR:OH	2.46	0.49
2:Lh:180:ASN:HB2	4:MZ:186:ASN:HD21	1.76	0.49
4:MV:51:THR:HG21	4:MV:180:LYS:HE3	1.93	0.49
4:MW:149:LEU:HD13	4:MW:181:VAL:HG21	1.95	0.49
4:Mf:78:GLN:HE22	4:Mf:89:TYR:HB2	1.78	0.49
4:Mi:149:LEU:HD13	4:Mi:181:VAL:HG21	1.95	0.49
4:Mj:149:LEU:HD13	4:Mj:181:VAL:HG21	1.94	0.49
1:PG:87:LYS:NZ	4:RQ:53:THR:O	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PO:307:THR:HG22	2:QY:32:LEU:HB2	1.95	0.49
1:Pd:174:LYS:O	1:Pd:212:LYS:NZ	2.46	0.49
1:Pu:84:LEU:HD13	1:Pw:57:PRO:HB2	1.95	0.49
2:Qm:181:ARG:HH12	2:Qn:94:LEU:HB3	1.78	0.49
4:RM:58:LYS:HD3	4:RM:119:PRO:HG2	1.95	0.49
4:RX:149:LEU:HD13	4:RX:181:VAL:HG21	1.95	0.49
4:RZ:14:LYS:HG3	4:Ra:14:LYS:HG3	1.94	0.49
1:TI:85:GLN:HE22	1:TK:289:SER:HB2	1.77	0.49
1:TS:164:GLN:HE22	1:TS:308:ARG:HA	1.77	0.49
1:Td:87:LYS:NZ	2:VC:53:THR:O	2.31	0.49
1:Tu:80:ASN:ND2	1:Tu:153:PRO:O	2.46	0.49
1:UD:81:TYR:OH	1:UD:272:LYS:O	2.30	0.49
1:UX:66:THR:HG22	2:Vf:52:CYS:HB3	1.95	0.49
2:VI:123:LEU:HD13	2:VI:173:VAL:HG11	1.95	0.49
2:VM:125:LYS:HD2	2:VM:169:ASP:HA	1.94	0.49
4:WB:144:ASN:OD1	4:WB:148:ALA:N	2.43	0.49
4:WB:149:LEU:HD13	4:WB:181:VAL:HG21	1.93	0.49
4:WK:14:LYS:HG3	4:WL:14:LYS:HG3	1.95	0.49
4:WN:149:LEU:HD13	4:WN:181:VAL:HG21	1.94	0.49
4:WO:142:ILE:HD11	4:WO:152:VAL:HG23	1.94	0.49
6:YC:255:GLU:HA	6:YC:258:ARG:HB3	1.95	0.49
5:YS:115:GLN:O	5:YS:119:ARG:HG3	2.12	0.49
5:Yc:73:GLU:O	5:Yc:77:LEU:HG	2.13	0.49
5:Yu:55:ILE:HG21	5:Zm:116:ALA:HB1	1.95	0.49
5:ZF:135:ALA:HB1	5:ZF:143:ILE:HG12	1.95	0.49
5:ZL:128:ILE:O	5:ZL:132:LYS:HG2	2.13	0.49
5:ZQ:131:ILE:HD13	5:ZQ:140:ILE:HD11	1.95	0.49
5:ZW:131:ILE:HD13	5:ZW:140:ILE:HD11	1.95	0.49
5:Zs:55:ILE:O	5:Zs:59:ILE:HG12	2.13	0.49
5:Zs:131:ILE:HD13	5:Zs:140:ILE:HD11	1.95	0.49
5:Zv:103:LEU:HD12	5:Zv:113:ILE:HG23	1.94	0.49
5:Zz:103:LEU:HD12	5:Zz:113:ILE:HG23	1.94	0.49
5:aR:103:LEU:HD12	5:aR:113:ILE:HG23	1.94	0.49
5:at:103:LEU:HD12	5:at:113:ILE:HG23	1.94	0.49
5:bH:99:ASN:HB3	5:bH:102:VAL:HG22	1.95	0.49
5:bk:111:LYS:HZ2	5:bn:74:LYS:HE3	1.78	0.49
5:cM:131:ILE:HD13	5:cM:140:ILE:HD11	1.95	0.49
5:cz:103:LEU:HD12	5:cz:113:ILE:HG23	1.94	0.49
5:dB:103:LEU:HD12	5:dB:113:ILE:HG23	1.94	0.49
5:dS:55:ILE:O	5:dS:59:ILE:HG12	2.13	0.49
5:dU:55:ILE:O	5:dU:59:ILE:HG12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dX:99:ASN:HB3	5:dX:102:VAL:HG22	1.95	0.49
5:de:131:ILE:HD13	5:de:140:ILE:HD11	1.95	0.49
5:dr:75:GLN:NE2	5:dr:79:GLU:OE1	2.45	0.49
5:eC:73:GLU:O	5:eC:77:LEU:HG	2.13	0.49
5:eD:75:GLN:NE2	5:eD:79:GLU:OE1	2.44	0.49
5:eT:103:LEU:HD12	5:eT:113:ILE:HG23	1.94	0.49
5:eY:57:GLU:HA	5:eY:60:THR:HG22	1.95	0.49
5:ei:73:GLU:O	5:ei:77:LEU:HG	2.13	0.49
5:em:116:ALA:HB1	5:fS:55:ILE:HD13	1.95	0.49
5:fA:86:ILE:HD11	5:fA:118:ARG:HE	1.77	0.49
5:fK:131:ILE:HD13	5:fK:140:ILE:HD11	1.95	0.49
5:fL:99:ASN:HB3	5:fL:102:VAL:HG22	1.95	0.49
5:fl:103:LEU:HD12	5:fl:113:ILE:HG23	1.94	0.49
1:AA:75:GLU:CD	2:GU:33:SER:H	2.21	0.49
1:AH:66:THR:HG22	4:Cm:52:ARG:HB3	1.93	0.49
1:AY:80:ASN:ND2	1:AY:154:ASN:HB2	2.27	0.49
1:Aq:66:THR:HG22	4:Cu:52:ARG:HB3	1.94	0.49
1:Au:78:ARG:NH1	2:HD:28:ASP:OD2	2.46	0.49
1:BG:317:LYS:NZ	1:BG:319:SER:OXT	2.45	0.49
2:Bk:167:THR:HG22	2:Bk:168:GLU:H	1.78	0.49
2:CA:125:LYS:NZ	2:CA:169:ASP:OD1	2.38	0.49
2:CC:123:LEU:HD13	2:CC:173:VAL:HG11	1.94	0.49
1:Er:87:LYS:NZ	2:GV:53:THR:O	2.39	0.49
1:Eu:89:ARG:HH21	1:Eu:112:LEU:HD21	1.78	0.49
1:Ew:65:ASN:ND2	2:Gc:57:ASP:O	2.46	0.49
1:FW:101:SER:OG	1:FW:102:ASP:N	2.45	0.49
1:Fi:86:TYR:OH	1:Ka:55:ALA:O	2.23	0.49
1:Fi:286:ASP:HB2	1:Fi:294:HIS:HB2	1.95	0.49
1:Fm:20:VAL:O	5:Iw:213:ARG:NH2	2.45	0.49
1:GL:140:SER:HB2	1:GL:148:GLN:HG2	1.95	0.49
2:GW:167:THR:HB	2:GW:170:LEU:HB3	1.94	0.49
2:Gj:37:ASP:O	2:Gj:41:GLN:NE2	2.46	0.49
2:Gl:133:PRO:HG3	2:Gl:161:SER:HA	1.95	0.49
2:Go:137:LEU:HB3	2:Go:145:LEU:HD22	1.94	0.49
4:Hn:65:LEU:HD12	4:Hn:92:HIS:NE2	2.28	0.49
4:Ht:149:LEU:HD13	4:Ht:181:VAL:HG21	1.95	0.49
1:Jx:59:THR:O	4:MR:61:ASN:ND2	2.46	0.49
1:KA:57:PRO:HG2	1:Om:84:LEU:HD13	1.95	0.49
1:KB:49:TRP:CZ3	1:KB:74:SER:HB3	2.48	0.49
1:KB:86:TYR:OH	1:On:55:ALA:O	2.29	0.49
1:Ki:49:TRP:CZ3	1:Ki:74:SER:HB3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kt:257:HIS:CE1	1:Kt:318:GLN:HG3	2.47	0.49
1:LC:152:LEU:HD21	2:MJ:105:SER:HA	1.93	0.49
1:LE:66:THR:HG22	2:MF:52:CYS:HB3	1.94	0.49
2:LL:167:THR:HB	2:LL:170:LEU:HB3	1.94	0.49
2:LS:77:PHE:HB2	4:MR:138:LYS:HD2	1.95	0.49
2:LX:181:ARG:NH1	2:LX:182:ALA:O	2.46	0.49
2:ML:75:LEU:HD22	2:ML:84:LEU:HD13	1.95	0.49
4:MP:43:VAL:HG11	4:MP:170:LYS:HD3	1.95	0.49
4:MU:31:LEU:HD21	1:On:161:MET:SD	2.53	0.49
1:OX:164:GLN:HE22	1:OX:308:ARG:HA	1.78	0.49
1:Os:77:VAL:HG13	4:RK:29:ALA:O	2.13	0.49
1:PE:174:LYS:O	1:PE:212:LYS:NZ	2.46	0.49
1:PY:257:HIS:CE1	1:PY:318:GLN:HG3	2.47	0.49
1:Pn:41:MET:HE2	1:Pn:83:LYS:H	1.78	0.49
1:Pq:89:ARG:HH21	1:Pq:112:LEU:HD21	1.77	0.49
1:Pt:86:TYR:OH	1:Uf:55:ALA:O	2.31	0.49
2:QL:140:ASN:OD1	2:QL:144:GLU:N	2.46	0.49
2:QT:123:LEU:HD13	2:QT:173:VAL:HG11	1.95	0.49
2:Qm:125:LYS:HD2	2:Qm:169:ASP:HA	1.94	0.49
2:Qr:23:LYS:N	2:Qr:67:TYR:OH	2.46	0.49
2:Qu:166:LEU:HB2	2:Qu:170:LEU:HD23	1.94	0.49
4:RD:77:ILE:HG13	4:RD:91:PRO:HB3	1.95	0.49
1:TP:65:ASN:ND2	2:Uv:57:ASP:O	2.46	0.49
1:Tg:152:LEU:HD21	2:VE:105:SER:HA	1.95	0.49
1:Tp:152:LEU:HD21	4:WD:112:SER:HA	1.95	0.49
1:Tp:244:ARG:NH1	1:Tt:210:SER:OG	2.45	0.49
1:Tw:307:THR:HG22	2:VT:32:LEU:HB2	1.95	0.49
1:Ua:174:LYS:O	1:Ua:212:LYS:NZ	2.46	0.49
1:Ud:164:GLN:HE22	1:Ud:308:ARG:HA	1.76	0.49
2:VK:123:LEU:HD13	2:VK:173:VAL:HG11	1.94	0.49
2:VQ:77:PHE:CD1	4:WG:138:LYS:HG2	2.48	0.49
4:Vv:65:LEU:HD23	4:Vv:92:HIS:CG	2.48	0.49
6:YA:305:GLU:OE1	6:YA:308:THR:N	2.42	0.49
6:YG:207:ALA:O	6:YG:210:SER:OG	2.31	0.49
5:YJ:79:GLU:O	5:YJ:83:ILE:HG12	2.13	0.49
5:YM:115:GLN:O	5:YM:119:ARG:HG3	2.12	0.49
5:YW:131:ILE:HD13	5:YW:140:ILE:HD11	1.94	0.49
5:Yr:99:ASN:HB3	5:Yr:102:VAL:HG22	1.93	0.49
5:Ys:113:ILE:O	5:Ys:117:GLN:HG2	2.13	0.49
5:Zl:103:LEU:HD12	5:Zl:113:ILE:HG23	1.94	0.49
5:Zp:99:ASN:HB3	5:Zp:102:VAL:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Zu:131:ILE:HD13	5:Zu:140:ILE:HD11	1.95	0.49
5:aB:103:LEU:HD12	5:aB:113:ILE:HG23	1.94	0.49
5:aH:103:LEU:HD12	5:aH:113:ILE:HG23	1.94	0.49
5:aV:103:LEU:HD12	5:aV:113:ILE:HG23	1.94	0.49
5:aZ:99:ASN:HB3	5:aZ:102:VAL:HG22	1.95	0.49
5:af:103:LEU:HD12	5:af:113:ILE:HG23	1.94	0.49
5:an:103:LEU:HD12	5:an:113:ILE:HG23	1.94	0.49
5:ay:98:PHE:HB3	5:ay:117:GLN:HE22	1.78	0.49
5:bA:131:ILE:HD13	5:bA:140:ILE:HD11	1.95	0.49
5:bF:99:ASN:HB3	5:bF:102:VAL:HG22	1.95	0.49
5:bL:75:GLN:NE2	5:bL:79:GLU:OE1	2.44	0.49
5:bU:62:GLU:OE1	5:cA:97:HIS:NE2	2.46	0.49
5:bX:103:LEU:HD12	5:bX:113:ILE:HG23	1.95	0.49
5:bg:55:ILE:O	5:bg:59:ILE:HG12	2.12	0.49
5:bi:98:PHE:HB3	5:bi:117:GLN:HE22	1.78	0.49
5:cV:75:GLN:NE2	5:cV:79:GLU:OE1	2.44	0.49
5:cd:103:LEU:HD12	5:cd:113:ILE:HG23	1.94	0.49
5:ci:131:ILE:HD13	5:ci:140:ILE:HD11	1.95	0.49
5:co:55:ILE:O	5:co:59:ILE:HG12	2.12	0.49
5:cp:103:LEU:HD12	5:cp:113:ILE:HG23	1.94	0.49
5:dh:103:LEU:HD12	5:dh:113:ILE:HG23	1.94	0.49
5:dj:75:GLN:NE2	5:dj:79:GLU:OE1	2.45	0.49
5:do:73:GLU:O	5:do:77:LEU:HG	2.13	0.49
5:dy:73:GLU:O	5:dy:77:LEU:HG	2.13	0.49
5:eX:122:VAL:HG11	5:eX:151:LEU:HD13	1.93	0.49
5:eY:73:GLU:O	5:eY:77:LEU:HG	2.13	0.49
5:ea:73:GLU:O	5:ea:77:LEU:HG	2.13	0.49
5:ef:103:LEU:HD12	5:ef:113:ILE:HG23	1.94	0.49
5:eh:99:ASN:HB3	5:eh:102:VAL:HG22	1.95	0.49
5:ey:73:GLU:O	5:ey:77:LEU:HG	2.13	0.49
5:fC:131:ILE:HD13	5:fC:140:ILE:HD11	1.95	0.49
5:fD:103:LEU:HD12	5:fD:113:ILE:HG23	1.94	0.49
5:fQ:73:GLU:O	5:fQ:77:LEU:HG	2.13	0.49
5:fT:103:LEU:HD12	5:fT:113:ILE:HG23	1.94	0.49
5:fe:86:ILE:HD11	5:fe:118:ARG:HE	1.78	0.49
5:fj:74:LYS:HE3	5:fk:111:LYS:HZ2	1.78	0.49
5:fs:86:ILE:HD11	5:fs:118:ARG:HE	1.78	0.49
5:fs:131:ILE:HD13	5:fs:140:ILE:HD11	1.95	0.49
5:fx:99:ASN:HB3	5:fx:102:VAL:HG22	1.95	0.49
5:fx:103:LEU:HD12	5:fx:113:ILE:HG23	1.94	0.49
1:AB:80:ASN:ND2	1:AB:153:PRO:O	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:164:GLN:HE22	1:AK:308:ARG:HA	1.77	0.48
1:AO:205:VAL:HG12	1:AO:259:ILE:HG23	1.94	0.48
1:AQ:84:LEU:HB3	1:TQ:57:PRO:HB2	1.94	0.48
1:Ac:205:VAL:HG12	1:Ac:259:ILE:HG23	1.95	0.48
1:Al:257:HIS:CE1	1:Al:318:GLN:HG3	2.48	0.48
1:Az:49:TRP:CZ3	1:Az:74:SER:HB3	2.47	0.48
1:BT:270:LYS:HG2	1:BT:272:LYS:HE3	1.94	0.48
2:Bo:77:PHE:HB2	4:Cn:138:LYS:HD2	1.95	0.48
2:Bt:125:LYS:HD2	2:Bt:169:ASP:HA	1.95	0.48
2:CY:125:LYS:HD2	2:CY:169:ASP:HA	1.95	0.48
1:FI:59:THR:O	4:Hc:61:ASN:ND2	2.46	0.48
1:FM:49:TRP:CZ3	1:FM:74:SER:HB3	2.48	0.48
1:FN:152:LEU:HD21	2:Gl:105:SER:HA	1.95	0.48
1:FR:49:TRP:CZ3	1:FR:74:SER:HB3	2.47	0.48
1:FT:55:ALA:O	1:FX:86:TYR:OH	2.29	0.48
1:Fz:13:VAL:HA	1:Fz:16:ILE:HG22	1.95	0.48
1:GG:157:GLY:N	1:GG:160:ASN:OD1	2.43	0.48
1:GL:66:THR:HG22	2:HT:52:CYS:HB3	1.94	0.48
2:Gp:123:LEU:HD13	2:Gp:173:VAL:HG11	1.95	0.48
2:HQ:166:LEU:HB2	2:HQ:170:LEU:HD23	1.94	0.48
4:Ha:43:VAL:HG11	4:Ha:170:LYS:HD3	1.95	0.48
1:KB:87:LYS:NZ	4:MU:53:THR:O	2.39	0.48
1:KB:225:SER:HB3	1:LH:224:ALA:HB3	1.95	0.48
1:KO:66:THR:HG22	2:Ll:52:CYS:HB3	1.96	0.48
1:KW:158:LEU:HB3	1:KW:260:LEU:HD21	1.95	0.48
1:KX:286:ASP:HB2	1:KX:294:HIS:HB2	1.95	0.48
1:Ky:196:GLU:HB3	1:Ky:265:ASN:HD22	1.77	0.48
1:LI:142:GLN:O	4:MW:39:ARG:HD2	2.13	0.48
2:LP:167:THR:HG22	2:LP:168:GLU:H	1.78	0.48
2:Ld:137:LEU:HB3	2:Ld:145:LEU:HD22	1.94	0.48
2:Lo:165:LYS:HE3	2:Lo:168:GLU:HA	1.95	0.48
2:Lu:75:LEU:HD22	2:Lu:84:LEU:HD13	1.94	0.48
2:MG:52:CYS:HB3	1:PU:66:THR:HG22	1.95	0.48
5:OE:193:ASN:ND2	5:cV:162:ARG:HD3	2.27	0.48
1:OT:75:GLU:CD	2:Un:33:SER:H	2.21	0.48
1:Oh:205:VAL:HG12	1:Oh:259:ILE:HG23	1.94	0.48
1:Ok:25:MET:HE1	1:Ok:130:ILE:HG22	1.95	0.48
1:Om:59:THR:O	4:RG:61:ASN:ND2	2.46	0.48
1:Op:87:LYS:NZ	2:QO:53:THR:O	2.33	0.48
1:Or:164:GLN:HE22	1:Or:308:ARG:HA	1.78	0.48
1:Ox:286:ASP:HB2	1:Ox:294:HIS:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PH:307:THR:HG22	2:Qe:32:LEU:HB2	1.95	0.48
1:Pd:165:ILE:HD13	1:Pd:191:LEU:HD23	1.95	0.48
1:Pi:26:TYR:O	5:Ss:218:TYR:OH	2.21	0.48
1:Pl:174:LYS:O	1:Pl:212:LYS:NZ	2.46	0.48
2:QD:167:THR:HG22	2:QD:168:GLU:H	1.78	0.48
2:QS:167:THR:HG22	2:QS:168:GLU:H	1.78	0.48
4:RU:78:GLN:HE22	4:RU:89:TYR:HB2	1.78	0.48
4:Rb:142:ILE:HD11	4:Rb:152:VAL:HG23	1.95	0.48
1:Tu:48:LYS:HD2	4:WE:32:LEU:HD23	1.94	0.48
1:UB:135:LEU:HD21	1:UB:255:LEU:HG	1.95	0.48
1:UM:196:GLU:OE1	1:UM:265:ASN:ND2	2.43	0.48
1:US:87:LYS:NZ	2:Vh:53:THR:O	2.28	0.48
1:Uc:41:MET:HE2	1:Uc:83:LYS:H	1.78	0.48
1:Uk:89:ARG:HH21	1:Uk:112:LEU:HD21	1.77	0.48
2:Ut:165:LYS:HE3	2:Ut:168:GLU:HA	1.95	0.48
2:VJ:138:ASN:HD22	2:VJ:153:LYS:HE2	1.78	0.48
6:YE:195:GLU:CA	6:YE:199:GLN:HG2	2.38	0.48
6:YE:196:SER:HB3	6:YE:198:VAL:HG22	1.95	0.48
6:YG:197:LEU:O	6:YG:201:GLN:HG2	2.13	0.48
5:YO:115:GLN:O	5:YO:119:ARG:HG3	2.13	0.48
5:Yt:99:ASN:HB3	5:Yt:102:VAL:HG22	1.94	0.48
5:Za:103:LEU:HD12	5:Za:113:ILE:HG23	1.94	0.48
5:Zd:75:GLN:NE2	5:Zd:79:GLU:OE1	2.45	0.48
5:Zj:103:LEU:HD12	5:Zj:113:ILE:HG23	1.94	0.48
5:Zl:75:GLN:NE2	5:Zl:79:GLU:OE1	2.44	0.48
5:Zm:73:GLU:O	5:Zm:77:LEU:HG	2.13	0.48
5:aF:103:LEU:HD12	5:aF:113:ILE:HG23	1.94	0.48
5:aK:131:ILE:HD13	5:aK:140:ILE:HD11	1.95	0.48
5:aQ:131:ILE:HD13	5:aQ:140:ILE:HD11	1.95	0.48
5:aV:99:ASN:HB3	5:aV:102:VAL:HG22	1.95	0.48
5:aW:55:ILE:O	5:aW:59:ILE:HG12	2.13	0.48
5:aa:55:ILE:O	5:aa:59:ILE:HG12	2.13	0.48
5:ac:131:ILE:HD13	5:ac:140:ILE:HD11	1.95	0.48
5:ad:103:LEU:HD12	5:ad:113:ILE:HG23	1.94	0.48
5:aj:103:LEU:HD12	5:aj:113:ILE:HG23	1.94	0.48
5:be:73:GLU:O	5:be:77:LEU:HG	2.13	0.48
5:bh:99:ASN:HB3	5:bh:102:VAL:HG22	1.95	0.48
5:bi:55:ILE:O	5:bi:59:ILE:HG12	2.12	0.48
5:bk:131:ILE:HD13	5:bk:140:ILE:HD11	1.95	0.48
5:cH:99:ASN:HB3	5:cH:102:VAL:HG22	1.94	0.48
5:cH:103:LEU:HD12	5:cH:113:ILE:HG23	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:cI:73:GLU:O	5:cI:77:LEU:HG	2.13	0.48
5:cJ:75:GLN:NE2	5:cJ:79:GLU:OE1	2.45	0.48
5:cV:103:LEU:HD12	5:cV:113:ILE:HG23	1.94	0.48
5:cX:75:GLN:NE2	5:cX:79:GLU:OE1	2.44	0.48
5:cp:99:ASN:HB3	5:cp:102:VAL:HG22	1.95	0.48
5:cu:55:ILE:O	5:cu:59:ILE:HG12	2.12	0.48
5:dE:131:ILE:HD13	5:dE:140:ILE:HD11	1.95	0.48
5:dd:99:ASN:HB3	5:dd:102:VAL:HG22	1.95	0.48
5:dd:103:LEU:HD12	5:dd:113:ILE:HG23	1.94	0.48
5:di:57:GLU:HA	5:di:60:THR:HG22	1.95	0.48
5:dq:73:GLU:O	5:dq:77:LEU:HG	2.13	0.48
5:ds:73:GLU:O	5:ds:77:LEU:HG	2.13	0.48
5:du:73:GLU:O	5:du:77:LEU:HG	2.13	0.48
5:dw:73:GLU:O	5:dw:77:LEU:HG	2.13	0.48
5:eB:99:ASN:HB3	5:eB:102:VAL:HG22	1.95	0.48
5:eS:73:GLU:O	5:eS:77:LEU:HG	2.13	0.48
5:ej:103:LEU:HD12	5:ej:113:ILE:HG23	1.94	0.48
5:eq:98:PHE:HB3	5:eq:117:GLN:HE22	1.78	0.48
5:ew:131:ILE:HD13	5:ew:140:ILE:HD11	1.95	0.48
5:fF:103:LEU:HD12	5:fF:113:ILE:HG23	1.94	0.48
5:fU:73:GLU:O	5:fU:77:LEU:HG	2.13	0.48
5:fW:86:ILE:HD11	5:fW:118:ARG:HE	1.77	0.48
5:fi:73:GLU:O	5:fi:77:LEU:HG	2.13	0.48
5:fn:103:LEU:HD12	5:fn:113:ILE:HG23	1.94	0.48
1:AM:24:ILE:HG12	1:AM:131:ASN:ND2	2.28	0.48
1:AM:41:MET:HE3	1:AM:82:LEU:HD12	1.95	0.48
1:AN:86:TYR:OH	1:AT:55:ALA:O	2.29	0.48
1:AS:261:ILE:HD12	1:AS:312:LEU:HD23	1.95	0.48
1:AT:59:THR:O	4:Cn:61:ASN:ND2	2.46	0.48
1:Ak:66:THR:HG22	2:CH:52:CYS:HB3	1.95	0.48
1:Ak:164:GLN:HE22	1:Ak:308:ARG:HA	1.78	0.48
1:Ao:59:THR:O	2:CM:61:ASN:ND2	2.46	0.48
1:BF:26:TYR:O	5:EP:218:TYR:OH	2.26	0.48
1:BH:288:ASP:OD1	1:BH:289:SER:N	2.41	0.48
1:BK:174:LYS:O	1:BK:212:LYS:NZ	2.46	0.48
1:BP:54:ASN:HD22	1:BP:69:THR:C	2.20	0.48
1:BR:157:GLY:N	1:BR:160:ASN:OD1	2.43	0.48
2:CK:165:LYS:HE3	2:CK:168:GLU:HA	1.95	0.48
2:Cg:125:LYS:HD2	2:Cg:169:ASP:HA	1.95	0.48
4:Cn:65:LEU:HD23	4:Cn:92:HIS:CG	2.48	0.48
1:FG:25:MET:HE1	1:FG:130:ILE:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FH:59:THR:O	4:Hh:61:ASN:ND2	2.45	0.48
1:FR:205:VAL:HG12	1:FR:259:ILE:HG23	1.95	0.48
1:Fi:307:THR:HG22	4:Hm:32:LEU:HB2	1.94	0.48
1:GI:270:LYS:HG2	1:GI:272:LYS:HE3	1.94	0.48
1:GQ:296:TYR:HE2	1:GS:67:ILE:HG13	1.78	0.48
2:Gr:123:LEU:HD13	2:Gr:173:VAL:HG11	1.94	0.48
2:HN:23:LYS:N	2:HN:67:TYR:OH	2.46	0.48
2:HV:125:LYS:HD2	2:HV:169:ASP:HA	1.95	0.48
1:KC:80:ASN:ND2	1:KC:154:ASN:HB2	2.27	0.48
1:KI:286:ASP:HB2	1:KI:294:HIS:HB2	1.95	0.48
1:KQ:50:ASP:OD1	1:KQ:51:ALA:N	2.46	0.48
1:KQ:86:TYR:OH	1:KT:55:ALA:O	2.21	0.48
1:Kv:157:GLY:N	1:Kv:160:ASN:OD1	2.43	0.48
1:LF:296:TYR:HE2	1:LH:67:ILE:HG13	1.78	0.48
2:Lj:63:PRO:HB2	2:Lj:85:GLU:HG2	1.94	0.48
2:Lx:181:ARG:HH12	2:Ly:94:LEU:HB3	1.78	0.48
2:MA:165:LYS:HE3	2:MA:168:GLU:HA	1.96	0.48
4:MX:58:LYS:HD3	4:MX:119:PRO:HG2	1.95	0.48
1:On:164:GLN:HE22	1:On:308:ARG:HA	1.78	0.48
1:PH:59:THR:O	2:Qf:61:ASN:ND2	2.46	0.48
1:PU:86:TYR:OH	1:Pe:55:ALA:O	2.23	0.48
1:PX:55:ALA:O	1:Pb:86:TYR:OH	2.21	0.48
1:Pd:13:VAL:HA	1:Pd:16:ILE:HG22	1.95	0.48
1:Pi:24:ILE:HG12	1:Pi:131:ASN:ND2	2.28	0.48
1:Pr:152:LEU:HD21	2:Qy:105:SER:HA	1.93	0.48
1:Pv:89:ARG:HH21	1:Pv:112:LEU:HD21	1.77	0.48
2:QC:23:LYS:N	2:QC:67:TYR:OH	2.46	0.48
2:QM:183:ILE:HD12	4:RI:188:ALA:HB3	1.94	0.48
2:Qd:165:LYS:HE3	2:Qd:168:GLU:HA	1.95	0.48
2:Qj:75:LEU:HD22	2:Qj:84:LEU:HD13	1.94	0.48
4:RE:43:VAL:HG11	4:RE:170:LYS:HD3	1.95	0.48
4:RG:65:LEU:HD23	4:RG:92:HIS:CG	2.48	0.48
4:RZ:51:THR:HG21	4:RZ:180:LYS:HE3	1.95	0.48
1:Tb:59:THR:O	4:Vv:61:ASN:ND2	2.46	0.48
1:Tt:257:HIS:CE1	1:Tt:318:GLN:HG3	2.48	0.48
1:Tw:59:THR:O	2:VU:61:ASN:ND2	2.46	0.48
1:Ty:66:THR:HG22	4:WC:52:ARG:HB3	1.94	0.48
1:UX:24:ILE:HG12	1:UX:131:ASN:ND2	2.28	0.48
4:WJ:78:GLN:HE22	4:WJ:89:TYR:HB2	1.78	0.48
6:YB:168:LEU:HD11	6:YC:181:GLU:HG3	1.95	0.48
5:YJ:55:ILE:O	5:YJ:59:ILE:HG12	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YR:56:ASN:HA	5:YR:59:ILE:HD12	1.93	0.48
5:Ya:55:ILE:HD11	5:ZI:98:PHE:CD2	2.48	0.48
5:Yi:131:ILE:O	5:Yi:135:ALA:HB3	2.12	0.48
5:Yk:62:GLU:OE1	5:ZQ:97:HIS:NE2	2.46	0.48
5:Yv:76:LEU:HD22	5:Yw:76:LEU:HD21	1.94	0.48
5:ZK:86:ILE:HD11	5:ZK:118:ARG:HE	1.78	0.48
5:Zf:75:GLN:NE2	5:Zf:79:GLU:OE1	2.45	0.48
5:Zo:73:GLU:O	5:Zo:77:LEU:HG	2.14	0.48
5:Zw:86:ILE:HD11	5:Zw:118:ARG:HE	1.78	0.48
5:aI:73:GLU:O	5:aI:77:LEU:HG	2.14	0.48
5:aJ:103:LEU:HD12	5:aJ:113:ILE:HG23	1.94	0.48
5:aM:73:GLU:O	5:aM:77:LEU:HG	2.14	0.48
5:aZ:75:GLN:NE2	5:aZ:79:GLU:OE1	2.44	0.48
5:ab:103:LEU:HD12	5:ab:113:ILE:HG23	1.94	0.48
5:ag:131:ILE:HD13	5:ag:140:ILE:HD11	1.95	0.48
5:ah:103:LEU:HD12	5:ah:113:ILE:HG23	1.94	0.48
5:ao:131:ILE:HD13	5:ao:140:ILE:HD11	1.95	0.48
5:bT:75:GLN:NE2	5:bT:79:GLU:OE1	2.44	0.48
5:bW:73:GLU:O	5:bW:77:LEU:HG	2.13	0.48
5:bp:103:LEU:HD12	5:bp:113:ILE:HG23	1.95	0.48
5:bw:131:ILE:HD13	5:bw:140:ILE:HD11	1.96	0.48
5:cB:103:LEU:HD12	5:cB:113:ILE:HG23	1.94	0.48
5:cE:55:ILE:HG21	5:ck:116:ALA:HB2	1.95	0.48
5:cJ:103:LEU:HD12	5:cJ:113:ILE:HG23	1.94	0.48
5:cL:103:LEU:HD12	5:cL:113:ILE:HG23	1.95	0.48
5:cW:131:ILE:HD13	5:cW:140:ILE:HD11	1.95	0.48
5:cX:99:ASN:HB3	5:cX:102:VAL:HG22	1.95	0.48
5:cY:131:ILE:HD13	5:cY:140:ILE:HD11	1.95	0.48
5:cj:103:LEU:HD12	5:cj:113:ILE:HG23	1.94	0.48
5:cq:131:ILE:HD13	5:cq:140:ILE:HD11	1.95	0.48
5:cw:111:LYS:HZ2	5:cz:74:LYS:HE3	1.78	0.48
5:dD:75:GLN:NE2	5:dD:79:GLU:OE1	2.44	0.48
5:dI:86:ILE:HD11	5:dI:118:ARG:HE	1.78	0.48
5:dj:103:LEU:HD12	5:dj:113:ILE:HG23	1.94	0.48
5:eH:99:ASN:HB3	5:eH:102:VAL:HG22	1.95	0.48
5:eJ:99:ASN:HB3	5:eJ:102:VAL:HG22	1.95	0.48
5:eR:103:LEU:HD12	5:eR:113:ILE:HG23	1.94	0.48
5:eX:103:LEU:HD12	5:eX:113:ILE:HG23	1.94	0.48
5:eh:103:LEU:HD12	5:eh:113:ILE:HG23	1.94	0.48
5:el:103:LEU:HD12	5:el:113:ILE:HG23	1.94	0.48
5:en:99:ASN:HB3	5:en:102:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eq:116:ALA:HB1	5:fW:55:ILE:HD13	1.96	0.48
5:fA:73:GLU:O	5:fA:77:LEU:HG	2.14	0.48
5:fN:99:ASN:HB3	5:fN:102:VAL:HG22	1.95	0.48
5:fS:73:GLU:O	5:fS:77:LEU:HG	2.13	0.48
5:fg:73:GLU:O	5:fg:77:LEU:HG	2.13	0.48
5:fh:75:GLN:NE2	5:fh:79:GLU:OE1	2.44	0.48
5:fj:75:GLN:NE2	5:fj:79:GLU:OE1	2.44	0.48
5:fp:99:ASN:HB3	5:fp:102:VAL:HG22	1.95	0.48
5:fp:103:LEU:HD12	5:fp:113:ILE:HG23	1.94	0.48
5:fq:73:GLU:O	5:fq:77:LEU:HG	2.13	0.48
5:fq:86:ILE:HD11	5:fq:118:ARG:HE	1.77	0.48
5:fy:73:GLU:O	5:fy:77:LEU:HG	2.14	0.48
1:Ac:49:TRP:CZ3	1:Ac:74:SER:HB3	2.47	0.48
1:Ah:259:ILE:HB	1:Ah:314:VAL:HB	1.96	0.48
1:Ak:55:ALA:HB2	2:CH:51:VAL:HB	1.95	0.48
1:Ao:161:MET:HE3	1:Ao:306:ALA:HB3	1.95	0.48
1:BB:174:LYS:O	1:BB:212:LYS:NZ	2.46	0.48
1:BO:257:HIS:CE1	1:BO:318:GLN:HG3	2.49	0.48
2:Bu:37:ASP:O	2:Bu:41:GLN:NE2	2.46	0.48
2:CO:156:ASN:ND2	2:CO:180:ASN:O	2.46	0.48
2:CW:165:LYS:HE3	2:CW:168:GLU:HA	1.96	0.48
4:Cy:65:LEU:HD12	4:Cy:92:HIS:NE2	2.28	0.48
4:DE:149:LEU:HD13	4:DE:181:VAL:HG21	1.95	0.48
4:DG:14:LYS:HG3	4:DH:14:LYS:HG3	1.94	0.48
1:FB:41:MET:HE3	1:FB:82:LEU:HD12	1.95	0.48
1:FB:54:ASN:HA	2:Gb:42:ASN:HD22	1.78	0.48
1:FX:48:LYS:HE2	1:FX:75:GLU:HB2	1.95	0.48
1:FZ:66:THR:HG22	2:Gw:52:CYS:HB3	1.96	0.48
1:Fo:49:TRP:CZ3	1:Fo:74:SER:HB3	2.47	0.48
1:Fu:135:LEU:HD21	1:Fu:255:LEU:HG	1.94	0.48
1:GG:52:PHE:HB3	4:Hw:41:LYS:HE2	1.94	0.48
1:GO:13:VAL:HA	1:GO:16:ILE:HG22	1.96	0.48
1:GQ:84:LEU:HD13	1:GS:57:PRO:HB2	1.95	0.48
2:GX:180:ASN:O	2:GY:180:ASN:ND2	2.39	0.48
2:Gq:165:LYS:HE3	2:Gq:168:GLU:HA	1.95	0.48
2:Gz:148:VAL:HG11	2:Gz:153:LYS:HD3	1.94	0.48
4:Hl:28:ASP:OD1	4:Hl:28:ASP:N	2.45	0.48
4:Hu:161:ILE:HA	4:Hu:186:ASN:HA	1.94	0.48
4:Hv:51:THR:HG21	4:Hv:180:LYS:HE3	1.95	0.48
1:Jw:261:ILE:HD12	1:Jw:312:LEU:HD23	1.95	0.48
1:KM:48:LYS:HE2	1:KM:75:GLU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KX:307:THR:HG22	4:Mb:32:LEU:HB2	1.94	0.48
1:KY:16:ILE:HD11	1:KY:120:LYS:HE3	1.95	0.48
1:Ko:165:ILE:HD13	1:Ko:191:LEU:HD23	1.95	0.48
1:Ks:257:HIS:CE1	1:Ks:318:GLN:HG3	2.49	0.48
1:LF:84:LEU:HD13	1:LH:57:PRO:HB2	1.95	0.48
4:MS:141:LEU:HD11	4:MS:165:ALA:HB2	1.95	0.48
4:Mg:14:LYS:HG3	4:Mh:14:LYS:HG3	1.95	0.48
1:Oh:55:ALA:O	1:Ol:86:TYR:OH	2.17	0.48
1:Oq:49:TRP:CZ3	1:Oq:74:SER:HB3	2.48	0.48
1:Ph:107:ASP:OD2	1:Ph:110:ASN:ND2	2.31	0.48
2:QA:167:THR:HB	2:QA:170:LEU:HB3	1.94	0.48
2:Qd:148:VAL:HG11	2:Qd:153:LYS:HD3	1.95	0.48
2:Qm:167:THR:HG22	2:Qm:168:GLU:H	1.79	0.48
2:RA:75:LEU:HD22	2:RA:84:LEU:HD13	1.95	0.48
1:TW:205:VAL:HG12	1:TW:259:ILE:HG23	1.94	0.48
1:Ts:164:GLN:HE22	1:Ts:308:ARG:HA	1.78	0.48
1:UI:26:TYR:O	5:XS:218:TYR:OH	2.23	0.48
1:US:165:ILE:HD13	1:US:191:LEU:HD23	1.95	0.48
1:US:174:LYS:O	1:US:212:LYS:NZ	2.46	0.48
1:Uc:196:GLU:HB3	1:Uc:265:ASN:HD22	1.77	0.48
2:Uz:167:THR:HB	2:Uz:170:LEU:HB3	1.96	0.48
2:VH:167:THR:HG22	2:VH:168:GLU:H	1.78	0.48
2:Vo:76:SER:HB3	2:Vo:87:GLU:HG2	1.94	0.48
4:WB:58:LYS:HD3	4:WB:119:PRO:HG2	1.95	0.48
6:YC:35:ASP:OD2	6:YC:329:TYR:OH	2.20	0.48
6:YH:258:ARG:HH22	6:YI:250:ASP:HA	1.78	0.48
5:YS:118:ARG:O	5:YS:122:VAL:HG23	2.13	0.48
5:YX:111:LYS:NZ	5:YY:74:LYS:HE3	2.29	0.48
5:ZB:128:ILE:O	5:ZB:132:LYS:HG2	2.13	0.48
5:ZC:131:ILE:HD13	5:ZC:140:ILE:HD11	1.96	0.48
5:ZH:99:ASN:HB3	5:ZH:102:VAL:HG22	1.94	0.48
5:ZR:103:LEU:HD12	5:ZR:113:ILE:HG23	1.94	0.48
5:ZV:99:ASN:HB3	5:ZV:102:VAL:HG22	1.95	0.48
5:Zj:75:GLN:NE2	5:Zj:79:GLU:OE1	2.44	0.48
5:Zj:99:ASN:HB3	5:Zj:102:VAL:HG22	1.95	0.48
5:Zn:75:GLN:NE2	5:Zn:79:GLU:OE1	2.44	0.48
5:Zq:131:ILE:HD13	5:Zq:140:ILE:HD11	1.96	0.48
5:Zr:99:ASN:HB3	5:Zr:102:VAL:HG22	1.95	0.48
5:Zu:55:ILE:O	5:Zu:59:ILE:HG12	2.13	0.48
5:aB:99:ASN:HB3	5:aB:102:VAL:HG22	1.95	0.48
5:aG:73:GLU:O	5:aG:77:LEU:HG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:aQ:73:GLU:O	5:aQ:77:LEU:HG	2.14	0.48
5:aZ:103:LEU:HD12	5:aZ:113:ILE:HG23	1.94	0.48
5:av:99:ASN:HB3	5:av:102:VAL:HG22	1.95	0.48
5:bF:103:LEU:HD12	5:bF:113:ILE:HG23	1.94	0.48
5:bP:75:GLN:NE2	5:bP:79:GLU:OE1	2.44	0.48
5:bb:103:LEU:HD12	5:bb:113:ILE:HG23	1.95	0.48
5:bk:55:ILE:O	5:bk:59:ILE:HG12	2.13	0.48
5:bl:99:ASN:HB3	5:bl:102:VAL:HG22	1.95	0.48
5:bn:103:LEU:HD12	5:bn:113:ILE:HG23	1.95	0.48
5:bo:111:LYS:HZ2	5:br:74:LYS:HE3	1.78	0.48
5:br:103:LEU:HD12	5:br:113:ILE:HG23	1.95	0.48
5:bw:111:LYS:HZ2	5:bz:74:LYS:HE3	1.79	0.48
5:by:131:ILE:HD13	5:by:140:ILE:HD11	1.96	0.48
5:cA:73:GLU:O	5:cA:77:LEU:HG	2.14	0.48
5:cJ:99:ASN:HB3	5:cJ:102:VAL:HG22	1.95	0.48
5:cX:103:LEU:HD12	5:cX:113:ILE:HG23	1.94	0.48
5:ck:73:GLU:O	5:ck:77:LEU:HG	2.13	0.48
5:ct:99:ASN:HB3	5:ct:102:VAL:HG22	1.95	0.48
5:dK:55:ILE:HD13	5:dq:116:ALA:HB1	1.95	0.48
5:dQ:55:ILE:O	5:dQ:59:ILE:HG12	2.12	0.48
5:dW:98:PHE:HB3	5:dW:117:GLN:HE22	1.77	0.48
5:df:103:LEU:HD12	5:df:113:ILE:HG23	1.94	0.48
5:dm:73:GLU:O	5:dm:77:LEU:HG	2.14	0.48
5:ds:56:ASN:HB2	5:ea:146:GLU:N	2.27	0.48
5:dy:57:GLU:HA	5:dy:60:THR:HG22	1.95	0.48
5:dz:103:LEU:HD12	5:dz:113:ILE:HG23	1.94	0.48
5:eM:73:GLU:O	5:eM:77:LEU:HG	2.14	0.48
5:eO:73:GLU:O	5:eO:77:LEU:HG	2.14	0.48
5:eQ:73:GLU:O	5:eQ:77:LEU:HG	2.14	0.48
5:eg:73:GLU:O	5:eg:77:LEU:HG	2.13	0.48
5:ei:55:ILE:O	5:ei:59:ILE:HG12	2.12	0.48
5:eq:73:GLU:O	5:eq:77:LEU:HG	2.14	0.48
5:eu:73:GLU:O	5:eu:77:LEU:HG	2.13	0.48
5:fC:116:ALA:HB1	5:fi:55:ILE:HD13	1.95	0.48
5:fF:99:ASN:HB3	5:fF:102:VAL:HG22	1.95	0.48
5:fI:73:GLU:O	5:fI:77:LEU:HG	2.13	0.48
5:fM:131:ILE:HD13	5:fM:140:ILE:HD11	1.96	0.48
5:fP:75:GLN:NE2	5:fP:79:GLU:OE1	2.44	0.48
5:fP:99:ASN:HB3	5:fP:102:VAL:HG22	1.94	0.48
5:fT:99:ASN:HB3	5:fT:102:VAL:HG22	1.95	0.48
5:fW:73:GLU:O	5:fW:77:LEU:HG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fW:131:ILE:HD13	5:fW:140:ILE:HD11	1.95	0.48
5:fY:55:ILE:O	5:fY:59:ILE:HG12	2.12	0.48
5:fY:86:ILE:HD11	5:fY:118:ARG:HE	1.78	0.48
5:fZ:103:LEU:HD12	5:fZ:113:ILE:HG23	1.94	0.48
5:fq:55:ILE:O	5:fq:59:ILE:HG12	2.12	0.48
5:fz:99:ASN:HB3	5:fz:102:VAL:HG22	1.95	0.48
1:AF:77:VAL:HG21	2:Bh:32:LEU:HD23	1.96	0.48
1:AS:13:VAL:HG11	1:AS:281:PRO:HG2	1.95	0.48
1:Aa:49:TRP:CZ3	1:Aa:74:SER:HB3	2.48	0.48
1:Ad:84:LEU:HB3	1:Ag:57:PRO:HB2	1.94	0.48
1:Ad:307:THR:HG22	2:CI:32:LEU:HB2	1.95	0.48
1:Ay:29:PHE:O	5:EI:223:ARG:NH2	2.45	0.48
1:Ay:212:LYS:HA	1:Ay:215:LYS:HE3	1.95	0.48
1:BK:165:ILE:HD13	1:BK:191:LEU:HD23	1.95	0.48
1:BP:85:GLN:NE2	1:BP:298:ASP:OD1	2.46	0.48
2:Bt:181:ARG:NH1	2:Bt:182:ALA:O	2.46	0.48
2:Bw:133:PRO:HG3	2:Bw:161:SER:HA	1.95	0.48
2:CT:167:THR:HG22	2:CT:168:GLU:H	1.79	0.48
2:Cb:59:ILE:HG22	2:Cb:111:ILE:HG12	1.95	0.48
1:FB:24:ILE:HG12	1:FB:131:ASN:ND2	2.28	0.48
1:FS:84:LEU:HB3	1:FV:57:PRO:HB2	1.94	0.48
1:FS:307:THR:HG22	2:Gx:32:LEU:HB2	1.95	0.48
1:FT:286:ASP:HB2	1:FT:294:HIS:HB2	1.95	0.48
1:FZ:164:GLN:HE22	1:FZ:308:ARG:HA	1.78	0.48
1:Fi:26:TYR:O	5:Is:218:TYR:OH	2.29	0.48
1:Fy:135:LEU:HD21	1:Fy:255:LEU:HG	1.96	0.48
1:GE:24:ILE:HG12	1:GE:131:ASN:ND2	2.28	0.48
1:GE:196:GLU:HB3	1:GE:265:ASN:HD22	1.79	0.48
1:GO:87:LYS:NZ	2:HW:53:THR:O	2.32	0.48
2:Gg:183:ILE:N	4:Hd:188:ALA:O	2.40	0.48
4:Hx:142:ILE:HD11	4:Hx:152:VAL:HG23	1.95	0.48
1:Jk:41:MET:HE3	1:Jk:83:LYS:HB3	1.94	0.48
1:Jq:54:ASN:HA	2:LQ:42:ASN:HD22	1.78	0.48
1:Js:205:VAL:HG12	1:Js:259:ILE:HG23	1.94	0.48
1:Jz:307:THR:HG22	2:LR:32:LEU:HB2	1.96	0.48
1:KC:133:PHE:O	1:KC:137:GLY:N	2.37	0.48
1:KD:152:LEU:HD21	4:MW:112:SER:HA	1.94	0.48
1:KX:135:LEU:HD21	1:KX:255:LEU:HG	1.95	0.48
1:KZ:87:LYS:NZ	4:Md:53:THR:O	2.38	0.48
1:KZ:307:THR:HG22	2:Lj:32:LEU:HB2	1.95	0.48
1:Ko:174:LYS:O	1:Ko:212:LYS:NZ	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LP:69:TYR:HB2	2:LP:101:ILE:HD12	1.95	0.48
2:LY:37:ASP:O	2:LY:41:GLN:NE2	2.46	0.48
2:Le:123:LEU:HD13	2:Le:173:VAL:HG11	1.95	0.48
2:Lf:138:ASN:HD22	2:Lf:153:LYS:HE2	1.79	0.48
2:Lr:76:SER:HB3	2:Lr:87:GLU:HG2	1.95	0.48
2:Lv:181:ARG:NH2	2:Lw:92:ASP:O	2.46	0.48
2:MF:59:ILE:HG22	2:MF:111:ILE:HG12	1.95	0.48
1:OY:77:VAL:HG21	2:QA:32:LEU:HD23	1.96	0.48
1:Oc:152:LEU:HD21	4:RF:112:SER:HA	1.93	0.48
1:Ol:261:ILE:HD12	1:Ol:312:LEU:HD23	1.95	0.48
1:Om:49:TRP:CZ3	1:Om:74:SER:HB3	2.49	0.48
1:Oo:152:LEU:HD21	2:QO:105:SER:HA	1.96	0.48
1:Op:57:PRO:HG2	1:Tb:84:LEU:HD13	1.94	0.48
1:Or:152:LEU:HD21	2:QP:105:SER:HA	1.95	0.48
1:Pe:110:ASN:OD1	1:Ph:62:ASN:ND2	2.47	0.48
1:Pt:66:THR:HG22	2:Qu:52:CYS:HB3	1.94	0.48
2:QM:167:THR:HG22	2:QM:168:GLU:H	1.77	0.48
1:TJ:80:ASN:ND2	1:TJ:153:PRO:O	2.45	0.48
1:TW:66:THR:HG22	4:Vx:52:ARG:HD2	1.94	0.48
1:Ta:261:ILE:HD12	1:Ta:312:LEU:HD23	1.95	0.48
1:Tc:164:GLN:HE22	1:Tc:308:ARG:HA	1.78	0.48
1:Tf:49:TRP:CZ3	1:Tf:74:SER:HB3	2.48	0.48
1:Ts:55:ALA:HB2	2:VP:51:VAL:HB	1.95	0.48
1:Tw:161:MET:HE3	1:Tw:306:ALA:HB3	1.96	0.48
1:UO:26:TYR:O	5:XY:218:TYR:OH	2.30	0.48
2:Vg:23:LYS:N	2:Vg:67:TYR:OH	2.46	0.48
5:YQ:157:VAL:HG21	5:YT:134:ILE:HD13	1.95	0.48
5:YR:56:ASN:HA	5:YR:59:ILE:HB	1.94	0.48
5:YY:83:ILE:HA	5:YY:114:MET:HE2	1.95	0.48
5:Yg:55:ILE:HG22	5:Yy:115:GLN:NE2	2.28	0.48
5:ZB:112:ASP:OD1	5:ZB:115:GLN:NE2	2.47	0.48
5:ZY:73:GLU:O	5:ZY:77:LEU:HG	2.14	0.48
5:Zg:73:GLU:O	5:Zg:77:LEU:HG	2.14	0.48
5:Zh:99:ASN:HB3	5:Zh:102:VAL:HG22	1.94	0.48
5:Zq:55:ILE:HD13	5:aW:116:ALA:HB1	1.95	0.48
5:aD:103:LEU:HD12	5:aD:113:ILE:HG23	1.94	0.48
5:aS:73:GLU:O	5:aS:77:LEU:HG	2.13	0.48
5:aU:131:ILE:HD13	5:aU:140:ILE:HD11	1.95	0.48
5:aY:55:ILE:O	5:aY:59:ILE:HG12	2.13	0.48
5:ai:73:GLU:O	5:ai:77:LEU:HG	2.14	0.48
5:ao:73:GLU:O	5:ao:77:LEU:HG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:aw:73:GLU:O	5:aw:77:LEU:HG	2.14	0.48
5:ax:99:ASN:HB3	5:ax:102:VAL:HG22	1.94	0.48
5:bA:86:ILE:HD11	5:bA:118:ARG:HE	1.78	0.48
5:bE:73:GLU:O	5:bE:77:LEU:HG	2.14	0.48
5:bK:55:ILE:HG21	5:bq:116:ALA:HB2	1.95	0.48
5:bL:103:LEU:HD12	5:bL:113:ILE:HG23	1.95	0.48
5:bT:103:LEU:HD12	5:bT:113:ILE:HG23	1.94	0.48
5:bY:131:ILE:HD13	5:bY:140:ILE:HD11	1.95	0.48
5:bq:73:GLU:O	5:bq:77:LEU:HG	2.13	0.48
5:bw:73:GLU:O	5:bw:77:LEU:HG	2.14	0.48
5:by:62:GLU:OE1	5:ce:97:HIS:NE2	2.46	0.48
5:by:73:GLU:O	5:by:77:LEU:HG	2.14	0.48
5:cC:55:ILE:HG21	5:ci:116:ALA:HB2	1.95	0.48
5:cC:73:GLU:O	5:cC:77:LEU:HG	2.14	0.48
5:cG:73:GLU:O	5:cG:77:LEU:HG	2.14	0.48
5:cM:73:GLU:O	5:cM:77:LEU:HG	2.14	0.48
5:cP:75:GLN:NE2	5:cP:79:GLU:OE1	2.44	0.48
5:cR:99:ASN:HB3	5:cR:102:VAL:HG22	1.95	0.48
5:cZ:103:LEU:HD12	5:cZ:113:ILE:HG23	1.94	0.48
5:ce:73:GLU:O	5:ce:77:LEU:HG	2.14	0.48
5:cm:73:GLU:O	5:cm:77:LEU:HG	2.14	0.48
5:cn:99:ASN:HB3	5:cn:102:VAL:HG22	1.94	0.48
5:co:131:ILE:HD13	5:co:140:ILE:HD11	1.95	0.48
5:ct:103:LEU:HD12	5:ct:113:ILE:HG23	1.95	0.48
5:dD:99:ASN:HB3	5:dD:102:VAL:HG22	1.95	0.48
5:dK:86:ILE:HD11	5:dK:118:ARG:HE	1.78	0.48
5:dM:73:GLU:O	5:dM:77:LEU:HG	2.14	0.48
5:dO:131:ILE:HD13	5:dO:140:ILE:HD11	1.95	0.48
5:dU:73:GLU:O	5:dU:77:LEU:HG	2.14	0.48
5:di:54:SER:HB3	5:di:56:ASN:OD1	2.12	0.48
5:dw:57:GLU:HA	5:dw:60:THR:HG22	1.93	0.48
5:eP:103:LEU:HD12	5:eP:113:ILE:HG23	1.94	0.48
5:ed:99:ASN:HB3	5:ed:102:VAL:HG22	1.95	0.48
5:ef:75:GLN:NE2	5:ef:79:GLU:OE1	2.45	0.48
5:ek:73:GLU:O	5:ek:77:LEU:HG	2.13	0.48
5:eo:73:GLU:O	5:eo:77:LEU:HG	2.13	0.48
5:es:73:GLU:O	5:es:77:LEU:HG	2.14	0.48
5:fO:73:GLU:O	5:fO:77:LEU:HG	2.13	0.48
5:fR:75:GLN:NE2	5:fR:79:GLU:OE1	2.44	0.48
5:fa:73:GLU:O	5:fa:77:LEU:HG	2.14	0.48
5:fi:131:ILE:HD13	5:fi:140:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fr:103:LEU:HD12	5:fr:113:ILE:HG23	1.94	0.48
5:fs:55:ILE:O	5:fs:59:ILE:HG12	2.12	0.48
1:AH:55:ALA:O	1:AL:86:TYR:OH	2.27	0.48
1:AV:307:THR:HG22	2:Bn:32:LEU:HB2	1.96	0.48
1:AZ:152:LEU:HD21	4:Cs:112:SER:HA	1.96	0.48
1:Al:174:LYS:O	1:Al:212:LYS:NZ	2.46	0.48
1:BC:26:TYR:O	5:EM:218:TYR:OH	2.28	0.48
1:BF:259:ILE:HB	1:BF:314:VAL:HB	1.95	0.48
1:BI:55:ALA:O	1:GA:86:TYR:OH	2.26	0.48
1:BW:66:THR:HG22	2:Ce:52:CYS:HB3	1.94	0.48
1:BW:288:ASP:OD1	1:BW:289:SER:N	2.44	0.48
2:Br:167:THR:HB	2:Br:170:LEU:HB3	1.96	0.48
2:CN:76:SER:HB3	2:CN:87:GLU:HG2	1.95	0.48
4:Ck:77:ILE:HG13	4:Ck:91:PRO:HB3	1.95	0.48
1:Et:77:VAL:HG11	1:Et:305:LEU:HD13	1.95	0.48
1:Ex:57:PRO:HB2	1:Ju:84:LEU:HB3	1.94	0.48
1:FH:13:VAL:HG11	1:FH:281:PRO:HG2	1.95	0.48
1:FI:49:TRP:CZ3	1:FI:74:SER:HB3	2.49	0.48
1:FO:152:LEU:HD21	4:Hh:112:SER:HA	1.94	0.48
1:FW:152:LEU:HD21	4:Hk:112:SER:HA	1.95	0.48
1:FW:259:ILE:HB	1:FW:314:VAL:HB	1.96	0.48
1:Fa:257:HIS:CE1	1:Fa:318:GLN:HG3	2.48	0.48
1:Fd:161:MET:HE3	1:Fd:306:ALA:HB3	1.95	0.48
1:Fh:43:TYR:HE2	1:Fh:45:LYS:HE2	1.77	0.48
1:Fv:86:TYR:OH	1:Fw:55:ALA:O	2.19	0.48
1:GA:16:ILE:HD12	1:GA:116:ALA:HB1	1.95	0.48
1:GL:78:ARG:O	1:GL:154:ASN:ND2	2.34	0.48
2:Gb:74:LYS:HE2	2:Gb:89:GLY:HA3	1.96	0.48
2:Gh:140:ASN:OD1	2:Gh:144:GLU:N	2.46	0.48
2:Go:167:THR:HG22	2:Go:168:GLU:H	1.78	0.48
4:Hc:65:LEU:HD23	4:Hc:92:HIS:CG	2.48	0.48
1:Je:75:GLU:CD	2:Py:33:SER:H	2.21	0.48
1:Jl:65:ASN:ND2	2:LR:57:ASP:O	2.46	0.48
1:Jw:162:PRO:O	2:Ld:31:LEU:HD21	2.12	0.48
1:KE:49:TRP:CZ3	1:KE:74:SER:HB3	2.48	0.48
1:KH:84:LEU:HB3	1:KK:57:PRO:HB2	1.94	0.48
1:KP:257:HIS:CE1	1:KP:318:GLN:HG3	2.48	0.48
1:KW:55:ALA:O	1:Kd:86:TYR:OH	2.22	0.48
1:KX:161:MET:HG3	4:Mb:31:LEU:HD21	1.95	0.48
1:Kg:49:TRP:CE3	1:Kg:74:SER:HB3	2.48	0.48
1:Kj:257:HIS:CE1	1:Kj:318:GLN:HG3	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kt:66:THR:HG22	2:MB:52:CYS:HB3	1.95	0.48
1:Kt:148:GLN:HG3	2:Lv:81:THR:O	2.14	0.48
1:Ky:41:MET:HE2	1:Ky:83:LYS:H	1.78	0.48
1:Kz:86:TYR:OH	1:LA:55:ALA:O	2.19	0.48
2:Lq:125:LYS:HD2	2:Lq:169:ASP:HA	1.96	0.48
4:Mh:107:ASP:HB3	4:Mh:116:THR:HB	1.95	0.48
1:Pk:86:TYR:OH	1:UJ:55:ALA:O	2.23	0.48
1:Pl:225:SER:HB3	1:Ps:224:ALA:HB3	1.94	0.48
2:QX:140:ASN:OD1	2:QX:144:GLU:N	2.42	0.48
2:Qp:165:LYS:HE3	2:Qp:168:GLU:HA	1.96	0.48
4:RV:14:LYS:HG3	4:RW:14:LYS:HG3	1.95	0.48
1:TK:79:LEU:HD11	1:TK:305:LEU:HB2	1.95	0.48
1:Td:307:THR:HG22	2:Uv:32:LEU:HB2	1.96	0.48
1:Tk:205:VAL:HG12	1:Tk:259:ILE:HG23	1.95	0.48
1:Tu:50:ASP:OD1	1:Tu:51:ALA:N	2.46	0.48
1:UH:19:GLU:OE1	1:UH:120:LYS:NZ	2.44	0.48
1:UY:79:LEU:HD11	1:UY:305:LEU:HB2	1.96	0.48
1:Ua:49:TRP:CZ3	1:Ua:74:SER:HB3	2.48	0.48
1:Ug:107:ASP:OD2	1:Ug:110:ASN:ND2	2.38	0.48
2:Ur:23:LYS:N	2:Ur:67:TYR:OH	2.46	0.48
2:Us:167:THR:HG22	2:Us:168:GLU:H	1.78	0.48
2:VC:37:ASP:O	2:VC:41:GLN:NE2	2.46	0.48
2:Vg:125:LYS:HD2	2:Vg:169:ASP:HA	1.95	0.48
4:Vw:73:VAL:HG21	4:Vw:117:ILE:HD13	1.96	0.48
4:WA:149:LEU:HD13	4:WA:181:VAL:HG21	1.95	0.48
4:WC:77:ILE:HG12	4:WC:91:PRO:HB3	1.96	0.48
6:YF:273:THR:HG22	6:YF:275:SER:H	1.78	0.48
5:Yq:126:VAL:HG22	5:Yq:154:LEU:HG	1.94	0.48
5:ZM:113:ILE:O	5:ZM:117:GLN:HG2	2.13	0.48
5:ZN:99:ASN:HB3	5:ZN:102:VAL:HG22	1.93	0.48
5:ZQ:55:ILE:O	5:ZQ:59:ILE:HG12	2.13	0.48
5:ZR:99:ASN:HB3	5:ZR:102:VAL:HG22	1.95	0.48
5:ZZ:103:LEU:HD12	5:ZZ:113:ILE:HG23	1.94	0.48
5:Zb:99:ASN:HB3	5:Zb:102:VAL:HG22	1.94	0.48
5:Zh:75:GLN:NE2	5:Zh:79:GLU:OE1	2.45	0.48
5:Zi:73:GLU:O	5:Zi:77:LEU:HG	2.14	0.48
5:Zk:73:GLU:O	5:Zk:77:LEU:HG	2.14	0.48
5:Zt:103:LEU:HD12	5:Zt:113:ILE:HG23	1.94	0.48
5:aE:86:ILE:HD11	5:aE:118:ARG:HE	1.78	0.48
5:aH:99:ASN:HB3	5:aH:102:VAL:HG22	1.94	0.48
5:aK:73:GLU:O	5:aK:77:LEU:HG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:aO:73:GLU:O	5:aO:77:LEU:HG	2.14	0.48
5:aT:103:LEU:HD12	5:aT:113:ILE:HG23	1.94	0.48
5:aU:73:GLU:O	5:aU:77:LEU:HG	2.14	0.48
5:ag:73:GLU:O	5:ag:77:LEU:HG	2.14	0.48
5:ak:73:GLU:O	5:ak:77:LEU:HG	2.14	0.48
5:an:99:ASN:HB3	5:an:102:VAL:HG22	1.95	0.48
5:az:103:LEU:HD12	5:az:113:ILE:HG23	1.94	0.48
5:bH:103:LEU:HD12	5:bH:113:ILE:HG23	1.94	0.48
5:bJ:74:LYS:HE3	5:bm:111:LYS:HZ2	1.78	0.48
5:bN:103:LEU:HD12	5:bN:113:ILE:HG23	1.94	0.48
5:bO:73:GLU:O	5:bO:77:LEU:HG	2.14	0.48
5:bO:131:ILE:HD13	5:bO:140:ILE:HD11	1.96	0.48
5:bZ:103:LEU:HD12	5:bZ:113:ILE:HG23	1.94	0.48
5:ba:73:GLU:O	5:ba:77:LEU:HG	2.13	0.48
5:bb:99:ASN:HB3	5:bb:102:VAL:HG22	1.95	0.48
5:bc:73:GLU:O	5:bc:77:LEU:HG	2.14	0.48
5:bh:103:LEU:HD12	5:bh:113:ILE:HG23	1.94	0.48
5:bo:73:GLU:O	5:bo:77:LEU:HG	2.14	0.48
5:bu:131:ILE:HD13	5:bu:140:ILE:HD11	1.96	0.48
5:cE:73:GLU:O	5:cE:77:LEU:HG	2.14	0.48
5:cI:131:ILE:HD13	5:cI:140:ILE:HD11	1.95	0.48
5:cN:75:GLN:NE2	5:cN:79:GLU:OE1	2.45	0.48
5:cO:131:ILE:HD13	5:cO:140:ILE:HD11	1.96	0.48
5:cR:103:LEU:HD12	5:cR:113:ILE:HG23	1.95	0.48
5:ca:131:ILE:HD13	5:ca:140:ILE:HD11	1.96	0.48
5:cc:131:ILE:HD13	5:cc:140:ILE:HD11	1.96	0.48
5:cg:73:GLU:O	5:cg:77:LEU:HG	2.14	0.48
5:ch:103:LEU:HD12	5:ch:113:ILE:HG23	1.94	0.48
5:cr:103:LEU:HD12	5:cr:113:ILE:HG23	1.94	0.48
5:cu:73:GLU:O	5:cu:77:LEU:HG	2.14	0.48
5:cx:103:LEU:HD12	5:cx:113:ILE:HG23	1.94	0.48
5:dA:131:ILE:HD13	5:dA:140:ILE:HD11	1.96	0.48
5:dG:73:GLU:O	5:dG:77:LEU:HG	2.14	0.48
5:dV:99:ASN:HB3	5:dV:102:VAL:HG22	1.95	0.48
5:dY:131:ILE:HD13	5:dY:140:ILE:HD11	1.95	0.48
5:df:99:ASN:HB3	5:df:102:VAL:HG22	1.95	0.48
5:dj:99:ASN:HB3	5:dj:102:VAL:HG22	1.95	0.48
5:dl:103:LEU:HD12	5:dl:113:ILE:HG23	1.94	0.48
5:dr:103:LEU:HD12	5:dr:113:ILE:HG23	1.94	0.48
5:du:56:ASN:HB2	5:ec:146:GLU:N	2.27	0.48
5:dx:99:ASN:HB3	5:dx:102:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eA:56:ASN:HD22	5:ei:145:GLY:HA3	1.79	0.48
5:eA:73:GLU:O	5:eA:77:LEU:HG	2.14	0.48
5:eJ:103:LEU:HD12	5:eJ:113:ILE:HG23	1.94	0.48
5:eL:103:LEU:HD12	5:eL:113:ILE:HG23	1.95	0.48
5:eU:73:GLU:O	5:eU:77:LEU:HG	2.14	0.48
5:eo:98:PHE:HB3	5:eo:117:GLN:HE22	1.78	0.48
5:er:136:LYS:HE3	5:er:136:LYS:HB2	1.73	0.48
5:ew:73:GLU:O	5:ew:77:LEU:HG	2.13	0.48
5:ex:99:ASN:HB3	5:ex:102:VAL:HG22	1.94	0.48
5:fA:131:ILE:HD13	5:fA:140:ILE:HD11	1.96	0.48
5:fB:103:LEU:HD12	5:fB:113:ILE:HG23	1.94	0.48
5:fD:74:LYS:HE3	5:fE:111:LYS:HZ2	1.78	0.48
5:fP:103:LEU:HD12	5:fP:113:ILE:HG23	1.94	0.48
5:fQ:131:ILE:HD13	5:fQ:140:ILE:HD11	1.96	0.48
5:fV:103:LEU:HD12	5:fV:113:ILE:HG23	1.94	0.48
5:fY:73:GLU:O	5:fY:77:LEU:HG	2.13	0.48
5:fg:131:ILE:HD13	5:fg:140:ILE:HD11	1.96	0.48
5:fh:103:LEU:HD12	5:fh:113:ILE:HG23	1.94	0.48
5:gD:99:ASN:HB3	5:gD:102:VAL:HG22	1.95	0.48
5:gD:103:LEU:HD12	5:gD:113:ILE:HG23	1.94	0.48
1:AR:25:MET:HE1	1:AR:130:ILE:HG22	1.96	0.48
1:Am:80:ASN:ND2	1:Am:153:PRO:O	2.46	0.48
1:BC:49:TRP:CE3	1:BC:74:SER:HB3	2.48	0.48
1:BC:87:LYS:NZ	2:CU:53:THR:O	2.39	0.48
1:BF:135:LEU:HD21	1:BF:255:LEU:HG	1.94	0.48
1:BZ:13:VAL:HA	1:BZ:16:ILE:HG22	1.96	0.48
1:Bb:84:LEU:HD13	1:Bd:57:PRO:HB2	1.95	0.48
2:Bf:33:SER:H	1:TI:75:GLU:CD	2.21	0.48
2:CX:77:PHE:HD2	4:DE:138:LYS:HG3	1.78	0.48
4:DC:14:LYS:HG3	4:DD:14:LYS:HG3	1.95	0.48
4:DI:142:ILE:HD11	4:DI:152:VAL:HG23	1.95	0.48
1:FE:89:ARG:HH21	1:FE:112:LEU:HD13	1.79	0.48
1:FH:261:ILE:HD12	1:FH:312:LEU:HD23	1.95	0.48
1:FM:225:SER:HB3	1:GS:224:ALA:HB3	1.95	0.48
1:FZ:159:LEU:HD12	1:FZ:260:LEU:HD13	1.96	0.48
1:Fb:50:ASP:OD1	1:Fb:51:ALA:N	2.46	0.48
1:Fi:161:MET:HG3	4:Hm:31:LEU:HD21	1.95	0.48
1:Fk:307:THR:HG22	2:Gu:32:LEU:HB2	1.95	0.48
1:Fo:41:MET:HE2	1:Fo:83:LYS:H	1.79	0.48
1:Fq:174:LYS:O	1:Fq:212:LYS:NZ	2.46	0.48
1:GD:257:HIS:CE1	1:GD:318:GLN:HG3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GE:66:THR:HG22	2:HM:52:CYS:HB3	1.95	0.48
1:GH:225:SER:HB3	1:GO:224:ALA:HB3	1.94	0.48
1:GJ:41:MET:HE2	1:GJ:83:LYS:H	1.78	0.48
1:GN:205:VAL:HG12	1:GN:259:ILE:HG23	1.94	0.48
2:HL:165:LYS:HE3	2:HL:168:GLU:HA	1.96	0.48
2:HQ:59:ILE:HG22	2:HQ:111:ILE:HG12	1.95	0.48
2:HW:75:LEU:HD22	2:HW:84:LEU:HD13	1.95	0.48
4:Ho:144:ASN:OD1	4:Ho:148:ALA:N	2.41	0.48
4:Hs:107:ASP:HB3	4:Hs:116:THR:HB	1.95	0.48
1:Jt:89:ARG:HH21	1:Jt:112:LEU:HD13	1.79	0.48
1:Jv:25:MET:HE1	1:Jv:130:ILE:HG22	1.96	0.48
1:Jz:152:LEU:HD21	2:LZ:105:SER:HA	1.96	0.48
1:KO:218:ALA:HA	1:KO:224:ALA:HA	1.96	0.48
1:KP:174:LYS:O	1:KP:212:LYS:NZ	2.46	0.48
1:KR:152:LEU:HD21	2:Lk:105:SER:HA	1.96	0.48
1:Kf:81:TYR:OH	1:Kf:272:LYS:O	2.29	0.48
1:Kx:270:LYS:HG2	1:Kx:272:LYS:HE3	1.94	0.48
1:Kz:296:TYR:HE2	1:LA:67:ILE:HG13	1.76	0.48
2:Lj:180:ASN:O	4:Ma:186:ASN:ND2	2.46	0.48
2:Lo:23:LYS:HG3	2:Lo:24:ASN:H	1.79	0.48
2:Lx:167:THR:HG22	2:Lx:168:GLU:H	1.79	0.48
2:MF:167:THR:HG22	2:MF:168:GLU:H	1.78	0.48
4:Ma:28:ASP:OD1	4:Ma:28:ASP:N	2.45	0.48
4:Mj:161:ILE:HA	4:Mj:186:ASN:HA	1.94	0.48
1:Ol:13:VAL:HG11	1:Ol:281:PRO:HG2	1.95	0.48
1:PE:257:HIS:CE1	1:PE:318:GLN:HG3	2.48	0.48
1:PS:49:TRP:CZ3	1:PS:74:SER:HB3	2.47	0.48
1:Pc:152:LEU:HD21	2:Qq:105:SER:HA	1.95	0.48
1:Pj:33:GLN:NE2	1:Pj:269:ILE:O	2.35	0.48
1:Pp:78:ARG:O	1:Pp:154:ASN:ND2	2.34	0.48
2:QH:77:PHE:HB2	4:RG:138:LYS:HD2	1.95	0.48
2:QU:138:ASN:HD22	2:QU:153:LYS:HE2	1.79	0.48
1:Tq:48:LYS:HE2	1:Tq:75:GLU:HB2	1.95	0.48
1:Tr:152:LEU:HD21	2:VM:105:SER:HA	1.94	0.48
1:US:47:VAL:HG22	1:US:76:VAL:HG22	1.94	0.48
1:Ue:66:THR:HG22	2:Vm:52:CYS:HB3	1.94	0.48
2:Un:167:THR:HB	2:Un:170:LEU:HB3	1.96	0.48
2:VB:125:LYS:HD2	2:VB:169:ASP:HA	1.95	0.48
2:VZ:181:ARG:NH2	2:Va:92:ASP:O	2.46	0.48
2:Vb:167:THR:HG22	2:Vb:168:GLU:H	1.79	0.48
4:Vt:43:VAL:HG11	4:Vt:170:LYS:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Xx:195:GLU:O	6:Xx:199:GLN:HG3	2.14	0.48
5:YQ:128:ILE:HG13	5:YQ:132:LYS:HE3	1.96	0.48
5:YW:72:ILE:O	5:YW:76:LEU:HG	2.14	0.48
5:YW:144:ASP:HB2	5:YW:148:LEU:HD22	1.95	0.48
5:Yb:118:ARG:O	5:Yb:122:VAL:HG23	2.14	0.48
5:Yl:99:ASN:HB3	5:Yl:102:VAL:HG22	1.93	0.48
5:Yu:86:ILE:HD11	5:Yu:118:ARG:HE	1.77	0.48
5:Yu:126:VAL:HG22	5:Yu:154:LEU:HG	1.95	0.48
5:Zd:99:ASN:HB3	5:Zd:102:VAL:HG22	1.95	0.48
5:Zm:103:LEU:HD12	5:Zm:113:ILE:HG23	1.94	0.48
5:Zx:99:ASN:HB3	5:Zx:102:VAL:HG22	1.95	0.48
5:Zy:73:GLU:O	5:Zy:77:LEU:HG	2.14	0.48
5:aA:73:GLU:O	5:aA:77:LEU:HG	2.14	0.48
5:aN:99:ASN:HB3	5:aN:102:VAL:HG22	1.95	0.48
5:aW:73:GLU:O	5:aW:77:LEU:HG	2.14	0.48
5:aX:103:LEU:HD12	5:aX:113:ILE:HG23	1.94	0.48
5:ad:99:ASN:HB3	5:ad:102:VAL:HG22	1.95	0.48
5:af:99:ASN:HB3	5:af:102:VAL:HG22	1.95	0.48
5:bB:103:LEU:HD12	5:bB:113:ILE:HG23	1.94	0.48
5:bD:103:LEU:HD12	5:bD:113:ILE:HG23	1.94	0.48
5:bG:73:GLU:O	5:bG:77:LEU:HG	2.13	0.48
5:bI:131:ILE:HD13	5:bI:140:ILE:HD11	1.96	0.48
5:bM:131:ILE:HD13	5:bM:140:ILE:HD11	1.96	0.48
5:bP:103:LEU:HD12	5:bP:113:ILE:HG23	1.94	0.48
5:bQ:73:GLU:O	5:bQ:77:LEU:HG	2.14	0.48
5:bR:75:GLN:NE2	5:bR:79:GLU:OE1	2.44	0.48
5:bU:73:GLU:O	5:bU:77:LEU:HG	2.13	0.48
5:bX:75:GLN:NE2	5:bX:79:GLU:OE1	2.44	0.48
5:bv:103:LEU:HD12	5:bv:113:ILE:HG23	1.94	0.48
5:cW:73:GLU:O	5:cW:77:LEU:HG	2.14	0.48
5:cY:73:GLU:O	5:cY:77:LEU:HG	2.14	0.48
5:cb:103:LEU:HD12	5:cb:113:ILE:HG23	1.94	0.48
5:cs:73:GLU:O	5:cs:77:LEU:HG	2.14	0.48
5:dA:55:ILE:O	5:dA:59:ILE:HG12	2.12	0.48
5:dE:73:GLU:O	5:dE:77:LEU:HG	2.14	0.48
5:dO:73:GLU:O	5:dO:77:LEU:HG	2.14	0.48
5:dk:56:ASN:HB2	5:eS:146:GLU:N	2.27	0.48
5:dm:56:ASN:HB2	5:eU:146:GLU:N	2.28	0.48
5:ds:54:SER:HB3	5:ds:56:ASN:OD1	2.14	0.48
5:eF:75:GLN:NE2	5:eF:79:GLU:OE1	2.44	0.48
5:eV:103:LEU:HD12	5:eV:113:ILE:HG23	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eW:73:GLU:O	5:eW:77:LEU:HG	2.13	0.48
5:ez:99:ASN:HB3	5:ez:102:VAL:HG22	1.95	0.48
5:fG:73:GLU:O	5:fG:77:LEU:HG	2.14	0.48
5:fJ:99:ASN:HB3	5:fJ:102:VAL:HG22	1.95	0.48
5:fK:73:GLU:O	5:fK:77:LEU:HG	2.13	0.48
5:fN:103:LEU:HD12	5:fN:113:ILE:HG23	1.94	0.48
5:fY:131:ILE:HD13	5:fY:140:ILE:HD11	1.96	0.48
5:ff:75:GLN:NE2	5:ff:79:GLU:OE1	2.44	0.48
5:fm:131:ILE:HD13	5:fm:140:ILE:HD11	1.96	0.48
5:fr:74:LYS:HE3	5:fs:111:LYS:HZ1	1.77	0.48
5:fu:55:ILE:O	5:fu:59:ILE:HG12	2.12	0.48
5:fv:99:ASN:HB3	5:fv:102:VAL:HG22	1.95	0.48
5:gA:73:GLU:O	5:gA:77:LEU:HG	2.14	0.48
1:AY:152:LEU:HD21	2:Bw:105:SER:HA	1.95	0.48
1:At:135:LEU:HD21	1:At:255:LEU:HG	1.95	0.48
1:BK:13:VAL:HA	1:BK:16:ILE:HG22	1.95	0.48
1:BM:107:ASP:OD2	1:BM:110:ASN:ND2	2.36	0.48
2:Bl:165:LYS:HE3	2:Bl:168:GLU:HA	1.95	0.48
2:Bt:183:ILE:HD12	4:Cp:188:ALA:HB3	1.94	0.48
2:CB:138:ASN:HD22	2:CB:153:LYS:HE2	1.79	0.48
2:CN:138:ASN:HD22	2:CN:153:LYS:HG2	1.79	0.48
4:DB:149:LEU:HD13	4:DB:181:VAL:HG21	1.96	0.48
4:DF:31:LEU:HD21	1:UQ:161:MET:SD	2.54	0.48
4:DG:51:THR:HG21	4:DG:180:LYS:HE3	1.95	0.48
1:FN:164:GLN:HE22	1:FN:308:ARG:HA	1.78	0.48
1:Fd:307:THR:HG22	2:HA:32:LEU:HB2	1.95	0.48
1:Fj:16:ILE:HD11	1:Fj:120:LYS:HE3	1.95	0.48
1:GS:91:LEU:HD21	1:GS:112:LEU:HD13	1.96	0.48
2:GZ:167:THR:HG22	2:GZ:168:GLU:H	1.78	0.48
2:Gx:77:PHE:CD1	4:Hn:138:LYS:HG2	2.48	0.48
2:HI:167:THR:HG22	2:HI:168:GLU:H	1.79	0.48
2:HN:125:LYS:HD2	2:HN:169:ASP:HA	1.95	0.48
2:HQ:167:THR:HG22	2:HQ:168:GLU:H	1.78	0.48
4:Hd:141:LEU:HD11	4:Hd:165:ALA:HB2	1.95	0.48
4:Hv:57:ASP:O	1:Kf:65:ASN:ND2	2.47	0.48
1:Ji:164:GLN:HE22	1:Ji:308:ARG:HA	1.78	0.48
1:Ju:54:ASN:OD1	2:LN:47:ASN:ND2	2.37	0.48
1:KE:79:LEU:HD11	1:KE:305:LEU:HB2	1.95	0.48
1:LB:277:MET:HA	1:LB:300:VAL:HB	1.96	0.48
2:LX:125:LYS:HD2	2:LX:169:ASP:HA	1.95	0.48
2:Lr:138:ASN:HD22	2:Lr:153:LYS:HG2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MC:23:LYS:N	2:MC:67:TYR:OH	2.46	0.48
4:MV:161:ILE:HA	4:MV:186:ASN:HA	1.93	0.48
1:OY:89:ARG:HH21	1:OY:112:LEU:HD21	1.78	0.48
1:Oj:87:LYS:NZ	2:QK:53:THR:O	2.39	0.48
1:Os:87:LYS:NZ	2:QS:53:THR:O	2.34	0.48
1:PA:244:ARG:NH1	1:PE:210:SER:OG	2.45	0.48
1:PB:48:LYS:HE2	1:PB:75:GLU:HB2	1.95	0.48
1:PO:205:VAL:HG12	1:PO:259:ILE:HG23	1.95	0.48
1:PW:129:LEU:HD12	4:RV:38:PHE:HE2	1.78	0.48
1:Pl:49:TRP:CZ3	1:Pl:74:SER:HB3	2.48	0.48
2:Qd:23:LYS:HG3	2:Qd:24:ASN:H	1.79	0.48
2:Qh:156:ASN:ND2	2:Qh:180:ASN:O	2.46	0.48
2:Qv:100:ASP:HB3	2:Qv:109:THR:HB	1.96	0.48
2:Qy:156:ASN:ND2	2:Qy:180:ASN:OD1	2.47	0.48
4:RM:144:ASN:OD1	4:RM:148:ALA:N	2.43	0.48
1:TL:66:THR:HG22	4:Vw:52:ARG:HB3	1.96	0.48
1:TR:54:ASN:OD1	2:Us:47:ASN:ND2	2.31	0.48
1:TZ:25:MET:HE1	1:TZ:130:ILE:HG22	1.96	0.48
1:Tg:164:GLN:HE22	1:Tg:308:ARG:HA	1.78	0.48
1:Ti:49:TRP:CZ3	1:Ti:74:SER:HB3	2.48	0.48
1:Tk:49:TRP:CZ3	1:Tk:74:SER:HB3	2.47	0.48
1:Tl:307:THR:HG22	2:VQ:32:LEU:HB2	1.95	0.48
1:Tm:286:ASP:HB2	1:Tm:294:HIS:HB2	1.95	0.48
1:Tn:158:LEU:HB3	1:Tn:260:LEU:HD21	1.96	0.48
1:Ts:66:THR:HG22	2:VP:52:CYS:HB3	1.95	0.48
1:Ts:159:LEU:HD12	1:Ts:260:LEU:HD13	1.96	0.48
1:Uc:152:LEU:HD21	2:Vl:105:SER:HA	1.96	0.48
1:Uf:277:MET:HA	1:Uf:300:VAL:HB	1.96	0.48
2:VS:23:LYS:HG3	2:VS:24:ASN:H	1.79	0.48
2:VV:77:PHE:CD2	4:WH:138:LYS:HG2	2.49	0.48
2:Vo:125:LYS:HD2	2:Vo:169:ASP:HA	1.95	0.48
4:Vs:77:ILE:HG13	4:Vs:91:PRO:HB3	1.95	0.48
4:WM:149:LEU:HD13	4:WM:181:VAL:HG21	1.95	0.48
4:WO:149:LEU:HD13	4:WO:181:VAL:HG21	1.96	0.48
6:Xy:168:LEU:HD11	6:Xz:181:GLU:HG3	1.96	0.48
6:YA:16:LEU:HG	6:YA:20:LYS:HE3	1.96	0.48
6:YG:246:ARG:O	6:YG:249:ASN:HB3	2.13	0.48
5:YQ:57:GLU:HB2	5:Yf:146:GLU:HB2	1.96	0.48
5:YR:63:LEU:HD11	5:Yj:135:ALA:O	2.13	0.48
5:Yo:113:ILE:O	5:Yo:117:GLN:HG2	2.14	0.48
5:Yu:55:ILE:O	5:Yu:59:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZL:118:ARG:O	5:ZL:122:VAL:HG23	2.14	0.48
5:ZQ:73:GLU:O	5:ZQ:77:LEU:HG	2.14	0.48
5:ZX:103:LEU:HD12	5:ZX:113:ILE:HG23	1.94	0.48
5:Za:73:GLU:O	5:Za:77:LEU:HG	2.14	0.48
5:Zt:99:ASN:HB3	5:Zt:102:VAL:HG22	1.95	0.48
5:aA:131:ILE:HD13	5:aA:140:ILE:HD11	1.96	0.48
5:aC:86:ILE:HD11	5:aC:118:ARG:HE	1.77	0.48
5:aE:73:GLU:O	5:aE:77:LEU:HG	2.14	0.48
5:aI:131:ILE:HD13	5:aI:140:ILE:HD11	1.96	0.48
5:aS:131:ILE:HD13	5:aS:140:ILE:HD11	1.96	0.48
5:aY:73:GLU:O	5:aY:77:LEU:HG	2.13	0.48
5:am:73:GLU:O	5:am:77:LEU:HG	2.14	0.48
5:aq:73:GLU:O	5:aq:77:LEU:HG	2.14	0.48
5:bN:75:GLN:NE2	5:bN:79:GLU:OE1	2.45	0.48
5:bN:99:ASN:HB3	5:bN:102:VAL:HG22	1.95	0.48
5:bY:73:GLU:O	5:bY:77:LEU:HG	2.14	0.48
5:bc:131:ILE:HD13	5:bc:140:ILE:HD11	1.96	0.48
5:be:131:ILE:HD13	5:be:140:ILE:HD11	1.96	0.48
5:bk:103:LEU:HD12	5:bk:113:ILE:HG23	1.94	0.48
5:bm:73:GLU:O	5:bm:77:LEU:HG	2.14	0.48
5:br:99:ASN:HB3	5:br:102:VAL:HG22	1.95	0.48
5:bu:73:GLU:O	5:bu:77:LEU:HG	2.13	0.48
5:bu:111:LYS:HZ2	5:bx:74:LYS:HE3	1.77	0.48
5:bx:99:ASN:HB3	5:bx:102:VAL:HG22	1.95	0.48
5:cK:73:GLU:O	5:cK:77:LEU:HG	2.14	0.48
5:cO:73:GLU:O	5:cO:77:LEU:HG	2.14	0.48
5:cQ:131:ILE:HD13	5:cQ:140:ILE:HD11	1.96	0.48
5:cc:73:GLU:O	5:cc:77:LEU:HG	2.14	0.48
5:cf:99:ASN:HB3	5:cf:102:VAL:HG22	1.95	0.48
5:co:73:GLU:O	5:co:77:LEU:HG	2.14	0.48
5:dQ:131:ILE:HD13	5:dQ:140:ILE:HD11	1.96	0.48
5:dR:99:ASN:HB3	5:dR:102:VAL:HG22	1.95	0.48
5:dS:98:PHE:HB3	5:dS:117:GLN:HE22	1.78	0.48
5:dS:131:ILE:HD13	5:dS:140:ILE:HD11	1.96	0.48
5:dW:73:GLU:O	5:dW:77:LEU:HG	2.14	0.48
5:dZ:99:ASN:HB3	5:dZ:102:VAL:HG22	1.95	0.48
5:dc:73:GLU:O	5:dc:77:LEU:HG	2.14	0.48
5:dg:73:GLU:O	5:dg:77:LEU:HG	2.14	0.48
5:di:73:GLU:O	5:di:77:LEU:HG	2.13	0.48
5:dp:99:ASN:HB3	5:dp:102:VAL:HG22	1.95	0.48
5:dq:56:ASN:HB2	5:eY:146:GLU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dz:99:ASN:HB3	5:dz:102:VAL:HG22	1.94	0.48
5:eM:116:ALA:HB1	5:es:55:ILE:HD13	1.96	0.48
5:eb:99:ASN:HB3	5:eb:102:VAL:HG22	1.95	0.48
5:es:131:ILE:HD13	5:es:140:ILE:HD11	1.96	0.48
5:ez:103:LEU:HD12	5:ez:113:ILE:HG23	1.94	0.48
5:fB:99:ASN:HB3	5:fB:102:VAL:HG22	1.94	0.48
5:fC:73:GLU:O	5:fC:77:LEU:HG	2.13	0.48
5:fS:131:ILE:HD13	5:fS:140:ILE:HD11	1.96	0.48
5:fa:131:ILE:HD13	5:fa:140:ILE:HD11	1.96	0.48
5:fd:75:GLN:NE2	5:fd:79:GLU:OE1	2.44	0.48
5:fk:131:ILE:HD13	5:fk:140:ILE:HD11	1.95	0.48
5:fl:99:ASN:HB3	5:fl:102:VAL:HG22	1.95	0.48
5:fo:73:GLU:O	5:fo:77:LEU:HG	2.14	0.48
5:fs:73:GLU:O	5:fs:77:LEU:HG	2.14	0.48
5:ft:99:ASN:HB3	5:ft:102:VAL:HG22	1.95	0.48
5:fw:55:ILE:O	5:fw:59:ILE:HG12	2.12	0.48
1:AU:164:GLN:HE22	1:AU:308:ARG:HA	1.78	0.48
1:Ae:286:ASP:HB2	1:Ae:294:HIS:HB2	1.95	0.48
1:At:307:THR:HG22	4:Cx:32:LEU:HB2	1.94	0.48
1:Az:41:MET:HE2	1:Az:83:LYS:H	1.79	0.48
1:BU:41:MET:HE2	1:BU:83:LYS:H	1.78	0.48
1:BU:152:LEU:HD21	2:Cd:105:SER:HA	1.96	0.48
1:Ex:48:LYS:HZ2	2:LV:33:SER:H	1.59	0.48
1:FK:307:THR:HG22	2:Gc:32:LEU:HB2	1.96	0.48
1:FL:57:PRO:HG2	1:Jx:84:LEU:HD13	1.94	0.48
1:Fj:152:LEU:HD21	2:Gz:105:SER:HA	1.96	0.48
1:Fm:49:TRP:CZ3	1:Fm:74:SER:HB3	2.49	0.48
1:Fn:212:LYS:HA	1:Fn:215:LYS:HE3	1.95	0.48
1:Fu:26:TYR:O	5:JE:218:TYR:OH	2.26	0.48
1:GE:148:GLN:HG3	2:HG:81:THR:O	2.14	0.48
1:GQ:80:ASN:ND2	1:GQ:154:ASN:HB2	2.29	0.48
1:GS:45:LYS:HE2	1:GS:78:ARG:HD3	1.96	0.48
2:GZ:140:ASN:HD21	2:GZ:144:GLU:HB2	1.79	0.48
2:HC:76:SER:HB3	2:HC:87:GLU:HG2	1.95	0.48
2:HR:32:LEU:HB2	1:Kf:307:THR:HG22	1.96	0.48
4:Hh:149:LEU:HD13	4:Hh:181:VAL:HG21	1.95	0.48
4:Hl:137:VAL:HG12	4:Hl:138:LYS:HG3	1.96	0.48
4:Hm:137:VAL:HG12	4:Hm:138:LYS:HG3	1.96	0.48
4:Hm:140:LYS:HD3	4:Hm:161:ILE:HD13	1.96	0.48
4:Hq:149:LEU:HD13	4:Hq:181:VAL:HG21	1.96	0.48
4:Hv:149:LEU:HD13	4:Hv:181:VAL:HG21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jj:77:VAL:HG21	2:LL:32:LEU:HD23	1.96	0.48
1:Js:80:ASN:ND2	1:Js:153:PRO:O	2.47	0.48
1:KH:307:THR:HG22	2:Lm:32:LEU:HB2	1.95	0.48
1:KL:259:ILE:HB	1:KL:314:VAL:HB	1.96	0.48
1:Kd:47:VAL:HG22	1:Kd:76:VAL:HG22	1.96	0.48
1:Kp:16:ILE:HD12	1:Kp:116:ALA:HB1	1.95	0.48
1:Kx:165:ILE:HD13	1:Kx:191:LEU:HD23	1.96	0.48
1:LD:13:VAL:HA	1:LD:16:ILE:HG22	1.96	0.48
2:LW:140:ASN:OD1	2:LW:144:GLU:N	2.46	0.48
4:MY:77:ILE:HG12	4:MY:91:PRO:HB3	1.96	0.48
4:Mb:140:LYS:HD3	4:Mb:161:ILE:HD13	1.95	0.48
1:Oe:59:THR:O	4:RJ:61:ASN:ND2	2.47	0.48
1:Ot:49:TRP:CZ3	1:Ot:74:SER:HB3	2.49	0.48
1:PD:66:THR:HG22	2:Qa:52:CYS:HB3	1.96	0.48
1:PD:159:LEU:HD12	1:PD:260:LEU:HD13	1.96	0.48
1:PJ:66:THR:HG22	4:RN:52:ARG:HB3	1.94	0.48
1:PN:59:THR:OG1	4:WH:61:ASN:ND2	2.47	0.48
1:Pe:16:ILE:HD12	1:Pe:116:ALA:HB1	1.95	0.48
1:Pi:148:GLN:HG3	2:Qk:81:THR:O	2.14	0.48
1:Pj:79:LEU:HD11	1:Pj:305:LEU:HB2	1.96	0.48
1:Pn:152:LEU:HD21	2:Qw:105:SER:HA	1.96	0.48
1:Pq:277:MET:HA	1:Pq:300:VAL:HB	1.96	0.48
2:QK:167:THR:HB	2:QK:170:LEU:HB3	1.96	0.48
2:Qu:167:THR:HG22	2:Qu:168:GLU:H	1.78	0.48
4:RD:137:VAL:HG12	4:RD:138:LYS:HG3	1.95	0.48
4:RQ:137:VAL:HG12	4:RQ:138:LYS:HG3	1.96	0.48
4:RT:20:LYS:HZ1	4:RT:175:GLU:HB2	1.79	0.48
1:TN:77:VAL:HG21	2:Up:32:LEU:HD23	1.96	0.48
1:TP:77:VAL:HG11	1:TP:305:LEU:HD13	1.96	0.48
1:Tp:259:ILE:HB	1:Tp:314:VAL:HB	1.96	0.48
1:UP:65:ASN:ND2	4:WL:57:ASP:O	2.47	0.48
1:Ub:57:PRO:HB2	1:Uf:84:LEU:HD13	1.96	0.48
2:VV:76:SER:HB3	2:VV:87:GLU:HG2	1.95	0.48
2:Vn:156:ASN:ND2	2:Vn:180:ASN:OD1	2.47	0.48
2:Vp:75:LEU:HD22	2:Vp:84:LEU:HD13	1.95	0.48
4:Vy:19:GLU:OE1	4:Vy:27:HIS:NE2	2.47	0.48
4:WE:28:ASP:OD1	4:WE:28:ASP:N	2.45	0.48
4:WO:14:LYS:HG3	4:WP:14:LYS:HG3	1.94	0.48
6:Xx:35:ASP:OD2	6:Xx:329:TYR:OH	2.20	0.48
6:YD:85:THR:HA	6:YD:102:ILE:HG12	1.96	0.48
5:YP:55:ILE:O	5:YP:59:ILE:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YT:113:ILE:O	5:YT:117:GLN:HG2	2.14	0.48
5:ZB:131:ILE:HD13	5:ZB:140:ILE:HD11	1.96	0.48
5:ZG:56:ASN:HD21	5:Za:141:SER:HB3	1.77	0.48
5:ZH:122:VAL:HG11	5:ZH:151:LEU:HD13	1.96	0.48
5:ZN:131:ILE:HD13	5:ZN:140:ILE:HD11	1.95	0.48
5:Zc:123:ARG:NH2	5:Zc:140:ILE:HB	2.28	0.48
5:Zi:131:ILE:HD13	5:Zi:140:ILE:HD11	1.95	0.48
5:Zq:73:GLU:O	5:Zq:77:LEU:HG	2.14	0.48
5:Zz:99:ASN:HB3	5:Zz:102:VAL:HG22	1.95	0.48
5:aC:131:ILE:HD13	5:aC:140:ILE:HD11	1.96	0.48
5:aI:86:ILE:HD11	5:aI:118:ARG:HE	1.78	0.48
5:ae:131:ILE:HD13	5:ae:140:ILE:HD11	1.96	0.48
5:as:131:ILE:HD13	5:as:140:ILE:HD11	1.96	0.48
5:bP:99:ASN:HB3	5:bP:102:VAL:HG22	1.94	0.48
5:bV:99:ASN:HB3	5:bV:102:VAL:HG22	1.95	0.48
5:bW:131:ILE:HD13	5:bW:140:ILE:HD11	1.96	0.48
5:bd:99:ASN:HB3	5:bd:102:VAL:HG22	1.95	0.48
5:bg:73:GLU:O	5:bg:77:LEU:HG	2.14	0.48
5:bk:73:GLU:O	5:bk:77:LEU:HG	2.14	0.48
5:bp:99:ASN:HB3	5:bp:102:VAL:HG22	1.95	0.48
5:bz:99:ASN:HB3	5:bz:102:VAL:HG22	1.95	0.48
5:cF:99:ASN:HB3	5:cF:102:VAL:HG22	1.95	0.48
5:cU:131:ILE:HD13	5:cU:140:ILE:HD11	1.96	0.48
5:cd:99:ASN:HB3	5:cd:102:VAL:HG22	1.95	0.48
5:cu:131:ILE:HD13	5:cu:140:ILE:HD11	1.96	0.48
5:cy:131:ILE:HD13	5:cy:140:ILE:HD11	1.96	0.48
5:cz:75:GLN:NE2	5:cz:79:GLU:OE1	2.45	0.48
5:dK:131:ILE:HD13	5:dK:140:ILE:HD11	1.96	0.48
5:dP:99:ASN:HB3	5:dP:102:VAL:HG22	1.95	0.48
5:da:55:ILE:O	5:da:59:ILE:HG12	2.13	0.48
5:db:99:ASN:HB3	5:db:102:VAL:HG22	1.95	0.48
5:dn:103:LEU:HD12	5:dn:113:ILE:HG23	1.95	0.48
5:dp:103:LEU:HD12	5:dp:113:ILE:HG23	1.94	0.48
5:dy:56:ASN:HB2	5:eg:146:GLU:N	2.28	0.48
5:dy:56:ASN:HD22	5:eg:145:GLY:HA3	1.78	0.48
5:eB:122:VAL:HG11	5:eB:151:LEU:HD13	1.95	0.48
5:eF:99:ASN:HB3	5:eF:102:VAL:HG22	1.95	0.48
5:eG:56:ASN:HB3	5:eo:147:ILE:HG22	1.95	0.48
5:eH:103:LEU:HD12	5:eH:113:ILE:HG23	1.94	0.48
5:eL:99:ASN:HB3	5:eL:102:VAL:HG22	1.95	0.48
5:eT:99:ASN:HB3	5:eT:102:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eZ:99:ASN:HB3	5:eZ:102:VAL:HG22	1.95	0.48
5:em:73:GLU:O	5:em:77:LEU:HG	2.14	0.48
5:er:99:ASN:HB3	5:er:102:VAL:HG22	1.95	0.48
5:fK:86:ILE:HD11	5:fK:118:ARG:HE	1.79	0.48
5:fL:103:LEU:HD12	5:fL:113:ILE:HG23	1.95	0.48
5:fX:99:ASN:HB3	5:fX:102:VAL:HG22	1.95	0.48
5:fb:75:GLN:NE2	5:fb:79:GLU:OE1	2.44	0.48
5:fj:103:LEU:HD12	5:fj:113:ILE:HG23	1.94	0.48
5:fk:73:GLU:O	5:fk:77:LEU:HG	2.13	0.48
5:fw:73:GLU:O	5:fw:77:LEU:HG	2.14	0.48
5:fw:131:ILE:HD13	5:fw:140:ILE:HD11	1.96	0.48
1:AL:261:ILE:HD12	1:AL:312:LEU:HD23	1.96	0.48
1:AY:164:GLN:HE22	1:AY:308:ARG:HA	1.78	0.48
1:An:152:LEU:HD21	2:CG:105:SER:HA	1.96	0.48
1:Ao:307:THR:HG22	2:CL:32:LEU:HB2	1.95	0.48
1:Av:205:VAL:HG12	1:Av:259:ILE:HG23	1.95	0.48
1:Ax:49:TRP:CZ3	1:Ax:74:SER:HB3	2.49	0.48
1:BB:66:THR:HG22	2:Vk:52:CYS:HB3	1.95	0.48
1:BJ:152:LEU:HD21	2:CX:105:SER:HA	1.95	0.48
1:BP:66:THR:HG22	2:CX:52:CYS:HB3	1.95	0.48
1:Bd:143:LYS:HA	2:Bw:39:ARG:HD2	1.96	0.48
2:CI:77:PHE:CD1	4:Cy:138:LYS:HG2	2.48	0.48
2:Cb:167:THR:HG22	2:Cb:168:GLU:H	1.78	0.48
4:Cq:171:GLN:HB2	4:Cq:177:TYR:CE1	2.49	0.48
4:Ct:58:LYS:HD3	4:Ct:119:PRO:HG2	1.95	0.48
4:Cv:77:ILE:HG13	4:Cv:91:PRO:HB3	1.96	0.48
4:Cv:142:ILE:HD11	4:Cv:152:VAL:HG13	1.96	0.48
4:DE:141:LEU:HD11	4:DE:165:ALA:HB2	1.96	0.48
1:Eu:77:VAL:HG21	2:GW:32:LEU:HD23	1.96	0.48
1:FD:80:ASN:ND2	1:FD:153:PRO:O	2.47	0.48
1:Fe:307:THR:HB	1:Fe:310:THR:HG21	1.95	0.48
1:Fg:161:MET:HE3	1:Fg:306:ALA:HB3	1.96	0.48
1:Fq:133:PHE:O	1:Fq:137:GLY:N	2.41	0.48
2:Ga:69:TYR:HB2	2:Ga:101:ILE:HD12	1.95	0.48
2:Gi:183:ILE:HD12	4:He:188:ALA:HB3	1.94	0.48
2:HF:23:LYS:N	2:HF:67:TYR:OH	2.47	0.48
4:Hd:73:VAL:HG21	4:Hd:117:ILE:HD13	1.96	0.48
4:Ho:71:ARG:NH1	4:Ho:146:ASP:O	2.45	0.48
1:Ji:77:VAL:HG11	1:Ji:305:LEU:HD13	1.95	0.48
1:KG:205:VAL:HG12	1:KG:259:ILE:HG23	1.95	0.48
1:KO:164:GLN:HE22	1:KO:308:ARG:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KS:161:MET:HE3	1:KS:306:ALA:HB3	1.96	0.48
1:KT:307:THR:HB	1:KT:310:THR:HG21	1.95	0.48
1:Ki:55:ALA:O	1:Km:86:TYR:OH	2.21	0.48
1:Ko:8:TYR:CD2	1:Ko:93:GLN:HG3	2.48	0.48
1:LF:178:ASP:N	1:LF:178:ASP:OD1	2.47	0.48
1:LH:25:MET:HE1	1:LH:130:ILE:HG22	1.96	0.48
2:LO:167:THR:HG22	2:LO:168:GLU:H	1.78	0.48
2:Lf:77:PHE:HD2	4:MY:138:LYS:HG3	1.79	0.48
2:Lo:148:VAL:HG11	2:Lo:153:LYS:HD3	1.94	0.48
2:Lo:166:LEU:HB2	2:Lo:170:LEU:HD23	1.96	0.48
2:Lp:56:LYS:NZ	2:Lq:55:SER:O	2.47	0.48
4:MO:137:VAL:HG12	4:MO:138:LYS:HG3	1.96	0.48
4:MR:65:LEU:HD23	4:MR:92:HIS:CG	2.48	0.48
4:Mk:14:LYS:HG3	4:Ml:14:LYS:HG3	1.94	0.48
1:OX:77:VAL:HG11	1:OX:305:LEU:HD13	1.95	0.48
1:Oy:158:LEU:HB3	1:Oy:260:LEU:HD21	1.96	0.48
1:PF:80:ASN:ND2	1:PF:153:PRO:O	2.46	0.48
1:PM:135:LEU:HD21	1:PM:255:LEU:HG	1.95	0.48
1:PN:152:LEU:HD21	2:Qd:105:SER:HA	1.96	0.48
1:PR:87:LYS:NZ	4:RT:53:THR:O	2.43	0.48
1:PS:47:VAL:HG22	1:PS:76:VAL:HG22	1.96	0.48
1:PX:57:PRO:HB2	1:Pb:84:LEU:HD13	1.96	0.48
1:Pd:8:TYR:CD2	1:Pd:93:GLN:HG3	2.48	0.48
1:Ph:257:HIS:CE1	1:Ph:318:GLN:HG3	2.49	0.48
1:Pk:244:ARG:NH2	1:Pn:231:GLU:OE2	2.33	0.48
1:Pm:165:ILE:HD13	1:Pm:191:LEU:HD23	1.96	0.48
1:Pu:296:TYR:HE2	1:Pw:67:ILE:HG13	1.78	0.48
1:Pw:25:MET:HE1	1:Pw:130:ILE:HG22	1.96	0.48
1:Pw:91:LEU:HD21	1:Pw:112:LEU:HD13	1.96	0.48
1:Px:80:ASN:ND2	1:Px:153:PRO:O	2.34	0.48
2:QN:37:ASP:O	2:QN:41:GLN:NE2	2.46	0.48
2:Qk:181:ARG:NH2	2:Ql:92:ASP:O	2.46	0.48
2:Qv:52:CYS:HB3	1:UJ:66:THR:HG22	1.95	0.48
4:RO:77:ILE:HG13	4:RO:91:PRO:HB3	1.96	0.48
1:TN:89:ARG:HH21	1:TN:112:LEU:HD21	1.78	0.48
1:TU:41:MET:HE3	1:TU:82:LEU:HD12	1.95	0.48
1:TW:80:ASN:ND2	1:TW:153:PRO:O	2.47	0.48
1:Td:152:LEU:HD21	2:VD:105:SER:HA	1.96	0.48
1:Ti:79:LEU:HD11	1:Ti:305:LEU:HB2	1.94	0.48
1:Tz:3:LEU:HD23	2:VO:19:GLN:HG3	1.96	0.48
1:UA:158:LEU:HB3	1:UA:260:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UK:87:LYS:NZ	2:Vc:53:THR:O	2.39	0.48
1:UX:80:ASN:ND2	1:UX:153:PRO:O	2.32	0.48
1:UZ:59:THR:O	2:Vl:61:ASN:ND2	2.47	0.48
1:Ua:13:VAL:HA	1:Ua:16:ILE:HG22	1.96	0.48
1:Uj:296:TYR:HE2	1:Ul:67:ILE:HG13	1.78	0.48
2:VA:140:ASN:OD1	2:VA:144:GLU:N	2.46	0.48
2:VE:133:PRO:HG3	2:VE:161:SER:HA	1.95	0.48
2:Vk:100:ASP:HB3	2:Vk:109:THR:HB	1.96	0.48
6:YA:85:THR:HA	6:YA:102:ILE:HG12	1.96	0.48
5:YR:86:ILE:HG13	5:YR:118:ARG:HE	1.79	0.48
5:Ye:130:GLN:OE1	5:Ye:130:GLN:N	2.45	0.48
5:ZL:72:ILE:O	5:ZL:76:LEU:HG	2.14	0.48
5:ZL:82:ARG:HE	5:ZL:86:ILE:HG13	1.79	0.48
5:ZT:99:ASN:HB3	5:ZT:102:VAL:HG22	1.95	0.48
5:ZW:73:GLU:O	5:ZW:77:LEU:HG	2.14	0.48
5:Za:79:GLU:O	5:Za:83:ILE:HG12	2.13	0.48
5:Ze:73:GLU:O	5:Ze:77:LEU:HG	2.14	0.48
5:Zo:95:SER:HB3	5:Zo:98:PHE:HE1	1.79	0.48
5:Zy:131:ILE:HD13	5:Zy:140:ILE:HD11	1.96	0.48
5:aE:131:ILE:HD13	5:aE:140:ILE:HD11	1.96	0.48
5:aG:86:ILE:HD11	5:aG:118:ARG:HE	1.78	0.48
5:aO:131:ILE:HD13	5:aO:140:ILE:HD11	1.96	0.48
5:aP:99:ASN:HB3	5:aP:102:VAL:HG22	1.95	0.48
5:aW:131:ILE:HD13	5:aW:140:ILE:HD11	1.96	0.48
5:aX:99:ASN:HB3	5:aX:102:VAL:HG22	1.95	0.48
5:ae:73:GLU:O	5:ae:77:LEU:HG	2.14	0.48
5:ak:131:ILE:HD13	5:ak:140:ILE:HD11	1.96	0.48
5:au:73:GLU:O	5:au:77:LEU:HG	2.14	0.48
5:au:131:ILE:HD13	5:au:140:ILE:HD11	1.96	0.48
5:ay:73:GLU:O	5:ay:77:LEU:HG	2.14	0.48
5:ay:131:ILE:HD13	5:ay:140:ILE:HD11	1.96	0.48
5:bC:73:GLU:O	5:bC:77:LEU:HG	2.14	0.48
5:bD:99:ASN:HB3	5:bD:102:VAL:HG22	1.95	0.48
5:bI:73:GLU:O	5:bI:77:LEU:HG	2.14	0.48
5:bQ:131:ILE:HD13	5:bQ:140:ILE:HD11	1.96	0.48
5:bZ:99:ASN:HB3	5:bZ:102:VAL:HG22	1.95	0.48
5:bb:75:GLN:NE2	5:bb:79:GLU:OE1	2.44	0.48
5:bi:131:ILE:HD13	5:bi:140:ILE:HD11	1.96	0.48
5:bt:103:LEU:HD12	5:bt:113:ILE:HG23	1.94	0.48
5:cA:55:ILE:HG21	5:cg:116:ALA:HB2	1.95	0.48
5:cE:131:ILE:HD13	5:cE:140:ILE:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:cP:99:ASN:HB3	5:cP:102:VAL:HG22	1.95	0.48
5:cS:131:ILE:HD13	5:cS:140:ILE:HD11	1.96	0.48
5:cT:103:LEU:HD12	5:cT:113:ILE:HG23	1.95	0.48
5:cV:99:ASN:HB3	5:cV:102:VAL:HG22	1.94	0.48
5:cW:111:LYS:HZ2	5:cZ:74:LYS:HE3	1.79	0.48
5:ce:131:ILE:HD13	5:ce:140:ILE:HD11	1.96	0.48
5:cg:131:ILE:HD13	5:cg:140:ILE:HD11	1.96	0.48
5:cw:73:GLU:O	5:cw:77:LEU:HG	2.14	0.48
5:dF:75:GLN:NE2	5:dF:79:GLU:OE1	2.45	0.48
5:dJ:103:LEU:HD12	5:dJ:113:ILE:HG23	1.94	0.48
5:dL:99:ASN:HB3	5:dL:102:VAL:HG22	1.95	0.48
5:dS:73:GLU:O	5:dS:77:LEU:HG	2.14	0.48
5:dS:111:LYS:HZ2	5:dV:74:LYS:HE3	1.78	0.48
5:dU:131:ILE:HD13	5:dU:140:ILE:HD11	1.95	0.48
5:dW:55:ILE:O	5:dW:59:ILE:HG12	2.13	0.48
5:de:73:GLU:O	5:de:77:LEU:HG	2.14	0.48
5:dr:99:ASN:HB3	5:dr:102:VAL:HG22	1.95	0.48
5:dv:99:ASN:HB3	5:dv:102:VAL:HG22	1.95	0.48
5:eC:56:ASN:HB2	5:ek:146:GLU:N	2.28	0.48
5:eE:73:GLU:O	5:eE:77:LEU:HG	2.14	0.48
5:ec:73:GLU:O	5:ec:77:LEU:HG	2.13	0.48
5:ek:116:ALA:HB1	5:fQ:55:ILE:HD13	1.95	0.48
5:ex:103:LEU:HD12	5:ex:113:ILE:HG23	1.94	0.48
5:ey:131:ILE:HD13	5:ey:140:ILE:HD11	1.96	0.48
5:fU:131:ILE:HD13	5:fU:140:ILE:HD11	1.96	0.48
5:fc:73:GLU:O	5:fc:77:LEU:HG	2.14	0.48
5:ff:99:ASN:HB3	5:ff:102:VAL:HG22	1.95	0.48
5:gC:131:ILE:HD13	5:gC:140:ILE:HD11	1.96	0.48
1:AB:286:ASP:HB2	1:AB:294:HIS:HB2	1.96	0.48
1:AP:89:ARG:HH21	1:AP:112:LEU:HD13	1.79	0.48
1:AX:225:SER:HB3	1:Bd:224:ALA:HB3	1.95	0.48
1:Ae:55:ALA:O	1:Ai:86:TYR:OH	2.29	0.48
1:Af:158:LEU:HB3	1:Af:260:LEU:HD21	1.96	0.48
1:Ah:152:LEU:HD21	4:Cv:112:SER:HA	1.95	0.48
1:Ap:307:THR:HB	1:Ap:310:THR:HG21	1.95	0.48
1:Ar:161:MET:HE3	1:Ar:306:ALA:HB3	1.96	0.48
1:BB:81:TYR:OH	1:BB:272:LYS:O	2.29	0.48
1:BB:87:LYS:NZ	2:CT:53:THR:O	2.32	0.48
1:BI:80:ASN:ND2	1:BI:153:PRO:O	2.47	0.48
1:BP:24:ILE:HG12	1:BP:131:ASN:ND2	2.28	0.48
1:BS:49:TRP:CZ3	1:BS:74:SER:HB3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:80:ASN:ND2	1:Bb:154:ASN:HB2	2.29	0.48
1:Bd:45:LYS:HE2	1:Bd:78:ARG:HD3	1.96	0.48
1:Bd:49:TRP:CZ3	1:Bd:74:SER:HB3	2.49	0.48
2:Bz:167:THR:HG22	2:Bz:168:GLU:H	1.78	0.48
2:CN:77:PHE:CD2	4:Cz:138:LYS:HG2	2.49	0.48
2:CX:75:LEU:HD22	2:CX:84:LEU:HD13	1.96	0.48
4:Cx:137:VAL:HG12	4:Cx:138:LYS:HG3	1.96	0.48
1:FJ:164:GLN:HE22	1:FJ:308:ARG:HA	1.78	0.48
1:FP:49:TRP:CZ3	1:FP:74:SER:HB3	2.48	0.48
1:Fc:152:LEU:HD21	2:Gv:105:SER:HA	1.96	0.48
1:Fj:59:THR:OG1	4:Md:61:ASN:ND2	2.47	0.48
1:Fr:49:TRP:CE3	1:Fr:74:SER:HB3	2.48	0.48
1:Fr:52:PHE:HB3	4:Hs:41:LYS:HE2	1.95	0.48
1:Fz:174:LYS:O	1:Fz:212:LYS:NZ	2.46	0.48
1:GH:49:TRP:CZ3	1:GH:74:SER:HB3	2.48	0.48
1:GL:45:LYS:HE2	1:GL:78:ARG:HD3	1.96	0.48
2:Gg:167:THR:HB	2:Gg:170:LEU:HB3	1.96	0.48
2:Gq:138:ASN:HD22	2:Gq:153:LYS:HE2	1.79	0.48
2:Gz:166:LEU:HB2	2:Gz:170:LEU:HD23	1.96	0.48
2:HC:77:PHE:CD2	4:Ho:138:LYS:HG2	2.49	0.48
4:Ha:93:VAL:HG21	4:Ha:117:ILE:HD11	1.96	0.48
4:Hf:149:LEU:HD13	4:Hf:181:VAL:HG21	1.96	0.48
4:Hk:142:ILE:HD11	4:Hk:152:VAL:HG13	1.96	0.48
4:Hv:26:GLN:NE2	4:Hv:28:ASP:OD1	2.47	0.48
1:KJ:158:LEU:HB3	1:KJ:260:LEU:HD21	1.96	0.48
1:KQ:80:ASN:ND2	1:KQ:153:PRO:O	2.46	0.48
1:Kb:49:TRP:CZ3	1:Kb:74:SER:HB3	2.49	0.48
1:LH:49:TRP:CZ3	1:LH:74:SER:HB3	2.49	0.48
1:LH:91:LEU:HD21	1:LH:112:LEU:HD13	1.96	0.48
2:LV:153:LYS:O	2:LV:181:ARG:NH2	2.47	0.48
2:Lq:125:LYS:NZ	2:Lq:169:ASP:OD1	2.39	0.48
2:Ls:156:ASN:ND2	2:Ls:180:ASN:O	2.46	0.48
4:MU:28:ASP:OD2	1:On:78:ARG:NH2	2.47	0.48
5:ND:187:ALA:O	5:ND:208:ASN:ND2	2.41	0.48
1:On:26:TYR:O	5:Rx:218:TYR:OH	2.23	0.48
1:Oo:307:THR:HG22	2:QG:32:LEU:HB2	1.96	0.48
1:Op:41:MET:HE1	4:RJ:112:SER:HB3	1.95	0.48
1:Ov:205:VAL:HG12	1:Ov:259:ILE:HG23	1.95	0.48
1:Ox:55:ALA:O	1:PB:86:TYR:OH	2.29	0.48
1:PD:164:GLN:HE22	1:PD:308:ARG:HA	1.78	0.48
1:PF:50:ASP:OD1	1:PF:51:ALA:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PU:158:LEU:HB3	1:PU:260:LEU:HD21	1.96	0.48
1:PU:174:LYS:O	1:PU:212:LYS:NZ	2.46	0.48
1:PV:26:TYR:O	5:Sf:218:TYR:OH	2.28	0.48
1:PX:196:GLU:OE1	1:PX:265:ASN:ND2	2.43	0.48
1:Pc:135:LEU:HD21	1:Pc:255:LEU:HG	1.96	0.48
1:Pw:45:LYS:HE2	1:Pw:78:ARG:HD3	1.96	0.48
2:QE:69:TYR:HB2	2:QE:101:ILE:HD12	1.95	0.48
2:QF:74:LYS:HE2	2:QF:89:GLY:HA3	1.96	0.48
2:Qd:166:LEU:HB2	2:Qd:170:LEU:HD23	1.96	0.48
2:Qg:77:PHE:CD2	4:RS:138:LYS:HG2	2.49	0.48
4:RR:65:LEU:HD12	4:RR:92:HIS:NE2	2.28	0.48
1:UN:272:LYS:N	1:UN:303:GLY:O	2.37	0.48
1:US:13:VAL:HA	1:US:16:ILE:HG22	1.95	0.48
1:UX:196:GLU:HB3	1:UX:265:ASN:HD22	1.79	0.48
2:VJ:77:PHE:HD2	4:WC:138:LYS:HG3	1.79	0.48
2:Ve:165:LYS:HE3	2:Ve:168:GLU:HA	1.96	0.48
4:Vy:171:GLN:HB2	4:Vy:177:TYR:CE1	2.49	0.48
4:WD:142:ILE:HD11	4:WD:152:VAL:HG13	1.96	0.48
6:Xx:181:GLU:HG3	6:YG:168:LEU:HD11	1.96	0.48
6:Xy:85:THR:HA	6:Xy:102:ILE:HG12	1.96	0.48
6:Xz:273:THR:HG22	6:Xz:275:SER:H	1.79	0.48
6:YB:305:GLU:O	6:YB:309:ARG:HG3	2.14	0.48
5:YW:140:ILE:HA	5:YW:143:ILE:HG22	1.96	0.48
5:YW:147:ILE:HG13	5:YW:150:GLN:NE2	2.28	0.48
5:Yf:85:GLU:OE2	5:Yf:89:LEU:HD23	2.14	0.48
5:Yy:75:GLN:O	5:Yy:79:GLU:HG2	2.13	0.48
5:ZB:83:ILE:HG12	5:ZB:114:MET:HG3	1.96	0.48
5:ZI:58:ARG:HG3	5:ZI:59:ILE:HD13	1.95	0.48
5:ZJ:128:ILE:O	5:ZJ:132:LYS:HG2	2.14	0.48
5:ZS:73:GLU:O	5:ZS:77:LEU:HG	2.14	0.48
5:ZU:103:LEU:HD12	5:ZU:113:ILE:HG23	1.95	0.48
5:ZZ:99:ASN:HB3	5:ZZ:102:VAL:HG22	1.95	0.48
5:Zc:103:LEU:HD12	5:Zc:113:ILE:HG23	1.94	0.48
5:Zo:55:ILE:HD13	5:aU:116:ALA:HB1	1.96	0.48
5:Zr:103:LEU:HD12	5:Zr:113:ILE:HG23	1.94	0.48
5:Zu:73:GLU:O	5:Zu:77:LEU:HG	2.14	0.48
5:aD:99:ASN:HB3	5:aD:102:VAL:HG22	1.95	0.48
5:aJ:99:ASN:HB3	5:aJ:102:VAL:HG22	1.95	0.48
5:aa:86:ILE:HD11	5:aa:118:ARG:HE	1.78	0.48
5:ad:75:GLN:NE2	5:ad:79:GLU:OE1	2.45	0.48
5:ah:99:ASN:HB3	5:ah:102:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:aq:131:ILE:HD13	5:aq:140:ILE:HD11	1.96	0.48
5:at:99:ASN:HB3	5:at:102:VAL:HG22	1.95	0.48
5:aw:131:ILE:HD13	5:aw:140:ILE:HD11	1.96	0.48
5:bC:131:ILE:HD13	5:bC:140:ILE:HD11	1.96	0.48
5:bI:55:ILE:O	5:bI:59:ILE:HG12	2.12	0.48
5:bK:103:LEU:HD12	5:bK:113:ILE:HG23	1.95	0.48
5:bk:86:ILE:HD11	5:bk:118:ARG:HE	1.79	0.48
5:bl:103:LEU:HD12	5:bl:113:ILE:HG23	1.94	0.48
5:bm:55:ILE:O	5:bm:59:ILE:HG12	2.13	0.48
5:bm:103:LEU:HD12	5:bm:113:ILE:HG23	1.96	0.48
5:cC:131:ILE:HD13	5:cC:140:ILE:HD11	1.96	0.48
5:ca:73:GLU:O	5:ca:77:LEU:HG	2.14	0.48
5:cb:99:ASN:HB3	5:cb:102:VAL:HG22	1.95	0.48
5:ce:111:LYS:HZ2	5:ch:74:LYS:HE3	1.77	0.48
5:ch:99:ASN:HB3	5:ch:102:VAL:HG22	1.95	0.48
5:ci:73:GLU:O	5:ci:77:LEU:HG	2.14	0.48
5:cl:99:ASN:HB3	5:cl:102:VAL:HG22	1.95	0.48
5:cv:99:ASN:HB3	5:cv:102:VAL:HG22	1.95	0.48
5:cv:103:LEU:HD12	5:cv:113:ILE:HG23	1.95	0.48
5:dC:86:ILE:HD11	5:dC:118:ARG:HE	1.78	0.48
5:dJ:75:GLN:NE2	5:dJ:79:GLU:OE1	2.44	0.48
5:dJ:99:ASN:HB3	5:dJ:102:VAL:HG22	1.95	0.48
5:dc:131:ILE:HD13	5:dc:140:ILE:HD11	1.96	0.48
5:dg:56:ASN:HB2	5:eO:146:GLU:N	2.28	0.48
5:dq:56:ASN:HD22	5:eY:145:GLY:HA3	1.78	0.48
5:du:57:GLU:HA	5:du:60:THR:HG22	1.96	0.48
5:eF:122:VAL:HG11	5:eF:151:LEU:HD13	1.95	0.48
5:ed:75:GLN:NE2	5:ed:79:GLU:OE1	2.44	0.48
5:et:99:ASN:HB3	5:et:102:VAL:HG22	1.95	0.48
5:fO:86:ILE:HD11	5:fO:118:ARG:HE	1.78	0.48
5:fO:131:ILE:HD13	5:fO:140:ILE:HD11	1.96	0.48
5:fZ:99:ASN:HB3	5:fZ:102:VAL:HG22	1.95	0.48
5:fe:73:GLU:O	5:fe:77:LEU:HG	2.13	0.48
5:fo:131:ILE:HD13	5:fo:140:ILE:HD11	1.96	0.48
5:ft:103:LEU:HD12	5:ft:113:ILE:HG23	1.94	0.48
5:fv:103:LEU:HD12	5:fv:113:ILE:HG23	1.94	0.48
1:AT:84:LEU:HD13	1:Te:57:PRO:HG2	1.95	0.47
1:Ae:26:TYR:O	5:Do:218:TYR:OH	2.30	0.47
1:Af:242:ASN:ND2	1:Af:245:GLU:HB2	2.30	0.47
1:Ai:48:LYS:HE2	1:Ai:75:GLU:HB2	1.95	0.47
1:At:286:ASP:HB2	1:At:294:HIS:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Au:152:LEU:HD21	2:CK:105:SER:HA	1.96	0.47
1:BB:33:GLN:NE2	1:BB:269:ILE:O	2.38	0.47
1:BB:158:LEU:HB3	1:BB:260:LEU:HD21	1.96	0.47
1:BR:59:THR:O	2:Cd:61:ASN:ND2	2.47	0.47
1:BR:165:ILE:HD13	1:BR:191:LEU:HD23	1.96	0.47
1:BS:225:SER:HB3	1:BZ:224:ALA:HB3	1.94	0.47
1:BT:57:PRO:HB2	1:BX:84:LEU:HD13	1.96	0.47
1:BV:107:ASP:OD2	1:BV:110:ASN:ND2	2.34	0.47
1:Ba:261:ILE:HD12	1:Ba:312:LEU:HD23	1.96	0.47
2:Bm:74:LYS:HE2	2:Bm:89:GLY:HA3	1.96	0.47
2:Bs:140:ASN:OD1	2:Bs:144:GLU:N	2.46	0.47
2:Bt:133:PRO:HG3	2:Bt:161:SER:HA	1.96	0.47
2:Cc:52:CYS:HB3	1:Fq:66:THR:HG22	1.95	0.47
2:Cc:100:ASP:HB3	2:Cc:109:THR:HB	1.96	0.47
4:DE:142:ILE:HD11	4:DE:152:VAL:HG23	1.96	0.47
4:DG:26:GLN:NE2	4:DG:28:ASP:OD1	2.47	0.47
4:DG:149:LEU:HD13	4:DG:181:VAL:HG21	1.96	0.47
1:Eq:286:ASP:HB2	1:Eq:294:HIS:HB2	1.96	0.47
1:FU:158:LEU:HB3	1:FU:260:LEU:HD21	1.96	0.47
1:FZ:55:ALA:HB2	2:Gw:51:VAL:HB	1.95	0.47
1:Fo:47:VAL:HG22	1:Fo:76:VAL:HG22	1.96	0.47
1:Fw:45:LYS:HE2	1:Fw:78:ARG:HD3	1.96	0.47
1:Fz:8:TYR:CD2	1:Fz:93:GLN:HG3	2.48	0.47
1:GP:78:ARG:O	1:GP:154:ASN:ND2	2.35	0.47
2:Ga:165:LYS:HE3	2:Ga:168:GLU:HA	1.95	0.47
4:HZ:137:VAL:HG12	4:HZ:138:LYS:HG3	1.95	0.47
1:Jl:77:VAL:HG11	1:Jl:305:LEU:HD13	1.96	0.47
1:KL:152:LEU:HD21	4:MZ:112:SER:HA	1.95	0.47
1:KY:49:TRP:CE3	1:PQ:113:LEU:HD11	2.49	0.47
1:Kw:196:GLU:HB3	1:Kw:265:ASN:HD22	1.79	0.47
2:LO:140:ASN:HD21	2:LO:144:GLU:HB2	1.79	0.47
2:LV:183:ILE:N	4:MS:188:ALA:O	2.40	0.47
2:Lm:77:PHE:CD1	4:Mc:138:LYS:HG2	2.48	0.47
2:Lr:77:PHE:CD2	4:Md:138:LYS:HG2	2.49	0.47
2:Ls:153:LYS:O	2:Ls:181:ARG:NH1	2.47	0.47
2:MK:125:LYS:HD2	2:MK:169:ASP:HA	1.96	0.47
1:PM:286:ASP:HB2	1:PM:294:HIS:HB2	1.95	0.47
1:Ph:288:ASP:OD1	1:Ph:289:SER:N	2.43	0.47
1:Pp:140:SER:HB2	1:Pp:148:GLN:HG2	1.95	0.47
1:Pw:16:ILE:HD11	1:Pw:120:LYS:HE3	1.95	0.47
2:Qf:75:LEU:HB3	2:Qf:84:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Qr:125:LYS:HD2	2:Qr:169:ASP:HA	1.95	0.47
4:RH:141:LEU:HD11	4:RH:165:ALA:HB2	1.95	0.47
4:RL:149:LEU:HD13	4:RL:181:VAL:HG21	1.95	0.47
4:RY:149:LEU:HD13	4:RY:181:VAL:HG21	1.94	0.47
1:TT:261:ILE:HD12	1:TT:312:LEU:HD23	1.96	0.47
1:Tf:225:SER:HB3	1:Ul:224:ALA:HB3	1.95	0.47
1:Tl:20:VAL:O	5:Wv:213:ARG:NH2	2.34	0.47
1:Ty:45:LYS:HG2	1:Ty:78:ARG:HB2	1.96	0.47
1:UM:57:PRO:HB2	1:UQ:84:LEU:HD13	1.96	0.47
1:US:8:TYR:CD2	1:US:93:GLN:HG3	2.48	0.47
1:UW:257:HIS:CE1	1:UW:318:GLN:HG3	2.49	0.47
1:Uj:52:PHE:CZ	1:Uj:71:GLY:HA3	2.49	0.47
1:Ul:49:TRP:CZ3	1:Ul:74:SER:HB3	2.49	0.47
2:VP:167:THR:HB	2:VP:170:LEU:HB3	1.97	0.47
2:VW:156:ASN:ND2	2:VW:180:ASN:O	2.46	0.47
4:WO:26:GLN:NE2	4:WO:28:ASP:OD1	2.47	0.47
4:WQ:142:ILE:HD11	4:WQ:152:VAL:HG23	1.95	0.47
6:Xz:305:GLU:O	6:Xz:309:ARG:HG3	2.14	0.47
6:YD:305:GLU:O	6:YD:309:ARG:HG3	2.14	0.47
5:YN:68:GLU:O	5:YN:72:ILE:HG13	2.13	0.47
5:Yh:73:GLU:O	5:Yh:77:LEU:HG	2.14	0.47
5:Ys:130:GLN:NE2	5:Yt:157:VAL:HG11	2.29	0.47
5:ZA:79:GLU:O	5:ZA:83:ILE:HG12	2.14	0.47
5:ZE:73:GLU:O	5:ZE:77:LEU:HG	2.14	0.47
5:ZH:75:GLN:NE2	5:ZH:79:GLU:OE1	2.46	0.47
5:ZO:55:ILE:HG22	5:ZS:116:ALA:CB	2.43	0.47
5:ZY:95:SER:HB3	5:ZY:98:PHE:HE1	1.78	0.47
5:Zc:73:GLU:O	5:Zc:77:LEU:HG	2.14	0.47
5:aC:73:GLU:O	5:aC:77:LEU:HG	2.14	0.47
5:aF:99:ASN:HB3	5:aF:102:VAL:HG22	1.95	0.47
5:ai:131:ILE:HD13	5:ai:140:ILE:HD11	1.96	0.47
5:al:99:ASN:HB3	5:al:102:VAL:HG22	1.95	0.47
5:ar:99:ASN:HB3	5:ar:102:VAL:HG22	1.95	0.47
5:bE:131:ILE:HD13	5:bE:140:ILE:HD11	1.96	0.47
5:bM:111:LYS:HZ2	5:bP:74:LYS:HE3	1.79	0.47
5:bT:99:ASN:HB3	5:bT:102:VAL:HG22	1.95	0.47
5:ba:131:ILE:HD13	5:ba:140:ILE:HD11	1.96	0.47
5:bc:98:PHE:HB3	5:bc:117:GLN:HE22	1.79	0.47
5:bi:73:GLU:O	5:bi:77:LEU:HG	2.14	0.47
5:bj:103:LEU:HD12	5:bj:113:ILE:HG23	1.95	0.47
5:bx:103:LEU:HD12	5:bx:113:ILE:HG23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:by:55:ILE:HG21	5:ce:116:ALA:HB2	1.95	0.47
5:bz:103:LEU:HD12	5:bz:113:ILE:HG23	1.94	0.47
5:cD:99:ASN:HB3	5:cD:102:VAL:HG22	1.95	0.47
5:dC:131:ILE:HD13	5:dC:140:ILE:HD11	1.96	0.47
5:dF:99:ASN:HB3	5:dF:102:VAL:HG22	1.95	0.47
5:dF:103:LEU:HD12	5:dF:113:ILE:HG23	1.95	0.47
5:dH:75:GLN:NE2	5:dH:79:GLU:OE1	2.45	0.47
5:dM:86:ILE:HD11	5:dM:118:ARG:HE	1.78	0.47
5:dW:131:ILE:HD13	5:dW:140:ILE:HD11	1.96	0.47
5:da:131:ILE:HD13	5:da:140:ILE:HD11	1.96	0.47
5:db:103:LEU:HD12	5:db:113:ILE:HG23	1.94	0.47
5:eK:73:GLU:O	5:eK:77:LEU:HG	2.14	0.47
5:eR:99:ASN:HB3	5:eR:102:VAL:HG22	1.95	0.47
5:eU:143:ILE:HG22	5:eU:143:ILE:O	2.14	0.47
5:eV:99:ASN:HB3	5:eV:102:VAL:HG22	1.95	0.47
5:ej:99:ASN:HB3	5:ej:102:VAL:HG22	1.95	0.47
5:fH:99:ASN:HB3	5:fH:102:VAL:HG22	1.95	0.47
5:fI:131:ILE:HD13	5:fI:140:ILE:HD11	1.96	0.47
5:fb:99:ASN:HB3	5:fb:102:VAL:HG22	1.95	0.47
5:ff:103:LEU:HD12	5:ff:113:ILE:HG23	1.94	0.47
5:fu:73:GLU:O	5:fu:77:LEU:HG	2.13	0.47
1:AO:80:ASN:ND2	1:AO:153:PRO:O	2.47	0.47
1:Au:49:TRP:CE3	1:Fm:113:LEU:HD11	2.49	0.47
1:Ax:113:LEU:HD11	1:UC:49:TRP:CE3	2.50	0.47
1:Ax:161:MET:SD	2:CP:31:LEU:HD21	2.54	0.47
1:BQ:196:GLU:HB3	1:BQ:265:ASN:HD22	1.79	0.47
1:BS:169:VAL:HB	1:BS:316:ILE:HA	1.96	0.47
1:Bc:157:GLY:N	1:Bc:160:ASN:OD1	2.46	0.47
4:Cx:140:LYS:HD3	4:Cx:161:ILE:HD13	1.96	0.47
1:Er:79:LEU:HD11	1:Er:305:LEU:HB2	1.95	0.47
1:Es:66:THR:HG22	4:Hd:52:ARG:HB3	1.96	0.47
1:Fo:19:GLU:OE1	1:Fo:120:LYS:NZ	2.44	0.47
1:Fz:165:ILE:HD13	1:Fz:191:LEU:HD23	1.95	0.47
1:GG:59:THR:O	2:HS:61:ASN:ND2	2.47	0.47
1:GI:165:ILE:HD13	1:GI:191:LEU:HD23	1.96	0.47
2:Gz:165:LYS:HE3	2:Gz:168:GLU:HA	1.95	0.47
2:HG:181:ARG:NH2	2:HH:92:ASP:O	2.46	0.47
2:HM:75:LEU:HD22	2:HM:84:LEU:HD13	1.96	0.47
2:HU:181:ARG:NH1	2:HV:94:LEU:HB3	2.29	0.47
4:Ht:141:LEU:HD11	4:Ht:165:ALA:HB2	1.96	0.47
1:Js:87:LYS:NZ	2:LS:53:THR:O	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jx:49:TRP:CZ3	1:Jx:74:SER:HB3	2.49	0.47
1:KD:87:LYS:NZ	2:Ld:53:THR:O	2.34	0.47
1:KL:129:LEU:HD11	1:KL:139:VAL:HG13	1.97	0.47
1:KY:152:LEU:HD21	2:Lo:105:SER:HA	1.96	0.47
1:Ka:107:ASP:OD2	1:Ka:110:ASN:ND2	2.29	0.47
1:Ko:286:ASP:HB2	1:Ko:294:HIS:HB2	1.96	0.47
1:Kp:110:ASN:OD1	1:Ks:62:ASN:ND2	2.47	0.47
1:Ku:196:GLU:HB3	1:Ku:265:ASN:HD22	1.79	0.47
1:Kv:165:ILE:HD13	1:Kv:191:LEU:HD23	1.96	0.47
1:Kw:169:VAL:HB	1:Kw:316:ILE:HA	1.96	0.47
1:LE:261:ILE:HD12	1:LE:312:LEU:HD23	1.96	0.47
1:Op:39:LEU:HD11	1:Op:81:TYR:CD2	2.41	0.47
1:Op:57:PRO:HB2	1:Tb:84:LEU:HB3	1.96	0.47
1:Os:146:LYS:HB3	4:RL:88:HIS:HD2	1.78	0.47
1:PJ:13:VAL:HG11	1:PJ:281:PRO:HG2	1.94	0.47
1:PO:174:LYS:O	1:PO:212:LYS:NZ	2.47	0.47
1:PS:41:MET:HE2	1:PS:83:LYS:H	1.79	0.47
1:Pa:288:ASP:OD1	1:Pa:289:SER:N	2.41	0.47
1:Pi:80:ASN:ND2	1:Pi:153:PRO:O	2.32	0.47
1:Px:81:TYR:OH	1:Px:272:LYS:O	2.29	0.47
2:QT:123:LEU:HD21	2:QT:131:VAL:HG21	1.96	0.47
2:Qf:125:LYS:HD2	2:Qf:169:ASP:HA	1.96	0.47
4:RS:71:ARG:NH1	4:RS:146:ASP:O	2.45	0.47
4:RW:144:ASN:OD1	4:RW:148:ALA:N	2.42	0.47
1:TJ:239:LYS:NZ	1:TJ:245:GLU:O	2.46	0.47
1:TJ:286:ASP:HB2	1:TJ:294:HIS:HB2	1.96	0.47
1:TM:77:VAL:HG11	1:TM:305:LEU:HD13	1.95	0.47
1:TU:54:ASN:HA	2:Uu:42:ASN:HD22	1.78	0.47
1:UF:49:TRP:CZ3	1:UF:74:SER:HB3	2.49	0.47
1:UH:47:VAL:HG22	1:UH:76:VAL:HG22	1.96	0.47
1:UN:259:ILE:HB	1:UN:314:VAL:HB	1.95	0.47
1:Ue:140:SER:HB2	1:Ue:148:GLN:HG2	1.95	0.47
1:Ue:288:ASP:OD1	1:Ue:289:SER:N	2.44	0.47
1:Ug:286:ASP:HB2	1:Ug:294:HIS:HB2	1.97	0.47
1:Uh:13:VAL:HA	1:Uh:16:ILE:HG22	1.96	0.47
1:Ui:66:THR:HG22	2:Vj:52:CYS:HB3	1.94	0.47
2:Ut:167:THR:HG22	2:Ut:168:GLU:H	1.78	0.47
2:VS:165:LYS:HE3	2:VS:168:GLU:HA	1.95	0.47
2:Vf:75:LEU:HD22	2:Vf:84:LEU:HD13	1.96	0.47
5:YM:118:ARG:O	5:YM:122:VAL:HG23	2.15	0.47
5:YR:68:GLU:CD	5:YR:71:ARG:HH21	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yq:59:ILE:HG13	5:Zq:98:PHE:HE2	1.78	0.47
5:ZL:99:ASN:HB3	5:ZL:102:VAL:HG22	1.96	0.47
5:ZS:55:ILE:O	5:ZS:59:ILE:HG12	2.13	0.47
5:ZS:113:ILE:O	5:ZS:117:GLN:HG2	2.14	0.47
5:ZS:131:ILE:HD13	5:ZS:140:ILE:HD11	1.96	0.47
5:Zf:99:ASN:HB3	5:Zf:102:VAL:HG22	1.95	0.47
5:Zl:99:ASN:HB3	5:Zl:102:VAL:HG22	1.95	0.47
5:aL:99:ASN:HB3	5:aL:102:VAL:HG22	1.95	0.47
5:ab:75:GLN:NE2	5:ab:79:GLU:OE1	2.44	0.47
5:aj:99:ASN:HB3	5:aj:102:VAL:HG22	1.95	0.47
5:al:103:LEU:HD12	5:al:113:ILE:HG23	1.95	0.47
5:as:73:GLU:O	5:as:77:LEU:HG	2.14	0.47
5:bJ:99:ASN:HB3	5:bJ:102:VAL:HG22	1.95	0.47
5:bK:131:ILE:HD13	5:bK:140:ILE:HD11	1.96	0.47
5:bL:99:ASN:HB3	5:bL:102:VAL:HG22	1.95	0.47
5:bv:99:ASN:HB3	5:bv:102:VAL:HG22	1.95	0.47
5:cA:62:GLU:OE1	5:cg:97:HIS:NE2	2.48	0.47
5:cS:73:GLU:O	5:cS:77:LEU:HG	2.14	0.47
5:cs:131:ILE:HD13	5:cs:140:ILE:HD11	1.97	0.47
5:dB:99:ASN:HB3	5:dB:102:VAL:HG22	1.95	0.47
5:dH:103:LEU:HD12	5:dH:113:ILE:HG23	1.95	0.47
5:dI:73:GLU:O	5:dI:77:LEU:HG	2.14	0.47
5:dI:131:ILE:HD13	5:dI:140:ILE:HD11	1.97	0.47
5:dL:75:GLN:NE2	5:dL:79:GLU:OE1	2.44	0.47
5:dN:99:ASN:HB3	5:dN:102:VAL:HG22	1.95	0.47
5:dU:98:PHE:HB3	5:dU:117:GLN:HE22	1.78	0.47
5:dZ:103:LEU:HD12	5:dZ:113:ILE:HG23	1.94	0.47
5:dk:73:GLU:O	5:dk:77:LEU:HG	2.13	0.47
5:dn:99:ASN:HB3	5:dn:102:VAL:HG22	1.95	0.47
5:dv:122:VAL:HG11	5:dv:151:LEU:HD13	1.96	0.47
5:dy:55:ILE:HD12	5:eg:136:LYS:HZ3	1.79	0.47
5:eI:146:GLU:H	5:eq:56:ASN:HB2	1.79	0.47
5:eN:99:ASN:HB3	5:eN:102:VAL:HG22	1.95	0.47
5:eW:57:GLU:HA	5:eW:60:THR:HG22	1.96	0.47
5:ev:99:ASN:HB3	5:ev:102:VAL:HG22	1.95	0.47
5:fE:131:ILE:HD13	5:fE:140:ILE:HD11	1.96	0.47
5:fM:73:GLU:O	5:fM:77:LEU:HG	2.13	0.47
5:fh:99:ASN:HB3	5:fh:102:VAL:HG22	1.95	0.47
5:fj:99:ASN:HB3	5:fj:102:VAL:HG22	1.95	0.47
5:fn:99:ASN:HB3	5:fn:102:VAL:HG22	1.95	0.47
5:gB:99:ASN:HB3	5:gB:102:VAL:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:77:VAL:HG11	1:AE:305:LEU:HD13	1.95	0.47
1:Ah:66:THR:HG22	2:CE:52:CYS:SG	2.54	0.47
1:At:161:MET:HG3	4:Cx:31:LEU:HD21	1.95	0.47
1:Ba:78:ARG:O	1:Ba:154:ASN:ND2	2.34	0.47
2:Bk:140:ASN:HD21	2:Bk:144:GLU:HB2	1.79	0.47
2:Br:153:LYS:O	2:Br:181:ARG:NH2	2.47	0.47
2:Br:183:ILE:N	4:Co:188:ALA:O	2.40	0.47
2:CP:77:PHE:HB2	4:DA:138:LYS:HE2	1.96	0.47
2:CY:23:LYS:N	2:CY:67:TYR:OH	2.46	0.47
2:Cf:156:ASN:ND2	2:Cf:180:ASN:OD1	2.47	0.47
4:Ck:137:VAL:HG12	4:Ck:138:LYS:HG3	1.95	0.47
4:Cl:43:VAL:HG11	4:Cl:170:LYS:HD3	1.95	0.47
4:DB:78:GLN:HE22	4:DB:89:TYR:HB2	1.78	0.47
1:Ep:75:GLU:CD	2:LJ:33:SER:H	2.21	0.47
1:FK:87:LYS:NZ	2:Gj:53:THR:O	2.31	0.47
1:FU:164:GLN:OE1	1:FU:310:THR:N	2.43	0.47
1:Fu:259:ILE:HB	1:Fu:314:VAL:HB	1.95	0.47
1:GD:288:ASP:OD1	1:GD:289:SER:N	2.43	0.47
2:HB:125:LYS:NZ	2:HB:169:ASP:OD1	2.39	0.47
2:HR:100:ASP:HB3	2:HR:109:THR:HB	1.96	0.47
4:Hi:65:LEU:HD12	4:Hi:92:HIS:CE1	2.49	0.47
1:Jg:174:LYS:O	1:Jg:212:LYS:NZ	2.47	0.47
1:Jq:24:ILE:HG12	1:Jq:131:ASN:ND2	2.28	0.47
1:KC:152:LEU:HD21	2:La:105:SER:HA	1.95	0.47
1:KO:55:ALA:HB2	2:Ll:51:VAL:HB	1.95	0.47
1:KU:45:LYS:HG2	1:KU:78:ARG:HB2	1.96	0.47
1:Kh:84:LEU:HD13	1:Kk:57:PRO:HB2	1.96	0.47
1:Kj:259:ILE:HB	1:Kj:314:VAL:HB	1.95	0.47
1:Kt:196:GLU:HB3	1:Kt:265:ASN:HD22	1.79	0.47
1:Ku:79:LEU:HD11	1:Ku:305:LEU:HB2	1.96	0.47
1:Kv:194:GLY:HA3	4:Ml:36:ASN:OD1	2.13	0.47
2:LQ:74:LYS:HE2	2:LQ:89:GLY:HA3	1.96	0.47
2:LV:167:THR:HB	2:LV:170:LEU:HB3	1.96	0.47
2:La:167:THR:HG22	2:La:168:GLU:H	1.79	0.47
2:Lq:75:LEU:HB3	2:Lq:84:LEU:HD11	1.96	0.47
4:MS:73:VAL:HG21	4:MS:117:ILE:HD13	1.96	0.47
4:Mh:78:GLN:HE22	4:Mh:89:TYR:HB2	1.79	0.47
1:Of:59:THR:O	4:RF:61:ASN:ND2	2.47	0.47
1:PA:129:LEU:HD11	1:PA:139:VAL:HG13	1.96	0.47
1:PJ:159:LEU:HD12	1:PJ:260:LEU:HD13	1.96	0.47
1:PL:158:LEU:HB3	1:PL:260:LEU:HD21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pa:140:SER:HB2	1:Pa:148:GLN:HG2	1.96	0.47
1:Pk:194:GLY:HA3	4:Ra:36:ASN:OD1	2.14	0.47
1:Pl:169:VAL:HB	1:Pl:316:ILE:HA	1.96	0.47
1:Pm:57:PRO:HB2	1:Pq:84:LEU:HD13	1.96	0.47
1:Pr:286:ASP:HB2	1:Pr:294:HIS:HB2	1.96	0.47
2:Qz:125:LYS:HD2	2:Qz:169:ASP:HA	1.95	0.47
4:RJ:19:GLU:OE1	4:RJ:27:HIS:NE2	2.47	0.47
4:RZ:149:LEU:HD13	4:RZ:181:VAL:HG21	1.96	0.47
1:TV:86:TYR:OH	1:Tb:55:ALA:O	2.29	0.47
1:UA:59:THR:O	4:WJ:61:ASN:ND2	2.46	0.47
1:UC:152:LEU:HD21	2:VS:105:SER:HA	1.96	0.47
1:UJ:158:LEU:HB3	1:UJ:260:LEU:HD21	1.97	0.47
1:UJ:174:LYS:O	1:UJ:212:LYS:NZ	2.46	0.47
1:UP:288:ASP:OD1	1:UP:289:SER:N	2.41	0.47
1:UR:152:LEU:HD21	2:Vf:105:SER:HA	1.95	0.47
1:Ul:16:ILE:HD11	1:Ul:120:LYS:HE3	1.95	0.47
2:Vj:167:THR:HG22	2:Vj:168:GLU:H	1.78	0.47
4:Vw:141:LEU:HD11	4:Vw:165:ALA:HB2	1.95	0.47
4:WL:107:ASP:HB3	4:WL:116:THR:HB	1.95	0.47
6:YG:261:SER:O	6:YG:265:ASN:ND2	2.48	0.47
6:YH:305:GLU:O	6:YH:309:ARG:HG3	2.14	0.47
6:YI:305:GLU:O	6:YI:309:ARG:HG3	2.14	0.47
5:YK:60:THR:HG21	5:YY:146:GLU:HB3	1.96	0.47
5:Ye:73:GLU:OE1	5:Ye:74:LYS:NZ	2.37	0.47
5:Yn:122:VAL:HG11	5:Yn:151:LEU:HD13	1.96	0.47
5:ZU:55:ILE:O	5:ZU:59:ILE:HG12	2.13	0.47
5:Zb:103:LEU:HD12	5:Zb:113:ILE:HG23	1.94	0.47
5:Zo:131:ILE:HD13	5:Zo:140:ILE:HD11	1.96	0.47
5:Zw:73:GLU:O	5:Zw:77:LEU:HG	2.14	0.47
5:aR:99:ASN:HB3	5:aR:102:VAL:HG22	1.95	0.47
5:aY:131:ILE:HD13	5:aY:140:ILE:HD11	1.96	0.47
5:ae:111:LYS:HZ2	5:ah:74:LYS:HE3	1.79	0.47
5:af:75:GLN:NE2	5:af:79:GLU:OE1	2.45	0.47
5:bC:86:ILE:HD11	5:bC:118:ARG:HE	1.79	0.47
5:bM:73:GLU:O	5:bM:77:LEU:HG	2.14	0.47
5:bR:99:ASN:HB3	5:bR:102:VAL:HG22	1.95	0.47
5:bX:99:ASN:HB3	5:bX:102:VAL:HG22	1.95	0.47
5:bq:131:ILE:HD13	5:bq:140:ILE:HD11	1.96	0.47
5:bt:99:ASN:HB3	5:bt:102:VAL:HG22	1.95	0.47
5:cP:103:LEU:HD12	5:cP:113:ILE:HG23	1.95	0.47
5:cm:131:ILE:HD13	5:cm:140:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:cq:73:GLU:O	5:cq:77:LEU:HG	2.14	0.47
5:dB:74:LYS:HE3	5:de:111:LYS:HZ2	1.79	0.47
5:dH:99:ASN:HB3	5:dH:102:VAL:HG22	1.95	0.47
5:dT:99:ASN:HB3	5:dT:102:VAL:HG22	1.95	0.47
5:dY:55:ILE:O	5:dY:59:ILE:HG12	2.13	0.47
5:dl:99:ASN:HB3	5:dl:102:VAL:HG22	1.95	0.47
5:dq:147:ILE:HG13	5:eY:55:ILE:HG23	1.96	0.47
5:dt:99:ASN:HB3	5:dt:102:VAL:HG22	1.95	0.47
5:eF:103:LEU:HD12	5:eF:113:ILE:HG23	1.95	0.47
5:eI:73:GLU:O	5:eI:77:LEU:HG	2.14	0.47
5:eP:99:ASN:HB3	5:eP:102:VAL:HG22	1.95	0.47
5:eS:143:ILE:HG22	5:eS:143:ILE:O	2.15	0.47
5:eX:99:ASN:HB3	5:eX:102:VAL:HG22	1.95	0.47
5:en:103:LEU:HD12	5:en:113:ILE:HG23	1.94	0.47
5:fI:86:ILE:HD11	5:fI:118:ARG:HE	1.79	0.47
5:fZ:75:GLN:NE2	5:fZ:79:GLU:OE1	2.44	0.47
5:fd:99:ASN:HB3	5:fd:102:VAL:HG22	1.95	0.47
5:fm:73:GLU:O	5:fm:77:LEU:HG	2.14	0.47
1:AC:174:LYS:O	1:AC:212:LYS:NZ	2.47	0.47
1:AM:54:ASN:HA	2:Bm:42:ASN:HD22	1.78	0.47
1:AT:49:TRP:CZ3	1:AT:74:SER:HB3	2.49	0.47
1:Ak:49:TRP:CE3	1:Ak:74:SER:HB3	2.50	0.47
1:Az:47:VAL:HG22	1:Az:76:VAL:HG22	1.96	0.47
1:BH:45:LYS:HE2	1:BH:78:ARG:HD3	1.95	0.47
1:BK:8:TYR:CD2	1:BK:93:GLN:HG3	2.48	0.47
1:BW:140:SER:HB2	1:BW:148:GLN:HG2	1.95	0.47
2:CG:76:SER:HB3	2:CG:87:GLU:HG2	1.97	0.47
2:CK:166:LEU:HB2	2:CK:170:LEU:HD23	1.96	0.47
2:Cf:181:ARG:NH1	2:Cg:94:LEU:HB3	2.29	0.47
4:Cz:61:ASN:ND2	1:UC:59:THR:OG1	2.47	0.47
1:Ex:87:LYS:NZ	2:Ga:53:THR:O	2.38	0.47
1:FK:152:LEU:HD21	2:Gk:105:SER:HA	1.96	0.47
1:FU:242:ASN:ND2	1:FU:245:GLU:HB2	2.29	0.47
1:Ff:159:LEU:HD12	1:Ff:260:LEU:HD13	1.96	0.47
1:Fk:205:VAL:HG12	1:Fk:259:ILE:HG23	1.96	0.47
1:Fw:80:ASN:ND2	1:Fw:153:PRO:O	2.30	0.47
2:Ga:167:THR:HG22	2:Ga:168:GLU:H	1.78	0.47
2:Gi:125:LYS:HD2	2:Gi:169:ASP:HA	1.95	0.47
2:Gi:133:PRO:HG3	2:Gi:161:SER:HA	1.96	0.47
2:Gv:76:SER:HB3	2:Gv:87:GLU:HG2	1.96	0.47
2:HC:138:ASN:HD22	2:HC:153:LYS:HG2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HW:137:LEU:HD11	2:HW:159:ALA:HB2	1.96	0.47
4:Hf:171:GLN:HB2	4:Hf:177:TYR:CE1	2.49	0.47
4:Hk:77:ILE:HG13	4:Hk:91:PRO:HB3	1.96	0.47
1:Jq:41:MET:HE3	1:Jq:82:LEU:HD12	1.95	0.47
1:KO:49:TRP:CE3	1:KO:74:SER:HB3	2.50	0.47
1:KZ:174:LYS:O	1:KZ:212:LYS:NZ	2.47	0.47
1:Kd:132:HIS:HA	1:Kd:254:LEU:HD13	1.97	0.47
1:Kl:288:ASP:OD1	1:Kl:289:SER:N	2.41	0.47
1:Kn:135:LEU:HD21	1:Kn:255:LEU:HG	1.96	0.47
1:Ko:59:THR:O	4:Me:61:ASN:ND2	2.47	0.47
1:Kt:24:ILE:HG12	1:Kt:131:ASN:ND2	2.28	0.47
1:Kw:13:VAL:HA	1:Kw:16:ILE:HG22	1.96	0.47
1:Kw:26:TYR:O	5:OG:218:TYR:OH	2.25	0.47
1:LE:78:ARG:O	1:LE:154:ASN:ND2	2.35	0.47
1:LE:205:VAL:HG12	1:LE:259:ILE:HG23	1.97	0.47
1:LF:52:PHE:CZ	1:LF:71:GLY:HA3	2.50	0.47
2:LJ:137:LEU:HD11	2:LJ:159:ALA:HB2	1.97	0.47
2:Le:125:LYS:NZ	2:Le:169:ASP:OD1	2.38	0.47
2:MJ:156:ASN:ND2	2:MJ:180:ASN:OD1	2.47	0.47
4:MU:19:GLU:OE1	4:MU:27:HIS:NE2	2.47	0.47
4:MU:149:LEU:HD13	4:MU:181:VAL:HG21	1.96	0.47
4:Mc:65:LEU:HD12	4:Mc:92:HIS:NE2	2.28	0.47
4:Mk:149:LEU:HD13	4:Mk:181:VAL:HG21	1.96	0.47
1:OV:174:LYS:O	1:OV:212:LYS:NZ	2.47	0.47
1:Ob:185:GLU:OE2	1:TY:215:LYS:HE3	2.15	0.47
1:Of:54:ASN:HA	2:QF:42:ASN:HD22	1.78	0.47
1:Os:152:LEU:HD21	4:RL:112:SER:HA	1.96	0.47
1:Ov:28:TRP:O	1:Ov:262:TYR:OH	2.28	0.47
1:PG:152:LEU:HD21	2:QZ:105:SER:HA	1.96	0.47
1:PH:161:MET:HE3	1:PH:306:ALA:HB3	1.96	0.47
1:PM:272:LYS:N	1:PM:303:GLY:O	2.38	0.47
1:PQ:49:TRP:CZ3	1:PQ:74:SER:HB3	2.49	0.47
1:PS:259:ILE:HB	1:PS:314:VAL:HB	1.97	0.47
1:Pd:55:ALA:O	1:Pg:86:TYR:OH	2.19	0.47
1:Po:147:ASN:H	4:Ra:88:HIS:HD2	1.63	0.47
1:Pp:16:ILE:HD12	1:Pp:116:ALA:HB1	1.97	0.47
1:Pr:87:LYS:HD3	1:Pr:294:HIS:HD2	1.80	0.47
2:Qg:76:SER:HB3	2:Qg:87:GLU:HG2	1.95	0.47
2:Qh:153:LYS:O	2:Qh:181:ARG:NH1	2.47	0.47
2:Qn:63:PRO:HB2	2:Qn:85:GLU:HG2	1.97	0.47
3:RC:171:ARG:HG2	3:RC:190:ILE:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RX:141:LEU:HD11	4:RX:165:ALA:HB2	1.96	0.47
4:Rb:161:ILE:HA	4:Rb:186:ASN:HA	1.96	0.47
1:TR:66:THR:HG22	2:Us:52:CYS:SG	2.55	0.47
1:Ua:196:GLU:HB3	1:Ua:265:ASN:HD22	1.79	0.47
1:Ue:45:LYS:HE2	1:Ue:78:ARG:HD3	1.96	0.47
1:Ug:49:TRP:CZ3	1:Ug:74:SER:HB3	2.50	0.47
1:Ui:39:LEU:O	1:Ui:274:SER:OG	2.26	0.47
1:Ul:45:LYS:HE2	1:Ul:78:ARG:HD3	1.96	0.47
1:Ul:91:LEU:HD21	1:Ul:112:LEU:HD13	1.96	0.47
2:VN:180:ASN:O	4:WE:186:ASN:ND2	2.47	0.47
3:Vr:171:ARG:HG2	3:Vr:190:ILE:HG22	1.96	0.47
4:WM:141:LEU:HD11	4:WM:165:ALA:HB2	1.96	0.47
6:Xz:85:THR:HA	6:Xz:102:ILE:HG12	1.96	0.47
6:YG:85:THR:HA	6:YG:102:ILE:HG12	1.97	0.47
5:YL:118:ARG:O	5:YL:122:VAL:HG23	2.15	0.47
5:ZD:75:GLN:NE2	5:ZD:79:GLU:OE1	2.47	0.47
5:ZQ:103:LEU:HD12	5:ZQ:113:ILE:HG23	1.95	0.47
5:Zp:75:GLN:NE2	5:Zp:79:GLU:OE1	2.45	0.47
5:Zr:75:GLN:NE2	5:Zr:79:GLU:OE1	2.44	0.47
5:Zs:73:GLU:O	5:Zs:77:LEU:HG	2.14	0.47
5:Zw:131:ILE:HD13	5:Zw:140:ILE:HD11	1.96	0.47
5:aM:131:ILE:HD13	5:aM:140:ILE:HD11	1.97	0.47
5:aa:131:ILE:HD13	5:aa:140:ILE:HD11	1.97	0.47
5:ac:86:ILE:HD11	5:ac:118:ARG:HE	1.79	0.47
5:ai:111:LYS:HZ2	5:al:74:LYS:HE3	1.80	0.47
5:ap:99:ASN:HB3	5:ap:102:VAL:HG22	1.95	0.47
5:bS:131:ILE:HD13	5:bS:140:ILE:HD11	1.97	0.47
5:bV:75:GLN:NE2	5:bV:79:GLU:OE1	2.45	0.47
5:bW:55:ILE:HG21	5:cC:116:ALA:HB2	1.96	0.47
5:bZ:75:GLN:NE2	5:bZ:79:GLU:OE1	2.45	0.47
5:bf:75:GLN:NE2	5:bf:79:GLU:OE1	2.44	0.47
5:bj:99:ASN:HB3	5:bj:102:VAL:HG22	1.95	0.47
5:bm:131:ILE:HD13	5:bm:140:ILE:HD11	1.96	0.47
5:bs:62:GLU:OE1	5:cY:97:HIS:NE2	2.47	0.47
5:bs:73:GLU:O	5:bs:77:LEU:HG	2.14	0.47
5:bs:131:ILE:HD13	5:bs:140:ILE:HD11	1.96	0.47
5:bu:62:GLU:OE1	5:ca:97:HIS:NE2	2.47	0.47
5:bw:55:ILE:HG21	5:cc:116:ALA:HB2	1.95	0.47
5:cG:131:ILE:HD13	5:cG:140:ILE:HD11	1.96	0.47
5:cZ:99:ASN:HB3	5:cZ:102:VAL:HG22	1.95	0.47
5:dM:131:ILE:HD13	5:dM:140:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:da:73:GLU:O	5:da:77:LEU:HG	2.14	0.47
5:de:86:ILE:HD11	5:de:118:ARG:HE	1.79	0.47
5:dh:99:ASN:HB3	5:dh:102:VAL:HG22	1.95	0.47
5:du:55:ILE:HD12	5:ec:136:LYS:HZ3	1.79	0.47
5:eQ:57:GLU:HA	5:eQ:60:THR:HG22	1.96	0.47
5:ee:73:GLU:O	5:ee:77:LEU:HG	2.13	0.47
5:ee:116:ALA:HB1	5:fK:55:ILE:HD13	1.95	0.47
5:eq:57:GLU:HA	5:eq:60:THR:HG22	1.95	0.47
5:ew:98:PHE:HB3	5:ew:117:GLN:HE22	1.78	0.47
5:fE:73:GLU:O	5:fE:77:LEU:HG	2.14	0.47
1:AH:77:VAL:HG11	1:AH:305:LEU:HD13	1.96	0.47
1:Aa:174:LYS:O	1:Aa:212:LYS:NZ	2.48	0.47
1:BM:178:ASP:N	1:BM:178:ASP:OD1	2.47	0.47
1:Bc:62:ASN:ND2	2:By:102:ASP:HB2	2.30	0.47
2:Bf:137:LEU:HD11	2:Bf:159:ALA:HB2	1.97	0.47
2:CK:23:LYS:HG3	2:CK:24:ASN:H	1.79	0.47
2:CM:75:LEU:HB3	2:CM:84:LEU:HD11	1.96	0.47
1:FP:87:LYS:NZ	2:Gn:53:THR:O	2.30	0.47
1:FP:174:LYS:O	1:FP:212:LYS:NZ	2.48	0.47
1:Fk:174:LYS:O	1:Fk:212:LYS:NZ	2.47	0.47
1:Fq:86:TYR:OH	1:GA:55:ALA:O	2.23	0.47
1:Fq:158:LEU:HB3	1:Fq:260:LEU:HD21	1.96	0.47
1:Fw:194:GLY:HA3	2:HL:36:ILE:HG21	1.97	0.47
1:GA:135:LEU:HD21	1:GA:255:LEU:HG	1.97	0.47
1:GH:196:GLU:HB3	1:GH:265:ASN:HD22	1.79	0.47
1:GN:107:ASP:OD2	1:GN:110:ASN:ND2	2.38	0.47
2:Gq:77:PHE:HD2	4:Hj:138:LYS:HG3	1.79	0.47
2:Gz:23:LYS:HG3	2:Gz:24:ASN:H	1.79	0.47
2:HV:134:GLY:HA2	4:Hx:77:ILE:HD13	1.96	0.47
4:Hr:14:LYS:HG3	4:Hs:14:LYS:HG3	1.95	0.47
4:Ht:142:ILE:HD11	4:Ht:152:VAL:HG23	1.97	0.47
5:Ir:191:ASP:OD1	5:Zp:96:ASN:CG	2.58	0.47
1:KA:57:PRO:HB2	1:Om:84:LEU:HB3	1.97	0.47
1:KV:161:MET:HE3	1:KV:306:ALA:HB3	1.96	0.47
1:KZ:205:VAL:HG12	1:KZ:259:ILE:HG23	1.95	0.47
1:LG:62:ASN:ND2	2:Lc:102:ASP:HB2	2.30	0.47
2:Li:23:LYS:N	2:Li:67:TYR:OH	2.48	0.47
2:MB:75:LEU:HD22	2:MB:84:LEU:HD13	1.96	0.47
2:MC:125:LYS:HD2	2:MC:169:ASP:HA	1.95	0.47
4:Mi:142:ILE:HD11	4:Mi:152:VAL:HG23	1.96	0.47
1:Of:41:MET:HE3	1:Of:82:LEU:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Oh:80:ASN:ND2	1:Oh:153:PRO:O	2.47	0.47
1:Oi:89:ARG:HH21	1:Oi:112:LEU:HD13	1.79	0.47
1:PQ:161:MET:SD	2:Qi:31:LEU:HD21	2.54	0.47
1:PY:259:ILE:HB	1:PY:314:VAL:HB	1.95	0.47
1:Pa:45:LYS:HE2	1:Pa:78:ARG:HD3	1.96	0.47
1:Pa:48:LYS:HG3	2:Qp:32:LEU:HD22	1.96	0.47
1:Pi:196:GLU:HB3	1:Pi:265:ASN:HD22	1.79	0.47
1:Pk:59:THR:O	2:Qw:61:ASN:ND2	2.47	0.47
1:Pt:205:VAL:HG12	1:Pt:259:ILE:HG23	1.97	0.47
1:Pt:261:ILE:HD12	1:Pt:312:LEU:HD23	1.96	0.47
1:Pu:80:ASN:ND2	1:Pu:154:ASN:HB2	2.29	0.47
2:QD:140:ASN:HD21	2:QD:144:GLU:HB2	1.79	0.47
2:QK:153:LYS:O	2:QK:181:ARG:NH2	2.47	0.47
2:QZ:76:SER:HB3	2:QZ:87:GLU:HG2	1.96	0.47
2:Qg:138:ASN:HD22	2:Qg:153:LYS:HG2	1.79	0.47
4:RZ:26:GLN:NE2	4:RZ:28:ASP:OD1	2.47	0.47
1:Ta:13:VAL:HG11	1:Ta:281:PRO:HG2	1.95	0.47
1:Tn:242:ASN:ND2	1:Tn:245:GLU:HB2	2.30	0.47
1:Tp:66:THR:HG22	2:VM:52:CYS:SG	2.54	0.47
1:Tv:152:LEU:HD21	2:VO:105:SER:HA	1.96	0.47
1:UE:196:GLU:OE1	1:UE:265:ASN:ND2	2.45	0.47
1:UR:107:ASP:OD2	1:UR:110:ASN:ND2	2.42	0.47
1:UX:85:GLN:NE2	1:UX:298:ASP:OD1	2.46	0.47
1:Ug:87:LYS:HD3	1:Ug:294:HIS:HD2	1.80	0.47
1:Ui:205:VAL:HG12	1:Ui:259:ILE:HG23	1.97	0.47
1:Um:135:LEU:HD21	1:Um:255:LEU:HG	1.97	0.47
2:Un:137:LEU:HD11	2:Un:159:ALA:HB2	1.97	0.47
2:Uu:74:LYS:HE2	2:Uu:89:GLY:HA3	1.96	0.47
2:Vc:63:PRO:HB2	2:Vc:85:GLU:HG2	1.97	0.47
4:WB:65:LEU:HD12	4:WB:92:HIS:CE1	2.49	0.47
4:WG:65:LEU:HD12	4:WG:92:HIS:NE2	2.28	0.47
4:WH:64:PHE:CZ	4:WH:108:ILE:HD11	2.50	0.47
4:WM:142:ILE:HD11	4:WM:152:VAL:HG23	1.96	0.47
6:Xx:305:GLU:O	6:Xx:309:ARG:HG3	2.14	0.47
6:YA:201:GLN:NE2	6:YA:253:SER:HA	2.29	0.47
5:YK:82:ARG:O	5:YK:86:ILE:HG12	2.14	0.47
5:Yb:72:ILE:O	5:Yb:76:LEU:HG	2.14	0.47
5:Yc:118:ARG:O	5:Yc:122:VAL:HG23	2.14	0.47
5:Yg:144:ASP:HA	5:Yg:148:LEU:HB2	1.95	0.47
5:Yi:75:GLN:NE2	5:Yi:79:GLU:OE1	2.44	0.47
5:Yy:73:GLU:O	5:Yy:77:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZC:75:GLN:O	5:ZC:79:GLU:HG2	2.14	0.47
5:ZI:130:GLN:HG3	5:ZJ:154:LEU:HD13	1.95	0.47
5:ZL:131:ILE:HD13	5:ZL:140:ILE:HD11	1.96	0.47
5:ZW:79:GLU:O	5:ZW:83:ILE:HG12	2.14	0.47
5:ZX:99:ASN:HB3	5:ZX:102:VAL:HG22	1.95	0.47
5:am:131:ILE:HD13	5:am:140:ILE:HD11	1.97	0.47
5:ar:103:LEU:HD12	5:ar:113:ILE:HG23	1.95	0.47
5:bG:86:ILE:HD11	5:bG:118:ARG:HE	1.79	0.47
5:bR:103:LEU:HD12	5:bR:113:ILE:HG23	1.94	0.47
5:bd:75:GLN:NE2	5:bd:79:GLU:OE1	2.44	0.47
5:bg:131:ILE:HD13	5:bg:140:ILE:HD11	1.97	0.47
5:bo:131:ILE:HD13	5:bo:140:ILE:HD11	1.97	0.47
5:bw:62:GLU:OE1	5:cc:97:HIS:NE2	2.47	0.47
5:cB:99:ASN:HB3	5:cB:102:VAL:HG22	1.95	0.47
5:cE:111:LYS:HZ2	5:cH:74:LYS:HE3	1.79	0.47
5:cU:73:GLU:O	5:cU:77:LEU:HG	2.14	0.47
5:cg:111:LYS:HZ2	5:cj:74:LYS:HE3	1.79	0.47
5:cq:98:PHE:HB3	5:cq:117:GLN:HE22	1.79	0.47
5:dC:73:GLU:O	5:dC:77:LEU:HG	2.14	0.47
5:dG:131:ILE:HD13	5:dG:140:ILE:HD11	1.97	0.47
5:dc:55:ILE:O	5:dc:59:ILE:HG12	2.13	0.47
5:de:55:ILE:O	5:de:59:ILE:HG12	2.13	0.47
5:ds:57:GLU:HA	5:ds:60:THR:HG22	1.96	0.47
5:dz:122:VAL:HG11	5:dz:151:LEU:HD13	1.95	0.47
5:eE:111:LYS:HZ2	5:eH:74:LYS:HE3	1.78	0.47
5:eG:57:GLU:HA	5:eG:60:THR:HG22	1.96	0.47
5:eG:73:GLU:O	5:eG:77:LEU:HG	2.13	0.47
5:eo:116:ALA:HB1	5:fU:55:ILE:HD13	1.97	0.47
5:ep:99:ASN:HB3	5:ep:102:VAL:HG22	1.95	0.47
5:ey:86:ILE:HD11	5:ey:118:ARG:HE	1.78	0.47
5:fD:99:ASN:HB3	5:fD:102:VAL:HG22	1.95	0.47
5:fG:131:ILE:HD13	5:fG:140:ILE:HD11	1.96	0.47
5:fT:74:LYS:HE3	5:fU:111:LYS:HZ2	1.78	0.47
5:fV:99:ASN:HB3	5:fV:102:VAL:HG22	1.95	0.47
1:AI:31:PRO:HG3	5:DS:218:TYR:CG	2.50	0.47
1:AQ:215:LYS:HE3	1:TQ:185:GLU:OE2	2.15	0.47
1:AV:152:LEU:HD21	2:Bv:105:SER:HA	1.96	0.47
1:Av:174:LYS:O	1:Av:212:LYS:NZ	2.47	0.47
1:BE:57:PRO:HB2	1:BI:84:LEU:HD13	1.96	0.47
1:BH:194:GLY:HA3	2:CW:36:ILE:HG21	1.97	0.47
1:BP:80:ASN:ND2	1:BP:153:PRO:O	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BT:87:LYS:NZ	2:Cd:53:THR:O	2.36	0.47
1:BZ:43:TYR:HE2	1:BZ:45:LYS:HE2	1.79	0.47
1:Bb:52:PHE:CZ	1:Bb:71:GLY:HA3	2.50	0.47
1:Bc:165:ILE:HD13	1:Bc:191:LEU:HD23	1.97	0.47
2:Bl:153:LYS:HG3	2:Bl:154:SER:H	1.80	0.47
2:CB:77:PHE:HD2	4:Cu:138:LYS:HG3	1.79	0.47
2:CO:153:LYS:O	2:CO:181:ARG:NH1	2.47	0.47
2:CQ:23:LYS:N	2:CQ:67:TYR:OH	2.47	0.47
2:Cc:32:LEU:HB2	1:Fq:307:THR:HG22	1.96	0.47
4:Cz:37:GLU:HG3	4:Cz:39:ARG:H	1.80	0.47
1:FA:261:ILE:HD12	1:FA:312:LEU:HD23	1.96	0.47
1:Ff:45:LYS:HG2	1:Ff:78:ARG:HB2	1.96	0.47
1:Fj:49:TRP:CE3	1:Kb:113:LEU:HD11	2.49	0.47
1:Fn:48:LYS:HD2	4:Ho:32:LEU:HD22	1.97	0.47
1:Fu:175:ASP:HA	1:Fu:212:LYS:NZ	2.30	0.47
1:Fw:48:LYS:HG3	2:HL:32:LEU:HD22	1.96	0.47
1:GB:178:ASP:OD1	1:GB:178:ASP:N	2.47	0.47
1:GJ:152:LEU:HD21	2:HS:105:SER:HA	1.96	0.47
2:Gl:167:THR:HG22	2:Gl:168:GLU:H	1.79	0.47
2:HA:56:LYS:NZ	2:HB:55:SER:O	2.47	0.47
4:Hs:78:GLN:HE22	4:Hs:89:TYR:HB2	1.79	0.47
1:Jf:286:ASP:HB2	1:Jf:294:HIS:HB2	1.96	0.47
1:Jg:79:LEU:HD11	1:Jg:305:LEU:HB2	1.95	0.47
1:Jw:13:VAL:HG11	1:Jw:281:PRO:HG2	1.95	0.47
1:KN:286:ASP:HB2	1:KN:294:HIS:HB2	1.97	0.47
1:KY:59:THR:OG1	4:RS:61:ASN:ND2	2.47	0.47
1:Kd:259:ILE:HB	1:Kd:314:VAL:HB	1.97	0.47
1:Kf:158:LEU:HB3	1:Kf:260:LEU:HD21	1.96	0.47
1:Ki:57:PRO:HB2	1:Km:84:LEU:HD13	1.96	0.47
1:Kl:140:SER:HB2	1:Kl:148:GLN:HG2	1.96	0.47
1:Kn:107:ASP:OD2	1:Kn:110:ASN:ND2	2.42	0.47
1:LA:45:LYS:HE2	1:LA:78:ARG:HD3	1.96	0.47
1:LC:286:ASP:HB2	1:LC:294:HIS:HB2	1.97	0.47
2:Lu:23:LYS:N	2:Lu:67:TYR:OH	2.47	0.47
2:MG:32:LEU:HB2	1:PU:307:THR:HG22	1.96	0.47
2:MG:100:ASP:HB3	2:MG:109:THR:HB	1.96	0.47
4:MX:65:LEU:HD12	4:MX:92:HIS:CE1	2.49	0.47
4:Ma:137:VAL:HG12	4:Ma:138:LYS:HG3	1.96	0.47
4:Mf:149:LEU:HD13	4:Mf:181:VAL:HG21	1.96	0.47
4:Mi:141:LEU:HD11	4:Mi:165:ALA:HB2	1.96	0.47
1:OT:163:GLU:OE1	1:OT:308:ARG:NH1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Oa:65:ASN:ND2	2:QG:57:ASP:O	2.46	0.47
1:PA:259:ILE:HB	1:PA:314:VAL:HB	1.96	0.47
1:PD:218:ALA:HA	1:PD:224:ALA:HA	1.96	0.47
1:PM:161:MET:HG3	4:RQ:31:LEU:HD21	1.95	0.47
1:PQ:57:PRO:HB2	1:Ph:84:LEU:HB3	1.97	0.47
1:PR:84:LEU:HD13	1:PS:57:PRO:HB2	1.97	0.47
1:Pd:59:THR:O	4:RT:61:ASN:ND2	2.48	0.47
1:Pu:49:TRP:CZ3	1:Pu:74:SER:HB3	2.50	0.47
2:Qx:75:LEU:HD22	2:Qx:84:LEU:HD13	1.97	0.47
4:RH:73:VAL:HG21	4:RH:117:ILE:HD13	1.96	0.47
1:TX:89:ARG:HH21	1:TX:112:LEU:HD13	1.79	0.47
1:Th:152:LEU:HD21	4:WA:112:SER:HA	1.97	0.47
1:UB:286:ASP:HB2	1:UB:294:HIS:HB2	1.95	0.47
1:UC:16:ILE:HD11	1:UC:120:LYS:HE3	1.95	0.47
1:UC:107:ASP:OD2	1:UC:110:ASN:ND2	2.31	0.47
1:UF:80:ASN:ND2	1:UF:153:PRO:O	2.47	0.47
1:UG:205:VAL:HG12	1:UG:259:ILE:HG23	1.97	0.47
1:UO:87:LYS:NZ	2:Ve:53:THR:O	2.38	0.47
1:UY:196:GLU:HB3	1:UY:265:ASN:HD22	1.79	0.47
1:Ue:161:MET:HG3	2:Vm:31:LEU:HD11	1.97	0.47
1:Uh:43:TYR:HE2	1:Uh:45:LYS:HE2	1.79	0.47
1:Ui:135:LEU:HD21	1:Ui:255:LEU:HG	1.96	0.47
1:Uj:49:TRP:CZ3	1:Uj:74:SER:HB3	2.50	0.47
1:Uk:62:ASN:ND2	2:VG:102:ASP:HB2	2.30	0.47
1:Ul:109:ASN:O	2:VE:24:ASN:ND2	2.48	0.47
2:VW:153:LYS:O	2:VW:181:ARG:NH1	2.48	0.47
2:VY:23:LYS:N	2:VY:67:TYR:OH	2.47	0.47
4:Vs:137:VAL:HG12	4:Vs:138:LYS:HG3	1.96	0.47
4:WF:140:LYS:HD3	4:WF:161:ILE:HD13	1.96	0.47
6:YB:305:GLU:OE1	6:YB:308:THR:N	2.42	0.47
6:YE:305:GLU:O	6:YE:309:ARG:HG3	2.14	0.47
6:YH:35:ASP:OD2	6:YH:329:TYR:OH	2.20	0.47
5:YU:75:GLN:O	5:YU:79:GLU:HG2	2.15	0.47
5:YX:73:GLU:O	5:YX:77:LEU:HG	2.14	0.47
5:YY:133:ALA:HB1	5:YZ:153:SER:HB2	1.97	0.47
5:Yh:55:ILE:O	5:Yh:59:ILE:HG12	2.14	0.47
5:Yj:112:ASP:OD1	5:Yj:115:GLN:NE2	2.46	0.47
5:Yk:113:ILE:O	5:Yk:117:GLN:HG2	2.14	0.47
5:Yp:103:LEU:HD12	5:Yp:113:ILE:HG23	1.97	0.47
5:Yp:131:ILE:HD13	5:Yp:140:ILE:HD11	1.95	0.47
5:Yr:128:ILE:HA	5:Yr:131:ILE:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yz:122:VAL:HG11	5:Yz:151:LEU:HD13	1.97	0.47
5:ZM:75:GLN:O	5:ZM:79:GLU:HG2	2.14	0.47
5:ZN:122:VAL:HG11	5:ZN:151:LEU:HD13	1.97	0.47
5:Zc:79:GLU:O	5:Zc:83:ILE:HG12	2.14	0.47
5:ac:73:GLU:O	5:ac:77:LEU:HG	2.14	0.47
5:bG:131:ILE:HD13	5:bG:140:ILE:HD11	1.97	0.47
5:cR:75:GLN:NE2	5:cR:79:GLU:OE1	2.45	0.47
5:cg:55:ILE:HD13	5:dM:116:ALA:HB1	1.97	0.47
5:ck:111:LYS:HZ2	5:cn:74:LYS:HE3	1.79	0.47
5:dA:73:GLU:O	5:dA:77:LEU:HG	2.14	0.47
5:dK:73:GLU:O	5:dK:77:LEU:HG	2.14	0.47
5:dQ:73:GLU:O	5:dQ:77:LEU:HG	2.14	0.47
5:dY:73:GLU:O	5:dY:77:LEU:HG	2.14	0.47
5:di:56:ASN:HB2	5:eQ:146:GLU:N	2.29	0.47
5:eI:56:ASN:HB2	5:eq:146:GLU:N	2.29	0.47
5:eI:57:GLU:HA	5:eI:60:THR:HG22	1.96	0.47
5:fC:98:PHE:HB3	5:fC:117:GLN:HE22	1.79	0.47
5:gA:131:ILE:HD13	5:gA:140:ILE:HD11	1.97	0.47
1:AD:261:ILE:HD12	1:AD:312:LEU:HD23	1.97	0.47
1:AJ:66:THR:HG22	2:Bk:52:CYS:SG	2.55	0.47
1:AM:150:ARG:NH2	2:Bo:106:GLY:O	2.48	0.47
1:Af:286:ASP:HB2	1:Af:294:HIS:HB2	1.97	0.47
1:Ag:239:LYS:NZ	1:Ag:245:GLU:O	2.42	0.47
1:Aw:45:LYS:NZ	2:VS:28:ASP:OD2	2.43	0.47
1:Ay:48:LYS:HD2	4:Cz:32:LEU:HD22	1.97	0.47
1:Ay:84:LEU:HD13	1:Az:57:PRO:HB2	1.97	0.47
1:BA:110:ASN:ND2	1:BN:62:ASN:OD1	2.48	0.47
1:BD:87:LYS:NZ	4:DC:53:THR:O	2.34	0.47
1:BF:175:ASP:HA	1:BF:212:LYS:NZ	2.30	0.47
1:BP:196:GLU:HB3	1:BP:265:ASN:HD22	1.79	0.47
1:BX:277:MET:HA	1:BX:300:VAL:HB	1.96	0.47
1:BY:87:LYS:HD3	1:BY:294:HIS:HD2	1.80	0.47
1:Bd:91:LEU:HD21	1:Bd:112:LEU:HD13	1.96	0.47
1:Be:81:TYR:OH	1:Be:272:LYS:O	2.30	0.47
1:Be:135:LEU:HD21	1:Be:255:LEU:HG	1.97	0.47
2:Bl:167:THR:HG22	2:Bl:168:GLU:H	1.78	0.47
2:Bv:69:TYR:CZ	2:Bv:70:LYS:HE2	2.50	0.47
2:CH:167:THR:HB	2:CH:170:LEU:HB3	1.96	0.47
2:CV:148:VAL:HG21	2:CV:155:VAL:HG12	1.97	0.47
2:CZ:23:LYS:N	2:CZ:67:TYR:OH	2.48	0.47
2:Cc:76:SER:HB3	2:Cc:87:GLU:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ce:75:LEU:HD22	2:Ce:84:LEU:HD13	1.97	0.47
2:Ch:75:LEU:HD22	2:Ch:84:LEU:HD13	1.95	0.47
4:Cl:93:VAL:HG21	4:Cl:117:ILE:HD11	1.96	0.47
4:Co:73:VAL:HG21	4:Co:117:ILE:HD13	1.96	0.47
4:Cq:19:GLU:OE1	4:Cq:27:HIS:NE2	2.47	0.47
4:Ct:65:LEU:HD12	4:Ct:92:HIS:CE1	2.49	0.47
4:Cw:137:VAL:HG12	4:Cw:138:LYS:HG3	1.96	0.47
4:DD:107:ASP:HB3	4:DD:116:THR:HB	1.95	0.47
1:Ep:54:ASN:OD1	2:LJ:47:ASN:ND2	2.43	0.47
1:Er:174:LYS:O	1:Er:212:LYS:NZ	2.47	0.47
1:Ew:77:VAL:HG11	1:Ew:305:LEU:HD13	1.96	0.47
1:Ex:185:GLU:OE2	1:Ju:215:LYS:HE3	2.15	0.47
1:Ey:66:THR:HG22	2:GZ:52:CYS:SG	2.55	0.47
1:FQ:65:ASN:HB2	4:MX:59:LEU:H	1.80	0.47
1:FU:165:ILE:HD13	1:FU:191:LEU:HD23	1.97	0.47
1:FZ:218:ALA:HA	1:FZ:224:ALA:HA	1.96	0.47
1:Fb:19:GLU:HA	1:Fb:120:LYS:HD3	1.97	0.47
1:Fc:80:ASN:ND2	1:Fc:153:PRO:O	2.33	0.47
1:Fl:107:ASP:OD2	1:Fl:110:ASN:ND2	2.29	0.47
1:Fv:278:LEU:HD12	5:JF:210:TYR:CG	2.50	0.47
1:Fw:49:TRP:CZ3	1:Fw:74:SER:HB3	2.50	0.47
1:Fx:80:ASN:ND2	1:Fx:153:PRO:O	2.47	0.47
1:GF:33:GLN:NE2	1:GF:269:ILE:O	2.35	0.47
1:GF:196:GLU:HB3	1:GF:265:ASN:HD22	1.79	0.47
1:GG:165:ILE:HD13	1:GG:191:LEU:HD23	1.96	0.47
1:GM:277:MET:HA	1:GM:300:VAL:HB	1.96	0.47
1:GN:87:LYS:HD3	1:GN:294:HIS:HD2	1.80	0.47
1:GP:205:VAL:HG12	1:GP:259:ILE:HG23	1.97	0.47
1:GQ:178:ASP:OD1	1:GQ:178:ASP:N	2.47	0.47
1:GS:49:TRP:CZ3	1:GS:74:SER:HB3	2.49	0.47
1:GT:80:ASN:ND2	1:GT:153:PRO:O	2.34	0.47
2:GU:137:LEU:HD11	2:GU:159:ALA:HB2	1.97	0.47
2:GV:32:LEU:HB2	1:Jf:307:THR:HG22	1.97	0.47
2:Gg:153:LYS:O	2:Gg:181:ARG:NH2	2.47	0.47
2:HB:75:LEU:HB3	2:HB:84:LEU:HD11	1.96	0.47
2:HU:156:ASN:ND2	2:HU:180:ASN:OD1	2.47	0.47
4:Hf:19:GLU:OE1	4:Hf:27:HIS:NE2	2.47	0.47
4:Hg:25:PRO:HB2	4:Hg:27:HIS:CD2	2.50	0.47
4:Hi:165:ALA:HA	4:Hi:181:VAL:HG22	1.96	0.47
4:Hj:77:ILE:HG12	4:Hj:91:PRO:HB3	1.96	0.47
4:Hl:77:ILE:HG12	4:Hl:91:PRO:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Hu:6:GLN:HA	4:Hu:9:LYS:HD2	1.97	0.47
4:Hx:161:ILE:HA	4:Hx:186:ASN:HA	1.96	0.47
1:Jg:87:LYS:NZ	2:LK:53:THR:O	2.39	0.47
1:Jh:66:THR:HG22	4:MS:52:ARG:HB3	1.96	0.47
1:Jh:261:ILE:HD12	1:Jh:312:LEU:HD23	1.97	0.47
1:Jn:31:PRO:HG3	5:Mx:218:TYR:CG	2.50	0.47
1:Jq:59:THR:O	4:MQ:61:ASN:ND2	2.47	0.47
1:Ju:87:LYS:NZ	2:LV:53:THR:O	2.38	0.47
1:Ju:140:SER:HB2	1:Ju:148:GLN:HG2	1.97	0.47
1:KO:159:LEU:HD12	1:KO:260:LEU:HD13	1.96	0.47
1:KS:307:THR:HG22	2:Lp:32:LEU:HB2	1.95	0.47
1:KV:3:LEU:HD23	2:Lk:19:GLN:HG3	1.96	0.47
1:Kb:80:ASN:ND2	1:Kb:153:PRO:O	2.47	0.47
1:Kc:205:VAL:HG12	1:Kc:259:ILE:HG23	1.97	0.47
1:Ke:307:THR:HG22	2:Lq:32:LEU:HB2	1.97	0.47
1:Km:80:ASN:ND2	1:Km:153:PRO:O	2.47	0.47
1:Kx:49:TRP:CZ3	1:Kx:74:SER:HB3	2.50	0.47
1:Kx:57:PRO:HB2	1:LB:84:LEU:HD13	1.96	0.47
1:Kx:87:LYS:NZ	2:MH:53:THR:O	2.36	0.47
1:Ky:152:LEU:HD21	2:MH:105:SER:HA	1.96	0.47
1:LC:49:TRP:CZ3	1:LC:74:SER:HB3	2.50	0.47
1:LD:43:TYR:HE2	1:LD:45:LYS:HE2	1.79	0.47
2:Ll:167:THR:HB	2:Ll:170:LEU:HB3	1.97	0.47
2:Ly:63:PRO:HB2	2:Ly:85:GLU:HG2	1.97	0.47
4:MQ:141:LEU:HD11	4:MQ:165:ALA:HB2	1.96	0.47
4:MU:171:GLN:HB2	4:MU:177:TYR:CE1	2.49	0.47
4:MW:78:GLN:HE22	4:MW:89:TYR:HB2	1.80	0.47
4:MX:165:ALA:HA	4:MX:181:VAL:HG22	1.96	0.47
4:MY:144:ASN:OD1	4:MY:148:ALA:N	2.43	0.47
4:Md:64:PHE:CZ	4:Md:108:ILE:HD11	2.50	0.47
4:Mk:51:THR:HG21	4:Mk:180:LYS:HE3	1.95	0.47
1:OT:169:VAL:HB	1:OT:316:ILE:HA	1.97	0.47
1:OU:286:ASP:HB2	1:OU:294:HIS:HB2	1.96	0.47
1:Ob:31:PRO:HG3	5:Rl:218:TYR:CG	2.50	0.47
1:Oc:77:VAL:HG11	1:Oc:305:LEU:HD13	1.97	0.47
1:Oq:225:SER:HB3	1:Pw:224:ALA:HB3	1.95	0.47
1:PA:66:THR:HG22	2:QX:52:CYS:SG	2.54	0.47
1:PL:78:ARG:O	1:PL:154:ASN:ND2	2.32	0.47
1:PP:107:ASP:OD2	1:PP:110:ASN:ND2	2.29	0.47
1:PQ:80:ASN:ND2	1:PQ:153:PRO:O	2.47	0.47
1:PS:132:HIS:HA	1:PS:254:LEU:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PT:49:TRP:CZ3	1:PT:74:SER:HB3	2.49	0.47
1:PV:194:GLY:HA3	4:RW:36:ASN:OD1	2.14	0.47
1:PW:84:LEU:HD13	1:PZ:57:PRO:HB2	1.96	0.47
1:Pa:194:GLY:HA3	2:Qp:36:ILE:HG21	1.97	0.47
1:Pl:196:GLU:HB3	1:Pl:265:ASN:HD22	1.79	0.47
1:Pn:65:ASN:HB2	2:Qp:59:ILE:H	1.80	0.47
1:Po:306:ALA:O	4:RZ:31:LEU:HB2	2.15	0.47
1:Pp:45:LYS:HE2	1:Pp:78:ARG:HD3	1.96	0.47
1:Ps:13:VAL:HA	1:Ps:16:ILE:HG22	1.95	0.47
1:Pw:49:TRP:CZ3	1:Pw:74:SER:HB3	2.49	0.47
1:Pw:143:LYS:HA	2:QP:39:ARG:HD2	1.96	0.47
2:QP:167:THR:HG22	2:QP:168:GLU:H	1.80	0.47
2:QX:69:TYR:HB2	2:QX:101:ILE:HD12	1.96	0.47
2:Qa:167:THR:HB	2:Qa:170:LEU:HB3	1.97	0.47
2:Qo:148:VAL:HG21	2:Qo:155:VAL:HG12	1.97	0.47
2:Qp:125:LYS:NZ	2:Qp:169:ASP:OD1	2.46	0.47
4:RJ:171:GLN:HB2	4:RJ:177:TYR:CE1	2.49	0.47
4:RM:65:LEU:HD12	4:RM:92:HIS:CE1	2.49	0.47
4:RO:142:ILE:HD11	4:RO:152:VAL:HG13	1.96	0.47
4:RS:37:GLU:HG3	4:RS:39:ARG:H	1.80	0.47
4:RS:64:PHE:CZ	4:RS:108:ILE:HD11	2.50	0.47
4:RU:149:LEU:HD13	4:RU:181:VAL:HG21	1.96	0.47
4:RW:107:ASP:HB3	4:RW:116:THR:HB	1.95	0.47
1:TK:174:LYS:O	1:TK:212:LYS:NZ	2.47	0.47
1:TU:150:ARG:NH2	2:Uw:106:GLY:O	2.48	0.47
1:Tb:49:TRP:CZ3	1:Tb:74:SER:HB3	2.49	0.47
1:Tv:143:LYS:HE3	4:WF:37:GLU:HG2	1.97	0.47
1:Tz:161:MET:HE3	1:Tz:306:ALA:HB3	1.96	0.47
1:UB:161:MET:HG3	4:WF:31:LEU:HD21	1.95	0.47
1:UC:86:TYR:HD2	1:UI:70:ILE:HD11	1.80	0.47
1:UE:87:LYS:NZ	2:VV:53:THR:O	2.29	0.47
1:UF:57:PRO:HB2	1:UW:84:LEU:HB3	1.97	0.47
1:UF:161:MET:SD	2:VX:31:LEU:HD21	2.54	0.47
1:UG:212:LYS:HA	1:UG:215:LYS:HE3	1.95	0.47
1:UI:49:TRP:CZ3	1:UI:74:SER:HB3	2.50	0.47
1:UI:307:THR:HG22	2:VU:32:LEU:HB2	1.97	0.47
1:UP:49:TRP:CZ3	1:UP:74:SER:HB3	2.50	0.47
1:UU:49:TRP:CZ3	1:UU:74:SER:HB3	2.50	0.47
1:Uh:55:ALA:O	1:Uk:86:TYR:OH	2.18	0.47
1:Ui:261:ILE:HD12	1:Ui:312:LEU:HD23	1.96	0.47
1:Ul:33:GLN:NE2	1:Ul:269:ILE:O	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ul:143:LYS:HA	2:VE:39:ARG:HD2	1.96	0.47
2:Ut:69:TYR:HB2	2:Ut:101:ILE:HD12	1.95	0.47
2:VM:69:TYR:HB2	2:VM:101:ILE:HD12	1.96	0.47
2:VS:166:LEU:HB2	2:VS:170:LEU:HD23	1.96	0.47
2:VV:138:ASN:HD22	2:VV:153:LYS:HG2	1.79	0.47
2:Ve:125:LYS:NZ	2:Ve:169:ASP:OD1	2.45	0.47
2:Vp:137:LEU:HD11	2:Vp:159:ALA:HB2	1.96	0.47
4:WD:77:ILE:HG13	4:WD:91:PRO:HB3	1.96	0.47
4:WE:137:VAL:HG12	4:WE:138:LYS:HG3	1.96	0.47
4:WJ:149:LEU:HD13	4:WJ:181:VAL:HG21	1.96	0.47
4:WL:78:GLN:HE22	4:WL:89:TYR:HB2	1.79	0.47
6:Xy:305:GLU:O	6:Xy:309:ARG:HG3	2.14	0.47
6:Xz:16:LEU:HG	6:Xz:20:LYS:HE3	1.97	0.47
6:YB:35:ASP:OD2	6:YB:329:TYR:OH	2.20	0.47
6:YF:305:GLU:O	6:YF:309:ARG:HG3	2.14	0.47
6:YG:305:GLU:O	6:YG:309:ARG:HG3	2.14	0.47
6:YH:16:LEU:HG	6:YH:20:LYS:HE3	1.97	0.47
5:YQ:55:ILE:O	5:YQ:58:ARG:HG3	2.15	0.47
5:YX:75:GLN:O	5:YX:79:GLU:HG2	2.14	0.47
5:Yd:134:ILE:HG21	5:Ye:134:ILE:HD12	1.96	0.47
5:Yj:55:ILE:O	5:Yj:59:ILE:HG12	2.14	0.47
5:Ym:113:ILE:O	5:Ym:117:GLN:HG2	2.15	0.47
5:Ys:126:VAL:HG22	5:Ys:154:LEU:HG	1.97	0.47
5:ZC:94:LEU:HD11	5:ZC:121:LEU:HG	1.96	0.47
5:ZE:75:GLN:O	5:ZE:79:GLU:HG2	2.15	0.47
5:ZI:79:GLU:O	5:ZI:83:ILE:HG12	2.15	0.47
5:ZK:59:ILE:HG13	5:ZW:98:PHE:CE2	2.49	0.47
5:ZK:154:LEU:HD13	5:ZL:130:GLN:HG3	1.96	0.47
5:ZP:72:ILE:O	5:ZP:76:LEU:HG	2.15	0.47
5:ZU:73:GLU:O	5:ZU:77:LEU:HG	2.14	0.47
5:Zo:111:LYS:HZ2	5:Zr:74:LYS:HE3	1.80	0.47
5:ak:98:PHE:HB3	5:ak:117:GLN:HE22	1.79	0.47
5:bA:73:GLU:O	5:bA:77:LEU:HG	2.14	0.47
5:bA:111:LYS:HZ2	5:bD:74:LYS:HE3	1.79	0.47
5:bI:55:ILE:HG21	5:bo:116:ALA:HB2	1.96	0.47
5:bS:73:GLU:O	5:bS:77:LEU:HG	2.14	0.47
5:bd:112:ASP:OD1	5:bd:115:GLN:NE2	2.47	0.47
5:bu:55:ILE:HG21	5:ca:116:ALA:HB2	1.96	0.47
5:cA:131:ILE:HD13	5:cA:140:ILE:HD11	1.97	0.47
5:cS:98:PHE:HB3	5:cS:117:GLN:HE22	1.79	0.47
5:cj:99:ASN:HB3	5:cj:102:VAL:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dP:75:GLN:NE2	5:dP:79:GLU:OE1	2.44	0.47
5:dS:86:ILE:HD11	5:dS:118:ARG:HE	1.80	0.47
5:dY:55:ILE:HD13	5:eE:116:ALA:HB1	1.97	0.47
5:dc:86:ILE:HD11	5:dc:118:ARG:HE	1.80	0.47
5:df:112:ASP:OD1	5:df:115:GLN:NE2	2.48	0.47
5:dh:122:VAL:HG11	5:dh:151:LEU:HD13	1.96	0.47
5:dj:122:VAL:HG11	5:dj:151:LEU:HD13	1.96	0.47
5:do:57:GLU:HA	5:do:60:THR:HG22	1.96	0.47
5:du:55:ILE:HG23	5:ec:147:ILE:HB	1.97	0.47
5:eC:55:ILE:HD12	5:ek:136:LYS:HZ3	1.80	0.47
5:eL:122:VAL:HG11	5:eL:151:LEU:HD13	1.95	0.47
5:eW:116:ALA:HB1	5:fC:55:ILE:HD13	1.97	0.47
5:eY:116:ALA:HB1	5:fE:55:ILE:HD13	1.97	0.47
5:ef:112:ASP:OD1	5:ef:115:GLN:NE2	2.48	0.47
5:eg:116:ALA:HB1	5:fM:55:ILE:HD13	1.94	0.47
5:ek:57:GLU:HA	5:ek:60:THR:HG22	1.96	0.47
5:em:57:GLU:HA	5:em:60:THR:HG22	1.96	0.47
5:eu:131:ILE:HD13	5:eu:140:ILE:HD11	1.97	0.47
5:ey:98:PHE:HB3	5:ey:117:GLN:HE22	1.79	0.47
5:fC:86:ILE:HD11	5:fC:118:ARG:HE	1.79	0.47
5:fN:75:GLN:NE2	5:fN:79:GLU:OE1	2.44	0.47
5:fw:86:ILE:HD11	5:fw:118:ARG:HE	1.78	0.47
5:fy:131:ILE:HD13	5:fy:140:ILE:HD11	1.97	0.47
5:fz:75:GLN:NE2	5:fz:79:GLU:OE1	2.44	0.47
5:gB:75:GLN:NE2	5:gB:79:GLU:OE1	2.44	0.47
5:gC:73:GLU:O	5:gC:77:LEU:HG	2.14	0.47
5:gD:75:GLN:NE2	5:gD:79:GLU:OE1	2.44	0.47
1:AM:59:THR:O	4:Cm:61:ASN:ND2	2.47	0.47
1:Ah:129:LEU:HD11	1:Ah:139:VAL:HG13	1.97	0.47
1:Ak:159:LEU:HD12	1:Ak:260:LEU:HD13	1.96	0.47
1:Aq:45:LYS:HG2	1:Aq:78:ARG:HB2	1.96	0.47
1:BA:307:THR:HG22	2:CM:32:LEU:HB2	1.97	0.47
1:BD:84:LEU:HD13	1:BG:57:PRO:HB2	1.96	0.47
1:BQ:79:LEU:HD11	1:BQ:305:LEU:HB2	1.96	0.47
1:BT:165:ILE:HD13	1:BT:191:LEU:HD23	1.96	0.47
1:BU:110:ASN:OD1	1:BW:62:ASN:ND2	2.37	0.47
1:BY:286:ASP:HB2	1:BY:294:HIS:HB2	1.96	0.47
1:BZ:87:LYS:NZ	2:Ch:53:THR:O	2.32	0.47
1:Ba:205:VAL:HG12	1:Ba:259:ILE:HG23	1.97	0.47
1:Bb:296:TYR:HE2	1:Bd:67:ILE:HG13	1.78	0.47
4:Co:141:LEU:HD11	4:Co:165:ALA:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Cz:64:PHE:CZ	4:Cz:108:ILE:HD11	2.50	0.47
4:DD:78:GLN:HE22	4:DD:89:TYR:HB2	1.79	0.47
1:FB:59:THR:O	4:Hb:61:ASN:ND2	2.47	0.47
1:FI:54:ASN:HB3	2:Ge:51:VAL:HG12	1.96	0.47
1:FZ:49:TRP:CE3	1:FZ:74:SER:HB3	2.50	0.47
1:Fi:135:LEU:HD21	1:Fi:255:LEU:HG	1.95	0.47
1:Fp:307:THR:HG22	2:HB:32:LEU:HB2	1.97	0.47
1:Fu:272:LYS:N	1:Fu:303:GLY:O	2.37	0.47
1:Fw:174:LYS:O	1:Fw:212:LYS:NZ	2.48	0.47
1:Fz:286:ASP:HB2	1:Fz:294:HIS:HB2	1.96	0.47
1:GE:85:GLN:NE2	1:GE:298:ASP:OD1	2.46	0.47
1:GL:288:ASP:OD1	1:GL:289:SER:N	2.44	0.47
1:GQ:52:PHE:CZ	1:GQ:71:GLY:HA3	2.50	0.47
2:Gt:69:TYR:HB2	2:Gt:101:ILE:HD12	1.96	0.47
2:HR:76:SER:HB3	2:HR:87:GLU:HG2	1.97	0.47
3:HY:171:ARG:HG2	3:HY:190:ILE:HG22	1.96	0.47
4:Hh:78:GLN:HE22	4:Hh:89:TYR:HB2	1.80	0.47
4:Hk:69:TYR:HB2	4:Hk:108:ILE:HD12	1.97	0.47
1:Jx:54:ASN:HB3	2:LT:51:VAL:HG12	1.96	0.47
1:Ke:49:TRP:CZ3	1:Ke:74:SER:HB3	2.50	0.47
1:Ke:110:ASN:ND2	1:Kr:62:ASN:OD1	2.48	0.47
1:LA:78:ARG:O	1:LA:154:ASN:ND2	2.34	0.47
1:LF:80:ASN:ND2	1:LF:154:ASN:HB2	2.29	0.47
1:LH:45:LYS:HE2	1:LH:78:ARG:HD3	1.96	0.47
1:LH:109:ASN:O	2:La:24:ASN:ND2	2.48	0.47
2:LJ:167:THR:HB	2:LJ:170:LEU:HB3	1.96	0.47
2:LY:157:ALA:HB2	2:LY:177:VAL:HG22	1.97	0.47
2:LZ:69:TYR:CZ	2:LZ:70:LYS:HE2	2.50	0.47
4:Mk:26:GLN:NE2	4:Mk:28:ASP:OD1	2.47	0.47
1:Oa:152:LEU:HD21	2:QD:105:SER:HA	1.97	0.47
1:Ot:174:LYS:O	1:Ot:212:LYS:NZ	2.48	0.47
1:Oy:286:ASP:HB2	1:Oy:294:HIS:HB2	1.97	0.47
1:Pa:49:TRP:CZ3	1:Pa:74:SER:HB3	2.50	0.47
1:Pb:49:TRP:CE3	1:Pb:74:SER:HB3	2.50	0.47
1:Pb:55:ALA:O	1:UT:86:TYR:OH	2.26	0.47
1:Pb:80:ASN:ND2	1:Pb:153:PRO:O	2.47	0.47
1:Pl:13:VAL:HA	1:Pl:16:ILE:HG22	1.96	0.47
1:Pp:161:MET:HG3	2:Qx:31:LEU:HD11	1.97	0.47
2:Py:137:LEU:HD11	2:Py:159:ALA:HB2	1.97	0.47
2:QE:153:LYS:HG3	2:QE:154:SER:H	1.80	0.47
2:QY:37:ASP:O	2:QY:41:GLN:NE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RE:93:VAL:HG21	4:RE:117:ILE:HD11	1.96	0.47
4:RF:141:LEU:HD11	4:RF:165:ALA:HB2	1.96	0.47
4:RN:77:ILE:HG12	4:RN:91:PRO:HB3	1.96	0.47
1:UD:174:LYS:O	1:UD:212:LYS:NZ	2.47	0.47
1:UN:175:ASP:HA	1:UN:212:LYS:NZ	2.30	0.47
1:UP:45:LYS:HE2	1:UP:78:ARG:HD3	1.96	0.47
1:UR:135:LEU:HD21	1:UR:255:LEU:HG	1.96	0.47
1:Ul:25:MET:HE1	1:Ul:130:ILE:HG22	1.96	0.47
2:VP:23:LYS:N	2:VP:67:TYR:OH	2.48	0.47
2:VU:125:LYS:HD2	2:VU:169:ASP:HA	1.96	0.47
2:VY:63:PRO:HB2	2:VY:85:GLU:HG2	1.97	0.47
2:Vh:23:LYS:N	2:Vh:67:TYR:OH	2.48	0.47
2:Vm:75:LEU:HD22	2:Vm:84:LEU:HD13	1.97	0.47
2:Vq:75:LEU:HD22	2:Vq:84:LEU:HD13	1.97	0.47
6:YF:16:LEU:HG	6:YF:20:LYS:HE3	1.97	0.47
6:YI:85:THR:HA	6:YI:102:ILE:HG12	1.97	0.47
6:YI:211:LEU:O	6:YI:215:THR:HG23	2.15	0.47
5:YP:60:THR:HG21	5:Yd:146:GLU:HB3	1.97	0.47
5:YQ:55:ILE:HG13	5:YQ:58:ARG:HE	1.80	0.47
5:Yb:129:GLU:HA	5:Yb:132:LYS:HE2	1.96	0.47
5:Yf:99:ASN:HB3	5:Yf:102:VAL:HG22	1.97	0.47
5:Ym:75:GLN:O	5:Ym:79:GLU:HG2	2.14	0.47
5:Yr:81:GLU:HG2	5:Ys:83:ILE:HG21	1.97	0.47
5:Yt:130:GLN:HG2	5:Yt:154:LEU:HD21	1.97	0.47
5:Yy:131:ILE:HD13	5:Yy:140:ILE:HD11	1.97	0.47
5:ZL:70:GLU:O	5:ZL:74:LYS:HG2	2.15	0.47
5:ZO:73:GLU:O	5:ZO:77:LEU:HG	2.15	0.47
5:ZS:79:GLU:O	5:ZS:83:ILE:HG12	2.15	0.47
5:Zg:79:GLU:O	5:Zg:83:ILE:HG12	2.14	0.47
5:Zi:111:LYS:HZ2	5:Zl:74:LYS:HE3	1.80	0.47
5:Zm:111:LYS:HZ2	5:Zp:74:LYS:HE3	1.79	0.47
5:aK:86:ILE:HD11	5:aK:118:ARG:HE	1.79	0.47
5:bM:55:ILE:HG21	5:bs:116:ALA:HB2	1.95	0.47
5:cy:73:GLU:O	5:cy:77:LEU:HG	2.14	0.47
5:dt:122:VAL:HG11	5:dt:151:LEU:HD13	1.96	0.47
5:eJ:122:VAL:HG11	5:eJ:151:LEU:HD13	1.95	0.47
5:ec:116:ALA:HB1	5:fI:55:ILE:HD13	1.95	0.47
5:ev:112:ASP:OD1	5:ev:115:GLN:NE2	2.48	0.47
1:AX:86:TYR:OH	1:FJ:55:ALA:O	2.29	0.47
1:Az:132:HIS:O	1:Az:136:THR:OG1	2.33	0.47
1:BG:26:TYR:O	5:EQ:218:TYR:OH	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:84:LEU:HD13	1:BO:57:PRO:HB2	1.97	0.47
1:BO:272:LYS:N	1:BO:303:GLY:O	2.40	0.47
1:Bb:49:TRP:CZ3	1:Bb:74:SER:HB3	2.50	0.47
2:Bf:167:THR:HB	2:Bf:170:LEU:HB3	1.96	0.47
2:By:148:VAL:HG21	2:By:155:VAL:HG12	1.97	0.47
2:CA:123:LEU:HD21	2:CA:131:VAL:HG21	1.96	0.47
2:CL:56:LYS:NZ	2:CM:55:SER:O	2.47	0.47
2:CM:125:LYS:HD2	2:CM:169:ASP:HA	1.96	0.47
2:CU:63:PRO:HB2	2:CU:85:GLU:HG2	1.97	0.47
2:Cg:134:GLY:HA2	4:DI:77:ILE:HD13	1.97	0.47
2:Ch:137:LEU:HD11	2:Ch:159:ALA:HB2	1.96	0.47
4:Cv:69:TYR:HB2	4:Cv:108:ILE:HD12	1.97	0.47
4:Cw:77:ILE:HG12	4:Cw:91:PRO:HB3	1.97	0.47
4:DF:6:GLN:HA	4:DF:9:LYS:HD2	1.97	0.47
1:FF:140:SER:HB2	1:FF:148:GLN:HG2	1.97	0.47
1:FU:286:ASP:HB2	1:FU:294:HIS:HB2	1.97	0.47
1:Fc:143:LYS:HE3	4:Hm:37:GLU:HG2	1.97	0.47
1:Fe:96:GLU:O	1:Fe:100:THR:HG23	2.15	0.47
1:Fm:80:ASN:ND2	1:Fm:153:PRO:O	2.47	0.47
1:Fp:49:TRP:CZ3	1:Fp:74:SER:HB3	2.50	0.47
1:Fq:196:GLU:HB3	1:Fq:265:ASN:HD22	1.80	0.47
1:GQ:49:TRP:CZ3	1:GQ:74:SER:HB3	2.50	0.47
1:GS:25:MET:HE1	1:GS:130:ILE:HG22	1.96	0.47
2:Gn:148:VAL:HG21	2:Gn:155:VAL:HG12	1.97	0.47
1:Jm:185:GLU:OE2	1:Oj:215:LYS:HE3	2.15	0.47
1:Jn:66:THR:HG22	2:LO:52:CYS:SG	2.55	0.47
1:Jq:150:ARG:NH2	2:LS:106:GLY:O	2.48	0.47
1:KA:41:MET:HE1	4:MU:112:SER:HB3	1.97	0.47
1:KJ:286:ASP:HB2	1:KJ:294:HIS:HB2	1.97	0.47
1:KQ:19:GLU:HA	1:KQ:120:LYS:HD3	1.97	0.47
1:KR:178:ASP:OD1	1:KR:178:ASP:N	2.47	0.47
1:KU:159:LEU:HD12	1:KU:260:LEU:HD13	1.96	0.47
1:Kb:57:PRO:HB2	1:Ks:84:LEU:HB3	1.97	0.47
1:Kb:161:MET:SD	2:Lt:31:LEU:HD21	2.54	0.47
1:Kc:48:LYS:HD2	4:Md:32:LEU:HD22	1.97	0.47
1:Kd:41:MET:HE2	1:Kd:83:LYS:H	1.79	0.47
1:LD:87:LYS:NZ	2:ML:53:THR:O	2.32	0.47
1:LF:49:TRP:CZ3	1:LF:74:SER:HB3	2.50	0.47
2:Lc:148:VAL:HG21	2:Lc:155:VAL:HG12	1.97	0.47
2:MA:125:LYS:NZ	2:MA:169:ASP:OD1	2.45	0.47
4:MZ:77:ILE:HG13	4:MZ:91:PRO:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Mc:77:ILE:HG13	4:Mc:91:PRO:HB3	1.97	0.47
1:PC:286:ASP:HB2	1:PC:294:HIS:HB2	1.97	0.47
1:PS:19:GLU:OE1	1:PS:120:LYS:NZ	2.44	0.47
1:PT:307:THR:HG22	2:Qf:32:LEU:HB2	1.97	0.47
1:PV:317:LYS:HE2	1:PV:319:SER:HB2	1.97	0.47
1:PZ:278:LEU:HD12	5:Sj:210:TYR:CG	2.50	0.47
1:Pd:286:ASP:HB2	1:Pd:294:HIS:HB2	1.96	0.47
1:Pk:165:ILE:HD13	1:Pk:191:LEU:HD23	1.96	0.47
1:Pr:49:TRP:CZ3	1:Pr:74:SER:HB3	2.50	0.47
1:Ps:43:TYR:HE2	1:Ps:45:LYS:HE2	1.79	0.47
1:Ps:255:LEU:HD22	1:Ps:258:LYS:HB2	1.97	0.47
2:Py:167:THR:HB	2:Py:170:LEU:HB3	1.96	0.47
2:Pz:32:LEU:HB2	1:TJ:307:THR:HG22	1.97	0.47
2:RA:137:LEU:HD11	2:RA:159:ALA:HB2	1.96	0.47
4:RQ:140:LYS:HD3	4:RQ:161:ILE:HD13	1.96	0.47
4:RY:6:GLN:HA	4:RY:9:LYS:HD2	1.97	0.47
1:TR:31:PRO:HG3	5:Wb:218:TYR:CG	2.50	0.47
1:Tn:286:ASP:HB2	1:Tn:294:HIS:HB2	1.97	0.47
1:UH:41:MET:HE2	1:UH:83:LYS:H	1.79	0.47
1:UI:110:ASN:ND2	1:UV:62:ASN:OD1	2.48	0.47
1:UU:84:LEU:HD13	1:UW:57:PRO:HB2	1.97	0.47
1:Ub:49:TRP:CZ3	1:Ub:74:SER:HB3	2.50	0.47
1:Uj:80:ASN:ND2	1:Uj:154:ASN:HB2	2.29	0.47
1:Um:66:THR:HG22	2:Vn:52:CYS:HB3	1.97	0.47
2:Us:140:ASN:HD21	2:Us:144:GLU:HB2	1.79	0.47
2:Ut:153:LYS:HG3	2:Ut:154:SER:H	1.80	0.47
2:VD:69:TYR:CZ	2:VD:70:LYS:HE2	2.50	0.47
2:VE:167:THR:HG22	2:VE:168:GLU:H	1.79	0.47
4:WE:35:SER:HB2	4:WE:41:LYS:HE3	1.97	0.47
6:YG:16:LEU:HG	6:YG:20:LYS:HE3	1.97	0.47
6:YH:245:LEU:HA	6:YH:248:LEU:HD12	1.97	0.47
5:Yl:135:ALA:HB1	5:Yl:143:ILE:HG12	1.97	0.47
5:Yu:75:GLN:O	5:Yu:79:GLU:HG2	2.14	0.47
5:ZM:55:ILE:CG2	5:ZU:116:ALA:HB2	2.44	0.47
5:ZO:79:GLU:O	5:ZO:83:ILE:HG12	2.15	0.47
5:ZU:111:LYS:HZ2	5:ZX:74:LYS:HE3	1.80	0.47
5:Zm:55:ILE:HD13	5:aS:116:ALA:HB1	1.97	0.47
5:Zm:131:ILE:HD13	5:Zm:140:ILE:HD11	1.96	0.47
5:aG:131:ILE:HD13	5:aG:140:ILE:HD11	1.97	0.47
5:ay:86:ILE:HD11	5:ay:118:ARG:HE	1.79	0.47
5:bK:73:GLU:O	5:bK:77:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:cK:131:ILE:HD13	5:cK:140:ILE:HD11	1.97	0.47
5:cQ:111:LYS:HZ2	5:cT:74:LYS:HE3	1.78	0.47
5:cg:113:ILE:O	5:cg:117:GLN:HG2	2.15	0.47
5:ci:55:ILE:HD13	5:dO:116:ALA:HB1	1.97	0.47
5:dN:75:GLN:NE2	5:dN:79:GLU:OE1	2.45	0.47
5:dR:75:GLN:NE2	5:dR:79:GLU:OE1	2.44	0.47
5:dV:75:GLN:NE2	5:dV:79:GLU:OE1	2.44	0.47
5:dW:111:LYS:HZ2	5:dZ:74:LYS:HE3	1.80	0.47
5:fA:116:ALA:HB1	5:fg:55:ILE:HD13	1.96	0.47
5:fX:112:ASP:OD1	5:fX:115:GLN:NE2	2.48	0.47
1:AF:162:PRO:HG2	2:Bh:31:LEU:HD11	1.97	0.47
1:AT:54:ASN:HB3	2:Bp:51:VAL:HG12	1.96	0.47
1:AV:49:TRP:CZ3	1:AV:74:SER:HB3	2.50	0.47
1:AW:57:PRO:HB2	1:FI:84:LEU:HB3	1.97	0.47
1:AX:165:ILE:HD13	1:AX:191:LEU:HD12	1.97	0.47
1:AY:133:PHE:O	1:AY:137:GLY:N	2.37	0.47
1:Af:165:ILE:HD13	1:Af:191:LEU:HD23	1.97	0.47
1:Ah:20:VAL:O	5:Dr:213:ARG:NH2	2.32	0.47
1:An:143:LYS:HE3	4:Cx:37:GLU:HG2	1.97	0.47
1:Au:59:THR:OG1	4:Ho:61:ASN:ND2	2.47	0.47
1:Au:86:TYR:HD2	1:BA:70:ILE:HD11	1.80	0.47
1:Ax:80:ASN:ND2	1:Ax:153:PRO:O	2.47	0.47
1:BW:16:ILE:HD12	1:BW:116:ALA:HB1	1.97	0.47
1:Bd:109:ASN:O	2:Bw:24:ASN:ND2	2.48	0.47
2:Bw:167:THR:HG22	2:Bw:168:GLU:H	1.79	0.47
2:CD:31:LEU:HB3	2:CD:34:ASN:ND2	2.30	0.47
4:Cq:149:LEU:HD13	4:Cq:181:VAL:HG21	1.96	0.47
4:Cu:77:ILE:HG12	4:Cu:91:PRO:HB3	1.96	0.47
1:FO:26:TYR:O	5:IY:218:TYR:OH	2.30	0.47
1:GI:57:PRO:HB2	1:GM:84:LEU:HD13	1.96	0.47
2:HQ:77:PHE:HD2	4:Hv:138:LYS:HG3	1.80	0.47
4:Ho:64:PHE:CZ	4:Ho:108:ILE:HD11	2.50	0.47
1:Jv:143:LYS:HA	2:LU:39:ARG:HE	1.80	0.47
1:KB:282:ASN:HB3	1:KB:296:TYR:HB2	1.97	0.47
1:Kc:84:LEU:HD13	1:Kd:57:PRO:HB2	1.97	0.47
1:Kl:194:GLY:HA3	2:MA:36:ILE:HG21	1.97	0.47
1:Ks:288:ASP:OD1	1:Ks:289:SER:N	2.43	0.47
1:LC:87:LYS:HD3	1:LC:294:HIS:HD2	1.80	0.47
1:LH:143:LYS:HA	2:La:39:ARG:HD2	1.96	0.47
2:Ld:167:THR:HG22	2:Ld:168:GLU:H	1.78	0.47
2:Lu:63:PRO:HB2	2:Lu:85:GLU:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MG:76:SER:HB3	2:MG:87:GLU:HG2	1.97	0.47
4:MZ:142:ILE:HD11	4:MZ:152:VAL:HG13	1.96	0.47
4:Mb:137:VAL:HG12	4:Mb:138:LYS:HG3	1.96	0.47
1:OT:54:ASN:OD1	2:Un:47:ASN:ND2	2.43	0.47
1:OV:79:LEU:HD11	1:OV:305:LEU:HB2	1.95	0.47
1:OW:66:THR:HG22	4:RH:52:ARG:HB3	1.96	0.47
1:Ob:87:LYS:NZ	2:QE:53:THR:O	2.38	0.47
1:Oc:66:THR:HG22	2:QD:52:CYS:SG	2.55	0.47
1:Of:150:ARG:NH2	2:QH:106:GLY:O	2.48	0.47
1:Ok:143:LYS:HA	2:QJ:39:ARG:HE	1.80	0.47
1:Oy:242:ASN:ND2	1:Oy:245:GLU:HB2	2.29	0.47
1:PJ:45:LYS:HG2	1:PJ:78:ARG:HB2	1.96	0.47
1:PN:49:TRP:CE3	1:UF:113:LEU:HD11	2.49	0.47
1:PT:8:TYR:CD2	1:PT:93:GLN:HG3	2.50	0.47
1:Pf:49:TRP:CZ3	1:Pf:74:SER:HB3	2.50	0.47
1:Pf:84:LEU:HD13	1:Ph:57:PRO:HB2	1.97	0.47
1:Pq:47:VAL:HG22	1:Pq:76:VAL:HG22	1.97	0.47
1:Pw:288:ASP:OD1	1:Pw:289:SER:N	2.41	0.47
2:QM:125:LYS:HD2	2:QM:169:ASP:HA	1.95	0.47
2:QO:69:TYR:CZ	2:QO:70:LYS:HE2	2.50	0.47
2:QX:23:LYS:N	2:QX:67:TYR:OH	2.48	0.47
2:Qq:75:LEU:HD22	2:Qq:84:LEU:HD13	1.96	0.47
4:RI:140:LYS:HD3	4:RI:161:ILE:HD13	1.97	0.47
4:RP:137:VAL:HG12	4:RP:138:LYS:HG3	1.96	0.47
1:Tb:54:ASN:HB3	2:Ux:51:VAL:HG12	1.96	0.47
1:Ti:161:MET:SD	2:VB:31:LEU:HD21	2.55	0.47
1:Ti:174:LYS:O	1:Ti:212:LYS:NZ	2.48	0.47
1:Ts:49:TRP:CE3	1:Ts:74:SER:HB3	2.50	0.47
1:UD:205:VAL:HG12	1:UD:259:ILE:HG23	1.95	0.47
1:UW:288:ASP:OD1	1:UW:289:SER:N	2.43	0.47
1:UX:148:GLN:HG3	2:VZ:81:THR:O	2.14	0.47
1:Ub:55:ALA:O	1:Uf:86:TYR:OH	2.20	0.47
1:Ub:165:ILE:HD13	1:Ub:191:LEU:HD23	1.96	0.47
1:Uc:65:ASN:HB2	2:Ve:59:ILE:H	1.80	0.47
1:Ud:86:TYR:OH	1:Ue:55:ALA:O	2.19	0.47
2:VC:63:PRO:HB2	2:VC:85:GLU:HB3	1.97	0.47
2:Vk:125:LYS:HD2	2:Vk:169:ASP:HA	1.97	0.47
4:Vt:93:VAL:HG21	4:Vt:117:ILE:HD11	1.96	0.47
4:WB:165:ALA:HA	4:WB:181:VAL:HG22	1.96	0.47
4:WD:69:TYR:HB2	4:WD:108:ILE:HD12	1.97	0.47
4:WF:137:VAL:HG12	4:WF:138:LYS:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:YA:305:GLU:O	6:YA:309:ARG:HG3	2.15	0.47
6:YC:16:LEU:HG	6:YC:20:LYS:HE3	1.97	0.47
6:YC:305:GLU:O	6:YC:309:ARG:HG3	2.14	0.47
5:YN:65:GLU:HG3	5:YN:69:ARG:HE	1.80	0.47
5:Yc:113:ILE:O	5:Yc:117:GLN:HG2	2.15	0.47
5:Ys:75:GLN:O	5:Ys:79:GLU:HG2	2.15	0.47
5:Yw:94:LEU:HD11	5:Yw:121:LEU:HG	1.96	0.47
5:ZA:86:ILE:HD11	5:ZA:118:ARG:HE	1.80	0.47
5:ZC:73:GLU:O	5:ZC:77:LEU:HG	2.14	0.47
5:ZO:55:ILE:O	5:ZO:59:ILE:HG12	2.14	0.47
5:aO:98:PHE:HB3	5:aO:117:GLN:HE22	1.80	0.47
5:aQ:86:ILE:HD11	5:aQ:118:ARG:HE	1.79	0.47
5:bk:98:PHE:HB3	5:bk:117:GLN:HE22	1.79	0.47
5:bm:98:PHE:HB3	5:bm:117:GLN:HE22	1.80	0.47
5:cR:112:ASP:OD1	5:cR:115:GLN:NE2	2.48	0.47
5:dT:75:GLN:NE2	5:dT:79:GLU:OE1	2.45	0.47
5:eP:112:ASP:OD1	5:eP:115:GLN:NE2	2.48	0.47
1:AC:79:LEU:HD11	1:AC:305:LEU:HB2	1.95	0.46
1:Ap:96:GLU:O	1:Ap:100:THR:HG23	2.15	0.46
1:As:77:VAL:HG21	2:CS:32:LEU:HD23	1.98	0.46
1:At:272:LYS:N	1:At:303:GLY:O	2.38	0.46
1:BC:296:TYR:HE2	1:UY:67:ILE:HG13	1.80	0.46
1:BC:317:LYS:HE2	1:BC:319:SER:HB2	1.97	0.46
1:Bb:178:ASP:OD1	1:Bb:178:ASP:N	2.47	0.46
1:Be:66:THR:HG22	2:Cf:52:CYS:HB3	1.97	0.46
2:Bp:37:ASP:O	2:Bp:41:GLN:NE2	2.49	0.46
2:CF:37:ASP:O	2:CF:41:GLN:NE2	2.48	0.46
2:Cc:125:LYS:HD2	2:Cc:169:ASP:HA	1.97	0.46
4:Cp:140:LYS:HD3	4:Cp:161:ILE:HD13	1.98	0.46
4:Cr:25:PRO:HB2	4:Cr:27:HIS:CD2	2.50	0.46
4:Cs:149:LEU:HD13	4:Cs:181:VAL:HG21	1.95	0.46
4:Cw:35:SER:HB2	4:Cw:41:LYS:HE3	1.97	0.46
1:Ev:49:TRP:CZ3	1:Ev:74:SER:HB3	2.51	0.46
1:FW:55:ALA:O	1:Fa:86:TYR:OH	2.27	0.46
1:GF:79:LEU:HD11	1:GF:305:LEU:HB2	1.96	0.46
1:GH:13:VAL:HA	1:GH:16:ILE:HG22	1.96	0.46
1:GO:43:TYR:HE2	1:GO:45:LYS:HE2	1.79	0.46
1:GP:261:ILE:HD12	1:GP:312:LEU:HD23	1.96	0.46
2:GU:167:THR:HB	2:GU:170:LEU:HB3	1.96	0.46
2:Gk:69:TYR:CZ	2:Gk:70:LYS:HE2	2.50	0.46
2:Gx:69:TYR:HB2	2:Gx:101:ILE:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HD:153:LYS:O	2:HD:181:ARG:NH1	2.47	0.46
2:HF:63:PRO:HB2	2:HF:85:GLU:HG2	1.97	0.46
4:Ho:37:GLU:HG3	4:Ho:39:ARG:H	1.80	0.46
4:Ht:36:ASN:HD22	1:Kq:195:ASP:H	1.63	0.46
1:KD:283:GLU:HB2	5:NN:199:PHE:CE2	2.51	0.46
1:KE:161:MET:SD	2:LX:31:LEU:HD21	2.55	0.46
1:KS:57:PRO:HB2	1:KW:84:LEU:HB3	1.98	0.46
1:Kl:48:LYS:HG3	2:MA:32:LEU:HD22	1.96	0.46
1:Km:49:TRP:CE3	1:Km:74:SER:HB3	2.50	0.46
1:Kq:84:LEU:HD13	1:Ks:57:PRO:HB2	1.97	0.46
1:Kw:49:TRP:CH2	1:Kw:74:SER:HB3	2.50	0.46
1:LE:135:LEU:HD21	1:LE:255:LEU:HG	1.97	0.46
1:LE:308:ARG:O	2:MF:34:ASN:ND2	2.42	0.46
2:LP:153:LYS:HG3	2:LP:154:SER:H	1.80	0.46
2:Li:140:ASN:OD1	2:Li:144:GLU:N	2.43	0.46
1:Od:256:LYS:O	1:Od:258:LYS:HG2	2.16	0.46
1:Oe:261:ILE:HD12	1:Oe:312:LEU:HD23	1.96	0.46
1:Om:54:ASN:HB3	2:QI:51:VAL:HG12	1.96	0.46
1:Ou:65:ASN:HB2	4:WB:59:LEU:H	1.80	0.46
1:PH:57:PRO:HB2	1:PL:84:LEU:HB3	1.98	0.46
1:Pj:67:ILE:HG13	1:UK:296:TYR:HE2	1.80	0.46
1:Pw:66:THR:HG22	2:RB:52:CYS:HB3	1.97	0.46
1:Pw:109:ASN:O	2:QP:24:ASN:ND2	2.48	0.46
2:RB:75:LEU:HD22	2:RB:84:LEU:HD13	1.97	0.46
4:RR:77:ILE:HG13	4:RR:91:PRO:HB3	1.97	0.46
1:TI:163:GLU:OE1	1:TI:308:ARG:NH1	2.48	0.46
1:TR:20:VAL:O	5:Wb:213:ARG:NH2	2.30	0.46
1:TS:256:LYS:O	1:TS:258:LYS:HG2	2.16	0.46
1:Tm:55:ALA:O	1:Tq:86:TYR:OH	2.29	0.46
1:UL:129:LEU:HD12	4:WK:38:PHE:HE2	1.79	0.46
1:UP:194:GLY:HA3	2:Ve:36:ILE:HG21	1.97	0.46
1:UQ:49:TRP:CE3	1:UQ:74:SER:HB3	2.50	0.46
2:Uz:153:LYS:O	2:Uz:181:ARG:NH2	2.47	0.46
4:WA:78:GLN:HE22	4:WA:89:TYR:HB2	1.80	0.46
4:WC:144:ASN:OD1	4:WC:148:ALA:N	2.43	0.46
5:Xi:193:ASN:HD22	5:cg:163:LYS:HD2	1.80	0.46
6:Xx:19:TYR:CE2	6:Xx:26:ARG:HG2	2.50	0.46
6:Xz:19:TYR:CE2	6:Xz:26:ARG:HG2	2.51	0.46
6:Xz:260:LYS:HD2	6:Xz:263:LEU:HD11	1.97	0.46
6:Xz:305:GLU:OE1	6:Xz:308:THR:N	2.42	0.46
5:Yb:99:ASN:HB3	5:Yb:102:VAL:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yd:119:ARG:HH21	5:Yd:144:ASP:HB3	1.80	0.46
5:Yj:73:GLU:O	5:Yj:77:LEU:HG	2.15	0.46
5:Yk:126:VAL:HG22	5:Yk:154:LEU:HG	1.97	0.46
5:ZD:103:LEU:HD12	5:ZD:113:ILE:HG23	1.98	0.46
5:aM:86:ILE:HD11	5:aM:118:ARG:HE	1.79	0.46
5:aa:73:GLU:O	5:aa:77:LEU:HG	2.14	0.46
5:au:86:ILE:HD11	5:au:118:ARG:HE	1.80	0.46
5:bI:103:LEU:HD12	5:bI:113:ILE:HG23	1.96	0.46
5:bM:99:ASN:O	5:bM:103:LEU:HG	2.15	0.46
5:db:112:ASP:OD1	5:db:115:GLN:NE2	2.48	0.46
5:eG:56:ASN:HB2	5:eo:146:GLU:N	2.29	0.46
5:eH:75:GLN:NE2	5:eH:79:GLU:OE1	2.45	0.46
5:eH:122:VAL:HG11	5:eH:151:LEU:HD13	1.95	0.46
5:ea:116:ALA:HB1	5:fG:55:ILE:HD13	1.97	0.46
5:ep:74:LYS:HE3	5:eq:111:LYS:HZ2	1.80	0.46
5:fT:112:ASP:OD1	5:fT:115:GLN:NE2	2.48	0.46
1:AV:66:THR:HG22	2:Bn:52:CYS:HB3	1.98	0.46
1:Ab:65:ASN:HB2	4:Hi:59:LEU:H	1.80	0.46
1:Az:19:GLU:OE1	1:Az:120:LYS:NZ	2.44	0.46
1:BH:174:LYS:O	1:BH:212:LYS:NZ	2.48	0.46
1:BT:55:ALA:O	1:BX:86:TYR:OH	2.20	0.46
1:BV:147:ASN:H	4:DH:88:HIS:HD2	1.63	0.46
1:BY:49:TRP:CZ3	1:BY:74:SER:HB3	2.50	0.46
2:CQ:63:PRO:HB2	2:CQ:85:GLU:HG2	1.97	0.46
2:Ci:75:LEU:HD22	2:Ci:84:LEU:HD13	1.97	0.46
4:Cz:144:ASN:OD1	4:Cz:148:ALA:N	2.41	0.46
1:Ep:169:VAL:HB	1:Ep:316:ILE:HA	1.97	0.46
1:Ex:31:PRO:HG3	5:IH:218:TYR:CG	2.50	0.46
1:FW:66:THR:HG22	2:Gt:52:CYS:SG	2.54	0.46
1:FY:286:ASP:HB2	1:FY:294:HIS:HB2	1.97	0.46
1:Fo:174:LYS:O	1:Fo:212:LYS:NZ	2.49	0.46
1:Ft:87:LYS:NZ	2:HK:53:THR:O	2.34	0.46
1:Fy:26:TYR:O	5:JI:218:TYR:OH	2.30	0.46
1:GB:86:TYR:OH	1:GD:55:ALA:O	2.16	0.46
1:GO:308:ARG:HH21	2:Gm:31:LEU:HB2	1.80	0.46
2:Gp:123:LEU:HD21	2:Gp:131:VAL:HG21	1.96	0.46
2:Gt:23:LYS:N	2:Gt:67:TYR:OH	2.48	0.46
2:Gw:140:ASN:OD1	2:Gw:144:GLU:N	2.42	0.46
2:HB:125:LYS:HD2	2:HB:169:ASP:HA	1.95	0.46
4:Hb:141:LEU:HD11	4:Hb:165:ALA:HB2	1.96	0.46
1:Kf:84:LEU:HD13	1:Kp:57:PRO:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kh:67:ILE:HG13	1:Ko:296:TYR:HE2	1.81	0.46
1:Ki:67:ILE:HG13	1:Km:296:TYR:HE2	1.81	0.46
1:Kk:278:LEU:HD12	5:Nu:210:TYR:CG	2.50	0.46
1:Kl:45:LYS:HE2	1:Kl:78:ARG:HD3	1.96	0.46
1:Kv:59:THR:O	2:MH:61:ASN:ND2	2.47	0.46
1:LG:62:ASN:HD21	2:Lc:102:ASP:HB2	1.81	0.46
2:Lq:71:ARG:NH1	2:Lq:142:HIS:O	2.49	0.46
2:MJ:56:LYS:HD2	2:MK:56:LYS:HA	1.97	0.46
2:MJ:77:PHE:HD2	4:Mm:138:LYS:HG3	1.79	0.46
2:MM:75:LEU:HD22	2:MM:84:LEU:HD13	1.97	0.46
3:MN:171:ARG:HG2	3:MN:190:ILE:HG22	1.96	0.46
1:Or:86:TYR:OH	1:Os:55:ALA:O	2.20	0.46
1:PD:55:ALA:HB2	2:Qa:51:VAL:HB	1.95	0.46
1:PR:205:VAL:HG12	1:PR:259:ILE:HG23	1.97	0.46
1:Pa:174:LYS:O	1:Pa:212:LYS:NZ	2.48	0.46
1:Pf:178:ASP:OD1	1:Pf:178:ASP:N	2.47	0.46
1:Pl:49:TRP:CH2	1:Pl:74:SER:HB3	2.50	0.46
1:Pt:135:LEU:HD21	1:Pt:255:LEU:HG	1.97	0.46
1:Pu:52:PHE:CZ	1:Pu:71:GLY:HA3	2.49	0.46
1:Pu:59:THR:HG21	2:Vn:107:MET:HE3	1.97	0.46
1:Px:66:THR:HG22	2:Qy:52:CYS:HB3	1.97	0.46
1:Px:135:LEU:HD21	1:Px:255:LEU:HG	1.97	0.46
2:QI:37:ASP:O	2:QI:41:GLN:NE2	2.48	0.46
2:Qj:63:PRO:HB2	2:Qj:85:GLU:HG2	1.97	0.46
4:RP:35:SER:HB2	4:RP:41:LYS:HE3	1.97	0.46
4:RR:22:MET:HB3	4:RR:23:LYS:H	1.55	0.46
4:RX:142:ILE:HD11	4:RX:152:VAL:HG23	1.97	0.46
1:TR:77:VAL:HG11	1:TR:305:LEU:HD13	1.97	0.46
1:TU:59:THR:O	4:Vu:61:ASN:ND2	2.47	0.46
1:Td:66:THR:HG22	2:Uv:52:CYS:HB3	1.98	0.46
1:Tf:165:ILE:HD13	1:Tf:191:LEU:HD12	1.97	0.46
1:Th:283:GLU:HB2	5:Wr:199:PHE:CE2	2.51	0.46
1:Ts:196:GLU:OE1	1:Ts:265:ASN:ND2	2.46	0.46
1:Tu:239:LYS:NZ	1:Tu:245:GLU:O	2.43	0.46
1:Tw:57:PRO:HB2	1:UA:84:LEU:HB3	1.98	0.46
1:UH:307:THR:HG22	4:WI:32:LEU:HB2	1.97	0.46
1:UL:84:LEU:HD13	1:UO:57:PRO:HB2	1.96	0.46
1:UO:278:LEU:HD12	5:XY:210:TYR:CG	2.50	0.46
1:UP:48:LYS:HG3	2:Ve:32:LEU:HD22	1.96	0.46
1:UZ:165:ILE:HD13	1:UZ:191:LEU:HD23	1.96	0.46
1:Ua:49:TRP:CH2	1:Ua:74:SER:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Uk:39:LEU:HD21	1:Uk:81:TYR:CE2	2.51	0.46
2:VI:140:ASN:OD1	2:VI:144:GLU:N	2.43	0.46
2:Vj:59:ILE:HG22	2:Vj:111:ILE:HG12	1.95	0.46
2:Vk:76:SER:HB3	2:Vk:87:GLU:HG2	1.97	0.46
2:Vn:132:ASN:HA	2:Vn:162:LYS:HG2	1.97	0.46
4:WH:37:GLU:HG3	4:WH:39:ARG:H	1.80	0.46
6:YC:85:THR:HA	6:YC:102:ILE:HG12	1.98	0.46
6:YH:19:TYR:CE2	6:YH:26:ARG:HG2	2.50	0.46
5:YJ:63:LEU:O	5:YJ:67:GLU:HG2	2.15	0.46
5:YO:118:ARG:O	5:YO:122:VAL:HG23	2.15	0.46
5:YV:75:GLN:O	5:YV:79:GLU:HG2	2.15	0.46
5:Yg:55:ILE:HG21	5:Yy:112:ASP:O	2.15	0.46
5:Yx:75:GLN:NE2	5:Yx:79:GLU:OE1	2.47	0.46
5:Yx:118:ARG:O	5:Yx:122:VAL:HG23	2.16	0.46
5:ZS:153:SER:HB2	5:ZT:133:ALA:HB1	1.97	0.46
5:Ze:79:GLU:O	5:Ze:83:ILE:HG12	2.14	0.46
5:Zk:79:GLU:O	5:Zk:83:ILE:HG12	2.15	0.46
5:Zq:95:SER:HB3	5:Zq:98:PHE:CE1	2.50	0.46
5:bO:55:ILE:HG21	5:bu:116:ALA:HB2	1.97	0.46
5:cC:113:ILE:O	5:cC:117:GLN:HG2	2.15	0.46
5:cQ:73:GLU:O	5:cQ:77:LEU:HG	2.14	0.46
5:cU:111:LYS:HZ2	5:cX:74:LYS:HE3	1.80	0.46
5:ca:111:LYS:HZ2	5:cd:74:LYS:HE3	1.80	0.46
5:dF:112:ASP:OD1	5:dF:115:GLN:NE2	2.48	0.46
5:dm:57:GLU:HA	5:dm:60:THR:HG22	1.97	0.46
5:ez:112:ASP:OD1	5:ez:115:GLN:NE2	2.48	0.46
5:fp:112:ASP:OD1	5:fp:115:GLN:NE2	2.48	0.46
1:AD:66:THR:HG22	4:Co:52:ARG:HB3	1.96	0.46
1:AJ:31:PRO:HG3	5:DT:218:TYR:CG	2.50	0.46
1:AQ:140:SER:HB2	1:AQ:148:GLN:HG2	1.97	0.46
1:AS:239:LYS:HA	1:AS:242:ASN:OD1	2.15	0.46
1:Ak:218:ALA:HA	1:Ak:224:ALA:HA	1.96	0.46
1:An:55:ALA:O	1:Ar:86:TYR:OH	2.24	0.46
1:Az:174:LYS:O	1:Az:212:LYS:NZ	2.49	0.46
1:BB:196:GLU:HB3	1:BB:265:ASN:HD22	1.80	0.46
1:BJ:135:LEU:HD21	1:BJ:255:LEU:HG	1.96	0.46
1:BM:49:TRP:CZ3	1:BM:74:SER:HB3	2.50	0.46
1:Ba:86:TYR:OH	1:GM:55:ALA:O	2.31	0.46
1:Bd:288:ASP:OD1	1:Bd:289:SER:N	2.41	0.46
2:Bq:23:LYS:HG3	2:Bq:24:ASN:N	2.31	0.46
2:CE:69:TYR:HB2	2:CE:101:ILE:HD12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CM:71:ARG:NH1	2:CM:142:HIS:O	2.48	0.46
1:FC:86:TYR:OH	1:FI:55:ALA:O	2.29	0.46
1:FJ:84:LEU:HD13	1:FP:57:PRO:HB2	1.97	0.46
1:FK:49:TRP:CZ3	1:FK:74:SER:HB3	2.50	0.46
1:FN:80:ASN:HD22	1:FN:154:ASN:HB2	1.81	0.46
1:Fd:57:PRO:HB2	1:Fh:84:LEU:HB3	1.98	0.46
1:Fj:55:ALA:O	1:Kb:86:TYR:OH	2.22	0.46
1:Fn:205:VAL:HG12	1:Fn:259:ILE:HG23	1.97	0.46
1:GB:49:TRP:CZ3	1:GB:74:SER:HB3	2.50	0.46
1:GN:135:LEU:HD21	1:GN:255:LEU:HG	1.98	0.46
1:GN:286:ASP:HB2	1:GN:294:HIS:HB2	1.96	0.46
2:Ga:153:LYS:HG3	2:Ga:154:SER:H	1.80	0.46
2:Gf:23:LYS:HG3	2:Gf:24:ASN:N	2.31	0.46
2:Gw:167:THR:HB	2:Gw:170:LEU:HB3	1.97	0.46
4:Hf:28:ASP:OD2	1:Jy:78:ARG:NH2	2.48	0.46
5:IU:193:ASN:HD21	5:fR:102:VAL:CG1	2.26	0.46
1:Jk:49:TRP:CZ3	1:Jk:74:SER:HB3	2.50	0.46
1:Jn:77:VAL:HG11	1:Jn:305:LEU:HD13	1.97	0.46
1:Jq:100:THR:HA	1:Jq:105:ILE:HG23	1.97	0.46
1:Jz:49:TRP:CZ3	1:Jz:74:SER:HB3	2.50	0.46
1:KA:41:MET:HE2	4:MU:111:PHE:HD2	1.80	0.46
1:KM:26:TYR:O	5:NW:218:TYR:OH	2.28	0.46
1:Kd:174:LYS:O	1:Kd:212:LYS:NZ	2.49	0.46
1:Kq:178:ASP:OD1	1:Kq:178:ASP:N	2.47	0.46
1:Ky:65:ASN:HB2	2:MA:59:ILE:H	1.80	0.46
1:LB:47:VAL:HG22	1:LB:76:VAL:HG22	1.97	0.46
1:LD:308:ARG:HH21	2:Lb:31:LEU:HB2	1.80	0.46
2:Lh:31:LEU:HB3	2:Lh:34:ASN:ND2	2.30	0.46
2:Lk:76:SER:HB3	2:Lk:87:GLU:HG2	1.97	0.46
2:ML:137:LEU:HD11	2:ML:159:ALA:HB2	1.96	0.46
4:MP:93:VAL:HG21	4:MP:117:ILE:HD11	1.97	0.46
4:MV:25:PRO:HB2	4:MV:27:HIS:CD2	2.50	0.46
1:Oa:164:GLN:HE22	1:Oa:308:ARG:HA	1.81	0.46
1:Ol:239:LYS:HA	1:Ol:242:ASN:OD1	2.15	0.46
1:Oo:49:TRP:CZ3	1:Oo:74:SER:HB3	2.50	0.46
1:Op:181:PHE:HD1	1:Op:184:ILE:HD12	1.80	0.46
1:Ot:161:MET:SD	2:QM:31:LEU:HD21	2.55	0.46
1:PF:19:GLU:HA	1:PF:120:LYS:HD3	1.97	0.46
1:PG:143:LYS:HE3	4:RQ:37:GLU:HG2	1.97	0.46
1:PK:161:MET:HE3	1:PK:306:ALA:HB3	1.96	0.46
1:PL:77:VAL:HG21	2:Ql:32:LEU:HD23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PT:110:ASN:ND2	1:Pg:62:ASN:OD1	2.48	0.46
1:PX:289:SER:HB2	1:PY:85:GLN:HE22	1.80	0.46
1:Pn:39:LEU:O	1:Pn:274:SER:OG	2.26	0.46
2:QB:180:ASN:O	2:QC:180:ASN:ND2	2.39	0.46
2:QE:64:ALA:HB2	2:QE:108:ALA:HB2	1.98	0.46
2:QG:180:ASN:ND2	4:RF:186:ASN:O	2.49	0.46
2:QN:63:PRO:HB2	2:QN:85:GLU:HB3	1.97	0.46
2:Qj:23:LYS:N	2:Qj:67:TYR:OH	2.47	0.46
2:Qv:32:LEU:HB2	1:UJ:307:THR:HG22	1.96	0.46
2:Qy:132:ASN:HA	2:Qy:162:LYS:HG2	1.97	0.46
4:RJ:149:LEU:HD13	4:RJ:181:VAL:HG21	1.96	0.46
4:Rb:149:LEU:HD13	4:Rb:181:VAL:HG21	1.97	0.46
1:TN:162:PRO:HG2	2:Up:31:LEU:HD11	1.97	0.46
1:TP:164:GLN:HE22	1:TP:308:ARG:HA	1.81	0.46
1:TZ:261:ILE:HD12	1:TZ:312:LEU:HD23	1.98	0.46
1:Tn:165:ILE:HD13	1:Tn:191:LEU:HD23	1.97	0.46
1:UH:259:ILE:HB	1:UH:314:VAL:HB	1.97	0.46
1:UI:8:TYR:CD2	1:UI:93:GLN:HG3	2.50	0.46
1:UJ:84:LEU:HD13	1:UT:57:PRO:HB2	1.96	0.46
1:UP:140:SER:HB2	1:UP:148:GLN:HG2	1.97	0.46
1:UX:80:ASN:ND2	1:UX:154:ASN:HB2	2.31	0.46
1:Ul:288:ASP:OD1	1:Ul:289:SER:N	2.41	0.46
2:VI:123:LEU:HD21	2:VI:131:VAL:HG21	1.96	0.46
2:VR:140:ASN:OD1	2:VR:144:GLU:N	2.49	0.46
6:YA:263:LEU:HD22	6:YA:269:PHE:CD1	2.50	0.46
6:YF:19:TYR:CE2	6:YF:26:ARG:HG2	2.51	0.46
5:Ye:75:GLN:O	5:Ye:79:GLU:HG2	2.14	0.46
5:Ys:130:GLN:O	5:Ys:134:ILE:HG12	2.15	0.46
5:ZB:75:GLN:NE2	5:ZB:79:GLU:OE1	2.48	0.46
5:ZD:118:ARG:O	5:ZD:122:VAL:HG23	2.15	0.46
5:ZF:103:LEU:HD12	5:ZF:113:ILE:HG23	1.98	0.46
5:ZL:122:VAL:HG11	5:ZL:151:LEU:HD13	1.97	0.46
5:ZN:76:LEU:HD22	5:ZO:76:LEU:HD21	1.97	0.46
5:ZO:55:ILE:HD11	5:ZS:98:PHE:HA	1.97	0.46
5:ZP:122:VAL:HG11	5:ZP:151:LEU:HD13	1.98	0.46
5:ZS:95:SER:HB3	5:ZS:98:PHE:HE1	1.80	0.46
5:aW:111:LYS:HZ2	5:aZ:74:LYS:HE3	1.79	0.46
5:aq:111:LYS:HZ2	5:at:74:LYS:HE3	1.79	0.46
5:bK:99:ASN:O	5:bK:103:LEU:HG	2.15	0.46
5:bV:112:ASP:OD1	5:bV:115:GLN:NE2	2.49	0.46
5:bo:55:ILE:HG21	5:cU:116:ALA:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:by:113:ILE:O	5:by:117:GLN:HG2	2.15	0.46
5:cV:112:ASP:OD1	5:cV:115:GLN:NE2	2.48	0.46
5:dl:122:VAL:HG11	5:dl:151:LEU:HD13	1.96	0.46
5:dq:57:GLU:HA	5:dq:60:THR:HG22	1.95	0.46
5:dy:55:ILE:HG23	5:eg:147:ILE:HB	1.97	0.46
5:ei:143:ILE:HG22	5:ei:143:ILE:O	2.15	0.46
1:AA:163:GLU:OE1	1:AA:308:ARG:NH1	2.48	0.46
1:AI:185:GLU:OE2	1:FF:215:LYS:HE3	2.15	0.46
1:AZ:283:GLU:HB2	5:Dj:199:PHE:CE2	2.51	0.46
1:Am:19:GLU:HA	1:Am:120:LYS:HD3	1.97	0.46
1:Ay:205:VAL:HG12	1:Ay:259:ILE:HG23	1.97	0.46
1:Az:132:HIS:HA	1:Az:254:LEU:HD13	1.97	0.46
1:BA:49:TRP:CZ3	1:BA:74:SER:HB3	2.50	0.46
1:BD:67:ILE:HG13	1:BK:296:TYR:HE2	1.81	0.46
1:BG:278:LEU:HD12	5:EQ:210:TYR:CG	2.50	0.46
1:BH:48:LYS:HG3	2:CW:32:LEU:HD22	1.96	0.46
1:BH:49:TRP:CZ3	1:BH:74:SER:HB3	2.50	0.46
1:BL:110:ASN:OD1	1:BO:62:ASN:ND2	2.47	0.46
1:BS:13:VAL:HA	1:BS:16:ILE:HG22	1.96	0.46
1:BT:49:TRP:CZ3	1:BT:74:SER:HB3	2.50	0.46
1:BW:45:LYS:HE2	1:BW:78:ARG:HD3	1.96	0.46
1:Ba:135:LEU:HD21	1:Ba:255:LEU:HG	1.96	0.46
2:Bg:32:LEU:HB2	1:Eq:307:THR:HG22	1.97	0.46
2:Br:32:LEU:HB2	1:TQ:307:THR:HG22	1.98	0.46
2:Bu:63:PRO:HB2	2:Bu:85:GLU:HB3	1.98	0.46
2:CE:23:LYS:N	2:CE:67:TYR:OH	2.48	0.46
4:Ct:59:LEU:H	1:Tj:65:ASN:HB2	1.80	0.46
4:DI:161:ILE:HA	4:DI:186:ASN:HA	1.96	0.46
1:Ew:152:LEU:HD21	2:GZ:105:SER:HA	1.97	0.46
1:FG:143:LYS:HA	2:Gf:39:ARG:HE	1.80	0.46
1:FH:239:LYS:HA	1:FH:242:ASN:OD1	2.15	0.46
1:FZ:196:GLU:OE1	1:FZ:265:ASN:ND2	2.47	0.46
1:Fg:3:LEU:HD23	2:Gv:19:GLN:HG3	1.96	0.46
1:Fg:157:GLY:N	1:Fg:160:ASN:OD1	2.38	0.46
1:Fi:282:ASN:OD1	1:Fi:283:GLU:N	2.48	0.46
1:Fm:161:MET:SD	2:HE:31:LEU:HD21	2.54	0.46
1:Fn:84:LEU:HD13	1:Fo:57:PRO:HB2	1.97	0.46
1:Fs:67:ILE:HG13	1:Fz:296:TYR:HE2	1.81	0.46
1:Fx:49:TRP:CE3	1:Fx:74:SER:HB3	2.50	0.46
1:GB:84:LEU:HD13	1:GD:57:PRO:HB2	1.97	0.46
1:GE:80:ASN:ND2	1:GE:154:ASN:HB2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GG:244:ARG:NH2	1:GJ:231:GLU:OE2	2.33	0.46
1:GJ:272:LYS:N	1:GJ:303:GLY:O	2.38	0.46
2:Gs:31:LEU:HB3	2:Gs:34:ASN:ND2	2.30	0.46
2:Gy:140:ASN:OD1	2:Gy:144:GLU:N	2.48	0.46
2:HT:75:LEU:HD22	2:HT:84:LEU:HD13	1.97	0.46
2:HU:56:LYS:HD2	2:HV:56:LYS:HA	1.97	0.46
1:Je:169:VAL:HB	1:Je:316:ILE:HA	1.97	0.46
1:Jo:256:LYS:O	1:Jo:258:LYS:HG2	2.16	0.46
1:KL:66:THR:HG22	2:Li:52:CYS:SG	2.54	0.46
1:KT:96:GLU:O	1:KT:100:THR:HG23	2.15	0.46
1:KX:272:LYS:N	1:KX:303:GLY:O	2.38	0.46
1:Kp:257:HIS:ND1	1:Kp:318:GLN:HG3	2.31	0.46
1:Kt:80:ASN:ND2	1:Kt:154:ASN:HB2	2.31	0.46
1:Kt:308:ARG:O	2:MB:34:ASN:ND2	2.44	0.46
1:LG:165:ILE:HD13	1:LG:191:LEU:HD23	1.97	0.46
1:LH:66:THR:HG22	2:MM:52:CYS:HB3	1.97	0.46
2:Lz:148:VAL:HG21	2:Lz:155:VAL:HG12	1.97	0.46
4:MZ:69:TYR:HB2	4:MZ:108:ILE:HD12	1.97	0.46
4:Md:37:GLU:HG3	4:Md:39:ARG:H	1.80	0.46
1:Oo:66:THR:HG22	2:QG:52:CYS:HB3	1.98	0.46
1:Oy:96:GLU:O	1:Oy:100:THR:HG23	2.16	0.46
1:PI:80:ASN:HB2	1:PI:155:MET:HG3	1.98	0.46
1:PI:96:GLU:O	1:PI:100:THR:HG23	2.15	0.46
1:PN:86:TYR:HD2	1:PT:70:ILE:HD11	1.80	0.46
1:PT:26:TYR:O	5:Sd:218:TYR:OH	2.23	0.46
1:PV:39:LEU:HD21	1:PV:81:TYR:CE2	2.51	0.46
1:PW:79:LEU:HD11	1:PW:305:LEU:HB2	1.97	0.46
1:PW:196:GLU:HB3	1:PW:265:ASN:HD22	1.81	0.46
1:Pg:161:MET:SD	4:RU:31:LEU:HD21	2.55	0.46
1:Pj:196:GLU:HB3	1:Pj:265:ASN:HD22	1.79	0.46
2:QN:157:ALA:HB2	2:QN:177:VAL:HG22	1.97	0.46
2:Qa:23:LYS:N	2:Qa:67:TYR:OH	2.48	0.46
4:RJ:172:ILE:HD12	4:RJ:178:LEU:HD12	1.98	0.46
4:RM:165:ALA:HA	4:RM:181:VAL:HG22	1.96	0.46
4:RO:69:TYR:HB2	4:RO:108:ILE:HD12	1.97	0.46
4:RP:77:ILE:HG12	4:RP:91:PRO:HB3	1.97	0.46
4:RW:78:GLN:HE22	4:RW:89:TYR:HB2	1.79	0.46
1:TK:67:ILE:HD12	1:TM:296:TYR:HE2	1.80	0.46
1:TX:132:HIS:HA	1:TX:254:LEU:HD13	1.97	0.46
1:Ta:239:LYS:HA	1:Ta:242:ASN:OD1	2.15	0.46
1:Tg:133:PHE:O	1:Tg:137:GLY:N	2.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ty:159:LEU:HD12	1:Ty:260:LEU:HD13	1.96	0.46
1:UG:48:LYS:HD2	4:WH:32:LEU:HD22	1.97	0.46
1:UK:317:LYS:HE2	1:UK:319:SER:HB2	1.97	0.46
1:UM:289:SER:HB2	1:UN:85:GLN:HE22	1.80	0.46
1:UQ:80:ASN:ND2	1:UQ:153:PRO:O	2.47	0.46
1:Uh:308:ARG:HH21	2:VF:31:LEU:HB2	1.80	0.46
1:Uj:178:ASP:N	1:Uj:178:ASP:OD1	2.47	0.46
2:Uu:45:PHE:HD1	2:Uu:172:ILE:HD11	1.81	0.46
2:Uv:180:ASN:ND2	4:Vu:186:ASN:O	2.49	0.46
2:Ux:137:LEU:HD11	2:Ux:159:ALA:HB2	1.98	0.46
2:VG:148:VAL:HG21	2:VG:155:VAL:HG12	1.97	0.46
2:VL:31:LEU:HB3	2:VL:34:ASN:ND2	2.30	0.46
2:VP:140:ASN:OD1	2:VP:144:GLU:N	2.42	0.46
2:VU:71:ARG:NH1	2:VU:142:HIS:O	2.48	0.46
4:Vu:141:LEU:HD11	4:Vu:165:ALA:HB2	1.96	0.46
4:Vx:133:SER:HB3	4:Vx:177:TYR:CE2	2.51	0.46
4:Vy:149:LEU:HD13	4:Vy:181:VAL:HG21	1.96	0.46
4:WG:77:ILE:HG13	4:WG:91:PRO:HB3	1.97	0.46
4:WH:127:TYR:HE1	4:WH:170:LYS:HZ3	1.64	0.46
6:YB:85:THR:HA	6:YB:102:ILE:HG12	1.98	0.46
6:YE:19:TYR:CE2	6:YE:26:ARG:HG2	2.50	0.46
6:YG:201:GLN:OE1	6:YG:251:SER:OG	2.33	0.46
5:YK:113:ILE:O	5:YK:117:GLN:HG2	2.15	0.46
5:YX:143:ILE:HG23	5:YX:147:ILE:HD12	1.97	0.46
5:Yb:83:ILE:HG23	5:Yb:114:MET:SD	2.54	0.46
5:Yu:131:ILE:HD13	5:Yu:140:ILE:HD11	1.96	0.46
5:Yv:103:LEU:HD12	5:Yv:113:ILE:HG23	1.98	0.46
5:ZA:73:GLU:O	5:ZA:77:LEU:HG	2.14	0.46
5:ZI:73:GLU:O	5:ZI:77:LEU:HG	2.15	0.46
5:ZJ:112:ASP:OD1	5:ZJ:115:GLN:NE2	2.48	0.46
5:aA:86:ILE:HD11	5:aA:118:ARG:HE	1.80	0.46
5:bs:55:ILE:HG21	5:cY:116:ALA:HB2	1.96	0.46
5:bs:113:ILE:O	5:bs:117:GLN:HG2	2.16	0.46
5:cA:113:ILE:O	5:cA:117:GLN:HG2	2.15	0.46
5:cK:111:LYS:HZ2	5:cN:74:LYS:HE3	1.79	0.46
5:co:98:PHE:HB3	5:co:117:GLN:HE22	1.80	0.46
5:dg:57:GLU:HA	5:dg:60:THR:HG22	1.96	0.46
5:dn:122:VAL:HG11	5:dn:151:LEU:HD13	1.96	0.46
5:dr:122:VAL:HG11	5:dr:151:LEU:HD13	1.96	0.46
5:eC:57:GLU:HA	5:eC:60:THR:HG22	1.96	0.46
5:eZ:136:LYS:HB2	5:eZ:136:LYS:HE3	1.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:24:ILE:HG12	1:AA:131:ASN:ND2	2.31	0.46
1:AE:55:ALA:O	1:AI:86:TYR:OH	2.27	0.46
1:AP:132:HIS:HA	1:AP:254:LEU:HD13	1.97	0.46
1:Aa:161:MET:SD	2:Bt:31:LEU:HD21	2.55	0.46
1:Aw:107:ASP:OD2	1:Aw:110:ASN:ND2	2.29	0.46
1:BD:196:GLU:HB3	1:BD:265:ASN:HD22	1.81	0.46
1:BH:49:TRP:CH2	1:BH:74:SER:HB3	2.51	0.46
1:BH:140:SER:HB2	1:BH:148:GLN:HG2	1.97	0.46
1:BK:286:ASP:HB2	1:BK:294:HIS:HB2	1.96	0.46
1:BP:148:GLN:HG3	2:CR:81:THR:O	2.14	0.46
1:BQ:33:GLN:NE2	1:BQ:269:ILE:O	2.35	0.46
1:BR:52:PHE:HB3	4:DH:41:LYS:HE2	1.97	0.46
1:BS:196:GLU:HB3	1:BS:265:ASN:HD22	1.79	0.46
1:BV:84:LEU:HD13	1:BW:57:PRO:HB2	1.98	0.46
1:Bb:59:THR:HG21	2:HU:107:MET:HE3	1.97	0.46
2:Bp:137:LEU:HD11	2:Bp:159:ALA:HB2	1.98	0.46
2:Bu:157:ALA:HB2	2:Bu:177:VAL:HG22	1.97	0.46
2:CI:69:TYR:HB2	2:CI:101:ILE:HD12	1.98	0.46
2:Cf:107:MET:HE3	1:Uj:59:THR:HG21	1.98	0.46
4:Cp:133:SER:HB3	4:Cp:177:TYR:CE2	2.51	0.46
1:FB:150:ARG:NH2	2:Gd:106:GLY:O	2.48	0.46
1:FE:132:HIS:HA	1:FE:254:LEU:HD13	1.97	0.46
1:FK:141:ILE:HD13	1:FN:55:ALA:HA	1.98	0.46
1:FM:282:ASN:HB3	1:FM:296:TYR:HB2	1.98	0.46
1:FP:84:LEU:HB3	1:GN:57:PRO:HB2	1.98	0.46
1:FY:84:LEU:HB3	1:Fb:57:PRO:HB2	1.98	0.46
1:Fb:239:LYS:NZ	1:Fb:245:GLU:O	2.43	0.46
1:Fo:132:HIS:HA	1:Fo:254:LEU:HD13	1.97	0.46
1:Fp:8:TYR:CD2	1:Fp:93:GLN:HG3	2.50	0.46
1:Fr:317:LYS:HE2	1:Fr:319:SER:HB2	1.97	0.46
1:Fs:84:LEU:HD13	1:Fv:57:PRO:HB2	1.96	0.46
1:GH:169:VAL:HB	1:GH:316:ILE:HA	1.96	0.46
1:GJ:65:ASN:HB2	2:HL:59:ILE:H	1.80	0.46
2:HE:75:LEU:HD22	2:HE:84:LEU:HD13	1.97	0.46
2:HO:23:LYS:N	2:HO:67:TYR:OH	2.48	0.46
2:HQ:56:LYS:HD2	2:HR:56:LYS:HA	1.98	0.46
4:He:133:SER:HB3	4:He:177:TYR:CE2	2.51	0.46
4:Hl:35:SER:HB2	4:Hl:41:LYS:HE3	1.97	0.46
4:Hr:23:LYS:N	4:Hr:67:TYR:OH	2.49	0.46
4:Hs:51:THR:HG21	4:Hs:180:LYS:HE3	1.97	0.46
4:Hy:149:LEU:HD13	4:Hy:181:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jm:31:PRO:HG3	5:Mw:218:TYR:CG	2.50	0.46
1:Jt:132:HIS:HA	1:Jt:254:LEU:HD13	1.97	0.46
1:Jy:84:LEU:HD13	1:KE:57:PRO:HB2	1.97	0.46
1:KE:174:LYS:O	1:KE:212:LYS:NZ	2.48	0.46
1:KY:55:ALA:O	1:PQ:86:TYR:OH	2.22	0.46
1:Ke:8:TYR:CD2	1:Ke:93:GLN:HG3	2.50	0.46
2:LQ:45:PHE:HD1	2:LQ:172:ILE:HD11	1.81	0.46
2:LW:23:LYS:HG3	2:LW:24:ASN:N	2.31	0.46
4:MT:133:SER:HB3	4:MT:177:TYR:CE2	2.51	0.46
1:Ok:261:ILE:HD12	1:Ok:312:LEU:HD23	1.98	0.46
1:PK:3:LEU:HD23	2:QZ:19:GLN:HG3	1.96	0.46
1:PM:282:ASN:OD1	1:PM:283:GLU:N	2.48	0.46
1:PY:80:ASN:ND2	1:PY:154:ASN:HB2	2.31	0.46
1:PZ:26:TYR:O	5:Sj:218:TYR:OH	2.30	0.46
1:Pa:49:TRP:CH2	1:Pa:74:SER:HB3	2.51	0.46
1:Pi:80:ASN:ND2	1:Pi:154:ASN:HB2	2.31	0.46
1:Pi:85:GLN:NE2	1:Pi:298:ASP:OD1	2.46	0.46
1:Pp:288:ASP:OD1	1:Pp:289:SER:N	2.44	0.46
1:Ps:308:ARG:HH21	2:QQ:31:LEU:HB2	1.80	0.46
1:Pv:62:ASN:ND2	2:QR:102:ASP:HB2	2.30	0.46
1:Pv:62:ASN:HD21	2:QR:102:ASP:HB2	1.81	0.46
2:QR:148:VAL:HG21	2:QR:155:VAL:HG12	1.97	0.46
2:QU:77:PHE:HD2	4:RN:138:LYS:HG3	1.79	0.46
2:Qu:56:LYS:HD2	2:Qv:56:LYS:HA	1.98	0.46
4:RL:78:GLN:HE22	4:RL:89:TYR:HB2	1.80	0.46
1:TI:24:ILE:HG12	1:TI:131:ASN:ND2	2.31	0.46
1:TQ:31:PRO:HG3	5:Wa:218:TYR:CG	2.50	0.46
1:Te:181:PHE:HD1	1:Te:184:ILE:HD12	1.80	0.46
1:Ti:84:LEU:HB3	1:Ug:57:PRO:HB2	1.98	0.46
1:Tp:129:LEU:HD11	1:Tp:139:VAL:HG13	1.97	0.46
1:Ts:218:ALA:HA	1:Ts:224:ALA:HA	1.96	0.46
1:Tx:96:GLU:O	1:Tx:100:THR:HG23	2.15	0.46
1:UP:158:LEU:HB3	1:UP:260:LEU:HD21	1.98	0.46
1:Ua:169:VAL:HB	1:Ua:316:ILE:HA	1.96	0.46
1:Ug:59:THR:O	2:VH:61:ASN:ND2	2.49	0.46
1:Uk:62:ASN:HD21	2:VG:102:ASP:HB2	1.81	0.46
1:Uk:165:ILE:HD13	1:Uk:191:LEU:HD23	1.97	0.46
2:VI:125:LYS:NZ	2:VI:169:ASP:OD1	2.38	0.46
2:VM:23:LYS:N	2:VM:67:TYR:OH	2.48	0.46
2:VO:76:SER:HB3	2:VO:87:GLU:HG2	1.97	0.46
2:Vn:56:LYS:HD2	2:Vo:56:LYS:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Vs:69:TYR:HB2	4:Vs:108:ILE:HD12	1.98	0.46
4:Vy:172:ILE:HD12	4:Vy:178:LEU:HD12	1.98	0.46
5:Wf:193:ASN:HD21	5:fh:92:ALA:HA	1.80	0.46
6:Xx:16:LEU:HG	6:Xx:20:LYS:HE3	1.98	0.46
6:Xx:85:THR:HA	6:Xx:102:ILE:HG12	1.98	0.46
6:Xy:190:LEU:O	6:Xz:269:PHE:N	2.40	0.46
6:YH:273:THR:HG22	6:YH:275:SER:H	1.79	0.46
5:Yl:128:ILE:O	5:Yl:132:LYS:HG2	2.15	0.46
5:Yp:122:VAL:HG11	5:Yp:151:LEU:HD13	1.97	0.46
5:Yr:118:ARG:O	5:Yr:122:VAL:HG23	2.16	0.46
5:ZE:113:ILE:O	5:ZE:117:GLN:HG2	2.15	0.46
5:ZW:111:LYS:HZ2	5:ZZ:74:LYS:HE3	1.81	0.46
5:ZY:153:SER:HB2	5:ZZ:133:ALA:HB1	1.97	0.46
5:Zq:79:GLU:O	5:Zq:83:ILE:HG12	2.15	0.46
5:ai:86:ILE:HD11	5:ai:118:ARG:HE	1.79	0.46
5:bK:111:LYS:HZ2	5:bN:74:LYS:HE3	1.79	0.46
5:bg:55:ILE:HG21	5:cM:116:ALA:HB2	1.98	0.46
5:bq:55:ILE:HG21	5:cW:116:ALA:HB2	1.97	0.46
5:cE:113:ILE:O	5:cE:117:GLN:HG2	2.16	0.46
5:cF:112:ASP:OD1	5:cF:115:GLN:NE2	2.48	0.46
5:dA:86:ILE:HD11	5:dA:118:ARG:HE	1.80	0.46
5:dX:75:GLN:NE2	5:dX:79:GLU:OE1	2.44	0.46
5:dp:122:VAL:HG11	5:dp:151:LEU:HD13	1.96	0.46
5:eE:136:LYS:HZ1	5:em:55:ILE:HB	1.81	0.46
5:er:112:ASP:OD1	5:er:115:GLN:NE2	2.48	0.46
5:ff:74:LYS:HE3	5:fg:111:LYS:HZ2	1.81	0.46
5:fj:112:ASP:OD1	5:fj:115:GLN:NE2	2.48	0.46
1:AZ:306:ALA:O	4:Cr:31:LEU:HB2	2.16	0.46
1:BB:307:THR:HG22	2:Vk:32:LEU:HB2	1.96	0.46
1:BH:158:LEU:HB3	1:BH:260:LEU:HD21	1.98	0.46
1:BN:52:PHE:HB3	4:DB:41:LYS:HE2	1.98	0.46
1:BS:49:TRP:CH2	1:BS:74:SER:HB3	2.50	0.46
2:CT:133:PRO:HG3	2:CT:161:SER:HA	1.98	0.46
4:Cn:22:MET:HE2	4:Cn:25:PRO:HA	1.98	0.46
1:FL:57:PRO:HB2	1:Jx:84:LEU:HB3	1.97	0.46
1:FW:129:LEU:HD11	1:FW:139:VAL:HG13	1.96	0.46
1:Fc:178:ASP:OD1	1:Fc:178:ASP:N	2.47	0.46
1:Ft:57:PRO:HB2	1:Fx:84:LEU:HD13	1.96	0.46
1:GN:87:LYS:HD3	1:GN:294:HIS:CD2	2.51	0.46
1:GS:143:LYS:HA	2:Gl:39:ARG:HD2	1.96	0.46
2:Gu:37:ASP:O	2:Gu:41:GLN:NE2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:HB:71:ARG:NH1	2:HB:142:HIS:O	2.48	0.46
2:HI:133:PRO:HG3	2:HI:161:SER:HA	1.98	0.46
1:Je:54:ASN:OD1	2:Py:47:ASN:ND2	2.43	0.46
1:Jl:152:LEU:HD21	2:LO:105:SER:HA	1.97	0.46
1:Jl:164:GLN:HE22	1:Jl:308:ARG:HA	1.81	0.46
1:KE:84:LEU:HB3	1:LC:57:PRO:HB2	1.98	0.46
1:KP:48:LYS:NZ	2:Lr:33:SER:O	2.43	0.46
1:KX:49:TRP:CZ3	1:KX:74:SER:HB3	2.51	0.46
1:KZ:81:TYR:OH	1:KZ:272:LYS:O	2.30	0.46
1:Kf:196:GLU:HB3	1:Kf:265:ASN:HD22	1.80	0.46
1:Kl:49:TRP:CH2	1:Kl:74:SER:HB3	2.51	0.46
1:Kl:158:LEU:HB3	1:Kl:260:LEU:HD21	1.98	0.46
1:LB:175:ASP:HA	1:LB:212:LYS:NZ	2.31	0.46
1:LH:288:ASP:OD1	1:LH:289:SER:N	2.41	0.46
2:LP:140:ASN:HD21	2:LP:144:GLU:HB2	1.81	0.46
2:LT:37:ASP:O	2:LT:41:GLN:NE2	2.48	0.46
2:LX:133:PRO:HG3	2:LX:161:SER:HA	1.96	0.46
2:Ly:76:SER:HB3	2:Ly:87:GLU:HG2	1.98	0.46
4:MU:172:ILE:HD12	4:MU:178:LEU:HD12	1.98	0.46
4:Ma:77:ILE:HG12	4:Ma:91:PRO:HB3	1.97	0.46
1:Pa:158:LEU:HB3	1:Pa:260:LEU:HD21	1.98	0.46
2:QM:133:PRO:HG3	2:QM:161:SER:HA	1.96	0.46
2:Qv:76:SER:HB3	2:Qv:87:GLU:HG2	1.97	0.46
2:Qv:125:LYS:HD2	2:Qv:169:ASP:HA	1.97	0.46
1:TL:41:MET:HE2	1:TL:82:LEU:HD12	1.98	0.46
1:TL:261:ILE:HD12	1:TL:312:LEU:HD23	1.97	0.46
1:Td:49:TRP:CZ3	1:Td:74:SER:HB3	2.50	0.46
1:UJ:196:GLU:HB3	1:UJ:265:ASN:HD22	1.80	0.46
1:UL:13:VAL:HA	1:UL:16:ILE:HG22	1.98	0.46
1:UL:67:ILE:HG13	1:US:296:TYR:HE2	1.81	0.46
1:UW:66:THR:HG22	2:Vi:52:CYS:HB3	1.98	0.46
1:UY:288:ASP:OD1	1:UY:289:SER:N	2.45	0.46
1:Ue:16:ILE:HD12	1:Ue:116:ALA:HB1	1.97	0.46
1:Ue:49:TRP:CZ3	1:Ue:74:SER:HB3	2.51	0.46
1:Uf:47:VAL:HG22	1:Uf:76:VAL:HG22	1.97	0.46
2:VQ:69:TYR:HB2	2:VQ:101:ILE:HD12	1.98	0.46
6:Xy:19:TYR:CE2	6:Xy:26:ARG:HG2	2.50	0.46
6:YC:263:LEU:HD13	6:YC:269:PHE:HD1	1.81	0.46
5:YJ:66:VAL:HG12	5:YX:137:VAL:HG11	1.98	0.46
5:YT:157:VAL:HA	5:YT:160:LYS:HD2	1.98	0.46
5:YW:118:ARG:O	5:YW:122:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:58:ARG:NH1	5:ZG:108:TYR:HE1	2.14	0.46
5:Yq:134:ILE:HD11	5:Yr:154:LEU:HD22	1.97	0.46
5:Yu:133:ALA:HB2	5:Yv:157:VAL:HG21	1.98	0.46
5:bu:113:ILE:O	5:bu:117:GLN:HG2	2.16	0.46
5:ee:143:ILE:HG22	5:ee:143:ILE:O	2.15	0.46
5:ej:136:LYS:HE3	5:ej:136:LYS:HB2	1.71	0.46
5:gB:112:ASP:OD1	5:gB:115:GLN:NE2	2.48	0.46
1:AI:307:THR:HG22	2:Gg:32:LEU:HB2	1.98	0.46
1:Am:239:LYS:NZ	1:Am:245:GLU:O	2.43	0.46
1:Aq:159:LEU:HD12	1:Aq:260:LEU:HD13	1.96	0.46
1:BA:8:TYR:CD2	1:BA:93:GLN:HG3	2.50	0.46
1:BB:84:LEU:HD13	1:BL:57:PRO:HB2	1.96	0.46
1:BO:173:ASP:HB3	1:BO:179:LYS:HG3	1.98	0.46
1:BQ:288:ASP:OD1	1:BQ:289:SER:N	2.45	0.46
1:BZ:255:LEU:HD22	1:BZ:258:LYS:HB2	1.97	0.46
1:Bc:62:ASN:HD21	2:By:102:ASP:HB2	1.81	0.46
2:CH:23:LYS:N	2:CH:67:TYR:OH	2.48	0.46
2:CP:75:LEU:HD22	2:CP:84:LEU:HD13	1.97	0.46
3:Cj:171:ARG:HG2	3:Cj:190:ILE:HG22	1.96	0.46
5:EC:195:VAL:CG1	5:Zj:96:ASN:OD1	2.45	0.46
1:Ep:163:GLU:OE1	1:Ep:308:ARG:NH1	2.48	0.46
1:Es:261:ILE:HD12	1:Es:312:LEU:HD23	1.97	0.46
1:FK:66:THR:HG22	2:Gc:52:CYS:HB3	1.98	0.46
1:FO:306:ALA:O	4:Hg:31:LEU:HB2	2.16	0.46
1:FT:39:LEU:O	1:FT:274:SER:OG	2.23	0.46
1:Fp:110:ASN:ND2	1:GC:62:ASN:OD1	2.48	0.46
1:Ft:67:ILE:HG13	1:Fx:296:TYR:HE2	1.81	0.46
1:Fy:66:THR:HG22	2:HG:52:CYS:HB3	1.98	0.46
1:GE:308:ARG:O	2:HM:34:ASN:ND2	2.44	0.46
1:GH:49:TRP:CH2	1:GH:74:SER:HB3	2.50	0.46
1:GK:107:ASP:OD2	1:GK:110:ASN:ND2	2.34	0.46
2:Gj:157:ALA:HB2	2:Gj:177:VAL:HG22	1.97	0.46
2:Gt:140:ASN:OD1	2:Gt:144:GLU:N	2.43	0.46
2:HJ:63:PRO:HB2	2:HJ:85:GLU:HG2	1.97	0.46
2:HK:148:VAL:HG21	2:HK:155:VAL:HG12	1.97	0.46
2:HR:125:LYS:HD2	2:HR:169:ASP:HA	1.97	0.46
4:Hr:149:LEU:HD13	4:Hr:181:VAL:HG21	1.98	0.46
1:Jg:31:PRO:HG3	5:Mq:218:TYR:CG	2.51	0.46
1:Jp:261:ILE:HD12	1:Jp:312:LEU:HD23	1.96	0.46
1:KF:65:ASN:HB2	4:RM:59:LEU:H	1.80	0.46
1:KJ:165:ILE:HD13	1:KJ:191:LEU:HD23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KR:87:LYS:NZ	4:Mb:53:THR:O	2.41	0.46
1:KT:196:GLU:HB3	1:KT:265:ASN:ND2	2.31	0.46
1:KW:78:ARG:O	1:KW:154:ASN:ND2	2.32	0.46
1:Kl:174:LYS:O	1:Kl:212:LYS:NZ	2.48	0.46
1:Ks:66:THR:HG22	2:ME:52:CYS:HB3	1.98	0.46
1:Kz:84:LEU:HD13	1:LA:57:PRO:HB2	1.98	0.46
1:LC:87:LYS:HD3	1:LC:294:HIS:CD2	2.50	0.46
1:LD:255:LEU:HD22	1:LD:258:LYS:HB2	1.97	0.46
1:LI:135:LEU:HD21	1:LI:255:LEU:HG	1.97	0.46
2:Lw:75:LEU:HD22	2:Lw:84:LEU:HD13	1.98	0.46
4:Mh:51:THR:HG21	4:Mh:180:LYS:HE3	1.97	0.46
1:Oc:31:PRO:HG3	5:Rm:218:TYR:CG	2.50	0.46
1:Oi:132:HIS:HA	1:Oi:254:LEU:HD13	1.98	0.46
1:Oj:140:SER:HB2	1:Oj:148:GLN:HG2	1.97	0.46
1:Om:87:LYS:NZ	2:QL:53:THR:O	2.35	0.46
1:Os:259:ILE:HB	1:Os:314:VAL:HB	1.98	0.46
1:Ot:84:LEU:HB3	1:Pr:57:PRO:HB2	1.98	0.46
1:PD:49:TRP:CE3	1:PD:74:SER:HB3	2.50	0.46
1:PM:96:GLU:O	1:PM:100:THR:HG23	2.16	0.46
1:PR:48:LYS:HD2	4:RS:32:LEU:HD22	1.97	0.46
1:PV:161:MET:SD	4:RW:31:LEU:HD21	2.56	0.46
2:QB:69:TYR:HB2	2:QB:101:ILE:HD12	1.98	0.46
2:QC:140:ASN:OD1	2:QC:144:GLU:N	2.49	0.46
2:QQ:156:ASN:HB3	2:QQ:178:PHE:CZ	2.51	0.46
2:QY:180:ASN:O	4:RP:186:ASN:ND2	2.49	0.46
2:Qe:56:LYS:NZ	2:Qf:55:SER:O	2.47	0.46
2:Qk:116:ASN:HD22	2:Ql:114:THR:HG1	1.61	0.46
2:Qy:56:LYS:HD2	2:Qz:56:LYS:HA	1.97	0.46
4:RI:133:SER:HB3	4:RI:177:TYR:CE2	2.51	0.46
4:RV:23:LYS:N	4:RV:67:TYR:OH	2.49	0.46
1:TP:152:LEU:HD21	2:Us:105:SER:HA	1.97	0.46
1:Tc:28:TRP:CZ3	1:Tc:135:LEU:HB2	2.51	0.46
1:Tn:143:LYS:HE3	4:WC:40:ASP:HB2	1.98	0.46
1:UH:174:LYS:O	1:UH:212:LYS:NZ	2.49	0.46
1:US:81:TYR:OH	1:US:272:LYS:O	2.33	0.46
1:UT:135:LEU:HD21	1:UT:255:LEU:HG	1.97	0.46
2:Uo:156:ASN:OD1	2:Uo:181:ARG:HG3	2.16	0.46
2:Uq:165:LYS:HE3	2:Uq:168:GLU:HA	1.98	0.46
2:Va:75:LEU:HD22	2:Va:84:LEU:HD13	1.98	0.46
4:WH:71:ARG:NH1	4:WH:146:ASP:O	2.45	0.46
4:WK:23:LYS:N	4:WK:67:TYR:OH	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WN:6:GLN:HA	4:WN:9:LYS:HD2	1.97	0.46
6:Xx:263:LEU:HD13	6:Xx:269:PHE:CD1	2.51	0.46
6:YD:19:TYR:CE2	6:YD:26:ARG:HG2	2.50	0.46
5:YN:113:ILE:O	5:YN:117:GLN:HG2	2.16	0.46
5:YO:112:ASP:OD1	5:YO:115:GLN:NE2	2.45	0.46
5:YY:99:ASN:HB3	5:YY:102:VAL:HG22	1.97	0.46
5:YY:140:ILE:HA	5:YY:143:ILE:HG22	1.97	0.46
5:Yd:118:ARG:O	5:Yd:122:VAL:HG23	2.14	0.46
5:Yd:144:ASP:HA	5:Yd:148:LEU:HB2	1.98	0.46
5:Ye:112:ASP:OD1	5:Ye:115:GLN:NE2	2.46	0.46
5:ZG:113:ILE:O	5:ZG:117:GLN:HG2	2.15	0.46
5:aS:86:ILE:HD11	5:aS:118:ARG:HE	1.81	0.46
5:aU:86:ILE:HD11	5:aU:118:ARG:HE	1.81	0.46
5:bg:86:ILE:HD11	5:bg:118:ARG:HE	1.80	0.46
5:bg:113:ILE:O	5:bg:117:GLN:HG2	2.16	0.46
5:bw:113:ILE:O	5:bw:117:GLN:HG2	2.15	0.46
5:dO:86:ILE:HD11	5:dO:118:ARG:HE	1.80	0.46
5:da:86:ILE:HD11	5:da:118:ARG:HE	1.81	0.46
5:dk:57:GLU:HA	5:dk:60:THR:HG22	1.97	0.46
5:ds:56:ASN:HD22	5:ea:145:GLY:HA3	1.80	0.46
5:eM:143:ILE:HG22	5:eM:143:ILE:O	2.15	0.46
5:fV:112:ASP:OD1	5:fV:115:GLN:NE2	2.48	0.46
5:fZ:74:LYS:HE3	5:fa:111:LYS:HZ2	1.81	0.46
1:AG:49:TRP:CZ3	1:AG:74:SER:HB3	2.51	0.46
1:AT:84:LEU:HB3	1:Te:57:PRO:HB2	1.96	0.46
1:AU:28:TRP:CZ3	1:AU:135:LEU:HB2	2.51	0.46
1:Ad:49:TRP:CZ3	1:Ad:74:SER:HB3	2.51	0.46
1:Af:96:GLU:O	1:Af:100:THR:HG23	2.16	0.46
1:An:178:ASP:N	1:An:178:ASP:OD1	2.47	0.46
1:BJ:306:ALA:O	2:CR:31:LEU:HD22	2.16	0.46
1:BO:288:ASP:OD1	1:BO:289:SER:N	2.43	0.46
1:BP:80:ASN:ND2	1:BP:154:ASN:HB2	2.31	0.46
1:BQ:67:ILE:HG13	1:Fr:296:TYR:HE2	1.81	0.46
1:BW:161:MET:HG3	2:Ce:31:LEU:HD11	1.97	0.46
2:CI:137:LEU:HD11	2:CI:159:ALA:HB2	1.97	0.46
2:Cd:23:LYS:N	2:Cd:67:TYR:OH	2.49	0.46
2:Cf:56:LYS:HD2	2:Cg:56:LYS:HA	1.97	0.46
2:Ch:102:ASP:HB2	1:GM:62:ASN:ND2	2.31	0.46
1:Er:31:PRO:HG3	5:IB:218:TYR:CG	2.51	0.46
1:Ez:256:LYS:O	1:Ez:258:LYS:HG2	2.16	0.46
1:FB:100:THR:HA	1:FB:105:ILE:HG23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FL:13:VAL:HA	1:FL:16:ILE:HG22	1.98	0.46
1:FN:86:TYR:OH	1:FO:55:ALA:O	2.20	0.46
1:FP:161:MET:SD	2:Gi:31:LEU:HD21	2.55	0.46
1:Fj:86:TYR:HD2	1:Fp:70:ILE:HD11	1.80	0.46
1:Fl:196:GLU:OE1	1:Fl:265:ASN:ND2	2.45	0.46
1:Fu:161:MET:SD	2:HS:31:LEU:HD21	2.56	0.46
1:Fy:277:MET:HA	1:Fy:300:VAL:HB	1.98	0.46
1:GN:49:TRP:CZ3	1:GN:74:SER:HB3	2.50	0.46
1:GR:62:ASN:ND2	2:Gn:102:ASP:HB2	2.30	0.46
2:GV:156:ASN:OD1	2:GV:181:ARG:HG3	2.16	0.46
2:Gj:63:PRO:HB2	2:Gj:85:GLU:HB3	1.97	0.46
2:Gz:28:ASP:OD2	1:Ka:45:LYS:NZ	2.43	0.46
2:HS:65:LYS:HD3	2:HS:87:GLU:HB3	1.98	0.46
2:HS:181:ARG:NH1	2:HT:94:LEU:O	2.48	0.46
4:Hc:22:MET:HE2	4:Hc:25:PRO:HA	1.98	0.46
4:He:140:LYS:HD3	4:He:161:ILE:HD13	1.97	0.46
4:Hn:77:ILE:HG13	4:Hn:91:PRO:HB3	1.97	0.46
1:Je:163:GLU:OE1	1:Je:308:ARG:NH1	2.48	0.46
1:KC:80:ASN:HD22	1:KC:154:ASN:HB2	1.81	0.46
1:KJ:242:ASN:ND2	1:KJ:245:GLU:HB2	2.30	0.46
1:KR:54:ASN:OD1	2:Ln:47:ASN:ND2	2.35	0.46
1:KX:163:GLU:OE2	1:KX:308:ARG:NH2	2.49	0.46
1:KY:86:TYR:HD2	1:Ke:70:ILE:HD11	1.80	0.46
1:Kg:39:LEU:HD21	1:Kg:81:TYR:CE2	2.51	0.46
1:Kj:80:ASN:ND2	1:Kj:154:ASN:HB2	2.31	0.46
1:Kj:175:ASP:HA	1:Kj:212:LYS:NZ	2.30	0.46
1:Kl:49:TRP:CZ3	1:Kl:74:SER:HB3	2.50	0.46
1:Kn:306:ALA:O	2:Lv:31:LEU:HD22	2.16	0.46
1:LA:161:MET:HG3	2:MI:31:LEU:HD11	1.97	0.46
1:LD:140:SER:HB2	1:LD:148:GLN:HG2	1.97	0.46
1:LE:169:VAL:HG22	1:LE:183:LYS:HG3	1.98	0.46
2:LO:137:LEU:HD11	2:LO:159:ALA:HB2	1.98	0.46
2:LZ:156:ASN:OD1	2:LZ:181:ARG:HB3	2.16	0.46
2:Lm:69:TYR:HB2	2:Lm:101:ILE:HD12	1.98	0.46
2:MI:75:LEU:HD22	2:MI:84:LEU:HD13	1.97	0.46
2:ML:102:ASP:HB2	1:Pq:62:ASN:ND2	2.31	0.46
4:Mc:31:LEU:HB2	1:PB:306:ALA:O	2.16	0.46
4:Mj:6:GLN:HA	4:Mj:9:LYS:HD2	1.97	0.46
4:Mj:51:THR:HG21	4:Mj:180:LYS:HE3	1.98	0.46
4:Mm:161:ILE:HA	4:Mm:186:ASN:HA	1.96	0.46
4:Mn:149:LEU:HD13	4:Mn:181:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Oa:77:VAL:HG11	1:Oa:305:LEU:HD13	1.96	0.46
1:On:28:TRP:CZ3	1:On:135:LEU:HB2	2.51	0.46
1:PF:48:LYS:HD2	4:RP:32:LEU:HD23	1.98	0.46
1:PG:317:LYS:NZ	1:PG:319:SER:OXT	2.33	0.46
1:Pe:257:HIS:ND1	1:Pe:318:GLN:HG3	2.30	0.46
1:Pm:49:TRP:CZ3	1:Pm:74:SER:HB3	2.50	0.46
1:Po:59:THR:O	2:Qu:61:ASN:ND2	2.49	0.46
1:Pp:49:TRP:CZ3	1:Pp:74:SER:HB3	2.51	0.46
1:Pp:87:LYS:NZ	2:Qy:53:THR:O	2.33	0.46
1:Pu:178:ASP:OD1	1:Pu:178:ASP:N	2.47	0.46
1:Pv:39:LEU:HD21	1:Pv:81:TYR:CE2	2.51	0.46
2:Pz:156:ASN:OD1	2:Pz:181:ARG:HG3	2.16	0.46
2:QI:137:LEU:HD11	2:QI:159:ALA:HB2	1.98	0.46
2:QW:31:LEU:HB3	2:QW:34:ASN:ND2	2.30	0.46
2:Qc:140:ASN:OD1	2:Qc:144:GLU:N	2.48	0.46
2:Qi:75:LEU:HD22	2:Qi:84:LEU:HD13	1.97	0.46
2:Qq:77:PHE:HD2	4:RX:138:LYS:HG3	1.80	0.46
2:Qs:23:LYS:N	2:Qs:67:TYR:OH	2.48	0.46
4:RV:149:LEU:HD13	4:RV:181:VAL:HG21	1.98	0.46
1:Tz:157:GLY:N	1:Tz:160:ASN:OD1	2.38	0.46
1:UH:132:HIS:HA	1:UH:254:LEU:HD13	1.97	0.46
1:Ug:87:LYS:HD3	1:Ug:294:HIS:CD2	2.50	0.46
2:Ur:140:ASN:OD1	2:Ur:144:GLU:N	2.48	0.46
2:Ux:37:ASP:O	2:Ux:41:GLN:NE2	2.48	0.46
2:VN:37:ASP:O	2:VN:41:GLN:NE2	2.48	0.46
2:VT:56:LYS:NZ	2:VU:55:SER:O	2.47	0.46
4:Vy:58:LYS:HD3	4:Vy:119:PRO:HG2	1.98	0.46
4:WG:149:LEU:HD13	4:WG:181:VAL:HG21	1.98	0.46
4:WQ:149:LEU:HD13	4:WQ:181:VAL:HG21	1.97	0.46
4:WQ:161:ILE:HA	4:WQ:186:ASN:HA	1.96	0.46
6:YA:263:LEU:HD13	6:YA:269:PHE:HB2	1.98	0.46
6:YD:16:LEU:HG	6:YD:20:LYS:HE3	1.98	0.46
6:YG:19:TYR:CE2	6:YG:26:ARG:HG2	2.51	0.46
6:YI:16:LEU:HG	6:YI:20:LYS:HE3	1.98	0.46
5:YP:68:GLU:OE2	5:YP:71:ARG:NH2	2.49	0.46
5:Yc:56:ASN:OD1	5:Yc:57:GLU:N	2.49	0.46
5:Ye:158:ASN:O	5:Ye:162:ARG:HB2	2.15	0.46
5:Yi:118:ARG:HH11	5:Yi:152:VAL:HG21	1.81	0.46
5:Yk:73:GLU:O	5:Yk:77:LEU:HG	2.16	0.46
5:ZA:56:ASN:ND2	5:Zg:141:SER:HB3	2.30	0.46
5:ZA:113:ILE:O	5:ZA:117:GLN:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZB:118:ARG:O	5:ZB:122:VAL:HG23	2.16	0.46
5:ZF:75:GLN:NE2	5:ZF:79:GLU:OE1	2.48	0.46
5:ZJ:103:LEU:HD12	5:ZJ:113:ILE:HG23	1.98	0.46
5:ZP:83:ILE:HG12	5:ZP:114:MET:HG3	1.96	0.46
5:ZP:103:LEU:HD12	5:ZP:113:ILE:HG23	1.97	0.46
5:Zh:112:ASP:OD1	5:Zh:115:GLN:NE2	2.48	0.46
5:Zi:79:GLU:O	5:Zi:83:ILE:HG12	2.16	0.46
5:Zo:79:GLU:O	5:Zo:83:ILE:HG12	2.15	0.46
5:aB:112:ASP:OD1	5:aB:115:GLN:NE2	2.49	0.46
5:aP:112:ASP:OD1	5:aP:115:GLN:NE2	2.49	0.46
5:aX:112:ASP:OD1	5:aX:115:GLN:NE2	2.49	0.46
5:al:112:ASP:OD1	5:al:115:GLN:NE2	2.49	0.46
5:aw:62:GLU:OE1	5:bc:97:HIS:NE2	2.49	0.46
5:bc:113:ILE:O	5:bc:117:GLN:HG2	2.16	0.46
5:be:113:ILE:O	5:be:117:GLN:HG2	2.16	0.46
5:bh:75:GLN:NE2	5:bh:79:GLU:OE1	2.45	0.46
5:bp:112:ASP:OD1	5:bp:115:GLN:NE2	2.49	0.46
5:bq:113:ILE:O	5:bq:117:GLN:HG2	2.16	0.46
5:ce:113:ILE:O	5:ce:117:GLN:HG2	2.16	0.46
5:cs:98:PHE:HB3	5:cs:117:GLN:HE22	1.80	0.46
5:cu:98:PHE:HB3	5:cu:117:GLN:HE22	1.80	0.46
5:dU:111:LYS:HZ2	5:dX:74:LYS:HE3	1.81	0.46
5:eA:143:ILE:HG22	5:eA:143:ILE:O	2.16	0.46
5:eM:122:VAL:HG11	5:eM:151:LEU:HD13	1.98	0.46
5:fU:116:ALA:HB1	5:gA:55:ILE:HD13	1.98	0.46
5:fZ:112:ASP:OD1	5:fZ:115:GLN:NE2	2.49	0.46
1:AD:41:MET:HE2	1:AD:82:LEU:HD12	1.98	0.46
1:AH:152:LEU:HD21	2:Bk:105:SER:HA	1.97	0.46
1:AK:256:LYS:O	1:AK:258:LYS:HG2	2.16	0.46
1:AV:141:ILE:HD13	1:AY:55:ALA:HA	1.98	0.46
1:AW:39:LEU:HD11	1:AW:81:TYR:CD2	2.41	0.46
1:Aa:84:LEU:HB3	1:BY:57:PRO:HB2	1.98	0.46
1:BX:175:ASP:HA	1:BX:212:LYS:NZ	2.31	0.46
1:BY:59:THR:O	2:Bz:61:ASN:ND2	2.49	0.46
1:BZ:140:SER:HB2	1:BZ:148:GLN:HG2	1.97	0.46
1:Bd:25:MET:HE1	1:Bd:130:ILE:HG22	1.96	0.46
1:Bd:66:THR:HG22	2:Ci:52:CYS:HB3	1.97	0.46
2:Bk:137:LEU:HD11	2:Bk:159:ALA:HB2	1.98	0.46
2:CU:32:LEU:HB2	1:UY:307:THR:HG22	1.98	0.46
4:Ct:165:ALA:HA	4:Ct:181:VAL:HG22	1.96	0.46
1:Es:41:MET:HE2	1:Es:82:LEU:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FJ:28:TRP:CZ3	1:FJ:135:LEU:HB2	2.51	0.46
1:FO:283:GLU:HB2	5:IY:199:PHE:CE2	2.50	0.46
1:FR:62:ASN:HB2	3:HY:156:TYR:CZ	2.50	0.46
1:Fi:163:GLU:OE2	1:Fi:308:ARG:NH2	2.49	0.46
1:Fm:54:ASN:ND2	2:HE:47:ASN:HD21	2.14	0.46
1:Fm:57:PRO:HB2	1:GD:84:LEU:HB3	1.97	0.46
1:Fo:259:ILE:HB	1:Fo:314:VAL:HB	1.97	0.46
1:Fq:84:LEU:HD13	1:GA:57:PRO:HB2	1.97	0.46
1:Fs:79:LEU:HD11	1:Fs:305:LEU:HB2	1.97	0.46
1:Fu:226:SER:O	1:GI:226:SER:OG	2.32	0.46
1:Fw:49:TRP:CH2	1:Fw:74:SER:HB3	2.51	0.46
1:Fx:161:MET:SD	4:Mj:31:LEU:HD21	2.56	0.46
1:GA:110:ASN:OD1	1:GD:62:ASN:ND2	2.47	0.46
1:GA:257:HIS:ND1	1:GA:318:GLN:HG3	2.31	0.46
1:GE:80:ASN:ND2	1:GE:153:PRO:O	2.32	0.46
1:GF:307:THR:HG22	2:Ly:32:LEU:HB2	1.98	0.46
1:GI:49:TRP:CZ3	1:GI:74:SER:HB3	2.50	0.46
1:GL:161:MET:HG3	2:HT:31:LEU:HD11	1.97	0.46
1:GM:175:ASP:HA	1:GM:212:LYS:NZ	2.31	0.46
1:GO:255:LEU:HD22	1:GO:258:LYS:HB2	1.97	0.46
1:GQ:164:GLN:HE22	1:GQ:308:ARG:HA	1.81	0.46
1:GT:135:LEU:HD21	1:GT:255:LEU:HG	1.97	0.46
2:Gb:45:PHE:HD1	2:Gb:172:ILE:HD11	1.81	0.46
2:Ge:37:ASP:O	2:Ge:41:GLN:NE2	2.49	0.46
2:HA:133:PRO:HG3	2:HA:161:SER:HA	1.98	0.46
2:HJ:76:SER:HB3	2:HJ:87:GLU:HG2	1.98	0.46
1:Jp:55:ALA:O	1:KA:86:TYR:OH	2.21	0.46
1:Jy:28:TRP:CZ3	1:Jy:135:LEU:HB2	2.51	0.46
1:Jz:141:ILE:HD13	1:KC:55:ALA:HA	1.98	0.46
1:KD:259:ILE:HB	1:KD:314:VAL:HB	1.98	0.46
1:KJ:143:LYS:HE3	4:MY:40:ASP:HB2	1.98	0.46
1:KQ:48:LYS:HD2	4:Ma:32:LEU:HD23	1.97	0.46
1:KR:143:LYS:HE3	4:Mb:37:GLU:HG2	1.97	0.46
1:KW:282:ASN:OD1	1:KW:283:GLU:N	2.49	0.46
1:Kh:196:GLU:HB3	1:Kh:265:ASN:HD22	1.80	0.46
1:Kn:66:THR:HG22	2:Lv:52:CYS:HB3	1.98	0.46
2:Li:69:TYR:HB2	2:Li:101:ILE:HD12	1.96	0.46
1:Oq:165:ILE:HD13	1:Oq:191:LEU:HD12	1.97	0.46
1:Oq:282:ASN:HB3	1:Oq:296:TYR:HB2	1.97	0.46
1:PE:261:ILE:HD12	1:PE:312:LEU:HD23	1.98	0.46
1:PK:178:ASP:OD1	1:PK:179:LYS:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PM:49:TRP:CZ3	1:PM:74:SER:HB3	2.51	0.46
1:PM:163:GLU:OE2	1:PM:308:ARG:NH2	2.49	0.46
1:Pv:45:LYS:NZ	4:RL:28:ASP:OD2	2.40	0.46
1:Pv:165:ILE:HD13	1:Pv:191:LEU:HD23	1.97	0.46
1:Pv:277:MET:HA	1:Pv:300:VAL:HB	1.98	0.46
2:QB:165:LYS:HE3	2:QB:168:GLU:HA	1.98	0.46
2:Ql:75:LEU:HD22	2:Ql:84:LEU:HD13	1.98	0.46
3:RC:171:ARG:HB3	3:RC:188:VAL:HG11	1.98	0.46
4:RD:127:TYR:CE1	4:RD:180:LYS:HB2	2.51	0.46
1:TI:169:VAL:HB	1:TI:316:ILE:HA	1.97	0.46
1:Tr:84:LEU:HB3	1:Tu:57:PRO:HB2	1.98	0.46
1:Tu:19:GLU:HA	1:Tu:120:LYS:HD3	1.97	0.46
1:Tv:178:ASP:OD1	1:Tv:178:ASP:N	2.47	0.46
1:Tx:80:ASN:HB2	1:Tx:155:MET:HG3	1.98	0.46
1:UG:84:LEU:HD13	1:UH:57:PRO:HB2	1.97	0.46
1:UL:79:LEU:HD11	1:UL:305:LEU:HB2	1.97	0.46
1:UM:55:ALA:O	1:UQ:86:TYR:OH	2.21	0.46
1:UP:174:LYS:O	1:UP:212:LYS:NZ	2.48	0.46
1:US:286:ASP:HB2	1:US:294:HIS:HB2	1.96	0.46
1:UT:110:ASN:OD1	1:UW:62:ASN:ND2	2.47	0.46
1:UT:257:HIS:ND1	1:UT:318:GLN:HG3	2.30	0.46
2:Ut:64:ALA:HB2	2:Ut:108:ALA:HB2	1.98	0.46
2:VF:156:ASN:HB3	2:VF:178:PHE:CZ	2.51	0.46
2:VT:133:PRO:HG3	2:VT:161:SER:HA	1.98	0.46
4:WR:78:GLN:HE22	4:WR:89:TYR:HB2	1.81	0.46
6:YB:16:LEU:HG	6:YB:20:LYS:HE3	1.98	0.46
6:YC:19:TYR:CE2	6:YC:26:ARG:HG2	2.51	0.46
6:YE:16:LEU:HG	6:YE:20:LYS:HE3	1.98	0.46
6:YE:85:THR:HA	6:YE:102:ILE:HG12	1.97	0.46
6:YE:273:THR:HG22	6:YE:275:SER:H	1.80	0.46
5:YK:59:ILE:O	5:YK:62:GLU:HG3	2.16	0.46
5:YO:131:ILE:HD13	5:YO:140:ILE:HD11	1.98	0.46
5:YQ:70:GLU:HB2	5:Yg:143:ILE:HD11	1.98	0.46
5:YQ:70:GLU:O	5:YQ:74:LYS:HG2	2.16	0.46
5:Yd:93:HIS:CD2	5:Yd:125:PHE:HZ	2.34	0.46
5:Yh:111:LYS:HZ2	5:Yi:74:LYS:HE3	1.81	0.46
5:Yk:75:GLN:O	5:Yk:79:GLU:HG2	2.15	0.46
5:Yn:103:LEU:HD12	5:Yn:113:ILE:HG23	1.98	0.46
5:Yq:94:LEU:HD11	5:Yq:121:LEU:HG	1.97	0.46
5:Yr:112:ASP:OD1	5:Yr:115:GLN:NE2	2.47	0.46
5:Yu:55:ILE:CG2	5:Zm:116:ALA:HB1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZD:131:ILE:HD13	5:ZD:140:ILE:HD11	1.96	0.46
5:ZU:79:GLU:O	5:ZU:83:ILE:HG12	2.16	0.46
5:Zt:112:ASP:OD1	5:Zt:115:GLN:NE2	2.48	0.46
5:aU:98:PHE:HB3	5:aU:117:GLN:HE22	1.81	0.46
5:be:55:ILE:HD13	5:cK:116:ALA:HB1	1.98	0.46
5:bo:98:PHE:HB3	5:bo:117:GLN:HE22	1.80	0.46
5:cl:112:ASP:OD1	5:cl:115:GLN:NE2	2.48	0.46
5:ds:55:ILE:HG23	5:ea:147:ILE:HB	1.98	0.46
5:du:54:SER:HB3	5:du:56:ASN:OD1	2.16	0.46
5:dy:143:ILE:HG22	5:dy:143:ILE:O	2.16	0.46
5:fA:98:PHE:HB3	5:fA:117:GLN:HE22	1.80	0.46
5:fF:112:ASP:OD1	5:fF:115:GLN:NE2	2.49	0.46
5:fx:112:ASP:OD1	5:fx:115:GLN:NE2	2.49	0.46
1:AC:31:PRO:HG3	5:DM:218:TYR:CG	2.51	0.46
1:AH:164:GLN:HE22	1:AH:308:ARG:HA	1.81	0.46
1:AY:80:ASN:HD22	1:AY:154:ASN:HB2	1.81	0.46
1:Ab:69:THR:HA	1:FR:87:LYS:O	2.16	0.46
1:Ao:57:PRO:HB2	1:As:84:LEU:HB3	1.97	0.46
1:Ap:80:ASN:HB2	1:Ap:155:MET:HG3	1.98	0.46
1:Ar:3:LEU:HD23	2:CG:19:GLN:HG3	1.96	0.46
1:At:49:TRP:CZ3	1:At:74:SER:HB3	2.51	0.46
1:Ax:57:PRO:HB2	1:BO:84:LEU:HB3	1.97	0.46
1:Az:259:ILE:HB	1:Az:314:VAL:HB	1.97	0.46
1:BF:80:ASN:ND2	1:BF:154:ASN:HB2	2.31	0.46
1:BI:49:TRP:CE3	1:BI:74:SER:HB3	2.50	0.46
1:BP:152:LEU:HD21	2:CR:105:SER:HA	1.99	0.46
1:Ba:169:VAL:HG22	1:Ba:183:LYS:HG3	1.98	0.46
2:CH:56:LYS:HD2	4:Cx:56:PHE:HA	1.98	0.46
2:CS:75:LEU:HD22	2:CS:84:LEU:HD13	1.98	0.46
2:Cb:56:LYS:HD2	2:Cc:56:LYS:HA	1.98	0.46
4:DI:149:LEU:HD13	4:DI:181:VAL:HG21	1.97	0.46
1:Ep:24:ILE:HG12	1:Ep:131:ASN:ND2	2.31	0.46
1:Eu:162:PRO:HG2	2:GW:31:LEU:HD11	1.97	0.46
1:Ey:31:PRO:HG3	5:II:218:TYR:CG	2.50	0.46
1:FF:54:ASN:OD1	2:GY:47:ASN:ND2	2.38	0.46
1:FL:39:LEU:HD11	1:FL:81:TYR:CD2	2.41	0.46
1:FM:165:ILE:HD13	1:FM:191:LEU:HD12	1.98	0.46
1:FU:96:GLU:O	1:FU:100:THR:HG23	2.16	0.46
1:Fj:96:GLU:O	1:Fj:100:THR:HG23	2.16	0.46
1:Fw:158:LEU:HB3	1:Fw:260:LEU:HD21	1.98	0.46
1:GF:67:ILE:HG13	1:Kg:296:TYR:HE2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GL:49:TRP:CZ3	1:GL:74:SER:HB3	2.51	0.46
1:GR:39:LEU:HD21	1:GR:81:TYR:CE2	2.51	0.46
1:GT:66:THR:HG22	2:HU:52:CYS:HB3	1.97	0.46
2:Gc:180:ASN:ND2	4:Hb:186:ASN:O	2.49	0.46
2:Gm:156:ASN:HB3	2:Gm:178:PHE:CZ	2.51	0.46
2:Gn:123:LEU:HD21	2:Gn:131:VAL:HG21	1.98	0.46
2:HS:23:LYS:N	2:HS:67:TYR:OH	2.49	0.46
2:HU:132:ASN:HA	2:HU:162:LYS:HG2	1.97	0.46
1:KA:13:VAL:HA	1:KA:16:ILE:HG22	1.98	0.46
1:KH:49:TRP:CZ3	1:KH:74:SER:HB3	2.51	0.46
1:KJ:96:GLU:O	1:KJ:100:THR:HG23	2.16	0.46
1:KW:194:GLY:HA3	2:Lw:36:ILE:HG21	1.98	0.46
1:KX:259:ILE:HB	1:KX:314:VAL:HB	1.98	0.46
1:KZ:54:ASN:OD1	2:Lj:47:ASN:ND2	2.40	0.46
1:Kd:19:GLU:OE1	1:Kd:120:LYS:NZ	2.44	0.46
1:Kn:277:MET:HA	1:Kn:300:VAL:HB	1.98	0.46
1:Kq:49:TRP:CZ3	1:Kq:74:SER:HB3	2.50	0.46
1:LF:195:ASP:H	4:Rb:36:ASN:CB	2.28	0.46
4:MO:127:TYR:CE1	4:MO:180:LYS:HB2	2.51	0.46
4:MR:37:GLU:HG3	4:MR:38:PHE:H	1.81	0.46
4:Mm:149:LEU:HD13	4:Mm:181:VAL:HG21	1.97	0.46
1:OV:261:ILE:HD12	1:OV:312:LEU:HD23	1.98	0.46
1:Oy:165:ILE:HD13	1:Oy:191:LEU:HD23	1.97	0.46
1:PA:55:ALA:O	1:PE:86:TYR:OH	2.27	0.46
1:PQ:54:ASN:ND2	2:Qi:47:ASN:HD21	2.14	0.46
1:PS:174:LYS:O	1:PS:212:LYS:NZ	2.49	0.46
1:PY:161:MET:SD	2:Qw:31:LEU:HD21	2.56	0.46
1:PY:175:ASP:HA	1:PY:212:LYS:NZ	2.30	0.46
2:Qd:28:ASP:OD2	1:UE:45:LYS:NZ	2.43	0.46
4:RW:51:THR:HG21	4:RW:180:LYS:HE3	1.97	0.46
1:TY:87:LYS:NZ	2:Uz:53:THR:O	2.39	0.46
1:Tb:79:LEU:HD11	1:Tb:305:LEU:HB2	1.98	0.46
1:UB:163:GLU:OE2	1:UB:308:ARG:NH2	2.49	0.46
1:UF:54:ASN:ND2	2:VX:47:ASN:HD21	2.14	0.46
1:UN:161:MET:SD	2:Vl:31:LEU:HD21	2.56	0.46
1:Ud:59:THR:O	2:Vj:61:ASN:ND2	2.49	0.46
1:Ui:169:VAL:HG22	1:Ui:183:LYS:HG3	1.98	0.46
2:VD:156:ASN:OD1	2:VD:181:ARG:HB3	2.16	0.46
2:VG:123:LEU:HD21	2:VG:131:VAL:HG21	1.98	0.46
2:VU:75:LEU:HB3	2:VU:84:LEU:HD11	1.96	0.46
2:VX:75:LEU:HD22	2:VX:84:LEU:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Vv:64:PHE:CZ	4:Vv:108:ILE:HD11	2.51	0.46
4:Vz:25:PRO:HB2	4:Vz:27:HIS:CD2	2.50	0.46
4:WE:51:THR:HG23	4:WE:126:GLY:HA2	1.98	0.46
6:YB:273:THR:HG22	6:YB:275:SER:H	1.80	0.46
6:YF:35:ASP:OD2	6:YF:329:TYR:OH	2.20	0.46
6:YG:195:GLU:OE1	6:YG:275:SER:OG	2.27	0.46
5:YR:113:ILE:O	5:YR:117:GLN:HG2	2.16	0.46
5:YZ:73:GLU:O	5:YZ:77:LEU:HG	2.16	0.46
5:Yb:131:ILE:HD13	5:Yb:140:ILE:HD11	1.98	0.46
5:Ye:94:LEU:HD11	5:Ye:121:LEU:HG	1.97	0.46
5:Yz:103:LEU:HD12	5:Yz:113:ILE:HG23	1.98	0.46
5:ZJ:118:ARG:O	5:ZJ:122:VAL:HG23	2.16	0.46
5:ZL:79:GLU:O	5:ZL:83:ILE:HG13	2.16	0.46
5:ZR:112:ASP:OD1	5:ZR:115:GLN:NE2	2.49	0.46
5:ZY:94:LEU:HD13	5:ZY:120:GLU:OE1	2.16	0.46
5:Ze:119:ARG:HB3	5:Ze:123:ARG:NH1	2.31	0.46
5:Zs:55:ILE:HD13	5:aY:116:ALA:HB1	1.97	0.46
5:ah:112:ASP:OD1	5:ah:115:GLN:NE2	2.48	0.46
5:bK:113:ILE:O	5:bK:117:GLN:HG2	2.16	0.46
5:bR:112:ASP:OD1	5:bR:115:GLN:NE2	2.48	0.46
5:ba:98:PHE:HB3	5:ba:117:GLN:HE22	1.81	0.46
5:bq:98:PHE:HB3	5:bq:117:GLN:HE22	1.81	0.46
5:dw:143:ILE:HG22	5:dw:143:ILE:O	2.16	0.46
5:dz:112:ASP:OD1	5:dz:115:GLN:NE2	2.48	0.46
5:eL:112:ASP:OD1	5:eL:115:GLN:NE2	2.49	0.46
5:eO:143:ILE:HG22	5:eO:143:ILE:O	2.16	0.46
5:ej:112:ASP:OD1	5:ej:115:GLN:NE2	2.49	0.46
1:AJ:77:VAL:HG11	1:AJ:305:LEU:HD13	1.97	0.45
1:AR:143:LYS:HA	2:Bq:39:ARG:HE	1.80	0.45
1:AW:13:VAL:HA	1:AW:16:ILE:HG22	1.98	0.45
1:AX:282:ASN:HB3	1:AX:296:TYR:HB2	1.98	0.45
1:Ae:65:ASN:HB2	2:CD:59:ILE:H	1.82	0.45
1:Af:143:LYS:HE3	4:Cu:40:ASP:HB2	1.98	0.45
1:Aj:286:ASP:HB2	1:Aj:294:HIS:HB2	1.97	0.45
1:Ao:196:GLU:HB3	1:Ao:265:ASN:ND2	2.32	0.45
1:Ax:54:ASN:ND2	2:CP:47:ASN:HD21	2.14	0.45
1:BD:79:LEU:HD11	1:BD:305:LEU:HB2	1.97	0.45
1:BJ:41:MET:HE3	1:BJ:82:LEU:HD12	1.99	0.45
1:BJ:66:THR:HG22	2:CR:52:CYS:HB3	1.98	0.45
1:BJ:277:MET:HA	1:BJ:300:VAL:HB	1.98	0.45
1:BU:65:ASN:HB2	2:CW:59:ILE:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BY:41:MET:HE3	1:BY:82:LEU:HD12	1.98	0.45
1:BY:87:LYS:HD3	1:BY:294:HIS:CD2	2.50	0.45
2:Bg:156:ASN:OD1	2:Bg:181:ARG:HG3	2.16	0.45
2:CJ:140:ASN:OD1	2:CJ:144:GLU:N	2.48	0.45
3:Cj:171:ARG:HB3	3:Cj:188:VAL:HG11	1.98	0.45
4:Cq:172:ILE:HD12	4:Cq:178:LEU:HD12	1.98	0.45
4:DE:36:ASN:HD22	1:GB:195:ASP:H	1.64	0.45
1:FT:65:ASN:HB2	2:Gs:59:ILE:H	1.81	0.45
1:Fb:84:LEU:HB3	1:Fe:57:PRO:HB2	1.99	0.45
1:Fn:239:LYS:NZ	1:Fn:245:GLU:O	2.43	0.45
1:Fq:81:TYR:OH	1:Fq:272:LYS:O	2.29	0.45
1:Fs:13:VAL:HA	1:Fs:16:ILE:HG22	1.98	0.45
1:GL:16:ILE:HD12	1:GL:116:ALA:HB1	1.97	0.45
1:GN:59:THR:O	2:Go:61:ASN:ND2	2.49	0.45
2:Gh:23:LYS:HG3	2:Gh:24:ASN:N	2.31	0.45
2:Gj:167:THR:HG22	2:Gj:168:GLU:H	1.82	0.45
2:Gx:137:LEU:HD11	2:Gx:159:ALA:HB2	1.98	0.45
2:HX:75:LEU:HD22	2:HX:84:LEU:HD13	1.97	0.45
4:Hf:33:SER:OG	1:Jy:75:GLU:OE2	2.28	0.45
4:Hm:37:GLU:HG3	4:Hm:39:ARG:H	1.81	0.45
1:Je:24:ILE:HG12	1:Je:131:ASN:ND2	2.31	0.45
1:Jm:307:THR:HG22	2:QK:32:LEU:HB2	1.98	0.45
1:Jt:66:THR:HG22	4:MR:52:ARG:HB3	1.98	0.45
1:KD:77:VAL:HG13	4:MV:29:ALA:O	2.16	0.45
1:Kh:13:VAL:HA	1:Kh:16:ILE:HG22	1.98	0.45
1:Ks:33:GLN:NE2	1:Ks:269:ILE:O	2.45	0.45
1:Kz:59:THR:O	2:MF:61:ASN:ND2	2.49	0.45
1:LA:49:TRP:CH2	1:LA:74:SER:HB3	2.51	0.45
1:LC:41:MET:HE3	1:LC:82:LEU:HD12	1.98	0.45
1:LC:80:ASN:HB2	1:LC:155:MET:HG3	1.99	0.45
1:LF:164:GLN:HE22	1:LF:308:ARG:HA	1.82	0.45
1:LG:157:GLY:N	1:LG:160:ASN:OD1	2.46	0.45
2:LR:180:ASN:ND2	4:MQ:186:ASN:O	2.49	0.45
2:Lj:37:ASP:O	2:Lj:41:GLN:NE2	2.48	0.45
2:Ls:140:ASN:HD21	2:Ls:144:GLU:HB2	1.81	0.45
4:MO:69:TYR:HB2	4:MO:108:ILE:HD12	1.98	0.45
4:MR:22:MET:HE2	4:MR:25:PRO:HA	1.98	0.45
4:Mg:23:LYS:N	4:Mg:67:TYR:OH	2.49	0.45
4:Mg:149:LEU:HD13	4:Mg:181:VAL:HG21	1.98	0.45
1:OV:31:PRO:HG3	5:Rf:218:TYR:CG	2.51	0.45
1:OV:67:ILE:HD12	1:OX:296:TYR:HE2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ol:197:PHE:HD2	1:Ol:243:ASN:HB2	1.81	0.45
1:Op:107:ASP:OD2	1:Op:110:ASN:ND2	2.28	0.45
1:Ou:201:MET:HE3	1:Ou:201:MET:HB3	1.90	0.45
1:PL:282:ASN:OD1	1:PL:283:GLU:N	2.49	0.45
1:PU:84:LEU:HD13	1:Pe:57:PRO:HB2	1.97	0.45
1:Po:84:LEU:HD13	1:Pp:57:PRO:HB2	1.98	0.45
1:Ps:140:SER:HB2	1:Ps:148:GLN:HG2	1.98	0.45
2:QE:140:ASN:HD21	2:QE:144:GLU:HB2	1.81	0.45
2:Qb:137:LEU:HD11	2:Qb:159:ALA:HB2	1.97	0.45
2:Qf:71:ARG:NH1	2:Qf:142:HIS:O	2.48	0.45
2:Qm:133:PRO:HG3	2:Qm:161:SER:HA	1.97	0.45
4:RG:64:PHE:CZ	4:RG:108:ILE:HD11	2.51	0.45
4:RK:25:PRO:HB2	4:RK:27:HIS:CD2	2.50	0.45
1:TY:140:SER:HB2	1:TY:148:GLN:HG2	1.97	0.45
1:Tc:84:LEU:HD13	1:Ti:57:PRO:HB2	1.97	0.45
1:Tg:54:ASN:HB3	2:VC:51:VAL:HG12	1.98	0.45
1:Tk:57:PRO:HB2	1:Tm:84:LEU:HB3	1.98	0.45
1:Tl:49:TRP:CZ3	1:Tl:74:SER:HB3	2.51	0.45
1:Tq:196:GLU:HB3	1:Tq:265:ASN:HD22	1.82	0.45
1:UP:49:TRP:CH2	1:UP:74:SER:HB3	2.51	0.45
1:UX:308:ARG:O	2:Vf:34:ASN:ND2	2.44	0.45
1:Ug:135:LEU:HD21	1:Ug:255:LEU:HG	1.98	0.45
1:Uh:255:LEU:HD22	1:Uh:258:LYS:HB2	1.97	0.45
2:Ut:140:ASN:HD21	2:Ut:144:GLU:HB2	1.81	0.45
2:VB:133:PRO:HG3	2:VB:161:SER:HA	1.96	0.45
4:WE:77:ILE:HG12	4:WE:91:PRO:HB3	1.97	0.45
6:YF:320:ASN:HB3	6:YF:368:GLN:HE22	1.80	0.45
5:YP:63:LEU:O	5:YP:67:GLU:HG2	2.16	0.45
5:YQ:67:GLU:OE1	5:Yg:143:ILE:HG13	2.16	0.45
5:Yi:99:ASN:HB3	5:Yi:102:VAL:HG22	1.97	0.45
5:Yk:94:LEU:HD11	5:Yk:121:LEU:HG	1.98	0.45
5:Yt:103:LEU:HD12	5:Yt:113:ILE:HG23	1.98	0.45
5:Yz:72:ILE:O	5:Yz:76:LEU:HG	2.15	0.45
5:ZD:112:ASP:OD1	5:ZD:115:GLN:NE2	2.48	0.45
5:ZQ:79:GLU:O	5:ZQ:83:ILE:HG12	2.16	0.45
5:aP:122:VAL:HG11	5:aP:151:LEU:HD13	1.98	0.45
5:az:112:ASP:OD1	5:az:115:GLN:NE2	2.49	0.45
5:bI:86:ILE:HD11	5:bI:118:ARG:HE	1.80	0.45
5:bL:112:ASP:OD1	5:bL:115:GLN:NE2	2.49	0.45
5:bM:113:ILE:O	5:bM:117:GLN:HG2	2.16	0.45
5:bi:55:ILE:HD13	5:cO:116:ALA:HB1	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bi:86:ILE:HD11	5:bi:118:ARG:HE	1.81	0.45
5:bm:113:ILE:O	5:bm:117:GLN:HG2	2.17	0.45
5:cB:112:ASP:OD1	5:cB:115:GLN:NE2	2.49	0.45
5:cU:113:ILE:O	5:cU:117:GLN:HG2	2.16	0.45
5:ca:113:ILE:O	5:ca:117:GLN:HG2	2.15	0.45
5:dT:112:ASP:OD1	5:dT:115:GLN:NE2	2.49	0.45
5:dm:54:SER:HB3	5:dm:56:ASN:OD1	2.16	0.45
5:dp:136:LYS:HB2	5:dp:136:LYS:HE3	1.77	0.45
5:eE:56:ASN:HD22	5:em:145:GLY:HA3	1.81	0.45
5:eF:112:ASP:OD1	5:eF:115:GLN:NE2	2.49	0.45
5:eG:54:SER:HB3	5:eG:56:ASN:OD1	2.16	0.45
5:eG:143:ILE:HG22	5:eG:143:ILE:O	2.16	0.45
5:eO:57:GLU:HA	5:eO:60:THR:HG22	1.97	0.45
5:ek:94:LEU:HD11	5:ek:121:LEU:HG	1.97	0.45
5:em:79:GLU:O	5:em:83:ILE:HG12	2.16	0.45
1:AC:67:ILE:HD12	1:AE:296:TYR:HE2	1.80	0.45
1:AW:181:PHE:HD1	1:AW:184:ILE:HD12	1.80	0.45
1:Ac:87:LYS:O	1:Tj:69:THR:HA	2.17	0.45
1:Ai:306:ALA:O	4:WG:31:LEU:HB2	2.16	0.45
1:Aj:84:LEU:HB3	1:Am:57:PRO:HB2	1.98	0.45
1:At:259:ILE:HB	1:At:314:VAL:HB	1.98	0.45
1:BN:89:ARG:HH21	1:BN:112:LEU:HD21	1.81	0.45
1:BQ:307:THR:HG22	2:HJ:32:LEU:HB2	1.98	0.45
1:BW:49:TRP:CH2	1:BW:74:SER:HB3	2.51	0.45
1:BX:62:ASN:ND2	2:Vp:102:ASP:HB2	2.31	0.45
1:Ba:65:ASN:HB2	2:Cc:59:ILE:H	1.81	0.45
1:Bb:164:GLN:HE22	1:Bb:308:ARG:HA	1.81	0.45
1:Bb:278:LEU:HD12	5:El:210:TYR:CG	2.52	0.45
2:Bs:23:LYS:HG3	2:Bs:24:ASN:N	2.31	0.45
2:Bv:156:ASN:OD1	2:Bv:181:ARG:HB3	2.16	0.45
4:Cn:37:GLU:HG3	4:Cn:38:PHE:H	1.81	0.45
4:Cy:149:LEU:HD13	4:Cy:181:VAL:HG21	1.98	0.45
4:DC:149:LEU:HD13	4:DC:181:VAL:HG21	1.98	0.45
1:Ew:164:GLN:HE22	1:Ew:308:ARG:HA	1.81	0.45
1:FH:152:LEU:HD21	2:Gi:105:SER:HA	1.98	0.45
1:FR:169:VAL:HB	1:FR:316:ILE:HA	1.98	0.45
1:Fb:39:LEU:O	1:Fb:274:SER:OG	2.29	0.45
1:Fd:165:ILE:H	1:Fd:165:ILE:HD12	1.82	0.45
1:GC:89:ARG:HH21	1:GC:112:LEU:HD21	1.81	0.45
1:GE:152:LEU:HD21	2:HG:105:SER:HA	1.99	0.45
1:GK:59:THR:O	2:HQ:61:ASN:ND2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GP:39:LEU:O	1:GP:274:SER:OG	2.26	0.45
1:GP:169:VAL:HG22	1:GP:183:LYS:HG3	1.98	0.45
1:GQ:278:LEU:HD12	5:Ja:210:TYR:CG	2.52	0.45
1:GS:66:THR:HG22	2:HX:52:CYS:HB3	1.97	0.45
2:Gp:140:ASN:OD1	2:Gp:144:GLU:N	2.43	0.45
2:HD:140:ASN:HD21	2:HD:144:GLU:HB2	1.81	0.45
2:HJ:156:ASN:HB3	2:HJ:178:PHE:CZ	2.52	0.45
4:HZ:127:TYR:CE1	4:HZ:180:LYS:HB2	2.51	0.45
4:Hx:149:LEU:HD13	4:Hx:181:VAL:HG21	1.97	0.45
1:Jj:162:PRO:HG2	2:LL:31:LEU:HD11	1.97	0.45
1:KB:165:ILE:HD13	1:KB:191:LEU:HD12	1.97	0.45
1:KD:146:LYS:HB3	4:MW:88:HIS:HD2	1.80	0.45
1:KT:80:ASN:HB2	1:KT:155:MET:HG3	1.98	0.45
1:Kj:161:MET:SD	2:MH:31:LEU:HD21	2.56	0.45
1:Kt:85:GLN:NE2	1:Kt:298:ASP:OD1	2.46	0.45
1:Ku:67:ILE:HG13	1:PV:296:TYR:HE2	1.81	0.45
1:LI:66:THR:HG22	2:MJ:52:CYS:HB3	1.97	0.45
2:LK:32:LEU:HB2	1:OU:307:THR:HG22	1.97	0.45
2:LK:156:ASN:OD1	2:LK:181:ARG:HG3	2.16	0.45
2:LP:64:ALA:HB2	2:LP:108:ALA:HB2	1.98	0.45
2:Ln:140:ASN:OD1	2:Ln:144:GLU:N	2.48	0.45
2:MH:23:LYS:N	2:MH:67:TYR:OH	2.49	0.45
4:Mg:161:ILE:HA	4:Mg:186:ASN:HA	1.98	0.45
1:OU:87:LYS:NZ	2:QA:53:THR:O	2.41	0.45
1:Ol:24:ILE:HG12	1:Ol:131:ASN:HD22	1.81	0.45
1:Oq:24:ILE:HG12	1:Oq:131:ASN:ND2	2.32	0.45
1:Os:283:GLU:HB2	5:SC:199:PHE:CE2	2.51	0.45
1:Ov:57:PRO:HB2	1:Ox:84:LEU:HB3	1.98	0.45
1:PG:80:ASN:ND2	1:PG:153:PRO:O	2.33	0.45
1:PP:196:GLU:OE1	1:PP:265:ASN:ND2	2.45	0.45
1:PR:239:LYS:NZ	1:PR:245:GLU:O	2.43	0.45
1:PU:196:GLU:HB3	1:PU:265:ASN:HD22	1.80	0.45
1:Pb:163:GLU:HB3	1:Pb:308:ARG:HG3	1.99	0.45
1:Pe:80:ASN:ND2	1:Pe:154:ASN:HB2	2.31	0.45
1:Pe:135:LEU:HD21	1:Pe:255:LEU:HG	1.97	0.45
1:Ph:33:GLN:NE2	1:Ph:269:ILE:O	2.45	0.45
1:Pj:307:THR:HG22	2:Vc:32:LEU:HB2	1.98	0.45
1:Pn:272:LYS:N	1:Pn:303:GLY:O	2.38	0.45
1:Pp:49:TRP:CH2	1:Pp:74:SER:HB3	2.51	0.45
1:Pp:257:HIS:CE1	1:Pp:318:GLN:HG3	2.51	0.45
1:Pt:169:VAL:HG22	1:Pt:183:LYS:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Qa:56:LYS:HD2	4:RQ:56:PHE:HA	1.98	0.45
4:RO:162:ASN:HB3	4:RO:184:PHE:CE2	2.52	0.45
1:Tf:13:VAL:HA	1:Tf:16:ILE:HG22	1.98	0.45
1:Th:146:LYS:HB3	4:WA:88:HIS:HD2	1.81	0.45
1:Tm:26:TYR:O	5:Ww:218:TYR:OH	2.30	0.45
1:UC:96:GLU:O	1:UC:100:THR:HG23	2.16	0.45
1:UJ:33:GLN:NE2	1:UJ:269:ILE:O	2.38	0.45
1:UJ:86:TYR:OH	1:UT:55:ALA:O	2.23	0.45
1:UJ:133:PHE:O	1:UJ:137:GLY:N	2.41	0.45
1:UL:196:GLU:HB3	1:UL:265:ASN:HD22	1.81	0.45
1:Ud:84:LEU:HD13	1:Ue:57:PRO:HB2	1.98	0.45
1:Ud:107:ASP:OD2	1:Ud:110:ASN:ND2	2.34	0.45
1:Uj:164:GLN:HE22	1:Uj:308:ARG:HA	1.81	0.45
1:Ul:239:LYS:HA	1:Ul:242:ASN:OD1	2.17	0.45
2:Vd:148:VAL:HG21	2:Vd:155:VAL:HG12	1.97	0.45
2:Vl:65:LYS:HD3	2:Vl:87:GLU:HB3	1.98	0.45
4:WD:162:ASN:HB3	4:WD:184:PHE:CE2	2.52	0.45
4:WK:149:LEU:HD13	4:WK:181:VAL:HG21	1.98	0.45
6:YA:19:TYR:CE2	6:YA:26:ARG:HG2	2.51	0.45
6:YI:205:SER:HB2	6:YI:245:LEU:CD2	2.46	0.45
5:YR:88:THR:HA	5:YR:91:LYS:HD2	1.97	0.45
5:YW:99:ASN:HB3	5:YW:102:VAL:HG22	1.97	0.45
5:Yd:99:ASN:HB3	5:Yd:102:VAL:HG22	1.97	0.45
5:Yl:72:ILE:O	5:Yl:76:LEU:HG	2.17	0.45
5:Ym:131:ILE:HD13	5:Ym:140:ILE:HD11	1.97	0.45
5:Yu:73:GLU:O	5:Yu:77:LEU:HG	2.16	0.45
5:Yx:122:VAL:HG11	5:Yx:151:LEU:HD13	1.97	0.45
5:ZI:94:LEU:HD11	5:ZI:121:LEU:HG	1.98	0.45
5:ZM:57:GLU:HA	5:ZM:60:THR:HG22	1.98	0.45
5:ZU:131:ILE:HD13	5:ZU:140:ILE:HD11	1.98	0.45
5:Zo:95:SER:HB3	5:Zo:98:PHE:CE1	2.51	0.45
5:Zo:103:LEU:HD12	5:Zo:113:ILE:HG23	1.98	0.45
5:aW:86:ILE:HD11	5:aW:118:ARG:HE	1.81	0.45
5:ae:113:ILE:O	5:ae:117:GLN:HG2	2.17	0.45
5:bi:113:ILE:O	5:bi:117:GLN:HG2	2.17	0.45
5:bo:113:ILE:O	5:bo:117:GLN:HG2	2.17	0.45
5:dL:112:ASP:OD1	5:dL:115:GLN:NE2	2.49	0.45
5:dM:111:LYS:HZ2	5:dP:74:LYS:HE3	1.81	0.45
5:dX:112:ASP:OD1	5:dX:115:GLN:NE2	2.49	0.45
5:eC:55:ILE:HG23	5:ek:147:ILE:HB	1.97	0.45
5:eK:55:ILE:HG23	5:eM:147:ILE:CG1	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eK:143:ILE:HG22	5:eK:143:ILE:O	2.17	0.45
5:eO:116:ALA:HB1	5:eu:55:ILE:HD13	1.98	0.45
5:eZ:74:LYS:HE3	5:ea:111:LYS:HZ1	1.80	0.45
5:eo:79:GLU:O	5:eo:83:ILE:HG12	2.16	0.45
5:eq:75:GLN:O	5:eq:79:GLU:HG2	2.17	0.45
5:fW:116:ALA:HB1	5:gC:55:ILE:HD13	1.98	0.45
1:AA:169:VAL:HB	1:AA:316:ILE:HA	1.97	0.45
1:AB:307:THR:HG22	2:Uo:32:LEU:HB2	1.97	0.45
1:AN:80:ASN:HD22	1:AN:154:ASN:HB2	1.82	0.45
1:AY:54:ASN:HB3	2:Bu:51:VAL:HG12	1.98	0.45
1:Ai:196:GLU:HB3	1:Ai:265:ASN:HD22	1.82	0.45
1:As:282:ASN:OD1	1:As:283:GLU:N	2.50	0.45
1:At:282:ASN:OD1	1:At:283:GLU:N	2.48	0.45
2:CW:125:LYS:NZ	2:CW:169:ASP:OD1	2.45	0.45
2:Cd:181:ARG:NH1	2:Ce:94:LEU:O	2.48	0.45
4:Cz:133:SER:HB3	4:Cz:177:TYR:CE1	2.52	0.45
1:Ey:77:VAL:HG11	1:Ey:305:LEU:HD13	1.97	0.45
1:FH:197:PHE:HD2	1:FH:243:ASN:HB2	1.81	0.45
1:Fa:261:ILE:HD12	1:Fa:312:LEU:HD23	1.98	0.45
1:Fc:87:LYS:NZ	4:Hm:53:THR:O	2.41	0.45
1:Fh:77:VAL:HG21	2:HH:32:LEU:HD23	1.98	0.45
1:Fh:282:ASN:OD1	1:Fh:283:GLU:N	2.49	0.45
1:Ft:289:SER:HB2	1:Fu:85:GLN:HE22	1.80	0.45
1:Fy:306:ALA:O	2:HG:31:LEU:HD22	2.16	0.45
1:GA:80:ASN:ND2	1:GA:154:ASN:HB2	2.31	0.45
1:GC:57:PRO:HB2	1:GE:84:LEU:HB3	1.99	0.45
1:GG:21:LYS:NZ	1:Kf:195:ASP:OD2	2.49	0.45
1:GK:84:LEU:HD13	1:GL:57:PRO:HB2	1.98	0.45
2:Ga:64:ALA:HB2	2:Ga:108:ALA:HB2	1.98	0.45
2:HN:76:SER:HB3	2:HN:87:GLU:HG2	1.98	0.45
4:Hf:172:ILE:HD12	4:Hf:178:LEU:HD12	1.98	0.45
1:KD:26:TYR:O	5:NN:218:TYR:OH	2.30	0.45
1:KG:62:ASN:HB2	3:MN:156:TYR:CZ	2.51	0.45
1:KO:196:GLU:OE1	1:KO:265:ASN:ND2	2.46	0.45
1:KP:261:ILE:HD12	1:KP:312:LEU:HD23	1.98	0.45
1:KQ:84:LEU:HB3	1:KT:57:PRO:HB2	1.98	0.45
1:Kk:66:THR:HG22	4:Mg:52:ARG:HB3	1.98	0.45
1:Ku:307:THR:HG22	2:Qn:32:LEU:HB2	1.98	0.45
1:Kv:86:TYR:OH	1:PU:55:ALA:O	2.23	0.45
1:Kv:244:ARG:NH2	1:Ky:231:GLU:OE2	2.33	0.45
1:LA:16:ILE:HD12	1:LA:116:ALA:HB1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LG:277:MET:HA	1:LG:300:VAL:HB	1.98	0.45
2:Ls:165:LYS:HE3	2:Ls:168:GLU:HA	1.98	0.45
2:Lt:75:LEU:HD22	2:Lt:84:LEU:HD13	1.97	0.45
4:MT:140:LYS:HD3	4:MT:161:ILE:HD13	1.98	0.45
4:MZ:162:ASN:HB3	4:MZ:184:PHE:CE2	2.52	0.45
4:Ma:35:SER:HB2	4:Ma:41:LYS:HE3	1.97	0.45
4:Mb:37:GLU:HG3	4:Mb:39:ARG:H	1.82	0.45
1:OW:41:MET:HE2	1:OW:82:LEU:HD12	1.98	0.45
1:Oi:66:THR:HG22	4:RG:52:ARG:HB3	1.98	0.45
1:On:84:LEU:HD13	1:Ot:57:PRO:HB2	1.97	0.45
1:Op:13:VAL:HA	1:Op:16:ILE:HG22	1.98	0.45
1:PG:54:ASN:OD1	2:Qc:47:ASN:ND2	2.35	0.45
1:PH:196:GLU:HB3	1:PH:265:ASN:ND2	2.32	0.45
1:PI:112:LEU:HD12	1:PI:112:LEU:HA	1.83	0.45
1:PW:67:ILE:HG13	1:Pd:296:TYR:HE2	1.81	0.45
1:Pc:306:ALA:O	2:Qk:31:LEU:HD22	2.16	0.45
1:Pl:26:TYR:O	5:Sv:218:TYR:OH	2.25	0.45
1:Pr:87:LYS:HD3	1:Pr:294:HIS:CD2	2.50	0.45
2:QN:167:THR:HG22	2:QN:168:GLU:H	1.82	0.45
4:RY:51:THR:HG21	4:RY:180:LYS:HE3	1.98	0.45
1:TV:80:ASN:HD22	1:TV:154:ASN:HB2	1.82	0.45
1:Ta:24:ILE:HG12	1:Ta:131:ASN:HD22	1.81	0.45
1:Td:141:ILE:HD13	1:Tg:55:ALA:HA	1.98	0.45
1:Tr:286:ASP:HB2	1:Tr:294:HIS:HB2	1.97	0.45
1:UA:66:THR:OG1	4:WJ:58:LYS:NZ	2.50	0.45
1:UB:282:ASN:OD1	1:UB:283:GLU:N	2.48	0.45
1:US:55:ALA:O	1:UV:86:TYR:OH	2.19	0.45
1:UV:161:MET:SD	4:WJ:31:LEU:HD21	2.56	0.45
1:Ud:306:ALA:O	4:WO:31:LEU:HB2	2.16	0.45
1:Ug:80:ASN:HB2	1:Ug:155:MET:HG3	1.99	0.45
6:Xy:16:LEU:HG	6:Xy:20:LYS:HE3	1.98	0.45
6:YA:13:ILE:HG21	6:YA:167:LEU:HB3	1.98	0.45
6:YB:201:GLN:HB3	6:YB:248:LEU:HD22	1.97	0.45
6:YC:195:GLU:O	6:YC:199:GLN:HG3	2.16	0.45
6:YH:305:GLU:OE1	6:YH:308:THR:N	2.43	0.45
6:YI:19:TYR:CE2	6:YI:26:ARG:HG2	2.51	0.45
5:YR:68:GLU:OE2	5:YR:71:ARG:NH2	2.47	0.45
5:Yp:72:ILE:O	5:Yp:76:LEU:HG	2.16	0.45
5:ZB:103:LEU:HD12	5:ZB:113:ILE:HG23	1.98	0.45
5:aE:113:ILE:O	5:aE:117:GLN:HG2	2.17	0.45
5:aH:112:ASP:OD1	5:aH:115:GLN:NE2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:aO:111:LYS:HZ2	5:aR:74:LYS:HE3	1.81	0.45
5:bk:113:ILE:O	5:bk:117:GLN:HG2	2.16	0.45
5:cN:122:VAL:HG11	5:cN:151:LEU:HD13	1.98	0.45
5:cq:86:ILE:HD11	5:cq:118:ARG:HE	1.81	0.45
5:dP:112:ASP:OD1	5:dP:115:GLN:NE2	2.49	0.45
5:dp:112:ASP:OD1	5:dp:115:GLN:NE2	2.49	0.45
5:eS:79:GLU:O	5:eS:83:ILE:HG12	2.17	0.45
5:eU:79:GLU:O	5:eU:83:ILE:HG12	2.17	0.45
5:en:112:ASP:OD1	5:en:115:GLN:NE2	2.49	0.45
5:ey:75:GLN:O	5:ey:79:GLU:HG2	2.17	0.45
5:fU:75:GLN:O	5:fU:79:GLU:HG2	2.17	0.45
5:fz:122:VAL:HG11	5:fz:151:LEU:HD13	1.98	0.45
1:Af:205:VAL:HG12	1:Af:259:ILE:HG23	1.98	0.45
1:Al:261:ILE:HD12	1:Al:312:LEU:HD23	1.98	0.45
1:Ap:196:GLU:HB3	1:Ap:265:ASN:ND2	2.31	0.45
1:At:96:GLU:O	1:At:100:THR:HG23	2.16	0.45
1:Av:81:TYR:OH	1:Av:272:LYS:O	2.30	0.45
1:BF:161:MET:SD	2:Cd:31:LEU:HD21	2.56	0.45
1:BH:65:ASN:ND2	4:DD:57:ASP:O	2.49	0.45
1:BL:161:MET:SD	2:CT:31:LEU:HD21	2.57	0.45
1:BN:57:PRO:HB2	1:BP:84:LEU:HB3	1.99	0.45
1:BN:157:GLY:N	1:BN:160:ASN:OD1	2.50	0.45
1:BO:66:THR:HG22	2:Ca:52:CYS:HB3	1.98	0.45
1:BS:67:ILE:HG13	1:BZ:296:TYR:HE2	1.82	0.45
1:BT:259:ILE:HB	1:BT:314:VAL:HB	1.98	0.45
1:BY:80:ASN:HB2	1:BY:155:MET:HG3	1.99	0.45
1:Bc:39:LEU:HD21	1:Bc:81:TYR:CE2	2.51	0.45
2:By:123:LEU:HD21	2:By:131:VAL:HG21	1.98	0.45
4:Cv:162:ASN:HB3	4:Cv:184:PHE:CE2	2.52	0.45
4:Cw:28:ASP:N	4:Cw:28:ASP:OD1	2.45	0.45
4:DJ:78:GLN:HE22	4:DJ:89:TYR:HB2	1.81	0.45
1:Er:67:ILE:HD12	1:Et:296:TYR:HE2	1.80	0.45
1:FI:165:ILE:HD13	1:FI:191:LEU:HD23	1.99	0.45
1:FL:181:PHE:HD1	1:FL:184:ILE:HD12	1.80	0.45
1:FU:143:LYS:HE3	4:Hj:40:ASP:HB2	1.98	0.45
1:Fi:96:GLU:O	1:Fi:100:THR:HG23	2.16	0.45
1:Fr:194:GLY:HA3	4:Hs:36:ASN:OD1	2.16	0.45
1:Fw:140:SER:HB2	1:Fw:148:GLN:HG2	1.97	0.45
1:GL:257:HIS:CE1	1:GL:318:GLN:HG3	2.51	0.45
1:GM:47:VAL:HG22	1:GM:76:VAL:HG22	1.97	0.45
1:GR:165:ILE:HD13	1:GR:191:LEU:HD23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GY:140:ASN:OD1	2:GY:144:GLU:N	2.49	0.45
3:HY:171:ARG:HB3	3:HY:188:VAL:HG11	1.98	0.45
1:Jg:67:ILE:HD12	1:Ji:296:TYR:HE2	1.80	0.45
1:KJ:205:VAL:HG12	1:KJ:259:ILE:HG23	1.98	0.45
1:KW:57:PRO:HB2	1:Kd:84:LEU:HD13	1.99	0.45
1:KW:77:VAL:HG21	2:Lw:32:LEU:HD23	1.98	0.45
1:KY:96:GLU:O	1:KY:100:THR:HG23	2.16	0.45
1:Kn:196:GLU:HB3	1:Kn:265:ASN:ND2	2.32	0.45
1:LA:257:HIS:CE1	1:LA:318:GLN:HG3	2.51	0.45
1:LE:86:TYR:OH	1:Pq:55:ALA:O	2.31	0.45
1:LF:59:THR:HG21	2:Qy:107:MET:HE3	1.97	0.45
2:LU:23:LYS:HG3	2:LU:24:ASN:N	2.31	0.45
2:Le:123:LEU:HD21	2:Le:131:VAL:HG21	1.96	0.45
2:MF:56:LYS:HD2	2:MG:56:LYS:HA	1.98	0.45
2:MJ:132:ASN:HA	2:MJ:162:LYS:HG2	1.97	0.45
4:Ma:51:THR:HG23	4:Ma:126:GLY:HA2	1.98	0.45
1:OZ:49:TRP:CZ3	1:OZ:74:SER:HB3	2.51	0.45
1:Om:79:LEU:HD11	1:Om:305:LEU:HB2	1.98	0.45
1:Oo:141:ILE:HD13	1:Or:55:ALA:HA	1.98	0.45
1:Oy:205:VAL:HG12	1:Oy:259:ILE:HG23	1.98	0.45
1:PH:165:ILE:H	1:PH:165:ILE:HD12	1.82	0.45
1:PI:196:GLU:HB3	1:PI:265:ASN:ND2	2.31	0.45
1:Pa:91:LEU:HD21	1:Pa:112:LEU:HD13	1.99	0.45
1:Pc:41:MET:HE3	1:Pc:82:LEU:HD12	1.99	0.45
1:Pc:66:THR:HG22	2:Qk:52:CYS:HB3	1.98	0.45
1:Pc:196:GLU:HB3	1:Pc:265:ASN:ND2	2.32	0.45
1:Pr:59:THR:O	2:QS:61:ASN:ND2	2.49	0.45
1:Ps:81:TYR:OH	1:Ps:272:LYS:O	2.22	0.45
1:Pu:164:GLN:HE22	1:Pu:308:ARG:HA	1.81	0.45
1:Pv:157:GLY:N	1:Pv:160:ASN:OD1	2.46	0.45
2:QY:183:ILE:H	4:RP:189:MET:HA	1.80	0.45
2:Qb:69:TYR:HB2	2:Qb:101:ILE:HD12	1.98	0.45
2:Qn:76:SER:HB3	2:Qn:87:GLU:HG2	1.98	0.45
1:TT:59:THR:O	4:Vy:61:ASN:ND2	2.50	0.45
1:TZ:143:LYS:HA	2:Uy:39:ARG:HE	1.80	0.45
1:Ta:137:GLY:HA3	1:Ta:160:ASN:OD1	2.17	0.45
1:Tk:66:THR:HG22	2:VJ:52:CYS:SG	2.57	0.45
1:Tk:80:ASN:HB2	1:Tk:155:MET:HG3	1.99	0.45
1:Tq:174:LYS:O	1:Tq:212:LYS:NZ	2.49	0.45
1:Uf:13:VAL:HA	1:Uf:16:ILE:HG22	1.99	0.45
1:Ui:65:ASN:HB2	2:Vk:59:ILE:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Uj:201:MET:HE3	1:Uj:201:MET:HB3	1.88	0.45
1:Ul:66:THR:HG22	2:Vq:52:CYS:HB3	1.97	0.45
2:VP:56:LYS:HD2	4:WF:56:PHE:HA	1.98	0.45
2:VQ:137:LEU:HD11	2:VQ:159:ALA:HB2	1.97	0.45
2:VX:59:ILE:HG22	2:VX:111:ILE:HG12	1.99	0.45
2:Vb:133:PRO:HG3	2:Vb:161:SER:HA	1.97	0.45
6:YB:19:TYR:CE2	6:YB:26:ARG:HG2	2.51	0.45
5:YQ:60:THR:HG23	5:Yg:147:ILE:HG12	1.99	0.45
5:YT:118:ARG:HB3	5:YT:152:VAL:HG11	1.99	0.45
5:YW:119:ARG:HE	5:YW:144:ASP:HB3	1.80	0.45
5:Ye:77:LEU:O	5:Ye:81:GLU:HG2	2.17	0.45
5:Yr:103:LEU:HD12	5:Yr:113:ILE:HG23	1.97	0.45
5:Yt:72:ILE:O	5:Yt:76:LEU:HG	2.16	0.45
5:Yt:118:ARG:O	5:Yt:122:VAL:HG23	2.16	0.45
5:Yv:112:ASP:OD1	5:Yv:115:GLN:NE2	2.49	0.45
5:Yw:113:ILE:O	5:Yw:117:GLN:HG2	2.15	0.45
5:ZD:74:LYS:HE3	5:ZE:111:LYS:HZ2	1.82	0.45
5:ZN:103:LEU:HD12	5:ZN:113:ILE:HG23	1.98	0.45
5:ZX:112:ASP:OD1	5:ZX:115:GLN:NE2	2.49	0.45
5:aO:86:ILE:HD11	5:aO:118:ARG:HE	1.80	0.45
5:aR:112:ASP:OD1	5:aR:115:GLN:NE2	2.48	0.45
5:ai:113:ILE:O	5:ai:117:GLN:HG2	2.16	0.45
5:aw:111:LYS:HZ2	5:az:74:LYS:HE3	1.81	0.45
5:bI:113:ILE:O	5:bI:117:GLN:HG2	2.17	0.45
5:bQ:79:GLU:O	5:bQ:83:ILE:HG12	2.17	0.45
5:bW:111:LYS:HZ2	5:bZ:74:LYS:HE3	1.81	0.45
5:bf:122:VAL:HG11	5:bf:151:LEU:HD13	1.98	0.45
5:bg:55:ILE:HD13	5:cM:116:ALA:HB1	1.98	0.45
5:bn:112:ASP:OD1	5:bn:115:GLN:NE2	2.49	0.45
5:cS:86:ILE:HD11	5:cS:118:ARG:HE	1.82	0.45
5:cV:122:VAL:HG11	5:cV:151:LEU:HD13	1.98	0.45
5:cW:113:ILE:O	5:cW:117:GLN:HG2	2.16	0.45
5:cY:113:ILE:O	5:cY:117:GLN:HG2	2.16	0.45
5:cw:113:ILE:O	5:cw:117:GLN:HG2	2.16	0.45
5:dW:113:ILE:O	5:dW:117:GLN:HG2	2.17	0.45
5:dY:86:ILE:HD11	5:dY:118:ARG:HE	1.81	0.45
5:ds:131:ILE:HD13	5:ds:140:ILE:HD11	1.99	0.45
5:dv:112:ASP:OD1	5:dv:115:GLN:NE2	2.49	0.45
5:eB:136:LYS:HE3	5:eB:136:LYS:HB2	1.78	0.45
5:eC:56:ASN:HD22	5:ek:145:GLY:HA3	1.82	0.45
5:eE:55:ILE:HG23	5:em:147:ILE:CG1	2.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eQ:79:GLU:O	5:eQ:83:ILE:HG12	2.16	0.45
5:eQ:116:ALA:HB1	5:ew:55:ILE:HD13	1.98	0.45
5:eW:79:GLU:O	5:eW:83:ILE:HG12	2.17	0.45
5:em:143:ILE:HG22	5:em:143:ILE:O	2.15	0.45
5:eo:94:LEU:HD11	5:eo:121:LEU:HG	1.98	0.45
5:ff:122:VAL:HG11	5:ff:151:LEU:HD13	1.98	0.45
5:fs:113:ILE:O	5:fs:117:GLN:HG2	2.17	0.45
5:fw:75:GLN:O	5:fw:79:GLU:HG2	2.17	0.45
5:fy:113:ILE:O	5:fy:117:GLN:HG2	2.17	0.45
1:AR:174:LYS:O	1:AR:212:LYS:NZ	2.50	0.45
1:AU:49:TRP:CE3	1:Tf:113:LEU:HD11	2.52	0.45
1:AU:75:GLU:OE2	4:Vy:33:SER:OG	2.33	0.45
1:Am:84:LEU:HB3	1:Ap:57:PRO:HB2	1.98	0.45
1:An:317:LYS:NZ	1:An:319:SER:OXT	2.34	0.45
1:BE:289:SER:HB2	1:BF:85:GLN:HE22	1.80	0.45
1:BL:205:VAL:HG12	1:BL:259:ILE:HG23	1.98	0.45
1:BN:49:TRP:CE3	1:BN:74:SER:HB3	2.52	0.45
2:Bq:62:TYR:HE1	4:Co:52:ARG:HH12	1.65	0.45
2:Cf:132:ASN:HA	2:Cf:162:LYS:HG2	1.97	0.45
4:Cs:78:GLN:HE22	4:Cs:89:TYR:HB2	1.80	0.45
4:DC:23:LYS:N	4:DC:67:TYR:OH	2.49	0.45
4:DD:144:ASN:OD1	4:DD:148:ALA:N	2.42	0.45
1:FB:84:LEU:HB3	1:FE:57:PRO:HB2	1.99	0.45
1:FE:261:ILE:HD12	1:FE:312:LEU:HD23	1.98	0.45
1:FH:24:ILE:HG12	1:FH:131:ASN:HD22	1.81	0.45
1:FI:79:LEU:HD11	1:FI:305:LEU:HB2	1.98	0.45
1:FL:107:ASP:OD2	1:FL:110:ASN:ND2	2.28	0.45
1:FM:13:VAL:HA	1:FM:16:ILE:HG22	1.98	0.45
1:FM:24:ILE:HG12	1:FM:131:ASN:ND2	2.32	0.45
1:Fi:49:TRP:CZ3	1:Fi:74:SER:HB3	2.51	0.45
1:Fu:80:ASN:ND2	1:Fu:154:ASN:HB2	2.31	0.45
1:GC:52:PHE:HB3	4:Hq:41:LYS:HE2	1.98	0.45
1:GO:49:TRP:CZ3	1:GO:74:SER:HB3	2.52	0.45
1:GP:135:LEU:HD21	1:GP:255:LEU:HG	1.97	0.45
1:GR:62:ASN:HD21	2:Gn:102:ASP:HB2	1.81	0.45
1:GR:277:MET:HA	1:GR:300:VAL:HB	1.98	0.45
2:GZ:137:LEU:HD11	2:GZ:159:ALA:HB2	1.98	0.45
2:Ge:137:LEU:HD11	2:Ge:159:ALA:HB2	1.98	0.45
4:Hc:64:PHE:CZ	4:Hc:108:ILE:HD11	2.51	0.45
4:Hl:51:THR:HG23	4:Hl:126:GLY:HA2	1.98	0.45
4:Hs:43:VAL:O	4:Hs:43:VAL:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jw:165:ILE:HD13	1:Jw:191:LEU:HD23	1.99	0.45
1:KA:181:PHE:HD1	1:KA:184:ILE:HD12	1.80	0.45
1:KF:69:THR:HA	1:Ov:87:LYS:O	2.16	0.45
1:KX:282:ASN:OD1	1:KX:283:GLU:N	2.48	0.45
1:Kb:54:ASN:ND2	2:Lt:47:ASN:HD21	2.14	0.45
1:Kc:87:LYS:NZ	4:Me:53:THR:O	2.42	0.45
1:Kl:91:LEU:HD21	1:Kl:112:LEU:HD13	1.99	0.45
1:Kl:307:THR:HG22	2:MA:32:LEU:HB2	1.99	0.45
1:Ku:91:LEU:HD21	1:Ku:112:LEU:HD13	1.99	0.45
1:LH:239:LYS:HA	1:LH:242:ASN:OD1	2.17	0.45
2:LM:69:TYR:HB2	2:LM:101:ILE:HD12	1.98	0.45
2:LY:167:THR:HG22	2:LY:168:GLU:H	1.82	0.45
2:Lt:59:ILE:HG22	2:Lt:111:ILE:HG12	1.99	0.45
2:Ly:156:ASN:HB3	2:Ly:178:PHE:CZ	2.52	0.45
2:MH:65:LYS:HD3	2:MH:87:GLU:HB3	1.98	0.45
1:Oq:13:VAL:HA	1:Oq:16:ILE:HG22	1.98	0.45
1:Ow:20:VAL:O	5:SG:213:ARG:NH2	2.34	0.45
1:PB:178:ASP:OD1	1:PB:179:LYS:N	2.50	0.45
1:PX:175:ASP:HA	1:PX:212:LYS:NZ	2.32	0.45
1:Pa:65:ASN:ND2	4:RW:57:ASP:O	2.50	0.45
1:Ph:173:ASP:HB3	1:Ph:179:LYS:HG3	1.98	0.45
1:Pj:258:LYS:HZ2	1:Pj:315:ASN:HB2	1.82	0.45
1:Pq:13:VAL:HA	1:Pq:16:ILE:HG22	1.99	0.45
2:QJ:23:LYS:HG3	2:QJ:24:ASN:N	2.31	0.45
2:QR:123:LEU:HD21	2:QR:131:VAL:HG21	1.98	0.45
2:Qw:23:LYS:N	2:Qw:67:TYR:OH	2.49	0.45
3:RC:180:ILE:HG12	3:RC:203:TYR:CE1	2.52	0.45
4:RN:144:ASN:OD1	4:RN:148:ALA:N	2.43	0.45
4:RR:149:LEU:HD13	4:RR:181:VAL:HG21	1.98	0.45
4:Rc:78:GLN:HE22	4:Rc:89:TYR:HB2	1.81	0.45
1:TK:31:PRO:HG3	5:WU:218:TYR:CG	2.51	0.45
1:TW:24:ILE:HG12	1:TW:131:ASN:ND2	2.32	0.45
1:TY:211:LEU:O	1:TY:214:VAL:HG22	2.17	0.45
1:Tb:165:ILE:HD13	1:Tb:191:LEU:HD23	1.99	0.45
1:Tw:13:VAL:HA	1:Tw:16:ILE:HG22	1.99	0.45
1:Tx:196:GLU:HB3	1:Tx:265:ASN:ND2	2.31	0.45
1:UM:67:ILE:HG13	1:UQ:296:TYR:HE2	1.81	0.45
1:UN:80:ASN:ND2	1:UN:154:ASN:HB2	2.31	0.45
1:UR:41:MET:HE3	1:UR:82:LEU:HD12	1.99	0.45
1:UR:277:MET:HA	1:UR:300:VAL:HB	1.98	0.45
1:UR:306:ALA:O	2:VZ:31:LEU:HD22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UV:49:TRP:CE3	1:UV:74:SER:HB3	2.52	0.45
1:Uj:278:LEU:HD12	5:Xt:210:TYR:CG	2.52	0.45
2:Ut:123:LEU:HD13	2:Ut:173:VAL:HG11	1.99	0.45
2:VC:167:THR:HG22	2:VC:168:GLU:H	1.82	0.45
4:WF:37:GLU:HG3	4:WF:39:ARG:H	1.82	0.45
4:WH:133:SER:HB3	4:WH:177:TYR:CE1	2.52	0.45
4:WR:149:LEU:HD13	4:WR:181:VAL:HG21	1.98	0.45
6:YA:197:LEU:HD22	6:YG:270:TYR:CZ	2.51	0.45
5:YP:119:ARG:HG2	5:YP:140:ILE:HG22	1.99	0.45
5:YU:94:LEU:HD11	5:YU:121:LEU:HG	1.98	0.45
5:YU:113:ILE:O	5:YU:117:GLN:HG2	2.16	0.45
5:YV:59:ILE:HG13	5:Ym:98:PHE:CZ	2.52	0.45
5:Yf:118:ARG:O	5:Yf:122:VAL:HG23	2.17	0.45
5:Yg:75:GLN:O	5:Yg:79:GLU:HG2	2.17	0.45
5:Yw:73:GLU:O	5:Yw:77:LEU:HG	2.16	0.45
5:ZA:75:GLN:O	5:ZA:79:GLU:HG2	2.17	0.45
5:ZF:118:ARG:O	5:ZF:122:VAL:HG23	2.17	0.45
5:Zl:112:ASP:OD1	5:Zl:115:GLN:NE2	2.49	0.45
5:Zm:79:GLU:O	5:Zm:83:ILE:HG12	2.16	0.45
5:Zu:79:GLU:O	5:Zu:83:ILE:HG12	2.17	0.45
5:aG:113:ILE:O	5:aG:117:GLN:HG2	2.17	0.45
5:aS:111:LYS:HZ2	5:aV:74:LYS:HE3	1.81	0.45
5:aY:111:LYS:HZ1	5:ab:74:LYS:HE3	1.80	0.45
5:ai:62:GLU:OE1	5:bO:97:HIS:NE2	2.50	0.45
5:aj:122:VAL:HG11	5:aj:151:LEU:HD13	1.98	0.45
5:aq:113:ILE:O	5:aq:117:GLN:HG2	2.16	0.45
5:ar:75:GLN:NE2	5:ar:79:GLU:OE1	2.45	0.45
5:ar:112:ASP:OD1	5:ar:115:GLN:NE2	2.49	0.45
5:bG:113:ILE:O	5:bG:117:GLN:HG2	2.17	0.45
5:bK:79:GLU:O	5:bK:83:ILE:HG12	2.17	0.45
5:bW:62:GLU:OE1	5:cC:97:HIS:NE2	2.50	0.45
5:bY:111:LYS:HZ2	5:bb:74:LYS:HE3	1.81	0.45
5:bu:79:GLU:O	5:bu:83:ILE:HG12	2.17	0.45
5:cF:122:VAL:HG11	5:cF:151:LEU:HD13	1.99	0.45
5:cH:122:VAL:HG11	5:cH:151:LEU:HD13	1.98	0.45
5:cJ:112:ASP:OD1	5:cJ:115:GLN:NE2	2.49	0.45
5:cQ:113:ILE:O	5:cQ:117:GLN:HG2	2.17	0.45
5:cS:113:ILE:O	5:cS:117:GLN:HG2	2.17	0.45
5:ci:113:ILE:O	5:ci:117:GLN:HG2	2.16	0.45
5:cm:113:ILE:O	5:cm:117:GLN:HG2	2.16	0.45
5:da:113:ILE:O	5:da:117:GLN:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dg:54:SER:HB3	5:dg:56:ASN:OD1	2.17	0.45
5:du:59:ILE:O	5:du:63:LEU:HD23	2.17	0.45
5:eI:63:LEU:HD11	5:er:136:LYS:HD2	1.99	0.45
5:ed:136:LYS:HB2	5:ed:136:LYS:HE3	1.71	0.45
5:ef:136:LYS:HE3	5:ef:136:LYS:HB2	1.71	0.45
5:eo:75:GLN:O	5:eo:79:GLU:HG2	2.17	0.45
5:fC:113:ILE:O	5:fC:117:GLN:HG2	2.17	0.45
5:fE:113:ILE:O	5:fE:117:GLN:HG2	2.17	0.45
5:fR:112:ASP:OD1	5:fR:115:GLN:NE2	2.48	0.45
5:fw:113:ILE:O	5:fw:117:GLN:HG2	2.17	0.45
5:fy:75:GLN:O	5:fy:79:GLU:HG2	2.17	0.45
1:AM:100:THR:HA	1:AM:105:ILE:HG23	1.98	0.45
1:Ac:62:ASN:HB2	3:Cj:156:TYR:CZ	2.51	0.45
1:Ai:57:PRO:HB2	1:Ty:84:LEU:HB3	1.98	0.45
1:BD:13:VAL:HA	1:BD:16:ILE:HG22	1.98	0.45
1:BE:175:ASP:HA	1:BE:212:LYS:NZ	2.32	0.45
1:BL:16:ILE:HD11	1:BL:120:LYS:HE3	1.99	0.45
1:BS:66:THR:HG22	2:Ch:52:CYS:HB3	1.99	0.45
1:BT:49:TRP:CH2	1:BT:74:SER:HB3	2.51	0.45
1:BV:59:THR:O	2:Cb:61:ASN:ND2	2.49	0.45
1:BX:13:VAL:HA	1:BX:16:ILE:HG22	1.99	0.45
1:BX:47:VAL:HG22	1:BX:76:VAL:HG22	1.97	0.45
1:BX:49:TRP:CZ3	1:BX:74:SER:HB3	2.52	0.45
1:BX:317:LYS:HE2	1:BX:319:SER:HB2	1.99	0.45
1:BZ:49:TRP:CZ3	1:BZ:74:SER:HB3	2.52	0.45
1:Bb:257:HIS:CE1	1:Bb:318:GLN:HG3	2.52	0.45
1:Bc:277:MET:HA	1:Bc:300:VAL:HB	1.98	0.45
1:Be:87:LYS:NZ	4:Cs:53:THR:O	2.44	0.45
2:Bi:69:TYR:HB2	2:Bi:101:ILE:HD12	1.98	0.45
2:Bl:123:LEU:HD13	2:Bl:173:VAL:HG11	1.99	0.45
2:Bp:125:LYS:HD2	2:Bp:169:ASP:HA	1.98	0.45
2:CO:140:ASN:HD21	2:CO:144:GLU:HB2	1.82	0.45
2:CU:156:ASN:HB3	2:CU:178:PHE:CZ	2.52	0.45
3:Cj:104:LYS:H	3:Cj:162:ASN:ND2	2.15	0.45
4:Cm:141:LEU:HD11	4:Cm:165:ALA:HB2	1.96	0.45
4:Cq:58:LYS:HD3	4:Cq:119:PRO:HG2	1.98	0.45
1:Er:96:GLU:O	1:Er:100:THR:HG23	2.17	0.45
1:FK:21:LYS:NZ	1:FN:195:ASP:OD2	2.36	0.45
1:FP:13:VAL:HA	1:FP:16:ILE:HG22	1.99	0.45
1:FV:41:MET:HE3	1:FV:83:LYS:HB3	1.98	0.45
1:Fw:307:THR:HG22	2:HL:32:LEU:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fy:41:MET:HE3	1:Fy:82:LEU:HD12	1.99	0.45
1:GD:33:GLN:NE2	1:GD:269:ILE:O	2.45	0.45
1:GF:91:LEU:HD21	1:GF:112:LEU:HD13	1.99	0.45
1:GH:66:THR:HG22	2:HW:52:CYS:HB3	1.99	0.45
1:GI:55:ALA:O	1:GM:86:TYR:OH	2.20	0.45
1:GP:65:ASN:HB2	2:HR:59:ILE:H	1.81	0.45
1:GQ:59:THR:HG21	2:MJ:107:MET:HE3	1.97	0.45
1:GQ:195:ASP:H	4:Mm:36:ASN:CB	2.30	0.45
2:HE:59:ILE:HG22	2:HE:111:ILE:HG12	1.99	0.45
2:HH:75:LEU:HD22	2:HH:84:LEU:HD13	1.98	0.45
2:HU:77:PHE:HD2	4:Hx:138:LYS:HG3	1.79	0.45
1:Jg:49:TRP:CZ3	1:Jg:74:SER:HB3	2.52	0.45
1:Jv:174:LYS:O	1:Jv:212:LYS:NZ	2.50	0.45
1:KS:196:GLU:HB3	1:KS:265:ASN:ND2	2.32	0.45
1:Ki:175:ASP:HA	1:Ki:212:LYS:NZ	2.32	0.45
1:Ki:289:SER:HB2	1:Kj:85:GLN:HE22	1.80	0.45
1:Ks:173:ASP:HB3	1:Ks:179:LYS:HG3	1.98	0.45
1:Kt:152:LEU:HD21	2:Lv:105:SER:HA	1.99	0.45
1:Kx:259:ILE:HB	1:Kx:314:VAL:HB	1.98	0.45
1:Kz:195:ASP:H	4:Mk:36:ASN:CB	2.30	0.45
1:LG:39:LEU:HD21	1:LG:81:TYR:CE2	2.51	0.45
2:LT:75:LEU:HD22	2:LT:84:LEU:HD13	1.99	0.45
2:LT:137:LEU:HD11	2:LT:159:ALA:HB2	1.98	0.45
2:Ll:23:LYS:N	2:Ll:67:TYR:OH	2.48	0.45
2:MC:76:SER:HB3	2:MC:87:GLU:HG2	1.98	0.45
3:MN:171:ARG:HB3	3:MN:188:VAL:HG11	1.98	0.45
4:MU:58:LYS:HD3	4:MU:119:PRO:HG2	1.98	0.45
1:OW:261:ILE:HD12	1:OW:312:LEU:HD23	1.97	0.45
1:OY:162:PRO:HG2	2:QA:31:LEU:HD11	1.97	0.45
1:Oa:101:SER:OG	1:Oa:102:ASP:N	2.50	0.45
1:Ob:307:THR:HG22	2:Uz:32:LEU:HB2	1.98	0.45
1:Oi:261:ILE:HD12	1:Oi:312:LEU:HD23	1.98	0.45
1:Ow:49:TRP:CZ3	1:Ow:74:SER:HB3	2.51	0.45
1:PB:174:LYS:O	1:PB:212:LYS:NZ	2.49	0.45
1:PC:84:LEU:HB3	1:PF:57:PRO:HB2	1.98	0.45
1:PF:84:LEU:HB3	1:PI:57:PRO:HB2	1.99	0.45
1:Ph:109:ASN:O	2:Qi:24:ASN:ND2	2.49	0.45
1:Pu:278:LEU:HD12	5:TE:210:TYR:CG	2.52	0.45
4:RG:37:GLU:HG3	4:RG:38:PHE:H	1.81	0.45
1:Ta:152:LEU:HD21	2:VB:105:SER:HA	1.98	0.45
1:Te:13:VAL:HA	1:Te:16:ILE:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Tf:24:ILE:HG12	1:Tf:131:ASN:ND2	2.32	0.45
1:Tq:178:ASP:OD1	1:Tq:179:LYS:N	2.50	0.45
1:Tw:196:GLU:HB3	1:Tw:265:ASN:ND2	2.32	0.45
1:UB:272:LYS:N	1:UB:303:GLY:O	2.38	0.45
1:UX:152:LEU:HD21	2:VZ:105:SER:HA	1.99	0.45
1:UY:258:LYS:HZ2	1:UY:315:ASN:HB2	1.82	0.45
1:Uh:272:LYS:N	1:Uh:303:GLY:O	2.44	0.45
1:Uj:257:HIS:CE1	1:Uj:318:GLN:HG3	2.52	0.45
1:Uk:277:MET:HA	1:Uk:300:VAL:HB	1.98	0.45
1:Um:54:ASN:HD22	1:Um:69:THR:C	2.25	0.45
2:Vp:23:LYS:N	2:Vp:67:TYR:OH	2.48	0.45
4:Vv:22:MET:HE2	4:Vv:25:PRO:HA	1.98	0.45
4:Vx:140:LYS:HD3	4:Vx:161:ILE:HD13	1.97	0.45
4:WL:43:VAL:O	4:WL:43:VAL:HG13	2.17	0.45
5:YM:131:ILE:HD13	5:YM:140:ILE:HD11	1.98	0.45
5:Ye:113:ILE:O	5:Ye:117:GLN:HG2	2.17	0.45
5:Yl:103:LEU:HD12	5:Yl:113:ILE:HG23	1.98	0.45
5:Yl:122:VAL:HG11	5:Yl:151:LEU:HD13	1.99	0.45
5:Ym:73:GLU:O	5:Ym:77:LEU:HG	2.17	0.45
5:Yq:73:GLU:O	5:Yq:77:LEU:HG	2.16	0.45
5:Yx:103:LEU:HD12	5:Yx:113:ILE:HG23	1.99	0.45
5:Yy:102:VAL:O	5:Yy:106:LYS:HG2	2.16	0.45
5:ZM:62:GLU:OE1	5:ZU:97:HIS:NE2	2.50	0.45
5:Zc:153:SER:HB2	5:Zd:133:ALA:HB1	1.97	0.45
5:Zd:112:ASP:OD1	5:Zd:115:GLN:NE2	2.48	0.45
5:Zi:95:SER:HB3	5:Zi:98:PHE:CE1	2.51	0.45
5:Zi:95:SER:HB3	5:Zi:98:PHE:HE1	1.80	0.45
5:Zw:111:LYS:HZ2	5:Zz:74:LYS:HE3	1.82	0.45
5:Zy:113:ILE:O	5:Zy:117:GLN:HG2	2.17	0.45
5:aI:113:ILE:O	5:aI:117:GLN:HG2	2.17	0.45
5:aT:112:ASP:OD1	5:aT:115:GLN:NE2	2.49	0.45
5:ao:113:ILE:O	5:ao:117:GLN:HG2	2.16	0.45
5:bD:112:ASP:OD1	5:bD:115:GLN:NE2	2.49	0.45
5:bH:112:ASP:OD1	5:bH:115:GLN:NE2	2.50	0.45
5:bO:79:GLU:O	5:bO:83:ILE:HG12	2.17	0.45
5:bq:62:GLU:OE1	5:cW:97:HIS:NE2	2.50	0.45
5:br:112:ASP:OD1	5:br:115:GLN:NE2	2.49	0.45
5:bv:112:ASP:OD1	5:bv:115:GLN:NE2	2.50	0.45
5:cG:113:ILE:O	5:cG:117:GLN:HG2	2.17	0.45
5:dG:111:LYS:HZ2	5:dJ:74:LYS:HE3	1.82	0.45
5:dQ:111:LYS:HZ2	5:dT:74:LYS:HE3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eD:136:LYS:HE3	5:eD:136:LYS:HB2	1.77	0.45
5:eI:54:SER:HB3	5:eI:56:ASN:OD1	2.17	0.45
5:eU:75:GLN:O	5:eU:79:GLU:HG2	2.17	0.45
5:eW:75:GLN:O	5:eW:79:GLU:HG2	2.17	0.45
5:ea:143:ILE:HG22	5:ea:143:ILE:O	2.17	0.45
5:ec:94:LEU:HD11	5:ec:121:LEU:HG	1.97	0.45
5:eu:98:PHE:HD2	5:fa:55:ILE:HD11	1.82	0.45
5:ew:98:PHE:HD2	5:fc:55:ILE:HD11	1.82	0.45
5:fA:113:ILE:O	5:fA:117:GLN:HG2	2.17	0.45
5:fL:74:LYS:HE3	5:fM:111:LYS:HZ1	1.80	0.45
5:fN:112:ASP:OD1	5:fN:115:GLN:NE2	2.49	0.45
5:fS:75:GLN:O	5:fS:79:GLU:HG2	2.17	0.45
5:fa:75:GLN:O	5:fa:79:GLU:HG2	2.17	0.45
5:fc:75:GLN:O	5:fc:79:GLU:HG2	2.17	0.45
5:fu:113:ILE:O	5:fu:117:GLN:HG2	2.17	0.45
1:AM:84:LEU:HB3	1:AP:57:PRO:HB2	1.99	0.45
1:AQ:211:LEU:O	1:AQ:214:VAL:HG22	2.17	0.45
1:AS:197:PHE:HD2	1:AS:243:ASN:HB2	1.81	0.45
1:AU:55:ALA:O	1:Tf:86:TYR:OH	2.29	0.45
1:AX:113:LEU:HD11	1:FJ:49:TRP:CE3	2.52	0.45
1:AY:85:GLN:HE22	1:Bd:289:SER:HB2	1.82	0.45
1:AZ:28:TRP:CZ3	1:AZ:135:LEU:HB2	2.52	0.45
1:Aa:86:TYR:OH	1:BY:55:ALA:O	2.32	0.45
1:Aj:165:ILE:H	1:Aj:165:ILE:HD12	1.82	0.45
1:As:194:GLY:HA3	2:CS:36:ILE:HG21	1.98	0.45
1:BF:226:SER:O	1:BT:226:SER:OG	2.32	0.45
1:BG:201:MET:HE3	1:BG:201:MET:HB3	1.90	0.45
1:BL:257:HIS:ND1	1:BL:318:GLN:HG3	2.31	0.45
1:BW:49:TRP:CZ3	1:BW:74:SER:HB3	2.51	0.45
2:CQ:125:LYS:HD2	2:CQ:169:ASP:HA	1.99	0.45
2:CY:76:SER:HB3	2:CY:87:GLU:HG2	1.98	0.45
4:Cn:64:PHE:CZ	4:Cn:108:ILE:HD11	2.51	0.45
4:Cy:31:LEU:HB2	1:FX:306:ALA:O	2.16	0.45
4:DF:51:THR:HG21	4:DF:180:LYS:HE3	1.98	0.45
4:DJ:149:LEU:HD13	4:DJ:181:VAL:HG21	1.98	0.45
1:Er:261:ILE:HD12	1:Er:312:LEU:HD23	1.99	0.45
1:Eu:239:LYS:NZ	1:Eu:245:GLU:O	2.50	0.45
1:Ez:158:LEU:HB3	1:Ez:260:LEU:HD21	1.98	0.45
1:FC:307:THR:O	1:FC:310:THR:OG1	2.25	0.45
1:FG:174:LYS:O	1:FG:212:LYS:NZ	2.50	0.45
1:FL:41:MET:HE2	4:Hf:111:PHE:HD2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FS:49:TRP:CZ3	1:FS:74:SER:HB3	2.51	0.45
1:Ff:84:LEU:HB3	1:KM:57:PRO:HB2	1.98	0.45
1:Fh:57:PRO:HB2	1:Fo:84:LEU:HD13	1.99	0.45
1:Fh:194:GLY:HA3	2:HH:36:ILE:HG21	1.98	0.45
1:Ft:175:ASP:HA	1:Ft:212:LYS:NZ	2.32	0.45
1:GB:257:HIS:CE1	1:GB:318:GLN:HG3	2.52	0.45
1:GM:13:VAL:HA	1:GM:16:ILE:HG22	1.99	0.45
1:GS:109:ASN:O	2:Gl:24:ASN:ND2	2.48	0.45
1:GS:239:LYS:HA	1:GS:242:ASN:OD1	2.17	0.45
2:GY:56:LYS:HD2	4:HZ:56:PHE:HD1	1.82	0.45
4:Hc:37:GLU:HG3	4:Hc:38:PHE:H	1.82	0.45
1:Jg:96:GLU:O	1:Jg:100:THR:HG23	2.17	0.45
1:Jw:137:GLY:HA3	1:Jw:160:ASN:OD1	2.17	0.45
1:Jw:152:LEU:HD21	2:LX:105:SER:HA	1.98	0.45
1:Jw:239:LYS:HA	1:Jw:242:ASN:OD1	2.15	0.45
1:KI:65:ASN:HB2	2:Lh:59:ILE:H	1.82	0.45
1:KK:41:MET:HE3	1:KK:83:LYS:HB3	1.98	0.45
1:KV:306:ALA:O	2:QW:31:LEU:HD23	2.17	0.45
1:Kj:272:LYS:N	1:Kj:303:GLY:O	2.37	0.45
1:Kk:201:MET:HE3	1:Kk:201:MET:HB3	1.90	0.45
1:Kp:16:ILE:HD11	1:Kp:120:LYS:HE3	1.99	0.45
1:Kp:80:ASN:ND2	1:Kp:154:ASN:HB2	2.31	0.45
1:Kp:135:LEU:HD21	1:Kp:255:LEU:HG	1.97	0.45
1:Kp:161:MET:SD	2:Lx:31:LEU:HD21	2.57	0.45
1:Kp:205:VAL:HG12	1:Kp:259:ILE:HG23	1.98	0.45
1:Kr:57:PRO:HB2	1:Kt:84:LEU:HB3	1.99	0.45
1:Kr:89:ARG:HH21	1:Kr:112:LEU:HD21	1.81	0.45
1:LA:49:TRP:CZ3	1:LA:74:SER:HB3	2.51	0.45
1:LA:259:ILE:HB	1:LA:314:VAL:HB	1.99	0.45
1:LB:13:VAL:HA	1:LB:16:ILE:HG22	1.99	0.45
1:LF:278:LEU:HD12	5:OP:210:TYR:CG	2.52	0.45
2:LT:125:LYS:HD2	2:LT:169:ASP:HA	1.98	0.45
2:MG:125:LYS:HD2	2:MG:169:ASP:HA	1.97	0.45
4:Md:133:SER:HB3	4:Md:177:TYR:CE1	2.52	0.45
1:OT:24:ILE:HG12	1:OT:131:ASN:ND2	2.31	0.45
1:OV:96:GLU:O	1:OV:100:THR:HG23	2.17	0.45
1:Ov:169:VAL:HB	1:Ov:316:ILE:HA	1.98	0.45
1:Oz:80:ASN:ND2	1:Oz:153:PRO:O	2.50	0.45
1:PG:178:ASP:OD1	1:PG:178:ASP:N	2.47	0.45
1:PX:43:TYR:HE2	1:PX:45:LYS:HE2	1.82	0.45
1:Pj:91:LEU:HD21	1:Pj:112:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pl:67:ILE:HG13	1:Ps:296:TYR:HE2	1.82	0.45
1:Pp:259:ILE:HB	1:Pp:314:VAL:HB	1.99	0.45
1:Pq:175:ASP:HA	1:Pq:212:LYS:NZ	2.31	0.45
1:Pw:33:GLN:NE2	1:Pw:269:ILE:O	2.41	0.45
2:QI:125:LYS:HD2	2:QI:169:ASP:HA	1.98	0.45
2:Qi:59:ILE:HG22	2:Qi:111:ILE:HG12	1.99	0.45
2:Qw:65:LYS:HD3	2:Qw:87:GLU:HB3	1.98	0.45
4:RR:31:LEU:HB2	1:Tq:306:ALA:O	2.16	0.45
4:RV:161:ILE:HA	4:RV:186:ASN:HA	1.98	0.45
1:TO:49:TRP:CZ3	1:TO:74:SER:HB3	2.51	0.45
1:TU:80:ASN:ND2	1:TU:153:PRO:O	2.50	0.45
1:Tg:80:ASN:HD22	1:Tg:154:ASN:HB2	1.81	0.45
1:Th:28:TRP:CZ3	1:Th:135:LEU:HB2	2.52	0.45
1:Ti:86:TYR:OH	1:Ug:55:ALA:O	2.32	0.45
1:To:41:MET:HE3	1:To:83:LYS:HB3	1.98	0.45
1:Ts:87:LYS:NZ	2:VN:53:THR:O	2.44	0.45
1:UR:196:GLU:HB3	1:UR:265:ASN:ND2	2.32	0.45
1:UT:157:GLY:N	1:UT:160:ASN:OD1	2.45	0.45
1:UT:161:MET:SD	2:Vb:31:LEU:HD21	2.57	0.45
1:UU:257:HIS:CE1	1:UU:318:GLN:HG3	2.52	0.45
1:UV:57:PRO:HB2	1:UX:84:LEU:HB3	1.99	0.45
1:Uf:49:TRP:CZ3	1:Uf:74:SER:HB3	2.52	0.45
1:Uf:175:ASP:HA	1:Uf:212:LYS:NZ	2.31	0.45
1:Uf:317:LYS:HE2	1:Uf:319:SER:HB2	1.99	0.45
1:Uh:140:SER:HB2	1:Uh:148:GLN:HG2	1.97	0.45
2:Uy:23:LYS:HG3	2:Uy:24:ASN:N	2.31	0.45
2:VK:133:PRO:HG3	2:VK:161:SER:HA	1.99	0.45
2:VS:165:LYS:HB2	2:VS:171:PHE:CE2	2.52	0.45
2:Vj:56:LYS:HD2	2:Vk:56:LYS:HA	1.98	0.45
4:WL:51:THR:HG21	4:WL:180:LYS:HE3	1.98	0.45
5:YK:66:VAL:HG22	5:YK:69:ARG:HH21	1.82	0.45
5:YQ:113:ILE:O	5:YQ:117:GLN:HG2	2.16	0.45
5:Yg:79:GLU:O	5:Yg:83:ILE:HG12	2.17	0.45
5:Yq:75:GLN:O	5:Yq:79:GLU:HG2	2.17	0.45
5:Yr:83:ILE:HA	5:Yr:114:MET:HE2	1.99	0.45
5:Yu:113:ILE:O	5:Yu:117:GLN:HG2	2.17	0.45
5:ZF:122:VAL:HG11	5:ZF:151:LEU:HD13	1.99	0.45
5:ZK:94:LEU:HD11	5:ZK:121:LEU:HG	1.98	0.45
5:ZY:103:LEU:HD12	5:ZY:113:ILE:HG23	1.98	0.45
5:Zc:119:ARG:HB3	5:Zc:123:ARG:NH1	2.32	0.45
5:Zs:79:GLU:O	5:Zs:83:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Zs:95:SER:HB3	5:Zs:98:PHE:HE1	1.82	0.45
5:aS:98:PHE:HB3	5:aS:117:GLN:HE22	1.81	0.45
5:bM:79:GLU:O	5:bM:83:ILE:HG12	2.17	0.45
5:bO:98:PHE:HB3	5:bO:117:GLN:HE22	1.82	0.45
5:bS:79:GLU:O	5:bS:83:ILE:HG12	2.17	0.45
5:bc:86:ILE:HD11	5:bc:118:ARG:HE	1.82	0.45
5:bc:111:LYS:HZ2	5:bf:74:LYS:HE3	1.81	0.45
5:bk:55:ILE:HG21	5:cQ:116:ALA:HB2	1.99	0.45
5:cU:79:GLU:O	5:cU:83:ILE:HG12	2.17	0.45
5:ca:79:GLU:O	5:ca:83:ILE:HG12	2.17	0.45
5:cb:112:ASP:OD1	5:cb:115:GLN:NE2	2.49	0.45
5:cc:113:ILE:O	5:cc:117:GLN:HG2	2.15	0.45
5:dW:86:ILE:HD11	5:dW:118:ARG:HE	1.81	0.45
5:dY:113:ILE:O	5:dY:117:GLN:HG2	2.17	0.45
5:eC:54:SER:HB3	5:eC:56:ASN:OD1	2.17	0.45
5:eK:56:ASN:HB2	5:eM:146:GLU:H	1.82	0.45
5:eM:75:GLN:O	5:eM:79:GLU:HG2	2.17	0.45
5:eS:75:GLN:O	5:eS:79:GLU:HG2	2.17	0.45
5:eY:79:GLU:O	5:eY:83:ILE:HG12	2.17	0.45
5:ek:79:GLU:O	5:ek:83:ILE:HG12	2.16	0.45
5:en:136:LYS:HB2	5:en:136:LYS:HE3	1.71	0.45
5:ew:116:ALA:HB1	5:fc:55:ILE:HD13	1.99	0.45
5:fE:86:ILE:HD11	5:fE:118:ARG:HE	1.80	0.45
5:fW:75:GLN:O	5:fW:79:GLU:HG2	2.17	0.45
5:fZ:122:VAL:HG11	5:fZ:151:LEU:HD13	1.98	0.45
5:fi:75:GLN:O	5:fi:79:GLU:HG2	2.17	0.45
5:fk:113:ILE:O	5:fk:117:GLN:HG2	2.17	0.45
5:fo:113:ILE:O	5:fo:117:GLN:HG2	2.17	0.45
5:gA:113:ILE:O	5:gA:117:GLN:HG2	2.17	0.45
1:AH:257:HIS:HB3	1:AH:316:ILE:HB	1.99	0.45
1:AJ:92:LYS:NZ	1:AJ:95:SER:OG	2.41	0.45
1:AU:84:LEU:HD13	1:Aa:57:PRO:HB2	1.97	0.45
1:AV:317:LYS:NZ	1:AV:319:SER:OXT	2.42	0.45
1:AX:13:VAL:HA	1:AX:16:ILE:HG22	1.98	0.45
1:AZ:259:ILE:HB	1:AZ:314:VAL:HB	1.98	0.45
1:Ac:66:THR:HG22	2:CB:52:CYS:SG	2.57	0.45
1:Ac:80:ASN:HB2	1:Ac:155:MET:HG3	1.99	0.45
1:Ae:77:VAL:HG11	1:Ae:305:LEU:HD13	1.99	0.45
1:Af:164:GLN:OE1	1:Af:310:THR:N	2.43	0.45
1:As:78:ARG:O	1:As:154:ASN:ND2	2.32	0.45
1:BF:272:LYS:N	1:BF:303:GLY:O	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:307:THR:HG22	2:CW:32:LEU:HB2	1.99	0.45
1:BY:135:LEU:HD21	1:BY:255:LEU:HG	1.98	0.45
1:BZ:308:ARG:HH21	2:Bx:31:LEU:HB2	1.80	0.45
1:Be:54:ASN:HD22	1:Be:69:THR:C	2.24	0.45
2:Bl:140:ASN:HD21	2:Bl:144:GLU:HB2	1.81	0.45
2:Bu:167:THR:HG22	2:Bu:168:GLU:H	1.82	0.45
2:Bx:156:ASN:HB3	2:Bx:178:PHE:CZ	2.51	0.45
2:Ch:23:LYS:N	2:Ch:67:TYR:OH	2.48	0.45
4:Cw:51:THR:HG23	4:Cw:126:GLY:HA2	1.98	0.45
4:DC:161:ILE:HA	4:DC:186:ASN:HA	1.98	0.45
1:Eq:36:ASP:CG	5:IA:214:ARG:HH22	2.25	0.45
1:FE:66:THR:HG22	4:Hc:52:ARG:HB3	1.98	0.45
1:FN:54:ASN:HB3	2:Gj:51:VAL:HG12	1.98	0.45
1:FN:196:GLU:HB2	1:FN:268:LEU:HD11	1.99	0.45
1:FT:77:VAL:HG11	1:FT:305:LEU:HD13	1.99	0.45
1:Fe:196:GLU:HB3	1:Fe:265:ASN:ND2	2.31	0.45
1:Fr:39:LEU:HD21	1:Fr:81:TYR:CE2	2.51	0.45
1:Fw:288:ASP:OD1	1:Fw:289:SER:N	2.41	0.45
1:Fz:81:TYR:OH	1:Fz:272:LYS:O	2.33	0.45
1:GC:49:TRP:CE3	1:GC:74:SER:HB3	2.52	0.45
1:GN:80:ASN:HB2	1:GN:155:MET:HG3	1.99	0.45
2:GX:165:LYS:HE3	2:GX:168:GLU:HA	1.98	0.45
3:HY:180:ILE:HG12	3:HY:203:TYR:CE1	2.52	0.45
4:HZ:69:TYR:HB2	4:HZ:108:ILE:HD12	1.98	0.45
4:Hk:162:ASN:HB3	4:Hk:184:PHE:CE2	2.52	0.45
4:Hu:51:THR:HG21	4:Hu:180:LYS:HE3	1.98	0.45
1:Jm:33:GLN:NE2	1:Jm:269:ILE:O	2.48	0.45
1:Jo:158:LEU:HB3	1:Jo:260:LEU:HD21	1.98	0.45
1:Jw:197:PHE:HD2	1:Jw:243:ASN:HB2	1.81	0.45
1:KB:13:VAL:HA	1:KB:16:ILE:HG22	1.98	0.45
1:KC:157:GLY:N	1:KC:160:ASN:OD1	2.42	0.45
1:KE:13:VAL:HA	1:KE:16:ILE:HG22	1.99	0.45
1:Kf:33:GLN:NE2	1:Kf:269:ILE:O	2.38	0.45
1:Kh:92:LYS:HZ2	1:Kh:94:THR:HG1	1.65	0.45
1:Kn:41:MET:HE3	1:Kn:82:LEU:HD12	1.99	0.45
1:Kx:49:TRP:CH2	1:Kx:74:SER:HB3	2.52	0.45
1:LB:317:LYS:HE2	1:LB:319:SER:HB2	1.99	0.45
1:LC:59:THR:O	2:Ld:61:ASN:ND2	2.49	0.45
1:LD:49:TRP:CZ3	1:LD:74:SER:HB3	2.52	0.45
1:LE:87:LYS:NZ	4:Mn:53:THR:O	2.42	0.45
1:LI:54:ASN:HD22	1:LI:69:THR:C	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LY:63:PRO:HB2	2:LY:85:GLU:HB3	1.98	0.45
1:OU:36:ASP:CG	5:Re:214:ARG:HH22	2.25	0.45
1:Oh:24:ILE:HG12	1:Oh:131:ASN:ND2	2.32	0.45
1:Oh:59:THR:O	2:QM:61:ASN:ND2	2.50	0.45
1:Ol:137:GLY:HA3	1:Ol:160:ASN:OD1	2.17	0.45
1:PK:306:ALA:O	2:VL:31:LEU:HD23	2.17	0.45
1:PL:26:TYR:O	5:SV:218:TYR:OH	2.33	0.45
1:PO:87:LYS:NZ	4:RS:53:THR:O	2.38	0.45
1:Pa:307:THR:HG22	2:Qp:32:LEU:HB2	1.99	0.45
1:Pc:79:LEU:HD11	1:Pc:305:LEU:HB2	1.99	0.45
1:Pf:257:HIS:CE1	1:Pf:318:GLN:HG3	2.52	0.45
1:Pq:317:LYS:HE2	1:Pq:319:SER:HB2	1.99	0.45
1:Ps:48:LYS:HB3	1:Ps:75:GLU:HB3	1.99	0.45
2:QI:75:LEU:HD22	2:QI:84:LEU:HD13	1.99	0.45
2:QK:23:LYS:N	2:QK:67:TYR:OH	2.49	0.45
2:QY:140:ASN:HD21	2:QY:144:GLU:HB2	1.82	0.45
4:RI:142:ILE:HD11	4:RI:152:VAL:HG22	1.99	0.45
4:RJ:58:LYS:HD3	4:RJ:119:PRO:HG2	1.98	0.45
1:TJ:36:ASP:CG	5:WT:214:ARG:HH22	2.25	0.45
1:TK:96:GLU:O	1:TK:100:THR:HG23	2.17	0.45
1:TL:41:MET:HE3	1:TL:83:LYS:H	1.82	0.45
1:TN:49:TRP:CZ3	1:TN:74:SER:HB3	2.52	0.45
1:Tf:282:ASN:HB3	1:Tf:296:TYR:HB2	1.97	0.45
1:Tm:77:VAL:HG11	1:Tm:305:LEU:HD13	1.99	0.45
1:Ts:57:PRO:HB2	1:Tw:84:LEU:HB3	1.99	0.45
1:Tt:257:HIS:HB3	1:Tt:316:ILE:HB	1.99	0.45
1:Tx:142:GLN:NE2	1:Tx:147:ASN:OD1	2.50	0.45
1:UB:49:TRP:CZ3	1:UB:74:SER:HB3	2.51	0.45
1:UB:259:ILE:HB	1:UB:314:VAL:HB	1.98	0.45
1:UK:39:LEU:HD21	1:UK:81:TYR:CE2	2.51	0.45
1:UR:66:THR:HG22	2:VZ:52:CYS:HB3	1.98	0.45
1:UV:89:ARG:HH21	1:UV:112:LEU:HD21	1.81	0.45
1:UW:173:ASP:HB3	1:UW:179:LYS:HG3	1.98	0.45
2:VN:140:ASN:HD21	2:VN:144:GLU:HB2	1.82	0.45
3:Vr:180:ILE:HG12	3:Vr:203:TYR:CE1	2.52	0.45
4:Vx:142:ILE:HD11	4:Vx:152:VAL:HG22	1.99	0.45
6:Xx:305:GLU:OE1	6:Xx:308:THR:N	2.42	0.45
6:Xz:195:GLU:O	6:Xz:198:VAL:HG12	2.17	0.45
6:YA:192:TYR:HE2	6:YA:197:LEU:HD13	1.81	0.45
6:YH:348:LEU:HD23	6:YH:348:LEU:HA	1.86	0.45
6:YI:320:ASN:HB3	6:YI:368:GLN:HE22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YL:131:ILE:HD13	5:YL:140:ILE:HD11	1.98	0.45
5:YT:118:ARG:O	5:YT:122:VAL:HG23	2.16	0.45
5:YW:82:ARG:O	5:YW:86:ILE:HG13	2.17	0.45
5:YX:77:LEU:HD23	5:YY:110:LEU:HD22	1.99	0.45
5:Yn:112:ASP:OD1	5:Yn:115:GLN:NE2	2.50	0.45
5:Yo:143:ILE:HG22	5:Yo:143:ILE:O	2.17	0.45
5:ZC:113:ILE:O	5:ZC:117:GLN:HG2	2.17	0.45
5:ZF:84:ASN:HD21	5:ZG:84:ASN:HB2	1.82	0.45
5:ZW:94:LEU:HD11	5:ZW:121:LEU:HG	1.99	0.45
5:aC:113:ILE:O	5:aC:117:GLN:HG2	2.17	0.45
5:aK:113:ILE:O	5:aK:117:GLN:HG2	2.17	0.45
5:aQ:98:PHE:HB3	5:aQ:117:GLN:HE22	1.81	0.45
5:aY:113:ILE:O	5:aY:117:GLN:HG2	2.17	0.45
5:am:113:ILE:O	5:am:117:GLN:HG2	2.16	0.45
5:bI:98:PHE:HB3	5:bI:117:GLN:HE22	1.81	0.45
5:ba:113:ILE:O	5:ba:117:GLN:HG2	2.16	0.45
5:bb:112:ASP:OD1	5:bb:115:GLN:NE2	2.49	0.45
5:bh:112:ASP:OD1	5:bh:115:GLN:NE2	2.50	0.45
5:bs:79:GLU:O	5:bs:83:ILE:HG12	2.17	0.45
5:bw:79:GLU:O	5:bw:83:ILE:HG12	2.17	0.45
5:cC:79:GLU:O	5:cC:83:ILE:HG12	2.17	0.45
5:cY:79:GLU:O	5:cY:83:ILE:HG12	2.17	0.45
5:ce:55:ILE:HD13	5:dK:116:ALA:HB1	1.99	0.45
5:cs:86:ILE:HD11	5:cs:118:ARG:HE	1.82	0.45
5:ct:122:VAL:HG11	5:ct:151:LEU:HD13	1.98	0.45
5:dU:113:ILE:O	5:dU:117:GLN:HG2	2.17	0.45
5:dc:113:ILE:O	5:dc:117:GLN:HG2	2.17	0.45
5:dd:112:ASP:OD1	5:dd:115:GLN:NE2	2.48	0.45
5:dg:63:LEU:HD11	5:eP:136:LYS:HD2	1.99	0.45
5:ds:55:ILE:HD12	5:ea:136:LYS:HZ3	1.82	0.45
5:ds:143:ILE:HG22	5:ds:143:ILE:O	2.17	0.45
5:dw:111:LYS:HZ2	5:dz:74:LYS:HE3	1.81	0.45
5:eH:112:ASP:OD1	5:eH:115:GLN:NE2	2.49	0.45
5:eI:56:ASN:HB3	5:eq:147:ILE:HG22	1.98	0.45
5:eJ:136:LYS:HB2	5:eJ:136:LYS:HE3	1.76	0.45
5:eZ:112:ASP:OD1	5:eZ:115:GLN:NE2	2.49	0.45
5:eg:94:LEU:HD11	5:eg:121:LEU:HG	1.97	0.45
5:ew:75:GLN:O	5:ew:79:GLU:HG2	2.17	0.45
5:ey:79:GLU:O	5:ey:83:ILE:HG12	2.17	0.45
5:fA:75:GLN:O	5:fA:79:GLU:HG2	2.17	0.45
5:fC:75:GLN:O	5:fC:79:GLU:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fI:113:ILE:O	5:fI:117:GLN:HG2	2.17	0.45
5:fJ:112:ASP:OD1	5:fJ:115:GLN:NE2	2.49	0.45
5:fm:75:GLN:O	5:fm:79:GLU:HG2	2.17	0.45
5:fn:112:ASP:OD1	5:fn:115:GLN:NE2	2.48	0.45
5:ft:112:ASP:OD1	5:ft:115:GLN:NE2	2.50	0.45
5:fu:75:GLN:O	5:fu:79:GLU:HG2	2.17	0.45
5:gA:75:GLN:O	5:gA:79:GLU:HG2	2.17	0.45
1:AB:239:LYS:NZ	1:AB:245:GLU:O	2.46	0.45
1:AC:96:GLU:O	1:AC:100:THR:HG23	2.17	0.45
1:AT:79:LEU:HD11	1:AT:305:LEU:HB2	1.98	0.45
1:AX:24:ILE:HG12	1:AX:131:ASN:ND2	2.32	0.45
1:BC:39:LEU:HD21	1:BC:81:TYR:CE2	2.51	0.45
1:BE:86:TYR:HE1	1:BU:57:PRO:HA	1.82	0.45
1:BL:135:LEU:HD21	1:BL:255:LEU:HG	1.97	0.45
1:BZ:48:LYS:HB3	1:BZ:75:GLU:HB3	1.99	0.45
4:Cy:77:ILE:HG13	4:Cy:91:PRO:HB3	1.97	0.45
4:DD:51:THR:HG21	4:DD:180:LYS:HE3	1.97	0.45
1:Ex:307:THR:HG22	2:LV:32:LEU:HB2	1.98	0.45
1:FO:259:ILE:HB	1:FO:314:VAL:HB	1.98	0.45
1:FZ:57:PRO:HB2	1:Fd:84:LEU:HB3	1.99	0.45
1:Fi:259:ILE:HB	1:Fi:314:VAL:HB	1.98	0.45
1:Fs:196:GLU:HB3	1:Fs:265:ASN:HD22	1.81	0.45
1:GD:272:LYS:N	1:GD:303:GLY:O	2.40	0.45
1:GL:173:ASP:HB3	1:GL:179:LYS:HG3	1.99	0.45
1:GM:317:LYS:HE2	1:GM:319:SER:HB2	1.99	0.45
1:GO:140:SER:HB2	1:GO:148:GLN:HG2	1.98	0.45
2:GU:183:ILE:HA	2:GW:183:ILE:HG12	1.99	0.45
2:HL:125:LYS:NZ	2:HL:169:ASP:OD1	2.46	0.45
2:HN:138:ASN:ND2	2:HN:153:LYS:HE2	2.32	0.45
4:He:142:ILE:HD11	4:He:152:VAL:HG22	1.99	0.45
4:Hn:31:LEU:HB2	1:KM:306:ALA:O	2.16	0.45
4:Ho:133:SER:HB3	4:Ho:177:TYR:CE1	2.52	0.45
4:Hr:161:ILE:HA	4:Hr:186:ASN:HA	1.98	0.45
1:Js:59:THR:O	2:LX:61:ASN:ND2	2.50	0.45
1:Js:169:VAL:HG22	1:Js:183:LYS:HG3	1.99	0.45
1:Jx:79:LEU:HD11	1:Jx:305:LEU:HB2	1.98	0.45
1:Jz:66:THR:HG22	2:LR:52:CYS:HB3	1.98	0.45
1:KM:174:LYS:O	1:KM:212:LYS:NZ	2.49	0.45
1:KN:165:ILE:H	1:KN:165:ILE:HD12	1.82	0.45
1:KS:165:ILE:H	1:KS:165:ILE:HD12	1.81	0.45
1:KX:96:GLU:O	1:KX:100:THR:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Km:163:GLU:HB3	1:Km:308:ARG:HG3	1.99	0.45
1:Ky:110:ASN:OD1	1:LA:62:ASN:ND2	2.37	0.45
2:LM:165:LYS:HE3	2:LM:168:GLU:HA	1.98	0.45
2:LN:56:LYS:HD2	4:MO:56:PHE:HD1	1.82	0.45
2:LV:23:LYS:N	2:LV:67:TYR:OH	2.49	0.45
2:Ls:56:LYS:HD2	4:Md:56:PHE:HD1	1.82	0.45
4:Mh:43:VAL:O	4:Mh:43:VAL:HG13	2.17	0.45
1:Oa:257:HIS:HB3	1:Oa:316:ILE:HB	1.99	0.45
1:Of:100:THR:HA	1:Of:105:ILE:HG23	1.98	0.45
1:Of:152:LEU:HD11	2:QH:105:SER:HA	1.99	0.45
1:Ol:165:ILE:HD13	1:Ol:191:LEU:HD23	1.99	0.45
1:Oq:113:LEU:HD11	1:Tc:49:TRP:CE3	2.52	0.45
1:Ov:62:ASN:HB2	3:RC:156:TYR:CZ	2.52	0.45
1:PC:165:ILE:HD12	1:PC:165:ILE:H	1.82	0.45
1:PL:16:ILE:HD11	1:PL:120:LYS:HE3	1.99	0.45
1:PL:194:GLY:HA3	2:Ql:36:ILE:HG21	1.98	0.45
1:PZ:163:GLU:O	1:PZ:164:GLN:NE2	2.50	0.45
1:Pp:173:ASP:HB3	1:Pp:179:LYS:HG3	1.99	0.45
1:Pr:80:ASN:HB2	1:Pr:155:MET:HG3	1.99	0.45
1:Pw:79:LEU:HD11	1:Pw:305:LEU:HB2	1.99	0.45
1:Pw:87:LYS:NZ	2:QP:53:THR:O	2.26	0.45
2:QJ:23:LYS:HE3	2:QJ:23:LYS:HB2	1.79	0.45
2:QV:155:VAL:HG12	2:QV:178:PHE:HZ	1.82	0.45
2:Qd:165:LYS:HB2	2:Qd:171:PHE:CE2	2.52	0.45
2:Qh:140:ASN:HD21	2:Qh:144:GLU:HB2	1.81	0.45
2:RA:61:ASN:ND2	1:Uf:59:THR:O	2.50	0.45
2:RA:102:ASP:HB2	1:Uf:62:ASN:ND2	2.31	0.45
4:RD:69:TYR:HB2	4:RD:108:ILE:HD12	1.98	0.45
4:RS:78:GLN:NE2	4:RS:89:TYR:HB2	2.32	0.45
4:Rc:149:LEU:HD13	4:Rc:181:VAL:HG21	1.97	0.45
1:TK:49:TRP:CZ3	1:TK:74:SER:HB3	2.52	0.45
1:TP:55:ALA:O	1:TT:86:TYR:OH	2.27	0.45
1:Tn:278:LEU:HD23	1:Tn:278:LEU:HA	1.81	0.45
1:Tz:178:ASP:OD1	1:Tz:179:LYS:N	2.49	0.45
1:UA:77:VAL:HG21	2:Va:32:LEU:HD23	1.98	0.45
1:UB:96:GLU:O	1:UB:100:THR:HG23	2.16	0.45
1:UJ:49:TRP:CZ3	1:UJ:74:SER:HB3	2.52	0.45
1:UO:163:GLU:O	1:UO:164:GLN:NE2	2.50	0.45
1:UT:39:LEU:O	1:UT:274:SER:OG	2.22	0.45
2:VA:23:LYS:HG3	2:VA:24:ASN:N	2.31	0.45
2:VC:157:ALA:HB2	2:VC:177:VAL:HG22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VM:140:ASN:OD1	2:VM:144:GLU:N	2.43	0.45
4:WI:23:LYS:N	4:WI:67:TYR:OH	2.50	0.45
6:YD:192:TYR:OH	6:YD:194:ASP:OD2	2.31	0.45
5:YQ:68:GLU:O	5:YQ:72:ILE:HG13	2.17	0.45
5:YR:68:GLU:O	5:YR:72:ILE:HG13	2.16	0.45
5:YS:154:LEU:HD13	5:YU:134:ILE:HD11	1.98	0.45
5:YT:94:LEU:HD11	5:YT:121:LEU:HG	1.99	0.45
5:Yg:72:ILE:O	5:Yg:76:LEU:HG	2.16	0.45
5:Yj:113:ILE:O	5:Yj:117:GLN:HG2	2.16	0.45
5:Yp:135:ALA:HB1	5:Yp:143:ILE:HG12	1.99	0.45
5:Yq:154:LEU:HD13	5:Yr:130:GLN:HG3	1.98	0.45
5:Yw:143:ILE:HG22	5:Yw:143:ILE:O	2.17	0.45
5:ZG:75:GLN:O	5:ZG:79:GLU:HG2	2.16	0.45
5:ZG:102:VAL:HG12	5:ZG:106:LYS:NZ	2.31	0.45
5:ZX:122:VAL:HG11	5:ZX:151:LEU:HD13	1.99	0.45
5:ao:111:LYS:HZ2	5:ar:74:LYS:HE3	1.81	0.45
5:av:75:GLN:NE2	5:av:79:GLU:OE1	2.44	0.45
5:ax:122:VAL:HG11	5:ax:151:LEU:HD13	1.99	0.45
5:bW:113:ILE:O	5:bW:117:GLN:HG2	2.16	0.45
5:bY:113:ILE:O	5:bY:117:GLN:HG2	2.16	0.45
5:bd:122:VAL:HG11	5:bd:151:LEU:HD13	1.98	0.45
5:bm:55:ILE:HG21	5:cS:116:ALA:HB2	1.98	0.45
5:bq:79:GLU:O	5:bq:83:ILE:HG12	2.17	0.45
5:cS:55:ILE:HG21	5:cy:116:ALA:HB2	1.99	0.45
5:cS:79:GLU:O	5:cS:83:ILE:HG12	2.17	0.45
5:cW:79:GLU:O	5:cW:83:ILE:HG12	2.17	0.45
5:cn:122:VAL:HG11	5:cn:151:LEU:HD13	1.99	0.45
5:cv:122:VAL:HG11	5:cv:151:LEU:HD13	1.98	0.45
5:cy:79:GLU:O	5:cy:83:ILE:HG12	2.17	0.45
5:dq:111:LYS:HZ1	5:dt:74:LYS:HE3	1.80	0.45
5:eG:55:ILE:HD12	5:eo:136:LYS:HZ3	1.81	0.45
5:eN:136:LYS:HE3	5:eN:136:LYS:HB2	1.72	0.45
5:eO:75:GLN:O	5:eO:79:GLU:HG2	2.17	0.45
5:eY:75:GLN:O	5:eY:79:GLU:HG2	2.17	0.45
5:ea:75:GLN:O	5:ea:79:GLU:HG2	2.16	0.45
5:ea:79:GLU:O	5:ea:83:ILE:HG12	2.17	0.45
5:ew:113:ILE:O	5:ew:117:GLN:HG2	2.17	0.45
5:fA:79:GLU:O	5:fA:83:ILE:HG12	2.17	0.45
5:fG:113:ILE:O	5:fG:117:GLN:HG2	2.17	0.45
5:fM:75:GLN:O	5:fM:79:GLU:HG2	2.16	0.45
5:fM:113:ILE:O	5:fM:117:GLN:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fO:113:ILE:O	5:fO:117:GLN:HG2	2.17	0.45
5:fq:75:GLN:O	5:fq:79:GLU:HG2	2.17	0.45
1:AD:80:ASN:ND2	1:AD:153:PRO:O	2.50	0.45
1:AG:152:LEU:HD21	2:Bl:105:SER:HA	1.99	0.45
1:AH:101:SER:OG	1:AH:102:ASP:N	2.50	0.45
1:Aa:13:VAL:HA	1:Aa:16:ILE:HG22	1.99	0.45
1:Ai:174:LYS:O	1:Ai:212:LYS:NZ	2.49	0.45
1:Ai:178:ASP:OD1	1:Ai:179:LYS:N	2.50	0.45
1:Al:13:VAL:HA	1:Al:16:ILE:HG22	1.99	0.45
1:Aq:211:LEU:O	1:Aq:214:VAL:HG22	2.17	0.45
1:BE:67:ILE:HG13	1:BI:296:TYR:HE2	1.81	0.45
1:BG:66:THR:HG22	4:DC:52:ARG:HB3	1.98	0.45
1:BW:41:MET:HG2	2:Cg:104:PHE:HE2	1.82	0.45
1:Bc:260:LEU:HD23	1:Bc:260:LEU:HA	1.85	0.45
1:Bd:79:LEU:HD11	1:Bd:305:LEU:HB2	1.99	0.45
2:Bm:45:PHE:HD1	2:Bm:172:ILE:HD11	1.81	0.45
2:Bn:180:ASN:ND2	4:Cm:186:ASN:O	2.49	0.45
2:CO:51:VAL:O	1:UC:69:THR:OG1	2.25	0.45
2:CP:59:ILE:HG22	2:CP:111:ILE:HG12	1.99	0.45
2:CU:76:SER:HB3	2:CU:87:GLU:HG2	1.98	0.45
1:Es:289:SER:HB2	1:Et:85:GLN:HE22	1.82	0.45
1:Ev:196:GLU:HB3	1:Ev:265:ASN:ND2	2.32	0.45
1:FB:80:ASN:ND2	1:FB:153:PRO:O	2.50	0.45
1:FH:137:GLY:HA3	1:FH:160:ASN:OD1	2.17	0.45
1:Fr:87:LYS:NZ	2:HJ:53:THR:O	2.39	0.45
1:Fx:87:LYS:NZ	2:HN:53:THR:O	2.41	0.45
1:Fy:196:GLU:HB3	1:Fy:265:ASN:ND2	2.32	0.45
2:GX:69:TYR:HB2	2:GX:101:ILE:HD12	1.98	0.45
2:Gk:156:ASN:OD1	2:Gk:181:ARG:HB3	2.16	0.45
2:Gr:133:PRO:HG3	2:Gr:161:SER:HA	1.99	0.45
2:HW:61:ASN:ND2	1:LB:59:THR:O	2.50	0.45
4:Hx:26:GLN:NE2	4:Hx:28:ASP:OD1	2.50	0.45
1:Jg:165:ILE:HD13	1:Jg:191:LEU:HD23	1.99	0.45
1:Jg:261:ILE:HD12	1:Jg:312:LEU:HD23	1.98	0.45
1:Jh:41:MET:HE2	1:Jh:82:LEU:HD12	1.98	0.45
1:Jj:49:TRP:CZ3	1:Jj:74:SER:HB3	2.52	0.45
1:Jy:282:ASN:OD1	1:Jy:283:GLU:N	2.50	0.45
1:Jz:87:LYS:NZ	2:LY:53:THR:O	2.31	0.45
1:KP:80:ASN:ND2	1:KP:153:PRO:O	2.50	0.45
1:Ke:174:LYS:HE3	1:Ke:318:GLN:HG3	1.99	0.45
1:Kh:79:LEU:HD11	1:Kh:305:LEU:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kp:259:ILE:HB	1:Kp:314:VAL:HB	1.99	0.45
1:Kw:66:THR:HG22	2:ML:52:CYS:HB3	1.99	0.45
2:Lo:156:ASN:ND2	2:Lo:180:ASN:O	2.50	0.45
2:Lx:133:PRO:HG3	2:Lx:161:SER:HA	1.97	0.45
2:MC:138:ASN:ND2	2:MC:153:LYS:HE2	2.32	0.45
2:MJ:75:LEU:HD22	2:MJ:84:LEU:HD13	1.99	0.45
4:Md:144:ASN:OD1	4:Md:148:ALA:N	2.41	0.45
1:OV:165:ILE:HD13	1:OV:191:LEU:HD23	1.99	0.45
1:OW:80:ASN:ND2	1:OW:153:PRO:O	2.50	0.45
1:Oi:194:GLY:HA3	4:RG:36:ASN:HB2	1.99	0.45
1:Or:54:ASN:HB3	2:QN:51:VAL:HG12	1.98	0.45
1:Or:80:ASN:HD22	1:Or:154:ASN:HB2	1.81	0.45
1:Oy:210:SER:OG	1:PJ:244:ARG:NH1	2.50	0.45
1:Oz:239:LYS:NZ	1:Oz:245:GLU:O	2.42	0.45
1:PH:13:VAL:HA	1:PH:16:ILE:HG22	1.99	0.45
1:PL:59:THR:O	4:RU:61:ASN:ND2	2.50	0.45
1:PM:259:ILE:HB	1:PM:314:VAL:HB	1.98	0.45
1:PN:96:GLU:O	1:PN:100:THR:HG23	2.16	0.45
1:Pe:259:ILE:HB	1:Pe:314:VAL:HB	1.99	0.45
1:Pg:49:TRP:CE3	1:Pg:74:SER:HB3	2.52	0.45
1:Pg:89:ARG:HH21	1:Pg:112:LEU:HD21	1.81	0.45
1:Pr:135:LEU:HD21	1:Pr:255:LEU:HG	1.98	0.45
2:QD:137:LEU:HD11	2:QD:159:ALA:HB2	1.98	0.45
2:QG:125:LYS:NZ	2:QG:168:GLU:O	2.30	0.45
2:QK:63:PRO:HB2	2:QK:85:GLU:HG2	1.99	0.45
2:Qh:56:LYS:HD2	4:RS:56:PHE:HD1	1.82	0.45
2:Qn:156:ASN:HB3	2:Qn:178:PHE:CZ	2.52	0.45
2:Qr:138:ASN:ND2	2:Qr:153:LYS:HE2	2.32	0.45
4:RG:22:MET:HE2	4:RG:25:PRO:HA	1.98	0.45
1:TK:261:ILE:HD12	1:TK:312:LEU:HD23	1.98	0.45
1:TP:101:SER:OG	1:TP:102:ASP:N	2.50	0.45
1:Tc:282:ASN:OD1	1:Tc:283:GLU:N	2.50	0.45
1:Tg:85:GLN:HE22	1:Ul:289:SER:HB2	1.82	0.45
1:Th:259:ILE:HB	1:Th:314:VAL:HB	1.98	0.45
1:Tn:205:VAL:HG12	1:Tn:259:ILE:HG23	1.98	0.45
1:Tt:261:ILE:HD12	1:Tt:312:LEU:HD23	1.98	0.45
1:Tu:84:LEU:HB3	1:Tx:57:PRO:HB2	1.98	0.45
1:UH:48:LYS:HD2	4:WI:32:LEU:HD22	1.99	0.45
1:UM:86:TYR:HE1	1:Uc:57:PRO:HA	1.82	0.45
1:UQ:163:GLU:HB3	1:UQ:308:ARG:HG3	1.99	0.45
1:UR:79:LEU:HD11	1:UR:305:LEU:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Uk:49:TRP:CE3	1:Uk:74:SER:HB3	2.52	0.45
2:Uq:69:TYR:HB2	2:Uq:101:ILE:HD12	1.98	0.45
4:Vs:127:TYR:CE1	4:Vs:180:LYS:HB2	2.51	0.45
4:WN:51:THR:HG21	4:WN:180:LYS:HE3	1.98	0.45
6:Xy:201:GLN:HB3	6:Xy:248:LEU:HD13	1.97	0.45
6:Xy:320:ASN:HB3	6:Xy:368:GLN:HE22	1.82	0.45
5:Yc:79:GLU:O	5:Yc:83:ILE:HG12	2.17	0.45
5:Yz:112:ASP:OD1	5:Yz:115:GLN:NE2	2.49	0.45
5:ZH:103:LEU:HD12	5:ZH:113:ILE:HG23	1.99	0.45
5:ZK:113:ILE:O	5:ZK:117:GLN:HG2	2.17	0.45
5:ZQ:153:SER:HB2	5:ZR:133:ALA:HB1	1.99	0.45
5:Zj:122:VAL:HG11	5:Zj:151:LEU:HD13	1.99	0.45
5:Zk:75:GLN:O	5:Zk:79:GLU:HG2	2.17	0.45
5:Zm:94:LEU:HD11	5:Zm:121:LEU:HG	1.98	0.45
5:Zp:112:ASP:OD1	5:Zp:115:GLN:NE2	2.49	0.45
5:Zx:112:ASP:OD1	5:Zx:115:GLN:NE2	2.49	0.45
5:aE:62:GLU:OE1	5:ak:97:HIS:NE2	2.50	0.45
5:ag:86:ILE:HD11	5:ag:118:ARG:HE	1.81	0.45
5:ak:79:GLU:O	5:ak:83:ILE:HG12	2.17	0.45
5:ak:86:ILE:HD11	5:ak:118:ARG:HE	1.81	0.45
5:am:86:ILE:HD11	5:am:118:ARG:HE	1.81	0.45
5:am:99:ASN:O	5:am:103:LEU:HG	2.17	0.45
5:ao:79:GLU:O	5:ao:83:ILE:HG12	2.17	0.45
5:bP:122:VAL:HG11	5:bP:151:LEU:HD13	1.99	0.45
5:bQ:55:ILE:HG21	5:bw:116:ALA:HB2	1.99	0.45
5:bX:122:VAL:HG11	5:bX:151:LEU:HD13	1.99	0.45
5:bj:112:ASP:OD1	5:bj:115:GLN:NE2	2.49	0.45
5:bm:86:ILE:HD11	5:bm:118:ARG:HE	1.82	0.45
5:bo:79:GLU:O	5:bo:83:ILE:HG12	2.17	0.45
5:bs:86:ILE:HD11	5:bs:118:ARG:HE	1.81	0.45
5:bs:98:PHE:HB3	5:bs:117:GLN:HE22	1.82	0.45
5:by:79:GLU:O	5:by:83:ILE:HG12	2.17	0.45
5:cP:122:VAL:HG11	5:cP:151:LEU:HD13	1.98	0.45
5:cX:122:VAL:HG11	5:cX:151:LEU:HD13	1.98	0.45
5:cc:79:GLU:O	5:cc:83:ILE:HG12	2.17	0.45
5:cq:75:GLN:O	5:cq:79:GLU:HG2	2.17	0.45
5:cy:113:ILE:O	5:cy:117:GLN:HG2	2.16	0.45
5:dF:122:VAL:HG11	5:dF:151:LEU:HD13	1.98	0.45
5:dW:75:GLN:O	5:dW:79:GLU:HG2	2.17	0.45
5:dr:112:ASP:OD1	5:dr:115:GLN:NE2	2.48	0.45
5:dy:59:ILE:O	5:dy:63:LEU:HD23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eO:79:GLU:O	5:eO:83:ILE:HG12	2.17	0.45
5:eR:118:ARG:O	5:eR:122:VAL:HG23	2.17	0.45
5:ej:74:LYS:HE3	5:ek:111:LYS:HZ2	1.82	0.45
5:ej:118:ARG:O	5:ej:122:VAL:HG23	2.17	0.45
5:ek:143:ILE:HG22	5:ek:143:ILE:O	2.17	0.45
5:em:75:GLN:O	5:em:79:GLU:HG2	2.17	0.45
5:ew:79:GLU:O	5:ew:83:ILE:HG12	2.17	0.45
5:ey:113:ILE:O	5:ey:117:GLN:HG2	2.17	0.45
5:fC:79:GLU:O	5:fC:83:ILE:HG12	2.17	0.45
5:fG:75:GLN:O	5:fG:79:GLU:HG2	2.17	0.45
5:fO:75:GLN:O	5:fO:79:GLU:HG2	2.17	0.45
5:fS:79:GLU:O	5:fS:83:ILE:HG12	2.17	0.45
5:fU:79:GLU:O	5:fU:83:ILE:HG12	2.17	0.45
5:fX:122:VAL:HG11	5:fX:151:LEU:HD13	1.99	0.45
5:fe:75:GLN:O	5:fe:79:GLU:HG2	2.17	0.45
5:fg:75:GLN:O	5:fg:79:GLU:HG2	2.17	0.45
5:fg:113:ILE:O	5:fg:117:GLN:HG2	2.17	0.45
5:fj:122:VAL:HG11	5:fj:151:LEU:HD13	1.98	0.45
5:gC:113:ILE:O	5:gC:117:GLN:HG2	2.17	0.45
1:AB:49:TRP:CE3	1:TK:113:LEU:HD11	2.53	0.44
1:AF:49:TRP:CZ3	1:AF:74:SER:HB3	2.52	0.44
1:AF:239:LYS:NZ	1:AF:245:GLU:O	2.50	0.44
1:Ae:142:GLN:OE1	1:Ae:147:ASN:ND2	2.40	0.44
1:Ak:57:PRO:HB2	1:Ao:84:LEU:HB3	1.99	0.44
1:An:54:ASN:OD1	2:CJ:47:ASN:ND2	2.35	0.44
1:Ao:165:ILE:H	1:Ao:165:ILE:HD12	1.82	0.44
1:At:163:GLU:OE2	1:At:308:ARG:NH2	2.49	0.44
1:Au:96:GLU:O	1:Au:100:THR:HG23	2.16	0.44
1:BB:133:PHE:O	1:BB:137:GLY:N	2.41	0.44
1:BW:257:HIS:CE1	1:BW:318:GLN:HG3	2.51	0.44
1:BX:49:TRP:CE3	1:BX:74:SER:HB3	2.52	0.44
1:Be:45:LYS:HA	1:Be:77:VAL:O	2.18	0.44
2:Bj:56:LYS:HD2	4:Ck:56:PHE:HD1	1.82	0.44
2:Br:137:LEU:HD11	2:Br:159:ALA:HB2	1.99	0.44
2:CK:156:ASN:ND2	2:CK:180:ASN:O	2.50	0.44
2:CO:165:LYS:HE3	2:CO:168:GLU:HA	1.98	0.44
2:CY:138:ASN:ND2	2:CY:153:LYS:HE2	2.32	0.44
4:Ck:69:TYR:HB2	4:Ck:108:ILE:HD12	1.98	0.44
4:Cm:133:SER:HB3	4:Cm:177:TYR:CE1	2.52	0.44
4:Cx:37:GLU:HG3	4:Cx:39:ARG:H	1.82	0.44
4:DC:43:VAL:O	4:DC:43:VAL:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FF:211:LEU:O	1:FF:214:VAL:HG22	2.17	0.44
1:FR:66:THR:HG22	2:Gq:52:CYS:SG	2.57	0.44
1:FU:205:VAL:HG12	1:FU:259:ILE:HG23	1.98	0.44
1:Fa:257:HIS:HB3	1:Fa:316:ILE:HB	1.99	0.44
1:Fw:91:LEU:HD21	1:Fw:112:LEU:HD13	1.99	0.44
1:GD:66:THR:HG22	2:HP:52:CYS:HB3	1.98	0.44
1:GD:173:ASP:HB3	1:GD:179:LYS:HG3	1.98	0.44
1:GM:49:TRP:CE3	1:GM:74:SER:HB3	2.52	0.44
1:GO:48:LYS:HB3	1:GO:75:GLU:HB3	1.99	0.44
2:Gf:62:TYR:HE1	4:Hd:52:ARG:HH12	1.65	0.44
2:HD:165:LYS:HE3	2:HD:168:GLU:HA	1.98	0.44
2:HW:102:ASP:HB2	1:LB:62:ASN:ND2	2.31	0.44
1:Jf:36:ASP:CG	5:Mp:214:ARG:HH22	2.25	0.44
1:Jj:196:GLU:HB3	1:Jj:265:ASN:HD22	1.83	0.44
1:Jr:86:TYR:OH	1:Jx:55:ALA:O	2.29	0.44
1:KB:24:ILE:HG12	1:KB:131:ASN:ND2	2.32	0.44
1:KB:113:LEU:HD11	1:On:49:TRP:CE3	2.52	0.44
1:KC:85:GLN:HE22	1:LH:289:SER:HB2	1.82	0.44
1:KI:77:VAL:HG11	1:KI:305:LEU:HD13	1.99	0.44
1:KW:49:TRP:CZ3	1:KW:74:SER:HB3	2.52	0.44
1:Kf:133:PHE:O	1:Kf:137:GLY:N	2.41	0.44
1:Kg:317:LYS:HE2	1:Kg:319:SER:HB2	1.97	0.44
1:Kk:59:THR:HG21	2:Lx:107:MET:HE3	1.99	0.44
1:Kk:163:GLU:O	1:Kk:164:GLN:NE2	2.50	0.44
1:Kw:67:ILE:HG13	1:LD:296:TYR:HE2	1.82	0.44
1:LD:81:TYR:OH	1:LD:272:LYS:O	2.22	0.44
1:LH:79:LEU:HD11	1:LH:305:LEU:HB2	1.99	0.44
2:Lo:165:LYS:HB2	2:Lo:171:PHE:CE2	2.52	0.44
2:ML:61:ASN:ND2	1:Pq:59:THR:O	2.50	0.44
3:MN:104:LYS:H	3:MN:162:ASN:ND2	2.15	0.44
1:OV:49:TRP:CZ3	1:OV:74:SER:HB3	2.52	0.44
1:OV:86:TYR:OH	1:TJ:55:ALA:O	2.34	0.44
1:Oe:143:LYS:HA	4:RF:39:ARG:HE	1.82	0.44
1:Ok:174:LYS:O	1:Ok:212:LYS:NZ	2.50	0.44
1:Om:165:ILE:HD13	1:Om:191:LEU:HD23	1.99	0.44
1:Or:196:GLU:HB2	1:Or:268:LEU:HD11	1.99	0.44
1:Ou:69:THR:HA	1:Tk:87:LYS:O	2.16	0.44
1:Ov:80:ASN:HB2	1:Ov:155:MET:HG3	1.99	0.44
1:Oy:143:LYS:HE3	4:RN:40:ASP:HB2	1.98	0.44
1:Oz:41:MET:HE3	1:Oz:83:LYS:HB3	1.98	0.44
1:PB:196:GLU:HB3	1:PB:265:ASN:HD22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PI:81:TYR:OH	1:PI:272:LYS:O	2.27	0.44
1:PL:49:TRP:CZ3	1:PL:74:SER:HB3	2.52	0.44
1:Pc:277:MET:HA	1:Pc:300:VAL:HB	1.98	0.44
1:Pe:161:MET:SD	2:Qm:31:LEU:HD21	2.57	0.44
1:Pk:41:MET:HE3	1:Pk:82:LEU:HD12	1.99	0.44
1:Pl:80:ASN:ND2	1:Pl:153:PRO:O	2.50	0.44
1:Pl:152:LEU:HD21	2:Qu:105:SER:HA	2.00	0.44
1:Pm:43:TYR:HE2	1:Pm:45:LYS:HE2	1.82	0.44
1:Pq:49:TRP:CZ3	1:Pq:74:SER:HB3	2.52	0.44
1:Ps:8:TYR:CD2	1:Ps:93:GLN:HG3	2.52	0.44
1:Pu:77:VAL:HG11	1:Pu:305:LEU:HD13	1.99	0.44
1:Pu:307:THR:HB	1:Pu:310:THR:HG21	1.99	0.44
1:Pw:96:GLU:O	1:Pw:100:THR:HG23	2.18	0.44
2:QF:45:PHE:HD1	2:QF:172:ILE:HD11	1.81	0.44
2:Qy:75:LEU:HD22	2:Qy:84:LEU:HD13	1.99	0.44
2:RA:77:PHE:CD2	4:Rc:138:LYS:HE2	2.52	0.44
4:RS:133:SER:HB3	4:RS:177:TYR:CE1	2.52	0.44
4:RT:23:LYS:N	4:RT:67:TYR:OH	2.50	0.44
4:RX:52:ARG:HB3	1:UU:66:THR:HG22	1.98	0.44
1:TP:257:HIS:HB3	1:TP:316:ILE:HB	1.99	0.44
1:Ta:165:ILE:HD13	1:Ta:191:LEU:HD23	1.99	0.44
1:Ta:197:PHE:HD2	1:Ta:243:ASN:HB2	1.81	0.44
1:Tk:62:ASN:HB2	3:Vr:156:TYR:CZ	2.52	0.44
1:Tm:65:ASN:HB2	2:VL:59:ILE:H	1.82	0.44
1:Tn:96:GLU:O	1:Tn:100:THR:HG23	2.16	0.44
1:Tt:80:ASN:ND2	1:Tt:153:PRO:O	2.50	0.44
1:Tu:39:LEU:O	1:Tu:274:SER:OG	2.29	0.44
1:Tx:163:GLU:HB3	1:Tx:308:ARG:HG3	1.99	0.44
1:Ty:211:LEU:O	1:Ty:214:VAL:HG22	2.17	0.44
1:UK:181:PHE:CZ	1:UK:234:LEU:HB2	2.53	0.44
1:UP:307:THR:HG22	2:Ve:32:LEU:HB2	1.99	0.44
1:UT:80:ASN:ND2	1:UT:154:ASN:HB2	2.31	0.44
1:UU:178:ASP:OD1	1:UU:178:ASP:N	2.47	0.44
1:UV:132:HIS:HA	1:UV:254:LEU:HD13	1.99	0.44
1:Ua:66:THR:HG22	2:Vp:52:CYS:HB3	1.99	0.44
1:Ua:67:ILE:HG13	1:Uh:296:TYR:HE2	1.82	0.44
1:Ua:80:ASN:ND2	1:Ua:153:PRO:O	2.50	0.44
1:Ue:41:MET:HG2	2:Vo:104:PHE:HE2	1.82	0.44
1:Uf:49:TRP:CE3	1:Uf:74:SER:HB3	2.52	0.44
1:Uh:49:TRP:CZ3	1:Uh:74:SER:HB3	2.52	0.44
2:VW:165:LYS:HE3	2:VW:168:GLU:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Vg:138:ASN:ND2	2:Vg:153:LYS:HE2	2.32	0.44
4:WD:144:ASN:OD1	4:WD:148:ALA:N	2.49	0.44
6:Xy:348:LEU:HD23	6:Xy:348:LEU:HA	1.86	0.44
5:YP:59:ILE:HG13	5:Ye:146:GLU:HB2	2.00	0.44
5:YQ:84:ASN:OD1	5:YQ:85:GLU:N	2.50	0.44
5:YS:125:PHE:HB3	5:YS:158:ASN:HB3	1.99	0.44
5:YU:119:ARG:HG2	5:YU:140:ILE:HG22	1.99	0.44
5:Yd:131:ILE:HD13	5:Yd:140:ILE:HD11	1.99	0.44
5:ZH:118:ARG:O	5:ZH:122:VAL:HG23	2.16	0.44
5:ZS:109:THR:O	5:ZS:113:ILE:HG13	2.17	0.44
5:ZW:103:LEU:HD12	5:ZW:113:ILE:HG23	1.98	0.44
5:ZY:75:GLN:O	5:ZY:79:GLU:HG2	2.18	0.44
5:aM:75:GLN:O	5:aM:79:GLU:HG2	2.17	0.44
5:aX:122:VAL:HG11	5:aX:151:LEU:HD13	1.99	0.44
5:aY:86:ILE:HD11	5:aY:118:ARG:HE	1.81	0.44
5:ai:79:GLU:O	5:ai:83:ILE:HG12	2.17	0.44
5:am:79:GLU:O	5:am:83:ILE:HG12	2.17	0.44
5:bU:79:GLU:O	5:bU:83:ILE:HG12	2.17	0.44
5:bi:55:ILE:HG21	5:cO:116:ALA:HB2	1.99	0.44
5:cG:55:ILE:HG21	5:cm:116:ALA:HB2	1.98	0.44
5:cK:79:GLU:O	5:cK:83:ILE:HG12	2.17	0.44
5:cL:122:VAL:HG11	5:cL:151:LEU:HD13	1.99	0.44
5:cM:79:GLU:O	5:cM:83:ILE:HG12	2.17	0.44
5:dC:113:ILE:O	5:dC:117:GLN:HG2	2.17	0.44
5:dE:113:ILE:O	5:dE:117:GLN:HG2	2.17	0.44
5:dS:113:ILE:O	5:dS:117:GLN:HG2	2.17	0.44
5:dl:112:ASP:OD1	5:dl:115:GLN:NE2	2.49	0.44
5:dm:143:ILE:HG22	5:dm:143:ILE:O	2.17	0.44
5:du:143:ILE:HG22	5:du:143:ILE:O	2.17	0.44
5:dx:146:GLU:CD	5:ee:58:ARG:HH21	2.25	0.44
5:dz:136:LYS:HE3	5:dz:136:LYS:HB2	1.78	0.44
5:eP:118:ARG:O	5:eP:122:VAL:HG23	2.17	0.44
5:eQ:75:GLN:O	5:eQ:79:GLU:HG2	2.17	0.44
5:eT:118:ARG:O	5:eT:122:VAL:HG23	2.17	0.44
5:eq:79:GLU:O	5:eq:83:ILE:HG12	2.16	0.44
5:es:94:LEU:HD11	5:es:121:LEU:HG	1.99	0.44
5:fE:75:GLN:O	5:fE:79:GLU:HG2	2.17	0.44
5:fi:113:ILE:O	5:fi:117:GLN:HG2	2.17	0.44
5:fk:75:GLN:O	5:fk:79:GLU:HG2	2.17	0.44
5:fm:113:ILE:O	5:fm:117:GLN:HG2	2.17	0.44
5:fo:75:GLN:O	5:fo:79:GLU:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fq:113:ILE:O	5:fq:117:GLN:HG2	2.17	0.44
5:fs:75:GLN:O	5:fs:79:GLU:HG2	2.17	0.44
5:fx:122:VAL:HG11	5:fx:151:LEU:HD13	1.99	0.44
5:gA:79:GLU:O	5:gA:83:ILE:HG12	2.17	0.44
1:AG:196:GLU:HB3	1:AG:265:ASN:ND2	2.32	0.44
1:AL:283:GLU:HB2	5:DV:199:PHE:CD2	2.53	0.44
1:Ah:55:ALA:O	1:Al:86:TYR:OH	2.27	0.44
1:An:107:ASP:OD2	1:An:110:ASN:ND2	2.51	0.44
1:Ap:142:GLN:NE2	1:Ap:147:ASN:OD1	2.50	0.44
1:Ar:306:ALA:O	2:Gs:31:LEU:HD23	2.17	0.44
1:As:49:TRP:CZ3	1:As:74:SER:HB3	2.52	0.44
1:BB:49:TRP:CZ3	1:BB:74:SER:HB3	2.52	0.44
1:BC:257:HIS:HB2	1:BC:316:ILE:HB	2.00	0.44
1:BN:259:ILE:HB	1:BN:314:VAL:HB	2.00	0.44
1:BR:21:LYS:NZ	1:Fq:195:ASP:OD2	2.49	0.44
1:BZ:272:LYS:N	1:BZ:303:GLY:O	2.44	0.44
2:Bl:64:ALA:HB2	2:Bl:108:ALA:HB2	1.98	0.44
2:Br:23:LYS:N	2:Br:67:TYR:OH	2.49	0.44
2:CJ:165:LYS:HE3	2:CJ:168:GLU:HA	1.99	0.44
3:Cj:180:ILE:HG12	3:Cj:203:TYR:CE1	2.52	0.44
1:Ev:152:LEU:HD21	2:Ga:105:SER:HA	1.99	0.44
1:FG:261:ILE:HD12	1:FG:312:LEU:HD23	1.98	0.44
1:FO:28:TRP:CZ3	1:FO:135:LEU:HB2	2.52	0.44
1:FS:77:VAL:HG11	1:FS:305:LEU:HD13	1.99	0.44
1:Fg:178:ASP:OD1	1:Fg:179:LYS:N	2.49	0.44
1:GA:161:MET:SD	2:HI:31:LEU:HD21	2.57	0.44
1:GA:205:VAL:HG12	1:GA:259:ILE:HG23	1.98	0.44
1:GC:132:HIS:HA	1:GC:254:LEU:HD13	1.99	0.44
1:GL:41:MET:HG2	2:HV:104:PHE:HE2	1.82	0.44
1:GL:49:TRP:CH2	1:GL:74:SER:HB3	2.51	0.44
1:GL:259:ILE:HB	1:GL:314:VAL:HB	1.99	0.44
1:GN:41:MET:HE3	1:GN:82:LEU:HD12	1.98	0.44
2:Gg:137:LEU:HD11	2:Gg:159:ALA:HB2	1.99	0.44
2:Gu:140:ASN:HD21	2:Gu:144:GLU:HB2	1.82	0.44
2:Gw:56:LYS:HD2	4:Hm:56:PHE:HA	1.98	0.44
2:HR:116:ASN:ND2	4:Hv:60:GLU:OE2	2.50	0.44
2:HV:116:ASN:ND2	4:Hx:60:GLU:OE2	2.51	0.44
4:He:77:ILE:HG12	4:He:91:PRO:HB3	1.99	0.44
4:Hy:78:GLN:HE22	4:Hy:89:TYR:HB2	1.81	0.44
1:Je:39:LEU:O	1:Je:274:SER:OG	2.25	0.44
1:Jw:24:ILE:HG12	1:Jw:131:ASN:HD22	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KC:54:ASN:HB3	2:LY:51:VAL:HG12	1.98	0.44
1:KK:80:ASN:ND2	1:KK:153:PRO:O	2.50	0.44
1:KO:57:PRO:HB2	1:KS:84:LEU:HB3	1.99	0.44
1:KU:211:LEU:O	1:KU:214:VAL:HG22	2.17	0.44
1:KV:157:GLY:N	1:KV:160:ASN:OD1	2.38	0.44
1:Ke:26:TYR:O	5:No:218:TYR:OH	2.23	0.44
1:Ke:66:THR:HG22	2:Lq:52:CYS:HB3	2.00	0.44
1:Ki:86:TYR:HE1	1:Ky:57:PRO:HA	1.82	0.44
1:Kw:80:ASN:ND2	1:Kw:153:PRO:O	2.50	0.44
1:LB:49:TRP:CE3	1:LB:74:SER:HB3	2.52	0.44
1:LF:257:HIS:CE1	1:LF:318:GLN:HG3	2.52	0.44
1:LI:81:TYR:OH	1:LI:272:LYS:O	2.29	0.44
2:LJ:183:ILE:HA	2:LL:183:ILE:HG12	1.99	0.44
2:LV:63:PRO:HB2	2:LV:85:GLU:HG2	1.99	0.44
2:Lb:156:ASN:HB3	2:Lb:178:PHE:CZ	2.51	0.44
2:Lg:133:PRO:HG3	2:Lg:161:SER:HA	1.99	0.44
4:Mg:43:VAL:O	4:Mg:43:VAL:HG13	2.17	0.44
1:Oe:283:GLU:HB2	5:Ro:199:PHE:CD2	2.53	0.44
1:Og:80:ASN:HD22	1:Og:154:ASN:HB2	1.82	0.44
1:Oj:211:LEU:O	1:Oj:214:VAL:HG22	2.17	0.44
1:Ov:66:THR:HG22	2:QU:52:CYS:SG	2.57	0.44
1:Ox:77:VAL:HG11	1:Ox:305:LEU:HD13	1.99	0.44
1:PD:57:PRO:HB2	1:PH:84:LEU:HB3	1.99	0.44
1:PF:194:GLY:HA3	4:RP:36:ASN:HB2	1.98	0.44
1:Ph:66:THR:HG22	2:Qt:52:CYS:HB3	1.98	0.44
1:Pi:308:ARG:O	2:Qq:34:ASN:ND2	2.44	0.44
1:Pp:41:MET:HG2	2:Qz:104:PHE:HE2	1.83	0.44
1:Pu:26:TYR:O	5:TE:218:TYR:OH	2.33	0.44
1:Pv:49:TRP:CE3	1:Pv:74:SER:HB3	2.52	0.44
1:Pw:239:LYS:HA	1:Pw:242:ASN:OD1	2.17	0.44
1:Px:45:LYS:HA	1:Px:77:VAL:O	2.18	0.44
1:Px:54:ASN:HD22	1:Px:69:THR:C	2.25	0.44
2:QR:133:PRO:HG3	2:QR:161:SER:HA	1.99	0.44
2:Qh:165:LYS:HE3	2:Qh:168:GLU:HA	1.98	0.44
4:RO:144:ASN:OD1	4:RO:148:ALA:N	2.48	0.44
1:TK:165:ILE:HD13	1:TK:191:LEU:HD23	1.99	0.44
1:TQ:201:MET:HE3	1:TQ:201:MET:HB3	1.89	0.44
1:TX:261:ILE:HD12	1:TX:312:LEU:HD23	1.98	0.44
1:TZ:174:LYS:O	1:TZ:212:LYS:NZ	2.50	0.44
1:Th:77:VAL:HG13	4:Vz:29:ALA:O	2.16	0.44
1:Ti:96:GLU:O	1:Ti:100:THR:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ti:152:LEU:HD21	2:VH:105:SER:HA	1.99	0.44
1:Tn:210:SER:OG	1:Ty:244:ARG:NH1	2.50	0.44
1:Tw:165:ILE:H	1:Tw:165:ILE:HD12	1.82	0.44
1:UA:282:ASN:OD1	1:UA:283:GLU:N	2.49	0.44
1:UO:59:THR:HG21	2:Vb:107:MET:HE3	2.00	0.44
1:Ub:49:TRP:CH2	1:Ub:74:SER:HB3	2.52	0.44
1:Ub:259:ILE:HB	1:Ub:314:VAL:HB	1.98	0.44
1:Ue:49:TRP:CH2	1:Ue:74:SER:HB3	2.51	0.44
1:Uj:77:VAL:HG11	1:Uj:305:LEU:HD13	1.99	0.44
1:Ul:79:LEU:HD11	1:Ul:305:LEU:HB2	1.99	0.44
1:Ul:152:LEU:HD21	2:VF:105:SER:HA	2.00	0.44
2:Uz:23:LYS:N	2:Uz:67:TYR:OH	2.49	0.44
2:Uz:63:PRO:HB2	2:Uz:85:GLU:HG2	1.99	0.44
3:Vr:104:LYS:H	3:Vr:162:ASN:ND2	2.15	0.44
3:Vr:171:ARG:HB3	3:Vr:188:VAL:HG11	1.98	0.44
4:WH:78:GLN:NE2	4:WH:89:TYR:HB2	2.32	0.44
4:WL:144:ASN:OD1	4:WL:148:ALA:N	2.42	0.44
6:YD:35:ASP:OD2	6:YD:329:TYR:OH	2.20	0.44
5:YJ:113:ILE:O	5:YJ:117:GLN:HG2	2.16	0.44
5:YM:77:LEU:O	5:YM:81:GLU:HG2	2.17	0.44
5:YN:79:GLU:HA	5:YN:82:ARG:HE	1.83	0.44
5:YP:82:ARG:O	5:YP:86:ILE:HG12	2.17	0.44
5:YQ:126:VAL:HG22	5:YQ:154:LEU:HG	1.98	0.44
5:YU:73:GLU:O	5:YU:77:LEU:HG	2.17	0.44
5:YZ:122:VAL:HG11	5:YZ:151:LEU:HD13	1.99	0.44
5:Yd:154:LEU:HD22	5:Ye:134:ILE:HD11	1.99	0.44
5:Ye:156:LYS:HA	5:Ye:159:ILE:HG22	1.98	0.44
5:Yn:131:ILE:HD13	5:Yn:140:ILE:HD11	1.98	0.44
5:Yp:76:LEU:HD22	5:Yq:76:LEU:HD21	1.97	0.44
5:Yw:59:ILE:HG13	5:Zk:98:PHE:HE2	1.82	0.44
5:ZH:84:ASN:HD21	5:ZI:84:ASN:HB2	1.82	0.44
5:ZH:112:ASP:OD1	5:ZH:115:GLN:NE2	2.48	0.44
5:ZI:75:GLN:O	5:ZI:79:GLU:HG2	2.16	0.44
5:ZM:94:LEU:HD11	5:ZM:121:LEU:HG	1.99	0.44
5:ZT:112:ASP:OD1	5:ZT:115:GLN:NE2	2.48	0.44
5:Zm:75:GLN:O	5:Zm:79:GLU:HG2	2.18	0.44
5:Zo:119:ARG:HB3	5:Zo:123:ARG:NH1	2.33	0.44
5:aO:75:GLN:O	5:aO:79:GLU:HG2	2.18	0.44
5:aQ:75:GLN:O	5:aQ:79:GLU:HG2	2.18	0.44
5:aQ:79:GLU:O	5:aQ:83:ILE:HG12	2.17	0.44
5:ac:113:ILE:O	5:ac:117:GLN:HG2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:av:112:ASP:OD1	5:av:115:GLN:NE2	2.50	0.44
5:ax:75:GLN:NE2	5:ax:79:GLU:OE1	2.45	0.44
5:bE:113:ILE:O	5:bE:117:GLN:HG2	2.17	0.44
5:bI:99:ASN:O	5:bI:103:LEU:HG	2.15	0.44
5:bL:122:VAL:HG11	5:bL:151:LEU:HD13	1.99	0.44
5:bM:62:GLU:OE1	5:bs:97:HIS:NE2	2.50	0.44
5:bU:55:ILE:HG21	5:cA:116:ALA:HB2	1.99	0.44
5:bX:112:ASP:OD1	5:bX:115:GLN:NE2	2.49	0.44
5:be:79:GLU:O	5:be:83:ILE:HG12	2.17	0.44
5:bk:99:ASN:O	5:bk:103:LEU:HG	2.16	0.44
5:bm:75:GLN:O	5:bm:79:GLU:HG2	2.17	0.44
5:bm:99:ASN:O	5:bm:103:LEU:HG	2.16	0.44
5:bo:75:GLN:O	5:bo:79:GLU:HG2	2.18	0.44
5:bq:75:GLN:O	5:bq:79:GLU:HG2	2.18	0.44
5:bu:75:GLN:O	5:bu:79:GLU:HG2	2.17	0.44
5:cC:75:GLN:O	5:cC:79:GLU:HG2	2.18	0.44
5:cQ:79:GLU:O	5:cQ:83:ILE:HG12	2.17	0.44
5:cS:75:GLN:O	5:cS:79:GLU:HG2	2.18	0.44
5:ch:112:ASP:OD1	5:ch:115:GLN:NE2	2.49	0.44
5:co:75:GLN:O	5:co:79:GLU:HG2	2.18	0.44
5:co:113:ILE:O	5:co:117:GLN:HG2	2.17	0.44
5:cp:112:ASP:OD1	5:cp:115:GLN:NE2	2.49	0.44
5:cs:75:GLN:O	5:cs:79:GLU:HG2	2.18	0.44
5:dQ:99:ASN:HB3	5:dQ:102:VAL:HG22	2.00	0.44
5:dV:122:VAL:HG11	5:dV:151:LEU:HD13	1.99	0.44
5:dh:112:ASP:OD1	5:dh:115:GLN:NE2	2.48	0.44
5:dj:136:LYS:HE3	5:dj:136:LYS:HB2	1.75	0.44
5:eD:112:ASP:OD1	5:eD:115:GLN:NE2	2.49	0.44
5:eG:63:LEU:HD11	5:ep:136:LYS:HD2	1.99	0.44
5:ea:94:LEU:HD11	5:ea:121:LEU:HG	1.98	0.44
5:ei:79:GLU:O	5:ei:83:ILE:HG12	2.17	0.44
5:ep:112:ASP:OD1	5:ep:115:GLN:NE2	2.48	0.44
5:eu:113:ILE:O	5:eu:117:GLN:HG2	2.17	0.44
5:eu:116:ALA:HB1	5:fa:55:ILE:HD13	1.99	0.44
5:ey:116:ALA:HB1	5:fe:55:ILE:HD13	1.98	0.44
5:fD:122:VAL:HG11	5:fD:151:LEU:HD13	1.99	0.44
5:fQ:75:GLN:O	5:fQ:79:GLU:HG2	2.17	0.44
5:fQ:113:ILE:O	5:fQ:117:GLN:HG2	2.17	0.44
5:fS:113:ILE:O	5:fS:117:GLN:HG2	2.17	0.44
5:fd:112:ASP:OD1	5:fd:115:GLN:NE2	2.49	0.44
5:fo:79:GLU:O	5:fo:83:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fs:79:GLU:O	5:fs:83:ILE:HG12	2.17	0.44
1:AC:49:TRP:CZ3	1:AC:74:SER:HB3	2.52	0.44
1:AP:261:ILE:HD12	1:AP:312:LEU:HD23	1.98	0.44
1:AR:261:ILE:HD12	1:AR:312:LEU:HD23	1.98	0.44
1:AS:152:LEU:HD21	2:Bt:105:SER:HA	1.98	0.44
1:Ag:132:HIS:HA	1:Ag:254:LEU:HD13	1.99	0.44
1:As:57:PRO:HB2	1:Az:84:LEU:HD13	1.99	0.44
1:As:59:THR:O	4:DB:61:ASN:ND2	2.51	0.44
1:BG:143:LYS:HA	2:CW:39:ARG:HE	1.82	0.44
1:BJ:196:GLU:HB3	1:BJ:265:ASN:ND2	2.32	0.44
1:BL:80:ASN:ND2	1:BL:154:ASN:HB2	2.31	0.44
1:BM:24:ILE:HG12	1:BM:131:ASN:ND2	2.32	0.44
1:BO:109:ASN:O	2:CP:24:ASN:ND2	2.49	0.44
1:Bc:49:TRP:CE3	1:Bc:74:SER:HB3	2.52	0.44
1:Bd:239:LYS:HA	1:Bd:242:ASN:OD1	2.17	0.44
2:CP:75:LEU:HD23	2:CP:75:LEU:HA	1.87	0.44
4:Cv:144:ASN:OD1	4:Cv:148:ALA:N	2.49	0.44
1:Eq:152:LEU:HD21	2:GU:105:SER:HA	2.00	0.44
1:Er:165:ILE:HD13	1:Er:191:LEU:HD23	1.99	0.44
1:Ew:101:SER:OG	1:Ew:102:ASP:N	2.50	0.44
1:FD:169:VAL:HG22	1:FD:183:LYS:HG3	1.99	0.44
1:FH:177:MET:HE3	1:FH:181:PHE:HB2	2.00	0.44
1:FJ:282:ASN:OD1	1:FJ:283:GLU:N	2.50	0.44
1:FX:178:ASP:OD1	1:FX:179:LYS:N	2.50	0.44
1:Fa:80:ASN:ND2	1:Fa:153:PRO:O	2.50	0.44
1:Fd:196:GLU:HB3	1:Fd:265:ASN:ND2	2.31	0.44
1:Fn:197:PHE:HD1	1:Fn:243:ASN:HB2	1.82	0.44
1:Fp:174:LYS:HE3	1:Fp:318:GLN:HG3	1.99	0.44
1:Fu:39:LEU:O	1:Fu:274:SER:OG	2.26	0.44
1:Fv:143:LYS:HA	2:HL:39:ARG:HE	1.82	0.44
1:GH:80:ASN:ND2	1:GH:153:PRO:O	2.50	0.44
1:GI:259:ILE:HB	1:GI:314:VAL:HB	1.98	0.44
1:GO:8:TYR:CD2	1:GO:93:GLN:HG3	2.52	0.44
1:GS:96:GLU:O	1:GS:100:THR:HG23	2.18	0.44
2:Gg:23:LYS:N	2:Gg:67:TYR:OH	2.49	0.44
2:HL:75:LEU:HD22	2:HL:84:LEU:HD13	2.00	0.44
4:Hn:34:ASN:ND2	1:KM:192:GLU:OE1	2.50	0.44
1:Jf:239:LYS:NZ	1:Jf:245:GLU:O	2.46	0.44
1:Ji:157:GLY:N	1:Ji:160:ASN:OD1	2.43	0.44
1:Jl:101:SER:OG	1:Jl:102:ASP:N	2.50	0.44
1:Jq:133:PHE:O	1:Jq:137:GLY:N	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jt:261:ILE:HD12	1:Jt:312:LEU:HD23	1.98	0.44
1:Ju:211:LEU:O	1:Ju:214:VAL:HG22	2.17	0.44
1:Jw:177:MET:HE3	1:Jw:181:PHE:HB2	2.00	0.44
1:KG:169:VAL:HB	1:KG:316:ILE:HA	1.98	0.44
1:Kq:257:HIS:CE1	1:Kq:318:GLN:HG3	2.52	0.44
1:LD:48:LYS:HB3	1:LD:75:GLU:HB3	1.99	0.44
1:LH:96:GLU:O	1:LH:100:THR:HG23	2.18	0.44
1:LH:194:GLY:HA3	2:MM:36:ILE:HG21	2.00	0.44
2:Lg:155:VAL:HG12	2:Lg:178:PHE:HZ	1.82	0.44
2:Ll:56:LYS:HD2	4:Mb:56:PHE:HA	1.98	0.44
2:Lm:137:LEU:HD11	2:Lm:159:ALA:HB2	1.97	0.44
2:Ln:165:LYS:HE3	2:Ln:168:GLU:HA	2.00	0.44
2:MD:23:LYS:N	2:MD:67:TYR:OH	2.48	0.44
3:MN:180:ILE:HG12	3:MN:203:TYR:CE1	2.52	0.44
4:Md:78:GLN:NE2	4:Md:89:TYR:HB2	2.32	0.44
4:Me:149:LEU:HD13	4:Me:181:VAL:HG21	2.00	0.44
1:OU:152:LEU:HD21	2:Py:105:SER:HA	1.99	0.44
1:OW:41:MET:HE3	1:OW:83:LYS:H	1.82	0.44
1:Od:158:LEU:HB3	1:Od:260:LEU:HD21	1.98	0.44
1:On:282:ASN:OD1	1:On:283:GLU:N	2.50	0.44
1:Oq:307:THR:HG22	2:QP:32:LEU:HB2	2.00	0.44
1:PD:196:GLU:OE1	1:PD:265:ASN:ND2	2.47	0.44
1:PI:163:GLU:HB3	1:PI:308:ARG:HG3	1.99	0.44
1:PS:132:HIS:O	1:PS:136:THR:OG1	2.33	0.44
1:PU:133:PHE:O	1:PU:137:GLY:N	2.40	0.44
1:PV:181:PHE:CZ	1:PV:234:LEU:HB2	2.53	0.44
1:PW:13:VAL:HA	1:PW:16:ILE:HG22	1.98	0.44
1:Pa:66:THR:OG1	4:RW:58:LYS:NZ	2.47	0.44
1:Pd:81:TYR:OH	1:Pd:272:LYS:O	2.33	0.44
1:Pm:259:ILE:HB	1:Pm:314:VAL:HB	1.98	0.44
2:QO:156:ASN:OD1	2:QO:181:ARG:HB3	2.16	0.44
1:TT:283:GLU:HB2	5:Wd:199:PHE:CD2	2.53	0.44
1:UK:80:ASN:C	1:UK:81:TYR:HD1	2.26	0.44
1:UL:49:TRP:CZ3	1:UL:74:SER:HB3	2.53	0.44
1:UM:43:TYR:HE2	1:UM:45:LYS:HE2	1.82	0.44
1:UM:175:ASP:HA	1:UM:212:LYS:NZ	2.32	0.44
1:UP:91:LEU:HD21	1:UP:112:LEU:HD13	1.99	0.44
1:UV:259:ILE:HB	1:UV:314:VAL:HB	2.00	0.44
1:UW:33:GLN:NE2	1:UW:269:ILE:O	2.45	0.44
1:Ud:259:ILE:HB	1:Ud:314:VAL:HB	2.00	0.44
2:Uy:62:TYR:HE1	4:Vw:52:ARG:HH12	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VW:140:ASN:HD21	2:VW:144:GLU:HB2	1.81	0.44
2:VX:77:PHE:HB2	4:WI:138:LYS:HE2	1.99	0.44
2:Vg:76:SER:HB3	2:Vg:87:GLU:HG2	1.98	0.44
4:Vu:133:SER:HB3	4:Vu:177:TYR:CE1	2.52	0.44
6:Xx:13:ILE:HG21	6:Xx:167:LEU:HB3	2.00	0.44
6:YA:255:GLU:OE1	6:YA:256:LEU:HD22	2.17	0.44
6:YD:13:ILE:HG21	6:YD:167:LEU:HB3	2.00	0.44
5:YK:55:ILE:O	5:YK:59:ILE:HG12	2.17	0.44
5:YQ:75:GLN:O	5:YQ:79:GLU:HG2	2.17	0.44
5:YV:56:ASN:HB3	5:Ym:123:ARG:NH1	2.33	0.44
5:Yc:58:ARG:HB3	5:ZG:108:TYR:CZ	2.50	0.44
5:Ye:125:PHE:C	5:Ye:158:ASN:HD22	2.26	0.44
5:Yl:118:ARG:O	5:Yl:122:VAL:HG23	2.17	0.44
5:Yo:55:ILE:O	5:Yo:59:ILE:HG12	2.17	0.44
5:Ys:77:LEU:O	5:Ys:81:GLU:HG2	2.16	0.44
5:Yt:130:GLN:OE1	5:Yt:130:GLN:N	2.46	0.44
5:Yu:94:LEU:HD11	5:Yu:121:LEU:HG	1.99	0.44
5:ZF:83:ILE:HG12	5:ZF:114:MET:HG3	1.99	0.44
5:ZI:98:PHE:HB3	5:ZI:117:GLN:HE22	1.82	0.44
5:ZP:118:ARG:O	5:ZP:122:VAL:HG23	2.18	0.44
5:Za:75:GLN:O	5:Za:79:GLU:HG2	2.18	0.44
5:Za:95:SER:HB3	5:Za:98:PHE:HE1	1.83	0.44
5:Zw:113:ILE:O	5:Zw:117:GLN:HG2	2.18	0.44
5:aA:113:ILE:O	5:aA:117:GLN:HG2	2.17	0.44
5:aE:75:GLN:O	5:aE:79:GLU:HG2	2.18	0.44
5:aZ:112:ASP:OD1	5:aZ:115:GLN:NE2	2.49	0.44
5:aa:113:ILE:O	5:aa:117:GLN:HG2	2.17	0.44
5:aq:79:GLU:O	5:aq:83:ILE:HG12	2.17	0.44
5:as:86:ILE:HD11	5:as:118:ARG:HE	1.82	0.44
5:as:113:ILE:O	5:as:117:GLN:HG2	2.17	0.44
5:au:75:GLN:O	5:au:79:GLU:HG2	2.18	0.44
5:aw:79:GLU:O	5:aw:83:ILE:HG12	2.17	0.44
5:ay:113:ILE:O	5:ay:117:GLN:HG2	2.17	0.44
5:bA:113:ILE:O	5:bA:117:GLN:HG2	2.17	0.44
5:bI:79:GLU:O	5:bI:83:ILE:HG12	2.17	0.44
5:bU:113:ILE:O	5:bU:117:GLN:HG2	2.16	0.44
5:bW:79:GLU:O	5:bW:83:ILE:HG12	2.17	0.44
5:bZ:122:VAL:HG11	5:bZ:151:LEU:HD13	1.99	0.44
5:bc:79:GLU:O	5:bc:83:ILE:HG12	2.17	0.44
5:bh:122:VAL:HG11	5:bh:151:LEU:HD13	1.99	0.44
5:cA:75:GLN:O	5:cA:79:GLU:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:cE:79:GLU:O	5:cE:83:ILE:HG12	2.17	0.44
5:cI:79:GLU:O	5:cI:83:ILE:HG12	2.17	0.44
5:cN:112:ASP:OD1	5:cN:115:GLN:NE2	2.50	0.44
5:cQ:98:PHE:HB3	5:cQ:117:GLN:HE22	1.82	0.44
5:ci:79:GLU:O	5:ci:83:ILE:HG12	2.17	0.44
5:ck:79:GLU:O	5:ck:83:ILE:HG12	2.17	0.44
5:ck:113:ILE:O	5:ck:117:GLN:HG2	2.16	0.44
5:cs:113:ILE:O	5:cs:117:GLN:HG2	2.16	0.44
5:cw:75:GLN:O	5:cw:79:GLU:HG2	2.18	0.44
5:cw:79:GLU:O	5:cw:83:ILE:HG12	2.17	0.44
5:dB:122:VAL:HG11	5:dB:151:LEU:HD13	1.99	0.44
5:dH:112:ASP:OD1	5:dH:115:GLN:NE2	2.48	0.44
5:dI:55:ILE:HD13	5:do:116:ALA:HB1	1.98	0.44
5:dK:75:GLN:O	5:dK:79:GLU:HG2	2.18	0.44
5:dQ:79:GLU:O	5:dQ:83:ILE:HG12	2.17	0.44
5:dQ:86:ILE:HD11	5:dQ:118:ARG:HE	1.81	0.44
5:dQ:94:LEU:HD11	5:dQ:121:LEU:HG	1.99	0.44
5:dS:75:GLN:O	5:dS:79:GLU:HG2	2.18	0.44
5:de:113:ILE:O	5:de:117:GLN:HG2	2.17	0.44
5:dh:74:LYS:HE3	5:eK:111:LYS:HZ2	1.81	0.44
5:do:75:GLN:O	5:do:79:GLU:HG2	2.18	0.44
5:dy:79:GLU:O	5:dy:83:ILE:HG12	2.18	0.44
5:eE:146:GLU:H	5:em:56:ASN:HB2	1.82	0.44
5:eK:63:LEU:HD11	5:eN:136:LYS:HD2	1.99	0.44
5:eL:118:ARG:O	5:eL:122:VAL:HG23	2.18	0.44
5:eN:118:ARG:O	5:eN:122:VAL:HG23	2.17	0.44
5:eV:118:ARG:O	5:eV:122:VAL:HG23	2.18	0.44
5:ec:79:GLU:O	5:ec:83:ILE:HG12	2.17	0.44
5:ef:118:ARG:O	5:ef:122:VAL:HG23	2.17	0.44
5:ei:94:LEU:HD11	5:ei:121:LEU:HG	1.98	0.44
5:ek:75:GLN:O	5:ek:79:GLU:HG2	2.16	0.44
5:en:118:ARG:O	5:en:122:VAL:HG23	2.17	0.44
5:es:75:GLN:O	5:es:79:GLU:HG2	2.17	0.44
5:eu:75:GLN:O	5:eu:79:GLU:HG2	2.17	0.44
5:fI:75:GLN:O	5:fI:79:GLU:HG2	2.17	0.44
5:fY:113:ILE:O	5:fY:117:GLN:HG2	2.17	0.44
5:fq:79:GLU:O	5:fq:83:ILE:HG12	2.17	0.44
5:fr:112:ASP:OD1	5:fr:115:GLN:NE2	2.48	0.44
5:gC:79:GLU:O	5:gC:83:ILE:HG12	2.17	0.44
1:AD:41:MET:HE3	1:AD:83:LYS:H	1.82	0.44
1:AM:80:ASN:ND2	1:AM:153:PRO:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:24:ILE:HG12	1:AO:131:ASN:ND2	2.32	0.44
1:AS:137:GLY:HA3	1:AS:160:ASN:OD1	2.17	0.44
1:Ac:57:PRO:HB2	1:Ae:84:LEU:HB3	1.98	0.44
1:Ag:41:MET:HE3	1:Ag:83:LYS:HB3	1.98	0.44
1:Ai:192:GLU:OE1	4:WG:34:ASN:ND2	2.50	0.44
1:Aj:305:LEU:HD11	4:Cv:32:LEU:HG	2.00	0.44
1:BA:174:LYS:HE3	1:BA:318:GLN:HG3	1.99	0.44
1:BC:181:PHE:CZ	1:BC:234:LEU:HB2	2.53	0.44
1:BD:49:TRP:CZ3	1:BD:74:SER:HB3	2.53	0.44
1:BN:132:HIS:HA	1:BN:254:LEU:HD13	1.99	0.44
1:BV:259:ILE:HB	1:BV:314:VAL:HB	1.99	0.44
1:BW:173:ASP:HB3	1:BW:179:LYS:HG3	1.99	0.44
1:Bd:152:LEU:HD21	2:Bx:105:SER:HA	2.00	0.44
2:Bp:75:LEU:HD22	2:Bp:84:LEU:HD13	1.99	0.44
2:CL:133:PRO:HG3	2:CL:161:SER:HA	1.98	0.44
2:Cd:65:LYS:HD3	2:Cd:87:GLU:HB3	1.98	0.44
4:Cy:34:ASN:ND2	1:FX:192:GLU:OE1	2.50	0.44
4:DA:23:LYS:N	4:DA:67:TYR:OH	2.50	0.44
4:DI:26:GLN:NE2	4:DI:28:ASP:OD1	2.50	0.44
1:Es:80:ASN:ND2	1:Es:153:PRO:O	2.50	0.44
1:Eu:92:LYS:NZ	1:Eu:95:SER:OG	2.43	0.44
1:Ew:257:HIS:HB3	1:Ew:316:ILE:HB	1.99	0.44
1:FB:87:LYS:NZ	4:Hc:53:THR:O	2.46	0.44
1:FC:57:PRO:HA	1:FG:86:TYR:CE1	2.53	0.44
1:FM:113:LEU:HD11	1:Jy:49:TRP:CE3	2.52	0.44
1:FS:20:VAL:O	5:Ic:213:ARG:NH2	2.34	0.44
1:Ff:211:LEU:O	1:Ff:214:VAL:HG22	2.18	0.44
1:Fg:306:ALA:O	2:Lh:31:LEU:HD23	2.17	0.44
1:Fn:24:ILE:HG12	1:Fn:131:ASN:ND2	2.33	0.44
1:Fr:181:PHE:CZ	1:Fr:234:LEU:HB2	2.53	0.44
1:GA:39:LEU:O	1:GA:274:SER:OG	2.22	0.44
1:GB:24:ILE:HG12	1:GB:131:ASN:ND2	2.32	0.44
1:GC:259:ILE:HB	1:GC:314:VAL:HB	2.00	0.44
1:GH:67:ILE:HG13	1:GO:296:TYR:HE2	1.82	0.44
1:GM:39:LEU:O	1:GM:274:SER:OG	2.31	0.44
1:GM:49:TRP:CZ3	1:GM:74:SER:HB3	2.52	0.44
2:Ga:140:ASN:HD21	2:Ga:144:GLU:HB2	1.80	0.44
4:Hb:133:SER:HB3	4:Hb:177:TYR:CE1	2.52	0.44
4:Hy:35:SER:O	4:Hy:41:LYS:HD2	2.18	0.44
1:Jm:87:LYS:NZ	2:LP:53:THR:O	2.38	0.44
1:Js:24:ILE:HG12	1:Js:131:ASN:ND2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KB:307:THR:HG22	2:La:32:LEU:HB2	2.00	0.44
1:KQ:150:ARG:NH2	2:Ll:106:GLY:O	2.51	0.44
1:Kq:24:ILE:HG12	1:Kq:131:ASN:ND2	2.32	0.44
1:Kv:260:LEU:HD23	1:Kv:260:LEU:HA	1.90	0.44
2:La:166:LEU:HB2	2:La:170:LEU:HD23	2.00	0.44
2:Lo:28:ASP:OD2	1:PP:45:LYS:NZ	2.43	0.44
2:Lp:133:PRO:HG3	2:Lp:161:SER:HA	1.99	0.44
4:MX:93:VAL:HG21	4:MX:117:ILE:HD11	2.00	0.44
4:MZ:144:ASN:OD1	4:MZ:148:ALA:N	2.49	0.44
4:Mh:166:LEU:HD12	4:Mh:180:LYS:HE2	1.99	0.44
4:Mm:26:GLN:NE2	4:Mm:28:ASP:OD1	2.50	0.44
1:OW:289:SER:HB2	1:OX:85:GLN:HE22	1.82	0.44
1:Oe:55:ALA:O	1:Op:86:TYR:OH	2.21	0.44
1:Oj:162:PRO:HG2	2:QC:31:LEU:HD11	2.00	0.44
1:Op:31:PRO:HG3	5:Rz:218:TYR:CD1	2.53	0.44
1:Os:26:TYR:O	5:SC:218:TYR:OH	2.30	0.44
1:PL:57:PRO:HB2	1:PS:84:LEU:HD13	1.99	0.44
1:PL:66:THR:OG1	4:RU:58:LYS:NZ	2.51	0.44
1:PR:24:ILE:HG12	1:PR:131:ASN:ND2	2.33	0.44
1:PX:86:TYR:HE1	1:Pn:57:PRO:HA	1.82	0.44
1:PY:226:SER:O	1:Pm:226:SER:OG	2.32	0.44
1:PZ:59:THR:HG21	2:Qm:107:MET:HE3	2.00	0.44
1:Pa:201:MET:HE3	1:Pa:201:MET:HB3	1.93	0.44
1:Pg:132:HIS:HA	1:Pg:254:LEU:HD13	1.99	0.44
1:Po:195:ASP:H	4:RZ:36:ASN:CB	2.30	0.44
1:Pq:49:TRP:CE3	1:Pq:74:SER:HB3	2.52	0.44
1:Pw:152:LEU:HD21	2:QQ:105:SER:HA	2.00	0.44
1:Pw:194:GLY:HA3	2:RB:36:ILE:HG21	2.00	0.44
2:Qc:165:LYS:HE3	2:Qc:168:GLU:HA	2.00	0.44
2:Qm:59:ILE:HG22	2:Qm:111:ILE:HG12	2.00	0.44
1:TJ:201:MET:HE3	1:TJ:201:MET:HB3	1.88	0.44
1:TM:157:GLY:N	1:TM:160:ASN:OD1	2.43	0.44
1:TW:169:VAL:HG22	1:TW:183:LYS:HG3	1.99	0.44
1:UA:16:ILE:HD11	1:UA:120:LYS:HE3	2.00	0.44
1:UG:24:ILE:HG12	1:UG:131:ASN:ND2	2.33	0.44
1:UK:52:PHE:HB3	4:WL:41:LYS:HE2	2.00	0.44
1:UP:259:ILE:HB	1:UP:314:VAL:HB	2.00	0.44
1:UQ:277:MET:HA	1:UQ:300:VAL:HB	2.00	0.44
1:UT:16:ILE:HD11	1:UT:120:LYS:HE3	1.99	0.44
1:UW:109:ASN:O	2:VX:24:ASN:ND2	2.49	0.44
1:UY:133:PHE:O	1:UY:137:GLY:N	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Uh:81:TYR:OH	1:Uh:272:LYS:O	2.22	0.44
1:Uj:307:THR:HB	1:Uj:310:THR:HG21	1.99	0.44
1:Um:24:ILE:HG12	1:Um:131:ASN:ND2	2.33	0.44
2:Un:183:ILE:HA	2:Up:183:ILE:HG12	1.99	0.44
2:Uo:23:LYS:HE2	2:Uo:48:SER:HB3	1.99	0.44
2:Uv:167:THR:HB	2:Uv:170:LEU:HB3	2.00	0.44
2:VE:166:LEU:HB2	2:VE:170:LEU:HD23	2.00	0.44
2:VR:165:LYS:HE3	2:VR:168:GLU:HA	2.00	0.44
2:Vc:76:SER:HB3	2:Vc:87:GLU:HG2	1.98	0.44
2:Vp:114:THR:O	2:Vq:114:THR:HB	2.18	0.44
4:Vt:133:SER:HB3	4:Vt:177:TYR:CE1	2.53	0.44
4:WR:35:SER:O	4:WR:41:LYS:HD2	2.18	0.44
6:Xy:172:LEU:HD21	6:Xz:181:GLU:HA	1.99	0.44
6:Xz:13:ILE:HG21	6:Xz:167:LEU:HB3	2.00	0.44
6:YC:13:ILE:HG21	6:YC:167:LEU:HB3	2.00	0.44
6:YF:85:THR:HA	6:YF:102:ILE:HG12	2.00	0.44
6:YH:13:ILE:HG21	6:YH:167:LEU:HB3	2.00	0.44
6:YH:195:GLU:O	6:YH:198:VAL:HG12	2.17	0.44
5:YO:77:LEU:O	5:YO:81:GLU:HG2	2.18	0.44
5:YV:78:LEU:O	5:YV:82:ARG:HG3	2.17	0.44
5:Yn:118:ARG:O	5:Yn:122:VAL:HG23	2.18	0.44
5:Yq:55:ILE:O	5:Yq:59:ILE:HG12	2.17	0.44
5:Yq:113:ILE:O	5:Yq:117:GLN:HG2	2.17	0.44
5:Yy:55:ILE:HB	5:Zi:116:ALA:HB1	1.99	0.44
5:ZA:143:ILE:O	5:ZA:143:ILE:HG22	2.17	0.44
5:ZB:122:VAL:HG11	5:ZB:151:LEU:HD13	1.99	0.44
5:ZE:72:ILE:O	5:ZE:76:LEU:HG	2.18	0.44
5:ZM:58:ARG:HE	5:ZU:106:LYS:HD2	1.82	0.44
5:ZN:74:LYS:HE3	5:ZO:111:LYS:HE3	1.99	0.44
5:ZN:75:GLN:NE2	5:ZN:79:GLU:OE1	2.47	0.44
5:ZS:118:ARG:HB3	5:ZS:152:VAL:HG11	2.00	0.44
5:aG:75:GLN:O	5:aG:79:GLU:HG2	2.18	0.44
5:aO:113:ILE:O	5:aO:117:GLN:HG2	2.17	0.44
5:aS:79:GLU:O	5:aS:83:ILE:HG12	2.17	0.44
5:aW:79:GLU:O	5:aW:83:ILE:HG12	2.17	0.44
5:ag:79:GLU:O	5:ag:83:ILE:HG12	2.17	0.44
5:ag:113:ILE:O	5:ag:117:GLN:HG2	2.17	0.44
5:ak:113:ILE:O	5:ak:117:GLN:HG2	2.17	0.44
5:ar:122:VAL:HG11	5:ar:151:LEU:HD13	1.99	0.44
5:as:75:GLN:O	5:as:79:GLU:HG2	2.18	0.44
5:at:75:GLN:NE2	5:at:79:GLU:OE1	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:aw:113:ILE:O	5:aw:117:GLN:HG2	2.17	0.44
5:bB:122:VAL:HG11	5:bB:151:LEU:HD13	1.98	0.44
5:bK:75:GLN:O	5:bK:79:GLU:HG2	2.17	0.44
5:bN:112:ASP:OD1	5:bN:115:GLN:NE2	2.48	0.44
5:bS:55:ILE:HG21	5:by:116:ALA:HB2	2.00	0.44
5:bS:113:ILE:O	5:bS:117:GLN:HG2	2.16	0.44
5:bW:75:GLN:O	5:bW:79:GLU:HG2	2.18	0.44
5:bq:86:ILE:HD11	5:bq:118:ARG:HE	1.80	0.44
5:bs:75:GLN:O	5:bs:79:GLU:HG2	2.18	0.44
5:cO:75:GLN:O	5:cO:79:GLU:HG2	2.18	0.44
5:cU:75:GLN:O	5:cU:79:GLU:HG2	2.18	0.44
5:ce:75:GLN:O	5:ce:79:GLU:HG2	2.18	0.44
5:cg:75:GLN:O	5:cg:79:GLU:HG2	2.18	0.44
5:cq:113:ILE:O	5:cq:117:GLN:HG2	2.17	0.44
5:dA:113:ILE:O	5:dA:117:GLN:HG2	2.17	0.44
5:dB:112:ASP:OD1	5:dB:115:GLN:NE2	2.49	0.44
5:dG:113:ILE:O	5:dG:117:GLN:HG2	2.17	0.44
5:dI:75:GLN:O	5:dI:79:GLU:HG2	2.18	0.44
5:dM:75:GLN:O	5:dM:79:GLU:HG2	2.17	0.44
5:dN:122:VAL:HG11	5:dN:151:LEU:HD13	1.99	0.44
5:da:111:LYS:HZ2	5:dd:74:LYS:HE3	1.82	0.44
5:dh:136:LYS:HE3	5:dh:136:LYS:HB2	1.75	0.44
5:dq:72:ILE:O	5:dq:76:LEU:HG	2.18	0.44
5:dq:99:ASN:HB3	5:dq:102:VAL:HG22	2.00	0.44
5:eQ:131:ILE:HD13	5:eQ:140:ILE:HD11	1.99	0.44
5:eT:112:ASP:OD1	5:eT:115:GLN:NE2	2.49	0.44
5:eW:143:ILE:HG22	5:eW:143:ILE:O	2.17	0.44
5:ec:75:GLN:O	5:ec:79:GLU:HG2	2.17	0.44
5:et:112:ASP:OD1	5:et:115:GLN:NE2	2.49	0.44
5:fK:75:GLN:O	5:fK:79:GLU:HG2	2.17	0.44
5:fK:113:ILE:O	5:fK:117:GLN:HG2	2.18	0.44
5:fO:94:LEU:HD11	5:fO:121:LEU:HG	2.00	0.44
5:fe:113:ILE:O	5:fe:117:GLN:HG2	2.17	0.44
5:fh:122:VAL:HG11	5:fh:151:LEU:HD13	1.99	0.44
5:fm:79:GLU:O	5:fm:83:ILE:HG12	2.17	0.44
5:fn:122:VAL:HG11	5:fn:151:LEU:HD13	1.99	0.44
1:AC:261:ILE:HD12	1:AC:312:LEU:HD23	1.98	0.44
1:AK:158:LEU:HB3	1:AK:260:LEU:HD21	1.98	0.44
1:AS:24:ILE:HG12	1:AS:131:ASN:HD22	1.81	0.44
1:AY:87:LYS:NZ	4:Cr:53:THR:O	2.39	0.44
1:AZ:201:MET:HE3	1:AZ:201:MET:HB3	1.87	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aa:96:GLU:O	1:Aa:100:THR:HG23	2.18	0.44
1:Ad:20:VAL:O	5:Dn:213:ARG:NH2	2.34	0.44
1:Al:80:ASN:ND2	1:Al:153:PRO:O	2.50	0.44
1:Ay:197:PHE:HD1	1:Ay:243:ASN:HB2	1.83	0.44
1:Az:307:THR:HG22	4:DA:32:LEU:HB2	1.97	0.44
1:BX:59:THR:O	2:Vp:61:ASN:ND2	2.50	0.44
1:Bb:77:VAL:HG11	1:Bb:305:LEU:HD13	1.99	0.44
1:Be:142:GLN:O	4:Cs:39:ARG:HD2	2.17	0.44
2:Bw:166:LEU:HB2	2:Bw:170:LEU:HD23	2.00	0.44
2:CO:120:TYR:CE1	2:CO:174:LEU:HB2	2.53	0.44
2:CZ:37:ASP:O	2:CZ:41:GLN:NE2	2.51	0.44
2:Cc:116:ASN:ND2	4:DG:60:GLU:OE2	2.50	0.44
4:Ck:127:TYR:CE1	4:Ck:180:LYS:HB2	2.51	0.44
4:Cl:133:SER:HB3	4:Cl:177:TYR:CE1	2.53	0.44
4:Cq:52:ARG:HB3	1:FJ:66:THR:HG22	2.00	0.44
1:Ev:66:THR:OG1	2:GX:54:SER:HB2	2.18	0.44
1:FA:283:GLU:HB2	5:IK:199:PHE:CD2	2.53	0.44
1:FC:80:ASN:HD22	1:FC:154:ASN:HB2	1.82	0.44
1:FD:59:THR:O	2:Gi:61:ASN:ND2	2.50	0.44
1:FK:43:TYR:CE1	1:FK:45:LYS:HE3	2.53	0.44
1:FQ:69:THR:HA	1:KG:87:LYS:O	2.16	0.44
1:FX:174:LYS:O	1:FX:212:LYS:NZ	2.49	0.44
1:Fc:107:ASP:OD2	1:Fc:110:ASN:ND2	2.51	0.44
1:Fh:49:TRP:CZ3	1:Fh:74:SER:HB3	2.52	0.44
1:Fj:31:PRO:HG3	5:It:218:TYR:CD1	2.53	0.44
1:Ft:86:TYR:HE1	1:GJ:57:PRO:HA	1.82	0.44
1:GC:157:GLY:N	1:GC:160:ASN:OD1	2.50	0.44
1:GI:49:TRP:CH2	1:GI:74:SER:HB3	2.52	0.44
1:GL:87:LYS:NZ	2:HU:53:THR:O	2.33	0.44
1:GQ:257:HIS:CE1	1:GQ:318:GLN:HG3	2.52	0.44
1:GS:152:LEU:HD21	2:Gm:105:SER:HA	2.00	0.44
2:Gg:63:PRO:HB2	2:Gg:85:GLU:HG2	1.99	0.44
2:Gw:23:LYS:N	2:Gw:67:TYR:OH	2.48	0.44
1:Jl:257:HIS:HB3	1:Jl:316:ILE:HB	1.99	0.44
1:Jq:152:LEU:HD11	2:LS:105:SER:HA	1.99	0.44
1:Jx:16:ILE:HD11	1:Jx:120:LYS:HE3	2.00	0.44
1:KD:28:TRP:CZ3	1:KD:135:LEU:HB2	2.52	0.44
1:Kc:197:PHE:HD1	1:Kc:243:ASN:HB2	1.82	0.44
1:Kf:49:TRP:CZ3	1:Kf:74:SER:HB3	2.53	0.44
1:Kg:181:PHE:CZ	1:Kg:234:LEU:HB2	2.53	0.44
1:Ki:43:TYR:HE2	1:Ki:45:LYS:HE2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kp:157:GLY:N	1:Kp:160:ASN:OD1	2.45	0.44
1:Kr:49:TRP:CE3	1:Kr:74:SER:HB3	2.52	0.44
1:LB:49:TRP:CZ3	1:LB:74:SER:HB3	2.52	0.44
1:LD:8:TYR:CD2	1:LD:93:GLN:HG3	2.52	0.44
1:LH:152:LEU:HD21	2:Lb:105:SER:HA	2.00	0.44
1:LI:16:ILE:HD11	1:LI:120:LYS:HE3	2.00	0.44
2:Lc:133:PRO:HG3	2:Lc:161:SER:HA	1.99	0.44
2:Lk:140:ASN:HD21	2:Lk:144:GLU:HB2	1.83	0.44
2:MH:181:ARG:NH1	2:MI:94:LEU:O	2.48	0.44
4:MP:65:LEU:HD23	4:MP:65:LEU:HA	1.86	0.44
4:Mn:78:GLN:HE22	4:Mn:89:TYR:HB2	1.81	0.44
1:OU:239:LYS:NZ	1:OU:245:GLU:O	2.46	0.44
1:OV:113:LEU:HD11	1:TJ:49:TRP:CE3	2.53	0.44
1:Oq:257:HIS:CE1	1:Oq:318:GLN:HG3	2.53	0.44
1:Ot:152:LEU:HD21	2:QS:105:SER:HA	1.99	0.44
1:Ow:77:VAL:HG11	1:Ow:305:LEU:HD13	2.00	0.44
1:Ox:65:ASN:HB2	2:QW:59:ILE:H	1.82	0.44
1:PE:13:VAL:HA	1:PE:16:ILE:HG22	1.99	0.44
1:PF:150:ARG:NH2	2:Qa:106:GLY:O	2.51	0.44
1:PX:67:ILE:HG13	1:Pb:296:TYR:HE2	1.81	0.44
1:Pb:19:GLU:OE1	1:Pb:120:LYS:NZ	2.38	0.44
1:Pf:24:ILE:HG12	1:Pf:131:ASN:ND2	2.32	0.44
1:Ps:49:TRP:CZ3	1:Ps:74:SER:HB3	2.52	0.44
1:Pt:39:LEU:O	1:Pt:274:SER:OG	2.26	0.44
1:Pt:65:ASN:HB2	2:Qv:59:ILE:H	1.82	0.44
1:Pu:161:MET:SD	4:WQ:31:LEU:HD21	2.57	0.44
2:Pz:23:LYS:HE2	2:Pz:48:SER:HB3	1.99	0.44
2:QC:56:LYS:HD2	4:RD:56:PHE:HD1	1.82	0.44
2:QG:167:THR:HB	2:QG:170:LEU:HB3	2.00	0.44
2:QL:23:LYS:HG3	2:QL:24:ASN:N	2.31	0.44
2:QV:133:PRO:HG3	2:QV:161:SER:HA	1.99	0.44
2:Qe:133:PRO:HG3	2:Qe:161:SER:HA	1.98	0.44
2:Qw:133:PRO:HG3	2:Qw:161:SER:HA	1.99	0.44
4:RP:51:THR:HG23	4:RP:126:GLY:HA2	1.98	0.44
4:RT:149:LEU:HD13	4:RT:181:VAL:HG21	2.00	0.44
4:RW:43:VAL:O	4:RW:43:VAL:HG13	2.17	0.44
1:TI:152:LEU:HD21	2:Uo:105:SER:HA	2.00	0.44
1:TJ:152:LEU:HD21	2:Un:105:SER:HA	2.00	0.44
1:TO:152:LEU:HD21	2:Ut:105:SER:HA	1.99	0.44
1:TW:59:THR:O	2:VB:61:ASN:ND2	2.50	0.44
1:Tg:16:ILE:HD11	1:Tg:120:LYS:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Tg:259:ILE:HB	1:Tg:314:VAL:HB	1.99	0.44
1:Tl:77:VAL:HG11	1:Tl:305:LEU:HD13	2.00	0.44
1:Tw:41:MET:HE3	1:Tw:83:LYS:HB3	2.00	0.44
1:UA:49:TRP:CZ3	1:UA:74:SER:HB3	2.52	0.44
1:UN:226:SER:O	1:Ub:226:SER:OG	2.32	0.44
1:UO:143:LYS:HA	2:Ve:39:ARG:HE	1.82	0.44
1:UP:16:ILE:HD12	1:UP:116:ALA:HB1	2.00	0.44
1:UP:173:ASP:HB3	1:UP:179:LYS:HG3	1.99	0.44
1:US:255:LEU:HD22	1:US:258:LYS:HB2	1.99	0.44
1:UT:205:VAL:HG12	1:UT:259:ILE:HG23	1.98	0.44
1:UY:201:MET:HE3	1:UY:201:MET:HB3	1.93	0.44
1:Ub:43:TYR:HE2	1:Ub:45:LYS:HE2	1.82	0.44
1:Ub:87:LYS:NZ	2:Vl:53:THR:O	2.36	0.44
1:Ue:259:ILE:HB	1:Ue:314:VAL:HB	1.99	0.44
1:Ui:78:ARG:O	1:Ui:154:ASN:ND2	2.35	0.44
1:Ul:96:GLU:O	1:Ul:100:THR:HG23	2.18	0.44
2:VN:23:LYS:N	2:VN:67:TYR:OH	2.51	0.44
4:Vv:37:GLU:HG3	4:Vv:38:PHE:H	1.81	0.44
4:WH:78:GLN:HB2	4:WH:88:HIS:CE1	2.53	0.44
4:WQ:26:GLN:NE2	4:WQ:28:ASP:OD1	2.50	0.44
6:Xx:290:GLU:O	6:Xx:294:LEU:HG	2.18	0.44
6:YH:320:ASN:HB3	6:YH:368:GLN:HE22	1.82	0.44
5:YJ:81:GLU:HA	5:YJ:84:ASN:ND2	2.32	0.44
5:YN:119:ARG:HG2	5:YN:140:ILE:HG22	2.00	0.44
5:YQ:150:GLN:HB3	5:YT:150:GLN:OE1	2.18	0.44
5:YR:86:ILE:HG13	5:YR:118:ARG:HH21	1.83	0.44
5:Yd:149:GLU:HA	5:Yd:152:VAL:HG22	1.99	0.44
5:Ye:127:PRO:HB2	5:Ye:130:GLN:OE1	2.17	0.44
5:Yr:122:VAL:HG11	5:Yr:151:LEU:HD13	1.99	0.44
5:Yw:55:ILE:HG21	5:Zk:116:ALA:HB1	1.99	0.44
5:ZD:83:ILE:HG12	5:ZD:114:MET:HG3	2.00	0.44
5:ZD:143:ILE:HD12	5:ZD:143:ILE:HA	1.88	0.44
5:ZE:143:ILE:HG22	5:ZE:143:ILE:O	2.17	0.44
5:ZO:109:THR:O	5:ZO:113:ILE:HG13	2.17	0.44
5:ZR:118:ARG:O	5:ZR:122:VAL:HG23	2.18	0.44
5:ZU:75:GLN:O	5:ZU:79:GLU:HG2	2.17	0.44
5:ZU:153:SER:HB2	5:ZV:133:ALA:HB1	1.99	0.44
5:Za:95:SER:HB3	5:Za:98:PHE:CE1	2.53	0.44
5:Zi:75:GLN:O	5:Zi:79:GLU:HG2	2.18	0.44
5:Zi:113:ILE:O	5:Zi:117:GLN:HG2	2.17	0.44
5:Zq:75:GLN:O	5:Zq:79:GLU:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Zx:122:VAL:HG11	5:Zx:151:LEU:HD13	1.99	0.44
5:Zz:122:VAL:HG11	5:Zz:151:LEU:HD13	1.99	0.44
5:aB:122:VAL:HG11	5:aB:151:LEU:HD13	1.99	0.44
5:aR:122:VAL:HG11	5:aR:151:LEU:HD13	1.99	0.44
5:aV:122:VAL:HG11	5:aV:151:LEU:HD13	1.99	0.44
5:aq:75:GLN:O	5:aq:79:GLU:HG2	2.18	0.44
5:ay:79:GLU:O	5:ay:83:ILE:HG12	2.18	0.44
5:bC:113:ILE:O	5:bC:117:GLN:HG2	2.17	0.44
5:bI:75:GLN:O	5:bI:79:GLU:HG2	2.18	0.44
5:bf:112:ASP:OD1	5:bf:115:GLN:NE2	2.49	0.44
5:bp:122:VAL:HG11	5:bp:151:LEU:HD13	1.99	0.44
5:bs:111:LYS:HZ2	5:bv:74:LYS:HE3	1.83	0.44
5:by:75:GLN:O	5:by:79:GLU:HG2	2.18	0.44
5:cA:79:GLU:O	5:cA:83:ILE:HG12	2.17	0.44
5:cC:62:GLU:OE1	5:ci:97:HIS:NE2	2.51	0.44
5:cK:75:GLN:O	5:cK:79:GLU:HG2	2.18	0.44
5:cQ:72:ILE:O	5:cQ:76:LEU:HG	2.18	0.44
5:cu:75:GLN:O	5:cu:79:GLU:HG2	2.18	0.44
5:cy:75:GLN:O	5:cy:79:GLU:HG2	2.18	0.44
5:dD:122:VAL:HG11	5:dD:151:LEU:HD13	1.99	0.44
5:dR:112:ASP:OD1	5:dR:115:GLN:NE2	2.48	0.44
5:dS:79:GLU:O	5:dS:83:ILE:HG12	2.17	0.44
5:dc:79:GLU:O	5:dc:83:ILE:HG12	2.18	0.44
5:de:79:GLU:O	5:de:83:ILE:HG12	2.18	0.44
5:dh:118:ARG:O	5:dh:122:VAL:HG23	2.18	0.44
5:di:111:LYS:HZ2	5:dl:74:LYS:HE3	1.81	0.44
5:do:113:ILE:O	5:do:117:GLN:HG2	2.18	0.44
5:eD:118:ARG:O	5:eD:122:VAL:HG23	2.18	0.44
5:eW:94:LEU:HD11	5:eW:121:LEU:HG	1.99	0.44
5:eX:118:ARG:O	5:eX:122:VAL:HG23	2.18	0.44
5:eZ:118:ARG:O	5:eZ:122:VAL:HG23	2.18	0.44
5:eb:118:ARG:O	5:eb:122:VAL:HG23	2.17	0.44
5:eg:79:GLU:O	5:eg:83:ILE:HG12	2.16	0.44
5:ep:118:ARG:O	5:ep:122:VAL:HG23	2.18	0.44
5:eu:79:GLU:O	5:eu:83:ILE:HG12	2.17	0.44
5:ey:94:LEU:HD11	5:ey:121:LEU:HG	1.98	0.44
5:fB:122:VAL:HG11	5:fB:151:LEU:HD13	1.99	0.44
5:fM:79:GLU:O	5:fM:83:ILE:HG12	2.17	0.44
5:fO:79:GLU:O	5:fO:83:ILE:HG12	2.17	0.44
5:fW:79:GLU:O	5:fW:83:ILE:HG12	2.17	0.44
5:fW:113:ILE:O	5:fW:117:GLN:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fh:74:LYS:HE3	5:fi:111:LYS:HZ1	1.82	0.44
5:fp:76:LEU:HD23	5:fp:79:GLU:OE2	2.18	0.44
5:gB:122:VAL:HG11	5:gB:151:LEU:HD13	1.98	0.44
1:AC:113:LEU:HD11	1:Eq:49:TRP:CE3	2.53	0.44
1:AI:306:ALA:O	2:Gg:31:LEU:HD22	2.18	0.44
1:AN:66:THR:HG22	2:Bq:52:CYS:HB3	2.00	0.44
1:AS:165:ILE:HD13	1:AS:191:LEU:HD23	1.99	0.44
1:AS:177:MET:HE3	1:AS:181:PHE:HB2	2.00	0.44
1:AW:239:LYS:HA	1:AW:242:ASN:OD1	2.18	0.44
1:AZ:87:LYS:NZ	2:Bz:53:THR:O	2.34	0.44
1:Al:257:HIS:HB3	1:Al:316:ILE:HB	1.99	0.44
1:Aq:84:LEU:HB3	1:FX:57:PRO:HB2	1.98	0.44
1:Ar:178:ASP:OD1	1:Ar:179:LYS:N	2.49	0.44
1:Ay:24:ILE:HG12	1:Ay:131:ASN:ND2	2.33	0.44
1:BJ:79:LEU:HD11	1:BJ:305:LEU:HB2	1.99	0.44
1:BK:255:LEU:HD22	1:BK:258:LYS:HB2	2.00	0.44
1:BS:80:ASN:ND2	1:BS:153:PRO:O	2.50	0.44
1:BZ:79:LEU:HD11	1:BZ:305:LEU:HB2	2.00	0.44
1:Bd:96:GLU:O	1:Bd:100:THR:HG23	2.18	0.44
2:CF:23:LYS:N	2:CF:67:TYR:OH	2.51	0.44
2:Cg:64:ALA:HB2	2:Cg:108:ALA:HB2	2.00	0.44
4:DJ:35:SER:O	4:DJ:41:LYS:HD2	2.18	0.44
1:Er:113:LEU:HD11	1:Jf:49:TRP:CE3	2.52	0.44
1:FY:89:ARG:NH2	1:FY:112:LEU:HD21	2.33	0.44
1:Fs:87:LYS:NZ	4:Hr:53:THR:O	2.38	0.44
1:Fx:163:GLU:HB3	1:Fx:308:ARG:HG3	1.99	0.44
1:GA:259:ILE:HB	1:GA:314:VAL:HB	1.99	0.44
1:GG:178:ASP:N	1:GG:178:ASP:OD1	2.51	0.44
1:GO:79:LEU:HD11	1:GO:305:LEU:HB2	2.00	0.44
1:GS:79:LEU:HD11	1:GS:305:LEU:HB2	1.99	0.44
2:Gf:123:LEU:HD13	2:Gf:173:VAL:HG11	2.00	0.44
2:Gn:133:PRO:HG3	2:Gn:161:SER:HA	1.99	0.44
2:Gy:165:LYS:HE3	2:Gy:168:GLU:HA	2.00	0.44
2:Gz:165:LYS:HB2	2:Gz:171:PHE:CE2	2.52	0.44
2:HV:137:LEU:HD11	2:HV:159:ALA:HB2	2.00	0.44
4:Hf:58:LYS:HD3	4:Hf:119:PRO:HG2	1.98	0.44
4:Hn:149:LEU:HD13	4:Hn:181:VAL:HG21	1.98	0.44
4:Hp:23:LYS:N	4:Hp:67:TYR:OH	2.51	0.44
1:Jf:149:LYS:HZ1	1:Jj:59:THR:HG1	1.62	0.44
1:Jh:80:ASN:ND2	1:Jh:153:PRO:O	2.51	0.44
1:Jk:152:LEU:HD21	2:LP:105:SER:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jq:84:LEU:HB3	1:Jt:57:PRO:HB2	1.99	0.44
1:Jy:272:LYS:N	1:Jy:303:GLY:O	2.46	0.44
1:KG:242:ASN:ND2	1:KG:245:GLU:HB2	2.33	0.44
1:KK:132:HIS:HA	1:KK:254:LEU:HD13	1.99	0.44
1:KW:16:ILE:HD11	1:KW:120:LYS:HE3	1.99	0.44
1:Kb:257:HIS:CE1	1:Kb:318:GLN:HG3	2.53	0.44
1:Kn:79:LEU:HD11	1:Kn:305:LEU:HB2	1.99	0.44
1:LA:41:MET:HG2	2:MK:104:PHE:HE2	1.82	0.44
1:LC:135:LEU:HD21	1:LC:255:LEU:HG	1.98	0.44
1:LE:65:ASN:HB2	2:MG:59:ILE:H	1.81	0.44
1:LF:307:THR:HB	1:LF:310:THR:HG21	1.99	0.44
4:MQ:133:SER:HB3	4:MQ:177:TYR:CE1	2.52	0.44
4:Md:78:GLN:HB2	4:Md:88:HIS:CE1	2.53	0.44
4:Me:23:LYS:N	4:Me:67:TYR:OH	2.51	0.44
5:OE:193:ASN:HD22	5:cV:162:ARG:HH11	1.65	0.44
1:OY:49:TRP:CZ3	1:OY:74:SER:HB3	2.52	0.44
1:Ot:13:VAL:HA	1:Ot:16:ILE:HG22	1.99	0.44
1:Ow:239:LYS:HA	1:Ow:242:ASN:OD1	2.18	0.44
1:PE:257:HIS:HB3	1:PE:316:ILE:HB	1.99	0.44
1:PT:66:THR:HG22	2:Qf:52:CYS:HB3	2.00	0.44
1:Pa:259:ILE:HB	1:Pa:314:VAL:HB	2.00	0.44
1:Pc:26:TYR:O	5:Sm:218:TYR:OH	2.30	0.44
1:Pm:49:TRP:CH2	1:Pm:74:SER:HB3	2.52	0.44
1:Pu:257:HIS:CE1	1:Pu:318:GLN:HG3	2.52	0.44
2:QE:123:LEU:HD13	2:QE:173:VAL:HG11	1.99	0.44
2:QW:160:LEU:HD11	4:RO:75:ARG:HH12	1.83	0.44
2:Qj:125:LYS:HD2	2:Qj:169:ASP:HA	1.99	0.44
2:Qo:44:ILE:HD12	2:Qo:46:SER:HB3	2.00	0.44
2:Qw:75:LEU:HD22	2:Qw:84:LEU:HD13	2.00	0.44
4:RF:133:SER:HB3	4:RF:177:TYR:CE1	2.52	0.44
4:RQ:37:GLU:HG3	4:RQ:39:ARG:H	1.81	0.44
1:TL:80:ASN:ND2	1:TL:153:PRO:O	2.51	0.44
1:TS:158:LEU:HB3	1:TS:260:LEU:HD21	1.98	0.44
1:TU:100:THR:HA	1:TU:105:ILE:HG23	1.98	0.44
1:TX:194:GLY:HA3	4:Vv:36:ASN:HB2	1.99	0.44
1:Tk:169:VAL:HB	1:Tk:316:ILE:HA	1.98	0.44
1:Tr:89:ARG:NH2	1:Tr:112:LEU:HD21	2.33	0.44
1:UK:257:HIS:HB2	1:UK:316:ILE:HB	2.00	0.44
1:UT:259:ILE:HB	1:UT:314:VAL:HB	1.99	0.44
1:UY:91:LEU:HD21	1:UY:112:LEU:HD13	1.99	0.44
1:Ue:257:HIS:CE1	1:Ue:318:GLN:HG3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Uh:8:TYR:CD2	1:Uh:93:GLN:HG3	2.52	0.44
1:Uh:48:LYS:HB3	1:Uh:75:GLU:HB3	1.99	0.44
1:Um:87:LYS:NZ	4:WA:53:THR:O	2.39	0.44
2:VS:156:ASN:ND2	2:VS:180:ASN:O	2.50	0.44
2:VZ:77:PHE:HB2	4:WJ:138:LYS:HE2	1.99	0.44
2:Vd:44:ILE:HD12	2:Vd:46:SER:HB3	2.00	0.44
2:Vl:181:ARG:NH1	2:Vm:94:LEU:O	2.48	0.44
6:YB:348:LEU:HD23	6:YB:348:LEU:HA	1.86	0.44
6:YD:259:LEU:HB3	6:YD:269:PHE:CE1	2.53	0.44
5:YN:66:VAL:HG13	5:Yc:142:HIS:HB2	2.00	0.44
5:YS:150:GLN:O	5:YS:153:SER:OG	2.27	0.44
5:YZ:59:ILE:HG13	5:ZO:98:PHE:HE1	1.83	0.44
5:Yp:118:ARG:O	5:Yp:122:VAL:HG23	2.18	0.44
5:Yv:118:ARG:O	5:Yv:122:VAL:HG23	2.16	0.44
5:ZG:86:ILE:HD11	5:ZG:118:ARG:HE	1.83	0.44
5:ZM:143:ILE:HG22	5:ZM:143:ILE:O	2.17	0.44
5:ZZ:122:VAL:HG11	5:ZZ:151:LEU:HD13	1.99	0.44
5:Zb:122:VAL:HG11	5:Zb:151:LEU:HD13	1.99	0.44
5:Zp:122:VAL:HG11	5:Zp:151:LEU:HD13	1.99	0.44
5:aC:75:GLN:O	5:aC:79:GLU:HG2	2.18	0.44
5:aD:122:VAL:HG11	5:aD:151:LEU:HD13	1.99	0.44
5:aS:75:GLN:O	5:aS:79:GLU:HG2	2.17	0.44
5:aW:113:ILE:O	5:aW:117:GLN:HG2	2.17	0.44
5:ag:75:GLN:O	5:ag:79:GLU:HG2	2.18	0.44
5:bD:122:VAL:HG11	5:bD:151:LEU:HD13	1.99	0.44
5:bK:86:ILE:HD11	5:bK:118:ARG:HE	1.82	0.44
5:bU:75:GLN:O	5:bU:79:GLU:HG2	2.18	0.44
5:bY:75:GLN:O	5:bY:79:GLU:HG2	2.18	0.44
5:bb:122:VAL:HG11	5:bb:151:LEU:HD13	1.99	0.44
5:bg:79:GLU:O	5:bg:83:ILE:HG12	2.17	0.44
5:bk:75:GLN:O	5:bk:79:GLU:HG2	2.18	0.44
5:bm:79:GLU:O	5:bm:83:ILE:HG12	2.17	0.44
5:cG:79:GLU:O	5:cG:83:ILE:HG12	2.17	0.44
5:cO:113:ILE:O	5:cO:117:GLN:HG2	2.18	0.44
5:cQ:75:GLN:O	5:cQ:79:GLU:HG2	2.18	0.44
5:cZ:122:VAL:HG11	5:cZ:151:LEU:HD13	1.99	0.44
5:ce:79:GLU:O	5:ce:83:ILE:HG12	2.17	0.44
5:cp:122:VAL:HG11	5:cp:151:LEU:HD13	2.00	0.44
5:cu:79:GLU:O	5:cu:83:ILE:HG12	2.17	0.44
5:cu:113:ILE:O	5:cu:117:GLN:HG2	2.17	0.44
5:dC:75:GLN:O	5:dC:79:GLU:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dO:113:ILE:O	5:dO:117:GLN:HG2	2.17	0.44
5:dP:122:VAL:HG11	5:dP:151:LEU:HD13	1.99	0.44
5:dX:122:VAL:HG11	5:dX:151:LEU:HD13	1.99	0.44
5:da:55:ILE:HD13	5:eG:116:ALA:HB1	1.99	0.44
5:da:79:GLU:O	5:da:83:ILE:HG12	2.18	0.44
5:dg:111:LYS:HZ1	5:dj:74:LYS:HE3	1.80	0.44
5:di:113:ILE:O	5:di:117:GLN:HG2	2.18	0.44
5:dm:75:GLN:O	5:dm:79:GLU:HG2	2.18	0.44
5:dw:55:ILE:HG23	5:ee:147:ILE:CG1	2.37	0.44
5:eJ:118:ARG:O	5:eJ:122:VAL:HG23	2.18	0.44
5:eQ:143:ILE:HG22	5:eQ:143:ILE:O	2.17	0.44
5:eY:72:ILE:O	5:eY:76:LEU:HG	2.18	0.44
5:ee:72:ILE:O	5:ee:76:LEU:HG	2.18	0.44
5:ee:75:GLN:O	5:ee:79:GLU:HG2	2.17	0.44
5:es:113:ILE:O	5:es:117:GLN:HG2	2.17	0.44
5:et:76:LEU:HD23	5:et:79:GLU:OE2	2.18	0.44
5:ev:76:LEU:HD23	5:ev:79:GLU:OE2	2.18	0.44
5:fE:79:GLU:O	5:fE:83:ILE:HG12	2.17	0.44
5:fG:79:GLU:O	5:fG:83:ILE:HG12	2.17	0.44
5:fJ:118:ARG:O	5:fJ:122:VAL:HG23	2.18	0.44
5:fS:94:LEU:HD11	5:fS:121:LEU:HG	2.00	0.44
5:fY:75:GLN:O	5:fY:79:GLU:HG2	2.17	0.44
5:fa:113:ILE:O	5:fa:117:GLN:HG2	2.17	0.44
5:fu:79:GLU:O	5:fu:83:ILE:HG12	2.17	0.44
5:gC:75:GLN:O	5:gC:79:GLU:HG2	2.17	0.44
1:AT:87:LYS:HE2	1:AT:296:TYR:OH	2.18	0.44
1:AU:66:THR:HG22	4:Vy:52:ARG:HB3	2.00	0.44
1:AY:196:GLU:HB2	1:AY:268:LEU:HD11	1.99	0.44
1:AZ:80:ASN:ND2	1:AZ:154:ASN:HB2	2.33	0.44
1:Ad:77:VAL:HG11	1:Ad:305:LEU:HD13	1.99	0.44
1:Af:210:SER:OG	1:Aq:244:ARG:NH1	2.50	0.44
1:Ao:261:ILE:HD12	1:Ao:312:LEU:HD23	1.99	0.44
1:BH:307:THR:O	1:BH:310:THR:OG1	2.36	0.44
1:BI:163:GLU:HB3	1:BI:308:ARG:HG3	1.99	0.44
1:BO:87:LYS:NZ	2:CP:53:THR:O	2.35	0.44
1:BX:39:LEU:O	1:BX:274:SER:OG	2.31	0.44
1:Bc:13:VAL:HA	1:Bc:16:ILE:HG22	2.00	0.44
1:Be:24:ILE:HG12	1:Be:131:ASN:ND2	2.33	0.44
2:CK:28:ASP:OD2	1:Fl:45:LYS:NZ	2.43	0.44
2:CO:56:LYS:HD2	4:Cz:56:PHE:HD1	1.82	0.44
2:CT:59:ILE:HG22	2:CT:111:ILE:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Co:105:CYS:SG	4:Co:115:ALA:HB1	2.58	0.44
4:Cz:78:GLN:HB2	4:Cz:88:HIS:CE1	2.53	0.44
1:Er:201:MET:HE3	1:Er:201:MET:HB3	1.92	0.44
1:FM:212:LYS:HA	1:FM:215:LYS:HE3	2.00	0.44
1:FN:16:ILE:HD11	1:FN:120:LYS:HE3	1.99	0.44
1:FR:242:ASN:ND2	1:FR:245:GLU:HB2	2.33	0.44
1:FU:210:SER:OG	1:Ff:244:ARG:NH1	2.50	0.44
1:Fb:150:ARG:NH2	2:Gw:106:GLY:O	2.51	0.44
1:Fd:13:VAL:HA	1:Fd:16:ILE:HG22	1.99	0.44
1:GB:278:LEU:HD12	5:JL:210:TYR:CG	2.53	0.44
1:GI:43:TYR:HE2	1:GI:45:LYS:HE2	1.82	0.44
1:GQ:31:PRO:HG3	5:Ja:218:TYR:CD1	2.53	0.44
1:GR:49:TRP:CE3	1:GR:74:SER:HB3	2.53	0.44
2:GV:23:LYS:HE2	2:GV:48:SER:HB3	1.99	0.44
2:Ga:123:LEU:HD13	2:Ga:173:VAL:HG11	1.99	0.44
2:HC:69:TYR:CE2	2:HC:70:LYS:HG2	2.53	0.44
2:HL:134:GLY:HA2	4:Hs:77:ILE:HD13	1.98	0.44
2:HW:114:THR:O	2:HX:114:THR:HB	2.18	0.44
4:Hh:43:VAL:O	4:Hh:43:VAL:HG13	2.18	0.44
4:Ho:78:GLN:HB2	4:Ho:88:HIS:CE1	2.53	0.44
4:Ho:78:GLN:NE2	4:Ho:89:TYR:HB2	2.32	0.44
4:Hv:43:VAL:O	4:Hv:43:VAL:HG13	2.18	0.44
4:Hw:43:VAL:O	4:Hw:43:VAL:HG13	2.18	0.44
1:Ji:66:THR:HG22	2:LP:52:CYS:HB3	2.00	0.44
1:Jk:66:THR:OG1	2:LM:54:SER:HB2	2.18	0.44
1:Jo:261:ILE:HD12	1:Jo:312:LEU:HD23	2.00	0.44
1:Jp:59:THR:O	4:MU:61:ASN:ND2	2.50	0.44
1:Jv:261:ILE:HD12	1:Jv:312:LEU:HD23	1.98	0.44
1:KA:31:PRO:HG3	5:NK:218:TYR:CD1	2.53	0.44
1:KG:57:PRO:HB2	1:KI:84:LEU:HB3	1.98	0.44
1:KG:80:ASN:HB2	1:KG:155:MET:HG3	1.99	0.44
1:KJ:210:SER:OG	1:KU:244:ARG:NH1	2.50	0.44
1:KN:84:LEU:HB3	1:KQ:57:PRO:HB2	1.98	0.44
1:KQ:85:GLN:HE22	1:KS:289:SER:HB2	1.83	0.44
1:KS:261:ILE:HD12	1:KS:312:LEU:HD23	1.99	0.44
1:Kj:211:LEU:HD23	1:Kj:211:LEU:HA	1.89	0.44
1:Kq:278:LEU:HD12	5:OA:210:TYR:CG	2.53	0.44
1:Kw:152:LEU:HD21	2:MF:105:SER:HA	2.00	0.44
2:Lj:140:ASN:HD21	2:Lj:144:GLU:HB2	1.81	0.44
2:Lx:59:ILE:HG22	2:Lx:111:ILE:HG12	2.00	0.44
2:MH:133:PRO:HG3	2:MH:161:SER:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MR:64:PHE:CZ	4:MR:108:ILE:HD11	2.51	0.44
4:Mc:149:LEU:HD13	4:Mc:181:VAL:HG21	1.98	0.44
5:NQ:205:ALA:O	5:NQ:209:THR:OG1	2.35	0.44
1:Oa:49:TRP:CE3	1:Oa:74:SER:HB3	2.53	0.44
1:Of:84:LEU:HB3	1:Oi:57:PRO:HB2	1.99	0.44
1:Oh:169:VAL:HG22	1:Oh:183:LYS:HG3	1.99	0.44
1:Ol:177:MET:HE3	1:Ol:181:PHE:HB2	2.00	0.44
1:Oo:43:TYR:CE1	1:Oo:45:LYS:HE3	2.53	0.44
1:Op:239:LYS:HA	1:Op:242:ASN:OD1	2.18	0.44
1:PA:65:ASN:ND2	2:QY:57:ASP:O	2.51	0.44
1:PC:305:LEU:HD11	4:RO:32:LEU:HG	2.00	0.44
1:PE:80:ASN:ND2	1:PE:153:PRO:O	2.50	0.44
1:PJ:84:LEU:HB3	1:Tq:57:PRO:HB2	1.98	0.44
1:PN:57:PRO:HB2	1:UF:84:LEU:HD13	2.00	0.44
1:Pe:205:VAL:HG12	1:Pe:259:ILE:HG23	1.98	0.44
1:Pg:57:PRO:HB2	1:Pi:84:LEU:HB3	1.99	0.44
1:Pi:152:LEU:HD21	2:Qk:105:SER:HA	1.99	0.44
1:Pl:66:THR:HG22	2:RA:52:CYS:HB3	1.99	0.44
1:Ps:79:LEU:HD11	1:Ps:305:LEU:HB2	2.00	0.44
2:QJ:123:LEU:HD13	2:QJ:173:VAL:HG11	2.00	0.44
2:QR:181:ARG:NH1	2:QS:94:LEU:O	2.50	0.44
2:QY:23:LYS:N	2:QY:67:TYR:OH	2.51	0.44
2:Qd:156:ASN:ND2	2:Qd:180:ASN:O	2.50	0.44
2:Qq:107:MET:HE3	1:UU:59:THR:HG21	2.00	0.44
4:RX:43:VAL:O	4:RX:43:VAL:HG13	2.18	0.44
1:Td:43:TYR:CE1	1:Td:45:LYS:HE3	2.53	0.44
1:Tl:55:ALA:O	1:Tx:86:TYR:OH	2.33	0.44
1:To:239:LYS:NZ	1:To:245:GLU:O	2.42	0.44
1:Tp:49:TRP:CE3	1:Tp:74:SER:HB3	2.53	0.44
1:UG:174:LYS:O	1:UG:212:LYS:NZ	2.51	0.44
1:US:152:LEU:HD21	2:Vi:105:SER:HA	2.00	0.44
1:UU:24:ILE:HG12	1:UU:131:ASN:ND2	2.32	0.44
1:UY:86:TYR:OH	1:Ui:55:ALA:O	2.24	0.44
1:Ua:152:LEU:HD21	2:Vj:105:SER:HA	2.00	0.44
1:Uc:272:LYS:N	1:Uc:303:GLY:O	2.38	0.44
1:Ue:173:ASP:HB3	1:Ue:179:LYS:HG3	1.99	0.44
1:Uh:79:LEU:HD11	1:Uh:305:LEU:HB2	2.00	0.44
2:Ux:125:LYS:HD2	2:Ux:169:ASP:HA	1.98	0.44
2:VW:56:LYS:HD2	4:WH:56:PHE:HD1	1.82	0.44
2:VW:120:TYR:CE1	2:VW:174:LEU:HB2	2.53	0.44
2:Vb:59:ILE:HG22	2:Vb:111:ILE:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Vl:23:LYS:N	2:Vl:67:TYR:OH	2.49	0.44
4:WJ:43:VAL:O	4:WJ:43:VAL:HG13	2.18	0.44
6:Xx:320:ASN:HB3	6:Xx:368:GLN:HE22	1.83	0.44
6:YC:320:ASN:HB3	6:YC:368:GLN:HE22	1.82	0.44
5:YJ:68:GLU:OE2	5:YJ:71:ARG:NH2	2.51	0.44
5:YK:88:THR:HA	5:YK:91:LYS:HD2	1.99	0.44
5:YP:85:GLU:O	5:YP:89:LEU:HG	2.18	0.44
5:YR:119:ARG:HG2	5:YR:140:ILE:HG22	1.99	0.44
5:YZ:86:ILE:HD11	5:YZ:118:ARG:HE	1.82	0.44
5:Ym:143:ILE:HG22	5:Ym:143:ILE:O	2.18	0.44
5:Yn:72:ILE:O	5:Yn:76:LEU:HG	2.17	0.44
5:Ys:143:ILE:HG22	5:Ys:143:ILE:O	2.17	0.44
5:Yz:75:GLN:NE2	5:Yz:79:GLU:OE1	2.50	0.44
5:ZW:75:GLN:O	5:ZW:79:GLU:HG2	2.18	0.44
5:Zk:131:ILE:HD13	5:Zk:140:ILE:HD11	1.99	0.44
5:Zm:72:ILE:O	5:Zm:76:LEU:HG	2.18	0.44
5:Zu:86:ILE:HD11	5:Zu:118:ARG:HE	1.83	0.44
5:aN:122:VAL:HG11	5:aN:151:LEU:HD13	1.99	0.44
5:aO:79:GLU:O	5:aO:83:ILE:HG12	2.18	0.44
5:ag:72:ILE:O	5:ag:76:LEU:HG	2.18	0.44
5:ah:122:VAL:HG11	5:ah:151:LEU:HD13	1.99	0.44
5:ai:75:GLN:O	5:ai:79:GLU:HG2	2.18	0.44
5:an:122:VAL:HG11	5:an:151:LEU:HD13	1.99	0.44
5:as:111:LYS:HZ1	5:av:74:LYS:HE3	1.81	0.44
5:au:79:GLU:O	5:au:83:ILE:HG12	2.17	0.44
5:av:122:VAL:HG11	5:av:151:LEU:HD13	1.99	0.44
5:aw:75:GLN:O	5:aw:79:GLU:HG2	2.17	0.44
5:bN:122:VAL:HG11	5:bN:151:LEU:HD13	1.99	0.44
5:bO:75:GLN:O	5:bO:79:GLU:HG2	2.18	0.44
5:bQ:75:GLN:O	5:bQ:79:GLU:HG2	2.18	0.44
5:bY:79:GLU:O	5:bY:83:ILE:HG12	2.17	0.44
5:be:86:ILE:HD11	5:be:118:ARG:HE	1.82	0.44
5:bi:75:GLN:O	5:bi:79:GLU:HG2	2.18	0.44
5:bl:122:VAL:HG11	5:bl:151:LEU:HD13	1.98	0.44
5:bq:72:ILE:O	5:bq:76:LEU:HG	2.18	0.44
5:bu:86:ILE:HD11	5:bu:118:ARG:HE	1.82	0.44
5:bw:72:ILE:O	5:bw:76:LEU:HG	2.18	0.44
5:bw:75:GLN:O	5:bw:79:GLU:HG2	2.18	0.44
5:cI:55:ILE:HG21	5:co:116:ALA:HB2	1.99	0.44
5:cM:75:GLN:O	5:cM:79:GLU:HG2	2.18	0.44
5:cc:75:GLN:O	5:cc:79:GLU:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ch:122:VAL:HG11	5:ch:151:LEU:HD13	1.99	0.44
5:cs:79:GLU:O	5:cs:83:ILE:HG12	2.18	0.44
5:ct:112:ASP:OD1	5:ct:115:GLN:NE2	2.50	0.44
5:cx:112:ASP:OD1	5:cx:115:GLN:NE2	2.50	0.44
5:dU:75:GLN:O	5:dU:79:GLU:HG2	2.18	0.44
5:dc:111:LYS:HZ2	5:df:74:LYS:HE3	1.83	0.44
5:dk:143:ILE:HG22	5:dk:143:ILE:O	2.17	0.44
5:dm:113:ILE:O	5:dm:117:GLN:HG2	2.18	0.44
5:dy:54:SER:HB3	5:dy:56:ASN:OD1	2.18	0.44
5:dy:75:GLN:O	5:dy:79:GLU:HG2	2.18	0.44
5:eA:111:LYS:HZ2	5:eD:74:LYS:HE3	1.82	0.44
5:eM:79:GLU:O	5:eM:83:ILE:HG12	2.17	0.44
5:eS:72:ILE:O	5:eS:76:LEU:HG	2.18	0.44
5:eS:99:ASN:HB3	5:eS:102:VAL:HG22	2.00	0.44
5:eS:116:ALA:HB1	5:ey:55:ILE:HD13	2.00	0.44
5:ea:72:ILE:O	5:ea:76:LEU:HG	2.17	0.44
5:eg:75:GLN:O	5:eg:79:GLU:HG2	2.17	0.44
5:es:72:ILE:O	5:es:76:LEU:HG	2.18	0.44
5:fD:76:LEU:HD23	5:fD:79:GLU:OE2	2.18	0.44
5:fD:112:ASP:OD1	5:fD:115:GLN:NE2	2.49	0.44
5:fJ:122:VAL:HG11	5:fJ:151:LEU:HD13	1.99	0.44
5:fc:79:GLU:O	5:fc:83:ILE:HG12	2.17	0.44
5:fc:113:ILE:O	5:fc:117:GLN:HG2	2.17	0.44
5:fk:79:GLU:O	5:fk:83:ILE:HG12	2.17	0.44
5:ft:122:VAL:HG11	5:ft:151:LEU:HD13	1.98	0.44
5:fz:76:LEU:HD23	5:fz:79:GLU:OE2	2.18	0.44
1:AF:196:GLU:HB3	1:AF:265:ASN:HD22	1.83	0.44
1:AH:49:TRP:CE3	1:AH:74:SER:HB3	2.53	0.44
1:AX:212:LYS:HA	1:AX:215:LYS:HE3	2.00	0.44
1:Ad:55:ALA:O	1:Ap:86:TYR:OH	2.33	0.44
1:Am:150:ARG:NH2	2:CH:106:GLY:O	2.51	0.44
1:Ap:16:ILE:HD11	1:Ap:120:LYS:HE3	2.00	0.44
1:As:16:ILE:HD11	1:As:120:LYS:HE3	1.99	0.44
1:Aw:184:ILE:HG12	1:Aw:314:VAL:HG21	2.00	0.44
1:Az:89:ARG:HH21	1:Az:112:LEU:HD21	1.83	0.44
1:BE:43:TYR:HE2	1:BE:45:LYS:HE2	1.82	0.44
1:BH:91:LEU:HD21	1:BH:112:LEU:HD13	1.99	0.44
1:BH:173:ASP:HB3	1:BH:179:LYS:HG3	1.99	0.44
1:BI:277:MET:HA	1:BI:300:VAL:HB	2.00	0.44
1:BK:152:LEU:HD21	2:Ca:105:SER:HA	2.00	0.44
1:BM:257:HIS:CE1	1:BM:318:GLN:HG3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:278:LEU:HD12	5:EW:210:TYR:CG	2.53	0.44
2:CD:31:LEU:HD23	1:Tz:306:ALA:O	2.17	0.44
2:Ch:61:ASN:ND2	1:GM:59:THR:O	2.50	0.44
4:DD:43:VAL:O	4:DD:43:VAL:HG13	2.17	0.44
1:Er:49:TRP:CZ3	1:Er:74:SER:HB3	2.52	0.44
1:Eu:49:TRP:CZ3	1:Eu:74:SER:HB3	2.52	0.44
1:Eu:196:GLU:HB3	1:Eu:265:ASN:HD22	1.83	0.44
1:Ex:196:GLU:OE1	1:Ex:265:ASN:ND2	2.51	0.44
1:FD:24:ILE:HG12	1:FD:131:ASN:ND2	2.32	0.44
1:FH:165:ILE:HD13	1:FH:191:LEU:HD23	1.99	0.44
1:FI:87:LYS:NZ	2:Gh:53:THR:O	2.34	0.44
1:FM:257:HIS:CE1	1:FM:318:GLN:HG3	2.53	0.44
1:FP:169:VAL:HB	1:FP:316:ILE:HA	2.00	0.44
1:FR:57:PRO:HB2	1:FT:84:LEU:HB3	1.98	0.44
1:Fb:85:GLN:HE22	1:Fd:289:SER:HB2	1.83	0.44
1:Fh:55:ALA:O	1:Fo:86:TYR:OH	2.22	0.44
1:Fj:66:THR:OG1	2:Ls:54:SER:HB2	2.18	0.44
1:Fr:80:ASN:C	1:Fr:81:TYR:HD1	2.26	0.44
1:Fv:59:THR:HG21	2:HI:107:MET:HE3	2.00	0.44
1:Fv:87:LYS:NZ	2:HL:53:THR:O	2.38	0.44
1:Fv:163:GLU:O	1:Fv:164:GLN:NE2	2.50	0.44
1:GA:16:ILE:HD11	1:GA:120:LYS:HE3	1.99	0.44
1:GG:57:PRO:HG2	1:GJ:84:LEU:HD13	2.00	0.44
1:GP:86:TYR:OH	1:LB:55:ALA:O	2.31	0.44
1:GR:13:VAL:HA	1:GR:16:ILE:HG22	2.00	0.44
1:GT:54:ASN:HD22	1:GT:69:THR:C	2.24	0.44
2:Gc:137:LEU:HD11	2:Gc:159:ALA:HB2	2.00	0.44
2:Gq:130:GLY:O	2:Gq:147:LYS:NZ	2.51	0.44
2:Gu:23:LYS:N	2:Gu:67:TYR:OH	2.51	0.44
4:Hi:93:VAL:HG21	4:Hi:117:ILE:HD11	2.00	0.44
1:Jm:201:MET:HE3	1:Jm:201:MET:HB3	1.90	0.44
1:Jo:49:TRP:CZ3	1:Jo:74:SER:HB3	2.53	0.44
1:Jp:143:LYS:HA	4:MQ:39:ARG:HE	1.82	0.44
1:Jx:87:LYS:HE2	1:Jx:296:TYR:OH	2.18	0.44
1:Jx:165:ILE:HD13	1:Jx:191:LEU:HD23	1.99	0.44
1:KB:212:LYS:HA	1:KB:215:LYS:HE3	2.00	0.44
1:KH:77:VAL:HG11	1:KH:305:LEU:HD13	2.00	0.44
1:KI:55:ALA:O	1:KM:86:TYR:OH	2.29	0.44
1:KY:66:THR:OG1	2:Qh:54:SER:HB2	2.18	0.44
1:Ka:196:GLU:OE1	1:Ka:265:ASN:ND2	2.45	0.44
1:Kc:24:ILE:HG12	1:Kc:131:ASN:ND2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kg:87:LYS:NZ	2:Ly:53:THR:O	2.39	0.44
1:Kk:31:PRO:HG3	5:Nu:218:TYR:CD1	2.53	0.44
1:Ko:255:LEU:HD22	1:Ko:258:LYS:HB2	1.99	0.44
1:Kx:43:TYR:HE2	1:Kx:45:LYS:HE2	1.82	0.44
1:LD:79:LEU:HD11	1:LD:305:LEU:HB2	2.00	0.44
1:LF:31:PRO:HG3	5:OP:218:TYR:CD1	2.53	0.44
2:LR:167:THR:HB	2:LR:170:LEU:HB3	2.00	0.44
2:LU:123:LEU:HD13	2:LU:173:VAL:HG11	2.00	0.44
2:Lc:123:LEU:HD21	2:Lc:131:VAL:HG21	1.98	0.44
2:MA:167:THR:HG22	2:MA:168:GLU:H	1.83	0.44
2:MH:75:LEU:HD22	2:MH:84:LEU:HD13	2.00	0.44
2:MK:64:ALA:HB2	2:MK:108:ALA:HB2	2.00	0.44
4:MY:165:ALA:HA	4:MY:181:VAL:HG12	2.00	0.44
4:Mn:35:SER:O	4:Mn:41:LYS:HD2	2.18	0.44
1:OZ:66:THR:OG1	2:QB:54:SER:HB2	2.18	0.44
1:Ob:33:GLN:NE2	1:Ob:269:ILE:O	2.48	0.44
1:Oe:205:VAL:HG12	1:Oe:259:ILE:HG23	2.00	0.44
1:Of:112:LEU:HD12	1:Of:112:LEU:HA	1.90	0.44
1:Og:86:TYR:OH	1:Om:55:ALA:O	2.29	0.44
1:On:142:GLN:HA	2:QM:40:ASP:OD1	2.18	0.44
1:Or:157:GLY:N	1:Or:160:ASN:OD1	2.42	0.44
1:Or:259:ILE:HB	1:Or:314:VAL:HB	1.99	0.44
1:Os:28:TRP:CZ3	1:Os:135:LEU:HB2	2.52	0.44
1:PD:256:LYS:O	1:PD:258:LYS:HG2	2.18	0.44
1:PR:197:PHE:HD1	1:PR:243:ASN:HB2	1.83	0.44
1:PS:31:PRO:HG3	5:Sc:218:TYR:CD1	2.53	0.44
1:PZ:143:LYS:HA	2:Qp:39:ARG:HE	1.82	0.44
1:Pa:173:ASP:HB3	1:Pa:179:LYS:HG3	1.99	0.44
1:Pb:277:MET:HA	1:Pb:300:VAL:HB	2.00	0.44
1:Pj:288:ASP:OD1	1:Pj:289:SER:N	2.45	0.44
1:Px:24:ILE:HG12	1:Px:131:ASN:ND2	2.33	0.44
2:Py:183:ILE:HA	2:QA:183:ILE:HG12	1.99	0.44
2:QZ:140:ASN:HD21	2:QZ:144:GLU:HB2	1.83	0.44
2:Qi:22:MET:HA	2:Qi:67:TYR:CZ	2.53	0.44
2:Qz:64:ALA:HB2	2:Qz:108:ALA:HB2	2.00	0.44
4:RK:149:LEU:HD13	4:RK:181:VAL:HG21	2.00	0.44
4:Rb:26:GLN:NE2	4:Rb:28:ASP:OD1	2.50	0.44
1:Td:8:TYR:CD2	1:Td:93:GLN:HG3	2.53	0.44
1:Ti:13:VAL:HA	1:Ti:16:ILE:HG22	1.99	0.44
1:Tk:242:ASN:ND2	1:Tk:245:GLU:HB2	2.33	0.44
1:Tt:13:VAL:HA	1:Tt:16:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Tx:89:ARG:HH21	1:Tx:112:LEU:HD13	1.83	0.44
1:UF:257:HIS:CE1	1:UF:318:GLN:HG3	2.53	0.44
1:UI:174:LYS:HE3	1:UI:318:GLN:HG3	1.99	0.44
1:UZ:41:MET:HE3	1:UZ:82:LEU:HD12	2.00	0.44
1:Ue:158:LEU:HB3	1:Ue:260:LEU:HD21	2.00	0.44
2:Uw:125:LYS:NZ	2:Uw:168:GLU:O	2.47	0.44
2:VG:133:PRO:HG3	2:VG:161:SER:HA	1.99	0.44
2:VL:160:LEU:HD11	4:WD:75:ARG:HH12	1.83	0.44
2:VX:22:MET:HA	2:VX:67:TYR:CZ	2.53	0.44
4:Vw:105:CYS:SG	4:Vw:115:ALA:HB1	2.58	0.44
4:WK:43:VAL:O	4:WK:43:VAL:HG13	2.17	0.44
4:WK:161:ILE:HA	4:WK:186:ASN:HA	1.98	0.44
4:WO:43:VAL:O	4:WO:43:VAL:HG13	2.18	0.44
5:Xp:211:LYS:HG3	5:Xp:214:ARG:HH21	1.83	0.44
6:YH:85:THR:HA	6:YH:102:ILE:HG12	2.00	0.44
5:YQ:72:ILE:O	5:YQ:76:LEU:HG	2.18	0.44
5:YQ:134:ILE:HD11	5:YT:150:GLN:HA	1.99	0.44
5:YX:110:LEU:HD11	5:YY:81:GLU:HG3	1.98	0.44
5:YY:126:VAL:HG23	5:YY:155:ALA:HB2	2.00	0.44
5:Yf:126:VAL:HG13	5:Yf:154:LEU:HD23	1.99	0.44
5:ZG:73:GLU:O	5:ZG:77:LEU:HG	2.18	0.44
5:Zc:75:GLN:O	5:Zc:79:GLU:HG2	2.18	0.44
5:Zn:122:VAL:HG11	5:Zn:151:LEU:HD13	1.99	0.44
5:Zs:75:GLN:O	5:Zs:79:GLU:HG2	2.18	0.44
5:Zv:118:ARG:O	5:Zv:122:VAL:HG23	2.18	0.44
5:aJ:122:VAL:HG11	5:aJ:151:LEU:HD13	1.99	0.44
5:aM:113:ILE:O	5:aM:117:GLN:HG2	2.17	0.44
5:aU:79:GLU:O	5:aU:83:ILE:HG12	2.17	0.44
5:ae:79:GLU:O	5:ae:83:ILE:HG12	2.17	0.44
5:am:72:ILE:O	5:am:76:LEU:HG	2.18	0.44
5:ar:118:ARG:O	5:ar:122:VAL:HG23	2.18	0.44
5:as:72:ILE:O	5:as:76:LEU:HG	2.18	0.44
5:au:113:ILE:O	5:au:117:GLN:HG2	2.17	0.44
5:bG:72:ILE:O	5:bG:76:LEU:HG	2.18	0.44
5:bX:118:ARG:O	5:bX:122:VAL:HG23	2.18	0.44
5:bc:72:ILE:O	5:bc:76:LEU:HG	2.18	0.44
5:be:57:GLU:HA	5:be:60:THR:HG22	2.00	0.44
5:bi:99:ASN:O	5:bi:103:LEU:HG	2.17	0.44
5:bk:57:GLU:HA	5:bk:60:THR:HG22	1.99	0.44
5:bl:118:ARG:O	5:bl:122:VAL:HG23	2.18	0.44
5:br:118:ARG:O	5:br:122:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bx:112:ASP:OD1	5:bx:115:GLN:NE2	2.49	0.44
5:cC:72:ILE:O	5:cC:76:LEU:HG	2.18	0.44
5:cE:75:GLN:O	5:cE:79:GLU:HG2	2.18	0.44
5:cL:112:ASP:OD1	5:cL:115:GLN:NE2	2.48	0.44
5:cN:118:ARG:O	5:cN:122:VAL:HG23	2.18	0.44
5:cP:112:ASP:OD1	5:cP:115:GLN:NE2	2.48	0.44
5:cT:118:ARG:O	5:cT:122:VAL:HG23	2.18	0.44
5:cb:122:VAL:HG11	5:cb:151:LEU:HD13	1.99	0.44
5:ci:75:GLN:O	5:ci:79:GLU:HG2	2.18	0.44
5:cm:72:ILE:O	5:cm:76:LEU:HG	2.18	0.44
5:cw:98:PHE:HB3	5:cw:117:GLN:HE22	1.82	0.44
5:dA:111:LYS:HZ1	5:dD:74:LYS:HE3	1.81	0.44
5:dP:118:ARG:O	5:dP:122:VAL:HG23	2.18	0.44
5:dQ:72:ILE:O	5:dQ:76:LEU:HG	2.18	0.44
5:dR:118:ARG:O	5:dR:122:VAL:HG23	2.18	0.44
5:dY:75:GLN:O	5:dY:79:GLU:HG2	2.18	0.44
5:di:75:GLN:O	5:di:79:GLU:HG2	2.17	0.44
5:do:72:ILE:O	5:do:76:LEU:HG	2.18	0.44
5:dq:56:ASN:N	5:eY:147:ILE:HG13	2.32	0.44
5:ds:59:ILE:O	5:ds:63:LEU:HD23	2.18	0.44
5:ds:79:GLU:O	5:ds:83:ILE:HG12	2.17	0.44
5:ds:99:ASN:HB3	5:ds:102:VAL:HG22	2.00	0.44
5:dw:59:ILE:O	5:dw:63:LEU:HD23	2.18	0.44
5:dz:118:ARG:O	5:dz:122:VAL:HG23	2.18	0.44
5:eH:118:ARG:O	5:eH:122:VAL:HG23	2.18	0.44
5:eK:113:ILE:O	5:eK:117:GLN:HG2	2.18	0.44
5:eU:94:LEU:HD11	5:eU:121:LEU:HG	1.99	0.44
5:ed:118:ARG:O	5:ed:122:VAL:HG23	2.17	0.44
5:ee:79:GLU:O	5:ee:83:ILE:HG12	2.17	0.44
5:em:72:ILE:O	5:em:76:LEU:HG	2.18	0.44
5:en:74:LYS:HE3	5:eo:111:LYS:HZ2	1.82	0.44
5:es:116:ALA:HB1	5:fY:55:ILE:HD13	1.99	0.44
5:ew:72:ILE:O	5:ew:76:LEU:HG	2.18	0.44
5:fH:118:ARG:O	5:fH:122:VAL:HG23	2.18	0.44
5:fI:79:GLU:O	5:fI:83:ILE:HG12	2.17	0.44
5:fK:79:GLU:O	5:fK:83:ILE:HG12	2.17	0.44
5:fL:118:ARG:O	5:fL:122:VAL:HG23	2.18	0.44
5:fP:76:LEU:HD23	5:fP:79:GLU:OE2	2.18	0.44
5:fQ:79:GLU:O	5:fQ:83:ILE:HG12	2.17	0.44
5:fU:113:ILE:O	5:fU:117:GLN:HG2	2.17	0.44
5:fY:79:GLU:O	5:fY:83:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fZ:118:ARG:O	5:fZ:122:VAL:HG23	2.18	0.44
5:fm:72:ILE:O	5:fm:76:LEU:HG	2.18	0.44
5:ft:118:ARG:O	5:ft:122:VAL:HG23	2.18	0.44
5:fx:76:LEU:HD23	5:fx:79:GLU:OE2	2.18	0.44
5:fy:79:GLU:O	5:fy:83:ILE:HG12	2.17	0.44
5:gD:118:ARG:O	5:gD:122:VAL:HG23	2.18	0.44
1:AM:112:LEU:HD12	1:AM:112:LEU:HA	1.90	0.44
1:AO:59:THR:O	2:Bt:61:ASN:ND2	2.50	0.44
1:AP:66:THR:HG22	4:Cn:52:ARG:HB3	1.98	0.44
1:AT:165:ILE:HD13	1:AT:191:LEU:HD23	1.99	0.44
1:Aj:89:ARG:NH2	1:Aj:112:LEU:HD21	2.33	0.44
1:Am:39:LEU:O	1:Am:274:SER:OG	2.29	0.44
1:Am:85:GLN:HE22	1:Ao:289:SER:HB2	1.83	0.44
1:An:49:TRP:CE3	1:An:74:SER:HB3	2.53	0.44
1:Ao:13:VAL:HA	1:Ao:16:ILE:HG22	1.99	0.44
1:Ay:174:LYS:O	1:Ay:212:LYS:NZ	2.51	0.44
1:BH:107:ASP:OD2	1:BH:110:ASN:ND2	2.34	0.44
1:BQ:91:LEU:HD21	1:BQ:112:LEU:HD13	1.98	0.44
1:BS:113:LEU:HD11	1:BV:49:TRP:CE3	2.53	0.44
1:BT:43:TYR:HE2	1:BT:45:LYS:HE2	1.82	0.44
1:Bb:31:PRO:HG3	5:El:218:TYR:CD1	2.53	0.44
2:Bf:183:ILE:HA	2:Bh:183:ILE:HG12	1.99	0.44
2:Bq:123:LEU:HD13	2:Bq:173:VAL:HG11	2.00	0.44
2:Br:63:PRO:HB2	2:Br:85:GLU:HG2	1.99	0.44
2:CC:133:PRO:HG3	2:CC:161:SER:HA	1.99	0.44
2:CP:22:MET:HA	2:CP:67:TYR:CZ	2.53	0.44
2:CW:75:LEU:HD22	2:CW:84:LEU:HD13	2.00	0.44
4:Cp:142:ILE:HD11	4:Cp:152:VAL:HG22	1.99	0.44
4:Ct:93:VAL:HG21	4:Ct:117:ILE:HD11	2.00	0.44
4:Cw:173:SER:HB3	4:Cw:176:VAL:HB	2.00	0.44
4:Cy:22:MET:HB3	4:Cy:23:LYS:H	1.55	0.44
4:DD:166:LEU:HD12	4:DD:180:LYS:HE2	1.99	0.44
4:DI:144:ASN:HD21	4:DI:148:ALA:HB3	1.83	0.44
5:ES:211:LYS:HG3	5:ES:214:ARG:HH21	1.83	0.44
1:Eu:87:LYS:NZ	2:GY:53:THR:O	2.44	0.44
1:FA:143:LYS:HA	4:Hb:39:ARG:HE	1.82	0.44
1:FG:165:ILE:HD13	1:FG:191:LEU:HD23	2.00	0.44
1:FO:80:ASN:ND2	1:FO:154:ASN:HB2	2.33	0.44
1:Fc:49:TRP:CE3	1:Fc:74:SER:HB3	2.53	0.44
1:Fe:80:ASN:HB2	1:Fe:155:MET:HG3	1.98	0.44
1:Fe:89:ARG:HH21	1:Fe:112:LEU:HD13	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fp:66:THR:HG22	2:HB:52:CYS:HB3	2.00	0.44
1:Fw:259:ILE:HB	1:Fw:314:VAL:HB	2.00	0.44
1:GK:259:ILE:HB	1:GK:314:VAL:HB	1.99	0.44
1:GM:26:TYR:O	5:JW:218:TYR:OH	2.30	0.44
1:GQ:158:LEU:HB3	1:GQ:260:LEU:HD21	2.00	0.44
2:Gl:166:LEU:HB2	2:Gl:170:LEU:HD23	2.00	0.44
3:HY:104:LYS:H	3:HY:162:ASN:ND2	2.15	0.44
4:Hl:173:SER:HB3	4:Hl:176:VAL:HB	2.00	0.44
4:Hp:149:LEU:HD13	4:Hp:181:VAL:HG21	2.00	0.44
1:Jg:113:LEU:HD11	1:OU:49:TRP:CE3	2.53	0.44
1:Jk:196:GLU:HB3	1:Jk:265:ASN:ND2	2.32	0.44
1:Jp:283:GLU:HB2	5:Mz:199:PHE:CD2	2.53	0.44
1:KH:239:LYS:HA	1:KH:242:ASN:OD1	2.18	0.44
1:KJ:306:ALA:O	4:MX:31:LEU:HB2	2.18	0.44
1:KL:20:VAL:O	5:NV:213:ARG:NH2	2.32	0.44
1:KO:256:LYS:O	1:KO:258:LYS:HG2	2.18	0.44
1:KS:13:VAL:HA	1:KS:16:ILE:HG22	1.99	0.44
1:KS:188:LEU:HD23	1:KS:188:LEU:HA	1.88	0.44
1:KV:308:ARG:H	2:QW:34:ASN:ND2	2.16	0.44
1:Ka:184:ILE:HG12	1:Ka:314:VAL:HG21	2.00	0.44
1:Kk:143:LYS:HA	2:MA:39:ARG:HE	1.82	0.44
1:Kl:259:ILE:HB	1:Kl:314:VAL:HB	2.00	0.44
1:Ku:258:LYS:HZ2	1:Ku:315:ASN:HB2	1.83	0.44
1:LA:173:ASP:HB3	1:LA:179:LYS:HG3	1.99	0.44
1:LF:26:TYR:O	5:OP:218:TYR:OH	2.33	0.44
2:MF:125:LYS:HD2	2:MF:169:ASP:HA	2.00	0.44
2:MH:157:ALA:HB2	2:MH:177:VAL:HG22	2.00	0.44
1:Od:49:TRP:CZ3	1:Od:74:SER:HB3	2.53	0.44
1:Of:80:ASN:ND2	1:Of:153:PRO:O	2.50	0.44
1:Ol:152:LEU:HD21	2:QM:105:SER:HA	1.98	0.44
1:PA:49:TRP:CE3	1:PA:74:SER:HB3	2.53	0.44
1:PN:31:PRO:HG3	5:SX:218:TYR:CD1	2.53	0.44
1:PU:49:TRP:CZ3	1:PU:74:SER:HB3	2.52	0.44
1:Pa:307:THR:O	1:Pa:310:THR:OG1	2.36	0.44
1:Pf:107:ASP:OD2	1:Pf:110:ASN:ND2	2.35	0.44
1:Pi:89:ARG:HH21	1:Pi:112:LEU:HD21	1.83	0.44
1:Pk:13:VAL:HA	1:Pk:16:ILE:HG22	2.00	0.44
1:Po:20:VAL:HG23	5:Sy:213:ARG:HH22	1.83	0.44
2:Qf:166:LEU:HB2	2:Qf:170:LEU:HD23	2.00	0.44
2:Qp:137:LEU:HB3	2:Qp:145:LEU:HD22	2.00	0.44
2:Qp:167:THR:HG22	2:Qp:168:GLU:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Qu:125:LYS:HD2	2:Qu:169:ASP:HA	2.00	0.44
2:Qw:157:ALA:HB2	2:Qw:177:VAL:HG22	2.00	0.44
4:RI:77:ILE:HG12	4:RI:91:PRO:HB3	1.99	0.44
4:RP:173:SER:HB3	4:RP:176:VAL:HB	2.00	0.44
1:TK:87:LYS:NZ	2:Uo:53:THR:O	2.39	0.44
1:TU:84:LEU:HB3	1:TX:57:PRO:HB2	1.99	0.44
1:Tc:142:GLN:HA	2:VB:40:ASP:OD1	2.18	0.44
1:Te:31:PRO:HG3	5:Wo:218:TYR:CD1	2.53	0.44
1:Te:239:LYS:HA	1:Te:242:ASN:OD1	2.18	0.44
1:Tg:257:HIS:HB3	1:Tg:316:ILE:HB	1.99	0.44
1:Ts:256:LYS:O	1:Ts:258:LYS:HG2	2.18	0.44
1:Ts:257:HIS:HB2	1:Ts:316:ILE:HB	2.00	0.44
1:Ty:158:LEU:HB3	1:Ty:260:LEU:HD21	2.00	0.44
1:UH:89:ARG:HH21	1:UH:112:LEU:HD21	1.83	0.44
1:UK:26:TYR:O	5:XU:218:TYR:OH	2.28	0.44
1:UV:260:LEU:HD23	1:UV:260:LEU:HA	1.86	0.44
1:Ue:201:MET:HE3	1:Ue:201:MET:HB3	1.93	0.44
1:Ug:41:MET:HE3	1:Ug:82:LEU:HD12	1.98	0.44
1:Ul:194:GLY:HA3	2:Vq:36:ILE:HG21	2.00	0.44
2:Ur:56:LYS:HD2	4:Vs:56:PHE:HD1	1.82	0.44
2:VV:69:TYR:CE2	2:VV:70:LYS:HG2	2.53	0.44
4:WI:149:LEU:HD13	4:WI:181:VAL:HG21	2.00	0.44
5:Xa:211:LYS:HG3	5:Xa:214:ARG:HH21	1.83	0.44
6:Xx:181:GLU:HA	6:YG:172:LEU:HD21	1.99	0.44
6:YB:246:ARG:HD2	6:YC:255:GLU:OE2	2.18	0.44
6:YE:320:ASN:HB3	6:YE:368:GLN:HE22	1.82	0.44
6:YF:13:ILE:HG21	6:YF:167:LEU:HB3	2.00	0.44
6:YG:305:GLU:OE1	6:YG:308:THR:N	2.42	0.44
5:YT:79:GLU:O	5:YT:83:ILE:HG12	2.17	0.44
5:YX:99:ASN:O	5:YX:103:LEU:HG	2.18	0.44
5:Yg:145:GLY:H	5:Yg:148:LEU:HB3	1.83	0.44
5:Ym:55:ILE:O	5:Ym:59:ILE:HG12	2.18	0.44
5:Yt:75:GLN:NE2	5:Yt:79:GLU:OE1	2.51	0.44
5:Yx:76:LEU:HD23	5:Yx:79:GLU:OE2	2.18	0.44
5:ZE:56:ASN:ND2	5:Zc:141:SER:HB3	2.30	0.44
5:ZI:143:ILE:HG22	5:ZI:143:ILE:O	2.17	0.44
5:ZQ:72:ILE:O	5:ZQ:76:LEU:HG	2.18	0.44
5:Za:119:ARG:HB3	5:Za:123:ARG:NH1	2.33	0.44
5:Zc:72:ILE:O	5:Zc:76:LEU:HG	2.18	0.44
5:Zi:72:ILE:O	5:Zi:76:LEU:HG	2.18	0.44
5:Zj:118:ARG:O	5:Zj:122:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Zo:75:GLN:O	5:Zo:79:GLU:HG2	2.18	0.44
5:Zp:118:ARG:O	5:Zp:122:VAL:HG23	2.18	0.44
5:Zs:95:SER:HB3	5:Zs:98:PHE:CE1	2.53	0.44
5:Zu:75:GLN:O	5:Zu:79:GLU:HG2	2.18	0.44
5:aM:72:ILE:O	5:aM:76:LEU:HG	2.18	0.44
5:aR:118:ARG:O	5:aR:122:VAL:HG23	2.18	0.44
5:aY:79:GLU:O	5:aY:83:ILE:HG12	2.18	0.44
5:ae:75:GLN:O	5:ae:79:GLU:HG2	2.18	0.44
5:an:118:ARG:O	5:an:122:VAL:HG23	2.18	0.44
5:ao:99:ASN:O	5:ao:103:LEU:HG	2.18	0.44
5:ap:118:ARG:O	5:ap:122:VAL:HG23	2.18	0.44
5:az:118:ARG:O	5:az:122:VAL:HG23	2.18	0.44
5:az:122:VAL:HG11	5:az:151:LEU:HD13	2.00	0.44
5:bE:75:GLN:O	5:bE:79:GLU:HG2	2.18	0.44
5:bF:122:VAL:HG11	5:bF:151:LEU:HD13	1.99	0.44
5:bM:75:GLN:O	5:bM:79:GLU:HG2	2.18	0.44
5:bS:99:ASN:O	5:bS:103:LEU:HG	2.18	0.44
5:bW:72:ILE:O	5:bW:76:LEU:HG	2.18	0.44
5:bY:72:ILE:O	5:bY:76:LEU:HG	2.18	0.44
5:bb:118:ARG:O	5:bb:122:VAL:HG23	2.18	0.44
5:bf:118:ARG:O	5:bf:122:VAL:HG23	2.18	0.44
5:bj:118:ARG:O	5:bj:122:VAL:HG23	2.18	0.44
5:bo:86:ILE:HD11	5:bo:118:ARG:HE	1.83	0.44
5:bp:118:ARG:O	5:bp:122:VAL:HG23	2.18	0.44
5:bt:122:VAL:HG11	5:bt:151:LEU:HD13	1.99	0.44
5:cI:75:GLN:O	5:cI:79:GLU:HG2	2.18	0.44
5:cM:72:ILE:O	5:cM:76:LEU:HG	2.18	0.44
5:cO:79:GLU:O	5:cO:83:ILE:HG12	2.17	0.44
5:cT:112:ASP:OD1	5:cT:115:GLN:NE2	2.49	0.44
5:cY:75:GLN:O	5:cY:79:GLU:HG2	2.18	0.44
5:cm:79:GLU:O	5:cm:83:ILE:HG12	2.17	0.44
5:cp:118:ARG:O	5:cp:122:VAL:HG23	2.18	0.44
5:cx:122:VAL:HG11	5:cx:151:LEU:HD13	1.99	0.44
5:dA:75:GLN:O	5:dA:79:GLU:HG2	2.18	0.44
5:dA:79:GLU:O	5:dA:83:ILE:HG12	2.18	0.44
5:dG:55:ILE:HD13	5:dm:116:ALA:HB1	2.00	0.44
5:dM:113:ILE:O	5:dM:117:GLN:HG2	2.17	0.44
5:dN:118:ARG:O	5:dN:122:VAL:HG23	2.18	0.44
5:dR:122:VAL:HG11	5:dR:151:LEU:HD13	1.99	0.44
5:da:75:GLN:O	5:da:79:GLU:HG2	2.18	0.44
5:de:75:GLN:O	5:de:79:GLU:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dj:118:ARG:O	5:dj:122:VAL:HG23	2.18	0.44
5:dw:79:GLU:O	5:dw:83:ILE:HG12	2.18	0.44
5:eF:118:ARG:O	5:eF:122:VAL:HG23	2.18	0.44
5:eM:72:ILE:O	5:eM:76:LEU:HG	2.18	0.44
5:ei:75:GLN:O	5:ei:79:GLU:HG2	2.17	0.44
5:ek:72:ILE:O	5:ek:76:LEU:HG	2.18	0.44
5:el:112:ASP:OD1	5:el:115:GLN:NE2	2.48	0.44
5:el:118:ARG:O	5:el:122:VAL:HG23	2.17	0.44
5:ep:76:LEU:HD23	5:ep:79:GLU:OE2	2.18	0.44
5:er:118:ARG:O	5:er:122:VAL:HG23	2.17	0.44
5:ez:76:LEU:HD23	5:ez:79:GLU:OE2	2.18	0.44
5:fB:76:LEU:HD23	5:fB:79:GLU:OE2	2.18	0.44
5:fR:76:LEU:HD23	5:fR:79:GLU:OE2	2.18	0.44
5:fR:122:VAL:HG11	5:fR:151:LEU:HD13	2.00	0.44
5:fV:118:ARG:O	5:fV:122:VAL:HG23	2.18	0.44
5:fX:76:LEU:HD23	5:fX:79:GLU:OE2	2.18	0.44
5:fa:79:GLU:O	5:fa:83:ILE:HG12	2.18	0.44
5:fi:72:ILE:O	5:fi:76:LEU:HG	2.18	0.44
5:fr:118:ARG:O	5:fr:122:VAL:HG23	2.18	0.44
5:fv:118:ARG:O	5:fv:122:VAL:HG23	2.18	0.44
5:fx:118:ARG:O	5:fx:122:VAL:HG23	2.18	0.44
5:fz:143:ILE:HD12	5:fz:143:ILE:HA	1.92	0.44
5:gD:76:LEU:HD23	5:gD:79:GLU:OE2	2.18	0.44
1:AG:66:THR:OG1	2:Bi:54:SER:HB2	2.18	0.43
1:AL:205:VAL:HG12	1:AL:259:ILE:HG23	2.00	0.43
1:AP:194:GLY:HA3	4:Cn:36:ASN:HB2	1.99	0.43
1:AR:165:ILE:HD13	1:AR:191:LEU:HD23	2.00	0.43
1:AX:257:HIS:CE1	1:AX:318:GLN:HG3	2.53	0.43
1:Aa:85:GLN:HB3	1:BY:60:ILE:HD11	2.00	0.43
1:Ac:163:GLU:HB2	2:CB:31:LEU:HD13	2.00	0.43
1:Au:31:PRO:HG3	5:EE:218:TYR:CD1	2.53	0.43
1:Av:288:ASP:OD1	1:Av:289:SER:N	2.44	0.43
1:BH:259:ILE:HB	1:BH:314:VAL:HB	2.00	0.43
1:BV:86:TYR:OH	1:BW:55:ALA:O	2.19	0.43
1:Bb:307:THR:HB	1:Bb:310:THR:HG21	1.99	0.43
2:Bn:137:LEU:HD11	2:Bn:159:ALA:HB2	2.00	0.43
2:CD:160:LEU:HD11	4:Cv:75:ARG:HH12	1.83	0.43
2:CF:140:ASN:HD21	2:CF:144:GLU:HB2	1.82	0.43
2:CK:165:LYS:HB2	2:CK:171:PHE:CE2	2.52	0.43
2:CO:54:SER:HB2	1:UC:66:THR:OG1	2.18	0.43
1:Ez:49:TRP:CZ3	1:Ez:74:SER:HB3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:205:VAL:HG12	1:FA:259:ILE:HG23	2.00	0.43
1:FE:80:ASN:HB2	1:FE:155:MET:HG3	2.00	0.43
1:FG:278:LEU:HD23	1:FG:278:LEU:HA	1.83	0.43
1:FK:258:LYS:HZ2	1:FK:315:ASN:HB2	1.83	0.43
1:FN:257:HIS:HB3	1:FN:316:ILE:HB	1.99	0.43
1:FR:163:GLU:HB2	2:Gq:31:LEU:HD13	2.00	0.43
1:FS:8:TYR:CG	1:FS:93:GLN:HG3	2.53	0.43
1:FS:86:TYR:OH	1:FV:55:ALA:O	2.34	0.43
1:FU:306:ALA:O	4:Hi:31:LEU:HB2	2.18	0.43
1:FX:196:GLU:HB3	1:FX:265:ASN:HD22	1.82	0.43
1:Fe:16:ILE:HD11	1:Fe:120:LYS:HE3	2.00	0.43
1:Fg:205:VAL:HG12	1:Fg:259:ILE:HG23	2.00	0.43
1:Fh:78:ARG:O	1:Fh:154:ASN:ND2	2.32	0.43
1:Fn:174:LYS:O	1:Fn:212:LYS:NZ	2.51	0.43
1:Fv:31:PRO:HG3	5:JF:218:TYR:CD1	2.53	0.43
1:GE:211:LEU:HD23	1:GE:211:LEU:HA	1.86	0.43
1:GI:87:LYS:NZ	2:HS:53:THR:O	2.36	0.43
1:GS:194:GLY:HA3	2:HX:36:ILE:HG21	2.00	0.43
1:GT:16:ILE:HD11	1:GT:120:LYS:HE3	2.00	0.43
2:Ge:125:LYS:HD2	2:Ge:169:ASP:HA	1.98	0.43
2:Gz:156:ASN:ND2	2:Gz:180:ASN:O	2.50	0.43
2:HF:156:ASN:HB3	2:HF:178:PHE:CZ	2.53	0.43
2:HI:59:ILE:HG22	2:HI:111:ILE:HG12	2.00	0.43
2:HO:37:ASP:O	2:HO:41:GLN:NE2	2.51	0.43
2:HQ:125:LYS:HD2	2:HQ:169:ASP:HA	2.00	0.43
2:HV:64:ALA:HB2	2:HV:108:ALA:HB2	2.00	0.43
2:HW:23:LYS:N	2:HW:67:TYR:OH	2.48	0.43
4:Hq:43:VAL:O	4:Hq:43:VAL:HG13	2.18	0.43
1:Jr:80:ASN:HD22	1:Jr:154:ASN:HB2	1.82	0.43
1:Jy:142:GLN:HA	2:LX:40:ASP:OD1	2.18	0.43
1:KG:66:THR:HG22	2:Lf:52:CYS:SG	2.57	0.43
1:KG:163:GLU:HB2	2:Lf:31:LEU:HD13	2.00	0.43
1:KH:8:TYR:CG	1:KH:93:GLN:HG3	2.53	0.43
1:KP:13:VAL:HA	1:KP:16:ILE:HG22	1.99	0.43
1:KU:84:LEU:HB3	1:PB:57:PRO:HB2	1.98	0.43
1:Kg:80:ASN:C	1:Kg:81:TYR:HD1	2.26	0.43
1:Kg:257:HIS:HB2	1:Kg:316:ILE:HB	2.00	0.43
1:Kr:259:ILE:HB	1:Kr:314:VAL:HB	2.00	0.43
1:Kz:201:MET:HE3	1:Kz:201:MET:HB3	1.92	0.43
1:LF:77:VAL:HG11	1:LF:305:LEU:HD13	1.99	0.43
1:LI:45:LYS:HA	1:LI:77:VAL:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:LK:23:LYS:HE2	2:LK:48:SER:HB3	1.99	0.43
2:LR:137:LEU:HD11	2:LR:159:ALA:HB2	2.00	0.43
2:LU:23:LYS:HB2	2:LU:23:LYS:HE3	1.80	0.43
2:LV:56:LYS:HD2	4:MS:56:PHE:HD1	1.83	0.43
2:Lj:23:LYS:N	2:Lj:67:TYR:OH	2.51	0.43
4:MV:149:LEU:HD13	4:MV:181:VAL:HG21	2.00	0.43
4:Ma:173:SER:HB3	4:Ma:176:VAL:HB	2.00	0.43
4:Mh:144:ASN:OD1	4:Mh:148:ALA:N	2.42	0.43
1:OT:152:LEU:HD21	2:Pz:105:SER:HA	2.00	0.43
1:Od:261:ILE:HD12	1:Od:312:LEU:HD23	2.00	0.43
1:Og:57:PRO:HA	1:Ok:86:TYR:CE1	2.53	0.43
1:Oo:13:VAL:HA	1:Oo:16:ILE:HG22	2.00	0.43
1:Or:85:GLN:HE22	1:Pw:289:SER:HB2	1.82	0.43
1:Os:80:ASN:ND2	1:Os:154:ASN:HB2	2.33	0.43
1:Oy:306:ALA:O	4:RM:31:LEU:HB2	2.18	0.43
1:Oz:132:HIS:HA	1:Oz:254:LEU:HD13	1.99	0.43
1:PC:89:ARG:NH2	1:PC:112:LEU:HD21	2.33	0.43
1:PN:28:TRP:CZ3	1:PN:135:LEU:HB2	2.53	0.43
1:PN:66:THR:OG1	2:VW:54:SER:HB2	2.18	0.43
1:PQ:257:HIS:CE1	1:PQ:318:GLN:HG3	2.53	0.43
1:Pa:107:ASP:OD2	1:Pa:110:ASN:ND2	2.34	0.43
1:Pj:84:LEU:HD13	1:Pt:57:PRO:HB2	2.00	0.43
1:Pr:41:MET:HE3	1:Pr:82:LEU:HD12	1.98	0.43
1:Pu:195:ASP:H	4:WQ:36:ASN:CB	2.31	0.43
1:Pw:257:HIS:CE1	1:Pw:318:GLN:HG3	2.53	0.43
2:QU:130:GLY:O	2:QU:147:LYS:NZ	2.51	0.43
2:Qr:76:SER:HB3	2:Qr:87:GLU:HG2	1.98	0.43
2:Qr:156:ASN:HB3	2:Qr:178:PHE:CZ	2.53	0.43
2:Qs:37:ASP:O	2:Qs:41:GLN:NE2	2.51	0.43
4:RH:105:CYS:SG	4:RH:115:ALA:HB1	2.58	0.43
4:RV:43:VAL:O	4:RV:43:VAL:HG13	2.17	0.43
5:TA:211:LYS:HG3	5:TA:214:ARG:HH21	1.83	0.43
1:TO:66:THR:OG1	2:Uq:54:SER:HB2	2.18	0.43
1:TS:164:GLN:OE1	1:TS:311:ILE:N	2.51	0.43
1:TT:143:LYS:HA	4:Vu:39:ARG:HE	1.82	0.43
1:TT:205:VAL:HG12	1:TT:259:ILE:HG23	2.00	0.43
1:TX:66:THR:HG22	4:Vv:52:ARG:HB3	1.98	0.43
1:Tf:257:HIS:CE1	1:Tf:318:GLN:HG3	2.53	0.43
1:To:66:THR:HA	3:Vr:100:SER:HB2	2.00	0.43
1:Tu:85:GLN:HE22	1:Tw:289:SER:HB2	1.83	0.43
1:Tv:87:LYS:NZ	4:WF:53:THR:O	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Tw:261:ILE:HD12	1:Tw:312:LEU:HD23	2.00	0.43
1:Tz:80:ASN:ND2	1:Tz:153:PRO:O	2.52	0.43
1:UA:57:PRO:HB2	1:UH:84:LEU:HD13	1.99	0.43
1:UC:31:PRO:HG3	5:XM:218:TYR:CD1	2.53	0.43
1:UG:211:LEU:HD23	1:UG:211:LEU:HA	1.90	0.43
1:UH:66:THR:HG22	4:WI:52:ARG:HB3	1.99	0.43
1:UU:296:TYR:HE2	1:UW:67:ILE:HG13	1.83	0.43
1:Ui:175:ASP:HA	1:Ui:212:LYS:NZ	2.33	0.43
1:Uk:13:VAL:HA	1:Uk:16:ILE:HG22	2.00	0.43
2:Ux:75:LEU:HD22	2:Ux:84:LEU:HD13	1.99	0.43
2:Uy:123:LEU:HD13	2:Uy:173:VAL:HG11	2.00	0.43
2:VV:167:THR:HG22	2:VV:168:GLU:N	2.33	0.43
2:Vl:75:LEU:HD22	2:Vl:84:LEU:HD13	2.00	0.43
4:Vz:43:VAL:O	4:Vz:43:VAL:HG13	2.18	0.43
4:WL:166:LEU:HD12	4:WL:180:LYS:HE2	1.99	0.43
6:YB:172:LEU:HD21	6:YC:181:GLU:HA	1.99	0.43
6:YC:290:GLU:O	6:YC:294:LEU:HG	2.18	0.43
6:YG:320:ASN:HB3	6:YG:368:GLN:HE22	1.83	0.43
5:YL:77:LEU:O	5:YL:81:GLU:HG2	2.17	0.43
5:YP:72:ILE:O	5:YP:76:LEU:HG	2.18	0.43
5:YU:80:ALA:HA	5:YU:83:ILE:HB	2.01	0.43
5:Yc:128:ILE:HD11	5:Yc:138:SER:HB2	2.00	0.43
5:Yg:58:ARG:HA	5:Yg:61:LYS:HB3	2.00	0.43
5:Yh:55:ILE:HD11	5:Yu:98:PHE:CD1	2.53	0.43
5:Yk:79:GLU:O	5:Yk:83:ILE:HG12	2.18	0.43
5:ZD:122:VAL:HG11	5:ZD:151:LEU:HD13	2.00	0.43
5:ZN:118:ARG:O	5:ZN:122:VAL:HG23	2.18	0.43
5:ZQ:75:GLN:O	5:ZQ:79:GLU:HG2	2.18	0.43
5:ZR:122:VAL:HG11	5:ZR:151:LEU:HD13	1.99	0.43
5:ZS:75:GLN:O	5:ZS:79:GLU:HG2	2.18	0.43
5:ZY:131:ILE:HD13	5:ZY:140:ILE:HD11	2.00	0.43
5:Za:140:ILE:HG22	5:Za:140:ILE:O	2.18	0.43
5:Ze:75:GLN:O	5:Ze:79:GLU:HG2	2.17	0.43
5:Ze:140:ILE:HG22	5:Ze:140:ILE:O	2.18	0.43
5:Zj:112:ASP:OD1	5:Zj:115:GLN:NE2	2.48	0.43
5:Zl:118:ARG:O	5:Zl:122:VAL:HG23	2.18	0.43
5:Zs:113:ILE:O	5:Zs:117:GLN:HG2	2.18	0.43
5:Zt:118:ARG:O	5:Zt:122:VAL:HG23	2.18	0.43
5:Zw:72:ILE:O	5:Zw:76:LEU:HG	2.18	0.43
5:aC:62:GLU:OE1	5:ai:97:HIS:NE2	2.50	0.43
5:aF:122:VAL:HG11	5:aF:151:LEU:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:aK:79:GLU:O	5:aK:83:ILE:HG12	2.18	0.43
5:aM:94:LEU:HD11	5:aM:121:LEU:HG	2.00	0.43
5:aN:112:ASP:OD1	5:aN:115:GLN:NE2	2.49	0.43
5:aS:72:ILE:O	5:aS:76:LEU:HG	2.18	0.43
5:aX:118:ARG:O	5:aX:122:VAL:HG23	2.18	0.43
5:aa:79:GLU:O	5:aa:83:ILE:HG12	2.18	0.43
5:ac:75:GLN:O	5:ac:79:GLU:HG2	2.18	0.43
5:ae:72:ILE:O	5:ae:76:LEU:HG	2.18	0.43
5:ak:75:GLN:O	5:ak:79:GLU:HG2	2.18	0.43
5:al:118:ARG:O	5:al:122:VAL:HG23	2.18	0.43
5:ao:75:GLN:O	5:ao:79:GLU:HG2	2.17	0.43
5:bD:118:ARG:O	5:bD:122:VAL:HG23	2.18	0.43
5:bG:75:GLN:O	5:bG:79:GLU:HG2	2.18	0.43
5:bS:75:GLN:O	5:bS:79:GLU:HG2	2.18	0.43
5:bg:75:GLN:O	5:bg:79:GLU:HG2	2.18	0.43
5:bh:143:ILE:HD12	5:bh:143:ILE:HA	1.92	0.43
5:bm:72:ILE:O	5:bm:76:LEU:HG	2.18	0.43
5:bn:118:ARG:O	5:bn:122:VAL:HG23	2.18	0.43
5:cW:75:GLN:O	5:cW:79:GLU:HG2	2.18	0.43
5:ca:72:ILE:O	5:ca:76:LEU:HG	2.18	0.43
5:cg:72:ILE:O	5:cg:76:LEU:HG	2.18	0.43
5:ch:118:ARG:O	5:ch:122:VAL:HG23	2.18	0.43
5:ck:55:ILE:HD13	5:dQ:116:ALA:HB1	1.99	0.43
5:co:57:GLU:HA	5:co:60:THR:HG22	2.01	0.43
5:cq:79:GLU:O	5:cq:83:ILE:HG12	2.17	0.43
5:ct:118:ARG:O	5:ct:122:VAL:HG23	2.18	0.43
5:cu:86:ILE:HD11	5:cu:118:ARG:HE	1.83	0.43
5:dC:79:GLU:O	5:dC:83:ILE:HG12	2.18	0.43
5:dE:79:GLU:O	5:dE:83:ILE:HG12	2.18	0.43
5:dG:75:GLN:O	5:dG:79:GLU:HG2	2.18	0.43
5:dI:99:ASN:HB3	5:dI:102:VAL:HG22	2.00	0.43
5:dJ:122:VAL:HG11	5:dJ:151:LEU:HD13	1.99	0.43
5:dQ:113:ILE:O	5:dQ:117:GLN:HG2	2.18	0.43
5:dV:112:ASP:OD1	5:dV:115:GLN:NE2	2.49	0.43
5:dX:118:ARG:O	5:dX:122:VAL:HG23	2.18	0.43
5:dY:79:GLU:O	5:dY:83:ILE:HG12	2.18	0.43
5:db:118:ARG:O	5:db:122:VAL:HG23	2.18	0.43
5:df:122:VAL:HG11	5:df:151:LEU:HD13	1.99	0.43
5:dk:75:GLN:O	5:dk:79:GLU:HG2	2.18	0.43
5:dw:72:ILE:O	5:dw:76:LEU:HG	2.18	0.43
5:dz:146:GLU:CD	5:eg:58:ARG:HH21	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eE:113:ILE:O	5:eE:117:GLN:HG2	2.18	0.43
5:eG:56:ASN:HD22	5:eo:145:GLY:HA3	1.83	0.43
5:eG:113:ILE:O	5:eG:117:GLN:HG2	2.18	0.43
5:eU:116:ALA:HB1	5:fA:55:ILE:HD13	2.00	0.43
5:eY:143:ILE:HG22	5:eY:143:ILE:O	2.18	0.43
5:ec:143:ILE:HG22	5:ec:143:ILE:O	2.17	0.43
5:ed:76:LEU:HD23	5:ed:79:GLU:OE2	2.18	0.43
5:ee:94:LEU:HD11	5:ee:121:LEU:HG	1.99	0.43
5:ei:72:ILE:O	5:ei:76:LEU:HG	2.18	0.43
5:eo:143:ILE:HG22	5:eo:143:ILE:O	2.17	0.43
5:es:79:GLU:O	5:es:83:ILE:HG12	2.17	0.43
5:fC:72:ILE:O	5:fC:76:LEU:HG	2.18	0.43
5:fF:76:LEU:HD23	5:fF:79:GLU:OE2	2.18	0.43
5:fF:118:ARG:O	5:fF:122:VAL:HG23	2.18	0.43
5:fH:76:LEU:HD23	5:fH:79:GLU:OE2	2.18	0.43
5:fI:72:ILE:O	5:fI:76:LEU:HG	2.18	0.43
5:fJ:76:LEU:HD23	5:fJ:79:GLU:OE2	2.18	0.43
5:fP:143:ILE:HD12	5:fP:143:ILE:HA	1.92	0.43
5:fR:118:ARG:O	5:fR:122:VAL:HG23	2.18	0.43
5:fW:72:ILE:O	5:fW:76:LEU:HG	2.18	0.43
5:fb:118:ARG:O	5:fb:122:VAL:HG23	2.18	0.43
5:fc:72:ILE:O	5:fc:76:LEU:HG	2.18	0.43
5:fd:122:VAL:HG11	5:fd:151:LEU:HD13	1.99	0.43
5:fp:122:VAL:HG11	5:fp:151:LEU:HD13	1.99	0.43
5:fw:79:GLU:O	5:fw:83:ILE:HG12	2.17	0.43
5:fz:112:ASP:OD1	5:fz:115:GLN:NE2	2.48	0.43
5:fz:118:ARG:O	5:fz:122:VAL:HG23	2.18	0.43
5:gB:76:LEU:HD23	5:gB:79:GLU:OE2	2.18	0.43
5:gB:118:ARG:O	5:gB:122:VAL:HG23	2.18	0.43
1:AB:152:LEU:HD21	2:Bf:105:SER:HA	2.00	0.43
1:AC:165:ILE:HD13	1:AC:191:LEU:HD23	1.99	0.43
1:AD:289:SER:HB2	1:AE:85:GLN:HE22	1.82	0.43
1:AJ:17:ILE:HG21	5:DT:189:LEU:HD12	2.01	0.43
1:AL:143:LYS:HA	4:Cm:39:ARG:HE	1.82	0.43
1:AQ:87:LYS:NZ	2:Br:53:THR:O	2.39	0.43
1:AU:282:ASN:OD1	1:AU:283:GLU:N	2.50	0.43
1:Ac:169:VAL:HB	1:Ac:316:ILE:HA	1.98	0.43
1:Ak:257:HIS:HB2	1:Ak:316:ILE:HB	2.00	0.43
1:Ao:41:MET:HE3	1:Ao:83:LYS:HB3	2.00	0.43
1:Av:54:ASN:OD1	2:CF:47:ASN:ND2	2.40	0.43
1:BG:59:THR:HG21	2:CT:107:MET:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:109:ASN:O	2:CX:24:ASN:ND2	2.51	0.43
1:BL:259:ILE:HB	1:BL:314:VAL:HB	2.00	0.43
1:BP:308:ARG:O	2:CX:34:ASN:ND2	2.44	0.43
1:BQ:258:LYS:HZ2	1:BQ:315:ASN:HB2	1.83	0.43
1:BR:260:LEU:HD23	1:BR:260:LEU:HA	1.90	0.43
1:BW:78:ARG:O	1:BW:154:ASN:ND2	2.33	0.43
1:Bd:257:HIS:CE1	1:Bd:318:GLN:HG3	2.54	0.43
2:Bi:165:LYS:HE3	2:Bi:168:GLU:HA	1.98	0.43
2:CW:167:THR:HG22	2:CW:168:GLU:H	1.83	0.43
2:Cf:75:LEU:HD22	2:Cf:84:LEU:HD13	1.99	0.43
4:DG:43:VAL:HG13	4:DG:43:VAL:O	2.18	0.43
1:Es:41:MET:HE3	1:Es:83:LYS:H	1.82	0.43
1:FC:66:THR:HG22	2:Gf:52:CYS:HB3	2.00	0.43
1:FL:239:LYS:HA	1:FL:242:ASN:OD1	2.18	0.43
1:FR:80:ASN:HB2	1:FR:155:MET:HG3	1.99	0.43
1:FZ:256:LYS:O	1:FZ:258:LYS:HG2	2.18	0.43
1:Fh:16:ILE:HD11	1:Fh:120:LYS:HE3	2.00	0.43
1:Fk:54:ASN:OD1	2:Gu:47:ASN:ND2	2.40	0.43
1:Fm:257:HIS:CE1	1:Fm:318:GLN:HG3	2.53	0.43
1:Fo:89:ARG:HH21	1:Fo:112:LEU:HD21	1.83	0.43
1:Fq:288:ASP:OD1	1:Fq:289:SER:N	2.46	0.43
1:Fw:109:ASN:O	2:HM:24:ASN:ND2	2.51	0.43
1:Fw:173:ASP:HB3	1:Fw:179:LYS:HG3	1.99	0.43
1:Fx:277:MET:HA	1:Fx:300:VAL:HB	2.00	0.43
1:Fy:79:LEU:HD11	1:Fy:305:LEU:HB2	1.99	0.43
1:GE:89:ARG:HH21	1:GE:112:LEU:HD21	1.83	0.43
1:GH:152:LEU:HD21	2:HQ:105:SER:HA	1.99	0.43
1:GQ:307:THR:HB	1:GQ:310:THR:HG21	1.99	0.43
2:Gs:160:LEU:HD11	4:Hk:75:ARG:HH12	1.83	0.43
2:Gv:140:ASN:HD21	2:Gv:144:GLU:HB2	1.83	0.43
4:Ha:133:SER:HB3	4:Ha:177:TYR:CE1	2.53	0.43
1:Jl:49:TRP:CE3	1:Jl:74:SER:HB3	2.53	0.43
1:Jq:80:ASN:ND2	1:Jq:153:PRO:O	2.50	0.43
1:KB:257:HIS:CE1	1:KB:318:GLN:HG3	2.53	0.43
1:KC:259:ILE:HB	1:KC:314:VAL:HB	1.99	0.43
1:KL:65:ASN:ND2	2:Lj:57:ASP:O	2.51	0.43
1:KM:196:GLU:HB3	1:KM:265:ASN:HD22	1.81	0.43
1:KO:86:TYR:OH	1:KZ:55:ALA:O	2.30	0.43
1:KX:113:LEU:HD23	1:KX:117:GLN:HB2	2.00	0.43
1:KY:57:PRO:HB2	1:PQ:84:LEU:HD13	2.00	0.43
1:Kr:132:HIS:HA	1:Kr:254:LEU:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kt:89:ARG:HH21	1:Kt:112:LEU:HD21	1.83	0.43
1:Kv:13:VAL:HA	1:Kv:16:ILE:HG22	2.00	0.43
1:LH:16:ILE:HD12	1:LH:116:ALA:HB1	2.00	0.43
2:LV:137:LEU:HD11	2:LV:159:ALA:HB2	2.00	0.43
2:MB:107:MET:HE3	1:Pf:59:THR:HG21	2.00	0.43
2:MK:137:LEU:HD11	2:MK:159:ALA:HB2	2.00	0.43
4:Mk:43:VAL:O	4:Mk:43:VAL:HG13	2.18	0.43
4:Ml:107:ASP:OD1	4:Ml:108:ILE:N	2.52	0.43
5:OL:211:LYS:HG3	5:OL:214:ARG:HH21	1.83	0.43
1:OX:66:THR:HG22	2:QE:52:CYS:HB3	2.00	0.43
1:OY:239:LYS:NZ	1:OY:245:GLU:O	2.50	0.43
1:Ot:85:GLN:HB3	1:Pr:60:ILE:HD11	2.00	0.43
1:Ou:57:PRO:HD2	1:Tk:149:LYS:HD2	2.00	0.43
1:PD:257:HIS:HB2	1:PD:316:ILE:HB	2.00	0.43
1:PN:43:TYR:HB2	1:PN:78:ARG:HG3	2.01	0.43
1:PV:257:HIS:HB2	1:PV:316:ILE:HB	2.00	0.43
1:Pf:201:MET:HE3	1:Pf:201:MET:HB3	1.88	0.43
1:Pf:296:TYR:HE2	1:Ph:67:ILE:HG13	1.83	0.43
1:Pk:57:PRO:HG2	1:Pn:84:LEU:HD13	2.00	0.43
1:Pt:175:ASP:HA	1:Pt:212:LYS:NZ	2.33	0.43
1:Pu:31:PRO:HG3	5:TE:218:TYR:CD1	2.53	0.43
2:Qc:23:LYS:HA	2:Qc:45:PHE:HD2	1.83	0.43
4:RL:43:VAL:O	4:RL:43:VAL:HG13	2.18	0.43
4:RN:165:ALA:HA	4:RN:181:VAL:HG12	2.00	0.43
4:RS:78:GLN:HB2	4:RS:88:HIS:CE1	2.53	0.43
4:Ra:43:VAL:O	4:Ra:43:VAL:HG13	2.18	0.43
1:TM:87:LYS:NZ	4:Vs:53:THR:O	2.39	0.43
1:TQ:142:GLN:HA	2:Ut:40:ASP:OD1	2.18	0.43
1:TV:133:PHE:O	1:TV:137:GLY:N	2.40	0.43
1:TY:162:PRO:HG2	2:Ur:31:LEU:HD11	2.00	0.43
1:Tb:16:ILE:HD11	1:Tb:120:LYS:HE3	2.00	0.43
1:Tl:239:LYS:HA	1:Tl:242:ASN:OD1	2.18	0.43
1:Tu:150:ARG:NH2	2:VP:106:GLY:O	2.51	0.43
1:UA:194:GLY:HA3	2:Va:36:ILE:HG21	1.98	0.43
1:UB:26:TYR:O	5:XL:218:TYR:OH	2.29	0.43
1:UD:87:LYS:NZ	4:WH:53:THR:O	2.38	0.43
1:UI:175:ASP:HA	1:UI:212:LYS:NZ	2.33	0.43
1:UP:109:ASN:O	2:Vf:24:ASN:ND2	2.51	0.43
1:Uj:31:PRO:HG3	5:Xt:218:TYR:CD1	2.53	0.43
1:Uk:157:GLY:N	1:Uk:160:ASN:OD1	2.46	0.43
1:Ul:257:HIS:CE1	1:Ul:318:GLN:HG3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Um:45:LYS:HA	1:Um:77:VAL:O	2.18	0.43
2:VR:23:LYS:HA	2:VR:45:PHE:HD2	1.83	0.43
2:Ve:167:THR:HG22	2:Ve:168:GLU:H	1.83	0.43
2:Vn:75:LEU:HD22	2:Vn:84:LEU:HD13	1.99	0.43
4:Vx:77:ILE:HG12	4:Vx:91:PRO:HB3	1.99	0.43
4:WB:93:VAL:HG21	4:WB:117:ILE:HD11	2.00	0.43
4:WH:144:ASN:OD1	4:WH:148:ALA:N	2.41	0.43
6:Xz:320:ASN:HB3	6:Xz:368:GLN:HE22	1.83	0.43
6:YE:13:ILE:HG21	6:YE:167:LEU:HB3	2.00	0.43
6:YF:305:GLU:OE1	6:YF:308:THR:N	2.42	0.43
5:YJ:119:ARG:HG2	5:YJ:140:ILE:HG22	2.00	0.43
5:YK:66:VAL:O	5:YK:70:GLU:HG2	2.17	0.43
5:YQ:135:ALA:C	5:YQ:137:VAL:H	2.25	0.43
5:YZ:55:ILE:HG13	5:YZ:56:ASN:H	1.83	0.43
5:Yh:119:ARG:HG2	5:Yh:140:ILE:HG22	2.00	0.43
5:Yi:122:VAL:HG21	5:Yi:148:LEU:HD12	2.00	0.43
5:Yk:55:ILE:O	5:Yk:59:ILE:HG12	2.18	0.43
5:Yp:83:ILE:HG12	5:Yp:114:MET:HG3	1.99	0.43
5:ZG:79:GLU:O	5:ZG:83:ILE:HG12	2.18	0.43
5:ZH:84:ASN:HD21	5:ZI:84:ASN:N	2.15	0.43
5:ZO:154:LEU:HD13	5:ZP:134:ILE:HD11	2.00	0.43
5:ZT:118:ARG:O	5:ZT:122:VAL:HG23	2.18	0.43
5:ZW:72:ILE:O	5:ZW:76:LEU:HG	2.18	0.43
5:ZY:118:ARG:HB3	5:ZY:152:VAL:HG11	2.00	0.43
5:Zc:95:SER:HB3	5:Zc:98:PHE:HE1	1.82	0.43
5:Zr:118:ARG:O	5:Zr:122:VAL:HG23	2.18	0.43
5:Zz:118:ARG:O	5:Zz:122:VAL:HG23	2.18	0.43
5:aA:75:GLN:O	5:aA:79:GLU:HG2	2.18	0.43
5:aB:118:ARG:O	5:aB:122:VAL:HG23	2.18	0.43
5:aG:79:GLU:O	5:aG:83:ILE:HG12	2.18	0.43
5:aH:122:VAL:HG11	5:aH:151:LEU:HD13	1.99	0.43
5:aN:118:ARG:O	5:aN:122:VAL:HG23	2.18	0.43
5:aO:57:GLU:HA	5:aO:60:THR:HG22	2.00	0.43
5:aQ:113:ILE:O	5:aQ:117:GLN:HG2	2.17	0.43
5:aS:94:LEU:HD11	5:aS:121:LEU:HG	2.00	0.43
5:aU:99:ASN:HB3	5:aU:102:VAL:HG22	2.00	0.43
5:aW:99:ASN:HB3	5:aW:102:VAL:HG22	2.00	0.43
5:aY:75:GLN:O	5:aY:79:GLU:HG2	2.17	0.43
5:aa:75:GLN:O	5:aa:79:GLU:HG2	2.17	0.43
5:ab:118:ARG:O	5:ab:122:VAL:HG23	2.18	0.43
5:ad:122:VAL:HG11	5:ad:151:LEU:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:al:122:VAL:HG11	5:al:151:LEU:HD13	1.99	0.43
5:am:75:GLN:O	5:am:79:GLU:HG2	2.18	0.43
5:an:112:ASP:OD1	5:an:115:GLN:NE2	2.49	0.43
5:at:112:ASP:OD1	5:at:115:GLN:NE2	2.48	0.43
5:at:118:ARG:O	5:at:122:VAL:HG23	2.18	0.43
5:aw:72:ILE:O	5:aw:76:LEU:HG	2.18	0.43
5:aw:86:ILE:HD11	5:aw:118:ARG:HE	1.83	0.43
5:bA:79:GLU:O	5:bA:83:ILE:HG12	2.18	0.43
5:bI:57:GLU:HA	5:bI:60:THR:HG22	1.99	0.43
5:bK:72:ILE:O	5:bK:76:LEU:HG	2.19	0.43
5:bM:72:ILE:O	5:bM:76:LEU:HG	2.18	0.43
5:bV:118:ARG:O	5:bV:122:VAL:HG23	2.18	0.43
5:bZ:118:ARG:O	5:bZ:122:VAL:HG23	2.18	0.43
5:ba:75:GLN:O	5:ba:79:GLU:HG2	2.18	0.43
5:bd:118:ARG:O	5:bd:122:VAL:HG23	2.18	0.43
5:be:75:GLN:O	5:be:79:GLU:HG2	2.18	0.43
5:bg:72:ILE:O	5:bg:76:LEU:HG	2.18	0.43
5:bg:99:ASN:O	5:bg:103:LEU:HG	2.18	0.43
5:bk:72:ILE:O	5:bk:76:LEU:HG	2.18	0.43
5:bk:79:GLU:O	5:bk:83:ILE:HG12	2.17	0.43
5:br:122:VAL:HG11	5:br:151:LEU:HD13	2.00	0.43
5:bt:118:ARG:O	5:bt:122:VAL:HG23	2.18	0.43
5:bu:72:ILE:O	5:bu:76:LEU:HG	2.18	0.43
5:cC:57:GLU:HA	5:cC:60:THR:HG22	2.00	0.43
5:cH:118:ARG:O	5:cH:122:VAL:HG23	2.18	0.43
5:cM:113:ILE:O	5:cM:117:GLN:HG2	2.18	0.43
5:cT:122:VAL:HG11	5:cT:151:LEU:HD13	1.99	0.43
5:cU:72:ILE:O	5:cU:76:LEU:HG	2.19	0.43
5:cW:153:SER:HB2	5:cX:133:ALA:HB1	2.00	0.43
5:ca:75:GLN:O	5:ca:79:GLU:HG2	2.18	0.43
5:cd:118:ARG:O	5:cd:122:VAL:HG23	2.18	0.43
5:cf:118:ARG:O	5:cf:122:VAL:HG23	2.18	0.43
5:cl:118:ARG:O	5:cl:122:VAL:HG23	2.18	0.43
5:cr:122:VAL:HG11	5:cr:151:LEU:HD13	1.99	0.43
5:cw:72:ILE:O	5:cw:76:LEU:HG	2.18	0.43
5:dG:72:ILE:O	5:dG:76:LEU:HG	2.18	0.43
5:dH:122:VAL:HG11	5:dH:151:LEU:HD13	1.99	0.43
5:dK:72:ILE:O	5:dK:76:LEU:HG	2.18	0.43
5:dO:79:GLU:O	5:dO:83:ILE:HG12	2.18	0.43
5:dU:79:GLU:O	5:dU:83:ILE:HG12	2.17	0.43
5:dU:86:ILE:HD11	5:dU:118:ARG:HE	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dV:118:ARG:O	5:dV:122:VAL:HG23	2.18	0.43
5:dZ:118:ARG:O	5:dZ:122:VAL:HG23	2.18	0.43
5:da:72:ILE:O	5:da:76:LEU:HG	2.18	0.43
5:dd:118:ARG:O	5:dd:122:VAL:HG23	2.18	0.43
5:di:143:ILE:HG22	5:di:143:ILE:O	2.18	0.43
5:di:143:ILE:HG23	5:di:143:ILE:HD12	1.81	0.43
5:dk:72:ILE:O	5:dk:76:LEU:HG	2.18	0.43
5:dq:79:GLU:O	5:dq:83:ILE:HG12	2.18	0.43
5:dq:113:ILE:O	5:dq:117:GLN:HG2	2.18	0.43
5:dw:75:GLN:O	5:dw:79:GLU:HG2	2.18	0.43
5:dx:118:ARG:O	5:dx:122:VAL:HG23	2.18	0.43
5:dy:99:ASN:HB3	5:dy:102:VAL:HG22	2.00	0.43
5:eA:79:GLU:O	5:eA:83:ILE:HG12	2.18	0.43
5:eC:111:LYS:HZ2	5:eF:74:LYS:HE3	1.83	0.43
5:eE:63:LEU:HD11	5:en:136:LYS:HD2	1.99	0.43
5:eF:143:ILE:HD12	5:eF:143:ILE:HA	1.92	0.43
5:eG:79:GLU:O	5:eG:83:ILE:HG12	2.18	0.43
5:eI:113:ILE:O	5:eI:117:GLN:HG2	2.18	0.43
5:eQ:72:ILE:O	5:eQ:76:LEU:HG	2.18	0.43
5:eZ:76:LEU:HD23	5:eZ:79:GLU:OE2	2.18	0.43
5:em:94:LEU:HD11	5:em:121:LEU:HG	1.98	0.43
5:ep:143:ILE:HD12	5:ep:143:ILE:HA	1.92	0.43
5:ex:112:ASP:OD1	5:ex:115:GLN:NE2	2.49	0.43
5:ey:72:ILE:O	5:ey:76:LEU:HG	2.18	0.43
5:fD:118:ARG:O	5:fD:122:VAL:HG23	2.18	0.43
5:fN:76:LEU:HD23	5:fN:79:GLU:OE2	2.18	0.43
5:fP:122:VAL:HG11	5:fP:151:LEU:HD13	1.99	0.43
5:fS:72:ILE:O	5:fS:76:LEU:HG	2.18	0.43
5:fe:79:GLU:O	5:fe:83:ILE:HG12	2.17	0.43
5:fg:79:GLU:O	5:fg:83:ILE:HG12	2.17	0.43
5:fi:79:GLU:O	5:fi:83:ILE:HG12	2.17	0.43
5:fs:72:ILE:O	5:fs:76:LEU:HG	2.18	0.43
5:gC:72:ILE:O	5:gC:76:LEU:HG	2.19	0.43
1:AB:59:THR:O	2:Up:61:ASN:ND2	2.51	0.43
1:AK:49:TRP:CZ3	1:AK:74:SER:HB3	2.53	0.43
1:AK:164:GLN:OE1	1:AK:311:ILE:N	2.51	0.43
1:AO:169:VAL:HG22	1:AO:183:LYS:HG3	1.99	0.43
1:AR:85:GLN:NE2	1:AR:298:ASP:OD1	2.48	0.43
1:AT:16:ILE:HD11	1:AT:120:LYS:HE3	2.00	0.43
1:AV:43:TYR:CE1	1:AV:45:LYS:HE3	2.53	0.43
1:AW:26:TYR:O	5:Dg:218:TYR:OH	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:87:LYS:NZ	4:Cq:53:THR:O	2.43	0.43
1:AX:307:THR:HG22	2:Bw:32:LEU:HB2	2.00	0.43
1:AY:257:HIS:HB3	1:AY:316:ILE:HB	1.99	0.43
1:Ac:149:LYS:HD2	1:Tj:57:PRO:HD2	2.00	0.43
1:Ap:89:ARG:HH21	1:Ap:112:LEU:HD13	1.83	0.43
1:Aw:49:TRP:CE3	1:UB:113:LEU:HD11	2.54	0.43
1:Ay:49:TRP:CZ3	1:Ay:74:SER:HB3	2.54	0.43
1:BA:175:ASP:HA	1:BA:212:LYS:NZ	2.33	0.43
1:BC:80:ASN:C	1:BC:81:TYR:HD1	2.26	0.43
1:BI:165:ILE:HD13	1:BI:191:LEU:HD23	2.01	0.43
1:BW:259:ILE:HB	1:BW:314:VAL:HB	1.99	0.43
1:Bb:26:TYR:O	5:El:218:TYR:OH	2.33	0.43
1:Bc:45:LYS:NZ	4:Cs:28:ASP:OD2	2.45	0.43
2:Bh:61:ASN:ND2	1:Eq:59:THR:O	2.51	0.43
2:Bv:116:ASN:HB3	4:Cq:58:LYS:HE3	2.00	0.43
2:By:133:PRO:HG3	2:By:161:SER:HA	1.99	0.43
2:CM:77:PHE:CE1	2:CM:84:LEU:HD13	2.54	0.43
2:CM:166:LEU:HB2	2:CM:170:LEU:HD23	2.00	0.43
2:CT:69:TYR:HE1	2:CT:100:ASP:HA	1.84	0.43
4:Cz:78:GLN:NE2	4:Cz:89:TYR:HB2	2.32	0.43
4:DF:28:ASP:OD2	1:UQ:45:LYS:NZ	2.44	0.43
4:DH:43:VAL:O	4:DH:43:VAL:HG13	2.18	0.43
1:Ew:49:TRP:CE3	1:Ew:74:SER:HB3	2.53	0.43
1:Ez:196:GLU:HB3	1:Ez:265:ASN:HD22	1.83	0.43
1:Ez:261:ILE:HD12	1:Ez:312:LEU:HD23	2.00	0.43
1:FM:86:TYR:OH	1:Jy:55:ALA:O	2.29	0.43
1:FN:85:GLN:HE22	1:GS:289:SER:HB2	1.82	0.43
1:FN:259:ILE:HB	1:FN:314:VAL:HB	1.99	0.43
1:FP:85:GLN:HB3	1:GN:60:ILE:HD11	2.00	0.43
1:FP:196:GLU:OE1	1:FP:265:ASN:ND2	2.51	0.43
1:FX:26:TYR:O	5:Ih:218:TYR:OH	2.28	0.43
1:Fd:261:ILE:HD12	1:Fd:312:LEU:HD23	2.00	0.43
1:Fq:49:TRP:CZ3	1:Fq:74:SER:HB3	2.52	0.43
1:Fx:260:LEU:HD23	1:Fx:260:LEU:HA	1.90	0.43
1:GD:26:TYR:O	5:JN:218:TYR:OH	2.30	0.43
1:GS:257:HIS:CE1	1:GS:318:GLN:HG3	2.53	0.43
2:Gc:167:THR:HB	2:Gc:170:LEU:HB3	2.00	0.43
2:Gf:23:LYS:HB2	2:Gf:23:LYS:HE3	1.80	0.43
2:HE:22:MET:HA	2:HE:67:TYR:CZ	2.53	0.43
4:Hd:105:CYS:SG	4:Hd:115:ALA:HB1	2.58	0.43
4:Hr:43:VAL:O	4:Hr:43:VAL:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Js:306:ALA:O	4:MT:31:LEU:HB2	2.19	0.43
1:KC:16:ILE:HD11	1:KC:120:LYS:HE3	1.99	0.43
1:KD:80:ASN:ND2	1:KD:154:ASN:HB2	2.33	0.43
1:KM:178:ASP:OD1	1:KM:179:LYS:N	2.50	0.43
1:KR:107:ASP:OD2	1:KR:110:ASN:ND2	2.51	0.43
1:KT:142:GLN:NE2	1:KT:147:ASN:OD1	2.50	0.43
1:Kh:129:LEU:HD12	4:Mg:38:PHE:HE2	1.84	0.43
1:Kl:173:ASP:HB3	1:Kl:179:LYS:HG3	1.99	0.43
1:Ks:109:ASN:O	2:Lt:24:ASN:ND2	2.49	0.43
1:LI:24:ILE:HG12	1:LI:131:ASN:ND2	2.33	0.43
2:LU:62:TYR:HE1	4:MS:52:ARG:HH12	1.65	0.43
2:Lu:125:LYS:HD2	2:Lu:169:ASP:HA	1.99	0.43
2:MB:165:LYS:HE3	2:MB:168:GLU:HA	2.00	0.43
2:ML:114:THR:O	2:MM:114:THR:HB	2.18	0.43
4:MS:162:ASN:HB2	4:MS:184:PHE:O	2.19	0.43
4:MT:142:ILE:HD11	4:MT:152:VAL:HG22	1.99	0.43
4:Mc:34:ASN:ND2	1:PB:192:GLU:OE1	2.50	0.43
5:OS:189:LEU:HD11	5:OS:206:ILE:HG12	2.00	0.43
1:OT:39:LEU:O	1:OT:274:SER:OG	2.25	0.43
1:OZ:196:GLU:HB3	1:OZ:265:ASN:ND2	2.32	0.43
1:Oh:54:ASN:ND2	1:Oh:69:THR:O	2.48	0.43
1:Oo:8:TYR:CD2	1:Oo:93:GLN:HG3	2.53	0.43
1:Or:257:HIS:HB3	1:Or:316:ILE:HB	1.99	0.43
1:PF:85:GLN:HE22	1:PH:289:SER:HB2	1.83	0.43
1:PJ:158:LEU:HB3	1:PJ:260:LEU:HD21	2.00	0.43
1:Pk:21:LYS:NZ	1:UJ:195:ASP:OD2	2.49	0.43
1:Pl:113:LEU:HD11	1:Po:49:TRP:CE3	2.53	0.43
1:Px:16:ILE:HD11	1:Px:120:LYS:HE3	2.00	0.43
2:QA:120:TYR:CE1	2:QA:174:LEU:HB2	2.53	0.43
2:QD:23:LYS:NZ	2:QD:100:ASP:OD1	2.45	0.43
2:QG:140:ASN:ND2	2:QG:144:GLU:HB2	2.34	0.43
2:QN:133:PRO:HG3	2:QN:161:SER:HA	2.00	0.43
2:Qg:167:THR:HG22	2:Qg:168:GLU:N	2.34	0.43
2:RA:114:THR:O	2:RB:114:THR:HB	2.18	0.43
4:RJ:10:GLU:O	4:RJ:14:LYS:HG2	2.18	0.43
1:TN:196:GLU:HB3	1:TN:265:ASN:HD22	1.83	0.43
1:TN:239:LYS:NZ	1:TN:245:GLU:O	2.50	0.43
1:TO:196:GLU:HB3	1:TO:265:ASN:ND2	2.32	0.43
1:TP:49:TRP:CE3	1:TP:74:SER:HB3	2.53	0.43
1:TQ:33:GLN:NE2	1:TQ:269:ILE:O	2.48	0.43
1:TU:152:LEU:HD11	2:Uw:105:SER:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TV:66:THR:HG22	2:Uy:52:CYS:HB3	2.00	0.43
1:Td:149:LYS:HZ1	1:Tg:59:THR:HG1	1.62	0.43
1:Ti:169:VAL:HB	1:Ti:316:ILE:HA	2.00	0.43
1:Tt:260:LEU:HD23	1:Tt:260:LEU:HA	1.92	0.43
1:Tx:16:ILE:HD11	1:Tx:120:LYS:HE3	2.00	0.43
1:UC:43:TYR:HB2	1:UC:78:ARG:HG3	2.00	0.43
1:UE:181:PHE:CD1	1:UE:184:ILE:HD12	2.54	0.43
1:UH:31:PRO:HG3	5:XR:218:TYR:CD1	2.53	0.43
1:UH:152:LEU:HD21	4:WJ:112:SER:HA	2.00	0.43
2:Us:137:LEU:HD11	2:Us:159:ALA:HB2	1.98	0.43
2:Uz:137:LEU:HD11	2:Uz:159:ALA:HB2	2.00	0.43
2:VK:155:VAL:HG12	2:VK:178:PHE:HZ	1.82	0.43
4:Vz:149:LEU:HD13	4:Vz:181:VAL:HG21	2.00	0.43
6:Xy:13:ILE:HG21	6:Xy:167:LEU:HB3	2.00	0.43
6:YB:13:ILE:HG21	6:YB:167:LEU:HB3	2.01	0.43
5:YM:76:LEU:O	5:YM:79:GLU:HG2	2.19	0.43
5:YY:118:ARG:O	5:YY:122:VAL:HG23	2.18	0.43
5:Yf:75:GLN:O	5:Yf:79:GLU:HG2	2.19	0.43
5:Yh:79:GLU:O	5:Yh:83:ILE:HG12	2.18	0.43
5:Yu:143:ILE:HG22	5:Yu:143:ILE:O	2.19	0.43
5:ZK:73:GLU:O	5:ZK:77:LEU:HG	2.17	0.43
5:ZO:143:ILE:HG22	5:ZO:143:ILE:O	2.18	0.43
5:ZQ:99:ASN:O	5:ZQ:103:LEU:HG	2.17	0.43
5:ZU:99:ASN:O	5:ZU:103:LEU:HG	2.18	0.43
5:Zs:72:ILE:O	5:Zs:76:LEU:HG	2.18	0.43
5:Zx:118:ARG:O	5:Zx:122:VAL:HG23	2.18	0.43
5:aD:118:ARG:O	5:aD:122:VAL:HG23	2.18	0.43
5:aF:118:ARG:O	5:aF:122:VAL:HG23	2.18	0.43
5:aG:72:ILE:O	5:aG:76:LEU:HG	2.18	0.43
5:aI:75:GLN:O	5:aI:79:GLU:HG2	2.18	0.43
5:aI:79:GLU:O	5:aI:83:ILE:HG12	2.18	0.43
5:aL:122:VAL:HG11	5:aL:151:LEU:HD13	1.99	0.43
5:aU:113:ILE:O	5:aU:117:GLN:HG2	2.18	0.43
5:aX:143:ILE:HD12	5:aX:143:ILE:HA	1.91	0.43
5:aa:99:ASN:HB3	5:aa:102:VAL:HG22	2.00	0.43
5:ab:122:VAL:HG11	5:ab:151:LEU:HD13	1.99	0.43
5:af:122:VAL:HG11	5:af:151:LEU:HD13	1.99	0.43
5:aj:118:ARG:O	5:aj:122:VAL:HG23	2.18	0.43
5:ap:122:VAL:HG11	5:ap:151:LEU:HD13	1.99	0.43
5:as:79:GLU:O	5:as:83:ILE:HG12	2.17	0.43
5:ay:99:ASN:HB3	5:ay:102:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bC:72:ILE:O	5:bC:76:LEU:HG	2.18	0.43
5:bC:75:GLN:O	5:bC:79:GLU:HG2	2.18	0.43
5:bC:79:GLU:O	5:bC:83:ILE:HG12	2.17	0.43
5:bE:72:ILE:O	5:bE:76:LEU:HG	2.18	0.43
5:bJ:118:ARG:O	5:bJ:122:VAL:HG23	2.18	0.43
5:bJ:122:VAL:HG11	5:bJ:151:LEU:HD13	1.99	0.43
5:bM:57:GLU:HA	5:bM:60:THR:HG22	2.00	0.43
5:bO:72:ILE:O	5:bO:76:LEU:HG	2.18	0.43
5:bQ:72:ILE:O	5:bQ:76:LEU:HG	2.18	0.43
5:bY:98:PHE:HB3	5:bY:117:GLN:HE22	1.83	0.43
5:bh:118:ARG:O	5:bh:122:VAL:HG23	2.18	0.43
5:bv:122:VAL:HG11	5:bv:151:LEU:HD13	1.99	0.43
5:cA:111:LYS:HZ2	5:cD:74:LYS:HE3	1.83	0.43
5:cB:122:VAL:HG11	5:cB:151:LEU:HD13	1.99	0.43
5:cE:57:GLU:HA	5:cE:60:THR:HG22	2.01	0.43
5:cI:113:ILE:O	5:cI:117:GLN:HG2	2.18	0.43
5:cb:118:ARG:O	5:cb:122:VAL:HG23	2.18	0.43
5:cl:122:VAL:HG11	5:cl:151:LEU:HD13	1.99	0.43
5:cm:75:GLN:O	5:cm:79:GLU:HG2	2.18	0.43
5:cm:86:ILE:HD11	5:cm:118:ARG:HE	1.82	0.43
5:cr:143:ILE:HD12	5:cr:143:ILE:HA	1.92	0.43
5:cu:57:GLU:HA	5:cu:60:THR:HG22	2.00	0.43
5:cv:118:ARG:O	5:cv:122:VAL:HG23	2.18	0.43
5:cz:122:VAL:HG11	5:cz:151:LEU:HD13	1.99	0.43
5:dE:75:GLN:O	5:dE:79:GLU:HG2	2.18	0.43
5:dQ:75:GLN:O	5:dQ:79:GLU:HG2	2.18	0.43
5:dT:118:ARG:O	5:dT:122:VAL:HG23	2.18	0.43
5:dY:72:ILE:O	5:dY:76:LEU:HG	2.18	0.43
5:dZ:112:ASP:OD1	5:dZ:115:GLN:NE2	2.49	0.43
5:dk:113:ILE:O	5:dk:117:GLN:HG2	2.19	0.43
5:dl:118:ARG:O	5:dl:122:VAL:HG23	2.18	0.43
5:dm:63:LEU:HD11	5:eV:136:LYS:HD2	2.01	0.43
5:dn:146:GLU:CD	5:eU:58:ARG:HH21	2.27	0.43
5:dr:136:LYS:HE3	5:dr:136:LYS:HB2	1.77	0.43
5:du:99:ASN:HB3	5:du:102:VAL:HG22	2.01	0.43
5:eA:72:ILE:O	5:eA:76:LEU:HG	2.18	0.43
5:eA:75:GLN:O	5:eA:79:GLU:HG2	2.18	0.43
5:eB:118:ARG:O	5:eB:122:VAL:HG23	2.18	0.43
5:eC:113:ILE:O	5:eC:117:GLN:HG2	2.18	0.43
5:eG:59:ILE:O	5:eG:63:LEU:HD23	2.18	0.43
5:eI:79:GLU:O	5:eI:83:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eK:72:ILE:O	5:eK:76:LEU:HG	2.19	0.43
5:eK:99:ASN:HB3	5:eK:102:VAL:HG22	2.00	0.43
5:eQ:94:LEU:HD11	5:eQ:121:LEU:HG	1.99	0.43
5:eW:72:ILE:O	5:eW:76:LEU:HG	2.18	0.43
5:eX:76:LEU:HD23	5:eX:79:GLU:OE2	2.18	0.43
5:ec:72:ILE:O	5:ec:76:LEU:HG	2.18	0.43
5:ed:112:ASP:OD1	5:ed:115:GLN:NE2	2.50	0.43
5:ef:76:LEU:HD23	5:ef:79:GLU:OE2	2.18	0.43
5:eg:72:ILE:O	5:eg:76:LEU:HG	2.18	0.43
5:eo:72:ILE:O	5:eo:76:LEU:HG	2.18	0.43
5:eq:143:ILE:HG22	5:eq:143:ILE:O	2.17	0.43
5:fH:122:VAL:HG11	5:fH:151:LEU:HD13	2.00	0.43
5:fN:118:ARG:O	5:fN:122:VAL:HG23	2.18	0.43
5:fZ:76:LEU:HD23	5:fZ:79:GLU:OE2	2.18	0.43
5:fd:118:ARG:O	5:fd:122:VAL:HG23	2.18	0.43
5:fl:122:VAL:HG11	5:fl:151:LEU:HD13	2.00	0.43
5:fo:72:ILE:O	5:fo:76:LEU:HG	2.18	0.43
5:fp:118:ARG:O	5:fp:122:VAL:HG23	2.18	0.43
5:fv:76:LEU:HD23	5:fv:79:GLU:OE2	2.18	0.43
5:gD:122:VAL:HG11	5:gD:151:LEU:HD13	1.99	0.43
1:AA:152:LEU:HD21	2:Bg:105:SER:HA	2.00	0.43
1:AK:196:GLU:HB3	1:AK:265:ASN:HD22	1.83	0.43
1:Ap:163:GLU:HB3	1:Ap:308:ARG:HG3	1.99	0.43
1:Au:43:TYR:HB2	1:Au:78:ARG:HG3	2.01	0.43
1:Az:152:LEU:HD21	4:DB:112:SER:HA	1.98	0.43
1:BG:31:PRO:HG3	5:EQ:218:TYR:CD1	2.53	0.43
1:BK:49:TRP:CH2	1:BK:74:SER:HB3	2.54	0.43
1:BL:129:LEU:HD11	1:BL:139:VAL:HG13	2.01	0.43
1:BP:211:LEU:HD23	1:BP:211:LEU:HA	1.86	0.43
1:BZ:8:TYR:CD2	1:BZ:93:GLN:HG3	2.52	0.43
1:Ba:175:ASP:HA	1:Ba:212:LYS:NZ	2.33	0.43
1:Bd:194:GLY:HA3	2:Ci:36:ILE:HG21	2.00	0.43
2:CD:34:ASN:ND2	1:Tz:308:ARG:H	2.16	0.43
2:CJ:23:LYS:HA	2:CJ:45:PHE:HD2	1.83	0.43
2:CN:69:TYR:CE2	2:CN:70:LYS:HG2	2.53	0.43
5:Eh:211:LYS:HG3	5:Eh:214:ARG:HH21	1.83	0.43
1:Ev:260:LEU:HD23	1:Ev:260:LEU:HA	1.90	0.43
1:Ey:17:ILE:HG21	5:II:189:LEU:HD12	2.00	0.43
1:FB:133:PHE:O	1:FB:137:GLY:N	2.43	0.43
1:FJ:142:GLN:HA	2:Gi:40:ASP:OD1	2.18	0.43
1:FP:152:LEU:HD21	2:Go:105:SER:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fa:218:ALA:HA	1:Fa:224:ALA:HA	2.00	0.43
1:Ff:87:LYS:NZ	4:Hn:53:THR:O	2.37	0.43
1:Ft:43:TYR:HE2	1:Ft:45:LYS:HE2	1.82	0.43
1:Fw:307:THR:O	1:Fw:310:THR:OG1	2.36	0.43
1:GG:60:ILE:HG23	1:GI:290:THR:HG22	2.01	0.43
1:GS:49:TRP:CH2	1:GS:74:SER:HB3	2.54	0.43
2:GW:120:TYR:CE1	2:GW:174:LEU:HB2	2.53	0.43
2:HF:125:LYS:HD2	2:HF:169:ASP:HA	1.99	0.43
2:HI:69:TYR:HE1	2:HI:100:ASP:HA	1.83	0.43
2:HM:107:MET:HE3	1:Kq:59:THR:HG21	2.00	0.43
2:HU:75:LEU:HD22	2:HU:84:LEU:HD13	1.99	0.43
4:Hx:43:VAL:O	4:Hx:43:VAL:HG13	2.18	0.43
1:Jh:41:MET:HE3	1:Jh:83:LYS:H	1.82	0.43
1:Jh:289:SER:HB2	1:Ji:85:GLN:HE22	1.82	0.43
1:Jt:80:ASN:HB2	1:Jt:155:MET:HG3	2.00	0.43
1:Jz:49:TRP:CH2	1:Jz:74:SER:HB3	2.54	0.43
1:KC:257:HIS:HB3	1:KC:316:ILE:HB	1.99	0.43
1:KE:169:VAL:HB	1:KE:316:ILE:HA	2.00	0.43
1:KL:49:TRP:CE3	1:KL:74:SER:HB3	2.53	0.43
1:KP:218:ALA:HA	1:KP:224:ALA:HA	2.00	0.43
1:KV:178:ASP:OD1	1:KV:179:LYS:N	2.49	0.43
1:Kc:49:TRP:CZ3	1:Kc:74:SER:HB3	2.54	0.43
1:Kd:31:PRO:HG3	5:Nn:218:TYR:CD1	2.53	0.43
1:Kh:49:TRP:CZ3	1:Kh:74:SER:HB3	2.53	0.43
1:Kz:278:LEU:HD12	5:OJ:210:TYR:CG	2.54	0.43
1:LA:25:MET:HE1	1:LA:130:ILE:HG22	2.01	0.43
1:LE:16:ILE:HD12	1:LE:116:ALA:HB1	2.01	0.43
1:LE:253:ASN:OD1	1:LE:253:ASN:N	2.52	0.43
1:LG:49:TRP:CE3	1:LG:74:SER:HB3	2.52	0.43
1:LH:257:HIS:CE1	1:LH:318:GLN:HG3	2.53	0.43
2:LP:123:LEU:HD13	2:LP:173:VAL:HG11	1.99	0.43
2:Lt:22:MET:HA	2:Lt:67:TYR:CZ	2.53	0.43
2:Lu:120:TYR:CE1	2:Lu:174:LEU:HB2	2.54	0.43
2:MA:137:LEU:HB3	2:MA:145:LEU:HD22	2.00	0.43
4:Me:43:VAL:O	4:Me:43:VAL:HG13	2.19	0.43
1:OY:196:GLU:HB3	1:OY:265:ASN:HD22	1.83	0.43
1:Ow:31:PRO:HG3	5:SG:218:TYR:CG	2.54	0.43
1:PG:49:TRP:CE3	1:PG:74:SER:HB3	2.53	0.43
1:PK:79:LEU:HD23	1:PK:79:LEU:HA	1.87	0.43
1:PX:175:ASP:HA	1:PX:212:LYS:HZ1	1.84	0.43
1:PY:65:ASN:HB2	2:Qx:59:ILE:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pj:86:TYR:OH	1:Pt:55:ALA:O	2.24	0.43
1:Pj:257:HIS:CE1	1:Pj:318:GLN:HG3	2.54	0.43
1:Px:142:GLN:O	4:RL:39:ARG:HD2	2.18	0.43
2:QK:56:LYS:HD2	4:RH:56:PHE:HD1	1.83	0.43
2:Qg:69:TYR:CE2	2:Qg:70:LYS:HG2	2.53	0.43
2:Qv:156:ASN:HB3	2:Qv:178:PHE:CZ	2.54	0.43
3:RC:104:LYS:H	3:RC:162:ASN:ND2	2.15	0.43
4:RH:162:ASN:HB2	4:RH:184:PHE:O	2.18	0.43
4:RW:166:LEU:HD12	4:RW:180:LYS:HE2	1.99	0.43
5:Sl:211:LYS:HG3	5:Sl:214:ARG:HH21	1.83	0.43
1:TJ:87:LYS:NZ	2:Up:53:THR:O	2.41	0.43
1:TL:289:SER:HB2	1:TM:85:GLN:HE22	1.82	0.43
1:TN:278:LEU:HD23	1:TN:278:LEU:HA	1.83	0.43
1:TX:80:ASN:ND2	1:TX:153:PRO:O	2.52	0.43
1:Te:49:TRP:CE3	1:Te:74:SER:HB3	2.54	0.43
1:Tf:307:THR:HG22	2:VE:32:LEU:HB2	2.00	0.43
1:Tr:165:ILE:H	1:Tr:165:ILE:HD12	1.82	0.43
1:Tv:107:ASP:OD2	1:Tv:110:ASN:ND2	2.51	0.43
1:UC:28:TRP:CZ3	1:UC:135:LEU:HB2	2.53	0.43
1:UT:129:LEU:HD11	1:UT:139:VAL:HG13	2.01	0.43
1:Ul:16:ILE:HD12	1:Ul:116:ALA:HB1	2.00	0.43
2:Uz:56:LYS:HD2	4:Vw:56:PHE:HD1	1.83	0.43
2:VF:165:LYS:HB2	2:VF:171:PHE:CE2	2.53	0.43
4:WQ:43:VAL:O	4:WQ:43:VAL:HG13	2.18	0.43
6:YA:290:GLU:O	6:YA:294:LEU:HG	2.18	0.43
6:YE:35:ASP:OD2	6:YE:329:TYR:OH	2.20	0.43
6:YI:13:ILE:HG21	6:YI:167:LEU:HB3	2.01	0.43
5:YN:62:GLU:O	5:YN:66:VAL:HG23	2.18	0.43
5:Yx:131:ILE:HD13	5:Yx:140:ILE:HD11	2.00	0.43
5:Yz:83:ILE:HG12	5:Yz:114:MET:HG3	2.00	0.43
5:ZV:118:ARG:O	5:ZV:122:VAL:HG23	2.18	0.43
5:Zg:75:GLN:O	5:Zg:79:GLU:HG2	2.18	0.43
5:Zk:57:GLU:HA	5:Zk:60:THR:HG22	2.01	0.43
5:Zm:95:SER:HB3	5:Zm:98:PHE:CE1	2.53	0.43
5:Zn:118:ARG:O	5:Zn:122:VAL:HG23	2.18	0.43
5:Zy:75:GLN:O	5:Zy:79:GLU:HG2	2.18	0.43
5:aC:72:ILE:O	5:aC:76:LEU:HG	2.18	0.43
5:aI:72:ILE:O	5:aI:76:LEU:HG	2.19	0.43
5:aW:72:ILE:O	5:aW:76:LEU:HG	2.18	0.43
5:ad:74:LYS:HE3	5:bG:111:LYS:HZ2	1.82	0.43
5:ai:72:ILE:O	5:ai:76:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:av:118:ARG:O	5:av:122:VAL:HG23	2.18	0.43
5:ax:143:ILE:HD12	5:ax:143:ILE:HA	1.92	0.43
5:bM:86:ILE:HD11	5:bM:118:ARG:HE	1.83	0.43
5:bO:99:ASN:O	5:bO:103:LEU:HG	2.18	0.43
5:bQ:99:ASN:O	5:bQ:103:LEU:HG	2.18	0.43
5:ba:86:ILE:HD11	5:ba:118:ARG:HE	1.83	0.43
5:bg:57:GLU:HA	5:bg:60:THR:HG22	2.00	0.43
5:bv:118:ARG:O	5:bv:122:VAL:HG23	2.18	0.43
5:cA:72:ILE:O	5:cA:76:LEU:HG	2.18	0.43
5:cD:122:VAL:HG11	5:cD:151:LEU:HD13	1.99	0.43
5:cG:72:ILE:O	5:cG:76:LEU:HG	2.19	0.43
5:cH:76:LEU:HD23	5:cH:79:GLU:OE2	2.19	0.43
5:cJ:118:ARG:O	5:cJ:122:VAL:HG23	2.18	0.43
5:cQ:55:ILE:HG21	5:cw:116:ALA:HB2	1.99	0.43
5:cR:118:ARG:O	5:cR:122:VAL:HG23	2.18	0.43
5:cZ:118:ARG:O	5:cZ:122:VAL:HG23	2.18	0.43
5:ci:72:ILE:O	5:ci:76:LEU:HG	2.18	0.43
5:cj:118:ARG:O	5:cj:122:VAL:HG23	2.18	0.43
5:ck:72:ILE:O	5:ck:76:LEU:HG	2.18	0.43
5:cw:86:ILE:HD11	5:cw:118:ARG:HE	1.83	0.43
5:cy:86:ILE:HD11	5:cy:118:ARG:HE	1.83	0.43
5:cz:118:ARG:O	5:cz:122:VAL:HG23	2.18	0.43
5:dG:79:GLU:O	5:dG:83:ILE:HG12	2.18	0.43
5:dI:113:ILE:O	5:dI:117:GLN:HG2	2.17	0.43
5:dK:113:ILE:O	5:dK:117:GLN:HG2	2.17	0.43
5:dL:118:ARG:O	5:dL:122:VAL:HG23	2.18	0.43
5:dM:72:ILE:O	5:dM:76:LEU:HG	2.19	0.43
5:dY:99:ASN:HB3	5:dY:102:VAL:HG22	2.00	0.43
5:de:72:ILE:O	5:de:76:LEU:HG	2.19	0.43
5:df:118:ARG:O	5:df:122:VAL:HG23	2.18	0.43
5:di:72:ILE:O	5:di:76:LEU:HG	2.18	0.43
5:dk:99:ASN:HB3	5:dk:102:VAL:HG22	2.01	0.43
5:dq:143:ILE:HG22	5:dq:143:ILE:O	2.18	0.43
5:du:72:ILE:O	5:du:76:LEU:HG	2.18	0.43
5:dv:118:ARG:O	5:dv:122:VAL:HG23	2.18	0.43
5:dv:146:GLU:CD	5:ec:58:ARG:HH21	2.27	0.43
5:eC:146:GLU:H	5:ek:56:ASN:HB2	1.83	0.43
5:eE:79:GLU:O	5:eE:83:ILE:HG12	2.18	0.43
5:eI:59:ILE:O	5:eI:63:LEU:HD23	2.18	0.43
5:eO:113:ILE:O	5:eO:117:GLN:HG2	2.19	0.43
5:eb:76:LEU:HD23	5:eb:79:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ee:122:VAL:HG11	5:ee:151:LEU:HD13	1.99	0.43
5:eg:143:ILE:HG22	5:eg:143:ILE:O	2.17	0.43
5:eh:76:LEU:HD23	5:eh:79:GLU:OE2	2.19	0.43
5:eh:112:ASP:OD1	5:eh:115:GLN:NE2	2.49	0.43
5:eh:136:LYS:HB2	5:eh:136:LYS:HE3	1.71	0.43
5:fB:118:ARG:O	5:fB:122:VAL:HG23	2.18	0.43
5:fE:72:ILE:O	5:fE:76:LEU:HG	2.19	0.43
5:fV:122:VAL:HG11	5:fV:151:LEU:HD13	1.99	0.43
5:fq:72:ILE:O	5:fq:76:LEU:HG	2.18	0.43
5:fr:122:VAL:HG11	5:fr:151:LEU:HD13	1.99	0.43
1:AE:96:GLU:O	1:AE:100:THR:HG23	2.19	0.43
1:AS:24:ILE:HG12	1:AS:131:ASN:ND2	2.34	0.43
1:AU:142:GLN:HA	2:Bt:40:ASP:OD1	2.18	0.43
1:AY:16:ILE:HD11	1:AY:120:LYS:HE3	1.99	0.43
1:Ad:8:TYR:CG	1:Ad:93:GLN:HG3	2.53	0.43
1:Ad:239:LYS:HA	1:Ad:242:ASN:OD1	2.18	0.43
1:Ai:107:ASP:HB3	1:Ai:112:LEU:HB2	2.01	0.43
1:Ak:256:LYS:O	1:Ak:258:LYS:HG2	2.18	0.43
1:Al:218:ALA:HA	1:Al:224:ALA:HA	2.00	0.43
1:Ap:79:LEU:HD11	1:Ap:305:LEU:HB2	2.01	0.43
1:Av:158:LEU:HB3	1:Av:260:LEU:HD21	2.01	0.43
1:BI:161:MET:SD	4:Hu:31:LEU:HD21	2.59	0.43
1:BM:66:THR:HG22	4:WM:52:ARG:HB3	2.01	0.43
1:BS:152:LEU:HD21	2:Cb:105:SER:HA	1.99	0.43
1:BU:79:LEU:HD11	1:BU:305:LEU:HB2	2.01	0.43
1:Bd:159:LEU:HD12	1:Bd:260:LEU:HD13	2.01	0.43
2:CS:156:ASN:HB3	2:CS:178:PHE:CZ	2.54	0.43
4:Cp:77:ILE:HG12	4:Cp:91:PRO:HB3	1.99	0.43
4:Cs:43:VAL:O	4:Cs:43:VAL:HG13	2.18	0.43
4:Cw:142:ILE:HG13	4:Cw:152:VAL:HG22	2.01	0.43
4:DA:43:VAL:O	4:DA:43:VAL:HG13	2.19	0.43
1:Et:66:THR:HG22	2:Ga:52:CYS:HB3	2.00	0.43
1:Et:96:GLU:O	1:Et:100:THR:HG23	2.19	0.43
1:FE:194:GLY:HA3	4:Hc:36:ASN:HB2	1.99	0.43
1:FE:286:ASP:HB2	1:FE:294:HIS:HB2	2.00	0.43
1:FF:49:TRP:CE3	1:FF:74:SER:HB3	2.54	0.43
1:FF:162:PRO:HG2	2:GY:31:LEU:HD11	2.00	0.43
1:FK:8:TYR:CD2	1:FK:93:GLN:HG3	2.53	0.43
1:FN:157:GLY:N	1:FN:160:ASN:OD1	2.42	0.43
1:FW:49:TRP:CE3	1:FW:74:SER:HB3	2.53	0.43
1:FY:165:ILE:HD12	1:FY:165:ILE:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FZ:257:HIS:HB2	1:FZ:316:ILE:HB	2.00	0.43
1:Fd:211:LEU:HD23	1:Fd:211:LEU:HA	1.88	0.43
1:Fg:80:ASN:ND2	1:Fg:153:PRO:O	2.51	0.43
1:Fj:57:PRO:HB2	1:Kb:84:LEU:HD13	2.00	0.43
1:Fo:152:LEU:HD21	4:Hq:112:SER:HA	1.99	0.43
1:Fz:49:TRP:CH2	1:Fz:74:SER:HB3	2.54	0.43
1:GH:113:LEU:HD11	1:GK:49:TRP:CE3	2.53	0.43
1:GJ:24:ILE:HG12	1:GJ:131:ASN:ND2	2.33	0.43
1:GR:157:GLY:N	1:GR:160:ASN:OD1	2.45	0.43
2:HS:133:PRO:HG3	2:HS:161:SER:HA	1.99	0.43
4:Hg:149:LEU:HD13	4:Hg:181:VAL:HG21	2.00	0.43
4:Hh:133:SER:HB3	4:Hh:177:TYR:CE1	2.54	0.43
5:JW:211:LYS:HG3	5:JW:214:ARG:HH21	1.83	0.43
1:KV:80:ASN:ND2	1:KV:153:PRO:O	2.52	0.43
1:KY:28:TRP:CZ3	1:KY:135:LEU:HB2	2.53	0.43
1:Kb:211:LEU:HD23	1:Kb:211:LEU:HA	1.90	0.43
1:Kc:174:LYS:O	1:Kc:212:LYS:NZ	2.51	0.43
1:Ke:175:ASP:HA	1:Ke:212:LYS:NZ	2.33	0.43
1:Kj:65:ASN:HB2	2:MI:59:ILE:H	1.84	0.43
1:Kk:257:HIS:CE1	1:Kk:318:GLN:HG3	2.54	0.43
1:Ku:175:ASP:HA	1:Ku:212:LYS:NZ	2.34	0.43
1:LE:231:GLU:OE2	1:Pq:244:ARG:NH2	2.44	0.43
1:LF:158:LEU:HB3	1:LF:260:LEU:HD21	2.00	0.43
1:LG:13:VAL:HA	1:LG:16:ILE:HG22	2.00	0.43
2:Lb:75:LEU:HD22	2:Lb:84:LEU:HD13	2.01	0.43
2:Lh:160:LEU:HD11	4:MZ:75:ARG:HH12	1.83	0.43
2:Lp:165:LYS:HB2	2:Lp:171:PHE:CE2	2.54	0.43
2:Ls:120:TYR:CE1	2:Ls:174:LEU:HB2	2.53	0.43
2:Lu:156:ASN:HB3	2:Lu:178:PHE:CZ	2.53	0.43
2:MA:75:LEU:HD22	2:MA:84:LEU:HD13	2.00	0.43
2:MD:120:TYR:CE1	2:MD:174:LEU:HB2	2.54	0.43
4:Md:71:ARG:NH1	4:Md:146:ASP:O	2.45	0.43
4:Mm:43:VAL:O	4:Mm:43:VAL:HG13	2.18	0.43
4:Mm:51:THR:HG21	4:Mm:180:LYS:HE3	2.01	0.43
1:Ob:306:ALA:O	2:Uz:31:LEU:HD22	2.18	0.43
1:Oh:306:ALA:O	4:RI:31:LEU:HB2	2.18	0.43
1:Om:16:ILE:HD11	1:Om:120:LYS:HE3	2.00	0.43
1:PE:218:ALA:HA	1:PE:224:ALA:HA	2.01	0.43
1:PJ:211:LEU:O	1:PJ:214:VAL:HG22	2.17	0.43
1:PO:24:ILE:HG12	1:PO:131:ASN:ND2	2.34	0.43
1:PR:174:LYS:O	1:PR:212:LYS:NZ	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PT:174:LYS:HE3	1:PT:318:GLN:HG3	1.99	0.43
1:Pe:16:ILE:HD11	1:Pe:120:LYS:HE3	1.99	0.43
1:Pg:49:TRP:CZ3	1:Pg:74:SER:HB3	2.54	0.43
1:Po:259:ILE:HB	1:Po:314:VAL:HB	1.99	0.43
1:Pt:231:GLU:OE2	1:Uf:244:ARG:NH2	2.44	0.43
1:Pv:13:VAL:HA	1:Pv:16:ILE:HG22	2.00	0.43
2:QE:69:TYR:CE2	2:QE:70:LYS:HG2	2.54	0.43
2:QJ:62:TYR:HE1	4:RH:52:ARG:HH12	1.65	0.43
2:Qf:77:PHE:CE1	2:Qf:84:LEU:HD13	2.54	0.43
2:Qj:137:LEU:HB3	2:Qj:145:LEU:HD22	2.01	0.43
2:Qp:75:LEU:HD22	2:Qp:84:LEU:HD13	2.00	0.43
4:RE:133:SER:HB3	4:RE:177:TYR:CE1	2.53	0.43
1:TP:108:ILE:HG22	4:Vt:27:HIS:HE1	1.84	0.43
1:TZ:85:GLN:NE2	1:TZ:298:ASP:OD1	2.48	0.43
1:Tb:87:LYS:HE2	1:Tb:296:TYR:OH	2.18	0.43
1:Th:80:ASN:ND2	1:Th:154:ASN:HB2	2.33	0.43
1:Tj:201:MET:HE3	1:Tj:201:MET:HB3	1.90	0.43
1:Tn:306:ALA:O	4:WB:31:LEU:HB2	2.18	0.43
1:Tt:218:ALA:HA	1:Tt:224:ALA:HA	2.00	0.43
1:UJ:33:GLN:HG2	1:UJ:266:SER:HA	2.01	0.43
1:UK:178:ASP:OD1	1:UK:178:ASP:N	2.51	0.43
1:UO:53:LEU:O	4:WK:42:ASN:HB3	2.19	0.43
1:UX:89:ARG:HH21	1:UX:112:LEU:HD21	1.83	0.43
1:UZ:13:VAL:HA	1:UZ:16:ILE:HG22	2.00	0.43
1:Ub:255:LEU:HD22	1:Ub:258:LYS:HB2	2.01	0.43
1:Uc:39:LEU:O	1:Uc:274:SER:OG	2.26	0.43
1:Ue:25:MET:HE1	1:Ue:130:ILE:HG22	2.01	0.43
1:Uk:41:MET:HE3	1:Uk:82:LEU:HD12	2.01	0.43
2:Uv:140:ASN:ND2	2:Uv:144:GLU:HB2	2.34	0.43
2:VF:75:LEU:HD22	2:VF:84:LEU:HD13	2.01	0.43
2:Vc:156:ASN:HB3	2:Vc:178:PHE:CZ	2.52	0.43
2:Ve:137:LEU:HB3	2:Ve:145:LEU:HD22	2.00	0.43
2:Vg:156:ASN:HB3	2:Vg:178:PHE:CZ	2.54	0.43
4:WA:43:VAL:O	4:WA:43:VAL:HG13	2.18	0.43
4:WE:173:SER:HB3	4:WE:176:VAL:HB	2.00	0.43
5:Xw:189:LEU:HD11	5:Xw:206:ILE:HG12	2.00	0.43
6:YA:196:SER:HA	6:YA:199:GLN:HG3	2.01	0.43
5:YQ:157:VAL:HG22	5:YT:133:ALA:CB	2.47	0.43
5:Yb:128:ILE:HA	5:Yb:131:ILE:HD12	2.01	0.43
5:Yc:72:ILE:O	5:Yc:76:LEU:HG	2.18	0.43
5:Yh:86:ILE:HD11	5:Yh:118:ARG:HE	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yn:76:LEU:HD22	5:Yo:76:LEU:HD21	2.00	0.43
5:Yw:136:LYS:HE3	5:Yw:136:LYS:HB2	1.87	0.43
5:ZE:59:ILE:HG13	5:Zc:98:PHE:HE2	1.84	0.43
5:ZM:77:LEU:O	5:ZM:81:GLU:HG2	2.19	0.43
5:ZV:122:VAL:HG11	5:ZV:151:LEU:HD13	2.00	0.43
5:ZY:72:ILE:O	5:ZY:76:LEU:HG	2.18	0.43
5:Ze:72:ILE:O	5:Ze:76:LEU:HG	2.18	0.43
5:Zr:122:VAL:HG11	5:Zr:151:LEU:HD13	1.99	0.43
5:Zv:143:ILE:HD12	5:Zv:143:ILE:HA	1.92	0.43
5:aA:72:ILE:O	5:aA:76:LEU:HG	2.19	0.43
5:aH:118:ARG:O	5:aH:122:VAL:HG23	2.18	0.43
5:aO:72:ILE:O	5:aO:76:LEU:HG	2.18	0.43
5:ac:79:GLU:O	5:ac:83:ILE:HG12	2.18	0.43
5:ad:112:ASP:OD1	5:ad:115:GLN:NE2	2.49	0.43
5:ak:99:ASN:O	5:ak:103:LEU:HG	2.18	0.43
5:aq:72:ILE:O	5:aq:76:LEU:HG	2.18	0.43
5:aw:98:PHE:HB3	5:aw:117:GLN:HE22	1.83	0.43
5:bA:72:ILE:O	5:bA:76:LEU:HG	2.18	0.43
5:bM:153:SER:HB2	5:bN:133:ALA:HB1	2.01	0.43
5:bR:122:VAL:HG11	5:bR:151:LEU:HD13	1.99	0.43
5:bS:72:ILE:O	5:bS:76:LEU:HG	2.18	0.43
5:bV:122:VAL:HG11	5:bV:151:LEU:HD13	1.99	0.43
5:ba:79:GLU:O	5:ba:83:ILE:HG12	2.17	0.43
5:bc:75:GLN:O	5:bc:79:GLU:HG2	2.17	0.43
5:bg:111:LYS:HZ2	5:bj:74:LYS:HE3	1.82	0.43
5:bj:122:VAL:HG11	5:bj:151:LEU:HD13	1.98	0.43
5:bl:143:ILE:HD12	5:bl:143:ILE:HA	1.92	0.43
5:bn:122:VAL:HG11	5:bn:151:LEU:HD13	1.99	0.43
5:cD:118:ARG:O	5:cD:122:VAL:HG23	2.18	0.43
5:cI:72:ILE:O	5:cI:76:LEU:HG	2.18	0.43
5:cK:72:ILE:O	5:cK:76:LEU:HG	2.18	0.43
5:cP:118:ARG:O	5:cP:122:VAL:HG23	2.18	0.43
5:cc:72:ILE:O	5:cc:76:LEU:HG	2.18	0.43
5:cg:79:GLU:O	5:cg:83:ILE:HG12	2.17	0.43
5:ci:57:GLU:HA	5:ci:60:THR:HG22	2.01	0.43
5:cq:72:ILE:O	5:cq:76:LEU:HG	2.19	0.43
5:cu:72:ILE:O	5:cu:76:LEU:HG	2.18	0.43
5:dA:72:ILE:O	5:dA:76:LEU:HG	2.19	0.43
5:dB:118:ARG:O	5:dB:122:VAL:HG23	2.18	0.43
5:dd:122:VAL:HG11	5:dd:151:LEU:HD13	1.99	0.43
5:dd:143:ILE:HD12	5:dd:143:ILE:HA	1.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dn:118:ARG:O	5:dn:122:VAL:HG23	2.18	0.43
5:do:79:GLU:O	5:do:83:ILE:HG12	2.18	0.43
5:dt:118:ARG:O	5:dt:122:VAL:HG23	2.18	0.43
5:eB:146:GLU:CD	5:ei:58:ARG:HH21	2.26	0.43
5:eO:72:ILE:O	5:eO:76:LEU:HG	2.18	0.43
5:eV:76:LEU:HD23	5:eV:79:GLU:OE2	2.18	0.43
5:ea:113:ILE:O	5:ea:117:GLN:HG2	2.19	0.43
5:ej:76:LEU:HD23	5:ej:79:GLU:OE2	2.19	0.43
5:er:76:LEU:HD23	5:er:79:GLU:OE2	2.19	0.43
5:et:118:ARG:O	5:et:122:VAL:HG23	2.18	0.43
5:ew:94:LEU:HD11	5:ew:121:LEU:HG	1.99	0.43
5:ex:122:VAL:HG11	5:ex:151:LEU:HD13	1.99	0.43
5:fG:99:ASN:HB3	5:fG:102:VAL:HG22	2.00	0.43
5:fP:118:ARG:O	5:fP:122:VAL:HG23	2.18	0.43
5:fV:76:LEU:HD23	5:fV:79:GLU:OE2	2.18	0.43
5:fa:72:ILE:O	5:fa:76:LEU:HG	2.18	0.43
5:fg:72:ILE:O	5:fg:76:LEU:HG	2.18	0.43
5:fj:76:LEU:HD23	5:fj:79:GLU:OE2	2.18	0.43
5:fn:118:ARG:O	5:fn:122:VAL:HG23	2.18	0.43
1:AH:108:ILE:HG22	4:Cl:27:HIS:HE1	1.84	0.43
1:AI:142:GLN:HA	2:Bl:40:ASP:OD1	2.18	0.43
1:AY:259:ILE:HB	1:AY:314:VAL:HB	1.99	0.43
1:Al:57:PRO:HA	1:Aw:86:TYR:HE1	1.84	0.43
1:Ar:205:VAL:HG12	1:Ar:259:ILE:HG23	2.01	0.43
1:Az:31:PRO:HG3	5:EJ:218:TYR:CD1	2.53	0.43
1:BB:33:GLN:HG2	1:BB:266:SER:HA	2.01	0.43
1:BC:194:GLY:HA3	4:DD:36:ASN:OD1	2.19	0.43
1:BG:163:GLU:O	1:BG:164:GLN:NE2	2.50	0.43
1:BI:260:LEU:HD23	1:BI:260:LEU:HA	1.90	0.43
2:Bg:166:LEU:HD11	2:Bg:172:ILE:HD13	2.01	0.43
2:Br:31:LEU:HD22	1:TQ:306:ALA:O	2.18	0.43
2:CB:130:GLY:O	2:CB:147:LYS:NZ	2.51	0.43
2:Ca:100:ASP:HB3	2:Ca:109:THR:HB	2.01	0.43
2:Cb:125:LYS:HD2	2:Cb:169:ASP:HA	2.00	0.43
4:Cr:149:LEU:HD13	4:Cr:181:VAL:HG21	2.00	0.43
4:DG:37:GLU:O	4:DG:41:LYS:HD2	2.19	0.43
1:FG:205:VAL:HG12	1:FG:259:ILE:HG23	2.01	0.43
1:FH:240:ALA:HB2	1:FO:214:VAL:HG11	2.01	0.43
1:FH:283:GLU:HB2	5:IR:199:PHE:CD2	2.54	0.43
1:FJ:272:LYS:N	1:FJ:303:GLY:O	2.46	0.43
1:FL:31:PRO:HG3	5:IV:218:TYR:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FR:80:ASN:ND2	1:FR:153:PRO:O	2.52	0.43
1:Fa:13:VAL:HA	1:Fa:16:ILE:HG22	1.99	0.43
1:Fe:79:LEU:HD11	1:Fe:305:LEU:HB2	2.01	0.43
1:Ff:49:TRP:CE3	1:Ff:74:SER:HB3	2.54	0.43
1:Fk:24:ILE:HG12	1:Fk:131:ASN:ND2	2.34	0.43
1:Fo:31:PRO:HG3	5:Iy:218:TYR:CD1	2.53	0.43
1:Fw:87:LYS:NZ	2:HM:53:THR:O	2.33	0.43
1:Fz:255:LEU:HD22	1:Fz:258:LYS:HB2	1.99	0.43
1:GD:49:TRP:CH2	1:GD:74:SER:HB3	2.54	0.43
1:GF:288:ASP:OD1	1:GF:289:SER:N	2.45	0.43
1:GQ:77:VAL:HG11	1:GQ:305:LEU:HD13	1.99	0.43
1:GR:178:ASP:OD1	1:GR:178:ASP:N	2.52	0.43
1:GT:45:LYS:HA	1:GT:77:VAL:O	2.18	0.43
2:GU:156:ASN:HB2	2:GU:178:PHE:O	2.19	0.43
2:GW:61:ASN:ND2	1:Jf:59:THR:O	2.51	0.43
2:Gn:181:ARG:NH1	2:Go:94:LEU:O	2.50	0.43
2:Gs:76:SER:HB3	2:Gs:87:GLU:HG2	2.01	0.43
2:HD:56:LYS:HD2	4:Ho:56:PHE:HD1	1.82	0.43
2:HD:120:TYR:CE1	2:HD:174:LEU:HB2	2.53	0.43
2:HF:137:LEU:HB3	2:HF:145:LEU:HD22	2.01	0.43
4:Hd:162:ASN:HB2	4:Hd:184:PHE:O	2.18	0.43
4:Hh:166:LEU:HD12	4:Hh:180:LYS:HE2	2.00	0.43
4:Hx:144:ASN:HD21	4:Hx:148:ALA:HB3	1.83	0.43
1:Jf:152:LEU:HD21	2:LJ:105:SER:HA	2.00	0.43
1:Jg:260:LEU:HD23	1:Jg:260:LEU:HA	1.92	0.43
1:Jn:17:ILE:HG21	5:Mx:189:LEU:HD12	2.01	0.43
1:Jr:66:THR:HG22	2:LU:52:CYS:HB3	2.00	0.43
1:Jt:286:ASP:HB2	1:Jt:294:HIS:HB2	2.00	0.43
1:KA:49:TRP:CE3	1:KA:74:SER:HB3	2.54	0.43
1:KE:152:LEU:HD21	2:Ld:105:SER:HA	2.00	0.43
1:KF:201:MET:HE3	1:KF:201:MET:HB3	1.90	0.43
1:KN:305:LEU:HD11	4:MZ:32:LEU:HG	2.00	0.43
1:KT:16:ILE:HD11	1:KT:120:LYS:HE3	2.00	0.43
1:KT:89:ARG:HH21	1:KT:112:LEU:HD13	1.83	0.43
1:KW:97:LYS:HE2	1:KW:97:LYS:HB3	1.87	0.43
1:Kd:152:LEU:HD21	4:Mf:112:SER:HA	2.00	0.43
1:Km:277:MET:HA	1:Km:300:VAL:HB	2.00	0.43
1:Kp:96:GLU:O	1:Kp:100:THR:HG23	2.19	0.43
1:LE:175:ASP:HA	1:LE:212:LYS:NZ	2.33	0.43
1:LF:161:MET:HG3	4:Rb:31:LEU:HD11	2.00	0.43
2:LP:69:TYR:CE2	2:LP:70:LYS:HG2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Lb:165:LYS:HB2	2:Lb:171:PHE:CE2	2.53	0.43
2:Lh:76:SER:HB3	2:Lh:87:GLU:HG2	2.01	0.43
4:MU:10:GLU:O	4:MU:14:LYS:HG2	2.18	0.43
4:Mb:65:LEU:HD12	4:Mb:92:HIS:CE1	2.54	0.43
4:Mf:43:VAL:O	4:Mf:43:VAL:HG13	2.18	0.43
4:Mj:43:VAL:O	4:Mj:43:VAL:HG13	2.19	0.43
1:OT:194:GLY:HA3	2:Un:36:ILE:HG23	2.01	0.43
1:Oo:317:LYS:NZ	1:Oo:319:SER:OXT	2.42	0.43
1:Oq:212:LYS:HA	1:Oq:215:LYS:HE3	1.99	0.43
1:Or:16:ILE:HD11	1:Or:120:LYS:HE3	1.99	0.43
1:Ow:26:TYR:O	5:SG:218:TYR:OH	2.35	0.43
1:PB:107:ASP:HB3	1:PB:112:LEU:HB2	2.01	0.43
1:PB:278:LEU:HD23	1:PB:278:LEU:HA	1.84	0.43
1:PI:253:ASN:OD1	1:PI:253:ASN:N	2.52	0.43
1:PK:80:ASN:ND2	1:PK:153:PRO:O	2.52	0.43
1:PR:49:TRP:CZ3	1:PR:74:SER:HB3	2.54	0.43
1:PS:152:LEU:HD21	4:RU:112:SER:HA	2.01	0.43
1:PV:80:ASN:C	1:PV:81:TYR:HD1	2.26	0.43
1:Pg:259:ILE:HB	1:Pg:314:VAL:HB	2.00	0.43
1:Pk:178:ASP:OD1	1:Pk:178:ASP:N	2.51	0.43
1:Pm:255:LEU:HD22	1:Pm:258:LYS:HB2	2.01	0.43
1:Pn:79:LEU:HD11	1:Pn:305:LEU:HB2	2.01	0.43
1:Pq:178:ASP:N	1:Pq:178:ASP:OD1	2.52	0.43
1:Pw:16:ILE:HD12	1:Pw:116:ALA:HB1	2.00	0.43
1:Px:196:GLU:HB3	1:Px:265:ASN:HD22	1.84	0.43
2:QZ:23:LYS:HE3	2:QZ:23:LYS:HB2	1.87	0.43
2:Qn:140:ASN:HD21	2:Qn:144:GLU:HB2	1.83	0.43
4:RL:133:SER:HB3	4:RL:177:TYR:CE1	2.54	0.43
4:Rb:43:VAL:O	4:Rb:43:VAL:HG13	2.18	0.43
5:Sl:211:LYS:HG3	5:Sl:214:ARG:NH2	2.34	0.43
1:TS:49:TRP:CZ3	1:TS:74:SER:HB3	2.53	0.43
1:TW:306:ALA:O	4:Vx:31:LEU:HB2	2.18	0.43
1:Tg:196:GLU:HB2	1:Tg:268:LEU:HD11	1.99	0.43
1:Tl:26:TYR:O	5:Wv:218:TYR:OH	2.35	0.43
1:Tl:31:PRO:HG3	5:Wv:218:TYR:CG	2.54	0.43
1:Tp:55:ALA:O	1:Tt:86:TYR:OH	2.27	0.43
1:Tp:65:ASN:ND2	2:VN:57:ASP:O	2.51	0.43
1:UM:181:PHE:HA	1:UM:184:ILE:HD12	2.01	0.43
1:UN:65:ASN:HB2	2:Vm:59:ILE:H	1.84	0.43
1:UN:101:SER:OG	1:UN:102:ASP:N	2.52	0.43
1:UQ:165:ILE:HD13	1:UQ:191:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UV:49:TRP:CZ3	1:UV:74:SER:HB3	2.54	0.43
1:UY:84:LEU:HD13	1:Ui:57:PRO:HB2	2.00	0.43
1:Ua:113:LEU:HD11	1:Ud:49:TRP:CE3	2.53	0.43
1:Uc:79:LEU:HD11	1:Uc:305:LEU:HB2	2.01	0.43
2:VG:77:PHE:HB2	4:WA:138:LYS:HE2	2.00	0.43
2:VJ:130:GLY:O	2:VJ:147:LYS:NZ	2.51	0.43
2:VY:120:TYR:CE1	2:VY:174:LEU:HB2	2.54	0.43
2:Vc:140:ASN:HD21	2:Vc:144:GLU:HB2	1.83	0.43
2:Vi:100:ASP:HB3	2:Vi:109:THR:HB	2.01	0.43
4:WD:149:LEU:HD13	4:WD:181:VAL:HG21	2.01	0.43
4:WP:43:VAL:O	4:WP:43:VAL:HG13	2.18	0.43
6:YH:181:GLU:HG3	6:YI:168:LEU:HD11	2.01	0.43
5:YO:76:LEU:O	5:YO:79:GLU:HG2	2.19	0.43
5:YV:119:ARG:HG2	5:YV:140:ILE:HG22	2.01	0.43
5:Yh:75:GLN:O	5:Yh:79:GLU:HG2	2.18	0.43
5:Yk:143:ILE:HG22	5:Yk:143:ILE:O	2.17	0.43
5:Yw:75:GLN:O	5:Yw:79:GLU:HG2	2.19	0.43
5:Yy:55:ILE:O	5:Yy:59:ILE:HG12	2.19	0.43
5:Yz:118:ARG:O	5:Yz:122:VAL:HG23	2.18	0.43
5:ZZ:112:ASP:OD1	5:ZZ:115:GLN:NE2	2.48	0.43
5:Zf:118:ARG:O	5:Zf:122:VAL:HG23	2.18	0.43
5:Zh:118:ARG:O	5:Zh:122:VAL:HG23	2.19	0.43
5:Zi:153:SER:HB2	5:Zj:133:ALA:HB1	2.00	0.43
5:Zk:55:ILE:HD13	5:aQ:116:ALA:HB1	2.00	0.43
5:Zq:119:ARG:HB3	5:Zq:123:ARG:NH1	2.33	0.43
5:Zu:55:ILE:HD13	5:aa:116:ALA:HB1	2.00	0.43
5:Zw:75:GLN:O	5:Zw:79:GLU:HG2	2.18	0.43
5:aC:79:GLU:O	5:aC:83:ILE:HG12	2.18	0.43
5:aE:79:GLU:O	5:aE:83:ILE:HG12	2.18	0.43
5:aJ:118:ARG:O	5:aJ:122:VAL:HG23	2.18	0.43
5:aQ:57:GLU:HA	5:aQ:60:THR:HG22	2.01	0.43
5:aT:118:ARG:O	5:aT:122:VAL:HG23	2.18	0.43
5:aV:112:ASP:OD1	5:aV:115:GLN:NE2	2.50	0.43
5:aV:118:ARG:O	5:aV:122:VAL:HG23	2.18	0.43
5:aa:72:ILE:O	5:aa:76:LEU:HG	2.19	0.43
5:ai:99:ASN:O	5:ai:103:LEU:HG	2.18	0.43
5:ao:72:ILE:O	5:ao:76:LEU:HG	2.18	0.43
5:au:57:GLU:HA	5:au:60:THR:HG22	2.01	0.43
5:ax:118:ARG:O	5:ax:122:VAL:HG23	2.18	0.43
5:bB:118:ARG:O	5:bB:122:VAL:HG23	2.18	0.43
5:bF:112:ASP:OD1	5:bF:115:GLN:NE2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bL:118:ARG:O	5:bL:122:VAL:HG23	2.18	0.43
5:bT:118:ARG:O	5:bT:122:VAL:HG23	2.18	0.43
5:bT:122:VAL:HG11	5:bT:151:LEU:HD13	1.99	0.43
5:bi:57:GLU:HA	5:bi:60:THR:HG22	2.00	0.43
5:bo:72:ILE:O	5:bo:76:LEU:HG	2.18	0.43
5:bx:118:ARG:O	5:bx:122:VAL:HG23	2.18	0.43
5:bx:122:VAL:HG11	5:bx:151:LEU:HD13	2.00	0.43
5:cX:118:ARG:O	5:cX:122:VAL:HG23	2.18	0.43
5:cc:55:ILE:HD13	5:dI:116:ALA:HB1	2.01	0.43
5:dE:72:ILE:O	5:dE:76:LEU:HG	2.19	0.43
5:dM:79:GLU:O	5:dM:83:ILE:HG12	2.18	0.43
5:dU:57:GLU:HA	5:dU:60:THR:HG22	2.01	0.43
5:dU:72:ILE:O	5:dU:76:LEU:HG	2.18	0.43
5:dY:57:GLU:HA	5:dY:60:THR:HG22	2.01	0.43
5:dg:113:ILE:O	5:dg:117:GLN:HG2	2.18	0.43
5:dm:72:ILE:O	5:dm:76:LEU:HG	2.18	0.43
5:dm:99:ASN:HB3	5:dm:102:VAL:HG22	2.01	0.43
5:ds:75:GLN:O	5:ds:79:GLU:HG2	2.18	0.43
5:du:79:GLU:O	5:du:83:ILE:HG12	2.18	0.43
5:dx:76:LEU:HD23	5:dx:79:GLU:OE2	2.19	0.43
5:eA:113:ILE:O	5:eA:117:GLN:HG2	2.18	0.43
5:eB:76:LEU:HD23	5:eB:79:GLU:OE2	2.19	0.43
5:eC:94:LEU:HD11	5:eC:121:LEU:HG	2.00	0.43
5:eG:72:ILE:O	5:eG:76:LEU:HG	2.19	0.43
5:eU:99:ASN:HB3	5:eU:102:VAL:HG22	2.01	0.43
5:ee:99:ASN:HB3	5:ee:102:VAL:HG22	2.00	0.43
5:eh:118:ARG:O	5:eh:122:VAL:HG23	2.18	0.43
5:el:76:LEU:HD23	5:el:79:GLU:OE2	2.18	0.43
5:en:76:LEU:HD23	5:en:79:GLU:OE2	2.18	0.43
5:et:122:VAL:HG11	5:et:151:LEU:HD13	2.00	0.43
5:fE:99:ASN:HB3	5:fE:102:VAL:HG22	2.00	0.43
5:fK:72:ILE:O	5:fK:76:LEU:HG	2.18	0.43
5:fL:143:ILE:HD12	5:fL:143:ILE:HA	1.91	0.43
5:fQ:72:ILE:O	5:fQ:76:LEU:HG	2.18	0.43
5:fX:118:ARG:O	5:fX:122:VAL:HG23	2.18	0.43
5:ff:76:LEU:HD23	5:ff:79:GLU:OE2	2.18	0.43
5:ff:118:ARG:O	5:ff:122:VAL:HG23	2.18	0.43
5:fh:76:LEU:HD23	5:fh:79:GLU:OE2	2.19	0.43
5:fu:72:ILE:O	5:fu:76:LEU:HG	2.19	0.43
5:fu:94:LEU:HD11	5:fu:121:LEU:HG	2.01	0.43
5:fy:72:ILE:O	5:fy:76:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:20:VAL:O	5:DT:213:ARG:NH2	2.30	0.43
1:AP:80:ASN:HB2	1:AP:155:MET:HG3	2.00	0.43
1:AW:49:TRP:CE3	1:AW:74:SER:HB3	2.54	0.43
1:BG:87:LYS:NZ	2:CW:53:THR:O	2.38	0.43
1:BM:59:THR:HG21	2:Vf:107:MET:HE3	2.00	0.43
1:BZ:163:GLU:HB2	2:Bx:31:LEU:HD13	2.01	0.43
1:Ba:253:ASN:OD1	1:Ba:253:ASN:N	2.52	0.43
1:Bb:161:MET:SD	4:Hx:31:LEU:HD21	2.59	0.43
2:Bn:167:THR:HB	2:Bn:170:LEU:HB3	2.00	0.43
2:Bu:181:ARG:NH1	2:Bv:94:LEU:O	2.40	0.43
2:Bx:75:LEU:HD22	2:Bx:84:LEU:HD13	2.01	0.43
2:Bx:165:LYS:HB2	2:Bx:171:PHE:CE2	2.53	0.43
2:CB:129:ASN:OD1	2:CB:130:GLY:N	2.52	0.43
2:CP:137:LEU:HD11	2:CP:159:ALA:HB2	2.00	0.43
2:CQ:120:TYR:CE1	2:CQ:174:LEU:HB2	2.54	0.43
2:Ce:167:THR:HG22	2:Ce:168:GLU:H	1.84	0.43
4:Cs:166:LEU:HD12	4:Cs:180:LYS:HE2	2.00	0.43
4:Cz:71:ARG:NH1	4:Cz:146:ASP:O	2.45	0.43
4:DA:149:LEU:HD13	4:DA:181:VAL:HG21	2.00	0.43
4:DE:43:VAL:O	4:DE:43:VAL:HG13	2.18	0.43
4:DE:144:ASN:HD21	4:DE:148:ALA:HB3	1.84	0.43
4:DF:43:VAL:O	4:DF:43:VAL:HG13	2.19	0.43
1:Ex:306:ALA:O	2:LV:31:LEU:HD22	2.18	0.43
1:FC:96:GLU:O	1:FC:100:THR:HG23	2.19	0.43
1:FI:16:ILE:HD11	1:FI:120:LYS:HE3	2.00	0.43
1:FJ:85:GLN:HB3	1:FP:60:ILE:HD11	2.01	0.43
1:FQ:57:PRO:HD2	1:KG:149:LYS:HD2	2.00	0.43
1:FU:178:ASP:OD1	1:FU:178:ASP:N	2.52	0.43
1:Fe:112:LEU:HD21	1:Fe:292:VAL:HG22	2.01	0.43
1:Fe:163:GLU:HB3	1:Fe:308:ARG:HG3	1.99	0.43
1:Fs:49:TRP:CZ3	1:Fs:74:SER:HB3	2.52	0.43
1:Fs:86:TYR:HE1	1:Fv:57:PRO:HA	1.83	0.43
1:Fu:59:THR:O	2:HT:61:ASN:ND2	2.52	0.43
1:Fv:201:MET:HE3	1:Fv:201:MET:HB3	1.90	0.43
1:Fx:165:ILE:HD13	1:Fx:191:LEU:HD23	2.01	0.43
1:GK:278:LEU:HD12	5:JU:210:TYR:CG	2.54	0.43
1:GL:158:LEU:HB3	1:GL:260:LEU:HD21	2.00	0.43
2:HA:165:LYS:HB2	2:HA:171:PHE:CE2	2.54	0.43
2:HF:120:TYR:CE1	2:HF:174:LEU:HB2	2.54	0.43
2:HJ:140:ASN:HD21	2:HJ:144:GLU:HB2	1.83	0.43
2:HP:100:ASP:HB3	2:HP:109:THR:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Hg:43:VAL:O	4:Hg:43:VAL:HG13	2.19	0.43
4:Ht:43:VAL:O	4:Ht:43:VAL:HG13	2.18	0.43
4:Hu:43:VAL:O	4:Hu:43:VAL:HG13	2.19	0.43
1:Jr:96:GLU:O	1:Jr:100:THR:HG23	2.19	0.43
1:Ju:49:TRP:CE3	1:Ju:74:SER:HB3	2.54	0.43
1:Jz:8:TYR:CD2	1:Jz:93:GLN:HG3	2.53	0.43
1:KA:239:LYS:HA	1:KA:242:ASN:OD1	2.18	0.43
1:KE:307:THR:HG22	2:LX:32:LEU:HB2	2.01	0.43
1:KH:133:PHE:O	1:KH:137:GLY:N	2.47	0.43
1:KO:257:HIS:HB2	1:KO:316:ILE:HB	2.00	0.43
1:KR:80:ASN:ND2	1:KR:153:PRO:O	2.33	0.43
1:KT:54:ASN:ND2	2:Lk:47:ASN:HD21	2.17	0.43
1:Kl:307:THR:O	1:Kl:310:THR:OG1	2.36	0.43
1:Kv:57:PRO:HB2	1:Ky:84:LEU:HB3	2.00	0.43
1:Kv:57:PRO:HG2	1:Ky:84:LEU:HD13	2.00	0.43
1:Ky:79:LEU:HD11	1:Ky:305:LEU:HB2	2.01	0.43
1:Ky:142:GLN:O	4:Ml:39:ARG:HD2	2.18	0.43
1:Ky:272:LYS:N	1:Ky:303:GLY:O	2.38	0.43
1:LD:49:TRP:CH2	1:LD:74:SER:HB3	2.54	0.43
2:LJ:156:ASN:HB2	2:LJ:178:PHE:O	2.19	0.43
2:LL:120:TYR:CE1	2:LL:174:LEU:HB2	2.53	0.43
2:Lz:44:ILE:HD12	2:Lz:46:SER:HB3	2.00	0.43
2:MK:134:GLY:HA2	4:Mm:77:ILE:HD13	2.00	0.43
4:MZ:149:LEU:HD13	4:MZ:181:VAL:HG21	2.01	0.43
4:Mi:144:ASN:HD21	4:Mi:148:ALA:HB3	1.84	0.43
5:Nw:211:LYS:HG3	5:Nw:214:ARG:NH2	2.34	0.43
1:Od:196:GLU:HB3	1:Od:265:ASN:HD22	1.83	0.43
1:Og:66:THR:HG22	2:QJ:52:CYS:HB3	2.00	0.43
1:Oh:57:PRO:HG2	1:Ol:84:LEU:HD13	2.01	0.43
1:Oi:80:ASN:ND2	1:Oi:153:PRO:O	2.52	0.43
1:Oj:49:TRP:CE3	1:Oj:74:SER:HB3	2.54	0.43
1:Ok:165:ILE:HD13	1:Ok:191:LEU:HD23	2.00	0.43
1:Ov:242:ASN:ND2	1:Ov:245:GLU:HB2	2.33	0.43
1:PG:107:ASP:OD2	1:PG:110:ASN:ND2	2.51	0.43
1:PH:261:ILE:HD12	1:PH:312:LEU:HD23	1.99	0.43
1:PK:308:ARG:H	2:VL:34:ASN:ND2	2.16	0.43
1:PM:26:TYR:O	5:SW:218:TYR:OH	2.29	0.43
1:PO:158:LEU:HB3	1:PO:260:LEU:HD21	2.01	0.43
1:PS:89:ARG:HH21	1:PS:112:LEU:HD21	1.83	0.43
1:PV:163:GLU:HB3	1:PV:308:ARG:HG3	2.01	0.43
1:PW:49:TRP:CZ3	1:PW:74:SER:HB3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PW:86:TYR:HE1	1:PZ:57:PRO:HA	1.83	0.43
1:Pj:239:LYS:HA	1:Pj:242:ASN:OD1	2.19	0.43
1:Pp:158:LEU:HB3	1:Pp:260:LEU:HD21	2.00	0.43
1:Pv:96:GLU:O	1:Pv:100:THR:HG23	2.19	0.43
2:QA:61:ASN:ND2	1:TJ:59:THR:O	2.51	0.43
2:Ql:156:ASN:HB3	2:Ql:178:PHE:CZ	2.54	0.43
2:Qq:165:LYS:HE3	2:Qq:168:GLU:HA	2.00	0.43
4:RR:34:ASN:ND2	1:Tq:192:GLU:OE1	2.50	0.43
5:SA:211:LYS:O	5:SA:215:ILE:HG13	2.19	0.43
1:TR:17:ILE:HG21	5:Wb:189:LEU:HD12	2.01	0.43
1:TX:80:ASN:HB2	1:TX:155:MET:HG3	2.00	0.43
1:Ta:177:MET:HE3	1:Ta:181:PHE:HB2	2.00	0.43
1:Tl:133:PHE:O	1:Tl:137:GLY:N	2.47	0.43
1:Tx:81:TYR:OH	1:Tx:272:LYS:O	2.27	0.43
1:UD:24:ILE:HG12	1:UD:131:ASN:ND2	2.34	0.43
1:UP:107:ASP:OD2	1:UP:110:ASN:ND2	2.34	0.43
1:UQ:286:ASP:HB2	1:UQ:294:HIS:HB2	2.01	0.43
1:UY:257:HIS:CE1	1:UY:318:GLN:HG3	2.54	0.43
1:UY:286:ASP:HB2	1:UY:294:HIS:HB2	2.01	0.43
1:Uc:24:ILE:HG12	1:Uc:131:ASN:ND2	2.33	0.43
1:Uc:110:ASN:OD1	1:Ue:62:ASN:ND2	2.37	0.43
2:Ve:75:LEU:HD22	2:Ve:84:LEU:HD13	2.00	0.43
2:Vg:133:PRO:HG3	2:Vg:161:SER:HA	2.01	0.43
2:Vk:156:ASN:HB3	2:Vk:178:PHE:CZ	2.54	0.43
4:Vw:162:ASN:HB2	4:Vw:184:PHE:O	2.18	0.43
4:WF:65:LEU:HD12	4:WF:92:HIS:CE1	2.54	0.43
4:WG:22:MET:HB3	4:WG:23:LYS:H	1.55	0.43
4:WH:159:ALA:HB3	4:WH:187:LYS:HD2	2.01	0.43
6:YA:320:ASN:HB3	6:YA:368:GLN:HE22	1.84	0.43
6:YF:348:LEU:HD23	6:YF:348:LEU:HA	1.86	0.43
5:YL:76:LEU:O	5:YL:79:GLU:HG2	2.18	0.43
5:YP:94:LEU:HD11	5:YP:121:LEU:HG	2.00	0.43
5:Ya:55:ILE:CD1	5:ZI:98:PHE:CD2	3.01	0.43
5:Yf:133:ALA:HB1	5:Yg:153:SER:HB2	2.00	0.43
5:Yg:130:GLN:HG2	5:Yg:154:LEU:HD21	2.00	0.43
5:Yj:144:ASP:HA	5:Yj:148:LEU:HB2	2.01	0.43
5:Yo:73:GLU:O	5:Yo:77:LEU:HG	2.19	0.43
5:ZD:72:ILE:O	5:ZD:76:LEU:HG	2.19	0.43
5:ZH:136:LYS:HE3	5:ZH:136:LYS:HB2	1.89	0.43
5:ZT:122:VAL:HG11	5:ZT:151:LEU:HD13	2.00	0.43
5:ZX:118:ARG:O	5:ZX:122:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Zg:72:ILE:O	5:Zg:76:LEU:HG	2.18	0.43
5:Zh:122:VAL:HG11	5:Zh:151:LEU:HD13	2.00	0.43
5:Zq:72:ILE:O	5:Zq:76:LEU:HG	2.19	0.43
5:Zr:112:ASP:OD1	5:Zr:115:GLN:NE2	2.48	0.43
5:Zu:57:GLU:HA	5:Zu:60:THR:HG22	2.00	0.43
5:aK:75:GLN:O	5:aK:79:GLU:HG2	2.18	0.43
5:aM:79:GLU:O	5:aM:83:ILE:HG12	2.18	0.43
5:aP:76:LEU:HD23	5:aP:79:GLU:OE2	2.19	0.43
5:aQ:94:LEU:HD11	5:aQ:121:LEU:HG	2.01	0.43
5:aT:122:VAL:HG11	5:aT:151:LEU:HD13	1.99	0.43
5:aU:57:GLU:HA	5:aU:60:THR:HG22	2.01	0.43
5:ak:72:ILE:O	5:ak:76:LEU:HG	2.18	0.43
5:ao:57:GLU:HA	5:ao:60:THR:HG22	2.01	0.43
5:ay:72:ILE:O	5:ay:76:LEU:HG	2.18	0.43
5:bA:75:GLN:O	5:bA:79:GLU:HG2	2.18	0.43
5:bF:118:ARG:O	5:bF:122:VAL:HG23	2.18	0.43
5:bH:118:ARG:O	5:bH:122:VAL:HG23	2.18	0.43
5:bK:57:GLU:HA	5:bK:60:THR:HG22	1.99	0.43
5:bO:153:SER:HB2	5:bP:133:ALA:HB1	2.00	0.43
5:bW:86:ILE:HD11	5:bW:118:ARG:HE	1.82	0.43
5:be:72:ILE:O	5:be:76:LEU:HG	2.18	0.43
5:bi:79:GLU:O	5:bi:83:ILE:HG12	2.17	0.43
5:bs:72:ILE:O	5:bs:76:LEU:HG	2.18	0.43
5:cD:76:LEU:HD23	5:cD:79:GLU:OE2	2.19	0.43
5:cH:112:ASP:OD1	5:cH:115:GLN:NE2	2.49	0.43
5:cL:118:ARG:O	5:cL:122:VAL:HG23	2.18	0.43
5:cN:76:LEU:HD23	5:cN:79:GLU:OE2	2.19	0.43
5:cO:72:ILE:O	5:cO:76:LEU:HG	2.18	0.43
5:cO:99:ASN:HB3	5:cO:102:VAL:HG22	2.00	0.43
5:cX:112:ASP:OD1	5:cX:115:GLN:NE2	2.49	0.43
5:cb:76:LEU:HD23	5:cb:79:GLU:OE2	2.19	0.43
5:ck:75:GLN:O	5:ck:79:GLU:HG2	2.17	0.43
5:cm:98:PHE:HB3	5:cm:117:GLN:HE22	1.84	0.43
5:cs:57:GLU:HA	5:cs:60:THR:HG22	2.00	0.43
5:dJ:118:ARG:O	5:dJ:122:VAL:HG23	2.18	0.43
5:dK:79:GLU:O	5:dK:83:ILE:HG12	2.18	0.43
5:dN:112:ASP:OD1	5:dN:115:GLN:NE2	2.48	0.43
5:dS:57:GLU:HA	5:dS:60:THR:HG22	2.01	0.43
5:dc:75:GLN:O	5:dc:79:GLU:HG2	2.19	0.43
5:dg:143:ILE:HG22	5:dg:143:ILE:O	2.17	0.43
5:di:79:GLU:O	5:di:83:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dq:59:ILE:O	5:dq:63:LEU:HD23	2.18	0.43
5:dq:75:GLN:O	5:dq:79:GLU:HG2	2.18	0.43
5:eE:72:ILE:O	5:eE:76:LEU:HG	2.19	0.43
5:eR:76:LEU:HD23	5:eR:79:GLU:OE2	2.18	0.43
5:eU:72:ILE:O	5:eU:76:LEU:HG	2.18	0.43
5:eg:113:ILE:O	5:eg:117:GLN:HG2	2.19	0.43
5:em:131:ILE:HD13	5:em:140:ILE:HD11	2.01	0.43
5:fC:94:LEU:HD11	5:fC:121:LEU:HG	2.00	0.43
5:fI:99:ASN:HB3	5:fI:102:VAL:HG22	2.00	0.43
5:fM:72:ILE:O	5:fM:76:LEU:HG	2.18	0.43
5:fM:99:ASN:HB3	5:fM:102:VAL:HG22	2.01	0.43
5:fT:118:ARG:O	5:fT:122:VAL:HG23	2.18	0.43
5:fU:94:LEU:HD11	5:fU:121:LEU:HG	2.01	0.43
5:fd:76:LEU:HD23	5:fd:79:GLU:OE2	2.18	0.43
5:fn:76:LEU:HD23	5:fn:79:GLU:OE2	2.18	0.43
5:fr:76:LEU:HD23	5:fr:79:GLU:OE2	2.19	0.43
5:fr:143:ILE:HD12	5:fr:143:ILE:HA	1.92	0.43
1:Aa:152:LEU:HD21	2:Bz:105:SER:HA	2.00	0.43
1:Ab:57:PRO:HD2	1:FR:149:LYS:HD2	2.00	0.43
1:Ac:242:ASN:ND2	1:Ac:245:GLU:HB2	2.33	0.43
1:Ad:31:PRO:HG3	5:Dn:218:TYR:CG	2.54	0.43
1:Ai:100:THR:HG22	1:Ai:105:ILE:HG12	2.01	0.43
1:Au:66:THR:OG1	2:HD:54:SER:HB2	2.18	0.43
1:Av:201:MET:HE3	1:Av:201:MET:HB3	1.96	0.43
1:Ax:84:LEU:HD13	1:UC:57:PRO:HB2	2.00	0.43
1:Ax:257:HIS:CE1	1:Ax:318:GLN:HG3	2.53	0.43
1:BE:181:PHE:HA	1:BE:184:ILE:HD12	2.01	0.43
1:BF:101:SER:OG	1:BF:102:ASP:N	2.52	0.43
1:BP:89:ARG:HH21	1:BP:112:LEU:HD21	1.83	0.43
1:BQ:175:ASP:HA	1:BQ:212:LYS:NZ	2.34	0.43
1:BQ:257:HIS:CE1	1:BQ:318:GLN:HG3	2.54	0.43
1:Bb:158:LEU:HB3	1:Bb:260:LEU:HD21	2.00	0.43
1:Bd:16:ILE:HD12	1:Bd:116:ALA:HB1	2.00	0.43
2:Bp:160:LEU:HD11	4:Cn:75:ARG:HH12	1.84	0.43
2:Br:56:LYS:HD2	4:Co:56:PHE:HD1	1.83	0.43
2:Bx:32:LEU:HD23	2:Bx:32:LEU:HA	1.91	0.43
2:CV:44:ILE:HD12	2:CV:46:SER:HB3	2.00	0.43
2:Cc:75:LEU:HD22	2:Cc:84:LEU:HD13	2.01	0.43
2:Cg:137:LEU:HD11	2:Cg:159:ALA:HB2	2.00	0.43
4:Cs:133:SER:HB3	4:Cs:177:TYR:CE1	2.54	0.43
4:Cz:142:ILE:HG13	4:Cz:152:VAL:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Eh:211:LYS:HG3	5:Eh:214:ARG:NH2	2.34	0.43
1:Ex:192:GLU:HB3	2:LV:36:ILE:HD11	2.01	0.43
1:FL:24:ILE:HG12	1:FL:131:ASN:ND2	2.34	0.43
1:FV:80:ASN:ND2	1:FV:153:PRO:O	2.50	0.43
1:Fe:142:GLN:NE2	1:Fe:147:ASN:OD1	2.50	0.43
1:Fg:308:ARG:H	2:Lh:34:ASN:ND2	2.16	0.43
1:Fr:13:VAL:HA	1:Fr:16:ILE:HG22	2.01	0.43
1:Fv:257:HIS:CE1	1:Fv:318:GLN:HG3	2.54	0.43
1:GD:109:ASN:O	2:HE:24:ASN:ND2	2.49	0.43
1:GF:175:ASP:HA	1:GF:212:LYS:NZ	2.34	0.43
1:GF:258:LYS:HZ2	1:GF:315:ASN:HB2	1.83	0.43
1:GG:41:MET:HE3	1:GG:82:LEU:HD12	2.00	0.43
1:GQ:28:TRP:O	1:GQ:262:TYR:OH	2.29	0.43
2:GV:166:LEU:HD11	2:GV:172:ILE:HD13	2.01	0.43
2:Gg:56:LYS:HD2	4:Hd:56:PHE:HD1	1.83	0.43
2:Gm:75:LEU:HD22	2:Gm:84:LEU:HD13	2.01	0.43
2:HD:75:LEU:HD22	2:HD:84:LEU:HD13	2.01	0.43
2:HK:44:ILE:HD12	2:HK:46:SER:HB3	2.00	0.43
2:HT:167:THR:HG22	2:HT:168:GLU:H	1.84	0.43
5:JH:211:LYS:HG3	5:JH:214:ARG:HH21	1.83	0.43
1:Je:112:LEU:HD12	1:Je:112:LEU:HA	1.92	0.43
1:Jm:142:GLN:HA	2:LP:40:ASP:OD1	2.18	0.43
1:Ju:162:PRO:HG2	2:LN:31:LEU:HD11	2.00	0.43
1:Jv:205:VAL:HG12	1:Jv:259:ILE:HG23	2.01	0.43
1:KC:196:GLU:HB2	1:KC:268:LEU:HD11	1.99	0.43
1:KE:96:GLU:O	1:KE:100:THR:HG23	2.18	0.43
1:KH:31:PRO:HG3	5:NR:218:TYR:CG	2.54	0.43
1:KP:257:HIS:HB3	1:KP:316:ILE:HB	1.99	0.43
1:KU:49:TRP:CE3	1:KU:74:SER:HB3	2.54	0.43
1:KV:205:VAL:HG12	1:KV:259:ILE:HG23	2.01	0.43
1:KW:197:PHE:HD2	1:KW:243:ASN:HB2	1.84	0.43
1:KZ:24:ILE:HG12	1:KZ:131:ASN:ND2	2.34	0.43
1:Kg:178:ASP:OD1	1:Kg:178:ASP:N	2.52	0.43
1:Ki:259:ILE:HB	1:Ki:314:VAL:HB	2.01	0.43
1:Ko:57:PRO:HB2	1:Kr:84:LEU:HD13	2.01	0.43
1:Kq:296:TYR:HE2	1:Ks:67:ILE:HG13	1.83	0.43
1:Kr:49:TRP:CZ3	1:Kr:74:SER:HB3	2.54	0.43
1:LA:288:ASP:OD1	1:LA:289:SER:N	2.44	0.43
1:LH:49:TRP:CH2	1:LH:74:SER:HB3	2.54	0.43
2:LU:156:ASN:HB3	2:LU:178:PHE:CZ	2.54	0.43
2:Lt:137:LEU:HD11	2:Lt:159:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Lu:137:LEU:HB3	2:Lu:145:LEU:HD22	2.01	0.43
4:Mf:23:LYS:N	4:Mf:67:TYR:OH	2.52	0.43
5:OL:211:LYS:HG3	5:OL:214:ARG:NH2	2.34	0.43
1:OY:79:LEU:HD23	1:OY:79:LEU:HA	1.91	0.43
1:OZ:96:GLU:O	1:OZ:100:THR:HG23	2.19	0.43
1:OZ:152:LEU:HD21	2:QE:105:SER:HA	1.99	0.43
1:Oh:87:LYS:NZ	2:QH:53:THR:O	2.41	0.43
1:Ol:283:GLU:HB2	5:Rv:199:PHE:CD2	2.54	0.43
1:Om:87:LYS:HE2	1:Om:296:TYR:OH	2.18	0.43
1:Op:24:ILE:HG12	1:Op:131:ASN:ND2	2.34	0.43
1:Op:49:TRP:CE3	1:Op:74:SER:HB3	2.54	0.43
1:Ov:163:GLU:HB2	2:QU:31:LEU:HD13	2.00	0.43
1:Ow:8:TYR:CG	1:Ow:93:GLN:HG3	2.53	0.43
1:PM:113:LEU:HD23	1:PM:117:GLN:HB2	2.00	0.43
1:PS:143:LYS:HA	2:Ql:39:ARG:HE	1.84	0.43
1:PW:87:LYS:NZ	4:RV:53:THR:O	2.41	0.43
1:PX:259:ILE:HB	1:PX:314:VAL:HB	2.01	0.43
1:PY:272:LYS:N	1:PY:303:GLY:O	2.37	0.43
1:PZ:257:HIS:CE1	1:PZ:318:GLN:HG3	2.54	0.43
1:Pa:16:ILE:HD12	1:Pa:116:ALA:HB1	2.00	0.43
1:Pa:109:ASN:O	2:Qq:24:ASN:ND2	2.51	0.43
1:Pf:278:LEU:HD12	5:Sp:210:TYR:CG	2.53	0.43
1:Pj:286:ASP:HB2	1:Pj:294:HIS:HB2	2.01	0.43
1:Pv:41:MET:HE3	1:Pv:82:LEU:HD12	2.01	0.43
2:QJ:156:ASN:HB3	2:QJ:178:PHE:CZ	2.54	0.43
4:RZ:43:VAL:O	4:RZ:43:VAL:HG13	2.18	0.43
4:Rb:144:ASN:HD21	4:Rb:148:ALA:HB3	1.83	0.43
5:TA:211:LYS:HG3	5:TA:214:ARG:NH2	2.34	0.43
1:TS:261:ILE:HD12	1:TS:312:LEU:HD23	2.00	0.43
1:TV:96:GLU:O	1:TV:100:THR:HG23	2.19	0.43
1:TW:54:ASN:ND2	1:TW:69:THR:O	2.48	0.43
1:TZ:165:ILE:HD13	1:TZ:191:LEU:HD23	2.00	0.43
1:Th:63:GLU:HG2	2:VE:59:ILE:HD11	2.01	0.43
1:To:132:HIS:HA	1:To:254:LEU:HD13	1.99	0.43
1:UI:282:ASN:HB3	1:UI:296:TYR:HB2	2.01	0.43
1:UM:87:LYS:NZ	2:Vd:53:THR:O	2.34	0.43
1:UO:257:HIS:CE1	1:UO:318:GLN:HG3	2.54	0.43
1:UT:96:GLU:O	1:UT:100:THR:HG23	2.19	0.43
1:UW:272:LYS:N	1:UW:303:GLY:O	2.40	0.43
1:Ub:26:TYR:O	5:Xl:218:TYR:OH	2.35	0.43
1:Ui:166:LYS:HE2	1:Ui:166:LYS:HB3	1.90	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ul:159:LEU:HD12	1:Ul:260:LEU:HD13	2.01	0.43
1:Ul:178:ASP:N	1:Ul:178:ASP:OD1	2.51	0.43
2:VJ:129:ASN:OD1	2:VJ:130:GLY:N	2.52	0.43
2:Vh:120:TYR:CE1	2:Vh:174:LEU:HB2	2.54	0.43
2:Vl:133:PRO:HG3	2:Vl:161:SER:HA	2.00	0.43
2:Vl:157:ALA:HB2	2:Vl:177:VAL:HG22	2.00	0.43
2:Vm:167:THR:HG22	2:Vm:168:GLU:H	1.84	0.43
4:WO:37:GLU:O	4:WO:41:LYS:HD2	2.19	0.43
5:Xa:211:LYS:HG3	5:Xa:214:ARG:NH2	2.34	0.43
6:YD:320:ASN:HB3	6:YD:368:GLN:HE22	1.83	0.43
6:YI:73:TYR:CE2	6:YI:150:ASN:HB2	2.54	0.43
6:YI:290:GLU:O	6:YI:294:LEU:HG	2.19	0.43
5:YM:86:ILE:HD13	5:YM:118:ARG:HE	1.84	0.43
5:YQ:63:LEU:HD11	5:Yg:145:GLY:HA3	2.00	0.43
5:YS:77:LEU:O	5:YS:81:GLU:HG2	2.17	0.43
5:YX:110:LEU:HD21	5:YY:81:GLU:HB2	2.01	0.43
5:YZ:59:ILE:HG21	5:ZO:98:PHE:CE1	2.54	0.43
5:Yq:143:ILE:HG22	5:Yq:143:ILE:O	2.18	0.43
5:ZB:72:ILE:O	5:ZB:76:LEU:HG	2.19	0.43
5:ZE:79:GLU:O	5:ZE:83:ILE:HG12	2.19	0.43
5:ZG:143:ILE:HG22	5:ZG:143:ILE:O	2.18	0.43
5:ZS:72:ILE:O	5:ZS:76:LEU:HG	2.19	0.43
5:ZY:118:ARG:O	5:ZY:122:VAL:HG23	2.19	0.43
5:Zc:95:SER:OG	5:Zc:96:ASN:N	2.52	0.43
5:Zc:140:ILE:HG22	5:Zc:140:ILE:O	2.19	0.43
5:Zg:131:ILE:HD13	5:Zg:140:ILE:HD11	2.00	0.43
5:Zg:140:ILE:HG22	5:Zg:140:ILE:O	2.19	0.43
5:Zo:72:ILE:O	5:Zo:76:LEU:HG	2.18	0.43
5:Zq:57:GLU:HA	5:Zq:60:THR:HG22	2.01	0.43
5:Zq:86:ILE:HD11	5:Zq:118:ARG:HE	1.84	0.43
5:aE:72:ILE:O	5:aE:76:LEU:HG	2.18	0.43
5:aQ:72:ILE:O	5:aQ:76:LEU:HG	2.18	0.43
5:aU:75:GLN:O	5:aU:79:GLU:HG2	2.18	0.43
5:aU:94:LEU:HD11	5:aU:121:LEU:HG	2.00	0.43
5:aW:75:GLN:O	5:aW:79:GLU:HG2	2.18	0.43
5:ac:72:ILE:O	5:ac:76:LEU:HG	2.18	0.43
5:ad:118:ARG:O	5:ad:122:VAL:HG23	2.18	0.43
5:at:122:VAL:HG11	5:at:151:LEU:HD13	1.99	0.43
5:bD:76:LEU:HD23	5:bD:79:GLU:OE2	2.19	0.43
5:bE:79:GLU:O	5:bE:83:ILE:HG12	2.18	0.43
5:bF:76:LEU:HD23	5:bF:79:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bH:76:LEU:HD23	5:bH:79:GLU:OE2	2.19	0.43
5:bH:122:VAL:HG11	5:bH:151:LEU:HD13	2.00	0.43
5:ba:72:ILE:O	5:ba:76:LEU:HG	2.18	0.43
5:be:111:LYS:HZ2	5:bh:74:LYS:HE3	1.83	0.43
5:bi:72:ILE:O	5:bi:76:LEU:HG	2.18	0.43
5:bo:62:GLU:OE1	5:cU:97:HIS:NE2	2.52	0.43
5:bp:76:LEU:HD23	5:bp:79:GLU:OE2	2.19	0.43
5:bu:98:PHE:HB3	5:bu:117:GLN:HE22	1.84	0.43
5:by:99:ASN:O	5:by:103:LEU:HG	2.19	0.43
5:bz:118:ARG:O	5:bz:122:VAL:HG23	2.18	0.43
5:bz:122:VAL:HG11	5:bz:151:LEU:HD13	2.00	0.43
5:cF:118:ARG:O	5:cF:122:VAL:HG23	2.18	0.43
5:cG:75:GLN:O	5:cG:79:GLU:HG2	2.18	0.43
5:cI:57:GLU:HA	5:cI:60:THR:HG22	2.01	0.43
5:cI:111:LYS:HZ2	5:cL:74:LYS:HE3	1.83	0.43
5:cK:57:GLU:HA	5:cK:60:THR:HG22	2.01	0.43
5:cK:113:ILE:O	5:cK:117:GLN:HG2	2.18	0.43
5:cL:76:LEU:HD23	5:cL:79:GLU:OE2	2.19	0.43
5:cM:99:ASN:HB3	5:cM:102:VAL:HG22	2.01	0.43
5:cQ:99:ASN:HB3	5:cQ:102:VAL:HG22	2.00	0.43
5:cW:72:ILE:O	5:cW:76:LEU:HG	2.19	0.43
5:cZ:76:LEU:HD23	5:cZ:79:GLU:OE2	2.19	0.43
5:cc:153:SER:HB2	5:cd:133:ALA:HB1	2.00	0.43
5:cd:122:VAL:HG11	5:cd:151:LEU:HD13	2.00	0.43
5:ce:72:ILE:O	5:ce:76:LEU:HG	2.18	0.43
5:cf:122:VAL:HG11	5:cf:151:LEU:HD13	1.99	0.43
5:cm:57:GLU:HA	5:cm:60:THR:HG22	2.01	0.43
5:co:79:GLU:O	5:co:83:ILE:HG12	2.17	0.43
5:cv:76:LEU:HD23	5:cv:79:GLU:OE2	2.19	0.43
5:dI:79:GLU:O	5:dI:83:ILE:HG12	2.18	0.43
5:dM:99:ASN:HB3	5:dM:102:VAL:HG22	2.01	0.43
5:dO:75:GLN:O	5:dO:79:GLU:HG2	2.18	0.43
5:dS:72:ILE:O	5:dS:76:LEU:HG	2.19	0.43
5:dV:76:LEU:HD23	5:dV:79:GLU:OE2	2.19	0.43
5:dW:72:ILE:O	5:dW:76:LEU:HG	2.19	0.43
5:df:76:LEU:HD23	5:df:79:GLU:OE2	2.19	0.43
5:dk:79:GLU:O	5:dk:83:ILE:HG12	2.18	0.43
5:dp:146:GLU:CD	5:eW:58:ARG:HH21	2.26	0.43
5:ds:72:ILE:O	5:ds:76:LEU:HG	2.18	0.43
5:du:94:LEU:HD11	5:du:121:LEU:HG	2.01	0.43
5:dx:136:LYS:HB2	5:dx:136:LYS:HE3	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eA:99:ASN:HB3	5:eA:102:VAL:HG22	2.01	0.43
5:eC:75:GLN:O	5:eC:79:GLU:HG2	2.18	0.43
5:eC:79:GLU:O	5:eC:83:ILE:HG12	2.18	0.43
5:eD:76:LEU:HD23	5:eD:79:GLU:OE2	2.19	0.43
5:eG:75:GLN:O	5:eG:79:GLU:HG2	2.18	0.43
5:eI:136:LYS:HZ1	5:eq:55:ILE:HB	1.84	0.43
5:eK:79:GLU:O	5:eK:83:ILE:HG12	2.18	0.43
5:eL:76:LEU:HD23	5:eL:79:GLU:OE2	2.19	0.43
5:eO:94:LEU:HD11	5:eO:121:LEU:HG	2.00	0.43
5:eO:99:ASN:HB3	5:eO:102:VAL:HG22	2.01	0.43
5:eQ:99:ASN:HB3	5:eQ:102:VAL:HG22	2.01	0.43
5:eS:113:ILE:O	5:eS:117:GLN:HG2	2.19	0.43
5:eT:76:LEU:HD23	5:eT:79:GLU:OE2	2.18	0.43
5:ec:113:ILE:O	5:ec:117:GLN:HG2	2.18	0.43
5:eq:72:ILE:O	5:eq:76:LEU:HG	2.18	0.43
5:ex:76:LEU:HD23	5:ex:79:GLU:OE2	2.19	0.43
5:fA:72:ILE:O	5:fA:76:LEU:HG	2.18	0.43
5:fL:122:VAL:HG11	5:fL:151:LEU:HD13	1.99	0.43
5:fN:122:VAL:HG11	5:fN:151:LEU:HD13	1.99	0.43
5:fO:72:ILE:O	5:fO:76:LEU:HG	2.19	0.43
5:fW:94:LEU:HD11	5:fW:121:LEU:HG	2.00	0.43
5:ft:76:LEU:HD23	5:ft:79:GLU:OE2	2.19	0.43
5:fv:112:ASP:OD1	5:fv:115:GLN:NE2	2.49	0.43
1:AA:66:THR:HG22	2:GU:52:CYS:SG	2.59	0.43
1:AB:65:ASN:ND2	2:Up:57:ASP:O	2.52	0.43
1:AG:133:PHE:O	1:AG:137:GLY:N	2.45	0.43
1:AI:196:GLU:OE1	1:AI:265:ASN:ND2	2.51	0.43
1:AK:201:MET:HE3	1:AK:201:MET:HB3	1.97	0.43
1:AU:85:GLN:HB3	1:Aa:60:ILE:HD11	2.01	0.43
1:Aa:169:VAL:HB	1:Aa:316:ILE:HA	2.00	0.43
1:Ac:13:VAL:HG11	1:Ac:281:PRO:HG2	2.01	0.43
1:Ah:49:TRP:CE3	1:Ah:74:SER:HB3	2.53	0.43
1:Ai:135:LEU:HD21	1:Ai:255:LEU:HG	2.01	0.43
1:Ar:57:PRO:HB2	1:FW:84:LEU:HB3	2.01	0.43
1:BF:59:THR:O	2:Ce:61:ASN:ND2	2.52	0.43
1:BI:52:PHE:HB3	4:Hu:41:LYS:HE2	2.01	0.43
1:BK:57:PRO:HB2	1:BN:84:LEU:HD13	2.01	0.43
1:BQ:239:LYS:HA	1:BQ:242:ASN:OD1	2.19	0.43
1:BU:272:LYS:N	1:BU:303:GLY:O	2.38	0.43
1:BX:26:TYR:O	5:Eh:218:TYR:OH	2.30	0.43
1:Ba:211:LEU:HD23	1:Ba:211:LEU:HA	1.88	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bn:140:ASN:ND2	2:Bn:144:GLU:HB2	2.34	0.43
2:Bu:133:PRO:HG3	2:Bu:161:SER:HA	2.00	0.43
2:CC:155:VAL:HG12	2:CC:178:PHE:HZ	1.82	0.43
2:CG:140:ASN:HD21	2:CG:144:GLU:HB2	1.83	0.43
2:Ch:114:THR:O	2:Ci:114:THR:HB	2.18	0.43
4:DI:43:VAL:O	4:DI:43:VAL:HG13	2.18	0.43
1:Ep:66:THR:HG22	2:LJ:52:CYS:SG	2.59	0.43
1:Ep:152:LEU:HD21	2:GV:105:SER:HA	2.00	0.43
1:Ep:194:GLY:HA3	2:LJ:36:ILE:HG23	2.01	0.43
1:Ex:142:GLN:HA	2:Ga:40:ASP:OD1	2.18	0.43
1:FH:24:ILE:HG12	1:FH:131:ASN:ND2	2.34	0.43
1:FO:63:GLU:HG2	2:Gl:59:ILE:HD11	2.01	0.43
1:FS:31:PRO:HG3	5:Ic:218:TYR:CG	2.54	0.43
1:FV:132:HIS:HA	1:FV:254:LEU:HD13	1.99	0.43
1:Fg:57:PRO:HB2	1:KL:84:LEU:HB3	2.01	0.43
1:Fi:196:GLU:HB3	1:Fi:265:ASN:ND2	2.34	0.43
1:Fj:28:TRP:CZ3	1:Fj:135:LEU:HB2	2.53	0.43
1:Fl:184:ILE:HG12	1:Fl:314:VAL:HG21	2.00	0.43
1:Fn:290:THR:HG22	1:Fz:60:ILE:HG23	2.01	0.43
1:Fo:143:LYS:HA	2:HH:39:ARG:HE	1.84	0.43
1:Fp:175:ASP:HA	1:Fp:212:LYS:NZ	2.33	0.43
1:GD:178:ASP:OD1	1:GD:178:ASP:N	2.52	0.43
1:GK:20:VAL:HG23	5:JU:213:ARG:HH22	1.83	0.43
1:GL:25:MET:HE1	1:GL:130:ILE:HG22	2.01	0.43
1:GO:163:GLU:HB2	2:Gm:31:LEU:HD13	2.01	0.43
1:GT:24:ILE:HG12	1:GT:131:ASN:ND2	2.33	0.43
2:Gc:140:ASN:HD21	2:Gc:144:GLU:HB2	1.83	0.43
2:Ge:75:LEU:HD22	2:Ge:84:LEU:HD13	1.99	0.43
2:Gi:120:TYR:CE1	2:Gi:174:LEU:HB2	2.54	0.43
2:Gq:129:ASN:OD1	2:Gq:130:GLY:N	2.52	0.43
2:HE:56:LYS:HD2	2:HF:56:LYS:HA	2.01	0.43
2:HN:156:ASN:HB3	2:HN:178:PHE:CZ	2.54	0.43
4:Hk:149:LEU:HD13	4:Hk:181:VAL:HG21	2.01	0.43
4:Hm:65:LEU:HD12	4:Hm:92:HIS:CE1	2.54	0.43
1:Js:57:PRO:HG2	1:Jw:84:LEU:HD13	2.01	0.43
1:Jw:24:ILE:HG12	1:Jw:131:ASN:ND2	2.34	0.43
1:Jz:43:TYR:CE1	1:Jz:45:LYS:HE3	2.53	0.43
1:KT:79:LEU:HD11	1:KT:305:LEU:HB2	2.01	0.43
1:Kc:290:THR:HG22	1:Ko:60:ILE:HG23	2.01	0.43
1:Kl:109:ASN:O	2:MB:24:ASN:ND2	2.51	0.43
1:Ku:286:ASP:HB2	1:Ku:294:HIS:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kv:41:MET:HE3	1:Kv:82:LEU:HD12	2.00	0.43
1:Kx:96:GLU:O	1:Kx:100:THR:HG23	2.19	0.43
1:Kz:147:ASN:H	4:Ml:88:HIS:HD2	1.67	0.43
2:LL:61:ASN:ND2	1:OU:59:THR:O	2.52	0.43
2:Lq:166:LEU:HB2	2:Lq:170:LEU:HD23	2.00	0.43
2:MD:37:ASP:O	2:MD:41:GLN:NE2	2.51	0.43
4:MT:77:ILE:HG12	4:MT:91:PRO:HB3	1.99	0.43
4:MY:141:LEU:HD11	4:MY:165:ALA:HB2	2.01	0.43
4:Mb:47:ALA:O	4:Mb:70:LYS:NZ	2.36	0.43
1:OY:40:GLN:HG2	1:OY:83:LYS:HD2	2.01	0.43
1:Oa:108:ILE:HG22	4:RE:27:HIS:HE1	1.84	0.43
1:Ob:142:GLN:HA	2:QE:40:ASP:OD1	2.18	0.43
1:PC:96:GLU:O	1:PC:100:THR:HG23	2.19	0.43
1:PE:57:PRO:HA	1:PP:86:TYR:HE1	1.84	0.43
1:PL:197:PHE:HD2	1:PL:243:ASN:HB2	1.84	0.43
1:PS:66:THR:HG22	4:RT:52:ARG:HB3	2.01	0.43
1:PU:288:ASP:OD1	1:PU:289:SER:N	2.47	0.43
1:PY:101:SER:OG	1:PY:102:ASP:N	2.52	0.43
1:Pb:165:ILE:HD13	1:Pb:191:LEU:HD23	2.01	0.43
1:Pe:129:LEU:HD11	1:Pe:139:VAL:HG13	2.01	0.43
1:Ph:49:TRP:CH2	1:Ph:74:SER:HB3	2.54	0.43
1:Pj:239:LYS:NZ	1:Pj:245:GLU:O	2.49	0.43
1:Po:278:LEU:HD12	5:Sy:210:TYR:CG	2.54	0.43
1:Ps:49:TRP:CH2	1:Ps:74:SER:HB3	2.54	0.43
1:Pt:16:ILE:HD12	1:Pt:116:ALA:HB1	2.01	0.43
1:Pu:181:PHE:CZ	1:Pu:234:LEU:HB2	2.54	0.43
2:QD:140:ASN:ND2	2:QD:144:GLU:HB2	2.34	0.43
2:QQ:75:LEU:HD22	2:QQ:84:LEU:HD13	2.01	0.43
2:Qz:137:LEU:HD11	2:Qz:159:ALA:HB2	2.00	0.43
4:Rc:43:VAL:O	4:Rc:43:VAL:HG13	2.19	0.43
1:TN:290:THR:HG22	1:TO:60:ILE:HG23	2.01	0.43
1:Td:196:GLU:HB3	1:Td:265:ASN:HD22	1.84	0.43
1:Te:24:ILE:HG12	1:Te:131:ASN:ND2	2.34	0.43
1:Tk:13:VAL:HG11	1:Tk:281:PRO:HG2	2.01	0.43
1:Tq:107:ASP:HB3	1:Tq:112:LEU:HB2	2.01	0.43
1:Tr:96:GLU:O	1:Tr:100:THR:HG23	2.19	0.43
1:Tv:49:TRP:CE3	1:Tv:74:SER:HB3	2.53	0.43
1:UC:256:LYS:HG2	1:UC:257:HIS:CD2	2.54	0.43
1:UE:184:ILE:HG12	1:UE:314:VAL:HG21	2.00	0.43
1:UG:175:ASP:HA	1:UG:212:LYS:NZ	2.34	0.43
1:UG:197:PHE:HD1	1:UG:243:ASN:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UG:239:LYS:NZ	1:UG:245:GLU:O	2.43	0.43
1:UK:163:GLU:HB3	1:UK:308:ARG:HG3	2.01	0.43
1:UN:59:THR:O	2:Vm:61:ASN:ND2	2.52	0.43
1:UU:28:TRP:O	1:UU:262:TYR:OH	2.30	0.43
1:UU:278:LEU:HD12	5:Xe:210:TYR:CG	2.53	0.43
1:UZ:57:PRO:HB2	1:Uc:84:LEU:HB3	2.00	0.43
1:Ud:20:VAL:HG23	5:Xn:213:ARG:HH22	1.83	0.43
1:Uf:178:ASP:OD1	1:Uf:178:ASP:N	2.52	0.43
1:Uh:49:TRP:CH2	1:Uh:74:SER:HB3	2.54	0.43
1:Uh:163:GLU:HB2	2:VF:31:LEU:HD13	2.01	0.43
2:Ux:160:LEU:HD11	4:Vv:75:ARG:HH12	1.84	0.43
2:VY:125:LYS:HD2	2:VY:169:ASP:HA	1.99	0.43
2:Va:156:ASN:HB3	2:Va:178:PHE:CZ	2.54	0.43
2:Vh:37:ASP:O	2:Vh:41:GLN:NE2	2.51	0.43
2:Vj:125:LYS:HD2	2:Vj:169:ASP:HA	2.00	0.43
4:WR:43:VAL:O	4:WR:43:VAL:HG13	2.19	0.43
6:YC:305:GLU:OE1	6:YC:308:THR:N	2.42	0.43
6:YI:305:GLU:OE1	6:YI:308:THR:N	2.43	0.43
5:YN:88:THR:HA	5:YN:91:LYS:HD2	2.00	0.43
5:YQ:119:ARG:HG2	5:YQ:140:ILE:HG22	1.99	0.43
5:YS:76:LEU:O	5:YS:79:GLU:HG2	2.19	0.43
5:Yc:75:GLN:O	5:Yc:79:GLU:HG2	2.18	0.43
5:Yy:113:ILE:O	5:Yy:117:GLN:HG2	2.18	0.43
5:ZI:113:ILE:O	5:ZI:117:GLN:HG2	2.18	0.43
5:ZK:143:ILE:HG22	5:ZK:143:ILE:O	2.18	0.43
5:ZP:130:GLN:OE1	5:ZP:130:GLN:N	2.52	0.43
5:Zl:122:VAL:HG11	5:Zl:151:LEU:HD13	1.99	0.43
5:Zv:76:LEU:HD23	5:Zv:79:GLU:OE2	2.19	0.43
5:Zy:79:GLU:O	5:Zy:83:ILE:HG12	2.18	0.43
5:aS:99:ASN:HB3	5:aS:102:VAL:HG22	2.01	0.43
5:aS:113:ILE:O	5:aS:117:GLN:HG2	2.17	0.43
5:aU:72:ILE:O	5:aU:76:LEU:HG	2.19	0.43
5:aW:94:LEU:HD11	5:aW:121:LEU:HG	2.01	0.43
5:aZ:118:ARG:O	5:aZ:122:VAL:HG23	2.18	0.43
5:ag:99:ASN:O	5:ag:103:LEU:HG	2.19	0.43
5:ay:75:GLN:O	5:ay:79:GLU:HG2	2.18	0.43
5:bE:94:LEU:HD11	5:bE:121:LEU:HG	2.00	0.43
5:bE:111:LYS:HZ2	5:bH:74:LYS:HE3	1.84	0.43
5:bG:79:GLU:O	5:bG:83:ILE:HG12	2.18	0.43
5:bK:98:PHE:HB3	5:bK:117:GLN:HE22	1.84	0.43
5:bQ:94:LEU:HD11	5:bQ:121:LEU:HG	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bT:112:ASP:OD1	5:bT:115:GLN:NE2	2.49	0.43
5:bU:72:ILE:O	5:bU:76:LEU:HG	2.18	0.43
5:be:99:ASN:O	5:be:103:LEU:HG	2.19	0.43
5:bm:57:GLU:HA	5:bm:60:THR:HG22	1.99	0.43
5:cA:99:ASN:O	5:cA:103:LEU:HG	2.18	0.43
5:cK:99:ASN:HB3	5:cK:102:VAL:HG22	2.01	0.43
5:cS:72:ILE:O	5:cS:76:LEU:HG	2.18	0.43
5:cS:99:ASN:HB3	5:cS:102:VAL:HG22	2.00	0.43
5:cT:76:LEU:HD23	5:cT:79:GLU:OE2	2.19	0.43
5:cV:118:ARG:O	5:cV:122:VAL:HG23	2.18	0.43
5:cl:143:ILE:HD12	5:cl:143:ILE:HA	1.92	0.43
5:cn:118:ARG:O	5:cn:122:VAL:HG23	2.18	0.43
5:cq:57:GLU:HA	5:cq:60:THR:HG22	2.00	0.43
5:dM:57:GLU:HA	5:dM:60:THR:HG22	2.01	0.43
5:dS:99:ASN:HB3	5:dS:102:VAL:HG22	2.01	0.43
5:dT:76:LEU:HD23	5:dT:79:GLU:OE2	2.19	0.43
5:dT:122:VAL:HG11	5:dT:151:LEU:HD13	2.00	0.43
5:dW:79:GLU:O	5:dW:83:ILE:HG12	2.18	0.43
5:dW:99:ASN:HB3	5:dW:102:VAL:HG22	2.01	0.43
5:dc:72:ILE:O	5:dc:76:LEU:HG	2.18	0.43
5:dg:79:GLU:O	5:dg:83:ILE:HG12	2.18	0.43
5:dp:118:ARG:O	5:dp:122:VAL:HG23	2.18	0.43
5:ds:122:VAL:HG11	5:ds:151:LEU:HD13	2.00	0.43
5:du:75:GLN:O	5:du:79:GLU:HG2	2.19	0.43
5:dy:63:LEU:HD11	5:eh:136:LYS:HD2	2.01	0.43
5:eA:63:LEU:HD11	5:ej:136:LYS:HD2	2.00	0.43
5:eC:59:ILE:O	5:eC:63:LEU:HD23	2.18	0.43
5:eE:94:LEU:HD11	5:eE:121:LEU:HG	2.01	0.43
5:eK:56:ASN:HD22	5:eM:145:GLY:HA3	1.83	0.43
5:eK:75:GLN:O	5:eK:79:GLU:HG2	2.18	0.43
5:ec:99:ASN:HB3	5:ec:102:VAL:HG22	2.00	0.43
5:em:99:ASN:HB3	5:em:102:VAL:HG22	2.01	0.43
5:eq:113:ILE:O	5:eq:117:GLN:HG2	2.19	0.43
5:eu:94:LEU:HD11	5:eu:121:LEU:HG	1.99	0.43
5:ez:118:ARG:O	5:ez:122:VAL:HG23	2.18	0.43
5:fC:99:ASN:HB3	5:fC:102:VAL:HG22	2.01	0.43
5:fL:76:LEU:HD23	5:fL:79:GLU:OE2	2.18	0.43
5:fc:94:LEU:HD11	5:fc:121:LEU:HG	2.00	0.43
5:fl:118:ARG:O	5:fl:122:VAL:HG23	2.18	0.43
5:fw:72:ILE:O	5:fw:76:LEU:HG	2.19	0.43
1:AB:36:ASP:CG	5:DL:214:ARG:HH22	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:306:ALA:O	4:Cp:31:LEU:HB2	2.18	0.43
1:AS:66:THR:HG22	2:Bz:52:CYS:HB3	2.01	0.43
1:AS:283:GLU:HB2	5:Dc:199:PHE:CD2	2.54	0.43
1:Ae:255:LEU:HD23	1:Ae:255:LEU:HA	1.91	0.43
1:Ap:133:PHE:O	1:Ap:137:GLY:N	2.42	0.43
1:Ar:80:ASN:ND2	1:Ar:153:PRO:O	2.51	0.43
1:As:197:PHE:HD2	1:As:243:ASN:HB2	1.84	0.43
1:At:113:LEU:HD23	1:At:117:GLN:HB2	2.00	0.43
1:Av:24:ILE:HG12	1:Av:131:ASN:ND2	2.34	0.43
1:BE:259:ILE:HB	1:BE:314:VAL:HB	2.00	0.43
1:BF:65:ASN:HB2	2:Ce:59:ILE:H	1.84	0.43
1:BH:16:ILE:HD12	1:BH:116:ALA:HB1	2.00	0.43
1:BJ:107:ASP:OD2	1:BJ:110:ASN:ND2	2.42	0.43
1:BM:296:TYR:HE2	1:BO:67:ILE:HG13	1.83	0.43
1:BN:49:TRP:CZ3	1:BN:74:SER:HB3	2.54	0.43
1:BQ:16:ILE:HD12	1:BQ:116:ALA:HB1	2.01	0.43
1:BQ:84:LEU:HD13	1:Ba:57:PRO:HB2	2.00	0.43
1:BR:13:VAL:HA	1:BR:16:ILE:HG22	2.00	0.43
1:BT:96:GLU:O	1:BT:100:THR:HG23	2.19	0.43
1:BU:24:ILE:HG12	1:BU:131:ASN:ND2	2.33	0.43
1:BV:278:LEU:HD12	5:Ef:210:TYR:CG	2.54	0.43
2:CN:116:ASN:HB3	2:CO:58:LYS:NZ	2.34	0.43
2:CN:167:THR:HG22	2:CN:168:GLU:N	2.33	0.43
2:CO:75:LEU:HD22	2:CO:84:LEU:HD13	2.01	0.43
2:CQ:156:ASN:HB3	2:CQ:178:PHE:CZ	2.53	0.43
4:Cx:65:LEU:HD12	4:Cx:92:HIS:CE1	2.54	0.43
5:EM:211:LYS:HG3	5:EM:214:ARG:NH2	2.34	0.43
1:Eu:40:GLN:HG2	1:Eu:83:LYS:HD2	2.00	0.43
1:FE:80:ASN:ND2	1:FE:153:PRO:O	2.52	0.43
1:FK:196:GLU:HB3	1:FK:265:ASN:HD22	1.84	0.43
1:FL:49:TRP:CE3	1:FL:74:SER:HB3	2.54	0.43
1:FS:239:LYS:HA	1:FS:242:ASN:OD1	2.18	0.43
1:Fd:196:GLU:HB3	1:Fd:265:ASN:HD22	1.84	0.43
1:Fj:43:TYR:HB2	1:Fj:78:ARG:HG3	2.00	0.43
1:Fr:57:PRO:HB2	1:Fu:84:LEU:HB3	2.01	0.43
1:Fr:257:HIS:HB2	1:Fr:316:ILE:HB	2.00	0.43
1:Fy:286:ASP:HB2	1:Fy:294:HIS:HB2	2.01	0.43
1:Fz:57:PRO:HB2	1:GC:84:LEU:HD13	2.01	0.43
1:Fz:152:LEU:HD21	2:HP:105:SER:HA	2.00	0.43
1:GF:257:HIS:CE1	1:GF:318:GLN:HG3	2.54	0.43
1:GJ:79:LEU:HD11	1:GJ:305:LEU:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GR:96:GLU:O	1:GR:100:THR:HG23	2.19	0.43
1:GR:317:LYS:HE2	1:GR:319:SER:HB2	2.01	0.43
2:Ga:69:TYR:CE2	2:Ga:70:LYS:HG2	2.54	0.43
2:Gf:156:ASN:HB3	2:Gf:178:PHE:CZ	2.54	0.43
2:Gj:133:PRO:HG3	2:Gj:161:SER:HA	2.00	0.43
2:HC:116:ASN:HB3	2:HD:58:LYS:NZ	2.34	0.43
2:HM:165:LYS:HE3	2:HM:168:GLU:HA	2.00	0.43
2:HO:120:TYR:CE1	2:HO:174:LEU:HB2	2.54	0.43
2:HR:75:LEU:HD22	2:HR:84:LEU:HD13	2.01	0.43
4:Hb:171:GLN:HE21	4:Hb:174:ASN:HA	1.84	0.43
5:JH:211:LYS:HG3	5:JH:214:ARG:NH2	2.34	0.43
5:JW:211:LYS:HG3	5:JW:214:ARG:NH2	2.34	0.43
1:Jj:87:LYS:NZ	2:LN:53:THR:O	2.44	0.43
1:Jt:80:ASN:ND2	1:Jt:153:PRO:O	2.52	0.43
1:KD:201:MET:HE3	1:KD:201:MET:HB3	1.86	0.43
1:KP:57:PRO:HA	1:Ka:86:TYR:HE1	1.84	0.43
1:KT:253:ASN:OD1	1:KT:253:ASN:N	2.52	0.43
1:KY:31:PRO:HG3	5:Ni:218:TYR:CD1	2.53	0.43
1:Kd:89:ARG:HH21	1:Kd:112:LEU:HD21	1.83	0.43
1:Kh:86:TYR:HE1	1:Kk:57:PRO:HA	1.83	0.43
1:Kl:16:ILE:HD12	1:Kl:116:ALA:HB1	2.00	0.43
1:Kn:286:ASP:HB2	1:Kn:294:HIS:HB2	2.01	0.43
1:Kr:157:GLY:N	1:Kr:160:ASN:OD1	2.50	0.43
1:Kv:21:LYS:NZ	1:PU:195:ASP:OD2	2.49	0.43
1:Kv:178:ASP:OD1	1:Kv:178:ASP:N	2.51	0.43
1:Kx:255:LEU:HD22	1:Kx:258:LYS:HB2	2.01	0.43
1:LA:158:LEU:HB3	1:LA:260:LEU:HD21	2.00	0.43
1:LG:166:LYS:HE2	1:LG:313:GLN:OE1	2.19	0.43
2:LN:138:ASN:HD22	2:LN:153:LYS:HE2	1.84	0.43
2:LY:133:PRO:HG3	2:LY:161:SER:HA	2.00	0.43
2:Lf:113:ILE:HD12	2:Lf:113:ILE:HA	1.90	0.43
2:Lr:116:ASN:HB3	2:Ls:58:LYS:NZ	2.34	0.43
2:Lt:56:LYS:HD2	2:Lu:56:LYS:HA	2.01	0.43
2:Lx:23:LYS:N	2:Lx:67:TYR:OH	2.52	0.43
2:ME:100:ASP:HB3	2:ME:109:THR:HB	2.01	0.43
4:MU:43:VAL:O	4:MU:43:VAL:HG13	2.19	0.43
4:MY:64:PHE:CZ	4:MY:108:ILE:HD11	2.54	0.43
1:Ok:205:VAL:HG12	1:Ok:259:ILE:HG23	2.01	0.43
1:Oo:194:GLY:HA3	2:QG:36:ILE:HD12	2.01	0.43
1:Ot:169:VAL:HB	1:Ot:316:ILE:HA	2.00	0.43
1:PI:16:ILE:HD11	1:PI:120:LYS:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PI:89:ARG:HH21	1:PI:112:LEU:HD13	1.83	0.43
1:PN:256:LYS:HG2	1:PN:257:HIS:CD2	2.54	0.43
1:PP:184:ILE:HG12	1:PP:314:VAL:HG21	2.00	0.43
1:PQ:55:ALA:HA	1:Ph:141:ILE:HD13	2.01	0.43
1:PR:175:ASP:HA	1:PR:212:LYS:NZ	2.34	0.43
1:Pb:45:LYS:NZ	4:WN:28:ASP:OD2	2.47	0.43
1:Pd:152:LEU:HD21	2:Qt:105:SER:HA	2.00	0.43
1:Pd:255:LEU:HD22	1:Pd:258:LYS:HB2	1.99	0.43
2:QI:160:LEU:HD11	4:RG:75:ARG:HH12	1.84	0.43
2:QK:137:LEU:HD11	2:QK:159:ALA:HB2	1.99	0.43
2:QL:182:ALA:HB2	4:RI:186:ASN:HB3	2.01	0.43
2:QM:120:TYR:CE1	2:QM:174:LEU:HB2	2.54	0.43
2:Qg:116:ASN:HB3	2:Qh:58:LYS:NZ	2.34	0.43
2:Qj:120:TYR:CE1	2:Qj:174:LEU:HB2	2.54	0.43
2:Qk:30:GLY:O	2:Qk:31:LEU:HD23	2.19	0.43
2:Qk:120:TYR:CE1	2:Qk:174:LEU:HB2	2.54	0.43
2:Qx:167:THR:HG22	2:Qx:168:GLU:H	1.84	0.43
1:TM:66:THR:HG22	2:Ut:52:CYS:HB3	2.00	0.43
1:TX:286:ASP:HB2	1:TX:294:HIS:HB2	2.00	0.43
1:Ta:283:GLU:HB2	5:Wk:199:PHE:CD2	2.54	0.43
1:Tf:212:LYS:HA	1:Tf:215:LYS:HE3	2.00	0.43
1:Tl:8:TYR:CG	1:Tl:93:GLN:HG3	2.53	0.43
1:Tq:100:THR:HG22	1:Tq:105:ILE:HG12	2.01	0.43
1:Ty:49:TRP:CE3	1:Ty:74:SER:HB3	2.54	0.43
1:UH:80:ASN:ND2	1:UH:154:ASN:HB2	2.34	0.43
1:UK:194:GLY:HA3	4:WL:36:ASN:OD1	2.18	0.43
1:UP:66:THR:OG1	4:WL:58:LYS:NZ	2.47	0.43
1:UW:49:TRP:CH2	1:UW:74:SER:HB3	2.54	0.43
1:UZ:57:PRO:HG2	1:Uc:84:LEU:HD13	2.00	0.43
1:Ua:261:ILE:HD12	1:Ua:312:LEU:HD23	2.01	0.43
2:VA:182:ALA:HB2	4:Vx:186:ASN:HB3	2.01	0.43
2:VO:138:ASN:HD22	2:VO:153:LYS:HE2	1.84	0.43
2:VO:140:ASN:HD21	2:VO:144:GLU:HB2	1.83	0.43
2:VU:77:PHE:CE1	2:VU:84:LEU:HD13	2.54	0.43
2:VW:75:LEU:HD22	2:VW:84:LEU:HD13	2.01	0.43
2:VX:137:LEU:HD11	2:VX:159:ALA:HB2	2.01	0.43
2:VY:137:LEU:HB3	2:VY:145:LEU:HD22	2.01	0.43
2:VZ:30:GLY:O	2:VZ:31:LEU:HD23	2.19	0.43
2:VZ:120:TYR:CE1	2:VZ:174:LEU:HB2	2.54	0.43
2:Vb:69:TYR:HE1	2:Vb:100:ASP:HA	1.83	0.43
3:Vr:172:ASN:HB3	3:Vr:175:ILE:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WA:133:SER:HB3	4:WA:177:TYR:CE1	2.54	0.43
4:WC:165:ALA:HA	4:WC:181:VAL:HG12	2.00	0.43
4:WH:142:ILE:HG13	4:WH:152:VAL:HG22	2.01	0.43
4:WM:144:ASN:HD21	4:WM:148:ALA:HB3	1.84	0.43
5:Xp:211:LYS:HG3	5:Xp:214:ARG:NH2	2.34	0.43
6:YA:195:GLU:O	6:YA:199:GLN:HG3	2.19	0.43
6:YD:290:GLU:O	6:YD:294:LEU:HG	2.19	0.43
6:YG:73:TYR:CE2	6:YG:150:ASN:HB2	2.54	0.43
6:YH:73:TYR:CE2	6:YH:150:ASN:HB2	2.54	0.43
5:YK:131:ILE:HD13	5:YK:140:ILE:HD11	1.99	0.43
5:Ya:119:ARG:HG2	5:Ya:140:ILE:HG22	2.01	0.43
5:Ye:118:ARG:O	5:Ye:122:VAL:HG23	2.19	0.43
5:Ye:144:ASP:HA	5:Ye:148:LEU:HD22	2.00	0.43
5:Yg:118:ARG:O	5:Yg:122:VAL:HG23	2.19	0.43
5:Yu:125:PHE:CE1	5:Yu:159:ILE:HD13	2.53	0.43
5:Yv:83:ILE:HG12	5:Yv:114:MET:HG3	2.01	0.43
5:Yv:128:ILE:O	5:Yv:132:LYS:HG2	2.19	0.43
5:Yx:74:LYS:HE3	5:Yy:111:LYS:HE3	2.01	0.43
5:ZA:56:ASN:HD21	5:Zg:141:SER:HB3	1.84	0.43
5:ZD:74:LYS:HE3	5:ZE:111:LYS:NZ	2.34	0.43
5:ZK:55:ILE:CG2	5:ZW:116:ALA:HB1	2.49	0.43
5:ZM:68:GLU:O	5:ZM:72:ILE:HG13	2.19	0.43
5:ZO:57:GLU:HA	5:ZO:60:THR:HG22	2.01	0.43
5:ZZ:118:ARG:O	5:ZZ:122:VAL:HG23	2.18	0.43
5:Zd:118:ARG:O	5:Zd:122:VAL:HG23	2.18	0.43
5:Zd:122:VAL:HG11	5:Zd:151:LEU:HD13	1.99	0.43
5:Zl:76:LEU:HD23	5:Zl:79:GLU:OE2	2.19	0.43
5:Zu:72:ILE:O	5:Zu:76:LEU:HG	2.18	0.43
5:Zv:122:VAL:HG11	5:Zv:151:LEU:HD13	2.00	0.43
5:Zw:79:GLU:O	5:Zw:83:ILE:HG12	2.18	0.43
5:aX:76:LEU:HD23	5:aX:79:GLU:OE2	2.19	0.43
5:aY:72:ILE:O	5:aY:76:LEU:HG	2.19	0.43
5:aY:99:ASN:HB3	5:aY:102:VAL:HG22	2.01	0.43
5:ah:118:ARG:O	5:ah:122:VAL:HG23	2.18	0.43
5:ax:76:LEU:HD23	5:ax:79:GLU:OE2	2.19	0.43
5:bG:94:LEU:HD11	5:bG:121:LEU:HG	2.00	0.43
5:by:72:ILE:O	5:by:76:LEU:HG	2.18	0.43
5:cC:99:ASN:O	5:cC:103:LEU:HG	2.19	0.43
5:cM:111:LYS:HZ2	5:cP:74:LYS:HE3	1.84	0.43
5:cO:55:ILE:HG21	5:cu:116:ALA:HB2	2.00	0.43
5:cO:57:GLU:HA	5:cO:60:THR:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:cY:72:ILE:O	5:cY:76:LEU:HG	2.19	0.43
5:cc:111:LYS:HZ2	5:cf:74:LYS:HE3	1.84	0.43
5:cd:112:ASP:OD1	5:cd:115:GLN:NE2	2.48	0.43
5:cq:55:ILE:HG21	5:dW:116:ALA:HB2	2.01	0.43
5:cr:118:ARG:O	5:cr:122:VAL:HG23	2.18	0.43
5:cs:72:ILE:O	5:cs:76:LEU:HG	2.18	0.43
5:dO:57:GLU:HA	5:dO:60:THR:HG22	2.01	0.43
5:dP:136:LYS:HE3	5:dP:136:LYS:HB2	1.90	0.43
5:db:143:ILE:HD12	5:db:143:ILE:HA	1.91	0.43
5:dg:72:ILE:O	5:dg:76:LEU:HG	2.19	0.43
5:dk:54:SER:HB3	5:dk:56:ASN:OD1	2.18	0.43
5:dt:136:LYS:HB2	5:dt:136:LYS:HE3	1.77	0.43
5:dy:94:LEU:HD11	5:dy:121:LEU:HG	2.01	0.43
5:dz:76:LEU:HD23	5:dz:79:GLU:OE2	2.19	0.43
5:eD:146:GLU:CD	5:ek:58:ARG:HH21	2.26	0.43
5:eS:94:LEU:HD11	5:eS:121:LEU:HG	2.00	0.43
5:eX:112:ASP:OD1	5:eX:115:GLN:NE2	2.49	0.43
5:ed:74:LYS:HE3	5:ee:111:LYS:HZ2	1.84	0.43
5:eq:94:LEU:HD11	5:eq:121:LEU:HG	1.99	0.43
5:eq:153:SER:HB2	5:er:133:ALA:HB1	2.01	0.43
5:es:98:PHE:HD2	5:fY:55:ILE:HD11	1.84	0.43
5:eu:57:GLU:HA	5:eu:60:THR:HG22	2.01	0.43
5:fT:76:LEU:HD23	5:fT:79:GLU:OE2	2.19	0.43
5:fT:122:VAL:HG11	5:fT:151:LEU:HD13	2.00	0.43
5:fU:57:GLU:HA	5:fU:60:THR:HG22	2.01	0.43
5:fb:76:LEU:HD23	5:fb:79:GLU:OE2	2.19	0.43
5:fh:112:ASP:OD1	5:fh:115:GLN:NE2	2.49	0.43
5:fv:122:VAL:HG11	5:fv:151:LEU:HD13	1.99	0.43
1:AG:96:GLU:O	1:AG:100:THR:HG23	2.19	0.42
1:AH:28:TRP:CZ3	1:AH:135:LEU:HB2	2.54	0.42
1:AK:13:VAL:HG11	1:AK:281:PRO:HG2	2.01	0.42
1:AP:80:ASN:ND2	1:AP:153:PRO:O	2.52	0.42
1:AQ:49:TRP:CE3	1:AQ:74:SER:HB3	2.54	0.42
1:AQ:85:GLN:HE21	1:TQ:67:ILE:HD13	1.84	0.42
1:AV:8:TYR:CD2	1:AV:93:GLN:HG3	2.53	0.42
1:AV:13:VAL:HA	1:AV:16:ILE:HG22	2.01	0.42
1:AV:49:TRP:CH2	1:AV:74:SER:HB3	2.54	0.42
1:Aa:307:THR:HG22	2:Bt:32:LEU:HB2	2.01	0.42
1:Ak:67:ILE:HG13	1:Ao:296:TYR:HE2	1.84	0.42
1:At:196:GLU:HB3	1:At:265:ASN:ND2	2.34	0.42
1:Au:28:TRP:CZ3	1:Au:135:LEU:HB2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:66:THR:HG22	2:CM:52:CYS:HB3	2.00	0.42
1:BC:13:VAL:HA	1:BC:16:ILE:HG22	2.01	0.42
1:BD:86:TYR:HE1	1:BG:57:PRO:HA	1.83	0.42
1:BL:96:GLU:O	1:BL:100:THR:HG23	2.19	0.42
1:BR:60:ILE:HG23	1:BT:290:THR:HG22	2.01	0.42
1:BR:178:ASP:OD1	1:BR:178:ASP:N	2.51	0.42
1:BZ:49:TRP:CH2	1:BZ:74:SER:HB3	2.54	0.42
1:Bc:96:GLU:O	1:Bc:100:THR:HG23	2.19	0.42
1:Bc:166:LYS:HE2	1:Bc:313:GLN:OE1	2.19	0.42
1:Bc:317:LYS:HE2	1:Bc:319:SER:HB2	2.01	0.42
2:Bl:69:TYR:CE2	2:Bl:70:LYS:HG2	2.54	0.42
2:Bq:167:THR:HB	2:Bq:170:LEU:HB3	2.01	0.42
2:CC:64:ALA:HB2	2:CC:108:ALA:HB2	2.01	0.42
2:CD:51:VAL:O	1:Tz:69:THR:OG1	2.32	0.42
2:CR:120:TYR:CE1	2:CR:174:LEU:HB2	2.54	0.42
2:CX:107:MET:HE3	1:GB:59:THR:HG21	2.00	0.42
2:CY:133:PRO:HG3	2:CY:161:SER:HA	2.01	0.42
2:Ch:23:LYS:NZ	2:Ch:100:ASP:OD1	2.51	0.42
4:Cr:43:VAL:O	4:Cr:43:VAL:HG13	2.19	0.42
4:Cu:165:ALA:HA	4:Cu:181:VAL:HG12	2.00	0.42
4:DB:43:VAL:O	4:DB:43:VAL:HG13	2.18	0.42
1:Eu:216:PRO:HB2	1:Eu:224:ALA:HB1	2.01	0.42
1:Ev:96:GLU:O	1:Ev:100:THR:HG23	2.19	0.42
1:FI:87:LYS:HE2	1:FI:296:TYR:OH	2.18	0.42
1:FO:110:ASN:ND2	1:GN:62:ASN:OD1	2.52	0.42
1:FP:96:GLU:O	1:FP:100:THR:HG23	2.18	0.42
1:FP:307:THR:HG22	2:Gi:32:LEU:HB2	2.01	0.42
1:Fh:13:VAL:HG11	1:Fh:281:PRO:HG2	2.01	0.42
1:Fi:113:LEU:HD23	1:Fi:117:GLN:HB2	2.00	0.42
1:Fq:33:GLN:HG2	1:Fq:266:SER:HA	2.01	0.42
1:Fw:16:ILE:HD12	1:Fw:116:ALA:HB1	2.00	0.42
1:Fw:107:ASP:OD2	1:Fw:110:ASN:ND2	2.34	0.42
1:Fz:66:THR:HG22	2:HF:52:CYS:HB3	2.01	0.42
1:GA:129:LEU:HD11	1:GA:139:VAL:HG13	2.01	0.42
1:GC:178:ASP:OD1	1:GC:178:ASP:N	2.52	0.42
1:GE:257:HIS:ND1	1:GE:318:GLN:HG3	2.34	0.42
1:GF:84:LEU:HD13	1:GP:57:PRO:HB2	2.00	0.42
1:GG:13:VAL:HA	1:GG:16:ILE:HG22	2.00	0.42
1:GG:57:PRO:HB2	1:GJ:84:LEU:HB3	2.00	0.42
1:GR:41:MET:HE3	1:GR:82:LEU:HD12	2.01	0.42
1:GR:132:HIS:HA	1:GR:254:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GV:69:TYR:CZ	2:GV:70:LYS:HE2	2.54	0.42
2:Gh:182:ALA:HB2	4:He:186:ASN:HB3	2.01	0.42
2:Gj:116:ASN:OD1	2:Gk:58:LYS:HE2	2.19	0.42
2:HH:156:ASN:HB3	2:HH:178:PHE:CZ	2.54	0.42
2:HL:167:THR:HG22	2:HL:168:GLU:H	1.83	0.42
2:HS:157:ALA:HB2	2:HS:177:VAL:HG22	2.00	0.42
4:Hf:10:GLU:O	4:Hf:14:LYS:HG2	2.18	0.42
4:Ho:159:ALA:HB3	4:Ho:187:LYS:HD2	2.01	0.42
4:Hs:166:LEU:HD12	4:Hs:180:LYS:HE2	1.99	0.42
1:Jg:28:TRP:O	1:Jg:262:TYR:OH	2.35	0.42
1:Jm:306:ALA:O	2:QK:31:LEU:HD22	2.18	0.42
1:Jo:196:GLU:HB3	1:Jo:265:ASN:HD22	1.83	0.42
1:Jp:205:VAL:HG12	1:Jp:259:ILE:HG23	2.00	0.42
1:Jw:163:GLU:HB2	2:Ld:31:LEU:CD2	2.49	0.42
1:Jw:240:ALA:HB2	1:KD:214:VAL:HG11	2.01	0.42
1:KD:63:GLU:HG2	2:La:59:ILE:HD11	2.01	0.42
1:KG:178:ASP:OD1	1:KG:179:LYS:N	2.52	0.42
1:KM:201:MET:HE3	1:KM:201:MET:HB3	1.93	0.42
1:KT:163:GLU:HB3	1:KT:308:ARG:HG3	1.99	0.42
1:Kg:13:VAL:HA	1:Kg:16:ILE:HG22	2.01	0.42
1:Kj:101:SER:OG	1:Kj:102:ASP:N	2.52	0.42
1:Ko:152:LEU:HD21	2:ME:105:SER:HA	2.00	0.42
1:Kp:253:ASN:OD1	1:Kp:253:ASN:N	2.52	0.42
1:Ku:257:HIS:CE1	1:Ku:318:GLN:HG3	2.54	0.42
2:LN:63:PRO:HB2	2:LN:85:GLU:HG2	2.01	0.42
2:LO:140:ASN:ND2	2:LO:144:GLU:HB2	2.34	0.42
2:LW:182:ALA:HB2	4:MT:186:ASN:HB3	2.01	0.42
2:Lf:129:ASN:OD1	2:Lf:130:GLY:N	2.52	0.42
2:Lk:23:LYS:N	2:Lk:67:TYR:OH	2.52	0.42
2:Ln:23:LYS:HA	2:Ln:45:PHE:HD2	1.83	0.42
4:MP:133:SER:HB3	4:MP:177:TYR:CE1	2.53	0.42
4:MV:43:VAL:O	4:MV:43:VAL:HG13	2.18	0.42
1:OZ:8:TYR:CG	1:OZ:93:GLN:HG3	2.54	0.42
1:Oe:152:LEU:HD21	2:QG:105:SER:HA	2.01	0.42
1:Og:96:GLU:O	1:Og:100:THR:HG23	2.19	0.42
1:Ol:24:ILE:HG12	1:Ol:131:ASN:ND2	2.34	0.42
1:PK:31:PRO:HG3	5:SU:218:TYR:CG	2.54	0.42
1:PW:286:ASP:HB2	1:PW:294:HIS:HB2	2.02	0.42
1:Pt:80:ASN:ND2	1:Pt:154:ASN:HB2	2.34	0.42
2:QG:137:LEU:HD11	2:QG:159:ALA:HB2	2.00	0.42
2:QL:23:LYS:HE3	2:QL:23:LYS:HB2	1.90	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QP:166:LEU:HB2	2:QP:170:LEU:HD23	2.00	0.42
2:QQ:165:LYS:HB2	2:QQ:171:PHE:CE2	2.53	0.42
2:QU:129:ASN:OD1	2:QU:130:GLY:N	2.52	0.42
2:Qh:75:LEU:HD22	2:Qh:84:LEU:HD13	2.01	0.42
2:Qi:30:GLY:O	2:Qi:31:LEU:HD23	2.20	0.42
2:Qi:56:LYS:HD2	2:Qj:56:LYS:HA	2.01	0.42
2:Qm:69:TYR:HE1	2:Qm:100:ASP:HA	1.83	0.42
2:Qs:120:TYR:CE1	2:Qs:174:LEU:HB2	2.54	0.42
4:RN:64:PHE:CZ	4:RN:108:ILE:HD11	2.54	0.42
4:RY:43:VAL:O	4:RY:43:VAL:HG13	2.19	0.42
1:TI:41:MET:HE3	1:TI:83:LYS:HB3	2.01	0.42
1:TO:8:TYR:CG	1:TO:93:GLN:HG3	2.54	0.42
1:Tc:85:GLN:HB3	1:Ti:60:ILE:HD11	2.01	0.42
1:Td:49:TRP:CH2	1:Td:74:SER:HB3	2.54	0.42
1:Te:41:MET:HE1	4:Vy:112:SER:HB3	1.99	0.42
1:Tn:178:ASP:N	1:Tn:178:ASP:OD1	2.52	0.42
1:Tr:305:LEU:HD11	4:WD:32:LEU:HG	2.00	0.42
1:Tu:194:GLY:HA3	4:WE:36:ASN:HB2	2.00	0.42
1:UG:133:PHE:O	1:UG:137:GLY:N	2.42	0.42
1:UH:256:LYS:HE3	1:UH:256:LYS:HB2	1.83	0.42
1:UI:66:THR:HG22	2:VU:52:CYS:HB3	2.00	0.42
1:Ud:278:LEU:HD12	5:Xn:210:TYR:CG	2.54	0.42
1:Uk:132:HIS:HA	1:Uk:254:LEU:HD13	2.01	0.42
1:Ul:49:TRP:CH2	1:Ul:74:SER:HB3	2.54	0.42
1:Um:196:GLU:HB3	1:Um:265:ASN:HD22	1.84	0.42
2:Us:140:ASN:ND2	2:Us:144:GLU:HB2	2.34	0.42
2:Uz:153:LYS:HA	2:Uz:181:ARG:HH21	1.84	0.42
2:VL:124:LYS:HD3	2:VL:146:GLU:HB3	2.01	0.42
2:VO:23:LYS:N	2:VO:67:TYR:OH	2.52	0.42
2:Vo:140:ASN:HD21	2:Vo:144:GLU:HB2	1.83	0.42
4:Vy:10:GLU:O	4:Vy:14:LYS:HG2	2.18	0.42
4:WC:64:PHE:CZ	4:WC:108:ILE:HD11	2.54	0.42
4:WP:107:ASP:OD1	4:WP:108:ILE:N	2.52	0.42
6:YA:260:LYS:O	6:YA:263:LEU:HB3	2.19	0.42
6:YC:73:TYR:CE2	6:YC:150:ASN:HB2	2.54	0.42
6:YF:195:GLU:HA	6:YF:199:GLN:HG2	2.01	0.42
6:YH:18:LEU:HD12	6:YH:18:LEU:HA	1.89	0.42
5:YX:127:PRO:O	5:YX:131:ILE:HG13	2.19	0.42
5:Yf:146:GLU:O	5:Yf:150:GLN:HG3	2.19	0.42
5:Yh:99:ASN:O	5:Yh:103:LEU:HG	2.19	0.42
5:Yu:59:ILE:HG13	5:Zm:98:PHE:HE2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZC:143:ILE:HG22	5:ZC:143:ILE:O	2.19	0.42
5:ZE:94:LEU:HD11	5:ZE:121:LEU:HG	2.01	0.42
5:ZU:72:ILE:O	5:ZU:76:LEU:HG	2.19	0.42
5:Ze:57:GLU:HA	5:Ze:60:THR:HG22	2.01	0.42
5:Zf:122:VAL:HG11	5:Zf:151:LEU:HD13	2.00	0.42
5:Zk:94:LEU:HD11	5:Zk:121:LEU:HG	2.00	0.42
5:Zn:76:LEU:HD23	5:Zn:79:GLU:OE2	2.19	0.42
5:Zo:57:GLU:HA	5:Zo:60:THR:HG22	2.01	0.42
5:Zz:76:LEU:HD23	5:Zz:79:GLU:OE2	2.19	0.42
5:aA:79:GLU:O	5:aA:83:ILE:HG12	2.18	0.42
5:aL:118:ARG:O	5:aL:122:VAL:HG23	2.18	0.42
5:aO:55:ILE:HD13	5:au:116:ALA:HB1	2.01	0.42
5:aZ:122:VAL:HG11	5:aZ:151:LEU:HD13	1.99	0.42
5:af:76:LEU:HD23	5:af:79:GLU:OE2	2.20	0.42
5:al:76:LEU:HD23	5:al:79:GLU:OE2	2.19	0.42
5:as:57:GLU:HA	5:as:60:THR:HG22	2.01	0.42
5:bK:153:SER:HB2	5:bL:133:ALA:HB1	2.00	0.42
5:bN:118:ARG:O	5:bN:122:VAL:HG23	2.18	0.42
5:bY:57:GLU:HA	5:bY:60:THR:HG22	2.01	0.42
5:bh:76:LEU:HD23	5:bh:79:GLU:OE2	2.19	0.42
5:bn:76:LEU:HD23	5:bn:79:GLU:OE2	2.19	0.42
5:by:57:GLU:HA	5:by:60:THR:HG22	2.01	0.42
5:cE:72:ILE:O	5:cE:76:LEU:HG	2.18	0.42
5:cH:143:ILE:HD12	5:cH:143:ILE:HA	1.92	0.42
5:cI:99:ASN:HB3	5:cI:102:VAL:HG22	2.02	0.42
5:cJ:122:VAL:HG11	5:cJ:151:LEU:HD13	2.00	0.42
5:cd:76:LEU:HD23	5:cd:79:GLU:OE2	2.19	0.42
5:cf:76:LEU:HD23	5:cf:79:GLU:OE2	2.19	0.42
5:ck:86:ILE:HD11	5:ck:118:ARG:HE	1.83	0.42
5:cm:55:ILE:HD13	5:dS:116:ALA:HB1	2.00	0.42
5:cn:112:ASP:OD1	5:cn:115:GLN:NE2	2.48	0.42
5:cx:118:ARG:O	5:cx:122:VAL:HG23	2.18	0.42
5:dF:76:LEU:HD23	5:dF:79:GLU:OE2	2.19	0.42
5:dG:57:GLU:HA	5:dG:60:THR:HG22	2.01	0.42
5:da:99:ASN:HB3	5:da:102:VAL:HG22	2.01	0.42
5:db:136:LYS:HE3	5:db:136:LYS:HB2	1.90	0.42
5:dg:75:GLN:O	5:dg:79:GLU:HG2	2.18	0.42
5:dr:118:ARG:O	5:dr:122:VAL:HG23	2.18	0.42
5:ds:113:ILE:O	5:ds:117:GLN:HG2	2.19	0.42
5:dw:99:ASN:HB3	5:dw:102:VAL:HG22	2.01	0.42
5:dy:131:ILE:HD13	5:dy:140:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eC:72:ILE:O	5:eC:76:LEU:HG	2.18	0.42
5:eE:99:ASN:HB3	5:eE:102:VAL:HG22	2.01	0.42
5:eI:72:ILE:O	5:eI:76:LEU:HG	2.19	0.42
5:eV:136:LYS:HB2	5:eV:136:LYS:HE3	1.71	0.42
5:eW:113:ILE:O	5:eW:117:GLN:HG2	2.19	0.42
5:ei:131:ILE:HD13	5:ei:140:ILE:HD11	2.01	0.42
5:el:136:LYS:HB2	5:el:136:LYS:HE3	1.72	0.42
5:em:122:VAL:HG11	5:em:151:LEU:HD13	2.00	0.42
5:eo:99:ASN:HB3	5:eo:102:VAL:HG22	2.01	0.42
5:ev:118:ARG:O	5:ev:122:VAL:HG23	2.18	0.42
5:fF:122:VAL:HG11	5:fF:151:LEU:HD13	2.01	0.42
5:fG:72:ILE:O	5:fG:76:LEU:HG	2.18	0.42
5:fU:72:ILE:O	5:fU:76:LEU:HG	2.18	0.42
5:fY:72:ILE:O	5:fY:76:LEU:HG	2.19	0.42
5:fh:118:ARG:O	5:fh:122:VAL:HG23	2.18	0.42
5:fj:118:ARG:O	5:fj:122:VAL:HG23	2.18	0.42
5:gA:72:ILE:O	5:gA:76:LEU:HG	2.18	0.42
5:gC:94:LEU:HD11	5:gC:121:LEU:HG	2.01	0.42
1:AE:66:THR:HG22	2:Bl:52:CYS:HB3	2.00	0.42
1:AN:52:PHE:CZ	1:AN:71:GLY:HA3	2.54	0.42
1:AR:205:VAL:HG12	1:AR:259:ILE:HG23	2.01	0.42
1:AS:163:GLU:HB2	2:Bz:31:LEU:CD2	2.49	0.42
1:AW:31:PRO:HG3	5:Dg:218:TYR:CD1	2.53	0.42
1:Ad:86:TYR:OH	1:Ag:55:ALA:O	2.34	0.42
1:Af:306:ALA:O	4:Ct:31:LEU:HB2	2.18	0.42
1:Ag:196:GLU:HB3	1:Ag:265:ASN:ND2	2.34	0.42
1:Ag:305:LEU:HD21	3:Cj:77:PHE:HE2	1.84	0.42
1:Aq:158:LEU:HB3	1:Aq:260:LEU:HD21	2.00	0.42
1:Ar:239:LYS:NZ	1:Ar:245:GLU:O	2.52	0.42
1:At:113:LEU:HD11	1:Fl:49:TRP:CE3	2.54	0.42
1:Aw:181:PHE:CD1	1:Aw:184:ILE:HD12	2.54	0.42
1:Az:143:LYS:HA	2:CS:39:ARG:HE	1.84	0.42
1:BC:163:GLU:HB3	1:BC:308:ARG:HG3	2.01	0.42
1:BL:26:TYR:O	5:EV:218:TYR:OH	2.29	0.42
1:BM:49:TRP:CE3	1:UR:113:LEU:HD11	2.55	0.42
1:BO:307:THR:HG22	2:Ca:32:LEU:HB2	2.01	0.42
1:BR:41:MET:HE3	1:BR:82:LEU:HD12	2.00	0.42
1:BW:25:MET:HE1	1:BW:130:ILE:HG22	2.01	0.42
1:BW:158:LEU:HB3	1:BW:260:LEU:HD21	2.00	0.42
1:BX:178:ASP:OD1	1:BX:178:ASP:N	2.52	0.42
1:Ba:54:ASN:HD22	1:Ba:69:THR:C	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:49:TRP:CE3	1:GN:113:LEU:HD11	2.54	0.42
1:Bc:41:MET:HE3	1:Bc:82:LEU:HD12	2.01	0.42
1:Bc:181:PHE:CZ	1:Bc:234:LEU:HB2	2.54	0.42
2:Bj:138:ASN:HD22	2:Bj:153:LYS:HE2	1.84	0.42
2:Bj:167:THR:HG22	2:Bj:168:GLU:N	2.35	0.42
2:Bk:140:ASN:ND2	2:Bk:144:GLU:HB2	2.34	0.42
2:Bv:167:THR:HG22	2:Bv:168:GLU:N	2.35	0.42
2:By:181:ARG:NH1	2:Bz:94:LEU:O	2.50	0.42
2:CL:165:LYS:HB2	2:CL:171:PHE:CE2	2.54	0.42
2:CU:140:ASN:HD21	2:CU:144:GLU:HB2	1.83	0.42
2:CZ:120:TYR:CE1	2:CZ:174:LEU:HB2	2.54	0.42
2:Cc:156:ASN:HB3	2:Cc:178:PHE:CZ	2.54	0.42
2:Cd:133:PRO:HG3	2:Cd:161:SER:HA	2.00	0.42
5:Dh:211:LYS:O	5:Dh:215:ILE:HG13	2.19	0.42
5:Eo:189:LEU:HD11	5:Eo:206:ILE:HG12	2.00	0.42
1:Eq:239:LYS:NZ	1:Eq:245:GLU:O	2.46	0.42
1:Et:157:GLY:N	1:Et:160:ASN:OD1	2.43	0.42
1:Eu:290:THR:HG22	1:Ev:60:ILE:HG23	2.01	0.42
1:FA:169:VAL:HG22	1:FA:183:LYS:HG3	2.02	0.42
1:FB:152:LEU:HD11	2:Gd:105:SER:HA	1.99	0.42
1:FD:194:GLY:HA3	4:He:36:ASN:HD22	1.84	0.42
1:FM:307:THR:HG22	2:Gl:32:LEU:HB2	2.00	0.42
1:FN:85:GLN:HB3	1:FO:60:ILE:HD11	2.01	0.42
1:FV:196:GLU:HB3	1:FV:265:ASN:ND2	2.34	0.42
1:Fn:178:ASP:OD1	1:Fn:178:ASP:N	2.52	0.42
1:Fs:49:TRP:HH2	1:Fz:111:ASN:HA	1.85	0.42
1:GD:307:THR:HG22	2:HP:32:LEU:HB2	2.01	0.42
1:GO:49:TRP:CH2	1:GO:74:SER:HB3	2.54	0.42
1:GP:80:ASN:ND2	1:GP:154:ASN:HB2	2.35	0.42
1:GS:178:ASP:OD1	1:GS:178:ASP:N	2.51	0.42
2:GX:167:THR:HB	2:GX:170:LEU:HB3	2.01	0.42
2:GY:63:PRO:HB2	2:GY:85:GLU:HG2	2.01	0.42
2:Gy:23:LYS:HA	2:Gy:45:PHE:HD2	1.84	0.42
2:HS:75:LEU:HD22	2:HS:84:LEU:HD13	2.00	0.42
4:Hl:142:ILE:HG13	4:Hl:152:VAL:HG22	2.01	0.42
4:Hr:120:ILE:HD12	4:Hr:120:ILE:HA	1.94	0.42
4:Hs:144:ASN:OD1	4:Hs:148:ALA:N	2.42	0.42
1:Jm:196:GLU:OE1	1:Jm:265:ASN:ND2	2.51	0.42
1:Jr:52:PHE:CZ	1:Jr:71:GLY:HA3	2.54	0.42
1:Jv:165:ILE:HD13	1:Jv:191:LEU:HD23	2.00	0.42
1:KD:47:VAL:HG22	1:KD:76:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KH:26:TYR:O	5:NR:218:TYR:OH	2.36	0.42
1:KS:41:MET:HE3	1:KS:83:LYS:HB3	2.00	0.42
1:KS:174:LYS:HG3	1:KS:175:ASP:OD1	2.20	0.42
1:KU:158:LEU:HB3	1:KU:260:LEU:HD21	2.00	0.42
1:KW:13:VAL:HG11	1:KW:281:PRO:HG2	2.01	0.42
1:KX:113:LEU:HD11	1:PP:49:TRP:CE3	2.54	0.42
1:KZ:152:LEU:HD21	2:Lr:105:SER:HA	2.01	0.42
1:Kj:81:TYR:OH	1:Kj:272:LYS:O	2.35	0.42
1:Kp:129:LEU:HD11	1:Kp:139:VAL:HG13	2.01	0.42
1:Ks:49:TRP:CH2	1:Ks:74:SER:HB3	2.54	0.42
1:Kw:113:LEU:HD11	1:Kz:49:TRP:CE3	2.53	0.42
1:Kz:259:ILE:HB	1:Kz:314:VAL:HB	1.99	0.42
1:Kz:306:ALA:O	4:Mk:31:LEU:HB2	2.18	0.42
1:LB:178:ASP:OD1	1:LB:178:ASP:N	2.52	0.42
1:LD:163:GLU:HB2	2:Lb:31:LEU:HD13	2.01	0.42
1:LG:96:GLU:O	1:LG:100:THR:HG23	2.19	0.42
2:LK:69:TYR:CZ	2:LK:70:LYS:HE2	2.54	0.42
2:LL:57:ASP:O	1:OU:65:ASN:ND2	2.52	0.42
2:Lr:69:TYR:CE2	2:Lr:70:LYS:HG2	2.53	0.42
4:MS:105:CYS:SG	4:MS:115:ALA:HB1	2.58	0.42
4:MW:43:VAL:O	4:MW:43:VAL:HG13	2.18	0.42
4:Md:137:VAL:HG12	4:Md:138:LYS:HG3	2.02	0.42
4:Md:142:ILE:HG13	4:Md:152:VAL:HG22	2.01	0.42
4:Mi:43:VAL:O	4:Mi:43:VAL:HG13	2.18	0.42
5:NL:211:LYS:O	5:NL:215:ILE:HG13	2.19	0.42
5:Nw:211:LYS:HG3	5:Nw:214:ARG:HH21	1.83	0.42
1:OW:132:HIS:HA	1:OW:254:LEU:HD13	2.01	0.42
1:OX:96:GLU:O	1:OX:100:THR:HG23	2.19	0.42
1:Ob:67:ILE:HD13	1:TY:85:GLN:HE21	1.84	0.42
1:Oi:80:ASN:HB2	1:Oi:155:MET:HG3	2.00	0.42
1:Ot:96:GLU:O	1:Ot:100:THR:HG23	2.18	0.42
1:Ot:196:GLU:OE1	1:Ot:265:ASN:ND2	2.51	0.42
1:PJ:49:TRP:CE3	1:PJ:74:SER:HB3	2.54	0.42
1:PT:175:ASP:HA	1:PT:212:LYS:NZ	2.33	0.42
1:PU:91:LEU:HD21	1:PU:112:LEU:HD13	2.02	0.42
1:Pb:96:GLU:O	1:Pb:100:THR:HG23	2.19	0.42
1:Ph:307:THR:HG22	2:Qt:32:LEU:HB2	2.01	0.42
1:Pj:13:VAL:HG13	1:Pj:119:TYR:CE2	2.54	0.42
1:Pj:175:ASP:HA	1:Pj:212:LYS:NZ	2.34	0.42
1:Pk:39:LEU:HD21	1:Pk:81:TYR:CE2	2.54	0.42
1:Po:175:ASP:HA	1:Po:212:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pu:158:LEU:HB3	1:Pu:260:LEU:HD21	2.00	0.42
1:Pv:166:LYS:HE2	1:Pv:313:GLN:OE1	2.19	0.42
2:QB:167:THR:HB	2:QB:170:LEU:HB3	2.01	0.42
2:QZ:23:LYS:N	2:QZ:67:TYR:OH	2.52	0.42
2:Qe:165:LYS:HB2	2:Qe:171:PHE:CE2	2.54	0.42
2:Qh:120:TYR:CE1	2:Qh:174:LEU:HB2	2.53	0.42
3:RC:172:ASN:HB3	3:RC:175:ILE:HD11	2.01	0.42
4:RJ:142:ILE:HD11	4:RJ:152:VAL:HG23	2.01	0.42
4:RL:166:LEU:HD12	4:RL:180:LYS:HE2	2.00	0.42
4:RN:141:LEU:HD11	4:RN:165:ALA:HB2	2.01	0.42
4:RQ:65:LEU:HD12	4:RQ:92:HIS:CE1	2.54	0.42
4:RU:43:VAL:O	4:RU:43:VAL:HG13	2.18	0.42
4:Rc:28:ASP:OD2	1:Uf:45:LYS:NZ	2.47	0.42
4:Rc:35:SER:O	4:Rc:41:LYS:HD2	2.18	0.42
1:Tn:164:GLN:OE1	1:Tn:310:THR:N	2.43	0.42
1:UB:113:LEU:HD23	1:UB:117:GLN:HB2	2.00	0.42
1:UB:196:GLU:HB3	1:UB:265:ASN:ND2	2.34	0.42
1:UF:55:ALA:HA	1:UW:141:ILE:HD13	2.01	0.42
1:UF:59:THR:HG1	1:UW:149:LYS:HZ1	1.66	0.42
1:UZ:39:LEU:HD21	1:UZ:81:TYR:CE2	2.54	0.42
1:Ub:8:TYR:CD2	1:Ub:93:GLN:HG3	2.54	0.42
1:Ud:147:ASN:H	4:WP:88:HIS:CD2	2.36	0.42
1:Ug:13:VAL:HA	1:Ug:16:ILE:HG22	2.02	0.42
1:Um:16:ILE:HD11	1:Um:120:LYS:HE3	2.00	0.42
2:Uo:166:LEU:HD11	2:Uo:172:ILE:HD13	2.01	0.42
2:Uv:137:LEU:HD11	2:Uv:159:ALA:HB2	2.00	0.42
2:VO:23:LYS:HE3	2:VO:23:LYS:HB2	1.87	0.42
2:VU:166:LEU:HB2	2:VU:170:LEU:HD23	2.00	0.42
2:VV:116:ASN:HB3	2:VW:58:LYS:NZ	2.34	0.42
2:Vb:23:LYS:N	2:Vb:67:TYR:OH	2.52	0.42
2:Vp:77:PHE:CD2	4:WR:138:LYS:HE2	2.53	0.42
4:WM:43:VAL:O	4:WM:43:VAL:HG13	2.18	0.42
6:YB:320:ASN:HB3	6:YB:368:GLN:HE22	1.82	0.42
6:YC:197:LEU:HD23	6:YC:201:GLN:HG2	2.01	0.42
6:YD:305:GLU:OE1	6:YD:308:THR:N	2.43	0.42
6:YI:196:SER:OG	6:YI:197:LEU:N	2.52	0.42
6:YI:299:ILE:O	6:YI:303:THR:HG22	2.19	0.42
5:YK:66:VAL:HG22	5:YK:69:ARG:NH2	2.34	0.42
5:YK:72:ILE:O	5:YK:76:LEU:HG	2.19	0.42
5:YT:72:ILE:O	5:YT:76:LEU:HG	2.18	0.42
5:YT:99:ASN:O	5:YT:103:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yc:131:ILE:HD13	5:Yc:140:ILE:HD11	2.01	0.42
5:Yr:72:ILE:O	5:Yr:76:LEU:HG	2.19	0.42
5:Yr:83:ILE:HG23	5:Yr:114:MET:SD	2.60	0.42
5:Ys:73:GLU:O	5:Ys:77:LEU:HG	2.20	0.42
5:Yv:84:ASN:HD21	5:Yw:84:ASN:HB2	1.84	0.42
5:Yy:94:LEU:HD11	5:Yy:121:LEU:HG	2.00	0.42
5:ZC:135:ALA:O	5:ZC:137:VAL:N	2.52	0.42
5:ZJ:131:ILE:HD13	5:ZJ:140:ILE:HD11	2.00	0.42
5:ZS:99:ASN:O	5:ZS:103:LEU:HG	2.19	0.42
5:ZY:123:ARG:NH2	5:ZY:140:ILE:HB	2.33	0.42
5:Ze:94:LEU:HD11	5:Ze:121:LEU:HG	2.00	0.42
5:Zk:72:ILE:O	5:Zk:76:LEU:HG	2.18	0.42
5:Zm:57:GLU:HA	5:Zm:60:THR:HG22	2.01	0.42
5:Zt:122:VAL:HG11	5:Zt:151:LEU:HD13	2.00	0.42
5:Zv:112:ASP:OD1	5:Zv:115:GLN:NE2	2.49	0.42
5:Zx:76:LEU:HD23	5:Zx:79:GLU:OE2	2.19	0.42
5:aH:76:LEU:HD23	5:aH:79:GLU:OE2	2.19	0.42
5:aK:72:ILE:O	5:aK:76:LEU:HG	2.18	0.42
5:aN:76:LEU:HD23	5:aN:79:GLU:OE2	2.19	0.42
5:aV:76:LEU:HD23	5:aV:79:GLU:OE2	2.20	0.42
5:aW:57:GLU:HA	5:aW:60:THR:HG22	2.01	0.42
5:ab:143:ILE:HD12	5:ab:143:ILE:HA	1.92	0.42
5:af:118:ARG:O	5:af:122:VAL:HG23	2.18	0.42
5:am:98:PHE:HB3	5:am:117:GLN:HE22	1.84	0.42
5:au:72:ILE:O	5:au:76:LEU:HG	2.18	0.42
5:bB:136:LYS:HE3	5:bB:136:LYS:HB2	1.90	0.42
5:bO:111:LYS:HZ1	5:bR:74:LYS:HE3	1.83	0.42
5:bR:118:ARG:O	5:bR:122:VAL:HG23	2.18	0.42
5:bt:76:LEU:HD23	5:bt:79:GLU:OE2	2.19	0.42
5:bu:153:SER:HB2	5:bv:133:ALA:HB1	2.01	0.42
5:bx:76:LEU:HD23	5:bx:79:GLU:OE2	2.19	0.42
5:cF:76:LEU:HD23	5:cF:79:GLU:OE2	2.20	0.42
5:cW:86:ILE:HD11	5:cW:118:ARG:HE	1.84	0.42
5:cj:122:VAL:HG11	5:cj:151:LEU:HD13	2.00	0.42
5:cs:55:ILE:HG21	5:dY:116:ALA:HB2	2.01	0.42
5:cy:98:PHE:HB3	5:cy:117:GLN:HE22	1.84	0.42
5:dB:76:LEU:HD23	5:dB:79:GLU:OE2	2.19	0.42
5:dD:118:ARG:O	5:dD:122:VAL:HG23	2.18	0.42
5:dU:94:LEU:HD11	5:dU:121:LEU:HG	2.01	0.42
5:dZ:76:LEU:HD23	5:dZ:79:GLU:OE2	2.19	0.42
5:dZ:122:VAL:HG11	5:dZ:151:LEU:HD13	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:da:57:GLU:HA	5:da:60:THR:HG22	2.01	0.42
5:dd:76:LEU:HD23	5:dd:79:GLU:OE2	2.20	0.42
5:di:147:ILE:HB	5:eQ:55:ILE:HG23	2.01	0.42
5:dm:79:GLU:O	5:dm:83:ILE:HG12	2.18	0.42
5:dr:146:GLU:CD	5:eY:58:ARG:HH21	2.27	0.42
5:eA:59:ILE:O	5:eA:63:LEU:HD23	2.18	0.42
5:eB:143:ILE:HD12	5:eB:143:ILE:HA	1.92	0.42
5:eC:143:ILE:HG22	5:eC:143:ILE:O	2.18	0.42
5:eI:143:ILE:HG22	5:eI:143:ILE:O	2.19	0.42
5:eQ:113:ILE:O	5:eQ:117:GLN:HG2	2.19	0.42
5:eR:136:LYS:HB2	5:eR:136:LYS:HE3	1.71	0.42
5:eU:113:ILE:O	5:eU:117:GLN:HG2	2.19	0.42
5:ee:113:ILE:O	5:ee:117:GLN:HG2	2.19	0.42
5:ek:113:ILE:O	5:ek:117:GLN:HG2	2.19	0.42
5:ex:118:ARG:O	5:ex:122:VAL:HG23	2.18	0.42
5:ez:136:LYS:HE3	5:ez:136:LYS:HB2	1.90	0.42
5:fT:143:ILE:HD12	5:fT:143:ILE:HA	1.92	0.42
5:fk:72:ILE:O	5:fk:76:LEU:HG	2.18	0.42
5:gD:112:ASP:OD1	5:gD:115:GLN:NE2	2.49	0.42
1:AA:194:GLY:HA3	2:GU:36:ILE:HG23	2.01	0.42
1:AB:55:ALA:O	1:TK:86:TYR:OH	2.34	0.42
1:AD:132:HIS:HA	1:AD:254:LEU:HD13	2.01	0.42
1:AG:260:LEU:HD23	1:AG:260:LEU:HA	1.90	0.42
1:AJ:96:GLU:O	1:AJ:100:THR:HG23	2.20	0.42
1:AK:261:ILE:HD12	1:AK:312:LEU:HD23	2.00	0.42
1:AM:133:PHE:O	1:AM:137:GLY:N	2.43	0.42
1:AN:96:GLU:O	1:AN:100:THR:HG23	2.19	0.42
1:AP:260:LEU:HD23	1:AP:260:LEU:HA	1.93	0.42
1:Ao:196:GLU:HB3	1:Ao:265:ASN:HD22	1.84	0.42
1:Ar:31:PRO:HG3	5:EB:218:TYR:CG	2.54	0.42
1:Ay:178:ASP:OD1	1:Ay:178:ASP:N	2.52	0.42
1:BL:175:ASP:HA	1:BL:212:LYS:NZ	2.34	0.42
1:BO:49:TRP:CH2	1:BO:74:SER:HB3	2.54	0.42
1:BT:8:TYR:CD2	1:BT:93:GLN:HG3	2.54	0.42
1:BY:113:LEU:HD11	1:Uj:49:TRP:CE3	2.54	0.42
1:Ba:16:ILE:HD12	1:Ba:116:ALA:HB1	2.01	0.42
2:Bf:156:ASN:HB2	2:Bf:178:PHE:O	2.19	0.42
2:Bg:23:LYS:HE2	2:Bg:48:SER:HB3	1.99	0.42
2:Bi:167:THR:HB	2:Bi:170:LEU:HB3	2.01	0.42
2:Bj:140:ASN:OD1	2:Bj:144:GLU:N	2.49	0.42
2:Bn:140:ASN:HD21	2:Bn:144:GLU:HB2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CG:138:ASN:HD22	2:CG:153:LYS:HE2	1.84	0.42
2:CR:30:GLY:O	2:CR:31:LEU:HD23	2.19	0.42
2:CT:77:PHE:HB2	4:DC:138:LYS:HE2	2.00	0.42
2:CY:64:ALA:HB2	2:CY:108:ALA:HB2	2.02	0.42
2:Cd:75:LEU:HD22	2:Cd:84:LEU:HD13	2.00	0.42
2:Cg:116:ASN:ND2	4:DI:60:GLU:OE2	2.52	0.42
4:Co:162:ASN:HB2	4:Co:184:PHE:O	2.18	0.42
1:Ep:41:MET:HE3	1:Ep:83:LYS:HB3	2.01	0.42
1:FX:107:ASP:HB3	1:FX:112:LEU:HB2	2.01	0.42
1:FY:305:LEU:HD11	4:Hk:32:LEU:HG	2.00	0.42
1:Fd:174:LYS:HG3	1:Fd:175:ASP:OD1	2.20	0.42
1:Fj:256:LYS:HG2	1:Fj:257:HIS:CD2	2.54	0.42
1:Fm:211:LEU:HD23	1:Fm:211:LEU:HA	1.90	0.42
1:Fn:49:TRP:CZ3	1:Fn:74:SER:HB3	2.54	0.42
1:Fn:175:ASP:HA	1:Fn:212:LYS:NZ	2.34	0.42
1:Fp:87:LYS:O	1:Fy:69:THR:HA	2.19	0.42
1:Fq:113:LEU:HD11	1:GA:49:TRP:CE3	2.55	0.42
1:Fs:286:ASP:HB2	1:Fs:294:HIS:HB2	2.02	0.42
1:Fx:96:GLU:O	1:Fx:100:THR:HG23	2.19	0.42
1:Fx:286:ASP:HB2	1:Fx:294:HIS:HB2	2.00	0.42
1:GB:296:TYR:HE2	1:GD:67:ILE:HG13	1.83	0.42
1:GG:39:LEU:HD21	1:GG:81:TYR:CE2	2.54	0.42
1:GJ:142:GLN:O	4:Hw:39:ARG:HD2	2.20	0.42
1:GR:49:TRP:CZ3	1:GR:74:SER:HB3	2.54	0.42
2:GU:183:ILE:H	2:GW:183:ILE:H	1.67	0.42
2:Gf:167:THR:HB	2:Gf:170:LEU:HB3	2.01	0.42
2:Gk:116:ASN:HB3	4:Hf:58:LYS:HE3	2.02	0.42
2:Gv:23:LYS:N	2:Gv:67:TYR:OH	2.52	0.42
2:HC:167:THR:HG22	2:HC:168:GLU:N	2.33	0.42
4:Hj:165:ALA:HA	4:Hj:181:VAL:HG12	2.00	0.42
4:Ht:144:ASN:HD21	4:Ht:148:ALA:HB3	1.84	0.42
4:Hv:25:PRO:HB2	4:Hv:27:HIS:CD2	2.55	0.42
4:Hx:51:THR:HG21	4:Hx:180:LYS:HE3	2.01	0.42
4:Hy:43:VAL:O	4:Hy:43:VAL:HG13	2.19	0.42
1:Je:152:LEU:HD21	2:LK:105:SER:HA	2.00	0.42
1:Jj:290:THR:HG22	1:Jk:60:ILE:HG23	2.01	0.42
1:KJ:178:ASP:OD1	1:KJ:178:ASP:N	2.52	0.42
1:KN:89:ARG:NH2	1:KN:112:LEU:HD21	2.33	0.42
1:KR:49:TRP:CE3	1:KR:74:SER:HB3	2.53	0.42
1:KV:19:GLU:HA	1:KV:120:LYS:HD3	2.01	0.42
1:KV:201:MET:HE3	1:KV:201:MET:HB3	1.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KY:178:ASP:OD1	1:KY:178:ASP:N	2.52	0.42
1:KZ:158:LEU:HB3	1:KZ:260:LEU:HD21	2.01	0.42
1:Kd:143:LYS:HA	2:Lw:39:ARG:HE	1.84	0.42
1:Ke:282:ASN:HB3	1:Ke:296:TYR:HB2	2.01	0.42
1:Kf:317:LYS:NZ	1:Kf:319:SER:OXT	2.50	0.42
1:Kg:52:PHE:HB3	4:Mh:41:LYS:HE2	2.01	0.42
1:Kh:286:ASP:HB2	1:Kh:294:HIS:HB2	2.02	0.42
1:Kj:59:THR:O	2:MI:61:ASN:ND2	2.52	0.42
1:Kr:196:GLU:HB3	1:Kr:265:ASN:HD22	1.85	0.42
1:Ks:307:THR:HG22	2:ME:32:LEU:HB2	2.01	0.42
1:Ku:13:VAL:HG13	1:Ku:119:TYR:CE2	2.54	0.42
1:Kv:223:ALA:HA	1:PU:223:ALA:HB3	2.01	0.42
1:LA:196:GLU:OE1	1:LA:265:ASN:ND2	2.53	0.42
1:LG:41:MET:HE3	1:LG:82:LEU:HD12	2.01	0.42
1:LI:196:GLU:HB3	1:LI:265:ASN:HD22	1.84	0.42
2:LY:116:ASN:OD1	2:LZ:58:LYS:HE2	2.19	0.42
2:Lr:167:THR:HG22	2:Lr:168:GLU:N	2.33	0.42
2:Lv:30:GLY:O	2:Lv:31:LEU:HD23	2.19	0.42
2:Lv:120:TYR:CE1	2:Lv:174:LEU:HB2	2.54	0.42
2:Ly:120:TYR:CE1	2:Ly:174:LEU:HB2	2.54	0.42
2:MD:182:ALA:HB3	2:ME:183:ILE:HD12	2.02	0.42
2:MG:75:LEU:HD22	2:MG:84:LEU:HD13	2.01	0.42
2:MK:140:ASN:HD21	2:MK:144:GLU:HB2	1.83	0.42
2:ML:23:LYS:NZ	2:ML:100:ASP:OD1	2.51	0.42
2:MM:133:PRO:HG3	2:MM:161:SER:HA	2.02	0.42
4:MW:133:SER:HB3	4:MW:177:TYR:CE1	2.54	0.42
4:Ma:142:ILE:HG13	4:Ma:152:VAL:HG22	2.01	0.42
4:Md:141:LEU:HD13	4:Md:149:LEU:HB3	2.02	0.42
5:Nf:211:LYS:HG3	5:Nf:214:ARG:HH21	1.85	0.42
1:Og:52:PHE:CZ	1:Og:71:GLY:HA3	2.54	0.42
1:Op:201:MET:HE3	1:Op:201:MET:HB3	1.87	0.42
1:Ot:307:THR:HG22	2:QM:32:LEU:HB2	2.01	0.42
1:Oy:169:VAL:HG22	1:Oy:183:LYS:HG3	2.02	0.42
1:Oy:178:ASP:OD1	1:Oy:178:ASP:N	2.52	0.42
1:PK:157:GLY:N	1:PK:160:ASN:OD1	2.38	0.42
1:PL:13:VAL:HG11	1:PL:281:PRO:HG2	2.01	0.42
1:PW:169:VAL:HB	1:PW:316:ILE:HA	2.02	0.42
1:PX:181:PHE:HA	1:PX:184:ILE:HD12	2.01	0.42
1:PZ:31:PRO:HG3	5:Sj:218:TYR:CD1	2.53	0.42
1:Pd:57:PRO:HB2	1:Pg:84:LEU:HD13	2.01	0.42
1:Pg:196:GLU:HB3	1:Pg:265:ASN:HD22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pj:191:LEU:HD23	1:Pj:191:LEU:HA	1.94	0.42
1:Pr:66:THR:HG22	2:QR:52:CYS:HB3	2.02	0.42
1:Pw:259:ILE:HB	1:Pw:314:VAL:HB	2.02	0.42
2:Qt:100:ASP:HB3	2:Qt:109:THR:HB	2.01	0.42
2:Qw:148:VAL:HG21	2:Qw:155:VAL:HG12	2.01	0.42
3:RC:184:ASN:HB3	3:RC:190:ILE:HD13	2.02	0.42
4:RP:142:ILE:HG13	4:RP:152:VAL:HG22	2.01	0.42
5:Sf:211:LYS:HG3	5:Sf:214:ARG:NH2	2.34	0.42
1:TM:31:PRO:HG3	5:WW:218:TYR:CD1	2.54	0.42
1:TS:13:VAL:HG11	1:TS:281:PRO:HG2	2.01	0.42
1:Ta:24:ILE:HG12	1:Ta:131:ASN:ND2	2.34	0.42
1:Th:49:TRP:CE3	1:Th:74:SER:HB3	2.55	0.42
1:To:196:GLU:HB3	1:To:265:ASN:ND2	2.34	0.42
1:Tx:112:LEU:HD21	1:Tx:292:VAL:HG22	2.01	0.42
1:UA:197:PHE:HD2	1:UA:243:ASN:HB2	1.84	0.42
1:UC:178:ASP:OD1	1:UC:178:ASP:N	2.52	0.42
1:UF:31:PRO:HA	5:XP:218:TYR:CE2	2.55	0.42
1:UL:70:ILE:HD11	1:US:86:TYR:HD2	1.84	0.42
1:UV:178:ASP:OD1	1:UV:178:ASP:N	2.52	0.42
1:UW:307:THR:HG22	2:Vi:32:LEU:HB2	2.01	0.42
1:UX:257:HIS:ND1	1:UX:318:GLN:HG3	2.34	0.42
1:Uj:181:PHE:CZ	1:Uj:234:LEU:HB2	2.54	0.42
1:Uk:49:TRP:CZ3	1:Uk:74:SER:HB3	2.54	0.42
1:Uk:96:GLU:O	1:Uk:100:THR:HG23	2.19	0.42
2:Ur:63:PRO:HB2	2:Ur:85:GLU:HG2	2.01	0.42
2:Ut:69:TYR:CE2	2:Ut:70:LYS:HG2	2.54	0.42
2:Uv:140:ASN:HD21	2:Uv:144:GLU:HB2	1.83	0.42
2:VD:167:THR:HG22	2:VD:168:GLU:N	2.34	0.42
2:Vh:136:LYS:HD3	2:Vh:155:VAL:HG11	2.02	0.42
2:Vo:137:LEU:HB3	2:Vo:145:LEU:HD22	2.02	0.42
4:WH:137:VAL:HG12	4:WH:138:LYS:HG3	2.02	0.42
4:WQ:144:ASN:HD21	4:WQ:148:ALA:HB3	1.83	0.42
5:XU:211:LYS:HG3	5:XU:214:ARG:NH2	2.34	0.42
6:Xz:73:TYR:CE2	6:Xz:150:ASN:HB2	2.55	0.42
6:YB:299:ILE:O	6:YB:303:THR:HG22	2.19	0.42
6:YB:379:LEU:HD13	6:YC:374:ILE:HG13	2.01	0.42
6:YE:73:TYR:CE2	6:YE:150:ASN:HB2	2.54	0.42
6:YE:196:SER:OG	6:YE:197:LEU:N	2.51	0.42
6:YF:73:TYR:CE2	6:YF:150:ASN:HB2	2.54	0.42
6:YG:299:ILE:O	6:YG:303:THR:HG22	2.19	0.42
5:YM:82:ARG:O	5:YM:86:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YP:86:ILE:HG13	5:YP:118:ARG:HH21	1.84	0.42
5:YS:82:ARG:O	5:YS:86:ILE:HG13	2.19	0.42
5:YX:144:ASP:HA	5:YX:148:LEU:HD22	2.01	0.42
5:Yg:127:PRO:HD2	5:Yg:130:GLN:OE1	2.19	0.42
5:Yh:72:ILE:O	5:Yh:76:LEU:HG	2.19	0.42
5:Yi:128:ILE:HD12	5:Yi:131:ILE:HB	2.01	0.42
5:Ym:86:ILE:HD11	5:Ym:118:ARG:HE	1.83	0.42
5:ZZ:76:LEU:HD23	5:ZZ:79:GLU:OE2	2.19	0.42
5:Za:153:SER:HB2	5:Zb:133:ALA:HB1	2.00	0.42
5:Zb:118:ARG:O	5:Zb:122:VAL:HG23	2.19	0.42
5:Zh:143:ILE:HD12	5:Zh:143:ILE:HA	1.92	0.42
5:Zp:76:LEU:HD23	5:Zp:79:GLU:OE2	2.20	0.42
5:Zq:94:LEU:HD13	5:Zq:120:GLU:OE1	2.20	0.42
5:Zr:76:LEU:HD23	5:Zr:79:GLU:OE2	2.19	0.42
5:aC:94:LEU:HD11	5:aC:121:LEU:HG	2.00	0.42
5:aD:76:LEU:HD23	5:aD:79:GLU:OE2	2.19	0.42
5:aD:112:ASP:OD1	5:aD:115:GLN:NE2	2.50	0.42
5:aJ:112:ASP:OD1	5:aJ:115:GLN:NE2	2.49	0.42
5:aa:57:GLU:HA	5:aa:60:THR:HG22	2.01	0.42
5:ah:76:LEU:HD23	5:ah:79:GLU:OE2	2.20	0.42
5:aj:76:LEU:HD23	5:aj:79:GLU:OE2	2.20	0.42
5:bA:94:LEU:HD11	5:bA:121:LEU:HG	2.01	0.42
5:bI:72:ILE:O	5:bI:76:LEU:HG	2.18	0.42
5:bO:57:GLU:HA	5:bO:60:THR:HG22	2.01	0.42
5:bQ:98:PHE:HB3	5:bQ:117:GLN:HE22	1.85	0.42
5:bf:76:LEU:HD23	5:bf:79:GLU:OE2	2.20	0.42
5:bl:136:LYS:HE3	5:bl:136:LYS:HB2	1.90	0.42
5:bv:76:LEU:HD23	5:bv:79:GLU:OE2	2.19	0.42
5:bw:57:GLU:HA	5:bw:60:THR:HG22	2.01	0.42
5:cB:118:ARG:O	5:cB:122:VAL:HG23	2.18	0.42
5:cU:153:SER:HB2	5:cV:133:ALA:HB1	2.01	0.42
5:cV:76:LEU:HD23	5:cV:79:GLU:OE2	2.20	0.42
5:cX:76:LEU:HD23	5:cX:79:GLU:OE2	2.20	0.42
5:ce:153:SER:HB2	5:cf:133:ALA:HB1	2.00	0.42
5:cq:94:LEU:HD11	5:cq:121:LEU:HG	2.01	0.42
5:cr:136:LYS:HE3	5:cr:136:LYS:HB2	1.90	0.42
5:cz:76:LEU:HD23	5:cz:79:GLU:OE2	2.19	0.42
5:dD:76:LEU:HD23	5:dD:79:GLU:OE2	2.19	0.42
5:dH:118:ARG:O	5:dH:122:VAL:HG23	2.18	0.42
5:dI:57:GLU:HA	5:dI:60:THR:HG22	2.01	0.42
5:dP:143:ILE:HD12	5:dP:143:ILE:HA	1.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:dY:94:LEU:HD11	5:dY:121:LEU:HG	2.01	0.42
5:db:76:LEU:HD23	5:db:79:GLU:OE2	2.19	0.42
5:dg:99:ASN:HB3	5:dg:102:VAL:HG22	2.01	0.42
5:dt:76:LEU:HD23	5:dt:79:GLU:OE2	2.19	0.42
5:dw:94:LEU:HD11	5:dw:121:LEU:HG	2.00	0.42
5:eE:75:GLN:O	5:eE:79:GLU:HG2	2.19	0.42
5:eF:76:LEU:HD23	5:eF:79:GLU:OE2	2.19	0.42
5:eF:146:GLU:CD	5:em:58:ARG:HH21	2.27	0.42
5:eH:76:LEU:HD23	5:eH:79:GLU:OE2	2.19	0.42
5:eV:112:ASP:OD1	5:eV:115:GLN:NE2	2.48	0.42
5:eo:113:ILE:O	5:eo:117:GLN:HG2	2.19	0.42
5:ey:99:ASN:HB3	5:ey:102:VAL:HG22	2.01	0.42
5:fA:99:ASN:HB3	5:fA:102:VAL:HG22	2.01	0.42
5:fE:94:LEU:HD11	5:fE:121:LEU:HG	2.00	0.42
5:fW:99:ASN:HB3	5:fW:102:VAL:HG22	2.01	0.42
5:fb:122:VAL:HG11	5:fb:151:LEU:HD13	2.00	0.42
5:fe:72:ILE:O	5:fe:76:LEU:HG	2.18	0.42
1:AF:178:ASP:OD1	1:AF:179:LYS:N	2.53	0.42
1:AF:290:THR:HG22	1:AG:60:ILE:HG23	2.01	0.42
1:AI:67:ILE:HD13	1:FF:85:GLN:HE21	1.85	0.42
1:AM:152:LEU:HD11	2:Bo:105:SER:HA	1.99	0.42
1:AP:286:ASP:HB2	1:AP:294:HIS:HB2	2.00	0.42
1:AQ:162:PRO:HG2	2:Bj:31:LEU:HD11	2.00	0.42
1:AR:31:PRO:HG3	5:Db:218:TYR:CG	2.54	0.42
1:AU:31:PRO:HG3	5:De:218:TYR:CD1	2.55	0.42
1:AY:201:MET:HE3	1:AY:201:MET:HB3	1.96	0.42
1:AZ:110:ASN:ND2	1:BY:62:ASN:OD1	2.53	0.42
1:Aj:253:ASN:OD1	1:Aj:253:ASN:N	2.52	0.42
1:As:87:LYS:NZ	2:CL:53:THR:O	2.38	0.42
1:Ay:152:LEU:HD21	2:CP:105:SER:HA	2.01	0.42
1:Ay:290:THR:HG22	1:BK:60:ILE:HG23	2.01	0.42
1:BA:282:ASN:HB3	1:BA:296:TYR:HB2	2.01	0.42
1:BC:57:PRO:HB2	1:BF:84:LEU:HB3	2.01	0.42
1:BF:129:LEU:HD11	1:BF:139:VAL:HG13	2.02	0.42
1:BJ:26:TYR:O	5:ET:218:TYR:OH	2.30	0.42
1:BP:257:HIS:ND1	1:BP:318:GLN:HG3	2.35	0.42
1:BQ:13:VAL:HG13	1:BQ:119:TYR:CE2	2.54	0.42
1:BW:196:GLU:OE1	1:BW:265:ASN:ND2	2.52	0.42
1:Bb:181:PHE:CZ	1:Bb:234:LEU:HB2	2.54	0.42
1:Bc:80:ASN:C	1:Bc:81:TYR:HD1	2.28	0.42
1:Be:80:ASN:ND2	1:Be:154:ASN:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Be:196:GLU:HB3	1:Be:265:ASN:HD22	1.84	0.42
2:Bf:183:ILE:H	2:Bh:183:ILE:H	1.67	0.42
2:By:114:THR:O	2:Bz:114:THR:HB	2.20	0.42
2:CD:76:SER:HB3	2:CD:87:GLU:HG2	2.01	0.42
2:CO:153:LYS:HG3	2:CO:154:SER:H	1.85	0.42
2:CP:56:LYS:HD2	2:CQ:56:LYS:HA	2.01	0.42
2:CU:120:TYR:CE1	2:CU:174:LEU:HB2	2.54	0.42
2:CW:137:LEU:HB3	2:CW:145:LEU:HD22	2.00	0.42
4:DH:107:ASP:OD1	4:DH:108:ILE:N	2.52	0.42
1:Ew:108:ILE:HG22	4:Ha:27:HIS:HE1	1.84	0.42
1:Ez:164:GLN:OE1	1:Ez:311:ILE:N	2.51	0.42
1:FD:57:PRO:HG2	1:FH:84:LEU:HD13	2.01	0.42
1:FG:31:PRO:HG3	5:IQ:218:TYR:CG	2.55	0.42
1:FW:65:ASN:ND2	2:Gu:57:ASP:O	2.51	0.42
1:Fd:41:MET:HE3	1:Fd:83:LYS:HB3	2.00	0.42
1:Fm:55:ALA:HA	1:GD:141:ILE:HD13	2.01	0.42
1:Fo:307:THR:HG22	4:Hp:32:LEU:HB2	2.01	0.42
1:Fw:201:MET:HE3	1:Fw:201:MET:HB3	1.93	0.42
1:GF:13:VAL:HG13	1:GF:119:TYR:CE2	2.54	0.42
1:GP:253:ASN:OD1	1:GP:253:ASN:N	2.52	0.42
2:Gm:165:LYS:HB2	2:Gm:171:PHE:CE2	2.53	0.42
2:Gr:155:VAL:HG12	2:Gr:178:PHE:HZ	1.82	0.42
2:HB:77:PHE:CE1	2:HB:84:LEU:HD13	2.54	0.42
2:HB:166:LEU:HB2	2:HB:170:LEU:HD23	2.00	0.42
2:HD:153:LYS:HG3	2:HD:154:SER:H	1.85	0.42
3:HY:184:ASN:HB3	3:HY:190:ILE:HD13	2.02	0.42
4:Hf:43:VAL:O	4:Hf:43:VAL:HG13	2.19	0.42
4:Ho:142:ILE:HG13	4:Ho:152:VAL:HG22	2.01	0.42
4:Hp:25:PRO:HB2	4:Hp:27:HIS:CD2	2.55	0.42
4:Hp:43:VAL:O	4:Hp:43:VAL:HG13	2.19	0.42
5:Iq:211:LYS:HG3	5:Iq:214:ARG:HH21	1.85	0.42
5:Jd:189:LEU:HD11	5:Jd:206:ILE:HG12	2.00	0.42
1:Je:132:HIS:HA	1:Je:254:LEU:HD13	2.01	0.42
1:Jm:192:GLU:HB3	2:QK:36:ILE:HD11	2.01	0.42
1:Jt:194:GLY:HA3	4:MR:36:ASN:HB2	1.99	0.42
1:Jw:66:THR:HG22	2:Ld:52:CYS:HB3	2.01	0.42
1:Jw:283:GLU:HB2	5:NG:199:PHE:CD2	2.54	0.42
1:KF:57:PRO:HD2	1:Ov:149:LYS:HD2	2.00	0.42
1:KJ:169:VAL:HG22	1:KJ:183:LYS:HG3	2.02	0.42
1:KK:201:MET:HE3	1:KK:201:MET:HB3	1.95	0.42
1:KN:275:LYS:HE3	1:KN:276:TYR:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KT:112:LEU:HD21	1:KT:292:VAL:HG22	2.01	0.42
1:KY:43:TYR:HB2	1:KY:78:ARG:HG3	2.01	0.42
1:KZ:143:LYS:HE2	4:Md:37:GLU:HG2	2.02	0.42
1:Kg:163:GLU:HB3	1:Kg:308:ARG:HG3	2.01	0.42
1:Km:165:ILE:HD13	1:Km:191:LEU:HD23	2.01	0.42
1:Kr:163:GLU:HB2	4:Mf:31:LEU:HD12	2.01	0.42
1:Kr:178:ASP:N	1:Kr:178:ASP:OD1	2.52	0.42
1:Ku:239:LYS:HA	1:Ku:242:ASN:OD1	2.19	0.42
1:LB:259:ILE:HB	1:LB:314:VAL:HB	2.02	0.42
1:LF:57:PRO:HB2	1:Pr:84:LEU:HD13	2.02	0.42
2:LK:166:LEU:HD11	2:LK:172:ILE:HD13	2.01	0.42
2:LX:165:LYS:HE3	2:LX:168:GLU:HA	2.02	0.42
2:Lb:120:TYR:CE1	2:Lb:174:LEU:HB2	2.55	0.42
2:Lw:156:ASN:HB3	2:Lw:178:PHE:CZ	2.54	0.42
2:Ly:69:TYR:HB2	2:Ly:101:ILE:HD12	2.01	0.42
2:MI:167:THR:HG22	2:MI:168:GLU:H	1.84	0.42
2:MK:137:LEU:HB3	2:MK:145:LEU:HD22	2.02	0.42
4:MW:166:LEU:HD12	4:MW:180:LYS:HE2	2.00	0.42
4:Mc:22:MET:HB3	4:Mc:23:LYS:H	1.55	0.42
4:Ml:43:VAL:O	4:Ml:43:VAL:HG13	2.18	0.42
1:OY:290:THR:HG22	1:OZ:60:ILE:HG23	2.01	0.42
1:Ok:31:PRO:HG3	5:Ru:218:TYR:CG	2.54	0.42
1:Oz:66:THR:HA	3:RC:100:SER:HB2	2.00	0.42
1:PM:113:LEU:HD11	1:UE:49:TRP:CE3	2.54	0.42
1:PM:196:GLU:HB3	1:PM:265:ASN:ND2	2.34	0.42
1:PU:33:GLN:HG2	1:PU:266:SER:HA	2.01	0.42
1:PV:13:VAL:HA	1:PV:16:ILE:HG22	2.01	0.42
1:PV:39:LEU:O	1:PV:274:SER:OG	2.32	0.42
1:PV:57:PRO:HB2	1:PY:84:LEU:HB3	2.01	0.42
1:Pd:96:GLU:O	1:Pd:100:THR:HG23	2.20	0.42
1:Pe:96:GLU:O	1:Pe:100:THR:HG23	2.19	0.42
1:Pe:175:ASP:HA	1:Pe:212:LYS:NZ	2.34	0.42
1:Pg:162:PRO:O	4:RU:31:LEU:HD11	2.19	0.42
1:Pm:96:GLU:O	1:Pm:100:THR:HG23	2.19	0.42
1:Po:147:ASN:H	4:Ra:88:HIS:CD2	2.37	0.42
1:Pw:49:TRP:CH2	1:Pw:74:SER:HB3	2.54	0.42
2:QA:57:ASP:O	1:TJ:65:ASN:ND2	2.52	0.42
2:QK:153:LYS:HA	2:QK:181:ARG:HH21	1.85	0.42
2:QZ:138:ASN:HD22	2:QZ:153:LYS:HE2	1.84	0.42
2:Qd:133:PRO:HD3	2:Qd:162:LYS:HG2	2.02	0.42
2:Qy:181:ARG:NH1	2:Qz:94:LEU:HB3	2.29	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RJ:43:VAL:O	4:RJ:43:VAL:HG13	2.19	0.42
1:TN:13:VAL:HG11	1:TN:281:PRO:HG2	2.01	0.42
1:TN:87:LYS:NZ	2:Ur:53:THR:O	2.44	0.42
1:TP:28:TRP:CZ3	1:TP:135:LEU:HB2	2.54	0.42
1:TW:57:PRO:HG2	1:Ta:84:LEU:HD13	2.01	0.42
1:TW:260:LEU:HD23	1:TW:260:LEU:HA	1.91	0.42
1:Ta:163:GLU:HB2	2:VH:31:LEU:CD2	2.49	0.42
1:Tc:31:PRO:HG3	5:Wm:218:TYR:CD1	2.55	0.42
1:Ti:85:GLN:HB3	1:Ug:60:ILE:HD11	2.00	0.42
1:Tz:201:MET:HE3	1:Tz:201:MET:HB3	1.94	0.42
1:UG:49:TRP:CZ3	1:UG:74:SER:HB3	2.54	0.42
1:UH:26:TYR:O	5:XR:218:TYR:OH	2.38	0.42
1:UK:13:VAL:HA	1:UK:16:ILE:HG22	2.01	0.42
1:UQ:96:GLU:O	1:UQ:100:THR:HG23	2.19	0.42
1:US:49:TRP:CH2	1:US:74:SER:HB3	2.54	0.42
1:US:57:PRO:HB2	1:UV:84:LEU:HD13	2.01	0.42
1:Ud:178:ASP:OD1	1:Ud:178:ASP:N	2.53	0.42
1:Uf:259:ILE:HB	1:Uf:314:VAL:HB	2.02	0.42
1:Uh:96:GLU:O	1:Uh:100:THR:HG23	2.20	0.42
1:Ui:253:ASN:OD1	1:Ui:253:ASN:N	2.52	0.42
2:Up:120:TYR:CE1	2:Up:174:LEU:HB2	2.53	0.42
2:Uy:156:ASN:HB3	2:Uy:178:PHE:CZ	2.54	0.42
2:VX:30:GLY:O	2:VX:31:LEU:HD23	2.19	0.42
2:Vb:77:PHE:HB2	4:WK:138:LYS:HE2	2.01	0.42
2:Vc:120:TYR:CE1	2:Vc:174:LEU:HB2	2.55	0.42
2:Vf:165:LYS:HE3	2:Vf:168:GLU:HA	2.00	0.42
2:Vl:148:VAL:HG21	2:Vl:155:VAL:HG12	2.01	0.42
4:WN:43:VAL:O	4:WN:43:VAL:HG13	2.19	0.42
5:Wc:189:LEU:HD11	5:Wc:206:ILE:HG12	2.01	0.42
6:Xx:273:THR:HB	6:Xx:276:ALA:HB2	2.01	0.42
6:Xy:73:TYR:CE2	6:Xy:150:ASN:HB2	2.55	0.42
6:Xy:196:SER:OG	6:Xy:197:LEU:N	2.52	0.42
6:Xy:305:GLU:OE1	6:Xy:308:THR:N	2.42	0.42
6:YF:290:GLU:O	6:YF:294:LEU:HG	2.19	0.42
6:YG:13:ILE:HG21	6:YG:167:LEU:HB3	2.01	0.42
6:YH:299:ILE:O	6:YH:303:THR:HG22	2.20	0.42
5:YV:77:LEU:O	5:YV:81:GLU:HG2	2.20	0.42
5:YZ:119:ARG:HG2	5:YZ:140:ILE:HG22	2.01	0.42
5:ZJ:76:LEU:HD22	5:ZK:76:LEU:HD21	2.01	0.42
5:ZJ:128:ILE:HA	5:ZJ:131:ILE:HD12	2.02	0.42
5:ZW:153:SER:HB2	5:ZX:133:ALA:HB1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Za:72:ILE:O	5:Za:76:LEU:HG	2.19	0.42
5:Za:131:ILE:HD13	5:Za:140:ILE:HD11	2.02	0.42
5:Zc:94:LEU:HD13	5:Zc:120:GLU:OE1	2.19	0.42
5:Zg:111:LYS:HZ1	5:Zj:74:LYS:HE3	1.84	0.42
5:Zn:112:ASP:OD1	5:Zn:115:GLN:NE2	2.49	0.42
5:Zw:94:LEU:HD11	5:Zw:121:LEU:HG	2.00	0.42
5:aF:112:ASP:OD1	5:aF:115:GLN:NE2	2.48	0.42
5:aJ:76:LEU:HD23	5:aJ:79:GLU:OE2	2.20	0.42
5:aO:99:ASN:HB3	5:aO:102:VAL:HG22	2.02	0.42
5:aP:118:ARG:O	5:aP:122:VAL:HG23	2.18	0.42
5:aR:76:LEU:HD23	5:aR:79:GLU:OE2	2.20	0.42
5:aa:94:LEU:HD11	5:aa:121:LEU:HG	2.01	0.42
5:ad:76:LEU:HD23	5:ad:79:GLU:OE2	2.20	0.42
5:av:76:LEU:HD23	5:av:79:GLU:OE2	2.19	0.42
5:aw:99:ASN:HB3	5:aw:102:VAL:HG22	2.02	0.42
5:bC:99:ASN:HB3	5:bC:102:VAL:HG22	2.01	0.42
5:bO:94:LEU:HD11	5:bO:121:LEU:HG	2.00	0.42
5:bQ:86:ILE:HD11	5:bQ:118:ARG:HE	1.83	0.42
5:bS:57:GLU:HA	5:bS:60:THR:HG22	2.02	0.42
5:bX:76:LEU:HD23	5:bX:79:GLU:OE2	2.19	0.42
5:bl:76:LEU:HD23	5:bl:79:GLU:OE2	2.20	0.42
5:cB:76:LEU:HD23	5:cB:79:GLU:OE2	2.19	0.42
5:cJ:76:LEU:HD23	5:cJ:79:GLU:OE2	2.20	0.42
5:cK:55:ILE:HG21	5:cq:116:ALA:HB2	2.00	0.42
5:cX:136:LYS:HE3	5:cX:136:LYS:HB2	1.89	0.42
5:ca:153:SER:HB2	5:cb:133:ALA:HB1	2.01	0.42
5:ck:57:GLU:HA	5:ck:60:THR:HG22	2.01	0.42
5:ct:76:LEU:HD23	5:ct:79:GLU:OE2	2.20	0.42
5:cy:72:ILE:O	5:cy:76:LEU:HG	2.18	0.42
5:dA:99:ASN:HB3	5:dA:102:VAL:HG22	2.01	0.42
5:dC:72:ILE:O	5:dC:76:LEU:HG	2.18	0.42
5:dF:118:ARG:O	5:dF:122:VAL:HG23	2.18	0.42
5:dK:94:LEU:HD11	5:dK:121:LEU:HG	2.01	0.42
5:dN:76:LEU:HD23	5:dN:79:GLU:OE2	2.19	0.42
5:dO:72:ILE:O	5:dO:76:LEU:HG	2.18	0.42
5:dW:57:GLU:HA	5:dW:60:THR:HG22	2.00	0.42
5:dX:76:LEU:HD23	5:dX:79:GLU:OE2	2.19	0.42
5:db:122:VAL:HG11	5:db:151:LEU:HD13	2.00	0.42
5:de:57:GLU:HA	5:de:60:THR:HG22	2.01	0.42
5:dh:76:LEU:HD23	5:dh:79:GLU:OE2	2.19	0.42
5:dw:63:LEU:HD11	5:ef:136:LYS:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eI:75:GLN:O	5:eI:79:GLU:HG2	2.19	0.42
5:eJ:143:ILE:HD12	5:eJ:143:ILE:HA	1.92	0.42
5:eW:131:ILE:HD13	5:eW:140:ILE:HD11	2.01	0.42
5:eq:99:ASN:HB3	5:eq:102:VAL:HG22	2.02	0.42
5:eu:72:ILE:O	5:eu:76:LEU:HG	2.18	0.42
5:ew:99:ASN:HB3	5:ew:102:VAL:HG22	2.02	0.42
5:fA:94:LEU:HD11	5:fA:121:LEU:HG	2.00	0.42
5:fH:112:ASP:OD1	5:fH:115:GLN:NE2	2.49	0.42
1:AP:41:MET:HE3	1:AP:82:LEU:HD12	2.02	0.42
1:AV:194:GLY:HA3	2:Bn:36:ILE:HD12	2.01	0.42
1:AV:196:GLU:HB3	1:AV:265:ASN:HD22	1.84	0.42
1:AW:24:ILE:HG12	1:AW:131:ASN:ND2	2.34	0.42
1:Ai:67:ILE:HD13	1:Ty:85:GLN:HE21	1.84	0.42
1:Aj:96:GLU:O	1:Aj:100:THR:HG23	2.19	0.42
1:Aq:49:TRP:CE3	1:Aq:74:SER:HB3	2.54	0.42
1:Ar:308:ARG:H	2:Gs:34:ASN:ND2	2.16	0.42
1:Au:158:LEU:HB3	1:Au:260:LEU:HD21	2.02	0.42
1:Au:256:LYS:HG2	1:Au:257:HIS:CD2	2.54	0.42
1:Ay:175:ASP:HA	1:Ay:212:LYS:NZ	2.34	0.42
1:Ay:239:LYS:NZ	1:Ay:245:GLU:O	2.43	0.42
1:BD:306:ALA:O	2:CZ:31:LEU:HD22	2.20	0.42
1:BE:87:LYS:NZ	2:CV:53:THR:O	2.34	0.42
1:BG:257:HIS:CE1	1:BG:318:GLN:HG3	2.54	0.42
1:BL:253:ASN:OD1	1:BL:253:ASN:N	2.52	0.42
1:BQ:286:ASP:HB2	1:BQ:294:HIS:HB2	2.01	0.42
1:BR:39:LEU:HD21	1:BR:81:TYR:CE2	2.54	0.42
1:BV:21:LYS:NZ	1:BW:195:ASP:OD2	2.49	0.42
1:BW:317:LYS:NZ	1:BW:319:SER:OXT	2.47	0.42
1:BZ:96:GLU:O	1:BZ:100:THR:HG23	2.19	0.42
1:Ba:80:ASN:ND2	1:Ba:154:ASN:HB2	2.35	0.42
1:Bc:163:GLU:HB2	4:Cs:31:LEU:HD12	2.02	0.42
1:Be:166:LYS:HE2	1:Be:166:LYS:HB3	1.88	0.42
2:Br:36:ILE:HD11	1:TQ:192:GLU:HB3	2.01	0.42
2:Bx:120:TYR:CE1	2:Bx:174:LEU:HB2	2.55	0.42
2:CP:30:GLY:O	2:CP:31:LEU:HD23	2.19	0.42
2:CY:156:ASN:HB3	2:CY:178:PHE:CZ	2.53	0.42
2:Cg:140:ASN:HD21	2:Cg:144:GLU:HB2	1.83	0.42
4:DC:120:ILE:HD12	4:DC:120:ILE:HA	1.94	0.42
4:DJ:43:VAL:O	4:DJ:43:VAL:HG13	2.19	0.42
1:Ex:67:ILE:HD13	1:Ju:85:GLN:HE21	1.85	0.42
1:Ey:96:GLU:O	1:Ey:100:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FH:66:THR:HG22	2:Go:52:CYS:HB3	2.01	0.42
1:FP:86:TYR:OH	1:GN:55:ALA:O	2.32	0.42
1:FY:253:ASN:OD1	1:FY:253:ASN:N	2.52	0.42
1:Fe:253:ASN:OD1	1:Fe:253:ASN:N	2.52	0.42
1:Fg:19:GLU:HA	1:Fg:120:LYS:HD3	2.01	0.42
1:Fr:163:GLU:HB3	1:Fr:308:ARG:HG3	2.01	0.42
1:Fu:129:LEU:HD11	1:Fu:139:VAL:HG13	2.02	0.42
1:GC:196:GLU:HB3	1:GC:265:ASN:HD22	1.85	0.42
1:GF:239:LYS:HA	1:GF:242:ASN:OD1	2.19	0.42
1:GI:77:VAL:HA	2:HV:29:SER:O	2.19	0.42
1:GI:96:GLU:O	1:GI:100:THR:HG23	2.19	0.42
1:GK:147:ASN:H	4:Hw:88:HIS:HD2	1.68	0.42
1:GQ:20:VAL:HG23	5:Ja:213:ARG:HH22	1.85	0.42
1:GR:80:ASN:C	1:GR:81:TYR:HD1	2.28	0.42
1:GR:166:LYS:HE2	1:GR:313:GLN:OE1	2.19	0.42
2:Gh:120:TYR:CE1	2:Gh:174:LEU:HB2	2.55	0.42
2:Gv:138:ASN:HD22	2:Gv:153:LYS:HE2	1.84	0.42
2:Gw:63:PRO:HB2	2:Gw:85:GLU:HG2	2.02	0.42
2:Gz:160:LEU:HD11	2:Gz:176:SER:HB2	2.02	0.42
2:HN:133:PRO:HG3	2:HN:161:SER:HA	2.01	0.42
2:HO:182:ALA:HB3	2:HP:183:ILE:HD12	2.01	0.42
2:HX:133:PRO:HG3	2:HX:161:SER:HA	2.02	0.42
4:Hj:64:PHE:CZ	4:Hj:108:ILE:HD11	2.54	0.42
4:Hv:37:GLU:O	4:Hv:41:LYS:HD2	2.19	0.42
1:Jm:67:ILE:HD13	1:Oj:85:GLN:HE21	1.84	0.42
1:Jr:57:PRO:HA	1:Jv:86:TYR:CE1	2.53	0.42
1:Jw:41:MET:HE2	1:Jw:83:LYS:HB3	2.02	0.42
1:KA:107:ASP:OD2	1:KA:110:ASN:ND2	2.28	0.42
1:KD:49:TRP:CE3	1:KD:74:SER:HB3	2.55	0.42
1:KD:181:PHE:CZ	1:KD:234:LEU:HB2	2.55	0.42
1:KM:100:THR:HG22	1:KM:105:ILE:HG12	2.01	0.42
1:KY:256:LYS:HG2	1:KY:257:HIS:CD2	2.54	0.42
1:Kc:178:ASP:OD1	1:Kc:178:ASP:N	2.52	0.42
1:Ke:87:LYS:O	1:Kn:69:THR:HA	2.20	0.42
1:Kf:91:LEU:HD21	1:Kf:112:LEU:HD13	2.02	0.42
1:Kg:161:MET:SD	4:Mh:31:LEU:HD21	2.60	0.42
1:Km:286:ASP:HB2	1:Km:294:HIS:HB2	2.01	0.42
1:Kt:257:HIS:ND1	1:Kt:318:GLN:HG3	2.34	0.42
1:Ku:84:LEU:HD13	1:LE:57:PRO:HB2	2.00	0.42
1:Ku:288:ASP:OD1	1:Ku:289:SER:N	2.45	0.42
1:Ky:24:ILE:HG12	1:Ky:131:ASN:ND2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LC:66:THR:HG22	2:Lc:52:CYS:HB3	2.02	0.42
1:LH:178:ASP:OD1	1:LH:178:ASP:N	2.51	0.42
1:LH:259:ILE:HB	1:LH:314:VAL:HB	2.02	0.42
2:LN:140:ASN:OD1	2:LN:144:GLU:N	2.49	0.42
2:LR:140:ASN:ND2	2:LR:144:GLU:HB2	2.34	0.42
2:LU:167:THR:HB	2:LU:170:LEU:HB3	2.01	0.42
2:Lq:77:PHE:CE1	2:Lq:84:LEU:HD13	2.54	0.42
2:Ls:75:LEU:HD22	2:Ls:84:LEU:HD13	2.01	0.42
2:Lt:30:GLY:O	2:Lt:31:LEU:HD23	2.19	0.42
3:MN:172:ASN:HB3	3:MN:175:ILE:HD11	2.01	0.42
1:Oc:17:ILE:HG21	5:Rm:189:LEU:HD12	2.01	0.42
1:Oi:286:ASP:HB2	1:Oi:294:HIS:HB2	2.00	0.42
1:Oo:49:TRP:CH2	1:Oo:74:SER:HB3	2.54	0.42
1:Ot:86:TYR:OH	1:Pr:55:ALA:O	2.32	0.42
1:Ox:26:TYR:O	5:SH:218:TYR:OH	2.30	0.42
1:PK:239:LYS:NZ	1:PK:245:GLU:O	2.52	0.42
1:PO:81:TYR:OH	1:PO:272:LYS:O	2.30	0.42
1:PR:290:THR:HG22	1:Pd:60:ILE:HG23	2.01	0.42
1:PY:129:LEU:HD11	1:PY:139:VAL:HG13	2.02	0.42
1:Pn:24:ILE:HG12	1:Pn:131:ASN:ND2	2.33	0.42
1:Pn:257:HIS:ND1	1:Pn:318:GLN:HG3	2.35	0.42
1:Ps:96:GLU:O	1:Ps:100:THR:HG23	2.20	0.42
2:Py:156:ASN:HB2	2:Py:178:PHE:O	2.19	0.42
2:QN:116:ASN:OD1	2:QO:58:LYS:HE2	2.19	0.42
2:QQ:120:TYR:CE1	2:QQ:174:LEU:HB2	2.55	0.42
4:RG:142:ILE:HG13	4:RG:152:VAL:HG22	2.02	0.42
4:Ra:107:ASP:OD1	4:Ra:108:ILE:N	2.52	0.42
5:SU:211:LYS:HG3	5:SU:214:ARG:HH21	1.85	0.42
5:TH:189:LEU:HD11	5:TH:206:ILE:HG12	2.00	0.42
1:TL:132:HIS:HA	1:TL:254:LEU:HD13	2.01	0.42
1:TM:96:GLU:O	1:TM:100:THR:HG23	2.19	0.42
1:TS:196:GLU:HB3	1:TS:265:ASN:HD22	1.83	0.42
1:TT:96:GLU:O	1:TT:100:THR:HG23	2.20	0.42
1:TZ:205:VAL:HG12	1:TZ:259:ILE:HG23	2.01	0.42
1:Ta:41:MET:HE2	1:Ta:83:LYS:HB3	2.02	0.42
1:Th:110:ASN:ND2	1:Ug:62:ASN:OD1	2.52	0.42
1:To:80:ASN:ND2	1:To:153:PRO:O	2.50	0.42
1:Tt:57:PRO:HA	1:UE:86:TYR:HE1	1.84	0.42
1:Tw:201:MET:HE3	1:Tw:201:MET:HB3	1.96	0.42
1:Ty:39:LEU:O	1:Ty:274:SER:OG	2.25	0.42
1:Ty:97:LYS:HE2	1:Ty:97:LYS:HB3	1.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UA:286:ASP:HB2	1:UA:294:HIS:HB2	2.02	0.42
1:UH:143:LYS:HA	2:Va:39:ARG:HE	1.84	0.42
1:UJ:113:LEU:HD11	1:UT:49:TRP:CE3	2.55	0.42
1:UN:129:LEU:HD11	1:UN:139:VAL:HG13	2.02	0.42
1:UO:31:PRO:HG3	5:XY:218:TYR:CD1	2.53	0.42
1:UR:26:TYR:O	5:Xb:218:TYR:OH	2.30	0.42
1:UW:178:ASP:OD1	1:UW:178:ASP:N	2.52	0.42
1:Ui:54:ASN:HD22	1:Ui:69:THR:C	2.28	0.42
1:Ui:80:ASN:ND2	1:Ui:154:ASN:HB2	2.35	0.42
1:Uj:158:LEU:HB3	1:Uj:260:LEU:HD21	2.00	0.42
1:Uk:174:LYS:HG3	1:Uk:175:ASP:OD1	2.20	0.42
1:Um:80:ASN:ND2	1:Um:154:ASN:HB2	2.35	0.42
2:VK:64:ALA:HB2	2:VK:108:ALA:HB2	2.01	0.42
2:VT:180:ASN:O	2:VU:180:ASN:ND2	2.53	0.42
2:Vh:182:ALA:HB3	2:Vi:183:ILE:HD12	2.01	0.42
4:Vy:43:VAL:O	4:Vy:43:VAL:HG13	2.19	0.42
5:Xu:189:LEU:HD11	5:Xu:206:ILE:HG12	2.01	0.42
6:Xy:299:ILE:O	6:Xy:303:THR:HG22	2.19	0.42
6:Xz:168:LEU:HD11	6:YA:181:GLU:HG3	2.02	0.42
6:Xz:290:GLU:O	6:Xz:294:LEU:HG	2.19	0.42
6:YA:73:TYR:CE2	6:YA:150:ASN:HB2	2.55	0.42
6:YB:73:TYR:CE2	6:YB:150:ASN:HB2	2.55	0.42
6:YD:299:ILE:O	6:YD:303:THR:HG22	2.19	0.42
6:YE:290:GLU:O	6:YE:294:LEU:HG	2.19	0.42
5:YL:86:ILE:HD13	5:YL:118:ARG:HE	1.85	0.42
5:YR:53:LEU:HD23	5:Yi:144:ASP:O	2.20	0.42
5:YU:57:GLU:HA	5:YU:60:THR:HG22	2.02	0.42
5:YY:136:LYS:HE3	5:YY:136:LYS:HB2	1.84	0.42
5:YZ:79:GLU:O	5:YZ:83:ILE:HG12	2.19	0.42
5:Yc:99:ASN:O	5:Yc:103:LEU:HG	2.19	0.42
5:Ys:94:LEU:HD11	5:Ys:121:LEU:HG	2.01	0.42
5:Yt:112:ASP:OD1	5:Yt:115:GLN:NE2	2.49	0.42
5:Yx:143:ILE:HD12	5:Yx:143:ILE:HA	1.89	0.42
5:Yy:72:ILE:O	5:Yy:76:LEU:HG	2.19	0.42
5:ZC:157:VAL:HG13	5:ZD:129:GLU:HB2	2.00	0.42
5:ZO:72:ILE:O	5:ZO:76:LEU:HG	2.19	0.42
5:ZR:76:LEU:HD23	5:ZR:79:GLU:OE2	2.20	0.42
5:ZY:113:ILE:O	5:ZY:117:GLN:HG2	2.20	0.42
5:Zg:153:SER:HB2	5:Zh:133:ALA:HB1	2.00	0.42
5:Zh:76:LEU:HD23	5:Zh:79:GLU:OE2	2.19	0.42
5:Zi:57:GLU:HA	5:Zi:60:THR:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Zj:76:LEU:HD23	5:Zj:79:GLU:OE2	2.20	0.42
5:Zq:153:SER:HB2	5:Zr:133:ALA:HB1	2.00	0.42
5:Zt:76:LEU:HD23	5:Zt:79:GLU:OE2	2.19	0.42
5:aB:76:LEU:HD23	5:aB:79:GLU:OE2	2.20	0.42
5:aG:62:GLU:OE1	5:am:97:HIS:NE2	2.52	0.42
5:aI:57:GLU:HA	5:aI:60:THR:HG22	2.02	0.42
5:aK:57:GLU:HA	5:aK:60:THR:HG22	2.02	0.42
5:aL:76:LEU:HD23	5:aL:79:GLU:OE2	2.20	0.42
5:aM:99:ASN:HB3	5:aM:102:VAL:HG22	2.02	0.42
5:aQ:99:ASN:HB3	5:aQ:102:VAL:HG22	2.02	0.42
5:aT:143:ILE:HD12	5:aT:143:ILE:HA	1.91	0.42
5:ah:136:LYS:HE3	5:ah:136:LYS:HB2	1.90	0.42
5:ay:57:GLU:HA	5:ay:60:THR:HG22	2.02	0.42
5:bC:111:LYS:HZ2	5:bF:74:LYS:HE3	1.84	0.42
5:bP:118:ARG:O	5:bP:122:VAL:HG23	2.18	0.42
5:bS:111:LYS:HZ2	5:bV:74:LYS:HE3	1.84	0.42
5:bU:86:ILE:HD11	5:bU:118:ARG:HE	1.83	0.42
5:ba:57:GLU:HA	5:ba:60:THR:HG22	2.01	0.42
5:bd:76:LEU:HD23	5:bd:79:GLU:OE2	2.20	0.42
5:bi:111:LYS:HZ2	5:bl:74:LYS:HE3	1.85	0.42
5:bj:76:LEU:HD23	5:bj:79:GLU:OE2	2.20	0.42
5:bm:153:SER:HB2	5:bn:133:ALA:HB1	2.01	0.42
5:bz:76:LEU:HD23	5:bz:79:GLU:OE2	2.19	0.42
5:cY:99:ASN:O	5:cY:103:LEU:HG	2.19	0.42
5:cc:57:GLU:HA	5:cc:60:THR:HG22	2.02	0.42
5:ch:76:LEU:HD23	5:ch:79:GLU:OE2	2.19	0.42
5:cj:76:LEU:HD23	5:cj:79:GLU:OE2	2.19	0.42
5:cz:112:ASP:OD1	5:cz:115:GLN:NE2	2.49	0.42
5:cz:143:ILE:HD12	5:cz:143:ILE:HA	1.92	0.42
5:dI:111:LYS:HZ2	5:dL:74:LYS:HE3	1.83	0.42
5:di:99:ASN:HB3	5:di:102:VAL:HG22	2.01	0.42
5:dq:94:LEU:HD11	5:dq:121:LEU:HG	2.01	0.42
5:du:113:ILE:O	5:du:117:GLN:HG2	2.19	0.42
5:dv:76:LEU:HD23	5:dv:79:GLU:OE2	2.20	0.42
5:dw:113:ILE:O	5:dw:117:GLN:HG2	2.19	0.42
5:dy:72:ILE:O	5:dy:76:LEU:HG	2.18	0.42
5:dy:113:ILE:O	5:dy:117:GLN:HG2	2.19	0.42
5:eC:63:LEU:HD11	5:el:136:LYS:HD2	2.00	0.42
5:eM:113:ILE:O	5:eM:117:GLN:HG2	2.20	0.42
5:eM:131:ILE:HD13	5:eM:140:ILE:HD11	2.02	0.42
5:eN:76:LEU:HD23	5:eN:79:GLU:OE2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eY:94:LEU:HD11	5:eY:121:LEU:HG	2.01	0.42
5:eY:99:ASN:HB3	5:eY:102:VAL:HG22	2.01	0.42
5:eb:136:LYS:HE3	5:eb:136:LYS:HB2	1.71	0.42
5:ee:131:ILE:HD13	5:ee:140:ILE:HD11	2.01	0.42
5:ez:122:VAL:HG11	5:ez:151:LEU:HD13	2.00	0.42
5:fB:112:ASP:OD1	5:fB:115:GLN:NE2	2.48	0.42
5:fQ:57:GLU:HA	5:fQ:60:THR:HG22	2.02	0.42
5:fQ:94:LEU:HD11	5:fQ:121:LEU:HG	2.01	0.42
5:fQ:99:ASN:HB3	5:fQ:102:VAL:HG22	2.02	0.42
5:ft:136:LYS:HE3	5:ft:136:LYS:HB2	1.90	0.42
5:fw:94:LEU:HD11	5:fw:121:LEU:HG	2.00	0.42
1:AG:8:TYR:CG	1:AG:93:GLN:HG3	2.54	0.42
1:AW:87:LYS:NZ	2:Bv:53:THR:O	2.33	0.42
1:AX:59:THR:HG1	1:Bd:149:LYS:HZ1	1.65	0.42
1:Ae:181:PHE:CZ	1:Ae:234:LEU:HB2	2.55	0.42
1:Ag:80:ASN:ND2	1:Ag:153:PRO:O	2.50	0.42
1:Ah:84:LEU:HB3	1:Tz:57:PRO:HB2	2.01	0.42
1:An:80:ASN:ND2	1:An:153:PRO:O	2.33	0.42
1:Ax:31:PRO:HA	5:EH:218:TYR:CE2	2.55	0.42
1:Az:26:TYR:O	5:EJ:218:TYR:OH	2.38	0.42
1:BB:113:LEU:HD11	1:BL:49:TRP:CE3	2.54	0.42
1:BB:191:LEU:HD23	1:BB:191:LEU:HA	1.94	0.42
1:BD:286:ASP:HB2	1:BD:294:HIS:HB2	2.01	0.42
1:BI:178:ASP:OD1	1:BI:178:ASP:N	2.53	0.42
1:BK:96:GLU:O	1:BK:100:THR:HG23	2.20	0.42
1:BN:39:LEU:O	1:BN:274:SER:OG	2.29	0.42
1:BN:278:LEU:HD12	5:EX:210:TYR:CG	2.55	0.42
1:BO:196:GLU:HB3	1:BO:265:ASN:HD22	1.85	0.42
1:BR:223:ALA:HA	1:Fq:223:ALA:HB3	2.01	0.42
1:BT:77:VAL:HA	2:Cg:29:SER:O	2.19	0.42
1:BU:78:ARG:O	1:BU:154:ASN:ND2	2.35	0.42
1:BV:306:ALA:O	4:DG:31:LEU:HB2	2.20	0.42
1:Bb:20:VAL:HG23	5:El:213:ARG:HH22	1.85	0.42
1:Bd:259:ILE:HB	1:Bd:314:VAL:HB	2.02	0.42
2:Bf:52:CYS:SG	1:TI:66:THR:HG22	2.59	0.42
2:Bq:156:ASN:HB3	2:Bq:178:PHE:CZ	2.54	0.42
2:CG:23:LYS:N	2:CG:67:TYR:OH	2.52	0.42
2:CQ:137:LEU:HB3	2:CQ:145:LEU:HD22	2.01	0.42
2:CW:134:GLY:HA2	4:DD:77:ILE:HD13	2.00	0.42
2:Cd:157:ALA:HB2	2:Cd:177:VAL:HG22	2.00	0.42
2:Cg:23:LYS:N	2:Cg:67:TYR:OH	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Cz:141:LEU:HD13	4:Cz:149:LEU:HB3	2.02	0.42
5:EB:211:LYS:HG3	5:EB:214:ARG:HH21	1.85	0.42
5:ES:211:LYS:HG3	5:ES:214:ARG:NH2	2.34	0.42
1:Ey:275:LYS:HE3	1:Ey:276:TYR:CZ	2.55	0.42
1:FD:306:ALA:O	4:He:31:LEU:HB2	2.18	0.42
1:FH:79:LEU:HD23	1:FH:79:LEU:HA	1.90	0.42
1:FI:286:ASP:HB2	1:FI:294:HIS:HB2	2.01	0.42
1:FK:194:GLY:HA3	2:Gc:36:ILE:HD12	2.01	0.42
1:FO:146:LYS:HB3	4:Hh:88:HIS:HD2	1.85	0.42
1:Fm:31:PRO:HA	5:Iw:218:TYR:CE2	2.55	0.42
1:Ft:49:TRP:CH2	1:Ft:74:SER:HB3	2.55	0.42
1:GA:253:ASN:OD1	1:GA:253:ASN:N	2.52	0.42
1:GF:286:ASP:HB2	1:GF:294:HIS:HB2	2.01	0.42
1:GK:175:ASP:HA	1:GK:212:LYS:NZ	2.35	0.42
1:GR:181:PHE:CZ	1:GR:234:LEU:HB2	2.54	0.42
1:GT:80:ASN:ND2	1:GT:154:ASN:HB2	2.35	0.42
2:Ga:180:ASN:O	4:Ha:186:ASN:ND2	2.53	0.42
2:Gg:166:LEU:HD11	2:Gg:172:ILE:HD13	2.01	0.42
2:HG:30:GLY:O	2:HG:31:LEU:HD23	2.19	0.42
2:HG:116:ASN:HB3	2:HH:114:THR:HG21	2.01	0.42
2:HL:137:LEU:HB3	2:HL:145:LEU:HD22	2.00	0.42
2:HO:133:PRO:HG3	2:HO:161:SER:HA	2.01	0.42
4:HZ:142:ILE:HG13	4:HZ:152:VAL:HG22	2.02	0.42
4:Hd:179:VAL:HG13	4:Hd:181:VAL:HG23	2.02	0.42
4:Hf:142:ILE:HD11	4:Hf:152:VAL:HG23	2.01	0.42
4:Hs:142:ILE:HD11	4:Hs:152:VAL:HG23	2.02	0.42
4:Ht:161:ILE:HA	4:Ht:186:ASN:HA	2.01	0.42
5:Jb:189:LEU:HD11	5:Jb:206:ILE:HG12	2.01	0.42
1:Je:66:THR:HG22	2:Py:52:CYS:SG	2.59	0.42
1:Jl:108:ILE:HG22	4:MP:27:HIS:HE1	1.84	0.42
1:Jz:194:GLY:HA3	2:LR:36:ILE:HD12	2.01	0.42
1:KA:24:ILE:HG12	1:KA:131:ASN:ND2	2.34	0.42
1:KE:85:GLN:HB3	1:LC:60:ILE:HD11	2.00	0.42
1:KI:39:LEU:O	1:KI:274:SER:OG	2.23	0.42
1:KK:196:GLU:HB3	1:KK:265:ASN:ND2	2.34	0.42
1:KN:96:GLU:O	1:KN:100:THR:HG23	2.19	0.42
1:KV:57:PRO:HB2	1:PA:84:LEU:HB3	2.01	0.42
1:KV:239:LYS:NZ	1:KV:245:GLU:O	2.52	0.42
1:KX:196:GLU:HB3	1:KX:265:ASN:ND2	2.34	0.42
1:Kj:129:LEU:HD11	1:Kj:139:VAL:HG13	2.02	0.42
1:Ks:96:GLU:O	1:Ks:100:THR:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ks:196:GLU:HB3	1:Ks:265:ASN:HD22	1.85	0.42
1:Kz:175:ASP:HA	1:Kz:212:LYS:NZ	2.35	0.42
1:LG:80:ASN:C	1:LG:81:TYR:HD1	2.28	0.42
1:LG:317:LYS:HE2	1:LG:319:SER:HB2	2.01	0.42
2:LM:167:THR:HB	2:LM:170:LEU:HB3	2.01	0.42
2:Lk:23:LYS:HE3	2:Lk:23:LYS:HB2	1.87	0.42
2:Ll:63:PRO:HB2	2:Ll:85:GLU:HG2	2.02	0.42
2:Lx:69:TYR:HE1	2:Lx:100:ASP:HA	1.83	0.42
2:ME:181:ARG:HG2	2:ME:182:ALA:H	1.85	0.42
4:MQ:171:GLN:HE21	4:MQ:174:ASN:HA	1.84	0.42
4:Mi:161:ILE:HA	4:Mi:186:ASN:HA	2.01	0.42
4:Ml:142:ILE:HD11	4:Ml:152:VAL:HG23	2.02	0.42
4:Mm:144:ASN:HD21	4:Mm:148:ALA:HB3	1.83	0.42
1:OT:66:THR:HG22	2:Un:52:CYS:SG	2.59	0.42
1:Oc:275:LYS:HE3	1:Oc:276:TYR:CZ	2.55	0.42
1:Ol:163:GLU:HB2	2:QS:31:LEU:CD2	2.49	0.42
1:Oo:196:GLU:HB3	1:Oo:265:ASN:HD22	1.84	0.42
1:Os:47:VAL:HG22	1:Os:76:VAL:HG22	2.02	0.42
1:Os:65:ASN:ND2	2:QP:57:ASP:O	2.53	0.42
1:Os:181:PHE:CZ	1:Os:234:LEU:HB2	2.55	0.42
1:Ov:80:ASN:ND2	1:Ov:153:PRO:O	2.52	0.42
1:Oz:213:LEU:HD23	1:Oz:213:LEU:HA	1.89	0.42
1:PD:67:ILE:HG13	1:PH:296:TYR:HE2	1.84	0.42
1:PH:107:ASP:OD2	1:PH:110:ASN:ND2	2.36	0.42
1:PI:54:ASN:ND2	2:QZ:47:ASN:HD21	2.17	0.42
1:PQ:31:PRO:HA	5:Sa:218:TYR:CE2	2.55	0.42
1:PU:201:MET:HE3	1:PU:201:MET:HB3	1.96	0.42
1:Pc:286:ASP:HB2	1:Pc:294:HIS:HB2	2.01	0.42
1:Pe:54:ASN:HD22	1:Pe:69:THR:C	2.28	0.42
1:Pe:253:ASN:N	1:Pe:253:ASN:OD1	2.52	0.42
1:Pg:166:LYS:HE2	1:Pg:313:GLN:OE1	2.20	0.42
1:Pk:57:PRO:HB2	1:Pn:84:LEU:HB3	2.00	0.42
1:Pl:261:ILE:HD12	1:Pl:312:LEU:HD23	2.01	0.42
2:Pz:69:TYR:CZ	2:Pz:70:LYS:HE2	2.54	0.42
2:QL:120:TYR:CE1	2:QL:174:LEU:HB2	2.55	0.42
2:QY:140:ASN:ND2	2:QY:144:GLU:HB2	2.35	0.42
2:Qb:167:THR:HB	2:Qb:170:LEU:HB3	2.02	0.42
2:Qj:156:ASN:HB3	2:Qj:178:PHE:CZ	2.53	0.42
2:Qr:133:PRO:HG3	2:Qr:161:SER:HA	2.01	0.42
2:Qz:140:ASN:HD21	2:Qz:144:GLU:HB2	1.83	0.42
4:RM:93:VAL:HG21	4:RM:117:ILE:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RT:43:VAL:O	4:RT:43:VAL:HG13	2.19	0.42
1:TS:75:GLU:OE2	2:Uw:33:SER:OG	2.38	0.42
1:TX:41:MET:HE3	1:TX:82:LEU:HD12	2.02	0.42
1:Ti:307:THR:HG22	2:VB:32:LEU:HB2	2.01	0.42
1:Tk:80:ASN:ND2	1:Tk:153:PRO:O	2.52	0.42
1:Tx:54:ASN:ND2	2:VO:47:ASN:HD21	2.17	0.42
1:UG:152:LEU:HD21	2:VX:105:SER:HA	2.02	0.42
1:UJ:288:ASP:OD1	1:UJ:289:SER:N	2.47	0.42
1:UP:188:LEU:HD23	1:UP:188:LEU:HA	1.90	0.42
1:UY:239:LYS:HA	1:UY:242:ASN:OD1	2.19	0.42
1:Ug:66:THR:HG22	2:VG:52:CYS:HB3	2.02	0.42
2:Ur:138:ASN:HD22	2:Ur:153:LYS:HE2	1.84	0.42
2:Uz:166:LEU:HD11	2:Uz:172:ILE:HD13	2.01	0.42
2:VB:165:LYS:HE3	2:VB:168:GLU:HA	2.02	0.42
2:VC:133:PRO:HG3	2:VC:161:SER:HA	2.00	0.42
2:VS:133:PRO:HD3	2:VS:162:LYS:HG2	2.02	0.42
2:Vk:75:LEU:HD22	2:Vk:84:LEU:HD13	2.01	0.42
4:Vx:137:VAL:HG22	4:Vx:167:THR:HA	2.02	0.42
6:Xx:299:ILE:O	6:Xx:303:THR:HG22	2.19	0.42
6:Xx:374:ILE:HG13	6:YG:379:LEU:HD13	2.02	0.42
6:Xz:197:LEU:HD23	6:Xz:201:GLN:HG2	2.00	0.42
6:Xz:299:ILE:O	6:Xz:303:THR:HG22	2.19	0.42
6:YB:181:GLU:HG3	6:YF:168:LEU:HD11	2.01	0.42
6:YH:258:ARG:NH1	6:YI:249:ASN:HB3	2.35	0.42
5:YK:93:HIS:O	5:YK:94:LEU:HD23	2.20	0.42
5:YO:82:ARG:O	5:YO:86:ILE:HG13	2.19	0.42
5:YQ:88:THR:HA	5:YQ:91:LYS:HD2	2.00	0.42
5:YX:140:ILE:HA	5:YX:143:ILE:CG1	2.50	0.42
5:Yj:127:PRO:O	5:Yj:131:ILE:HG13	2.20	0.42
5:Yj:158:ASN:O	5:Yj:161:LEU:HG	2.19	0.42
5:Ym:55:ILE:HG21	5:Zu:116:ALA:CB	2.50	0.42
5:ZU:140:ILE:HG22	5:ZU:140:ILE:O	2.19	0.42
5:ZW:95:SER:HB3	5:ZW:98:PHE:CE1	2.54	0.42
5:ZY:57:GLU:HA	5:ZY:60:THR:HG22	2.02	0.42
5:Zf:76:LEU:HD23	5:Zf:79:GLU:OE2	2.19	0.42
5:Zq:103:LEU:HD12	5:Zq:113:ILE:HG23	1.99	0.42
5:Zz:112:ASP:OD1	5:Zz:115:GLN:NE2	2.49	0.42
5:aF:76:LEU:HD23	5:aF:79:GLU:OE2	2.20	0.42
5:aq:57:GLU:HA	5:aq:60:THR:HG22	2.01	0.42
5:aq:99:ASN:O	5:aq:103:LEU:HG	2.20	0.42
5:ax:112:ASP:OD1	5:ax:115:GLN:NE2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ay:111:LYS:HZ2	5:bB:74:LYS:HE3	1.84	0.42
5:bB:112:ASP:OD1	5:bB:115:GLN:NE2	2.49	0.42
5:bL:76:LEU:HD23	5:bL:79:GLU:OE2	2.19	0.42
5:bb:76:LEU:HD23	5:bb:79:GLU:OE2	2.19	0.42
5:bo:57:GLU:HA	5:bo:60:THR:HG22	2.01	0.42
5:bw:153:SER:HB2	5:bx:133:ALA:HB1	2.01	0.42
5:cA:153:SER:HB2	5:cB:133:ALA:HB1	2.00	0.42
5:cP:76:LEU:HD23	5:cP:79:GLU:OE2	2.19	0.42
5:cT:143:ILE:HD12	5:cT:143:ILE:HA	1.92	0.42
5:cY:153:SER:HB2	5:cZ:133:ALA:HB1	2.01	0.42
5:cn:76:LEU:HD23	5:cn:79:GLU:OE2	2.20	0.42
5:co:72:ILE:O	5:co:76:LEU:HG	2.19	0.42
5:co:86:ILE:HD11	5:co:118:ARG:HE	1.83	0.42
5:dE:99:ASN:HB3	5:dE:102:VAL:HG22	2.01	0.42
5:dk:59:ILE:O	5:dk:63:LEU:HD23	2.19	0.42
5:dl:76:LEU:HD23	5:dl:79:GLU:OE2	2.19	0.42
5:do:63:LEU:HD11	5:eX:136:LYS:HD2	2.02	0.42
5:eE:143:ILE:HG22	5:eE:143:ILE:O	2.19	0.42
5:eJ:76:LEU:HD23	5:eJ:79:GLU:OE2	2.20	0.42
5:eS:140:ILE:HG22	5:eS:140:ILE:O	2.20	0.42
5:ef:143:ILE:HD12	5:ef:143:ILE:HA	1.92	0.42
5:ej:143:ILE:HD12	5:ej:143:ILE:HA	1.92	0.42
5:ew:57:GLU:HA	5:ew:60:THR:HG22	2.01	0.42
5:fK:94:LEU:HD11	5:fK:121:LEU:HG	2.01	0.42
5:ff:112:ASP:OD1	5:ff:115:GLN:NE2	2.48	0.42
5:ft:143:ILE:HD12	5:ft:143:ILE:HA	1.92	0.42
5:fu:57:GLU:HA	5:fu:60:THR:HG22	2.02	0.42
1:AE:31:PRO:HG3	5:DO:218:TYR:CD1	2.54	0.42
1:AK:75:GLU:OE2	2:Bo:33:SER:OG	2.38	0.42
1:AO:194:GLY:HA3	4:Cp:36:ASN:HD22	1.84	0.42
1:AW:317:LYS:HE2	1:AW:319:SER:OG	2.20	0.42
1:Ah:65:ASN:ND2	2:CF:57:ASP:O	2.51	0.42
1:An:165:ILE:HD13	1:An:191:LEU:HD23	2.02	0.42
1:Ao:174:LYS:HG3	1:Ao:175:ASP:OD1	2.19	0.42
1:Ao:277:MET:HA	1:Ao:300:VAL:HB	2.02	0.42
1:Ap:253:ASN:N	1:Ap:253:ASN:OD1	2.52	0.42
1:Ar:213:LEU:HD23	1:Ar:213:LEU:HA	1.90	0.42
1:BA:87:LYS:O	1:BJ:69:THR:HA	2.19	0.42
1:BB:223:ALA:HB3	1:UZ:223:ALA:HA	2.01	0.42
1:BB:308:ARG:NE	2:Vk:32:LEU:O	2.52	0.42
1:BD:49:TRP:HH2	1:BK:111:ASN:HA	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:286:ASP:HB2	1:BJ:294:HIS:HB2	2.01	0.42
1:BK:67:ILE:HG13	1:BN:296:TYR:HE2	1.84	0.42
1:BN:260:LEU:HD23	1:BN:260:LEU:HA	1.86	0.42
1:BO:178:ASP:OD1	1:BO:178:ASP:N	2.52	0.42
1:BT:255:LEU:HD22	1:BT:258:LYS:HB2	2.01	0.42
1:Be:16:ILE:HD11	1:Be:120:LYS:HE3	2.00	0.42
2:Bm:28:ASP:OD1	2:Bm:28:ASP:N	2.51	0.42
2:Br:153:LYS:HA	2:Br:181:ARG:HH21	1.85	0.42
2:Bs:182:ALA:HB2	4:Cp:186:ASN:HB3	2.01	0.42
2:Bt:165:LYS:HE3	2:Bt:168:GLU:HA	2.02	0.42
2:CC:113:ILE:HD12	2:CC:113:ILE:HA	1.92	0.42
2:CK:113:ILE:HD12	2:CK:113:ILE:HA	1.93	0.42
2:CK:133:PRO:HD3	2:CK:162:LYS:HG2	2.02	0.42
2:CL:180:ASN:O	2:CM:180:ASN:ND2	2.53	0.42
2:CR:116:ASN:HB3	2:CS:114:THR:HG21	2.01	0.42
4:Co:179:VAL:HG13	4:Co:181:VAL:HG23	2.02	0.42
4:Cp:137:VAL:HG22	4:Cp:167:THR:HA	2.02	0.42
4:Cq:43:VAL:O	4:Cq:43:VAL:HG13	2.19	0.42
4:Cu:64:PHE:CZ	4:Cu:108:ILE:HD11	2.54	0.42
4:DH:23:LYS:N	4:DH:67:TYR:OH	2.51	0.42
1:Ep:132:HIS:HA	1:Ep:254:LEU:HD13	2.01	0.42
1:Eu:178:ASP:OD1	1:Eu:179:LYS:N	2.53	0.42
1:Ev:8:TYR:CG	1:Ev:93:GLN:HG3	2.54	0.42
1:Ew:157:GLY:N	1:Ew:160:ASN:OD1	2.46	0.42
1:FH:163:GLU:HB2	2:Go:31:LEU:CD2	2.49	0.42
1:FO:47:VAL:HG22	1:FO:76:VAL:HG22	2.01	0.42
1:FO:65:ASN:ND2	2:Gl:57:ASP:O	2.53	0.42
1:FV:66:THR:HA	3:HY:100:SER:HB2	2.02	0.42
1:Ff:195:ASP:HB2	4:Hj:36:ASN:HB3	2.02	0.42
1:Fg:66:THR:HG22	2:Lh:52:CYS:SG	2.60	0.42
1:Fr:178:ASP:N	1:Fr:178:ASP:OD1	2.52	0.42
1:GA:80:ASN:HB2	1:GA:155:MET:HG3	2.02	0.42
1:GC:49:TRP:CZ3	1:GC:74:SER:HB3	2.54	0.42
1:GD:158:LEU:HB3	1:GD:260:LEU:HD21	2.02	0.42
1:GP:16:ILE:HD12	1:GP:116:ALA:HB1	2.01	0.42
1:GQ:201:MET:HE3	1:GQ:201:MET:HB3	1.88	0.42
1:GS:259:ILE:HB	1:GS:314:VAL:HB	2.02	0.42
2:HM:75:LEU:HD23	2:HM:75:LEU:HA	1.90	0.42
4:Hc:142:ILE:HG13	4:Hc:152:VAL:HG22	2.02	0.42
4:Hp:20:LYS:HZ1	4:Hp:175:GLU:HB2	1.84	0.42
5:IJ:189:LEU:HD11	5:IJ:206:ILE:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jj:40:GLN:HG2	1:Jj:83:LYS:HD2	2.01	0.42
1:Jo:13:VAL:HG11	1:Jo:281:PRO:HG2	2.01	0.42
1:Jo:201:MET:HE3	1:Jo:201:MET:HB3	1.96	0.42
1:Jt:36:ASP:CG	5:ND:214:ARG:HH22	2.28	0.42
1:Jy:85:GLN:HB3	1:KE:60:ILE:HD11	2.01	0.42
1:KA:317:LYS:HE2	1:KA:319:SER:OG	2.20	0.42
1:KD:110:ASN:ND2	1:LC:62:ASN:OD1	2.53	0.42
1:KG:13:VAL:HG11	1:KG:281:PRO:HG2	2.01	0.42
1:KK:66:THR:HA	3:MN:100:SER:HB2	2.01	0.42
1:KM:107:ASP:HB3	1:KM:112:LEU:HB2	2.01	0.42
1:KM:253:ASN:N	1:KM:253:ASN:OD1	2.53	0.42
1:KM:278:LEU:HD23	1:KM:278:LEU:HA	1.83	0.42
1:KS:27:LYS:HB2	1:KS:27:LYS:HE2	1.85	0.42
1:KS:196:GLU:HB3	1:KS:265:ASN:HD22	1.84	0.42
1:KY:159:LEU:HD12	1:KY:260:LEU:HD13	2.02	0.42
1:Kd:54:ASN:HD22	1:Kd:69:THR:C	2.28	0.42
1:Kf:113:LEU:HD11	1:Kp:49:TRP:CE3	2.55	0.42
1:Kl:201:MET:HE3	1:Kl:201:MET:HB3	1.93	0.42
1:Kp:80:ASN:HB2	1:Kp:155:MET:HG3	2.02	0.42
1:Kr:162:PRO:O	4:Mf:31:LEU:HD11	2.20	0.42
1:Ks:158:LEU:HB3	1:Ks:260:LEU:HD21	2.02	0.42
1:Ku:16:ILE:HD12	1:Ku:116:ALA:HB1	2.01	0.42
1:Kv:60:ILE:HG23	1:Kx:290:THR:HG22	2.01	0.42
1:Ky:257:HIS:ND1	1:Ky:318:GLN:HG3	2.35	0.42
1:LF:181:PHE:CZ	1:LF:234:LEU:HB2	2.54	0.42
1:LG:49:TRP:CZ3	1:LG:74:SER:HB3	2.54	0.42
1:LG:174:LYS:HG3	1:LG:175:ASP:OD1	2.20	0.42
1:LH:159:LEU:HD12	1:LH:260:LEU:HD13	2.01	0.42
2:LR:140:ASN:HD21	2:LR:144:GLU:HB2	1.83	0.42
2:LV:166:LEU:HD11	2:LV:172:ILE:HD13	2.01	0.42
2:Lc:114:THR:O	2:Ld:114:THR:HB	2.20	0.42
2:Le:140:ASN:OD1	2:Le:144:GLU:N	2.43	0.42
2:Lf:130:GLY:O	2:Lf:147:LYS:NZ	2.51	0.42
2:Lg:64:ALA:HB2	2:Lg:108:ALA:HB2	2.01	0.42
2:Lh:124:LYS:HD3	2:Lh:146:GLU:HB3	2.01	0.42
2:Ly:140:ASN:HD21	2:Ly:144:GLU:HB2	1.83	0.42
2:MC:64:ALA:HB2	2:MC:108:ALA:HB2	2.02	0.42
3:MN:184:ASN:HB3	3:MN:190:ILE:HD13	2.02	0.42
4:MO:142:ILE:HG13	4:MO:152:VAL:HG22	2.02	0.42
4:MS:179:VAL:HG13	4:MS:181:VAL:HG23	2.02	0.42
4:Mk:37:GLU:O	4:Mk:41:LYS:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Mn:43:VAL:O	4:Mn:43:VAL:HG13	2.19	0.42
1:OY:13:VAL:HG11	1:OY:281:PRO:HG2	2.01	0.42
1:Oc:132:HIS:HA	1:Oc:254:LEU:HD13	2.02	0.42
1:Oi:36:ASP:CG	5:Rs:214:ARG:HH22	2.28	0.42
1:Op:317:LYS:HE2	1:Op:319:SER:OG	2.20	0.42
1:Os:49:TRP:CE3	1:Os:74:SER:HB3	2.55	0.42
1:PH:277:MET:HA	1:PH:300:VAL:HB	2.02	0.42
1:PL:286:ASP:HB2	1:PL:294:HIS:HB2	2.02	0.42
1:PM:150:ARG:HE	2:Qe:63:PRO:HB3	1.85	0.42
1:PS:54:ASN:HD22	1:PS:69:THR:C	2.28	0.42
1:PT:87:LYS:O	1:Pc:69:THR:HA	2.20	0.42
1:PY:59:THR:O	2:Qx:61:ASN:ND2	2.52	0.42
1:Pb:286:ASP:HB2	1:Pb:294:HIS:HB2	2.01	0.42
1:Ph:96:GLU:O	1:Ph:100:THR:HG23	2.20	0.42
1:Pj:201:MET:HE3	1:Pj:201:MET:HB3	1.93	0.42
1:Pm:8:TYR:CD2	1:Pm:93:GLN:HG3	2.54	0.42
1:Pu:201:MET:HE3	1:Pu:201:MET:HB3	1.88	0.42
1:Pv:181:PHE:CZ	1:Pv:234:LEU:HB2	2.54	0.42
2:QJ:167:THR:HB	2:QJ:170:LEU:HB3	2.01	0.42
2:QW:76:SER:HB3	2:QW:87:GLU:HG2	2.01	0.42
2:Qe:180:ASN:O	2:Qf:180:ASN:ND2	2.53	0.42
2:Qm:23:LYS:N	2:Qm:67:TYR:OH	2.52	0.42
2:Qn:137:LEU:HB3	2:Qn:145:LEU:HD22	2.02	0.42
2:Qt:181:ARG:HG2	2:Qt:182:ALA:H	1.85	0.42
2:Qz:23:LYS:N	2:Qz:67:TYR:OH	2.52	0.42
2:Qz:137:LEU:HB3	2:Qz:145:LEU:HD22	2.02	0.42
4:RK:43:VAL:O	4:RK:43:VAL:HG13	2.19	0.42
4:RO:149:LEU:HD13	4:RO:181:VAL:HG21	2.01	0.42
4:RS:142:ILE:HG13	4:RS:152:VAL:HG22	2.01	0.42
4:RZ:37:GLU:O	4:RZ:41:LYS:HD2	2.19	0.42
4:Ra:142:ILE:HD11	4:Ra:152:VAL:HG23	2.02	0.42
1:TS:165:ILE:HD12	1:TS:191:LEU:HD23	2.01	0.42
1:TX:275:LYS:HE3	1:TX:276:TYR:CZ	2.55	0.42
1:Td:282:ASN:OD1	1:Td:283:GLU:N	2.53	0.42
1:Tk:163:GLU:HB2	2:VJ:31:LEU:HD13	2.00	0.42
1:Tr:275:LYS:HE3	1:Tr:276:TYR:CZ	2.55	0.42
1:Ty:49:TRP:CZ3	1:Ty:74:SER:HB3	2.55	0.42
1:Ty:195:ASP:HB2	4:WC:36:ASN:HB3	2.02	0.42
1:Tz:205:VAL:HG12	1:Tz:259:ILE:HG23	2.01	0.42
1:UD:143:LYS:HE2	4:WH:37:GLU:HG2	2.02	0.42
1:UI:283:GLU:HB2	5:XS:199:PHE:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UJ:91:LEU:HD21	1:UJ:112:LEU:HD13	2.01	0.42
1:UT:54:ASN:HD22	1:UT:69:THR:C	2.28	0.42
1:Ud:77:VAL:HG11	1:Ud:305:LEU:HD13	2.02	0.42
1:Uj:26:TYR:O	5:Xt:218:TYR:OH	2.32	0.42
1:Uk:181:PHE:CZ	1:Uk:234:LEU:HB2	2.55	0.42
1:Um:81:TYR:OH	1:Um:272:LYS:O	2.29	0.42
2:Un:156:ASN:HB2	2:Un:178:PHE:O	2.19	0.42
2:Ur:167:THR:HG22	2:Ur:168:GLU:N	2.35	0.42
2:VX:56:LYS:HD2	2:VY:56:LYS:HA	2.01	0.42
2:Va:181:ARG:HG2	2:Va:182:ALA:H	1.85	0.42
2:Vo:64:ALA:HB2	2:Vo:108:ALA:HB2	2.00	0.42
2:Vo:137:LEU:HD11	2:Vo:159:ALA:HB2	2.00	0.42
4:Vx:73:VAL:HG21	4:Vx:117:ILE:HD13	2.02	0.42
4:WC:141:LEU:HD11	4:WC:165:ALA:HB2	2.01	0.42
4:WQ:113:LYS:HE3	4:WQ:113:LYS:HB2	1.91	0.42
5:Wp:211:LYS:O	5:Wp:215:ILE:HG13	2.19	0.42
6:YF:299:ILE:O	6:YF:303:THR:HG22	2.19	0.42
5:YU:80:ALA:HA	5:YU:83:ILE:HG12	2.01	0.42
5:YV:99:ASN:O	5:YV:103:LEU:HG	2.19	0.42
5:YW:131:ILE:O	5:YW:135:ALA:HB3	2.20	0.42
5:YW:143:ILE:HD12	5:YW:143:ILE:HA	1.95	0.42
5:Yd:76:LEU:HD23	5:Yd:79:GLU:OE2	2.20	0.42
5:Ye:122:VAL:O	5:Ye:126:VAL:HB	2.20	0.42
5:Yg:99:ASN:O	5:Yg:103:LEU:HG	2.19	0.42
5:Yx:83:ILE:HG12	5:Yx:114:MET:HE2	2.02	0.42
5:Yy:143:ILE:HG22	5:Yy:143:ILE:O	2.18	0.42
5:ZC:79:GLU:O	5:ZC:83:ILE:HG12	2.19	0.42
5:ZQ:57:GLU:HA	5:ZQ:60:THR:HG22	2.01	0.42
5:Zc:118:ARG:O	5:Zc:122:VAL:HG23	2.20	0.42
5:Zg:57:GLU:HA	5:Zg:60:THR:HG22	2.01	0.42
5:Zv:136:LYS:HE3	5:Zv:136:LYS:HB2	1.90	0.42
5:Zy:72:ILE:O	5:Zy:76:LEU:HG	2.19	0.42
5:aA:94:LEU:HD11	5:aA:121:LEU:HG	2.00	0.42
5:aT:76:LEU:HD23	5:aT:79:GLU:OE2	2.20	0.42
5:aY:57:GLU:HA	5:aY:60:THR:HG22	2.01	0.42
5:as:94:LEU:HD11	5:as:121:LEU:HG	2.01	0.42
5:bB:76:LEU:HD23	5:bB:79:GLU:OE2	2.19	0.42
5:bC:94:LEU:HD11	5:bC:121:LEU:HG	2.01	0.42
5:bP:76:LEU:HD23	5:bP:79:GLU:OE2	2.19	0.42
5:bd:143:ILE:HD12	5:bd:143:ILE:HA	1.92	0.42
5:bk:55:ILE:HD13	5:cQ:116:ALA:HB1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bw:99:ASN:O	5:bw:103:LEU:HG	2.20	0.42
5:cE:153:SER:HB2	5:cF:133:ALA:HB1	2.01	0.42
5:cG:57:GLU:HA	5:cG:60:THR:HG22	2.01	0.42
5:cM:86:ILE:HD11	5:cM:118:ARG:HE	1.85	0.42
5:cM:94:LEU:HD11	5:cM:121:LEU:HG	2.01	0.42
5:cQ:57:GLU:HA	5:cQ:60:THR:HG22	2.01	0.42
5:cR:122:VAL:HG11	5:cR:151:LEU:HD13	2.00	0.42
5:cW:99:ASN:O	5:cW:103:LEU:HG	2.20	0.42
5:cc:99:ASN:O	5:cc:103:LEU:HG	2.20	0.42
5:cj:143:ILE:HD12	5:cj:143:ILE:HA	1.92	0.42
5:cv:112:ASP:OD1	5:cv:115:GLN:NE2	2.48	0.42
5:cy:57:GLU:HA	5:cy:60:THR:HG22	2.01	0.42
5:dI:72:ILE:O	5:dI:76:LEU:HG	2.18	0.42
5:dO:99:ASN:HB3	5:dO:102:VAL:HG22	2.02	0.42
5:dc:57:GLU:HA	5:dc:60:THR:HG22	2.01	0.42
5:dg:94:LEU:HD11	5:dg:121:LEU:HG	2.00	0.42
5:dn:76:LEU:HD23	5:dn:79:GLU:OE2	2.19	0.42
5:do:59:ILE:O	5:do:63:LEU:HD23	2.19	0.42
5:du:111:LYS:HZ1	5:dx:74:LYS:HE3	1.84	0.42
5:eG:111:LYS:HZ2	5:eJ:74:LYS:HE3	1.85	0.42
5:eJ:112:ASP:OD1	5:eJ:115:GLN:NE2	2.49	0.42
5:eP:76:LEU:HD23	5:eP:79:GLU:OE2	2.19	0.42
5:eU:148:LEU:O	5:eU:152:VAL:HG13	2.20	0.42
5:ei:99:ASN:HB3	5:ei:102:VAL:HG22	2.01	0.42
5:fP:112:ASP:OD1	5:fP:115:GLN:NE2	2.48	0.42
5:fW:57:GLU:HA	5:fW:60:THR:HG22	2.02	0.42
5:fZ:143:ILE:HD12	5:fZ:143:ILE:HA	1.92	0.42
5:fo:57:GLU:HA	5:fo:60:THR:HG22	2.01	0.42
1:AL:78:ARG:HB3	1:AL:154:ASN:HD22	1.85	0.42
1:AS:240:ALA:HB2	1:AZ:214:VAL:HG11	2.01	0.42
1:AZ:63:GLU:HG2	2:Bw:59:ILE:HD11	2.01	0.42
1:Aj:275:LYS:HE3	1:Aj:276:TYR:CZ	2.55	0.42
1:Ak:196:GLU:OE1	1:Ak:265:ASN:ND2	2.46	0.42
1:Ar:275:LYS:HE3	1:Ar:275:LYS:HB2	1.87	0.42
1:Au:57:PRO:HB2	1:Fm:84:LEU:HD13	2.00	0.42
1:Av:8:TYR:CD2	1:Av:93:GLN:HG3	2.55	0.42
1:Az:78:ARG:O	1:Az:154:ASN:ND2	2.41	0.42
1:BE:49:TRP:CH2	1:BE:74:SER:HB3	2.55	0.42
1:BY:66:THR:HG22	2:By:52:CYS:HB3	2.02	0.42
1:Bb:57:PRO:HA	1:GN:86:TYR:HE1	1.85	0.42
1:Bc:132:HIS:HA	1:Bc:254:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bd:49:TRP:CH2	1:Bd:74:SER:HB3	2.54	0.42
2:Bf:36:ILE:HG23	1:TI:194:GLY:HA3	2.01	0.42
2:Bg:68:PRO:HD2	2:Bg:101:ILE:HD11	2.02	0.42
2:Bh:57:ASP:O	1:Eq:65:ASN:ND2	2.52	0.42
2:Bh:120:TYR:CE1	2:Bh:174:LEU:HB2	2.53	0.42
2:Bl:180:ASN:O	4:Cl:186:ASN:ND2	2.53	0.42
2:Bu:116:ASN:OD1	2:Bv:58:LYS:HE2	2.19	0.42
2:CD:52:CYS:SG	1:Tz:66:THR:HG22	2.60	0.42
2:CD:124:LYS:HD3	2:CD:146:GLU:HB3	2.01	0.42
2:CF:140:ASN:ND2	2:CF:144:GLU:HB2	2.35	0.42
2:CI:167:THR:HB	2:CI:170:LEU:HB3	2.02	0.42
2:CT:75:LEU:HD22	2:CT:84:LEU:HD13	2.02	0.42
2:CU:137:LEU:HB3	2:CU:145:LEU:HD22	2.02	0.42
2:CZ:136:LYS:HD3	2:CZ:155:VAL:HG11	2.01	0.42
2:Ca:181:ARG:HG2	2:Ca:182:ALA:H	1.85	0.42
2:Cc:133:PRO:HG3	2:Cc:161:SER:HA	2.02	0.42
4:Cn:142:ILE:HG13	4:Cn:152:VAL:HG22	2.02	0.42
4:DD:142:ILE:HD11	4:DD:152:VAL:HG23	2.02	0.42
4:DI:51:THR:HG21	4:DI:180:LYS:HE3	2.01	0.42
1:Et:31:PRO:HG3	5:ID:218:TYR:CD1	2.54	0.42
1:Ey:20:VAL:O	5:II:213:ARG:NH2	2.30	0.42
1:FC:52:PHE:CZ	1:FC:71:GLY:HA3	2.54	0.42
1:FK:13:VAL:HA	1:FK:16:ILE:HG22	2.01	0.42
1:FX:100:THR:HG22	1:FX:105:ILE:HG12	2.01	0.42
1:FZ:133:PHE:O	1:FZ:137:GLY:N	2.46	0.42
1:Ff:158:LEU:HB3	1:Ff:260:LEU:HD21	2.00	0.42
1:Fg:31:PRO:HG3	5:Iq:218:TYR:CG	2.54	0.42
1:Fk:152:LEU:HD21	2:HC:105:SER:HA	2.01	0.42
1:Fp:282:ASN:HB3	1:Fp:296:TYR:HB2	2.01	0.42
1:Fs:49:TRP:CH2	1:Fs:74:SER:HB3	2.55	0.42
1:Fu:65:ASN:HB2	2:HT:59:ILE:H	1.84	0.42
1:GA:96:GLU:O	1:GA:100:THR:HG23	2.19	0.42
1:GB:201:MET:HE3	1:GB:201:MET:HB3	1.89	0.42
1:GM:259:ILE:HB	1:GM:314:VAL:HB	2.02	0.42
1:GP:175:ASP:HA	1:GP:212:LYS:NZ	2.33	0.42
1:GQ:49:TRP:CE3	1:LC:113:LEU:HD11	2.54	0.42
1:GQ:181:PHE:CZ	1:GQ:234:LEU:HB2	2.54	0.42
1:GT:196:GLU:HB3	1:GT:265:ASN:HD22	1.84	0.42
2:Gc:140:ASN:ND2	2:Gc:144:GLU:HB2	2.34	0.42
2:Ge:160:LEU:HD11	4:Hc:75:ARG:HH12	1.84	0.42
2:Gg:133:PRO:HG3	2:Gg:161:SER:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gv:23:LYS:HE3	2:Gv:23:LYS:HB2	1.87	0.42
2:HG:114:THR:O	2:HH:114:THR:HB	2.20	0.42
2:HI:75:LEU:HD22	2:HI:84:LEU:HD13	2.02	0.42
4:Hw:133:SER:HB3	4:Hw:177:TYR:CE1	2.55	0.42
1:Jj:239:LYS:NZ	1:Jj:245:GLU:O	2.50	0.42
1:Jk:96:GLU:O	1:Jk:100:THR:HG23	2.19	0.42
1:Jo:165:ILE:HD12	1:Jo:191:LEU:HD23	2.01	0.42
1:Jp:96:GLU:O	1:Jp:100:THR:HG23	2.20	0.42
1:Jv:31:PRO:HG3	5:NF:218:TYR:CG	2.54	0.42
1:KH:20:VAL:O	5:NR:213:ARG:NH2	2.34	0.42
1:KQ:268:LEU:HD21	4:Ma:36:ASN:HD21	1.85	0.42
1:Km:260:LEU:HD23	1:Km:260:LEU:HA	1.90	0.42
1:Ko:49:TRP:CH2	1:Ko:74:SER:HB3	2.54	0.42
1:Kp:175:ASP:HA	1:Kp:212:LYS:NZ	2.34	0.42
1:Ks:178:ASP:N	1:Ks:178:ASP:OD1	2.52	0.42
1:Kv:84:LEU:HB3	1:PU:57:PRO:HB2	2.02	0.42
1:Kx:77:VAL:HA	2:MK:29:SER:O	2.19	0.42
1:LF:20:VAL:HG23	5:OP:213:ARG:HH22	1.85	0.42
1:LI:80:ASN:ND2	1:LI:154:ASN:HB2	2.35	0.42
2:LW:120:TYR:CE1	2:LW:174:LEU:HB2	2.55	0.42
2:Lj:140:ASN:ND2	2:Lj:144:GLU:HB2	2.35	0.42
2:Lm:167:THR:HB	2:Lm:170:LEU:HB3	2.02	0.42
2:Ls:153:LYS:HG3	2:Ls:154:SER:H	1.85	0.42
2:Lw:181:ARG:HG2	2:Lw:182:ALA:H	1.85	0.42
2:Ly:137:LEU:HB3	2:Ly:145:LEU:HD22	2.02	0.42
2:MG:156:ASN:HB3	2:MG:178:PHE:CZ	2.54	0.42
4:MR:142:ILE:HG13	4:MR:152:VAL:HG22	2.02	0.42
5:Nq:211:LYS:HG3	5:Nq:214:ARG:NH2	2.34	0.42
1:Ok:85:GLN:NE2	1:Ok:298:ASP:OD1	2.48	0.42
1:Oo:282:ASN:OD1	1:Oo:283:GLU:N	2.53	0.42
1:PH:41:MET:HE3	1:PH:83:LYS:HB3	2.00	0.42
1:PK:205:VAL:HG12	1:PK:259:ILE:HG23	2.00	0.42
1:PN:159:LEU:HD12	1:PN:260:LEU:HD13	2.02	0.42
1:PR:152:LEU:HD21	2:Qi:105:SER:HA	2.01	0.42
1:PU:87:LYS:NZ	2:Qm:53:THR:O	2.32	0.42
1:PZ:178:ASP:OD1	1:PZ:178:ASP:N	2.53	0.42
1:Pc:87:LYS:NZ	4:RX:53:THR:O	2.48	0.42
1:Pd:49:TRP:CH2	1:Pd:74:SER:HB3	2.54	0.42
1:Pg:157:GLY:N	1:Pg:160:ASN:OD1	2.50	0.42
1:Pq:259:ILE:HB	1:Pq:314:VAL:HB	2.02	0.42
1:Pv:174:LYS:HG3	1:Pv:175:ASP:OD1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pv:178:ASP:OD1	1:Pv:178:ASP:N	2.52	0.42
1:Pw:178:ASP:OD1	1:Pw:178:ASP:N	2.51	0.42
2:QR:75:LEU:HD22	2:QR:84:LEU:HD13	2.01	0.42
2:QR:77:PHE:CD2	4:RL:138:LYS:HE2	2.51	0.42
2:QU:140:ASN:OD1	2:QU:144:GLU:N	2.48	0.42
2:Qi:137:LEU:HD11	2:Qi:159:ALA:HB2	2.00	0.42
2:Qr:64:ALA:HB2	2:Qr:108:ALA:HB2	2.02	0.42
4:RS:144:ASN:OD1	4:RS:148:ALA:N	2.41	0.42
1:TK:201:MET:HE3	1:TK:201:MET:HB3	1.92	0.42
1:TN:40:GLN:HG2	1:TN:83:LYS:HD2	2.01	0.42
1:TS:296:TYR:HE2	1:Td:67:ILE:HG13	1.85	0.42
1:TU:87:LYS:NZ	4:Vv:53:THR:O	2.46	0.42
1:TZ:31:PRO:HG3	5:Wj:218:TYR:CG	2.54	0.42
1:Th:47:VAL:HG22	1:Th:76:VAL:HG22	2.02	0.42
1:Tm:49:TRP:CE3	1:Tm:74:SER:HB3	2.55	0.42
1:UA:26:TYR:O	5:XK:218:TYR:OH	2.33	0.42
1:UC:159:LEU:HD12	1:UC:260:LEU:HD13	2.02	0.42
1:UD:158:LEU:HB3	1:UD:260:LEU:HD21	2.01	0.42
1:UI:87:LYS:O	1:UR:69:THR:HA	2.20	0.42
1:UK:161:MET:SD	4:WL:31:LEU:HD21	2.59	0.42
1:UL:49:TRP:CH2	1:UL:74:SER:HB3	2.55	0.42
1:UL:86:TYR:HE1	1:UO:57:PRO:HA	1.83	0.42
1:UL:286:ASP:HB2	1:UL:294:HIS:HB2	2.01	0.42
1:UM:49:TRP:CH2	1:UM:74:SER:HB3	2.55	0.42
1:UY:13:VAL:HG13	1:UY:119:TYR:CE2	2.55	0.42
1:Uc:257:HIS:ND1	1:Uc:318:GLN:HG3	2.35	0.42
1:Uj:20:VAL:HG23	5:Xt:213:ARG:HH22	1.85	0.42
1:Uk:80:ASN:C	1:Uk:81:TYR:HD1	2.28	0.42
1:Ul:259:ILE:HB	1:Ul:314:VAL:HB	2.02	0.42
2:Ut:180:ASN:O	4:Vt:186:ASN:ND2	2.53	0.42
2:VM:181:ARG:HH22	2:VN:94:LEU:HB3	1.85	0.42
2:VT:165:LYS:HB2	2:VT:171:PHE:CE2	2.54	0.42
2:Vc:137:LEU:HB3	2:Vc:145:LEU:HD22	2.02	0.42
2:Vi:181:ARG:HG2	2:Vi:182:ALA:H	1.85	0.42
2:Vl:77:PHE:CD2	4:WP:138:LYS:HE2	2.52	0.42
6:Xy:290:GLU:O	6:Xy:294:LEU:HG	2.20	0.42
6:YA:299:ILE:O	6:YA:303:THR:HG22	2.19	0.42
6:YG:290:GLU:O	6:YG:294:LEU:HG	2.20	0.42
5:YR:55:ILE:O	5:YR:59:ILE:HG13	2.20	0.42
5:YR:131:ILE:HD13	5:YR:140:ILE:HD11	2.01	0.42
5:YX:57:GLU:HA	5:YX:60:THR:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YX:72:ILE:O	5:YX:76:LEU:HG	2.20	0.42
5:Yh:76:LEU:HD21	5:Yi:76:LEU:HD22	2.01	0.42
5:Yr:128:ILE:HD12	5:Yr:131:ILE:HD12	2.01	0.42
5:Yx:130:GLN:HG2	5:Yx:154:LEU:HD21	2.02	0.42
5:ZB:128:ILE:HA	5:ZB:131:ILE:HD12	2.01	0.42
5:ZK:55:ILE:O	5:ZK:59:ILE:HG12	2.20	0.42
5:ZR:74:LYS:HE3	5:Zu:111:LYS:HZ2	1.85	0.42
5:aL:143:ILE:HD12	5:aL:143:ILE:HA	1.92	0.42
5:aS:57:GLU:HA	5:aS:60:THR:HG22	2.01	0.42
5:aU:111:LYS:HZ2	5:aX:74:LYS:HE3	1.85	0.42
5:aq:94:LEU:HD11	5:aq:121:LEU:HG	2.01	0.42
5:aw:94:LEU:HD11	5:aw:121:LEU:HG	2.02	0.42
5:bJ:76:LEU:HD23	5:bJ:79:GLU:OE2	2.20	0.42
5:bW:57:GLU:HA	5:bW:60:THR:HG22	2.01	0.42
5:bc:57:GLU:HA	5:bc:60:THR:HG22	2.01	0.42
5:bc:99:ASN:O	5:bc:103:LEU:HG	2.19	0.42
5:bk:153:SER:HB2	5:bl:133:ALA:HB1	2.01	0.42
5:br:76:LEU:HD23	5:br:79:GLU:OE2	2.19	0.42
5:bs:57:GLU:HA	5:bs:60:THR:HG22	2.02	0.42
5:cR:143:ILE:HD12	5:cR:143:ILE:HA	1.92	0.42
5:cS:57:GLU:HA	5:cS:60:THR:HG22	2.01	0.42
5:ca:55:ILE:HD13	5:dG:116:ALA:HB1	2.01	0.42
5:ce:86:ILE:HD11	5:ce:118:ARG:HE	1.83	0.42
5:cp:76:LEU:HD23	5:cp:79:GLU:OE2	2.19	0.42
5:dL:122:VAL:HG11	5:dL:151:LEU:HD13	2.00	0.42
5:dP:76:LEU:HD23	5:dP:79:GLU:OE2	2.19	0.42
5:dR:143:ILE:HD12	5:dR:143:ILE:HA	1.92	0.42
5:dm:94:LEU:HD11	5:dm:121:LEU:HG	2.01	0.42
5:dp:76:LEU:HD23	5:dp:79:GLU:OE2	2.20	0.42
5:eC:99:ASN:HB3	5:eC:102:VAL:HG22	2.02	0.42
5:eI:94:LEU:HD11	5:eI:121:LEU:HG	2.01	0.42
5:eM:94:LEU:HD11	5:eM:121:LEU:HG	2.01	0.42
5:eN:112:ASP:OD1	5:eN:115:GLN:NE2	2.50	0.42
5:eY:113:ILE:O	5:eY:117:GLN:HG2	2.19	0.42
5:eg:99:ASN:HB3	5:eg:102:VAL:HG22	2.01	0.42
5:fO:99:ASN:HB3	5:fO:102:VAL:HG22	2.02	0.42
5:fU:99:ASN:HB3	5:fU:102:VAL:HG22	2.02	0.42
5:fo:94:LEU:HD11	5:fo:121:LEU:HG	2.01	0.42
5:fq:94:LEU:HD11	5:fq:121:LEU:HG	2.01	0.42
1:AF:31:PRO:HG3	5:DP:218:TYR:CG	2.55	0.42
1:AF:40:GLN:HG2	1:AF:83:LYS:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:96:GLU:O	1:AL:100:THR:HG23	2.20	0.42
1:AL:174:LYS:O	1:AL:212:LYS:NZ	2.53	0.42
1:AZ:146:LYS:HB3	4:Cs:88:HIS:HD2	1.85	0.42
1:Ae:49:TRP:CE3	1:Ae:74:SER:HB3	2.55	0.42
1:Ae:191:LEU:HD23	1:Ae:191:LEU:HA	1.92	0.42
1:Aq:195:ASP:HB2	4:Cu:36:ASN:HB3	2.02	0.42
1:Ax:79:LEU:HD23	1:Ax:79:LEU:HA	1.92	0.42
1:BC:178:ASP:OD1	1:BC:178:ASP:N	2.52	0.42
1:BD:49:TRP:CH2	1:BD:74:SER:HB3	2.55	0.42
1:BR:57:PRO:HG2	1:BU:84:LEU:HD13	2.00	0.42
1:BV:20:VAL:HG23	5:Ef:213:ARG:HH22	1.83	0.42
1:Bc:49:TRP:CE3	1:Be:113:LEU:HD11	2.55	0.42
1:Bc:174:LYS:HG3	1:Bc:175:ASP:OD1	2.20	0.42
1:Bc:178:ASP:OD1	1:Bc:178:ASP:N	2.52	0.42
1:Bd:158:LEU:HB3	1:Bd:260:LEU:HD21	2.02	0.42
2:Bj:63:PRO:HB2	2:Bj:85:GLU:HG2	2.01	0.42
2:By:75:LEU:HD22	2:By:84:LEU:HD13	2.02	0.42
2:CA:136:LYS:HD3	2:CA:181:ARG:HH12	1.85	0.42
2:CH:63:PRO:HB2	2:CH:85:GLU:HG2	2.02	0.42
2:CT:23:LYS:N	2:CT:67:TYR:OH	2.52	0.42
2:CU:133:PRO:HG3	2:CU:161:SER:HA	2.02	0.42
2:CX:165:LYS:HE3	2:CX:168:GLU:HA	2.01	0.42
2:CZ:133:PRO:HG3	2:CZ:161:SER:HA	2.02	0.42
4:Cv:149:LEU:HD13	4:Cv:181:VAL:HG21	2.01	0.42
4:DH:133:SER:HB3	4:DH:177:TYR:CE1	2.55	0.42
1:FA:152:LEU:HD21	2:Gc:105:SER:HA	2.01	0.42
1:FG:196:GLU:HB3	1:FG:265:ASN:ND2	2.35	0.42
1:FK:49:TRP:CH2	1:FK:74:SER:HB3	2.54	0.42
1:FK:296:TYR:HE2	1:FN:67:ILE:HG13	1.85	0.42
1:FO:49:TRP:CE3	1:FO:74:SER:HB3	2.55	0.42
1:FT:96:GLU:O	1:FT:100:THR:HG23	2.20	0.42
1:Fa:178:ASP:OD1	1:Fa:178:ASP:N	2.53	0.42
1:Fb:112:LEU:HD12	1:Fb:112:LEU:HA	1.83	0.42
1:Fi:113:LEU:HD11	1:Ka:49:TRP:CE3	2.54	0.42
1:Fo:80:ASN:ND2	1:Fo:154:ASN:HB2	2.34	0.42
1:Fp:113:LEU:HD11	1:Fy:49:TRP:CZ3	2.55	0.42
1:Fp:283:GLU:HB2	5:Iz:199:PHE:CD2	2.55	0.42
1:Fr:255:LEU:HD23	1:Fr:255:LEU:HA	1.91	0.42
1:Fu:257:HIS:ND1	1:Fu:318:GLN:HG3	2.35	0.42
1:GB:28:TRP:O	1:GB:262:TYR:OH	2.30	0.42
1:GC:166:LYS:HE2	1:GC:313:GLN:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GC:255:LEU:HD23	1:GC:255:LEU:HA	1.90	0.42
1:GG:84:LEU:HB3	1:Kf:57:PRO:HB2	2.02	0.42
1:GI:255:LEU:HD22	1:GI:258:LYS:HB2	2.01	0.42
1:GN:66:THR:HG22	2:Gn:52:CYS:HB3	2.02	0.42
2:Gs:124:LYS:HD3	2:Gs:146:GLU:HB3	2.01	0.42
2:HE:77:PHE:HB2	4:Hp:138:LYS:HE2	2.01	0.42
2:HM:77:PHE:HD2	4:Ht:138:LYS:HG3	1.84	0.42
4:Hq:23:LYS:N	4:Hq:67:TYR:OH	2.52	0.42
4:Hw:107:ASP:OD1	4:Hw:108:ILE:N	2.52	0.42
4:Hw:142:ILE:HD11	4:Hw:152:VAL:HG23	2.02	0.42
4:Hy:142:ILE:HD11	4:Hy:152:VAL:HG23	2.02	0.42
1:Je:41:MET:HE3	1:Je:83:LYS:HB3	2.01	0.42
1:Je:194:GLY:HA3	2:Py:36:ILE:HG23	2.01	0.42
1:Ji:31:PRO:HG3	5:Ms:218:TYR:CD1	2.54	0.42
1:Jj:13:VAL:HG11	1:Jj:281:PRO:HG2	2.01	0.42
1:Jk:8:TYR:CG	1:Jk:93:GLN:HG3	2.54	0.42
1:Jl:28:TRP:CZ3	1:Jl:135:LEU:HB2	2.54	0.42
1:Jv:196:GLU:HB3	1:Jv:265:ASN:ND2	2.35	0.42
1:Jz:282:ASN:OD1	1:Jz:283:GLU:N	2.53	0.42
1:KI:49:TRP:CE3	1:KI:74:SER:HB3	2.55	0.42
1:KJ:164:GLN:OE1	1:KJ:310:THR:N	2.43	0.42
1:KV:31:PRO:HG3	5:Nf:218:TYR:CG	2.54	0.42
1:Kc:96:GLU:O	1:Kc:100:THR:HG23	2.20	0.42
1:Ke:113:LEU:HD11	1:Kn:49:TRP:CZ3	2.55	0.42
1:Kf:288:ASP:OD1	1:Kf:289:SER:N	2.47	0.42
1:Kh:306:ALA:O	2:MD:31:LEU:HD22	2.20	0.42
1:Kj:212:LYS:HA	1:Kj:215:LYS:HE3	2.02	0.42
1:Kn:113:LEU:HD11	1:Pf:49:TRP:CE3	2.55	0.42
1:Ko:67:ILE:HG13	1:Kr:296:TYR:HE2	1.84	0.42
1:Kq:140:SER:HB2	1:Kq:148:GLN:HG2	2.02	0.42
1:Ks:80:ASN:ND2	1:Ks:154:ASN:HB2	2.35	0.42
1:LC:107:ASP:OD2	1:LC:110:ASN:ND2	2.38	0.42
1:LE:211:LEU:HD23	1:LE:211:LEU:HA	1.89	0.42
1:LG:132:HIS:HA	1:LG:254:LEU:HD13	2.01	0.42
2:LP:180:ASN:O	4:MP:186:ASN:ND2	2.53	0.42
2:LT:160:LEU:HD11	4:MR:75:ARG:HH12	1.84	0.42
2:LV:133:PRO:HG3	2:LV:161:SER:HA	2.02	0.42
2:LZ:165:LYS:HE3	2:LZ:168:GLU:HA	2.02	0.42
2:LZ:167:THR:HG22	2:LZ:168:GLU:N	2.35	0.42
2:Lo:133:PRO:HD3	2:Lo:162:LYS:HG2	2.02	0.42
2:Lv:100:ASP:HB3	2:Lv:109:THR:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:MC:75:LEU:HD22	2:MC:84:LEU:HD13	2.02	0.42
2:MC:133:PRO:HG3	2:MC:161:SER:HA	2.01	0.42
4:Me:25:PRO:HB2	4:Me:27:HIS:CD2	2.55	0.42
1:OX:31:PRO:HG3	5:Rh:218:TYR:CD1	2.54	0.42
1:OY:216:PRO:HB2	1:OY:224:ALA:HB1	2.01	0.42
1:Od:218:ALA:HA	1:Od:224:ALA:HA	2.02	0.42
1:On:31:PRO:HG3	5:Rx:218:TYR:CD1	2.55	0.42
1:Oo:84:LEU:HD13	1:Or:57:PRO:HB2	2.02	0.42
1:Or:79:LEU:HD23	1:Or:79:LEU:HA	1.92	0.42
1:Ox:96:GLU:O	1:Ox:100:THR:HG23	2.20	0.42
1:PB:100:THR:HG22	1:PB:105:ILE:HG12	2.01	0.42
1:PB:253:ASN:OD1	1:PB:253:ASN:N	2.53	0.42
1:PH:24:ILE:HG12	1:PH:131:ASN:ND2	2.35	0.42
1:PI:112:LEU:HD21	1:PI:292:VAL:HG22	2.00	0.42
1:PK:66:THR:HG22	2:VL:52:CYS:SG	2.60	0.42
1:PO:8:TYR:CD2	1:PO:93:GLN:HG3	2.55	0.42
1:PO:152:LEU:HD21	2:Qg:105:SER:HA	2.01	0.42
1:PU:113:LEU:HD11	1:Pe:49:TRP:CE3	2.55	0.42
1:PV:178:ASP:N	1:PV:178:ASP:OD1	2.52	0.42
1:PW:49:TRP:CH2	1:PW:74:SER:HB3	2.55	0.42
1:PW:70:ILE:HD11	1:Pd:86:TYR:HD2	1.84	0.42
1:PW:306:ALA:O	2:Qs:31:LEU:HD22	2.20	0.42
1:Pa:82:LEU:HD12	1:Pa:82:LEU:HA	1.93	0.42
1:Pg:178:ASP:N	1:Pg:178:ASP:OD1	2.52	0.42
1:Pi:257:HIS:ND1	1:Pi:318:GLN:HG3	2.34	0.42
1:Ps:163:GLU:HB2	2:QQ:31:LEU:HD13	2.01	0.42
1:Pt:253:ASN:N	1:Pt:253:ASN:OD1	2.52	0.42
1:Pv:132:HIS:HA	1:Pv:254:LEU:HD13	2.01	0.42
2:QC:138:ASN:HD22	2:QC:153:LYS:HE2	1.84	0.42
2:Qa:63:PRO:HB2	2:Qa:85:GLU:HG2	2.02	0.42
2:Qm:75:LEU:HD23	2:Qm:75:LEU:HA	1.88	0.42
2:Qs:133:PRO:HG3	2:Qs:161:SER:HA	2.01	0.42
2:Qs:136:LYS:HD3	2:Qs:155:VAL:HG11	2.01	0.42
2:Qs:182:ALA:HB3	2:Qt:183:ILE:HD12	2.02	0.42
2:RA:23:LYS:N	2:RA:67:TYR:OH	2.48	0.42
4:RD:142:ILE:HG13	4:RD:152:VAL:HG22	2.02	0.42
4:RH:179:VAL:HG13	4:RH:181:VAL:HG23	2.02	0.42
4:RL:23:LYS:N	4:RL:67:TYR:OH	2.53	0.42
1:TR:132:HIS:HA	1:TR:254:LEU:HD13	2.02	0.42
1:TR:275:LYS:HE3	1:TR:276:TYR:CZ	2.55	0.42
1:TV:152:LEU:HD21	4:Vv:112:SER:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Td:13:VAL:HA	1:Td:16:ILE:HG22	2.01	0.42
1:Te:317:LYS:HE2	1:Te:319:SER:OG	2.20	0.42
1:Th:181:PHE:CD1	1:Th:184:ILE:HD12	2.55	0.42
1:Tu:253:ASN:ND2	1:Tx:195:ASP:OD1	2.44	0.42
1:Tw:196:GLU:HB3	1:Tw:265:ASN:HD22	1.84	0.42
1:UA:175:ASP:HA	1:UA:212:LYS:NZ	2.35	0.42
1:UG:201:MET:HE3	1:UG:201:MET:HB3	1.98	0.42
1:UJ:3:LEU:HD22	5:XT:198:ASN:C	2.45	0.42
1:UJ:317:LYS:NZ	1:UJ:319:SER:OXT	2.50	0.42
1:UL:306:ALA:O	2:Vh:31:LEU:HD22	2.20	0.42
1:UP:307:THR:O	1:UP:310:THR:OG1	2.36	0.42
1:UR:13:VAL:HA	1:UR:16:ILE:HG22	2.02	0.42
1:US:158:LEU:HB3	1:US:260:LEU:HD21	2.02	0.42
1:UT:175:ASP:HA	1:UT:212:LYS:NZ	2.35	0.42
1:UW:201:MET:HE3	1:UW:201:MET:HB3	1.96	0.42
1:UZ:178:ASP:N	1:UZ:178:ASP:OD1	2.51	0.42
1:Ui:16:ILE:HD12	1:Ui:116:ALA:HB1	2.01	0.42
1:Ul:201:MET:HE3	1:Ul:201:MET:HB3	1.95	0.42
2:Uo:68:PRO:HD2	2:Uo:101:ILE:HD11	2.02	0.42
2:Uo:69:TYR:CZ	2:Uo:70:LYS:HE2	2.54	0.42
2:VW:153:LYS:HG3	2:VW:154:SER:H	1.85	0.42
3:Vr:184:ASN:HB3	3:Vr:190:ILE:HD13	2.02	0.42
4:WL:142:ILE:HD11	4:WL:152:VAL:HG23	2.02	0.42
6:Xx:197:LEU:HD23	6:Xx:201:GLN:HG2	2.02	0.42
6:Xz:172:LEU:HD21	6:YA:181:GLU:HA	2.01	0.42
6:Xz:198:VAL:N	6:YA:270:TYR:OH	2.53	0.42
6:YC:299:ILE:O	6:YC:303:THR:HG22	2.20	0.42
6:YC:348:LEU:HD23	6:YC:348:LEU:HA	1.86	0.42
6:YE:172:LEU:HD21	6:YF:181:GLU:HA	2.01	0.42
6:YH:181:GLU:HA	6:YI:172:LEU:HD21	2.01	0.42
5:YR:63:LEU:HD21	5:Yj:135:ALA:C	2.45	0.42
5:Yd:125:PHE:O	5:Yd:127:PRO:HD3	2.20	0.42
5:Ye:82:ARG:HH21	5:Ye:118:ARG:HH22	1.67	0.42
5:Yk:57:GLU:HA	5:Yk:60:THR:HG22	2.02	0.42
5:Yo:130:GLN:NE2	5:Yp:157:VAL:HG11	2.35	0.42
5:Yr:135:ALA:HB1	5:Yr:143:ILE:HG12	2.01	0.42
5:Ys:56:ASN:HB3	5:Zo:123:ARG:NH1	2.35	0.42
5:Yv:122:VAL:HG11	5:Yv:151:LEU:HD13	2.01	0.42
5:ZG:55:ILE:HD11	5:Za:98:PHE:HD2	1.84	0.42
5:ZM:59:ILE:O	5:ZM:63:LEU:HD23	2.19	0.42
5:ZT:76:LEU:HD23	5:ZT:79:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZU:57:GLU:HA	5:ZU:60:THR:HG22	2.01	0.42
5:ZY:95:SER:HB3	5:ZY:98:PHE:CE1	2.53	0.42
5:Zb:76:LEU:HD23	5:Zb:79:GLU:OE2	2.19	0.42
5:Zd:76:LEU:HD23	5:Zd:79:GLU:OE2	2.19	0.42
5:aO:94:LEU:HD11	5:aO:121:LEU:HG	2.01	0.42
5:am:94:LEU:HD11	5:am:121:LEU:HG	2.01	0.42
5:as:55:ILE:HG21	5:bY:116:ALA:HB2	2.01	0.42
5:bA:99:ASN:HB3	5:bA:102:VAL:HG22	2.02	0.42
5:bW:94:LEU:HD11	5:bW:121:LEU:HG	2.02	0.42
5:bo:153:SER:HB2	5:bp:133:ALA:HB1	2.02	0.42
5:cC:111:LYS:HZ2	5:cF:74:LYS:HE3	1.84	0.42
5:cE:62:GLU:OE1	5:ck:97:HIS:NE2	2.53	0.42
5:cH:136:LYS:HE3	5:cH:136:LYS:HB2	1.90	0.42
5:cI:153:SER:HB2	5:cJ:133:ALA:HB1	2.01	0.42
5:cK:94:LEU:HD11	5:cK:121:LEU:HG	2.01	0.42
5:cg:57:GLU:HA	5:cg:60:THR:HG22	2.02	0.42
5:ck:153:SER:HB2	5:cl:133:ALA:HB1	2.01	0.42
5:cl:76:LEU:HD23	5:cl:79:GLU:OE2	2.20	0.42
5:cm:153:SER:HB2	5:cn:133:ALA:HB1	2.01	0.42
5:cy:153:SER:HB2	5:cz:133:ALA:HB1	2.01	0.42
5:dG:99:ASN:HB3	5:dG:102:VAL:HG22	2.02	0.42
5:dL:76:LEU:HD23	5:dL:79:GLU:OE2	2.19	0.42
5:da:94:LEU:HD11	5:da:121:LEU:HG	2.02	0.42
5:dc:153:SER:HB2	5:dd:133:ALA:HB1	2.02	0.42
5:dh:146:GLU:CD	5:eO:58:ARG:HH21	2.28	0.42
5:dj:76:LEU:HD23	5:dj:79:GLU:OE2	2.19	0.42
5:do:94:LEU:HD11	5:do:121:LEU:HG	2.01	0.42
5:dx:112:ASP:OD1	5:dx:115:GLN:NE2	2.49	0.42
5:eA:94:LEU:HD11	5:eA:121:LEU:HG	2.02	0.42
5:eW:99:ASN:HB3	5:eW:102:VAL:HG22	2.02	0.42
5:eu:99:ASN:HB3	5:eu:102:VAL:HG22	2.02	0.42
5:ev:122:VAL:HG11	5:ev:151:LEU:HD13	2.00	0.42
5:fJ:136:LYS:HE3	5:fJ:136:LYS:HB2	1.90	0.42
5:fM:94:LEU:HD11	5:fM:121:LEU:HG	2.01	0.42
5:fY:94:LEU:HD11	5:fY:121:LEU:HG	2.02	0.42
5:fq:57:GLU:HA	5:fq:60:THR:HG22	2.01	0.42
5:fy:57:GLU:HA	5:fy:60:THR:HG22	2.02	0.42
5:gA:94:LEU:HD11	5:gA:121:LEU:HG	2.01	0.42
1:AC:201:MET:HE3	1:AC:201:MET:HB3	1.92	0.42
1:AI:192:GLU:HB3	2:Gg:36:ILE:HD11	2.01	0.42
1:AM:201:MET:HE3	1:AM:201:MET:HB3	1.96	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:8:TYR:CD2	1:AQ:93:GLN:HG3	2.55	0.42
1:AT:174:LYS:O	1:AT:212:LYS:NZ	2.53	0.42
1:AV:84:LEU:HD13	1:AY:57:PRO:HB2	2.01	0.42
1:AZ:181:PHE:CZ	1:AZ:234:LEU:HB2	2.55	0.42
1:Aq:49:TRP:CZ3	1:Aq:74:SER:HB3	2.55	0.42
1:Ax:55:ALA:HA	1:BO:141:ILE:HD13	2.01	0.42
1:Ay:296:TYR:HE2	1:Az:67:ILE:HG13	1.85	0.42
1:Az:80:ASN:ND2	1:Az:154:ASN:HB2	2.34	0.42
1:BB:3:LEU:HD22	5:EL:198:ASN:C	2.45	0.42
1:BF:212:LYS:HA	1:BF:215:LYS:HE3	2.02	0.42
1:BI:96:GLU:O	1:BI:100:THR:HG23	2.19	0.42
1:BR:57:PRO:HB2	1:BU:84:LEU:HB3	2.00	0.42
1:BV:77:VAL:HG11	1:BV:305:LEU:HD13	2.02	0.42
1:Bc:49:TRP:CZ3	1:Bc:74:SER:HB3	2.54	0.42
1:Bc:267:GLU:H	1:Bc:267:GLU:HG2	1.69	0.42
2:Bt:120:TYR:CE1	2:Bt:174:LEU:HB2	2.54	0.42
2:Cg:137:LEU:HB3	2:Cg:145:LEU:HD22	2.02	0.42
2:Ci:133:PRO:HG3	2:Ci:161:SER:HA	2.02	0.42
3:Cj:184:ASN:HB3	3:Cj:190:ILE:HD13	2.02	0.42
4:Ck:142:ILE:HG13	4:Ck:152:VAL:HG22	2.02	0.42
4:Cq:10:GLU:O	4:Cq:14:LYS:HG2	2.18	0.42
4:DA:20:LYS:HZ1	4:DA:175:GLU:HB2	1.84	0.42
1:Er:205:VAL:HG12	1:Er:259:ILE:HG23	2.02	0.42
1:Ew:28:TRP:CZ3	1:Ew:135:LEU:HB2	2.54	0.42
1:Ez:13:VAL:HG11	1:Ez:281:PRO:HG2	2.01	0.42
1:FA:67:ILE:HG13	1:FL:296:TYR:HE2	1.85	0.42
1:FA:96:GLU:O	1:FA:100:THR:HG23	2.20	0.42
1:FJ:16:ILE:HD11	1:FJ:120:LYS:HE3	2.02	0.42
1:FL:317:LYS:HE2	1:FL:319:SER:OG	2.20	0.42
1:FP:255:LEU:HD23	1:FP:255:LEU:HA	1.92	0.42
1:FT:181:PHE:CZ	1:FT:234:LEU:HB2	2.55	0.42
1:FX:135:LEU:HD21	1:FX:255:LEU:HG	2.01	0.42
1:Fb:31:PRO:HG3	5:Il:218:TYR:CD1	2.55	0.42
1:Fe:54:ASN:ND2	2:Gv:47:ASN:HD21	2.17	0.42
1:Fo:54:ASN:HD22	1:Fo:69:THR:C	2.28	0.42
1:Ft:259:ILE:HB	1:Ft:314:VAL:HB	2.00	0.42
1:GC:165:ILE:HD13	1:GC:191:LEU:HD23	2.02	0.42
1:GI:26:TYR:O	5:JS:218:TYR:OH	2.35	0.42
1:GI:196:GLU:HB3	1:GI:265:ASN:HD22	1.85	0.42
1:GK:21:LYS:NZ	1:GL:195:ASP:OD2	2.49	0.42
1:GQ:161:MET:HG3	4:Mm:31:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GR:49:TRP:CE3	1:GT:113:LEU:HD11	2.55	0.42
1:GR:267:GLU:H	1:GR:267:GLU:HG2	1.69	0.42
2:GW:57:ASP:O	1:Jf:65:ASN:ND2	2.52	0.42
2:GY:167:THR:HG22	2:GY:168:GLU:N	2.35	0.42
2:Gd:120:TYR:CE1	2:Gd:174:LEU:HB2	2.55	0.42
2:Gk:167:THR:HG22	2:Gk:168:GLU:N	2.35	0.42
2:HE:30:GLY:O	2:HE:31:LEU:HD23	2.19	0.42
2:HG:120:TYR:CE1	2:HG:174:LEU:HB2	2.54	0.42
2:HJ:137:LEU:HB3	2:HJ:145:LEU:HD22	2.02	0.42
2:HN:64:ALA:HB2	2:HN:108:ALA:HB2	2.01	0.42
4:He:137:VAL:HG22	4:He:167:THR:HA	2.02	0.42
4:Hv:113:LYS:HE3	4:Hv:113:LYS:HB2	1.93	0.42
5:IW:211:LYS:O	5:IW:215:ILE:HG13	2.19	0.42
5:Ir:191:ASP:OD1	5:Zp:96:ASN:OD1	2.37	0.42
1:Jh:132:HIS:HA	1:Jh:254:LEU:HD13	2.01	0.42
1:Jz:296:TYR:HE2	1:KC:67:ILE:HG13	1.85	0.42
1:KC:85:GLN:HB3	1:KD:60:ILE:HD11	2.01	0.42
1:KE:16:ILE:HD11	1:KE:120:LYS:HE3	2.02	0.42
1:KK:239:LYS:NZ	1:KK:245:GLU:O	2.42	0.42
1:KZ:288:ASP:OD1	1:KZ:289:SER:N	2.44	0.42
1:Kd:80:ASN:ND2	1:Kd:154:ASN:HB2	2.34	0.42
1:Kf:33:GLN:HG2	1:Kf:266:SER:HA	2.01	0.42
1:Kf:166:LYS:HE2	1:Kf:166:LYS:HB3	1.90	0.42
1:Kg:57:PRO:HB2	1:Kj:84:LEU:HB3	2.01	0.42
1:Km:96:GLU:O	1:Km:100:THR:HG23	2.19	0.42
1:Ko:96:GLU:O	1:Ko:100:THR:HG23	2.20	0.42
1:Kp:49:TRP:CH2	1:Kp:74:SER:HB3	2.55	0.42
1:Kp:54:ASN:HD22	1:Kp:69:THR:C	2.28	0.42
1:Ks:272:LYS:N	1:Ks:303:GLY:O	2.40	0.42
1:LE:80:ASN:ND2	1:LE:154:ASN:HB2	2.34	0.42
1:LG:49:TRP:CE3	1:LI:113:LEU:HD11	2.55	0.42
2:MH:148:VAL:HG21	2:MH:155:VAL:HG12	2.01	0.42
2:MH:182:ALA:HB2	4:Ml:188:ALA:HB1	2.02	0.42
2:MK:133:PRO:HG3	2:MK:161:SER:HA	2.02	0.42
4:Mb:127:TYR:CE1	4:Mb:180:LYS:HB2	2.55	0.42
4:Me:120:ILE:HD12	4:Me:120:ILE:HA	1.95	0.42
4:Mn:142:ILE:HD11	4:Mn:152:VAL:HG23	2.02	0.42
1:OY:31:PRO:HG3	5:Ri:218:TYR:CG	2.55	0.42
1:Oa:28:TRP:CZ3	1:Oa:135:LEU:HB2	2.54	0.42
1:Od:75:GLU:OE2	2:QH:33:SER:OG	2.38	0.42
1:Oe:96:GLU:O	1:Oe:100:THR:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Oe:174:LYS:O	1:Oe:212:LYS:NZ	2.53	0.42
1:Oo:133:PHE:O	1:Oo:137:GLY:N	2.43	0.42
1:Or:196:GLU:OE1	1:Or:265:ASN:ND2	2.53	0.42
1:Os:110:ASN:ND2	1:Pr:62:ASN:OD1	2.53	0.42
1:Ov:13:VAL:HG11	1:Ov:281:PRO:HG2	2.01	0.42
1:PC:101:SER:OG	1:PC:102:ASP:N	2.53	0.42
1:PC:275:LYS:HE3	1:PC:276:TYR:CZ	2.55	0.42
1:PH:174:LYS:HG3	1:PH:175:ASP:OD1	2.20	0.42
1:PJ:49:TRP:CZ3	1:PJ:74:SER:HB3	2.55	0.42
1:PK:57:PRO:HB2	1:Tp:84:LEU:HB3	2.01	0.42
1:PR:96:GLU:O	1:PR:100:THR:HG23	2.20	0.42
1:PS:80:ASN:ND2	1:PS:154:ASN:HB2	2.34	0.42
1:Pb:178:ASP:N	1:Pb:178:ASP:OD1	2.53	0.42
1:Ph:13:VAL:HA	1:Ph:16:ILE:HG22	2.02	0.42
1:Pk:223:ALA:HA	1:UJ:223:ALA:HB3	2.01	0.42
1:Pl:211:LEU:HD23	1:Pl:211:LEU:HA	1.91	0.42
2:QC:63:PRO:HB2	2:QC:85:GLU:HG2	2.01	0.42
2:QM:153:LYS:HA	2:QM:181:ARG:HH21	1.85	0.42
2:QM:165:LYS:HE3	2:QM:168:GLU:HA	2.02	0.42
2:QT:136:LYS:HD3	2:QT:181:ARG:HH12	1.85	0.42
2:QT:140:ASN:OD1	2:QT:144:GLU:N	2.43	0.42
2:Qk:116:ASN:HB3	2:Ql:114:THR:HG21	2.02	0.42
4:RF:171:GLN:HE21	4:RF:174:ASN:HA	1.84	0.42
4:Rb:51:THR:HG21	4:Rb:180:LYS:HE3	2.01	0.42
1:TI:132:HIS:HA	1:TI:254:LEU:HD13	2.01	0.42
1:TO:133:PHE:O	1:TO:137:GLY:N	2.45	0.42
1:TR:96:GLU:O	1:TR:100:THR:HG23	2.20	0.42
1:TS:84:LEU:HD13	1:Td:57:PRO:HB2	2.02	0.42
1:TU:112:LEU:HD12	1:TU:112:LEU:HA	1.90	0.42
1:TV:52:PHE:CZ	1:TV:71:GLY:HA3	2.54	0.42
1:TY:49:TRP:CE3	1:TY:74:SER:HB3	2.54	0.42
1:Te:26:TYR:O	5:Wo:218:TYR:OH	2.28	0.42
1:Tf:133:PHE:O	1:Tf:137:GLY:N	2.44	0.42
1:Tk:178:ASP:OD1	1:Tk:179:LYS:N	2.52	0.42
1:Tm:96:GLU:O	1:Tm:100:THR:HG23	2.20	0.42
1:Tq:135:LEU:HD21	1:Tq:255:LEU:HG	2.01	0.42
1:Tt:161:MET:HA	1:Tt:162:PRO:HD3	1.92	0.42
1:Tw:277:MET:HA	1:Tw:300:VAL:HB	2.02	0.42
1:Tx:79:LEU:HD11	1:Tx:305:LEU:HB2	2.01	0.42
1:Tz:31:PRO:HG3	5:XJ:218:TYR:CG	2.54	0.42
1:UB:150:ARG:HE	2:VT:63:PRO:HB3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:UD:8:TYR:CD2	1:UD:93:GLN:HG3	2.55	0.42
1:UG:290:THR:HG22	1:US:60:ILE:HG23	2.01	0.42
1:UN:257:HIS:ND1	1:UN:318:GLN:HG3	2.35	0.42
1:US:67:ILE:HG13	1:UV:296:TYR:HE2	1.84	0.42
1:UT:253:ASN:OD1	1:UT:253:ASN:N	2.52	0.42
1:UY:16:ILE:HD12	1:UY:116:ALA:HB1	2.01	0.42
1:Ub:77:VAL:HA	2:Vo:29:SER:O	2.19	0.42
1:Ub:96:GLU:O	1:Ub:100:THR:HG23	2.19	0.42
1:Ud:175:ASP:HA	1:Ud:212:LYS:NZ	2.35	0.42
1:Uf:174:LYS:O	1:Uf:212:LYS:NZ	2.53	0.42
1:Uk:166:LYS:HE2	1:Uk:313:GLN:OE1	2.19	0.42
2:VA:120:TYR:CE1	2:VA:174:LEU:HB2	2.55	0.42
2:VB:120:TYR:CE1	2:VB:174:LEU:HB2	2.54	0.42
2:VD:58:LYS:H	2:VD:115:ASN:ND2	2.18	0.42
2:VF:58:LYS:H	2:VF:115:ASN:ND2	2.18	0.42
2:VL:76:SER:HB3	2:VL:87:GLU:HG2	2.01	0.42
2:VP:63:PRO:HB2	2:VP:85:GLU:HG2	2.02	0.42
2:VQ:23:LYS:HB2	2:VQ:23:LYS:HE3	1.80	0.42
2:VY:156:ASN:HB3	2:VY:178:PHE:CZ	2.53	0.42
2:Vo:133:PRO:HG3	2:Vo:161:SER:HA	2.02	0.42
4:WE:142:ILE:HG13	4:WE:152:VAL:HG22	2.01	0.42
4:WF:127:TYR:CE1	4:WF:180:LYS:HB2	2.55	0.42
4:WQ:51:THR:HG21	4:WQ:180:LYS:HE3	2.01	0.42
6:Xy:211:LEU:O	6:Xy:215:THR:HG23	2.20	0.42
6:Xy:379:LEU:HD13	6:Xz:374:ILE:HG13	2.02	0.42
6:YD:73:TYR:CE2	6:YD:150:ASN:HB2	2.54	0.42
6:YE:305:GLU:OE1	6:YE:308:THR:N	2.43	0.42
6:YG:195:GLU:HA	6:YG:199:GLN:OE1	2.20	0.42
5:YJ:75:GLN:O	5:YJ:79:GLU:HG2	2.20	0.42
5:YJ:99:ASN:O	5:YJ:103:LEU:HG	2.20	0.42
5:YL:82:ARG:O	5:YL:86:ILE:HG13	2.20	0.42
5:YM:125:PHE:CE1	5:YM:159:ILE:HD13	2.55	0.42
5:YQ:53:LEU:O	5:YQ:57:GLU:HG2	2.20	0.42
5:YZ:55:ILE:HG21	5:ZO:103:LEU:HD13	2.01	0.42
5:YZ:131:ILE:HD13	5:YZ:140:ILE:HD11	2.02	0.42
5:Ya:55:ILE:CD1	5:ZI:103:LEU:HD21	2.47	0.42
5:Ya:99:ASN:O	5:Ya:103:LEU:HG	2.19	0.42
5:Yi:150:GLN:OE1	5:Yj:134:ILE:HG23	2.20	0.42
5:Yj:75:GLN:O	5:Yj:79:GLU:HG2	2.20	0.42
5:Yr:83:ILE:HG12	5:Yr:114:MET:HG3	2.02	0.42
5:Yu:79:GLU:O	5:Yu:83:ILE:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZS:103:LEU:HD12	5:ZS:113:ILE:HG23	2.01	0.42
5:ZZ:136:LYS:HE3	5:ZZ:136:LYS:HB2	1.90	0.42
5:aE:57:GLU:HA	5:aE:60:THR:HG22	2.02	0.42
5:aG:94:LEU:HD11	5:aG:121:LEU:HG	2.02	0.42
5:aK:94:LEU:HD11	5:aK:121:LEU:HG	2.01	0.42
5:aQ:55:ILE:HD13	5:aw:116:ALA:HB1	2.00	0.42
5:aZ:76:LEU:HD23	5:aZ:79:GLU:OE2	2.20	0.42
5:an:76:LEU:HD23	5:an:79:GLU:OE2	2.20	0.42
5:ap:76:LEU:HD23	5:ap:79:GLU:OE2	2.20	0.42
5:aw:55:ILE:HG21	5:bc:116:ALA:HB2	2.02	0.42
5:bA:57:GLU:HA	5:bA:60:THR:HG22	2.02	0.42
5:bI:153:SER:HB2	5:bJ:133:ALA:HB1	2.01	0.42
5:bM:94:LEU:HD11	5:bM:121:LEU:HG	2.01	0.42
5:bN:76:LEU:HD23	5:bN:79:GLU:OE2	2.20	0.42
5:bP:112:ASP:OD1	5:bP:115:GLN:NE2	2.49	0.42
5:bP:136:LYS:HE3	5:bP:136:LYS:HB2	1.90	0.42
5:bU:111:LYS:HZ2	5:bX:74:LYS:HE3	1.83	0.42
5:bW:98:PHE:HB3	5:bW:117:GLN:HE22	1.85	0.42
5:cA:57:GLU:HA	5:cA:60:THR:HG22	2.01	0.42
5:cC:153:SER:HB2	5:cD:133:ALA:HB1	2.01	0.42
5:cK:153:SER:HB2	5:cL:133:ALA:HB1	2.01	0.42
5:cM:55:ILE:HG21	5:cs:116:ALA:HB2	2.01	0.42
5:cM:57:GLU:HA	5:cM:60:THR:HG22	2.01	0.42
5:cN:143:ILE:HD12	5:cN:143:ILE:HA	1.92	0.42
5:cZ:112:ASP:OD1	5:cZ:115:GLN:NE2	2.48	0.42
5:ce:57:GLU:HA	5:ce:60:THR:HG22	2.02	0.42
5:dC:57:GLU:HA	5:dC:60:THR:HG22	2.01	0.42
5:dC:99:ASN:HB3	5:dC:102:VAL:HG22	2.02	0.42
5:dD:112:ASP:OD1	5:dD:115:GLN:NE2	2.49	0.42
5:dH:76:LEU:HD23	5:dH:79:GLU:OE2	2.19	0.42
5:dX:143:ILE:HD12	5:dX:143:ILE:HA	1.92	0.42
5:da:153:SER:HB2	5:db:133:ALA:HB1	2.01	0.42
5:de:94:LEU:HD11	5:de:121:LEU:HG	2.01	0.42
5:ep:136:LYS:HB2	5:ep:136:LYS:HE3	1.72	0.42
5:fK:99:ASN:HB3	5:fK:102:VAL:HG22	2.02	0.42
5:fk:57:GLU:HA	5:fk:60:THR:HG22	2.01	0.42
5:fl:76:LEU:HD23	5:fl:79:GLU:OE2	2.19	0.42
5:fp:143:ILE:HD12	5:fp:143:ILE:HA	1.91	0.42
5:fs:57:GLU:HA	5:fs:60:THR:HG22	2.01	0.42
5:gA:57:GLU:HA	5:gA:60:THR:HG22	2.02	0.42
1:AD:201:MET:HE3	1:AD:201:MET:HB3	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:275:LYS:HE3	1:AJ:276:TYR:CZ	2.55	0.41
1:AK:296:TYR:HE2	1:AV:67:ILE:HG13	1.85	0.41
1:AO:87:LYS:NZ	2:Bo:53:THR:O	2.41	0.41
1:Aa:16:ILE:HD11	1:Aa:120:LYS:HE3	2.02	0.41
1:Ac:80:ASN:ND2	1:Ac:153:PRO:O	2.52	0.41
1:Ac:196:GLU:HB3	1:Ac:265:ASN:ND2	2.35	0.41
1:Ak:86:TYR:OH	1:Av:55:ALA:O	2.31	0.41
1:Ak:226:SER:OG	1:Av:226:SER:O	2.29	0.41
1:Ao:211:LEU:HD23	1:Ao:211:LEU:HA	1.88	0.41
1:Ap:54:ASN:ND2	2:CG:47:ASN:HD21	2.17	0.41
1:Au:69:THR:HA	1:Fm:87:LYS:O	2.20	0.41
1:Av:197:PHE:CD2	1:Av:243:ASN:HB2	2.55	0.41
1:BA:84:LEU:HD22	1:BA:149:LYS:HE3	2.02	0.41
1:BB:288:ASP:OD1	1:BB:289:SER:N	2.46	0.41
1:BD:70:ILE:HD11	1:BK:86:TYR:HD2	1.84	0.41
1:BD:129:LEU:HD12	4:DC:38:PHE:HE2	1.85	0.41
1:BI:286:ASP:HB2	1:BI:294:HIS:HB2	2.01	0.41
1:BK:79:LEU:HD23	1:BK:79:LEU:HA	1.92	0.41
1:BM:140:SER:HB2	1:BM:148:GLN:HG2	2.02	0.41
1:BO:13:VAL:HA	1:BO:16:ILE:HG22	2.02	0.41
1:BQ:201:MET:HE3	1:BQ:201:MET:HB3	1.93	0.41
1:BS:261:ILE:HD12	1:BS:312:LEU:HD23	2.02	0.41
1:BX:259:ILE:HB	1:BX:314:VAL:HB	2.02	0.41
2:Bg:69:TYR:CZ	2:Bg:70:LYS:HE2	2.54	0.41
2:Bx:58:LYS:H	2:Bx:115:ASN:ND2	2.18	0.41
2:CK:160:LEU:HD11	2:CK:176:SER:HB2	2.02	0.41
2:CZ:182:ALA:HB3	2:Ca:183:ILE:HD12	2.01	0.41
2:Cg:156:ASN:HB3	2:Cg:178:PHE:CZ	2.56	0.41
3:Cj:172:ASN:HB3	3:Cj:175:ILE:HD11	2.01	0.41
4:Cu:141:LEU:HD11	4:Cu:165:ALA:HB2	2.01	0.41
1:Eu:196:GLU:HB3	1:Eu:265:ASN:ND2	2.35	0.41
1:FA:174:LYS:O	1:FA:212:LYS:NZ	2.53	0.41
1:FB:97:LYS:HB3	1:FB:97:LYS:HE2	1.87	0.41
1:FQ:166:LYS:HE2	1:FQ:166:LYS:HB3	1.84	0.41
1:FU:169:VAL:HG22	1:FU:183:LYS:HG3	2.02	0.41
1:FX:201:MET:HE3	1:FX:201:MET:HB3	1.92	0.41
1:Fa:57:PRO:HA	1:Fl:86:TYR:HE1	1.84	0.41
1:Fh:175:ASP:HA	1:Fh:212:LYS:NZ	2.35	0.41
1:Fh:197:PHE:HD2	1:Fh:243:ASN:HB2	1.84	0.41
1:Fq:3:LEU:HD22	5:JA:198:ASN:C	2.45	0.41
1:Fq:16:ILE:HD12	1:Fq:116:ALA:HB1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fx:62:ASN:ND2	2:MD:102:ASP:HB2	2.35	0.41
1:Fz:67:ILE:HG13	1:GC:296:TYR:HE2	1.84	0.41
1:Fz:96:GLU:O	1:Fz:100:THR:HG23	2.20	0.41
1:GB:140:SER:HB2	1:GB:148:GLN:HG2	2.02	0.41
1:GC:278:LEU:HD12	5:JM:210:TYR:CG	2.55	0.41
1:GI:8:TYR:CD2	1:GI:93:GLN:HG3	2.54	0.41
1:GL:13:VAL:HA	1:GL:16:ILE:HG22	2.02	0.41
1:GQ:57:PRO:HA	1:LC:86:TYR:HE1	1.85	0.41
1:GS:16:ILE:HD12	1:GS:116:ALA:HB1	2.00	0.41
1:GS:159:LEU:HD12	1:GS:260:LEU:HD13	2.01	0.41
2:HG:137:LEU:HD11	2:HG:159:ALA:HB2	2.02	0.41
2:HJ:120:TYR:CE1	2:HJ:174:LEU:HB2	2.55	0.41
2:HS:23:LYS:NZ	2:HS:100:ASP:OD1	2.53	0.41
2:HV:137:LEU:HB3	2:HV:145:LEU:HD22	2.02	0.41
4:Ho:137:VAL:HG12	4:Ho:138:LYS:HG3	2.01	0.41
1:Ji:96:GLU:O	1:Ji:100:THR:HG23	2.19	0.41
1:Jj:196:GLU:HB3	1:Jj:265:ASN:ND2	2.35	0.41
1:Js:194:GLY:HA3	4:MT:36:ASN:HD22	1.84	0.41
1:Jv:260:LEU:HD23	1:Jv:260:LEU:HA	1.88	0.41
1:Jz:84:LEU:HD13	1:KC:57:PRO:HB2	2.02	0.41
1:KF:166:LYS:HE2	1:KF:166:LYS:HB3	1.84	0.41
1:KG:80:ASN:ND2	1:KG:153:PRO:O	2.52	0.41
1:KK:260:LEU:HD23	1:KK:260:LEU:HA	1.92	0.41
1:KQ:194:GLY:HA3	4:Ma:36:ASN:HB2	2.01	0.41
1:KS:87:LYS:NZ	2:Ll:53:THR:O	2.44	0.41
1:KW:286:ASP:HB2	1:KW:294:HIS:HB2	2.02	0.41
1:Kb:31:PRO:HA	5:Nl:218:TYR:CE2	2.55	0.41
1:Kc:296:TYR:HE2	1:Kd:67:ILE:HG13	1.85	0.41
1:Kf:201:MET:HE3	1:Kf:201:MET:HB3	1.96	0.41
1:Kh:49:TRP:HH2	1:Ko:111:ASN:HA	1.85	0.41
1:Kh:49:TRP:CH2	1:Kh:74:SER:HB3	2.55	0.41
1:Kh:70:ILE:HD11	1:Ko:86:TYR:HD2	1.85	0.41
1:Kz:107:ASP:OD2	1:Kz:110:ASN:ND2	2.34	0.41
2:LQ:28:ASP:OD1	2:LQ:28:ASP:N	2.51	0.41
2:LX:120:TYR:CE1	2:LX:174:LEU:HB2	2.54	0.41
2:LZ:58:LYS:H	2:LZ:115:ASN:ND2	2.18	0.41
2:Lv:114:THR:O	2:Lw:114:THR:HB	2.20	0.41
1:Oe:78:ARG:HB3	1:Oe:154:ASN:HD22	1.85	0.41
1:Oi:41:MET:HE3	1:Oi:82:LEU:HD12	2.02	0.41
1:Ol:240:ALA:HB2	1:Os:214:VAL:HG11	2.01	0.41
1:Ow:255:LEU:HD23	1:Ow:255:LEU:HA	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ox:181:PHE:CZ	1:Ox:234:LEU:HB2	2.55	0.41
1:PB:201:MET:HE3	1:PB:201:MET:HB3	1.93	0.41
1:PH:196:GLU:HB3	1:PH:265:ASN:HD22	1.84	0.41
1:PH:201:MET:HE3	1:PH:201:MET:HB3	1.96	0.41
1:PI:79:LEU:HD11	1:PI:305:LEU:HB2	2.01	0.41
1:PL:175:ASP:HA	1:PL:212:LYS:NZ	2.35	0.41
1:PO:197:PHE:CD2	1:PO:243:ASN:HB2	2.55	0.41
1:PS:195:ASP:H	4:RT:36:ASN:HD22	1.67	0.41
1:PT:283:GLU:HB2	5:Sd:199:PHE:CD2	2.55	0.41
1:PW:49:TRP:HH2	1:Pd:111:ASN:HA	1.85	0.41
1:Ph:26:TYR:O	5:Sr:218:TYR:OH	2.30	0.41
1:Pu:49:TRP:CE3	1:Ug:113:LEU:HD11	2.55	0.41
1:Pu:57:PRO:HA	1:Ug:86:TYR:HE1	1.84	0.41
1:Pv:49:TRP:CE3	1:Px:113:LEU:HD11	2.55	0.41
1:Pv:260:LEU:HD23	1:Pv:260:LEU:HA	1.85	0.41
2:QV:69:TYR:CE2	2:QV:70:LYS:HG2	2.55	0.41
2:Qk:100:ASP:HB3	2:Qk:109:THR:HB	2.02	0.41
2:Qr:37:ASP:O	2:Qr:41:GLN:NE2	2.53	0.41
2:Qv:75:LEU:HD22	2:Qv:84:LEU:HD13	2.01	0.41
2:RB:133:PRO:HG3	2:RB:161:SER:HA	2.02	0.41
4:RV:37:GLU:O	4:RV:41:LYS:HD2	2.20	0.41
4:Rc:142:ILE:HD11	4:Rc:152:VAL:HG23	2.02	0.41
1:TO:96:GLU:O	1:TO:100:THR:HG23	2.19	0.41
1:Ta:240:ALA:HB2	1:Th:214:VAL:HG11	2.01	0.41
1:Td:296:TYR:HE2	1:Tg:67:ILE:HG13	1.85	0.41
1:Th:65:ASN:ND2	2:VE:57:ASP:O	2.53	0.41
1:To:215:LYS:HA	1:To:215:LYS:HD3	1.91	0.41
1:Tx:39:LEU:O	1:Tx:274:SER:OG	2.32	0.41
1:UH:54:ASN:HD22	1:UH:69:THR:C	2.28	0.41
1:UJ:124:SER:O	1:UJ:128:LYS:HG3	2.20	0.41
1:UL:49:TRP:HH2	1:US:111:ASN:HA	1.85	0.41
1:UL:169:VAL:HB	1:UL:316:ILE:HA	2.02	0.41
1:UM:259:ILE:HB	1:UM:314:VAL:HB	2.01	0.41
1:UT:211:LEU:HD23	1:UT:211:LEU:HA	1.89	0.41
1:UV:278:LEU:HD12	5:Xf:210:TYR:CG	2.55	0.41
1:UW:96:GLU:O	1:UW:100:THR:HG23	2.20	0.41
1:Ua:79:LEU:HD11	1:Ua:305:LEU:HB2	2.02	0.41
1:Uh:77:VAL:HG21	2:VF:32:LEU:HD23	2.02	0.41
1:Uk:49:TRP:CE3	1:Um:113:LEU:HD11	2.55	0.41
1:Uk:317:LYS:HE2	1:Uk:319:SER:HB2	2.01	0.41
2:VD:165:LYS:HE3	2:VD:168:GLU:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:VN:140:ASN:ND2	2:VN:144:GLU:HB2	2.35	0.41
2:Vn:77:PHE:CD2	4:WQ:138:LYS:HG3	2.55	0.41
4:Vu:171:GLN:HE21	4:Vu:174:ASN:HA	1.84	0.41
4:Vv:142:ILE:HG13	4:Vv:152:VAL:HG22	2.02	0.41
4:WI:25:PRO:HB2	4:WI:27:HIS:CD2	2.55	0.41
4:WI:43:VAL:O	4:WI:43:VAL:HG13	2.19	0.41
4:WP:142:ILE:HD11	4:WP:152:VAL:HG23	2.02	0.41
6:YB:379:LEU:HD22	6:YC:370:VAL:HG13	2.02	0.41
6:YG:202:ASP:OD1	6:YG:203:ALA:N	2.53	0.41
5:YQ:57:GLU:HG2	5:YQ:57:GLU:H	1.68	0.41
5:YU:99:ASN:O	5:YU:103:LEU:HG	2.20	0.41
5:YX:149:GLU:HA	5:YX:152:VAL:HG22	2.02	0.41
5:YZ:99:ASN:O	5:YZ:103:LEU:HG	2.19	0.41
5:Yc:118:ARG:HB3	5:Yc:152:VAL:HG11	2.01	0.41
5:Ye:146:GLU:N	5:Ye:146:GLU:OE1	2.53	0.41
5:Yh:131:ILE:HD13	5:Yh:140:ILE:HD11	2.01	0.41
5:Yq:56:ASN:HB3	5:Zq:123:ARG:NH1	2.35	0.41
5:Yt:83:ILE:HG12	5:Yt:114:MET:HG3	2.01	0.41
5:ZN:112:ASP:OD1	5:ZN:115:GLN:NE2	2.51	0.41
5:ZP:112:ASP:OD1	5:ZP:115:GLN:NE2	2.48	0.41
5:ZS:57:GLU:HA	5:ZS:60:THR:HG22	2.01	0.41
5:ZX:76:LEU:HD23	5:ZX:79:GLU:OE2	2.20	0.41
5:Zy:99:ASN:HB3	5:Zy:102:VAL:HG22	2.02	0.41
5:ab:76:LEU:HD23	5:ab:79:GLU:OE2	2.19	0.41
5:ag:74:LYS:HA	5:ag:74:LYS:HD3	1.91	0.41
5:am:57:GLU:HA	5:am:60:THR:HG22	2.02	0.41
5:am:153:SER:HB2	5:an:133:ALA:HB1	2.02	0.41
5:ao:153:SER:HB2	5:ap:133:ALA:HB1	2.01	0.41
5:aq:55:ILE:HG21	5:bW:116:ALA:HB2	2.02	0.41
5:au:55:ILE:HG21	5:ba:116:ALA:HB2	2.01	0.41
5:au:62:GLU:OE1	5:ba:97:HIS:NE2	2.53	0.41
5:bG:99:ASN:HB3	5:bG:102:VAL:HG22	2.02	0.41
5:bQ:57:GLU:HA	5:bQ:60:THR:HG22	2.01	0.41
5:bU:99:ASN:O	5:bU:103:LEU:HG	2.20	0.41
5:bZ:76:LEU:HD23	5:bZ:79:GLU:OE2	2.20	0.41
5:bl:112:ASP:OD1	5:bl:115:GLN:NE2	2.48	0.41
5:bz:112:ASP:OD1	5:bz:115:GLN:NE2	2.48	0.41
5:cO:98:PHE:HB3	5:cO:117:GLN:HE22	1.85	0.41
5:cQ:94:LEU:HD11	5:cQ:121:LEU:HG	2.02	0.41
5:cU:99:ASN:O	5:cU:103:LEU:HG	2.20	0.41
5:cY:57:GLU:HA	5:cY:60:THR:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ca:99:ASN:O	5:ca:103:LEU:HG	2.19	0.41
5:ce:99:ASN:O	5:ce:103:LEU:HG	2.20	0.41
5:cx:76:LEU:HD23	5:cx:79:GLU:OE2	2.20	0.41
5:dM:94:LEU:HD11	5:dM:121:LEU:HG	2.01	0.41
5:dQ:57:GLU:HA	5:dQ:60:THR:HG22	2.01	0.41
5:dU:99:ASN:HB3	5:dU:102:VAL:HG22	2.02	0.41
5:df:143:ILE:HD12	5:df:143:ILE:HA	1.92	0.41
5:di:94:LEU:HD11	5:di:121:LEU:HG	2.01	0.41
5:dm:131:ILE:HD13	5:dm:140:ILE:HD11	2.01	0.41
5:do:99:ASN:HB3	5:do:102:VAL:HG22	2.02	0.41
5:dq:63:LEU:HD11	5:eZ:136:LYS:HD2	2.02	0.41
5:eG:99:ASN:HB3	5:eG:102:VAL:HG22	2.02	0.41
5:eM:99:ASN:HB3	5:eM:102:VAL:HG22	2.02	0.41
5:eQ:153:SER:HB2	5:eR:133:ALA:HB1	2.01	0.41
5:eo:153:SER:HB2	5:ep:133:ALA:HB1	2.02	0.41
5:fO:57:GLU:HA	5:fO:60:THR:HG22	2.02	0.41
5:fZ:136:LYS:HE3	5:fZ:136:LYS:HB2	1.90	0.41
1:AD:275:LYS:HE3	1:AD:276:TYR:CZ	2.55	0.41
1:AJ:121:LEU:HB3	1:AM:51:ALA:HB2	2.02	0.41
1:AN:57:PRO:HA	1:AR:86:TYR:CE1	2.53	0.41
1:AO:57:PRO:HG2	1:AS:84:LEU:HD13	2.01	0.41
1:Ag:66:THR:HA	3:Cj:100:SER:HB2	2.01	0.41
1:Aj:278:LEU:HD23	1:Aj:278:LEU:HA	1.86	0.41
1:Aq:85:GLN:HE21	1:FX:67:ILE:HD13	1.84	0.41
1:As:13:VAL:HG11	1:As:281:PRO:HG2	2.01	0.41
1:At:26:TYR:O	5:ED:218:TYR:OH	2.29	0.41
1:BA:283:GLU:HB2	5:EK:199:PHE:CD2	2.55	0.41
1:BD:178:ASP:OD1	1:BD:179:LYS:N	2.53	0.41
1:BF:257:HIS:ND1	1:BF:318:GLN:HG3	2.35	0.41
1:BI:62:ASN:ND2	2:HO:102:ASP:HB2	2.35	0.41
1:BJ:113:LEU:HD11	1:GB:49:TRP:CE3	2.55	0.41
1:BK:158:LEU:HB3	1:BK:260:LEU:HD21	2.02	0.41
1:BL:49:TRP:CH2	1:BL:74:SER:HB3	2.55	0.41
1:BN:178:ASP:N	1:BN:178:ASP:OD1	2.52	0.41
1:BO:33:GLN:NE2	1:BO:269:ILE:O	2.45	0.41
1:BR:84:LEU:HB3	1:Fq:57:PRO:HB2	2.02	0.41
1:BX:60:ILE:HG23	1:Uh:290:THR:HG22	2.02	0.41
1:Ba:87:LYS:NZ	4:DJ:53:THR:O	2.43	0.41
1:Bd:82:LEU:HD12	1:Bd:82:LEU:HA	1.94	0.41
2:Bo:120:TYR:CE1	2:Bo:174:LEU:HB2	2.55	0.41
2:Bv:58:LYS:H	2:Bv:115:ASN:ND2	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CE:113:ILE:HD12	2:CE:113:ILE:HA	1.88	0.41
4:Cm:171:GLN:HE21	4:Cm:174:ASN:HA	1.84	0.41
4:Cu:171:GLN:HB2	4:Cu:177:TYR:CE1	2.55	0.41
4:Cz:159:ALA:HB3	4:Cz:187:LYS:HD2	2.01	0.41
4:DA:25:PRO:HB2	4:DA:27:HIS:CD2	2.55	0.41
4:DB:23:LYS:N	4:DB:67:TYR:OH	2.52	0.41
4:DG:25:PRO:HB2	4:DG:27:HIS:CD2	2.55	0.41
5:DU:189:LEU:HD11	5:DU:206:ILE:HG12	2.01	0.41
1:FF:97:LYS:HE2	1:FF:97:LYS:HB3	1.89	0.41
1:FG:260:LEU:HD23	1:FG:260:LEU:HA	1.87	0.41
1:FO:181:PHE:CZ	1:FO:234:LEU:HB2	2.55	0.41
1:FP:16:ILE:HD11	1:FP:120:LYS:HE3	2.02	0.41
1:FR:196:GLU:HB3	1:FR:265:ASN:ND2	2.35	0.41
1:FY:96:GLU:O	1:FY:100:THR:HG23	2.19	0.41
1:Fj:84:LEU:HD13	1:Fp:57:PRO:HB2	2.03	0.41
1:Fk:158:LEU:HB3	1:Fk:260:LEU:HD21	2.01	0.41
1:Fn:152:LEU:HD21	2:HE:105:SER:HA	2.01	0.41
1:Fn:201:MET:HE3	1:Fn:201:MET:HB3	1.98	0.41
1:Fq:24:ILE:HG12	1:Fq:131:ASN:ND2	2.35	0.41
1:Fr:57:PRO:HG2	1:Fu:84:LEU:HD13	2.02	0.41
1:Fs:70:ILE:HD11	1:Fz:86:TYR:HD2	1.84	0.41
1:Fs:306:ALA:O	2:HO:31:LEU:HD22	2.20	0.41
1:Ft:181:PHE:HA	1:Ft:184:ILE:HD12	2.01	0.41
1:Fv:66:THR:HG22	4:Hr:52:ARG:HB3	2.01	0.41
1:GA:166:LYS:HE2	1:GA:166:LYS:HB3	1.90	0.41
1:GO:96:GLU:O	1:GO:100:THR:HG23	2.20	0.41
2:Gk:58:LYS:H	2:Gk:115:ASN:ND2	2.18	0.41
2:Gm:58:LYS:H	2:Gm:115:ASN:ND2	2.18	0.41
2:Gz:137:LEU:HD11	2:Gz:159:ALA:HB2	2.02	0.41
2:HC:75:LEU:HD22	2:HC:84:LEU:HD13	2.02	0.41
2:HE:137:LEU:HD11	2:HE:159:ALA:HB2	2.00	0.41
2:HN:137:LEU:HB3	2:HN:145:LEU:HD22	2.02	0.41
5:JB:211:LYS:HG3	5:JB:214:ARG:NH2	2.34	0.41
1:Jn:275:LYS:HE3	1:Jn:276:TYR:CZ	2.55	0.41
1:Jz:13:VAL:HA	1:Jz:16:ILE:HG22	2.01	0.41
1:Jz:196:GLU:HB3	1:Jz:265:ASN:HD22	1.84	0.41
1:KD:65:ASN:ND2	2:La:57:ASP:O	2.53	0.41
1:KI:96:GLU:O	1:KI:100:THR:HG23	2.20	0.41
1:KJ:196:GLU:HB3	1:KJ:265:ASN:ND2	2.35	0.41
1:KU:49:TRP:CZ3	1:KU:74:SER:HB3	2.55	0.41
1:KV:80:ASN:HD22	1:KV:152:LEU:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KW:175:ASP:HA	1:KW:212:LYS:NZ	2.35	0.41
1:Kr:278:LEU:HD12	5:OB:210:TYR:CG	2.55	0.41
1:Ky:77:VAL:HA	2:Lz:29:SER:O	2.21	0.41
1:Kz:20:VAL:HG23	5:OJ:213:ARG:HH22	1.83	0.41
1:LF:49:TRP:CE3	1:Pr:113:LEU:HD11	2.55	0.41
1:LG:178:ASP:OD1	1:LG:178:ASP:N	2.52	0.41
1:LG:181:PHE:CZ	1:LG:234:LEU:HB2	2.54	0.41
2:Lp:180:ASN:O	2:Lq:180:ASN:ND2	2.53	0.41
2:MC:165:LYS:HB2	2:MC:171:PHE:CE2	2.55	0.41
1:Ob:192:GLU:HB3	2:Uz:36:ILE:HD11	2.01	0.41
1:Oc:96:GLU:O	1:Oc:100:THR:HG23	2.20	0.41
1:Og:152:LEU:HD21	4:RG:112:SER:HA	2.02	0.41
1:Oh:286:ASP:HB2	1:Oh:294:HIS:HB2	2.02	0.41
1:Ol:66:THR:HG22	2:QS:52:CYS:HB3	2.01	0.41
1:On:16:ILE:HD11	1:On:120:LYS:HE3	2.02	0.41
1:Oq:55:ALA:HA	1:Pw:141:ILE:HD13	2.02	0.41
1:Oy:196:GLU:HB3	1:Oy:265:ASN:ND2	2.36	0.41
1:PF:41:MET:HE3	1:PF:82:LEU:HD12	2.02	0.41
1:PK:227:CYS:HG	1:PK:228:GLU:H	1.64	0.41
1:PS:307:THR:HG22	4:RT:32:LEU:HB2	2.01	0.41
1:PT:86:TYR:CE1	1:Pc:57:PRO:HA	2.56	0.41
1:PU:3:LEU:HD22	5:Se:198:ASN:C	2.45	0.41
1:Pi:211:LEU:HD23	1:Pi:211:LEU:HA	1.86	0.41
1:Pj:195:ASP:OD2	1:UK:21:LYS:NZ	2.52	0.41
1:Pp:25:MET:HE1	1:Pp:130:ILE:HG22	2.01	0.41
1:Pr:107:ASP:OD2	1:Pr:110:ASN:ND2	2.38	0.41
1:Pu:20:VAL:HG23	5:TE:213:ARG:HH22	1.85	0.41
1:Pv:49:TRP:CZ3	1:Pv:74:SER:HB3	2.54	0.41
1:Pw:159:LEU:HD12	1:Pw:260:LEU:HD13	2.01	0.41
1:Pw:201:MET:HE3	1:Pw:201:MET:HB3	1.96	0.41
2:QV:64:ALA:HB2	2:QV:108:ALA:HB2	2.01	0.41
2:QX:181:ARG:HH22	2:QY:94:LEU:HB3	1.85	0.41
2:Qh:123:LEU:HD13	2:Qh:173:VAL:HG11	2.02	0.41
2:Qh:153:LYS:HG3	2:Qh:154:SER:H	1.85	0.41
2:Qq:125:LYS:NZ	2:Qq:168:GLU:O	2.39	0.41
2:Qz:133:PRO:HG3	2:Qz:161:SER:HA	2.02	0.41
4:RW:142:ILE:HD11	4:RW:152:VAL:HG23	2.02	0.41
1:TK:306:ALA:O	4:Vs:31:LEU:HB2	2.20	0.41
1:TR:121:LEU:HB3	1:TU:51:ALA:HB2	2.02	0.41
1:Td:194:GLY:HA3	2:Uv:36:ILE:HD12	2.01	0.41
1:Tn:169:VAL:HG22	1:Tn:183:LYS:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Tz:164:GLN:NE2	1:Tz:307:THR:O	2.30	0.41
1:UC:158:LEU:HB3	1:UC:260:LEU:HD21	2.02	0.41
1:UW:196:GLU:HB3	1:UW:265:ASN:HD22	1.85	0.41
1:UX:211:LEU:HD23	1:UX:211:LEU:HA	1.86	0.41
1:UY:175:ASP:HA	1:UY:212:LYS:NZ	2.34	0.41
1:Uc:101:SER:OG	1:Uc:102:ASP:N	2.54	0.41
1:Uk:267:GLU:H	1:Uk:267:GLU:HG2	1.69	0.41
2:VG:114:THR:O	2:VH:114:THR:HB	2.20	0.41
2:VZ:100:ASP:HB3	2:VZ:109:THR:HB	2.02	0.41
4:Vw:179:VAL:HG13	4:Vw:181:VAL:HG23	2.02	0.41
4:WO:25:PRO:HB2	4:WO:27:HIS:CD2	2.55	0.41
5:XJ:211:LYS:HG3	5:XJ:214:ARG:HH21	1.85	0.41
6:Xy:270:TYR:OH	6:YC:198:VAL:N	2.53	0.41
6:YH:290:GLU:O	6:YH:294:LEU:HG	2.19	0.41
6:YI:241:ASP:O	6:YI:245:LEU:HG	2.20	0.41
5:YJ:59:ILE:HG23	5:YX:147:ILE:HG22	2.01	0.41
5:YZ:55:ILE:HG21	5:ZO:113:ILE:HG12	2.01	0.41
5:YZ:59:ILE:HG13	5:ZO:98:PHE:CE1	2.55	0.41
5:YZ:75:GLN:O	5:YZ:79:GLU:HG2	2.20	0.41
5:Yi:83:ILE:HA	5:Yi:114:MET:HE2	2.02	0.41
5:Yq:55:ILE:CG2	5:Zq:116:ALA:HB1	2.50	0.41
5:Yw:150:GLN:NE2	5:Yx:147:ILE:HG12	2.35	0.41
5:ZD:156:LYS:HA	5:ZD:159:ILE:HG22	2.00	0.41
5:ZF:128:ILE:O	5:ZF:132:LYS:HG2	2.20	0.41
5:Zc:57:GLU:HA	5:Zc:60:THR:HG22	2.02	0.41
5:Zc:113:ILE:O	5:Zc:117:GLN:HG2	2.20	0.41
5:Zm:95:SER:HB3	5:Zm:98:PHE:HE1	1.85	0.41
5:Zm:153:SER:HB2	5:Zn:133:ALA:HB1	2.01	0.41
5:Zo:153:SER:HB2	5:Zp:133:ALA:HB1	2.01	0.41
5:Zy:57:GLU:HA	5:Zy:60:THR:HG22	2.02	0.41
5:aQ:74:LYS:HA	5:aQ:74:LYS:HD3	1.91	0.41
5:aR:136:LYS:HE3	5:aR:136:LYS:HB2	1.89	0.41
5:aw:57:GLU:HA	5:aw:60:THR:HG22	2.01	0.41
5:bD:143:ILE:HD12	5:bD:143:ILE:HA	1.92	0.41
5:bU:57:GLU:HA	5:bU:60:THR:HG22	2.02	0.41
5:bV:76:LEU:HD23	5:bV:79:GLU:OE2	2.20	0.41
5:cD:143:ILE:HD12	5:cD:143:ILE:HA	1.92	0.41
5:cE:99:ASN:O	5:cE:103:LEU:HG	2.20	0.41
5:cG:153:SER:HB2	5:cH:133:ALA:HB1	2.01	0.41
5:cS:153:SER:HB2	5:cT:133:ALA:HB1	2.02	0.41
5:cg:99:ASN:O	5:cg:103:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ck:94:LEU:HD11	5:ck:121:LEU:HG	2.02	0.41
5:ck:98:PHE:HB3	5:ck:117:GLN:HE22	1.85	0.41
5:cr:76:LEU:HD23	5:cr:79:GLU:OE2	2.20	0.41
5:dE:55:ILE:HD13	5:dk:116:ALA:HB1	2.02	0.41
5:dJ:112:ASP:OD1	5:dJ:115:GLN:NE2	2.49	0.41
5:dK:57:GLU:HA	5:dK:60:THR:HG22	2.01	0.41
5:dK:99:ASN:HB3	5:dK:102:VAL:HG22	2.03	0.41
5:dg:59:ILE:O	5:dg:63:LEU:HD23	2.20	0.41
5:dr:76:LEU:HD23	5:dr:79:GLU:OE2	2.20	0.41
5:eE:59:ILE:O	5:eE:63:LEU:HD23	2.19	0.41
5:eK:59:ILE:O	5:eK:63:LEU:HD23	2.20	0.41
5:eY:74:LYS:HA	5:eY:74:LYS:HD3	1.91	0.41
5:ea:99:ASN:HB3	5:ea:102:VAL:HG22	2.02	0.41
5:eg:136:LYS:HE3	5:eg:136:LYS:HB2	1.96	0.41
5:ek:99:ASN:HB3	5:ek:102:VAL:HG22	2.02	0.41
5:em:113:ILE:O	5:em:117:GLN:HG2	2.20	0.41
5:es:74:LYS:HA	5:es:74:LYS:HD3	1.91	0.41
5:es:98:PHE:CD2	5:fY:55:ILE:HD11	2.56	0.41
5:ev:143:ILE:HD12	5:ev:143:ILE:HA	1.91	0.41
5:ey:98:PHE:HD2	5:fe:55:ILE:HD11	1.86	0.41
5:fA:57:GLU:HA	5:fA:60:THR:HG22	2.02	0.41
5:fC:153:SER:HB2	5:fD:133:ALA:HB1	2.02	0.41
5:fg:94:LEU:HD11	5:fg:121:LEU:HG	2.01	0.41
5:fl:112:ASP:OD1	5:fl:115:GLN:NE2	2.48	0.41
5:fl:135:ALA:HB1	5:fl:143:ILE:HG12	2.02	0.41
5:fs:94:LEU:HD11	5:fs:121:LEU:HG	2.02	0.41
1:AA:112:LEU:HD12	1:AA:112:LEU:HA	1.92	0.41
1:AK:165:ILE:HD12	1:AK:191:LEU:HD23	2.01	0.41
1:AN:87:LYS:NZ	2:Bp:53:THR:O	2.46	0.41
1:AT:286:ASP:HB2	1:AT:294:HIS:HB2	2.01	0.41
1:AX:80:ASN:ND2	1:AX:153:PRO:O	2.53	0.41
1:AX:211:LEU:O	1:AX:214:VAL:HG22	2.21	0.41
1:AZ:49:TRP:CE3	1:AZ:74:SER:HB3	2.55	0.41
1:Am:239:LYS:HA	1:Am:242:ASN:OD1	2.20	0.41
1:Am:256:LYS:O	1:Am:258:LYS:HG2	2.20	0.41
1:Au:84:LEU:HD13	1:BA:57:PRO:HB2	2.02	0.41
1:Au:178:ASP:OD1	1:Au:178:ASP:N	2.53	0.41
1:Ay:96:GLU:O	1:Ay:100:THR:HG23	2.20	0.41
1:BH:82:LEU:HD12	1:BH:82:LEU:HA	1.93	0.41
1:BI:157:GLY:N	1:BI:160:ASN:OD1	2.48	0.41
1:BL:80:ASN:HB2	1:BL:155:MET:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:211:LEU:HD23	1:BL:211:LEU:HA	1.89	0.41
1:BM:28:TRP:O	1:BM:262:TYR:OH	2.30	0.41
1:BN:165:ILE:HD13	1:BN:191:LEU:HD23	2.02	0.41
1:BV:239:LYS:HA	1:BV:242:ASN:OD1	2.21	0.41
1:BX:174:LYS:O	1:BX:212:LYS:NZ	2.53	0.41
1:BY:86:TYR:HE1	1:Uj:57:PRO:HA	1.84	0.41
2:CQ:133:PRO:HG3	2:CQ:161:SER:HA	2.02	0.41
4:Cl:127:TYR:CE1	4:Cl:180:LYS:HB2	2.56	0.41
1:Er:77:VAL:HG21	4:HZ:32:LEU:HD23	2.02	0.41
1:FD:286:ASP:HB2	1:FD:294:HIS:HB2	2.03	0.41
1:FE:36:ASP:CG	5:IO:214:ARG:HH22	2.28	0.41
1:FL:41:MET:HE1	4:Hf:112:SER:HB3	2.02	0.41
1:FR:13:VAL:HG11	1:FR:281:PRO:HG2	2.01	0.41
1:Fb:239:LYS:HA	1:Fb:242:ASN:OD1	2.20	0.41
1:Fh:278:LEU:HD23	1:Fh:278:LEU:HA	1.89	0.41
1:Fi:211:LEU:HD23	1:Fi:211:LEU:HA	1.88	0.41
1:Fn:296:TYR:HE2	1:Fo:67:ILE:HG13	1.85	0.41
1:Fx:49:TRP:CE3	1:Kp:113:LEU:HD11	2.56	0.41
1:GD:13:VAL:HA	1:GD:16:ILE:HG22	2.02	0.41
1:GD:196:GLU:HB3	1:GD:265:ASN:HD22	1.85	0.41
1:GG:260:LEU:HD23	1:GG:260:LEU:HA	1.90	0.41
1:GP:96:GLU:O	1:GP:100:THR:HG23	2.21	0.41
1:GS:158:LEU:HB3	1:GS:260:LEU:HD21	2.02	0.41
2:Gu:140:ASN:ND2	2:Gu:144:GLU:HB2	2.35	0.41
2:HH:181:ARG:HG2	2:HH:182:ALA:H	1.85	0.41
2:HI:23:LYS:N	2:HI:67:TYR:OH	2.52	0.41
2:HR:156:ASN:HB3	2:HR:178:PHE:CZ	2.54	0.41
4:Hm:133:SER:HB3	4:Hm:177:TYR:CE1	2.55	0.41
1:Jf:290:THR:HG22	1:OU:60:ILE:HG23	2.03	0.41
1:Jg:77:VAL:HG21	4:MO:32:LEU:HD23	2.03	0.41
1:Jj:216:PRO:HB2	1:Jj:224:ALA:HB1	2.01	0.41
1:Jj:301:LEU:HD23	1:Jj:301:LEU:HA	1.90	0.41
1:Jn:96:GLU:O	1:Jn:100:THR:HG23	2.20	0.41
1:Jn:282:ASN:OD1	1:Jn:283:GLU:N	2.53	0.41
1:Jt:260:LEU:HD23	1:Jt:260:LEU:HA	1.93	0.41
1:Ju:8:TYR:CD2	1:Ju:93:GLN:HG3	2.55	0.41
1:KG:260:LEU:HD23	1:KG:260:LEU:HA	1.95	0.41
1:KQ:41:MET:HE3	1:KQ:82:LEU:HD12	2.02	0.41
1:KT:81:TYR:OH	1:KT:272:LYS:O	2.27	0.41
1:KY:82:LEU:HD12	1:KY:82:LEU:HA	1.93	0.41
1:KZ:256:LYS:HE3	1:KZ:256:LYS:HB2	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kc:175:ASP:HA	1:Kc:212:LYS:NZ	2.34	0.41
1:Ke:283:GLU:HB2	5:No:199:PHE:CD2	2.55	0.41
1:Km:62:ASN:ND2	2:Qs:102:ASP:HB2	2.35	0.41
1:Ks:191:LEU:HD23	1:Ks:191:LEU:HA	1.92	0.41
1:Kz:178:ASP:OD1	1:Kz:178:ASP:N	2.53	0.41
1:LA:13:VAL:HA	1:LA:16:ILE:HG22	2.02	0.41
1:LB:174:LYS:O	1:LB:212:LYS:NZ	2.53	0.41
1:LD:96:GLU:O	1:LD:100:THR:HG23	2.20	0.41
2:LJ:183:ILE:H	2:LL:183:ILE:H	1.67	0.41
2:LV:153:LYS:HA	2:LV:181:ARG:HH21	1.84	0.41
2:Lc:181:ARG:NH1	2:Ld:94:LEU:O	2.50	0.41
2:Lg:69:TYR:CE2	2:Lg:70:LYS:HG2	2.55	0.41
2:Lr:75:LEU:HD22	2:Lr:84:LEU:HD13	2.02	0.41
2:Lt:181:ARG:HH12	2:Lu:94:LEU:HB3	1.86	0.41
2:MC:156:ASN:HB3	2:MC:178:PHE:CZ	2.53	0.41
2:MG:23:LYS:N	2:MG:67:TYR:OH	2.53	0.41
4:Mh:142:ILE:HD11	4:Mh:152:VAL:HG23	2.02	0.41
4:Mk:25:PRO:HB2	4:Mk:27:HIS:CD2	2.55	0.41
1:OV:306:ALA:O	4:RD:31:LEU:HB2	2.20	0.41
1:Ob:196:GLU:OE1	1:Ob:265:ASN:ND2	2.51	0.41
1:Od:165:ILE:HD12	1:Od:191:LEU:HD23	2.01	0.41
1:Oh:194:GLY:HA3	4:RI:36:ASN:HD22	1.84	0.41
1:Om:286:ASP:HB2	1:Om:294:HIS:HB2	2.01	0.41
1:Ou:17:ILE:HD12	1:Ou:17:ILE:HA	1.96	0.41
1:Oy:308:ARG:HG3	4:RM:33:SER:HA	2.03	0.41
1:PD:87:LYS:NZ	2:QY:53:THR:O	2.44	0.41
1:PI:142:GLN:NE2	1:PI:147:ASN:OD1	2.50	0.41
1:PL:239:LYS:HA	1:PL:242:ASN:OD1	2.20	0.41
1:PN:86:TYR:CE1	1:PT:57:PRO:HA	2.53	0.41
1:PO:54:ASN:OD1	2:QY:47:ASN:ND2	2.40	0.41
1:PO:256:LYS:HE3	1:PO:256:LYS:HB2	1.83	0.41
1:PP:49:TRP:CE3	1:PP:74:SER:HB3	2.56	0.41
1:PR:86:TYR:OH	1:PS:55:ALA:O	2.23	0.41
1:PR:282:ASN:OD1	1:PR:283:GLU:N	2.54	0.41
1:Pk:84:LEU:HB3	1:UJ:57:PRO:HB2	2.02	0.41
1:Pp:196:GLU:OE1	1:Pp:265:ASN:ND2	2.53	0.41
1:Pq:174:LYS:O	1:Pq:212:LYS:NZ	2.53	0.41
1:Ps:77:VAL:HG21	2:QQ:32:LEU:HD23	2.02	0.41
1:Pt:87:LYS:NZ	4:Rc:53:THR:O	2.38	0.41
1:Pv:51:ALA:O	4:RL:41:LYS:NZ	2.47	0.41
2:Pz:68:PRO:HD2	2:Pz:101:ILE:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ql:181:ARG:HG2	2:Ql:182:ALA:H	1.85	0.41
2:Qn:165:LYS:HB2	2:Qn:171:PHE:CE2	2.56	0.41
2:Qr:165:LYS:HB2	2:Qr:171:PHE:CE2	2.55	0.41
2:Qz:156:ASN:HB3	2:Qz:178:PHE:CZ	2.56	0.41
4:RS:137:VAL:HG12	4:RS:138:LYS:HG3	2.02	0.41
4:RX:144:ASN:HD21	4:RX:148:ALA:HB3	1.84	0.41
1:TK:205:VAL:HG12	1:TK:259:ILE:HG23	2.02	0.41
1:TK:260:LEU:HD23	1:TK:260:LEU:HA	1.92	0.41
1:TN:31:PRO:HG3	5:WX:218:TYR:CG	2.55	0.41
1:TR:260:LEU:HD23	1:TR:260:LEU:HA	1.95	0.41
1:TT:67:ILE:HG13	1:Te:296:TYR:HE2	1.85	0.41
1:TT:174:LYS:O	1:TT:212:LYS:NZ	2.53	0.41
1:TZ:78:ARG:HH21	2:Uz:104:PHE:HE1	1.69	0.41
1:Tg:196:GLU:OE1	1:Tg:265:ASN:ND2	2.53	0.41
1:Ti:16:ILE:HD11	1:Ti:120:LYS:HE3	2.02	0.41
1:Ts:19:GLU:OE1	1:Ts:120:LYS:NZ	2.31	0.41
1:Tz:19:GLU:HA	1:Tz:120:LYS:HD3	2.01	0.41
1:UK:57:PRO:HB2	1:UN:84:LEU:HB3	2.01	0.41
1:UN:39:LEU:O	1:UN:274:SER:OG	2.26	0.41
1:UT:49:TRP:CH2	1:UT:74:SER:HB3	2.55	0.41
1:UW:13:VAL:HA	1:UW:16:ILE:HG22	2.02	0.41
1:Ua:178:ASP:OD1	1:Ua:179:LYS:N	2.53	0.41
1:Uf:79:LEU:HD23	1:Uf:79:LEU:HA	1.92	0.41
2:Uy:120:TYR:CE1	2:Uy:174:LEU:HB2	2.56	0.41
2:VH:125:LYS:NZ	2:VH:169:ASP:OD1	2.54	0.41
2:VP:165:LYS:HE3	2:VP:168:GLU:HA	2.02	0.41
2:VQ:167:THR:HB	2:VQ:170:LEU:HB3	2.02	0.41
2:VW:123:LEU:HD13	2:VW:173:VAL:HG11	2.02	0.41
2:Vc:69:TYR:HB2	2:Vc:101:ILE:HD12	2.01	0.41
2:Vo:165:LYS:HB2	2:Vo:171:PHE:CE2	2.55	0.41
4:WA:166:LEU:HD12	4:WA:180:LYS:HE2	2.01	0.41
4:WI:120:ILE:HD12	4:WI:120:ILE:HA	1.95	0.41
4:WP:133:SER:HB3	4:WP:177:TYR:CE1	2.55	0.41
6:Xx:18:LEU:HD12	6:Xx:18:LEU:HA	1.89	0.41
6:YB:181:GLU:HA	6:YF:172:LEU:HD21	2.02	0.41
6:YD:168:LEU:HD11	6:YE:181:GLU:HG3	2.02	0.41
5:YJ:131:ILE:HD13	5:YJ:140:ILE:HD11	2.02	0.41
5:YR:53:LEU:C	5:YR:54:SER:HG	2.27	0.41
5:YT:131:ILE:HD13	5:YT:140:ILE:HD11	2.01	0.41
5:YV:131:ILE:HD13	5:YV:140:ILE:HD11	2.01	0.41
5:YZ:72:ILE:O	5:YZ:76:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yi:76:LEU:HD23	5:Yi:79:GLU:OE2	2.20	0.41
5:Yi:83:ILE:HG12	5:Yi:114:MET:HG3	2.01	0.41
5:Yj:140:ILE:HG23	5:Yj:143:ILE:HB	2.03	0.41
5:ZM:72:ILE:O	5:ZM:76:LEU:HG	2.20	0.41
5:Za:99:ASN:HB3	5:Za:102:VAL:HG22	2.03	0.41
5:Zb:112:ASP:OD1	5:Zb:115:GLN:NE2	2.48	0.41
5:Zc:118:ARG:HB3	5:Zc:152:VAL:HG11	2.03	0.41
5:Zf:143:ILE:HD12	5:Zf:143:ILE:HA	1.92	0.41
5:Zi:55:ILE:HD13	5:aO:116:ALA:HB1	2.01	0.41
5:Zm:113:ILE:O	5:Zm:117:GLN:HG2	2.20	0.41
5:Zq:74:LYS:HA	5:Zq:74:LYS:HD3	1.91	0.41
5:Zs:57:GLU:HA	5:Zs:60:THR:HG22	2.01	0.41
5:Zt:143:ILE:HD12	5:Zt:143:ILE:HA	1.91	0.41
5:Zw:99:ASN:HB3	5:Zw:102:VAL:HG22	2.02	0.41
5:ao:94:LEU:HD11	5:ao:121:LEU:HG	2.00	0.41
5:aq:86:ILE:HD11	5:aq:118:ARG:HE	1.84	0.41
5:ar:76:LEU:HD23	5:ar:79:GLU:OE2	2.20	0.41
5:ar:143:ILE:HD12	5:ar:143:ILE:HA	1.92	0.41
5:as:153:SER:HB2	5:at:133:ALA:HB1	2.01	0.41
5:at:76:LEU:HD23	5:at:79:GLU:OE2	2.20	0.41
5:au:111:LYS:HZ2	5:ax:74:LYS:HE3	1.82	0.41
5:az:76:LEU:HD23	5:az:79:GLU:OE2	2.20	0.41
5:bQ:153:SER:HB2	5:bR:133:ALA:HB1	2.01	0.41
5:bR:135:ALA:HB1	5:bR:143:ILE:HG12	2.03	0.41
5:bW:99:ASN:O	5:bW:103:LEU:HG	2.21	0.41
5:bY:99:ASN:O	5:bY:103:LEU:HG	2.21	0.41
5:ba:99:ASN:O	5:ba:103:LEU:HG	2.20	0.41
5:bn:143:ILE:HD12	5:bn:143:ILE:HA	1.92	0.41
5:bu:57:GLU:HA	5:bu:60:THR:HG22	2.01	0.41
5:bw:98:PHE:HB3	5:bw:117:GLN:HE22	1.85	0.41
5:cR:76:LEU:HD23	5:cR:79:GLU:OE2	2.20	0.41
5:cU:57:GLU:HA	5:cU:60:THR:HG22	2.01	0.41
5:cZ:135:ALA:HB1	5:cZ:143:ILE:HG12	2.02	0.41
5:ci:86:ILE:HD11	5:ci:118:ARG:HE	1.84	0.41
5:ck:74:LYS:HA	5:ck:74:LYS:HD3	1.91	0.41
5:dO:94:LEU:HD11	5:dO:121:LEU:HG	2.02	0.41
5:dj:146:GLU:CD	5:eQ:58:ARG:HH21	2.28	0.41
5:dk:74:LYS:HA	5:dk:74:LYS:HD3	1.91	0.41
5:dn:136:LYS:HE3	5:dn:136:LYS:HB2	1.76	0.41
5:ds:147:ILE:CD1	5:ea:55:ILE:HG12	2.47	0.41
5:eI:56:ASN:HD22	5:eq:145:GLY:HA3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eM:143:ILE:HD12	5:eM:143:ILE:HG23	1.88	0.41
5:eU:140:ILE:HG22	5:eU:140:ILE:O	2.20	0.41
5:eo:143:ILE:HD12	5:eo:143:ILE:HG23	1.83	0.41
5:et:143:ILE:HD12	5:et:143:ILE:HA	1.92	0.41
5:fI:94:LEU:HD11	5:fI:121:LEU:HG	2.01	0.41
1:AC:86:TYR:OH	1:Eq:55:ALA:O	2.34	0.41
1:AC:205:VAL:HG12	1:AC:259:ILE:HG23	2.03	0.41
1:AC:306:ALA:O	4:Ck:31:LEU:HB2	2.20	0.41
1:AU:16:ILE:HD11	1:AU:120:LYS:HE3	2.02	0.41
1:AU:272:LYS:N	1:AU:303:GLY:O	2.46	0.41
1:AV:282:ASN:OD1	1:AV:283:GLU:N	2.53	0.41
1:AY:85:GLN:HB3	1:AZ:60:ILE:HD11	2.01	0.41
1:Aa:255:LEU:HD23	1:Aa:255:LEU:HA	1.92	0.41
1:Af:196:GLU:HB3	1:Af:265:ASN:ND2	2.35	0.41
1:Ak:256:LYS:HE3	1:Ak:256:LYS:HB2	1.91	0.41
1:Al:178:ASP:OD1	1:Al:178:ASP:N	2.53	0.41
1:Am:31:PRO:HG3	5:Dw:218:TYR:CD1	2.55	0.41
1:Ao:188:LEU:HD23	1:Ao:188:LEU:HA	1.88	0.41
1:Ap:112:LEU:HD21	1:Ap:292:VAL:HG22	2.01	0.41
1:Ar:66:THR:HG22	2:Gs:52:CYS:SG	2.60	0.41
1:As:286:ASP:HB2	1:As:294:HIS:HB2	2.01	0.41
1:Aw:196:GLU:OE1	1:Aw:265:ASN:ND2	2.45	0.41
1:Az:54:ASN:HD22	1:Az:69:THR:C	2.28	0.41
1:BA:113:LEU:HD11	1:BJ:49:TRP:CZ3	2.55	0.41
1:BB:124:SER:O	1:BB:128:LYS:HG3	2.20	0.41
1:BC:51:ALA:O	4:DD:41:LYS:NZ	2.46	0.41
1:BG:296:TYR:CE2	1:BH:67:ILE:HG13	2.54	0.41
1:BK:66:THR:HG22	2:CQ:52:CYS:HB3	2.01	0.41
1:BT:196:GLU:HB3	1:BT:265:ASN:HD22	1.85	0.41
1:BU:101:SER:OG	1:BU:102:ASP:N	2.53	0.41
1:BV:178:ASP:OD1	1:BV:178:ASP:N	2.53	0.41
1:Ba:259:ILE:HB	1:Ba:314:VAL:HB	2.03	0.41
2:Bo:167:THR:HG22	2:Bo:168:GLU:H	1.86	0.41
2:Bs:120:TYR:CE1	2:Bs:174:LEU:HB2	2.55	0.41
2:Bt:58:LYS:HD3	4:Cp:123:ASN:HD21	1.85	0.41
2:CO:23:LYS:HG3	2:CO:24:ASN:N	2.36	0.41
2:CR:100:ASP:HB3	2:CR:109:THR:HB	2.02	0.41
2:CX:123:LEU:HD21	2:CX:131:VAL:HG21	2.02	0.41
1:Ex:33:GLN:NE2	1:Ex:269:ILE:O	2.48	0.41
1:Ez:75:GLU:OE2	2:Gd:33:SER:OG	2.38	0.41
1:Ez:296:TYR:HE2	1:FK:67:ILE:HG13	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FB:86:TYR:OH	1:FE:55:ALA:O	2.31	0.41
1:FE:275:LYS:HE3	1:FE:276:TYR:CZ	2.55	0.41
1:FF:79:LEU:HD23	1:FF:79:LEU:HA	1.93	0.41
1:FO:77:VAL:HG13	4:Hg:29:ALA:O	2.21	0.41
1:FU:308:ARG:HG3	4:Hi:33:SER:HA	2.02	0.41
1:FY:275:LYS:HE3	1:FY:276:TYR:CZ	2.55	0.41
1:Fd:24:ILE:HG12	1:Fd:131:ASN:ND2	2.35	0.41
1:Ff:49:TRP:CZ3	1:Ff:74:SER:HB3	2.55	0.41
1:Fi:150:ARG:HE	2:HA:63:PRO:HB3	1.85	0.41
1:Fk:8:TYR:CD2	1:Fk:93:GLN:HG3	2.55	0.41
1:Fk:307:THR:O	1:Fk:310:THR:OG1	2.39	0.41
1:Fl:201:MET:HE3	1:Fl:201:MET:HB3	1.91	0.41
1:Fy:113:LEU:HD11	1:Kq:49:TRP:CE3	2.55	0.41
1:GD:96:GLU:O	1:GD:100:THR:HG23	2.20	0.41
1:GF:16:ILE:HD12	1:GF:116:ALA:HB1	2.01	0.41
1:GJ:257:HIS:ND1	1:GJ:318:GLN:HG3	2.35	0.41
1:GM:174:LYS:O	1:GM:212:LYS:NZ	2.53	0.41
1:GP:54:ASN:HD22	1:GP:69:THR:C	2.28	0.41
2:GZ:140:ASN:ND2	2:GZ:144:GLU:HB2	2.34	0.41
2:Gi:165:LYS:HE3	2:Gi:168:GLU:HA	2.02	0.41
2:Gm:120:TYR:CE1	2:Gm:174:LEU:HB2	2.55	0.41
2:Gn:114:THR:O	2:Go:114:THR:HB	2.20	0.41
2:Gp:136:LYS:HD3	2:Gp:181:ARG:HH12	1.85	0.41
3:HY:172:ASN:HB3	3:HY:175:ILE:HD11	2.01	0.41
4:Ho:141:LEU:HD13	4:Ho:149:LEU:HB3	2.02	0.41
4:Hr:25:PRO:HB2	4:Hr:27:HIS:CD2	2.56	0.41
4:Hw:23:LYS:N	4:Hw:67:TYR:OH	2.51	0.41
1:Jj:201:MET:HE3	1:Jj:201:MET:HB3	1.97	0.41
1:Jo:218:ALA:HA	1:Jo:224:ALA:HA	2.02	0.41
1:Jp:78:ARG:HB3	1:Jp:154:ASN:HD22	1.85	0.41
1:Js:286:ASP:HB2	1:Js:294:HIS:HB2	2.02	0.41
1:Jt:41:MET:HE3	1:Jt:82:LEU:HD12	2.02	0.41
1:Jz:16:ILE:HD11	1:Jz:120:LYS:HE3	2.02	0.41
1:KJ:308:ARG:HG3	4:MX:33:SER:HA	2.02	0.41
1:KP:178:ASP:OD1	1:KP:178:ASP:N	2.53	0.41
1:KR:55:ALA:O	1:KV:86:TYR:OH	2.24	0.41
1:KR:82:LEU:HD12	1:KR:82:LEU:HA	1.89	0.41
1:KS:24:ILE:HG12	1:KS:131:ASN:ND2	2.35	0.41
1:KX:229:LYS:NZ	1:PP:236:GLN:HG3	2.36	0.41
1:Kf:3:LEU:HD22	5:Np:198:ASN:C	2.44	0.41
1:Kf:272:LYS:N	1:Kf:303:GLY:O	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kh:91:LEU:HD21	1:Kh:112:LEU:HD13	2.03	0.41
1:Kh:196:GLU:HB3	1:Kh:265:ASN:ND2	2.36	0.41
1:Ki:181:PHE:HA	1:Ki:184:ILE:HD12	2.01	0.41
1:Kj:257:HIS:ND1	1:Kj:318:GLN:HG3	2.35	0.41
1:Kn:13:VAL:HA	1:Kn:16:ILE:HG22	2.02	0.41
1:Ks:26:TYR:O	5:OC:218:TYR:OH	2.30	0.41
1:Kx:8:TYR:CD2	1:Kx:93:GLN:HG3	2.54	0.41
1:LE:54:ASN:HD22	1:LE:69:THR:C	2.28	0.41
1:LF:107:ASP:OD2	1:LF:110:ASN:ND2	2.39	0.41
1:LH:158:LEU:HB3	1:LH:260:LEU:HD21	2.02	0.41
2:LK:21:LEU:HD23	2:LK:21:LEU:HA	1.90	0.41
2:Le:136:LYS:HD3	2:Le:181:ARG:HH12	1.85	0.41
2:Lh:23:LYS:HG3	2:Lh:24:ASN:H	1.86	0.41
2:Lx:75:LEU:HD22	2:Lx:84:LEU:HD13	2.02	0.41
2:MC:137:LEU:HB3	2:MC:145:LEU:HD22	2.02	0.41
2:MJ:181:ARG:NH1	2:MK:94:LEU:HB3	2.29	0.41
4:MV:144:ASN:HD21	4:MV:148:ALA:HB3	1.85	0.41
4:Mc:162:ASN:HB3	4:Mc:184:PHE:CZ	2.55	0.41
4:Mg:25:PRO:HB2	4:Mg:27:HIS:CD2	2.56	0.41
4:Ml:133:SER:HB3	4:Ml:177:TYR:CE1	2.55	0.41
1:OU:201:MET:HE3	1:OU:201:MET:HB3	1.88	0.41
1:Od:84:LEU:HD13	1:Oo:57:PRO:HB2	2.02	0.41
1:Oi:275:LYS:HE3	1:Oi:276:TYR:CZ	2.55	0.41
1:Os:63:GLU:HG2	2:QP:59:ILE:HD11	2.01	0.41
1:Ov:196:GLU:HB3	1:Ov:265:ASN:ND2	2.35	0.41
1:PB:255:LEU:HD23	1:PB:255:LEU:HA	1.90	0.41
1:PJ:39:LEU:O	1:PJ:274:SER:OG	2.25	0.41
1:PN:82:LEU:HD12	1:PN:82:LEU:HA	1.93	0.41
1:PS:201:MET:HE3	1:PS:201:MET:HB3	1.93	0.41
1:PY:212:LYS:HA	1:PY:215:LYS:HE3	2.02	0.41
1:PZ:175:ASP:HA	1:PZ:212:LYS:NZ	2.36	0.41
1:Pb:49:TRP:CE3	1:UT:113:LEU:HD11	2.56	0.41
1:Pe:49:TRP:CH2	1:Pe:74:SER:HB3	2.55	0.41
1:Pf:28:TRP:O	1:Pf:262:TYR:OH	2.30	0.41
1:Ph:80:ASN:ND2	1:Ph:154:ASN:HB2	2.35	0.41
1:Pl:79:LEU:HD11	1:Pl:305:LEU:HB2	2.02	0.41
1:Pl:135:LEU:HD21	1:Pl:255:LEU:HG	2.03	0.41
1:Ps:272:LYS:N	1:Ps:303:GLY:O	2.44	0.41
1:Ps:290:THR:HG22	1:Uf:60:ILE:HG23	2.02	0.41
1:Pv:80:ASN:C	1:Pv:81:TYR:HD1	2.28	0.41
1:Pw:85:GLN:NE2	1:Pw:298:ASP:OD1	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QC:167:THR:HG22	2:QC:168:GLU:N	2.35	0.41
2:QO:58:LYS:H	2:QO:115:ASN:ND2	2.18	0.41
2:QW:124:LYS:HD3	2:QW:146:GLU:HB3	2.01	0.41
2:Qa:165:LYS:HE3	2:Qa:168:GLU:HA	2.02	0.41
2:Qc:100:ASP:HB3	2:Qc:109:THR:HB	2.03	0.41
2:Qh:23:LYS:HG3	2:Qh:24:ASN:N	2.36	0.41
2:Qn:120:TYR:CE1	2:Qn:174:LEU:HB2	2.55	0.41
4:RJ:33:SER:OG	1:Tc:75:GLU:OE2	2.29	0.41
4:RX:161:ILE:HA	4:RX:186:ASN:HA	2.01	0.41
5:Rn:189:LEU:HD11	5:Rn:206:ILE:HG12	2.01	0.41
1:TT:152:LEU:HD21	2:Uv:105:SER:HA	2.01	0.41
1:Tb:113:LEU:HD23	1:Tb:117:GLN:HB2	2.03	0.41
1:Tb:174:LYS:O	1:Tb:212:LYS:NZ	2.53	0.41
1:Te:201:MET:HE3	1:Te:201:MET:HB3	1.87	0.41
1:Tp:41:MET:HE3	1:Tp:83:LYS:HB3	2.03	0.41
1:Tr:101:SER:OG	1:Tr:102:ASP:N	2.53	0.41
1:Tv:165:ILE:HD13	1:Tv:191:LEU:HD23	2.02	0.41
1:Ty:24:ILE:HG12	1:Ty:131:ASN:ND2	2.35	0.41
1:UA:13:VAL:HG11	1:UA:281:PRO:HG2	2.01	0.41
1:UG:282:ASN:OD1	1:UG:283:GLU:N	2.54	0.41
1:UG:306:ALA:O	4:WH:31:LEU:HB2	2.21	0.41
1:UJ:16:ILE:HD12	1:UJ:116:ALA:HB1	2.03	0.41
1:UN:212:LYS:HA	1:UN:215:LYS:HE3	2.03	0.41
1:Ud:201:MET:HE3	1:Ud:201:MET:HB3	1.92	0.41
2:Un:183:ILE:H	2:Up:183:ILE:H	1.67	0.41
2:Uy:167:THR:HB	2:Uy:170:LEU:HB3	2.01	0.41
2:VC:116:ASN:OD1	2:VD:58:LYS:HE2	2.19	0.41
2:VF:120:TYR:CE1	2:VF:174:LEU:HB2	2.55	0.41
2:VT:28:ASP:OD1	2:VT:28:ASP:N	2.53	0.41
2:VW:23:LYS:HG3	2:VW:24:ASN:N	2.36	0.41
3:Vr:140:ASP:OD1	3:Vr:140:ASP:N	2.53	0.41
4:WA:23:LYS:N	4:WA:67:TYR:OH	2.53	0.41
4:WG:162:ASN:HB3	4:WG:184:PHE:CZ	2.55	0.41
4:WH:141:LEU:HD13	4:WH:149:LEU:HB3	2.02	0.41
4:WJ:23:LYS:N	4:WJ:67:TYR:OH	2.52	0.41
6:Xy:366:GLU:O	6:Xy:370:VAL:HG23	2.21	0.41
6:YB:196:SER:OG	6:YB:197:LEU:N	2.53	0.41
6:YB:290:GLU:O	6:YB:294:LEU:HG	2.20	0.41
6:YD:181:GLU:HG3	6:YH:168:LEU:HD11	2.02	0.41
6:YG:260:LYS:HG2	6:YG:264:ASN:HD21	1.86	0.41
5:YU:140:ILE:HG22	5:YU:140:ILE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:YZ:55:ILE:HG13	5:YZ:56:ASN:N	2.36	0.41
5:YZ:59:ILE:HG23	5:ZO:97:HIS:NE2	2.35	0.41
5:Yt:136:LYS:HE3	5:Yt:136:LYS:HB2	1.89	0.41
5:Yx:153:SER:HA	5:Yx:156:LYS:HE2	2.02	0.41
5:ZC:144:ASP:HA	5:ZC:148:LEU:HB2	2.02	0.41
5:Za:57:GLU:HA	5:Za:60:THR:HG22	2.02	0.41
5:Zd:135:ALA:HB1	5:Zd:143:ILE:HG12	2.03	0.41
5:Zk:140:ILE:O	5:Zk:140:ILE:HG22	2.20	0.41
5:aC:57:GLU:HA	5:aC:60:THR:HG22	2.02	0.41
5:aN:143:ILE:HD12	5:aN:143:ILE:HA	1.92	0.41
5:ad:143:ILE:HD12	5:ad:143:ILE:HA	1.92	0.41
5:ay:94:LEU:HD11	5:ay:121:LEU:HG	2.01	0.41
5:bH:143:ILE:HD12	5:bH:143:ILE:HA	1.92	0.41
5:bR:76:LEU:HD23	5:bR:79:GLU:OE2	2.19	0.41
5:bW:74:LYS:HA	5:bW:74:LYS:HD3	1.92	0.41
5:bW:153:SER:HB2	5:bX:133:ALA:HB1	2.01	0.41
5:bY:153:SER:HB2	5:bZ:133:ALA:HB1	2.02	0.41
5:bc:153:SER:HB2	5:bd:133:ALA:HB1	2.01	0.41
5:bo:99:ASN:HB3	5:bo:102:VAL:HG22	2.02	0.41
5:cD:112:ASP:OD1	5:cD:115:GLN:NE2	2.50	0.41
5:cW:57:GLU:HA	5:cW:60:THR:HG22	2.01	0.41
5:ci:99:ASN:O	5:ci:103:LEU:HG	2.21	0.41
5:co:94:LEU:HD11	5:co:121:LEU:HG	2.02	0.41
5:dA:94:LEU:HD11	5:dA:121:LEU:HG	2.01	0.41
5:dC:111:LYS:HZ2	5:dF:74:LYS:HE3	1.85	0.41
5:dE:94:LEU:HD11	5:dE:121:LEU:HG	2.01	0.41
5:dR:76:LEU:HD23	5:dR:79:GLU:OE2	2.20	0.41
5:dc:99:ASN:HB3	5:dc:102:VAL:HG22	2.02	0.41
5:de:153:SER:HB2	5:df:133:ALA:HB1	2.02	0.41
5:du:74:LYS:HA	5:du:74:LYS:HD3	1.91	0.41
5:eY:153:SER:HB2	5:eZ:133:ALA:HB1	2.01	0.41
5:ef:83:ILE:HA	5:ef:114:MET:HE2	2.02	0.41
5:ey:57:GLU:HA	5:ey:60:THR:HG22	2.01	0.41
5:fK:57:GLU:HA	5:fK:60:THR:HG22	2.02	0.41
5:fL:112:ASP:OD1	5:fL:115:GLN:NE2	2.49	0.41
5:fb:112:ASP:OD1	5:fb:115:GLN:NE2	2.49	0.41
5:fp:83:ILE:HA	5:fp:114:MET:HE2	2.02	0.41
5:fw:57:GLU:HA	5:fw:60:THR:HG22	2.02	0.41
5:gD:143:ILE:HD12	5:gD:143:ILE:HA	1.92	0.41
1:AM:261:ILE:HD12	1:AM:312:LEU:HD23	2.03	0.41
1:AP:36:ASP:CG	5:DZ:214:ARG:HH22	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:305:LEU:HD11	4:Cn:32:LEU:HG	2.03	0.41
1:AZ:47:VAL:HG22	1:AZ:76:VAL:HG22	2.02	0.41
1:AZ:65:ASN:ND2	2:Bw:57:ASP:O	2.53	0.41
1:Ab:201:MET:HE3	1:Ab:201:MET:HB3	1.91	0.41
1:Ad:75:GLU:CD	2:CI:33:SER:H	2.29	0.41
1:Ah:41:MET:HE3	1:Ah:83:LYS:HB3	2.03	0.41
1:Ao:24:ILE:HG12	1:Ao:131:ASN:ND2	2.35	0.41
1:BL:54:ASN:HD22	1:BL:69:THR:C	2.28	0.41
1:BL:157:GLY:N	1:BL:160:ASN:OD1	2.45	0.41
1:BP:81:TYR:OH	1:BP:272:LYS:O	2.37	0.41
1:BR:84:LEU:HD13	1:Fq:57:PRO:HB2	2.03	0.41
1:BX:55:ALA:O	1:Ui:86:TYR:OH	2.31	0.41
2:Bl:140:ASN:ND2	2:Bl:144:GLU:HB2	2.36	0.41
2:Bo:23:LYS:N	2:Bo:67:TYR:OH	2.51	0.41
2:CE:181:ARG:HH22	2:CF:94:LEU:HB3	1.85	0.41
4:Cp:73:VAL:HG21	4:Cp:117:ILE:HD13	2.02	0.41
4:Cy:144:ASN:OD1	4:Cy:148:ALA:N	2.54	0.41
1:Er:306:ALA:O	4:HZ:31:LEU:HB2	2.20	0.41
1:Ey:282:ASN:OD1	1:Ey:283:GLU:N	2.53	0.41
1:Ez:165:ILE:HD12	1:Ez:191:LEU:HD23	2.01	0.41
1:FE:41:MET:HE3	1:FE:82:LEU:HD12	2.02	0.41
1:FI:174:LYS:O	1:FI:212:LYS:NZ	2.54	0.41
1:FK:282:ASN:OD1	1:FK:283:GLU:N	2.53	0.41
1:FS:75:GLU:CD	2:Gx:33:SER:H	2.29	0.41
1:FZ:67:ILE:HG13	1:Fd:296:TYR:HE2	1.84	0.41
1:Fa:191:LEU:HD23	1:Fa:191:LEU:HA	1.91	0.41
1:Fc:78:ARG:O	1:Fc:154:ASN:ND2	2.51	0.41
1:Fj:159:LEU:HD12	1:Fj:260:LEU:HD13	2.02	0.41
1:Fq:13:VAL:HG13	1:Fq:119:TYR:CE2	2.56	0.41
1:Fu:34:ILE:HG12	1:Fu:271:PHE:HB3	2.03	0.41
1:GG:84:LEU:HD13	1:Kf:57:PRO:HB2	2.03	0.41
1:GL:82:LEU:HD12	1:GL:82:LEU:HA	1.95	0.41
1:GL:196:GLU:OE1	1:GL:265:ASN:ND2	2.53	0.41
1:GR:163:GLU:HB2	4:Hh:31:LEU:HD12	2.02	0.41
2:Gj:125:LYS:NZ	2:Gj:169:ASP:OD1	2.52	0.41
2:Gl:181:ARG:NH1	2:Gm:94:LEU:HB3	2.35	0.41
2:HG:100:ASP:HB3	2:HG:109:THR:HB	2.02	0.41
2:HN:75:LEU:HD22	2:HN:84:LEU:HD13	2.02	0.41
2:HS:148:VAL:HG21	2:HS:155:VAL:HG12	2.02	0.41
4:HZ:144:ASN:HD21	4:HZ:148:ALA:HB3	1.86	0.41
4:Hj:171:GLN:HB2	4:Hj:177:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Hm:127:TYR:CE1	4:Hm:180:LYS:HB2	2.55	0.41
1:Jj:96:GLU:O	1:Jj:100:THR:HG23	2.21	0.41
1:Jn:132:HIS:HA	1:Jn:254:LEU:HD13	2.02	0.41
1:Jp:152:LEU:HD21	2:LR:105:SER:HA	2.01	0.41
1:Jp:255:LEU:HD23	1:Jp:255:LEU:HA	1.92	0.41
1:Jx:113:LEU:HD23	1:Jx:117:GLN:HB2	2.03	0.41
1:Jz:149:LYS:HZ1	1:KC:59:THR:HG1	1.61	0.41
1:KN:198:SER:OG	1:KN:245:GLU:OE2	2.38	0.41
1:KT:112:LEU:HA	1:KT:112:LEU:HD12	1.83	0.41
1:KU:195:ASP:HB2	4:MY:36:ASN:HB3	2.02	0.41
1:KV:66:THR:HG22	2:QW:52:CYS:SG	2.60	0.41
1:KZ:307:THR:O	1:KZ:310:THR:OG1	2.39	0.41
1:Kd:26:TYR:O	5:Nn:218:TYR:OH	2.38	0.41
1:Kd:195:ASP:H	4:Me:36:ASN:HD22	1.69	0.41
1:Ke:86:TYR:CE1	1:Kn:57:PRO:HA	2.56	0.41
1:Ki:49:TRP:CH2	1:Ki:74:SER:HB3	2.55	0.41
1:Ks:13:VAL:HA	1:Ks:16:ILE:HG22	2.02	0.41
1:Kv:39:LEU:HD21	1:Kv:81:TYR:CE2	2.54	0.41
1:Kw:261:ILE:HD12	1:Kw:312:LEU:HD23	2.01	0.41
1:Ky:101:SER:OG	1:Ky:102:ASP:N	2.54	0.41
1:Kz:239:LYS:HA	1:Kz:242:ASN:OD1	2.20	0.41
2:LN:43:LEU:HD12	2:LN:43:LEU:HA	1.93	0.41
2:LN:167:THR:HG22	2:LN:168:GLU:N	2.35	0.41
2:LS:120:TYR:CE1	2:LS:174:LEU:HB2	2.55	0.41
2:La:181:ARG:NH1	2:Lb:94:LEU:HB3	2.35	0.41
2:MA:134:GLY:HA2	4:Mh:77:ILE:HD13	2.02	0.41
2:MG:133:PRO:HG3	2:MG:161:SER:HA	2.02	0.41
4:MW:35:SER:O	4:MW:41:LYS:HD2	2.21	0.41
4:Mk:120:ILE:HD12	4:Mk:120:ILE:HA	1.95	0.41
5:OQ:189:LEU:HD11	5:OQ:206:ILE:HG12	2.01	0.41
1:OT:41:MET:HE3	1:OT:83:LYS:HB3	2.01	0.41
1:OZ:201:MET:HE3	1:OZ:201:MET:HB3	1.94	0.41
1:Oj:8:TYR:CD2	1:Oj:93:GLN:HG3	2.55	0.41
1:Om:113:LEU:HD23	1:Om:117:GLN:HB2	2.03	0.41
1:On:85:GLN:HB3	1:Ot:60:ILE:HD11	2.01	0.41
1:Op:194:GLY:HA2	2:VA:36:ILE:HG21	2.03	0.41
1:Ou:174:LYS:O	1:Ou:212:LYS:NZ	2.54	0.41
1:Ow:86:TYR:OH	1:Oz:55:ALA:O	2.34	0.41
1:PC:213:LEU:HD23	1:PC:213:LEU:HA	1.93	0.41
1:PJ:85:GLN:HE21	1:Tq:67:ILE:HD13	1.85	0.41
1:Pf:140:SER:HB2	1:Pf:148:GLN:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ph:196:GLU:HB3	1:Ph:265:ASN:HD22	1.85	0.41
1:Pk:96:GLU:O	1:Pk:100:THR:HG23	2.21	0.41
1:Pm:77:VAL:HA	2:Qz:29:SER:O	2.19	0.41
1:Pn:77:VAL:HA	2:Qo:29:SER:O	2.21	0.41
1:Pn:101:SER:OG	1:Pn:102:ASP:N	2.54	0.41
1:Po:77:VAL:HG11	1:Po:305:LEU:HD13	2.02	0.41
1:Ps:194:GLY:HA3	2:QQ:36:ILE:HD12	2.02	0.41
1:Pu:121:LEU:O	1:Pu:125:GLU:HG2	2.21	0.41
1:Pv:317:LYS:HE2	1:Pv:319:SER:HB2	2.01	0.41
2:QE:180:ASN:O	4:RE:186:ASN:ND2	2.53	0.41
4:RE:127:TYR:CE1	4:RE:180:LYS:HB2	2.56	0.41
4:RU:23:LYS:N	4:RU:67:TYR:OH	2.52	0.41
4:RZ:25:PRO:HB2	4:RZ:27:HIS:CD2	2.55	0.41
1:TS:218:ALA:HA	1:TS:224:ALA:HA	2.02	0.41
1:TU:261:ILE:HD12	1:TU:312:LEU:HD23	2.03	0.41
1:TW:286:ASP:HB2	1:TW:294:HIS:HB2	2.02	0.41
1:TZ:199:THR:HG21	1:TZ:265:ASN:HB2	2.03	0.41
1:Ta:66:THR:HG22	2:VH:52:CYS:HB3	2.01	0.41
1:Tb:272:LYS:N	1:Tb:303:GLY:O	2.50	0.41
1:Td:84:LEU:HD13	1:Tg:57:PRO:HB2	2.02	0.41
1:Tf:211:LEU:O	1:Tf:214:VAL:HG22	2.20	0.41
1:Th:181:PHE:CZ	1:Th:234:LEU:HB2	2.55	0.41
1:Tj:78:ARG:O	1:Tj:154:ASN:ND2	2.54	0.41
1:UD:197:PHE:CD2	1:UD:243:ASN:HB2	2.55	0.41
1:UE:49:TRP:CE3	1:UE:74:SER:HB3	2.55	0.41
1:UI:84:LEU:HD22	1:UI:149:LYS:HE3	2.02	0.41
1:UL:79:LEU:HD23	1:UL:79:LEU:HA	1.91	0.41
1:UO:175:ASP:HA	1:UO:212:LYS:NZ	2.36	0.41
1:UR:286:ASP:HB2	1:UR:294:HIS:HB2	2.01	0.41
1:UU:23:PRO:HB2	1:UU:25:MET:HG2	2.03	0.41
1:UV:255:LEU:HD23	1:UV:255:LEU:HA	1.90	0.41
1:UW:16:ILE:HD11	1:UW:120:LYS:HE3	2.03	0.41
1:Ui:96:GLU:O	1:Ui:100:THR:HG23	2.21	0.41
1:Um:142:GLN:O	4:WA:39:ARG:HD2	2.21	0.41
2:Uz:133:PRO:HG3	2:Uz:161:SER:HA	2.02	0.41
2:VG:75:LEU:HD22	2:VG:84:LEU:HD13	2.02	0.41
2:VG:181:ARG:NH1	2:VH:94:LEU:O	2.50	0.41
2:Vg:37:ASP:O	2:Vg:41:GLN:NE2	2.53	0.41
2:Vo:156:ASN:HB3	2:Vo:178:PHE:CZ	2.55	0.41
4:Vs:144:ASN:HD21	4:Vs:148:ALA:HB3	1.86	0.41
4:Vt:127:TYR:CE1	4:Vt:180:LYS:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:WN:144:ASN:OD1	4:WN:148:ALA:N	2.46	0.41
6:Xx:73:TYR:CE2	6:Xx:150:ASN:HB2	2.55	0.41
6:YA:200:LEU:HG	6:YA:256:LEU:HD21	2.02	0.41
6:YA:366:GLU:O	6:YA:370:VAL:HG23	2.21	0.41
6:YB:18:LEU:HD12	6:YB:18:LEU:HA	1.89	0.41
6:YD:181:GLU:HA	6:YH:172:LEU:HD21	2.01	0.41
6:YE:94:GLN:HB2	5:YR:162:ARG:HH21	1.85	0.41
6:YE:299:ILE:O	6:YE:303:THR:HG22	2.20	0.41
5:YL:125:PHE:CE1	5:YL:159:ILE:HD13	2.56	0.41
5:YR:84:ASN:HB3	5:YU:81:GLU:HA	2.02	0.41
5:YR:99:ASN:O	5:YR:103:LEU:HG	2.21	0.41
5:YV:55:ILE:HD11	5:Ym:98:PHE:CD2	2.47	0.41
5:Ya:131:ILE:HD13	5:Ya:140:ILE:HD11	2.01	0.41
5:Yc:63:LEU:HD22	5:ZG:97:HIS:NE2	2.36	0.41
5:Yc:144:ASP:HA	5:Yc:148:LEU:HD22	2.01	0.41
5:Yh:74:LYS:HA	5:Yh:74:LYS:HD3	1.91	0.41
5:Yj:72:ILE:O	5:Yj:76:LEU:HG	2.20	0.41
5:Yr:112:ASP:O	5:Yr:115:GLN:HG3	2.21	0.41
5:Yu:144:ASP:HA	5:Yu:148:LEU:HB2	2.03	0.41
5:ZC:70:GLU:O	5:ZC:74:LYS:HG2	2.20	0.41
5:ZD:112:ASP:O	5:ZD:115:GLN:HG3	2.21	0.41
5:ZG:74:LYS:HA	5:ZG:74:LYS:HD3	1.90	0.41
5:Zq:113:ILE:O	5:Zq:117:GLN:HG2	2.21	0.41
5:Zu:113:ILE:O	5:Zu:117:GLN:HG2	2.20	0.41
5:aH:135:ALA:HB1	5:aH:143:ILE:HG12	2.03	0.41
5:aK:111:LYS:HZ2	5:aN:74:LYS:HE3	1.84	0.41
5:aS:55:ILE:HD13	5:ay:116:ALA:HB1	2.02	0.41
5:ae:153:SER:HB2	5:af:133:ALA:HB1	2.03	0.41
5:au:153:SER:HB2	5:av:133:ALA:HB1	2.02	0.41
5:aw:153:SER:HB2	5:ax:133:ALA:HB1	2.02	0.41
5:bJ:112:ASP:OD1	5:bJ:115:GLN:NE2	2.50	0.41
5:bJ:143:ILE:HD12	5:bJ:143:ILE:HA	1.92	0.41
5:ba:153:SER:HB2	5:bb:133:ALA:HB1	2.01	0.41
5:be:76:LEU:HD21	5:bh:76:LEU:HD22	2.03	0.41
5:bq:153:SER:HB2	5:br:133:ALA:HB1	2.02	0.41
5:bs:153:SER:HB2	5:bt:133:ALA:HB1	2.02	0.41
5:dW:94:LEU:HD11	5:dW:121:LEU:HG	2.02	0.41
5:di:59:ILE:O	5:di:63:LEU:HD23	2.19	0.41
5:dk:63:LEU:HD11	5:eT:136:LYS:HD2	2.02	0.41
5:dm:59:ILE:O	5:dm:63:LEU:HD23	2.19	0.41
5:dw:136:LYS:HE3	5:dw:136:LYS:HB2	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eB:112:ASP:OD1	5:eB:115:GLN:NE2	2.49	0.41
5:eL:136:LYS:HE3	5:eL:136:LYS:HB2	1.76	0.41
5:eO:153:SER:HB2	5:eP:133:ALA:HB1	2.02	0.41
5:eb:74:LYS:HE3	5:ec:111:LYS:HZ1	1.84	0.41
5:ek:153:SER:HB2	5:el:133:ALA:HB1	2.02	0.41
5:es:57:GLU:HA	5:es:60:THR:HG22	2.02	0.41
5:fS:57:GLU:HA	5:fS:60:THR:HG22	2.02	0.41
5:fe:94:LEU:HD11	5:fe:121:LEU:HG	2.01	0.41
5:fg:57:GLU:HA	5:fg:60:THR:HG22	2.02	0.41
1:AA:41:MET:HE3	1:AA:83:LYS:HB3	2.01	0.41
1:AH:31:PRO:HG3	5:DR:218:TYR:CG	2.55	0.41
1:AJ:282:ASN:OD1	1:AJ:283:GLU:N	2.53	0.41
1:AL:152:LEU:HD21	2:Bn:105:SER:HA	2.01	0.41
1:AL:169:VAL:HG22	1:AL:183:LYS:HG3	2.02	0.41
1:AO:286:ASP:HB2	1:AO:294:HIS:HB2	2.03	0.41
1:AR:78:ARG:HH21	2:Br:104:PHE:HE1	1.69	0.41
1:Ae:59:THR:O	2:CD:61:ASN:ND2	2.54	0.41
1:Ah:107:ASP:OD2	1:Ah:110:ASN:ND2	2.28	0.41
1:At:150:ARG:HE	2:CL:63:PRO:HB3	1.85	0.41
1:Au:69:THR:OG1	2:HD:51:VAL:O	2.25	0.41
1:Ax:87:LYS:O	1:UC:69:THR:HA	2.20	0.41
1:BB:166:LYS:HE2	1:BB:166:LYS:HB3	1.90	0.41
1:BG:178:ASP:OD1	1:BG:178:ASP:N	2.53	0.41
1:BV:175:ASP:HA	1:BV:212:LYS:NZ	2.34	0.41
1:Ba:39:LEU:O	1:Ba:274:SER:OG	2.26	0.41
2:Bp:133:PRO:HG3	2:Bp:161:SER:HA	2.03	0.41
2:By:120:TYR:CE1	2:By:174:LEU:HB2	2.56	0.41
2:CH:165:LYS:HE3	2:CH:168:GLU:HA	2.02	0.41
2:CS:181:ARG:HG2	2:CS:182:ALA:H	1.85	0.41
2:CY:165:LYS:HB2	2:CY:171:PHE:CE2	2.56	0.41
2:Cb:181:ARG:NH1	2:Cc:94:LEU:HB3	2.35	0.41
3:Cj:140:ASP:OD1	3:Cj:140:ASP:N	2.53	0.41
4:Cp:171:GLN:HE21	4:Cp:174:ASN:HA	1.86	0.41
4:DE:31:LEU:HD21	1:GB:161:MET:SD	2.61	0.41
1:Ep:67:ILE:HD12	1:Je:296:TYR:HE2	1.86	0.41
1:Eu:13:VAL:HG11	1:Eu:281:PRO:HG2	2.01	0.41
1:Eu:31:PRO:HG3	5:IE:218:TYR:CG	2.55	0.41
1:FM:211:LEU:O	1:FM:214:VAL:HG22	2.21	0.41
1:FV:49:TRP:CZ3	1:FV:74:SER:HB3	2.56	0.41
1:FV:85:GLN:HE22	1:FX:289:SER:HB2	1.86	0.41
1:FV:213:LEU:HD23	1:FV:213:LEU:HA	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fd:39:LEU:O	1:Fd:274:SER:OG	2.34	0.41
1:Fd:277:MET:HA	1:Fd:300:VAL:HB	2.02	0.41
1:Ff:24:ILE:HG12	1:Ff:131:ASN:ND2	2.35	0.41
1:Fh:49:TRP:CH2	1:Fh:74:SER:HB3	2.56	0.41
1:Fj:69:THR:HA	1:Kb:87:LYS:O	2.20	0.41
1:Fl:272:LYS:HE2	1:Fl:272:LYS:HB3	1.96	0.41
1:Fn:96:GLU:O	1:Fn:100:THR:HG23	2.20	0.41
1:Fq:91:LEU:HD21	1:Fq:112:LEU:HD13	2.02	0.41
1:Ft:196:GLU:HB3	1:Ft:265:ASN:HD22	1.86	0.41
1:Fu:101:SER:OG	1:Fu:102:ASP:N	2.52	0.41
1:Fu:212:LYS:HA	1:Fu:215:LYS:HE3	2.02	0.41
1:Fv:296:TYR:CE2	1:Fw:67:ILE:HG13	2.54	0.41
1:Fw:239:LYS:HA	1:Fw:242:ASN:OD1	2.21	0.41
1:GJ:77:VAL:HA	2:HK:29:SER:O	2.21	0.41
1:GJ:191:LEU:HD23	1:GJ:191:LEU:HA	1.94	0.41
1:GS:191:LEU:HD23	1:GS:191:LEU:HA	1.92	0.41
2:Gg:153:LYS:HA	2:Gg:181:ARG:HH21	1.84	0.41
2:Gn:75:LEU:HD22	2:Gn:84:LEU:HD13	2.02	0.41
2:Gz:133:PRO:HD3	2:Gz:162:LYS:HG2	2.02	0.41
2:HA:180:ASN:O	2:HB:180:ASN:ND2	2.53	0.41
2:HE:181:ARG:HH12	2:HF:94:LEU:HB3	1.86	0.41
2:HM:123:LEU:HD21	2:HM:131:VAL:HG21	2.02	0.41
2:HP:181:ARG:HG2	2:HP:182:ALA:H	1.85	0.41
2:HR:133:PRO:HG3	2:HR:161:SER:HA	2.02	0.41
2:HV:140:ASN:HD21	2:HV:144:GLU:HB2	1.84	0.41
4:Hj:141:LEU:HD11	4:Hj:165:ALA:HB2	2.01	0.41
5:IK:193:ASN:ND2	5:fx:91:LYS:O	2.54	0.41
1:Jf:255:LEU:HD23	1:Jf:255:LEU:HA	1.89	0.41
1:Jl:31:PRO:HG3	5:Mv:218:TYR:CG	2.55	0.41
1:Jo:75:GLU:OE2	2:LS:33:SER:OG	2.38	0.41
1:Jr:307:THR:O	1:Jr:310:THR:OG1	2.25	0.41
1:Jt:49:TRP:CZ3	1:Jt:74:SER:HB3	2.56	0.41
1:Jx:286:ASP:HB2	1:Jx:294:HIS:HB2	2.02	0.41
1:KC:196:GLU:HB3	1:KC:265:ASN:HD22	1.86	0.41
1:KI:181:PHE:CZ	1:KI:234:LEU:HB2	2.55	0.41
1:KK:49:TRP:CZ3	1:KK:74:SER:HB3	2.56	0.41
1:KN:101:SER:OG	1:KN:102:ASP:N	2.53	0.41
1:KQ:112:LEU:HD12	1:KQ:112:LEU:HA	1.83	0.41
1:Kf:16:ILE:HD12	1:Kf:116:ALA:HB1	2.02	0.41
1:Kj:34:ILE:HG12	1:Kj:271:PHE:HB3	2.03	0.41
1:Kk:175:ASP:HA	1:Kk:212:LYS:NZ	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kl:107:ASP:OD2	1:Kl:110:ASN:ND2	2.34	0.41
1:Ko:66:THR:HG22	2:Lu:52:CYS:HB3	2.01	0.41
1:Ko:175:ASP:HA	1:Ko:212:LYS:NZ	2.36	0.41
1:Kv:96:GLU:O	1:Kv:100:THR:HG23	2.21	0.41
1:Kw:135:LEU:HD21	1:Kw:255:LEU:HG	2.03	0.41
1:Kw:178:ASP:OD1	1:Kw:179:LYS:N	2.53	0.41
1:LC:308:ARG:O	2:Lc:34:ASN:ND2	2.52	0.41
1:LF:57:PRO:HA	1:Pr:86:TYR:HE1	1.84	0.41
1:LF:121:LEU:O	1:LF:125:GLU:HG2	2.21	0.41
2:Lk:138:ASN:HD22	2:Lk:153:LYS:HE2	1.84	0.41
2:Lo:137:LEU:HD11	2:Lo:159:ALA:HB2	2.02	0.41
2:Ls:167:THR:HG22	2:Ls:168:GLU:N	2.36	0.41
3:MN:140:ASP:OD1	3:MN:140:ASP:N	2.53	0.41
4:MT:73:VAL:HG21	4:MT:117:ILE:HD13	2.02	0.41
4:MU:142:ILE:HD11	4:MU:152:VAL:HG23	2.01	0.41
5:My:189:LEU:HD11	5:My:206:ILE:HG12	2.01	0.41
1:Oc:121:LEU:HB3	1:Of:51:ALA:HB2	2.02	0.41
1:Oc:260:LEU:HD23	1:Oc:260:LEU:HA	1.95	0.41
1:Od:296:TYR:HE2	1:Oo:67:ILE:HG13	1.85	0.41
1:Of:133:PHE:O	1:Of:137:GLY:N	2.43	0.41
1:Ok:78:ARG:HH21	2:QK:104:PHE:HE1	1.69	0.41
1:On:217:TYR:CD1	1:On:233:VAL:HG21	2.56	0.41
1:Op:49:TRP:CE3	1:Tb:113:LEU:HD11	2.56	0.41
1:Ot:41:MET:HE2	1:Ot:82:LEU:HD12	2.03	0.41
1:PF:133:PHE:O	1:PF:137:GLY:N	2.45	0.41
1:PF:256:LYS:O	1:PF:258:LYS:HG2	2.20	0.41
1:PH:135:LEU:HD21	1:PH:255:LEU:HG	2.03	0.41
1:PJ:195:ASP:HB2	4:RN:36:ASN:HB3	2.02	0.41
1:PM:78:ARG:O	1:PM:154:ASN:ND2	2.46	0.41
1:PO:49:TRP:CZ3	1:PO:74:SER:HB3	2.56	0.41
1:PV:62:ASN:ND2	2:Qo:102:ASP:HB2	2.36	0.41
1:PW:178:ASP:OD1	1:PW:179:LYS:N	2.53	0.41
1:Pb:41:MET:HE3	1:Pb:82:LEU:HD12	2.03	0.41
1:Pc:113:LEU:HD11	1:UU:49:TRP:CE3	2.55	0.41
1:Pd:66:THR:HG22	2:Qj:52:CYS:HB3	2.01	0.41
1:Pr:13:VAL:HA	1:Pr:16:ILE:HG22	2.02	0.41
1:Pt:16:ILE:HD11	1:Pt:120:LYS:HE3	2.03	0.41
1:Px:80:ASN:ND2	1:Px:154:ASN:HB2	2.35	0.41
1:Px:89:ARG:NH2	1:Px:112:LEU:HD21	2.35	0.41
1:Px:257:HIS:ND1	1:Px:318:GLN:HG3	2.36	0.41
2:Pz:166:LEU:HD11	2:Pz:172:ILE:HD13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QG:140:ASN:HD21	2:QG:144:GLU:HB2	1.83	0.41
2:QJ:120:TYR:CE1	2:QJ:174:LEU:HB2	2.56	0.41
2:QO:167:THR:HG22	2:QO:168:GLU:N	2.34	0.41
2:Qn:133:PRO:HG3	2:Qn:161:SER:HA	2.02	0.41
4:RI:137:VAL:HG22	4:RI:167:THR:HA	2.02	0.41
4:RN:171:GLN:HB2	4:RN:177:TYR:CE1	2.55	0.41
4:RX:25:PRO:HB2	4:RX:27:HIS:CD2	2.56	0.41
5:TF:189:LEU:HD11	5:TF:206:ILE:HG12	2.01	0.41
1:TR:282:ASN:OD1	1:TR:283:GLU:N	2.53	0.41
1:TT:218:ALA:HA	1:TT:224:ALA:HA	2.03	0.41
1:Ta:43:TYR:HE2	1:Ta:45:LYS:HE2	1.86	0.41
1:Tj:174:LYS:O	1:Tj:212:LYS:NZ	2.54	0.41
1:Tu:239:LYS:HA	1:Tu:242:ASN:OD1	2.20	0.41
1:UI:113:LEU:HD11	1:UR:49:TRP:CZ3	2.55	0.41
1:UO:201:MET:HE3	1:UO:201:MET:HB3	1.90	0.41
1:UO:317:LYS:HZ3	1:UO:319:SER:HB2	1.86	0.41
1:US:96:GLU:O	1:US:100:THR:HG23	2.20	0.41
1:UV:157:GLY:N	1:UV:160:ASN:OD1	2.50	0.41
1:UV:165:ILE:HD13	1:UV:191:LEU:HD23	2.02	0.41
1:UV:196:GLU:HB3	1:UV:265:ASN:HD22	1.84	0.41
1:UW:253:ASN:OD1	1:UW:253:ASN:N	2.54	0.41
1:UZ:60:ILE:HG23	1:Ub:290:THR:HG22	2.01	0.41
1:Uf:26:TYR:O	5:Xp:218:TYR:OH	2.30	0.41
1:Ul:158:LEU:HB3	1:Ul:260:LEU:HD21	2.02	0.41
2:VK:69:TYR:CE2	2:VK:70:LYS:HG2	2.55	0.41
2:Vc:133:PRO:HG3	2:Vc:161:SER:HA	2.02	0.41
2:Vh:133:PRO:HG3	2:Vh:161:SER:HA	2.01	0.41
4:WC:171:GLN:HB2	4:WC:177:TYR:CE1	2.55	0.41
4:WR:142:ILE:HD11	4:WR:152:VAL:HG23	2.02	0.41
6:YD:257:ALA:HA	6:YD:260:LYS:HG2	2.02	0.41
6:YD:270:TYR:OH	6:YH:198:VAL:HB	2.21	0.41
6:YI:366:GLU:O	6:YI:370:VAL:HG23	2.21	0.41
5:YO:86:ILE:HD13	5:YO:118:ARG:HE	1.85	0.41
5:YP:53:LEU:HA	5:YP:57:GLU:HB2	2.02	0.41
5:YP:99:ASN:O	5:YP:103:LEU:HG	2.20	0.41
5:YR:80:ALA:O	5:YR:84:ASN:ND2	2.53	0.41
5:YT:119:ARG:HG2	5:YT:140:ILE:HG22	2.02	0.41
5:YY:135:ALA:HB1	5:YY:143:ILE:HG12	2.02	0.41
5:Ye:125:PHE:HB3	5:Ye:158:ASN:HB3	2.02	0.41
5:Yp:112:ASP:OD1	5:Yp:115:GLN:NE2	2.52	0.41
5:ZF:128:ILE:HA	5:ZF:131:ILE:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZP:75:GLN:NE2	5:ZP:79:GLU:OE1	2.53	0.41
5:ZV:76:LEU:HD23	5:ZV:79:GLU:OE2	2.20	0.41
5:ZW:74:LYS:HA	5:ZW:74:LYS:HD3	1.91	0.41
5:ZY:109:THR:O	5:ZY:113:ILE:HG13	2.21	0.41
5:ZY:148:LEU:O	5:ZY:152:VAL:HG13	2.21	0.41
5:aI:94:LEU:HD11	5:aI:121:LEU:HG	2.02	0.41
5:aI:99:ASN:HB3	5:aI:102:VAL:HG22	2.03	0.41
5:aM:57:GLU:HA	5:aM:60:THR:HG22	2.02	0.41
5:ao:86:ILE:HD11	5:ao:118:ARG:HE	1.84	0.41
5:bT:135:ALA:HB1	5:bT:143:ILE:HG12	2.02	0.41
5:bp:143:ILE:HD12	5:bp:143:ILE:HA	1.92	0.41
5:cD:135:ALA:HB1	5:cD:143:ILE:HG12	2.02	0.41
5:cQ:86:ILE:HD11	5:cQ:118:ARG:HE	1.86	0.41
5:cw:57:GLU:HA	5:cw:60:THR:HG22	2.01	0.41
5:dI:94:LEU:HD11	5:dI:121:LEU:HG	2.01	0.41
5:dJ:76:LEU:HD23	5:dJ:79:GLU:OE2	2.19	0.41
5:dM:76:LEU:HD21	5:dP:76:LEU:HD22	2.03	0.41
5:dm:55:ILE:HG23	5:eU:147:ILE:HB	2.02	0.41
5:dt:146:GLU:CD	5:ea:58:ARG:HH21	2.28	0.41
5:dv:143:ILE:HD12	5:dv:143:ILE:HA	1.92	0.41
5:eA:54:SER:HB3	5:eA:56:ASN:OD1	2.20	0.41
5:eC:143:ILE:HD12	5:eC:143:ILE:HG23	1.80	0.41
5:eE:148:LEU:O	5:eE:152:VAL:HG13	2.20	0.41
5:eH:146:GLU:CD	5:eo:58:ARG:HH21	2.28	0.41
5:ei:113:ILE:O	5:ei:117:GLN:HG2	2.20	0.41
5:fI:153:SER:HB2	5:fJ:133:ALA:HB1	2.03	0.41
5:fJ:83:ILE:HA	5:fJ:114:MET:HE2	2.03	0.41
1:AJ:132:HIS:HA	1:AJ:254:LEU:HD13	2.02	0.41
1:AN:307:THR:O	1:AN:310:THR:OG1	2.25	0.41
1:AS:41:MET:HE2	1:AS:83:LYS:HB3	2.02	0.41
1:AV:296:TYR:HE2	1:AY:67:ILE:HG13	1.85	0.41
1:Ac:178:ASP:OD1	1:Ac:179:LYS:N	2.52	0.41
1:Ae:96:GLU:O	1:Ae:100:THR:HG23	2.20	0.41
1:Au:107:ASP:OD2	1:Au:110:ASN:ND2	2.31	0.41
1:Av:143:LYS:HE2	4:Cz:37:GLU:HG2	2.02	0.41
1:Az:306:ALA:O	4:DA:31:LEU:HB2	2.21	0.41
1:BB:57:PRO:HB2	1:UZ:84:LEU:HD13	2.03	0.41
1:BB:91:LEU:HD21	1:BB:112:LEU:HD13	2.02	0.41
1:BC:57:PRO:HG2	1:BF:84:LEU:HD13	2.02	0.41
1:BG:175:ASP:HA	1:BG:212:LYS:NZ	2.36	0.41
1:BI:49:TRP:CE3	1:GA:113:LEU:HD11	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:28:TRP:CZ3	1:BK:135:LEU:HB2	2.56	0.41
1:BN:166:LYS:HE2	1:BN:313:GLN:OE1	2.20	0.41
1:BN:317:LYS:HE2	1:BN:319:SER:HB2	2.03	0.41
1:BO:96:GLU:O	1:BO:100:THR:HG23	2.20	0.41
1:BO:158:LEU:HB3	1:BO:260:LEU:HD21	2.02	0.41
1:BW:13:VAL:HA	1:BW:16:ILE:HG22	2.02	0.41
1:BX:39:LEU:HD21	1:BX:81:TYR:CE2	2.56	0.41
1:BY:84:LEU:HD13	1:Uj:57:PRO:HB2	2.02	0.41
1:Ba:41:MET:HE2	1:Ba:83:LYS:H	1.86	0.41
1:Bb:57:PRO:HB2	1:GN:84:LEU:HD13	2.02	0.41
2:Bg:23:LYS:N	2:Bg:67:TYR:OH	2.51	0.41
2:Bv:165:LYS:HE3	2:Bv:168:GLU:HA	2.02	0.41
2:CL:28:ASP:N	2:CL:28:ASP:OD1	2.53	0.41
2:Cd:148:VAL:HG21	2:Cd:155:VAL:HG12	2.01	0.41
2:Cg:165:LYS:HB2	2:Cg:171:PHE:CE2	2.55	0.41
4:Ck:144:ASN:HD21	4:Ck:148:ALA:HB3	1.86	0.41
4:Cq:142:ILE:HD11	4:Cq:152:VAL:HG23	2.01	0.41
4:DE:161:ILE:HA	4:DE:186:ASN:HA	2.01	0.41
1:FC:152:LEU:HD21	4:Hc:112:SER:HA	2.02	0.41
1:Fa:161:MET:HA	1:Fa:162:PRO:HD3	1.92	0.41
1:Fc:165:ILE:HD13	1:Fc:191:LEU:HD23	2.02	0.41
1:Fg:80:ASN:HD22	1:Fg:152:LEU:HB3	1.85	0.41
1:Fh:239:LYS:HA	1:Fh:242:ASN:OD1	2.21	0.41
1:Fh:286:ASP:HB2	1:Fh:294:HIS:HB2	2.01	0.41
1:Fk:49:TRP:CZ3	1:Fk:74:SER:HB3	2.56	0.41
1:Fk:197:PHE:CD2	1:Fk:243:ASN:HB2	2.55	0.41
1:Fl:49:TRP:CE3	1:Fl:74:SER:HB3	2.55	0.41
1:Fn:97:LYS:HE2	1:Fn:97:LYS:HB3	1.94	0.41
1:Fs:178:ASP:OD1	1:Fs:179:LYS:N	2.53	0.41
1:Fu:277:MET:HA	1:Fu:300:VAL:HB	2.03	0.41
1:Fx:178:ASP:OD1	1:Fx:178:ASP:N	2.53	0.41
1:GA:175:ASP:HA	1:GA:212:LYS:NZ	2.35	0.41
1:GK:31:PRO:HG3	5:JU:218:TYR:CD1	2.56	0.41
1:GL:216:PRO:HA	1:GL:229:LYS:HA	2.03	0.41
1:GO:194:GLY:HA3	2:Gm:36:ILE:HD12	2.02	0.41
1:GP:41:MET:HE2	1:GP:83:LYS:H	1.86	0.41
2:Gj:120:TYR:CE1	2:Gj:174:LEU:HB2	2.56	0.41
2:HJ:133:PRO:HG3	2:HJ:161:SER:HA	2.02	0.41
2:HR:32:LEU:O	1:Kf:308:ARG:NE	2.52	0.41
4:HZ:133:SER:HB3	4:HZ:177:TYR:CE1	2.56	0.41
4:Ho:65:LEU:HD23	4:Ho:65:LEU:HA	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Hp:113:LYS:HE3	4:Hp:113:LYS:HB2	1.94	0.41
1:Ji:196:GLU:HB3	1:Ji:265:ASN:ND2	2.36	0.41
1:Jl:157:GLY:N	1:Jl:160:ASN:OD1	2.46	0.41
1:Jp:169:VAL:HG22	1:Jp:183:LYS:HG3	2.02	0.41
1:Jp:174:LYS:O	1:Jp:212:LYS:NZ	2.53	0.41
1:Jp:218:ALA:HA	1:Jp:224:ALA:HA	2.03	0.41
1:Jt:275:LYS:HE3	1:Jt:276:TYR:CZ	2.55	0.41
1:Ju:307:THR:HG22	2:LN:32:LEU:HB2	2.03	0.41
1:Jy:16:ILE:HD11	1:Jy:120:LYS:HE3	2.02	0.41
1:KK:213:LEU:HD23	1:KK:213:LEU:HA	1.88	0.41
1:KP:191:LEU:HD23	1:KP:191:LEU:HA	1.91	0.41
1:KQ:31:PRO:HG3	5:Na:218:TYR:CD1	2.55	0.41
1:KQ:239:LYS:HA	1:KQ:242:ASN:OD1	2.20	0.41
1:KQ:256:LYS:O	1:KQ:258:LYS:HG2	2.20	0.41
1:KR:164:GLN:HE22	1:KR:308:ARG:HA	1.86	0.41
1:KS:135:LEU:HD21	1:KS:255:LEU:HG	2.03	0.41
1:KS:277:MET:HA	1:KS:300:VAL:HB	2.02	0.41
1:KU:24:ILE:HG12	1:KU:131:ASN:ND2	2.35	0.41
1:KZ:289:SER:HB2	1:Kb:85:GLN:HE22	1.86	0.41
1:Kc:152:LEU:HD21	2:Lt:105:SER:HA	2.01	0.41
1:Kf:24:ILE:HG12	1:Kf:131:ASN:ND2	2.35	0.41
1:Kg:62:ASN:ND2	2:Lz:102:ASP:HB2	2.36	0.41
1:Kk:296:TYR:CE2	1:Kl:67:ILE:HG13	2.54	0.41
1:Km:49:TRP:CE3	1:Pe:113:LEU:HD11	2.56	0.41
1:Kr:161:MET:SD	4:Mf:31:LEU:HD21	2.61	0.41
1:Kv:84:LEU:HD13	1:PU:57:PRO:HB2	2.03	0.41
1:LA:216:PRO:HA	1:LA:229:LYS:HA	2.03	0.41
1:LC:13:VAL:HA	1:LC:16:ILE:HG22	2.02	0.41
1:LD:290:THR:HG22	1:Pq:60:ILE:HG23	2.02	0.41
1:LE:306:ALA:O	2:MF:31:LEU:HD22	2.21	0.41
1:LI:257:HIS:ND1	1:LI:318:GLN:HG3	2.36	0.41
2:LJ:36:ILE:HD12	2:LJ:36:ILE:HA	1.94	0.41
2:LO:153:LYS:HG3	2:LO:154:SER:H	1.86	0.41
2:Li:181:ARG:HH22	2:Lj:94:LEU:HB3	1.85	0.41
2:Lj:75:LEU:HD22	2:Lj:84:LEU:HD13	2.02	0.41
2:MD:133:PRO:HG3	2:MD:161:SER:HA	2.01	0.41
2:MI:133:PRO:HG3	2:MI:161:SER:HA	2.03	0.41
2:MK:23:LYS:N	2:MK:67:TYR:OH	2.52	0.41
4:MP:127:TYR:CE1	4:MP:180:LYS:HB2	2.56	0.41
4:MW:107:ASP:OD1	4:MW:108:ILE:N	2.54	0.41
4:Md:159:ALA:HB3	4:Md:187:LYS:HD2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Mg:37:GLU:O	4:Mg:41:LYS:HD2	2.20	0.41
1:OT:132:HIS:HA	1:OT:254:LEU:HD13	2.02	0.41
1:OU:290:THR:HG22	1:TJ:60:ILE:HG23	2.03	0.41
1:Od:13:VAL:HG11	1:Od:281:PRO:HG2	2.01	0.41
1:Ol:41:MET:HE2	1:Ol:83:LYS:HB3	2.02	0.41
1:Or:85:GLN:HB3	1:Os:60:ILE:HD11	2.01	0.41
1:Or:174:LYS:HE3	1:Or:318:GLN:HG3	2.03	0.41
1:Ot:16:ILE:HD11	1:Ot:120:LYS:HE3	2.02	0.41
1:Ow:55:ALA:O	1:PI:86:TYR:OH	2.33	0.41
1:Ox:49:TRP:CE3	1:Ox:74:SER:HB3	2.55	0.41
1:Oy:256:LYS:HE3	1:Oy:256:LYS:HB2	1.91	0.41
1:PF:31:PRO:HG3	5:SP:218:TYR:CD1	2.55	0.41
1:PF:239:LYS:HA	1:PF:242:ASN:OD1	2.20	0.41
1:PK:19:GLU:HA	1:PK:120:LYS:HD3	2.01	0.41
1:PN:28:TRP:O	1:PN:262:TYR:OH	2.27	0.41
1:PO:143:LYS:HE2	4:RS:37:GLU:HG2	2.02	0.41
1:PT:113:LEU:HD11	1:Pc:49:TRP:CZ3	2.55	0.41
1:PT:282:ASN:HB3	1:PT:296:TYR:HB2	2.01	0.41
1:PU:124:SER:O	1:PU:128:LYS:HG3	2.20	0.41
1:PV:96:GLU:O	1:PV:100:THR:HG23	2.21	0.41
1:PW:91:LEU:HD21	1:PW:112:LEU:HD13	2.03	0.41
1:PZ:201:MET:HE3	1:PZ:201:MET:HB3	1.90	0.41
1:Pc:13:VAL:HA	1:Pc:16:ILE:HG22	2.02	0.41
1:Pc:107:ASP:OD2	1:Pc:110:ASN:ND2	2.42	0.41
1:Pd:67:ILE:HG13	1:Pg:296:TYR:HE2	1.84	0.41
1:Ph:16:ILE:HD11	1:Ph:120:LYS:HE3	2.02	0.41
1:Ph:158:LEU:HB3	1:Ph:260:LEU:HD21	2.02	0.41
1:Po:107:ASP:OD2	1:Po:110:ASN:ND2	2.34	0.41
1:Pp:216:PRO:HA	1:Pp:229:LYS:HA	2.03	0.41
1:Pt:54:ASN:HD22	1:Pt:69:THR:C	2.28	0.41
2:Py:183:ILE:H	2:QA:183:ILE:H	1.67	0.41
2:QD:153:LYS:HG3	2:QD:154:SER:H	1.86	0.41
2:QO:133:PRO:HG3	2:QO:161:SER:HA	2.03	0.41
2:QR:114:THR:O	2:QS:114:THR:HB	2.20	0.41
2:Qi:181:ARG:HH12	2:Qj:94:LEU:HB3	1.86	0.41
2:Qs:114:THR:O	2:Qt:114:THR:HB	2.21	0.41
2:RA:23:LYS:NZ	2:RA:100:ASP:OD1	2.51	0.41
4:RQ:127:TYR:CE1	4:RQ:180:LYS:HB2	2.55	0.41
4:RQ:133:SER:HB3	4:RQ:177:TYR:CE1	2.56	0.41
1:TN:216:PRO:HB2	1:TN:224:ALA:HB1	2.01	0.41
1:TT:65:ASN:ND2	4:Vy:57:ASP:O	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TX:36:ASP:CG	5:Wh:214:ARG:HH22	2.28	0.41
1:Tg:174:LYS:HE3	1:Tg:318:GLN:HG3	2.03	0.41
1:Tj:17:ILE:HD12	1:Tj:17:ILE:HA	1.96	0.41
1:Tk:196:GLU:HB3	1:Tk:265:ASN:ND2	2.35	0.41
1:Tm:59:THR:O	2:VL:61:ASN:ND2	2.54	0.41
1:Tq:52:PHE:CE1	1:Tq:71:GLY:HA3	2.56	0.41
1:Tu:31:PRO:HG3	5:XE:218:TYR:CD1	2.55	0.41
1:Tu:112:LEU:HD12	1:Tu:112:LEU:HA	1.83	0.41
1:Tw:24:ILE:HG12	1:Tw:131:ASN:ND2	2.35	0.41
1:Tw:135:LEU:HD21	1:Tw:255:LEU:HG	2.03	0.41
1:Tz:80:ASN:HD22	1:Tz:152:LEU:HB3	1.85	0.41
1:Tz:239:LYS:NZ	1:Tz:245:GLU:O	2.52	0.41
1:UD:152:LEU:HD21	2:VV:105:SER:HA	2.01	0.41
1:UG:296:TYR:HE2	1:UH:67:ILE:HG13	1.85	0.41
1:UK:62:ASN:ND2	2:Vd:102:ASP:HB2	2.36	0.41
1:UK:67:ILE:HG13	1:UN:296:TYR:HE2	1.86	0.41
1:UK:157:GLY:N	1:UK:160:ASN:OD1	2.52	0.41
1:UL:91:LEU:HD21	1:UL:112:LEU:HD13	2.03	0.41
1:US:66:THR:HG22	2:VY:52:CYS:HB3	2.01	0.41
1:UV:166:LYS:HE2	1:UV:313:GLN:OE1	2.20	0.41
1:UV:317:LYS:HE2	1:UV:319:SER:HB2	2.03	0.41
1:Ua:135:LEU:HD21	1:Ua:255:LEU:HG	2.03	0.41
1:Ub:196:GLU:HB3	1:Ub:265:ASN:HD22	1.85	0.41
1:Uk:178:ASP:N	1:Uk:178:ASP:OD1	2.52	0.41
2:Uu:166:LEU:HB2	2:Uu:170:LEU:HD23	2.02	0.41
2:VG:30:GLY:O	2:VG:31:LEU:HD23	2.20	0.41
2:VG:120:TYR:CE1	2:VG:174:LEU:HB2	2.56	0.41
2:VZ:114:THR:O	2:Va:114:THR:HB	2.20	0.41
2:Vb:75:LEU:HD22	2:Vb:84:LEU:HD13	2.02	0.41
2:Vc:165:LYS:HB2	2:Vc:171:PHE:CE2	2.55	0.41
2:Vd:180:ASN:O	2:Ve:180:ASN:ND2	2.48	0.41
4:WF:133:SER:HB3	4:WF:177:TYR:CE1	2.56	0.41
6:Xx:198:VAL:N	6:YI:270:TYR:OH	2.53	0.41
6:YB:366:GLU:O	6:YB:370:VAL:HG23	2.21	0.41
6:YE:168:LEU:HD11	6:YF:181:GLU:HG3	2.02	0.41
5:YP:79:GLU:CD	5:YP:82:ARG:HH21	2.29	0.41
5:YQ:99:ASN:O	5:YQ:103:LEU:HG	2.20	0.41
5:YX:118:ARG:O	5:YX:122:VAL:HG23	2.20	0.41
5:YY:126:VAL:HA	5:YY:127:PRO:HD3	1.96	0.41
5:Ya:140:ILE:HG22	5:Ya:140:ILE:O	2.21	0.41
5:Yb:135:ALA:HB1	5:Yb:143:ILE:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yb:143:ILE:HG13	5:Yb:147:ILE:HG21	2.03	0.41
5:Yd:134:ILE:O	5:Ye:150:GLN:NE2	2.54	0.41
5:Yn:75:GLN:NE2	5:Yn:79:GLU:OE1	2.51	0.41
5:Yn:135:ALA:HB1	5:Yn:143:ILE:HG12	2.02	0.41
5:ZK:133:ALA:HB2	5:ZL:157:VAL:HG21	2.02	0.41
5:ZY:140:ILE:O	5:ZY:140:ILE:HG22	2.21	0.41
5:Za:94:LEU:HD13	5:Za:120:GLU:OE1	2.21	0.41
5:aK:99:ASN:HB3	5:aK:102:VAL:HG22	2.03	0.41
5:ak:62:GLU:OE1	5:bQ:97:HIS:NE2	2.54	0.41
5:au:99:ASN:HB3	5:au:102:VAL:HG22	2.03	0.41
5:bE:99:ASN:HB3	5:bE:102:VAL:HG22	2.02	0.41
5:bQ:113:ILE:O	5:bQ:117:GLN:HG2	2.20	0.41
5:bX:135:ALA:HB1	5:bX:143:ILE:HG12	2.03	0.41
5:bv:135:ALA:HB1	5:bv:143:ILE:HG12	2.03	0.41
5:cK:86:ILE:HD11	5:cK:118:ARG:HE	1.86	0.41
5:cM:76:LEU:HD21	5:cP:76:LEU:HD22	2.03	0.41
5:cO:86:ILE:HD11	5:cO:118:ARG:HE	1.84	0.41
5:cg:153:SER:HB2	5:ch:133:ALA:HB1	2.01	0.41
5:co:55:ILE:HD13	5:dU:116:ALA:HB1	2.03	0.41
5:cq:99:ASN:HB3	5:cq:102:VAL:HG22	2.03	0.41
5:cy:99:ASN:O	5:cy:103:LEU:HG	2.21	0.41
5:dE:57:GLU:HA	5:dE:60:THR:HG22	2.01	0.41
5:dL:135:ALA:HB1	5:dL:143:ILE:HG12	2.03	0.41
5:dN:143:ILE:HD12	5:dN:143:ILE:HA	1.91	0.41
5:dR:135:ALA:HB1	5:dR:143:ILE:HG12	2.03	0.41
5:du:131:ILE:HD13	5:du:140:ILE:HD11	2.03	0.41
5:dw:131:ILE:HD13	5:dw:140:ILE:HD11	2.03	0.41
5:eI:148:LEU:O	5:eI:152:VAL:HG13	2.21	0.41
5:eO:136:LYS:HE3	5:eO:136:LYS:HB2	1.96	0.41
5:ek:74:LYS:HA	5:ek:74:LYS:HD3	1.91	0.41
5:em:118:ARG:O	5:em:122:VAL:HG23	2.21	0.41
5:fS:99:ASN:HB3	5:fS:102:VAL:HG22	2.03	0.41
5:fd:135:ALA:HB1	5:fd:143:ILE:HG12	2.03	0.41
5:fj:135:ALA:HB1	5:fj:143:ILE:HG12	2.03	0.41
5:fx:143:ILE:HD12	5:fx:143:ILE:HA	1.92	0.41
1:AF:13:VAL:HG11	1:AF:281:PRO:HG2	2.01	0.41
1:AT:113:LEU:HD11	1:Te:49:TRP:CE3	2.56	0.41
1:Af:169:VAL:HG22	1:Af:183:LYS:HG3	2.02	0.41
1:Ar:80:ASN:HD22	1:Ar:152:LEU:HB3	1.85	0.41
1:Ar:261:ILE:HD12	1:Ar:312:LEU:HD23	2.03	0.41
1:As:175:ASP:HA	1:As:212:LYS:NZ	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Au:159:LEU:HD12	1:Au:260:LEU:HD13	2.02	0.41
1:Av:152:LEU:HD21	2:CN:105:SER:HA	2.02	0.41
1:Aw:236:GLN:HG3	1:UB:229:LYS:NZ	2.36	0.41
1:Ay:282:ASN:OD1	1:Ay:283:GLU:N	2.54	0.41
1:BB:195:ASP:OD2	1:UZ:21:LYS:NZ	2.49	0.41
1:BC:67:ILE:HG13	1:BF:296:TYR:HE2	1.86	0.41
1:BG:53:LEU:O	4:DC:42:ASN:HB3	2.21	0.41
1:BI:41:MET:HE3	1:BI:82:LEU:HD12	2.03	0.41
1:BK:255:LEU:HD23	1:BK:255:LEU:HA	1.91	0.41
1:BO:80:ASN:ND2	1:BO:154:ASN:HB2	2.35	0.41
1:BU:257:HIS:ND1	1:BU:318:GLN:HG3	2.35	0.41
1:BW:216:PRO:HA	1:BW:229:LYS:HA	2.03	0.41
1:Be:80:ASN:ND2	1:Be:153:PRO:O	2.34	0.41
2:Bq:120:TYR:CE1	2:Bq:174:LEU:HB2	2.56	0.41
2:Br:166:LEU:HD11	2:Br:172:ILE:HD13	2.01	0.41
2:Bv:133:PRO:HG3	2:Bv:161:SER:HA	2.03	0.41
2:By:30:GLY:O	2:By:31:LEU:HD23	2.21	0.41
2:Cc:32:LEU:O	1:Fq:308:ARG:NE	2.52	0.41
2:Ch:116:ASN:HB3	2:Ci:114:THR:HG21	2.03	0.41
4:Cs:35:SER:O	4:Cs:41:LYS:HD2	2.21	0.41
4:Cv:120:ILE:HD12	4:Cv:120:ILE:HA	1.94	0.41
4:DB:107:ASP:OD1	4:DB:108:ILE:N	2.54	0.41
4:DE:25:PRO:HB2	4:DE:27:HIS:CD2	2.56	0.41
1:Eq:290:THR:HG22	1:Jf:60:ILE:HG23	2.03	0.41
1:FA:78:ARG:HB3	1:FA:154:ASN:HD22	1.85	0.41
1:FG:78:ARG:HH21	2:Gg:104:PHE:HE1	1.69	0.41
1:FG:199:THR:HG21	1:FG:265:ASN:HB2	2.03	0.41
1:FI:113:LEU:HD23	1:FI:117:GLN:HB2	2.03	0.41
1:FJ:31:PRO:HG3	5:IT:218:TYR:CD1	2.55	0.41
1:FL:49:TRP:CE3	1:Jx:113:LEU:HD11	2.56	0.41
1:FL:97:LYS:HE2	1:FL:97:LYS:HB3	1.92	0.41
1:FN:26:TYR:O	5:IX:218:TYR:OH	2.33	0.41
1:FR:201:MET:HE3	1:FR:201:MET:HB3	1.95	0.41
1:FT:26:TYR:O	5:Id:218:TYR:OH	2.30	0.41
1:FV:305:LEU:HD21	3:HY:77:PHE:HE2	1.86	0.41
1:FY:213:LEU:HD23	1:FY:213:LEU:HA	1.93	0.41
1:Fr:62:ASN:ND2	2:HK:102:ASP:HB2	2.36	0.41
1:Ft:152:LEU:HD21	2:HL:105:SER:HA	2.03	0.41
1:Fy:49:TRP:CZ3	1:Fy:74:SER:HB3	2.56	0.41
1:Fz:28:TRP:CZ3	1:Fz:135:LEU:HB2	2.56	0.41
1:GA:54:ASN:HD22	1:GA:69:THR:C	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GC:267:GLU:H	1:GC:267:GLU:HG2	1.69	0.41
1:GD:80:ASN:ND2	1:GD:154:ASN:HB2	2.35	0.41
1:GH:79:LEU:HD11	1:GH:305:LEU:HB2	2.03	0.41
1:GH:261:ILE:HD12	1:GH:312:LEU:HD23	2.02	0.41
1:GK:239:LYS:HA	1:GK:242:ASN:OD1	2.21	0.41
1:GL:201:MET:HE3	1:GL:201:MET:HB3	1.93	0.41
1:GP:255:LEU:HD23	1:GP:255:LEU:HA	1.93	0.41
1:GQ:121:LEU:O	1:GQ:125:GLU:HG2	2.21	0.41
1:GS:77:VAL:HA	2:HX:29:SER:O	2.21	0.41
2:GZ:153:LYS:HG3	2:GZ:154:SER:H	1.86	0.41
2:Ga:140:ASN:ND2	2:Ga:144:GLU:HB2	2.36	0.41
2:Gn:120:TYR:CE1	2:Gn:174:LEU:HB2	2.56	0.41
2:Gr:64:ALA:HB2	2:Gr:108:ALA:HB2	2.01	0.41
2:Gt:181:ARG:HH22	2:Gu:94:LEU:HB3	1.85	0.41
2:Gz:23:LYS:HG3	2:Gz:24:ASN:N	2.36	0.41
2:HD:123:LEU:HD13	2:HD:173:VAL:HG11	2.02	0.41
2:HJ:165:LYS:HB2	2:HJ:171:PHE:CE2	2.56	0.41
2:HN:56:LYS:HD2	4:Ht:56:PHE:HD1	1.86	0.41
2:HV:156:ASN:HB3	2:HV:178:PHE:CZ	2.55	0.41
4:Hq:107:ASP:OD1	4:Hq:108:ILE:N	2.54	0.41
1:Jj:31:PRO:HG3	5:Mt:218:TYR:CG	2.55	0.41
1:Jl:13:VAL:HG11	1:Jl:281:PRO:HG2	2.03	0.41
1:Jq:96:GLU:O	1:Jq:100:THR:HG23	2.21	0.41
1:Jv:78:ARG:HH21	2:LV:104:PHE:HE1	1.69	0.41
1:Jy:133:PHE:O	1:Jy:137:GLY:N	2.42	0.41
1:KA:49:TRP:CE3	1:Om:113:LEU:HD11	2.56	0.41
1:KB:80:ASN:ND2	1:KB:153:PRO:O	2.54	0.41
1:KD:256:LYS:HE3	1:KD:256:LYS:HB2	1.93	0.41
1:KG:201:MET:HE3	1:KG:201:MET:HB3	1.95	0.41
1:KH:75:GLU:CD	2:Lm:33:SER:H	2.29	0.41
1:KL:41:MET:HE3	1:KL:83:LYS:HB3	2.03	0.41
1:KO:67:ILE:HG13	1:KS:296:TYR:HE2	1.84	0.41
1:KQ:253:ASN:ND2	1:KT:195:ASP:OD1	2.44	0.41
1:KR:165:ILE:HD13	1:KR:191:LEU:HD23	2.02	0.41
1:KU:85:GLN:HE21	1:PB:67:ILE:HD13	1.84	0.41
1:KV:213:LEU:HD23	1:KV:213:LEU:HA	1.90	0.41
1:KV:261:ILE:HD12	1:KV:312:LEU:HD23	2.03	0.41
1:KZ:8:TYR:CD2	1:KZ:93:GLN:HG3	2.55	0.41
1:Ka:181:PHE:CD1	1:Ka:184:ILE:HD12	2.54	0.41
1:Kr:166:LYS:HE2	1:Kr:313:GLN:OE1	2.20	0.41
1:Kv:317:LYS:HE2	1:Kv:319:SER:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kx:196:GLU:HB3	1:Kx:265:ASN:HD22	1.85	0.41
1:Kz:257:HIS:CE1	1:Kz:318:GLN:HG3	2.56	0.41
1:LE:41:MET:HE2	1:LE:83:LYS:H	1.86	0.41
1:LE:307:THR:HG22	2:MF:32:LEU:HB2	2.03	0.41
1:LG:45:LYS:NZ	4:MW:28:ASP:OD2	2.44	0.41
2:LX:153:LYS:HA	2:LX:181:ARG:HH21	1.85	0.41
2:LY:120:TYR:CE1	2:LY:174:LEU:HB2	2.56	0.41
2:Lx:75:LEU:HD23	2:Lx:75:LEU:HA	1.88	0.41
2:MC:37:ASP:O	2:MC:41:GLN:NE2	2.53	0.41
2:MK:156:ASN:HB3	2:MK:178:PHE:CZ	2.55	0.41
1:OY:197:PHE:CD2	1:OY:243:ASN:HB2	2.56	0.41
1:Od:161:MET:SD	1:Od:162:PRO:HD2	2.61	0.41
1:Oe:218:ALA:HA	1:Oe:224:ALA:HA	2.03	0.41
1:Oj:307:THR:HG22	2:QC:32:LEU:HB2	2.03	0.41
1:Ok:96:GLU:O	1:Ok:100:THR:HG23	2.21	0.41
1:Oo:296:TYR:HE2	1:Or:67:ILE:HG13	1.85	0.41
1:PM:229:LYS:NZ	1:UE:236:GLN:HG3	2.36	0.41
1:PP:181:PHE:CD1	1:PP:184:ILE:HD12	2.54	0.41
1:PR:178:ASP:N	1:PR:178:ASP:OD1	2.52	0.41
1:PU:24:ILE:HG12	1:PU:131:ASN:ND2	2.35	0.41
1:PX:49:TRP:CH2	1:PX:74:SER:HB3	2.55	0.41
1:PY:34:ILE:HG12	1:PY:271:PHE:HB3	2.03	0.41
1:Pb:62:ASN:ND2	2:Vh:102:ASP:HB2	2.35	0.41
1:Pe:80:ASN:HB2	1:Pe:155:MET:HG3	2.02	0.41
1:Pk:60:ILE:HG23	1:Pm:290:THR:HG22	2.01	0.41
1:Pk:84:LEU:HD13	1:UJ:57:PRO:HB2	2.03	0.41
1:Pm:196:GLU:HB3	1:Pm:265:ASN:HD22	1.85	0.41
2:QE:140:ASN:ND2	2:QE:144:GLU:HB2	2.36	0.41
2:QO:165:LYS:HE3	2:QO:168:GLU:HA	2.02	0.41
2:QS:125:LYS:NZ	2:QS:169:ASP:OD1	2.54	0.41
2:Qg:75:LEU:HD22	2:Qg:84:LEU:HD13	2.02	0.41
2:Qh:167:THR:HG22	2:Qh:168:GLU:N	2.36	0.41
2:Qr:137:LEU:HB3	2:Qr:145:LEU:HD22	2.02	0.41
4:RD:133:SER:HB3	4:RD:177:TYR:CE1	2.56	0.41
4:RS:159:ALA:HB3	4:RS:187:LYS:HD2	2.01	0.41
4:RT:25:PRO:HB2	4:RT:27:HIS:CD2	2.55	0.41
4:RY:35:SER:O	4:RY:41:LYS:HD2	2.21	0.41
4:Ra:133:SER:HB3	4:Ra:177:TYR:CE1	2.55	0.41
1:TP:31:PRO:HG3	5:WZ:218:TYR:CG	2.55	0.41
1:TW:194:GLY:HA3	4:Vx:36:ASN:HD22	1.84	0.41
1:TX:305:LEU:HD11	4:Vv:32:LEU:HG	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TY:79:LEU:HD23	1:TY:79:LEU:HA	1.93	0.41
1:Tb:79:LEU:HD23	1:Tb:79:LEU:HA	1.93	0.41
1:Te:268:LEU:O	1:Te:307:THR:HG23	2.21	0.41
1:Tg:196:GLU:HB3	1:Tg:265:ASN:HD22	1.86	0.41
1:Ti:41:MET:HE2	1:Ti:82:LEU:HD12	2.03	0.41
1:Tm:181:PHE:CZ	1:Tm:234:LEU:HB2	2.55	0.41
1:Tn:196:GLU:HB3	1:Tn:265:ASN:ND2	2.35	0.41
1:UA:239:LYS:HA	1:UA:242:ASN:OD1	2.21	0.41
1:UK:96:GLU:O	1:UK:100:THR:HG23	2.21	0.41
1:UV:39:LEU:O	1:UV:274:SER:OG	2.29	0.41
1:UZ:181:PHE:CZ	1:UZ:234:LEU:HB2	2.56	0.41
1:Uf:39:LEU:HD21	1:Uf:81:TYR:CE2	2.56	0.41
1:Uf:260:LEU:HD23	1:Uf:260:LEU:HA	1.93	0.41
1:Um:257:HIS:ND1	1:Um:318:GLN:HG3	2.36	0.41
2:Us:153:LYS:HG3	2:Us:154:SER:H	1.86	0.41
2:Uw:167:THR:HG22	2:Uw:168:GLU:H	1.86	0.41
2:VB:153:LYS:HA	2:VB:181:ARG:HH21	1.85	0.41
2:VZ:116:ASN:HB3	2:Va:114:THR:HG21	2.01	0.41
2:Vf:123:LEU:HD21	2:Vf:131:VAL:HG21	2.03	0.41
2:Vo:134:GLY:HA2	4:WQ:77:ILE:HD13	2.03	0.41
2:Vp:116:ASN:HB3	2:Vq:114:THR:HG21	2.03	0.41
2:Vq:133:PRO:HG3	2:Vq:161:SER:HA	2.02	0.41
4:WK:37:GLU:O	4:WK:41:LYS:HD2	2.20	0.41
4:WM:25:PRO:HB2	4:WM:27:HIS:CD2	2.56	0.41
6:Xx:366:GLU:O	6:Xx:370:VAL:HG23	2.21	0.41
6:YD:172:LEU:HD21	6:YE:181:GLU:HA	2.01	0.41
6:YD:366:GLU:O	6:YD:370:VAL:HG23	2.21	0.41
6:YE:18:LEU:HD12	6:YE:18:LEU:HA	1.89	0.41
6:YE:43:LEU:HD12	6:YE:43:LEU:HA	1.95	0.41
6:YF:43:LEU:HD12	6:YF:43:LEU:HA	1.95	0.41
6:YI:192:TYR:CZ	6:YI:194:ASP:HB2	2.56	0.41
5:YN:99:ASN:O	5:YN:103:LEU:HG	2.20	0.41
5:YT:127:PRO:HB2	5:YT:130:GLN:OE1	2.21	0.41
5:YX:79:GLU:O	5:YX:83:ILE:HG12	2.21	0.41
5:Ye:59:ILE:HG13	5:ZA:98:PHE:HE2	1.81	0.41
5:Yr:144:ASP:N	5:Yr:144:ASP:OD1	2.54	0.41
5:Yw:79:GLU:O	5:Yw:83:ILE:HG12	2.21	0.41
5:Yy:163:LYS:HE3	5:Yy:163:LYS:HB2	1.92	0.41
5:ZA:94:LEU:HD11	5:ZA:121:LEU:HG	2.03	0.41
5:ZA:154:LEU:HD13	5:ZB:134:ILE:HD11	2.02	0.41
5:ZC:55:ILE:HG21	5:Ze:116:ALA:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZF:112:ASP:O	5:ZF:115:GLN:HG3	2.21	0.41
5:ZG:70:GLU:O	5:ZG:74:LYS:HG2	2.20	0.41
5:Ze:153:SER:HB2	5:Zf:133:ALA:HB1	2.02	0.41
5:Zf:112:ASP:OD1	5:Zf:115:GLN:NE2	2.49	0.41
5:Zj:143:ILE:HD12	5:Zj:143:ILE:HA	1.92	0.41
5:Zy:94:LEU:HD11	5:Zy:121:LEU:HG	2.01	0.41
5:aA:62:GLU:OE1	5:ag:97:HIS:NE2	2.53	0.41
5:aY:94:LEU:HD11	5:aY:121:LEU:HG	2.01	0.41
5:al:135:ALA:HB1	5:al:143:ILE:HG12	2.03	0.41
5:au:94:LEU:HD11	5:au:121:LEU:HG	2.01	0.41
5:bC:76:LEU:HD21	5:bF:76:LEU:HD22	2.03	0.41
5:bI:94:LEU:HD11	5:bI:121:LEU:HG	2.01	0.41
5:bT:76:LEU:HD23	5:bT:79:GLU:OE2	2.19	0.41
5:bV:135:ALA:HB1	5:bV:143:ILE:HG12	2.03	0.41
5:bk:74:LYS:HA	5:bk:74:LYS:HD3	1.91	0.41
5:bq:57:GLU:HA	5:bq:60:THR:HG22	2.01	0.41
5:bx:136:LYS:HE3	5:bx:136:LYS:HB2	1.90	0.41
5:cG:99:ASN:HB3	5:cG:102:VAL:HG22	2.03	0.41
5:cU:74:LYS:HA	5:cU:74:LYS:HD3	1.91	0.41
5:ca:57:GLU:HA	5:ca:60:THR:HG22	2.02	0.41
5:cn:143:ILE:HD12	5:cn:143:ILE:HA	1.92	0.41
5:cu:74:LYS:HA	5:cu:74:LYS:HD3	1.91	0.41
5:cu:153:SER:HB2	5:cv:133:ALA:HB1	2.02	0.41
5:cw:153:SER:HB2	5:cx:133:ALA:HB1	2.02	0.41
5:dF:136:LYS:HE3	5:dF:136:LYS:HB2	1.90	0.41
5:dn:112:ASP:OD1	5:dn:115:GLN:NE2	2.50	0.41
5:dt:143:ILE:HD12	5:dt:143:ILE:HA	1.92	0.41
5:eE:54:SER:HB3	5:eE:56:ASN:OD1	2.20	0.41
5:eM:118:ARG:O	5:eM:122:VAL:HG23	2.21	0.41
5:eR:83:ILE:HA	5:eR:114:MET:HE2	2.02	0.41
5:eS:74:LYS:HA	5:eS:74:LYS:HD3	1.91	0.41
5:eS:144:ASP:HA	5:eS:148:LEU:HD22	2.02	0.41
5:en:143:ILE:HD12	5:en:143:ILE:HA	1.92	0.41
5:fE:57:GLU:HA	5:fE:60:THR:HG22	2.02	0.41
5:fG:94:LEU:HD11	5:fG:121:LEU:HG	2.02	0.41
5:fP:83:ILE:HA	5:fP:114:MET:HE2	2.03	0.41
5:fp:135:ALA:HB1	5:fp:143:ILE:HG12	2.02	0.41
1:AA:67:ILE:HD12	1:Ep:296:TYR:HE2	1.86	0.41
1:AA:132:HIS:HA	1:AA:254:LEU:HD13	2.01	0.41
1:AA:296:TYR:HE2	1:TI:67:ILE:HD12	1.86	0.41
1:AC:77:VAL:HG21	4:Ck:32:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:87:LYS:NZ	4:Cn:53:THR:O	2.46	0.41
1:AM:96:GLU:O	1:AM:100:THR:HG23	2.21	0.41
1:AP:49:TRP:CZ3	1:AP:74:SER:HB3	2.56	0.41
1:AP:275:LYS:HE3	1:AP:276:TYR:CZ	2.55	0.41
1:AS:43:TYR:HE2	1:AS:45:LYS:HE2	1.86	0.41
1:AT:162:PRO:HG2	2:Bp:31:LEU:HD11	2.03	0.41
1:AU:217:TYR:CD1	1:AU:233:VAL:HG21	2.56	0.41
1:AV:211:LEU:O	1:AV:214:VAL:HG22	2.21	0.41
1:AW:97:LYS:HE2	1:AW:97:LYS:HB3	1.92	0.41
1:AW:268:LEU:O	1:AW:307:THR:HG23	2.21	0.41
1:AX:86:TYR:CE2	1:FJ:57:PRO:HG3	2.56	0.41
1:AY:196:GLU:HB3	1:AY:265:ASN:HD22	1.86	0.41
1:Aa:196:GLU:OE1	1:Aa:265:ASN:ND2	2.51	0.41
1:Af:178:ASP:OD1	1:Af:178:ASP:N	2.52	0.41
1:Ag:49:TRP:CZ3	1:Ag:74:SER:HB3	2.56	0.41
1:Ak:133:PHE:O	1:Ak:137:GLY:N	2.46	0.41
1:Ar:19:GLU:HA	1:Ar:120:LYS:HD3	2.01	0.41
1:As:239:LYS:HA	1:As:242:ASN:OD1	2.20	0.41
1:At:211:LEU:HD23	1:At:211:LEU:HA	1.88	0.41
1:At:229:LYS:NZ	1:Fl:236:GLN:HG3	2.36	0.41
1:Au:28:TRP:O	1:Au:262:TYR:OH	2.27	0.41
1:Av:87:LYS:NZ	4:Cz:53:THR:O	2.38	0.41
1:Ay:17:ILE:HD12	1:Ay:17:ILE:HA	1.96	0.41
1:Ay:66:THR:HG22	4:Cz:52:ARG:HB3	2.03	0.41
1:Ay:163:GLU:O	1:Ay:164:GLN:NE2	2.54	0.41
1:Ay:306:ALA:O	4:Cz:31:LEU:HB2	2.20	0.41
1:Az:255:LEU:HD23	1:Az:255:LEU:HA	1.88	0.41
1:BC:96:GLU:O	1:BC:100:THR:HG23	2.21	0.41
1:BD:196:GLU:HB3	1:BD:265:ASN:ND2	2.36	0.41
1:BH:239:LYS:HA	1:BH:242:ASN:OD1	2.21	0.41
1:BJ:13:VAL:HA	1:BJ:16:ILE:HG22	2.02	0.41
1:BL:113:LEU:HD11	1:UQ:49:TRP:CE3	2.56	0.41
1:BN:196:GLU:HB3	1:BN:265:ASN:HD22	1.84	0.41
1:BO:16:ILE:HD11	1:BO:120:LYS:HE3	2.02	0.41
1:BR:80:ASN:C	1:BR:81:TYR:HD1	2.29	0.41
1:BR:181:PHE:CZ	1:BR:234:LEU:HB2	2.56	0.41
1:BU:166:LYS:HE2	1:BU:166:LYS:HB3	1.86	0.41
1:Bb:195:ASP:H	4:Hx:36:ASN:CB	2.34	0.41
1:Bd:178:ASP:OD1	1:Bd:178:ASP:N	2.51	0.41
2:Bg:156:ASN:HB3	2:Bg:178:PHE:CZ	2.56	0.41
2:Bt:153:LYS:HA	2:Bt:181:ARG:HH21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bu:120:TYR:CE1	2:Bu:174:LEU:HB2	2.56	0.41
2:Bz:125:LYS:NZ	2:Bz:169:ASP:OD1	2.54	0.41
2:CB:120:TYR:CE1	2:CB:174:LEU:HB2	2.56	0.41
2:CF:75:LEU:HD22	2:CF:84:LEU:HD13	2.03	0.41
2:CF:167:THR:HG22	2:CF:168:GLU:H	1.86	0.41
2:CN:75:LEU:HD22	2:CN:84:LEU:HD13	2.02	0.41
2:CU:69:TYR:HB2	2:CU:101:ILE:HD12	2.02	0.41
2:CU:165:LYS:HB2	2:CU:171:PHE:CE2	2.55	0.41
2:CY:37:ASP:O	2:CY:41:GLN:NE2	2.53	0.41
2:CY:75:LEU:HD22	2:CY:84:LEU:HD13	2.02	0.41
2:CZ:114:THR:O	2:Ca:114:THR:HB	2.21	0.41
2:Cb:75:LEU:HD23	2:Cb:75:LEU:HA	1.91	0.41
2:Ce:133:PRO:HG3	2:Ce:161:SER:HA	2.02	0.41
2:Cg:133:PRO:HG3	2:Cg:161:SER:HA	2.02	0.41
4:Ck:133:SER:HB3	4:Ck:177:TYR:CE1	2.56	0.41
4:Cq:93:VAL:HG21	4:Cq:117:ILE:HD11	2.03	0.41
4:DC:20:LYS:HZ3	4:DC:21:PHE:HE1	1.68	0.41
4:DD:107:ASP:OD1	4:DD:108:ILE:N	2.54	0.41
4:DE:120:ILE:HD12	4:DE:120:ILE:HA	1.95	0.41
4:DG:23:LYS:N	4:DG:67:TYR:OH	2.54	0.41
4:DJ:142:ILE:HD11	4:DJ:152:VAL:HG23	2.02	0.41
1:Ep:96:GLU:O	1:Ep:100:THR:HG23	2.21	0.41
1:Eq:255:LEU:HD23	1:Eq:255:LEU:HA	1.89	0.41
1:Es:275:LYS:HE3	1:Es:276:TYR:CZ	2.56	0.41
1:Eu:96:GLU:O	1:Eu:100:THR:HG23	2.21	0.41
1:Ew:31:PRO:HG3	5:IG:218:TYR:CG	2.55	0.41
1:Ey:132:HIS:HA	1:Ey:254:LEU:HD13	2.02	0.41
1:FA:218:ALA:HA	1:FA:224:ALA:HA	2.03	0.41
1:FB:96:GLU:O	1:FB:100:THR:HG23	2.21	0.41
1:FD:165:ILE:HD13	1:FD:191:LEU:HD23	2.03	0.41
1:FF:8:TYR:CD2	1:FF:93:GLN:HG3	2.55	0.41
1:FF:307:THR:HG22	2:GY:32:LEU:HB2	2.03	0.41
1:FG:85:GLN:NE2	1:FG:298:ASP:OD1	2.48	0.41
1:FI:239:LYS:HA	1:FI:242:ASN:OD1	2.21	0.41
1:FI:275:LYS:HE3	1:FI:275:LYS:HB2	1.88	0.41
1:FJ:137:GLY:HA3	1:FJ:160:ASN:OD1	2.21	0.41
1:FM:80:ASN:ND2	1:FM:153:PRO:O	2.54	0.41
1:FQ:174:LYS:O	1:FQ:212:LYS:NZ	2.54	0.41
1:FR:178:ASP:OD1	1:FR:179:LYS:N	2.52	0.41
1:FT:49:TRP:CE3	1:FT:74:SER:HB3	2.55	0.41
1:FV:143:LYS:HE2	4:Hk:37:GLU:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FW:41:MET:HE3	1:FW:83:LYS:HB3	2.03	0.41
1:FZ:86:TYR:OH	1:Fk:55:ALA:O	2.30	0.41
1:Fb:268:LEU:HD21	4:Hl:36:ASN:HD21	1.85	0.41
1:Ff:166:LYS:HE2	1:Ff:166:LYS:HB3	1.92	0.41
1:Fk:143:LYS:HE2	4:Ho:37:GLU:HG2	2.02	0.41
1:Fn:17:ILE:HD12	1:Fn:17:ILE:HA	1.96	0.41
1:Fn:211:LEU:HD23	1:Fn:211:LEU:HA	1.91	0.41
1:Fo:256:LYS:HE3	1:Fo:256:LYS:HB2	1.83	0.41
1:Fq:188:LEU:HD23	1:Fq:188:LEU:HA	1.88	0.41
1:Fq:201:MET:HE3	1:Fq:201:MET:HB3	1.96	0.41
1:Fs:169:VAL:HB	1:Fs:316:ILE:HA	2.01	0.41
1:Ft:79:LEU:HD23	1:Ft:79:LEU:HA	1.89	0.41
1:Fu:211:LEU:HD23	1:Fu:211:LEU:HA	1.89	0.41
1:Fv:175:ASP:HA	1:Fv:212:LYS:NZ	2.36	0.41
1:Fv:277:MET:HA	1:Fv:300:VAL:HB	2.03	0.41
1:GA:49:TRP:CH2	1:GA:74:SER:HB3	2.55	0.41
1:GA:157:GLY:N	1:GA:160:ASN:OD1	2.45	0.41
1:GF:201:MET:HE3	1:GF:201:MET:HB3	1.93	0.41
1:GG:80:ASN:C	1:GG:81:TYR:HD1	2.29	0.41
1:GG:96:GLU:O	1:GG:100:THR:HG23	2.21	0.41
1:GG:223:ALA:HA	1:Kf:223:ALA:HB3	2.01	0.41
1:GH:135:LEU:HD21	1:GH:255:LEU:HG	2.03	0.41
1:GK:77:VAL:HG11	1:GK:305:LEU:HD13	2.02	0.41
1:GK:257:HIS:CE1	1:GK:318:GLN:HG3	2.56	0.41
1:GK:306:ALA:O	4:Hv:31:LEU:HB2	2.21	0.41
1:GL:80:ASN:ND2	1:GL:154:ASN:HB2	2.36	0.41
1:GM:39:LEU:HD21	1:GM:81:TYR:CE2	2.56	0.41
1:GN:13:VAL:HA	1:GN:16:ILE:HG22	2.02	0.41
1:GP:259:ILE:HB	1:GP:314:VAL:HB	2.03	0.41
1:GQ:57:PRO:HB2	1:LC:84:LEU:HD13	2.02	0.41
2:GV:68:PRO:HD2	2:GV:101:ILE:HD11	2.02	0.41
2:GV:156:ASN:HB3	2:GV:178:PHE:CZ	2.56	0.41
2:GY:43:LEU:HD12	2:GY:43:LEU:HA	1.93	0.41
2:GY:138:ASN:HD22	2:GY:153:LYS:HE2	1.85	0.41
2:Gd:167:THR:HG22	2:Gd:168:GLU:H	1.86	0.41
2:Ge:133:PRO:HG3	2:Ge:161:SER:HA	2.03	0.41
2:Gf:137:LEU:N	2:Gf:157:ALA:O	2.48	0.41
2:Gi:58:LYS:HD3	4:He:123:ASN:HD21	1.85	0.41
2:Gi:153:LYS:HA	2:Gi:181:ARG:HH21	1.85	0.41
2:Gr:69:TYR:CE2	2:Gr:70:LYS:HG2	2.55	0.41
2:Gu:167:THR:HG22	2:Gu:168:GLU:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Gw:165:LYS:HE3	2:Gw:168:GLU:HA	2.02	0.41
2:Gx:167:THR:HB	2:Gx:170:LEU:HB3	2.02	0.41
2:HN:37:ASP:O	2:HN:41:GLN:NE2	2.53	0.41
2:HN:165:LYS:HB2	2:HN:171:PHE:CE2	2.55	0.41
2:HO:114:THR:O	2:HP:114:THR:HB	2.21	0.41
2:HO:136:LYS:HD3	2:HO:155:VAL:HG11	2.01	0.41
2:HV:165:LYS:HB2	2:HV:171:PHE:CE2	2.55	0.41
2:HW:116:ASN:HB3	2:HX:114:THR:HG21	2.03	0.41
4:He:73:VAL:HG21	4:He:117:ILE:HD13	2.02	0.41
4:He:171:GLN:HE21	4:He:174:ASN:HA	1.86	0.41
4:Hg:144:ASN:HD21	4:Hg:148:ALA:HB3	1.85	0.41
4:Hm:161:ILE:N	4:Hm:187:LYS:O	2.47	0.41
4:Hr:37:GLU:O	4:Hr:41:LYS:HD2	2.20	0.41
4:Ht:25:PRO:HB2	4:Ht:27:HIS:CD2	2.56	0.41
4:Hu:35:SER:O	4:Hu:41:LYS:HD2	2.21	0.41
4:Hv:23:LYS:N	4:Hv:67:TYR:OH	2.54	0.41
5:Jc:211:LYS:O	5:Jc:214:ARG:HG2	2.21	0.41
1:Jg:306:ALA:O	4:MO:31:LEU:HB2	2.20	0.41
1:Jp:67:ILE:HG13	1:KA:296:TYR:HE2	1.84	0.41
1:Jq:31:PRO:HG3	5:NA:218:TYR:CG	2.56	0.41
1:Jq:87:LYS:NZ	4:MR:53:THR:O	2.45	0.41
1:Jz:239:LYS:HA	1:Jz:242:ASN:OD1	2.21	0.41
1:KA:194:GLY:HA2	2:QL:36:ILE:HG21	2.03	0.41
1:KB:55:ALA:HA	1:LH:141:ILE:HD13	2.02	0.41
1:KC:174:LYS:HE3	1:KC:318:GLN:HG3	2.03	0.41
1:KE:296:TYR:HE2	1:LC:67:ILE:HG13	1.86	0.41
1:KF:174:LYS:O	1:KF:212:LYS:NZ	2.54	0.41
1:KH:201:MET:HE3	1:KH:201:MET:HB3	1.98	0.41
1:KI:255:LEU:HD23	1:KI:255:LEU:HA	1.91	0.41
1:KU:166:LYS:HE2	1:KU:166:LYS:HB3	1.92	0.41
1:KV:275:LYS:HE3	1:KV:275:LYS:HB2	1.87	0.41
1:KW:239:LYS:HA	1:KW:242:ASN:OD1	2.20	0.41
1:KY:84:LEU:HD13	1:Ke:57:PRO:HB2	2.03	0.41
1:KY:158:LEU:HB3	1:KY:260:LEU:HD21	2.02	0.41
1:Kb:55:ALA:HA	1:Ks:141:ILE:HD13	2.01	0.41
1:Kc:211:LEU:HD23	1:Kc:211:LEU:HA	1.91	0.41
1:Kc:306:ALA:O	4:Md:31:LEU:HB2	2.20	0.41
1:Kd:256:LYS:HB2	1:Kd:256:LYS:HE3	1.83	0.41
1:Ke:96:GLU:O	1:Ke:100:THR:HG23	2.21	0.41
1:Kg:96:GLU:O	1:Kg:100:THR:HG23	2.21	0.41
1:Ki:87:LYS:NZ	2:Lz:53:THR:O	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ki:152:LEU:HD21	2:MA:105:SER:HA	2.03	0.41
1:Kj:277:MET:HA	1:Kj:300:VAL:HB	2.03	0.41
1:Kk:26:TYR:O	5:Nu:218:TYR:OH	2.30	0.41
1:Kk:277:MET:HA	1:Kk:300:VAL:HB	2.03	0.41
1:Kl:65:ASN:ND2	4:Mh:57:ASP:O	2.54	0.41
1:Ko:158:LEU:HB3	1:Ko:260:LEU:HD21	2.02	0.41
1:Ko:255:LEU:HD23	1:Ko:255:LEU:HA	1.91	0.41
1:Kt:307:THR:HG22	2:MB:32:LEU:HB2	2.03	0.41
1:LC:211:LEU:HD23	1:LC:211:LEU:HA	1.91	0.41
2:LK:23:LYS:N	2:LK:67:TYR:OH	2.51	0.41
2:LQ:166:LEU:HB2	2:LQ:170:LEU:HD23	2.02	0.41
2:Lc:75:LEU:HD22	2:Lc:84:LEU:HD13	2.02	0.41
2:Lj:56:LYS:HD2	4:Ma:56:PHE:HD1	1.86	0.41
2:Lo:23:LYS:HG3	2:Lo:24:ASN:N	2.36	0.41
2:Lv:116:ASN:HB3	2:Lw:114:THR:HG21	2.02	0.41
2:MD:136:LYS:HD3	2:MD:155:VAL:HG11	2.02	0.41
2:ML:116:ASN:HB3	2:MM:114:THR:HG21	2.03	0.41
4:MO:144:ASN:HD21	4:MO:148:ALA:HB3	1.86	0.41
4:MT:137:VAL:HG22	4:MT:167:THR:HA	2.02	0.41
4:MY:171:GLN:HB2	4:MY:177:TYR:CE1	2.55	0.41
4:Mb:133:SER:HB3	4:Mb:177:TYR:CE1	2.56	0.41
4:Mi:8:VAL:HG12	4:Mi:12:GLN:NE2	2.36	0.41
4:Mk:23:LYS:N	4:Mk:67:TYR:OH	2.54	0.41
1:OW:275:LYS:HE3	1:OW:276:TYR:CZ	2.56	0.41
1:OY:96:GLU:O	1:OY:100:THR:HG23	2.21	0.41
1:OZ:20:VAL:O	5:Rj:213:ARG:NH2	2.26	0.41
1:Oa:31:PRO:HG3	5:Rk:218:TYR:CG	2.55	0.41
1:Oa:162:PRO:O	4:RF:31:LEU:HD21	2.21	0.41
1:Oc:178:ASP:O	1:Oc:182:GLU:HG3	2.21	0.41
1:Oe:169:VAL:HG22	1:Oe:183:LYS:HG3	2.01	0.41
1:Og:70:ILE:HD11	1:Ok:86:TYR:CD2	2.55	0.41
1:Ok:196:GLU:HB3	1:Ok:265:ASN:ND2	2.35	0.41
1:Ol:41:MET:HG2	2:QM:104:PHE:HE2	1.86	0.41
1:Ol:278:LEU:HD23	1:Ol:278:LEU:HA	1.87	0.41
1:Op:41:MET:HE2	4:RJ:111:PHE:HD2	1.86	0.41
1:Op:197:PHE:CE2	1:Op:243:ASN:HB2	2.56	0.41
1:Op:268:LEU:O	1:Op:307:THR:HG23	2.21	0.41
1:Oq:211:LEU:O	1:Oq:214:VAL:HG22	2.20	0.41
1:Or:196:GLU:HB3	1:Or:265:ASN:HD22	1.86	0.41
1:Ot:194:GLY:HA3	2:QM:36:ILE:HG21	2.03	0.41
1:Ou:87:LYS:HG3	1:Ou:296:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ow:75:GLU:CD	2:Qb:33:SER:H	2.29	0.41
1:Oy:211:LEU:HD23	1:Oy:211:LEU:HA	1.86	0.41
1:Oz:143:LYS:HE2	4:RO:37:GLU:HG2	2.02	0.41
1:Oz:196:GLU:HB3	1:Oz:265:ASN:ND2	2.34	0.41
1:Oz:260:LEU:HD23	1:Oz:260:LEU:HA	1.92	0.41
1:PB:135:LEU:HD21	1:PB:255:LEU:HG	2.01	0.41
1:PG:164:GLN:HE22	1:PG:308:ARG:HA	1.86	0.41
1:PO:288:ASP:OD1	1:PO:289:SER:N	2.44	0.41
1:PP:196:GLU:HB3	1:PP:265:ASN:HD22	1.86	0.41
1:PR:163:GLU:O	1:PR:164:GLN:NE2	2.54	0.41
1:PR:296:TYR:HE2	1:PS:67:ILE:HG13	1.85	0.41
1:PR:306:ALA:O	4:RS:31:LEU:HB2	2.20	0.41
1:PT:96:GLU:O	1:PT:100:THR:HG23	2.21	0.41
1:PU:16:ILE:HD12	1:PU:116:ALA:HB1	2.02	0.41
1:PY:16:ILE:HD11	1:PY:120:LYS:HE3	2.03	0.41
1:Pd:158:LEU:HB3	1:Pd:260:LEU:HD21	2.02	0.41
1:Pd:175:ASP:HA	1:Pd:212:LYS:NZ	2.36	0.41
1:Pf:23:PRO:HB2	1:Pf:25:MET:HG2	2.02	0.41
1:Pg:278:LEU:HD12	5:Sq:210:TYR:CG	2.55	0.41
1:Pg:317:LYS:HE2	1:Pg:319:SER:HB2	2.03	0.41
1:Pj:16:ILE:HD12	1:Pj:116:ALA:HB1	2.01	0.41
1:Pj:296:TYR:HE2	1:Pt:67:ILE:HG13	1.86	0.41
1:Pk:317:LYS:HE2	1:Pk:319:SER:HB2	2.03	0.41
1:Po:257:HIS:CE1	1:Po:318:GLN:HG3	2.56	0.41
1:Pw:82:LEU:HD12	1:Pw:82:LEU:HA	1.94	0.41
2:Pz:156:ASN:HB3	2:Pz:178:PHE:CZ	2.56	0.41
2:QF:166:LEU:HB2	2:QF:170:LEU:HD23	2.02	0.41
2:QJ:145:LEU:HD23	2:QJ:145:LEU:HA	1.96	0.41
2:QK:166:LEU:HD11	2:QK:172:ILE:HD13	2.01	0.41
2:QM:145:LEU:HD23	2:QM:145:LEU:HA	1.93	0.41
2:QN:120:TYR:CE1	2:QN:174:LEU:HB2	2.56	0.41
2:QR:30:GLY:O	2:QR:31:LEU:HD23	2.20	0.41
2:QW:23:LYS:HG3	2:QW:24:ASN:H	1.86	0.41
2:Qe:167:THR:HB	2:Qe:170:LEU:HB3	2.03	0.41
2:Qg:133:PRO:HG3	2:Qg:161:SER:HA	2.03	0.41
2:Qj:133:PRO:HG3	2:Qj:161:SER:HA	2.02	0.41
2:Qv:23:LYS:N	2:Qv:67:TYR:OH	2.53	0.41
2:Qv:133:PRO:HG3	2:Qv:161:SER:HA	2.02	0.41
2:RA:116:ASN:HB3	2:RB:114:THR:HG21	2.03	0.41
4:RI:73:VAL:HG21	4:RI:117:ILE:HD13	2.02	0.41
4:RK:144:ASN:HD21	4:RK:148:ALA:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:RU:107:ASP:OD1	4:RU:108:ILE:N	2.54	0.41
1:TJ:79:LEU:HD23	1:TJ:79:LEU:HA	1.93	0.41
1:TN:96:GLU:O	1:TN:100:THR:HG23	2.21	0.41
1:TN:133:PHE:O	1:TN:137:GLY:N	2.44	0.41
1:TN:178:ASP:OD1	1:TN:179:LYS:N	2.53	0.41
1:TP:162:PRO:O	4:Vu:31:LEU:HD21	2.21	0.41
1:TY:8:TYR:CD2	1:TY:93:GLN:HG3	2.55	0.41
1:Td:211:LEU:O	1:Td:214:VAL:HG22	2.21	0.41
1:Te:197:PHE:CE2	1:Te:243:ASN:HB2	2.56	0.41
1:Tg:85:GLN:HB3	1:Th:60:ILE:HD11	2.01	0.41
1:Tl:75:GLU:CD	2:VQ:33:SER:H	2.29	0.41
1:Tn:13:VAL:HG11	1:Tn:281:PRO:HG2	2.03	0.41
1:To:305:LEU:HD21	3:Vr:77:PHE:HE2	1.86	0.41
1:Tp:20:VAL:O	5:Wz:213:ARG:NH2	2.31	0.41
1:Tr:188:LEU:HD23	1:Tr:188:LEU:HA	1.90	0.41
1:Tv:164:GLN:HE22	1:Tv:308:ARG:HA	1.86	0.41
1:UA:49:TRP:CH2	1:UA:74:SER:HB3	2.56	0.41
1:UC:84:LEU:HD13	1:UI:57:PRO:HB2	2.03	0.41
1:UD:54:ASN:OD1	2:VN:47:ASN:ND2	2.40	0.41
1:UD:289:SER:HB2	1:UF:85:GLN:HE22	1.86	0.41
1:UG:66:THR:HG22	4:WH:52:ARG:HB3	2.03	0.41
1:UG:96:GLU:O	1:UG:100:THR:HG23	2.20	0.41
1:UI:149:LYS:HZ1	1:UR:59:THR:HG1	1.69	0.41
1:UI:174:LYS:HE2	1:UI:318:GLN:HE21	1.86	0.41
1:UJ:13:VAL:HG13	1:UJ:119:TYR:CE2	2.56	0.41
1:UK:51:ALA:O	4:WL:41:LYS:NZ	2.50	0.41
1:UK:57:PRO:HG2	1:UN:84:LEU:HD13	2.03	0.41
1:UO:277:MET:HA	1:UO:300:VAL:HB	2.03	0.41
1:UP:239:LYS:HA	1:UP:242:ASN:OD1	2.21	0.41
1:UQ:178:ASP:N	1:UQ:178:ASP:OD1	2.53	0.41
1:UT:80:ASN:HB2	1:UT:155:MET:HG3	2.02	0.41
1:UT:239:LYS:HA	1:UT:242:ASN:OD1	2.21	0.41
1:UU:140:SER:HB2	1:UU:148:GLN:HG2	2.02	0.41
1:UW:80:ASN:ND2	1:UW:154:ASN:HB2	2.35	0.41
1:UX:197:PHE:CD2	1:UX:243:ASN:HB2	2.56	0.41
1:UZ:96:GLU:O	1:UZ:100:THR:HG23	2.21	0.41
1:UZ:317:LYS:HE2	1:UZ:319:SER:HB2	2.03	0.41
1:Ud:195:ASP:H	4:WO:36:ASN:CB	2.34	0.41
1:Ud:239:LYS:HA	1:Ud:242:ASN:OD1	2.21	0.41
1:Uf:255:LEU:HD23	1:Uf:255:LEU:HA	1.91	0.41
1:Ug:278:LEU:HD23	1:Ug:278:LEU:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ui:16:ILE:HD11	1:Ui:120:LYS:HE3	2.03	0.41
1:Ui:259:ILE:HB	1:Ui:314:VAL:HB	2.03	0.41
2:Ux:133:PRO:HG3	2:Ux:161:SER:HA	2.03	0.41
2:VD:133:PRO:HG3	2:VD:161:SER:HA	2.03	0.41
2:VG:77:PHE:CD2	4:WA:138:LYS:HE2	2.52	0.41
2:VM:23:LYS:HE3	2:VM:23:LYS:HB2	1.91	0.41
2:VT:167:THR:HB	2:VT:170:LEU:HB3	2.03	0.41
2:VX:167:THR:HG22	2:VX:168:GLU:N	2.36	0.41
2:VY:133:PRO:HG3	2:VY:161:SER:HA	2.02	0.41
2:Vg:64:ALA:HB2	2:Vg:108:ALA:HB2	2.02	0.41
2:Vh:114:THR:O	2:Vi:114:THR:HB	2.21	0.41
2:Vp:23:LYS:NZ	2:Vp:100:ASP:OD1	2.51	0.41
4:Vs:133:SER:HB3	4:Vs:177:TYR:CE1	2.56	0.41
4:WG:144:ASN:OD1	4:WG:148:ALA:N	2.54	0.41
6:Xz:196:SER:HA	6:Xz:199:GLN:HG3	2.03	0.41
6:YH:197:LEU:HD23	6:YH:201:GLN:HG2	2.01	0.41
6:YH:280:VAL:HG11	6:YH:282:LYS:HZ3	1.86	0.41
6:YH:366:GLU:O	6:YH:370:VAL:HG23	2.21	0.41
6:YI:244:ASN:O	6:YI:245:LEU:C	2.64	0.41
5:YN:131:ILE:HD13	5:YN:140:ILE:HD11	2.01	0.41
5:YP:84:ASN:OD1	5:YP:84:ASN:C	2.64	0.41
5:YP:110:LEU:HG	5:YP:114:MET:HE3	2.02	0.41
5:YP:131:ILE:HD13	5:YP:140:ILE:HD11	2.01	0.41
5:YP:140:ILE:HG22	5:YP:140:ILE:O	2.21	0.41
5:YR:79:GLU:O	5:YR:83:ILE:HG12	2.20	0.41
5:YU:118:ARG:HB3	5:YU:152:VAL:HG11	2.02	0.41
5:YW:127:PRO:HB2	5:YW:130:GLN:OE1	2.21	0.41
5:Ya:94:LEU:HD11	5:Ya:121:LEU:HG	2.03	0.41
5:Yb:131:ILE:O	5:Yb:135:ALA:HB3	2.21	0.41
5:Yd:112:ASP:OD1	5:Yd:115:GLN:NE2	2.50	0.41
5:Yd:126:VAL:HG12	5:Yd:131:ILE:HG13	2.03	0.41
5:Ye:149:GLU:HA	5:Ye:152:VAL:HG22	2.03	0.41
5:Yh:140:ILE:HG22	5:Yh:140:ILE:O	2.21	0.41
5:Yl:112:ASP:OD1	5:Yl:115:GLN:NE2	2.50	0.41
5:Yl:144:ASP:OD1	5:Yl:144:ASP:N	2.54	0.41
5:Yq:79:GLU:O	5:Yq:83:ILE:HG12	2.21	0.41
5:Yw:132:LYS:HA	5:Yw:136:LYS:O	2.21	0.41
5:ZA:126:VAL:HG22	5:ZA:154:LEU:HG	2.02	0.41
5:ZA:148:LEU:O	5:ZA:152:VAL:HG13	2.21	0.41
5:ZB:112:ASP:O	5:ZB:115:GLN:HG3	2.21	0.41
5:ZI:72:ILE:O	5:ZI:76:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZL:143:ILE:HD12	5:ZL:143:ILE:HA	1.89	0.41
5:ZQ:55:ILE:HD13	5:Zw:116:ALA:HB1	2.02	0.41
5:ZQ:100:LYS:HG2	5:ZQ:113:ILE:HG21	2.03	0.41
5:ZQ:111:LYS:HZ2	5:ZT:74:LYS:HE3	1.84	0.41
5:ZR:143:ILE:HD12	5:ZR:143:ILE:HA	1.92	0.41
5:ZX:135:ALA:HB1	5:ZX:143:ILE:HG12	2.03	0.41
5:Ze:86:ILE:HD11	5:Ze:118:ARG:HE	1.86	0.41
5:Zh:135:ALA:HB1	5:Zh:143:ILE:HG12	2.03	0.41
5:Zk:153:SER:HB2	5:Zl:133:ALA:HB1	2.02	0.41
5:Zs:153:SER:HB2	5:Zt:133:ALA:HB1	2.02	0.41
5:Zy:153:SER:HB2	5:Zz:133:ALA:HB1	2.03	0.41
5:aA:57:GLU:HA	5:aA:60:THR:HG22	2.02	0.41
5:aF:135:ALA:HB1	5:aF:143:ILE:HG12	2.03	0.41
5:aH:136:LYS:HE3	5:aH:136:LYS:HB2	1.90	0.41
5:ae:99:ASN:O	5:ae:103:LEU:HG	2.21	0.41
5:ag:94:LEU:HD11	5:ag:121:LEU:HG	2.02	0.41
5:ai:94:LEU:HD11	5:ai:121:LEU:HG	2.01	0.41
5:ak:94:LEU:HD11	5:ak:121:LEU:HG	2.02	0.41
5:ak:153:SER:HB2	5:al:133:ALA:HB1	2.02	0.41
5:ap:143:ILE:HD12	5:ap:143:ILE:HA	1.92	0.41
5:aq:153:SER:HB2	5:ar:133:ALA:HB1	2.01	0.41
5:bK:94:LEU:HD11	5:bK:121:LEU:HG	2.02	0.41
5:bM:98:PHE:HB3	5:bM:117:GLN:HE22	1.86	0.41
5:bP:135:ALA:HB1	5:bP:143:ILE:HG12	2.03	0.41
5:bS:153:SER:HB2	5:bT:133:ALA:HB1	2.02	0.41
5:bU:153:SER:HB2	5:bV:133:ALA:HB1	2.02	0.41
5:bV:143:ILE:HD12	5:bV:143:ILE:HA	1.92	0.41
5:bY:86:ILE:HD11	5:bY:118:ARG:HE	1.84	0.41
5:bc:94:LEU:HD11	5:bc:121:LEU:HG	2.03	0.41
5:be:94:LEU:HD11	5:be:121:LEU:HG	2.03	0.41
5:bg:153:SER:HB2	5:bh:133:ALA:HB1	2.01	0.41
5:bk:94:LEU:HD11	5:bk:121:LEU:HG	2.02	0.41
5:bm:94:LEU:HD11	5:bm:121:LEU:HG	2.02	0.41
5:bq:99:ASN:HB3	5:bq:102:VAL:HG22	2.03	0.41
5:bs:99:ASN:HB3	5:bs:102:VAL:HG22	2.03	0.41
5:bw:86:ILE:HD11	5:bw:118:ARG:HE	1.85	0.41
5:cO:94:LEU:HD11	5:cO:121:LEU:HG	2.02	0.41
5:cQ:153:SER:HB2	5:cR:133:ALA:HB1	2.01	0.41
5:cT:136:LYS:HE3	5:cT:136:LYS:HB2	1.90	0.41
5:cf:112:ASP:OD1	5:cf:115:GLN:NE2	2.49	0.41
5:ck:99:ASN:O	5:ck:103:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:cu:94:LEU:HD11	5:cu:121:LEU:HG	2.03	0.41
5:cw:94:LEU:HD11	5:cw:121:LEU:HG	2.02	0.41
5:dA:57:GLU:HA	5:dA:60:THR:HG22	2.01	0.41
5:dG:94:LEU:HD11	5:dG:121:LEU:HG	2.01	0.41
5:dS:94:LEU:HD11	5:dS:121:LEU:HG	2.02	0.41
5:dW:153:SER:HB2	5:dX:133:ALA:HB1	2.02	0.41
5:dc:55:ILE:HD13	5:eI:116:ALA:HB1	2.02	0.41
5:dg:143:ILE:HD12	5:dg:143:ILE:HG23	1.84	0.41
5:dk:131:ILE:HD13	5:dk:140:ILE:HD11	2.02	0.41
5:dl:146:GLU:CD	5:eS:58:ARG:HH21	2.28	0.41
5:do:140:ILE:O	5:do:140:ILE:HG22	2.21	0.41
5:ds:94:LEU:HD11	5:ds:121:LEU:HG	2.01	0.41
5:du:143:ILE:HD12	5:du:143:ILE:HG23	1.88	0.41
5:dy:60:THR:HB	5:eg:146:GLU:CD	2.46	0.41
5:dy:136:LYS:HE3	5:dy:136:LYS:HB2	1.91	0.41
5:eP:143:ILE:HD12	5:eP:143:ILE:HA	1.92	0.41
5:eR:112:ASP:OD1	5:eR:115:GLN:NE2	2.49	0.41
5:eW:140:ILE:O	5:eW:140:ILE:HG22	2.21	0.41
5:eW:153:SER:HB2	5:eX:133:ALA:HB1	2.02	0.41
5:ed:83:ILE:HA	5:ed:114:MET:HE2	2.03	0.41
5:ei:118:ARG:O	5:ei:122:VAL:HG23	2.21	0.41
5:eq:140:ILE:O	5:eq:140:ILE:HG22	2.21	0.41
5:es:99:ASN:HB3	5:es:102:VAL:HG22	2.03	0.41
5:et:135:ALA:HB1	5:et:143:ILE:HG12	2.03	0.41
5:fC:57:GLU:HA	5:fC:60:THR:HG22	2.02	0.41
5:fG:153:SER:HB2	5:fH:133:ALA:HB1	2.03	0.41
5:fH:143:ILE:HD12	5:fH:143:ILE:HA	1.92	0.41
5:fX:136:LYS:HE3	5:fX:136:LYS:HB2	1.90	0.41
5:fa:57:GLU:HA	5:fa:60:THR:HG22	2.03	0.41
5:fb:143:ILE:HD12	5:fb:143:ILE:HA	1.92	0.41
5:fd:83:ILE:HA	5:fd:114:MET:HE2	2.02	0.41
5:fe:57:GLU:HA	5:fe:60:THR:HG22	2.03	0.41
5:fp:83:ILE:HG12	5:fp:114:MET:HG3	2.03	0.41
5:fr:83:ILE:HG12	5:fr:114:MET:HG3	2.03	0.41
5:fv:83:ILE:HA	5:fv:114:MET:HE2	2.02	0.41
5:gD:83:ILE:HA	5:gD:114:MET:HE2	2.02	0.41
1:AB:290:THR:HG22	1:Eq:60:ILE:HG23	2.03	0.41
1:AF:197:PHE:CD2	1:AF:243:ASN:HB2	2.56	0.41
1:AJ:178:ASP:O	1:AJ:182:GLU:HG3	2.21	0.41
1:AL:67:ILE:HG13	1:AW:296:TYR:HE2	1.85	0.41
1:AN:152:LEU:HD21	4:Cn:112:SER:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:197:PHE:HD1	1:AO:197:PHE:H	1.69	0.41
1:AS:197:PHE:CD2	1:AS:243:ASN:HB2	2.56	0.41
1:AU:137:GLY:HA3	1:AU:160:ASN:OD1	2.21	0.41
1:AV:16:ILE:HD11	1:AV:120:LYS:HE3	2.02	0.41
1:AW:49:TRP:CE3	1:FI:113:LEU:HD11	2.56	0.41
1:Aa:296:TYR:HE2	1:BY:67:ILE:HG13	1.86	0.41
1:Ab:31:PRO:HG3	5:Dl:218:TYR:CD1	2.56	0.41
1:Ag:143:LYS:HE2	4:Cv:37:GLU:HG2	2.02	0.41
1:An:26:TYR:O	5:Dx:218:TYR:OH	2.36	0.41
1:As:49:TRP:CH2	1:As:74:SER:HB3	2.56	0.41
1:Av:289:SER:HB2	1:Ax:85:GLN:HE22	1.86	0.41
1:Aw:49:TRP:CE3	1:Aw:74:SER:HB3	2.55	0.41
1:Aw:255:LEU:HD23	1:Aw:255:LEU:HA	1.89	0.41
1:Ax:181:PHE:HE2	1:Ax:234:LEU:HB2	1.86	0.41
1:BA:201:MET:HE3	1:BA:201:MET:HB3	2.00	0.41
1:BE:196:GLU:HB3	1:BE:265:ASN:HD22	1.86	0.41
1:BF:34:ILE:HG12	1:BF:271:PHE:HB3	2.03	0.41
1:BG:277:MET:HA	1:BG:300:VAL:HB	2.03	0.41
1:BJ:49:TRP:CZ3	1:BJ:74:SER:HB3	2.56	0.41
1:BJ:272:LYS:N	1:BJ:303:GLY:O	2.40	0.41
1:BY:107:ASP:OD2	1:BY:110:ASN:ND2	2.38	0.41
1:Bc:278:LEU:HD12	5:Em:210:TYR:CG	2.56	0.41
2:CC:69:TYR:CE2	2:CC:70:LYS:HG2	2.55	0.41
2:CO:167:THR:HG22	2:CO:168:GLU:N	2.36	0.41
4:Cl:141:LEU:HD11	4:Cl:165:ALA:HB2	2.03	0.41
4:Cr:144:ASN:HD21	4:Cr:148:ALA:HB3	1.85	0.41
4:DC:37:GLU:O	4:DC:41:LYS:HD2	2.20	0.41
4:DH:142:ILE:HD11	4:DH:152:VAL:HG23	2.02	0.41
1:Er:86:TYR:OH	1:Jf:55:ALA:O	2.34	0.41
1:Ey:121:LEU:HB3	1:FB:51:ALA:HB2	2.02	0.41
1:FA:133:PHE:O	1:FA:137:GLY:N	2.45	0.41
1:FB:31:PRO:HG3	5:IL:218:TYR:CG	2.56	0.41
1:FH:43:TYR:HE2	1:FH:45:LYS:HE2	1.86	0.41
1:FK:84:LEU:HD13	1:FN:57:PRO:HB2	2.02	0.41
1:FK:133:PHE:O	1:FK:137:GLY:N	2.43	0.41
1:FM:86:TYR:CE2	1:Jy:57:PRO:HG3	2.56	0.41
1:FS:142:GLN:NE2	1:FS:147:ASN:OD1	2.54	0.41
1:FX:253:ASN:OD1	1:FX:253:ASN:N	2.53	0.41
1:Fd:201:MET:HE3	1:Fd:201:MET:HB3	1.96	0.41
1:Fg:261:ILE:HD12	1:Fg:312:LEU:HD23	2.03	0.41
1:Fn:163:GLU:O	1:Fn:164:GLN:NE2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fn:282:ASN:OD1	1:Fn:283:GLU:N	2.54	0.41
1:Fr:260:LEU:HD23	1:Fr:260:LEU:HA	1.92	0.41
1:Fs:28:TRP:CZ3	1:Fs:135:LEU:HB2	2.57	0.41
1:Fs:196:GLU:HB3	1:Fs:265:ASN:ND2	2.36	0.41
1:Fw:65:ASN:ND2	4:Hs:57:ASP:O	2.53	0.41
1:GB:23:PRO:HB2	1:GB:25:MET:HG2	2.02	0.41
1:GG:255:LEU:HD23	1:GG:255:LEU:HA	1.93	0.41
1:GO:272:LYS:N	1:GO:303:GLY:O	2.44	0.41
1:GO:290:THR:HG22	1:LB:60:ILE:HG23	2.02	0.41
1:GP:306:ALA:O	2:HQ:31:LEU:HD22	2.21	0.41
2:Gb:166:LEU:HB2	2:Gb:170:LEU:HD23	2.03	0.41
2:HA:59:ILE:HG13	1:Ka:65:ASN:HD21	1.86	0.41
2:HJ:69:TYR:HB2	2:HJ:101:ILE:HD12	2.02	0.41
2:HN:140:ASN:HD21	2:HN:144:GLU:HB2	1.86	0.41
4:Ha:127:TYR:CE1	4:Ha:180:LYS:HB2	2.56	0.41
5:Ir:193:ASN:CA	5:Zp:95:SER:HB2	1.95	0.41
1:Jg:205:VAL:HG12	1:Jg:259:ILE:HG23	2.02	0.41
1:Jj:178:ASP:OD1	1:Jj:179:LYS:N	2.53	0.41
1:Jn:178:ASP:O	1:Jn:182:GLU:HG3	2.21	0.41
1:Jo:161:MET:SD	1:Jo:162:PRO:HD2	2.61	0.41
1:Jo:256:LYS:HB2	1:Jo:256:LYS:HE3	1.88	0.41
1:Jq:201:MET:HE3	1:Jq:201:MET:HB3	1.96	0.41
1:Jw:43:TYR:HE2	1:Jw:45:LYS:HE2	1.86	0.41
1:Jy:31:PRO:HG3	5:NI:218:TYR:CD1	2.55	0.41
1:Jy:217:TYR:CD1	1:Jy:233:VAL:HG21	2.56	0.41
1:Jz:211:LEU:O	1:Jz:214:VAL:HG22	2.21	0.41
1:KH:142:GLN:NE2	1:KH:147:ASN:OD1	2.54	0.41
1:KM:135:LEU:HD21	1:KM:255:LEU:HG	2.01	0.41
1:Ka:49:TRP:CE3	1:Ka:74:SER:HB3	2.55	0.41
1:Kc:239:LYS:NZ	1:Kc:245:GLU:O	2.43	0.41
1:Kj:191:LEU:HD23	1:Kj:191:LEU:HA	1.96	0.41
1:Kl:239:LYS:HA	1:Kl:242:ASN:OD1	2.21	0.41
1:Kr:165:ILE:HD13	1:Kr:191:LEU:HD23	2.02	0.41
1:Ky:191:LEU:HD23	1:Ky:191:LEU:HA	1.94	0.41
1:LB:175:ASP:HA	1:LB:212:LYS:HZ3	1.86	0.41
1:LD:77:VAL:HG21	2:Lb:32:LEU:HD23	2.02	0.41
1:LI:89:ARG:NH2	1:LI:112:LEU:HD21	2.35	0.41
2:LJ:56:LYS:HA	2:LJ:56:LYS:HD3	1.98	0.41
2:LK:68:PRO:HD2	2:LK:101:ILE:HD11	2.02	0.41
2:LM:36:ILE:HG23	2:LM:36:ILE:O	2.21	0.41
2:Ll:165:LYS:HE3	2:Ll:168:GLU:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ME:75:LEU:HD22	2:ME:84:LEU:HD13	2.03	0.41
4:MY:23:LYS:N	4:MY:67:TYR:OH	2.48	0.41
1:OV:77:VAL:HG21	4:RD:32:LEU:HD23	2.02	0.41
1:OV:205:VAL:HG12	1:OV:259:ILE:HG23	2.02	0.41
1:Od:89:ARG:HH21	1:Od:112:LEU:HD21	1.86	0.41
1:Oi:49:TRP:CZ3	1:Oi:74:SER:HB3	2.56	0.41
1:Op:13:VAL:HG11	1:Op:281:PRO:HG2	2.03	0.41
1:Oq:80:ASN:ND2	1:Oq:153:PRO:O	2.54	0.41
1:Os:181:PHE:CD1	1:Os:184:ILE:HD12	2.55	0.41
1:PJ:24:ILE:HG12	1:PJ:131:ASN:ND2	2.35	0.41
1:PK:49:TRP:CZ3	1:PK:74:SER:HB3	2.56	0.41
1:PK:80:ASN:HD22	1:PK:152:LEU:HB3	1.85	0.41
1:PK:261:ILE:HD12	1:PK:312:LEU:HD23	2.03	0.41
1:PN:69:THR:HA	1:UF:87:LYS:O	2.20	0.41
1:PV:52:PHE:HB3	4:RW:41:LYS:HE2	2.03	0.41
1:PZ:8:TYR:CD2	1:PZ:93:GLN:HG3	2.56	0.41
1:Pa:239:LYS:HA	1:Pa:242:ASN:OD1	2.21	0.41
1:Pb:39:LEU:HD21	1:Pb:81:TYR:CE2	2.56	0.41
1:Pc:49:TRP:CZ3	1:Pc:74:SER:HB3	2.56	0.41
1:Pe:157:GLY:N	1:Pe:160:ASN:OD1	2.45	0.41
1:Ph:212:LYS:HA	1:Ph:215:LYS:HE3	2.04	0.41
1:Pl:178:ASP:OD1	1:Pl:179:LYS:N	2.53	0.41
1:Po:31:PRO:HG3	5:Sy:218:TYR:CD1	2.56	0.41
1:Pt:41:MET:HE2	1:Pt:83:LYS:H	1.86	0.41
1:Pv:278:LEU:HD12	5:TF:210:TYR:CG	2.56	0.41
2:QK:133:PRO:HG3	2:QK:161:SER:HA	2.02	0.41
2:QQ:58:LYS:H	2:QQ:115:ASN:ND2	2.18	0.41
2:QR:120:TYR:CE1	2:QR:174:LEU:HB2	2.56	0.41
2:Qd:23:LYS:HG3	2:Qd:24:ASN:N	2.36	0.41
2:Qm:75:LEU:HD22	2:Qm:84:LEU:HD13	2.02	0.41
4:RE:37:GLU:HG3	4:RE:39:ARG:H	1.86	0.41
4:RK:37:GLU:O	4:RK:41:LYS:HD2	2.21	0.41
4:RY:78:GLN:HB2	4:RY:88:HIS:CE1	2.56	0.41
1:TN:196:GLU:HB3	1:TN:265:ASN:ND2	2.35	0.41
1:TR:178:ASP:O	1:TR:182:GLU:HG3	2.21	0.41
1:TT:78:ARG:HB3	1:TT:154:ASN:HD22	1.85	0.41
1:TV:77:VAL:HG11	1:TV:305:LEU:HD13	2.03	0.41
1:Ta:197:PHE:CD2	1:Ta:243:ASN:HB2	2.56	0.41
1:Tc:16:ILE:HD11	1:Tc:120:LYS:HE3	2.02	0.41
1:Td:16:ILE:HD11	1:Td:120:LYS:HE3	2.02	0.41
1:Td:239:LYS:HA	1:Td:242:ASN:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ti:194:GLY:HA3	2:VB:36:ILE:HG21	2.03	0.41
1:Tn:308:ARG:HG3	4:WB:33:SER:HA	2.03	0.41
1:To:213:LEU:HD23	1:To:213:LEU:HA	1.89	0.41
1:Ts:41:MET:HE3	1:Ts:41:MET:HB2	1.92	0.41
1:Ts:67:ILE:HG13	1:Tw:296:TYR:HE2	1.84	0.41
1:Tu:256:LYS:O	1:Tu:258:LYS:HG2	2.20	0.41
1:Tw:174:LYS:HG3	1:Tw:175:ASP:OD1	2.19	0.41
1:Tx:133:PHE:O	1:Tx:137:GLY:N	2.42	0.41
1:Tz:261:ILE:HD12	1:Tz:312:LEU:HD23	2.03	0.41
1:UC:24:ILE:HG12	1:UC:131:ASN:ND2	2.36	0.41
1:UI:162:PRO:O	2:VU:31:LEU:HD11	2.21	0.41
1:UN:34:ILE:HG12	1:UN:271:PHE:HB3	2.03	0.41
1:UP:82:LEU:HD12	1:UP:82:LEU:HA	1.93	0.41
1:UQ:157:GLY:N	1:UQ:160:ASN:OD1	2.48	0.41
1:UZ:196:GLU:HB3	1:UZ:265:ASN:HD22	1.86	0.41
2:Uq:167:THR:HB	2:Uq:170:LEU:HB3	2.01	0.41
2:VF:125:LYS:HD2	2:VF:169:ASP:HA	2.03	0.41
2:VN:167:THR:HG22	2:VN:168:GLU:H	1.86	0.41
2:Vc:167:THR:HB	2:Vc:170:LEU:HB3	2.03	0.41
2:Vg:165:LYS:HB2	2:Vg:171:PHE:CE2	2.56	0.41
2:Vj:75:LEU:HD23	2:Vj:75:LEU:HA	1.91	0.41
4:Vt:37:GLU:HG3	4:Vt:39:ARG:H	1.87	0.41
4:Vx:171:GLN:HE21	4:Vx:174:ASN:HA	1.86	0.41
4:WF:69:TYR:CZ	4:WF:70:LYS:HE2	2.56	0.41
4:WJ:107:ASP:OD1	4:WJ:108:ILE:N	2.54	0.41
6:Xz:263:LEU:HD13	6:Xz:269:PHE:CD1	2.56	0.41
6:YC:195:GLU:O	6:YC:198:VAL:HG12	2.21	0.41
6:YD:43:LEU:HD12	6:YD:43:LEU:HA	1.95	0.41
6:YD:259:LEU:HB3	6:YD:269:PHE:HE1	1.86	0.41
6:YE:366:GLU:O	6:YE:370:VAL:HG23	2.21	0.41
5:YS:86:ILE:HD13	5:YS:118:ARG:HE	1.85	0.41
5:YT:57:GLU:HA	5:YT:60:THR:HG22	2.02	0.41
5:Yc:58:ARG:NH1	5:ZG:108:TYR:CE1	2.88	0.41
5:Yd:154:LEU:CD1	5:Ye:130:GLN:HG3	2.49	0.41
5:ZC:125:PHE:CE1	5:ZC:159:ILE:HD13	2.56	0.41
5:ZO:100:LYS:HE3	5:ZO:114:MET:HE1	2.03	0.41
5:ZR:135:ALA:HB1	5:ZR:143:ILE:HG12	2.02	0.41
5:ZV:112:ASP:OD1	5:ZV:115:GLN:NE2	2.48	0.41
5:Za:94:LEU:HD11	5:Za:121:LEU:HG	2.03	0.41
5:Zo:94:LEU:HD13	5:Zo:120:GLU:OE1	2.20	0.41
5:aN:135:ALA:HB1	5:aN:143:ILE:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:aW:76:LEU:HD21	5:aZ:76:LEU:HD22	2.03	0.41
5:ag:153:SER:HB2	5:ah:133:ALA:HB1	2.03	0.41
5:aj:112:ASP:OD1	5:aj:115:GLN:NE2	2.50	0.41
5:bO:113:ILE:O	5:bO:117:GLN:HG2	2.20	0.41
5:bS:94:LEU:HD11	5:bS:121:LEU:HG	2.02	0.41
5:ba:94:LEU:HD11	5:ba:121:LEU:HG	2.03	0.41
5:bj:136:LYS:HE3	5:bj:136:LYS:HB2	1.89	0.41
5:bt:112:ASP:OD1	5:bt:115:GLN:NE2	2.50	0.41
5:bu:99:ASN:O	5:bu:103:LEU:HG	2.21	0.41
5:bx:135:ALA:HB1	5:bx:143:ILE:HG12	2.03	0.41
5:cU:86:ILE:HD11	5:cU:118:ARG:HE	1.86	0.41
5:ci:153:SER:HB2	5:cj:133:ALA:HB1	2.02	0.41
5:cl:135:ALA:HB1	5:cl:143:ILE:HG12	2.03	0.41
5:cm:99:ASN:O	5:cm:103:LEU:HG	2.21	0.41
5:co:99:ASN:HB3	5:co:102:VAL:HG22	2.03	0.41
5:co:99:ASN:O	5:co:103:LEU:HG	2.21	0.41
5:cs:153:SER:HB2	5:ct:133:ALA:HB1	2.02	0.41
5:dE:111:LYS:HZ2	5:dH:74:LYS:HE3	1.86	0.41
5:do:153:SER:HB2	5:dp:133:ALA:HB1	2.03	0.41
5:dt:112:ASP:OD1	5:dt:115:GLN:NE2	2.49	0.41
5:dv:136:LYS:HE3	5:dv:136:LYS:HB2	1.78	0.41
5:dz:130:GLN:OE1	5:dz:130:GLN:N	2.51	0.41
5:eC:140:ILE:O	5:eC:140:ILE:HG22	2.21	0.41
5:eE:140:ILE:HG22	5:eE:140:ILE:O	2.21	0.41
5:eF:136:LYS:HB2	5:eF:136:LYS:HE3	1.76	0.41
5:eI:99:ASN:HB3	5:eI:102:VAL:HG22	2.03	0.41
5:eI:111:LYS:HZ2	5:eL:74:LYS:HE3	1.86	0.41
5:eS:143:ILE:HD12	5:eS:143:ILE:HG23	1.88	0.41
5:ei:122:VAL:HG11	5:ei:151:LEU:HD13	2.02	0.41
5:er:83:ILE:HG12	5:er:114:MET:HG3	2.03	0.41
5:et:83:ILE:HA	5:et:114:MET:HE2	2.02	0.41
5:fA:153:SER:HB2	5:fB:133:ALA:HB1	2.03	0.41
5:fB:135:ALA:HB1	5:fB:143:ILE:HG12	2.03	0.41
5:fG:57:GLU:HA	5:fG:60:THR:HG22	2.02	0.41
5:fY:57:GLU:HA	5:fY:60:THR:HG22	2.03	0.41
5:fi:94:LEU:HD11	5:fi:121:LEU:HG	2.02	0.41
5:fj:136:LYS:HE3	5:fj:136:LYS:HB2	1.89	0.41
5:fm:57:GLU:HA	5:fm:60:THR:HG22	2.01	0.41
5:fn:83:ILE:HA	5:fn:114:MET:HE2	2.03	0.41
5:ft:83:ILE:HA	5:ft:114:MET:HE2	2.03	0.41
5:gD:135:ALA:HB1	5:gD:143:ILE:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:96:GLU:O	1:AF:100:THR:HG23	2.21	0.40
1:AL:218:ALA:HA	1:AL:224:ALA:HA	2.03	0.40
1:AR:199:THR:HG21	1:AR:265:ASN:HB2	2.03	0.40
1:AW:197:PHE:CE2	1:AW:243:ASN:HB2	2.56	0.40
1:Aj:101:SER:OG	1:Aj:102:ASP:N	2.53	0.40
1:BA:174:LYS:HE2	1:BA:318:GLN:HE21	1.86	0.40
1:BR:62:ASN:ND2	2:Cd:102:ASP:HB2	2.37	0.40
1:BS:277:MET:HA	1:BS:300:VAL:HB	2.04	0.40
1:BV:8:TYR:CD2	1:BV:93:GLN:HG3	2.57	0.40
1:BX:260:LEU:HD23	1:BX:260:LEU:HA	1.93	0.40
1:Be:43:TYR:HB2	1:Be:78:ARG:HG2	2.03	0.40
2:Bi:23:LYS:N	2:Bi:67:TYR:OH	2.54	0.40
2:Bk:153:LYS:HG3	2:Bk:154:SER:H	1.86	0.40
2:CK:137:LEU:HD11	2:CK:159:ALA:HB2	2.02	0.40
2:CP:181:ARG:HH12	2:CQ:94:LEU:HB3	1.85	0.40
2:CY:140:ASN:HD21	2:CY:144:GLU:HB2	1.86	0.40
2:CZ:102:ASP:HB2	1:UQ:62:ASN:ND2	2.35	0.40
2:Ca:75:LEU:HD22	2:Ca:84:LEU:HD13	2.03	0.40
4:Co:65:LEU:HD12	4:Co:92:HIS:NE2	2.37	0.40
4:Cq:33:SER:OG	1:FJ:75:GLU:OE2	2.32	0.40
4:Cx:127:TYR:CE1	4:Cx:180:LYS:HB2	2.55	0.40
4:Cz:137:VAL:HG12	4:Cz:138:LYS:HG3	2.01	0.40
4:DI:36:ASN:CB	1:Uj:195:ASP:H	2.34	0.40
1:Er:43:TYR:CE1	1:Er:45:LYS:HE3	2.57	0.40
1:Er:78:ARG:HH21	2:GW:104:PHE:HE1	1.69	0.40
1:Es:132:HIS:HA	1:Es:254:LEU:HD13	2.01	0.40
1:Et:196:GLU:HB3	1:Et:265:ASN:ND2	2.36	0.40
1:Eu:197:PHE:CD2	1:Eu:243:ASN:HB2	2.56	0.40
1:Eu:278:LEU:HD23	1:Eu:278:LEU:HA	1.83	0.40
1:FA:260:LEU:HD23	1:FA:260:LEU:HA	1.89	0.40
1:FC:86:TYR:CE2	1:FI:57:PRO:HG3	2.57	0.40
1:FH:57:PRO:HB2	1:FO:84:LEU:HD13	2.03	0.40
1:FM:55:ALA:HA	1:GS:141:ILE:HD13	2.02	0.40
1:FM:272:LYS:N	1:FM:303:GLY:O	2.50	0.40
1:FN:196:GLU:HB3	1:FN:265:ASN:HD22	1.86	0.40
1:FU:196:GLU:HB3	1:FU:265:ASN:ND2	2.36	0.40
1:FY:101:SER:OG	1:FY:102:ASP:N	2.53	0.40
1:Ff:85:GLN:HE21	1:KM:67:ILE:HD13	1.84	0.40
1:Fj:24:ILE:HG12	1:Fj:131:ASN:ND2	2.36	0.40
1:Fk:201:MET:HE3	1:Fk:201:MET:HB3	1.96	0.40
1:Fl:152:LEU:HD21	2:HD:105:SER:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fn:133:PHE:O	1:Fn:137:GLY:N	2.42	0.40
1:Fp:84:LEU:HD22	1:Fp:149:LYS:HE3	2.02	0.40
1:Fp:162:PRO:O	2:HB:31:LEU:HD11	2.21	0.40
1:Fw:25:MET:HE1	1:Fw:130:ILE:HG22	2.04	0.40
1:Fz:79:LEU:HD23	1:Fz:79:LEU:HA	1.92	0.40
1:Fz:158:LEU:HB3	1:Fz:260:LEU:HD21	2.02	0.40
1:GA:101:SER:OG	1:GA:102:ASP:N	2.55	0.40
1:GD:133:PHE:O	1:GD:137:GLY:N	2.46	0.40
1:GE:277:MET:HA	1:GE:300:VAL:HB	2.03	0.40
1:GG:52:PHE:CZ	1:GG:71:GLY:HA3	2.57	0.40
1:GK:195:ASP:H	4:Hv:36:ASN:CB	2.34	0.40
1:GN:278:LEU:HD23	1:GN:278:LEU:HA	1.84	0.40
1:GP:16:ILE:HD11	1:GP:120:LYS:HE3	2.03	0.40
1:GP:101:SER:OG	1:GP:102:ASP:N	2.55	0.40
1:GQ:26:TYR:O	5:Ja:218:TYR:OH	2.32	0.40
1:GR:174:LYS:HG3	1:GR:175:ASP:OD1	2.20	0.40
2:GX:23:LYS:N	2:GX:67:TYR:OH	2.54	0.40
2:Gq:120:TYR:CE1	2:Gq:174:LEU:HB2	2.56	0.40
2:HD:23:LYS:HG3	2:HD:24:ASN:N	2.36	0.40
2:HF:133:PRO:HG3	2:HF:161:SER:HA	2.02	0.40
2:HR:23:LYS:N	2:HR:67:TYR:OH	2.53	0.40
2:HV:116:ASN:HB3	4:Hx:58:LYS:HE3	2.02	0.40
2:HW:23:LYS:NZ	2:HW:100:ASP:OD1	2.51	0.40
4:Hb:41:LYS:HB3	4:Hb:41:LYS:HE2	1.88	0.40
4:Hn:162:ASN:HB3	4:Hn:184:PHE:CZ	2.55	0.40
4:Ht:8:VAL:HG12	4:Ht:12:GLN:NE2	2.36	0.40
4:Hv:120:ILE:HD12	4:Hv:120:ILE:HA	1.95	0.40
1:Jg:43:TYR:CE1	1:Jg:45:LYS:HE3	2.57	0.40
1:Jj:197:PHE:CD2	1:Jj:243:ASN:HB2	2.56	0.40
1:Jl:162:PRO:O	4:MQ:31:LEU:HD21	2.21	0.40
1:Jo:89:ARG:HH21	1:Jo:112:LEU:HD21	1.86	0.40
1:Jr:70:ILE:HD11	1:Jv:86:TYR:CD2	2.55	0.40
1:Jt:305:LEU:HD11	4:MR:32:LEU:HG	2.03	0.40
1:Jw:197:PHE:CD2	1:Jw:243:ASN:HB2	2.56	0.40
1:Jx:272:LYS:N	1:Jx:303:GLY:O	2.50	0.40
1:Jy:26:TYR:O	5:NI:218:TYR:OH	2.23	0.40
1:KA:201:MET:HE3	1:KA:201:MET:HB3	1.87	0.40
1:KB:272:LYS:N	1:KB:303:GLY:O	2.50	0.40
1:KE:86:TYR:OH	1:LC:55:ALA:O	2.32	0.40
1:KE:194:GLY:HA3	2:LX:36:ILE:HG21	2.03	0.40
1:KI:59:THR:O	2:Lh:61:ASN:ND2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:201:MET:HE3	1:KJ:201:MET:HB3	1.97	0.40
1:KK:77:VAL:HG11	1:KK:305:LEU:HD13	2.03	0.40
1:KK:85:GLN:HE22	1:KM:289:SER:HB2	1.86	0.40
1:KM:50:ASP:HB3	1:KM:73:SER:OG	2.21	0.40
1:KS:201:MET:HE3	1:KS:201:MET:HB3	1.96	0.40
1:KV:49:TRP:CZ3	1:KV:74:SER:HB3	2.56	0.40
1:Ke:84:LEU:HD22	1:Ke:149:LYS:HE3	2.02	0.40
1:Kh:66:THR:HG22	2:MD:52:CYS:HB3	2.04	0.40
1:Kh:169:VAL:HB	1:Kh:316:ILE:HA	2.02	0.40
1:Kj:41:MET:HE3	1:Kj:41:MET:HB2	1.93	0.40
1:Kk:8:TYR:CD2	1:Kk:93:GLN:HG3	2.56	0.40
1:Kk:178:ASP:OD1	1:Kk:178:ASP:N	2.53	0.40
1:Ku:296:TYR:HE2	1:LE:67:ILE:HG13	1.86	0.40
1:LA:80:ASN:ND2	1:LA:154:ASN:HB2	2.36	0.40
1:LG:278:LEU:HD12	5:OQ:210:TYR:CG	2.56	0.40
1:LH:77:VAL:HA	2:MM:29:SER:O	2.21	0.40
1:LH:175:ASP:HA	1:LH:212:LYS:NZ	2.36	0.40
2:LP:140:ASN:ND2	2:LP:144:GLU:HB2	2.36	0.40
2:LY:181:ARG:NH1	2:LZ:94:LEU:O	2.40	0.40
2:Lb:58:LYS:H	2:Lb:115:ASN:ND2	2.18	0.40
2:Le:165:LYS:HE3	2:Le:168:GLU:HA	2.03	0.40
2:Ln:100:ASP:HB3	2:Ln:109:THR:HB	2.03	0.40
2:Lo:160:LEU:HD11	2:Lo:176:SER:HB2	2.02	0.40
2:Ls:23:LYS:HG3	2:Ls:24:ASN:N	2.36	0.40
2:Ls:123:LEU:HD13	2:Ls:173:VAL:HG11	2.02	0.40
2:MH:23:LYS:NZ	2:MH:100:ASP:OD1	2.53	0.40
2:ML:77:PHE:CD2	4:Mn:138:LYS:HE2	2.54	0.40
4:Mi:25:PRO:HB2	4:Mi:27:HIS:CD2	2.56	0.40
4:Mj:35:SER:O	4:Mj:41:LYS:HD2	2.21	0.40
5:OR:211:LYS:O	5:OR:214:ARG:HG2	2.21	0.40
1:OU:78:ARG:O	1:OU:154:ASN:ND2	2.52	0.40
1:OY:196:GLU:HB3	1:OY:265:ASN:ND2	2.35	0.40
1:Oa:13:VAL:HG11	1:Oa:281:PRO:HG2	2.03	0.40
1:Oc:282:ASN:OD1	1:Oc:283:GLU:N	2.53	0.40
1:Oe:260:LEU:HD23	1:Oe:260:LEU:HA	1.89	0.40
1:Of:96:GLU:O	1:Of:100:THR:HG23	2.21	0.40
1:Om:174:LYS:O	1:Om:212:LYS:NZ	2.53	0.40
1:On:256:LYS:HG2	1:On:257:HIS:CD2	2.56	0.40
1:Os:196:GLU:HB3	1:Os:265:ASN:HD22	1.86	0.40
1:Ou:78:ARG:O	1:Ou:154:ASN:ND2	2.54	0.40
1:PA:41:MET:HE3	1:PA:83:LYS:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:PA:107:ASP:OD2	1:PA:110:ASN:ND2	2.28	0.40
1:PG:165:ILE:HD13	1:PG:191:LEU:HD23	2.02	0.40
1:PI:239:LYS:HA	1:PI:242:ASN:OD1	2.21	0.40
1:PJ:174:LYS:HG3	1:PJ:175:ASP:OD1	2.21	0.40
1:PL:49:TRP:CH2	1:PL:74:SER:HB3	2.56	0.40
1:PM:196:GLU:HB3	1:PM:265:ASN:HD22	1.86	0.40
1:PN:178:ASP:OD1	1:PN:178:ASP:N	2.53	0.40
1:PU:13:VAL:HG13	1:PU:119:TYR:CE2	2.56	0.40
1:PV:57:PRO:HG2	1:PY:84:LEU:HD13	2.03	0.40
1:PY:80:ASN:HD22	1:PY:154:ASN:HB2	1.87	0.40
1:PZ:277:MET:HA	1:PZ:300:VAL:HB	2.03	0.40
1:Pe:239:LYS:HA	1:Pe:242:ASN:OD1	2.21	0.40
1:Pk:181:PHE:CZ	1:Pk:234:LEU:HB2	2.56	0.40
1:Pm:175:ASP:HA	1:Pm:212:LYS:NZ	2.36	0.40
1:Pu:57:PRO:HB2	1:Ug:84:LEU:HD13	2.02	0.40
1:Pw:175:ASP:HA	1:Pw:212:LYS:NZ	2.37	0.40
2:QP:181:ARG:NH1	2:QQ:94:LEU:HB3	2.35	0.40
2:Qn:167:THR:HB	2:Qn:170:LEU:HB3	2.03	0.40
2:Qq:75:LEU:HD23	2:Qq:75:LEU:HA	1.90	0.40
2:Qv:32:LEU:O	1:UJ:308:ARG:NE	2.52	0.40
4:RI:171:GLN:HE21	4:RI:174:ASN:HA	1.86	0.40
4:RS:141:LEU:HD13	4:RS:149:LEU:HB3	2.02	0.40
1:TS:89:ARG:NH2	1:TS:112:LEU:HD21	2.37	0.40
1:TU:96:GLU:O	1:TU:100:THR:HG23	2.21	0.40
1:TW:165:ILE:HD13	1:TW:191:LEU:HD23	2.04	0.40
1:To:143:LYS:HE2	4:WD:37:GLU:HG2	2.02	0.40
1:UI:86:TYR:CE1	1:UR:57:PRO:HA	2.56	0.40
1:UI:201:MET:HE3	1:UI:201:MET:HB3	2.00	0.40
1:UL:178:ASP:OD1	1:UL:179:LYS:N	2.53	0.40
1:US:28:TRP:CZ3	1:US:135:LEU:HB2	2.56	0.40
1:UV:244:ARG:CZ	1:UX:249:ILE:HB	2.51	0.40
1:UW:212:LYS:HA	1:UW:215:LYS:HE3	2.04	0.40
1:UW:263:PRO:HG3	1:UW:268:LEU:HD12	2.04	0.40
1:Ue:216:PRO:HA	1:Ue:229:LYS:HA	2.03	0.40
1:Ui:41:MET:HE2	1:Ui:83:LYS:H	1.86	0.40
1:Uk:278:LEU:HD12	5:Xu:210:TYR:CG	2.56	0.40
2:VV:75:LEU:HD22	2:VV:84:LEU:HD13	2.02	0.40
2:VV:133:PRO:HG3	2:VV:161:SER:HA	2.03	0.40
4:Vy:142:ILE:HD11	4:Vy:152:VAL:HG23	2.01	0.40
4:WK:25:PRO:HB2	4:WK:27:HIS:CD2	2.56	0.40
4:WL:107:ASP:OD1	4:WL:108:ILE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:YB:43:LEU:HD12	6:YB:43:LEU:HA	1.96	0.40
6:YH:200:LEU:HD11	6:YI:209:THR:HG21	2.03	0.40
5:YR:58:ARG:NH1	5:Yj:146:GLU:OE1	2.54	0.40
5:YY:70:GLU:O	5:YY:74:LYS:HG2	2.20	0.40
5:YZ:59:ILE:HG22	5:YZ:63:LEU:HD11	2.02	0.40
5:Yb:75:GLN:O	5:Yb:79:GLU:HG2	2.22	0.40
5:Yl:75:GLN:NE2	5:Yl:79:GLU:OE1	2.54	0.40
5:Yn:112:ASP:O	5:Yn:115:GLN:HG3	2.22	0.40
5:Yp:130:GLN:OE1	5:Yp:130:GLN:N	2.52	0.40
5:ZA:112:ASP:OD1	5:ZA:115:GLN:NE2	2.54	0.40
5:ZW:57:GLU:HA	5:ZW:60:THR:HG22	2.02	0.40
5:ah:112:ASP:O	5:ah:115:GLN:HG3	2.22	0.40
5:ap:112:ASP:OD1	5:ap:115:GLN:NE2	2.49	0.40
5:bE:57:GLU:HA	5:bE:60:THR:HG22	2.03	0.40
5:bX:143:ILE:HD12	5:bX:143:ILE:HA	1.92	0.40
5:bZ:112:ASP:OD1	5:bZ:115:GLN:NE2	2.49	0.40
5:ba:74:LYS:HA	5:ba:74:LYS:HD3	1.91	0.40
5:be:153:SER:HB2	5:bf:133:ALA:HB1	2.02	0.40
5:bg:94:LEU:HD11	5:bg:121:LEU:HG	2.03	0.40
5:bz:135:ALA:HB1	5:bz:143:ILE:HG12	2.03	0.40
5:cI:94:LEU:HD11	5:cI:121:LEU:HG	2.02	0.40
5:cT:135:ALA:HB1	5:cT:143:ILE:HG12	2.02	0.40
5:cf:136:LYS:HE3	5:cf:136:LYS:HB2	1.89	0.40
5:cj:112:ASP:OD1	5:cj:115:GLN:NE2	2.49	0.40
5:cq:153:SER:HB2	5:cr:133:ALA:HB1	2.02	0.40
5:cr:112:ASP:OD1	5:cr:115:GLN:NE2	2.50	0.40
5:cu:55:ILE:HG21	5:da:116:ALA:HB2	2.03	0.40
5:dQ:153:SER:HB2	5:dR:133:ALA:HB1	2.02	0.40
5:dW:76:LEU:HD21	5:dZ:76:LEU:HD22	2.03	0.40
5:dk:94:LEU:HD11	5:dk:121:LEU:HG	2.02	0.40
5:ds:63:LEU:HD11	5:eb:136:LYS:HD2	2.02	0.40
5:du:60:THR:HB	5:ec:146:GLU:CD	2.46	0.40
5:eB:130:GLN:OE1	5:eB:130:GLN:N	2.51	0.40
5:eC:148:LEU:O	5:eC:152:VAL:HG13	2.21	0.40
5:eK:131:ILE:HD13	5:eK:140:ILE:HD11	2.02	0.40
5:eT:83:ILE:HA	5:eT:114:MET:HE2	2.02	0.40
5:eZ:83:ILE:HA	5:eZ:114:MET:HE2	2.03	0.40
5:eb:112:ASP:OD1	5:eb:115:GLN:NE2	2.49	0.40
5:ef:83:ILE:HG12	5:ef:114:MET:HG3	2.03	0.40
5:eg:153:SER:HB2	5:eh:133:ALA:HB1	2.02	0.40
5:el:83:ILE:HA	5:el:114:MET:HE2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eo:140:ILE:HG22	5:eo:140:ILE:O	2.22	0.40
5:fF:83:ILE:HG12	5:fF:114:MET:HG3	2.03	0.40
5:fH:83:ILE:HA	5:fH:114:MET:HE2	2.02	0.40
5:fL:83:ILE:HA	5:fL:114:MET:HE2	2.03	0.40
5:fc:74:LYS:HA	5:fc:74:LYS:HD3	1.91	0.40
5:ff:135:ALA:HB1	5:ff:143:ILE:HG12	2.03	0.40
5:fi:57:GLU:HA	5:fi:60:THR:HG22	2.02	0.40
5:fk:94:LEU:HD11	5:fk:121:LEU:HG	2.02	0.40
5:fv:83:ILE:HG12	5:fv:114:MET:HG3	2.03	0.40
5:fy:94:LEU:HD11	5:fy:121:LEU:HG	2.04	0.40
5:fz:74:LYS:HE3	5:gA:111:LYS:HZ2	1.86	0.40
1:AA:96:GLU:O	1:AA:100:THR:HG23	2.21	0.40
1:AF:216:PRO:HB2	1:AF:224:ALA:HB1	2.01	0.40
1:AH:307:THR:O	1:AH:310:THR:OG1	2.34	0.40
1:AO:196:GLU:HB3	1:AO:265:ASN:ND2	2.37	0.40
1:AQ:307:THR:HG22	2:Bj:32:LEU:HB2	2.03	0.40
1:AS:57:PRO:HB2	1:AZ:84:LEU:HD13	2.04	0.40
1:AT:113:LEU:HD23	1:AT:117:GLN:HB2	2.03	0.40
1:AT:239:LYS:HA	1:AT:242:ASN:OD1	2.21	0.40
1:AU:60:ILE:HD11	1:Tf:85:GLN:HB3	2.04	0.40
1:AY:174:LYS:HE3	1:AY:318:GLN:HG3	2.03	0.40
1:Aa:149:LYS:HZ1	1:BY:59:THR:HG1	1.62	0.40
1:Aa:194:GLY:HA3	2:Bt:36:ILE:HG21	2.03	0.40
1:Ac:79:LEU:HD23	1:Ac:79:LEU:HA	1.92	0.40
1:Af:308:ARG:HG3	4:Ct:33:SER:HA	2.02	0.40
1:Ax:282:ASN:HB3	1:Ax:296:TYR:HB2	2.03	0.40
1:Ay:150:ARG:HE	2:CP:82:THR:HB	1.87	0.40
1:BD:169:VAL:HB	1:BD:316:ILE:HA	2.01	0.40
1:BG:8:TYR:CD2	1:BG:93:GLN:HG3	2.56	0.40
1:BO:212:LYS:HA	1:BO:215:LYS:HE3	2.04	0.40
1:BQ:195:ASP:OD2	1:Fr:21:LYS:NZ	2.52	0.40
1:BS:178:ASP:OD1	1:BS:179:LYS:N	2.53	0.40
1:BV:31:PRO:HG3	5:Ef:218:TYR:CD1	2.56	0.40
1:BY:26:TYR:O	5:Ei:218:TYR:OH	2.37	0.40
1:BZ:77:VAL:HG21	2:Bx:32:LEU:HD23	2.02	0.40
1:Ba:306:ALA:O	2:Cb:31:LEU:HD22	2.21	0.40
1:Bb:121:LEU:O	1:Bb:125:GLU:HG2	2.21	0.40
1:Bc:211:LEU:O	1:Bc:214:VAL:HG22	2.22	0.40
1:Bd:77:VAL:HA	2:Ci:29:SER:O	2.21	0.40
2:Bm:145:LEU:HD23	2:Bm:145:LEU:HA	1.95	0.40
2:Bx:125:LYS:HD2	2:Bx:169:ASP:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CR:114:THR:O	2:CS:114:THR:HB	2.20	0.40
4:Cw:37:GLU:O	4:Cw:41:LYS:HD2	2.21	0.40
4:Cx:133:SER:HB3	4:Cx:177:TYR:CE1	2.55	0.40
4:DF:35:SER:O	4:DF:41:LYS:HD2	2.21	0.40
4:DI:31:LEU:HD21	1:Uj:161:MET:SD	2.61	0.40
1:Er:28:TRP:O	1:Er:262:TYR:OH	2.35	0.40
1:Ez:89:ARG:NH2	1:Ez:112:LEU:HD21	2.36	0.40
1:FE:49:TRP:CZ3	1:FE:74:SER:HB3	2.56	0.40
1:FH:63:GLU:OE2	1:GT:292:VAL:HG11	2.22	0.40
1:FI:162:PRO:HG2	2:Ge:31:LEU:HD11	2.03	0.40
1:FL:268:LEU:O	1:FL:307:THR:HG23	2.21	0.40
1:FN:196:GLU:OE1	1:FN:265:ASN:ND2	2.53	0.40
1:FP:194:GLY:HA3	2:Gi:36:ILE:HG21	2.03	0.40
1:FQ:31:PRO:HG3	5:Ia:218:TYR:CD1	2.56	0.40
1:FV:260:LEU:HD23	1:FV:260:LEU:HA	1.92	0.40
1:Fg:239:LYS:NZ	1:Fg:245:GLU:O	2.52	0.40
1:Fm:282:ASN:HB3	1:Fm:296:TYR:HB2	2.03	0.40
1:Fs:91:LEU:HD21	1:Fs:112:LEU:HD13	2.03	0.40
1:Fz:175:ASP:HA	1:Fz:212:LYS:NZ	2.36	0.40
1:GD:188:LEU:HD23	1:GD:188:LEU:HA	1.91	0.40
1:GD:201:MET:HE3	1:GD:201:MET:HB3	1.96	0.40
1:GF:3:LEU:HD22	5:JP:198:ASN:C	2.46	0.40
1:GF:296:TYR:HE2	1:GP:67:ILE:HG13	1.86	0.40
1:GO:277:MET:HA	1:GO:300:VAL:HB	2.04	0.40
1:GT:257:HIS:ND1	1:GT:318:GLN:HG3	2.36	0.40
2:Gd:23:LYS:N	2:Gd:67:TYR:OH	2.51	0.40
2:Gf:120:TYR:CE1	2:Gf:174:LEU:HB2	2.56	0.40
2:Gj:181:ARG:NH1	2:Gk:94:LEU:O	2.40	0.40
2:Gz:113:ILE:HD12	2:Gz:113:ILE:HA	1.93	0.40
4:Hs:107:ASP:OD1	4:Hs:108:ILE:N	2.54	0.40
1:Je:96:GLU:O	1:Je:100:THR:HG23	2.21	0.40
1:Jf:8:TYR:CD2	1:Jf:93:GLN:HG3	2.57	0.40
1:Jq:86:TYR:OH	1:Jt:55:ALA:O	2.31	0.40
1:Js:196:GLU:HB3	1:Js:265:ASN:ND2	2.37	0.40
1:Jv:96:GLU:O	1:Jv:100:THR:HG23	2.21	0.40
1:Jx:174:LYS:O	1:Jx:212:LYS:NZ	2.53	0.40
1:Jy:24:ILE:HG12	1:Jy:131:ASN:ND2	2.37	0.40
1:KB:86:TYR:CE2	1:On:57:PRO:HG3	2.56	0.40
1:KD:196:GLU:HB3	1:KD:265:ASN:HD22	1.86	0.40
1:KF:49:TRP:CZ3	1:KF:74:SER:HB3	2.57	0.40
1:KM:52:PHE:CE1	1:KM:71:GLY:HA3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KU:97:LYS:HE2	1:KU:97:LYS:HB3	1.94	0.40
1:KW:87:LYS:NZ	2:Lp:53:THR:O	2.38	0.40
1:KY:69:THR:HA	1:PQ:87:LYS:O	2.21	0.40
1:KZ:197:PHE:CD2	1:KZ:243:ASN:HB2	2.55	0.40
1:Kc:163:GLU:O	1:Kc:164:GLN:NE2	2.54	0.40
1:Kc:201:MET:HE3	1:Kc:201:MET:HB3	1.98	0.40
1:Ke:162:PRO:O	2:Lq:31:LEU:HD11	2.21	0.40
1:Kg:57:PRO:HG2	1:Kj:84:LEU:HD13	2.02	0.40
1:Kh:28:TRP:CZ3	1:Kh:135:LEU:HB2	2.57	0.40
1:Kh:178:ASP:OD1	1:Kh:179:LYS:N	2.53	0.40
1:Ki:226:SER:OG	1:Ky:226:SER:O	2.34	0.40
1:Kl:66:THR:OG1	4:Mh:58:LYS:NZ	2.52	0.40
1:Kq:23:PRO:HB2	1:Kq:25:MET:HG2	2.02	0.40
1:Ku:3:LEU:HD22	5:OE:198:ASN:C	2.46	0.40
1:Kv:62:ASN:ND2	2:MH:102:ASP:HB2	2.36	0.40
1:Kw:79:LEU:HD11	1:Kw:305:LEU:HB2	2.02	0.40
1:LG:175:ASP:HA	1:LG:212:LYS:NZ	2.37	0.40
1:LH:191:LEU:HD23	1:LH:191:LEU:HA	1.92	0.40
1:LI:166:LYS:HE2	1:LI:166:LYS:HB3	1.88	0.40
2:LK:156:ASN:HB3	2:LK:178:PHE:CZ	2.56	0.40
2:LO:123:LEU:HD13	2:LO:173:VAL:HG11	2.04	0.40
2:LR:69:TYR:HB2	2:LR:101:ILE:HD12	2.03	0.40
2:MM:114:THR:O	4:Mn:121:THR:HB	2.21	0.40
4:MV:37:GLU:O	4:MV:41:LYS:HD2	2.21	0.40
4:Me:113:LYS:HE3	4:Me:113:LYS:HB2	1.94	0.40
1:Oc:133:PHE:O	1:Oc:137:GLY:N	2.43	0.40
1:Of:261:ILE:HD12	1:Of:312:LEU:HD23	2.03	0.40
1:Oq:86:TYR:CE2	1:Tc:57:PRO:HG3	2.56	0.40
1:Oz:49:TRP:CZ3	1:Oz:74:SER:HB3	2.56	0.40
1:PE:79:LEU:HD23	1:PE:79:LEU:HA	1.93	0.40
1:PH:211:LEU:HD23	1:PH:211:LEU:HA	1.88	0.40
1:PL:66:THR:HG22	2:Ql:52:CYS:HB3	2.04	0.40
1:PR:66:THR:HG22	4:RS:52:ARG:HB3	2.03	0.40
1:PR:150:ARG:HE	2:Qi:82:THR:HB	1.87	0.40
1:PW:66:THR:HG22	2:Qs:52:CYS:HB3	2.04	0.40
1:PX:196:GLU:HB3	1:PX:265:ASN:HD22	1.86	0.40
1:PY:257:HIS:ND1	1:PY:318:GLN:HG3	2.35	0.40
1:Pe:39:LEU:O	1:Pe:274:SER:OG	2.22	0.40
1:Pg:31:PRO:HG3	5:Sq:218:TYR:CD1	2.57	0.40
1:Pt:101:SER:OG	1:Pt:102:ASP:N	2.55	0.40
1:Pw:158:LEU:HB3	1:Pw:260:LEU:HD21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Pw:253:ASN:OD1	1:Pw:253:ASN:N	2.55	0.40
2:QV:113:ILE:HD12	2:QV:113:ILE:HA	1.92	0.40
2:QZ:13:LYS:O	2:QZ:17:GLU:HG3	2.22	0.40
2:Qx:133:PRO:HG3	2:Qx:161:SER:HA	2.03	0.40
1:TI:96:GLU:O	1:TI:100:THR:HG23	2.21	0.40
1:TI:188:LEU:HD23	1:TI:188:LEU:HA	1.92	0.40
1:TL:260:LEU:HD23	1:TL:260:LEU:HA	1.96	0.40
1:TQ:196:GLU:OE1	1:TQ:265:ASN:ND2	2.51	0.40
1:TS:65:ASN:ND2	2:Ux:57:ASP:O	2.55	0.40
1:TS:161:MET:SD	1:TS:162:PRO:HD2	2.61	0.40
1:TY:307:THR:HG22	2:Ur:32:LEU:HB2	2.03	0.40
1:Ta:49:TRP:CZ3	1:Ta:74:SER:HB3	2.56	0.40
1:Ta:63:GLU:OE2	1:Um:292:VAL:HG11	2.22	0.40
1:Tc:24:ILE:HG12	1:Tc:131:ASN:ND2	2.37	0.40
1:Tc:217:TYR:CD1	1:Tc:233:VAL:HG21	2.56	0.40
1:Td:85:GLN:HB3	1:Tg:60:ILE:HD11	2.04	0.40
1:Tf:80:ASN:ND2	1:Tf:153:PRO:O	2.54	0.40
1:Tu:41:MET:HE3	1:Tu:82:LEU:HD12	2.02	0.40
1:Ty:174:LYS:HG3	1:Ty:175:ASP:OD1	2.21	0.40
1:Ty:255:LEU:HD23	1:Ty:255:LEU:HA	1.95	0.40
1:UA:240:ALA:HB2	1:UH:214:VAL:HG11	2.04	0.40
1:UD:49:TRP:CZ3	1:UD:74:SER:HB3	2.56	0.40
1:UF:308:ARG:O	2:VX:34:ASN:ND2	2.52	0.40
1:UG:178:ASP:OD1	1:UG:178:ASP:N	2.52	0.40
1:UJ:87:LYS:NZ	2:Vb:53:THR:O	2.32	0.40
1:UL:196:GLU:HB3	1:UL:265:ASN:ND2	2.36	0.40
1:UM:196:GLU:HB3	1:UM:265:ASN:HD22	1.86	0.40
1:UN:80:ASN:HD22	1:UN:154:ASN:HB2	1.87	0.40
1:US:175:ASP:HA	1:US:212:LYS:NZ	2.36	0.40
1:Uc:277:MET:HA	1:Uc:300:VAL:HB	2.03	0.40
2:VC:120:TYR:CE1	2:VC:174:LEU:HB2	2.56	0.40
2:VE:181:ARG:NH1	2:VF:94:LEU:HB3	2.35	0.40
2:VI:136:LYS:HD3	2:VI:181:ARG:HH12	1.85	0.40
2:VL:167:THR:HG22	2:VL:168:GLU:H	1.86	0.40
2:VS:23:LYS:HG3	2:VS:24:ASN:N	2.36	0.40
2:VX:181:ARG:HH12	2:VY:94:LEU:HB3	1.85	0.40
2:Vg:75:LEU:HD22	2:Vg:84:LEU:HD13	2.02	0.40
2:Vk:23:LYS:N	2:Vk:67:TYR:OH	2.53	0.40
4:WA:107:ASP:OD1	4:WA:108:ILE:N	2.54	0.40
4:WC:65:LEU:HD12	4:WC:92:HIS:CE1	2.57	0.40
4:WO:23:LYS:N	4:WO:67:TYR:OH	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Xx:348:LEU:HD23	6:Xx:348:LEU:HA	1.86	0.40
6:Xy:18:LEU:HD12	6:Xy:18:LEU:HA	1.89	0.40
6:Xy:192:TYR:CZ	6:Xy:194:ASP:HB2	2.56	0.40
6:YA:309:ARG:HH22	6:YG:313:GLU:HG3	1.85	0.40
5:YO:125:PHE:CE1	5:YO:159:ILE:HD13	2.55	0.40
5:YP:84:ASN:O	5:YP:88:THR:HG23	2.21	0.40
5:YQ:93:HIS:O	5:YQ:94:LEU:HD23	2.21	0.40
5:YT:140:ILE:HG22	5:YT:140:ILE:O	2.21	0.40
5:YV:94:LEU:HD11	5:YV:121:LEU:HG	2.04	0.40
5:YV:140:ILE:HG22	5:YV:140:ILE:O	2.21	0.40
5:Ym:94:LEU:HD11	5:Ym:121:LEU:HG	2.03	0.40
5:Yy:79:GLU:OE1	5:Yy:82:ARG:NH1	2.54	0.40
5:ZC:148:LEU:O	5:ZC:152:VAL:HG13	2.22	0.40
5:ZR:112:ASP:O	5:ZR:115:GLN:HG3	2.22	0.40
5:Zb:112:ASP:O	5:Zb:115:GLN:HG3	2.22	0.40
5:Zb:135:ALA:HB1	5:Zb:143:ILE:HG12	2.03	0.40
5:Zc:148:LEU:O	5:Zc:152:VAL:HG13	2.22	0.40
5:Zg:74:LYS:HA	5:Zg:74:LYS:HD3	1.91	0.40
5:Zj:135:ALA:HB1	5:Zj:143:ILE:HG12	2.03	0.40
5:Zo:86:ILE:HD11	5:Zo:118:ARG:HE	1.86	0.40
5:Zq:118:ARG:O	5:Zq:122:VAL:HG23	2.21	0.40
5:Zu:153:SER:HB2	5:Zv:133:ALA:HB1	2.03	0.40
5:Zz:112:ASP:O	5:Zz:115:GLN:HG3	2.22	0.40
5:aB:112:ASP:O	5:aB:115:GLN:HG3	2.22	0.40
5:aB:135:ALA:HB1	5:aB:143:ILE:HG12	2.03	0.40
5:aO:153:SER:HB2	5:aP:133:ALA:HB1	2.03	0.40
5:aU:153:SER:HB2	5:aV:133:ALA:HB1	2.02	0.40
5:ae:94:LEU:HD11	5:ae:121:LEU:HG	2.02	0.40
5:ap:136:LYS:HE3	5:ap:136:LYS:HB2	1.90	0.40
5:bO:86:ILE:HD11	5:bO:118:ARG:HE	1.86	0.40
5:bR:112:ASP:O	5:bR:115:GLN:HG3	2.22	0.40
5:bt:112:ASP:O	5:bt:115:GLN:HG3	2.22	0.40
5:cY:86:ILE:HD11	5:cY:118:ARG:HE	1.85	0.40
5:cY:94:LEU:HD11	5:cY:121:LEU:HG	2.03	0.40
5:ca:74:LYS:HA	5:ca:74:LYS:HD3	1.91	0.40
5:ca:86:ILE:HD11	5:ca:118:ARG:HE	1.85	0.40
5:co:55:ILE:HG21	5:dU:116:ALA:HB2	2.03	0.40
5:dF:112:ASP:O	5:dF:115:GLN:HG3	2.22	0.40
5:dH:112:ASP:O	5:dH:115:GLN:HG3	2.22	0.40
5:dV:130:GLN:OE1	5:dV:130:GLN:N	2.51	0.40
5:dZ:136:LYS:HE3	5:dZ:136:LYS:HB2	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:de:99:ASN:HB3	5:de:102:VAL:HG22	2.03	0.40
5:eA:56:ASN:HB2	5:ei:146:GLU:N	2.36	0.40
5:eC:153:SER:HB2	5:eD:133:ALA:HB1	2.02	0.40
5:eG:131:ILE:HD13	5:eG:140:ILE:HD11	2.03	0.40
5:eQ:143:ILE:HD12	5:eQ:143:ILE:HG23	1.90	0.40
5:ea:153:SER:HB2	5:eb:133:ALA:HB1	2.02	0.40
5:eu:98:PHE:CD2	5:fa:55:ILE:HD11	2.57	0.40
5:ev:135:ALA:HB1	5:ev:143:ILE:HG12	2.03	0.40
5:ex:83:ILE:HA	5:ex:114:MET:HE2	2.02	0.40
5:ez:135:ALA:HB1	5:ez:143:ILE:HG12	2.04	0.40
5:fB:112:ASP:O	5:fB:115:GLN:HG3	2.22	0.40
5:fD:112:ASP:O	5:fD:115:GLN:HG3	2.22	0.40
5:fE:153:SER:HB2	5:fF:133:ALA:HB1	2.02	0.40
5:fI:57:GLU:HA	5:fI:60:THR:HG22	2.02	0.40
5:fJ:112:ASP:O	5:fJ:115:GLN:HG3	2.22	0.40
5:fX:83:ILE:HA	5:fX:114:MET:HE2	2.02	0.40
5:fZ:135:ALA:HB1	5:fZ:143:ILE:HG12	2.03	0.40
5:fd:74:LYS:HE3	5:fe:111:LYS:HZ2	1.85	0.40
5:fh:112:ASP:O	5:fh:115:GLN:HG3	2.22	0.40
5:gD:83:ILE:HG12	5:gD:114:MET:HG3	2.03	0.40
1:AB:60:ILE:HG23	1:TJ:290:THR:HG22	2.03	0.40
1:AC:78:ARG:HH21	2:Bh:104:PHE:HE1	1.69	0.40
1:AD:255:LEU:HD23	1:AD:255:LEU:HA	1.92	0.40
1:AF:196:GLU:HB3	1:AF:265:ASN:ND2	2.35	0.40
1:AK:89:ARG:NH2	1:AK:112:LEU:HD21	2.37	0.40
1:AP:278:LEU:HD23	1:AP:278:LEU:HA	1.86	0.40
1:AS:165:ILE:HD12	1:AS:165:ILE:H	1.87	0.40
1:AT:272:LYS:N	1:AT:303:GLY:O	2.50	0.40
1:AU:57:PRO:HG3	1:Tf:86:TYR:CE2	2.56	0.40
1:AW:194:GLY:HA2	2:Gh:36:ILE:HG21	2.03	0.40
1:AZ:163:GLU:O	1:AZ:164:GLN:NE2	2.54	0.40
1:Ag:253:ASN:OD1	1:Ag:253:ASN:N	2.53	0.40
1:Ai:52:PHE:CE1	1:Ai:71:GLY:HA3	2.56	0.40
1:Ai:253:ASN:OD1	1:Ai:253:ASN:N	2.53	0.40
1:Aw:196:GLU:HB3	1:Aw:265:ASN:HD22	1.86	0.40
1:BA:86:TYR:CE1	1:BJ:57:PRO:HA	2.56	0.40
1:BB:24:ILE:HG12	1:BB:131:ASN:ND2	2.36	0.40
1:BD:211:LEU:HD23	1:BD:211:LEU:HA	1.92	0.40
1:BM:8:TYR:CD2	1:BM:93:GLN:HG3	2.57	0.40
1:BM:23:PRO:HB2	1:BM:25:MET:HG2	2.02	0.40
1:BN:175:ASP:HA	1:BN:212:LYS:NZ	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BN:244:ARG:CZ	1:BP:249:ILE:HB	2.52	0.40
1:BO:253:ASN:N	1:BO:253:ASN:OD1	2.54	0.40
1:BS:135:LEU:HD21	1:BS:255:LEU:HG	2.03	0.40
1:BW:75:GLU:OE2	1:BW:308:ARG:NH2	2.55	0.40
1:BZ:290:THR:HG22	1:GM:60:ILE:HG23	2.02	0.40
1:Ba:231:GLU:OE2	1:GM:244:ARG:NH2	2.44	0.40
1:Ba:307:THR:HG22	2:Cb:32:LEU:HB2	2.03	0.40
2:CA:140:ASN:OD1	2:CA:144:GLU:N	2.43	0.40
2:Cd:54:SER:HB2	2:Ce:58:LYS:NZ	2.37	0.40
2:Cf:59:ILE:HG22	2:Cf:111:ILE:HG12	2.04	0.40
4:Cl:37:GLU:HG3	4:Cl:39:ARG:H	1.86	0.40
4:Cx:69:TYR:CZ	4:Cx:70:LYS:HE2	2.56	0.40
4:Cy:162:ASN:HB3	4:Cy:184:PHE:CZ	2.55	0.40
4:DI:8:VAL:HG12	4:DI:12:GLN:NE2	2.36	0.40
1:Ew:13:VAL:HG11	1:Ew:281:PRO:HG2	2.03	0.40
1:Ey:178:ASP:O	1:Ey:182:GLU:HG3	2.21	0.40
1:FJ:24:ILE:HG12	1:FJ:131:ASN:ND2	2.37	0.40
1:FJ:86:TYR:CE1	1:FP:57:PRO:HA	2.57	0.40
1:FN:79:LEU:HD23	1:FN:79:LEU:HA	1.92	0.40
1:FV:77:VAL:HG11	1:FV:305:LEU:HD13	2.04	0.40
1:FV:248:TYR:CZ	5:If:223:ARG:HD3	2.57	0.40
1:Fc:164:GLN:HE22	1:Fc:308:ARG:HA	1.86	0.40
1:Fj:158:LEU:HB3	1:Fj:260:LEU:HD21	2.02	0.40
1:Fo:26:TYR:O	5:Iy:218:TYR:OH	2.38	0.40
1:Fx:41:MET:HE3	1:Fx:82:LEU:HD12	2.03	0.40
1:Fx:79:LEU:HD23	1:Fx:79:LEU:HA	1.89	0.40
1:GE:197:PHE:CD2	1:GE:243:ASN:HB2	2.56	0.40
1:GG:317:LYS:HE2	1:GG:319:SER:HB2	2.03	0.40
1:GH:178:ASP:OD1	1:GH:179:LYS:N	2.53	0.40
1:GH:277:MET:HA	1:GH:300:VAL:HB	2.03	0.40
1:GI:175:ASP:HA	1:GI:212:LYS:NZ	2.36	0.40
1:GS:188:LEU:HD23	1:GS:188:LEU:HA	1.91	0.40
1:GT:43:TYR:HB2	1:GT:78:ARG:HG2	2.03	0.40
2:Gi:145:LEU:HD23	2:Gi:145:LEU:HA	1.93	0.40
2:Gj:23:LYS:HG3	2:Gj:24:ASN:N	2.37	0.40
2:Gn:30:GLY:O	2:Gn:31:LEU:HD23	2.20	0.40
2:HV:133:PRO:HG3	2:HV:161:SER:HA	2.02	0.40
4:Ha:141:LEU:HD11	4:Ha:165:ALA:HB2	2.03	0.40
4:Hg:37:GLU:O	4:Hg:41:LYS:HD2	2.21	0.40
4:Hh:107:ASP:OD1	4:Hh:108:ILE:N	2.54	0.40
4:Hk:144:ASN:OD1	4:Hk:148:ALA:N	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Je:67:ILE:HD12	1:OT:296:TYR:HE2	1.86	0.40
1:Jh:275:LYS:HE3	1:Jh:276:TYR:CZ	2.56	0.40
1:Jj:161:MET:HG3	2:LL:31:LEU:HD21	2.04	0.40
1:Jr:86:TYR:CE2	1:Jx:57:PRO:HG3	2.57	0.40
1:Js:165:ILE:HD13	1:Js:191:LEU:HD23	2.03	0.40
1:Jv:199:THR:HG21	1:Jv:265:ASN:HB2	2.03	0.40
1:Jw:41:MET:HG2	2:LX:104:PHE:HE2	1.86	0.40
1:KB:85:GLN:HB3	1:On:60:ILE:HD11	2.04	0.40
1:KE:41:MET:HE2	1:KE:82:LEU:HD12	2.03	0.40
1:KG:196:GLU:HB3	1:KG:265:ASN:ND2	2.35	0.40
1:KK:307:THR:HG22	3:MN:77:PHE:HB2	2.03	0.40
1:KX:150:ARG:HE	2:Lp:63:PRO:HB3	1.85	0.40
1:KY:24:ILE:HG12	1:KY:131:ASN:ND2	2.36	0.40
1:Kc:282:ASN:OD1	1:Kc:283:GLU:N	2.54	0.40
1:Kf:13:VAL:HG13	1:Kf:119:TYR:CE2	2.56	0.40
1:Kj:16:ILE:HD11	1:Kj:120:LYS:HE3	2.03	0.40
1:Km:41:MET:HE3	1:Km:82:LEU:HD12	2.03	0.40
1:Kr:31:PRO:HG3	5:OB:218:TYR:CD1	2.57	0.40
1:Ks:263:PRO:HG3	1:Ks:268:LEU:HD12	2.04	0.40
1:Kt:277:MET:HA	1:Kt:300:VAL:HB	2.03	0.40
1:Kv:80:ASN:C	1:Kv:81:TYR:HD1	2.29	0.40
1:Kw:91:LEU:HD21	1:Kw:112:LEU:HD13	2.04	0.40
1:LA:178:ASP:OD1	1:LA:178:ASP:N	2.55	0.40
1:LE:259:ILE:HB	1:LE:314:VAL:HB	2.02	0.40
2:LM:23:LYS:N	2:LM:67:TYR:OH	2.54	0.40
2:Lm:181:ARG:NH2	2:Ln:94:LEU:O	2.43	0.40
2:Ls:156:ASN:HB3	2:Ls:178:PHE:CE2	2.57	0.40
2:Ly:165:LYS:HB2	2:Ly:171:PHE:CE2	2.55	0.40
2:MB:123:LEU:HD21	2:MB:131:VAL:HG21	2.03	0.40
2:MK:116:ASN:HB3	4:Mm:58:LYS:HE3	2.03	0.40
4:MT:171:GLN:HE21	4:MT:174:ASN:HA	1.86	0.40
4:MV:120:ILE:HD12	4:MV:120:ILE:HA	1.95	0.40
4:Ma:37:GLU:O	4:Ma:41:LYS:HD2	2.21	0.40
4:Mb:69:TYR:CZ	4:Mb:70:LYS:HE2	2.56	0.40
4:Mf:107:ASP:OD1	4:Mf:108:ILE:N	2.54	0.40
1:OT:96:GLU:O	1:OT:100:THR:HG23	2.21	0.40
1:OX:157:GLY:N	1:OX:160:ASN:OD1	2.43	0.40
1:OY:161:MET:HG3	2:QA:31:LEU:HD21	2.04	0.40
1:Oi:196:GLU:HB3	1:Oi:265:ASN:ND2	2.37	0.40
1:Ok:199:THR:HG21	1:Ok:265:ASN:HB2	2.03	0.40
1:Ol:63:GLU:OE2	1:Px:292:VAL:HG11	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ol:195:ASP:OD2	1:Os:21:LYS:NZ	2.43	0.40
1:Ol:197:PHE:CD2	1:Ol:243:ASN:HB2	2.56	0.40
1:Om:239:LYS:HA	1:Om:242:ASN:OD1	2.21	0.40
1:On:86:TYR:CE1	1:Ot:57:PRO:HA	2.57	0.40
1:On:137:GLY:HA3	1:On:160:ASN:OD1	2.21	0.40
1:On:272:LYS:N	1:On:303:GLY:O	2.46	0.40
1:Oy:13:VAL:HG11	1:Oy:281:PRO:HG2	2.03	0.40
1:Oz:84:LEU:HB3	1:PC:57:PRO:HB2	2.04	0.40
1:PD:196:GLU:HB3	1:PD:265:ASN:ND2	2.37	0.40
1:PM:211:LEU:HD23	1:PM:211:LEU:HA	1.88	0.40
1:PN:84:LEU:HD13	1:PT:57:PRO:HB2	2.03	0.40
1:Pc:278:LEU:HD23	1:Pc:278:LEU:HA	1.85	0.40
1:Pg:244:ARG:CZ	1:Pi:249:ILE:HB	2.52	0.40
1:Ph:178:ASP:OD1	1:Ph:178:ASP:N	2.52	0.40
1:Pl:277:MET:HA	1:Pl:300:VAL:HB	2.04	0.40
1:Pm:26:TYR:O	5:Sw:218:TYR:OH	2.35	0.40
1:Pn:27:LYS:O	5:Sx:223:ARG:NH2	2.48	0.40
1:Pn:89:ARG:NH2	1:Pn:112:LEU:HD21	2.36	0.40
1:Pp:13:VAL:HA	1:Pp:16:ILE:HG22	2.02	0.40
1:Pt:307:THR:HG22	2:Qu:32:LEU:HB2	2.03	0.40
2:QG:69:TYR:HB2	2:QG:101:ILE:HD12	2.03	0.40
2:QS:181:ARG:HG2	2:QS:182:ALA:H	1.87	0.40
2:Qd:160:LEU:HD11	2:Qd:176:SER:HB2	2.02	0.40
2:Qk:114:THR:O	2:Ql:114:THR:HB	2.20	0.40
2:Qm:125:LYS:NZ	2:Qm:169:ASP:OD1	2.51	0.40
2:Qr:75:LEU:HD22	2:Qr:84:LEU:HD13	2.02	0.40
2:Qw:181:ARG:NH1	2:Qx:94:LEU:O	2.48	0.40
2:RB:120:TYR:CE1	2:RB:174:LEU:HB2	2.57	0.40
4:RO:22:MET:HE1	4:RO:67:TYR:CE1	2.57	0.40
4:RR:144:ASN:OD1	4:RR:148:ALA:N	2.54	0.40
4:RR:162:ASN:HB3	4:RR:184:PHE:CZ	2.55	0.40
4:RW:107:ASP:OD1	4:RW:108:ILE:N	2.54	0.40
4:Rb:8:VAL:HG12	4:Rb:12:GLN:NE2	2.36	0.40
1:TL:275:LYS:HE3	1:TL:276:TYR:CZ	2.56	0.40
1:TV:57:PRO:HA	1:TZ:86:TYR:CE1	2.53	0.40
1:TW:196:GLU:HB3	1:TW:265:ASN:ND2	2.37	0.40
1:TW:197:PHE:H	1:TW:197:PHE:HD1	1.69	0.40
1:TW:201:MET:HE3	1:TW:201:MET:HB3	1.92	0.40
1:Ta:67:ILE:HG13	1:Th:296:TYR:HE2	1.86	0.40
1:Tb:286:ASP:HB2	1:Tb:294:HIS:HB2	2.01	0.40
1:Tj:13:VAL:HG11	1:Tj:281:PRO:HG2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Tq:26:TYR:O	5:XA:218:TYR:OH	2.28	0.40
1:Ty:108:ILE:HD12	1:Ty:108:ILE:H	1.87	0.40
1:UE:196:GLU:HB3	1:UE:265:ASN:HD22	1.86	0.40
1:UG:150:ARG:HE	2:VX:82:THR:HB	1.87	0.40
1:UJ:201:MET:HE3	1:UJ:201:MET:HB3	1.96	0.40
1:UK:45:LYS:NZ	4:WL:28:ASP:OD2	2.45	0.40
1:UP:25:MET:HE1	1:UP:130:ILE:HG22	2.03	0.40
1:UT:41:MET:HE2	1:UT:83:LYS:H	1.87	0.40
1:UZ:80:ASN:C	1:UZ:81:TYR:HD1	2.29	0.40
1:Ua:211:LEU:HD23	1:Ua:211:LEU:HA	1.91	0.40
1:Ud:31:PRO:HG3	5:Xn:218:TYR:CD1	2.56	0.40
1:Ue:75:GLU:OE2	1:Ue:308:ARG:NH2	2.55	0.40
1:Uk:211:LEU:O	1:Uk:214:VAL:HG22	2.22	0.40
2:Uq:23:LYS:HE3	2:Uq:23:LYS:HB2	1.93	0.40
2:Uw:120:TYR:CE1	2:Uw:174:LEU:HB2	2.55	0.40
2:VK:160:LEU:HD11	2:VK:176:SER:OG	2.22	0.40
2:VS:137:LEU:HD11	2:VS:159:ALA:HB2	2.02	0.40
2:Vn:181:ARG:NH1	2:Vo:94:LEU:HB3	2.29	0.40
4:Vt:141:LEU:HD11	4:Vt:165:ALA:HB2	2.03	0.40
4:Vz:144:ASN:HD21	4:Vz:148:ALA:HB3	1.86	0.40
4:WM:8:VAL:HG12	4:WM:12:GLN:NE2	2.36	0.40
4:WM:161:ILE:HA	4:WM:186:ASN:HA	2.01	0.40
6:Xy:241:ASP:O	6:Xy:245:LEU:HG	2.21	0.40
6:YI:94:GLN:HB2	5:YJ:162:ARG:HH21	1.87	0.40
5:YK:99:ASN:O	5:YK:103:LEU:HG	2.20	0.40
5:YM:110:LEU:O	5:YM:114:MET:HG2	2.22	0.40
5:YR:66:VAL:HG11	5:Yj:143:ILE:HG12	2.03	0.40
5:YR:82:ARG:O	5:YR:86:ILE:HG12	2.21	0.40
5:YR:140:ILE:HG22	5:YR:140:ILE:O	2.21	0.40
5:Ya:79:GLU:O	5:Ya:83:ILE:HG12	2.21	0.40
5:Yg:56:ASN:HA	5:Yg:59:ILE:HB	2.03	0.40
5:Yk:163:LYS:HE3	5:Yk:163:LYS:HB2	1.93	0.40
5:Yo:57:GLU:HA	5:Yo:60:THR:HG22	2.03	0.40
5:Yp:112:ASP:O	5:Yp:115:GLN:HG3	2.22	0.40
5:Yq:74:LYS:HA	5:Yq:74:LYS:HD3	1.90	0.40
5:Yq:148:LEU:O	5:Yq:152:VAL:HG13	2.21	0.40
5:ZB:83:ILE:HA	5:ZB:114:MET:HE2	2.03	0.40
5:ZG:54:SER:HB3	5:ZG:56:ASN:OD1	2.20	0.40
5:ZH:128:ILE:HA	5:ZH:131:ILE:HD12	2.03	0.40
5:ZT:143:ILE:HD12	5:ZT:143:ILE:HA	1.92	0.40
5:ZV:135:ALA:HB1	5:ZV:143:ILE:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:ZZ:112:ASP:O	5:ZZ:115:GLN:HG3	2.22	0.40
5:Zq:95:SER:OG	5:Zq:96:ASN:N	2.54	0.40
5:Zx:136:LYS:HE3	5:Zx:136:LYS:HB2	1.90	0.40
5:Zx:143:ILE:HD12	5:Zx:143:ILE:HA	1.92	0.40
5:aC:99:ASN:HB3	5:aC:102:VAL:HG22	2.03	0.40
5:aE:94:LEU:HD11	5:aE:121:LEU:HG	2.02	0.40
5:aK:55:ILE:HG21	5:aq:116:ALA:HB2	2.03	0.40
5:aP:135:ALA:HB1	5:aP:143:ILE:HG12	2.02	0.40
5:aW:153:SER:HB2	5:aX:133:ALA:HB1	2.02	0.40
5:ab:112:ASP:OD1	5:ab:115:GLN:NE2	2.49	0.40
5:ag:76:LEU:HD21	5:aj:76:LEU:HD22	2.03	0.40
5:ax:135:ALA:HB1	5:ax:143:ILE:HG12	2.02	0.40
5:bK:76:LEU:HD21	5:bN:76:LEU:HD22	2.03	0.40
5:bP:112:ASP:O	5:bP:115:GLN:HG3	2.22	0.40
5:bc:55:ILE:HD13	5:cI:116:ALA:HB1	2.02	0.40
5:by:153:SER:HB2	5:bz:133:ALA:HB1	2.01	0.40
5:bz:112:ASP:O	5:bz:115:GLN:HG3	2.22	0.40
5:cV:112:ASP:O	5:cV:115:GLN:HG3	2.22	0.40
5:cW:94:LEU:HD11	5:cW:121:LEU:HG	2.03	0.40
5:cZ:112:ASP:O	5:cZ:115:GLN:HG3	2.22	0.40
5:cm:111:LYS:HZ2	5:cp:74:LYS:HE3	1.86	0.40
5:cq:99:ASN:O	5:cq:103:LEU:HG	2.22	0.40
5:dS:153:SER:HB2	5:dT:133:ALA:HB1	2.02	0.40
5:dU:153:SER:HB2	5:dV:133:ALA:HB1	2.02	0.40
5:dd:112:ASP:O	5:dd:115:GLN:HG3	2.21	0.40
5:dh:112:ASP:O	5:dh:115:GLN:HG3	2.22	0.40
5:di:153:SER:HB2	5:dj:133:ALA:HB1	2.03	0.40
5:dw:54:SER:HB3	5:dw:56:ASN:OD1	2.21	0.40
5:dw:56:ASN:HB2	5:ee:146:GLU:N	2.35	0.40
5:eE:143:ILE:HD12	5:eE:143:ILE:HG23	1.80	0.40
5:eP:83:ILE:HA	5:eP:114:MET:HE2	2.03	0.40
5:eZ:112:ASP:O	5:eZ:115:GLN:HG3	2.22	0.40
5:eb:112:ASP:O	5:eb:115:GLN:HG3	2.22	0.40
5:eb:143:ILE:HD12	5:eb:143:ILE:HA	1.92	0.40
5:ed:143:ILE:HD12	5:ed:143:ILE:HA	1.92	0.40
5:ee:118:ARG:O	5:ee:122:VAL:HG23	2.21	0.40
5:em:140:ILE:O	5:em:140:ILE:HG22	2.22	0.40
5:ep:130:GLN:OE1	5:ep:130:GLN:N	2.51	0.40
5:er:83:ILE:HA	5:er:114:MET:HE2	2.02	0.40
5:ex:112:ASP:O	5:ex:115:GLN:HG3	2.21	0.40
5:fD:83:ILE:HA	5:fD:114:MET:HE2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:fH:112:ASP:O	5:fH:115:GLN:HG3	2.22	0.40
5:fJ:143:ILE:HD12	5:fJ:143:ILE:HA	1.92	0.40
5:fM:57:GLU:HA	5:fM:60:THR:HG22	2.02	0.40
5:fR:83:ILE:HG12	5:fR:114:MET:HG3	2.04	0.40
5:fT:83:ILE:HG12	5:fT:114:MET:HG3	2.04	0.40
5:fW:98:PHE:CD2	5:gC:55:ILE:HD11	2.57	0.40
5:fZ:83:ILE:HA	5:fZ:114:MET:HE2	2.03	0.40
5:fb:83:ILE:HA	5:fb:114:MET:HE2	2.03	0.40
5:ff:83:ILE:HA	5:ff:114:MET:HE2	2.02	0.40
5:ff:112:ASP:O	5:ff:115:GLN:HG3	2.21	0.40
5:fn:143:ILE:HD12	5:fn:143:ILE:HA	1.92	0.40
5:fr:112:ASP:O	5:fr:115:GLN:HG3	2.22	0.40
5:gC:57:GLU:HA	5:gC:60:THR:HG22	2.03	0.40
1:AC:47:VAL:HG22	1:AC:76:VAL:HG22	2.04	0.40
1:AE:196:GLU:HB3	1:AE:265:ASN:ND2	2.36	0.40
1:AK:174:LYS:HE2	1:AK:318:GLN:HG2	2.03	0.40
1:AK:218:ALA:HA	1:AK:224:ALA:HA	2.02	0.40
1:AO:165:ILE:HD13	1:AO:191:LEU:HD23	2.03	0.40
1:AS:41:MET:HG2	2:Bt:104:PHE:HE2	1.86	0.40
1:AY:87:LYS:O	1:AZ:69:THR:HA	2.22	0.40
1:AZ:77:VAL:HG13	4:Cr:29:ALA:O	2.21	0.40
1:Ai:50:ASP:HB3	1:Ai:73:SER:OG	2.21	0.40
1:Aq:17:ILE:HD12	1:Aq:17:ILE:HA	1.99	0.40
1:Ar:41:MET:HE3	1:Ar:83:LYS:HB3	2.04	0.40
1:Ar:49:TRP:CZ3	1:Ar:74:SER:HB3	2.56	0.40
1:Ar:201:MET:HE3	1:Ar:201:MET:HB3	1.94	0.40
1:Av:79:LEU:HD23	1:Av:79:LEU:HA	1.94	0.40
1:Az:48:LYS:HD2	4:DA:32:LEU:HD22	2.03	0.40
1:BF:55:ALA:HA	1:BT:141:ILE:HD13	2.03	0.40
1:BF:80:ASN:HD22	1:BF:154:ASN:HB2	1.87	0.40
1:BH:178:ASP:OD1	1:BH:178:ASP:N	2.55	0.40
1:BK:80:ASN:HB2	1:BK:155:MET:HG3	2.04	0.40
1:BM:159:LEU:HD11	1:BM:255:LEU:HD21	2.04	0.40
1:BO:205:VAL:HG12	1:BO:259:ILE:HG23	2.04	0.40
1:BP:197:PHE:CD2	1:BP:243:ASN:HB2	2.56	0.40
1:BP:272:LYS:N	1:BP:303:GLY:O	2.45	0.40
1:BR:317:LYS:HE2	1:BR:319:SER:HB2	2.03	0.40
1:BT:175:ASP:HA	1:BT:212:LYS:NZ	2.36	0.40
1:BY:13:VAL:HA	1:BY:16:ILE:HG22	2.02	0.40
1:BZ:194:GLY:HA3	2:Bx:36:ILE:HD12	2.02	0.40
1:Bc:57:PRO:HB2	1:Be:84:LEU:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bc:162:PRO:O	4:Cs:31:LEU:HD11	2.21	0.40
1:Bc:175:ASP:HA	1:Bc:212:LYS:NZ	2.37	0.40
1:Bd:175:ASP:HA	1:Bd:212:LYS:NZ	2.37	0.40
2:Bs:36:ILE:HG21	1:Te:194:GLY:HA2	2.03	0.40
2:Bx:134:GLY:HA2	4:Cr:77:ILE:HD13	2.04	0.40
2:CH:57:ASP:HA	2:CH:115:ASN:HD21	1.87	0.40
2:CK:23:LYS:HG3	2:CK:24:ASN:N	2.36	0.40
2:CL:59:ILE:HG13	1:Fl:65:ASN:HD21	1.86	0.40
2:CY:56:LYS:HD2	4:DE:56:PHE:HD1	1.87	0.40
4:Cv:22:MET:HE1	4:Cv:67:TYR:CE1	2.57	0.40
1:Ez:65:ASN:ND2	2:Ge:57:ASP:O	2.55	0.40
1:Ez:174:LYS:HE2	1:Ez:318:GLN:HG2	2.03	0.40
1:FD:196:GLU:HB3	1:FD:265:ASN:ND2	2.37	0.40
1:FH:67:ILE:HG13	1:FO:296:TYR:HE2	1.86	0.40
1:FJ:217:TYR:CD1	1:FJ:233:VAL:HG21	2.56	0.40
1:FK:259:ILE:HB	1:FK:314:VAL:HB	2.04	0.40
1:FN:49:TRP:CZ3	1:FN:74:SER:HB3	2.56	0.40
1:Fd:57:PRO:HG2	1:Fh:84:LEU:HD13	2.04	0.40
1:Fe:81:TYR:OH	1:Fe:272:LYS:O	2.27	0.40
1:Fe:191:LEU:HD23	1:Fe:191:LEU:HA	1.94	0.40
1:Fp:86:TYR:CE1	1:Fy:57:PRO:HA	2.56	0.40
1:Fq:33:GLN:NE2	1:Fq:269:ILE:O	2.38	0.40
1:Fr:67:ILE:HG13	1:Fu:296:TYR:HE2	1.86	0.40
1:Fv:8:TYR:CD2	1:Fv:93:GLN:HG3	2.56	0.40
1:GA:41:MET:HE2	1:GA:83:LYS:H	1.86	0.40
1:GC:244:ARG:CZ	1:GE:249:ILE:HB	2.52	0.40
1:GC:317:LYS:HE2	1:GC:319:SER:HB2	2.03	0.40
1:GE:307:THR:HG22	2:HM:32:LEU:HB2	2.03	0.40
1:GF:188:LEU:HD23	1:GF:188:LEU:HA	1.92	0.40
1:GK:174:LYS:O	1:GK:212:LYS:NZ	2.55	0.40
1:GM:178:ASP:OD1	1:GM:178:ASP:N	2.52	0.40
1:GN:26:TYR:O	5:JX:218:TYR:OH	2.37	0.40
2:Ge:22:MET:HB3	2:Ge:26:GLN:HG2	2.03	0.40
2:Gp:165:LYS:HE3	2:Gp:168:GLU:HA	2.03	0.40
2:Gv:13:LYS:O	2:Gv:17:GLU:HG3	2.22	0.40
2:HD:156:ASN:HB3	2:HD:178:PHE:CE2	2.57	0.40
2:HD:167:THR:HG22	2:HD:168:GLU:N	2.36	0.40
2:HP:75:LEU:HD22	2:HP:84:LEU:HD13	2.03	0.40
2:HQ:181:ARG:NH1	2:HR:94:LEU:HB3	2.35	0.40
2:HT:133:PRO:HG3	2:HT:161:SER:HA	2.03	0.40
4:Hb:140:LYS:HD3	4:Hb:161:ILE:HG21	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Hh:57:ASP:HA	4:Hh:122:ASN:HD21	1.87	0.40
4:Hl:37:GLU:O	4:Hl:41:LYS:HD2	2.21	0.40
4:Hm:69:TYR:CZ	4:Hm:70:LYS:HE2	2.56	0.40
4:Hn:144:ASN:OD1	4:Hn:148:ALA:N	2.53	0.40
1:Jn:121:LEU:HB3	1:Jq:51:ALA:HB2	2.02	0.40
1:Jo:296:TYR:HE2	1:Jz:67:ILE:HG13	1.85	0.40
1:Jt:196:GLU:HB3	1:Jt:265:ASN:ND2	2.37	0.40
1:Jw:57:PRO:HB2	1:KD:84:LEU:HD13	2.04	0.40
1:Jy:137:GLY:HA3	1:Jy:160:ASN:OD1	2.21	0.40
1:Jy:201:MET:HE3	1:Jy:201:MET:HB3	2.00	0.40
1:KA:197:PHE:CE2	1:KA:243:ASN:HB2	2.56	0.40
1:KA:268:LEU:O	1:KA:307:THR:HG23	2.21	0.40
1:KC:49:TRP:CZ3	1:KC:74:SER:HB3	2.57	0.40
1:KF:87:LYS:HG3	1:KF:296:TYR:CE2	2.56	0.40
1:KG:79:LEU:HD23	1:KG:79:LEU:HA	1.92	0.40
1:KK:248:TYR:CZ	5:NU:223:ARG:HD3	2.57	0.40
1:KL:96:GLU:O	1:KL:100:THR:HG23	2.22	0.40
1:KL:133:PHE:O	1:KL:137:GLY:N	2.49	0.40
1:Ka:196:GLU:HB3	1:Ka:265:ASN:HD22	1.86	0.40
1:Kd:307:THR:HG22	4:Me:32:LEU:HB2	2.03	0.40
1:Kg:67:ILE:HG13	1:Kj:296:TYR:HE2	1.86	0.40
1:Kq:52:PHE:CZ	1:Kq:71:GLY:HA3	2.57	0.40
1:Kq:159:LEU:HD11	1:Kq:255:LEU:HD21	2.04	0.40
1:Ku:195:ASP:OD2	1:PV:21:LYS:NZ	2.52	0.40
1:Kv:196:GLU:HB3	1:Kv:265:ASN:HD22	1.86	0.40
1:Kv:255:LEU:HD23	1:Kv:255:LEU:HA	1.93	0.40
1:Ky:255:LEU:HD23	1:Ky:255:LEU:HA	1.92	0.40
1:Kz:174:LYS:O	1:Kz:212:LYS:NZ	2.55	0.40
1:LD:255:LEU:HD23	1:LD:255:LEU:HA	1.90	0.40
1:LE:96:GLU:O	1:LE:100:THR:HG23	2.21	0.40
1:LG:260:LEU:HA	1:LG:260:LEU:HD23	1.85	0.40
1:LI:148:GLN:HG3	2:Lc:81:THR:O	2.22	0.40
2:LS:167:THR:HG22	2:LS:168:GLU:H	1.86	0.40
2:LT:22:MET:HB3	2:LT:26:GLN:HG2	2.03	0.40
2:LW:101:ILE:HD12	2:LW:107:MET:O	2.21	0.40
2:Li:28:ASP:OD1	2:Li:28:ASP:N	2.53	0.40
2:Lk:156:ASN:HB3	2:Lk:178:PHE:CD2	2.57	0.40
2:MC:129:ASN:OD1	2:MC:130:GLY:N	2.55	0.40
2:MC:140:ASN:HD21	2:MC:144:GLU:HB2	1.86	0.40
2:MK:165:LYS:HB2	2:MK:171:PHE:CE2	2.55	0.40
4:MY:65:LEU:HD12	4:MY:92:HIS:CE1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Mh:107:ASP:OD1	4:Mh:108:ILE:N	2.54	0.40
4:Mm:8:VAL:HG12	4:Mm:12:GLN:NE2	2.36	0.40
1:OT:112:LEU:HD12	1:OT:112:LEU:HA	1.92	0.40
1:OV:43:TYR:CE1	1:OV:45:LYS:HE3	2.57	0.40
1:OZ:31:PRO:HG3	5:Rj:218:TYR:CG	2.57	0.40
1:Oe:67:ILE:HG13	1:Op:296:TYR:HE2	1.84	0.40
1:Of:31:PRO:HG3	5:Rp:218:TYR:CG	2.56	0.40
1:Og:49:TRP:CE3	1:Og:74:SER:HB3	2.57	0.40
1:Og:80:ASN:ND2	1:Og:154:ASN:HB2	2.37	0.40
1:Oh:165:ILE:HD13	1:Oh:191:LEU:HD23	2.03	0.40
1:Ol:43:TYR:HE2	1:Ol:45:LYS:HE2	1.86	0.40
1:Ox:59:THR:O	2:QW:61:ASN:ND2	2.54	0.40
1:PJ:108:ILE:HD12	1:PJ:108:ILE:H	1.86	0.40
1:PK:275:LYS:HE3	1:PK:275:LYS:HB2	1.87	0.40
1:PP:201:MET:HE3	1:PP:201:MET:HB3	1.91	0.40
1:PU:33:GLN:NE2	1:PU:269:ILE:O	2.38	0.40
1:PX:197:PHE:CE2	1:PX:243:ASN:HB2	2.57	0.40
1:PX:226:SER:OG	1:Pn:226:SER:O	2.34	0.40
1:PY:55:ALA:HA	1:Pm:141:ILE:HD13	2.03	0.40
1:Pb:260:LEU:HD23	1:Pb:260:LEU:HA	1.90	0.40
1:Pe:59:THR:O	2:Qn:61:ASN:ND2	2.55	0.40
1:Ph:82:LEU:HD12	1:Ph:82:LEU:HA	1.94	0.40
1:Pw:77:VAL:HA	2:RB:29:SER:O	2.21	0.40
2:QD:123:LEU:HD13	2:QD:173:VAL:HG11	2.04	0.40
2:QG:156:ASN:HB3	2:QG:178:PHE:CE2	2.57	0.40
2:QH:120:TYR:CE1	2:QH:174:LEU:HB2	2.55	0.40
2:QH:167:THR:HG22	2:QH:168:GLU:H	1.86	0.40
2:QO:141:GLN:H	2:QO:141:GLN:HG3	1.74	0.40
2:QQ:125:LYS:HD2	2:QQ:169:ASP:HA	2.03	0.40
2:QT:165:LYS:HE3	2:QT:168:GLU:HA	2.03	0.40
2:Qi:167:THR:HG22	2:Qi:168:GLU:N	2.36	0.40
2:Qn:69:TYR:HB2	2:Qn:101:ILE:HD12	2.02	0.40
2:Qz:165:LYS:HB2	2:Qz:171:PHE:CE2	2.55	0.40
3:RC:140:ASP:OD1	3:RC:140:ASP:N	2.53	0.40
4:RL:35:SER:O	4:RL:41:LYS:HD2	2.21	0.40
4:RL:57:ASP:HA	4:RL:122:ASN:HD21	1.87	0.40
4:RQ:69:TYR:CZ	4:RQ:70:LYS:HE2	2.56	0.40
1:TN:41:MET:HE3	1:TN:82:LEU:HD12	2.04	0.40
1:TO:31:PRO:HG3	5:WY:218:TYR:CG	2.57	0.40
1:TT:169:VAL:HG22	1:TT:183:LYS:HG3	2.02	0.40
1:TV:86:TYR:CE2	1:Tb:57:PRO:HG3	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TV:163:GLU:O	1:TV:164:GLN:NE2	2.55	0.40
1:Ta:41:MET:HG2	2:VB:104:PHE:HE2	1.86	0.40
1:Tb:162:PRO:HG2	2:Ux:31:LEU:HD11	2.03	0.40
1:Tg:157:GLY:N	1:Tg:160:ASN:OD1	2.42	0.40
1:Th:177:MET:SD	1:Th:180:ILE:HD12	2.62	0.40
1:Tq:50:ASP:HB3	1:Tq:73:SER:OG	2.21	0.40
1:Tu:213:LEU:HD23	1:Tu:213:LEU:HA	1.93	0.40
1:UE:152:LEU:HD21	2:VW:105:SER:HA	2.04	0.40
1:UK:255:LEU:HD23	1:UK:255:LEU:HA	1.91	0.40
1:UL:28:TRP:CZ3	1:UL:135:LEU:HB2	2.57	0.40
1:UN:16:ILE:HD11	1:UN:120:LYS:HE3	2.03	0.40
1:UN:55:ALA:HA	1:Ub:141:ILE:HD13	2.03	0.40
1:US:80:ASN:HB2	1:US:155:MET:HG3	2.03	0.40
1:UW:158:LEU:HB3	1:UW:260:LEU:HD21	2.02	0.40
1:UX:307:THR:HG22	2:Vf:32:LEU:HB2	2.03	0.40
1:Ui:87:LYS:NZ	4:WR:53:THR:O	2.39	0.40
1:Uj:121:LEU:O	1:Uj:125:GLU:HG2	2.21	0.40
1:Um:43:TYR:HB2	1:Um:78:ARG:HG2	2.03	0.40
2:Ut:140:ASN:ND2	2:Ut:144:GLU:HB2	2.36	0.40
2:VG:180:ASN:O	2:VH:180:ASN:ND2	2.41	0.40
2:VR:100:ASP:HB3	2:VR:109:THR:HB	2.03	0.40
2:VS:120:TYR:CE1	2:VS:174:LEU:HB2	2.57	0.40
2:VW:167:THR:HG22	2:VW:168:GLU:N	2.36	0.40
2:VZ:137:LEU:HD11	2:VZ:159:ALA:HB2	2.03	0.40
2:Vf:75:LEU:HD23	2:Vf:75:LEU:HA	1.90	0.40
2:Vi:75:LEU:HD22	2:Vi:84:LEU:HD13	2.03	0.40
2:Vk:133:PRO:HG3	2:Vk:161:SER:HA	2.02	0.40
2:Vm:133:PRO:HG3	2:Vm:161:SER:HA	2.03	0.40
2:Vq:120:TYR:CE1	2:Vq:174:LEU:HB2	2.57	0.40
4:WE:37:GLU:O	4:WE:41:LYS:HD2	2.21	0.40
4:WN:78:GLN:HB2	4:WN:88:HIS:CE1	2.56	0.40
6:Xx:370:VAL:HG13	6:YG:379:LEU:HD22	2.02	0.40
6:Xy:201:GLN:OE1	6:Xy:248:LEU:HD22	2.21	0.40
6:YD:252:LEU:O	6:YD:256:LEU:HG	2.21	0.40
6:YF:366:GLU:O	6:YF:370:VAL:HG23	2.21	0.40
6:YG:366:GLU:O	6:YG:370:VAL:HG23	2.21	0.40
6:YH:374:ILE:HG13	6:YI:379:LEU:HD13	2.03	0.40
5:YJ:88:THR:HA	5:YJ:91:LYS:HD2	2.03	0.40
5:YM:127:PRO:O	5:YM:131:ILE:HG13	2.22	0.40
5:YU:70:GLU:O	5:YU:74:LYS:HG2	2.21	0.40
5:YV:73:GLU:OE1	5:YV:74:LYS:NZ	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Yf:136:LYS:HB2	5:Yf:136:LYS:HE3	1.81	0.40
5:ZG:56:ASN:ND2	5:Za:141:SER:HB3	2.36	0.40
5:ZP:144:ASP:OD1	5:ZP:144:ASP:N	2.54	0.40
5:Zq:76:LEU:HD21	5:Zt:76:LEU:HD22	2.04	0.40
5:Zw:57:GLU:HA	5:Zw:60:THR:HG22	2.02	0.40
5:aD:112:ASP:O	5:aD:115:GLN:HG3	2.22	0.40
5:aE:153:SER:HB2	5:aF:133:ALA:HB1	2.03	0.40
5:aM:55:ILE:HG21	5:as:116:ALA:HB2	2.02	0.40
5:aM:111:LYS:HZ1	5:aP:74:LYS:HE3	1.85	0.40
5:aS:153:SER:HB2	5:aT:133:ALA:HB1	2.02	0.40
5:ak:111:LYS:HZ2	5:an:74:LYS:HE3	1.86	0.40
5:am:62:GLU:OE1	5:bS:97:HIS:NE2	2.55	0.40
5:bJ:76:LEU:HD22	5:bm:76:LEU:HD21	2.03	0.40
5:bO:76:LEU:HD21	5:bR:76:LEU:HD22	2.04	0.40
5:ba:111:LYS:HZ2	5:bd:74:LYS:HE3	1.84	0.40
5:bn:112:ASP:O	5:bn:115:GLN:HG3	2.22	0.40
5:bp:112:ASP:O	5:bp:115:GLN:HG3	2.22	0.40
5:br:135:ALA:HB1	5:br:143:ILE:HG12	2.03	0.40
5:bs:76:LEU:HD21	5:bv:76:LEU:HD22	2.03	0.40
5:bv:112:ASP:O	5:bv:115:GLN:HG3	2.22	0.40
5:bw:94:LEU:HD11	5:bw:121:LEU:HG	2.02	0.40
5:cG:99:ASN:O	5:cG:103:LEU:HG	2.22	0.40
5:cR:136:LYS:HB2	5:cR:136:LYS:HE3	1.90	0.40
5:cX:112:ASP:O	5:cX:115:GLN:HG3	2.22	0.40
5:cm:94:LEU:HD11	5:cm:121:LEU:HG	2.03	0.40
5:cw:99:ASN:O	5:cw:103:LEU:HG	2.21	0.40
5:dA:153:SER:HB2	5:dB:133:ALA:HB1	2.03	0.40
5:dB:135:ALA:HB1	5:dB:143:ILE:HG12	2.03	0.40
5:dC:153:SER:HB2	5:dD:133:ALA:HB1	2.04	0.40
5:dU:76:LEU:HD21	5:dX:76:LEU:HD22	2.04	0.40
5:de:55:ILE:HD13	5:eK:116:ALA:HB1	2.03	0.40
5:dg:56:ASN:HD22	5:eO:145:GLY:HA3	1.85	0.40
5:di:63:LEU:HD11	5:eR:136:LYS:HD2	2.03	0.40
5:do:68:GLU:O	5:do:72:ILE:HG13	2.21	0.40
5:dw:140:ILE:HG22	5:dw:140:ILE:O	2.22	0.40
5:eG:55:ILE:HG23	5:eo:147:ILE:HB	2.03	0.40
5:eI:143:ILE:HD12	5:eI:143:ILE:HG23	1.79	0.40
5:eI:153:SER:HB2	5:eJ:133:ALA:HB1	2.02	0.40
5:eJ:146:GLU:CD	5:eq:58:ARG:HH21	2.29	0.40
5:eL:112:ASP:O	5:eL:115:GLN:HG3	2.22	0.40
5:eN:83:ILE:HA	5:eN:114:MET:HE2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:eN:143:ILE:HD12	5:eN:143:ILE:HA	1.92	0.40
5:eP:136:LYS:HE3	5:eP:136:LYS:HB2	1.73	0.40
5:eX:112:ASP:O	5:eX:115:GLN:HG3	2.22	0.40
5:eh:83:ILE:HA	5:eh:114:MET:HE2	2.03	0.40
5:ev:83:ILE:HA	5:ev:114:MET:HE2	2.03	0.40
5:ez:112:ASP:O	5:ez:115:GLN:HG3	2.22	0.40
5:fL:136:LYS:HE3	5:fL:136:LYS:HB2	1.90	0.40
5:fN:83:ILE:HA	5:fN:114:MET:HE2	2.02	0.40
5:fP:74:LYS:HE3	5:fQ:111:LYS:HZ1	1.86	0.40
5:fj:112:ASP:O	5:fj:115:GLN:HG3	2.22	0.40
5:fx:83:ILE:HG12	5:fx:114:MET:HG3	2.04	0.40
1:AA:188:LEU:HD23	1:AA:188:LEU:HA	1.93	0.40
1:AB:201:MET:HE3	1:AB:201:MET:HB3	1.88	0.40
1:AD:149:LYS:HZ1	1:AG:59:THR:HG1	1.68	0.40
1:AH:162:PRO:O	4:Cm:31:LEU:HD21	2.21	0.40
1:AK:89:ARG:HH21	1:AK:112:LEU:HD21	1.86	0.40
1:AN:49:TRP:CE3	1:AN:74:SER:HB3	2.57	0.40
1:AN:163:GLU:O	1:AN:164:GLN:NE2	2.55	0.40
1:AV:133:PHE:O	1:AV:137:GLY:N	2.43	0.40
1:AZ:196:GLU:HB3	1:AZ:265:ASN:HD22	1.86	0.40
1:Aa:79:LEU:HD23	1:Aa:79:LEU:HA	1.90	0.40
1:Ac:28:TRP:O	1:Ac:262:TYR:OH	2.28	0.40
1:An:164:GLN:HE22	1:An:308:ARG:HA	1.86	0.40
1:Ay:133:PHE:O	1:Ay:137:GLY:N	2.42	0.40
1:BB:57:PRO:HB2	1:UZ:84:LEU:HB3	2.02	0.40
1:BE:152:LEU:HD21	2:CW:105:SER:HA	2.03	0.40
1:BF:166:LYS:HE2	1:BF:166:LYS:HB3	1.88	0.40
1:BL:239:LYS:HA	1:BL:242:ASN:OD1	2.21	0.40
1:BP:307:THR:HG22	2:CX:32:LEU:HB2	2.03	0.40
1:BR:96:GLU:O	1:BR:100:THR:HG23	2.21	0.40
1:BS:79:LEU:HD11	1:BS:305:LEU:HB2	2.02	0.40
1:BX:166:LYS:HE2	1:BX:313:GLN:OE1	2.22	0.40
1:Ba:96:GLU:O	1:Ba:100:THR:HG23	2.21	0.40
2:Bq:23:LYS:HE3	2:Bq:23:LYS:HB2	1.80	0.40
2:By:77:PHE:HB2	4:Cs:138:LYS:HE2	2.03	0.40
2:CG:156:ASN:HB3	2:CG:178:PHE:CD2	2.57	0.40
2:CY:137:LEU:HB3	2:CY:145:LEU:HD22	2.02	0.40
2:Cd:77:PHE:CD2	4:DH:138:LYS:HE2	2.54	0.40
4:Cn:23:LYS:N	4:Cn:67:TYR:OH	2.54	0.40
4:Cz:132:ASP:OD1	4:Cz:132:ASP:N	2.54	0.40
1:Ew:188:LEU:HD23	1:Ew:188:LEU:HA	1.96	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ez:84:LEU:HD13	1:FK:57:PRO:HB2	2.02	0.40
1:FB:261:ILE:HD12	1:FB:312:LEU:HD23	2.03	0.40
1:FG:13:VAL:HG11	1:FG:281:PRO:HG2	2.04	0.40
1:FH:164:GLN:HB3	1:FH:311:ILE:O	2.22	0.40
1:FT:59:THR:O	2:Gs:61:ASN:ND2	2.54	0.40
1:FX:50:ASP:HB3	1:FX:73:SER:OG	2.21	0.40
1:Fb:41:MET:HE3	1:Fb:82:LEU:HD12	2.02	0.40
1:Fn:150:ARG:HE	2:HE:82:THR:HB	1.87	0.40
1:Fr:96:GLU:O	1:Fr:100:THR:HG23	2.21	0.40
1:Fs:66:THR:HG22	2:HO:52:CYS:HB3	2.04	0.40
1:Fu:80:ASN:HD22	1:Fu:154:ASN:HB2	1.87	0.40
1:Fz:277:MET:HA	1:Fz:300:VAL:HB	2.04	0.40
1:GC:31:PRO:HG3	5:JM:218:TYR:CD1	2.57	0.40
1:GJ:211:LEU:HD23	1:GJ:211:LEU:HA	1.89	0.40
2:GZ:123:LEU:HD13	2:GZ:173:VAL:HG11	2.04	0.40
2:Gr:160:LEU:HD11	2:Gr:176:SER:OG	2.22	0.40
2:HS:54:SER:HB2	2:HT:58:LYS:NZ	2.37	0.40
4:Hg:113:LYS:HE3	4:Hg:113:LYS:HB2	1.94	0.40
4:Hj:65:LEU:HD12	4:Hj:92:HIS:CE1	2.57	0.40
4:Hx:8:VAL:HG12	4:Hx:12:GLN:NE2	2.36	0.40
1:Js:197:PHE:H	1:Js:197:PHE:HD1	1.69	0.40
1:Jx:129:LEU:HD11	1:Jx:139:VAL:HG13	2.03	0.40
1:Jz:85:GLN:HB3	1:KC:60:ILE:HD11	2.04	0.40
1:Jz:259:ILE:HB	1:Jz:314:VAL:HB	2.04	0.40
1:KB:211:LEU:O	1:KB:214:VAL:HG22	2.21	0.40
1:KF:31:PRO:HG3	5:NP:218:TYR:CD1	2.56	0.40
1:KL:77:VAL:HG11	1:KL:305:LEU:HD13	2.04	0.40
1:KV:41:MET:HE3	1:KV:83:LYS:HB3	2.04	0.40
1:KW:49:TRP:CH2	1:KW:74:SER:HB3	2.56	0.40
1:KW:96:GLU:O	1:KW:100:THR:HG23	2.22	0.40
1:Ka:152:LEU:HD21	2:Ls:105:SER:HA	2.04	0.40
1:Kd:255:LEU:HD23	1:Kd:255:LEU:HA	1.88	0.40
1:Kl:25:MET:HE1	1:Kl:130:ILE:HG22	2.04	0.40
1:Kp:101:SER:OG	1:Kp:102:ASP:N	2.55	0.40
1:Kr:244:ARG:CZ	1:Kt:249:ILE:HB	2.51	0.40
1:Ks:201:MET:HE3	1:Ks:201:MET:HB3	1.96	0.40
1:Kv:239:LYS:HA	1:Kv:242:ASN:OD1	2.22	0.40
1:Ky:27:LYS:O	5:OI:223:ARG:NH2	2.48	0.40
1:Kz:21:LYS:NZ	1:LA:195:ASP:OD2	2.49	0.40
1:Kz:77:VAL:HG11	1:Kz:305:LEU:HD13	2.02	0.40
1:Kz:175:ASP:HA	1:Kz:212:LYS:HZ1	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LB:39:LEU:HD21	1:LB:81:TYR:CE2	2.56	0.40
1:LE:101:SER:OG	1:LE:102:ASP:N	2.55	0.40
2:MD:65:LYS:HD3	2:MD:87:GLU:HB3	2.04	0.40
4:MU:93:VAL:HG21	4:MU:117:ILE:HD11	2.03	0.40
4:MW:57:ASP:HA	4:MW:122:ASN:HD21	1.87	0.40
4:Mi:52:ARG:HB3	1:Pf:66:THR:HG22	2.02	0.40
1:OX:196:GLU:HB3	1:OX:265:ASN:ND2	2.36	0.40
1:Oc:229:LYS:HE3	1:Of:236:GLN:OE1	2.22	0.40
1:Ol:49:TRP:CZ3	1:Ol:74:SER:HB3	2.56	0.40
1:Ot:296:TYR:HE2	1:Pr:67:ILE:HG13	1.86	0.40
1:Oz:248:TYR:CZ	5:SJ:223:ARG:HD3	2.57	0.40
1:PH:188:LEU:HD23	1:PH:188:LEU:HA	1.88	0.40
1:PN:158:LEU:HB3	1:PN:260:LEU:HD21	2.02	0.40
1:PV:67:ILE:HG13	1:PY:296:TYR:HE2	1.86	0.40
1:PV:260:LEU:HD23	1:PV:260:LEU:HA	1.92	0.40
1:PY:277:MET:HA	1:PY:300:VAL:HB	2.03	0.40
1:Pf:8:TYR:CD2	1:Pf:93:GLN:HG3	2.57	0.40
1:Ph:201:MET:HE3	1:Ph:201:MET:HB3	1.96	0.40
1:Ph:205:VAL:HG12	1:Ph:259:ILE:HG23	2.04	0.40
1:Ph:272:LYS:N	1:Ph:303:GLY:O	2.40	0.40
1:Pk:196:GLU:HB3	1:Pk:265:ASN:HD22	1.86	0.40
1:Pn:277:MET:HA	1:Pn:300:VAL:HB	2.03	0.40
1:Pq:267:GLU:H	1:Pq:267:GLU:HG2	1.72	0.40
1:Pt:306:ALA:O	2:Qu:31:LEU:HD22	2.21	0.40
2:QD:62:TYR:HE1	4:RE:52:ARG:HH12	1.69	0.40
2:QL:58:LYS:HE2	2:QM:116:ASN:ND2	2.33	0.40
2:QY:167:THR:HG22	2:QY:168:GLU:H	1.86	0.40
2:QZ:156:ASN:HB3	2:QZ:178:PHE:CD2	2.57	0.40
2:Qd:137:LEU:HD11	2:Qd:159:ALA:HB2	2.02	0.40
2:Qh:156:ASN:HB3	2:Qh:178:PHE:CE2	2.57	0.40
2:Qk:137:LEU:HD11	2:Qk:159:ALA:HB2	2.03	0.40
2:Qq:123:LEU:HD21	2:Qq:131:VAL:HG21	2.02	0.40
2:Qt:75:LEU:HD22	2:Qt:84:LEU:HD13	2.04	0.40
4:RL:107:ASP:OD1	4:RL:108:ILE:N	2.54	0.40
4:RN:65:LEU:HD12	4:RN:92:HIS:CE1	2.57	0.40
4:RP:37:GLU:O	4:RP:41:LYS:HD2	2.21	0.40
1:TI:201:MET:HE3	1:TI:201:MET:HB3	1.97	0.40
1:TK:43:TYR:CE1	1:TK:45:LYS:HE3	2.57	0.40
1:TK:78:ARG:HH21	2:Up:104:PHE:HE1	1.69	0.40
1:TM:196:GLU:HB3	1:TM:265:ASN:ND2	2.36	0.40
1:TO:260:LEU:HD23	1:TO:260:LEU:HA	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:TP:13:VAL:HG11	1:TP:281:PRO:HG2	2.03	0.40
1:TR:24:ILE:HG12	1:TR:131:ASN:ND2	2.37	0.40
1:TR:229:LYS:HE3	1:TU:236:GLN:OE1	2.22	0.40
1:TS:174:LYS:HE2	1:TS:318:GLN:HG2	2.03	0.40
1:TX:49:TRP:CZ3	1:TX:74:SER:HB3	2.56	0.40
1:Ta:164:GLN:HB3	1:Ta:311:ILE:O	2.22	0.40
1:Ta:255:LEU:HD23	1:Ta:255:LEU:HA	1.91	0.40
1:Te:13:VAL:HG11	1:Te:281:PRO:HG2	2.03	0.40
1:Tf:272:LYS:N	1:Tf:303:GLY:O	2.50	0.40
1:Tg:49:TRP:CZ3	1:Tg:74:SER:HB3	2.57	0.40
1:Ti:196:GLU:OE1	1:Ti:265:ASN:ND2	2.51	0.40
1:Ti:296:TYR:HE2	1:Ug:67:ILE:HG13	1.86	0.40
1:Tj:49:TRP:CZ3	1:Tj:74:SER:HB3	2.57	0.40
1:Ts:196:GLU:HB3	1:Ts:265:ASN:ND2	2.37	0.40
1:Tx:112:LEU:HD12	1:Tx:112:LEU:HA	1.83	0.40
1:Tx:239:LYS:HA	1:Tx:242:ASN:OD1	2.21	0.40
1:Tz:48:LYS:HD2	1:Tz:48:LYS:HA	1.86	0.40
1:UA:66:THR:HG22	2:Va:52:CYS:HB3	2.04	0.40
1:UA:278:LEU:HD23	1:UA:278:LEU:HA	1.89	0.40
1:UB:158:LEU:HB3	1:UB:260:LEU:HD21	2.04	0.40
1:UC:191:LEU:HD23	1:UC:191:LEU:HA	1.98	0.40
1:UJ:24:ILE:HG12	1:UJ:131:ASN:ND2	2.35	0.40
1:UJ:45:LYS:HE3	1:UJ:78:ARG:HD3	2.04	0.40
1:UN:277:MET:HA	1:UN:300:VAL:HB	2.03	0.40
1:UQ:255:LEU:HD23	1:UQ:255:LEU:HA	1.90	0.40
1:UW:82:LEU:HD12	1:UW:82:LEU:HA	1.94	0.40
1:UW:205:VAL:HG12	1:UW:259:ILE:HG23	2.04	0.40
1:UY:3:LEU:HD22	5:Xi:198:ASN:C	2.46	0.40
1:UZ:260:LEU:HD23	1:UZ:260:LEU:HA	1.90	0.40
1:Ud:317:LYS:HZ3	1:Ud:319:SER:HB2	1.86	0.40
1:Uf:80:ASN:C	1:Uf:81:TYR:HD1	2.30	0.40
1:Uk:57:PRO:HB2	1:Um:84:LEU:HB3	2.04	0.40
2:Uo:156:ASN:HB3	2:Uo:178:PHE:CZ	2.56	0.40
2:Uq:23:LYS:N	2:Uq:67:TYR:OH	2.54	0.40
2:VJ:120:TYR:CE1	2:VJ:174:LEU:HB2	2.56	0.40
2:VK:145:LEU:HD23	2:VK:145:LEU:HA	1.98	0.40
2:VL:23:LYS:HG3	2:VL:24:ASN:H	1.86	0.40
2:VS:23:LYS:HE3	2:VS:23:LYS:HB2	1.96	0.40
4:WA:35:SER:O	4:WA:41:LYS:HD2	2.21	0.40
5:Xh:189:LEU:HD11	5:Xh:206:ILE:HG12	2.04	0.40
6:Xz:366:GLU:O	6:Xz:370:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:YC:43:LEU:HD12	6:YC:43:LEU:HA	1.95	0.40
6:YH:260:LYS:HD2	6:YH:263:LEU:HD11	2.03	0.40
5:YQ:56:ASN:HB2	5:Yf:147:ILE:HD11	2.02	0.40
5:YZ:94:LEU:HD11	5:YZ:121:LEU:HG	2.04	0.40
5:Yh:59:ILE:HD11	5:Yu:98:PHE:CE1	2.56	0.40
5:Yj:99:ASN:O	5:Yj:103:LEU:HG	2.21	0.40
5:Yq:70:GLU:O	5:Yq:74:LYS:HG2	2.21	0.40
5:Yt:126:VAL:HA	5:Yt:127:PRO:HD3	1.95	0.40
5:Yx:140:ILE:HG22	5:Yx:140:ILE:O	2.22	0.40
5:ZA:55:ILE:HD11	5:Zg:98:PHE:CD2	2.56	0.40
5:ZE:125:PHE:CE1	5:ZE:159:ILE:HD13	2.57	0.40
5:ZH:83:ILE:HG23	5:ZH:114:MET:SD	2.62	0.40
5:ZJ:112:ASP:O	5:ZJ:115:GLN:HG3	2.22	0.40
5:ZT:112:ASP:O	5:ZT:115:GLN:HG3	2.22	0.40
5:Zk:99:ASN:HB3	5:Zk:102:VAL:HG22	2.04	0.40
5:Zl:130:GLN:OE1	5:Zl:130:GLN:N	2.52	0.40
5:Zn:130:GLN:OE1	5:Zn:130:GLN:N	2.52	0.40
5:Zs:94:LEU:HD11	5:Zs:121:LEU:HG	2.02	0.40
5:Zt:136:LYS:HB2	5:Zt:136:LYS:HE3	1.90	0.40
5:Zu:99:ASN:HB3	5:Zu:102:VAL:HG22	2.03	0.40
5:Zv:112:ASP:O	5:Zv:115:GLN:HG3	2.22	0.40
5:Zw:153:SER:HB2	5:Zx:133:ALA:HB1	2.04	0.40
5:Zx:76:LEU:HD22	5:aa:76:LEU:HD21	2.04	0.40
5:Zz:136:LYS:HB2	5:Zz:136:LYS:HE3	1.90	0.40
5:aG:57:GLU:HA	5:aG:60:THR:HG22	2.02	0.40
5:aG:74:LYS:HA	5:aG:74:LYS:HD3	1.91	0.40
5:aM:55:ILE:HD13	5:as:116:ALA:HB1	2.03	0.40
5:ac:77:LEU:O	5:ac:81:GLU:HG2	2.22	0.40
5:ae:57:GLU:HA	5:ae:60:THR:HG22	2.04	0.40
5:af:112:ASP:O	5:af:115:GLN:HG3	2.22	0.40
5:af:135:ALA:HB1	5:af:143:ILE:HG12	2.03	0.40
5:af:143:ILE:HD12	5:af:143:ILE:HA	1.92	0.40
5:ai:76:LEU:HD21	5:al:76:LEU:HD22	2.04	0.40
5:ao:55:ILE:HG21	5:bU:116:ALA:HB2	2.03	0.40
5:bA:76:LEU:HD21	5:bD:76:LEU:HD22	2.04	0.40
5:bC:57:GLU:HA	5:bC:60:THR:HG22	2.03	0.40
5:bb:130:GLN:OE1	5:bb:130:GLN:N	2.52	0.40
5:bc:76:LEU:HD21	5:bf:76:LEU:HD22	2.04	0.40
5:bi:153:SER:HB2	5:bj:133:ALA:HB1	2.02	0.40
5:bl:112:ASP:O	5:bl:115:GLN:HG3	2.22	0.40
5:br:112:ASP:O	5:br:115:GLN:HG3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:bu:77:LEU:O	5:bu:81:GLU:HG2	2.22	0.40
5:cB:143:ILE:HD12	5:cB:143:ILE:HA	1.92	0.40
5:cJ:130:GLN:OE1	5:cJ:130:GLN:N	2.51	0.40
5:cJ:135:ALA:HB1	5:cJ:143:ILE:HG12	2.02	0.40
5:cM:153:SER:HB2	5:cN:133:ALA:HB1	2.02	0.40
5:cc:76:LEU:HD21	5:cf:76:LEU:HD22	2.04	0.40
5:cf:135:ALA:HB1	5:cf:143:ILE:HG12	2.04	0.40
5:cu:99:ASN:O	5:cu:103:LEU:HG	2.21	0.40
5:dC:94:LEU:HD11	5:dC:121:LEU:HG	2.02	0.40
5:dD:143:ILE:HD12	5:dD:143:ILE:HA	1.92	0.40
5:dH:135:ALA:HB1	5:dH:143:ILE:HG12	2.03	0.40
5:dJ:112:ASP:O	5:dJ:115:GLN:HG3	2.22	0.40
5:dK:153:SER:HB2	5:dL:133:ALA:HB1	2.03	0.40
5:dO:153:SER:HB2	5:dP:133:ALA:HB1	2.02	0.40
5:db:112:ASP:O	5:db:115:GLN:HG3	2.21	0.40
5:df:112:ASP:O	5:df:115:GLN:HG3	2.21	0.40
5:dg:153:SER:HB2	5:dh:133:ALA:HB1	2.03	0.40
5:di:140:ILE:HG22	5:di:140:ILE:O	2.21	0.40
5:dl:112:ASP:O	5:dl:115:GLN:HG3	2.22	0.40
5:dn:112:ASP:O	5:dn:115:GLN:HG3	2.22	0.40
5:dp:112:ASP:O	5:dp:115:GLN:HG3	2.22	0.40
5:eE:153:SER:HB2	5:eF:133:ALA:HB1	2.02	0.40
5:eP:112:ASP:O	5:eP:115:GLN:HG3	2.21	0.40
5:eR:74:LYS:HE3	5:eS:111:LYS:HZ2	1.87	0.40
5:eY:77:LEU:O	5:eY:81:GLU:HG2	2.22	0.40
5:eZ:83:ILE:HG12	5:eZ:114:MET:HG3	2.04	0.40
5:ea:77:LEU:O	5:ea:81:GLU:HG2	2.22	0.40
5:ed:112:ASP:O	5:ed:115:GLN:HG3	2.22	0.40
5:er:130:GLN:OE1	5:er:130:GLN:N	2.51	0.40
5:ex:83:ILE:HG12	5:ex:114:MET:HG3	2.03	0.40
5:ex:135:ALA:HB1	5:ex:143:ILE:HG12	2.03	0.40
5:ez:83:ILE:HA	5:ez:114:MET:HE2	2.03	0.40
5:fF:83:ILE:HA	5:fF:114:MET:HE2	2.03	0.40
5:fL:83:ILE:HG12	5:fL:114:MET:HG3	2.04	0.40
5:fR:83:ILE:HA	5:fR:114:MET:HE2	2.03	0.40
5:fa:94:LEU:HD11	5:fa:121:LEU:HG	2.02	0.40
5:fl:143:ILE:HD12	5:fl:143:ILE:HA	1.92	0.40
5:fn:83:ILE:HG12	5:fn:114:MET:HG3	2.04	0.40
5:fv:136:LYS:HE3	5:fv:136:LYS:HB2	1.90	0.40
5:fz:130:GLN:OE1	5:fz:130:GLN:N	2.51	0.40
5:gB:83:ILE:HA	5:gB:114:MET:HE2	2.02	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains

There are no protein residues with a non-rotameric sidechain to report in this entry.

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

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

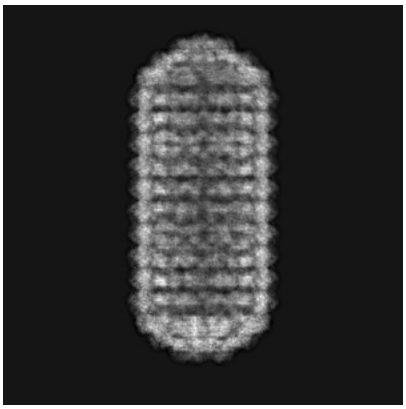
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-18518. These allow visual inspection of the internal detail of the map and identification of artifacts.

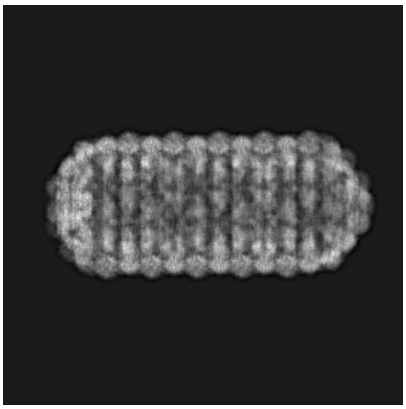
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

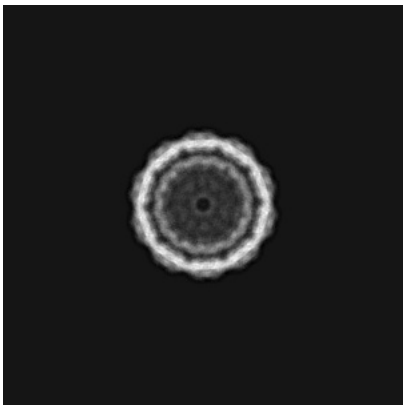
6.1.1 Primary map



X

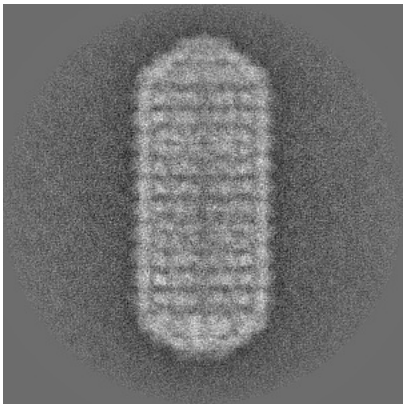


Y

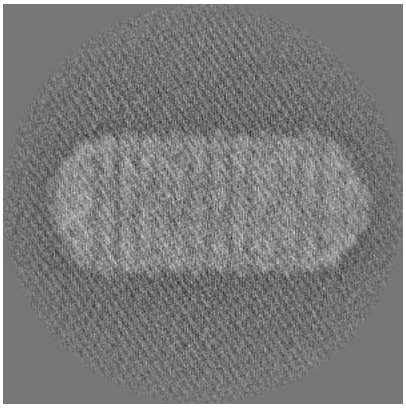


Z

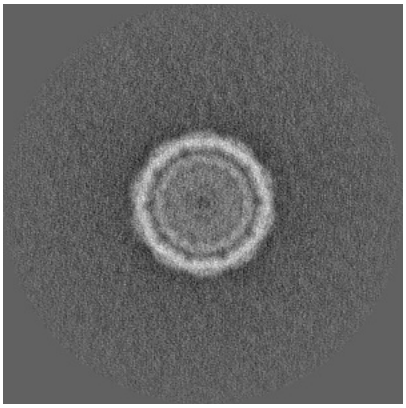
6.1.2 Raw map



X



Y



Z

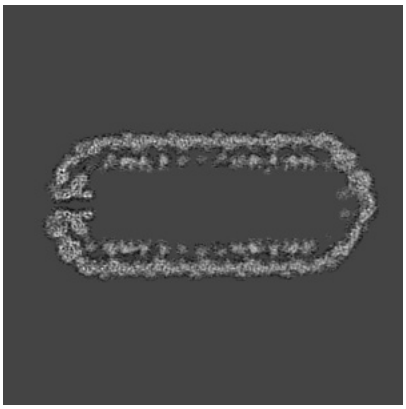
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

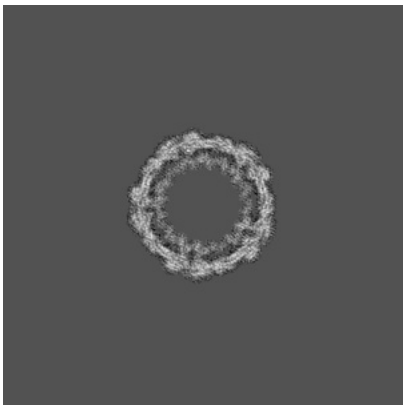
6.2.1 Primary map



X Index: 360

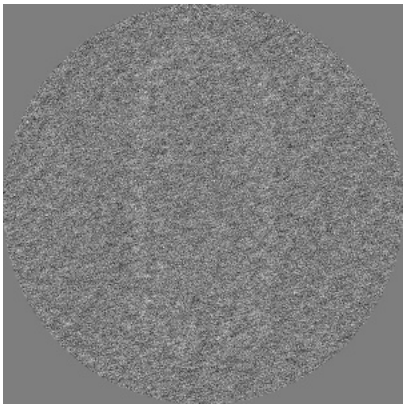


Y Index: 360

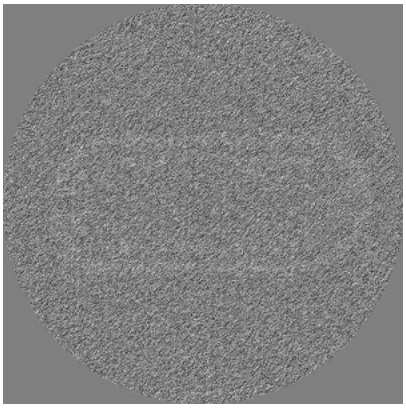


Z Index: 360

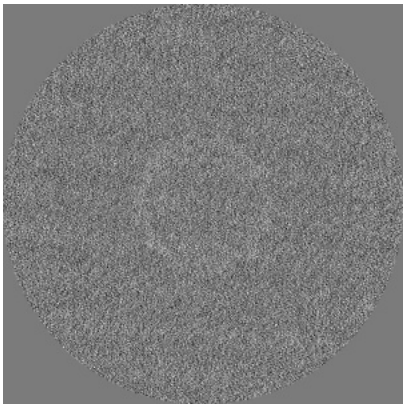
6.2.2 Raw map



X Index: 360



Y Index: 360

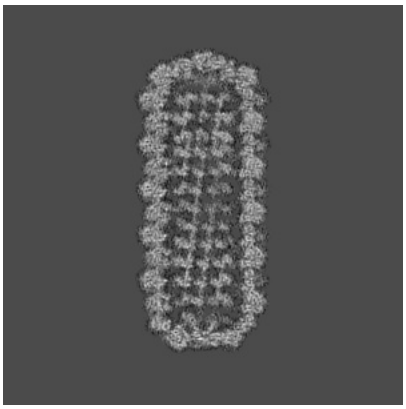


Z Index: 360

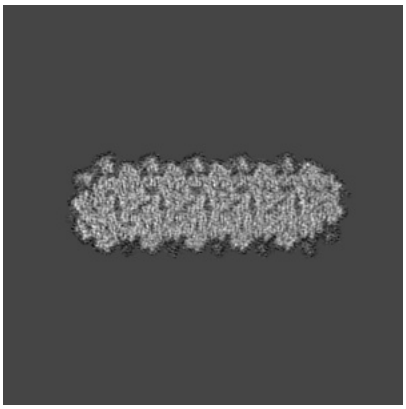
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

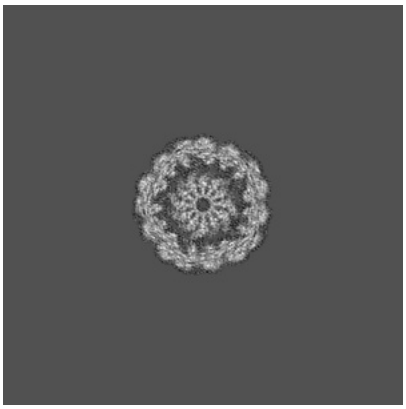
6.3.1 Primary map



X Index: 434

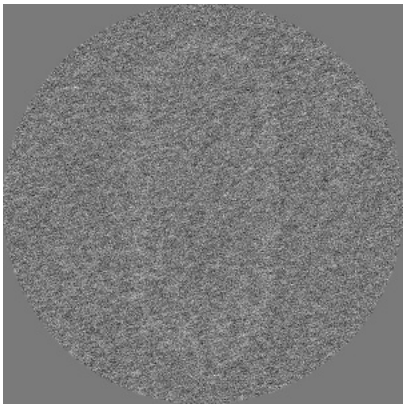


Y Index: 466

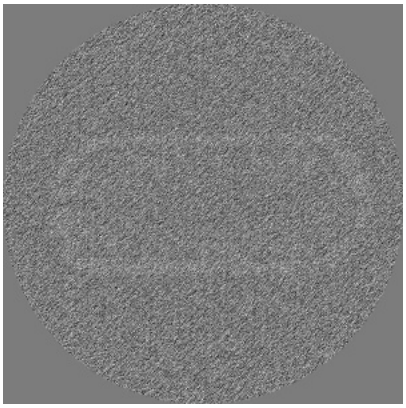


Z Index: 139

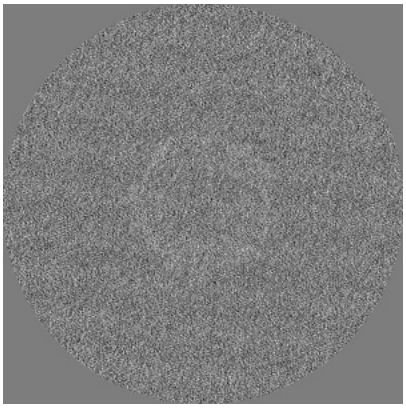
6.3.2 Raw map



X Index: 365



Y Index: 365

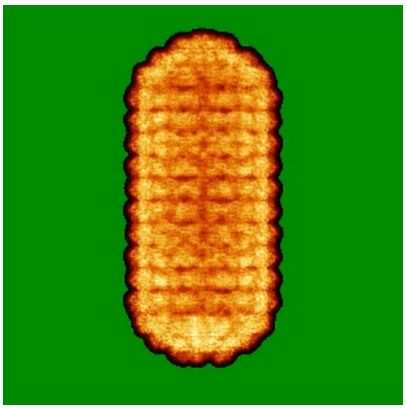


Z Index: 348

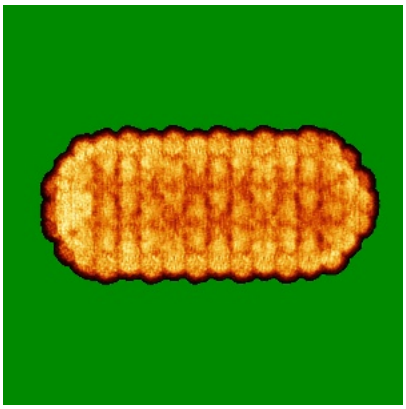
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

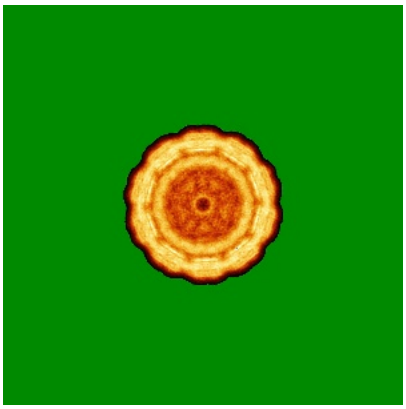
6.4.1 Primary map



X

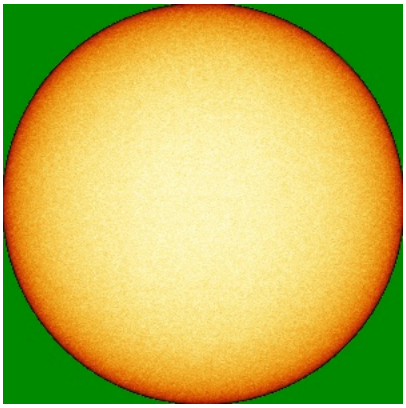


Y

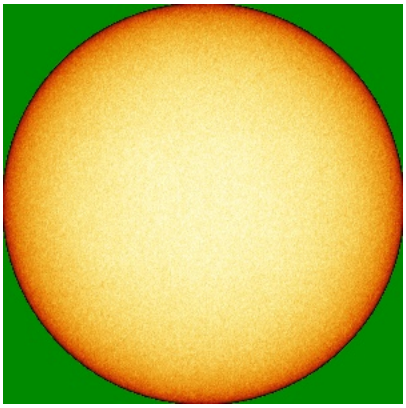


Z

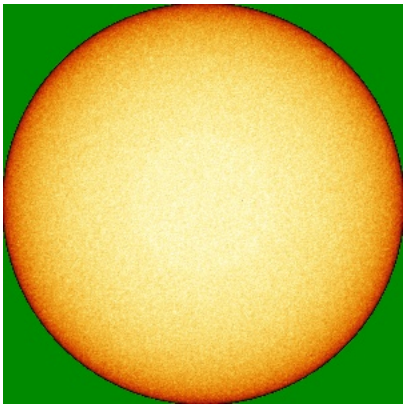
6.4.2 Raw map



X



Y

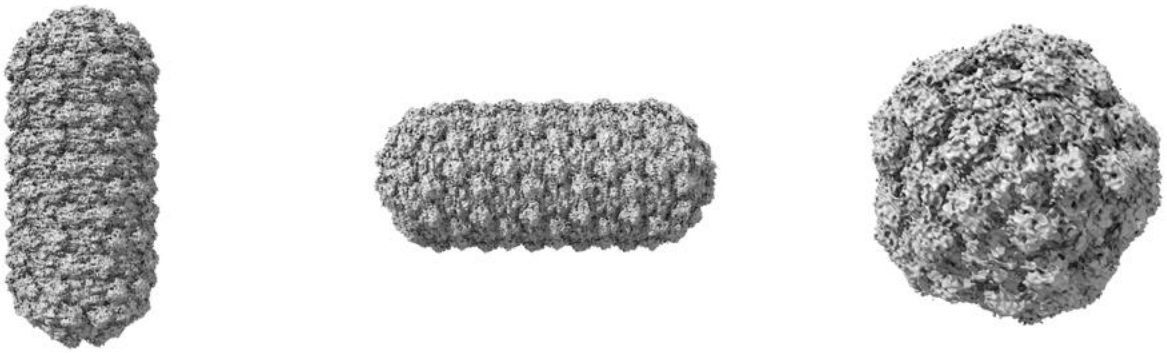


Z

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 0.011. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

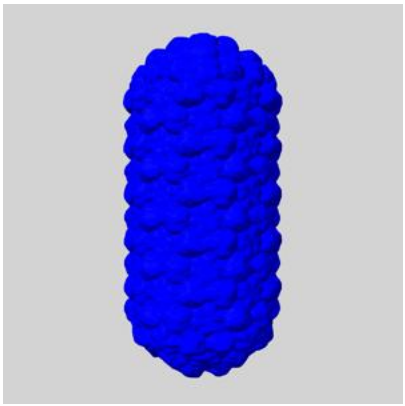
6.6 Mask visualisation

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

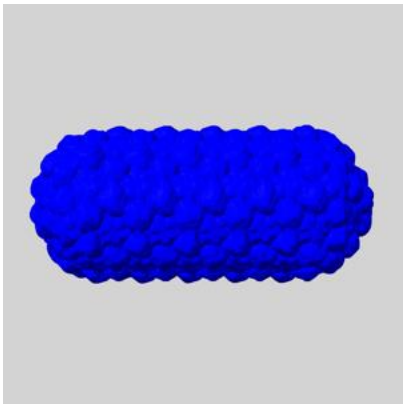
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

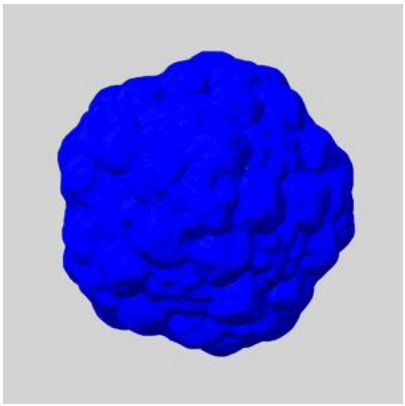
6.6.1 emd_18518_msk_1.map



X



Y

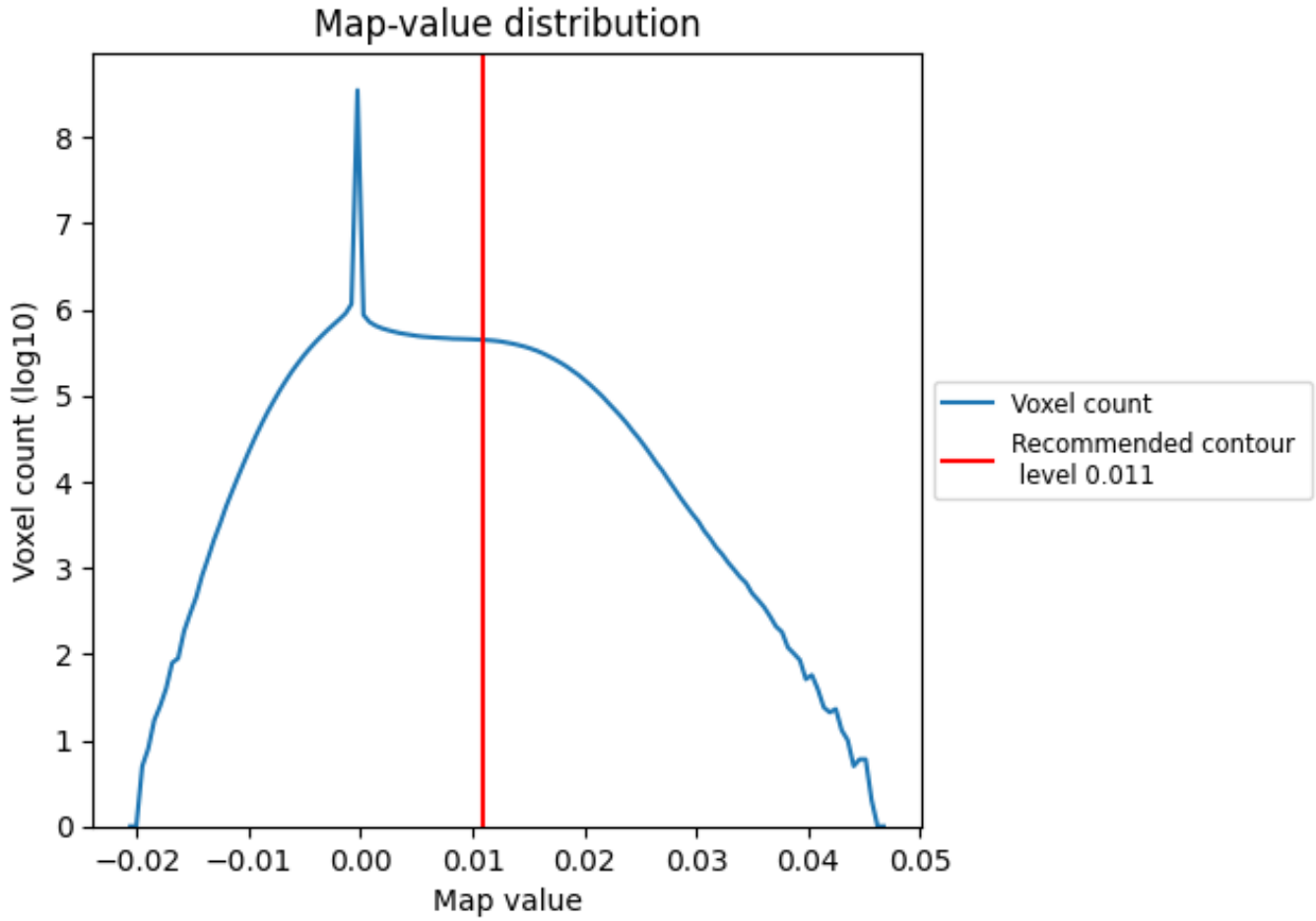


Z

7 Map analysis

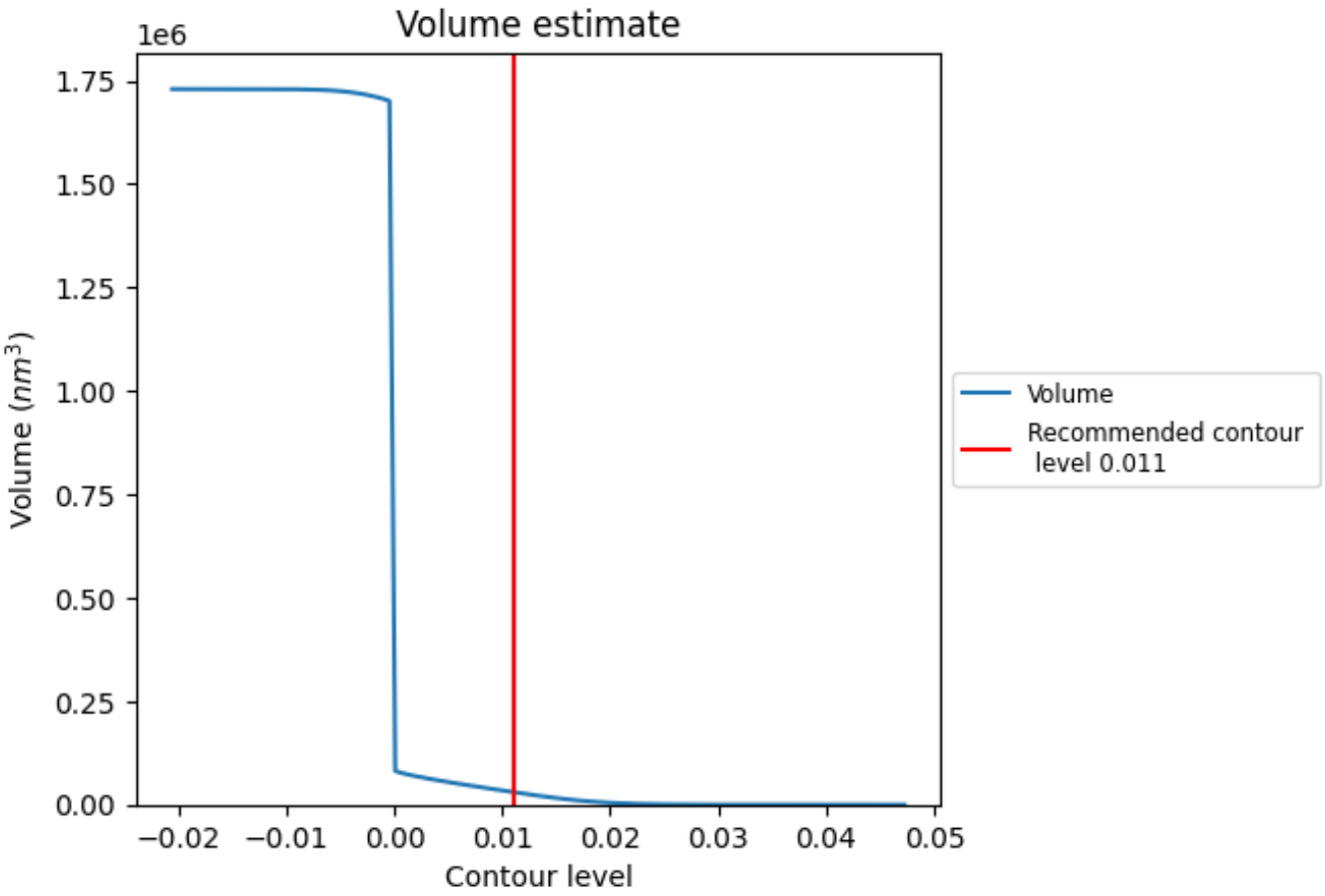
This section contains the results of statistical analysis of the map.

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.

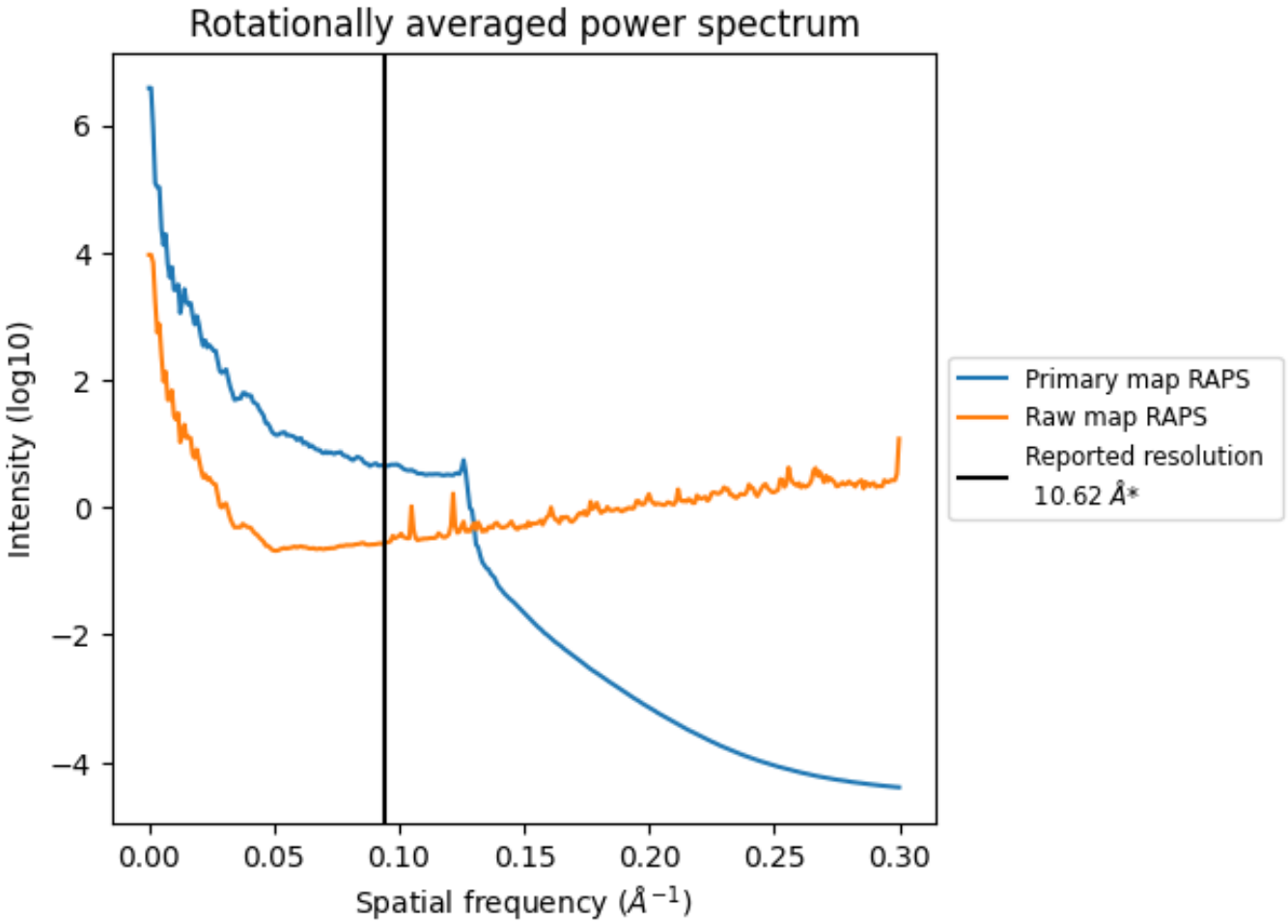
7.2 Volume estimate (i)



The volume at the recommended contour level is 30361 nm^3; this corresponds to an approximate mass of 27426 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)

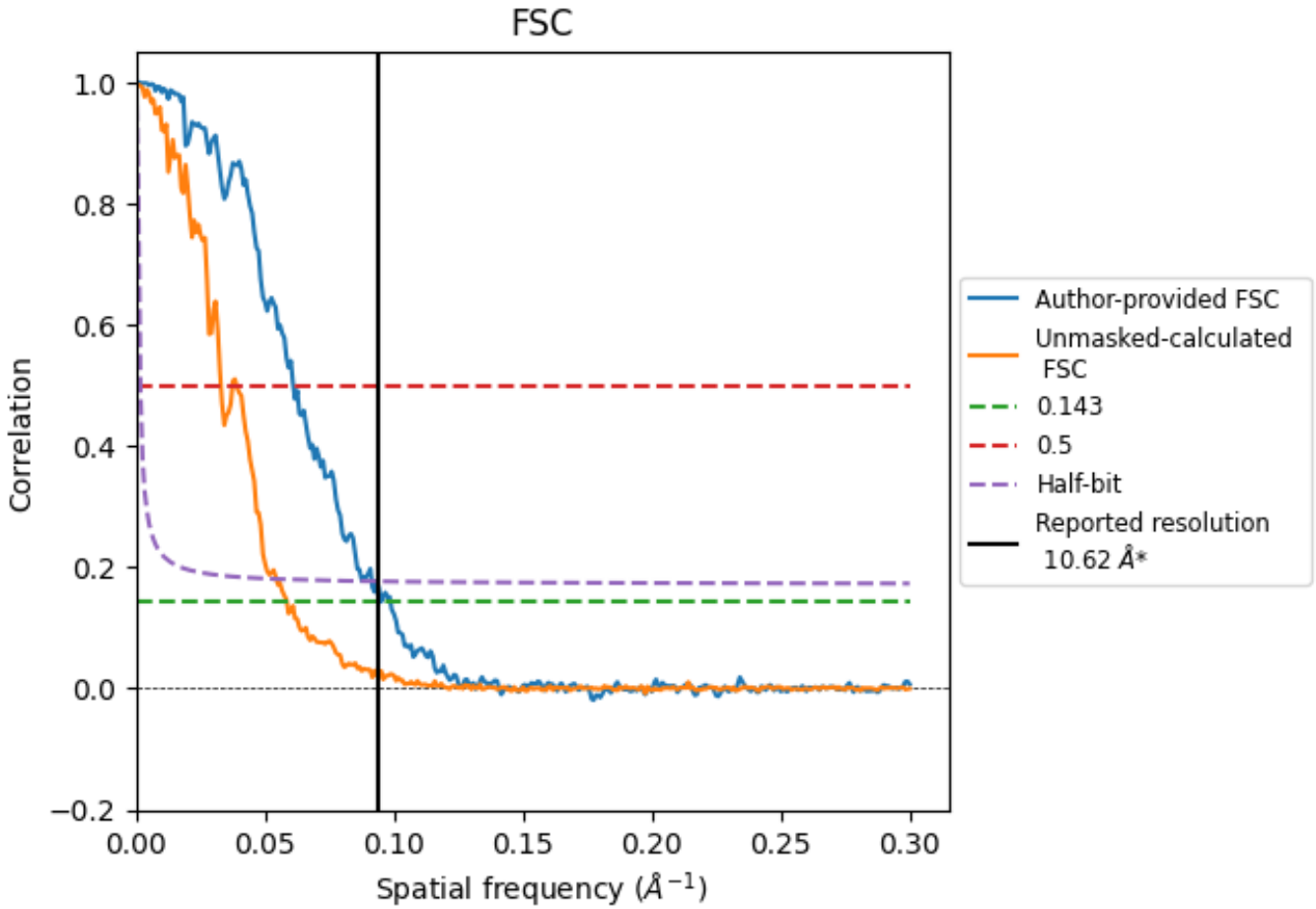


*Reported resolution corresponds to spatial frequency of 0.094 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.094 Å^{-1}

8.2 Resolution estimates (i)

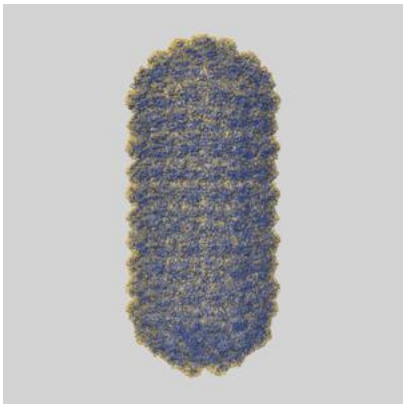
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	10.62	-	-
Author-provided FSC curve	10.53	16.42	10.94
Unmasked-calculated*	17.12	30.40	18.38

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 17.12 differs from the reported value 10.62 by more than 10 %

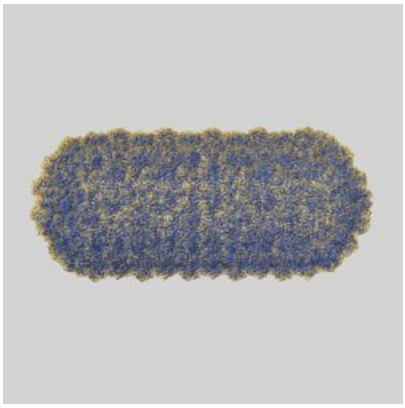
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-18518 and PDB model 8QO0. Per-residue inclusion information can be found in section 3 on page 157.

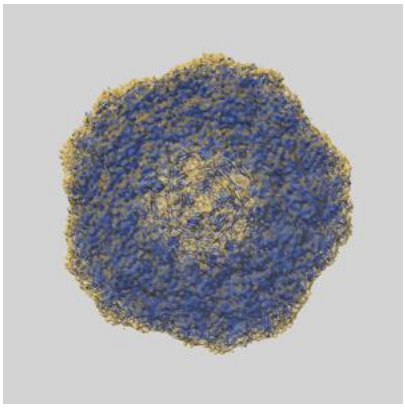
9.1 Map-model overlay



X



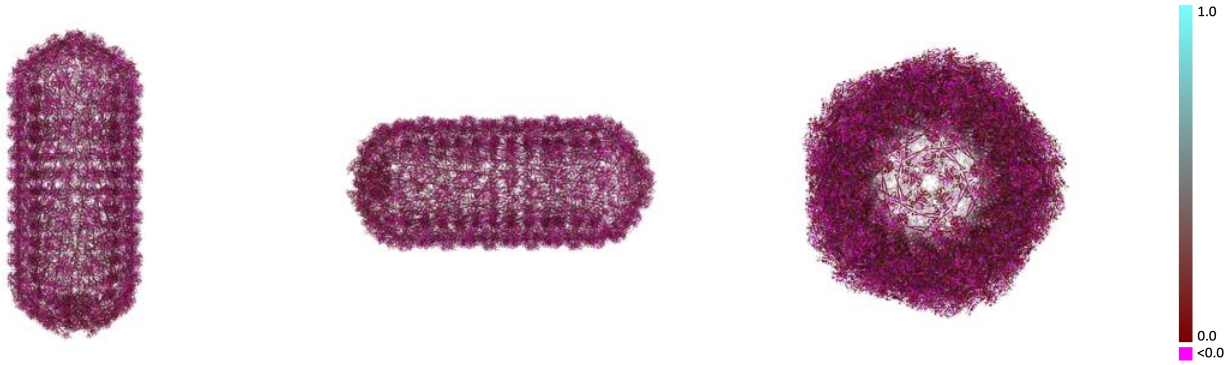
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.011 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



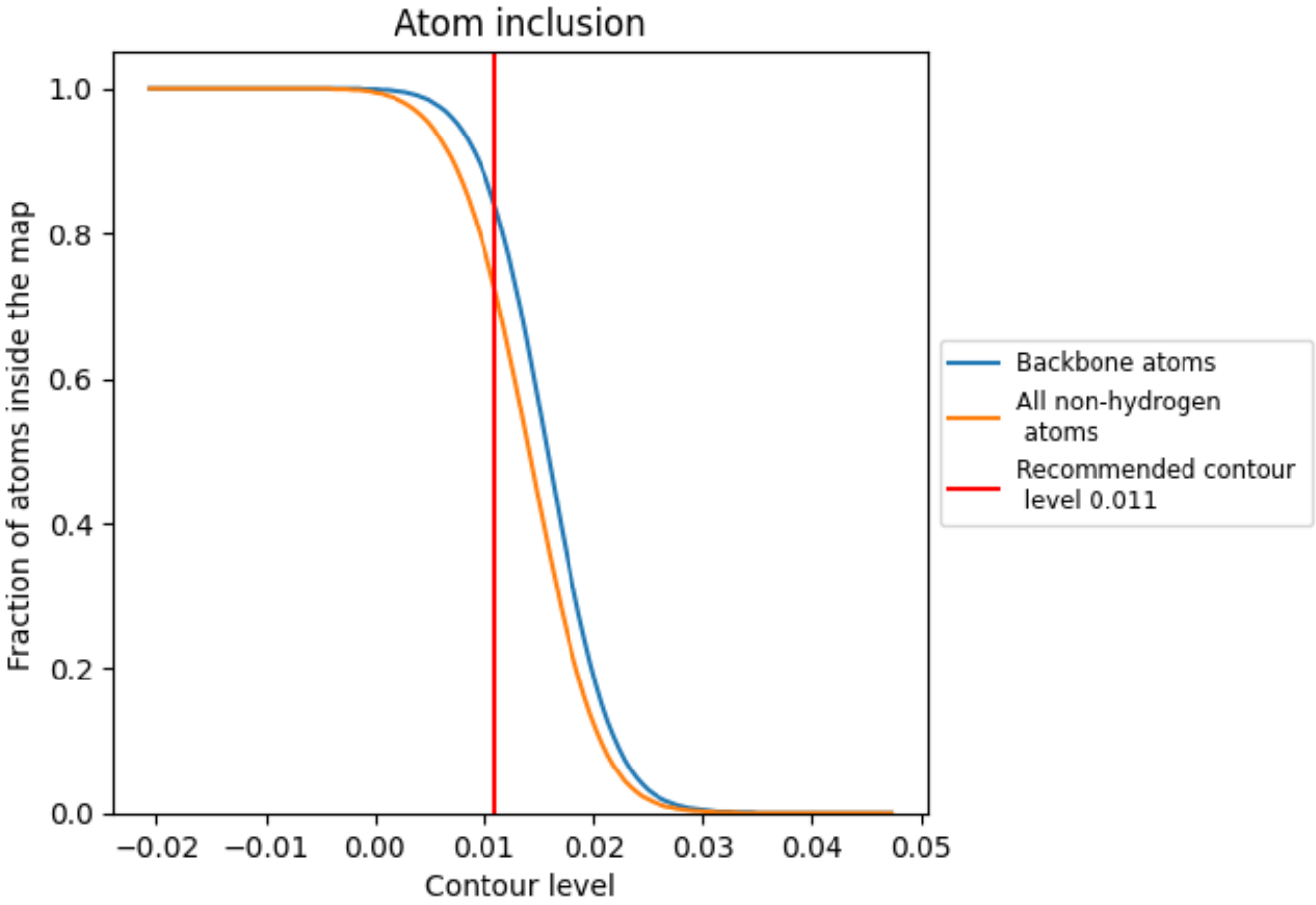
X Y Z

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, 84% of all backbone atoms, 72% 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 (0.011) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7220	0.0880
AA	0.7810	0.1120
AB	0.7820	0.0940
AC	0.7590	0.0940
AD	0.7220	0.0830
AE	0.7570	0.0760
AF	0.7370	0.0760
AG	0.7440	0.0830
AH	0.7240	0.0820
AI	0.7560	0.0940
AJ	0.6780	0.0650
AK	0.7460	0.0830
AL	0.8050	0.0910
AM	0.7050	0.0690
AN	0.6980	0.0580
AO	0.7530	0.0820
AP	0.7010	0.0540
AQ	0.7280	0.0810
AR	0.7420	0.0880
AS	0.7220	0.0600
AT	0.6940	0.0700
AU	0.7840	0.0790
AV	0.7430	0.0670
AW	0.7430	0.0910
AX	0.6960	0.0890
AY	0.7230	0.0730
AZ	0.7640	0.0880
Aa	0.7360	0.0640
Ab	0.8050	0.1300
Ac	0.8050	0.1150
Ad	0.7540	0.0980
Ae	0.7640	0.1070
Af	0.8020	0.0980
Ag	0.7670	0.0940
Ah	0.6990	0.0850



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Chain	Atom inclusion	Q-score
Ai	0.7630	0.1020
Aj	0.7280	0.0890
Ak	0.7640	0.0920
Al	0.7600	0.0790
Am	0.7630	0.0970
An	0.7630	0.0840
Ao	0.7530	0.0820
Ap	0.7500	0.0860
Aq	0.8050	0.1080
Ar	0.7900	0.1070
As	0.8100	0.0920
At	0.7800	0.0850
Au	0.7870	0.0870
Av	0.7620	0.0880
Aw	0.7650	0.0930
Ax	0.7360	0.0850
Ay	0.7060	0.0750
Az	0.7990	0.0950
BA	0.7610	0.0740
BB	0.7820	0.0800
BC	0.7510	0.0860
BD	0.7340	0.0860
BE	0.7980	0.0780
BF	0.7460	0.0730
BG	0.7990	0.0960
BH	0.7760	0.0750
BI	0.7820	0.0860
BJ	0.7560	0.0790
BK	0.7510	0.0860
BL	0.7100	0.0820
BM	0.7630	0.0990
BN	0.7450	0.0790
BO	0.7410	0.0770
BP	0.7390	0.0820
BQ	0.7950	0.0920
BR	0.7580	0.0780
BS	0.6810	0.0730
BT	0.7500	0.0590
BU	0.7400	0.0710
BV	0.7710	0.0820
BW	0.7510	0.0750
BX	0.7890	0.0930

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Chain	Atom inclusion	Q-score
BY	0.7230	0.0650
BZ	0.7850	0.0780
Ba	0.7410	0.0810
Bb	0.7710	0.0990
Bc	0.7770	0.0880
Bd	0.7860	0.0860
Be	0.7340	0.0760
Bf	0.8110	0.0820
Bg	0.8200	0.0950
Bh	0.7420	0.0850
Bi	0.7490	0.0790
Bj	0.7540	0.0780
Bk	0.7720	0.0620
Bl	0.8170	0.0860
Bm	0.6890	0.0540
Bn	0.6740	0.0720
Bo	0.7050	0.0520
Bp	0.6680	0.0850
Bq	0.7550	0.0600
Br	0.6960	0.0580
Bs	0.7420	0.0740
Bt	0.6760	0.0430
Bu	0.7150	0.0660
Bv	0.7500	0.0740
Bw	0.8080	0.0690
Bx	0.7130	0.0740
By	0.6900	0.0660
Bz	0.7610	0.0740
CA	0.7300	0.0980
CB	0.7150	0.0820
CC	0.7660	0.0630
CD	0.7560	0.0870
CE	0.7120	0.0820
CF	0.7270	0.0910
CG	0.7110	0.0760
CH	0.6730	0.0750
CI	0.7690	0.1040
CJ	0.7370	0.0730
CK	0.8140	0.0770
CL	0.7300	0.0940
CM	0.7500	0.0760
CN	0.7630	0.0800

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Chain	Atom inclusion	Q-score
CO	0.7350	0.0790
CP	0.7330	0.0930
CQ	0.6910	0.0730
CR	0.8360	0.0920
CS	0.8220	0.0890
CT	0.7520	0.0810
CU	0.7270	0.0730
CV	0.7950	0.0700
CW	0.7910	0.0860
CX	0.7630	0.1000
CY	0.7280	0.0780
CZ	0.8120	0.0660
Ca	0.7500	0.0700
Cb	0.8270	0.0850
Cc	0.7720	0.1080
Cd	0.7150	0.0640
Ce	0.7390	0.0680
Cf	0.7390	0.0520
Cg	0.7230	0.0890
Ch	0.7850	0.0910
Ci	0.7410	0.0780
Cj	0.7380	0.0920
Ck	0.7400	0.0620
Cl	0.7980	0.0720
Cm	0.7640	0.0680
Cn	0.6950	0.0520
Co	0.8160	0.0770
Cp	0.7690	0.0580
Cq	0.7970	0.0760
Cr	0.7380	0.0660
Cs	0.7750	0.0730
Ct	0.8010	0.1080
Cu	0.7790	0.0910
Cv	0.7860	0.0720
Cw	0.8030	0.0890
Cx	0.7580	0.0750
Cy	0.8060	0.0730
Cz	0.7830	0.0580
DA	0.7520	0.0780
DB	0.6910	0.0690
DC	0.7960	0.0750
DD	0.7370	0.0670

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Chain	Atom inclusion	Q-score
DE	0.7910	0.0800
DF	0.7790	0.0760
DG	0.7470	0.0690
DH	0.7980	0.0730
DI	0.6910	0.0470
DJ	0.7720	0.0920
DK	0.6050	0.1230
DL	0.7200	0.1380
DM	0.6220	0.1180
DN	0.4660	0.0910
DO	0.7300	0.1240
DP	0.6870	0.1120
DQ	0.4430	0.1080
DR	0.6740	0.1060
DS	0.5730	0.0930
DT	0.5830	0.0990
DU	0.5500	0.1030
DV	0.7300	0.1080
DW	0.5580	0.0830
DX	0.7200	0.1480
DY	0.6680	0.0800
DZ	0.7650	0.1480
Da	0.6320	0.0890
Db	0.4980	0.0810
Dc	0.7720	0.1350
Dd	0.7020	0.1250
De	0.5600	0.0220
Df	0.7510	0.1230
Dg	0.7510	0.1250
Dh	0.6740	0.1400
Di	0.6980	0.0940
Dj	0.6740	0.0840
Dk	0.8530	0.1540
Dl	0.7200	0.1250
Dm	0.8140	0.1420
Dn	0.6450	0.1220
Do	0.7620	0.1330
Dp	0.7490	0.1290
Dq	0.7650	0.1280
Dr	0.6290	0.0810
Ds	0.8010	0.1000
Dt	0.7000	0.1250

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Chain	Atom inclusion	Q-score
Du	0.6250	0.0700
Dv	0.7390	0.0990
Dw	0.2120	0.0640
Dx	0.7260	0.1440
Dy	0.7130	0.1390
Dz	0.6710	0.1490
EA	0.7600	0.1430
EB	0.5790	0.1020
EC	0.7260	0.1280
ED	0.6880	0.0730
EE	0.6190	0.0760
EF	0.7730	0.1160
EG	0.6640	0.1090
EH	0.5830	0.0870
EI	0.6940	0.1090
EJ	0.5930	0.0530
EK	0.8570	0.1570
EL	0.7100	0.1370
EM	0.6550	0.0480
EN	0.7560	0.1290
EO	0.7580	0.1390
EP	0.6770	0.1060
EQ	0.6030	0.0730
ER	0.6870	0.1090
ES	0.7230	0.1130
ET	0.8220	0.1430
EU	0.6960	0.0970
EV	0.6840	0.1220
EW	0.6610	0.1090
EX	0.6090	0.0710
EY	0.7430	0.1180
EZ	0.6710	0.1300
Ea	0.6930	0.1100
Eb	0.6160	0.0830
Ec	0.6090	0.1180
Ed	0.7150	0.1350
Ee	0.7040	0.1060
Ef	0.5570	0.0670
Eg	0.7470	0.1400
Eh	0.7110	0.1000
Ei	0.6840	0.1310
Ej	0.6930	0.1180

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Chain	Atom inclusion	Q-score
Ek	0.7460	0.1440
El	0.6350	0.0650
Em	0.6890	0.0970
En	0.7280	0.1300
Eo	0.7130	0.1310
Ep	0.7590	0.0970
Eq	0.8030	0.1040
Er	0.7750	0.1050
Es	0.7040	0.0860
Et	0.7530	0.1010
Eu	0.7850	0.0960
Ev	0.7650	0.0920
Ew	0.6920	0.0900
Ex	0.7400	0.0970
Ey	0.6650	0.0730
Ez	0.7560	0.0830
FA	0.7390	0.0850
FB	0.7100	0.0870
FC	0.7470	0.0800
FD	0.7050	0.0700
FE	0.7380	0.0730
FF	0.7480	0.0950
FG	0.7470	0.0940
FH	0.7480	0.0760
FI	0.7210	0.0810
FJ	0.8060	0.0970
FK	0.7530	0.0810
FL	0.7440	0.0810
FM	0.6950	0.0850
FN	0.7300	0.0750
FO	0.7520	0.0780
FP	0.7450	0.0850
FQ	0.7930	0.1270
FR	0.7950	0.1200
FS	0.7540	0.1030
FT	0.7490	0.1050
FU	0.7940	0.1160
FV	0.7920	0.1070
FW	0.7470	0.0880
FX	0.7630	0.1100
FY	0.7420	0.0880
FZ	0.7860	0.1010

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Chain	Atom inclusion	Q-score
Fa	0.7840	0.0870
Fb	0.7630	0.0960
Fc	0.7550	0.0890
Fd	0.7720	0.0910
Fe	0.7900	0.0930
Ff	0.7630	0.1010
Fg	0.7650	0.1010
Fh	0.7670	0.0800
Fi	0.7420	0.0880
Fj	0.7950	0.0900
Fk	0.8100	0.0950
Fl	0.7750	0.0960
Fm	0.7540	0.0730
Fn	0.7430	0.0860
Fo	0.7980	0.0900
Fp	0.7950	0.0750
Fq	0.7990	0.0840
Fr	0.7680	0.0940
Fs	0.7390	0.0860
Ft	0.7560	0.0830
Fu	0.7140	0.0740
Fv	0.7790	0.0950
Fw	0.7770	0.0790
Fx	0.7960	0.0920
Fy	0.7680	0.0900
Fz	0.8090	0.0900
GA	0.7160	0.0580
GB	0.7600	0.0840
GC	0.7710	0.0950
GD	0.7710	0.0830
GE	0.7650	0.0950
GF	0.7770	0.0820
GG	0.7810	0.0940
GH	0.6740	0.0740
GI	0.7810	0.0790
GJ	0.7550	0.0920
GK	0.7820	0.0910
GL	0.7650	0.0730
GM	0.8030	0.0980
GN	0.7240	0.0770
GO	0.7650	0.0770
GP	0.7180	0.0910

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Chain	Atom inclusion	Q-score
GQ	0.7590	0.0830
GR	0.7990	0.0900
GS	0.7540	0.0860
GT	0.7100	0.0780
GU	0.8220	0.0930
GV	0.8240	0.0790
GW	0.7560	0.0970
GX	0.7210	0.0690
GY	0.7680	0.0910
GZ	0.7590	0.0760
Ga	0.7710	0.0760
Gb	0.7090	0.0610
Gc	0.6630	0.0700
Gd	0.7760	0.0900
Ge	0.6850	0.0620
Gf	0.7320	0.0700
Gg	0.7470	0.0720
Gh	0.7740	0.0980
Gi	0.7330	0.0780
Gj	0.7100	0.0750
Gk	0.6500	0.0660
Gl	0.7500	0.0800
Gm	0.7160	0.0790
Gn	0.7240	0.0700
Go	0.7180	0.0680
Gp	0.7870	0.1180
Gq	0.7260	0.0960
Gr	0.8080	0.0960
Gs	0.7130	0.0940
Gt	0.7720	0.0840
Gu	0.6900	0.0770
Gv	0.6830	0.0650
Gw	0.7310	0.0750
Gx	0.7890	0.0750
Gy	0.7430	0.0700
Gz	0.7940	0.0890
HA	0.7150	0.0680
HB	0.7500	0.0600
HC	0.7450	0.0650
HD	0.7840	0.0750
HE	0.7280	0.0850
HF	0.7300	0.0780

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Chain	Atom inclusion	Q-score
HG	0.8340	0.0830
HH	0.7990	0.0660
HI	0.7850	0.0810
HJ	0.7300	0.0690
HK	0.8200	0.0710
HL	0.7540	0.0630
HM	0.7240	0.0590
HN	0.7560	0.0670
HO	0.8040	0.0890
HP	0.7500	0.0740
HQ	0.7820	0.0900
HR	0.7260	0.0850
HS	0.7430	0.0860
HT	0.7740	0.0640
HU	0.7980	0.0620
HV	0.7040	0.0650
HW	0.7430	0.0770
HX	0.7300	0.0750
HY	0.7330	0.0850
HZ	0.7570	0.0750
Ha	0.8000	0.0710
Hb	0.7240	0.0670
Hc	0.7090	0.0740
Hd	0.8010	0.0680
He	0.7940	0.0730
Hf	0.7530	0.0780
Hg	0.7350	0.0680
Hh	0.7960	0.0800
Hi	0.7860	0.1050
Hj	0.7870	0.0900
Hk	0.8080	0.0780
Hl	0.7900	0.0790
Hm	0.8080	0.0980
Hn	0.7870	0.0750
Ho	0.8130	0.0830
Hp	0.7830	0.0860
Hq	0.7040	0.0660
Hr	0.7880	0.0820
Hs	0.7420	0.0770
Ht	0.7750	0.0860
Hu	0.7670	0.0710
Hv	0.7570	0.0820

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Chain	Atom inclusion	Q-score
Hw	0.7810	0.0760
Hx	0.7780	0.0790
Hy	0.7560	0.0700
Hz	0.5850	0.1230
IA	0.6480	0.1020
IB	0.6740	0.1220
IC	0.4660	0.1000
ID	0.7560	0.1240
IE	0.6940	0.1270
IF	0.6350	0.1160
IG	0.6250	0.1230
IH	0.5800	0.1070
II	0.6970	0.1310
IJ	0.6060	0.1080
IK	0.7620	0.1380
IL	0.4690	0.0920
IM	0.7360	0.1300
IN	0.7040	0.1100
IO	0.7780	0.1520
IP	0.6610	0.1060
IQ	0.5800	0.1170
IR	0.7200	0.1060
IS	0.7290	0.1170
IT	0.6250	0.0660
IU	0.7650	0.1450
IV	0.6220	0.0990
IW	0.6470	0.1040
IX	0.6700	0.1200
IY	0.7790	0.1130
IZ	0.8220	0.1380
Ia	0.7230	0.1290
Ib	0.8020	0.1690
Ic	0.6610	0.1370
Id	0.7040	0.1370
Ie	0.6970	0.1390
If	0.7230	0.1220
Ig	0.6870	0.1100
Ih	0.7430	0.1340
Ii	0.7170	0.1070
Ij	0.6250	0.0770
Ik	0.7070	0.1230
Il	0.3620	0.0940

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Chain	Atom inclusion	Q-score
Im	0.6580	0.1130
In	0.6770	0.1250
Io	0.6970	0.1400
Ip	0.7600	0.1370
Iq	0.4130	0.1190
Ir	0.8110	0.1510
Is	0.6760	0.1220
It	0.6840	0.1170
Iu	0.7820	0.1310
Iv	0.6220	0.0820
Iw	0.6960	0.1080
Ix	0.6940	0.1100
Iy	0.6670	0.0870
Iz	0.7910	0.1460
JA	0.6780	0.1130
JB	0.6480	0.1020
JC	0.6710	0.1350
JD	0.7160	0.1400
JE	0.7520	0.1460
JF	0.5700	0.1040
JG	0.7490	0.1440
JH	0.7330	0.1070
JI	0.6970	0.1300
JJ	0.7490	0.1140
JK	0.8090	0.1410
JL	0.5770	0.0910
JM	0.6770	0.0970
JN	0.6960	0.1200
JO	0.6350	0.1250
JP	0.7250	0.1390
JQ	0.7070	0.1300
JR	0.6870	0.1080
JS	0.6960	0.1240
JT	0.7070	0.1390
JU	0.5770	0.0830
JV	0.7050	0.0980
JW	0.6160	0.0780
JX	0.6480	0.0900
JY	0.6810	0.1080
JZ	0.6220	0.1230
Ja	0.6510	0.0690
Jb	0.6220	0.0680

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Chain	Atom inclusion	Q-score
Jc	0.7310	0.1380
Jd	0.6740	0.0980
Je	0.7550	0.0960
Jf	0.7670	0.1010
Jg	0.7550	0.1020
Jh	0.7250	0.0860
Ji	0.7420	0.0680
Jj	0.7370	0.0840
Jk	0.7330	0.0720
Jl	0.7010	0.0740
Jm	0.7160	0.0790
Jn	0.7400	0.0580
Jo	0.7730	0.0680
Jp	0.7630	0.0730
Jq	0.7500	0.0810
Jr	0.7000	0.0670
Js	0.7180	0.0740
Jt	0.7520	0.0720
Ju	0.7560	0.0890
Jv	0.7340	0.0850
Jw	0.7370	0.0750
Jx	0.6560	0.0770
Jy	0.7670	0.0820
Jz	0.7400	0.0640
KA	0.7350	0.0740
KB	0.7360	0.0790
KC	0.7360	0.0740
KD	0.7400	0.0760
KE	0.7370	0.0690
KF	0.7960	0.1380
KG	0.8240	0.1270
KH	0.7630	0.1060
KI	0.7730	0.1030
KJ	0.8050	0.1180
KK	0.7580	0.0970
KL	0.7350	0.0900
KM	0.7830	0.1050
KN	0.7420	0.0980
KO	0.7720	0.0980
KP	0.7720	0.0870
KQ	0.7520	0.0960
KR	0.7590	0.0800

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Chain	Atom inclusion	Q-score
KS	0.7470	0.0920
KT	0.7800	0.0880
KU	0.7560	0.1110
KV	0.7420	0.1000
KW	0.7390	0.0880
KX	0.7610	0.0910
KY	0.7730	0.0910
KZ	0.7670	0.0870
Ka	0.7720	0.0940
Kb	0.7350	0.0800
Kc	0.7560	0.0960
Kd	0.8060	0.1100
Ke	0.7530	0.0820
Kf	0.7960	0.0800
Kg	0.7750	0.0890
Kh	0.7550	0.0860
Ki	0.7830	0.0870
Kj	0.7430	0.0850
Kk	0.8040	0.1030
Kl	0.7500	0.0900
Km	0.7630	0.0820
Kn	0.7550	0.0870
Ko	0.8050	0.0940
Kp	0.7530	0.0790
Kq	0.8100	0.0920
Kr	0.7740	0.0900
Ks	0.7770	0.0760
Kt	0.7460	0.0960
Ku	0.8000	0.0900
Kv	0.7850	0.0830
Kw	0.7300	0.0800
Kx	0.7340	0.0840
Ky	0.7260	0.0730
Kz	0.7630	0.0930
LA	0.7550	0.0830
LB	0.7850	0.0930
LC	0.6970	0.0730
LD	0.7550	0.0710
LE	0.7440	0.0790
LF	0.7590	0.0780
LG	0.7590	0.0810
LH	0.7790	0.0680

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Chain	Atom inclusion	Q-score
LI	0.7340	0.0850
LJ	0.8260	0.0950
LK	0.8020	0.0900
LL	0.7630	0.0790
LM	0.7470	0.0820
LN	0.7350	0.0840
LO	0.7240	0.0710
LP	0.7560	0.0800
LQ	0.6820	0.0600
LR	0.6720	0.0670
LS	0.7400	0.0460
LT	0.6280	0.0630
LU	0.7680	0.0580
LV	0.7360	0.0600
LW	0.7580	0.0710
LX	0.7380	0.0840
LY	0.6350	0.0600
LZ	0.6850	0.0640
La	0.7630	0.0630
Lb	0.7430	0.0880
Lc	0.7770	0.1030
Ld	0.7250	0.0500
Le	0.7080	0.1070
Lf	0.7770	0.1160
Lg	0.7980	0.0790
Lh	0.6920	0.0800
Li	0.7130	0.0930
Lj	0.6630	0.0620
Lk	0.7540	0.0960
Ll	0.7500	0.0650
Lm	0.7840	0.0940
Ln	0.7680	0.0880
Lo	0.8140	0.0860
Lp	0.7760	0.1020
Lq	0.7850	0.0790
Lr	0.7290	0.0830
Ls	0.7690	0.0810
Lt	0.7650	0.0780
Lu	0.6590	0.0750
Lv	0.8060	0.0790
Lw	0.7760	0.0760
Lx	0.7910	0.0930

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Chain	Atom inclusion	Q-score
Ly	0.7640	0.0780
Lz	0.8490	0.0790
MA	0.7380	0.0550
MB	0.7660	0.0800
MC	0.7190	0.0710
MD	0.8230	0.0800
ME	0.7640	0.0870
MF	0.8170	0.0870
MG	0.7380	0.0810
MH	0.7250	0.0660
MI	0.7530	0.0670
MJ	0.7650	0.0600
MK	0.7090	0.0740
ML	0.6960	0.0620
MM	0.7060	0.0820
MN	0.7840	0.0960
MO	0.8210	0.0830
MP	0.7680	0.0590
MQ	0.7680	0.0550
MR	0.7630	0.0580
MS	0.8490	0.0720
MT	0.7940	0.0680
MU	0.7580	0.0770
MV	0.6920	0.0520
MW	0.7340	0.0550
MX	0.8030	0.1310
MY	0.7650	0.0980
MZ	0.7890	0.0750
Ma	0.7860	0.0830
Mb	0.8240	0.0780
Mc	0.7480	0.0710
Md	0.7830	0.0800
Me	0.7430	0.0710
Mf	0.7230	0.0790
Mg	0.7960	0.0760
Mh	0.7690	0.0840
Mi	0.7830	0.0800
Mj	0.7570	0.0740
Mk	0.7350	0.0790
Ml	0.7580	0.0750
Mm	0.7140	0.0550
Mn	0.7850	0.0730

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Chain	Atom inclusion	Q-score
Mo	0.6120	0.1430
Mp	0.6290	0.1020
Mq	0.6810	0.1410
Mr	0.4820	0.1030
Ms	0.7200	0.1300
Mt	0.6250	0.1300
Mu	0.5110	0.1260
Mv	0.5830	0.0920
Mw	0.6160	0.1140
Mx	0.5730	0.0690
My	0.5310	0.0440
Mz	0.7100	0.1200
NA	0.3990	0.0600
NB	0.7360	0.1150
NC	0.7170	0.1210
ND	0.6740	0.1040
NE	0.6250	0.0850
NF	0.5240	0.0840
NG	0.7750	0.1120
NH	0.6900	0.1260
NI	0.6550	0.1020
NJ	0.7910	0.1460
NK	0.6580	0.0830
NL	0.6630	0.0970
NM	0.6820	0.0890
NN	0.6510	0.0780
NO	0.7950	0.1360
NP	0.7070	0.1350
NQ	0.8140	0.1430
NR	0.6550	0.1320
NS	0.7590	0.1450
NT	0.7490	0.1470
NU	0.7520	0.1260
NV	0.7360	0.1650
NW	0.8340	0.1460
NX	0.7300	0.1310
NY	0.6640	0.1020
NZ	0.6770	0.1360
Na	0.3750	0.0970
Nb	0.7460	0.1230
Nc	0.7820	0.1450
Nd	0.7460	0.1600

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Chain	Atom inclusion	Q-score
Ne	0.6550	0.1230
Nf	0.6190	0.1230
Ng	0.7390	0.1340
Nh	0.8020	0.1360
Ni	0.6680	0.0770
Nj	0.7390	0.1360
Nk	0.6380	0.0780
Nl	0.6520	0.1360
Nm	0.7170	0.1290
Nn	0.6470	0.1060
No	0.8180	0.1400
Np	0.7370	0.1380
Nq	0.6380	0.0800
Nr	0.7590	0.1230
Ns	0.7370	0.1280
Nt	0.6710	0.0880
Nu	0.6610	0.0970
Nv	0.7280	0.1390
Nw	0.6910	0.1080
Nx	0.7330	0.1150
Ny	0.7880	0.1390
Nz	0.7520	0.1450
OA	0.7780	0.0930
OB	0.5900	0.0640
OC	0.6960	0.1230
OD	0.7230	0.1260
OE	0.6870	0.1140
OF	0.5930	0.0740
OG	0.6380	0.0850
OH	0.7190	0.1320
OI	0.7720	0.1150
OJ	0.6040	0.0380
OK	0.7520	0.1360
OL	0.6770	0.1340
OM	0.6320	0.1290
ON	0.7470	0.1460
OO	0.7950	0.1370
OP	0.7000	0.0730
OQ	0.5670	0.0790
OR	0.6870	0.1260
OS	0.5470	0.0840
OT	0.7690	0.1000

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Chain	Atom inclusion	Q-score
OU	0.7750	0.0950
OV	0.7970	0.1070
OW	0.7100	0.0780
OX	0.7220	0.0660
OY	0.7800	0.0880
OZ	0.7470	0.0680
Oa	0.6900	0.0610
Ob	0.7450	0.0910
Oc	0.6890	0.0670
Od	0.7270	0.0680
Oe	0.7150	0.0660
Of	0.7250	0.0800
Og	0.7210	0.0870
Oh	0.7150	0.0710
Oi	0.7090	0.0640
Oj	0.7240	0.0730
Ok	0.7200	0.0820
Ol	0.7390	0.0710
Om	0.7330	0.0800
On	0.7710	0.0780
Oo	0.7410	0.0680
Op	0.7160	0.0710
Oq	0.6910	0.0610
Or	0.7160	0.0700
Os	0.7570	0.0820
Ot	0.7320	0.0690
Ou	0.8040	0.1360
Ov	0.8140	0.1270
Ow	0.7640	0.1060
Ox	0.7850	0.1120
Oy	0.8030	0.1080
Oz	0.7790	0.0940
PA	0.7410	0.0950
PB	0.7540	0.1150
PC	0.7480	0.0950
PD	0.7730	0.0960
PE	0.7770	0.0810
PF	0.7930	0.0900
PG	0.7730	0.0810
PH	0.7590	0.0880
PI	0.7850	0.0870
PJ	0.7860	0.1170

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Chain	Atom inclusion	Q-score
PK	0.7660	0.1050
PL	0.7980	0.0860
PM	0.7520	0.0800
PN	0.7700	0.0900
PO	0.7740	0.0900
PP	0.7750	0.0920
PQ	0.7720	0.0780
PR	0.7430	0.1000
PS	0.8360	0.0970
PT	0.8020	0.0780
PU	0.8010	0.0780
PV	0.7810	0.0840
PW	0.7330	0.0840
PX	0.7850	0.0830
PY	0.7310	0.0660
PZ	0.8090	0.0960
Pa	0.8040	0.0910
Pb	0.8070	0.0990
Pc	0.7920	0.0900
Pd	0.8160	0.0830
Pe	0.7480	0.0910
Pf	0.7920	0.0960
Pg	0.7900	0.0880
Ph	0.7870	0.0810
Pi	0.7830	0.0900
Pj	0.7600	0.0800
Pk	0.7610	0.0920
Pl	0.6980	0.0740
Pm	0.7660	0.0730
Pn	0.7510	0.0840
Po	0.7420	0.0780
Pp	0.7800	0.0760
Pq	0.8120	0.0950
Pr	0.7190	0.0720
Ps	0.7690	0.0740
Pt	0.7080	0.0750
Pu	0.7460	0.0650
Pv	0.7690	0.0760
Pw	0.7420	0.0700
Px	0.7500	0.0760
Py	0.8060	0.0950
Pz	0.8160	0.0880

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Chain	Atom inclusion	Q-score
QA	0.7140	0.0830
QB	0.7580	0.0630
QC	0.7790	0.0760
QD	0.7390	0.0470
QE	0.7750	0.0430
QF	0.6600	0.0660
QG	0.6530	0.0560
QH	0.6790	0.0530
QI	0.6500	0.0660
QJ	0.6970	0.0760
QK	0.6760	0.0680
QL	0.7280	0.0590
QM	0.6340	0.0490
QN	0.7660	0.0620
QO	0.7300	0.0460
QP	0.8260	0.0670
QQ	0.6990	0.0710
QR	0.7360	0.0720
QS	0.7130	0.0590
QT	0.7830	0.1150
QU	0.7560	0.1160
QV	0.7810	0.0850
QW	0.7250	0.0790
QX	0.7310	0.0810
QY	0.7040	0.0740
QZ	0.7290	0.0860
Qa	0.8130	0.0740
Qb	0.7910	0.0960
Qc	0.7590	0.0870
Qd	0.8230	0.0920
Qe	0.7350	0.0840
Qf	0.7530	0.0790
Qg	0.7340	0.0720
Qh	0.7710	0.0920
Qi	0.7500	0.0910
Qj	0.7310	0.0760
Qk	0.8460	0.0790
Ql	0.7790	0.0620
Qm	0.7510	0.0720
Qn	0.7330	0.0630
Qo	0.8010	0.0670
Qp	0.7780	0.0770

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Chain	Atom inclusion	Q-score
Qq	0.7750	0.0720
Qr	0.7210	0.0710
Qs	0.7910	0.0650
Qt	0.7440	0.0670
Qu	0.7920	0.0610
Qv	0.7400	0.0750
Qw	0.7280	0.0750
Qx	0.7010	0.0600
Qy	0.7940	0.0750
Qz	0.7050	0.0690
RA	0.6970	0.0610
RB	0.7120	0.0480
RC	0.7750	0.0870
RD	0.7800	0.0600
RE	0.7880	0.0670
RF	0.7380	0.0710
RG	0.6690	0.0760
RH	0.7880	0.0610
RI	0.7550	0.0740
RJ	0.7600	0.0570
RK	0.7050	0.0530
RL	0.7250	0.0570
RM	0.8410	0.1230
RN	0.7950	0.1060
RO	0.7890	0.0970
RP	0.7990	0.0790
RQ	0.8190	0.0820
RR	0.8410	0.0980
RS	0.8090	0.0860
RT	0.7930	0.0820
RU	0.7700	0.0930
RV	0.8100	0.0820
RW	0.7580	0.0590
RX	0.7590	0.0640
RY	0.7430	0.0640
RZ	0.7190	0.0640
Ra	0.7760	0.0780
Rb	0.7540	0.0750
Rc	0.7820	0.0790
Rd	0.5350	0.1110
Re	0.6870	0.1160
Rf	0.5730	0.1300

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Chain	Atom inclusion	Q-score
Rg	0.4200	0.0220
Rh	0.7000	0.1230
Ri	0.6220	0.1200
Rj	0.5440	0.1150
Rk	0.5410	0.0890
Rl	0.5600	0.0840
Rm	0.5930	0.1080
Rn	0.6090	0.0600
Ro	0.7130	0.1410
Rp	0.5310	0.0840
Rq	0.6740	0.0980
Rr	0.6770	0.1190
Rs	0.7620	0.1290
Rt	0.6350	0.0930
Ru	0.5210	0.0620
Rv	0.8050	0.1060
Rw	0.6090	0.0790
Rx	0.5700	0.0700
Ry	0.7260	0.1350
Rz	0.7070	0.0650
SA	0.6740	0.1150
SB	0.6630	0.0760
SC	0.6590	0.1160
SD	0.7750	0.1500
SE	0.6910	0.1240
SF	0.8020	0.1630
SG	0.7000	0.1020
SH	0.7040	0.1140
SI	0.7620	0.1500
SJ	0.7070	0.1060
SK	0.7460	0.1220
SL	0.7000	0.1230
SM	0.7690	0.1350
SN	0.6060	0.0690
SO	0.7260	0.1500
SP	0.3170	0.0730
SQ	0.7260	0.1140
SR	0.6840	0.1390
SS	0.7360	0.1580
ST	0.7100	0.1310
SU	0.5420	0.0880
SV	0.7390	0.1270

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Chain	Atom inclusion	Q-score
SW	0.6840	0.0930
SX	0.6510	0.0920
SY	0.8130	0.1500
SZ	0.7000	0.0980
Sa	0.7370	0.1410
Sb	0.7170	0.1350
Sc	0.7290	0.1120
Sd	0.7870	0.1170
Se	0.7880	0.1530
Sf	0.7490	0.0950
Sg	0.7000	0.0980
Sh	0.7100	0.1100
Si	0.6970	0.1200
Sj	0.6090	0.0720
Sk	0.7460	0.1490
Sl	0.8090	0.1230
Sm	0.6810	0.1090
Sn	0.7520	0.1500
So	0.6220	0.1080
Sp	0.6450	0.0930
Sq	0.6510	0.1030
Sr	0.7340	0.1440
Ss	0.7170	0.1360
St	0.6990	0.1250
Su	0.5640	0.0740
Sv	0.6030	0.0870
Sw	0.6600	0.1260
Sx	0.6770	0.1180
Sy	0.6580	0.1110
Sz	0.6720	0.1070
TA	0.6580	0.1120
TB	0.6550	0.1000
TC	0.7550	0.1470
TD	0.6870	0.1220
TE	0.6420	0.0690
TF	0.5370	0.0710
TG	0.6570	0.1130
TH	0.6320	0.1080
TI	0.7660	0.0950
TJ	0.7570	0.0950
TK	0.7690	0.0980
TL	0.7000	0.0770

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Chain	Atom inclusion	Q-score
TM	0.7540	0.0770
TN	0.7590	0.0770
TO	0.7650	0.0700
TP	0.6890	0.0750
TQ	0.7160	0.0740
TR	0.6840	0.0650
TS	0.7590	0.0800
TT	0.7370	0.0680
TU	0.7250	0.0770
TV	0.7530	0.0630
TW	0.7340	0.0760
TX	0.7200	0.0650
TY	0.7470	0.0780
TZ	0.7800	0.0950
Ta	0.7470	0.0750
Tb	0.7060	0.0670
Tc	0.7580	0.0760
Td	0.7300	0.0740
Te	0.7100	0.0750
Tf	0.6870	0.0600
Tg	0.6870	0.0650
Th	0.7290	0.0770
Ti	0.7310	0.0640
Tj	0.7930	0.1290
Tk	0.8060	0.1340
Tl	0.7660	0.1020
Tm	0.7740	0.1080
Tn	0.7860	0.1110
To	0.7770	0.0900
Tp	0.7300	0.0840
Tq	0.7870	0.1090
Tr	0.7300	0.0830
Ts	0.7410	0.0890
Tt	0.7790	0.0890
Tu	0.7650	0.0920
Tv	0.7860	0.0870
Tw	0.7780	0.0920
Tx	0.7600	0.0770
Ty	0.7430	0.1010
Tz	0.7660	0.1020
UA	0.7730	0.0770
UB	0.7670	0.1000

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Chain	Atom inclusion	Q-score
UC	0.7670	0.0910
UD	0.7900	0.0750
UE	0.8010	0.0890
UF	0.7590	0.0830
UG	0.7410	0.0740
UH	0.8100	0.1020
UI	0.7670	0.0760
UJ	0.7820	0.0760
UK	0.7570	0.0870
UL	0.7000	0.0730
UM	0.7640	0.0740
UN	0.7240	0.0630
UO	0.7990	0.0850
UP	0.7770	0.0750
UQ	0.7930	0.0930
UR	0.7590	0.0910
US	0.7760	0.0790
UT	0.7380	0.0730
UU	0.7870	0.1010
UV	0.7770	0.0840
UW	0.7860	0.0810
UX	0.7640	0.0760
UY	0.7690	0.0730
UZ	0.7860	0.0850
Ua	0.6990	0.0720
Ub	0.7430	0.0640
Uc	0.7330	0.0820
Ud	0.7690	0.0900
Ue	0.7040	0.0700
Uf	0.7840	0.0650
Ug	0.6990	0.0520
Uh	0.7220	0.0690
Ui	0.7190	0.0780
Uj	0.7210	0.0860
Uk	0.7440	0.0780
Ul	0.7360	0.0710
Um	0.7200	0.0760
Un	0.8440	0.0880
Uo	0.8360	0.0870
Up	0.6970	0.0730
Uq	0.7870	0.0640
Ur	0.7700	0.0900

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Chain	Atom inclusion	Q-score
Us	0.7770	0.0660
Ut	0.8340	0.0690
Uu	0.7120	0.0580
Uv	0.6670	0.0660
Uw	0.7200	0.0600
Ux	0.6320	0.0540
Uy	0.7320	0.0520
Uz	0.7400	0.0580
VA	0.7190	0.0680
VB	0.6790	0.0660
VC	0.7440	0.0820
VD	0.7410	0.0730
VE	0.7930	0.0650
VF	0.7060	0.0700
VG	0.7220	0.0650
VH	0.6940	0.0580
VI	0.6980	0.1080
VJ	0.7340	0.0940
VK	0.7900	0.0920
VL	0.7530	0.0860
VM	0.7310	0.0960
VN	0.6880	0.0690
VO	0.7270	0.0850
VP	0.7230	0.0700
VQ	0.7940	0.0770
VR	0.7690	0.0880
VS	0.7980	0.0830
VT	0.7610	0.0920
VU	0.7550	0.0760
VV	0.7300	0.0730
VW	0.7690	0.1080
VX	0.7540	0.0750
VY	0.7620	0.0810
VZ	0.7680	0.0660
Va	0.7290	0.0720
Vb	0.7460	0.0750
Vc	0.7540	0.0780
Vd	0.7850	0.0780
Ve	0.7620	0.0800
Vf	0.7330	0.0760
Vg	0.7000	0.0740
Vh	0.7990	0.0740

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Chain	Atom inclusion	Q-score
Vi	0.7380	0.0810
Vj	0.8360	0.0640
Vk	0.7850	0.0770
Vl	0.7210	0.0810
Vm	0.7170	0.0720
Vn	0.7460	0.0630
Vo	0.7050	0.0540
Vp	0.7430	0.0790
Vq	0.7130	0.0850
Vr	0.7760	0.0850
Vs	0.7850	0.0620
Vt	0.7720	0.0600
Vu	0.7430	0.0610
Vv	0.7360	0.0750
Vw	0.7750	0.0590
Vx	0.7770	0.0700
Vy	0.7410	0.0570
Vz	0.7040	0.0700
WA	0.7110	0.0720
WB	0.8170	0.1120
WC	0.8120	0.1010
WD	0.8030	0.0710
WE	0.8280	0.0870
WF	0.7700	0.0820
WG	0.7790	0.0820
WH	0.7790	0.0760
WI	0.7990	0.0730
WJ	0.7140	0.0720
WK	0.8150	0.0870
WL	0.6910	0.0700
WM	0.7730	0.0830
WN	0.7540	0.0620
WO	0.7370	0.0780
WP	0.7380	0.0670
WQ	0.7680	0.0690
WR	0.7490	0.0480
WS	0.6390	0.1210
WT	0.6320	0.0960
WU	0.6380	0.1190
WV	0.4200	0.0640
WW	0.6810	0.1160
WX	0.7230	0.1270

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Chain	Atom inclusion	Q-score
WY	0.4140	0.1110
WZ	0.5570	0.1060
Wa	0.5600	0.0790
Wb	0.4850	0.0710
Wc	0.5600	0.0820
Wd	0.7780	0.1270
We	0.4500	0.1070
Wf	0.7620	0.1330
Wg	0.7070	0.1170
Wh	0.7430	0.1140
Wi	0.5370	0.0720
Wj	0.4530	0.0680
Wk	0.7880	0.1380
Wl	0.6590	0.0810
Wm	0.6030	0.0720
Wn	0.7130	0.1100
Wo	0.6840	0.1110
Wp	0.6900	0.1130
Wq	0.5850	0.0540
Wr	0.6510	0.0720
Ws	0.8370	0.1540
Wt	0.6910	0.1230
Wu	0.8100	0.1610
Wv	0.7490	0.1230
Ww	0.7000	0.1290
Wx	0.7520	0.1430
Wy	0.6580	0.1230
Wz	0.6510	0.0970
XA	0.7720	0.1300
XB	0.7430	0.1250
XC	0.6580	0.0810
XD	0.7460	0.1300
XE	0.4330	0.1120
XF	0.6910	0.1170
XG	0.7230	0.1170
XH	0.7590	0.1600
XI	0.7430	0.1260
XJ	0.4370	0.0990
XK	0.7330	0.1410
XL	0.6720	0.1100
XM	0.6640	0.1180
XN	0.7460	0.1170

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Chain	Atom inclusion	Q-score
XO	0.7100	0.1030
XP	0.7570	0.1210
XQ	0.7290	0.1320
XR	0.6470	0.0900
XS	0.8370	0.1480
XT	0.7190	0.1110
XU	0.7160	0.1020
XV	0.6970	0.1290
XW	0.7220	0.1240
XX	0.7100	0.0930
XY	0.7330	0.1060
XZ	0.7020	0.1100
Xa	0.6580	0.0980
Xb	0.7100	0.0850
Xc	0.7190	0.1260
Xd	0.6320	0.1040
Xe	0.7000	0.1120
Xf	0.6680	0.1000
Xg	0.7270	0.1170
Xh	0.6810	0.1200
Xi	0.7940	0.1260
Xj	0.6090	0.0740
Xk	0.6030	0.0930
Xl	0.7730	0.1340
Xm	0.7590	0.1030
Xn	0.6450	0.0950
Xo	0.6990	0.1060
Xp	0.6550	0.0810
Xq	0.6380	0.1050
Xr	0.6240	0.1110
Xs	0.6940	0.1230
Xt	0.5700	0.0400
Xu	0.5830	0.0750
Xv	0.7640	0.1180
Xw	0.7430	0.1160
Xx	0.7680	0.1200
Xy	0.7340	0.1230
Xz	0.7310	0.1120
YA	0.7540	0.1240
YB	0.7580	0.1190
YC	0.7410	0.1130
YD	0.7410	0.1200

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Chain	Atom inclusion	Q-score
YE	0.7670	0.1120
YF	0.7310	0.1170
YG	0.7520	0.1180
YH	0.7650	0.1240
YI	0.7750	0.1270
YJ	0.7230	0.1550
YK	0.7110	0.1460
YL	0.6460	0.0930
YM	0.5170	0.1290
YN	0.6270	0.1190
YO	0.5000	0.0990
YP	0.6570	0.1340
YQ	0.7010	0.1190
YR	0.7500	0.1280
YS	0.6880	0.1230
YT	0.3420	0.0740
YU	0.4800	0.0830
YV	0.5540	0.0640
YW	0.4630	0.1050
YX	0.6550	0.1350
YY	0.5910	0.1330
YZ	0.7070	0.1140
Ya	0.3670	0.0540
Yb	0.2540	0.0430
Yc	0.5390	0.0530
Yd	0.4930	0.0620
Ye	0.6040	0.0800
Yf	0.5290	0.0710
Yg	0.5930	0.0660
Yh	0.3730	0.0440
Yi	0.6230	0.0930
Yj	0.6310	0.0860
Yk	0.7340	0.1090
Yl	0.5110	0.1090
Ym	0.7610	0.1360
Yn	0.5830	0.1080
Yo	0.7190	0.1110
Yp	0.5810	0.1040
Yq	0.5760	0.1190
Yr	0.3200	0.0830
Ys	0.7650	0.1090
Yt	0.6460	0.1080

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Chain	Atom inclusion	Q-score
Yu	0.7530	0.1010
Yv	0.6190	0.1110
Yw	0.5380	0.0920
Yx	0.2950	0.0780
Yy	0.7830	0.1160
Yz	0.6620	0.1110
ZA	0.8020	0.1080
ZB	0.6940	0.1020
ZC	0.6670	0.1020
ZD	0.4790	0.0720
ZE	0.4650	0.0580
ZF	0.3560	0.0910
ZG	0.7190	0.0970
ZH	0.6700	0.0970
ZI	0.7160	0.0940
ZJ	0.5300	0.0810
ZK	0.3710	0.0660
ZL	0.2190	0.0870
ZM	0.7050	0.0890
ZN	0.6500	0.1030
ZO	0.8350	0.1130
ZP	0.6860	0.0930
ZQ	0.7680	0.1370
ZR	0.7430	0.1460
ZS	0.8070	0.1360
ZT	0.8090	0.1450
ZU	0.8430	0.1420
ZV	0.7360	0.1240
ZW	0.8020	0.1370
ZX	0.7700	0.1310
ZY	0.8060	0.1230
ZZ	0.7560	0.1290
Za	0.7990	0.1430
Zb	0.7590	0.1400
Zc	0.7760	0.1490
Zd	0.7770	0.1330
Ze	0.8230	0.1420
Zf	0.7590	0.1530
Zg	0.8200	0.1530
Zh	0.7510	0.1510
Zi	0.8190	0.1430
Zj	0.8540	0.1520

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Chain	Atom inclusion	Q-score
Zk	0.8140	0.1500
Zl	0.7230	0.1200
Zm	0.8190	0.1510
Zn	0.7340	0.1430
Zo	0.7700	0.1290
Zp	0.8170	0.1360
Zq	0.7890	0.1510
Zr	0.7730	0.1350
Zs	0.7600	0.1280
Zt	0.7660	0.1270
Zu	0.7380	0.1230
Zv	0.7300	0.1290
Zw	0.7930	0.1470
Zx	0.6620	0.1220
Zy	0.7730	0.1120
Zz	0.7770	0.1330
aA	0.7500	0.1350
aB	0.7680	0.1270
aC	0.7800	0.1410
aD	0.5760	0.1310
aE	0.7870	0.1370
aF	0.7050	0.1200
aG	0.8050	0.1390
aH	0.7820	0.1370
aI	0.7360	0.1330
aJ	0.6460	0.1370
aK	0.7440	0.1120
aL	0.6540	0.1200
aM	0.7900	0.1460
aN	0.7750	0.1320
aO	0.7690	0.1360
aP	0.7140	0.1330
aQ	0.8140	0.1380
aR	0.7300	0.1180
aS	0.8340	0.1550
aT	0.7990	0.1370
aU	0.8040	0.1440
aV	0.7500	0.1410
aW	0.7870	0.1510
aX	0.6810	0.1360
aY	0.8040	0.1450
aZ	0.7630	0.1370

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Chain	Atom inclusion	Q-score
aa	0.7960	0.1370
ab	0.7700	0.1430
ac	0.6850	0.0940
ad	0.5870	0.1190
ae	0.5950	0.1020
af	0.3630	0.0920
ag	0.7080	0.1110
ah	0.3250	0.0770
ai	0.5820	0.1010
aj	0.5680	0.1090
ak	0.4860	0.0930
al	0.2440	0.0960
am	0.6450	0.1090
an	0.2260	0.0750
ao	0.6550	0.1180
ap	0.5030	0.0800
aq	0.5580	0.1180
ar	0.4300	0.0910
as	0.7010	0.1330
at	0.4310	0.1000
au	0.7170	0.1150
av	0.6090	0.1080
aw	0.7410	0.1240
ax	0.6270	0.1200
ay	0.7130	0.1170
az	0.6030	0.1250
bA	0.7240	0.1240
bB	0.5770	0.0960
bC	0.6500	0.1260
bD	0.4710	0.1110
bE	0.6720	0.1120
bF	0.5160	0.1050
bG	0.7310	0.1320
bH	0.4950	0.1140
bI	0.5050	0.0790
bJ	0.2880	0.0820
bK	0.2890	0.0600
bL	0.0360	0.0560
bM	0.4650	0.0550
bN	0.0480	0.0640
bO	0.4580	0.0650
bP	0.2530	0.0700

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Chain	Atom inclusion	Q-score
bQ	0.1410	0.0740
bR	0.0390	0.0390
bS	0.3580	0.0760
bT	0.0230	0.0250
bU	0.5050	0.0940
bV	0.2000	0.0530
bW	0.4870	0.0920
bX	0.2930	0.0910
bY	0.4500	0.1050
bZ	0.0920	0.0630
ba	0.3430	0.0590
bb	0.0890	0.0590
bc	0.6310	0.1120
bd	0.2220	0.0800
be	0.5820	0.0880
bf	0.2310	0.0820
bg	0.3030	0.0830
bh	0.1410	0.0880
bi	0.4260	0.0620
bj	0.0800	0.0750
bk	0.4180	0.0890
bl	0.1430	0.0590
bm	0.5830	0.0950
bn	0.1790	0.0800
bo	0.4800	0.0660
bp	0.2790	0.0900
bq	0.2790	0.0480
br	0.0970	0.0540
bs	0.3630	0.0660
bt	0.0100	0.0110
bu	0.5400	0.0880
bv	0.1970	0.0660
bw	0.3270	0.0550
bx	0.1500	0.0590
by	0.3660	0.0770
bz	0.0310	0.0290
cA	0.5850	0.1050
cB	0.1140	0.0750
cC	0.6260	0.1160
cD	0.3250	0.0650
cE	0.4680	0.0670
cF	0.2130	0.0690

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Chain	Atom inclusion	Q-score
cG	0.2300	0.0700
cH	0.0090	0.0520
cI	0.7130	0.1050
cJ	0.2500	0.0790
cK	0.5600	0.1050
cL	0.5170	0.0850
cM	0.1490	0.0420
cN	0.0170	0.0320
cO	0.4560	0.0760
cP	0.0460	0.0490
cQ	0.4290	0.0990
cR	0.2460	0.0520
cS	0.4980	0.1000
cT	0.1030	0.0510
cU	0.5150	0.0700
cV	0.4350	0.0770
cW	0.5670	0.0840
cX	0.0850	0.0220
cY	0.6350	0.1040
cZ	0.4930	0.0920
ca	0.5930	0.1010
cb	0.4940	0.0840
cc	0.5220	0.0800
cd	0.1460	0.0910
ce	0.6960	0.1070
cf	0.5860	0.1010
cg	0.7060	0.1190
ch	0.4920	0.1110
ci	0.5950	0.0990
cj	0.3230	0.0790
ck	0.7460	0.1260
cl	0.6370	0.1050
cm	0.4130	0.0850
cn	0.2140	0.0690
co	0.6920	0.1070
cp	0.1960	0.1090
cq	0.7070	0.0960
cr	0.5960	0.1090
cs	0.3160	0.0930
ct	0.1590	0.0710
cu	0.5340	0.0870
cv	0.1190	0.0670

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Chain	Atom inclusion	Q-score
cw	0.6650	0.1020
cx	0.2880	0.0780
cy	0.6700	0.0870
cz	0.4470	0.0900
dA	0.7440	0.1190
dB	0.6080	0.0990
dC	0.7450	0.1150
dD	0.6250	0.1110
dE	0.6960	0.1130
dF	0.3700	0.0810
dG	0.7280	0.1010
dH	0.5190	0.0720
dI	0.6470	0.1100
dJ	0.4930	0.0960
dK	0.7110	0.1150
dL	0.4950	0.0790
dM	0.6890	0.1110
dN	0.5510	0.1010
dO	0.7200	0.1240
dP	0.5790	0.1010
dQ	0.6530	0.0810
dR	0.6130	0.1150
dS	0.6460	0.1040
dT	0.3720	0.1100
dU	0.7500	0.1090
dV	0.6270	0.0920
dW	0.6520	0.0850
dX	0.6770	0.1110
dY	0.4900	0.0910
dZ	0.2150	0.0920
da	0.7190	0.1190
db	0.5670	0.0810
dc	0.7200	0.1170
dd	0.6720	0.1190
de	0.7160	0.1130
df	0.3300	0.0770
dg	0.7320	0.1230
dh	0.5290	0.0930
di	0.6790	0.1020
dj	0.5210	0.1160
dk	0.5900	0.1140
dl	0.5380	0.0900

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Chain	Atom inclusion	Q-score
dm	0.6850	0.1030
dn	0.5570	0.1170
do	0.6620	0.1140
dp	0.5630	0.1150
dq	0.6870	0.1150
dr	0.5440	0.0940
ds	0.6630	0.1050
dt	0.6120	0.1030
du	0.6520	0.1290
dv	0.5430	0.1000
dw	0.7270	0.1180
dx	0.7030	0.1220
dy	0.7250	0.1070
dz	0.6370	0.1220
eA	0.6640	0.0990
eB	0.5910	0.1220
eC	0.6820	0.1040
eD	0.5650	0.1070
eE	0.6550	0.1010
eF	0.5910	0.1060
eG	0.6030	0.0550
eH	0.4440	0.0630
eI	0.5990	0.0830
eJ	0.5040	0.0950
eK	0.6200	0.1120
eL	0.6220	0.1220
eM	0.7370	0.1080
eN	0.6930	0.1200
eO	0.7530	0.1210
eP	0.7140	0.1150
eQ	0.7090	0.1220
eR	0.7550	0.1270
eS	0.7170	0.1250
eT	0.7140	0.1200
eU	0.6170	0.0800
eV	0.6210	0.0780
eW	0.7080	0.1090
eX	0.7230	0.1300
eY	0.7170	0.1140
eZ	0.7190	0.1270
ea	0.7580	0.1180
eb	0.7320	0.1170

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Chain	Atom inclusion	Q-score
ec	0.7740	0.1270
ed	0.7530	0.1220
ee	0.7580	0.1320
ef	0.7840	0.1370
eg	0.7430	0.1420
eh	0.6980	0.1370
ei	0.7520	0.1300
ej	0.7680	0.1310
ek	0.7240	0.1180
el	0.7870	0.1330
em	0.7420	0.1310
en	0.7070	0.1230
eo	0.6960	0.1060
ep	0.7190	0.1210
eq	0.6950	0.1120
er	0.7730	0.1170
es	0.7320	0.1070
et	0.7190	0.0860
eu	0.7360	0.1080
ev	0.7320	0.0900
ew	0.7600	0.1150
ex	0.6540	0.1060
ey	0.7320	0.1120
ez	0.6630	0.0780
fA	0.7220	0.1110
fB	0.7660	0.1030
fC	0.7600	0.1140
fD	0.7190	0.1110
fE	0.7450	0.1030
fF	0.7250	0.1310
fG	0.7580	0.1150
fH	0.6730	0.0810
fI	0.6950	0.1090
fJ	0.7110	0.1190
fK	0.7730	0.1060
fL	0.7640	0.1200
fM	0.7770	0.1340
fN	0.6770	0.0960
fO	0.7000	0.0930
fP	0.6730	0.1120
fQ	0.7200	0.1080
fR	0.6770	0.0990

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Chain	Atom inclusion	Q-score
fS	0.6980	0.1240
fT	0.6850	0.1170
fU	0.7520	0.1230
fV	0.6050	0.0780
fW	0.7400	0.1340
fX	0.6790	0.0840
fY	0.4690	0.0650
fZ	0.3610	0.0790
fa	0.4720	0.0620
fb	0.5550	0.0690
fc	0.6140	0.0760
fd	0.6630	0.0870
fe	0.5240	0.0960
ff	0.4790	0.0620
fg	0.5160	0.0760
fh	0.5690	0.0720
fi	0.6260	0.0920
fj	0.6920	0.0980
fk	0.5610	0.0940
fl	0.5230	0.0740
fm	0.5100	0.0860
fn	0.3860	0.0300
fo	0.5690	0.0830
fp	0.6500	0.0890
fq	0.6410	0.0900
fr	0.6550	0.1040
fs	0.4810	0.0590
ft	0.4720	0.1020
fu	0.6360	0.0900
fv	0.6140	0.0860
fw	0.7200	0.1110
fx	0.6630	0.1040
fy	0.5550	0.0770
fz	0.4480	0.0730
gA	0.5330	0.0650
gB	0.4920	0.0620
gC	0.5690	0.1100
gD	0.5260	0.0600