Full wwPDB EM Validation Report

Aug 5, 2026 – 03:33 PM EDT

PDB ID	:	9MOH / pdb_00009moh
EMDB ID	:	EMD-48460
Title	:	Structure of the middle part of the bacteriophage T4 tail
Authors	:	Fokine, A.; Zhu, J.; Klose, T.; Vago, F.; Arnaud, C.; Wang, Z.; Khare, B.; Rossmann, M.G.; Chen, Z.; Sun, L.; Fang, Q.; Kuhn, R.; Rao, V.B.
Deposited on	:	2024-12-26
Resolution	:	3.40 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

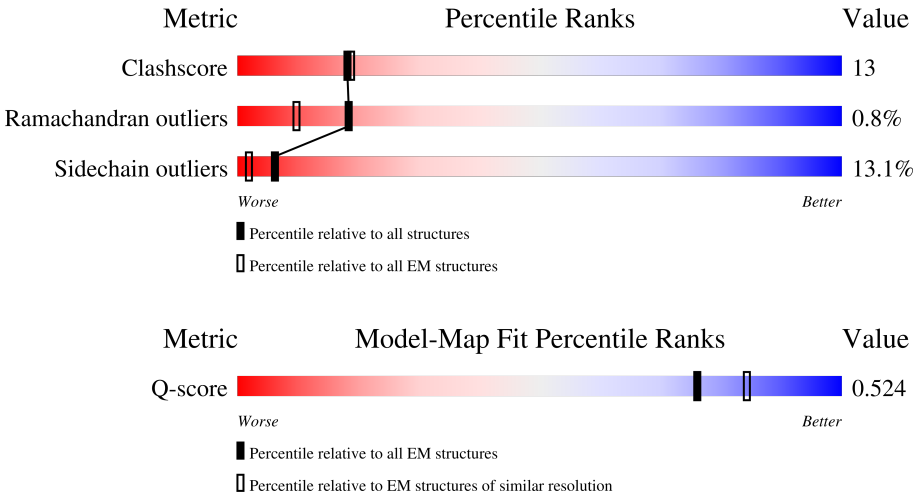
EMDB validation analysis	:	0.0.1.dev133
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

1 Overall quality at a glance

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

The reported resolution of this entry is 3.40 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14717 (2.90 - 3.90)

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	K0	659	21% 62% 31% 6% •
1	K1	659	5% 64% 32% • •
1	K2	659	5% 69% 26% 5% •
1	K3	659	5% 69% 26% • •

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Mol	Chain	Length	Quality of chain
1	K4	659	6% 67% 28% 5%
1	K5	659	5% 67% 28%
1	K6	659	6% 65% 30%
1	K7	659	6% 62% 33%
1	K8	659	7% 62% 33%
1	K9	659	11% 66% 28% 5%
1	L0	659	20% 60% 34% 5%
1	L1	659	5% 65% 30% 5%
1	L2	659	63% 31% 5%
1	L3	659	5% 68% 27%
1	L4	659	5% 68% 27% 5%
1	L5	659	5% 66% 30%
1	L6	659	6% 64% 30% 5%
1	L7	659	6% 64% 31%
1	L8	659	6% 66% 30%
1	L9	659	10% 67% 29%
1	LQ	659	25% 64% 30% 5%
1	LR	659	13% 63% 31% 5%
1	LS	659	6% 66% 29%
1	LU	659	5% 62% 32% 5%
1	LV	659	5% 65% 30% 5%
1	LW	659	64% 31% 5%
1	LX	659	5% 66% 29%
1	LY	659	5% 64% 31% 5%
1	LZ	659	5% 65% 31%

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Mol	Chain	Length	Quality of chain
1	La	659	5% 61% 34%
1	Lb	659	6% 66% 29% 5%
1	Lc	659	6% 65% 30%
1	Ld	659	10% 64% 31% 5%
1	Le	659	19% 64% 30% 5%
1	Lv	659	24% 61% 34% 5%
1	Lw	659	12% 61% 34%
1	Lx	659	7% 64% 30% 5%
1	Lz	659	6% 67% 27% 5%
1	M0	659	22% 66% 29% 5%
1	M1	659	5% 65% 31%
1	M2	659	5% 68% 27%
1	M3	659	5% 69% 27%
1	M4	659	5% 66% 30%
1	M5	659	64% 31%
1	M6	659	5% 68% 28%
1	M7	659	7% 64% 31% 5%
1	M8	659	7% 64% 31%
1	M9	659	11% 66% 30%
1	MQ	659	26% 61% 34%
1	MR	659	12% 66% 30%
1	MS	659	7% 66% 29% 5%
1	MU	659	5% 61% 34%
1	MV	659	5% 68% 27%
1	MW	659	67% 28%

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Mol	Chain	Length	Quality of chain
1	MX	659	5% 65% 30%
1	MY	659	5% 65% 30% 5%
1	MZ	659	5% 63% 31% 5%
1	Ma	659	5% 64% 31%
1	Mb	659	6% 63% 32% 5%
1	Mc	659	7% 67% 29%
1	Md	659	8% 63% 33%
1	Me	659	20% 64% 32%
1	Mv	659	24% 64% 31%
1	Mw	659	13% 60% 35% 5%
1	Mx	659	7% 64% 31%
1	Mz	659	5% 63% 31% 5%
1	NV	659	25% 62% 32% 5%
1	NW	659	13% 64% 31%
1	NX	659	7% 64% 30% 5%
1	NZ	659	5% 61% 34% 5%
1	Na	659	5% 67% 28%
1	Nb	659	5% 63% 32%
1	Nc	659	5% 66% 29%
1	Nd	659	5% 63% 31% 5%
1	Ne	659	64% 32%
1	Nf	659	5% 61% 33% 5%
1	Ng	659	6% 64% 30% 5%
1	Nh	659	6% 66% 30%
1	Ni	659	10% 66% 29%

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Mol	Chain	Length	Quality of chain
1	Nj	659	19% 66% 29%
1	Nv	659	24% 63% 31% 5%
1	Nw	659	12% 61% 34%
1	Nx	659	6% 65% 31%
1	Nz	659	5% 66% 29%
2	OC	163	10% 63% 30% 7%
2	OD	163	58% 34% 8%
2	OE	163	55% 38% 7%
2	OF	163	60% 32% 8%
2	OG	163	59% 33% 7%
2	OH	163	61% 34% 5%
2	OI	163	63% 31% 6%
2	OJ	163	57% 33% 9%
2	OK	163	61% 36%
2	OL	163	65% 27% 7%
2	OM	163	63% 28% 9%
2	ON	163	63% 29% 7%
2	OO	163	8% 60% 31% 10%
2	Oh	163	9% 60% 33% 7%
2	Oi	163	55% 37% 8%
2	Oj	163	51% 40% 9%
2	Ok	163	58% 32% 10%
2	Ol	163	60% 31% 9%
2	Om	163	58% 34% 8%
2	On	163	59% 33% 8%

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Mol	Chain	Length	Quality of chain
2	Oo	163	53% 41% 6%
2	Op	163	56% 33% 11%
2	Oq	163	54% 37% 9%
2	Or	163	52% 40% 7%
2	Os	163	60% 30% 10%
2	Ot	163	7% 63% 32% 6%
2	PC	163	8% 65% 28% 7%
2	PD	163	55% 37% 8%
2	PE	163	58% 33% 9%
2	PF	163	55% 34% 10%
2	PG	163	59% 33% 8%
2	PH	163	63% 29% 7%
2	PI	163	58% 36% 6%
2	PJ	163	55% 37% 8%
2	PK	163	5% 57% 36% 7%
2	PL	163	61% 28% 10%
2	PM	163	61% 34% 5%
2	PN	163	56% 37% 6%
2	PO	163	7% 57% 37% 6%
2	Ph	163	8% 61% 31% 8%
2	Pi	163	53% 38% 9%
2	Pj	163	58% 36% 6%
2	Pk	163	54% 35% 11%
2	Pl	163	56% 36% 8%
2	Pm	163	73% 21% 6%

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Mol	Chain	Length	Quality of chain
2	Pn	163	58% 35% 7%
2	Po	163	63% 28% 10%
2	Pp	163	60% 32% 9%
2	Pq	163	53% 38% 9%
2	Pr	163	5% 60% 31% 9%
2	Ps	163	61% 31% 8%
2	Pt	163	5% 54% 40% 6%
2	RC	163	9% 61% 31% 8%
2	RD	163	52% 38% 10%
2	RE	163	55% 39% 6%
2	RF	163	55% 35% 10%
2	RG	163	55% 36% 10%
2	RH	163	63% 29% 8%
2	RI	163	58% 34% 8%
2	RJ	163	58% 34% 7%
2	RK	163	62% 32% 6%
2	RL	163	63% 30% 7%
2	RM	163	57% 35% 8%
2	RN	163	56% 34% 9%
2	RO	163	7% 63% 30% 7%
2	RR	163	9% 63% 30% 7%
2	RS	163	56% 36% 7%
2	RT	163	52% 39% 9%
2	Rk	163	59% 33% 8%
2	Rl	163	60% 34% 6%

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Mol	Chain	Length	Quality of chain
2	Rm	163	64% 28% 7%
2	Rn	163	61% 30% 9%
2	Ro	163	57% 36% 7%
2	Rp	163	56% 36% 8%
2	Rq	163	55% 34% 10%
2	Rr	163	55% 36% 9%
2	Rs	163	63% 30% 7%
2	Rt	163	7% 55% 39% 6%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 521712 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 gp18, tail sheath protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	K0	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	K1	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	K2	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	K3	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	K4	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	K5	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	K6	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	K7	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	K8	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	K9	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	L0	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	L1	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	L2	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	L3	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	L4	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	L5	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	L6	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	L7	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	L8	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	L9	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	LQ	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	LR	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	LS	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	LU	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	LV	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	LW	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	LX	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	LY	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	LZ	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	La	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Lb	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Lc	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Ld	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Le	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Lv	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Lw	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Lx	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Lz	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	M0	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	M1	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	M2	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	M3	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	M4	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	M5	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	M6	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	M7	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	M8	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	M9	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	MQ	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	MR	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	MS	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	MU	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	MV	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	MW	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	MX	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	MY	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	MZ	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Ma	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Mb	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Mc	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Md	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Me	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Mv	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Mw	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Mx	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Mz	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	NV	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	NW	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	NX	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	NZ	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Na	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Nb	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Nc	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Nd	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Ne	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Nf	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Ng	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Nh	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Ni	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Nj	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Nv	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Nw	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Nx	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		
1	Nz	655	Total	C	N	O	S	0	0
			5000	3152	841	996	11		

There are 252 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
K0	109	ASN	SER	conflict	UNP A0A7S9SVW9
K0	301	GLY	GLU	conflict	UNP A0A7S9SVW9
K0	399	VAL	ALA	conflict	UNP A0A7S9SVW9
K1	109	ASN	SER	conflict	UNP A0A7S9SVW9
K1	301	GLY	GLU	conflict	UNP A0A7S9SVW9
K1	399	VAL	ALA	conflict	UNP A0A7S9SVW9
K2	109	ASN	SER	conflict	UNP A0A7S9SVW9
K2	301	GLY	GLU	conflict	UNP A0A7S9SVW9
K2	399	VAL	ALA	conflict	UNP A0A7S9SVW9
K3	109	ASN	SER	conflict	UNP A0A7S9SVW9
K3	301	GLY	GLU	conflict	UNP A0A7S9SVW9
K3	399	VAL	ALA	conflict	UNP A0A7S9SVW9
K4	109	ASN	SER	conflict	UNP A0A7S9SVW9
K4	301	GLY	GLU	conflict	UNP A0A7S9SVW9
K4	399	VAL	ALA	conflict	UNP A0A7S9SVW9
K5	109	ASN	SER	conflict	UNP A0A7S9SVW9
K5	301	GLY	GLU	conflict	UNP A0A7S9SVW9
K5	399	VAL	ALA	conflict	UNP A0A7S9SVW9
K6	109	ASN	SER	conflict	UNP A0A7S9SVW9
K6	301	GLY	GLU	conflict	UNP A0A7S9SVW9
K6	399	VAL	ALA	conflict	UNP A0A7S9SVW9
K7	109	ASN	SER	conflict	UNP A0A7S9SVW9
K7	301	GLY	GLU	conflict	UNP A0A7S9SVW9
K7	399	VAL	ALA	conflict	UNP A0A7S9SVW9
K8	109	ASN	SER	conflict	UNP A0A7S9SVW9
K8	301	GLY	GLU	conflict	UNP A0A7S9SVW9
K8	399	VAL	ALA	conflict	UNP A0A7S9SVW9
K9	109	ASN	SER	conflict	UNP A0A7S9SVW9
K9	301	GLY	GLU	conflict	UNP A0A7S9SVW9
K9	399	VAL	ALA	conflict	UNP A0A7S9SVW9
L0	109	ASN	SER	conflict	UNP A0A7S9SVW9

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Chain	Residue	Modelled	Actual	Comment	Reference
L0	301	GLY	GLU	conflict	UNP A0A7S9SVW9
L0	399	VAL	ALA	conflict	UNP A0A7S9SVW9
L1	109	ASN	SER	conflict	UNP A0A7S9SVW9
L1	301	GLY	GLU	conflict	UNP A0A7S9SVW9
L1	399	VAL	ALA	conflict	UNP A0A7S9SVW9
L2	109	ASN	SER	conflict	UNP A0A7S9SVW9
L2	301	GLY	GLU	conflict	UNP A0A7S9SVW9
L2	399	VAL	ALA	conflict	UNP A0A7S9SVW9
L3	109	ASN	SER	conflict	UNP A0A7S9SVW9
L3	301	GLY	GLU	conflict	UNP A0A7S9SVW9
L3	399	VAL	ALA	conflict	UNP A0A7S9SVW9
L4	109	ASN	SER	conflict	UNP A0A7S9SVW9
L4	301	GLY	GLU	conflict	UNP A0A7S9SVW9
L4	399	VAL	ALA	conflict	UNP A0A7S9SVW9
L5	109	ASN	SER	conflict	UNP A0A7S9SVW9
L5	301	GLY	GLU	conflict	UNP A0A7S9SVW9
L5	399	VAL	ALA	conflict	UNP A0A7S9SVW9
L6	109	ASN	SER	conflict	UNP A0A7S9SVW9
L6	301	GLY	GLU	conflict	UNP A0A7S9SVW9
L6	399	VAL	ALA	conflict	UNP A0A7S9SVW9
L7	109	ASN	SER	conflict	UNP A0A7S9SVW9
L7	301	GLY	GLU	conflict	UNP A0A7S9SVW9
L7	399	VAL	ALA	conflict	UNP A0A7S9SVW9
L8	109	ASN	SER	conflict	UNP A0A7S9SVW9
L8	301	GLY	GLU	conflict	UNP A0A7S9SVW9
L8	399	VAL	ALA	conflict	UNP A0A7S9SVW9
L9	109	ASN	SER	conflict	UNP A0A7S9SVW9
L9	301	GLY	GLU	conflict	UNP A0A7S9SVW9
L9	399	VAL	ALA	conflict	UNP A0A7S9SVW9
LQ	109	ASN	SER	conflict	UNP A0A7S9SVW9
LQ	301	GLY	GLU	conflict	UNP A0A7S9SVW9
LQ	399	VAL	ALA	conflict	UNP A0A7S9SVW9
LR	109	ASN	SER	conflict	UNP A0A7S9SVW9
LR	301	GLY	GLU	conflict	UNP A0A7S9SVW9
LR	399	VAL	ALA	conflict	UNP A0A7S9SVW9
LS	109	ASN	SER	conflict	UNP A0A7S9SVW9
LS	301	GLY	GLU	conflict	UNP A0A7S9SVW9
LS	399	VAL	ALA	conflict	UNP A0A7S9SVW9
LU	109	ASN	SER	conflict	UNP A0A7S9SVW9
LU	301	GLY	GLU	conflict	UNP A0A7S9SVW9
LU	399	VAL	ALA	conflict	UNP A0A7S9SVW9
LV	109	ASN	SER	conflict	UNP A0A7S9SVW9

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Chain	Residue	Modelled	Actual	Comment	Reference
LV	301	GLY	GLU	conflict	UNP A0A7S9SVW9
LV	399	VAL	ALA	conflict	UNP A0A7S9SVW9
LW	109	ASN	SER	conflict	UNP A0A7S9SVW9
LW	301	GLY	GLU	conflict	UNP A0A7S9SVW9
LW	399	VAL	ALA	conflict	UNP A0A7S9SVW9
LX	109	ASN	SER	conflict	UNP A0A7S9SVW9
LX	301	GLY	GLU	conflict	UNP A0A7S9SVW9
LX	399	VAL	ALA	conflict	UNP A0A7S9SVW9
LY	109	ASN	SER	conflict	UNP A0A7S9SVW9
LY	301	GLY	GLU	conflict	UNP A0A7S9SVW9
LY	399	VAL	ALA	conflict	UNP A0A7S9SVW9
LZ	109	ASN	SER	conflict	UNP A0A7S9SVW9
LZ	301	GLY	GLU	conflict	UNP A0A7S9SVW9
LZ	399	VAL	ALA	conflict	UNP A0A7S9SVW9
La	109	ASN	SER	conflict	UNP A0A7S9SVW9
La	301	GLY	GLU	conflict	UNP A0A7S9SVW9
La	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Lb	109	ASN	SER	conflict	UNP A0A7S9SVW9
Lb	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Lb	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Lc	109	ASN	SER	conflict	UNP A0A7S9SVW9
Lc	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Lc	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Ld	109	ASN	SER	conflict	UNP A0A7S9SVW9
Ld	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Ld	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Le	109	ASN	SER	conflict	UNP A0A7S9SVW9
Le	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Le	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Lv	109	ASN	SER	conflict	UNP A0A7S9SVW9
Lv	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Lv	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Lw	109	ASN	SER	conflict	UNP A0A7S9SVW9
Lw	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Lw	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Lx	109	ASN	SER	conflict	UNP A0A7S9SVW9
Lx	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Lx	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Lz	109	ASN	SER	conflict	UNP A0A7S9SVW9
Lz	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Lz	399	VAL	ALA	conflict	UNP A0A7S9SVW9
M0	109	ASN	SER	conflict	UNP A0A7S9SVW9

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Chain	Residue	Modelled	Actual	Comment	Reference
M0	301	GLY	GLU	conflict	UNP A0A7S9SVW9
M0	399	VAL	ALA	conflict	UNP A0A7S9SVW9
M1	109	ASN	SER	conflict	UNP A0A7S9SVW9
M1	301	GLY	GLU	conflict	UNP A0A7S9SVW9
M1	399	VAL	ALA	conflict	UNP A0A7S9SVW9
M2	109	ASN	SER	conflict	UNP A0A7S9SVW9
M2	301	GLY	GLU	conflict	UNP A0A7S9SVW9
M2	399	VAL	ALA	conflict	UNP A0A7S9SVW9
M3	109	ASN	SER	conflict	UNP A0A7S9SVW9
M3	301	GLY	GLU	conflict	UNP A0A7S9SVW9
M3	399	VAL	ALA	conflict	UNP A0A7S9SVW9
M4	109	ASN	SER	conflict	UNP A0A7S9SVW9
M4	301	GLY	GLU	conflict	UNP A0A7S9SVW9
M4	399	VAL	ALA	conflict	UNP A0A7S9SVW9
M5	109	ASN	SER	conflict	UNP A0A7S9SVW9
M5	301	GLY	GLU	conflict	UNP A0A7S9SVW9
M5	399	VAL	ALA	conflict	UNP A0A7S9SVW9
M6	109	ASN	SER	conflict	UNP A0A7S9SVW9
M6	301	GLY	GLU	conflict	UNP A0A7S9SVW9
M6	399	VAL	ALA	conflict	UNP A0A7S9SVW9
M7	109	ASN	SER	conflict	UNP A0A7S9SVW9
M7	301	GLY	GLU	conflict	UNP A0A7S9SVW9
M7	399	VAL	ALA	conflict	UNP A0A7S9SVW9
M8	109	ASN	SER	conflict	UNP A0A7S9SVW9
M8	301	GLY	GLU	conflict	UNP A0A7S9SVW9
M8	399	VAL	ALA	conflict	UNP A0A7S9SVW9
M9	109	ASN	SER	conflict	UNP A0A7S9SVW9
M9	301	GLY	GLU	conflict	UNP A0A7S9SVW9
M9	399	VAL	ALA	conflict	UNP A0A7S9SVW9
MQ	109	ASN	SER	conflict	UNP A0A7S9SVW9
MQ	301	GLY	GLU	conflict	UNP A0A7S9SVW9
MQ	399	VAL	ALA	conflict	UNP A0A7S9SVW9
MR	109	ASN	SER	conflict	UNP A0A7S9SVW9
MR	301	GLY	GLU	conflict	UNP A0A7S9SVW9
MR	399	VAL	ALA	conflict	UNP A0A7S9SVW9
MS	109	ASN	SER	conflict	UNP A0A7S9SVW9
MS	301	GLY	GLU	conflict	UNP A0A7S9SVW9
MS	399	VAL	ALA	conflict	UNP A0A7S9SVW9
MU	109	ASN	SER	conflict	UNP A0A7S9SVW9
MU	301	GLY	GLU	conflict	UNP A0A7S9SVW9
MU	399	VAL	ALA	conflict	UNP A0A7S9SVW9
MV	109	ASN	SER	conflict	UNP A0A7S9SVW9

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Chain	Residue	Modelled	Actual	Comment	Reference
MV	301	GLY	GLU	conflict	UNP A0A7S9SVW9
MV	399	VAL	ALA	conflict	UNP A0A7S9SVW9
MW	109	ASN	SER	conflict	UNP A0A7S9SVW9
MW	301	GLY	GLU	conflict	UNP A0A7S9SVW9
MW	399	VAL	ALA	conflict	UNP A0A7S9SVW9
MX	109	ASN	SER	conflict	UNP A0A7S9SVW9
MX	301	GLY	GLU	conflict	UNP A0A7S9SVW9
MX	399	VAL	ALA	conflict	UNP A0A7S9SVW9
MY	109	ASN	SER	conflict	UNP A0A7S9SVW9
MY	301	GLY	GLU	conflict	UNP A0A7S9SVW9
MY	399	VAL	ALA	conflict	UNP A0A7S9SVW9
MZ	109	ASN	SER	conflict	UNP A0A7S9SVW9
MZ	301	GLY	GLU	conflict	UNP A0A7S9SVW9
MZ	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Ma	109	ASN	SER	conflict	UNP A0A7S9SVW9
Ma	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Ma	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Mb	109	ASN	SER	conflict	UNP A0A7S9SVW9
Mb	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Mb	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Mc	109	ASN	SER	conflict	UNP A0A7S9SVW9
Mc	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Mc	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Md	109	ASN	SER	conflict	UNP A0A7S9SVW9
Md	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Md	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Me	109	ASN	SER	conflict	UNP A0A7S9SVW9
Me	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Me	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Mv	109	ASN	SER	conflict	UNP A0A7S9SVW9
Mv	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Mv	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Mw	109	ASN	SER	conflict	UNP A0A7S9SVW9
Mw	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Mw	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Mx	109	ASN	SER	conflict	UNP A0A7S9SVW9
Mx	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Mx	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Mz	109	ASN	SER	conflict	UNP A0A7S9SVW9
Mz	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Mz	399	VAL	ALA	conflict	UNP A0A7S9SVW9
NV	109	ASN	SER	conflict	UNP A0A7S9SVW9

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Chain	Residue	Modelled	Actual	Comment	Reference
NV	301	GLY	GLU	conflict	UNP A0A7S9SVW9
NV	399	VAL	ALA	conflict	UNP A0A7S9SVW9
NW	109	ASN	SER	conflict	UNP A0A7S9SVW9
NW	301	GLY	GLU	conflict	UNP A0A7S9SVW9
NW	399	VAL	ALA	conflict	UNP A0A7S9SVW9
NX	109	ASN	SER	conflict	UNP A0A7S9SVW9
NX	301	GLY	GLU	conflict	UNP A0A7S9SVW9
NX	399	VAL	ALA	conflict	UNP A0A7S9SVW9
NZ	109	ASN	SER	conflict	UNP A0A7S9SVW9
NZ	301	GLY	GLU	conflict	UNP A0A7S9SVW9
NZ	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Na	109	ASN	SER	conflict	UNP A0A7S9SVW9
Na	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Na	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Nb	109	ASN	SER	conflict	UNP A0A7S9SVW9
Nb	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Nb	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Nc	109	ASN	SER	conflict	UNP A0A7S9SVW9
Nc	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Nc	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Nd	109	ASN	SER	conflict	UNP A0A7S9SVW9
Nd	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Nd	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Ne	109	ASN	SER	conflict	UNP A0A7S9SVW9
Ne	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Ne	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Nf	109	ASN	SER	conflict	UNP A0A7S9SVW9
Nf	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Nf	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Ng	109	ASN	SER	conflict	UNP A0A7S9SVW9
Ng	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Ng	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Nh	109	ASN	SER	conflict	UNP A0A7S9SVW9
Nh	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Nh	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Ni	109	ASN	SER	conflict	UNP A0A7S9SVW9
Ni	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Ni	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Nj	109	ASN	SER	conflict	UNP A0A7S9SVW9
Nj	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Nj	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Nv	109	ASN	SER	conflict	UNP A0A7S9SVW9

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Chain	Residue	Modelled	Actual	Comment	Reference
Nv	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Nv	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Nw	109	ASN	SER	conflict	UNP A0A7S9SVW9
Nw	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Nw	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Nx	109	ASN	SER	conflict	UNP A0A7S9SVW9
Nx	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Nx	399	VAL	ALA	conflict	UNP A0A7S9SVW9
Nz	109	ASN	SER	conflict	UNP A0A7S9SVW9
Nz	301	GLY	GLU	conflict	UNP A0A7S9SVW9
Nz	399	VAL	ALA	conflict	UNP A0A7S9SVW9

- Molecule 2 is a protein called gp19, tail tube protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	OC	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	OD	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	OE	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	OF	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	OG	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	OH	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	OI	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	OJ	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	OK	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	OL	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	OM	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	ON	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	OO	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Oh	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Oi	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Oj	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Ok	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Ol	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Om	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	On	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Oo	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Op	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Oq	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Or	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Os	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Ot	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PC	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PD	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PE	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PF	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PG	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PH	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PI	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PJ	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PK	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	PL	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PM	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PN	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	PO	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Ph	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Pi	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Pj	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Pk	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Pl	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Pm	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Pn	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Po	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Pp	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Pq	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Pr	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Ps	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Pt	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RC	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RD	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RE	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RF	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	RG	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RH	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RI	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RJ	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RK	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RL	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RM	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RN	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RO	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RR	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RS	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	RT	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Rk	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Rl	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Rm	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Rn	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Ro	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Rp	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Rq	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Rr	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		
2	Rs	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		

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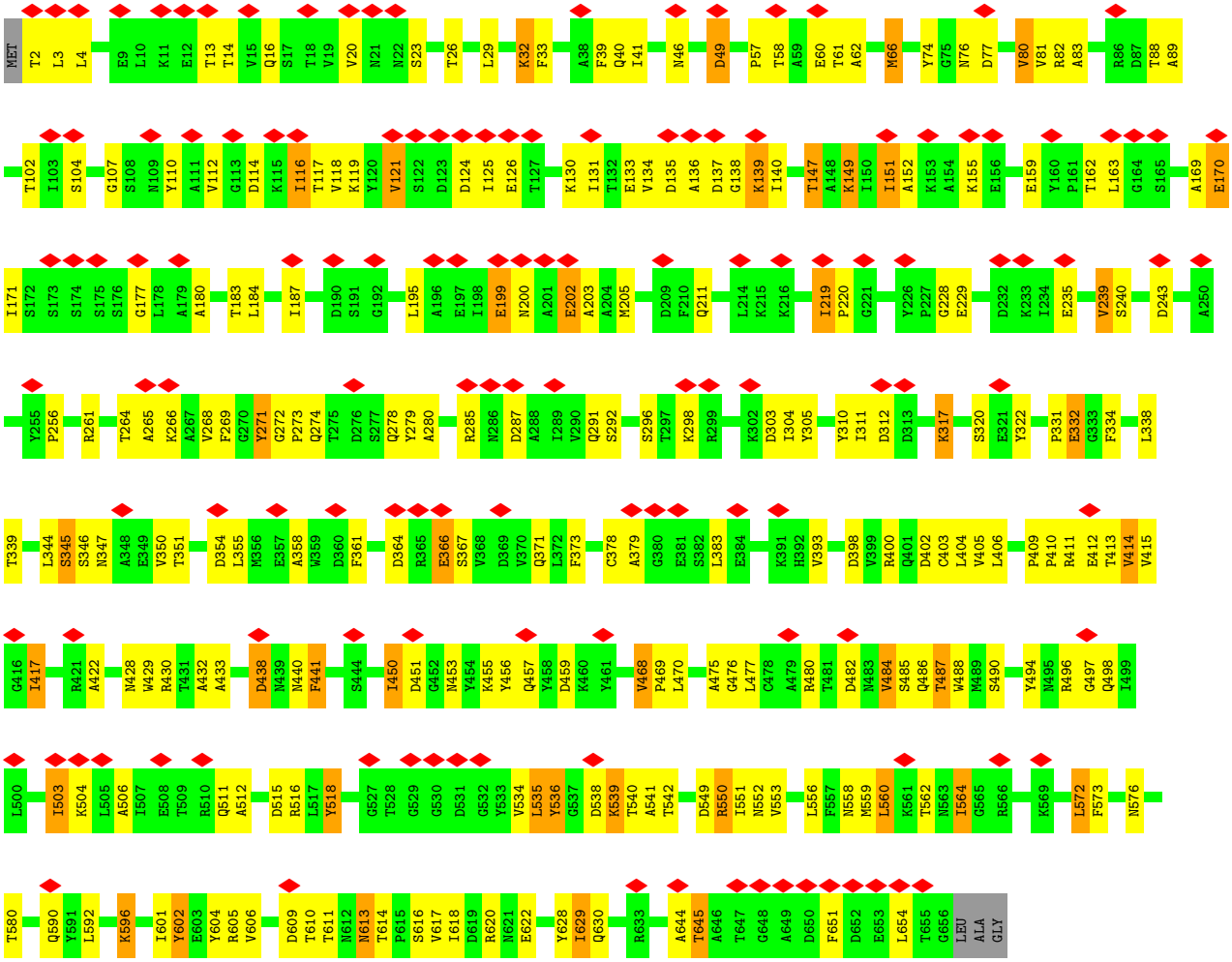
Mol	Chain	Residues	Atoms					AltConf	Trace
2	Rt	163	Total	C	N	O	S	0	0
			1304	828	219	253	4		

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.

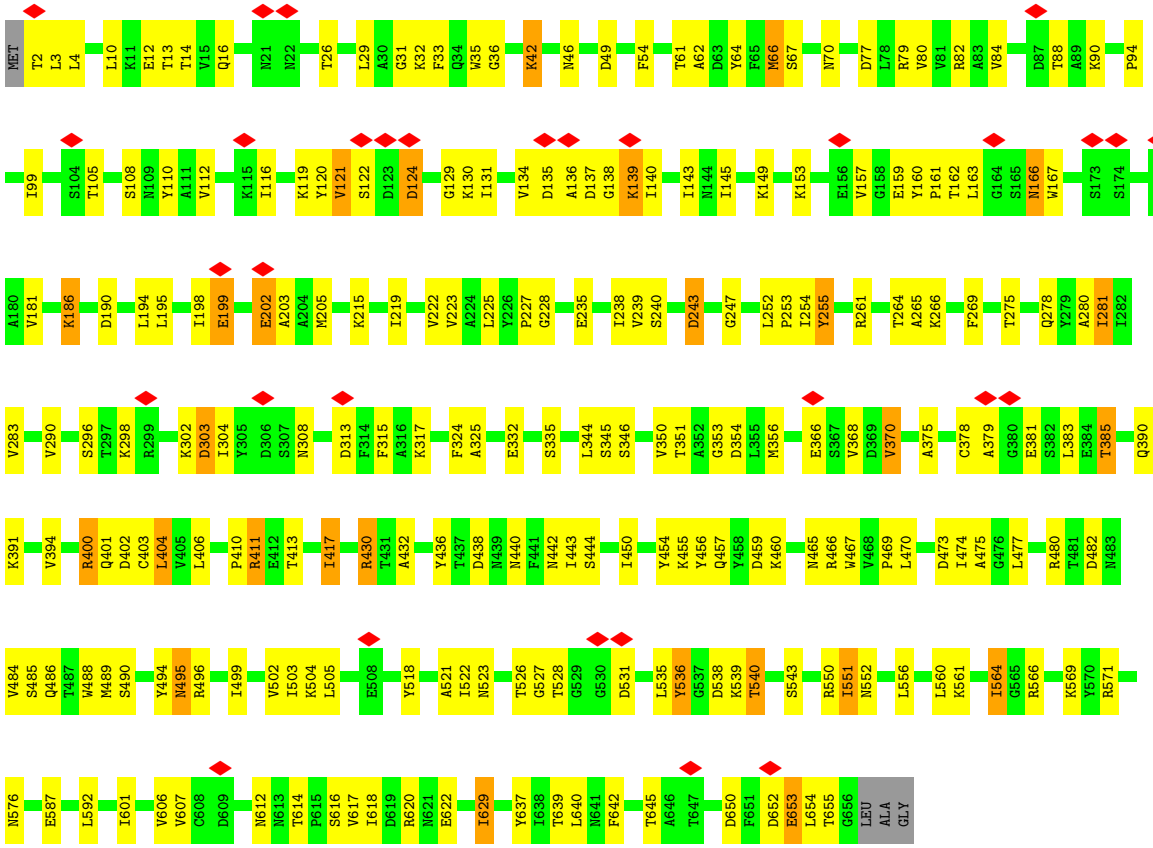
• Molecule 1: gp18, tail sheath protein

Chain K0:



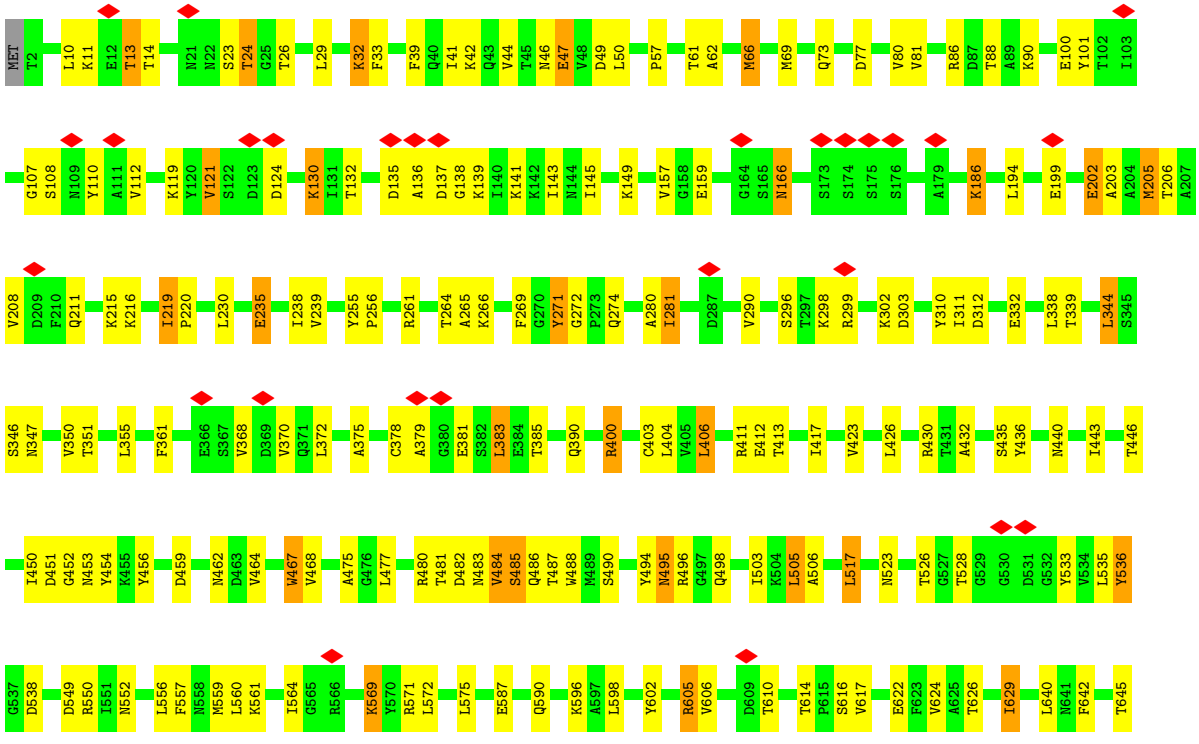
• Molecule 1: gp18, tail sheath protein

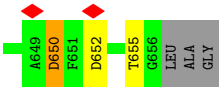
Chain K1:



• Molecule 1: gp18, tail sheath protein

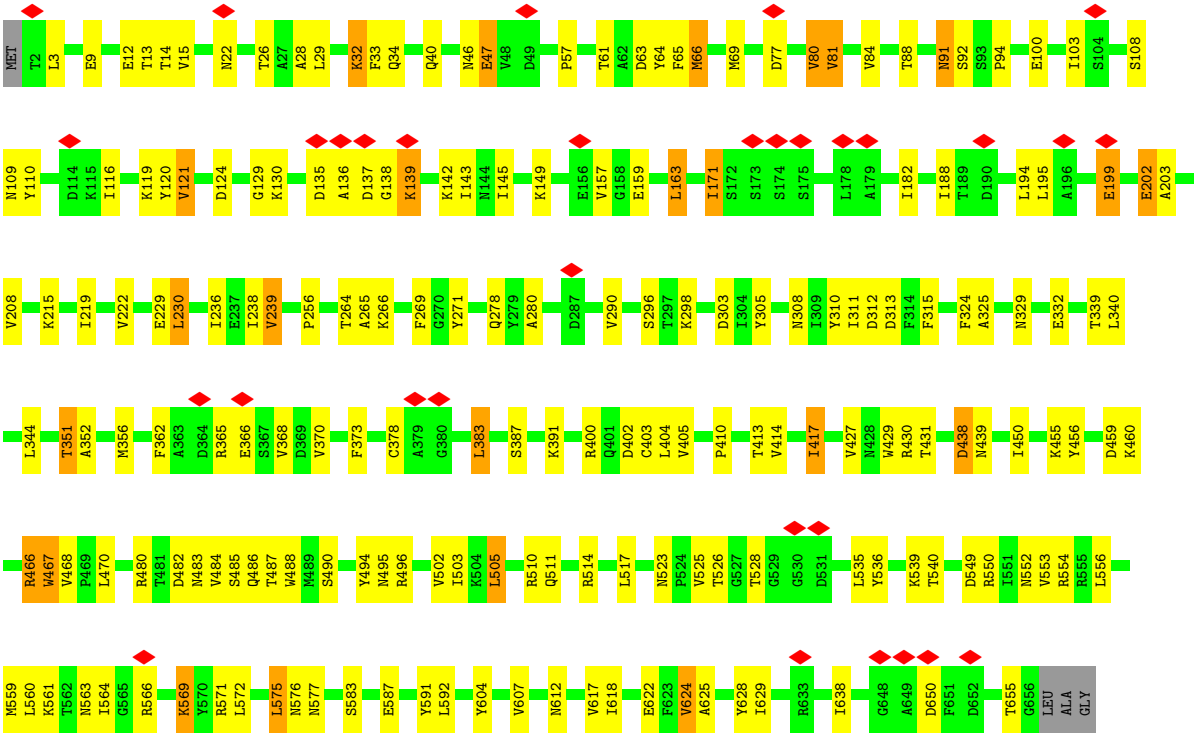
Chain K2:





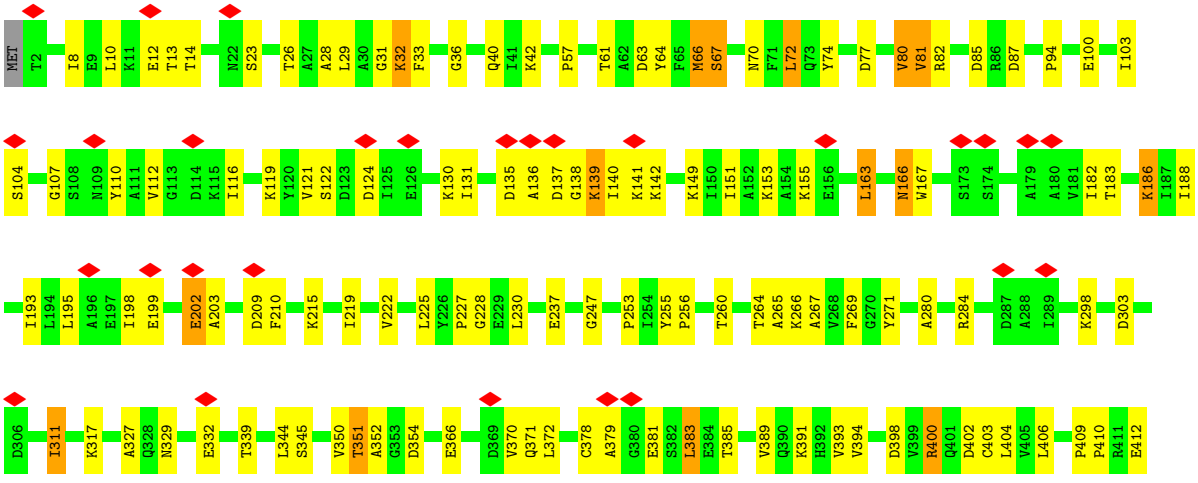
• Molecule 1: gp18, tail sheath protein

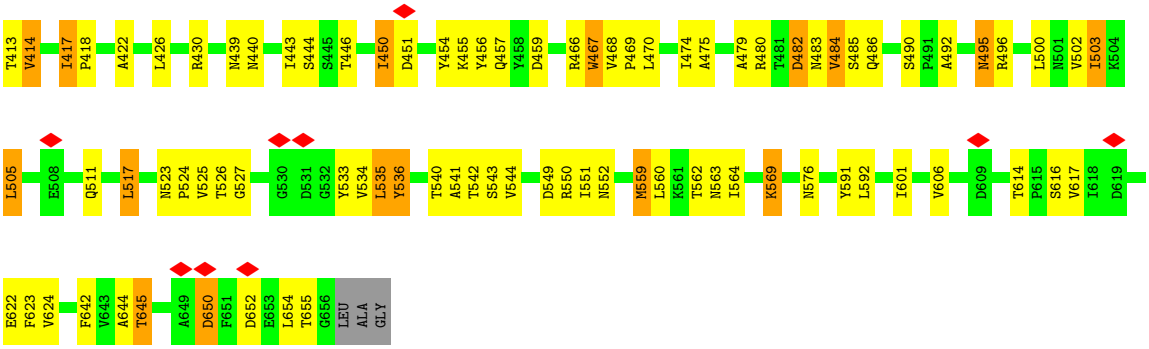
Chain K3:



• Molecule 1: gp18, tail sheath protein

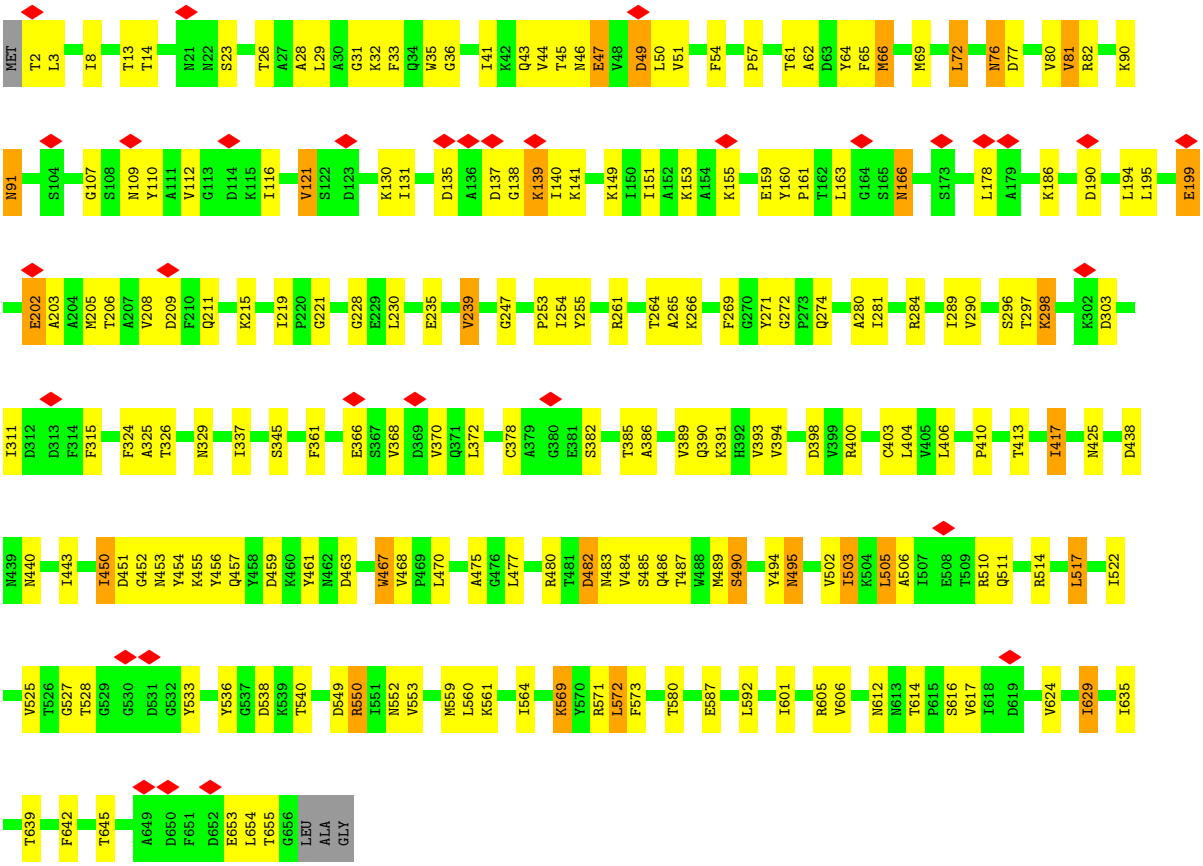
Chain K4:





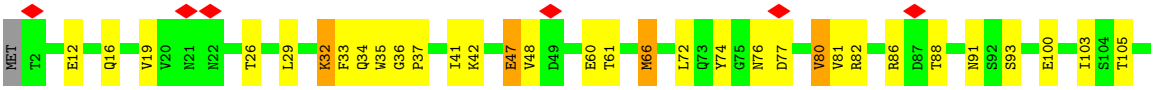
• Molecule 1: gp18, tail sheath protein

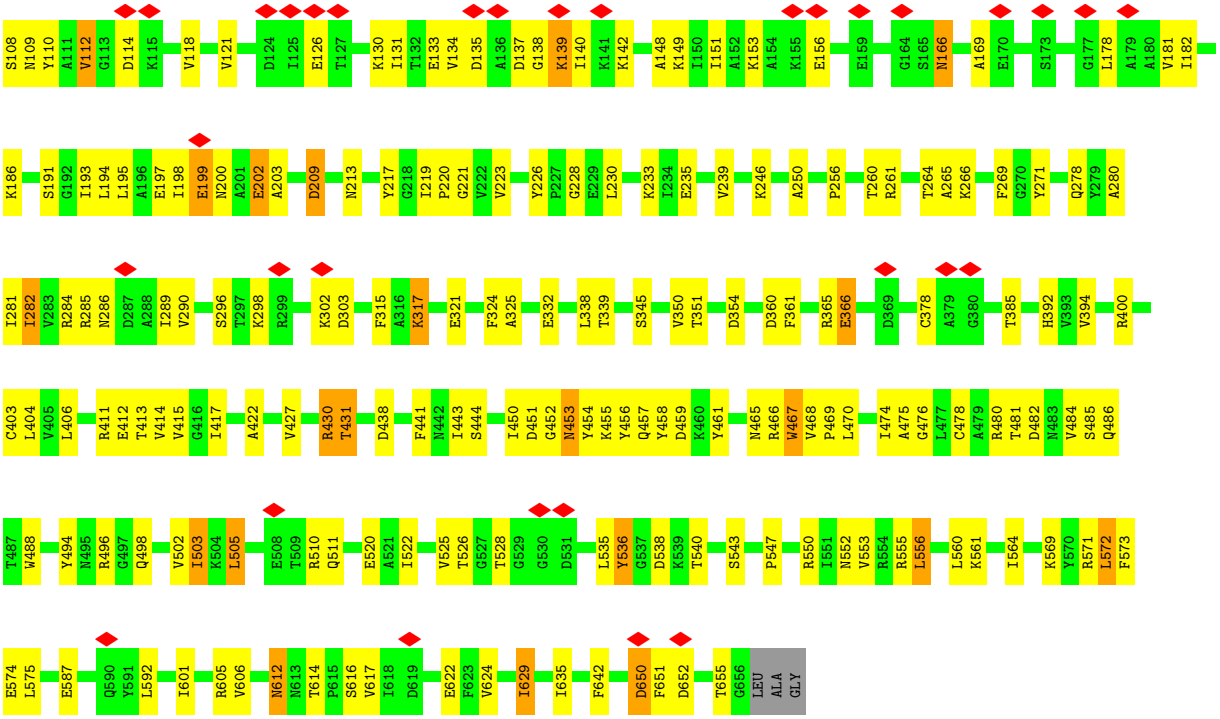
Chain K5:



• Molecule 1: gp18, tail sheath protein

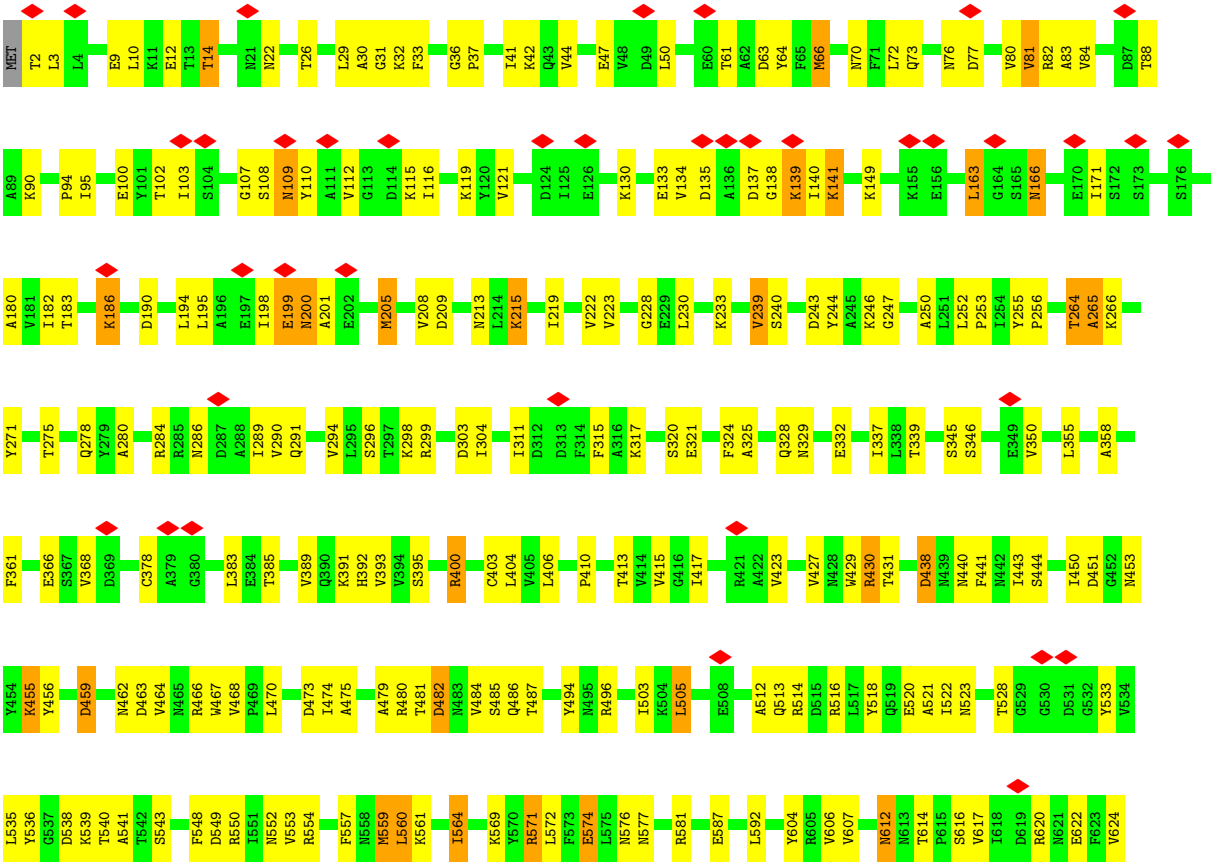
Chain K6:

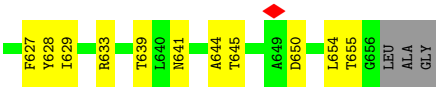




• Molecule 1: gp18, tail sheath protein

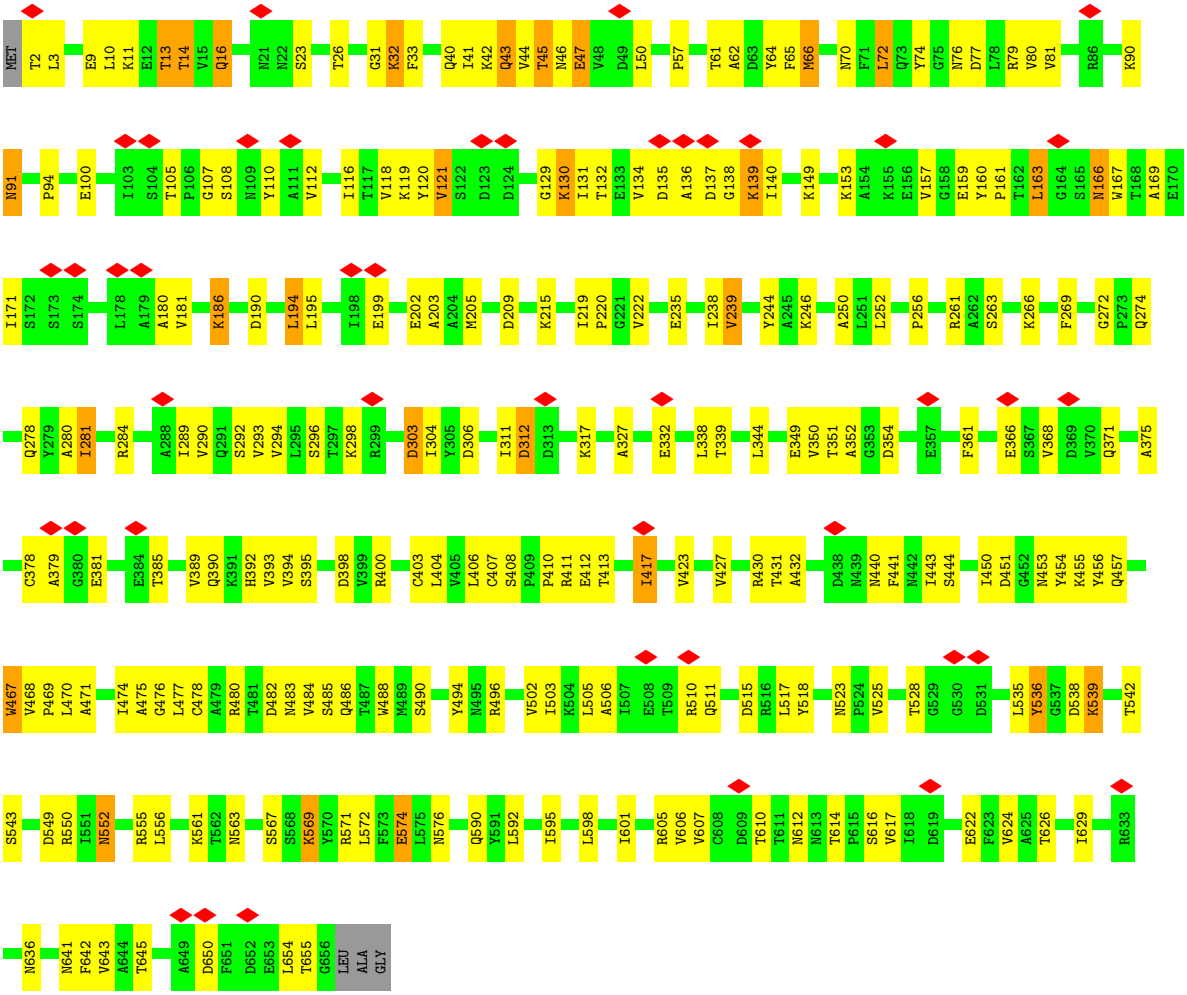
Chain K7:





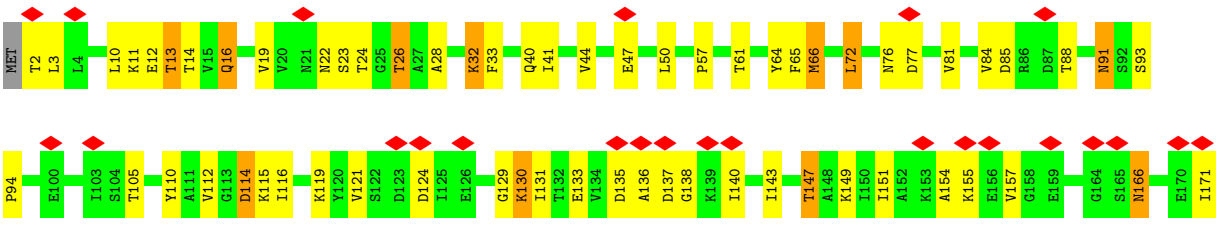
• Molecule 1: gp18, tail sheath protein

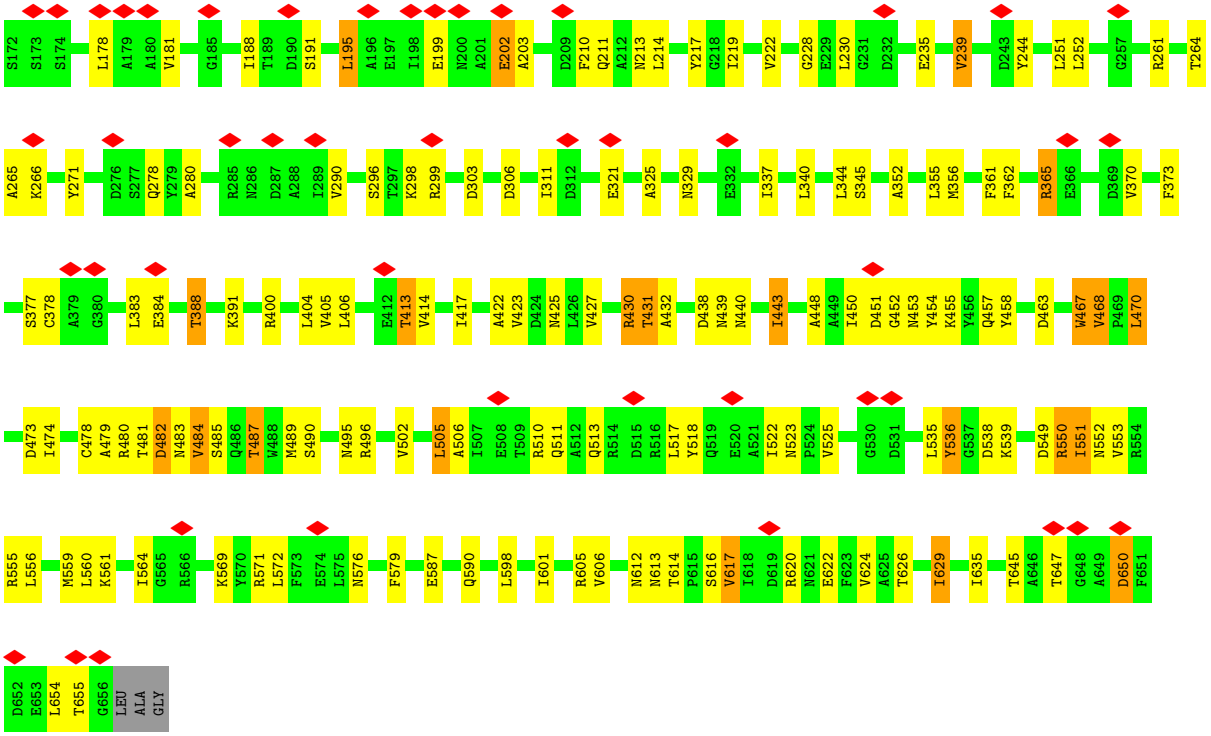
Chain K8:



• Molecule 1: gp18, tail sheath protein

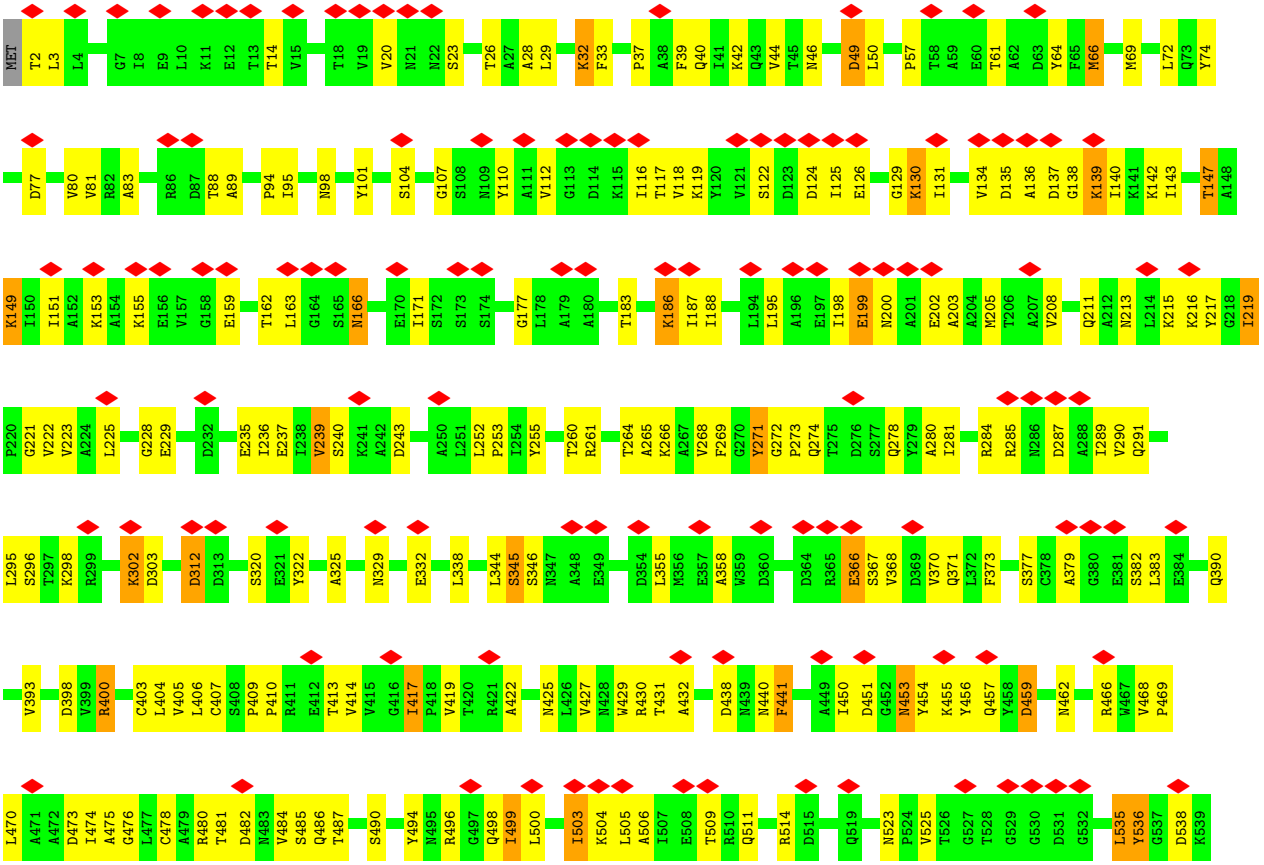
Chain K9:

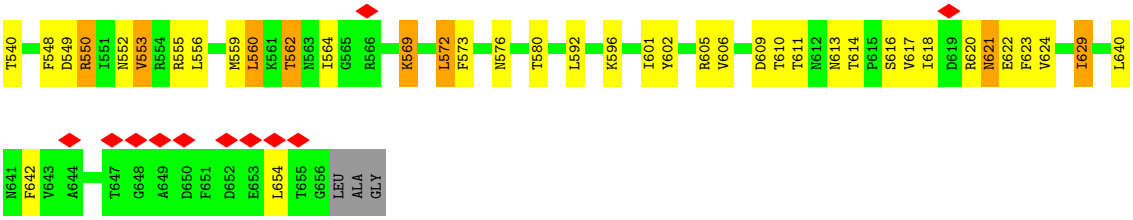




• Molecule 1: gp18, tail sheath protein

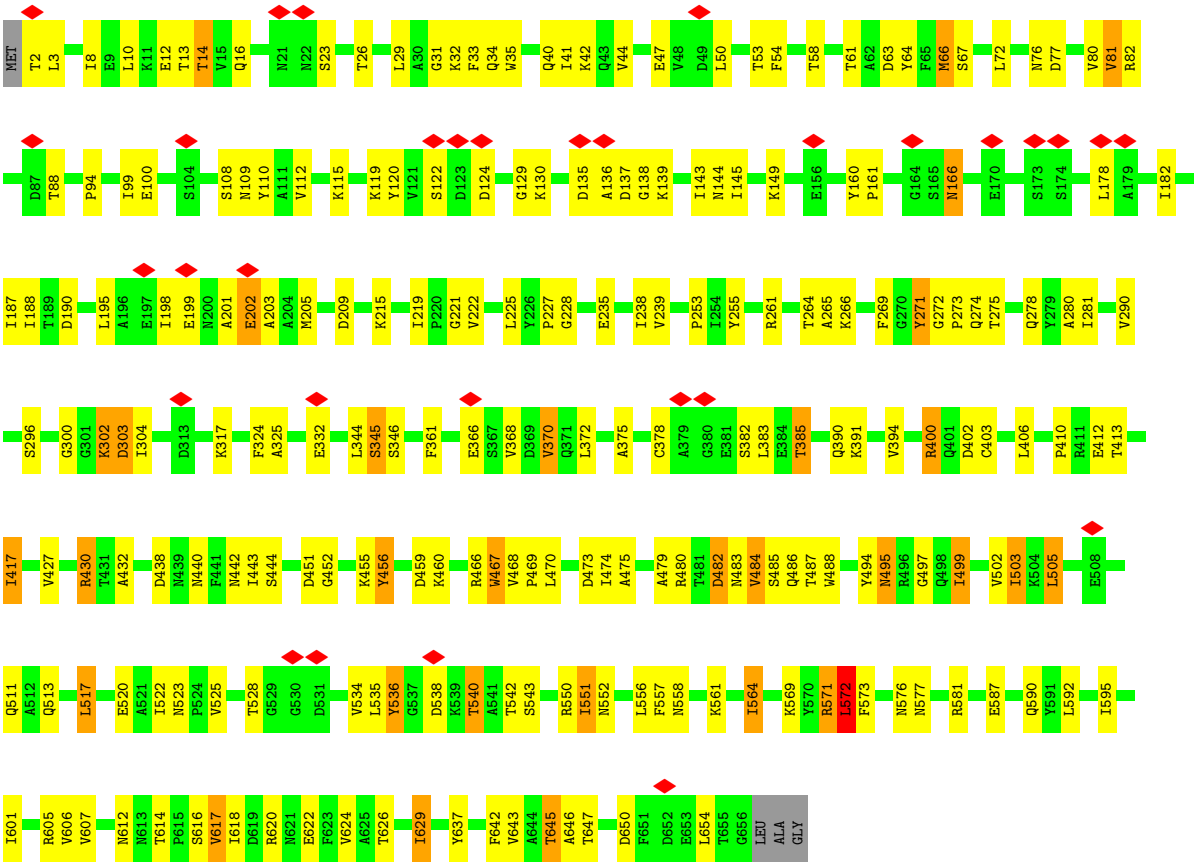
Chain L0:





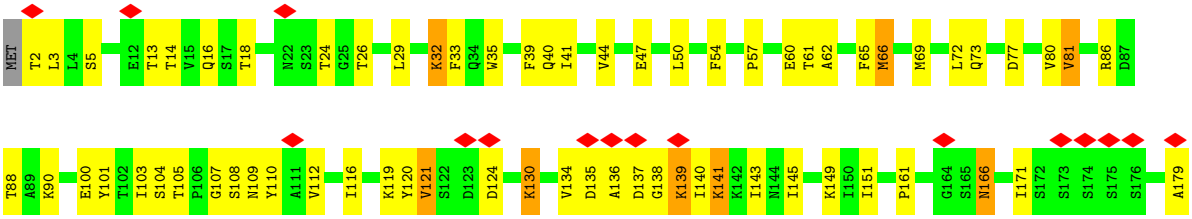
• Molecule 1: gp18, tail sheath protein

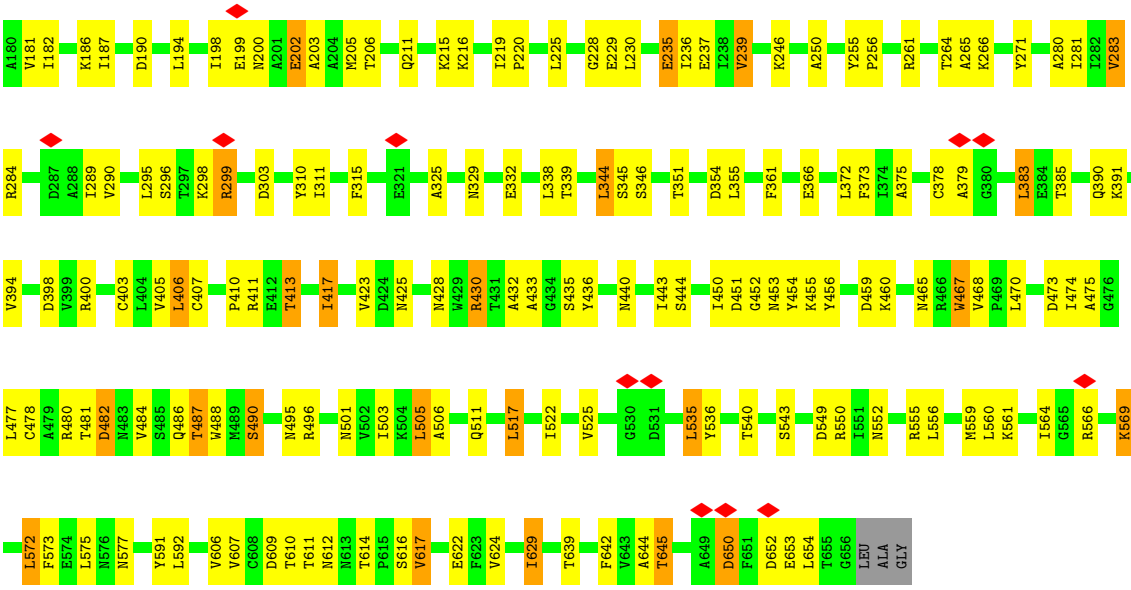
Chain L1:



• Molecule 1: gp18, tail sheath protein

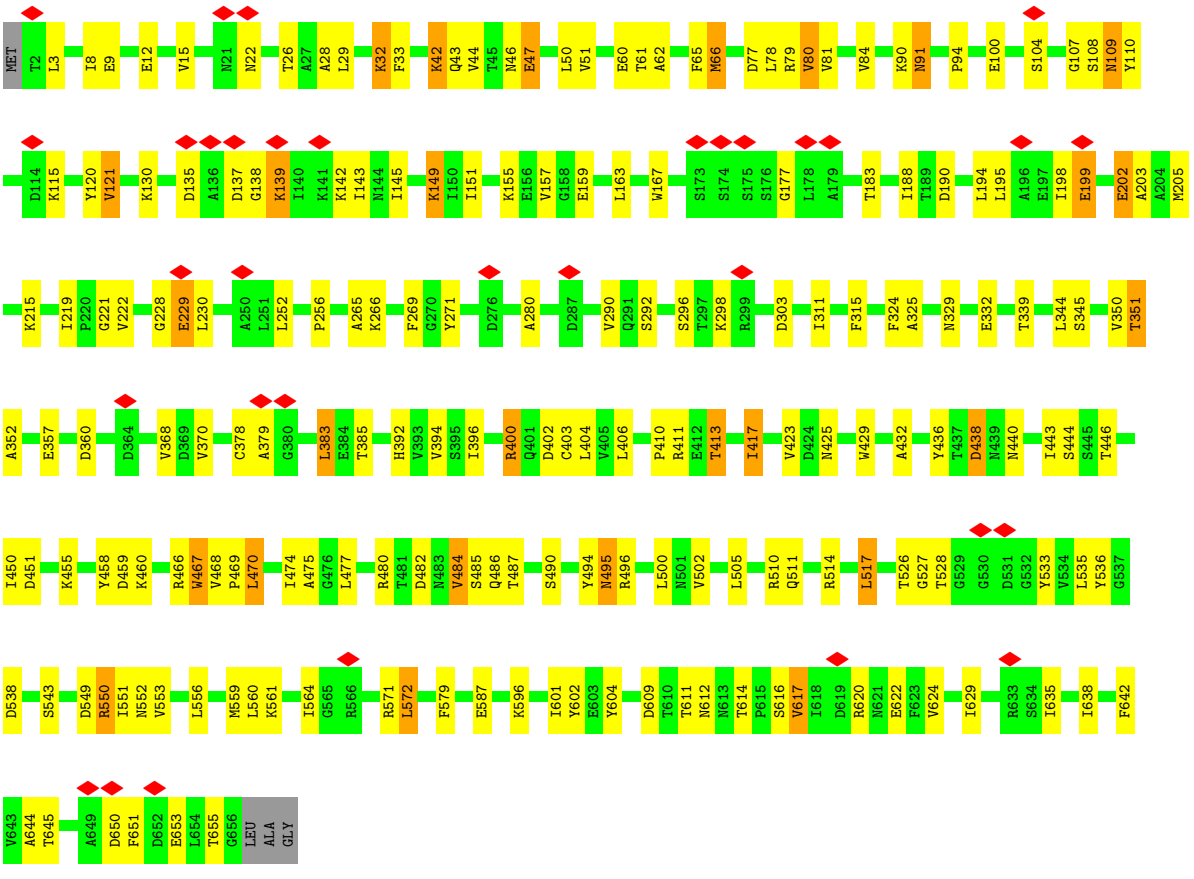
Chain L2:





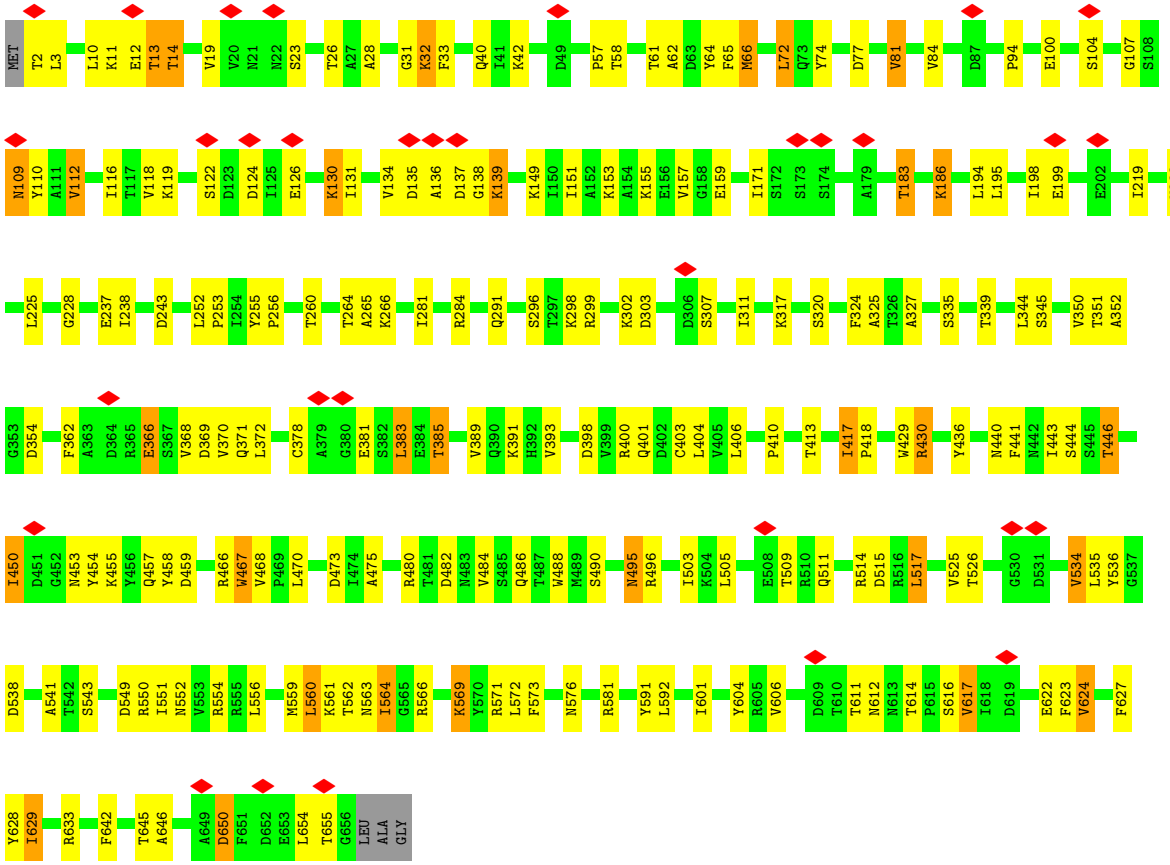
• Molecule 1: gp18, tail sheath protein

Chain L3:



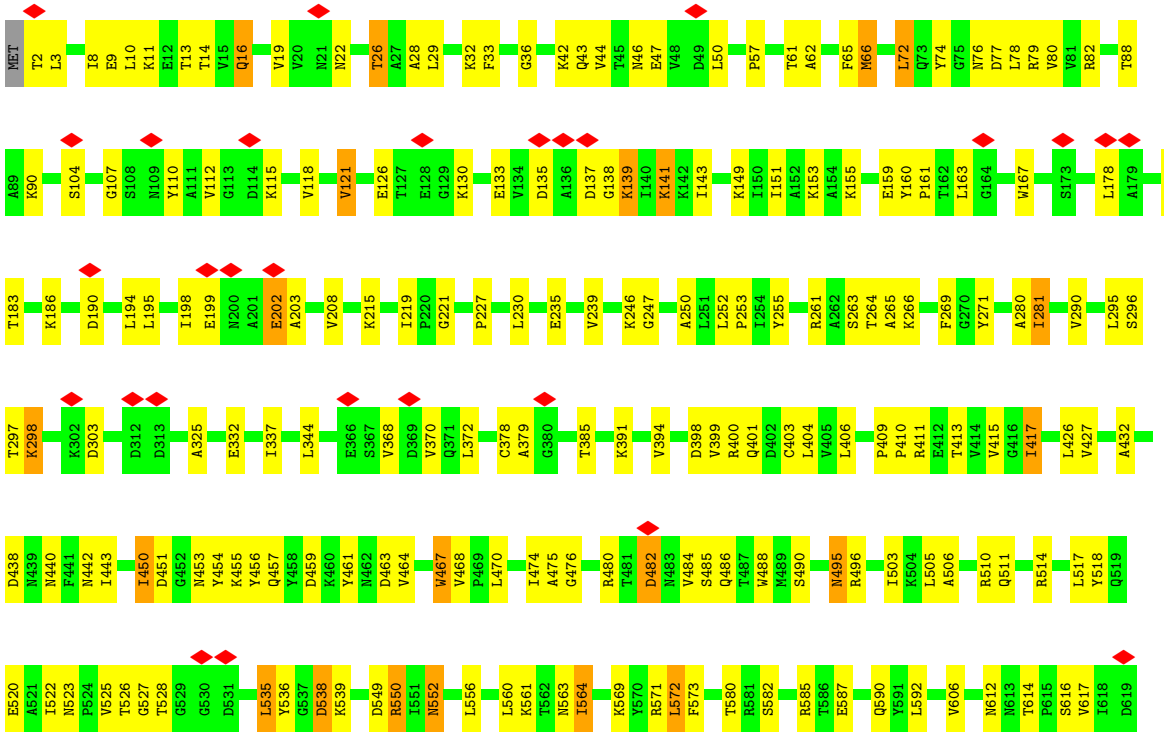
• Molecule 1: gp18, tail sheath protein

Chain L4:



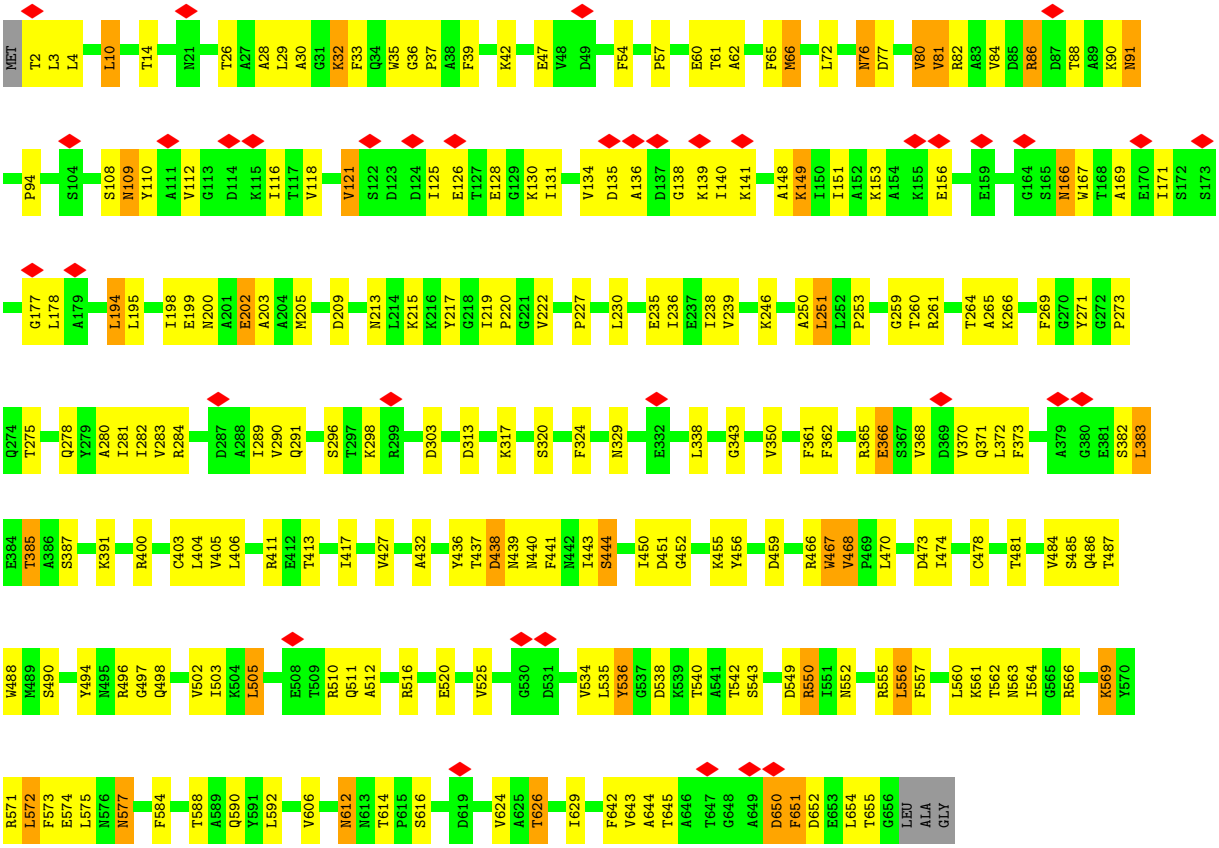
• Molecule 1: gp18, tail sheath protein

Chain L5:



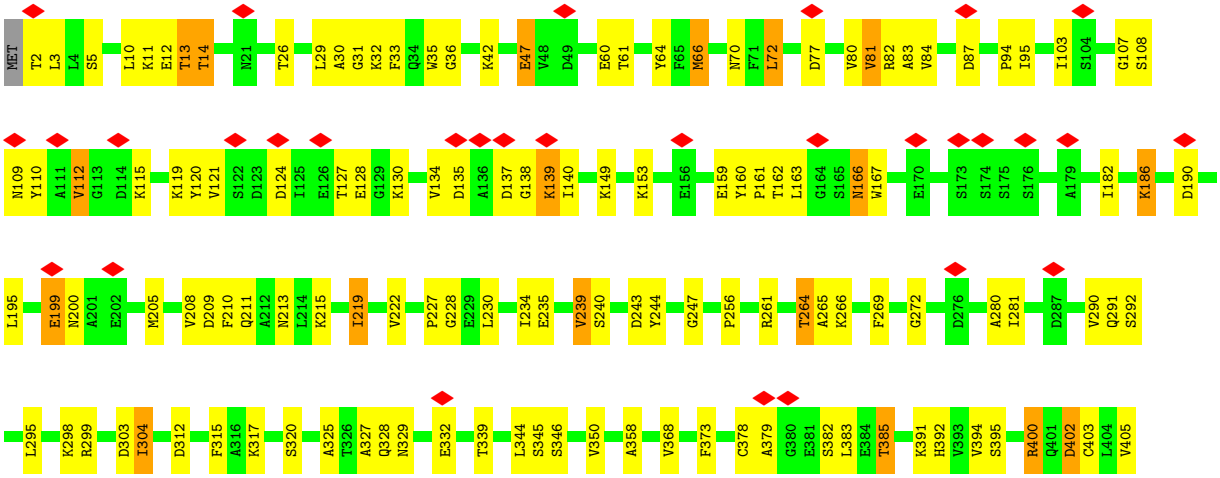
• Molecule 1: gp18, tail sheath protein

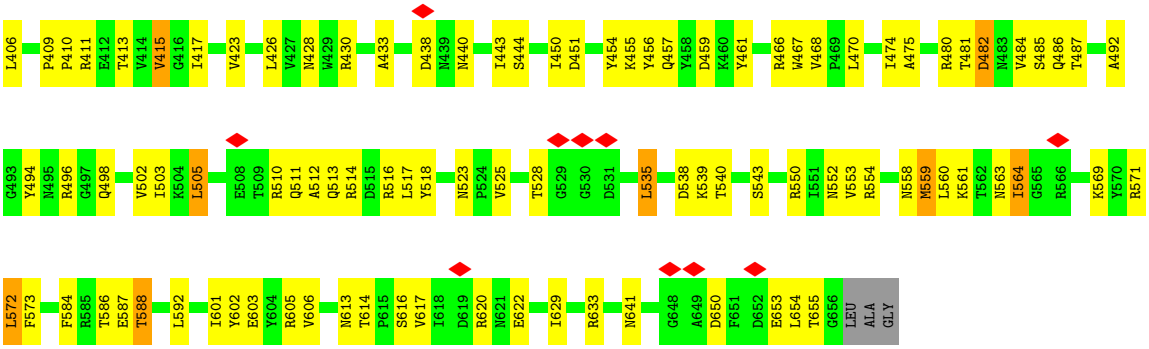
Chain L6:



• Molecule 1: gp18, tail sheath protein

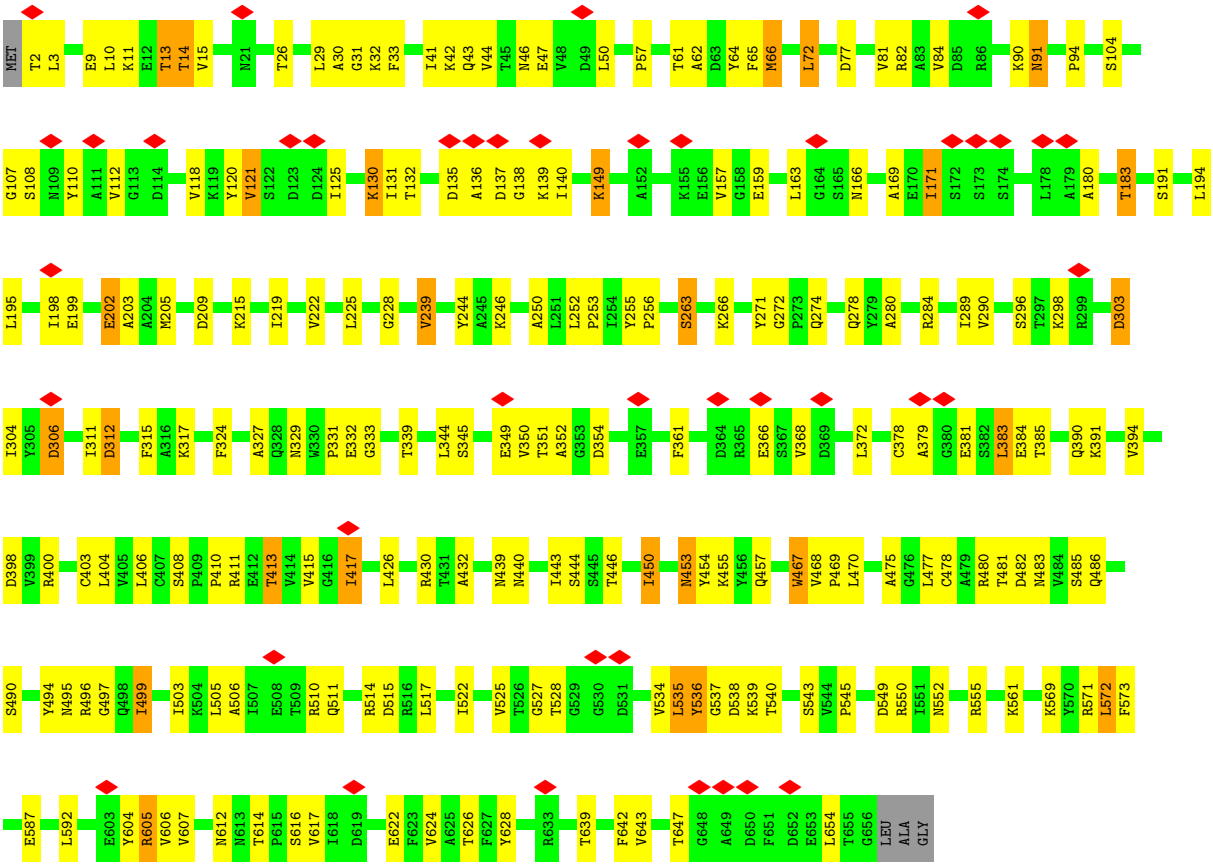
Chain L7:





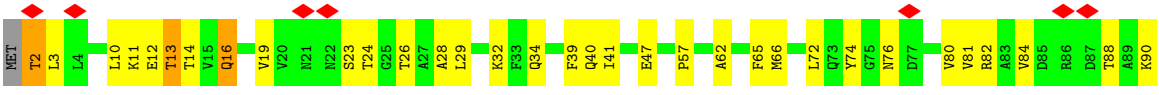
• Molecule 1: gp18, tail sheath protein

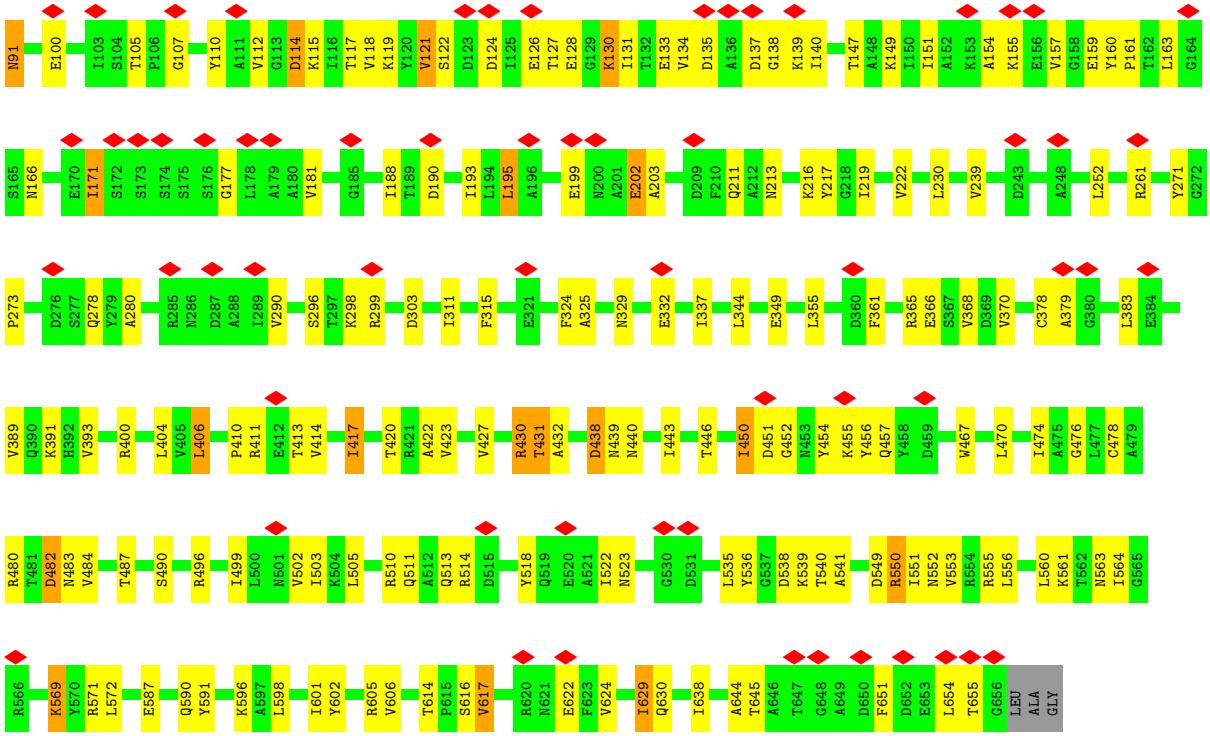
Chain L8:



• Molecule 1: gp18, tail sheath protein

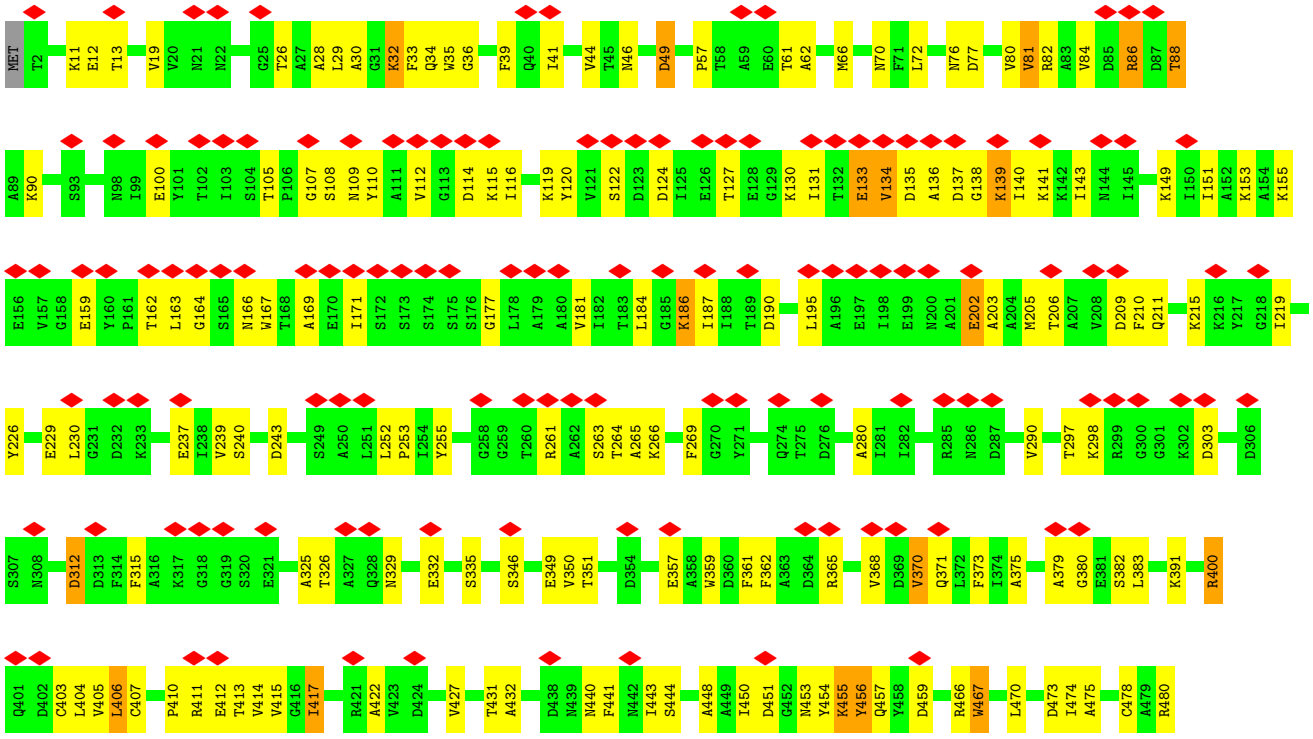
Chain L9:

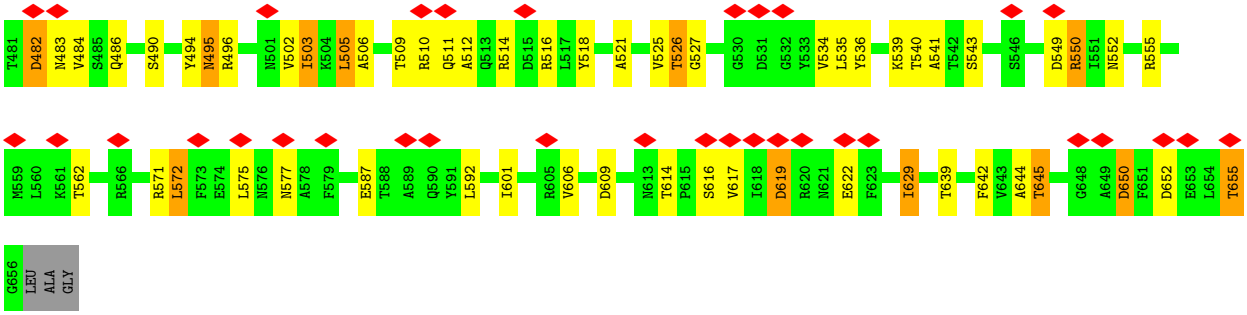




• Molecule 1: gp18, tail sheath protein

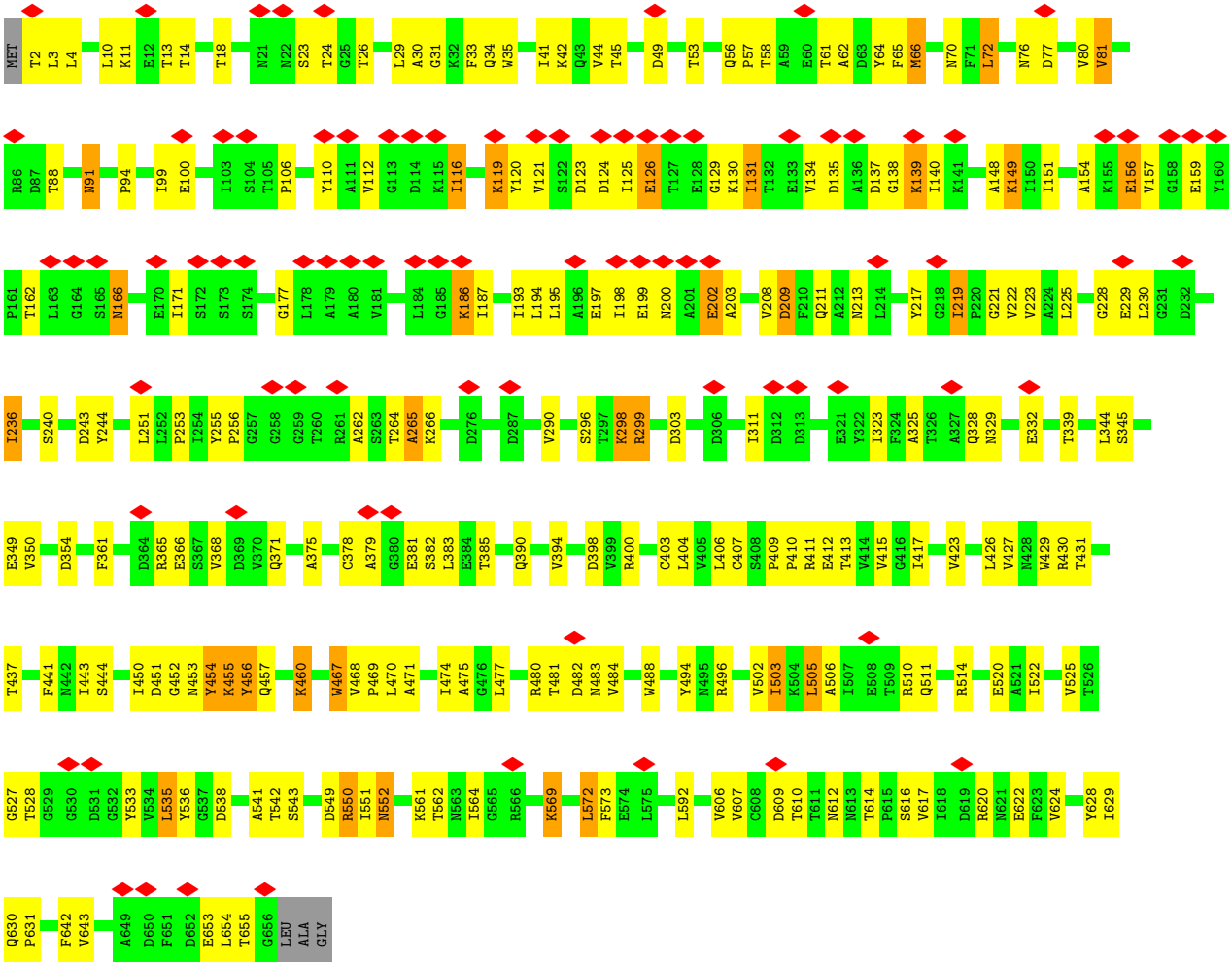
Chain LQ:





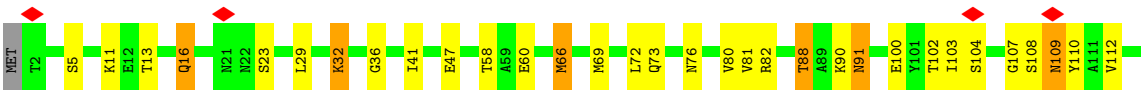
• Molecule 1: gp18, tail sheath protein

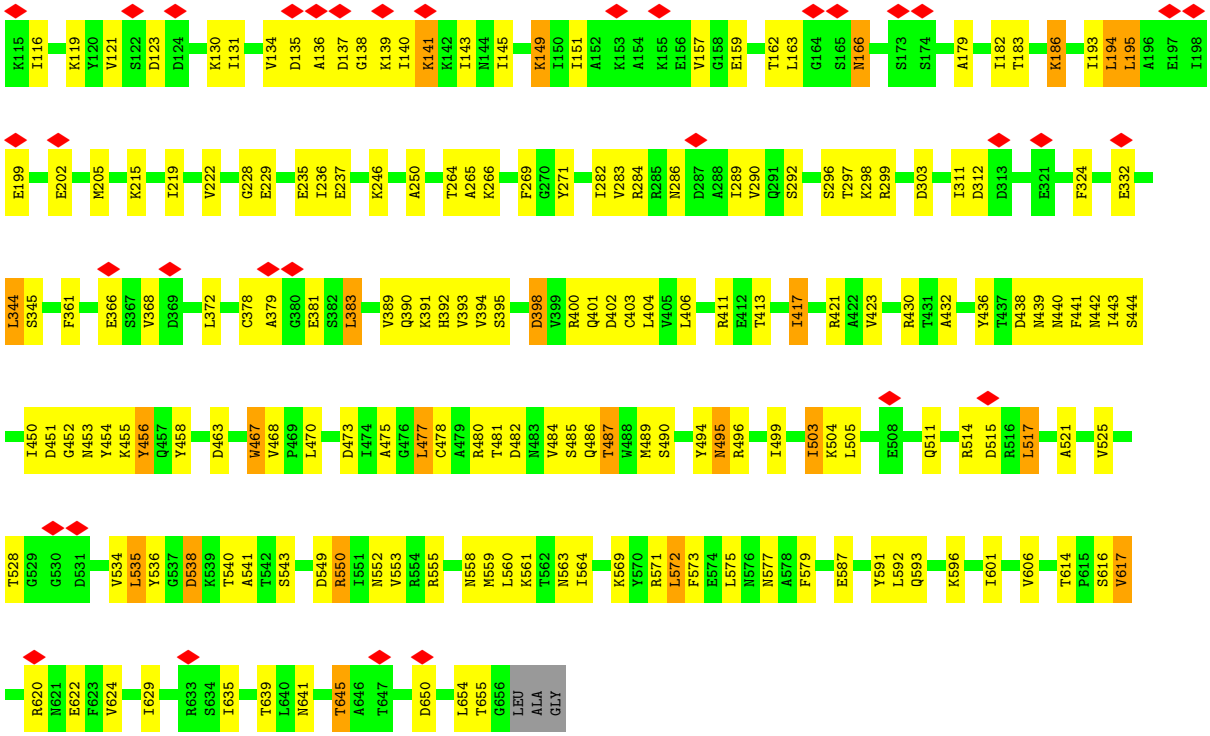
Chain LR:



• Molecule 1: gp18, tail sheath protein

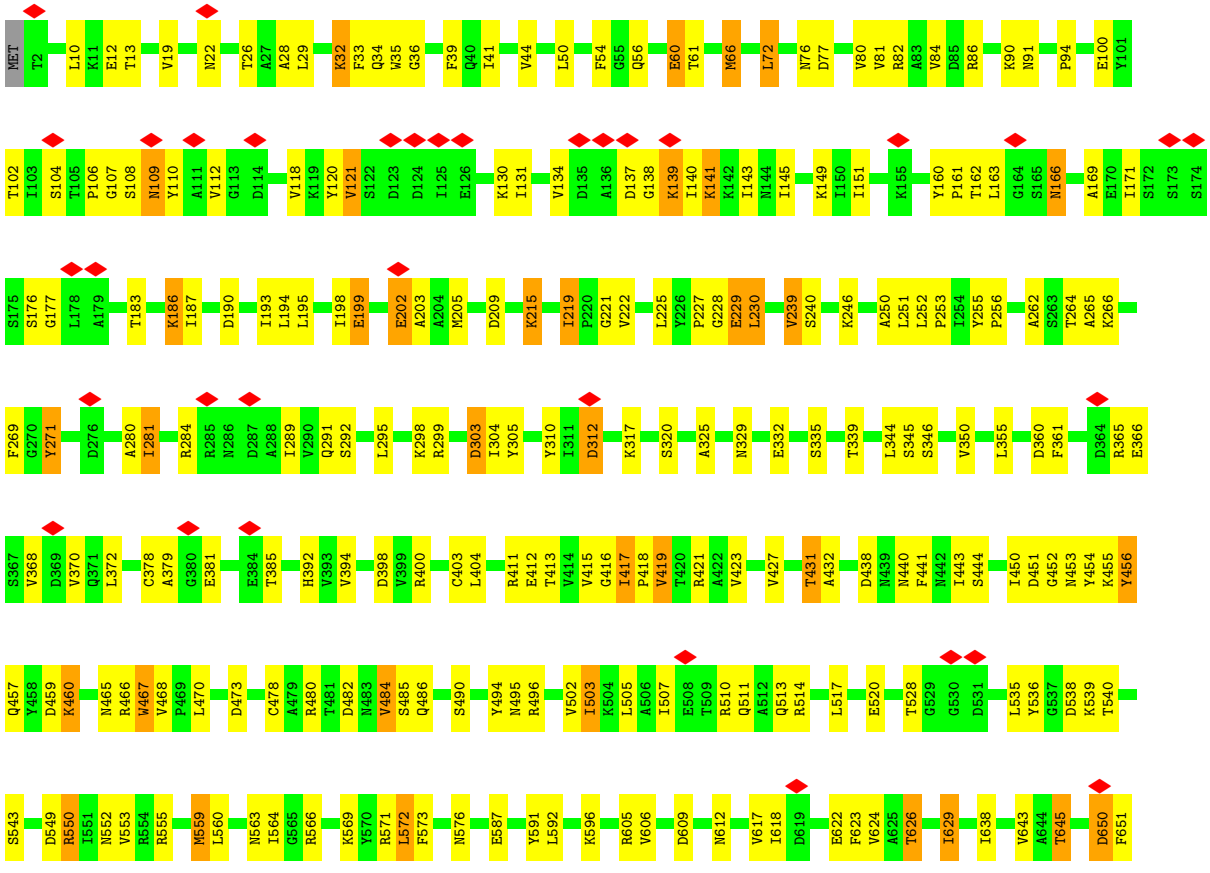
Chain LS:

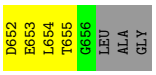




• Molecule 1: gp18, tail sheath protein

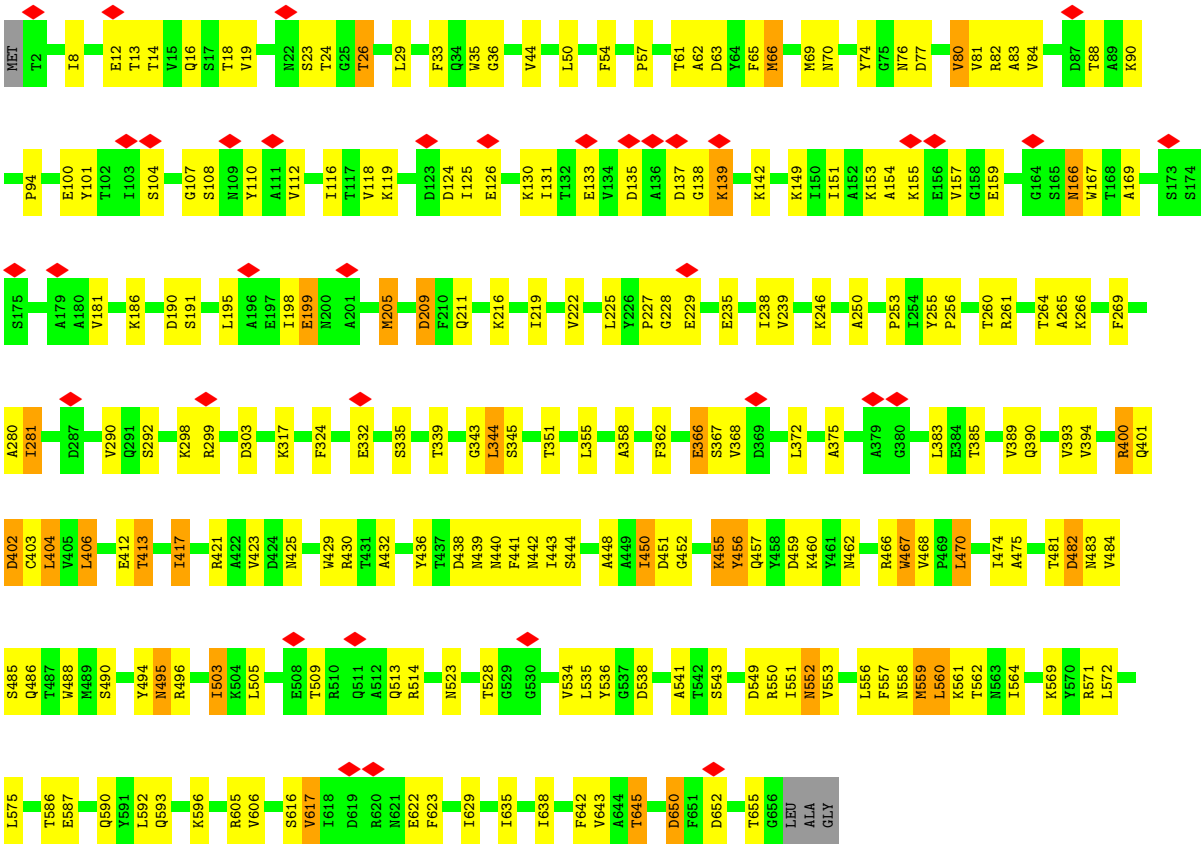
Chain LU:





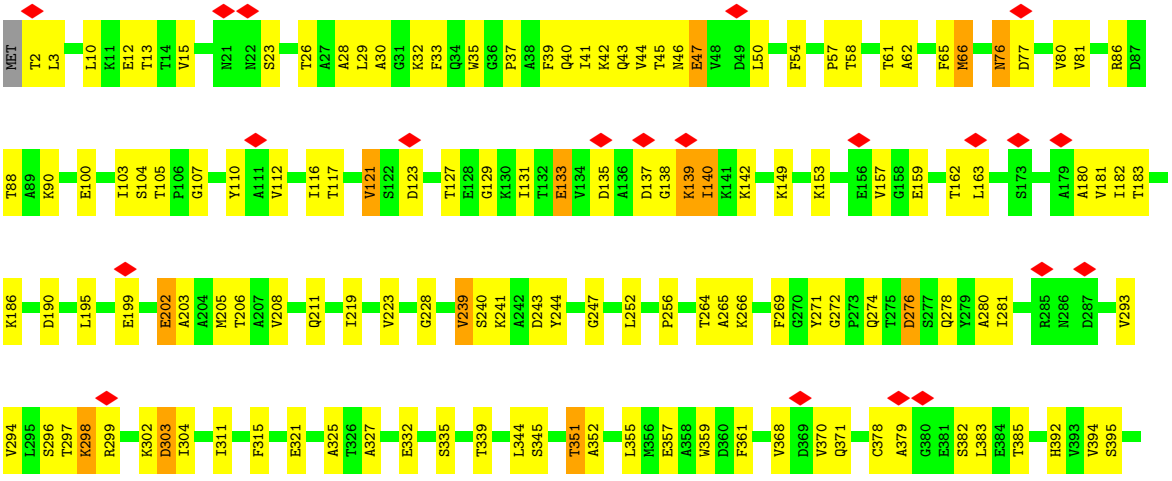
• Molecule 1: gp18, tail sheath protein

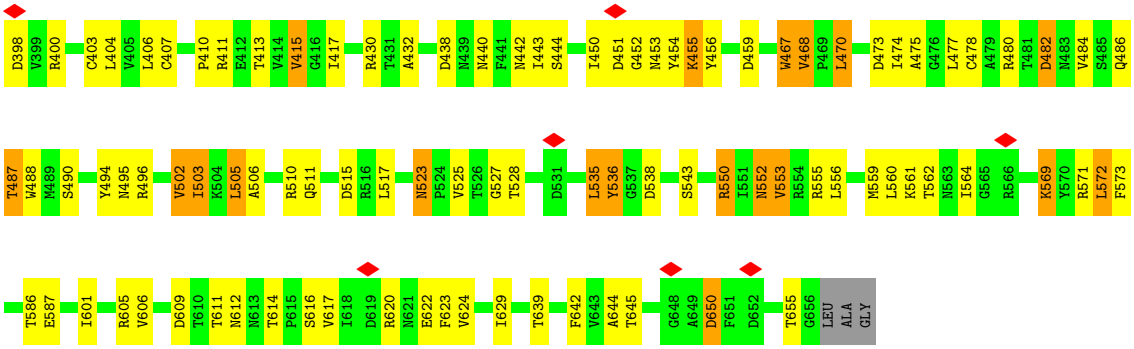
Chain LV:



• Molecule 1: gp18, tail sheath protein

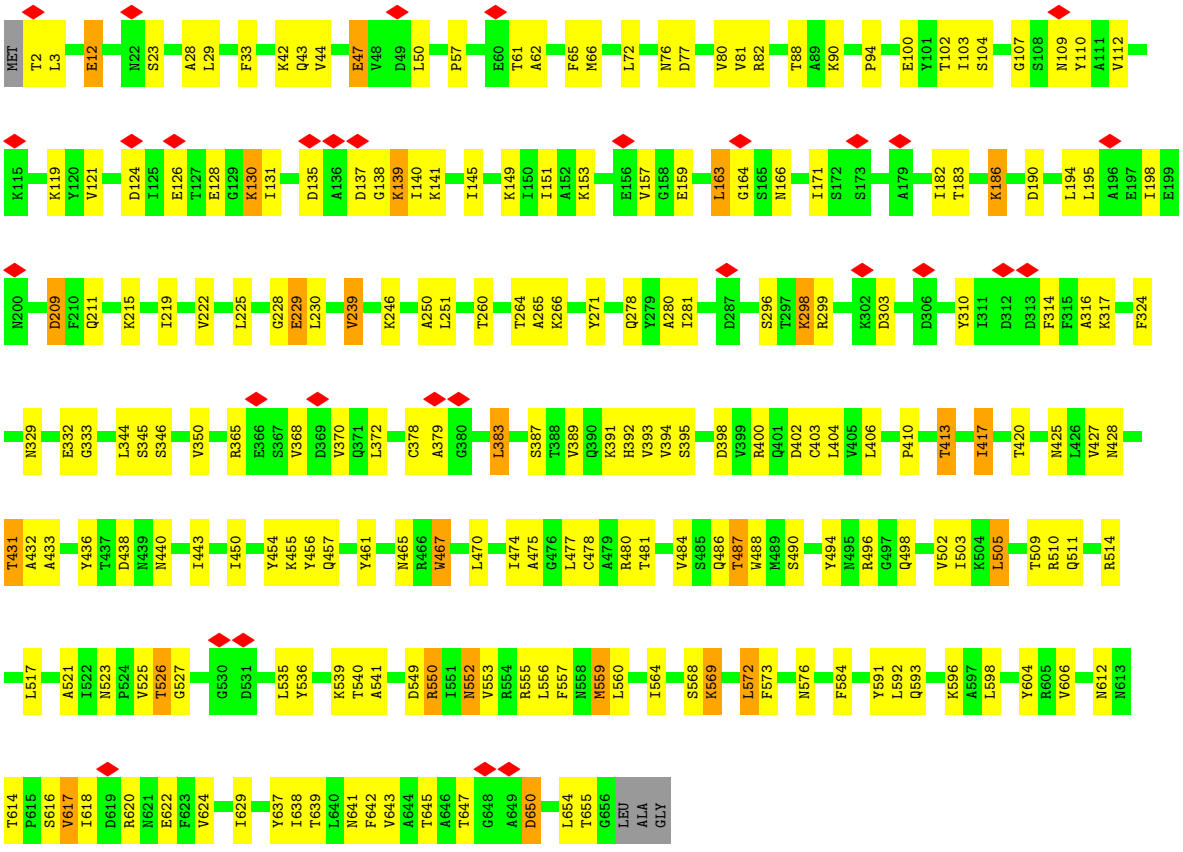
Chain LW:





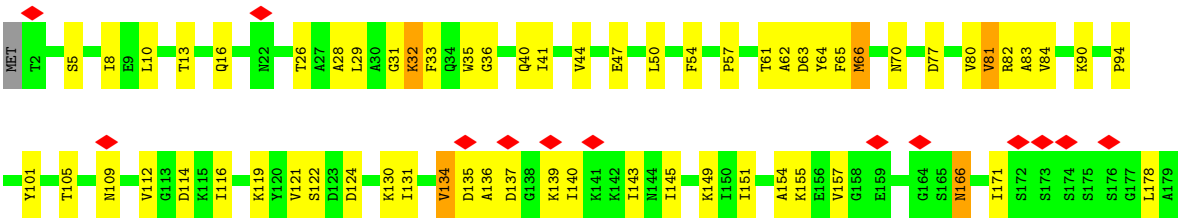
• Molecule 1: gp18, tail sheath protein

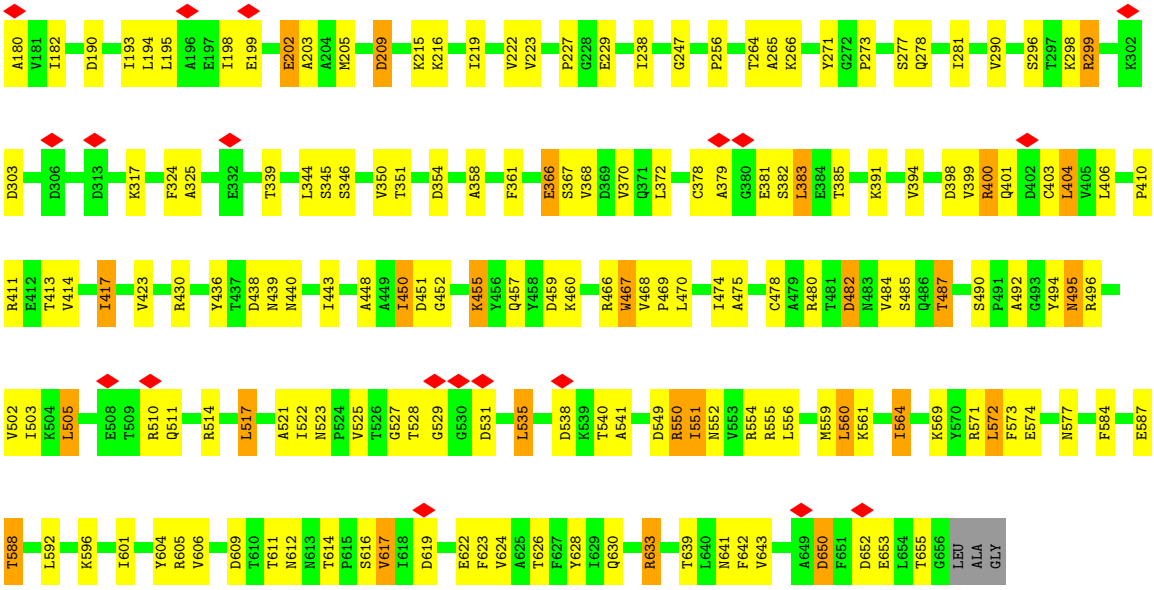
Chain LX:



• Molecule 1: gp18, tail sheath protein

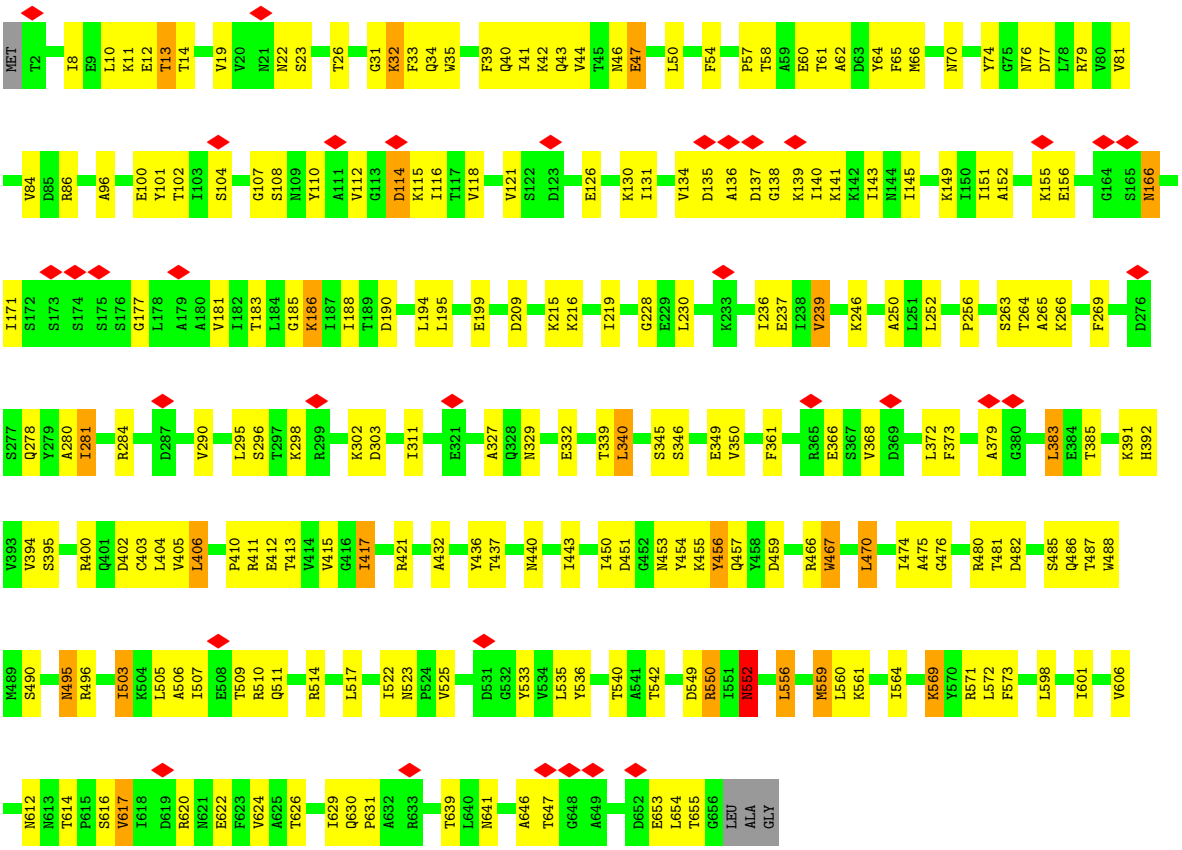
Chain LY:





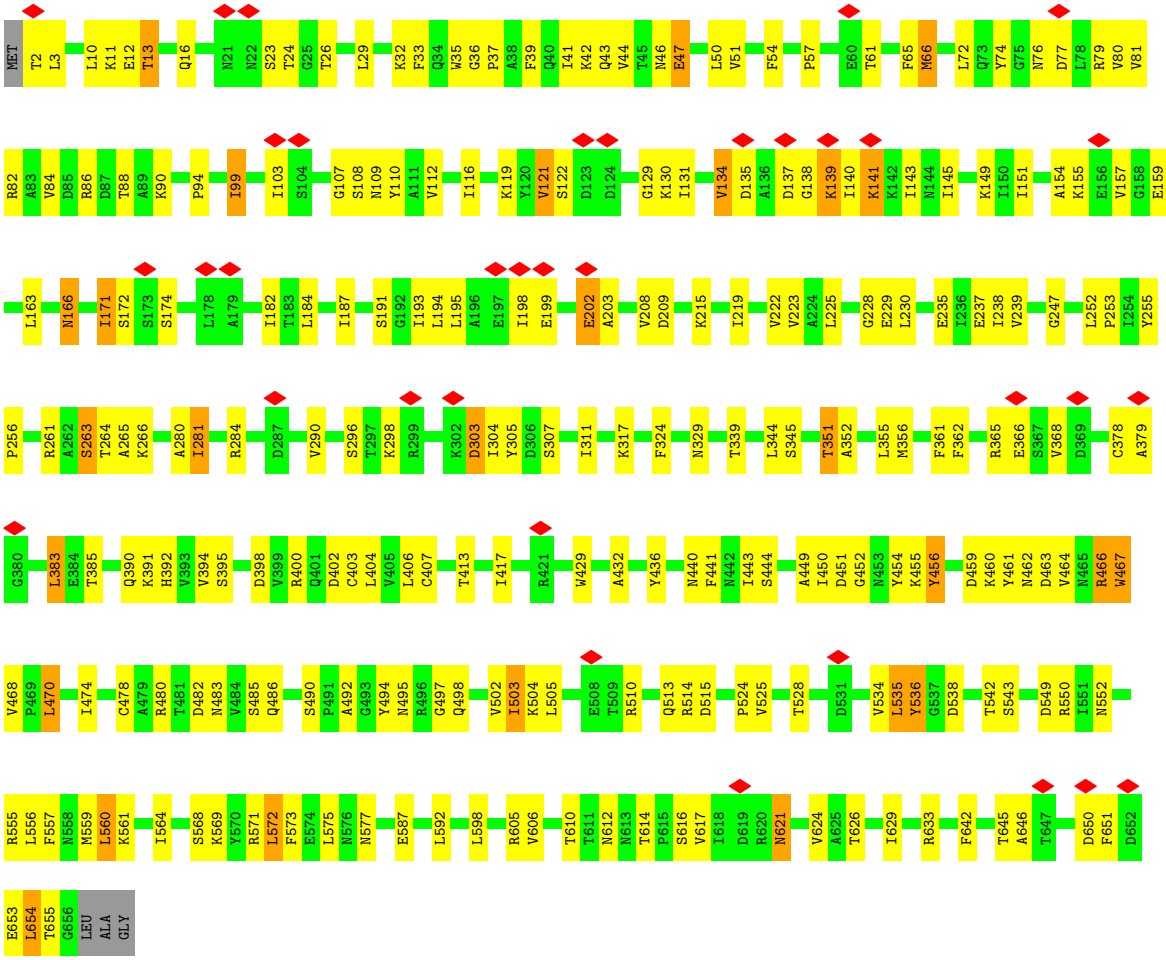
• Molecule 1: gp18, tail sheath protein

Chain LZ:



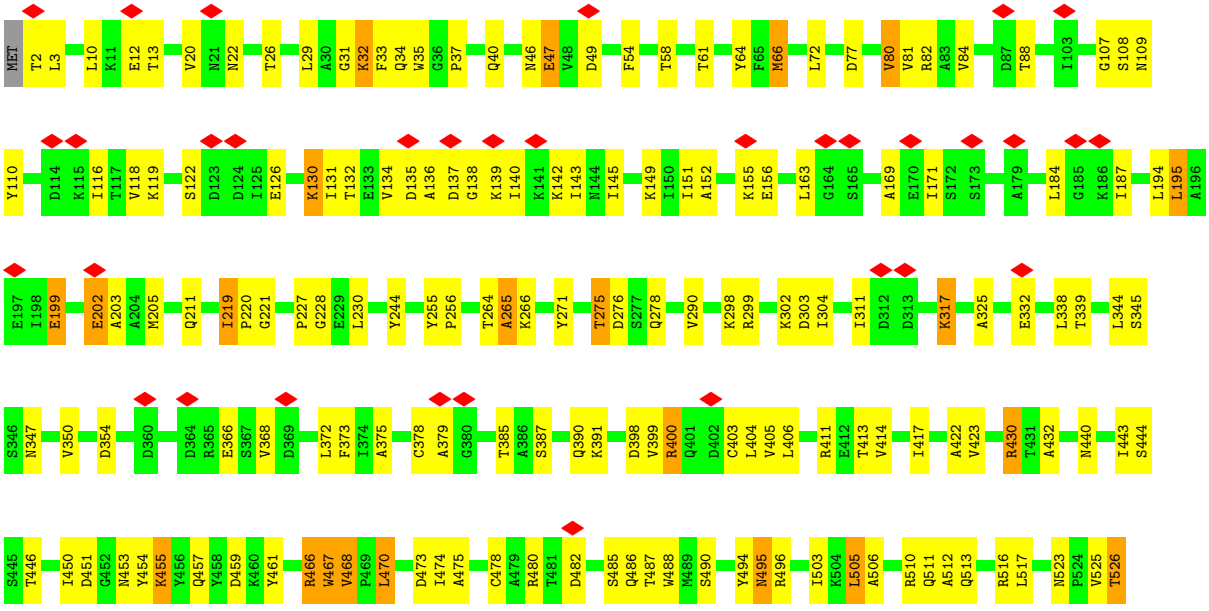
• Molecule 1: gp18, tail sheath protein

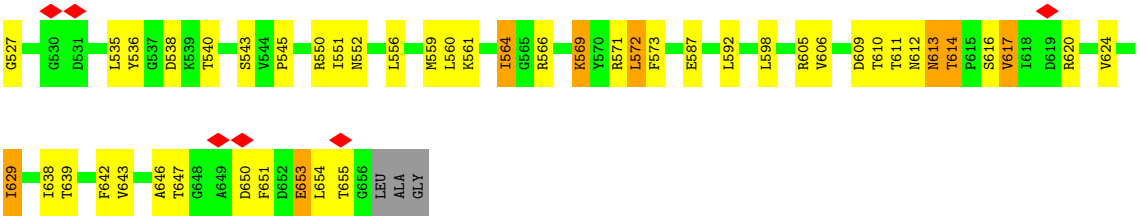
Chain La:



• Molecule 1: gp18, tail sheath protein

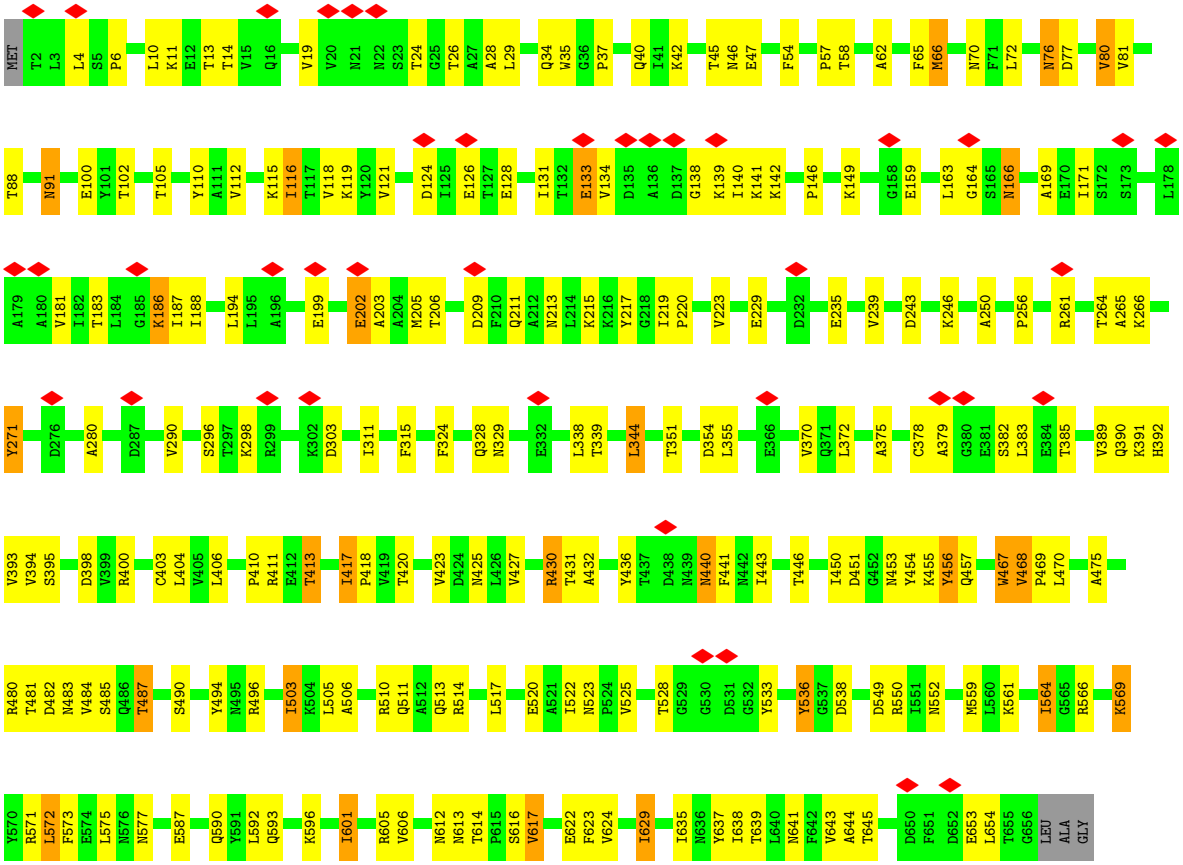
Chain Lb:





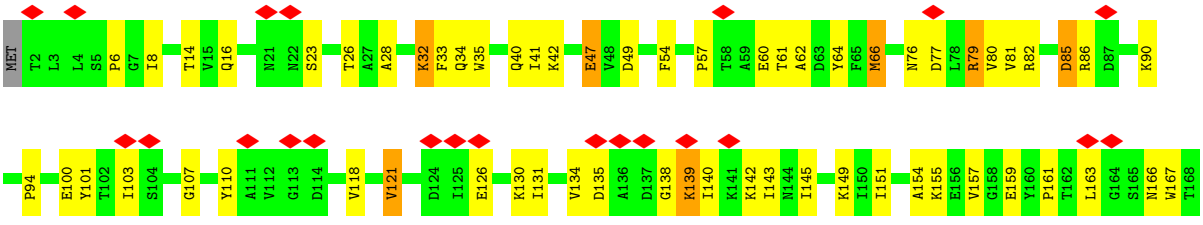
• Molecule 1: gp18, tail sheath protein

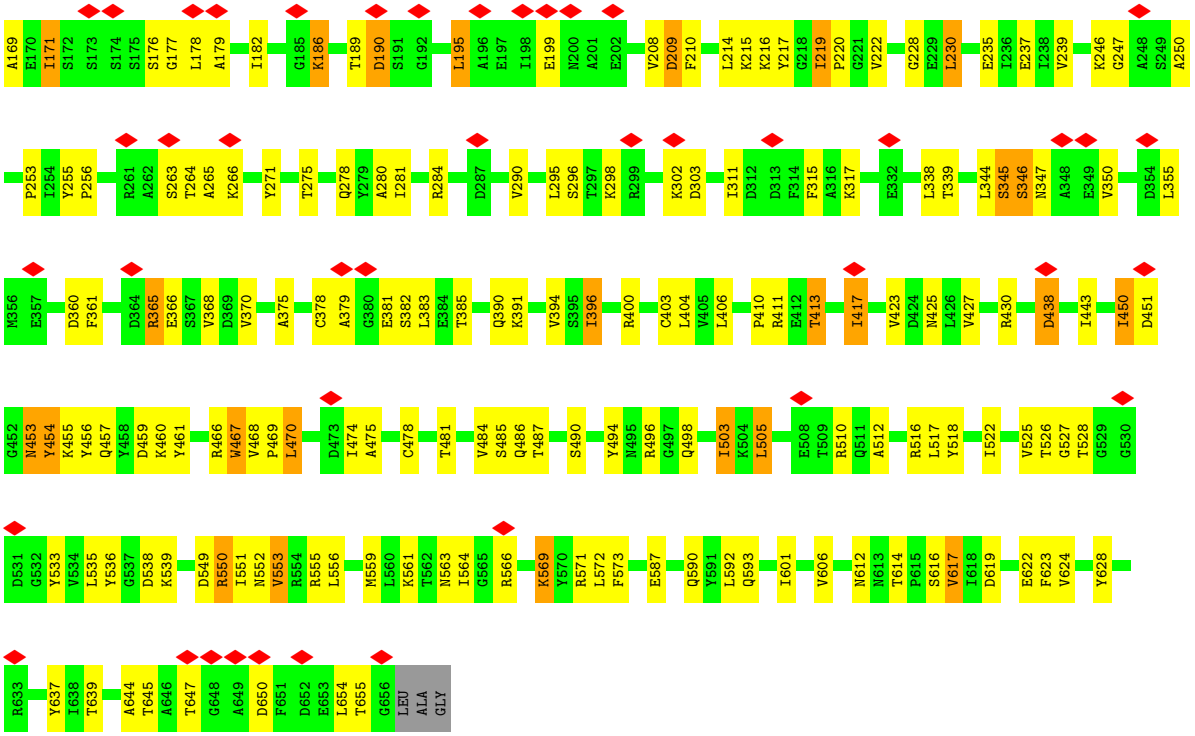
Chain Lc:



• Molecule 1: gp18, tail sheath protein

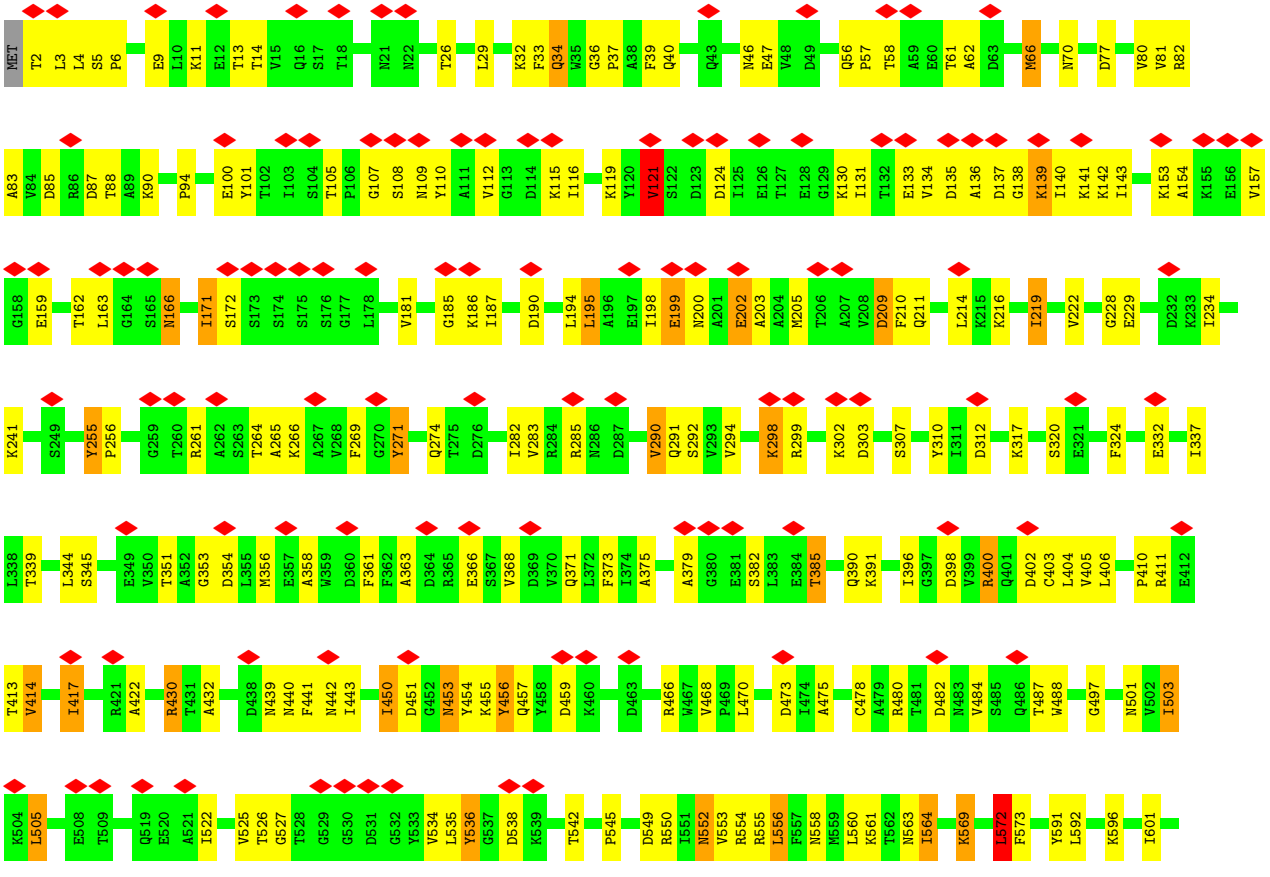
Chain Ld:

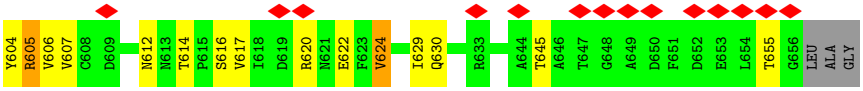




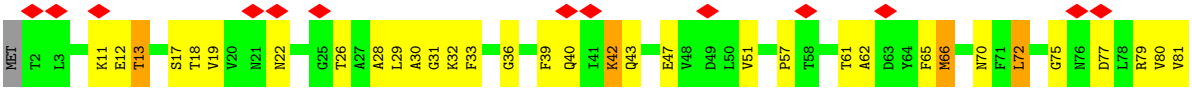
• Molecule 1: gp18, tail sheath protein

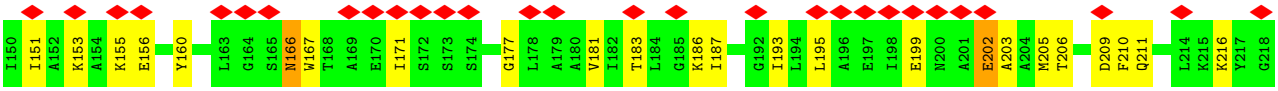
Chain Le:

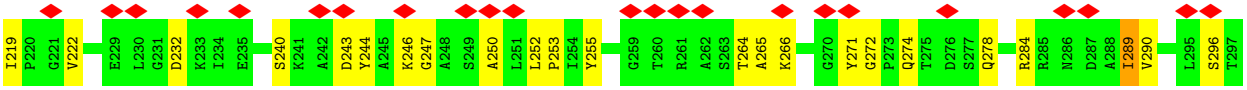


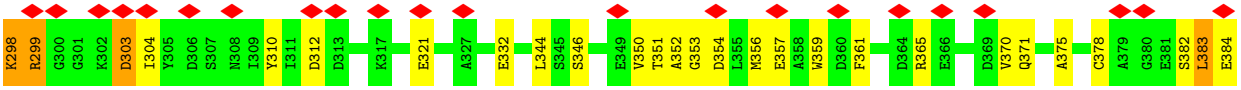


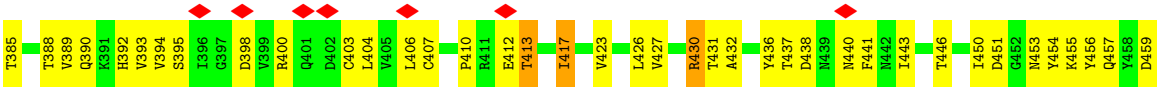
• Molecule 1: gp18, tail sheath protein

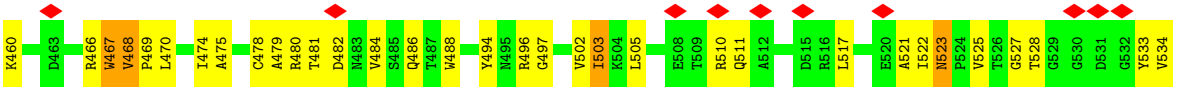


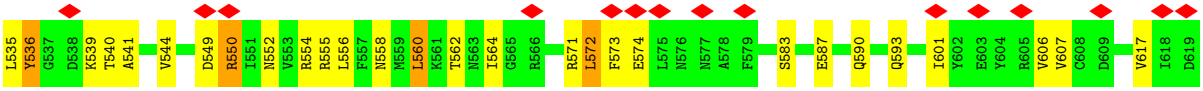


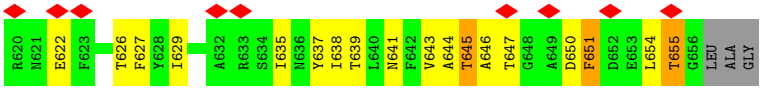




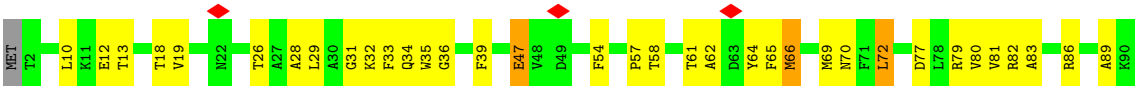


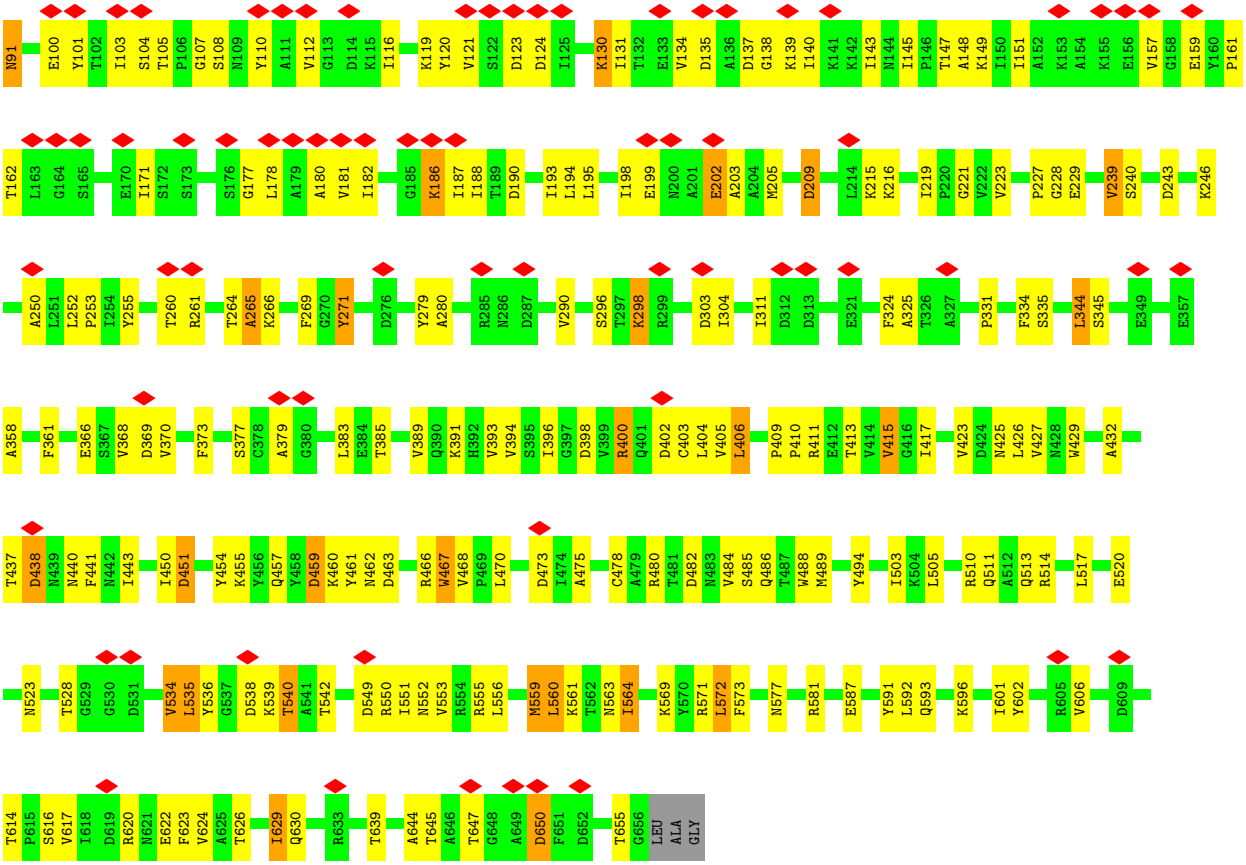






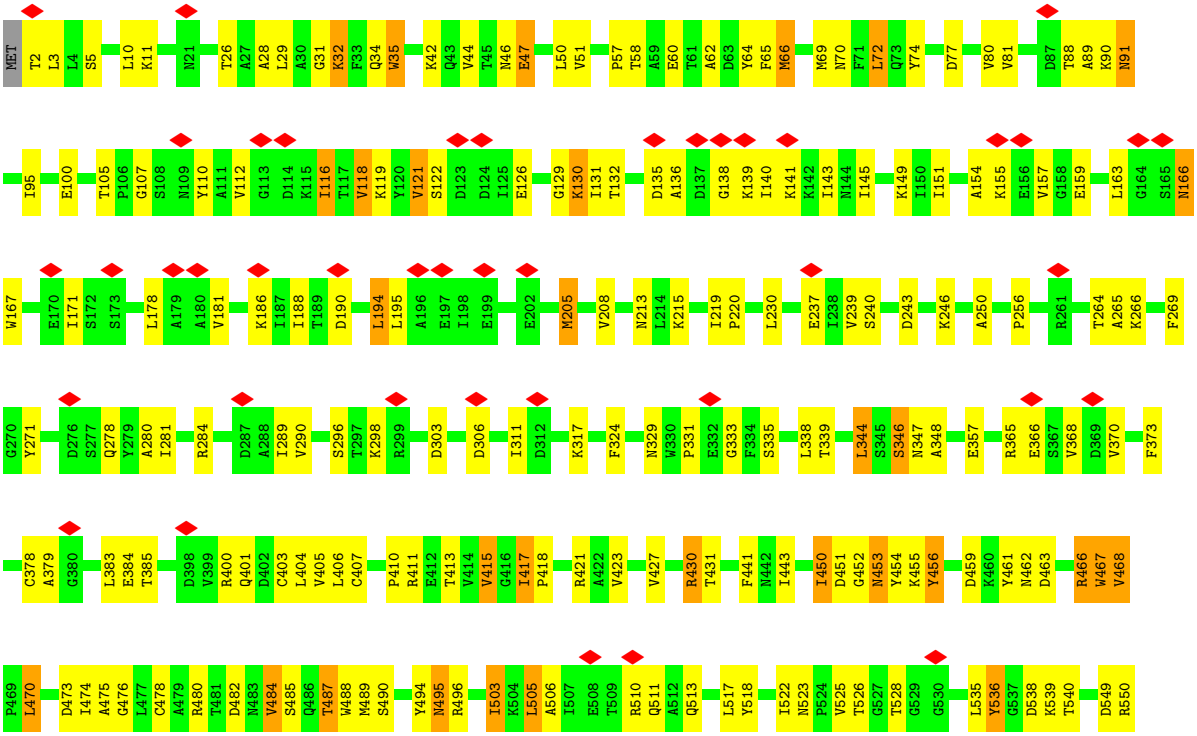
• Molecule 1: gp18, tail sheath protein

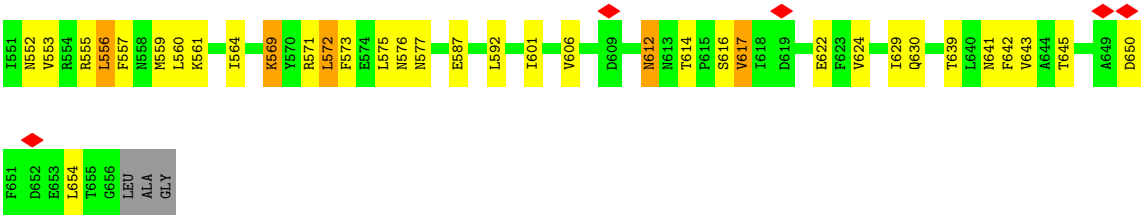




• Molecule 1: gp18, tail sheath protein

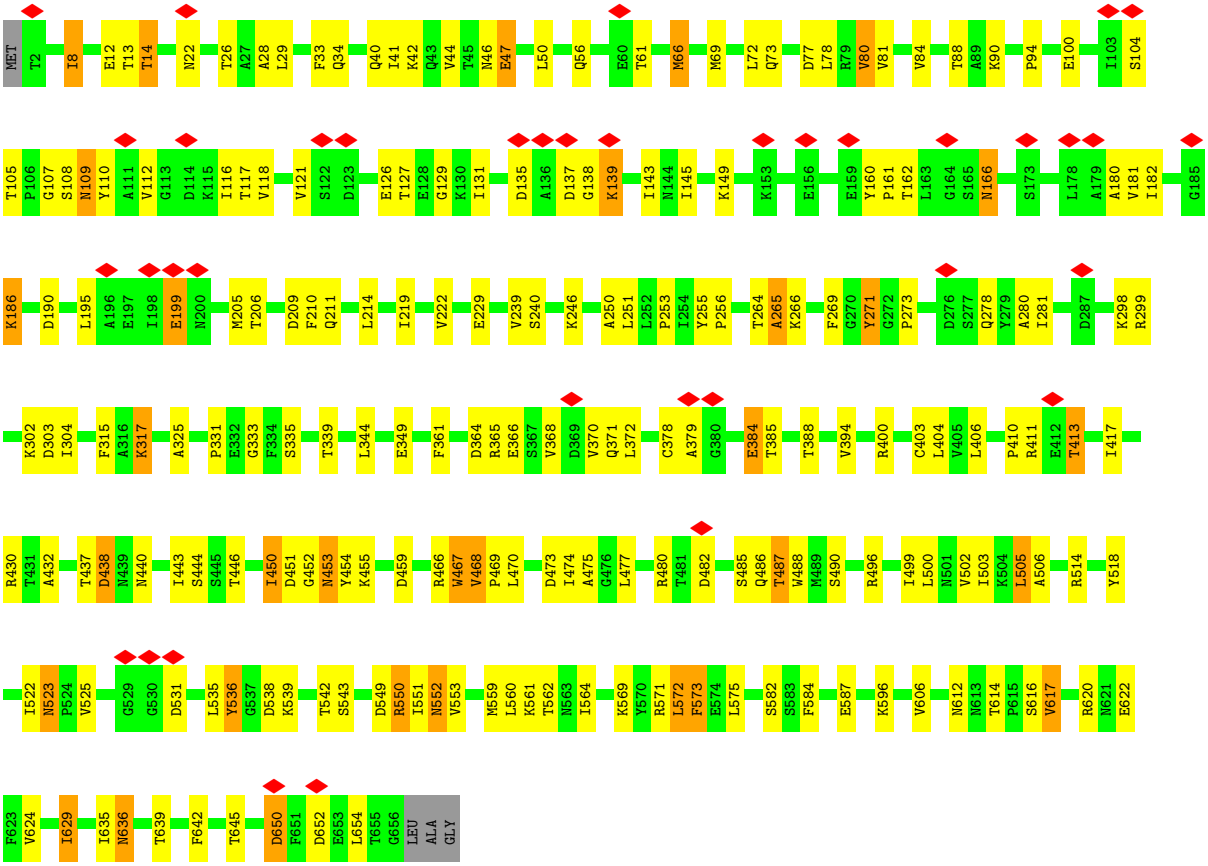
Chain Lx:





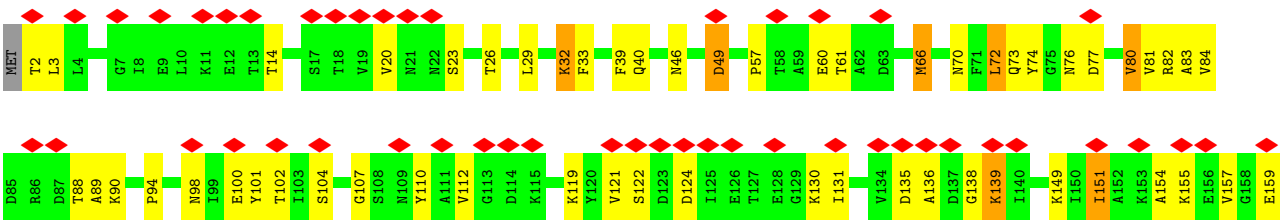
• Molecule 1: gp18, tail sheath protein

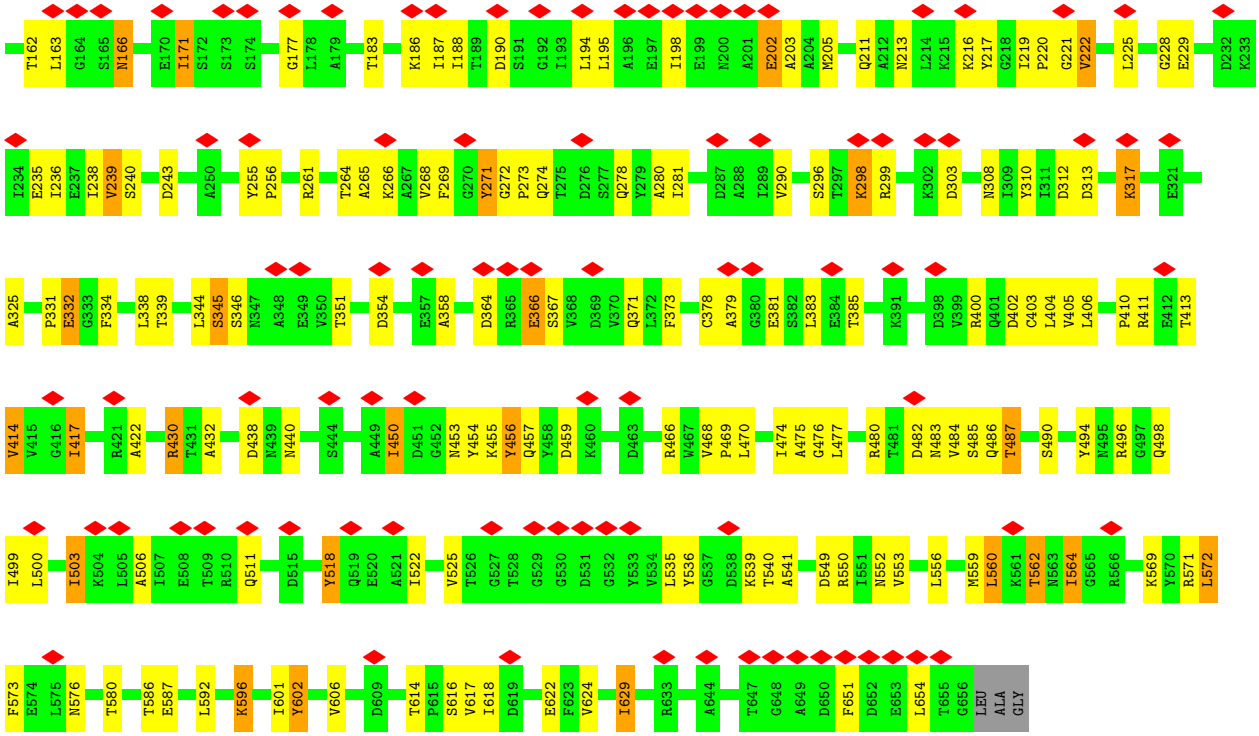
Chain Lz:



• Molecule 1: gp18, tail sheath protein

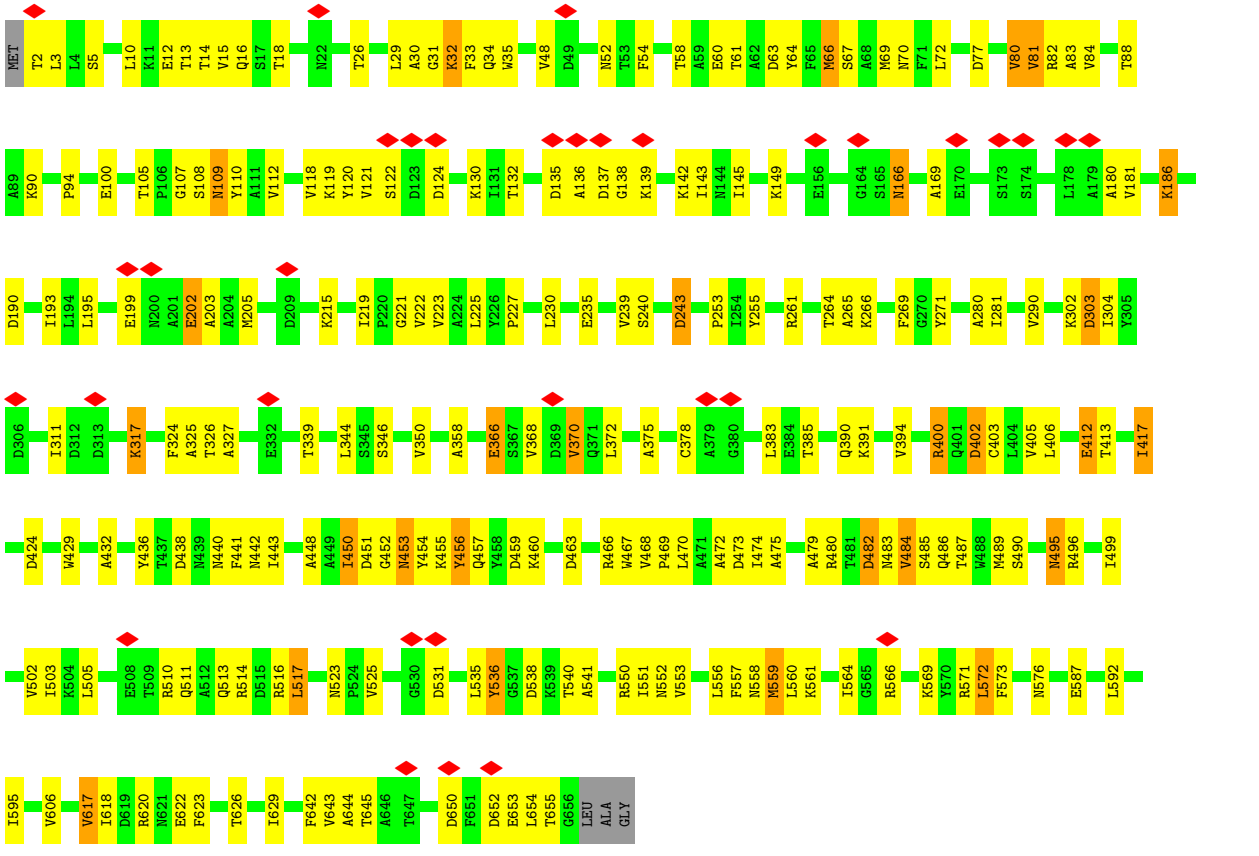
Chain M0:





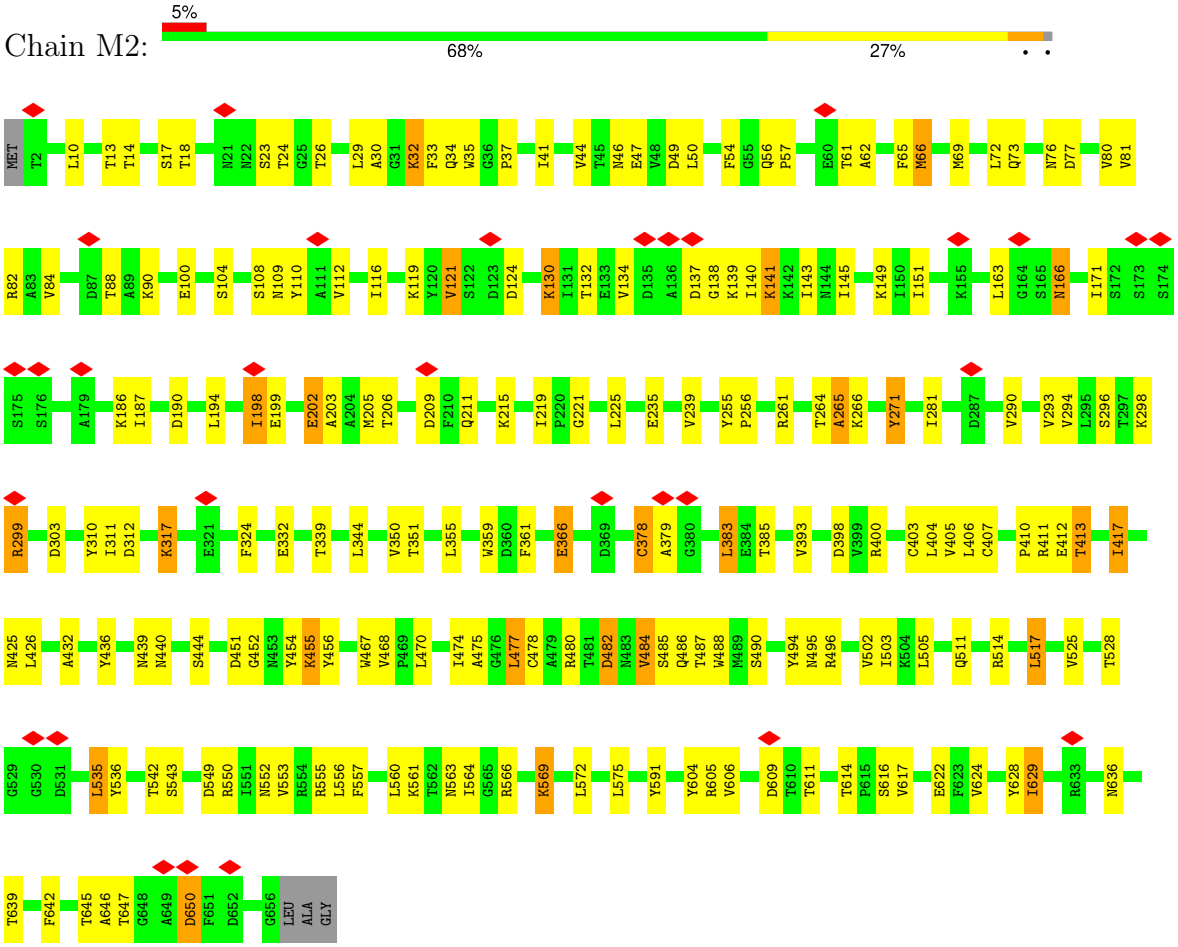
• Molecule 1: gp18, tail sheath protein

Chain M1:



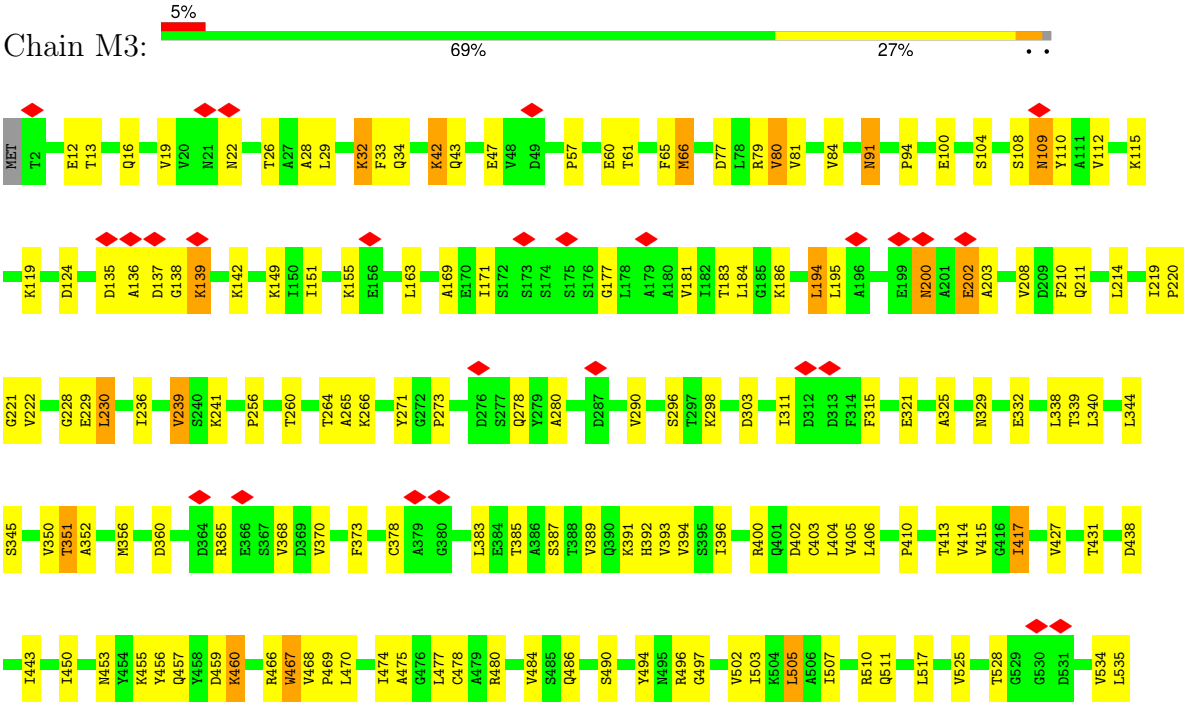
• Molecule 1: gp18, tail sheath protein

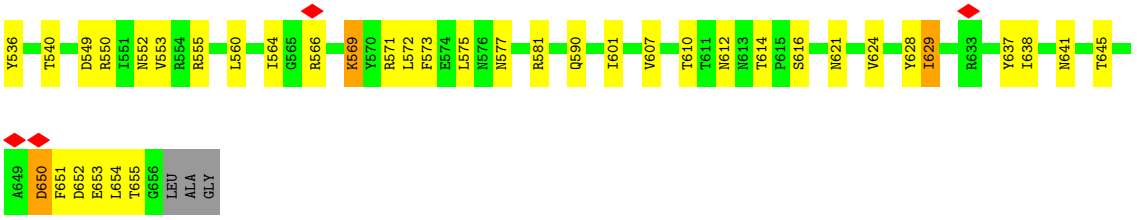
Chain M2:



• Molecule 1: gp18, tail sheath protein

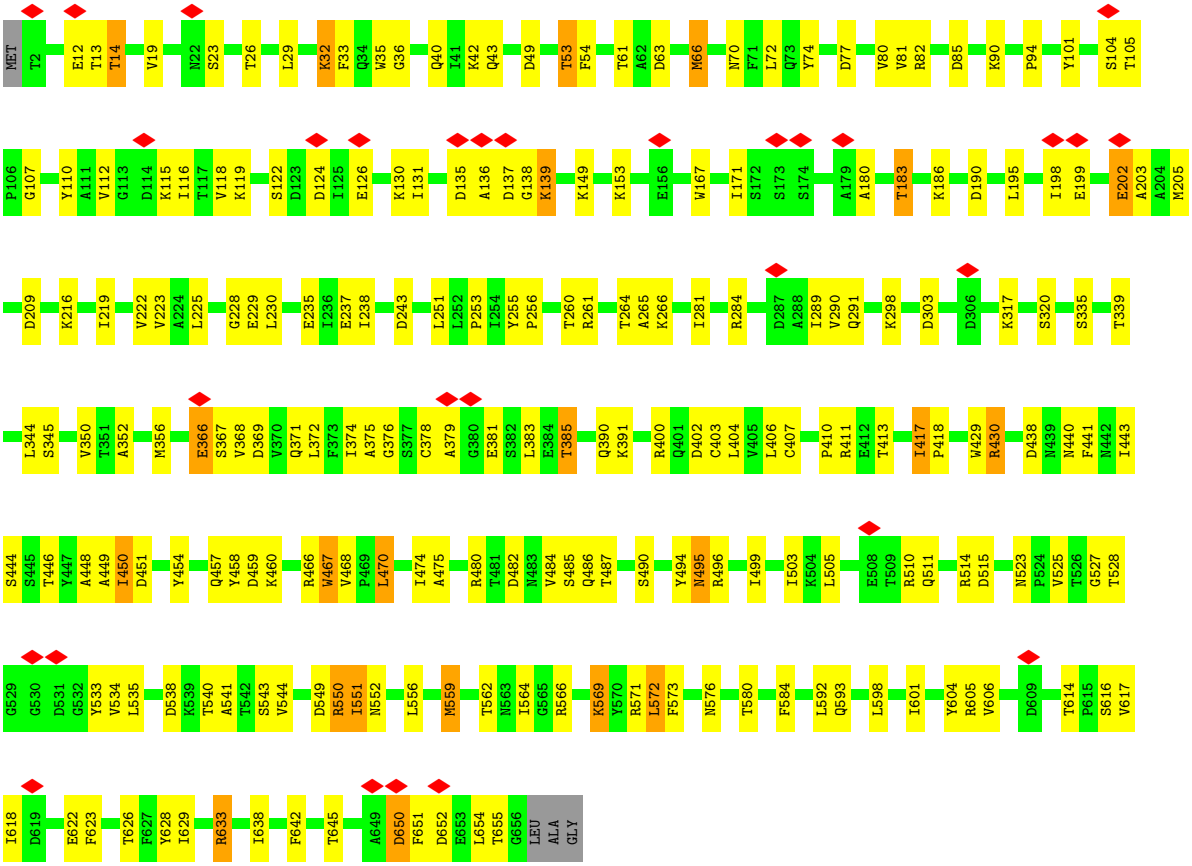
Chain M3:





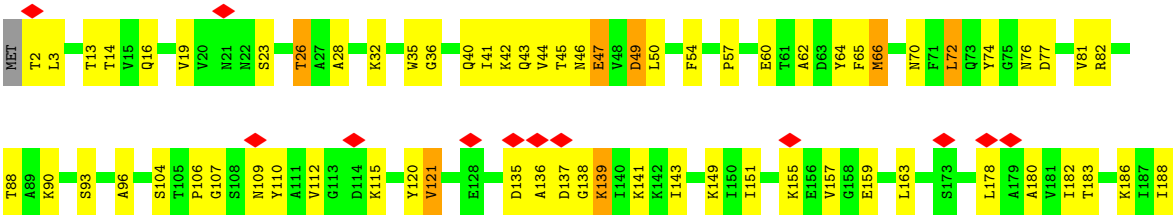
• Molecule 1: gp18, tail sheath protein

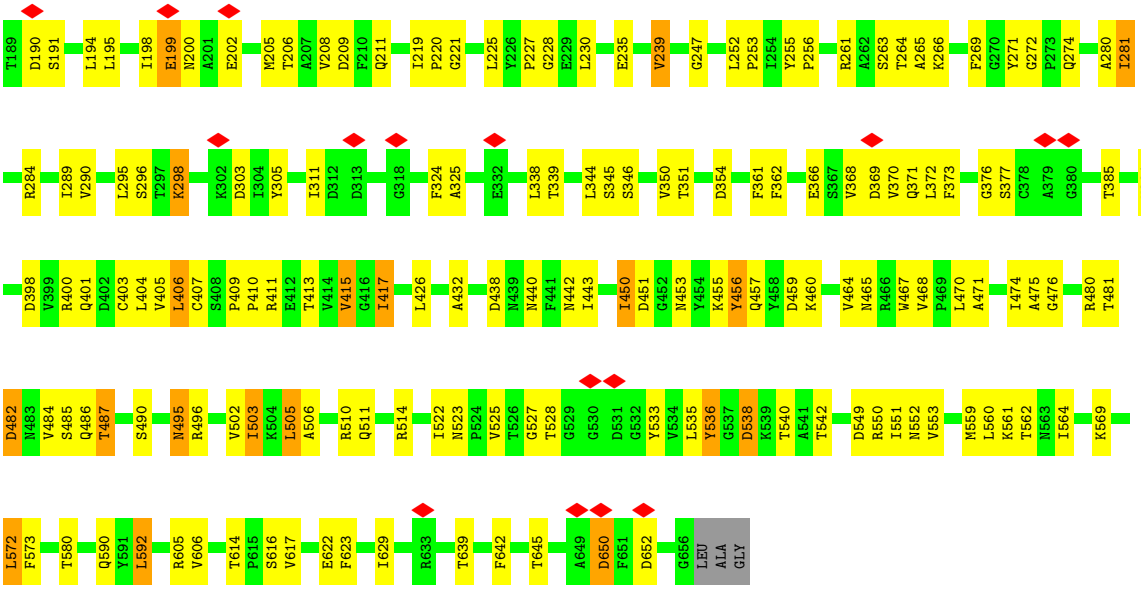
Chain M4:



• Molecule 1: gp18, tail sheath protein

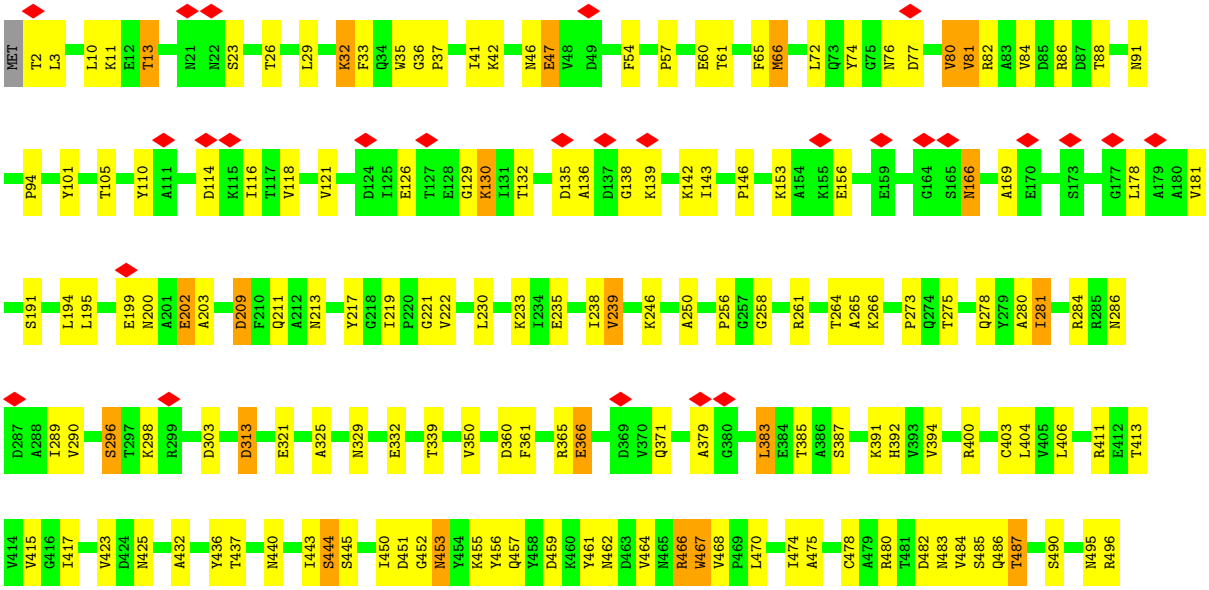
Chain M5:





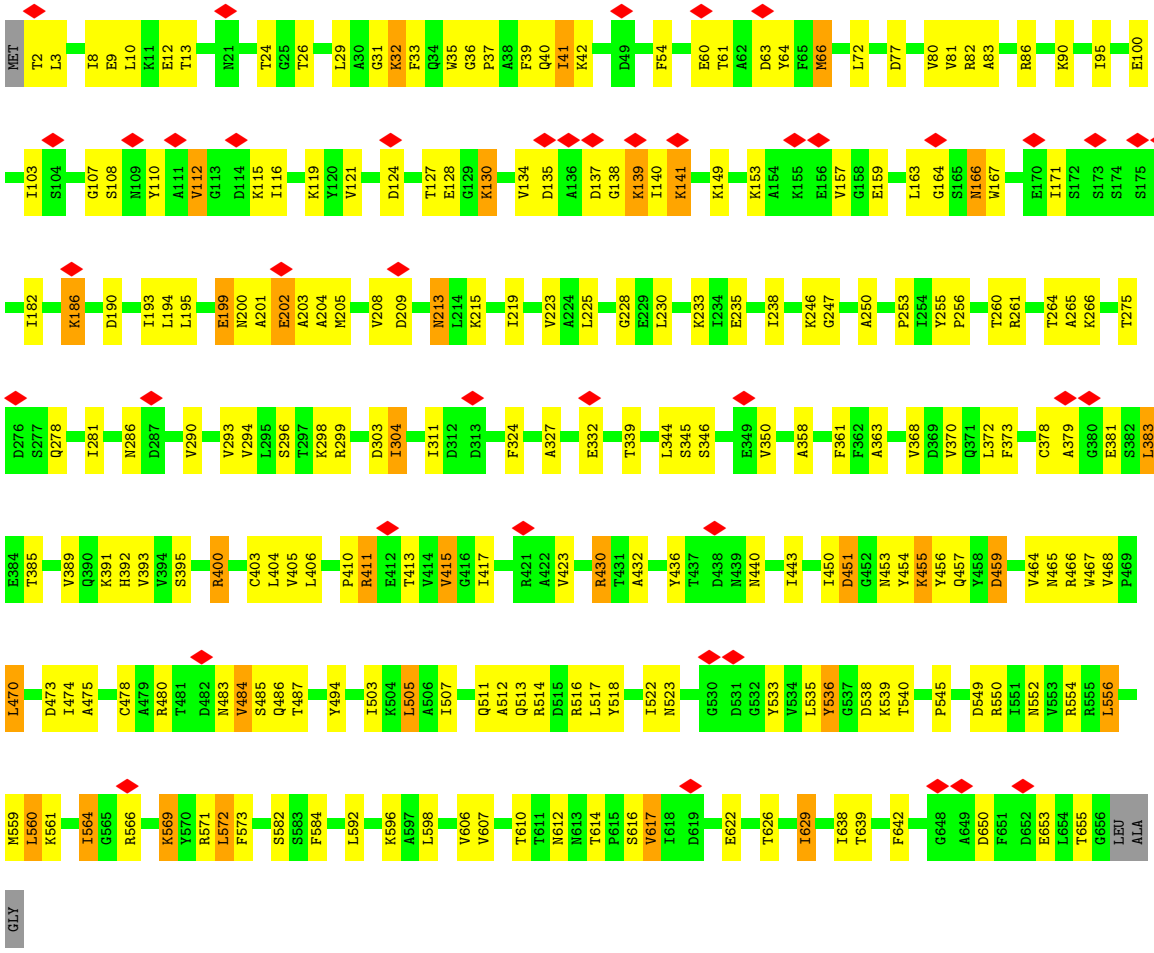
• Molecule 1: gp18, tail sheath protein

Chain M6:



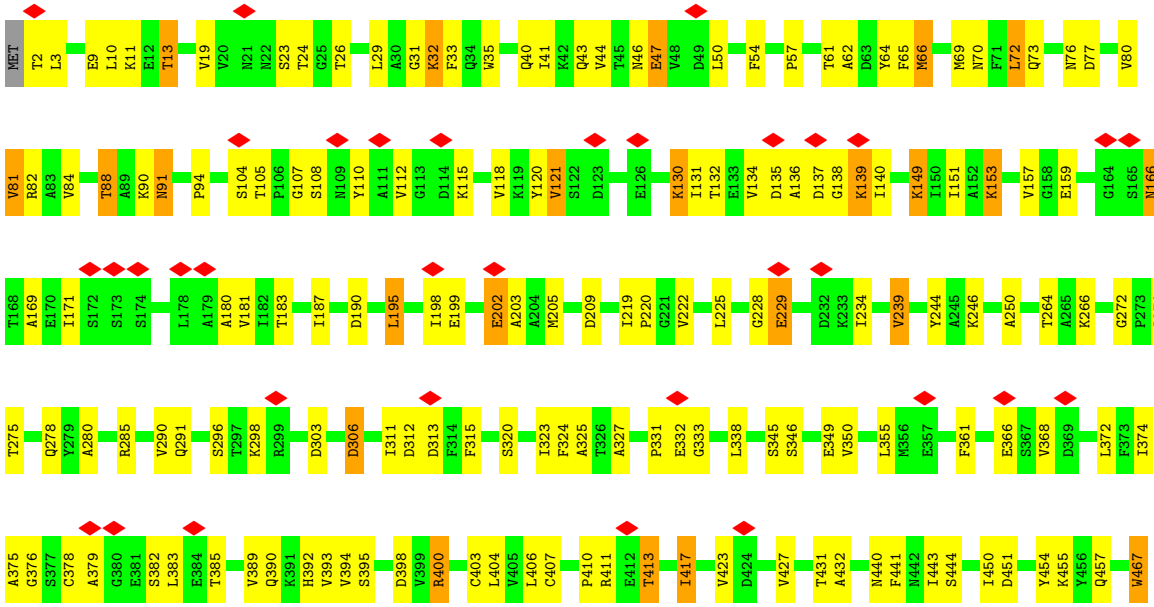
• Molecule 1: gp18, tail sheath protein

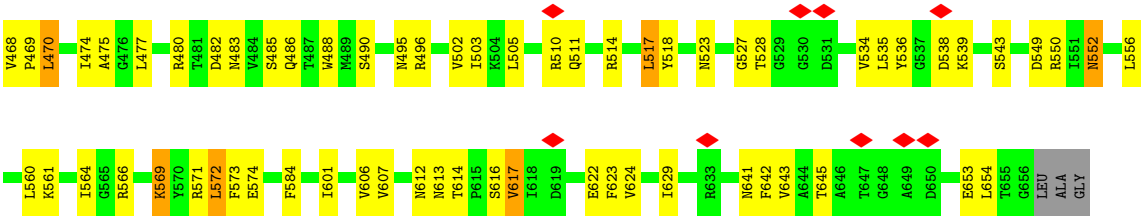
Chain M7:



• Molecule 1: gp18, tail sheath protein

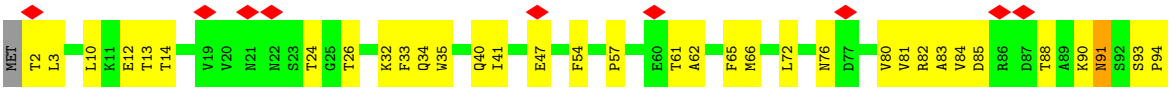
Chain M8:

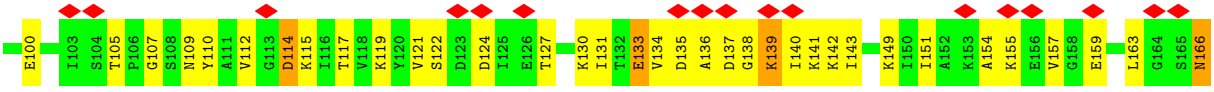


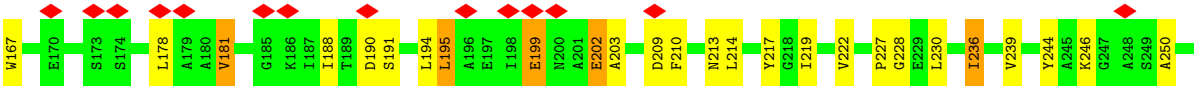


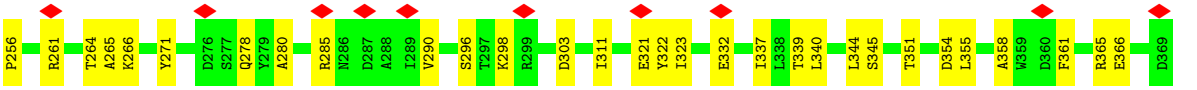
• Molecule 1: gp18, tail sheath protein

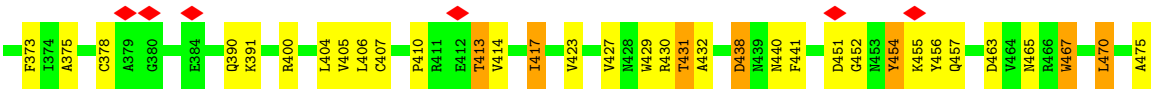
Chain M9:

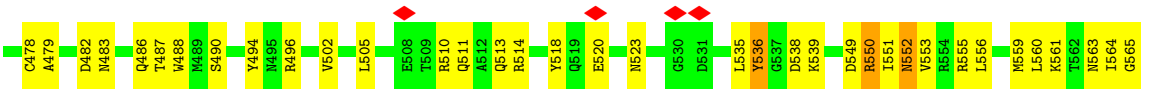


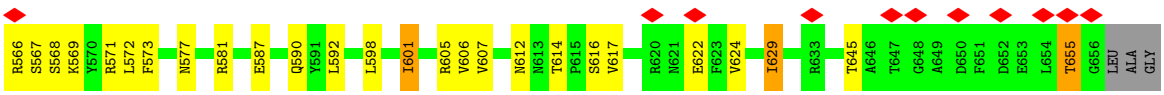






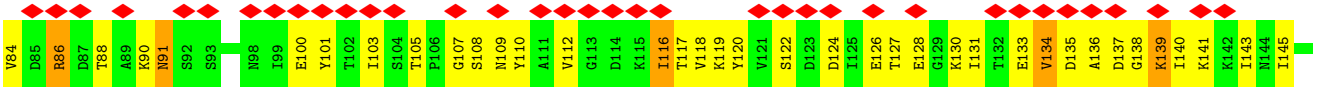


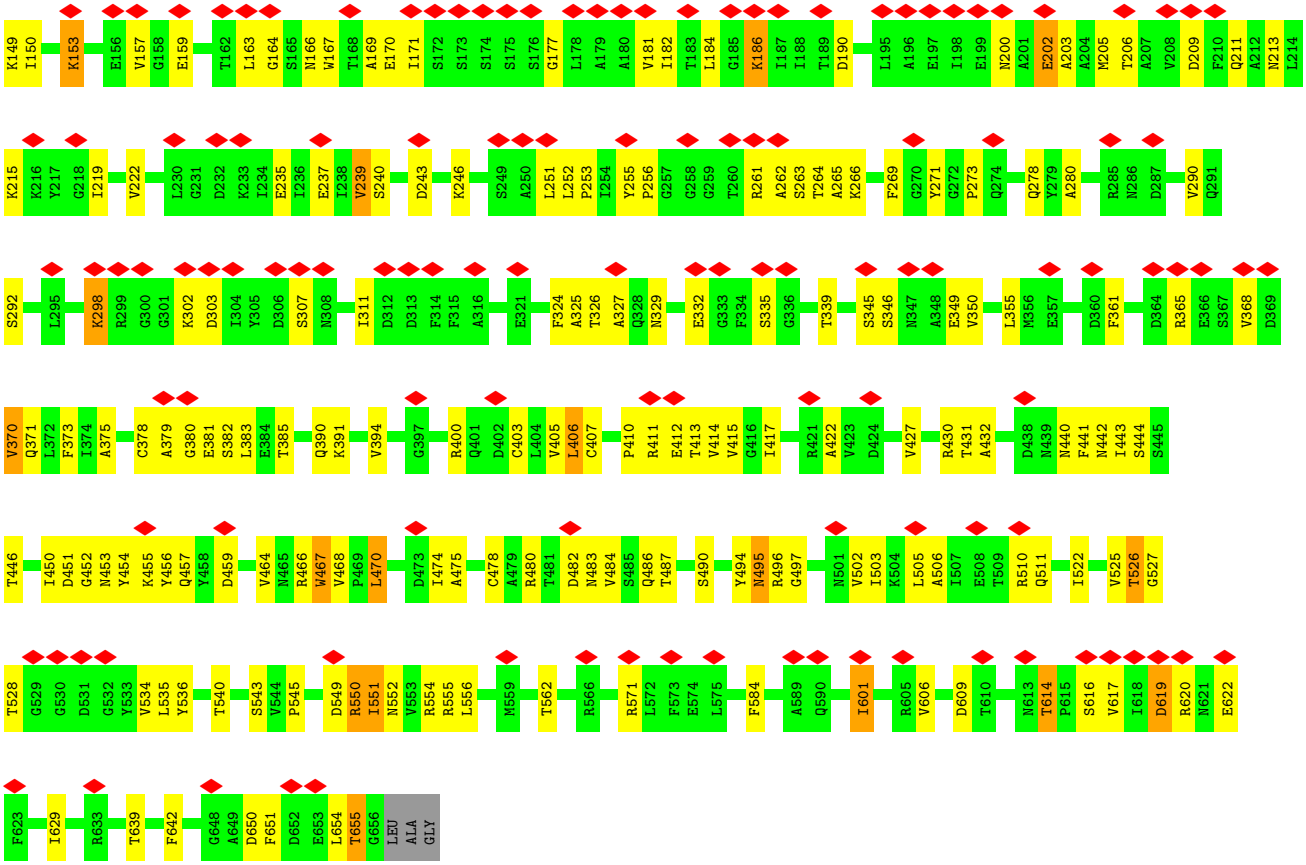




• Molecule 1: gp18, tail sheath protein

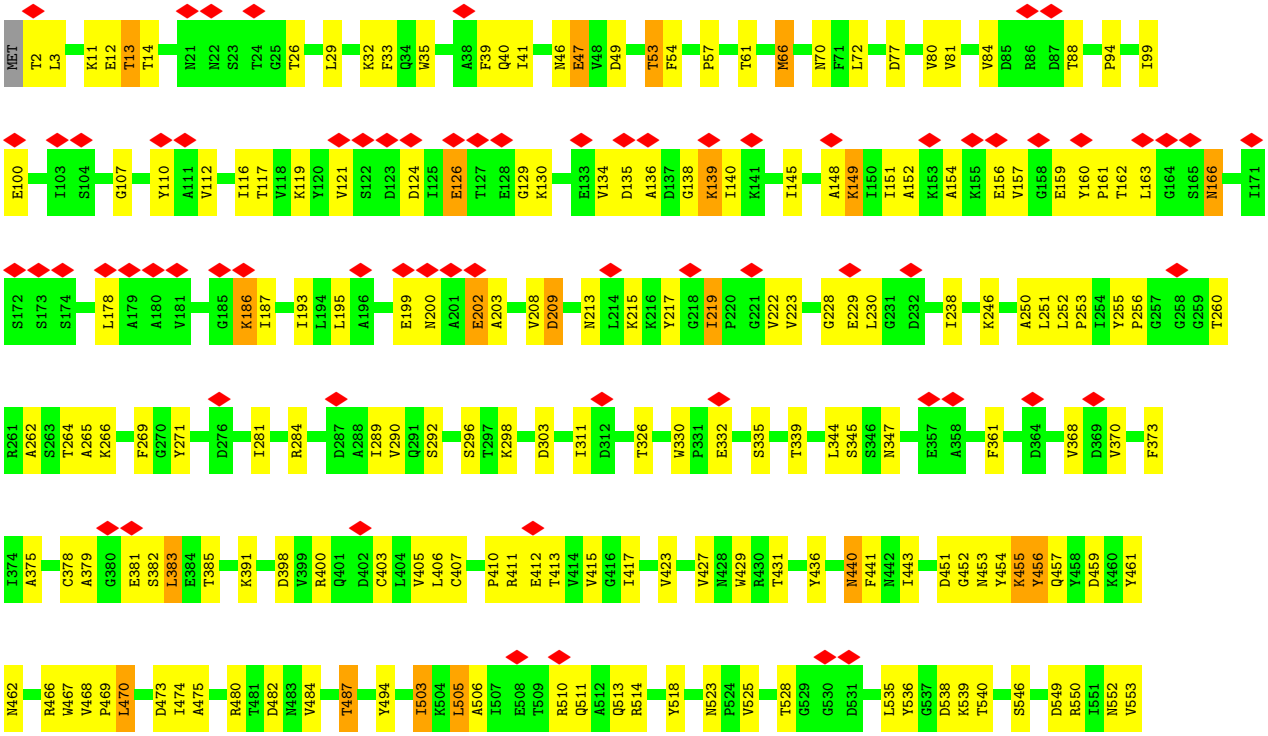
Chain MQ:

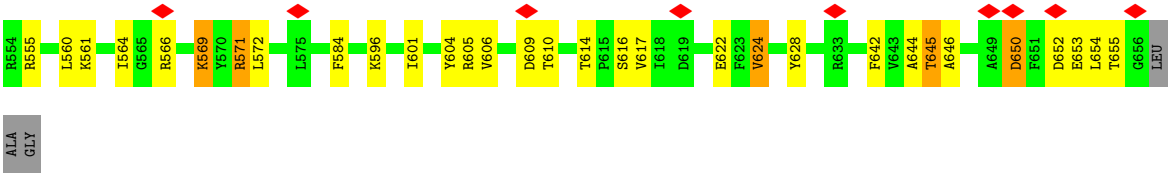




• Molecule 1: gp18, tail sheath protein

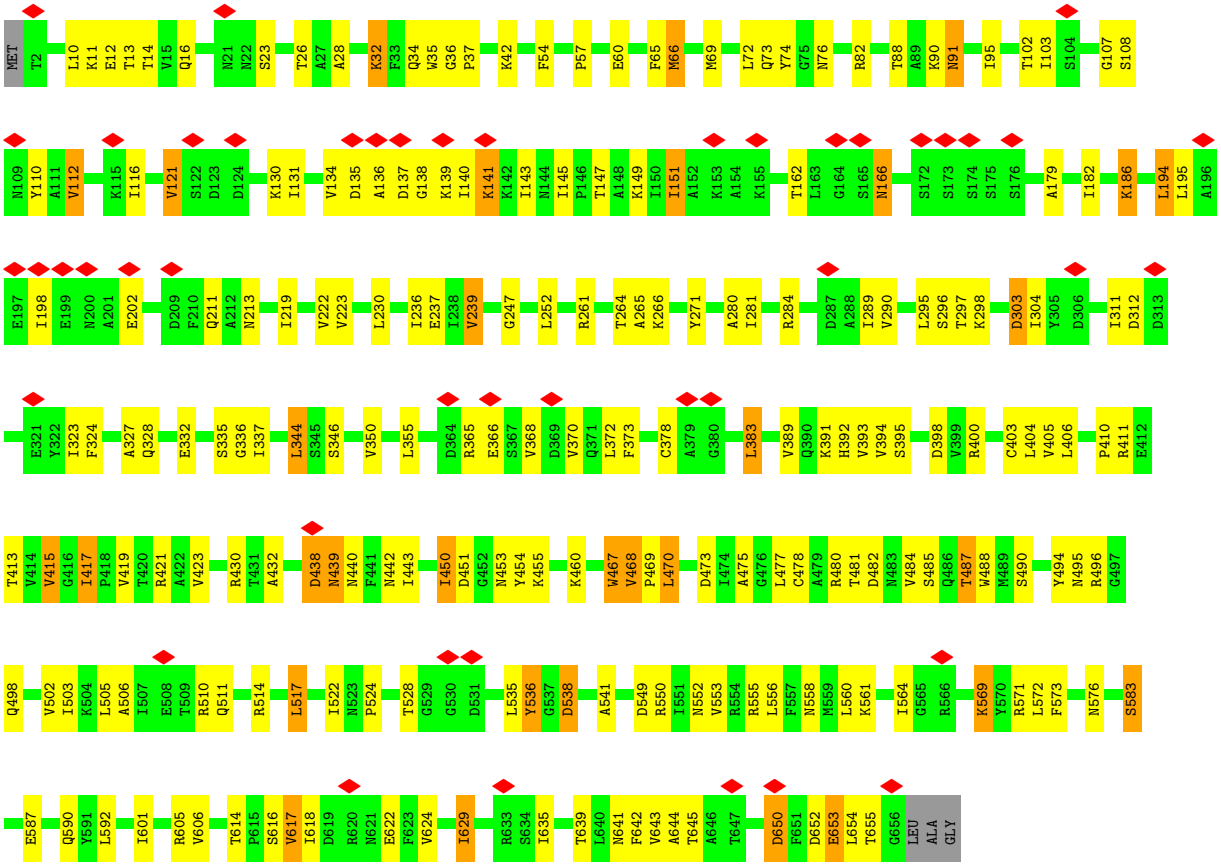
Chain MR:





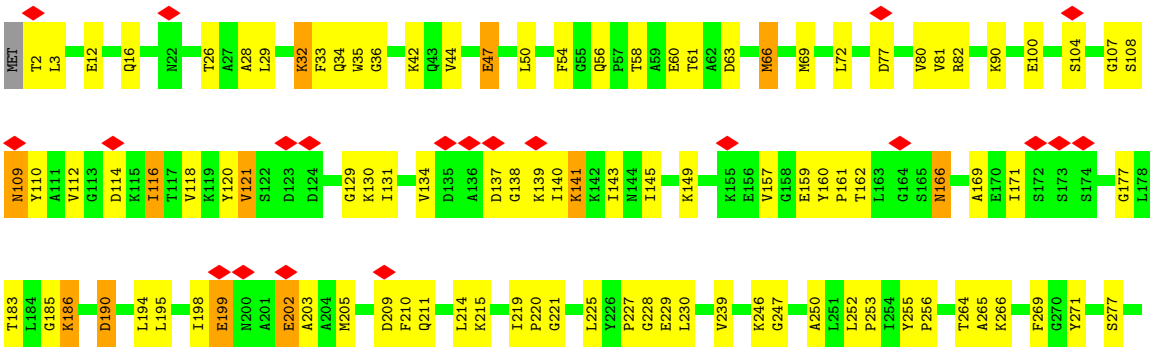
• Molecule 1: gp18, tail sheath protein

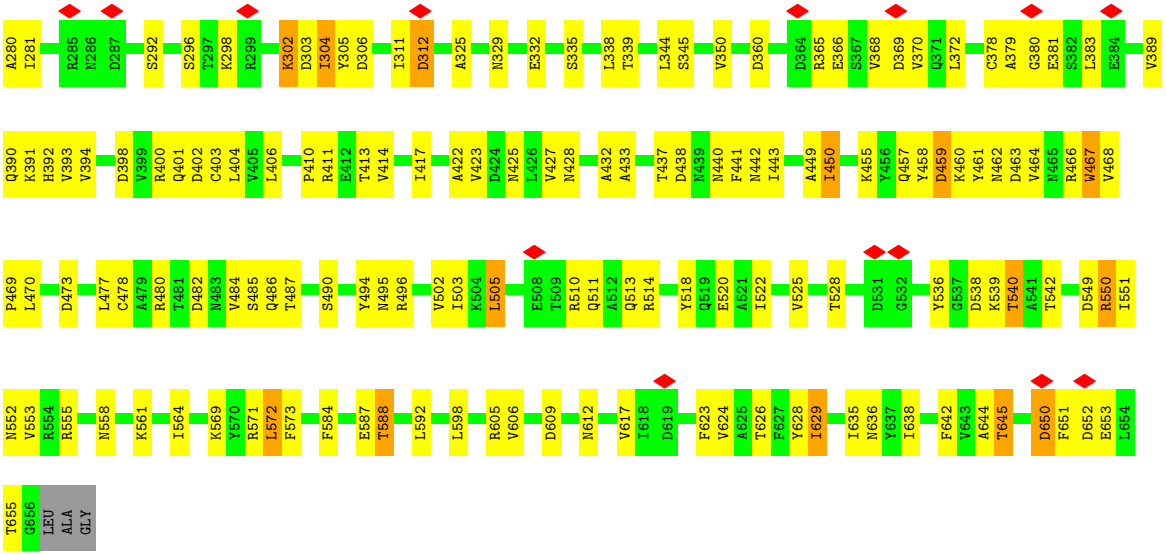
Chain MS:



• Molecule 1: gp18, tail sheath protein

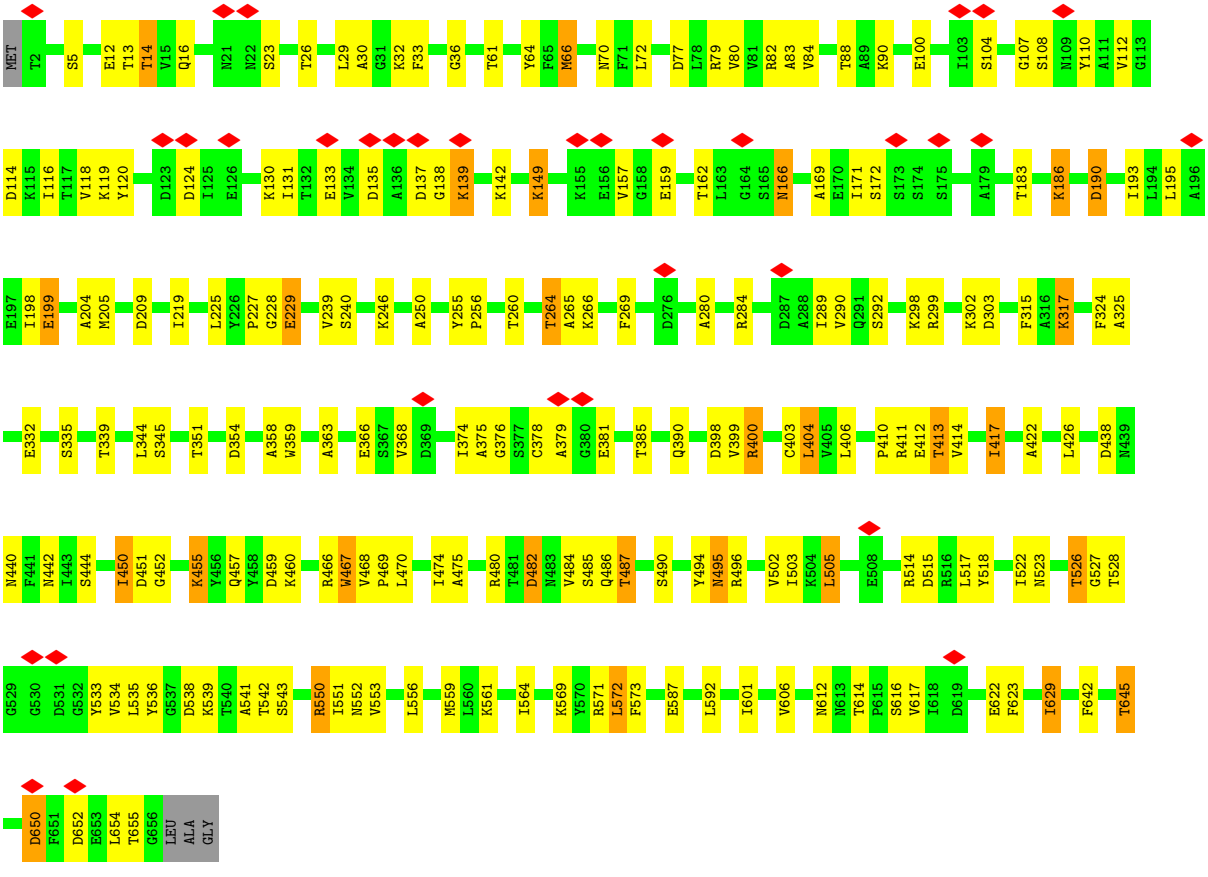
Chain MU:





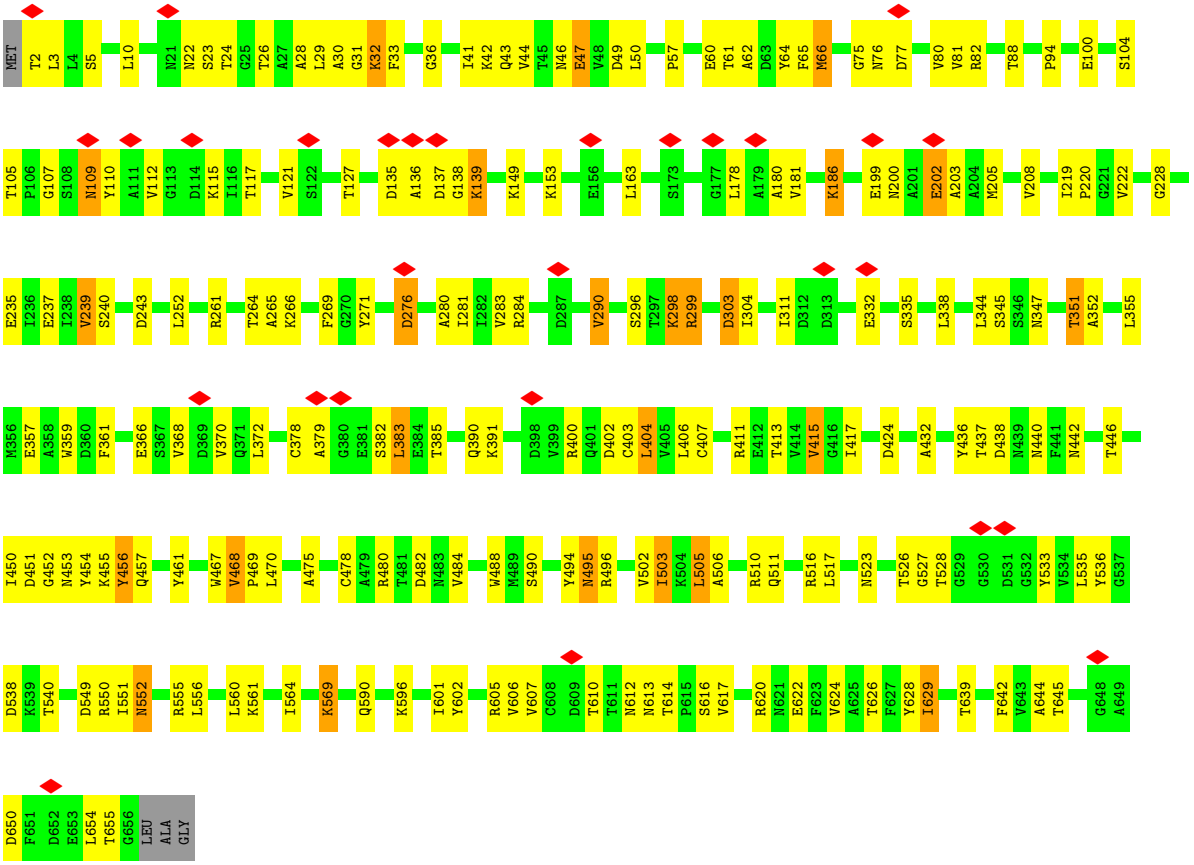
• Molecule 1: gp18, tail sheath protein

Chain MV:



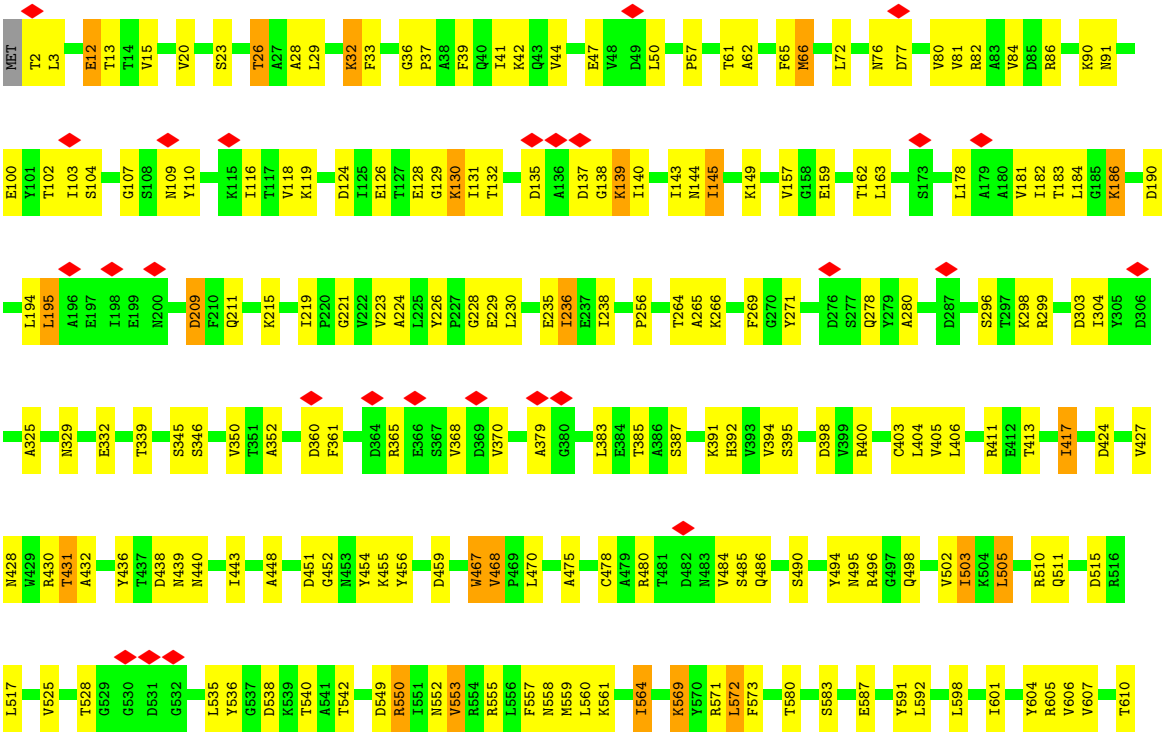
• Molecule 1: gp18, tail sheath protein

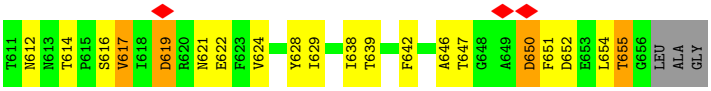
Chain MW:



• Molecule 1: gp18, tail sheath protein

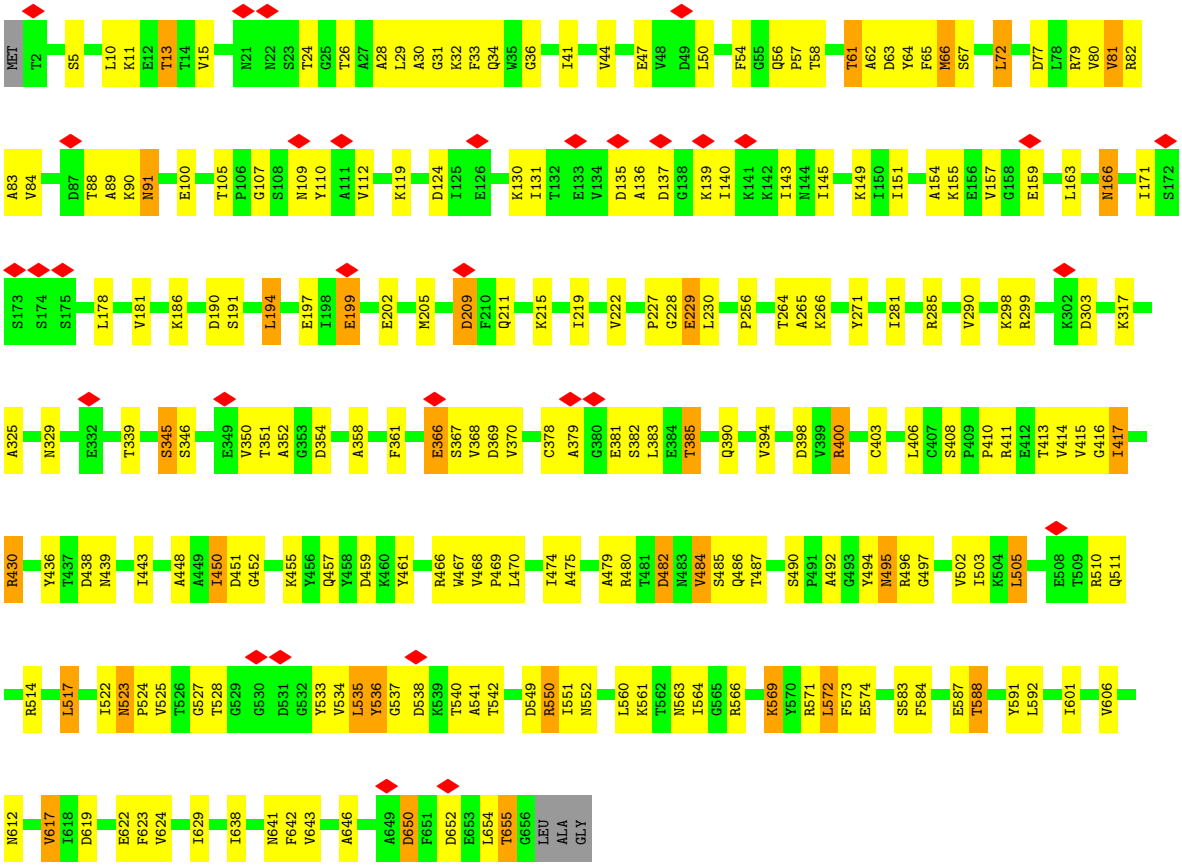
Chain MX:





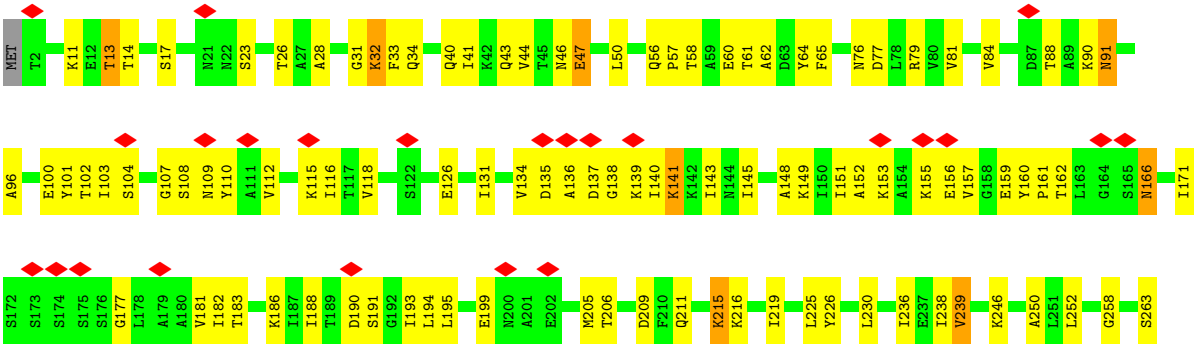
• Molecule 1: gp18, tail sheath protein

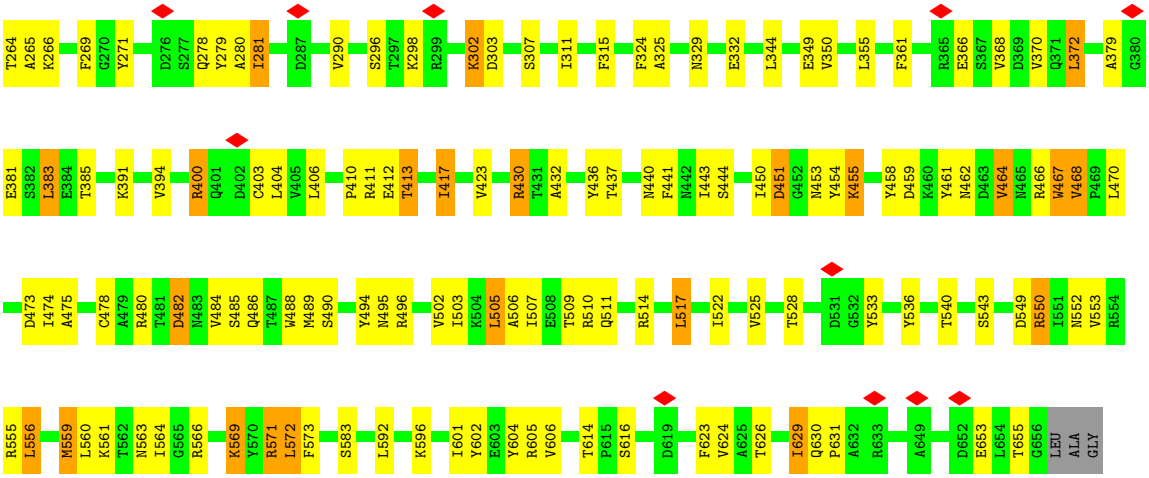
Chain MY:



• Molecule 1: gp18, tail sheath protein

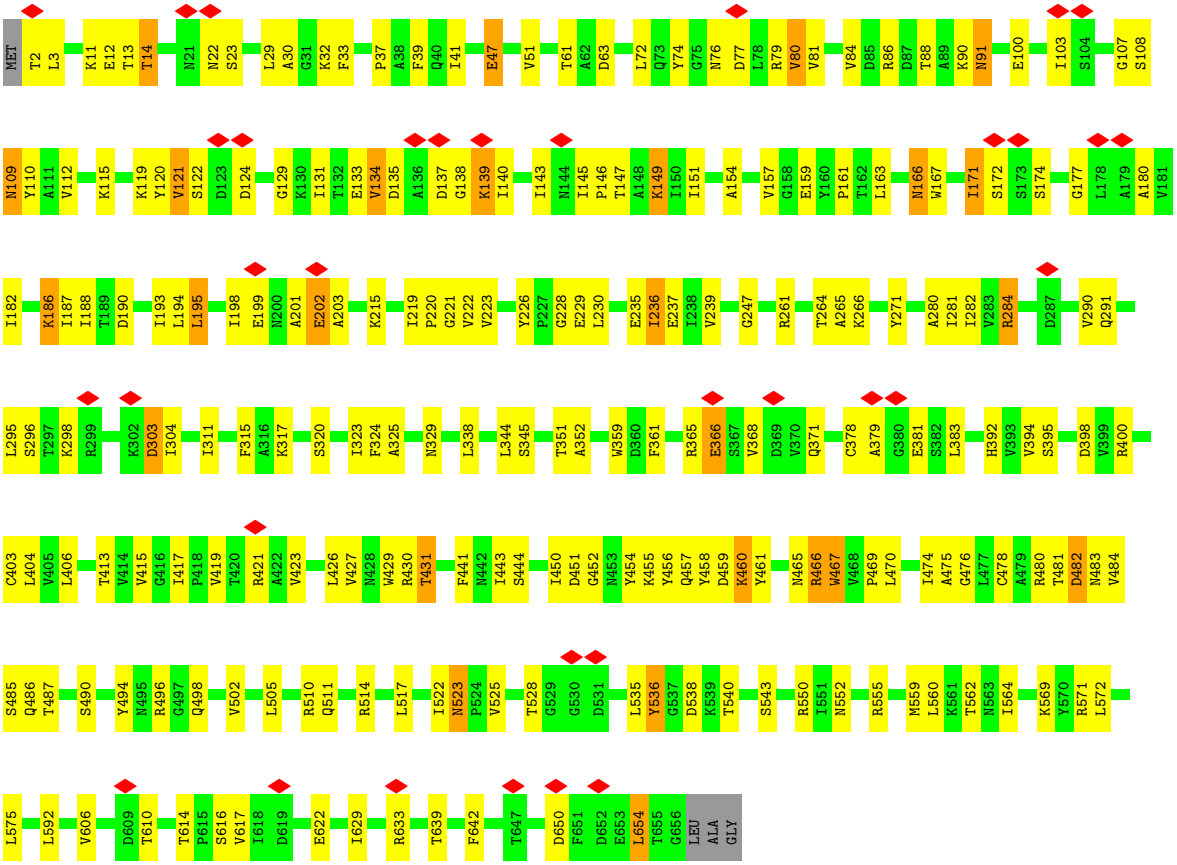
Chain MZ:





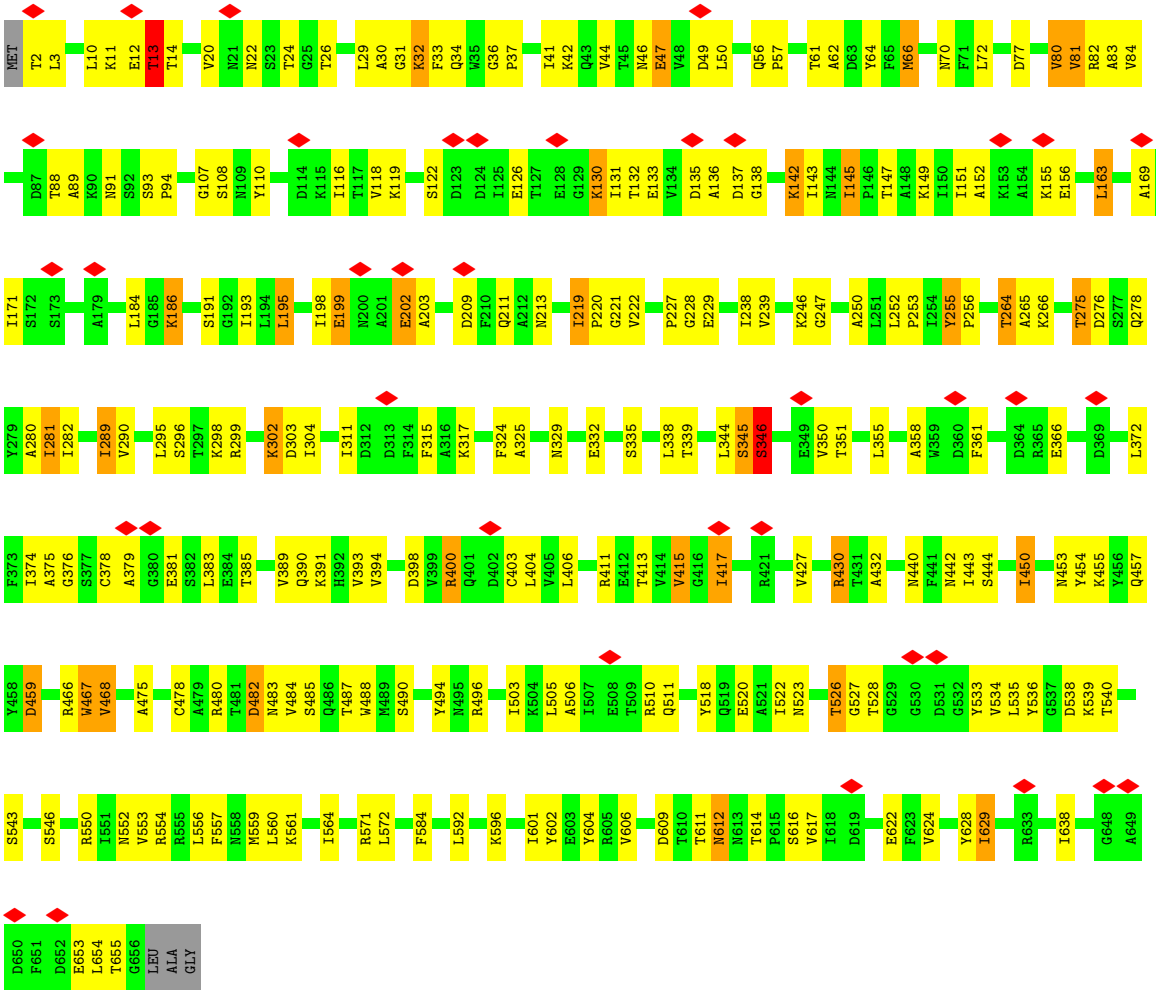
• Molecule 1: gp18, tail sheath protein

Chain Ma:



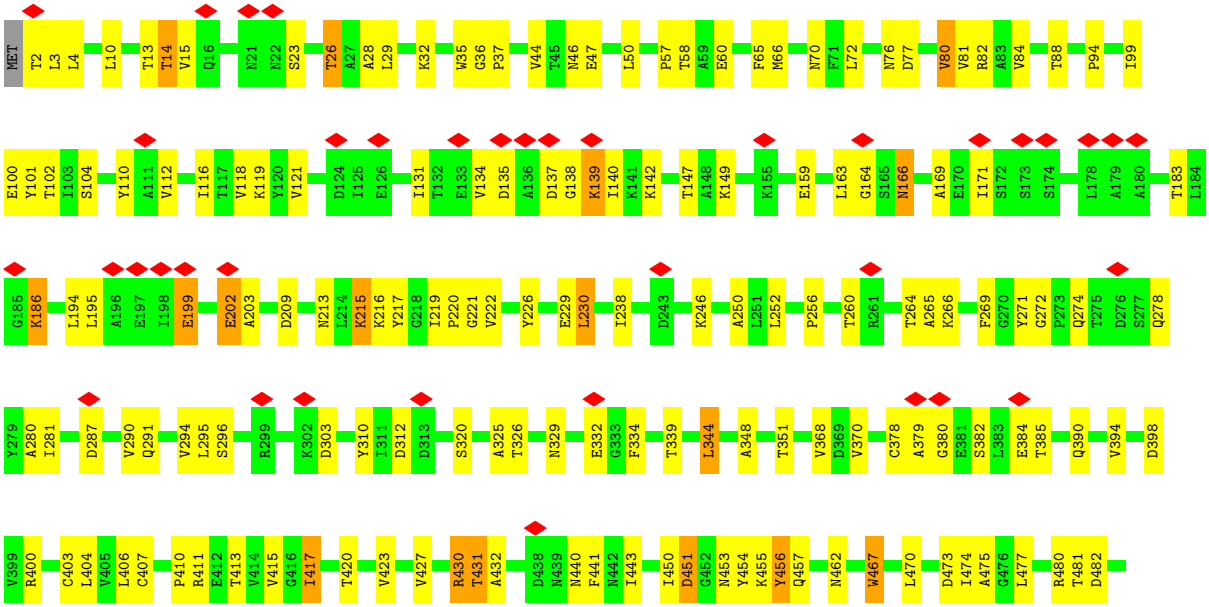
• Molecule 1: gp18, tail sheath protein

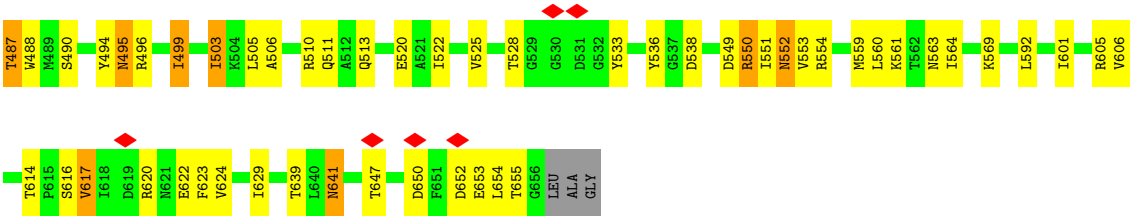
Chain Mb:



• Molecule 1: gp18, tail sheath protein

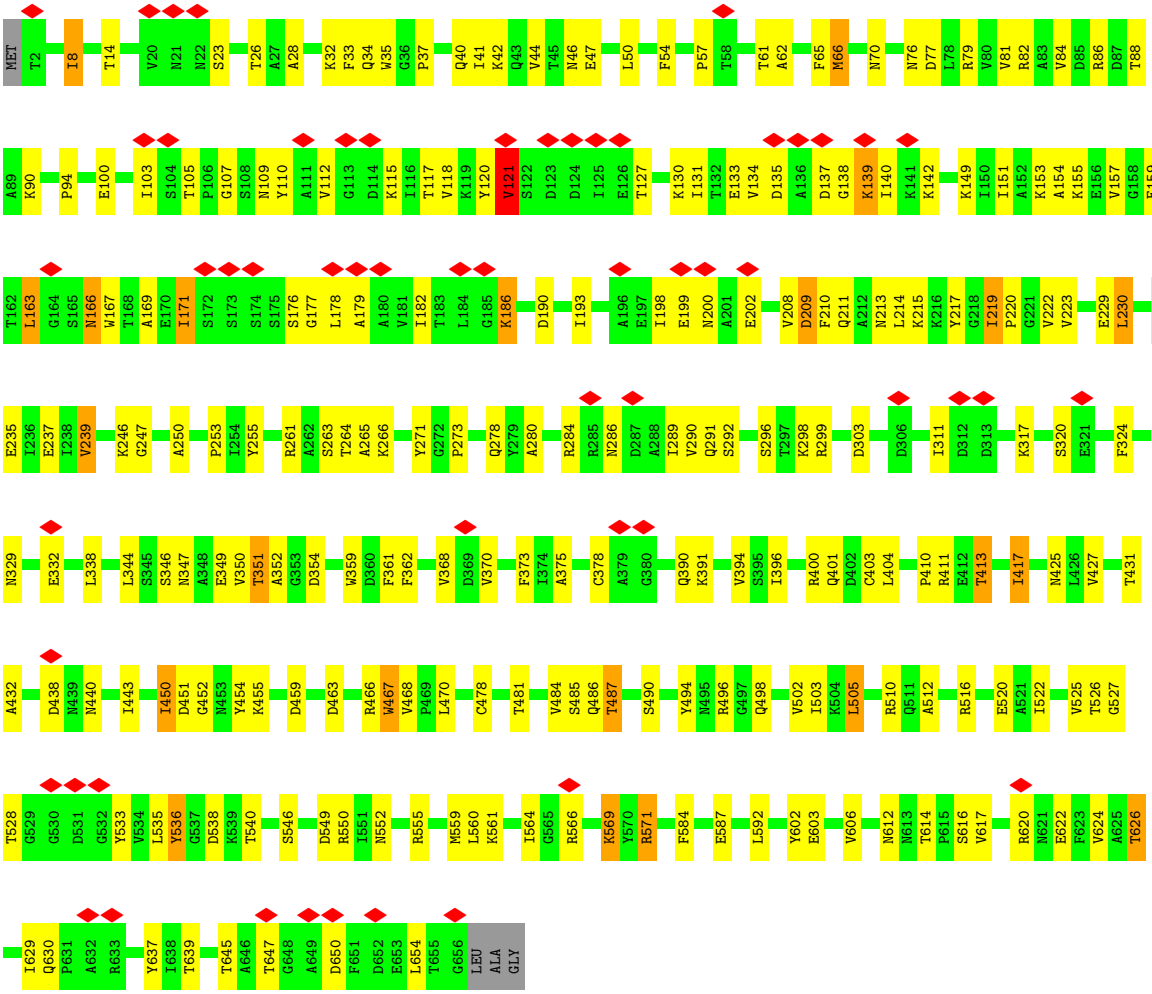
Chain Mc:





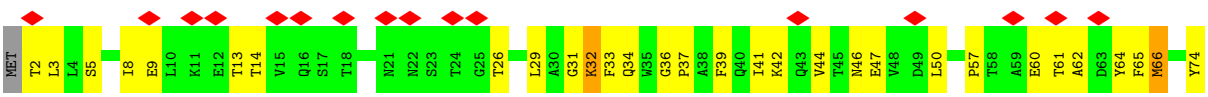
• Molecule 1: gp18, tail sheath protein

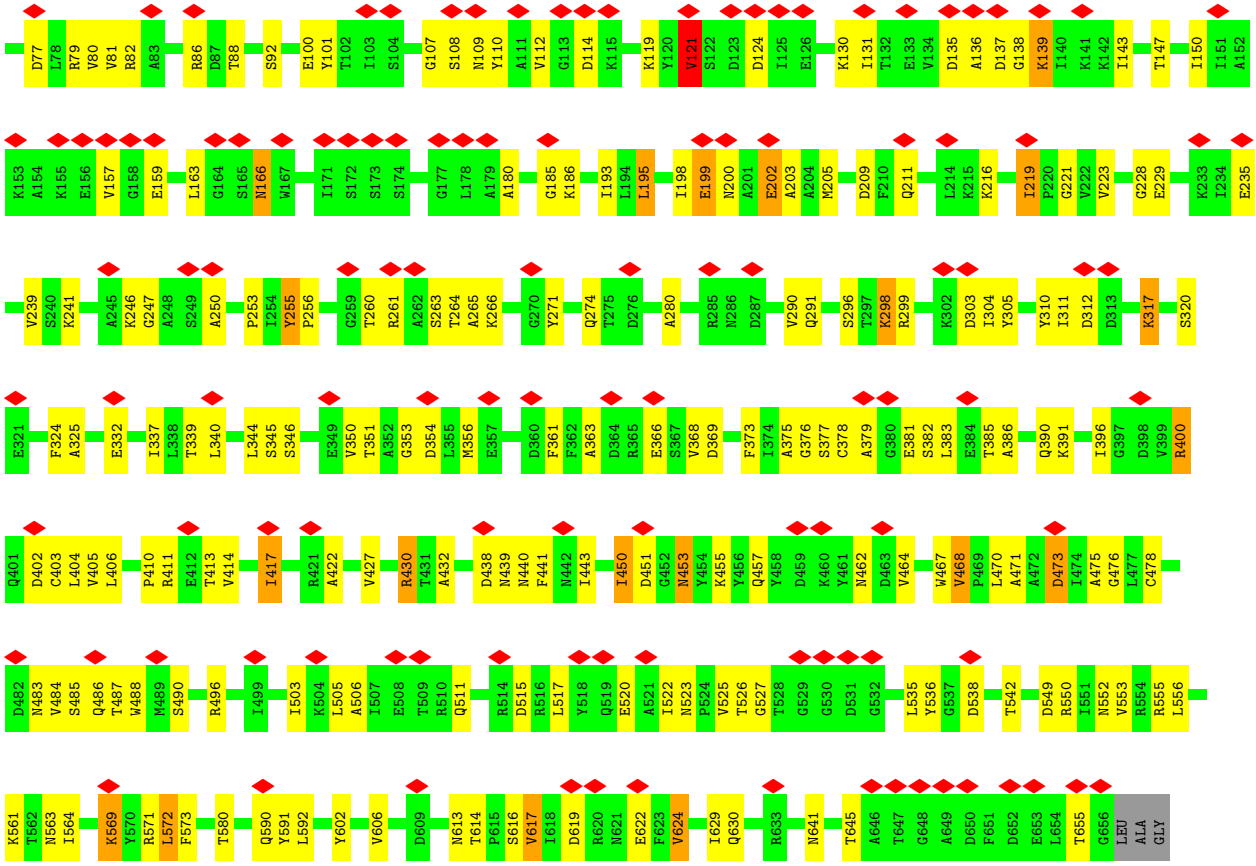
Chain Md:



• Molecule 1: gp18, tail sheath protein

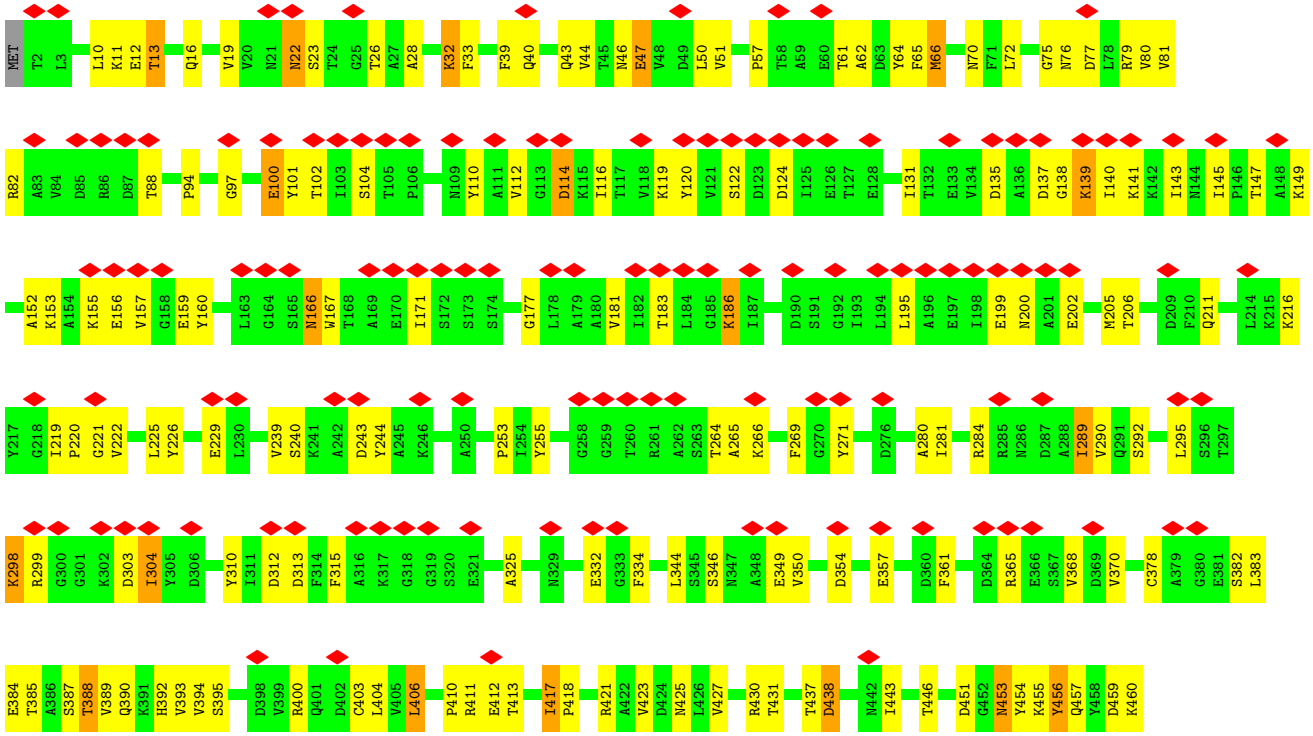
Chain Me:

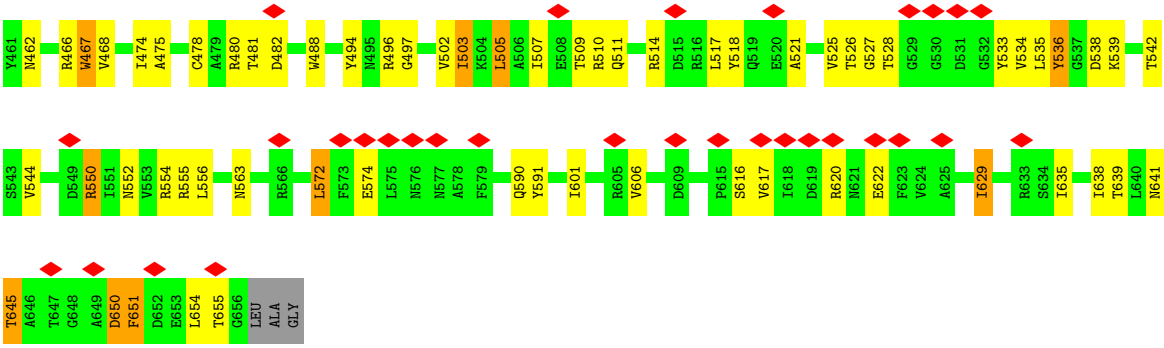




• Molecule 1: gp18, tail sheath protein

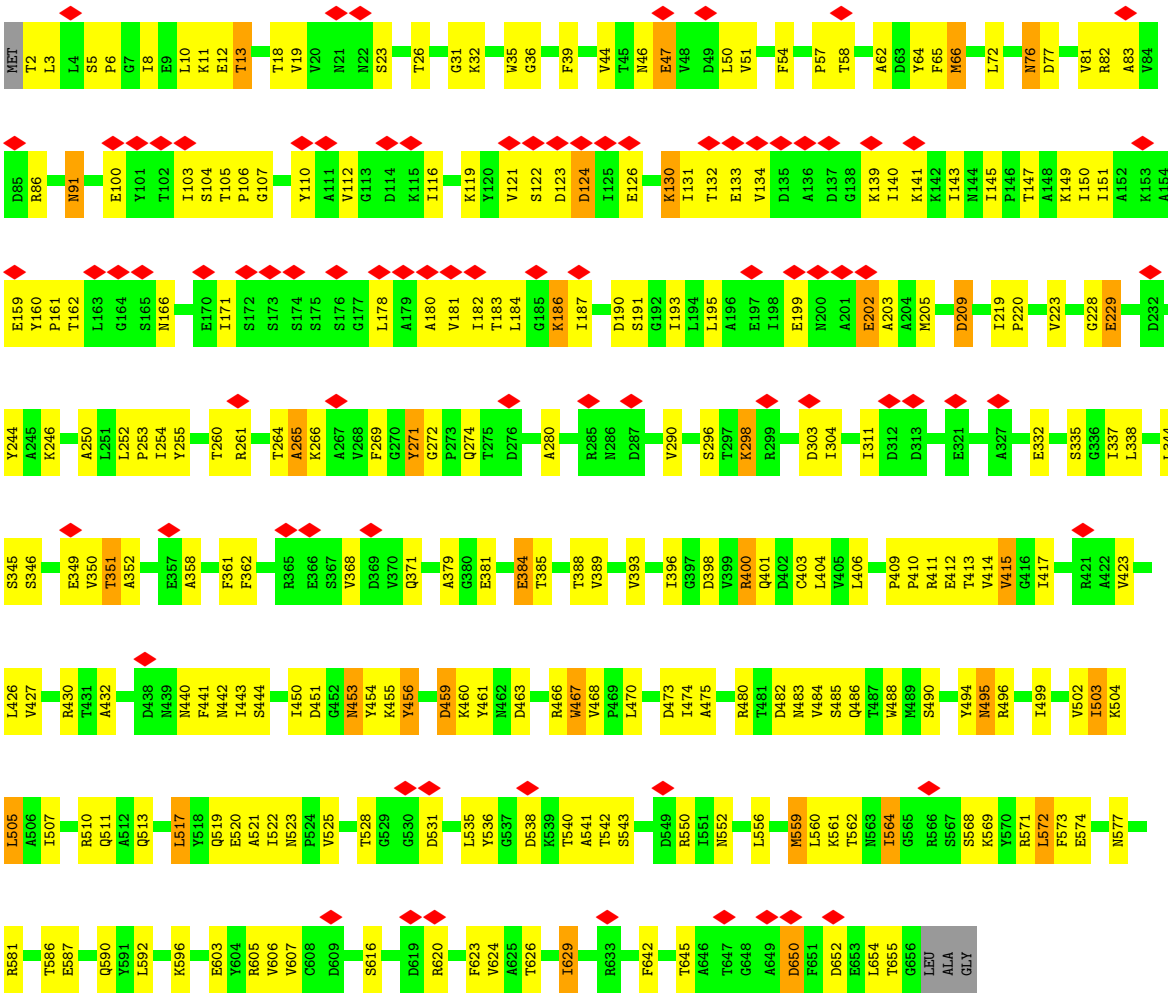
Chain Mv:





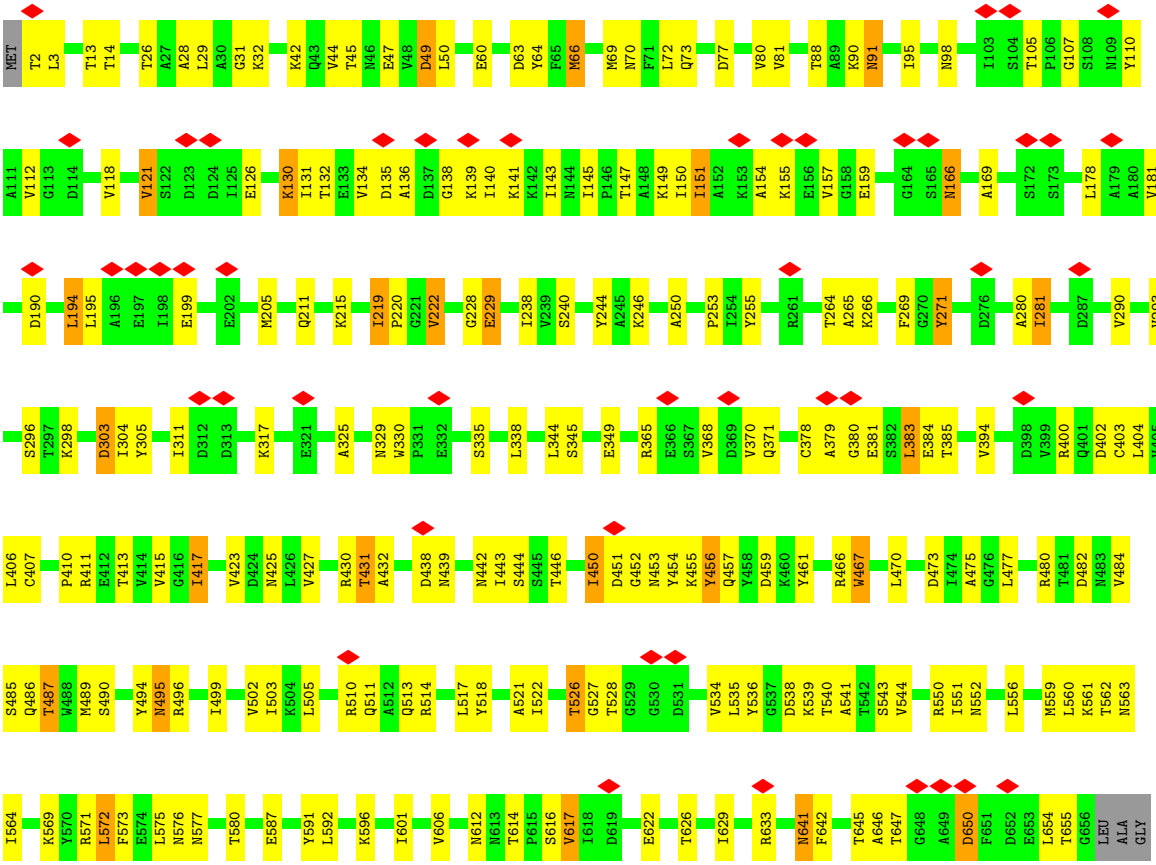
• Molecule 1: gp18, tail sheath protein

Chain Mw:



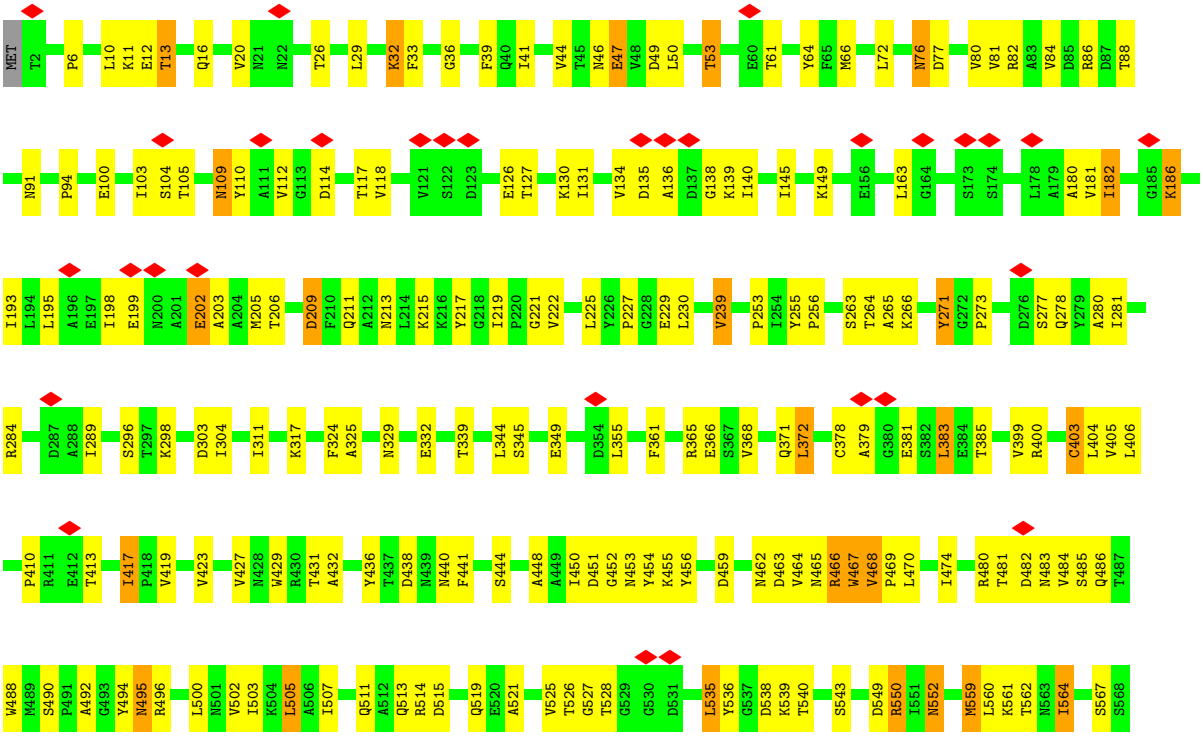
• Molecule 1: gp18, tail sheath protein

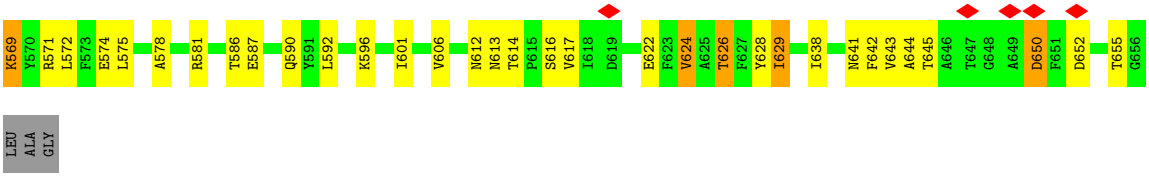
Chain Mx:



• Molecule 1: gp18, tail sheath protein

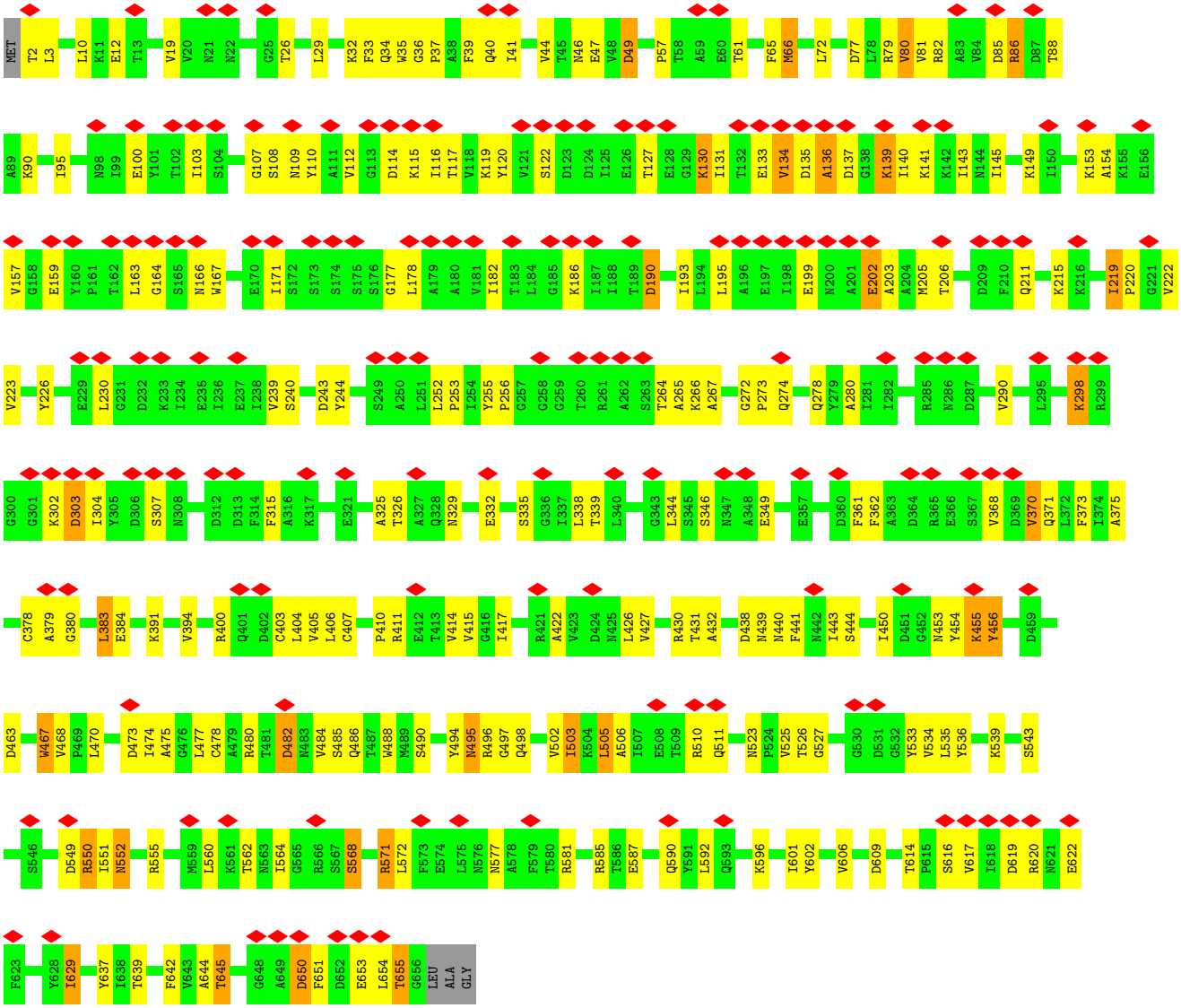
Chain Mz:





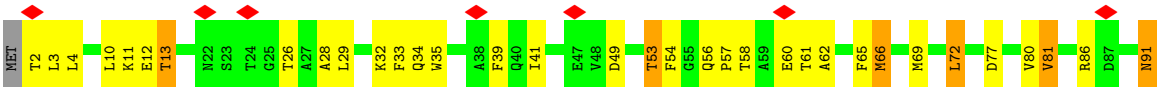
• Molecule 1: gp18, tail sheath protein

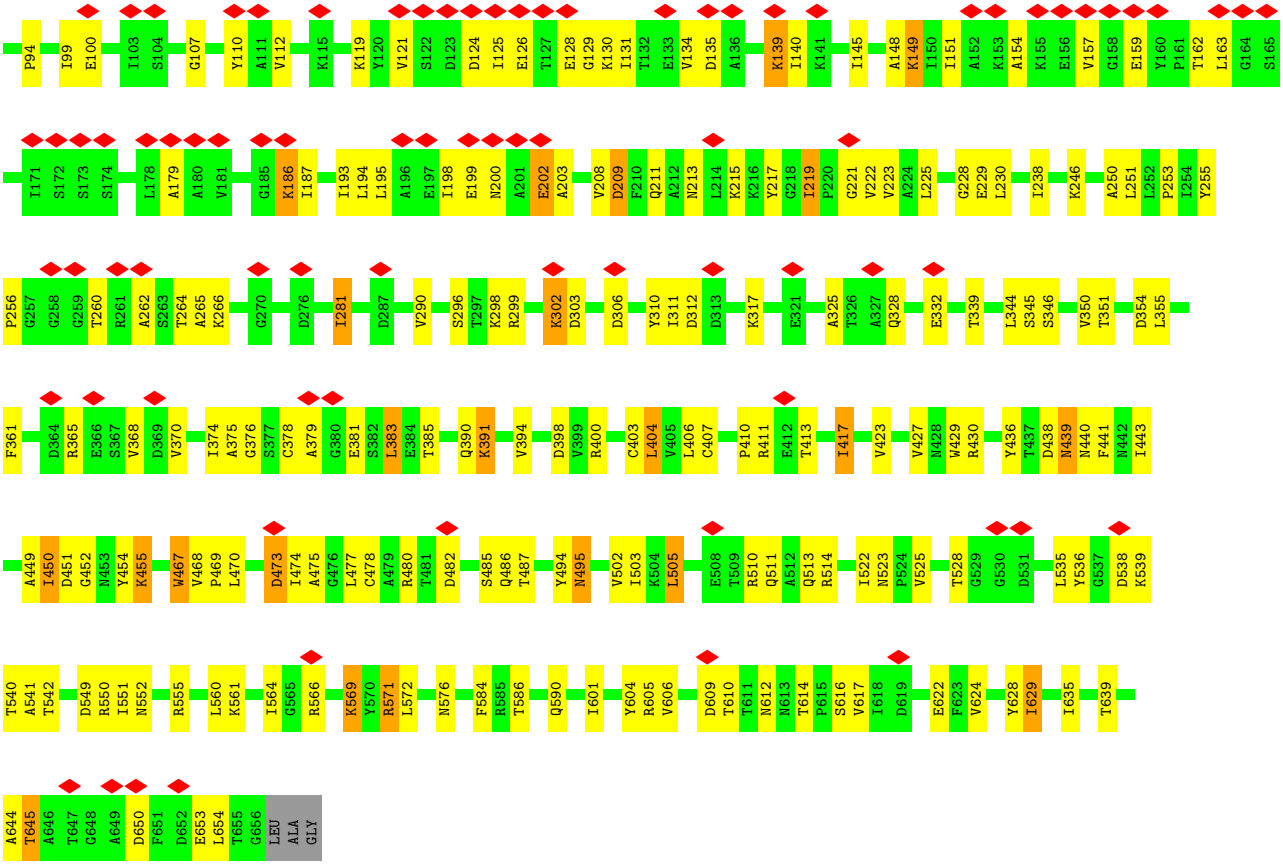
Chain NV:



• Molecule 1: gp18, tail sheath protein

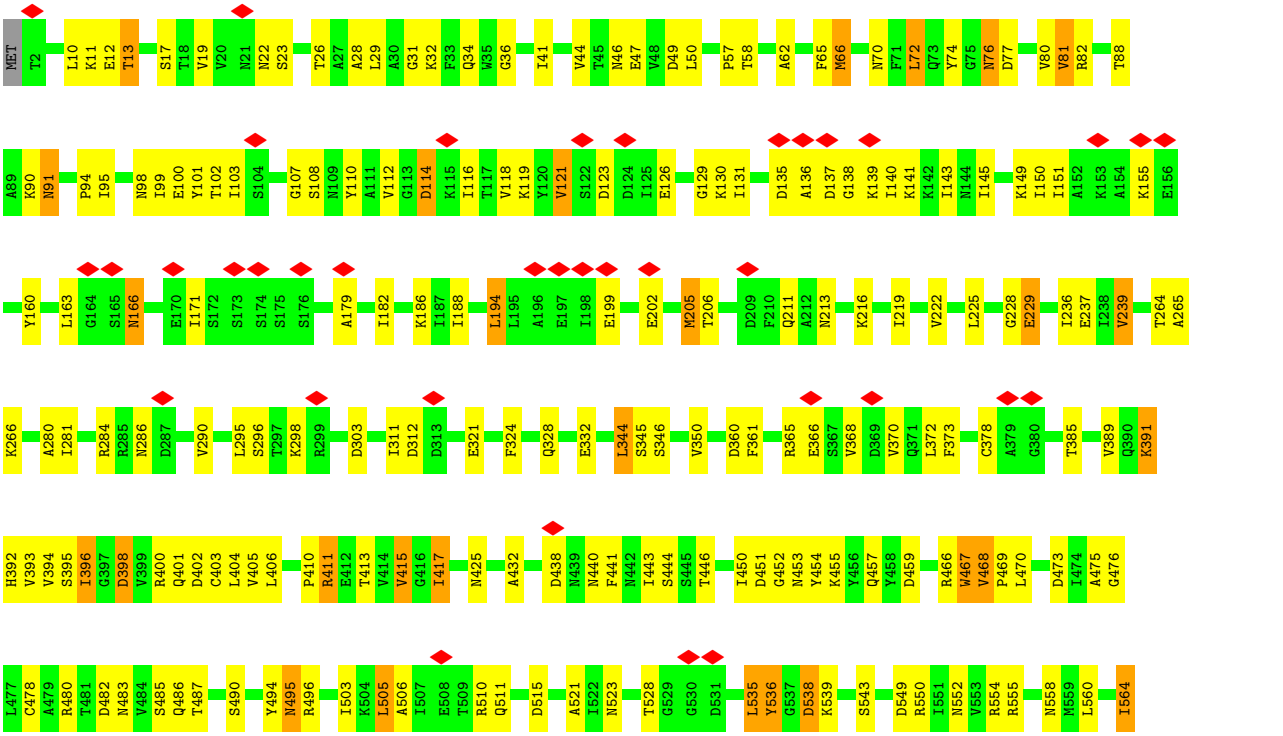
Chain NW:

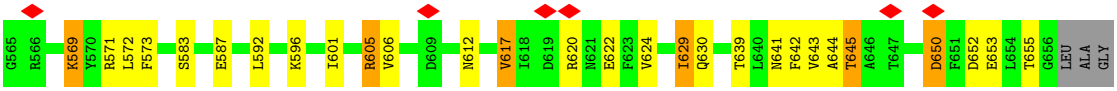




• Molecule 1: gp18, tail sheath protein

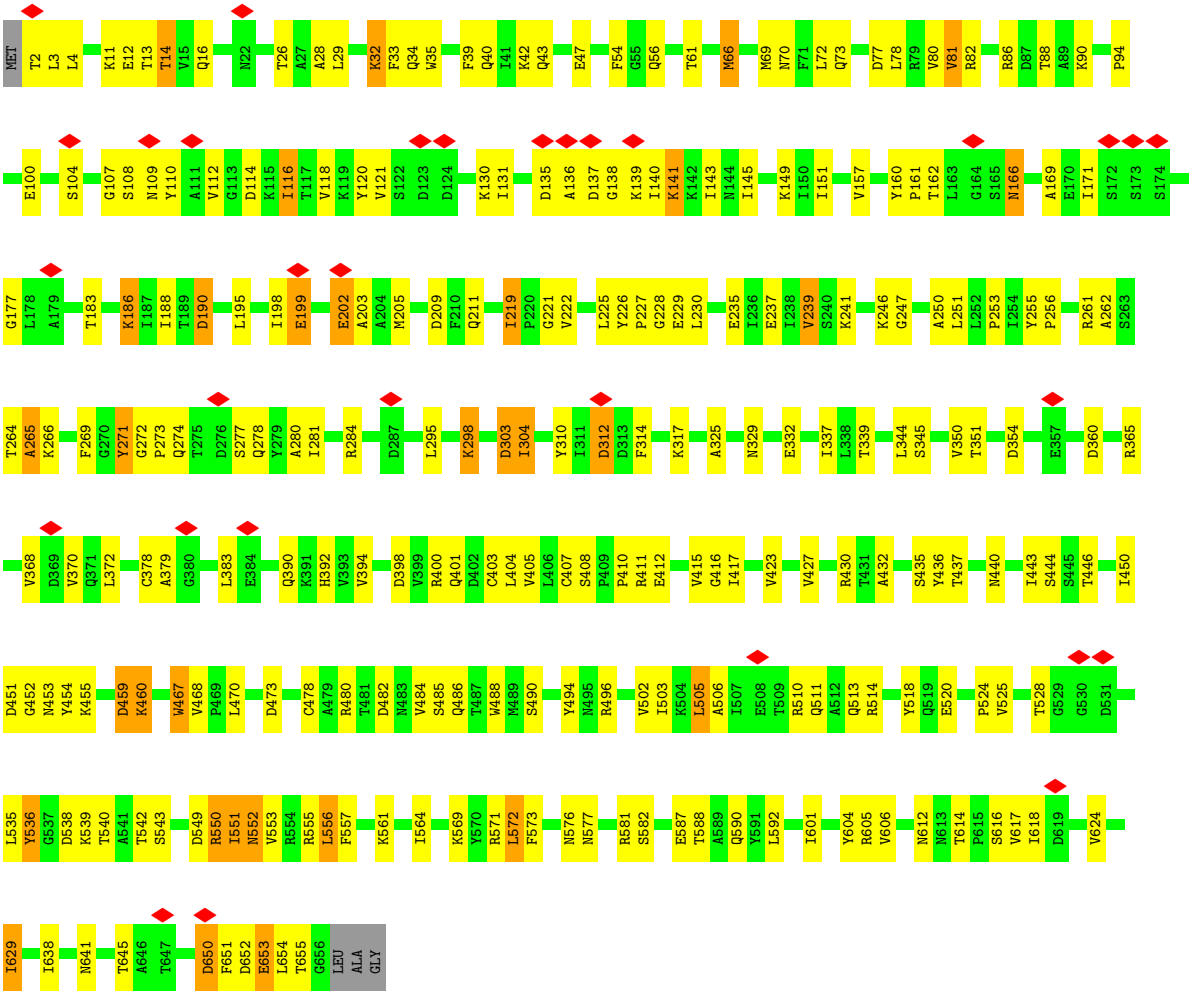
Chain NX:





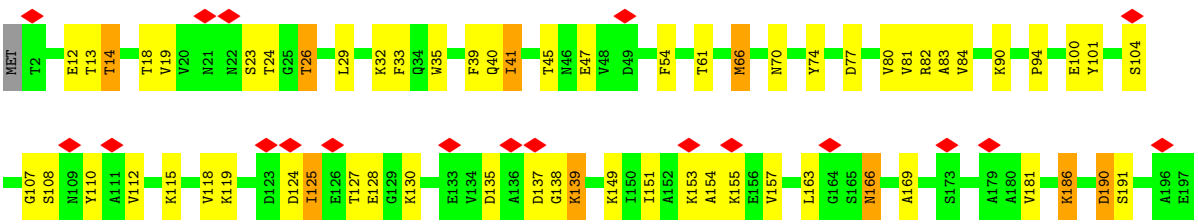
• Molecule 1: gp18, tail sheath protein

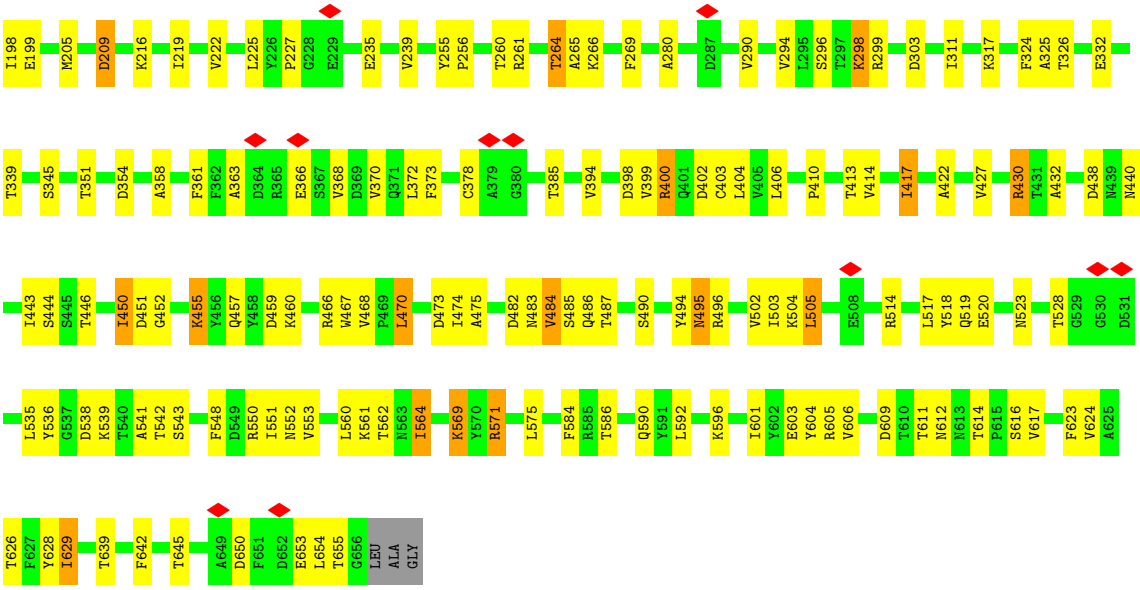
Chain NZ:



• Molecule 1: gp18, tail sheath protein

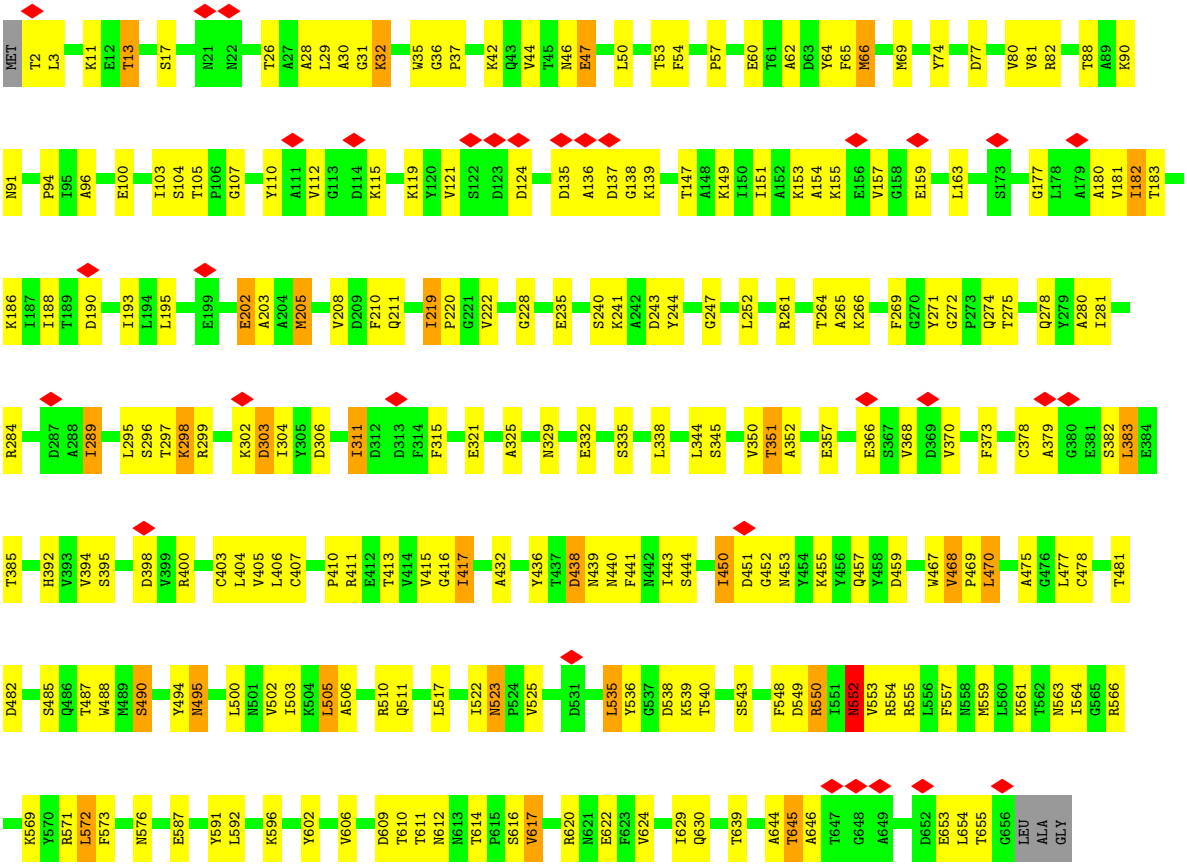
Chain Na:





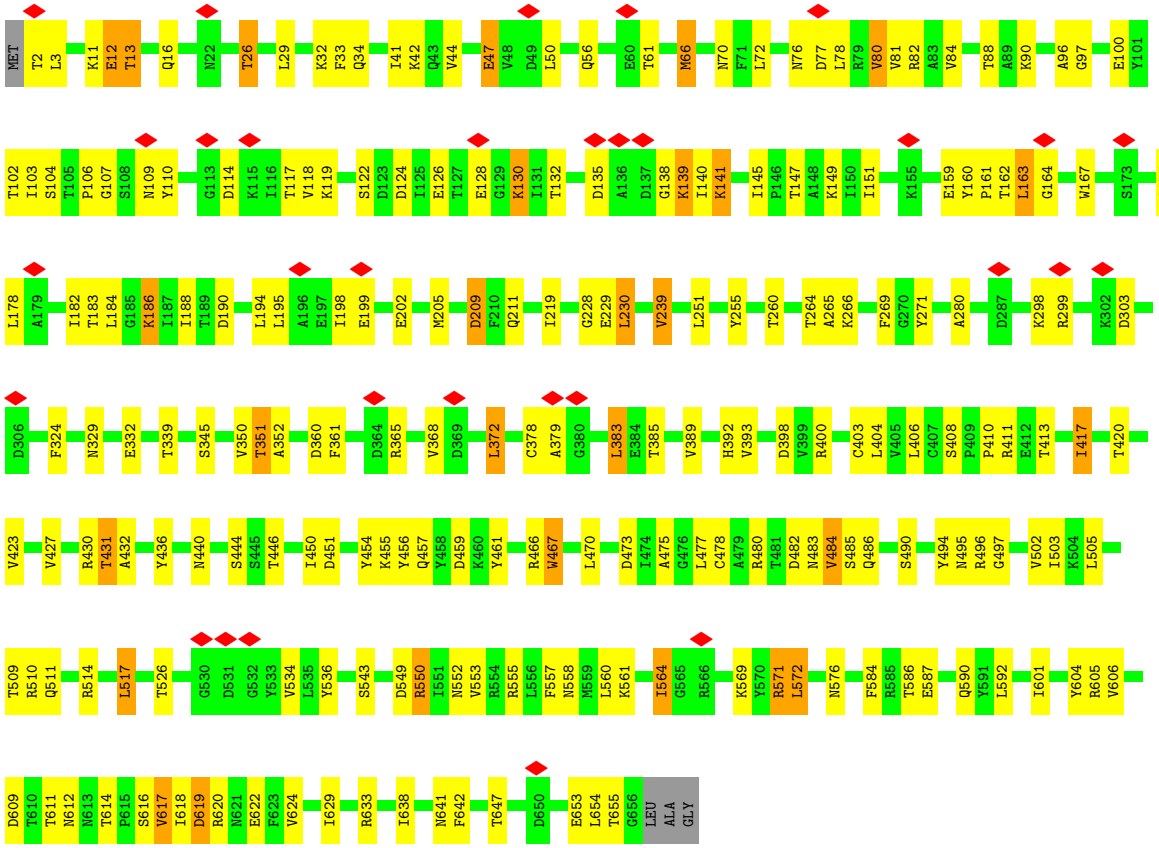
• Molecule 1: gp18, tail sheath protein

Chain Nb:



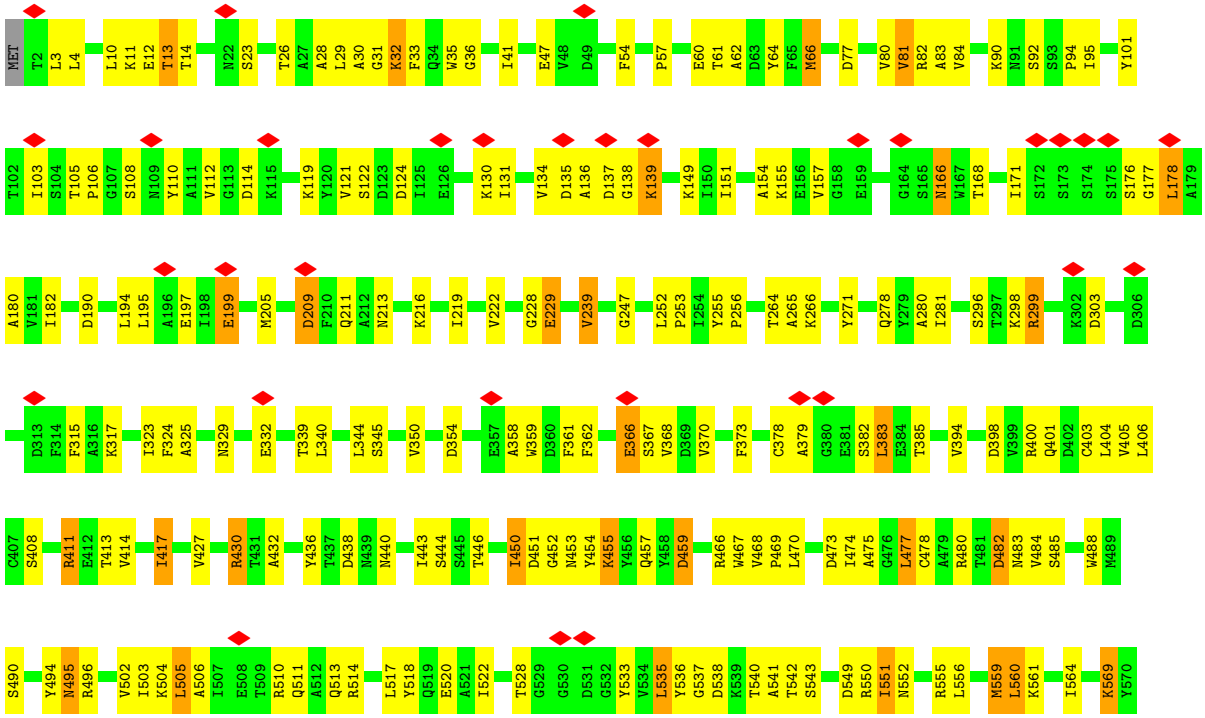
• Molecule 1: gp18, tail sheath protein

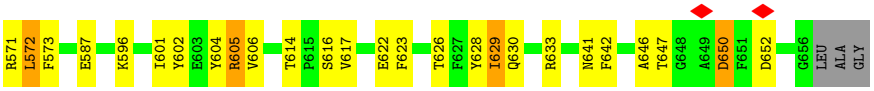
Chain Nc:



• Molecule 1: gp18, tail sheath protein

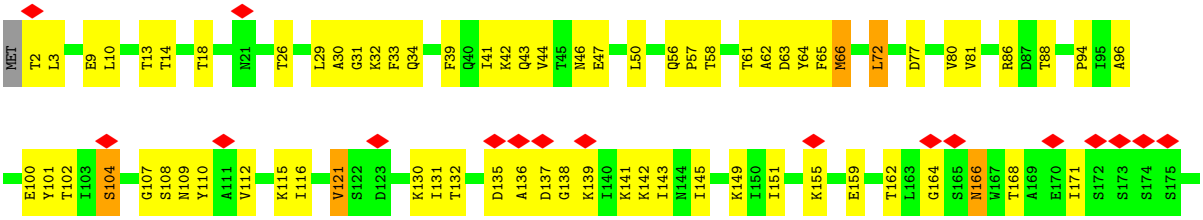
Chain Nd:

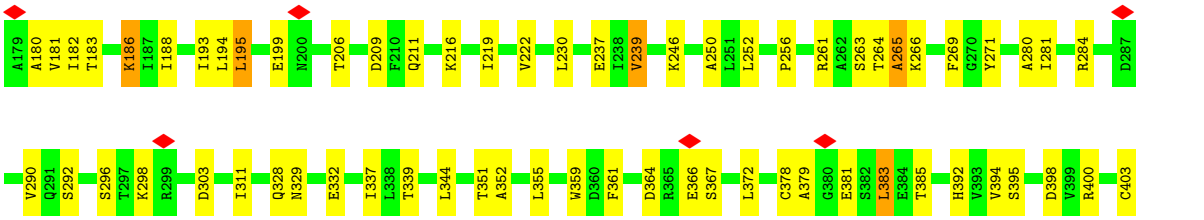


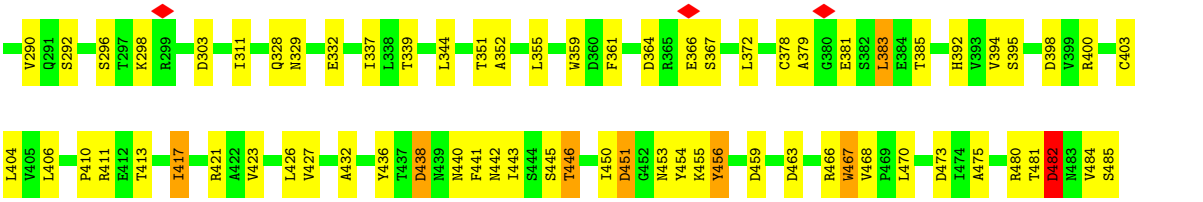


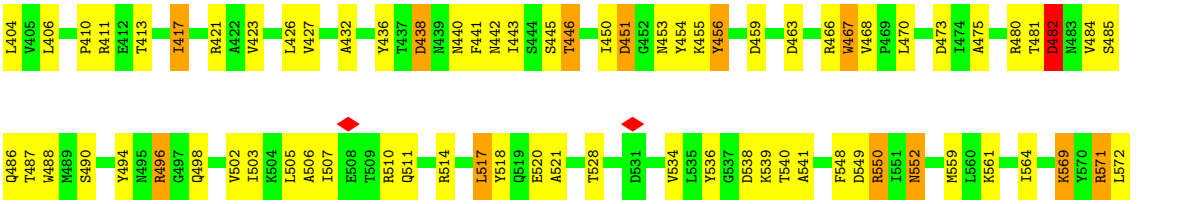
• Molecule 1: gp18, tail sheath protein

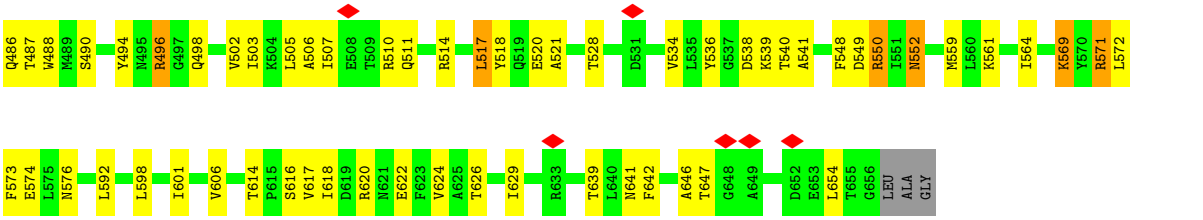
Chain Ne:

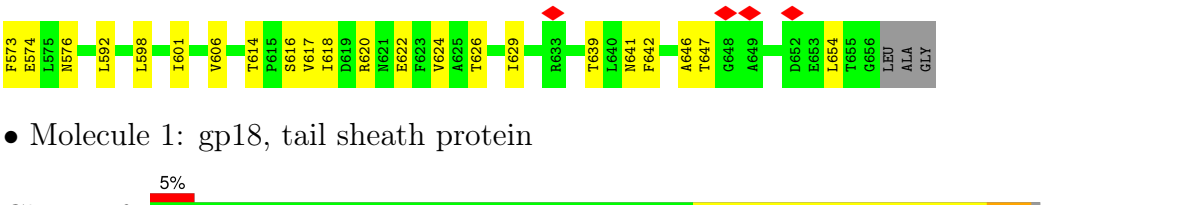






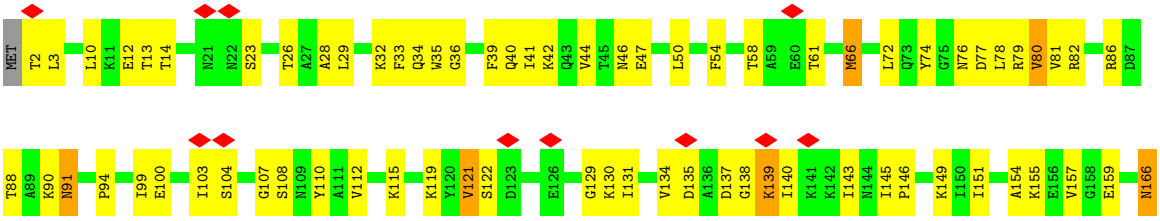


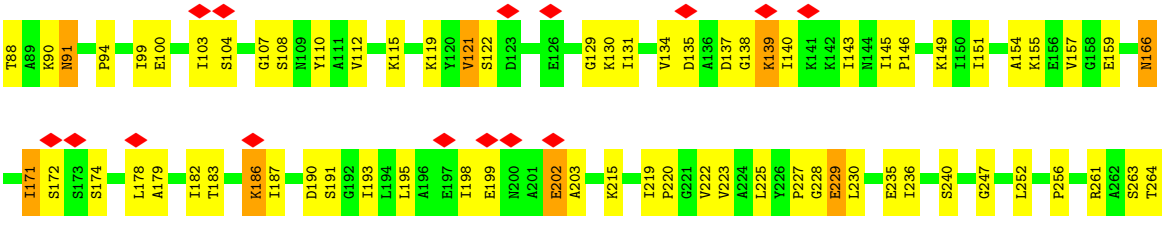


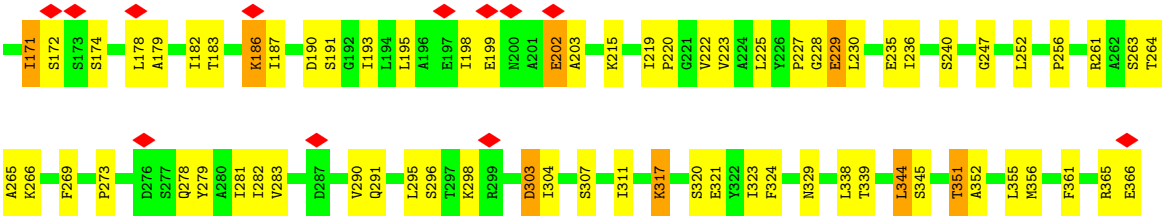


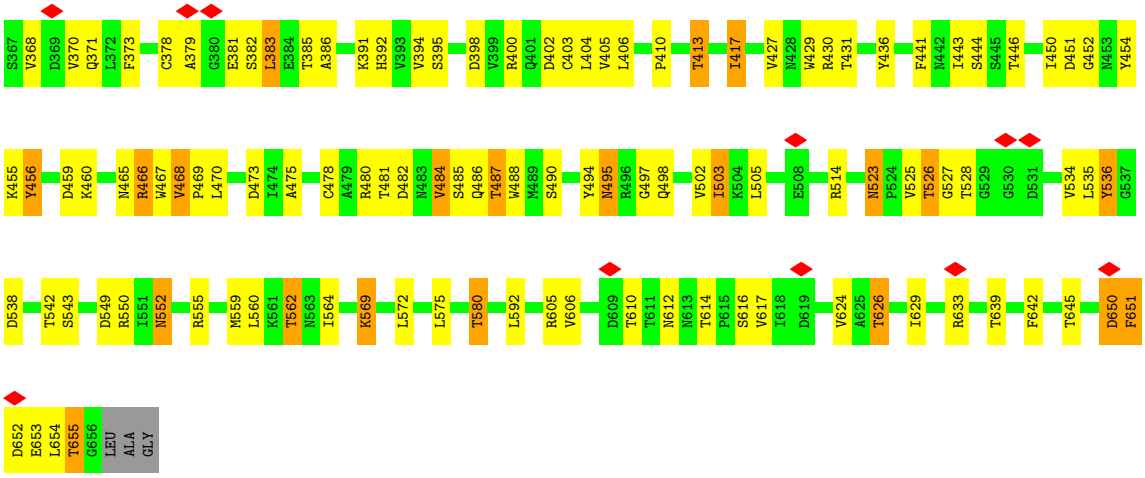
• Molecule 1: gp18, tail sheath protein

Chain Nf:



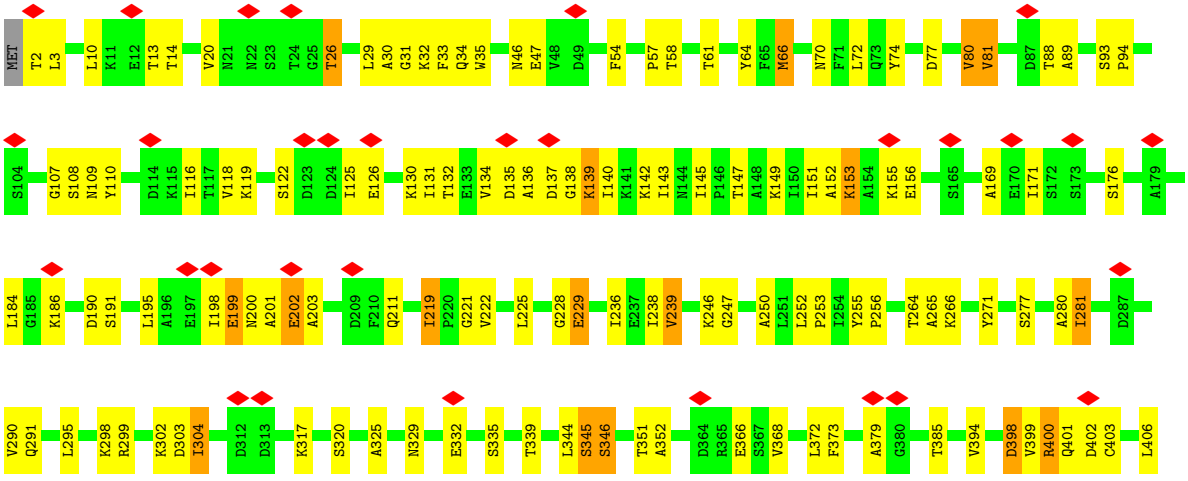






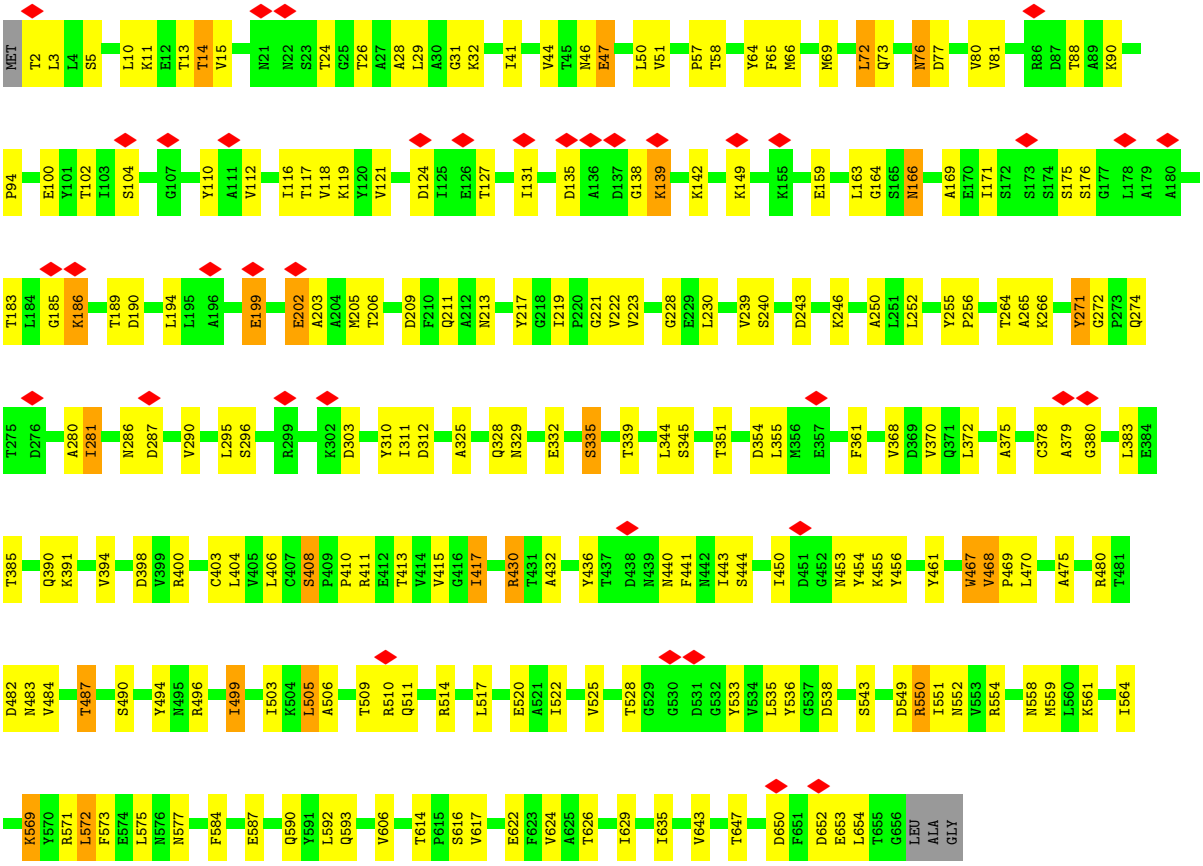
• Molecule 1: gp18, tail sheath protein

Chain Ng:



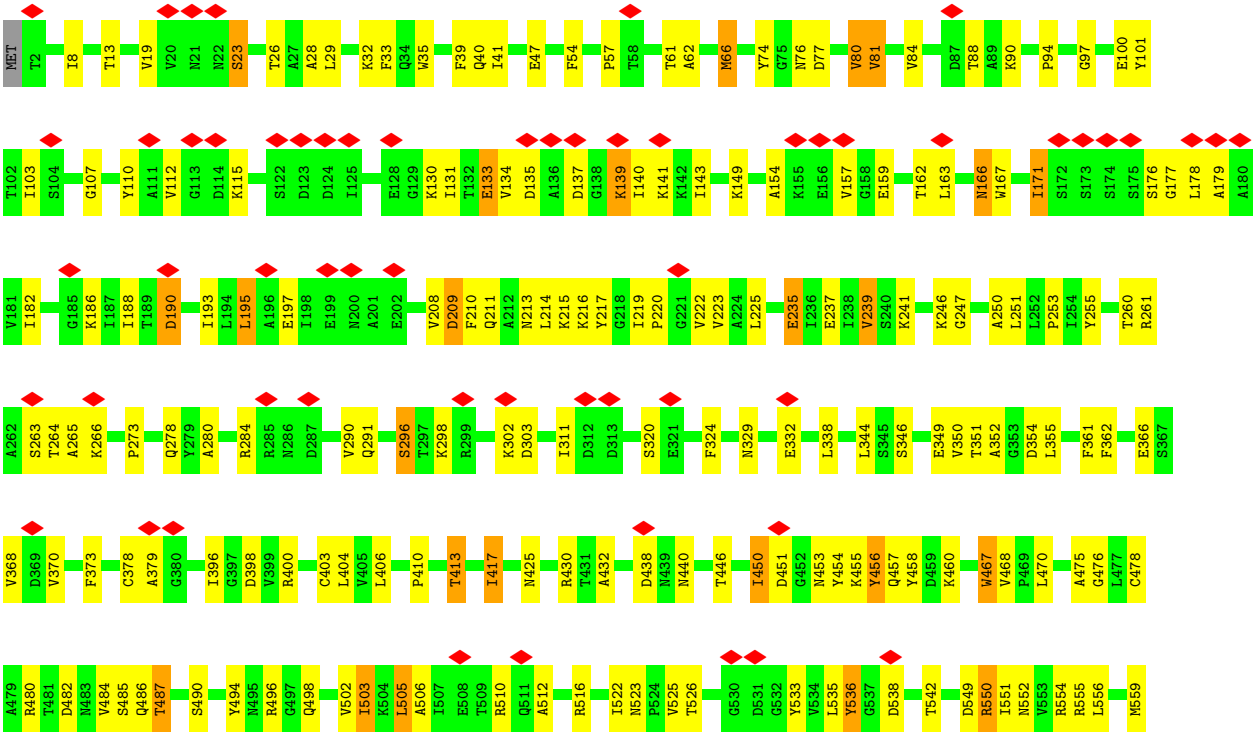
• Molecule 1: gp18, tail sheath protein

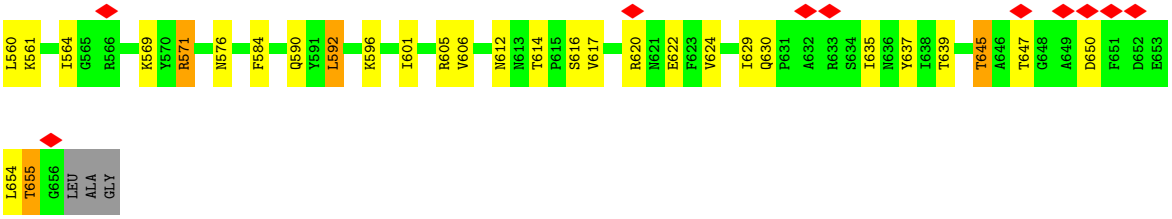
Chain Nh:



• Molecule 1: gp18, tail sheath protein

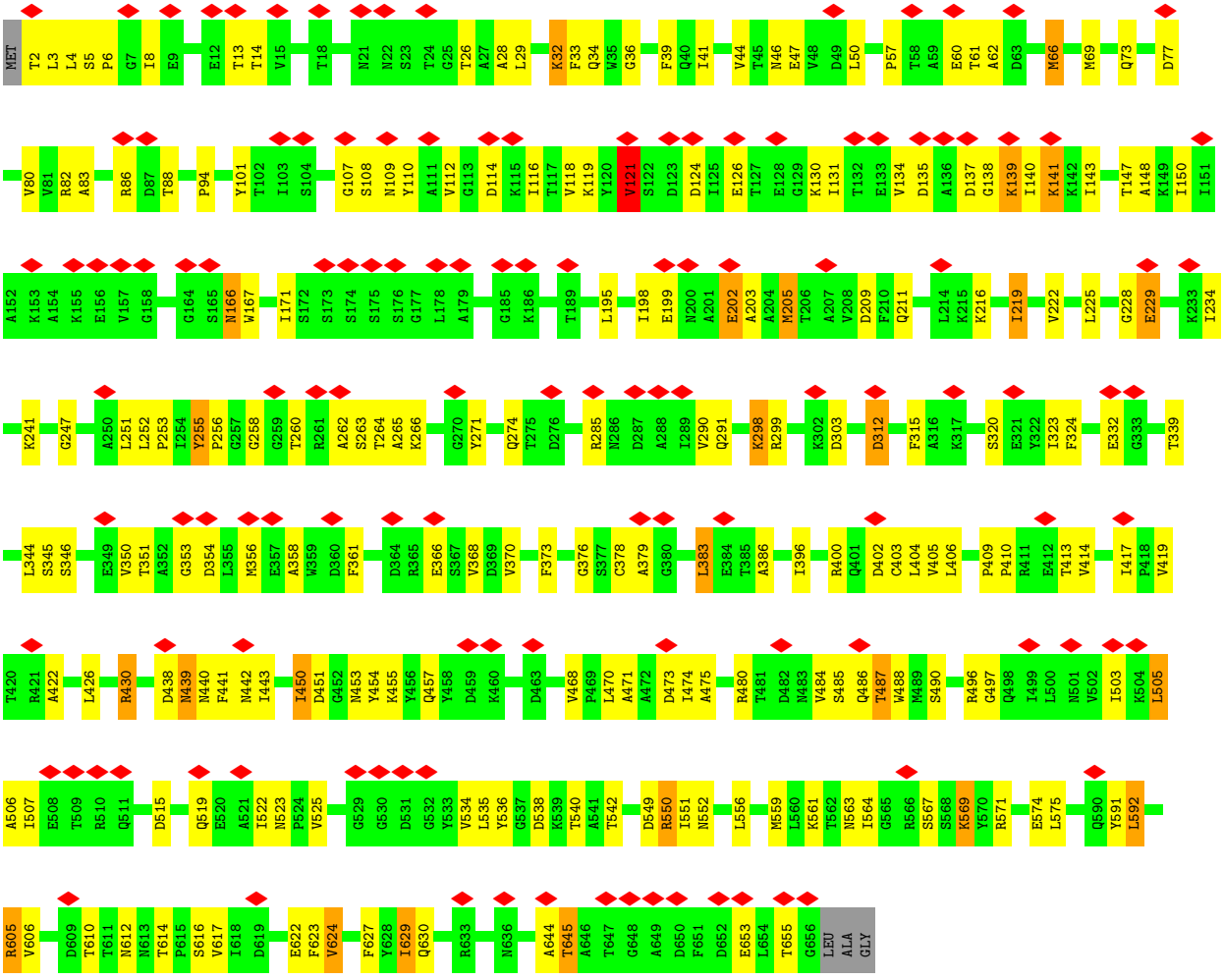
Chain Ni:





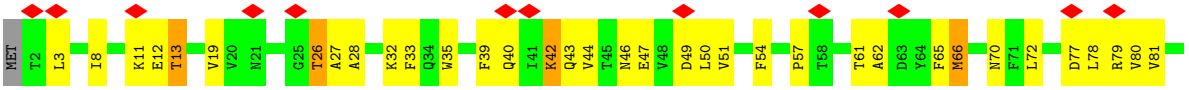
• Molecule 1: gp18, tail sheath protein

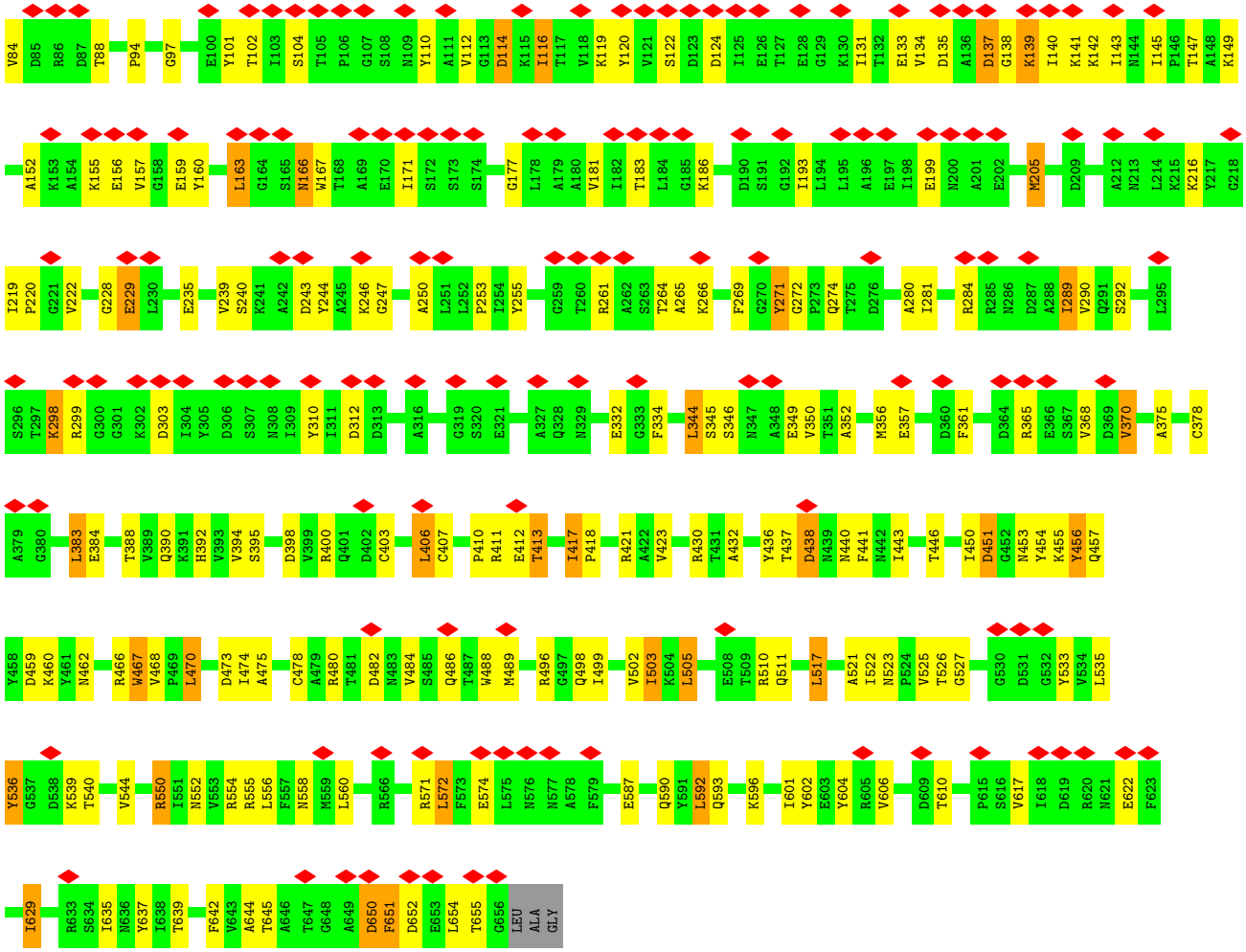
Chain Nj:



• Molecule 1: gp18, tail sheath protein

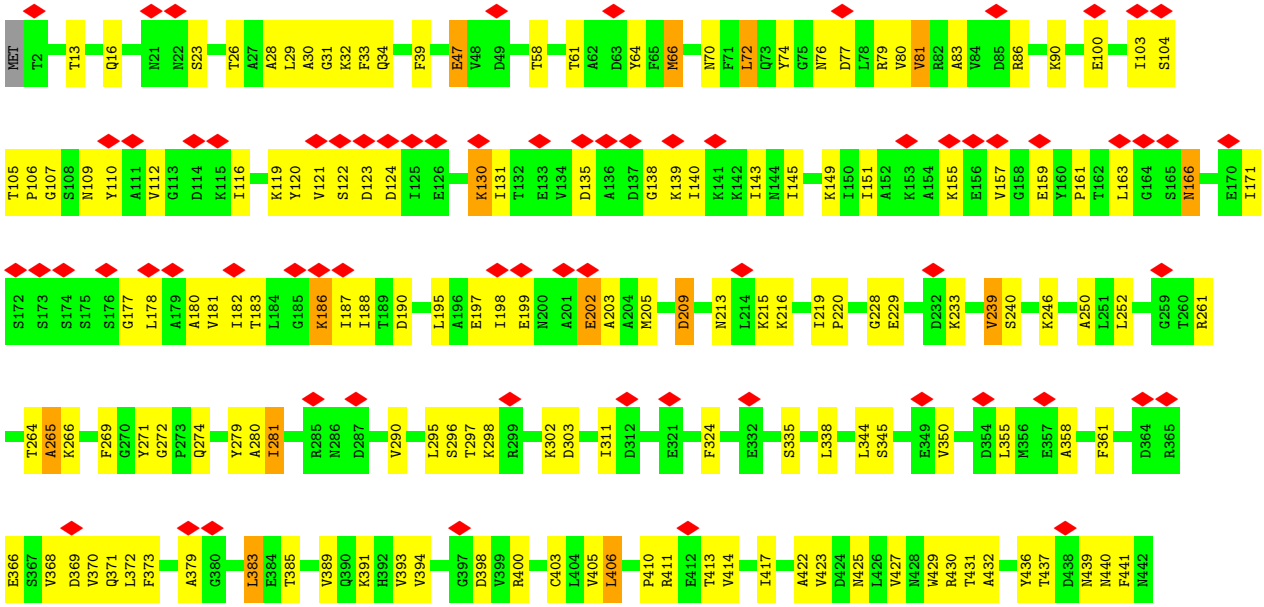
Chain Nv:

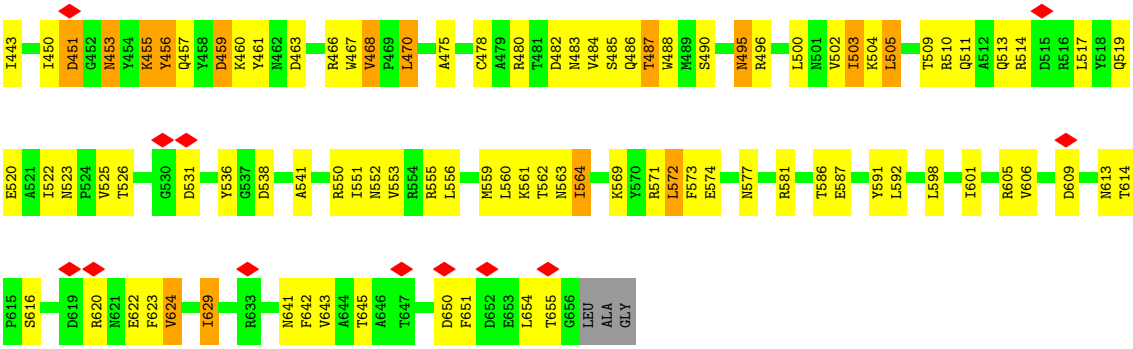




• Molecule 1: gp18, tail sheath protein

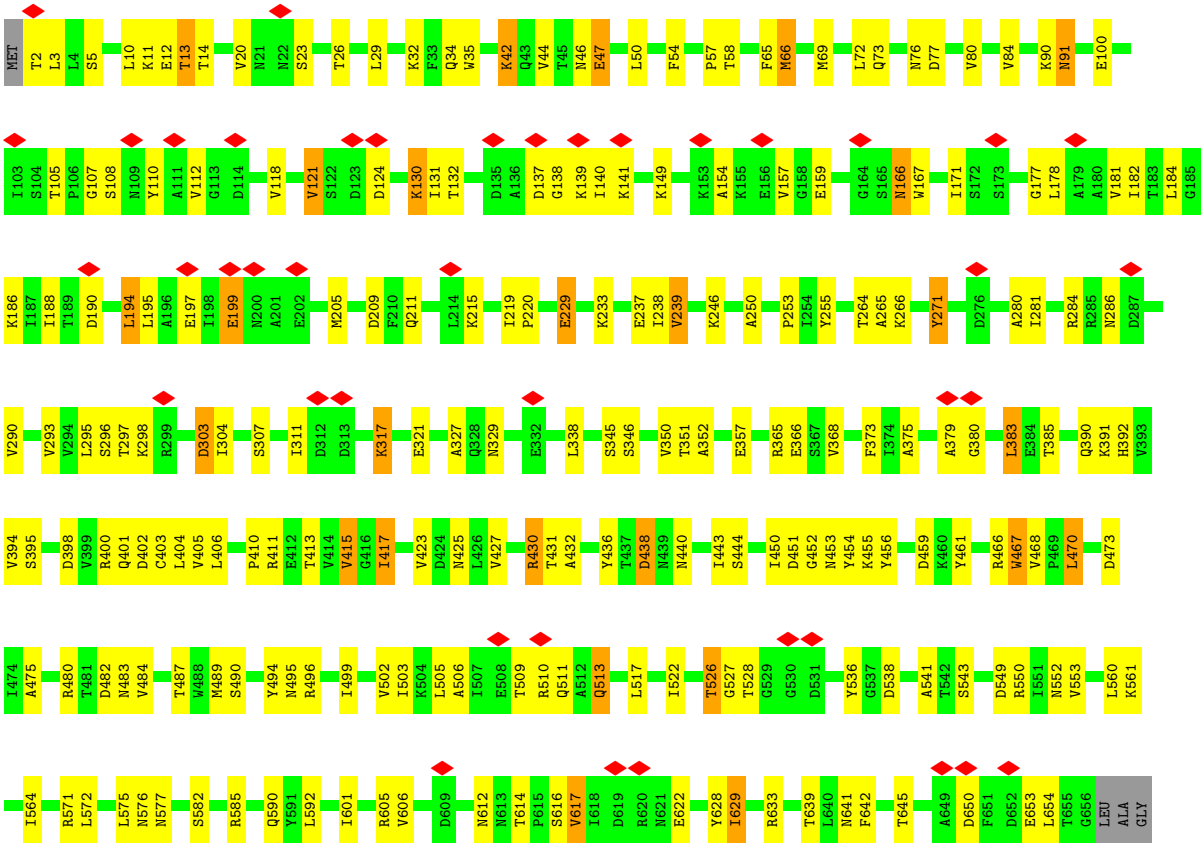
Chain Nw:





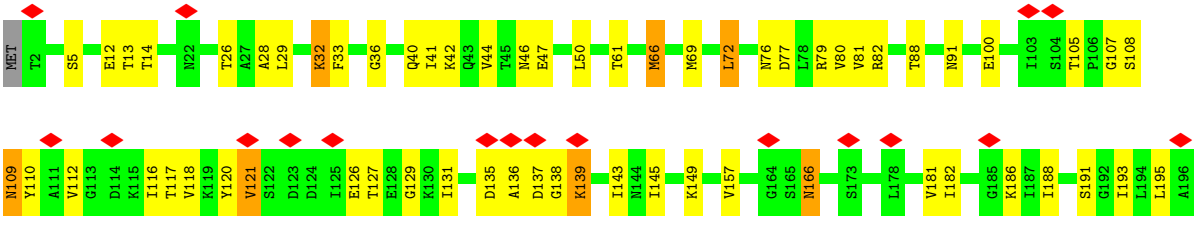
• Molecule 1: gp18, tail sheath protein

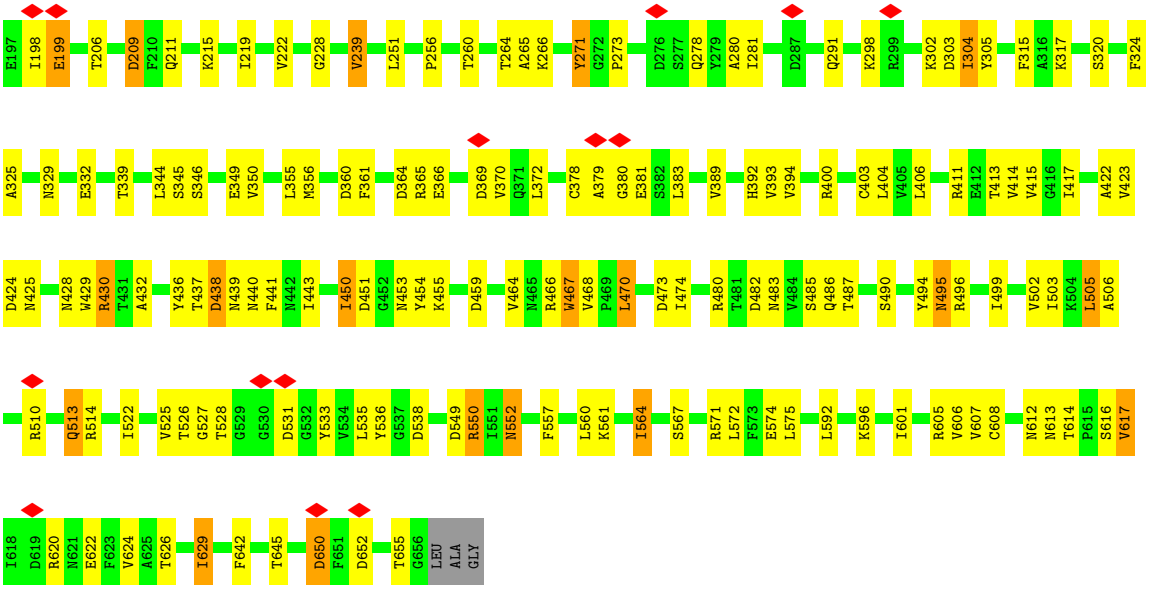
Chain Nx:



• Molecule 1: gp18, tail sheath protein

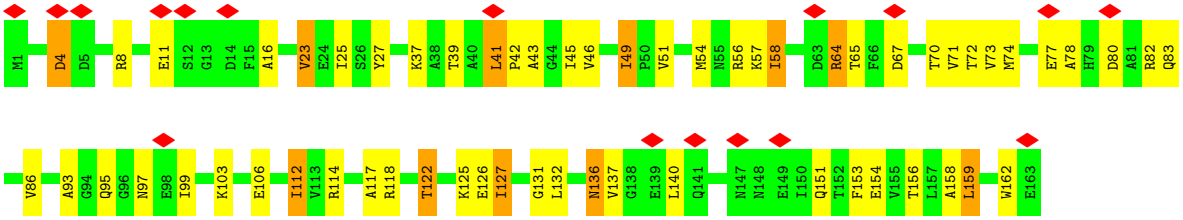
Chain Nz:





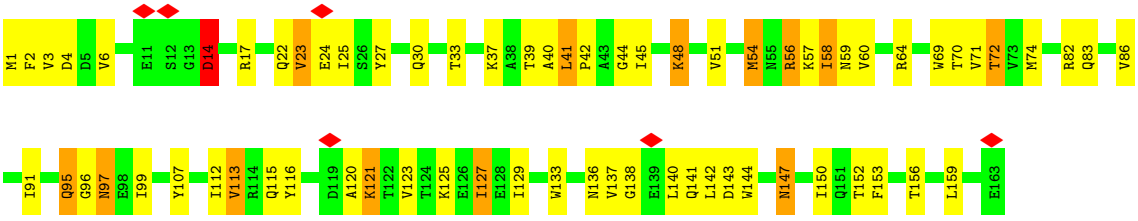
• Molecule 2: gp19, tail tube protein

Chain OC:



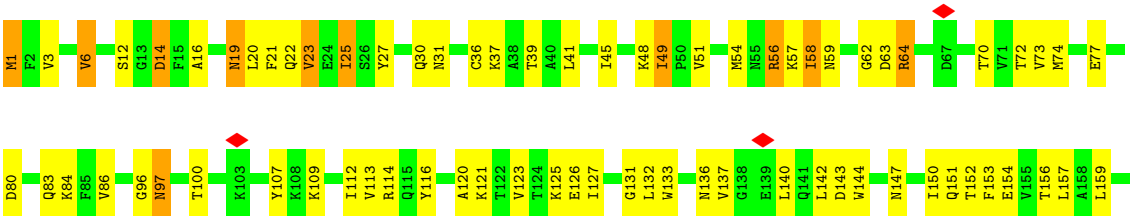
• Molecule 2: gp19, tail tube protein

Chain OD:



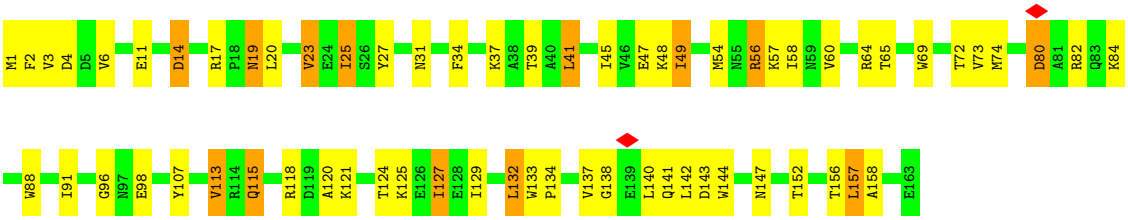
• Molecule 2: gp19, tail tube protein

Chain OE:



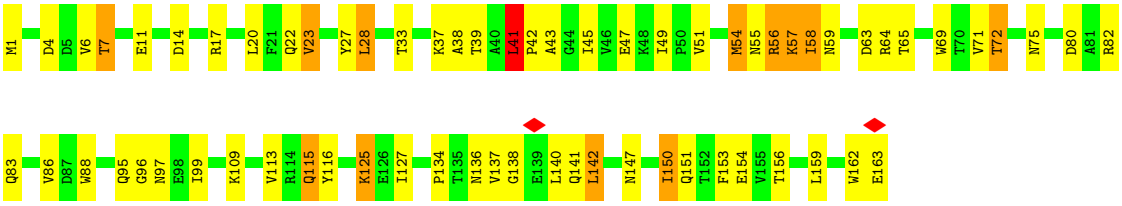
• Molecule 2: gp19, tail tube protein

Chain OF:



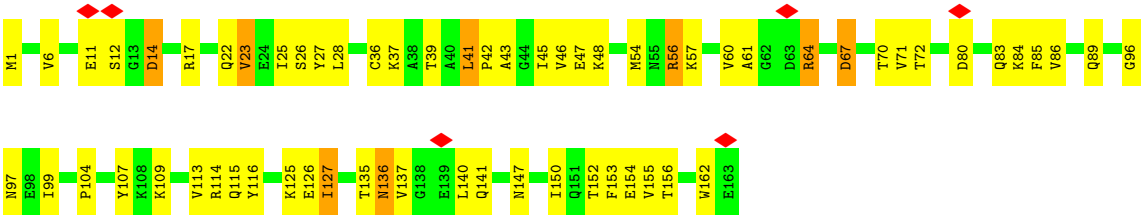
• Molecule 2: gp19, tail tube protein

Chain OG:



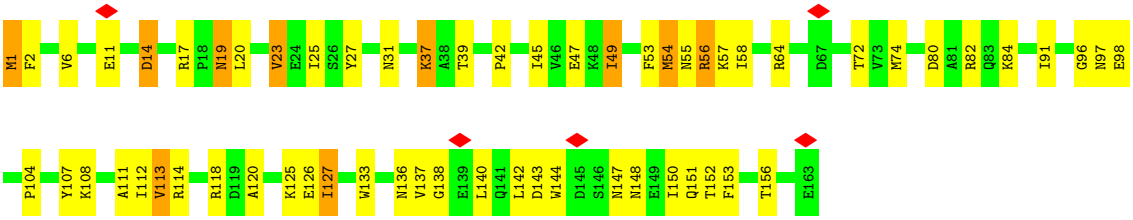
• Molecule 2: gp19, tail tube protein

Chain OH:



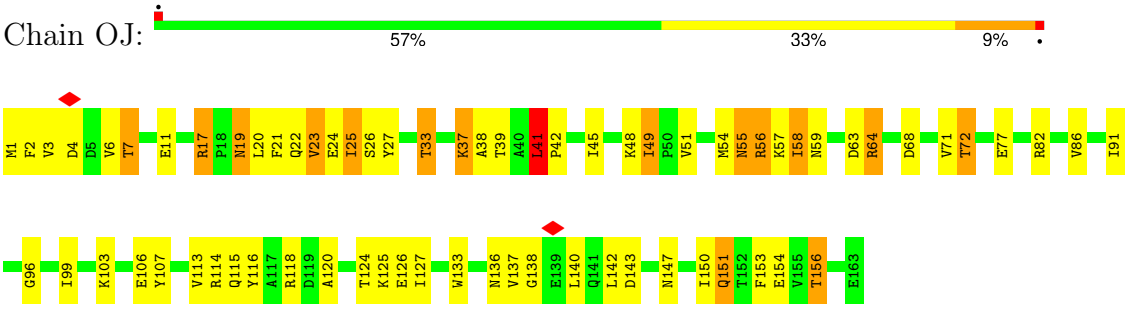
• Molecule 2: gp19, tail tube protein

Chain OI:



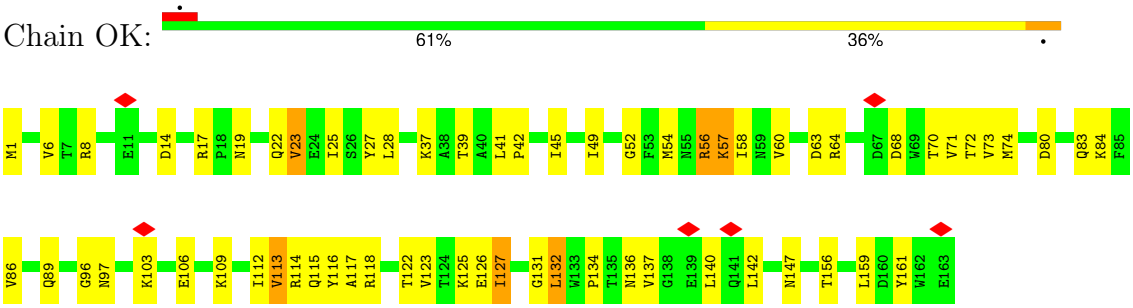
• Molecule 2: gp19, tail tube protein

Chain OJ:



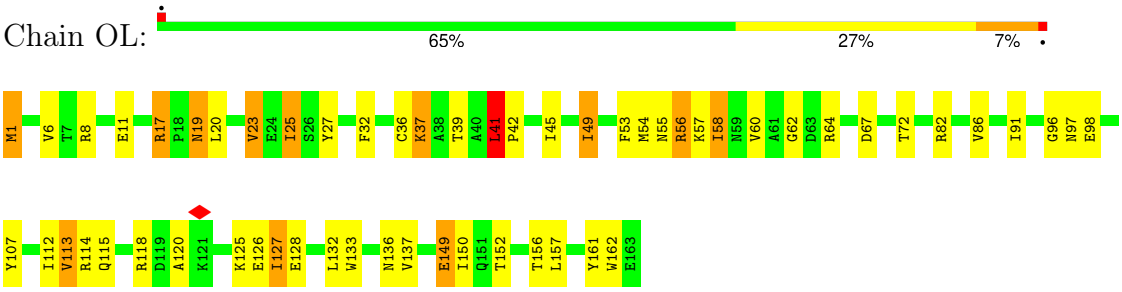
• Molecule 2: gp19, tail tube protein

Chain OK:



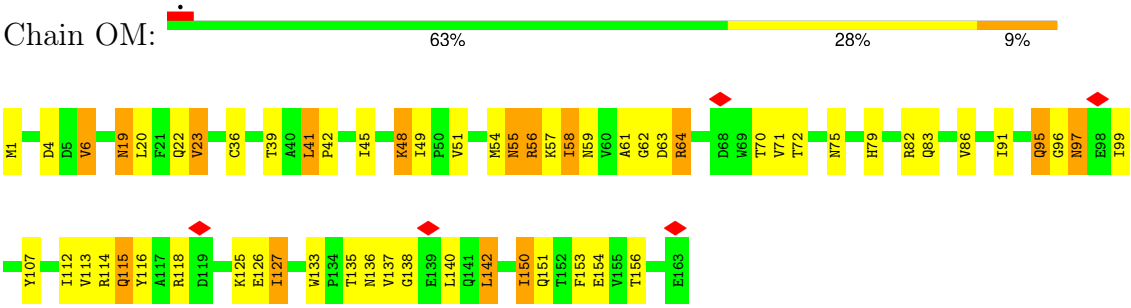
• Molecule 2: gp19, tail tube protein

Chain OL:



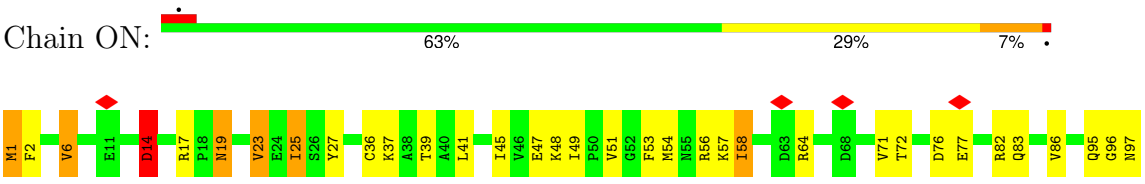
• Molecule 2: gp19, tail tube protein

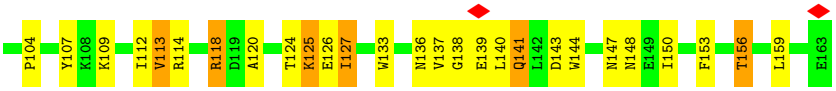
Chain OM:



• Molecule 2: gp19, tail tube protein

Chain ON:





• Molecule 2: gp19, tail tube protein

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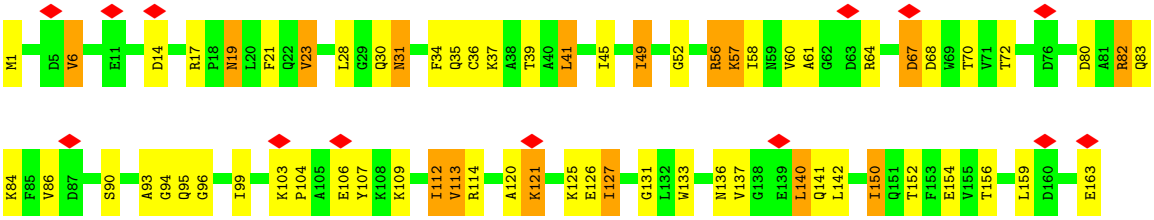

• Molecule 2: gp19, tail tube protein

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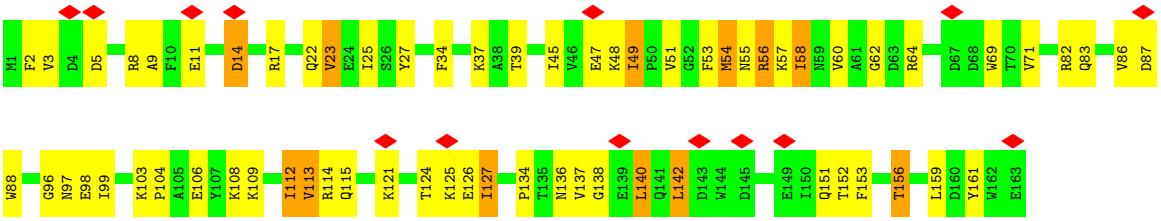
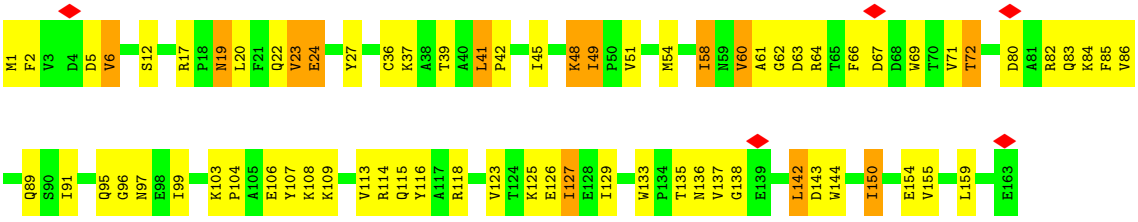


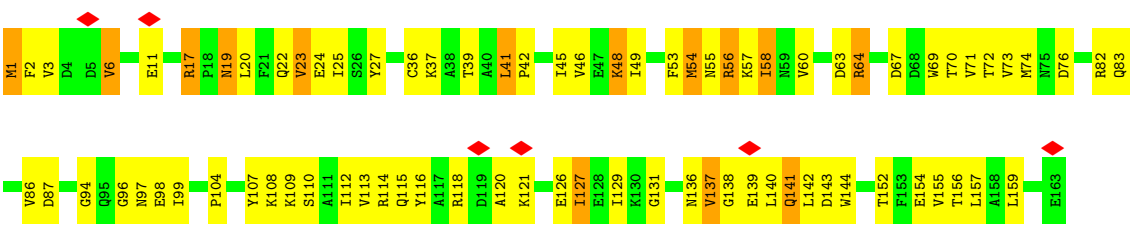
• Molecule 2: gp19, tail tube protein

Chain Oi:



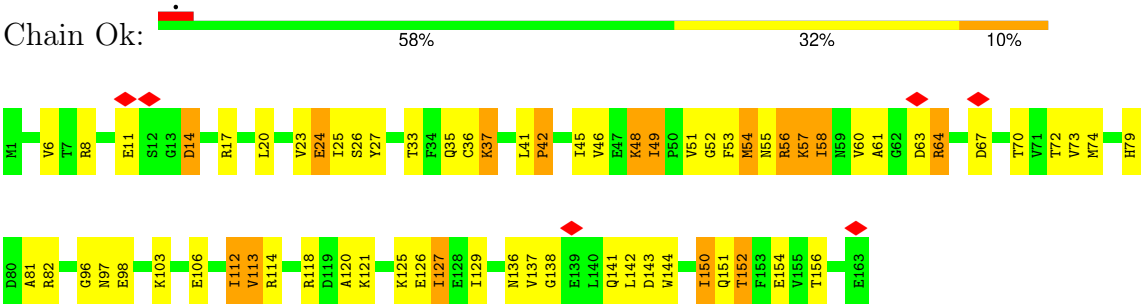
• Molecule 2: gp19, tail tube protein

Chain Oj:



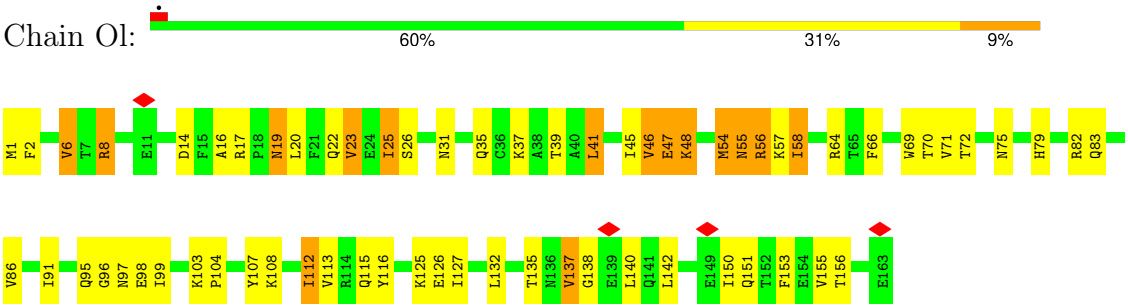
• Molecule 2: gp19, tail tube protein

Chain Ok:



• Molecule 2: gp19, tail tube protein

Chain Ol:



• Molecule 2: gp19, tail tube protein

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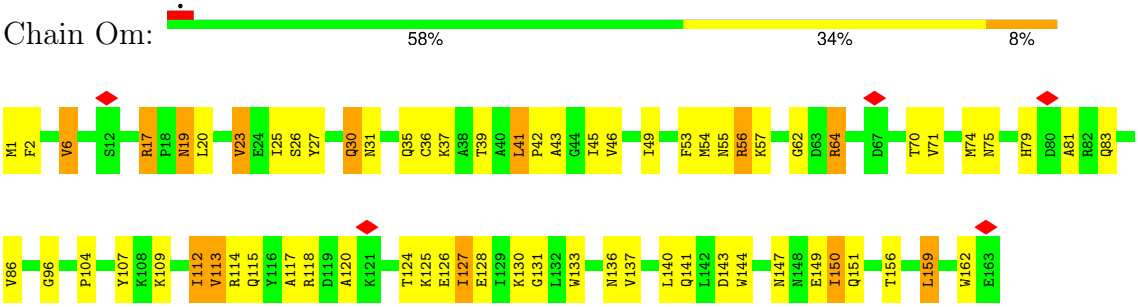
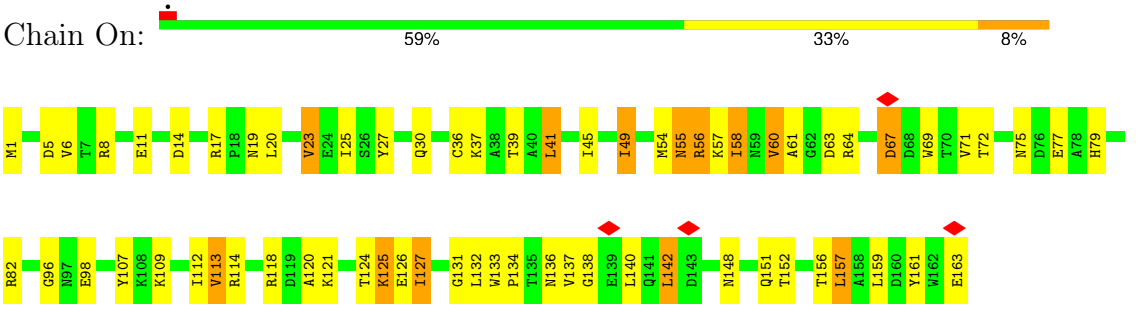


• Molecule 2: gp19, tail tube protein

Chain On:



• Molecule 2: gp19, tail tube protein

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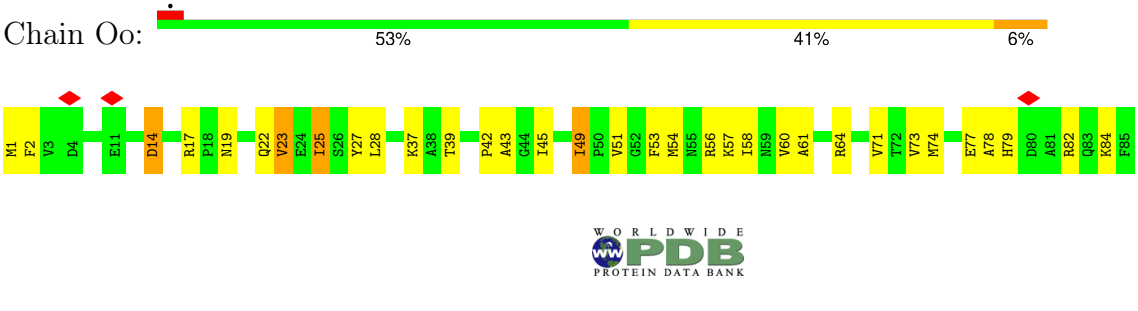
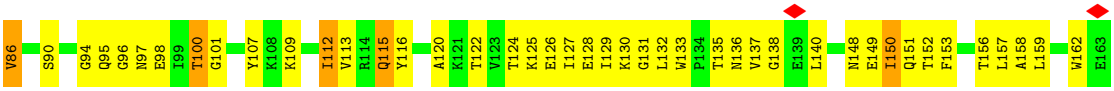
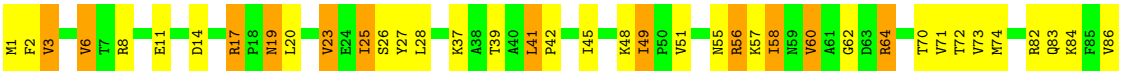
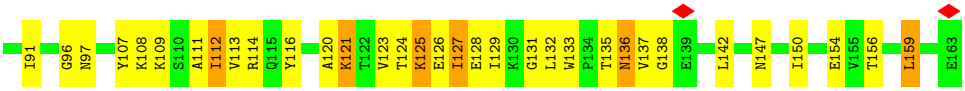




• Molecule 2: gp19, tail tube protein

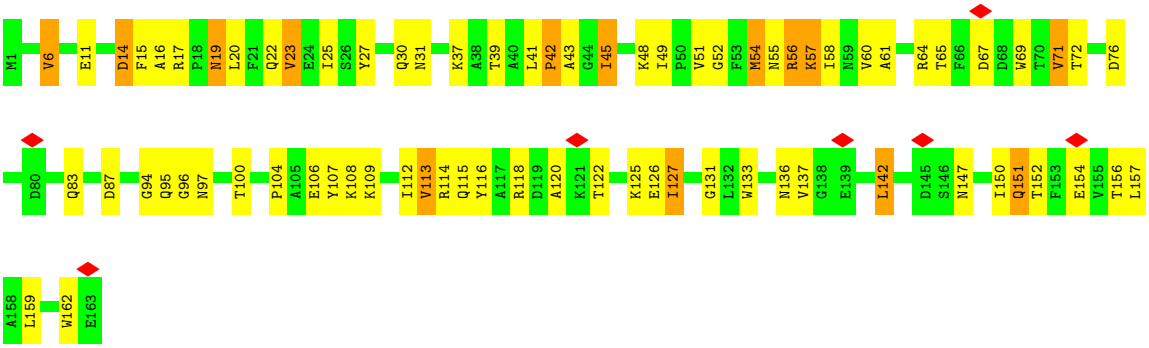
Chain Op:





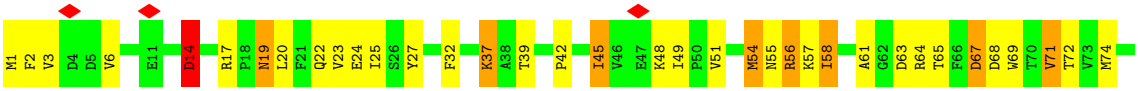
• Molecule 2: gp19, tail tube protein

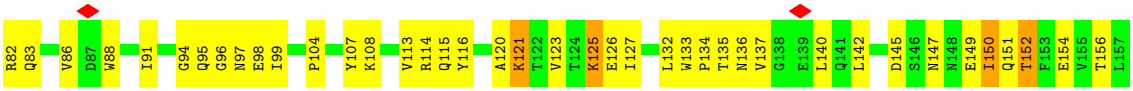
Chain Oq:



• Molecule 2: gp19, tail tube protein

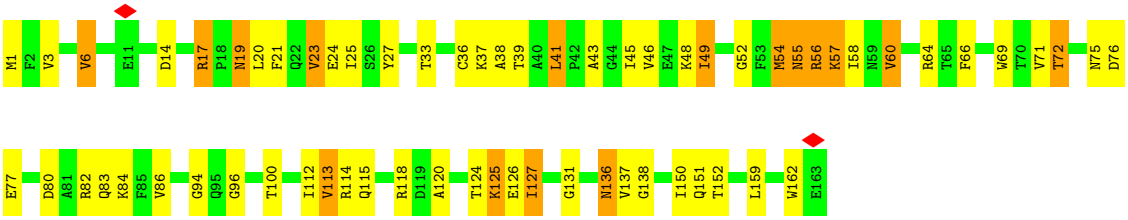
Chain Or:





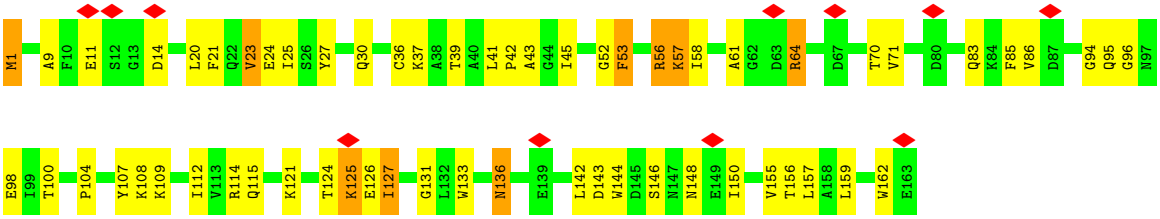
• Molecule 2: gp19, tail tube protein

Chain Os:



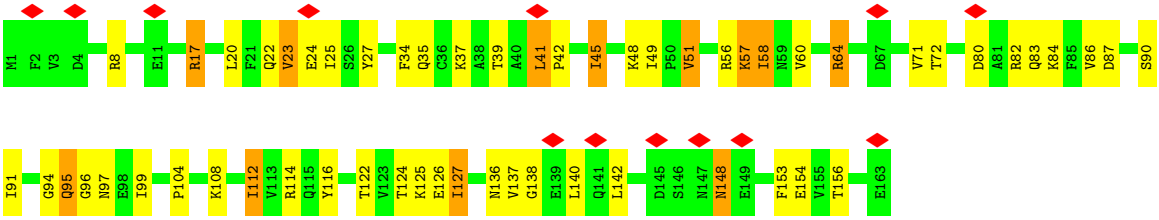
• Molecule 2: gp19, tail tube protein

Chain Ot:



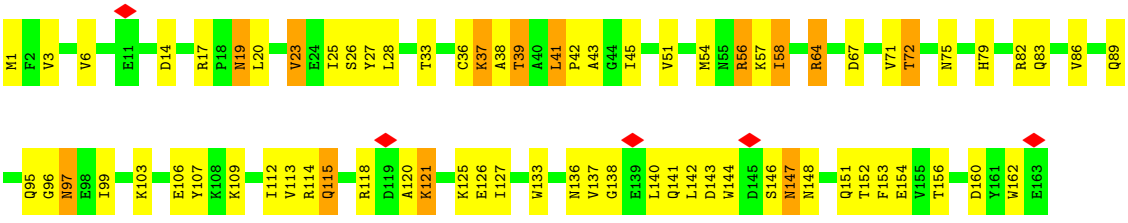
• Molecule 2: gp19, tail tube protein

Chain PC:



• Molecule 2: gp19, tail tube protein

Chain PD:



• Molecule 2: gp19, tail tube protein

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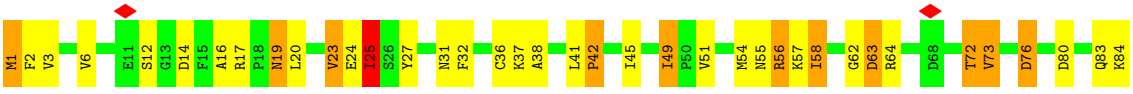
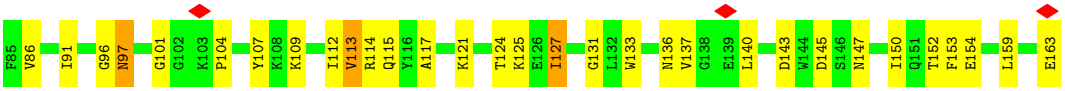
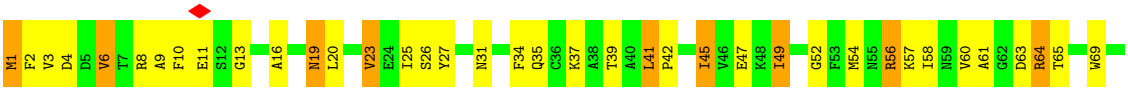
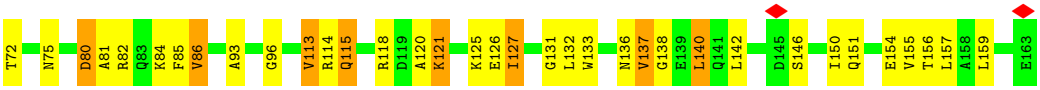




• Molecule 2: gp19, tail tube protein

Chain PF:





• Molecule 2: gp19, tail tube protein

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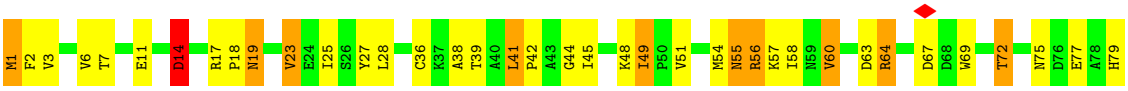

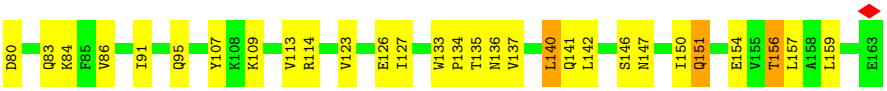

• Molecule 2: gp19, tail tube protein

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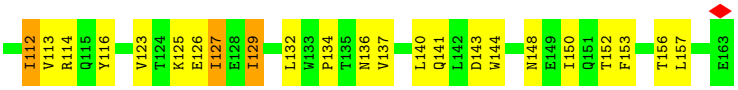
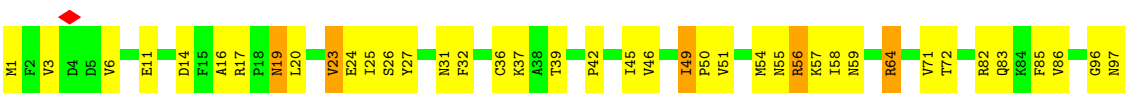
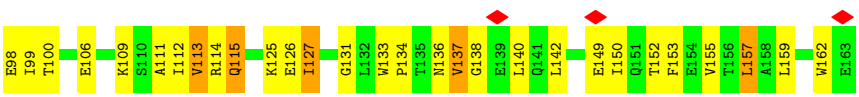


• Molecule 2: gp19, tail tube protein

Chain PI:





• Molecule 2: gp19, tail tube protein

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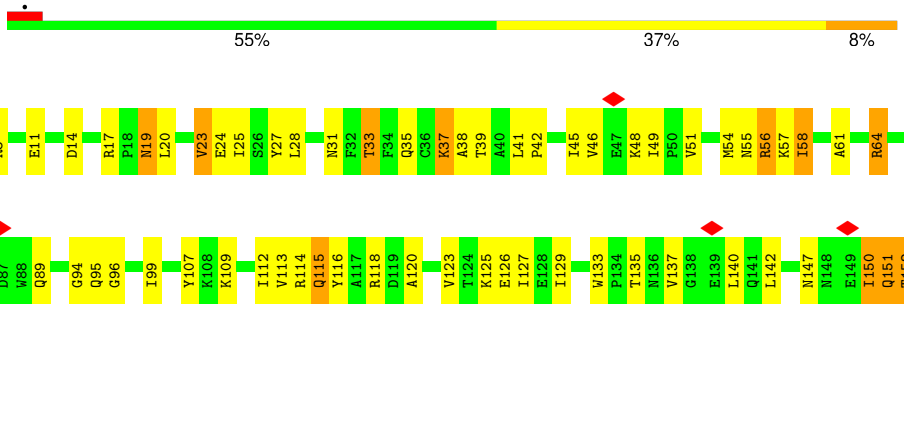

• Molecule 2: gp19, tail tube protein

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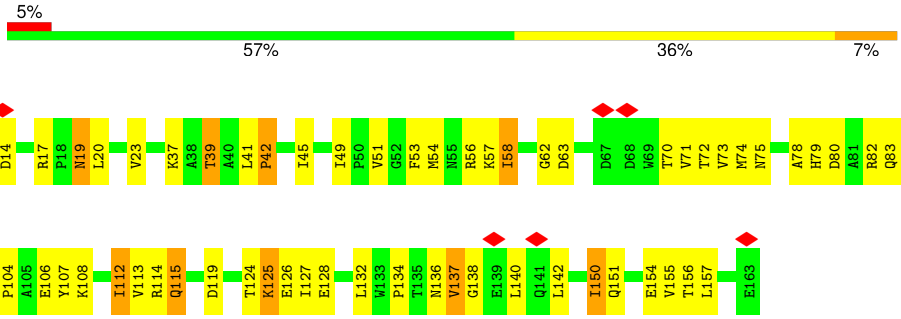

• Molecule 2: gp19, tail tube protein

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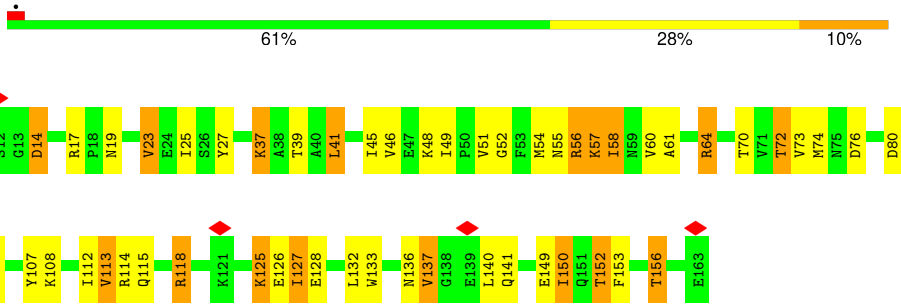
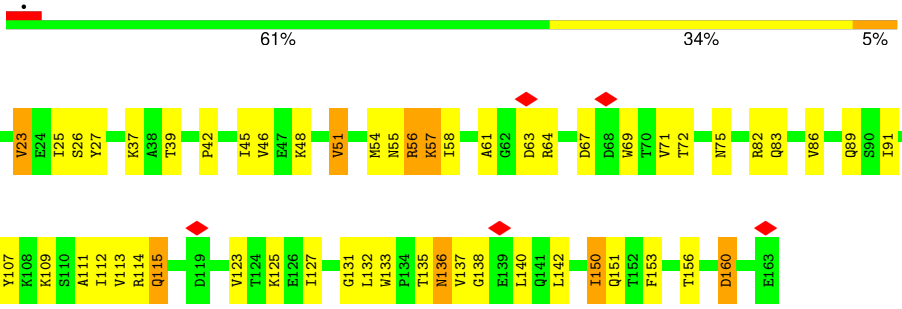


• Molecule 2: gp19, tail tube protein

Chain PM:



• Molecule 2: gp19, tail tube protein

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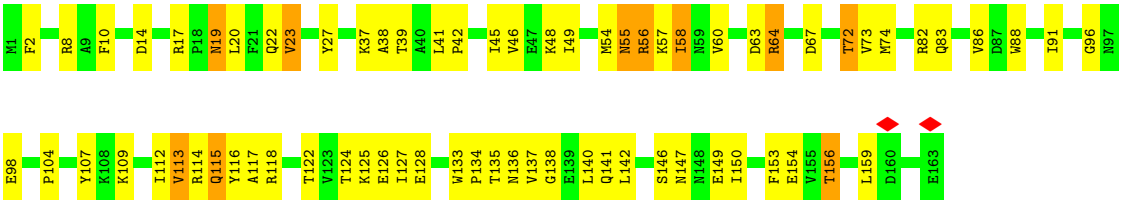
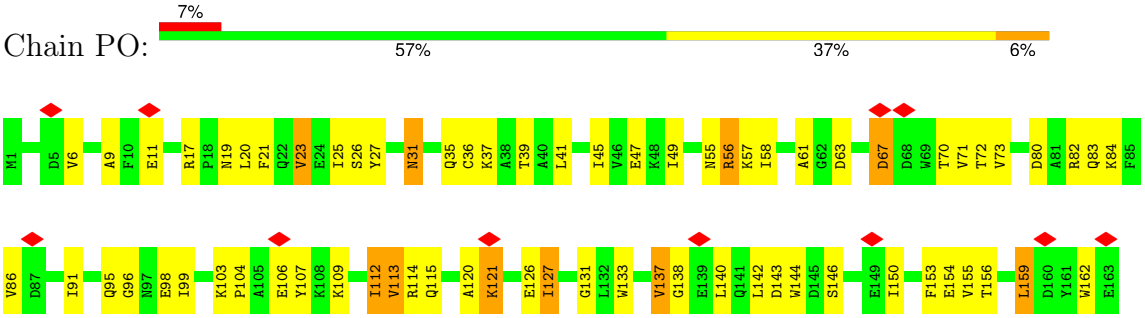
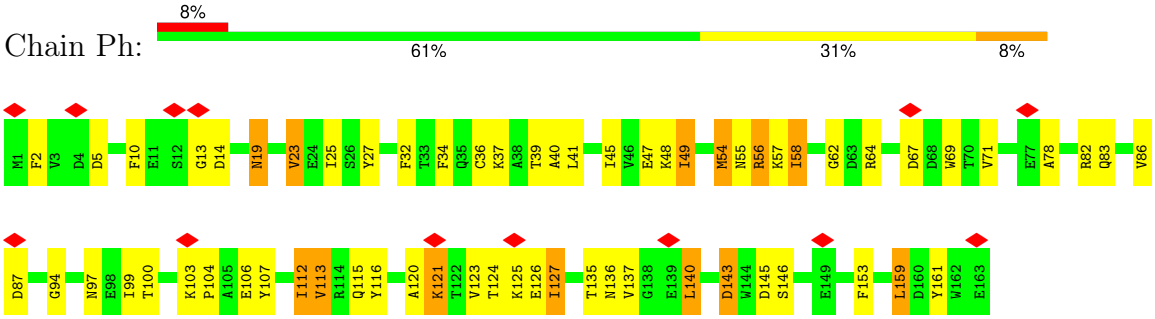


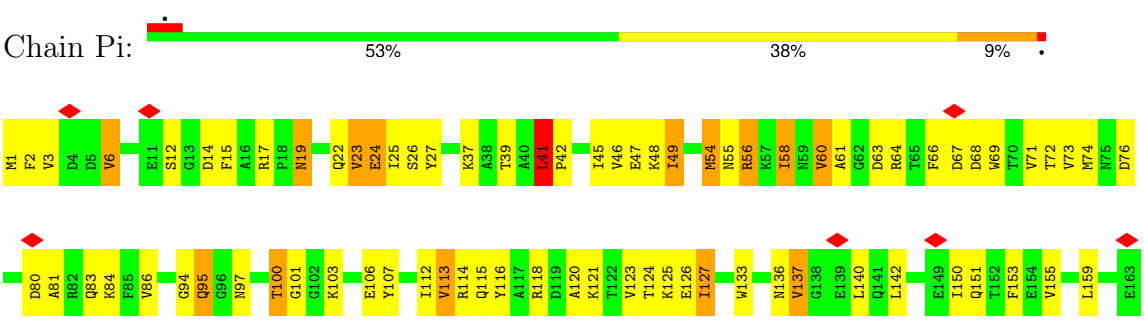
• Molecule 2: gp19, tail tube protein



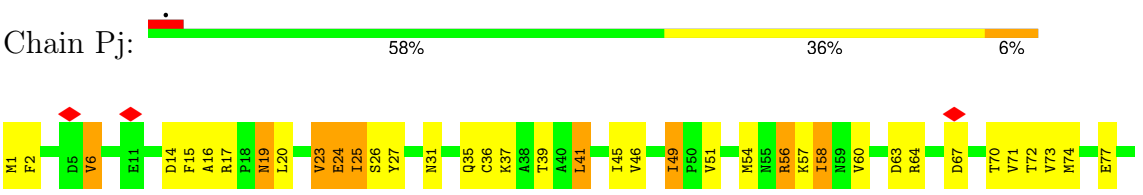
• Molecule 2: gp19, tail tube protein

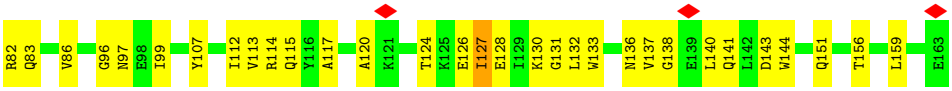


• Molecule 2: gp19, tail tube protein



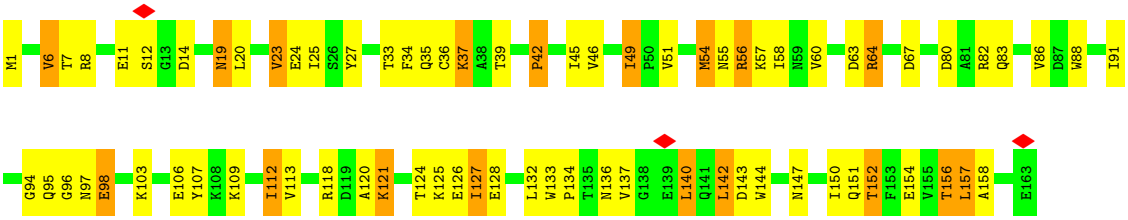
• Molecule 2: gp19, tail tube protein





• Molecule 2: gp19, tail tube protein

Chain Pk:



• Molecule 2: gp19, tail tube protein

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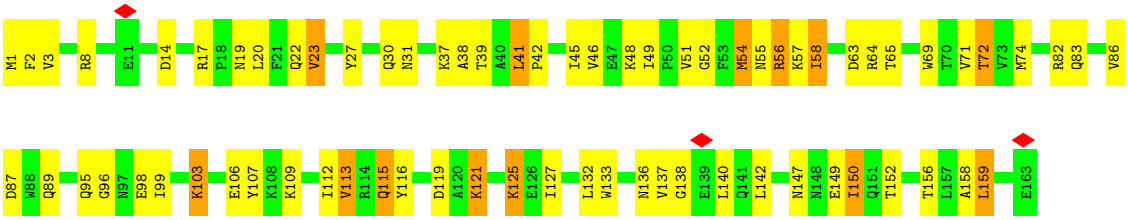

• Molecule 2: gp19, tail tube protein

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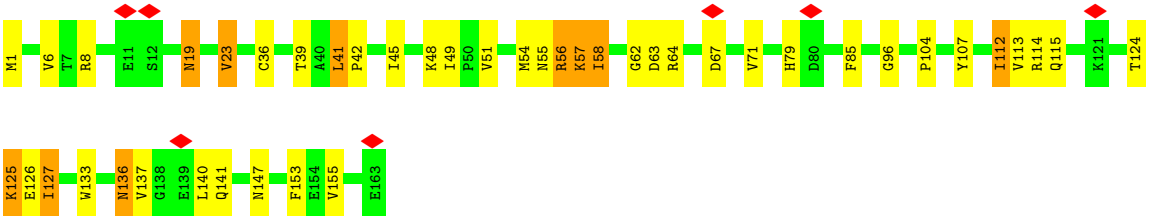
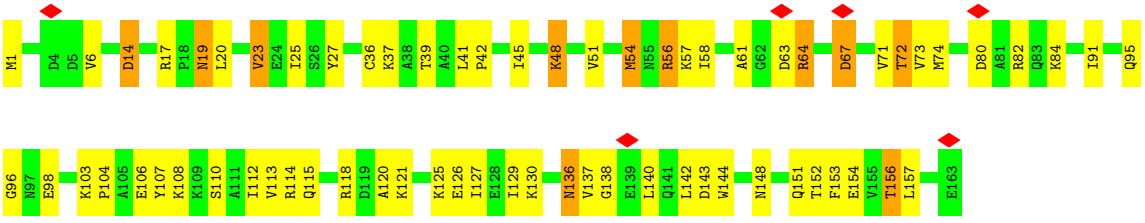


• Molecule 2: gp19, tail tube protein

Chain Pn:



• Molecule 2: gp19, tail tube protein

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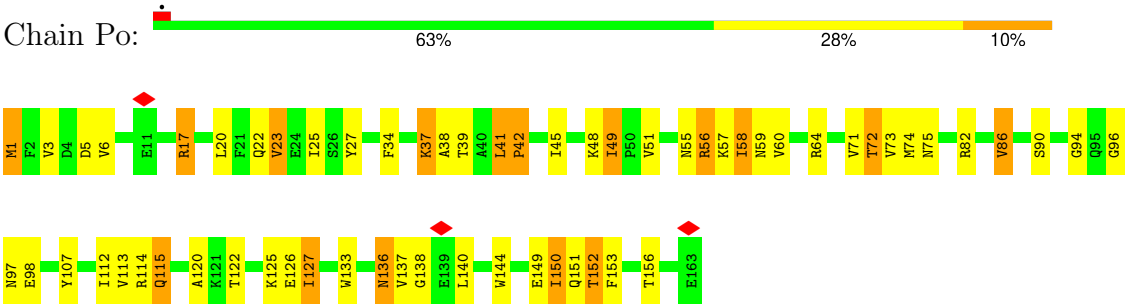

• Molecule 2: gp19, tail tube protein

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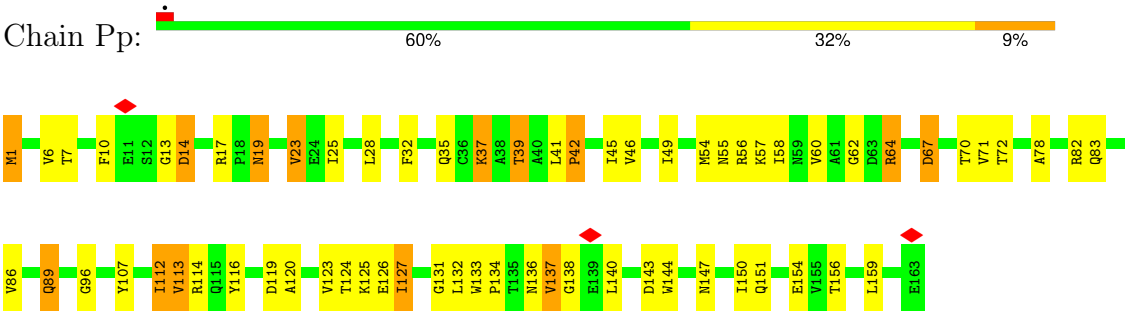

• Molecule 2: gp19, tail tube protein

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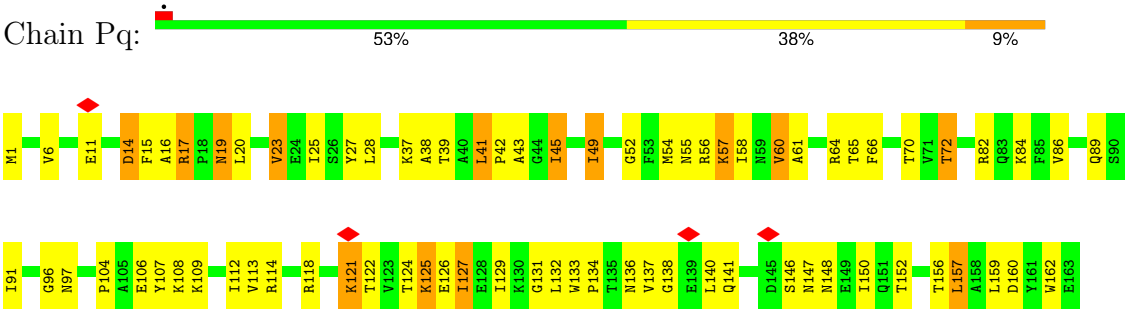

• Molecule 2: gp19, tail tube protein

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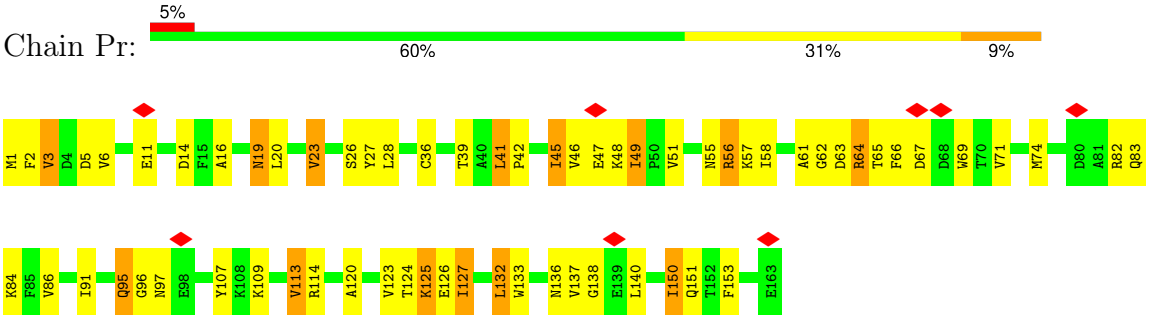
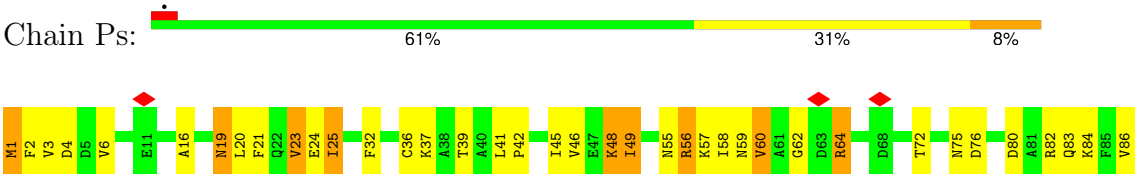


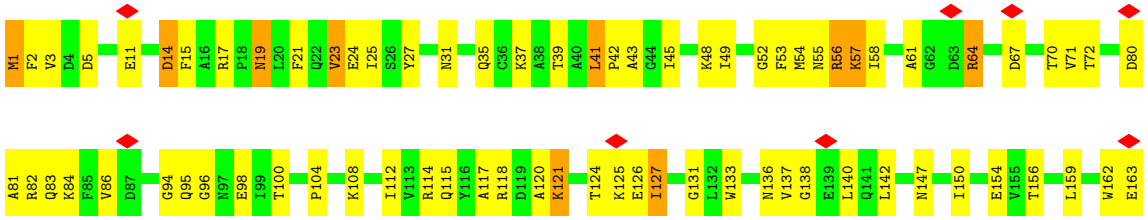
• Molecule 2: gp19, tail tube protein

Chain Ps:



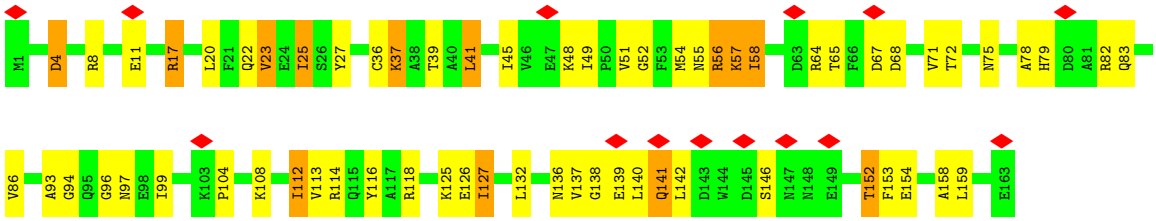
• Molecule 2: gp19, tail tube protein

Chain Pt:



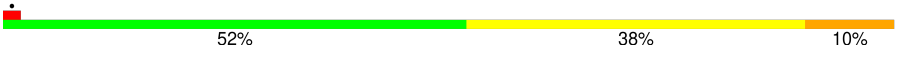
• Molecule 2: gp19, tail tube protein

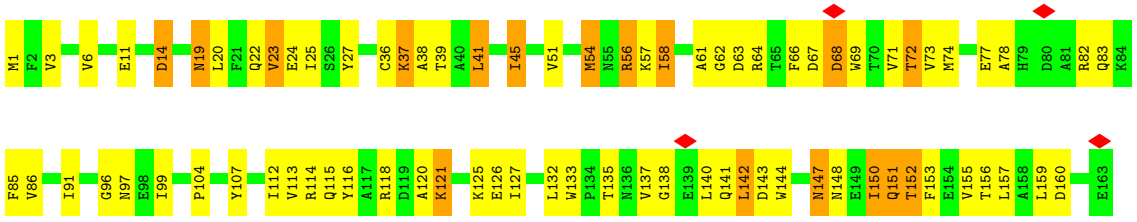
Chain RC:



• Molecule 2: gp19, tail tube protein

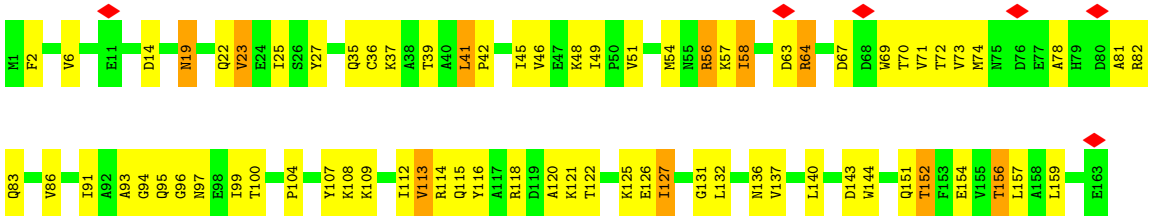
Chain RD:





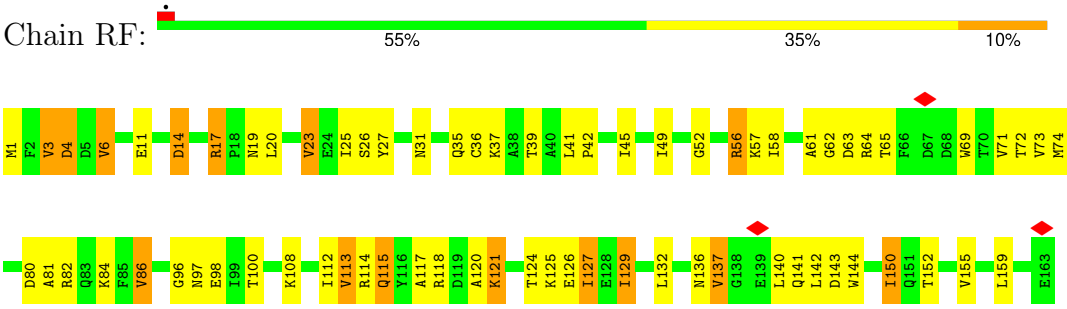
• Molecule 2: gp19, tail tube protein

Chain RE:



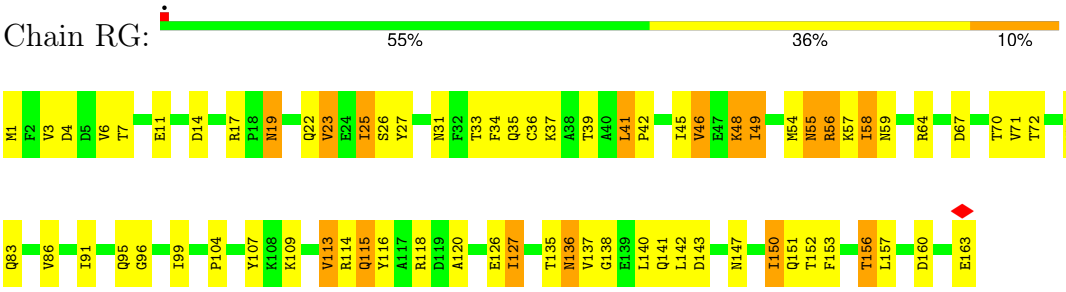
• Molecule 2: gp19, tail tube protein

Chain RF:



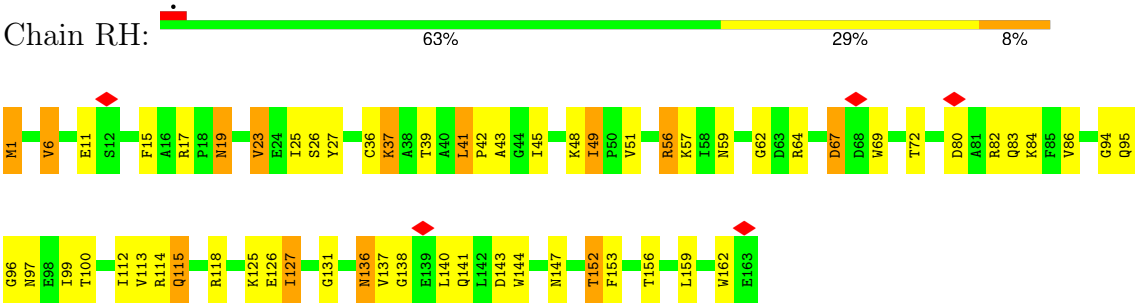
• Molecule 2: gp19, tail tube protein

Chain RG:



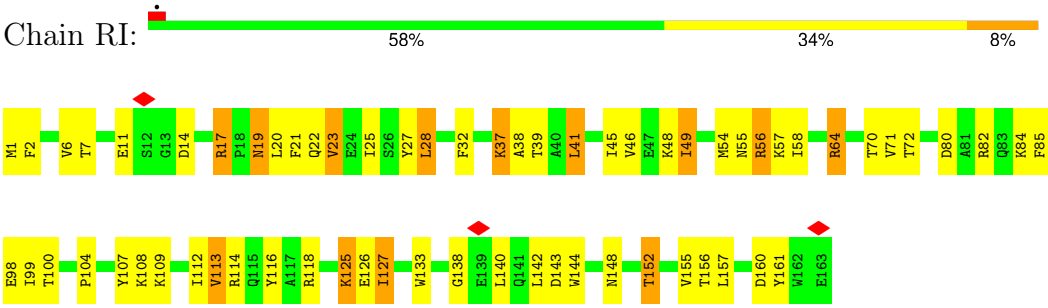
• Molecule 2: gp19, tail tube protein

Chain RH:



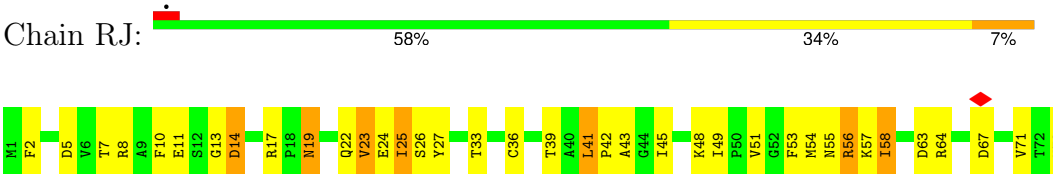
• Molecule 2: gp19, tail tube protein

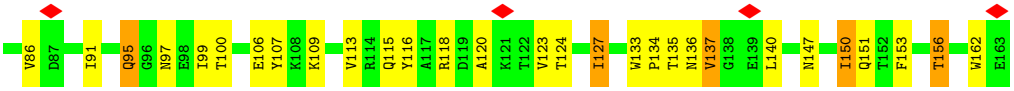
Chain RI:



• Molecule 2: gp19, tail tube protein

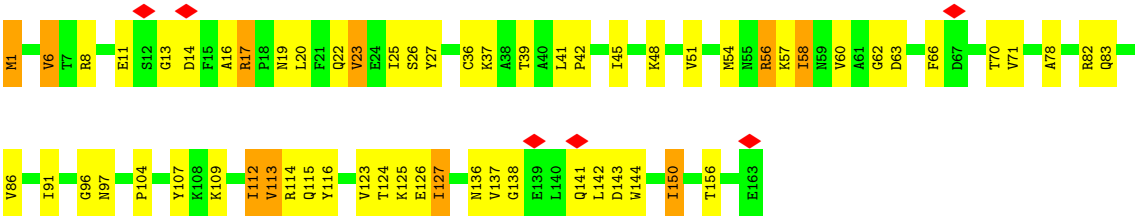
Chain RJ:





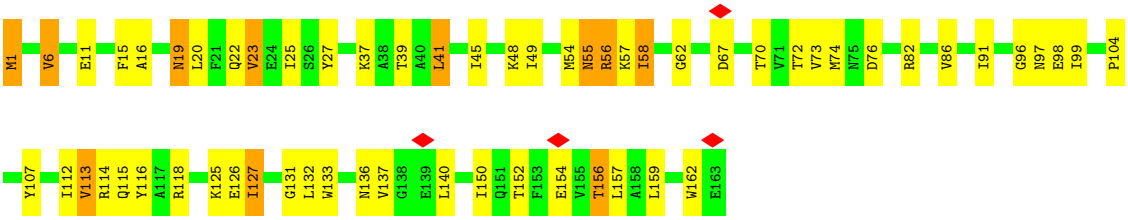
• Molecule 2: gp19, tail tube protein

Chain RK:



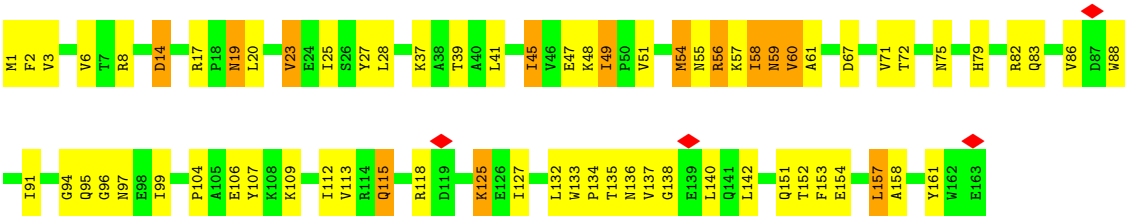
• Molecule 2: gp19, tail tube protein

Chain RL:



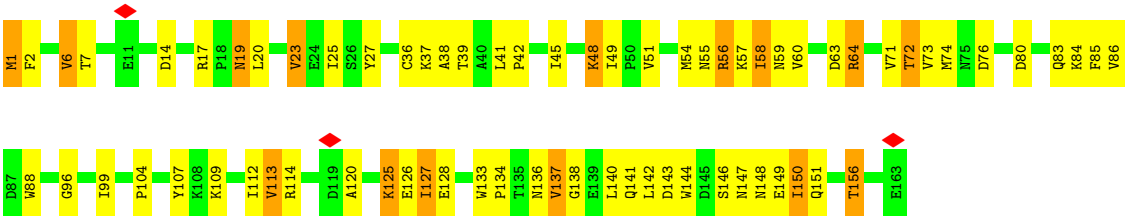
• Molecule 2: gp19, tail tube protein

Chain RM:



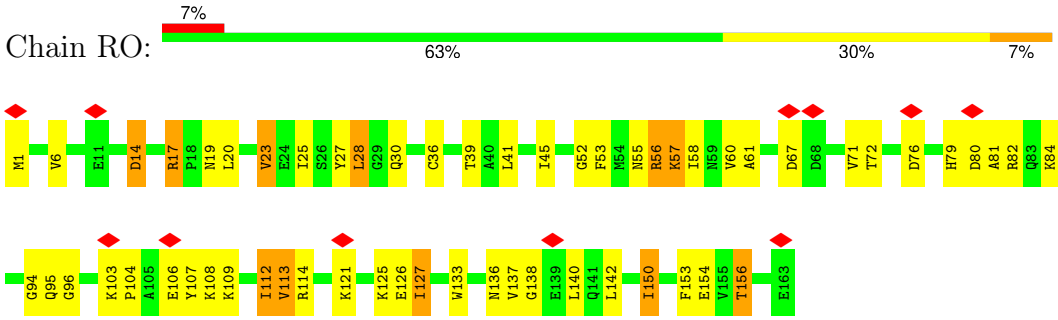
• Molecule 2: gp19, tail tube protein

Chain RN:



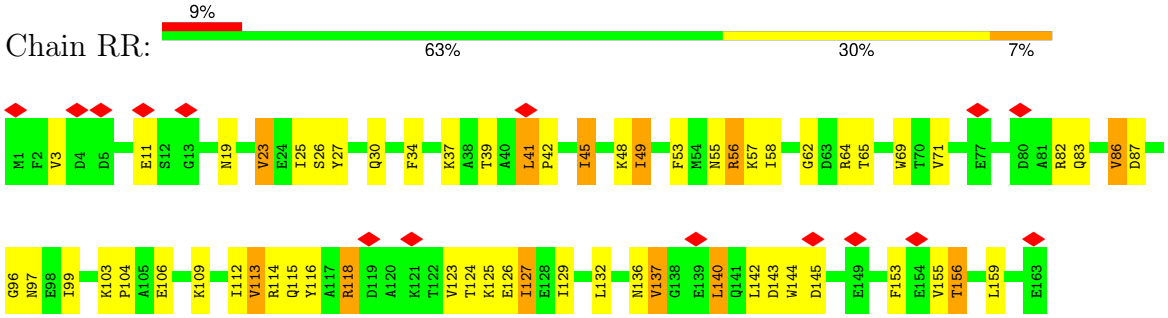
• Molecule 2: gp19, tail tube protein

Chain RO:



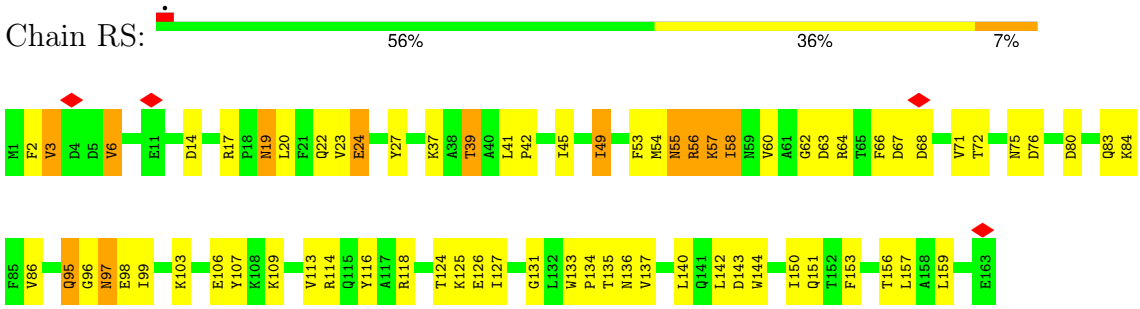
• Molecule 2: gp19, tail tube protein

Chain RR:



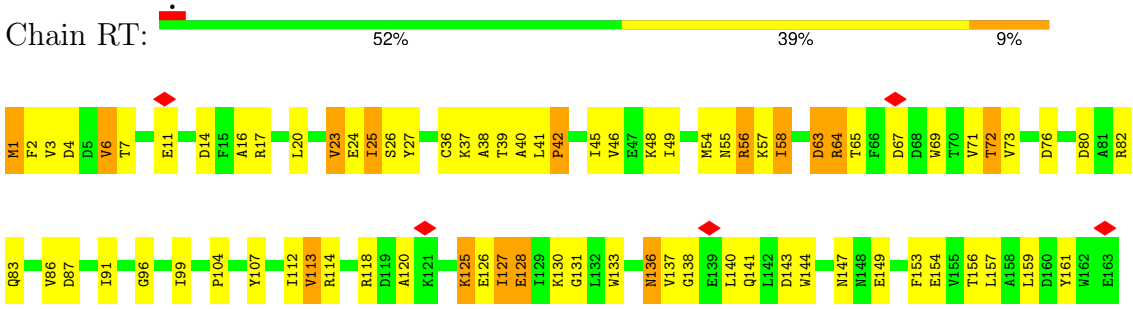
• Molecule 2: gp19, tail tube protein

Chain RS:



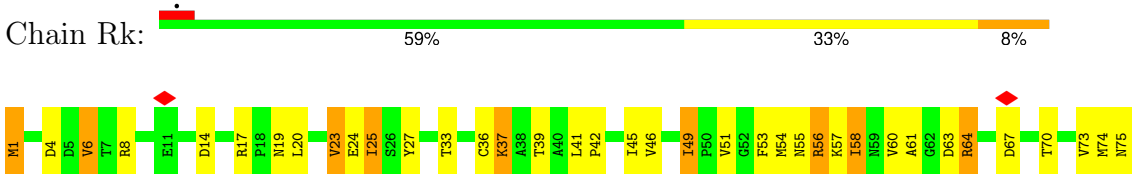
• Molecule 2: gp19, tail tube protein

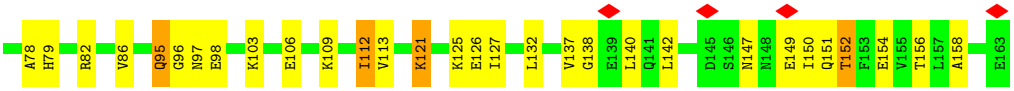
Chain RT:



• Molecule 2: gp19, tail tube protein

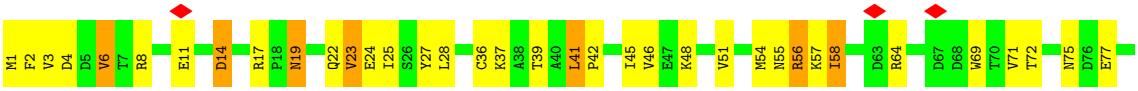
Chain Rk:

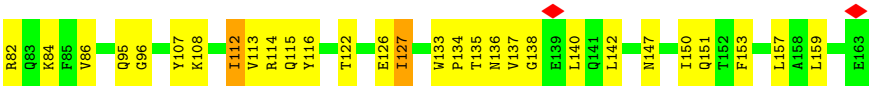




• Molecule 2: gp19, tail tube protein

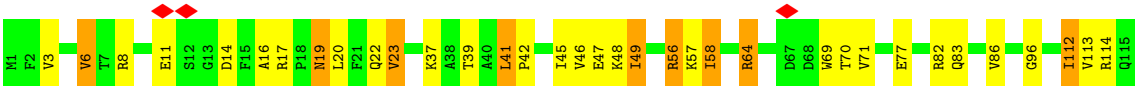
Chain Rl:

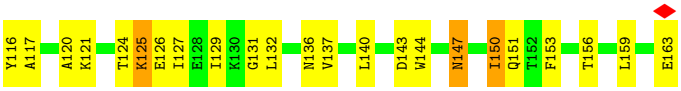




• Molecule 2: gp19, tail tube protein

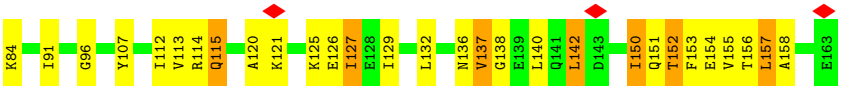
Chain Rm:





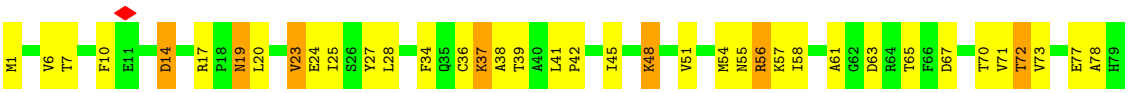
• Molecule 2: gp19, tail tube protein

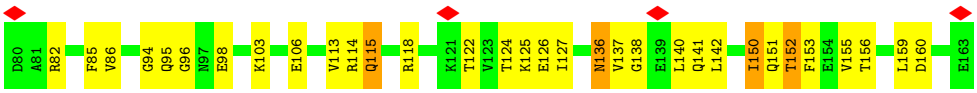
Chain Rn:



• Molecule 2: gp19, tail tube protein

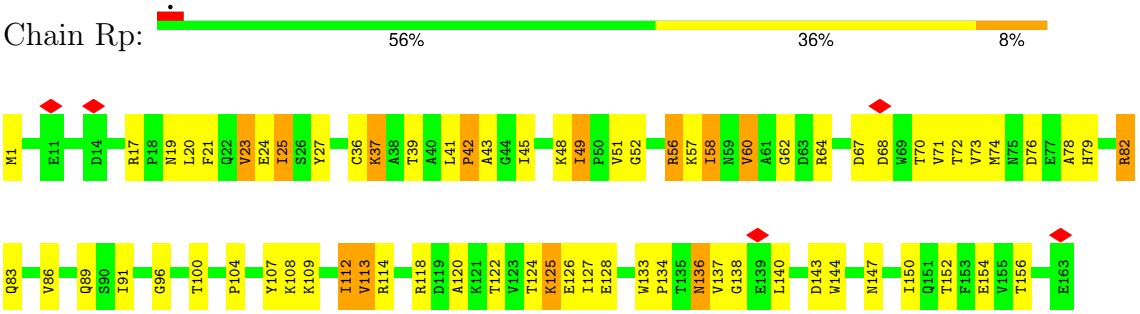
Chain Ro:





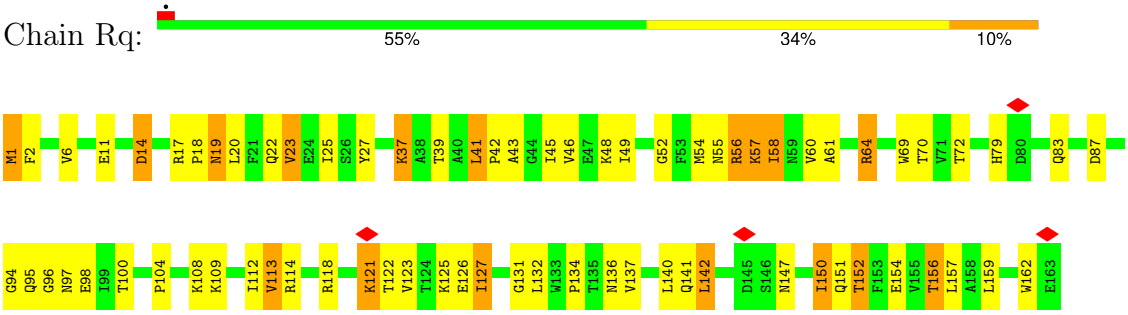
• Molecule 2: gp19, tail tube protein

Chain Rp:



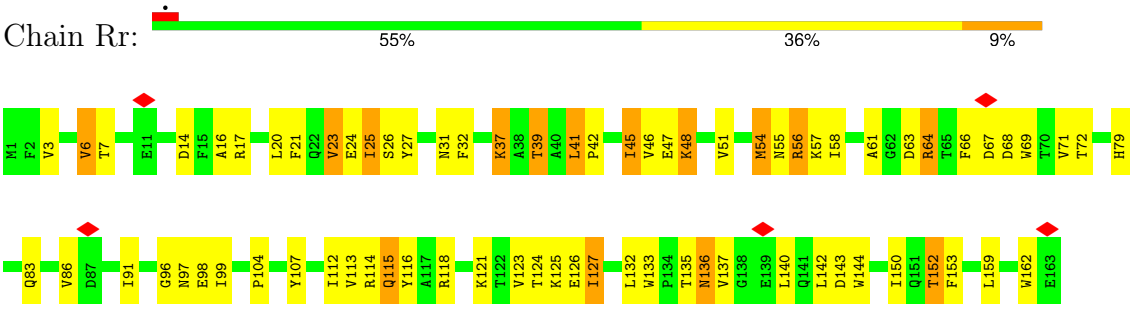
• Molecule 2: gp19, tail tube protein

Chain Rq:



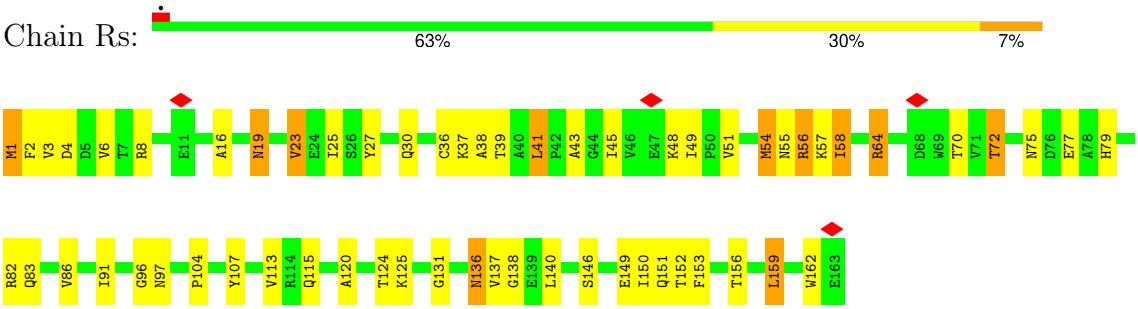
• Molecule 2: gp19, tail tube protein

Chain Rr:



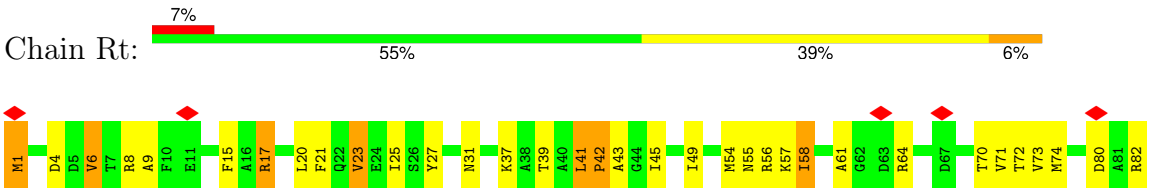
• Molecule 2: gp19, tail tube protein

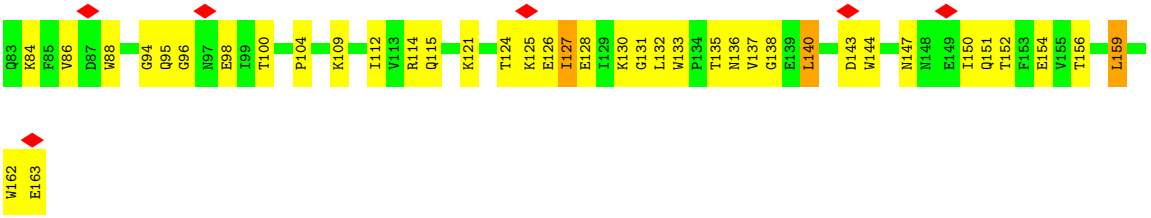
Chain Rs:



• Molecule 2: gp19, tail tube protein

Chain Rt:




Q83
K84
F85
V86
D87
W88
G94
Q95
G96
N97
E98
I99
T100
P104
K109
I112
V113
R114
Q115
K121
T124
K125
E126
I127
E128
I129
K130
G131
L132
W133
P134
T135
N136
V137
G138
E139
L140
D143
W144
N147
N148
E149
I150
Q151
T152
F153
E154
V155
T156
L159
W162
E163

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C3	Depositor
Number of particles used	113800	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	38	Depositor
Minimum defocus (nm)	600	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.096	Depositor
Minimum map value	-0.058	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.005	Depositor
Recommended contour level	0.016	Depositor
Map size (Å)	646.4, 646.4, 646.4	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.616, 1.616, 1.616	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	K0	0.26	0/5092	0.38	1/6928 (0.0%)
1	K1	0.37	0/5092	0.43	0/6928
1	K2	0.37	0/5092	0.42	0/6928
1	K3	0.36	0/5092	0.43	0/6928
1	K4	0.36	0/5092	0.41	1/6928 (0.0%)
1	K5	0.36	0/5092	0.41	0/6928
1	K6	0.36	0/5092	0.42	0/6928
1	K7	0.35	0/5092	0.40	0/6928
1	K8	0.34	0/5092	0.41	0/6928
1	K9	0.30	0/5092	0.39	0/6928
1	L0	0.26	0/5092	0.38	0/6928
1	L1	0.37	0/5092	0.44	0/6928
1	L2	0.37	0/5092	0.44	0/6928
1	L3	0.37	0/5092	0.43	0/6928
1	L4	0.36	0/5092	0.41	0/6928
1	L5	0.36	0/5092	0.43	1/6928 (0.0%)
1	L6	0.37	0/5092	0.43	0/6928
1	L7	0.35	0/5092	0.42	1/6928 (0.0%)
1	L8	0.33	0/5092	0.41	0/6928
1	L9	0.30	0/5092	0.41	0/6928
1	LQ	0.26	0/5092	0.37	0/6928
1	LR	0.31	0/5092	0.41	0/6928
1	LS	0.34	0/5092	0.42	0/6928
1	LU	0.36	0/5092	0.43	0/6928
1	LV	0.37	0/5092	0.42	1/6928 (0.0%)
1	LW	0.37	0/5092	0.43	0/6928
1	LX	0.37	0/5092	0.42	0/6928
1	LY	0.37	0/5092	0.41	0/6928
1	LZ	0.36	0/5092	0.43	0/6928
1	La	0.37	0/5092	0.43	0/6928
1	Lb	0.36	0/5092	0.42	0/6928
1	Lc	0.34	0/5092	0.41	0/6928
1	Ld	0.30	0/5092	0.40	0/6928
1	Le	0.26	0/5092	0.37	0/6928

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Lv	0.25	0/5092	0.37	0/6928
1	Lw	0.31	0/5092	0.41	0/6928
1	Lx	0.35	0/5092	0.42	0/6928
1	Lz	0.36	0/5092	0.42	0/6928
1	M0	0.26	0/5092	0.37	0/6928
1	M1	0.37	0/5092	0.43	0/6928
1	M2	0.37	0/5092	0.41	0/6928
1	M3	0.37	0/5092	0.42	0/6928
1	M4	0.36	0/5092	0.41	0/6928
1	M5	0.37	0/5092	0.42	0/6928
1	M6	0.37	0/5092	0.43	0/6928
1	M7	0.36	0/5092	0.41	0/6928
1	M8	0.34	0/5092	0.41	0/6928
1	M9	0.30	0/5092	0.40	1/6928 (0.0%)
1	MQ	0.26	0/5092	0.37	0/6928
1	MR	0.31	0/5092	0.40	0/6928
1	MS	0.34	0/5092	0.42	0/6928
1	MU	0.36	0/5092	0.42	0/6928
1	MV	0.37	0/5092	0.43	1/6928 (0.0%)
1	MW	0.37	0/5092	0.43	0/6928
1	MX	0.36	0/5092	0.42	0/6928
1	MY	0.37	0/5092	0.42	0/6928
1	MZ	0.36	0/5092	0.41	0/6928
1	Ma	0.37	0/5092	0.42	0/6928
1	Mb	0.36	0/5092	0.41	1/6928 (0.0%)
1	Mc	0.34	0/5092	0.40	0/6928
1	Md	0.30	0/5092	0.39	0/6928
1	Me	0.26	0/5092	0.37	0/6928
1	Mv	0.25	0/5092	0.37	0/6928
1	Mw	0.31	0/5092	0.40	0/6928
1	Mx	0.34	0/5092	0.41	0/6928
1	Mz	0.37	0/5092	0.42	0/6928
1	NV	0.25	0/5092	0.37	0/6928
1	NW	0.31	0/5092	0.39	0/6928
1	NX	0.34	0/5092	0.42	0/6928
1	NZ	0.36	0/5092	0.42	0/6928
1	Na	0.37	0/5092	0.43	0/6928
1	Nb	0.37	0/5092	0.43	0/6928
1	Nc	0.37	0/5092	0.41	0/6928
1	Nd	0.37	0/5092	0.42	0/6928
1	Ne	0.36	0/5092	0.42	0/6928
1	Nf	0.36	0/5092	0.42	0/6928
1	Ng	0.35	0/5092	0.42	0/6928

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Nh	0.33	0/5092	0.41	0/6928
1	Ni	0.31	0/5092	0.40	0/6928
1	Nj	0.26	0/5092	0.37	0/6928
1	Nv	0.25	0/5092	0.37	0/6928
1	Nw	0.31	0/5092	0.40	0/6928
1	Nx	0.34	0/5092	0.40	0/6928
1	Nz	0.37	0/5092	0.42	0/6928
2	OC	0.37	0/1333	0.45	0/1807
2	OD	0.43	0/1333	0.50	0/1807
2	OE	0.47	0/1333	0.50	0/1807
2	OF	0.47	0/1333	0.48	0/1807
2	OG	0.46	0/1333	0.52	0/1807
2	OH	0.45	0/1333	0.46	0/1807
2	OI	0.45	0/1333	0.50	0/1807
2	OJ	0.45	0/1333	0.52	0/1807
2	OK	0.45	0/1333	0.46	0/1807
2	OL	0.45	0/1333	0.47	0/1807
2	OM	0.43	0/1333	0.47	0/1807
2	ON	0.41	0/1333	0.51	1/1807 (0.1%)
2	OO	0.38	0/1333	0.43	0/1807
2	Oh	0.36	0/1333	0.39	0/1807
2	Oi	0.43	0/1333	0.49	0/1807
2	Oj	0.46	0/1333	0.48	0/1807
2	Ok	0.48	0/1333	0.52	0/1807
2	Ol	0.45	0/1333	0.48	0/1807
2	Om	0.45	0/1333	0.48	0/1807
2	On	0.45	0/1333	0.48	0/1807
2	Oo	0.44	0/1333	0.46	0/1807
2	Op	0.44	0/1333	0.46	0/1807
2	Oq	0.44	0/1333	0.49	0/1807
2	Or	0.44	0/1333	0.48	0/1807
2	Os	0.42	0/1333	0.48	0/1807
2	Ot	0.38	0/1333	0.43	0/1807
2	PC	0.37	0/1333	0.51	0/1807
2	PD	0.43	0/1333	0.48	0/1807
2	PE	0.46	0/1333	0.51	1/1807 (0.1%)
2	PF	0.48	0/1333	0.48	0/1807
2	PG	0.47	0/1333	0.54	0/1807
2	PH	0.45	0/1333	0.49	0/1807
2	PI	0.45	0/1333	0.48	0/1807
2	PJ	0.44	0/1333	0.48	0/1807
2	PK	0.45	0/1333	0.51	0/1807
2	PL	0.45	0/1333	0.48	0/1807

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	PM	0.44	0/1333	0.47	0/1807
2	PN	0.41	0/1333	0.49	0/1807
2	PO	0.38	0/1333	0.43	0/1807
2	Ph	0.37	0/1333	0.43	0/1807
2	Pi	0.43	0/1333	0.48	0/1807
2	Pj	0.46	0/1333	0.47	0/1807
2	Pk	0.47	0/1333	0.51	0/1807
2	Pl	0.46	0/1333	0.49	0/1807
2	Pm	0.45	0/1333	0.47	0/1807
2	Pn	0.44	0/1333	0.47	0/1807
2	Po	0.45	0/1333	0.49	0/1807
2	Pp	0.44	0/1333	0.47	0/1807
2	Pq	0.45	0/1333	0.48	0/1807
2	Pr	0.44	0/1333	0.47	0/1807
2	Ps	0.43	0/1333	0.50	0/1807
2	Pt	0.37	0/1333	0.45	0/1807
2	RC	0.37	0/1333	0.46	0/1807
2	RD	0.43	0/1333	0.48	0/1807
2	RE	0.47	0/1333	0.49	0/1807
2	RF	0.47	0/1333	0.48	0/1807
2	RG	0.45	0/1333	0.52	0/1807
2	RH	0.46	0/1333	0.48	0/1807
2	RI	0.45	0/1333	0.48	0/1807
2	RJ	0.44	0/1333	0.48	0/1807
2	RK	0.44	0/1333	0.46	0/1807
2	RL	0.45	0/1333	0.46	0/1807
2	RM	0.44	0/1333	0.45	0/1807
2	RN	0.42	0/1333	0.53	1/1807 (0.1%)
2	RO	0.37	0/1333	0.43	0/1807
2	RR	0.36	0/1333	0.45	0/1807
2	RS	0.44	0/1333	0.52	0/1807
2	RT	0.45	0/1333	0.47	0/1807
2	Rk	0.46	0/1333	0.52	0/1807
2	Rl	0.46	0/1333	0.49	0/1807
2	Rm	0.44	0/1333	0.46	0/1807
2	Rn	0.44	0/1333	0.46	0/1807
2	Ro	0.44	0/1333	0.48	0/1807
2	Rp	0.44	0/1333	0.49	0/1807
2	Rq	0.45	0/1333	0.48	0/1807
2	Rr	0.44	0/1333	0.49	0/1807
2	Rs	0.41	0/1333	0.46	0/1807
2	Rt	0.38	0/1333	0.45	0/1807
All	All	0.36	0/531702	0.42	11/722898 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	L1	0	2
1	LR	0	1
1	LX	0	1
1	Le	0	1
1	MZ	0	1
1	Nv	0	1
2	OG	0	1
2	OJ	0	1
2	OL	0	1
2	Oj	0	1
2	Om	0	1
2	Os	0	1
2	PD	0	1
2	PH	0	1
2	PK	0	1
2	Pi	0	1
2	Pq	0	1
2	Pt	0	1
2	RE	0	1
2	Rm	0	1
2	Ro	0	1
2	Rq	0	1
2	Rs	0	1
2	Rt	0	1
All	All	0	25

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	ON	138	GLY	N-CA-C	6.78	118.26	111.21
2	RN	138	GLY	N-CA-C	6.52	117.99	111.21
1	L5	482	ASP	N-CA-C	-6.35	106.75	114.75
1	LV	616	SER	N-CA-C	-6.12	106.46	114.04
1	M9	482	ASP	N-CA-C	-6.04	105.46	114.64
1	MV	482	ASP	N-CA-C	-5.87	107.35	114.75
1	Mb	13	THR	CB-CA-C	-5.69	109.02	115.79
1	K0	13	THR	CB-CA-C	-5.50	109.25	115.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	PE	25	ILE	N-CA-C	-5.25	107.71	112.96
1	L7	87	ASP	N-CA-C	-5.21	108.19	114.75
1	K4	87	ASP	N-CA-C	-5.18	107.98	114.56

There are no chirality outliers.

All (25) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	L1	572	LEU	Peptide
1	L1	650	ASP	Peptide
1	LR	572	LEU	Peptide
1	LX	333	GLY	Peptide
1	Le	572	LEU	Peptide
1	MZ	572	LEU	Peptide
1	Nv	572	LEU	Peptide
2	OG	41	LEU	Peptide
2	OJ	41	LEU	Peptide
2	OL	41	LEU	Peptide
2	Oj	41	LEU	Peptide
2	Om	41	LEU	Peptide
2	Os	41	LEU	Peptide
2	PD	41	LEU	Peptide
2	PH	41	LEU	Peptide
2	PK	119	ASP	Peptide
2	Pi	41	LEU	Peptide
2	Pq	41	LEU	Peptide
2	Pt	41	LEU	Peptide
2	RE	41	LEU	Peptide
2	Rm	41	LEU	Peptide
2	Ro	41	LEU	Peptide
2	Rq	41	LEU	Peptide
2	Rs	41	LEU	Peptide
2	Rt	41	LEU	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	K0	5000	0	4918	149	0
1	K1	5000	0	4918	138	0
1	K2	5000	0	4918	121	0
1	K3	5000	0	4918	115	0
1	K4	5000	0	4918	124	0
1	K5	5000	0	4918	125	0
1	K6	5000	0	4918	137	0
1	K7	5000	0	4918	142	0
1	K8	5000	0	4918	147	0
1	K9	5000	0	4918	136	0
1	L0	5000	0	4918	153	0
1	L1	5000	0	4918	140	0
1	L2	5000	0	4918	139	0
1	L3	5000	0	4918	132	0
1	L4	5000	0	4918	137	0
1	L5	5000	0	4918	119	0
1	L6	5000	0	4918	144	0
1	L7	5000	0	4918	132	0
1	L8	5000	0	4918	135	0
1	L9	5000	0	4918	125	0
1	LQ	5000	0	4918	150	0
1	LR	5000	0	4918	143	0
1	LS	5000	0	4918	137	0
1	LU	5000	0	4918	151	0
1	LV	5000	0	4918	135	0
1	LW	5000	0	4918	142	0
1	LX	5000	0	4918	129	0
1	LY	5000	0	4918	143	0
1	LZ	5000	0	4918	142	0
1	La	5000	0	4918	158	0
1	Lb	5000	0	4918	129	0
1	Lc	5000	0	4918	135	0
1	Ld	5000	0	4918	153	0
1	Le	5000	0	4918	138	0
1	Lv	5000	0	4918	156	0
1	Lw	5000	0	4918	156	0
1	Lx	5000	0	4918	139	0
1	Lz	5000	0	4918	129	0
1	M0	5000	0	4918	132	0
1	M1	5000	0	4918	139	0
1	M2	5000	0	4918	112	0
1	M3	5000	0	4918	117	0
1	M4	5000	0	4918	130	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	M5	5000	0	4918	132	0
1	M6	5000	0	4918	119	0
1	M7	5000	0	4918	141	0
1	M8	5000	0	4918	149	0
1	M9	5000	0	4918	128	0
1	MQ	5000	0	4918	156	0
1	MR	5000	0	4918	136	0
1	MS	5000	0	4918	136	0
1	MU	5000	0	4918	148	0
1	MV	5000	0	4918	121	0
1	MW	5000	0	4918	134	0
1	MX	5000	0	4918	138	0
1	MY	5000	0	4918	135	0
1	MZ	5000	0	4918	147	0
1	Ma	5000	0	4918	137	0
1	Mb	5000	0	4918	139	0
1	Mc	5000	0	4918	133	0
1	Md	5000	0	4918	148	0
1	Me	5000	0	4918	138	0
1	Mv	5000	0	4918	146	0
1	Mw	5000	0	4918	164	0
1	Mx	5000	0	4918	134	0
1	Mz	5000	0	4918	145	0
1	NV	5000	0	4918	152	0
1	NW	5000	0	4918	145	0
1	NX	5000	0	4918	148	0
1	NZ	5000	0	4918	157	0
1	Na	5000	0	4918	113	0
1	Nb	5000	0	4918	143	0
1	Nc	5000	0	4918	125	0
1	Nd	5000	0	4918	145	0
1	Ne	5000	0	4918	138	0
1	Nf	5000	0	4918	158	0
1	Ng	5000	0	4918	133	0
1	Nh	5000	0	4918	127	0
1	Ni	5000	0	4918	140	0
1	Nj	5000	0	4918	140	0
1	Nv	5000	0	4918	138	0
1	Nw	5000	0	4918	147	0
1	Nx	5000	0	4918	139	0
1	Nz	5000	0	4918	136	0
2	OC	1304	0	1255	41	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	OD	1304	0	1255	50	0
2	OE	1304	0	1255	49	0
2	OF	1304	0	1255	41	0
2	OG	1304	0	1255	49	0
2	OH	1304	0	1255	38	0
2	OI	1304	0	1255	38	0
2	OJ	1304	0	1255	49	0
2	OK	1304	0	1255	37	0
2	OL	1304	0	1255	34	0
2	OM	1304	0	1255	54	0
2	ON	1304	0	1255	38	0
2	OO	1304	0	1255	41	0
2	Oh	1304	0	1255	46	0
2	Oi	1304	0	1255	55	0
2	Oj	1304	0	1255	59	0
2	Ok	1304	0	1255	56	0
2	Ol	1304	0	1255	60	0
2	Om	1304	0	1255	40	0
2	On	1304	0	1255	41	0
2	Oo	1304	0	1255	47	0
2	Op	1304	0	1255	49	0
2	Oq	1304	0	1255	48	0
2	Or	1304	0	1255	49	0
2	Os	1304	0	1255	42	0
2	Ot	1304	0	1255	38	0
2	PC	1304	0	1255	39	0
2	PD	1304	0	1255	50	0
2	PE	1304	0	1255	44	0
2	PF	1304	0	1255	58	0
2	PG	1304	0	1255	45	0
2	PH	1304	0	1255	35	0
2	PI	1304	0	1255	40	0
2	PJ	1304	0	1255	52	0
2	PK	1304	0	1255	47	0
2	PL	1304	0	1255	43	0
2	PM	1304	0	1255	42	0
2	PN	1304	0	1255	40	0
2	PO	1304	0	1255	48	0
2	Ph	1304	0	1255	53	0
2	Pi	1304	0	1255	55	0
2	Pj	1304	0	1255	43	0
2	Pk	1304	0	1255	55	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Pl	1304	0	1255	55	0
2	Pm	1304	0	1255	33	0
2	Pn	1304	0	1255	42	0
2	Po	1304	0	1255	42	0
2	Pp	1304	0	1255	45	0
2	Pq	1304	0	1255	52	0
2	Pr	1304	0	1255	50	0
2	Ps	1304	0	1255	41	0
2	Pt	1304	0	1255	46	0
2	RC	1304	0	1255	38	0
2	RD	1304	0	1255	60	0
2	RE	1304	0	1255	51	0
2	RF	1304	0	1255	53	0
2	RG	1304	0	1255	52	0
2	RH	1304	0	1255	36	0
2	RI	1304	0	1255	47	0
2	RJ	1304	0	1255	47	0
2	RK	1304	0	1255	42	0
2	RL	1304	0	1255	49	0
2	RM	1304	0	1255	52	0
2	RN	1304	0	1255	48	0
2	RO	1304	0	1255	44	0
2	RR	1304	0	1255	41	0
2	RS	1304	0	1255	52	0
2	RT	1304	0	1255	51	0
2	Rk	1304	0	1255	47	0
2	Rl	1304	0	1255	48	0
2	Rm	1304	0	1255	39	0
2	Rn	1304	0	1255	45	0
2	Ro	1304	0	1255	45	0
2	Rp	1304	0	1255	46	0
2	Rq	1304	0	1255	52	0
2	Rr	1304	0	1255	53	0
2	Rs	1304	0	1255	34	0
2	Rt	1304	0	1255	46	0
All	All	521712	0	511002	13624	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 13.

All (13624) 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)
1:Nb:400:ARG:NH1	1:Nb:403:CYS:SG	2.46	0.89
1:LW:400:ARG:NH1	1:LW:403:CYS:SG	2.45	0.88
1:LS:641:ASN:HB2	1:LU:626:THR:HG23	1.56	0.87
1:L1:444:SER:HG	1:L1:543:SER:HG	1.21	0.87
1:MV:617:VAL:HG13	1:MV:622:GLU:HB2	1.57	0.87
1:K8:110:TYR:H	1:K8:138:GLY:HA3	1.40	0.86
1:LU:490:SER:O	1:LU:496:ARG:NH1	2.09	0.86
1:Lc:490:SER:O	1:Lc:496:ARG:NH1	2.10	0.85
1:Lz:400:ARG:NH1	1:Lz:403:CYS:SG	2.48	0.85
1:Lz:110:TYR:H	1:Lz:138:GLY:HA3	1.42	0.85
2:Ok:96:GLY:O	2:Rk:56:ARG:NH2	2.10	0.84
1:M8:110:TYR:H	1:M8:138:GLY:HA3	1.39	0.84
2:OI:96:GLY:O	2:RI:56:ARG:NH2	2.10	0.84
1:M5:400:ARG:NH1	1:M5:403:CYS:SG	2.50	0.84
1:Mx:641:ASN:HB2	1:Mz:626:THR:HG23	1.58	0.84
1:Lc:400:ARG:NH1	1:Lc:403:CYS:SG	2.50	0.84
1:K1:566:ARG:HA	1:K1:569:LYS:HD2	1.60	0.83
1:K8:400:ARG:NH1	1:K8:403:CYS:SG	2.50	0.83
2:Pp:82:ARG:HH12	2:Pp:138:GLY:HA2	1.43	0.83
1:MU:490:SER:O	1:MU:496:ARG:NH1	2.12	0.83
2:PE:54:MET:HE3	2:Pk:20:LEU:HA	1.60	0.83
2:Or:56:ARG:NH2	2:Pr:96:GLY:O	2.12	0.83
2:Ol:56:ARG:NH2	2:Pl:96:GLY:O	2.12	0.83
1:M8:400:ARG:NH1	1:M8:403:CYS:SG	2.52	0.83
1:Nz:400:ARG:NH1	1:Nz:403:CYS:SG	2.52	0.82
1:K8:444:SER:HG	1:K8:543:SER:HG	1.18	0.82
1:K5:400:ARG:NH1	1:K5:403:CYS:SG	2.51	0.82
1:M9:423:VAL:HG21	1:M9:513:GLN:HB3	1.60	0.82
1:MU:198:ILE:HD11	1:MU:225:LEU:HD11	1.62	0.82
1:Mb:378:CYS:HG	1:Mb:454:TYR:HH	1.23	0.82
1:Mz:400:ARG:NH1	1:Mz:403:CYS:SG	2.53	0.82
2:On:56:ARG:NH2	2:Pn:96:GLY:O	2.12	0.82
2:PK:62:GLY:O	2:PL:118:ARG:NH2	2.13	0.82
2:Pr:56:ARG:NH2	2:Rr:96:GLY:O	2.13	0.81
1:Mb:110:TYR:H	1:Mb:138:GLY:HA3	1.45	0.81
1:L5:400:ARG:NH1	1:L5:403:CYS:SG	2.53	0.81
2:PF:56:ARG:NH2	2:RF:96:GLY:O	2.13	0.81
1:M1:571:ARG:NH2	1:M1:587:GLU:OE1	2.14	0.81
1:NZ:490:SER:O	1:NZ:496:ARG:NH1	2.13	0.81
1:Nv:400:ARG:NH1	1:Nv:403:CYS:SG	2.53	0.81
1:Nc:228:GLY:HA2	1:Nc:345:SER:HB3	1.63	0.81
1:M8:378:CYS:HG	1:M8:454:TYR:HH	1.26	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PE:56:ARG:NH2	2:RE:96:GLY:O	2.15	0.80
1:LR:209:ASP:OD1	1:LR:209:ASP:N	2.15	0.80
1:Ma:400:ARG:NH1	1:Ma:403:CYS:SG	2.55	0.80
1:L8:110:TYR:H	1:L8:138:GLY:HA3	1.47	0.80
2:Oh:82:ARG:HH12	2:Oh:138:GLY:HA2	1.45	0.80
2:Pj:25:ILE:O	2:Pj:27:TYR:N	2.14	0.80
1:MR:549:ASP:OD2	1:Mw:271:TYR:OH	2.00	0.80
1:K1:490:SER:O	1:K1:496:ARG:NH1	2.15	0.80
2:Ok:56:ARG:NH2	2:Pk:96:GLY:O	2.15	0.79
2:Oq:39:THR:HG22	2:Oq:71:VAL:HG13	1.64	0.79
1:K2:110:TYR:H	1:K2:138:GLY:HA3	1.47	0.79
1:L0:490:SER:O	1:L0:496:ARG:NH1	2.16	0.79
1:M8:490:SER:O	1:M8:496:ARG:NH1	2.15	0.79
2:OH:25:ILE:O	2:OH:27:TYR:N	2.16	0.79
1:MR:400:ARG:NH1	1:MR:403:CYS:SG	2.55	0.79
1:Mc:487:THR:HG21	1:Mc:559:MET:HE3	1.65	0.79
1:Nw:209:ASP:OD1	1:Nw:209:ASP:N	2.16	0.79
2:Ol:96:GLY:O	2:Rl:56:ARG:NH2	2.16	0.79
2:Pl:22:GLN:HB2	2:Pl:116:TYR:HE2	1.45	0.79
1:K4:455:LYS:HD2	1:K4:502:VAL:HG22	1.65	0.79
1:M9:571:ARG:NH2	1:M9:587:GLU:OE1	2.15	0.79
1:NW:549:ASP:OD2	1:Nw:271:TYR:OH	1.99	0.79
1:M0:490:SER:O	1:M0:496:ARG:NH1	2.16	0.79
1:Mc:641:ASN:HB2	1:Md:626:THR:HG23	1.64	0.79
2:Pk:56:ARG:NH2	2:Rk:96:GLY:O	2.14	0.79
1:Mx:490:SER:O	1:Mx:496:ARG:NH1	2.16	0.78
1:NZ:571:ARG:NH2	1:NZ:587:GLU:OE1	2.16	0.78
1:L3:490:SER:O	1:L3:496:ARG:NH1	2.16	0.78
1:Mb:430:ARG:NH2	1:Mb:443:ILE:O	2.16	0.78
1:M0:560:LEU:HD21	1:M0:601:ILE:HD11	1.65	0.78
1:K9:490:SER:O	1:K9:496:ARG:NH1	2.16	0.78
1:MX:490:SER:O	1:MX:496:ARG:NH1	2.17	0.78
1:Nx:490:SER:O	1:Nx:496:ARG:NH1	2.16	0.78
1:K0:400:ARG:NH1	1:K0:403:CYS:SG	2.57	0.78
1:Lx:490:SER:O	1:Lx:496:ARG:NH1	2.17	0.78
1:NW:639:THR:HB	1:NX:624:VAL:HG12	1.65	0.78
1:Nc:490:SER:O	1:Nc:496:ARG:NH1	2.16	0.78
2:Oi:19:ASN:N	2:Oi:19:ASN:OD1	2.16	0.78
1:La:400:ARG:NH1	1:La:403:CYS:SG	2.55	0.78
1:NZ:540:THR:HG22	1:NZ:551:ILE:HG23	1.65	0.78
1:LR:444:SER:HG	1:LR:543:SER:HG	1.29	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RD:19:ASN:OD1	2:RD:19:ASN:N	2.17	0.77
1:LV:110:TYR:H	1:LV:138:GLY:HA3	1.48	0.77
1:LY:256:PRO:HG2	1:LY:339:THR:H	1.49	0.77
1:Lv:400:ARG:NH1	1:Lv:403:CYS:SG	2.57	0.77
1:Mw:561:LYS:NZ	1:NV:12:GLU:OE2	2.17	0.77
2:Om:96:GLY:O	2:Rm:56:ARG:NH2	2.18	0.77
1:M6:110:TYR:H	1:M6:138:GLY:HA3	1.50	0.77
1:Md:459:ASP:OD2	1:Md:466:ARG:NH1	2.18	0.77
1:Mv:400:ARG:NH1	1:Mv:403:CYS:SG	2.56	0.77
1:Nj:440:ASN:HD22	1:Nj:442:ASN:HB2	1.50	0.77
1:Lv:57:PRO:HB3	1:Lv:62:ALA:HA	1.67	0.77
1:M5:455:LYS:NZ	1:M5:457:GLN:OE1	2.17	0.77
1:MW:400:ARG:NH1	1:MW:403:CYS:SG	2.57	0.77
1:Ma:444:SER:HG	1:Ma:543:SER:HG	1.30	0.77
2:On:96:GLY:O	2:Rn:56:ARG:NH2	2.16	0.77
2:PD:54:MET:HE3	2:Pj:20:LEU:HA	1.65	0.77
1:L9:110:TYR:H	1:L9:138:GLY:HA3	1.48	0.77
1:M0:228:GLY:HA2	1:M0:345:SER:HB3	1.65	0.77
1:NV:379:ALA:HA	1:NV:411:ARG:HB2	1.66	0.77
1:Nc:432:ALA:HB2	1:Nc:440:ASN:HD22	1.49	0.77
1:Ld:459:ASP:OD2	1:Ld:466:ARG:NH1	2.17	0.77
2:Oo:96:GLY:O	2:Ro:56:ARG:NH2	2.18	0.77
2:RT:25:ILE:O	2:RT:27:TYR:N	2.18	0.77
1:Le:455:LYS:NZ	1:Le:501:ASN:O	2.18	0.77
1:MY:492:ALA:HB2	1:MY:535:LEU:HD13	1.65	0.77
1:NZ:432:ALA:HB2	1:NZ:440:ASN:HD22	1.50	0.77
2:Op:96:GLY:O	2:Rp:56:ARG:NH2	2.18	0.77
2:RL:162:TRP:O	2:Rq:95:GLN:NE2	2.18	0.77
1:K3:490:SER:O	1:K3:496:ARG:NH1	2.18	0.76
1:Nf:368:VAL:O	1:Nf:400:ARG:NH2	2.18	0.76
2:Pj:82:ARG:HH12	2:Pj:138:GLY:HA2	1.50	0.76
1:Nw:560:LEU:HD21	1:Nw:601:ILE:HD11	1.67	0.76
1:Nz:424:ASP:O	1:Nz:428:ASN:ND2	2.18	0.76
1:L6:549:ASP:OD2	1:Ma:271:TYR:OH	2.03	0.76
1:LU:612:ASN:HB3	1:LU:624:VAL:HG23	1.67	0.76
1:Lx:571:ARG:NH2	1:Lx:587:GLU:OE1	2.18	0.76
1:Nj:378:CYS:HB2	1:Nj:386:ALA:HB1	1.66	0.76
2:RE:54:MET:HE3	2:Rk:20:LEU:HA	1.68	0.76
2:RK:17:ARG:HG3	2:RK:20:LEU:HD12	1.66	0.76
1:K5:235:GLU:OE2	1:K5:261:ARG:NH2	2.19	0.76
1:K7:239:VAL:HG23	1:K7:280:ALA:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L0:166:ASN:OD1	1:L0:166:ASN:N	2.17	0.76
1:L3:459:ASP:OD2	1:L3:466:ARG:NH1	2.17	0.76
1:M3:211:GLN:OE1	1:M3:329:ASN:ND2	2.18	0.76
1:NW:400:ARG:NH1	1:NW:403:CYS:SG	2.58	0.76
1:K6:571:ARG:NH2	1:K6:587:GLU:OE1	2.18	0.76
1:L6:459:ASP:OD2	1:L6:466:ARG:NH1	2.17	0.76
1:Mx:379:ALA:HA	1:Mx:411:ARG:HB2	1.67	0.76
2:OC:54:MET:HE3	2:Oi:20:LEU:HA	1.68	0.76
2:OF:56:ARG:NH2	2:PF:96:GLY:O	2.17	0.76
1:K8:130:LYS:HZ3	1:K8:132:THR:HA	1.51	0.76
1:LQ:12:GLU:OE2	1:Nw:561:LYS:NZ	2.18	0.76
2:OF:4:ASP:OD1	2:PE:97:ASN:ND2	2.18	0.76
2:OL:96:GLY:O	2:RL:56:ARG:NH2	2.18	0.76
1:L6:110:TYR:H	1:L6:138:GLY:HA3	1.49	0.76
1:M9:93:SER:HB3	1:M9:191:SER:HB2	1.68	0.76
2:OE:20:LEU:HA	2:RS:54:MET:HE3	1.68	0.76
1:MQ:379:ALA:HA	1:MQ:411:ARG:HB2	1.68	0.76
1:Md:571:ARG:NH2	1:Md:587:GLU:OE1	2.19	0.76
1:Nf:400:ARG:NH1	1:Nf:403:CYS:SG	2.59	0.76
1:K3:12:GLU:OE2	1:Nd:561:LYS:NZ	2.19	0.76
1:L9:490:SER:O	1:L9:496:ARG:NH1	2.18	0.76
1:Nd:490:SER:O	1:Nd:496:ARG:NH1	2.18	0.76
1:LQ:379:ALA:HA	1:LQ:411:ARG:HB2	1.65	0.76
1:LU:571:ARG:NH2	1:LU:587:GLU:OE1	2.19	0.76
2:Op:17:ARG:HG3	2:Op:20:LEU:HD12	1.68	0.76
1:LU:459:ASP:OD2	1:LU:466:ARG:NH1	2.19	0.75
1:Lw:209:ASP:N	1:Lw:209:ASP:OD1	2.18	0.75
1:LV:135:ASP:HB3	1:LV:139:LYS:HB2	1.66	0.75
1:MV:110:TYR:H	1:MV:138:GLY:HA3	1.48	0.75
1:K0:490:SER:O	1:K0:496:ARG:NH1	2.19	0.75
1:Mv:455:LYS:NZ	1:Mv:457:GLN:OE1	2.19	0.75
1:NX:617:VAL:HG23	1:NX:620:ARG:HH21	1.50	0.75
2:Op:56:ARG:NH2	2:Pp:96:GLY:O	2.18	0.75
1:LV:617:VAL:HG13	1:LV:622:GLU:HB2	1.69	0.75
2:OE:54:MET:HE3	2:Ok:20:LEU:HA	1.69	0.75
1:L4:444:SER:HG	1:L4:543:SER:HG	1.25	0.75
1:Ne:110:TYR:H	1:Ne:138:GLY:HA3	1.52	0.75
1:Ng:432:ALA:HB2	1:Ng:440:ASN:HD22	1.51	0.75
2:Rl:19:ASN:OD1	2:Rl:19:ASN:N	2.19	0.75
1:K8:549:ASP:OD2	1:Lc:271:TYR:OH	2.05	0.75
1:L6:118:VAL:HB	1:L6:126:GLU:HB3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LZ:488:TRP:O	1:LZ:552:ASN:ND2	2.20	0.75
1:M3:12:GLU:OE2	1:MY:561:LYS:NZ	2.19	0.75
1:LR:57:PRO:HB3	1:LR:62:ALA:HA	1.69	0.75
1:M2:271:TYR:OH	1:MW:549:ASP:OD2	2.02	0.75
2:PK:56:ARG:NH2	2:RK:96:GLY:O	2.19	0.75
2:OM:96:GLY:O	2:RM:56:ARG:NH2	2.19	0.75
2:PI:56:ARG:NH2	2:RI:96:GLY:O	2.20	0.75
2:Rp:62:GLY:O	2:Rq:118:ARG:NH2	2.19	0.75
1:L9:571:ARG:NH2	1:L9:587:GLU:OE1	2.20	0.74
1:LW:110:TYR:H	1:LW:138:GLY:HA3	1.50	0.74
1:LZ:400:ARG:NH1	1:LZ:403:CYS:SG	2.59	0.74
1:La:135:ASP:HB3	1:La:139:LYS:HB2	1.69	0.74
1:Nj:490:SER:O	1:Nj:496:ARG:NH1	2.20	0.74
2:On:23:VAL:HG11	2:On:39:THR:HG21	1.69	0.74
1:L8:490:SER:O	1:L8:496:ARG:NH1	2.20	0.74
1:M7:378:CYS:HG	1:M7:454:TYR:HH	1.33	0.74
1:M5:66:MET:HG2	1:M5:468:VAL:HG21	1.69	0.74
1:Mx:130:LYS:HZ3	1:Mx:132:THR:HA	1.51	0.74
1:NW:209:ASP:OD1	1:NW:209:ASP:N	2.18	0.74
1:Ng:566:ARG:HA	1:Ng:569:LYS:HD2	1.68	0.74
2:Or:96:GLY:O	2:Rr:56:ARG:NH2	2.19	0.74
1:LW:411:ARG:O	1:LW:415:VAL:HB	1.87	0.74
1:M8:130:LYS:HZ3	1:M8:132:THR:HA	1.52	0.74
1:LR:400:ARG:NH1	1:LR:403:CYS:SG	2.60	0.74
1:LS:264:THR:O	1:LS:266:LYS:N	2.20	0.74
1:Lz:371:GLN:OE1	1:Lz:562:THR:OG1	2.05	0.74
2:Oo:25:ILE:O	2:Oo:27:TYR:N	2.19	0.74
2:Rt:98:GLU:OE1	2:Rt:98:GLU:N	2.20	0.74
1:MV:571:ARG:NH2	1:MV:587:GLU:OE1	2.20	0.74
1:Md:135:ASP:HB3	1:Md:139:LYS:HB2	1.70	0.74
1:Mw:209:ASP:OD1	1:Mw:209:ASP:N	2.17	0.74
2:OL:56:ARG:NH2	2:PL:96:GLY:O	2.19	0.74
2:Pq:56:ARG:NH2	2:Rq:96:GLY:O	2.19	0.74
1:M3:490:SER:O	1:M3:496:ARG:NH1	2.21	0.74
1:Nw:272:GLY:O	1:Nw:274:GLN:NE2	2.21	0.74
1:K9:430:ARG:HG3	1:K9:522:ILE:HD11	1.69	0.74
1:MY:451:ASP:OD1	1:MY:452:GLY:N	2.20	0.74
1:Nw:427:VAL:HG13	1:Nw:520:GLU:HG3	1.69	0.74
2:Pn:63:ASP:OD2	2:RJ:147:ASN:ND2	2.20	0.74
1:L2:166:ASN:OD1	1:L2:166:ASN:N	2.20	0.74
1:Na:110:TYR:H	1:Na:138:GLY:HA3	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L2:490:SER:O	1:L2:496:ARG:NH1	2.21	0.74
1:Ne:400:ARG:NH1	1:Ne:403:CYS:SG	2.60	0.74
1:LV:57:PRO:HB3	1:LV:62:ALA:HA	1.69	0.73
1:Lz:264:THR:O	1:Lz:266:LYS:N	2.21	0.73
1:MX:135:ASP:HB3	1:MX:139:LYS:HB2	1.70	0.73
1:L8:400:ARG:NH1	1:L8:403:CYS:SG	2.60	0.73
1:L8:432:ALA:HB2	1:L8:440:ASN:HD22	1.53	0.73
1:LQ:264:THR:O	1:LQ:266:LYS:N	2.21	0.73
1:LZ:110:TYR:H	1:LZ:138:GLY:HA3	1.53	0.73
1:Ng:110:TYR:H	1:Ng:138:GLY:HA3	1.51	0.73
2:OC:56:ARG:NH2	2:PC:96:GLY:O	2.20	0.73
2:OM:82:ARG:HH12	2:OM:138:GLY:HA2	1.52	0.73
1:K8:91:ASN:OD1	1:K8:91:ASN:N	2.22	0.73
1:M6:202:GLU:OE1	1:M6:203:ALA:N	2.22	0.73
1:Ma:368:VAL:O	1:Ma:400:ARG:NH2	2.21	0.73
1:Mv:33:PHE:HA	1:Mv:61:THR:HG23	1.70	0.73
1:Nd:488:TRP:HB3	1:Nd:556:LEU:HD13	1.68	0.73
1:L3:486:GLN:NE2	2:OI:11:GLU:OE1	2.22	0.73
1:MY:459:ASP:OD2	1:MY:466:ARG:NH1	2.21	0.73
1:Na:256:PRO:HG2	1:Na:339:THR:H	1.51	0.73
2:Oo:56:ARG:NH2	2:Po:96:GLY:O	2.22	0.73
1:L2:566:ARG:HA	1:L2:569:LYS:HD2	1.71	0.73
1:L6:455:LYS:HD2	1:L6:502:VAL:HG22	1.71	0.73
1:Lb:391:LYS:NZ	1:Lb:440:ASN:O	2.21	0.73
1:M2:490:SER:O	1:M2:496:ARG:NH1	2.21	0.73
1:Mw:444:SER:HG	1:Mw:543:SER:HG	1.34	0.73
1:Ni:246:LYS:HB2	1:Ni:250:ALA:HB2	1.70	0.73
2:PL:56:ARG:NH2	2:RL:96:GLY:O	2.22	0.73
2:Rp:70:THR:HG22	2:Rp:156:THR:HG22	1.70	0.73
1:Ld:571:ARG:NH2	1:Ld:587:GLU:OE1	2.21	0.73
2:PI:49:ILE:HD11	2:Po:150:ILE:HG22	1.71	0.73
1:L3:612:ASN:HB3	1:L3:624:VAL:HG23	1.70	0.73
1:LX:488:TRP:O	1:LX:552:ASN:ND2	2.22	0.73
1:NX:495:ASN:OD1	1:NX:495:ASN:N	2.22	0.73
2:OO:35:GLN:NE2	2:Rt:9:ALA:O	2.20	0.73
1:K6:12:GLU:OE2	1:Ng:561:LYS:NZ	2.18	0.73
1:K7:455:LYS:NZ	1:K7:473:ASP:OD1	2.22	0.73
1:L9:423:VAL:HG21	1:L9:513:GLN:HB3	1.70	0.73
1:LX:639:THR:HB	1:LY:624:VAL:HG12	1.70	0.73
1:NW:560:LEU:HD21	1:NW:601:ILE:HD11	1.71	0.73
1:Ni:135:ASP:HB3	1:Ni:139:LYS:HB2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PM:140:LEU:HD13	2:PM:153:PHE:HB3	1.70	0.73
1:K0:560:LEU:HD21	1:K0:601:ILE:HD11	1.71	0.73
1:K1:264:THR:O	1:K1:266:LYS:N	2.21	0.73
1:L5:488:TRP:O	1:L5:552:ASN:ND2	2.21	0.73
1:LR:488:TRP:O	1:LR:552:ASN:ND2	2.22	0.73
1:LV:82:ARG:NH2	1:LV:227:PRO:O	2.20	0.73
1:Le:256:PRO:HG2	1:Le:339:THR:H	1.54	0.73
1:Lv:206:THR:HA	1:Lv:211:GLN:HE21	1.53	0.73
1:Lx:32:LYS:NZ	1:Lx:60:GLU:OE2	2.22	0.73
1:M2:205:MET:O	1:M2:211:GLN:NE2	2.21	0.73
1:M8:444:SER:HG	1:M8:543:SER:HG	1.28	0.73
1:Mz:264:THR:O	1:Mz:266:LYS:N	2.22	0.73
1:Ng:26:THR:HA	1:Ng:77:ASP:O	1.89	0.73
2:PE:62:GLY:O	2:PF:118:ARG:NH2	2.21	0.73
2:Rp:72:THR:HG22	2:Rp:154:GLU:HG3	1.70	0.73
1:K3:514:ARG:NH1	1:K4:366:GLU:OE2	2.22	0.73
1:K4:33:PHE:HA	1:K4:61:THR:HG23	1.71	0.73
1:LU:400:ARG:NH1	1:LU:403:CYS:SG	2.61	0.73
1:M1:490:SER:O	1:M1:496:ARG:NH1	2.21	0.73
1:Ne:166:ASN:OD1	1:Ne:166:ASN:N	2.22	0.73
2:ON:19:ASN:OD1	2:ON:19:ASN:N	2.21	0.73
2:Pp:46:VAL:HG22	2:Pp:64:ARG:HB3	1.69	0.73
1:K6:110:TYR:H	1:K6:138:GLY:HA3	1.53	0.72
1:Le:199:GLU:OE1	1:Le:200:ASN:ND2	2.22	0.72
2:Oj:96:GLY:O	2:RT:56:ARG:NH2	2.21	0.72
1:L6:32:LYS:HE2	1:L6:350:VAL:HB	1.71	0.72
1:L8:246:LYS:HB2	1:L8:250:ALA:HB2	1.72	0.72
1:MU:549:ASP:OD2	1:Mz:271:TYR:OH	2.05	0.72
1:Nh:487:THR:HG21	1:Nh:559:MET:HE3	1.69	0.72
2:Om:56:ARG:NH2	2:Pm:96:GLY:O	2.21	0.72
2:PI:25:ILE:O	2:PI:27:TYR:N	2.22	0.72
2:Rl:23:VAL:HG11	2:Rl:39:THR:HG21	1.70	0.72
1:K9:427:VAL:O	1:K9:431:THR:OG1	2.07	0.72
1:L0:400:ARG:NH1	1:L0:403:CYS:SG	2.62	0.72
1:LY:459:ASP:OD2	1:LY:466:ARG:NH1	2.21	0.72
1:MS:478:CYS:O	1:MS:555:ARG:NH1	2.21	0.72
1:Mc:400:ARG:NH1	1:Mc:403:CYS:SG	2.62	0.72
1:Nd:455:LYS:HD2	1:Nd:457:GLN:HB2	1.70	0.72
1:Nf:486:GLN:NE2	2:Pq:11:GLU:OE1	2.21	0.72
2:Rl:14:ASP:OD1	2:Rl:17:ARG:NH2	2.22	0.72
1:L1:264:THR:O	1:L1:266:LYS:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RI:49:ILE:HD11	2:Ro:150:ILE:HG22	1.70	0.72
2:RK:62:GLY:O	2:RL:118:ARG:NH2	2.21	0.72
1:M9:110:TYR:H	1:M9:138:GLY:HA3	1.53	0.72
2:RO:23:VAL:HG11	2:RO:39:THR:HG21	1.71	0.72
1:Lx:166:ASN:OD1	1:Lx:166:ASN:N	2.19	0.72
1:NW:379:ALA:HA	1:NW:411:ARG:HB2	1.71	0.72
1:NX:490:SER:O	1:NX:496:ARG:NH1	2.21	0.72
1:Nb:455:LYS:NZ	1:Nb:457:GLN:OE1	2.23	0.72
1:Nz:264:THR:O	1:Nz:266:LYS:N	2.23	0.72
2:Ol:22:GLN:HB2	2:Ol:116:TYR:HE2	1.53	0.72
1:K0:228:GLY:HA2	1:K0:345:SER:HB3	1.72	0.72
1:K0:400:ARG:NH1	1:K0:402:ASP:OD1	2.22	0.72
1:K1:486:GLN:NE2	2:RG:11:GLU:OE1	2.23	0.72
1:K3:202:GLU:OE1	1:K3:203:ALA:N	2.22	0.72
1:K8:131:ILE:HD13	1:K8:140:ILE:HG21	1.71	0.72
1:Ld:400:ARG:NH1	1:Ld:403:CYS:SG	2.61	0.72
1:NZ:400:ARG:NH1	1:NZ:403:CYS:SG	2.63	0.72
1:Nb:639:THR:HB	1:Nc:624:VAL:HG12	1.72	0.72
2:OK:96:GLY:O	2:RK:56:ARG:NH2	2.21	0.72
2:PC:72:THR:HG22	2:PC:154:GLU:HG3	1.72	0.72
2:RI:17:ARG:HG3	2:RI:20:LEU:HD12	1.72	0.72
1:K8:432:ALA:HB2	1:K8:440:ASN:HD22	1.55	0.72
1:L1:459:ASP:OD2	1:L1:466:ARG:NH1	2.23	0.72
1:L8:130:LYS:HZ3	1:L8:132:THR:HG22	1.55	0.72
1:M3:628:TYR:HH	1:Nb:17:SER:HG	1.30	0.72
1:MR:264:THR:O	1:MR:266:LYS:N	2.23	0.72
1:Ne:488:TRP:O	1:Ne:552:ASN:ND2	2.23	0.72
1:Nv:70:ASN:OD1	1:Nv:457:GLN:NE2	2.22	0.72
2:OJ:151:GLN:OE1	2:Ro:115:GLN:NE2	2.23	0.72
2:PG:19:ASN:OD1	2:PG:19:ASN:N	2.22	0.72
1:L1:486:GLN:NE2	2:OG:11:GLU:OE1	2.22	0.72
1:M2:116:ILE:HG12	1:M2:171:ILE:HG12	1.71	0.72
1:NZ:264:THR:O	1:NZ:266:LYS:N	2.23	0.72
2:OL:114:ARG:HG2	2:OL:126:GLU:HG3	1.72	0.72
1:K4:560:LEU:HD21	1:K4:601:ILE:HD11	1.71	0.72
1:L7:239:VAL:HG23	1:L7:280:ALA:HB3	1.71	0.72
1:L9:211:GLN:NE2	1:L9:329:ASN:OD1	2.23	0.72
1:LZ:432:ALA:HB2	1:LZ:440:ASN:HD22	1.54	0.72
1:LZ:490:SER:O	1:LZ:496:ARG:NH1	2.22	0.72
2:OH:70:THR:HG22	2:OH:156:THR:HG22	1.72	0.72
2:Pn:82:ARG:HH12	2:Pn:138:GLY:HA2	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L2:264:THR:O	1:L2:266:LYS:N	2.23	0.71
1:LX:135:ASP:HB3	1:LX:139:LYS:HB2	1.72	0.71
1:Lv:298:LYS:NZ	1:Lv:299:ARG:O	2.22	0.71
1:M3:459:ASP:OD2	1:M3:466:ARG:NH1	2.23	0.71
1:M8:246:LYS:HB2	1:M8:250:ALA:HB2	1.72	0.71
1:Mc:379:ALA:HA	1:Mc:411:ARG:HB2	1.72	0.71
2:OO:23:VAL:HG11	2:OO:39:THR:HG21	1.73	0.71
2:Os:19:ASN:OD1	2:Os:19:ASN:N	2.22	0.71
1:K3:486:GLN:NE2	2:RI:11:GLU:OE1	2.23	0.71
1:M0:33:PHE:HA	1:M0:61:THR:HG23	1.71	0.71
1:M3:256:PRO:HG2	1:M3:339:THR:H	1.56	0.71
1:M3:368:VAL:O	1:M3:400:ARG:NH2	2.22	0.71
1:M6:432:ALA:HB2	1:M6:440:ASN:HD22	1.55	0.71
1:M6:571:ARG:NH2	1:M6:587:GLU:OE1	2.22	0.71
1:MS:368:VAL:O	1:MS:400:ARG:NH2	2.24	0.71
1:NZ:110:TYR:H	1:NZ:138:GLY:HA3	1.55	0.71
1:Nw:400:ARG:NH1	1:Nw:403:CYS:SG	2.62	0.71
2:OD:97:ASN:HB3	2:RE:2:PHE:HD2	1.55	0.71
2:OO:96:GLY:O	2:RO:56:ARG:NH2	2.22	0.71
2:Oj:19:ASN:OD1	2:Oj:19:ASN:N	2.22	0.71
1:K2:490:SER:O	1:K2:496:ARG:NH1	2.22	0.71
1:LS:561:LYS:HB3	1:Lw:10:LEU:HD13	1.71	0.71
1:MQ:264:THR:O	1:MQ:266:LYS:N	2.24	0.71
1:NV:456:TYR:HB3	1:NV:503:ILE:HG23	1.72	0.71
1:Nd:33:PHE:HA	1:Nd:61:THR:HG23	1.70	0.71
1:Ni:490:SER:O	1:Ni:496:ARG:NH1	2.23	0.71
2:OE:97:ASN:ND2	2:RF:4:ASP:OD1	2.22	0.71
1:Nd:571:ARG:NH2	1:Nd:587:GLU:OE1	2.24	0.71
1:Nh:24:THR:O	1:Nh:483:ASN:ND2	2.23	0.71
1:Nv:478:CYS:O	1:Nv:555:ARG:NH1	2.24	0.71
1:Nx:166:ASN:OD1	1:Nx:166:ASN:N	2.23	0.71
2:OG:96:GLY:O	2:RG:56:ARG:NH2	2.24	0.71
1:K1:278:GLN:HG2	1:K1:296:SER:HB3	1.72	0.71
1:L7:12:GLU:OE2	1:Lc:561:LYS:NZ	2.22	0.71
1:LV:490:SER:O	1:LV:496:ARG:NH1	2.24	0.71
1:Lb:654:LEU:HD13	1:Lc:605:ARG:HD3	1.72	0.71
1:Lw:561:LYS:NZ	1:MQ:12:GLU:OE2	2.23	0.71
1:M1:264:THR:O	1:M1:266:LYS:N	2.23	0.71
1:Na:264:THR:O	1:Na:266:LYS:N	2.23	0.71
1:Na:490:SER:O	1:Na:496:ARG:NH1	2.24	0.71
1:Ng:490:SER:O	1:Ng:496:ARG:NH1	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K3:239:VAL:HG23	1:K3:280:ALA:HB3	1.73	0.71
1:K9:432:ALA:HB2	1:K9:440:ASN:HD22	1.55	0.71
1:M1:459:ASP:OD2	1:M1:466:ARG:NH1	2.24	0.71
1:Mv:459:ASP:OD2	1:Mv:466:ARG:NH1	2.23	0.71
1:Nv:521:ALA:HA	1:Nv:539:LYS:HE3	1.73	0.71
2:PF:115:GLN:OE1	2:Pk:151:GLN:NE2	2.24	0.71
1:K0:135:ASP:HB3	1:K0:139:LYS:HB2	1.73	0.71
1:L7:561:LYS:NZ	1:Ma:12:GLU:OE2	2.23	0.71
1:LQ:639:THR:HB	1:LR:624:VAL:HG12	1.72	0.71
1:LW:645:THR:OG1	1:LX:629:ILE:O	2.09	0.71
1:Lz:490:SER:O	1:Lz:496:ARG:NH1	2.23	0.71
1:Ne:459:ASP:OD2	1:Ne:466:ARG:NH1	2.24	0.71
1:Nf:444:SER:OG	1:Nf:543:SER:OG	2.09	0.71
2:Os:113:VAL:HG13	2:Os:127:ILE:HG23	1.73	0.71
2:PN:56:ARG:NH2	2:RN:96:GLY:O	2.24	0.71
1:K2:271:TYR:OH	1:Nb:549:ASP:OD2	2.07	0.71
1:Md:490:SER:O	1:Md:496:ARG:NH1	2.24	0.71
1:Na:33:PHE:HA	1:Na:61:THR:HG23	1.73	0.71
1:Nd:641:ASN:HB2	1:Ne:626:THR:HG23	1.71	0.71
1:K6:459:ASP:OD2	1:K6:466:ARG:NH1	2.23	0.71
1:L0:228:GLY:HA2	1:L0:345:SER:HB3	1.73	0.71
1:L0:605:ARG:HD3	1:L9:654:LEU:HD13	1.72	0.71
1:L3:455:LYS:HD2	1:L3:502:VAL:HG22	1.73	0.71
1:L5:455:LYS:NZ	1:L5:457:GLN:OE1	2.23	0.71
1:L8:202:GLU:OE1	1:L8:203:ALA:N	2.24	0.71
1:LX:400:ARG:NH1	1:LX:403:CYS:SG	2.63	0.71
1:Lc:612:ASN:HB3	1:Lc:624:VAL:HG23	1.72	0.71
1:M1:486:GLN:NE2	2:PG:11:GLU:OE1	2.24	0.71
1:MU:400:ARG:NH1	1:MU:403:CYS:SG	2.64	0.71
1:Mv:57:PRO:HB3	1:Mv:62:ALA:HA	1.71	0.71
1:NW:375:ALA:HB3	1:NW:407:CYS:HA	1.73	0.71
2:OG:150:ILE:HG22	2:Rk:49:ILE:HD11	1.71	0.71
2:PO:23:VAL:HG11	2:PO:39:THR:HG21	1.72	0.71
2:Pp:70:THR:HG22	2:Pp:156:THR:HG22	1.73	0.71
2:RE:22:GLN:HB2	2:RE:116:TYR:HE2	1.55	0.71
1:L1:561:LYS:NZ	1:MU:12:GLU:OE2	2.18	0.70
1:L6:400:ARG:NH1	1:L6:403:CYS:SG	2.64	0.70
1:LU:549:ASP:OD2	1:Lz:271:TYR:OH	2.06	0.70
1:LX:494:TYR:O	1:LX:498:GLN:NE2	2.23	0.70
1:MQ:505:LEU:HD21	1:MQ:525:VAL:HG12	1.73	0.70
1:MZ:459:ASP:OD2	1:MZ:466:ARG:NH1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NV:639:THR:HB	1:NW:624:VAL:HG12	1.71	0.70
1:Ng:228:GLY:HA2	1:Ng:345:SER:HB3	1.73	0.70
2:RC:23:VAL:HG11	2:RC:39:THR:HG21	1.73	0.70
1:L8:549:ASP:OD2	1:Mc:271:TYR:OH	2.07	0.70
1:Mx:459:ASP:OD2	1:Mx:466:ARG:NH1	2.23	0.70
1:Nw:368:VAL:O	1:Nw:400:ARG:NH2	2.23	0.70
1:K8:488:TRP:O	1:K8:552:ASN:ND2	2.24	0.70
1:Lw:264:THR:O	1:Lw:266:LYS:N	2.25	0.70
1:Lx:264:THR:O	1:Lx:266:LYS:N	2.24	0.70
1:M0:400:ARG:NH1	1:M0:403:CYS:SG	2.62	0.70
1:M4:459:ASP:OD2	1:M4:466:ARG:NH1	2.25	0.70
1:Mv:459:ASP:OD2	1:Mv:462:ASN:ND2	2.23	0.70
2:Ol:46:VAL:HG22	2:Ol:64:ARG:HE	1.56	0.70
1:K0:629:ILE:O	1:K9:645:THR:OG1	2.09	0.70
1:LR:514:ARG:NH1	1:LS:366:GLU:OE2	2.24	0.70
1:M1:48:VAL:O	1:M1:52:ASN:ND2	2.24	0.70
1:M7:256:PRO:HG2	1:M7:339:THR:H	1.56	0.70
1:MZ:110:TYR:H	1:MZ:138:GLY:HA3	1.57	0.70
1:Ma:459:ASP:OD2	1:Ma:466:ARG:NH1	2.24	0.70
1:Mb:560:LEU:HD21	1:Mb:601:ILE:HD11	1.73	0.70
1:NX:264:THR:O	1:NX:266:LYS:N	2.23	0.70
2:ON:54:MET:HE3	2:Ot:20:LEU:HA	1.73	0.70
1:LQ:617:VAL:HG22	1:LQ:622:GLU:HB2	1.72	0.70
1:M0:453:ASN:HB2	1:M0:506:ALA:HB3	1.74	0.70
1:M3:202:GLU:OE1	1:M3:203:ALA:N	2.21	0.70
1:Nf:459:ASP:OD2	1:Nf:466:ARG:NH1	2.24	0.70
2:On:49:ILE:HD11	2:PJ:150:ILE:HG22	1.72	0.70
1:K5:495:ASN:N	1:K5:495:ASN:OD1	2.24	0.70
1:L1:571:ARG:NH2	1:L1:587:GLU:OE1	2.24	0.70
1:M2:264:THR:O	1:M2:266:LYS:N	2.25	0.70
1:NV:549:ASP:OD2	1:Nv:271:TYR:OH	2.08	0.70
1:Nh:166:ASN:N	1:Nh:166:ASN:OD1	2.25	0.70
2:Oi:62:GLY:O	2:Oj:118:ARG:NH2	2.23	0.70
1:K0:487:THR:HG21	1:K0:559:MET:HE3	1.73	0.70
1:La:571:ARG:NH2	1:La:587:GLU:OE1	2.24	0.70
1:M2:566:ARG:HA	1:M2:569:LYS:HD2	1.73	0.70
1:M5:206:THR:HA	1:M5:211:GLN:HE21	1.56	0.70
1:Mx:264:THR:O	1:Mx:266:LYS:N	2.24	0.70
1:Nj:131:ILE:HG12	1:Nj:143:ILE:HG22	1.71	0.70
2:RC:39:THR:HG22	2:RC:71:VAL:HG13	1.73	0.70
1:LZ:166:ASN:OD1	1:LZ:166:ASN:N	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MU:202:GLU:OE1	1:MU:203:ALA:N	2.24	0.70
1:MV:561:LYS:NZ	1:Mz:12:GLU:OE2	2.23	0.70
1:Ng:400:ARG:NH1	1:Ng:403:CYS:SG	2.65	0.70
2:OJ:82:ARG:HH12	2:OJ:138:GLY:HA2	1.57	0.70
2:RG:115:GLN:OE1	2:Rl:151:GLN:NE2	2.20	0.70
1:K2:205:MET:O	1:K2:211:GLN:NE2	2.25	0.70
1:L8:455:LYS:NZ	1:L8:457:GLN:OE1	2.24	0.70
1:LY:394:VAL:HG11	1:LY:443:ILE:HD12	1.73	0.70
1:M6:459:ASP:OD2	1:M6:466:ARG:NH1	2.24	0.70
1:MY:394:VAL:HG11	1:MY:443:ILE:HD12	1.73	0.70
1:Mc:423:VAL:HG21	1:Mc:513:GLN:HB3	1.74	0.70
1:Na:451:ASP:OD1	1:Na:452:GLY:N	2.19	0.70
1:Nj:66:MET:HG2	1:Nj:468:VAL:HG21	1.73	0.70
1:Nj:110:TYR:H	1:Nj:138:GLY:HA3	1.55	0.70
1:Nj:400:ARG:NH1	1:Nj:403:CYS:SG	2.64	0.70
1:Nv:104:SER:HB2	1:Nv:181:VAL:HB	1.72	0.70
2:PH:70:THR:HG22	2:PH:156:THR:HG22	1.74	0.70
2:Pk:37:LYS:NZ	2:Pk:152:THR:OG1	2.25	0.70
1:L9:427:VAL:O	1:L9:431:THR:OG1	2.10	0.70
1:Ld:647:THR:O	1:Le:630:GLN:NE2	2.25	0.70
1:M1:620:ARG:NH1	1:M1:622:GLU:OE2	2.24	0.70
1:M7:228:GLY:HA2	1:M7:345:SER:HB3	1.74	0.70
1:M8:654:LEU:HD22	1:M9:605:ARG:HH11	1.57	0.70
1:MQ:164:GLY:H	1:MQ:167:TRP:HD1	1.40	0.70
1:Nz:490:SER:OG	1:Nz:538:ASP:OD2	2.09	0.70
2:Ol:14:ASP:OD1	2:Ol:17:ARG:NH2	2.23	0.70
2:PC:56:ARG:NH2	2:RC:96:GLY:O	2.24	0.70
1:K0:2:THR:OG1	1:K0:3:LEU:N	2.25	0.69
1:K5:166:ASN:OD1	1:K5:166:ASN:N	2.19	0.69
1:K9:110:TYR:H	1:K9:138:GLY:HA3	1.55	0.69
1:K9:451:ASP:OD1	1:K9:452:GLY:N	2.22	0.69
1:Lv:135:ASP:HB3	1:Lv:139:LYS:HB2	1.74	0.69
1:M1:561:LYS:NZ	1:NZ:12:GLU:OE2	2.25	0.69
1:MQ:119:LYS:NZ	1:MQ:124:ASP:OD1	2.24	0.69
1:Ne:641:ASN:HB2	1:Nf:626:THR:HB	1.72	0.69
1:Nw:654:LEU:HD22	1:Nx:605:ARG:HH11	1.57	0.69
2:OF:96:GLY:O	2:RF:56:ARG:NH2	2.24	0.69
1:K3:575:LEU:HB3	1:K3:577:ASN:HD22	1.57	0.69
1:L1:455:LYS:HD2	1:L1:502:VAL:HG22	1.74	0.69
1:Ld:264:THR:O	1:Ld:266:LYS:N	2.26	0.69
1:MU:166:ASN:OD1	1:MU:166:ASN:N	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MV:490:SER:O	1:MV:496:ARG:NH1	2.25	0.69
1:Nc:406:LEU:HD13	1:Nc:475:ALA:HB2	1.73	0.69
1:Nh:400:ARG:NH1	1:Nh:403:CYS:SG	2.62	0.69
2:RE:19:ASN:OD1	2:RE:19:ASN:N	2.25	0.69
2:Rr:14:ASP:OD1	2:Rr:17:ARG:NH2	2.23	0.69
1:K2:264:THR:O	1:K2:266:LYS:N	2.24	0.69
1:K6:561:LYS:NZ	1:LZ:12:GLU:OE2	2.25	0.69
1:K7:110:TYR:H	1:K7:138:GLY:HA3	1.58	0.69
1:L3:202:GLU:OE1	1:L3:203:ALA:N	2.23	0.69
1:Ld:32:LYS:HE2	1:Ld:350:VAL:HB	1.74	0.69
1:Lz:617:VAL:HG22	1:Lz:622:GLU:HB2	1.75	0.69
1:NZ:116:ILE:HD13	1:NZ:171:ILE:HG12	1.74	0.69
1:Ni:90:LYS:NZ	1:Ni:190:ASP:OD1	2.25	0.69
2:Ol:23:VAL:HG11	2:Ol:39:THR:HG21	1.74	0.69
2:Oq:106:GLU:O	2:Oq:109:LYS:NZ	2.26	0.69
2:Or:39:THR:HB	2:Or:71:VAL:HG13	1.73	0.69
1:K3:28:ALA:HB2	1:K3:370:VAL:HG21	1.75	0.69
1:K6:427:VAL:O	1:K6:431:THR:OG1	2.10	0.69
1:L9:24:THR:O	1:L9:483:ASN:ND2	2.22	0.69
1:LQ:391:LYS:NZ	1:LQ:440:ASN:O	2.25	0.69
1:Lw:432:ALA:HB2	1:Lw:440:ASN:HD22	1.57	0.69
1:M4:256:PRO:HG2	1:M4:339:THR:H	1.58	0.69
1:Mc:488:TRP:O	1:Mc:552:ASN:ND2	2.25	0.69
1:Mx:576:ASN:ND2	1:Mx:622:GLU:O	2.26	0.69
1:Nx:379:ALA:HA	1:Nx:411:ARG:HB2	1.74	0.69
2:Pj:58:ILE:HD12	2:Pk:6:VAL:HG21	1.74	0.69
2:Rs:54:MET:HE2	2:Rt:1:MET:HE1	1.74	0.69
1:K6:118:VAL:HB	1:K6:126:GLU:HB3	1.74	0.69
1:LS:490:SER:O	1:LS:496:ARG:NH1	2.26	0.69
1:LY:29:LEU:O	1:LY:80:VAL:HA	1.92	0.69
1:LY:490:SER:O	1:LY:496:ARG:NH1	2.26	0.69
1:Ld:32:LYS:NZ	1:Ld:60:GLU:OE2	2.25	0.69
1:Le:131:ILE:HG12	1:Le:143:ILE:HG22	1.73	0.69
1:M0:271:TYR:OH	1:Me:549:ASP:OD2	2.08	0.69
1:Nc:135:ASP:HB3	1:Nc:139:LYS:HB2	1.75	0.69
1:Nc:427:VAL:O	1:Nc:431:THR:OG1	2.10	0.69
1:Nx:576:ASN:ND2	1:Nx:622:GLU:O	2.25	0.69
2:Oq:56:ARG:NH2	2:Pq:96:GLY:O	2.24	0.69
2:Rq:37:LYS:NZ	2:Rq:152:THR:OG1	2.25	0.69
1:L4:488:TRP:HB3	1:L4:556:LEU:HD13	1.73	0.69
1:LW:240:SER:OG	1:LW:243:ASP:OD1	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NW:134:VAL:HG12	1:NW:140:ILE:HG22	1.74	0.69
2:Oj:131:GLY:O	2:Oj:159:LEU:HA	1.93	0.69
2:RH:25:ILE:O	2:RH:27:TYR:N	2.24	0.69
2:RM:54:MET:O	2:RM:56:ARG:N	2.25	0.69
1:K2:432:ALA:HB2	1:K2:440:ASN:HD22	1.57	0.69
1:L2:639:THR:HB	1:L3:624:VAL:HG12	1.73	0.69
1:L4:116:ILE:HD11	1:L4:131:ILE:HG13	1.74	0.69
1:L4:228:GLY:HA2	1:L4:345:SER:HB3	1.74	0.69
1:L9:57:PRO:HB3	1:L9:62:ALA:HA	1.75	0.69
1:M9:166:ASN:OD1	1:M9:166:ASN:N	2.19	0.69
1:MU:379:ALA:HA	1:MU:411:ARG:HB2	1.75	0.69
1:Mb:488:TRP:HB3	1:Mb:556:LEU:HD13	1.73	0.69
1:Mw:427:VAL:HG13	1:Mw:520:GLU:HG3	1.74	0.69
1:Na:166:ASN:OD1	1:Na:166:ASN:N	2.26	0.69
1:Nf:494:TYR:O	1:Nf:498:GLN:NE2	2.25	0.69
1:Nv:102:THR:HB	1:Nv:183:THR:HB	1.75	0.69
2:Oo:140:LEU:HD13	2:Oo:153:PHE:HB3	1.72	0.69
2:RJ:23:VAL:HG11	2:RJ:39:THR:HG21	1.73	0.69
2:RN:63:ASP:OD2	2:Rt:147:ASN:ND2	2.26	0.69
1:K0:199:GLU:OE1	1:K0:200:ASN:ND2	2.26	0.69
1:L2:202:GLU:OE1	1:L2:203:ALA:N	2.26	0.69
1:L7:391:LYS:NZ	1:L7:440:ASN:O	2.25	0.69
1:LR:375:ALA:HB1	1:LR:390:GLN:HG2	1.73	0.69
1:LY:33:PHE:HA	1:LY:61:THR:HG23	1.74	0.69
1:M0:373:PHE:HB2	1:M0:405:VAL:HG22	1.75	0.69
1:M6:490:SER:O	1:M6:496:ARG:NH1	2.25	0.69
1:M7:121:VAL:HG13	1:M7:166:ASN:HB3	1.74	0.69
1:MY:33:PHE:HA	1:MY:61:THR:HG23	1.72	0.69
1:MY:455:LYS:HG3	1:MY:502:VAL:HG13	1.75	0.69
1:NW:126:GLU:OE2	1:NW:129:GLY:N	2.26	0.69
1:NW:264:THR:O	1:NW:266:LYS:N	2.25	0.69
1:NX:368:VAL:O	1:NX:400:ARG:NH2	2.26	0.69
1:Nb:110:TYR:H	1:Nb:138:GLY:HA3	1.58	0.69
1:Nf:488:TRP:O	1:Nf:552:ASN:ND2	2.26	0.69
1:Nz:490:SER:O	1:Nz:496:ARG:NH1	2.26	0.69
2:OH:96:GLY:O	2:RH:56:ARG:NH2	2.26	0.69
2:Pj:56:ARG:NH2	2:RT:96:GLY:O	2.25	0.69
2:Pt:72:THR:HG22	2:Pt:154:GLU:HG3	1.75	0.69
2:RD:63:ASP:OD2	2:RT:147:ASN:ND2	2.25	0.69
1:K1:166:ASN:N	1:K1:166:ASN:OD1	2.25	0.69
1:L3:33:PHE:HA	1:L3:61:THR:HG23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lb:378:CYS:SG	1:Lb:454:TYR:OH	2.47	0.69
1:M4:33:PHE:HA	1:M4:61:THR:HG23	1.74	0.69
1:M5:490:SER:O	1:M5:496:ARG:NH1	2.26	0.69
1:MQ:90:LYS:NZ	1:MQ:190:ASP:OD1	2.26	0.69
1:MS:264:THR:O	1:MS:266:LYS:N	2.26	0.69
1:NZ:33:PHE:HA	1:NZ:61:THR:HG23	1.73	0.69
1:Ng:617:VAL:HG23	1:Ng:620:ARG:HH21	1.58	0.69
1:K1:366:GLU:OE2	1:Nz:514:ARG:NH1	2.26	0.69
1:M7:455:LYS:NZ	1:M7:473:ASP:OD1	2.26	0.69
1:MR:391:LYS:NZ	1:MR:440:ASN:O	2.25	0.69
1:MW:490:SER:O	1:MW:496:ARG:NH1	2.26	0.69
1:Mb:264:THR:O	1:Mb:266:LYS:N	2.26	0.69
1:Md:235:GLU:OE2	1:Md:261:ARG:NH2	2.21	0.69
1:Mw:616:SER:OG	1:Mw:620:ARG:NH2	2.26	0.69
1:Na:561:LYS:NZ	1:Nz:12:GLU:OE2	2.23	0.69
1:Ng:264:THR:O	1:Ng:266:LYS:N	2.25	0.69
2:Os:56:ARG:NH2	2:Ps:96:GLY:O	2.24	0.69
1:L6:32:LYS:NZ	1:L6:60:GLU:OE2	2.26	0.68
1:LX:90:LYS:NZ	1:LX:190:ASP:OD1	2.25	0.68
1:Ld:90:LYS:NZ	1:Ld:190:ASP:OD1	2.26	0.68
1:Lz:571:ARG:NH2	1:Lz:587:GLU:OE1	2.24	0.68
1:M0:110:TYR:H	1:M0:138:GLY:HA3	1.57	0.68
1:M5:495:ASN:OD1	1:M5:495:ASN:N	2.24	0.68
1:MW:391:LYS:NZ	1:MW:440:ASN:O	2.26	0.68
1:MY:490:SER:O	1:MY:496:ARG:NH1	2.26	0.68
1:MZ:400:ARG:NH1	1:MZ:403:CYS:SG	2.66	0.68
1:Nj:26:THR:HA	1:Nj:77:ASP:O	1.93	0.68
2:Oj:22:GLN:HB2	2:Oj:116:TYR:HE2	1.58	0.68
2:PF:4:ASP:OD1	2:RE:97:ASN:ND2	2.27	0.68
2:RN:113:VAL:HG13	2:RN:127:ILE:HG23	1.75	0.68
1:LX:478:CYS:O	1:LX:555:ARG:NH1	2.26	0.68
1:Lc:379:ALA:HA	1:Lc:411:ARG:HB2	1.74	0.68
1:Ma:478:CYS:O	1:Ma:555:ARG:NH1	2.25	0.68
1:Ma:639:THR:HB	1:Mb:624:VAL:HG12	1.73	0.68
1:Mw:400:ARG:NH1	1:Mw:403:CYS:SG	2.67	0.68
1:Na:135:ASP:HB3	1:Na:139:LYS:HB2	1.75	0.68
1:Na:444:SER:HG	1:Na:543:SER:HG	1.40	0.68
1:Ne:239:VAL:HG23	1:Ne:280:ALA:HB3	1.74	0.68
2:OM:140:LEU:HD13	2:OM:153:PHE:HB3	1.75	0.68
2:Oj:104:PRO:HA	2:Oj:107:TYR:CE1	2.29	0.68
2:Pq:106:GLU:O	2:Pq:109:LYS:NZ	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L0:163:LEU:HD11	1:L0:187:ILE:HG12	1.74	0.68
1:L3:406:LEU:HD13	1:L3:475:ALA:HB2	1.75	0.68
1:L4:26:THR:HA	1:L4:77:ASP:O	1.93	0.68
1:L4:400:ARG:NH1	1:L4:403:CYS:SG	2.66	0.68
1:LV:366:GLU:OE1	1:LV:367:SER:N	2.26	0.68
1:La:121:VAL:HG13	1:La:166:ASN:HB3	1.75	0.68
1:La:264:THR:O	1:La:266:LYS:N	2.25	0.68
1:Lx:90:LYS:NZ	1:Lx:190:ASP:OD1	2.26	0.68
1:MW:47:GLU:OE1	1:MW:461:TYR:OH	2.10	0.68
1:MZ:394:VAL:HG11	1:MZ:443:ILE:HD12	1.74	0.68
1:Me:247:GLY:O	1:Me:263:SER:OG	2.12	0.68
1:Nd:368:VAL:O	1:Nd:400:ARG:NH2	2.27	0.68
2:Oh:14:ASP:OD2	2:Oh:17:ARG:NH2	2.27	0.68
2:Op:25:ILE:HD13	2:Op:111:ALA:HB2	1.75	0.68
2:RN:54:MET:HE3	2:Rt:20:LEU:HA	1.75	0.68
1:K2:24:THR:O	1:K2:483:ASN:ND2	2.15	0.68
1:L0:371:GLN:OE1	1:L0:562:THR:OG1	2.10	0.68
1:L1:451:ASP:OD1	1:L1:452:GLY:N	2.25	0.68
1:L6:549:ASP:O	1:L6:550:ARG:NE	2.27	0.68
1:LR:368:VAL:O	1:LR:400:ARG:NH2	2.27	0.68
1:LZ:57:PRO:HB3	1:LZ:62:ALA:HA	1.76	0.68
1:Nf:2:THR:OG1	1:Nf:3:LEU:N	2.26	0.68
1:Nz:607:VAL:O	1:Nz:612:ASN:ND2	2.26	0.68
2:RI:23:VAL:HG11	2:RI:39:THR:HG21	1.76	0.68
1:K9:93:SER:HB3	1:K9:191:SER:HB2	1.74	0.68
1:L1:108:SER:OG	1:L1:137:ASP:OD2	2.11	0.68
1:L6:29:LEU:O	1:L6:80:VAL:HA	1.93	0.68
1:L9:11:LYS:HG2	1:L9:13:THR:HG23	1.75	0.68
1:M4:119:LYS:NZ	1:M4:124:ASP:OD1	2.27	0.68
1:MS:110:TYR:H	1:MS:138:GLY:HA3	1.59	0.68
1:MU:571:ARG:NH2	1:MU:587:GLU:OE1	2.25	0.68
1:Nz:612:ASN:HB3	1:Nz:624:VAL:HG23	1.76	0.68
2:OM:95:GLN:NE2	2:Rr:162:TRP:O	2.26	0.68
2:Oj:56:ARG:NH2	2:Pj:96:GLY:O	2.24	0.68
2:Ro:14:ASP:OD1	2:Ro:17:ARG:NH2	2.22	0.68
1:K8:490:SER:O	1:K8:496:ARG:NH1	2.27	0.68
1:LY:209:ASP:OD1	1:LY:209:ASP:N	2.25	0.68
1:M4:495:ASN:OD1	1:M4:495:ASN:N	2.26	0.68
1:M7:549:ASP:OD2	1:Ng:271:TYR:OH	2.11	0.68
1:Mw:432:ALA:HB2	1:Mw:440:ASN:HD22	1.59	0.68
1:Mz:368:VAL:O	1:Mz:400:ARG:NH2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PM:3:VAL:HG12	2:RL:97:ASN:HA	1.76	0.68
1:K1:10:LEU:HD13	1:Nb:561:LYS:HD2	1.76	0.68
1:K3:617:VAL:HG22	1:K3:622:GLU:HB2	1.76	0.68
1:K9:571:ARG:NH2	1:K9:587:GLU:OE1	2.27	0.68
1:L1:394:VAL:HG11	1:L1:443:ILE:HD12	1.75	0.68
1:L1:430:ARG:NH2	1:L1:443:ILE:O	2.23	0.68
1:L1:455:LYS:HB2	1:L1:470:LEU:HD13	1.75	0.68
1:LZ:34:GLN:NE2	1:LZ:58:THR:OG1	2.25	0.68
1:La:486:GLN:NE2	2:Rq:11:GLU:OE1	2.26	0.68
1:Lb:110:TYR:H	1:Lb:138:GLY:HA3	1.59	0.68
1:Lx:256:PRO:HG2	1:Lx:339:THR:H	1.57	0.68
1:M0:549:ASP:OD2	1:Nj:271:TYR:OH	2.09	0.68
1:M9:487:THR:HG21	1:M9:559:MET:HE3	1.75	0.68
1:MW:645:THR:OG1	1:MX:629:ILE:O	2.11	0.68
1:Nd:459:ASP:OD2	1:Nd:466:ARG:NH1	2.27	0.68
1:L0:199:GLU:OE1	1:L0:200:ASN:ND2	2.26	0.68
1:LV:104:SER:HB2	1:LV:181:VAL:HB	1.76	0.68
1:Ld:593:GLN:NE2	2:Rt:4:ASP:OD2	2.26	0.68
1:Ma:487:THR:HG21	1:Ma:559:MET:HE3	1.76	0.68
1:Me:66:MET:HG2	1:Me:468:VAL:HG21	1.75	0.68
1:Nd:90:LYS:NZ	1:Nd:190:ASP:OD1	2.27	0.68
1:Nd:256:PRO:HG2	1:Nd:339:THR:H	1.59	0.68
1:Ni:264:THR:O	1:Ni:266:LYS:N	2.26	0.68
2:Pl:14:ASP:OD1	2:Pl:17:ARG:NH2	2.25	0.68
1:L4:119:LYS:NZ	1:L4:124:ASP:OD1	2.27	0.68
1:LS:487:THR:HG21	1:LS:559:MET:HE3	1.73	0.68
1:LV:33:PHE:HA	1:LV:61:THR:HG23	1.76	0.68
1:Lx:642:PHE:HE1	1:Lz:564:ILE:HD11	1.56	0.68
1:Lz:455:LYS:HE2	1:Lz:502:VAL:HG22	1.74	0.68
1:M1:455:LYS:NZ	1:M1:457:GLN:OE1	2.25	0.68
1:MU:32:LYS:HE2	1:MU:350:VAL:HB	1.75	0.68
1:Mw:159:GLU:OE2	1:Mw:166:ASN:ND2	2.27	0.68
1:Ni:647:THR:O	1:Nj:630:GLN:NE2	2.26	0.68
1:Nw:487:THR:HG21	1:Nw:559:MET:HE3	1.75	0.68
2:PD:3:VAL:HG12	2:RC:97:ASN:HA	1.75	0.68
2:Pj:114:ARG:HG2	2:Pj:126:GLU:HG3	1.76	0.68
2:Pq:17:ARG:HH11	2:Pq:118:ARG:HD3	1.58	0.68
1:L2:110:TYR:H	1:L2:138:GLY:HA3	1.57	0.68
1:Lc:430:ARG:NH2	1:Lc:443:ILE:O	2.24	0.68
1:Ld:378:CYS:HG	1:Ld:454:TYR:HH	1.33	0.68
1:MS:490:SER:O	1:MS:496:ARG:NH1	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ma:455:LYS:HB2	1:Ma:470:LEU:HD13	1.75	0.68
1:Nv:637:TYR:HB2	1:Nw:622:GLU:HG2	1.75	0.68
2:Ot:56:ARG:NH2	2:Pt:96:GLY:O	2.26	0.68
2:PC:140:LEU:HD13	2:PC:153:PHE:HB3	1.76	0.68
2:PK:63:ASP:OD2	2:Pq:147:ASN:ND2	2.22	0.68
2:PO:9:ALA:O	2:Pt:35:GLN:NE2	2.27	0.68
2:PO:56:ARG:NH2	2:RO:96:GLY:O	2.23	0.68
1:K2:206:THR:HA	1:K2:211:GLN:HE21	1.58	0.67
1:K6:478:CYS:O	1:K6:555:ARG:NH1	2.27	0.67
1:L3:368:VAL:O	1:L3:400:ARG:NH2	2.27	0.67
1:Le:375:ALA:HB1	1:Le:390:GLN:HG2	1.77	0.67
1:M7:373:PHE:HB2	1:M7:405:VAL:HG22	1.76	0.67
2:Rk:58:ILE:HD12	2:Rl:6:VAL:HG21	1.76	0.67
1:L8:131:ILE:HD13	1:L8:140:ILE:HG21	1.75	0.67
1:L9:455:LYS:HB2	1:L9:470:LEU:HD13	1.75	0.67
1:Le:234:ILE:HG12	1:Le:285:ARG:HG3	1.76	0.67
1:M7:561:LYS:HB3	1:Nf:10:LEU:HD13	1.75	0.67
1:Nw:202:GLU:OE1	1:Nw:203:ALA:N	2.27	0.67
2:OE:31:ASN:ND2	2:RT:11:GLU:OE2	2.25	0.67
1:K4:119:LYS:NZ	1:K4:124:ASP:OD1	2.27	0.67
1:K9:211:GLN:NE2	1:K9:329:ASN:OD1	2.26	0.67
1:LQ:237:GLU:OE1	1:LQ:261:ARG:NH2	2.28	0.67
1:Lc:455:LYS:HB2	1:Lc:470:LEU:HD13	1.76	0.67
1:Lv:478:CYS:O	1:Lv:555:ARG:NH1	2.27	0.67
1:M4:430:ARG:NH2	1:M4:443:ILE:O	2.28	0.67
1:M8:202:GLU:OE1	1:M8:203:ALA:N	2.27	0.67
1:MX:617:VAL:HG22	1:MX:622:GLU:HB2	1.76	0.67
1:Me:131:ILE:HG12	1:Me:143:ILE:HG22	1.75	0.67
1:Nc:400:ARG:NH1	1:Nc:403:CYS:SG	2.65	0.67
1:Nf:487:THR:HG21	1:Nf:559:MET:HE3	1.76	0.67
2:OH:140:LEU:HD13	2:OH:153:PHE:HB3	1.75	0.67
2:PN:114:ARG:HG2	2:PN:126:GLU:HG3	1.74	0.67
1:L1:272:GLY:O	1:L1:274:GLN:NE2	2.27	0.67
1:L2:400:ARG:NH1	1:L2:403:CYS:SG	2.65	0.67
1:L6:438:ASP:OD1	1:L6:438:ASP:N	2.27	0.67
1:L7:26:THR:HA	1:L7:77:ASP:O	1.94	0.67
1:L7:127:THR:OG1	1:L7:128:GLU:OE2	2.11	0.67
1:LX:211:GLN:OE1	1:LX:329:ASN:ND2	2.28	0.67
1:La:256:PRO:HG2	1:La:339:THR:H	1.60	0.67
1:Lx:576:ASN:ND2	1:Lx:622:GLU:O	2.27	0.67
1:M1:394:VAL:HG11	1:M1:443:ILE:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M8:375:ALA:HB3	1:M8:407:CYS:HA	1.77	0.67
1:MY:228:GLY:HA2	1:MY:345:SER:HB3	1.76	0.67
1:Md:566:ARG:HA	1:Md:569:LYS:HD2	1.77	0.67
1:Mw:495:ASN:OD1	1:Mw:495:ASN:N	2.28	0.67
2:PI:106:GLU:O	2:PI:109:LYS:NZ	2.27	0.67
2:PL:58:ILE:HD12	2:PM:6:VAL:HG21	1.74	0.67
2:Ps:82:ARG:HH12	2:Ps:138:GLY:HA2	1.58	0.67
2:RN:114:ARG:HG2	2:RN:126:GLU:HG3	1.76	0.67
1:LS:514:ARG:NH1	1:LU:366:GLU:OE2	2.28	0.67
1:Lc:456:TYR:HB3	1:Lc:503:ILE:HG23	1.76	0.67
1:Lc:639:THR:HB	1:Ld:624:VAL:HG12	1.77	0.67
1:MR:379:ALA:HA	1:MR:411:ARG:HB2	1.75	0.67
1:Mx:455:LYS:HD3	1:Mx:502:VAL:HG22	1.77	0.67
1:NV:617:VAL:HG22	1:NV:622:GLU:HB2	1.77	0.67
1:NX:571:ARG:NH2	1:NX:587:GLU:OE1	2.27	0.67
1:NZ:32:LYS:HE2	1:NZ:350:VAL:HB	1.76	0.67
2:Rt:39:THR:HG22	2:Rt:71:VAL:HG22	1.76	0.67
1:K0:264:THR:O	1:K0:266:LYS:N	2.28	0.67
1:K3:368:VAL:O	1:K3:400:ARG:NH2	2.27	0.67
1:L2:199:GLU:OE2	1:L2:200:ASN:ND2	2.22	0.67
1:LY:90:LYS:NZ	1:LY:190:ASP:OD1	2.28	0.67
1:LZ:32:LYS:NZ	1:LZ:60:GLU:OE2	2.28	0.67
1:M1:108:SER:OG	1:M1:137:ASP:OD2	2.13	0.67
1:M6:209:ASP:OD1	1:M6:209:ASP:N	2.23	0.67
1:Mb:487:THR:HG21	1:Mb:559:MET:HE3	1.77	0.67
1:NX:46:ASN:HB3	1:NX:49:ASP:HB2	1.75	0.67
1:NX:538:ASP:OD1	1:NX:538:ASP:N	2.28	0.67
1:Nx:281:ILE:HD12	1:Nx:295:LEU:HD12	1.77	0.67
2:Os:96:GLY:O	2:Rs:56:ARG:NH2	2.28	0.67
2:Rq:83:GLN:NE2	2:Rq:87:ASP:OD1	2.27	0.67
1:La:451:ASP:OD1	1:La:452:GLY:N	2.26	0.67
1:Lb:455:LYS:NZ	1:Lb:473:ASP:OD1	2.27	0.67
1:Ld:237:GLU:OE1	1:Ld:284:ARG:NH1	2.27	0.67
1:M5:538:ASP:OD1	1:M5:538:ASP:N	2.26	0.67
1:M9:490:SER:O	1:M9:496:ARG:NH1	2.27	0.67
1:MW:110:TYR:H	1:MW:138:GLY:HA3	1.59	0.67
1:MY:209:ASP:N	1:MY:209:ASP:OD1	2.26	0.67
1:Nf:202:GLU:OE1	1:Nf:203:ALA:N	2.27	0.67
1:Nv:264:THR:O	1:Nv:266:LYS:N	2.28	0.67
2:OI:23:VAL:HG11	2:OI:39:THR:HG21	1.77	0.67
2:Ok:37:LYS:NZ	2:Ok:152:THR:OG1	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PC:82:ARG:NH1	2:PC:138:GLY:HA2	2.09	0.67
1:K6:32:LYS:NZ	1:K6:60:GLU:OE2	2.26	0.67
1:K9:41:ILE:HD11	1:K9:361:PHE:HB3	1.75	0.67
1:L4:495:ASN:OD1	1:L4:495:ASN:N	2.28	0.67
1:L7:328:GLN:HG2	1:L7:329:ASN:HD22	1.60	0.67
1:LR:264:THR:O	1:LR:266:LYS:N	2.28	0.67
1:LW:202:GLU:OE1	1:LW:203:ALA:N	2.27	0.67
1:Lc:206:THR:HA	1:Lc:211:GLN:HE21	1.60	0.67
1:Lc:514:ARG:NH1	1:Ld:366:GLU:OE2	2.26	0.67
1:M1:406:LEU:HD13	1:M1:475:ALA:HB2	1.77	0.67
1:M2:41:ILE:HD11	1:M2:361:PHE:HB3	1.77	0.67
1:MV:444:SER:HG	1:MV:543:SER:HG	1.36	0.67
1:NZ:166:ASN:N	1:NZ:166:ASN:OD1	2.28	0.67
1:Nb:332:GLU:OE1	1:Nb:332:GLU:N	2.26	0.67
1:Nj:247:GLY:HA2	1:Nj:266:LYS:HG3	1.77	0.67
2:OE:147:ASN:ND2	2:RS:63:ASP:OD2	2.27	0.67
1:L2:432:ALA:HB2	1:L2:440:ASN:HD22	1.59	0.67
1:La:235:GLU:OE2	1:La:261:ARG:NH2	2.28	0.67
1:La:459:ASP:OD2	1:La:466:ARG:NH1	2.27	0.67
1:Lc:391:LYS:NZ	1:Lc:440:ASN:O	2.28	0.67
1:M7:607:VAL:O	1:M7:612:ASN:ND2	2.28	0.67
1:MY:29:LEU:O	1:MY:80:VAL:HA	1.94	0.67
2:Ph:23:VAL:HG11	2:Ph:39:THR:HG21	1.77	0.67
2:RS:24:GLU:OE1	2:RS:114:ARG:NH2	2.28	0.67
1:K7:33:PHE:HA	1:K7:61:THR:HG23	1.76	0.67
1:K7:430:ARG:NH2	1:K7:443:ILE:O	2.28	0.67
1:L5:406:LEU:HD13	1:L5:475:ALA:HB2	1.77	0.67
1:LW:104:SER:OG	1:LW:183:THR:OG1	2.13	0.67
1:Le:110:TYR:H	1:Le:138:GLY:HA3	1.59	0.67
1:Lv:264:THR:O	1:Lv:266:LYS:N	2.28	0.67
1:M6:400:ARG:NH1	1:M6:403:CYS:SG	2.68	0.67
1:M8:612:ASN:HB3	1:M8:624:VAL:HG23	1.75	0.67
1:MV:264:THR:O	1:MV:266:LYS:N	2.28	0.67
1:MX:209:ASP:OD1	1:MX:209:ASP:N	2.19	0.67
1:Mb:29:LEU:O	1:Mb:80:VAL:HA	1.94	0.67
1:Nd:264:THR:O	1:Nd:266:LYS:N	2.28	0.67
2:OM:56:ARG:NH2	2:PM:96:GLY:O	2.26	0.67
2:Rp:25:ILE:O	2:Rp:27:TYR:N	2.26	0.67
2:Rq:104:PRO:O	2:Rq:108:LYS:HB2	1.95	0.67
1:LQ:205:MET:O	1:LQ:211:GLN:NE2	2.28	0.66
1:LR:494:TYR:HE2	1:LR:528:THR:HG21	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:La:444:SER:OG	1:La:543:SER:OG	2.11	0.66
1:Lx:2:THR:OG1	1:Lx:3:LEU:N	2.28	0.66
1:Lz:438:ASP:OD1	1:Lz:438:ASP:N	2.23	0.66
1:M0:264:THR:O	1:M0:266:LYS:N	2.28	0.66
1:Nj:121:VAL:HG22	1:Nj:166:ASN:HB3	1.77	0.66
2:OF:14:ASP:OD1	2:OF:17:ARG:NH2	2.26	0.66
2:OF:23:VAL:HG11	2:OF:39:THR:HG21	1.77	0.66
2:RN:19:ASN:OD1	2:RN:19:ASN:N	2.26	0.66
1:K3:3:LEU:HD11	1:K3:9:GLU:HB2	1.77	0.66
1:K7:90:LYS:NZ	1:K7:190:ASP:OD1	2.29	0.66
1:L0:596:LYS:NZ	1:L0:602:TYR:O	2.28	0.66
1:L3:29:LEU:O	1:L3:80:VAL:HA	1.94	0.66
1:Lz:368:VAL:O	1:Lz:400:ARG:NH2	2.28	0.66
1:M6:47:GLU:OE1	1:M6:461:TYR:OH	2.13	0.66
1:M8:488:TRP:O	1:M8:552:ASN:ND2	2.28	0.66
1:NV:264:THR:O	1:NV:266:LYS:N	2.28	0.66
1:NZ:455:LYS:HD2	1:NZ:502:VAL:HG22	1.77	0.66
2:OD:96:GLY:O	2:RD:56:ARG:NH2	2.28	0.66
2:Oh:9:ALA:O	2:PC:35:GLN:NE2	2.28	0.66
2:PO:106:GLU:O	2:PO:109:LYS:NZ	2.28	0.66
1:K6:47:GLU:OE1	1:K6:461:TYR:OH	2.13	0.66
1:Ld:135:ASP:HB3	1:Ld:139:LYS:HB2	1.77	0.66
1:M9:451:ASP:OD1	1:M9:452:GLY:N	2.24	0.66
1:MW:596:LYS:NZ	1:MW:602:TYR:O	2.26	0.66
1:MX:455:LYS:HG3	1:MX:502:VAL:HG13	1.76	0.66
1:NW:514:ARG:NH1	1:NX:366:GLU:OE2	2.29	0.66
1:Nv:66:MET:HG2	1:Nv:468:VAL:HG21	1.78	0.66
1:Nv:459:ASP:OD2	1:Nv:466:ARG:NH1	2.27	0.66
1:Nz:118:VAL:HB	1:Nz:126:GLU:HB3	1.76	0.66
2:OD:3:VAL:HG12	2:PC:97:ASN:HA	1.77	0.66
2:Pn:114:ARG:HG2	2:Pn:126:GLU:HG3	1.77	0.66
2:RO:106:GLU:O	2:RO:109:LYS:NZ	2.28	0.66
1:K7:14:THR:HG22	1:Ng:643:VAL:HG13	1.77	0.66
1:Lc:34:GLN:OE1	1:Lc:58:THR:OG1	2.13	0.66
1:M0:166:ASN:OD1	1:M0:166:ASN:N	2.28	0.66
1:M1:495:ASN:N	1:M1:495:ASN:OD1	2.26	0.66
1:M7:135:ASP:HB3	1:M7:139:LYS:HB2	1.77	0.66
1:M8:131:ILE:HD13	1:M8:140:ILE:HG21	1.76	0.66
1:Md:199:GLU:OE2	1:Md:200:ASN:ND2	2.17	0.66
2:OD:70:THR:HG22	2:OD:156:THR:HG22	1.78	0.66
2:OK:70:THR:HG22	2:OK:156:THR:HG22	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ON:147:ASN:ND2	2:Rr:63:ASP:OD2	2.28	0.66
2:Ot:98:GLU:OE1	2:Ot:98:GLU:N	2.28	0.66
2:Ps:19:ASN:N	2:Ps:19:ASN:OD1	2.24	0.66
2:Rn:72:THR:HG22	2:Rn:154:GLU:HG3	1.78	0.66
1:K4:12:GLU:OE2	1:Ne:561:LYS:NZ	2.21	0.66
1:L1:368:VAL:O	1:L1:400:ARG:NH2	2.28	0.66
1:L4:33:PHE:HA	1:L4:61:THR:HG23	1.77	0.66
1:L4:459:ASP:OD2	1:L4:466:ARG:NH1	2.29	0.66
1:L5:2:THR:OG1	1:L5:3:LEU:N	2.29	0.66
1:L5:43:GLN:OE1	1:L5:79:ARG:NH1	2.28	0.66
1:L7:264:THR:O	1:L7:266:LYS:N	2.29	0.66
1:L9:432:ALA:HB2	1:L9:440:ASN:HD22	1.59	0.66
1:L9:455:LYS:NZ	1:L9:457:GLN:OE1	2.29	0.66
1:Lb:256:PRO:HG2	1:Lb:339:THR:H	1.60	0.66
1:Lz:90:LYS:NZ	1:Lz:190:ASP:OD1	2.28	0.66
1:M0:135:ASP:HB3	1:M0:139:LYS:HB2	1.77	0.66
1:MX:264:THR:O	1:MX:266:LYS:N	2.29	0.66
1:Mx:90:LYS:NZ	1:Mx:190:ASP:OD1	2.29	0.66
1:Nf:373:PHE:HB2	1:Nf:405:VAL:HG22	1.77	0.66
1:Nf:406:LEU:HD13	1:Nf:475:ALA:HB2	1.77	0.66
1:Nx:455:LYS:HD3	1:Nx:502:VAL:HG22	1.77	0.66
2:OC:39:THR:HG22	2:OC:71:VAL:HG13	1.77	0.66
2:OC:95:GLN:HG3	2:RR:64:ARG:NH1	2.10	0.66
2:Pp:56:ARG:NH2	2:Rp:96:GLY:O	2.27	0.66
1:K0:605:ARG:HD3	1:K9:654:LEU:HD13	1.78	0.66
1:K1:459:ASP:OD2	1:K1:466:ARG:NH1	2.28	0.66
1:K2:561:LYS:NZ	1:LV:12:GLU:OE2	2.20	0.66
1:L5:495:ASN:OD1	1:L5:495:ASN:N	2.29	0.66
1:M1:629:ILE:O	1:Mz:645:THR:OG1	2.13	0.66
1:Md:486:GLN:NE2	2:Ot:11:GLU:OE1	2.28	0.66
1:Nc:100:GLU:OE2	1:Nc:186:LYS:NZ	2.22	0.66
1:Ne:328:GLN:HG2	1:Ne:329:ASN:HD22	1.60	0.66
1:Nj:430:ARG:NH2	1:Nj:443:ILE:O	2.28	0.66
1:Nw:264:THR:O	1:Nw:266:LYS:N	2.29	0.66
1:Nw:616:SER:OG	1:Nw:620:ARG:NH2	2.29	0.66
2:Pl:63:ASP:OD2	2:RH:147:ASN:ND2	2.28	0.66
2:RI:56:ARG:HB3	2:RI:56:ARG:HH11	1.59	0.66
1:K5:2:THR:OG1	1:K5:3:LEU:N	2.26	0.66
1:K8:641:ASN:HB2	1:K9:626:THR:HG23	1.77	0.66
1:L0:560:LEU:HD21	1:L0:601:ILE:HD11	1.77	0.66
1:L6:373:PHE:HB2	1:L6:405:VAL:HG22	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lz:549:ASP:OD2	1:MU:271:TYR:OH	2.08	0.66
1:M7:514:ARG:NH1	1:M8:366:GLU:OE2	2.28	0.66
1:M8:166:ASN:OD1	1:M8:166:ASN:N	2.29	0.66
1:MX:571:ARG:NH2	1:MX:587:GLU:OE1	2.28	0.66
1:MY:368:VAL:O	1:MY:400:ARG:NH2	2.29	0.66
1:Mb:453:ASN:HB2	1:Mb:506:ALA:HB3	1.78	0.66
1:Me:455:LYS:NZ	1:Me:457:GLN:OE1	2.29	0.66
1:Ng:70:ASN:OD1	1:Ng:455:LYS:NZ	2.28	0.66
1:Nj:353:GLY:HA2	1:Nj:356:MET:HE2	1.76	0.66
1:Nv:459:ASP:OD2	1:Nv:462:ASN:ND2	2.28	0.66
2:Ot:43:ALA:O	2:Ot:162:TRP:NE1	2.28	0.66
2:PD:56:ARG:NH2	2:RD:96:GLY:O	2.27	0.66
2:Pk:23:VAL:HG11	2:Pk:39:THR:HG21	1.78	0.66
1:K2:642:PHE:HE1	1:K3:564:ILE:HD11	1.59	0.66
1:L0:264:THR:O	1:L0:266:LYS:N	2.29	0.66
1:L0:366:GLU:OE2	1:L9:514:ARG:NH1	2.29	0.66
1:Le:241:LYS:NZ	1:Le:274:GLN:O	2.27	0.66
1:M0:2:THR:OG1	1:M0:3:LEU:N	2.22	0.66
1:M6:264:THR:O	1:M6:266:LYS:N	2.29	0.66
1:MQ:34:GLN:O	1:MQ:82:ARG:NH2	2.28	0.66
1:MR:135:ASP:HB3	1:MR:139:LYS:HB2	1.76	0.66
1:Mc:110:TYR:H	1:Mc:138:GLY:HA3	1.61	0.66
1:Nc:29:LEU:O	1:Nc:80:VAL:HA	1.95	0.66
1:Nc:209:ASP:OD1	1:Nc:209:ASP:N	2.14	0.66
1:Nc:455:LYS:HG3	1:Nc:502:VAL:HG13	1.78	0.66
1:Nd:455:LYS:HB3	1:Nd:470:LEU:HD13	1.77	0.66
1:Nw:47:GLU:OE1	1:Nw:461:TYR:OH	2.12	0.66
2:Pl:56:ARG:NH2	2:Rl:96:GLY:O	2.26	0.66
1:K3:571:ARG:NH2	1:K3:587:GLU:OE1	2.29	0.66
1:K7:264:THR:O	1:K7:266:LYS:N	2.28	0.66
1:LR:91:ASN:OD1	1:LR:91:ASN:N	2.22	0.66
1:M1:514:ARG:NH2	1:M2:366:GLU:OE2	2.29	0.66
1:M8:514:ARG:NH1	1:M9:366:GLU:OE2	2.29	0.66
1:Ma:247:GLY:HA2	1:Ma:266:LYS:HG3	1.78	0.66
1:Mb:394:VAL:HG11	1:Mb:443:ILE:HD12	1.77	0.66
2:OI:82:ARG:HH12	2:OI:138:GLY:HA2	1.60	0.66
2:RG:136:ASN:HB3	2:RG:156:THR:HG23	1.77	0.66
2:RJ:14:ASP:OD1	2:RJ:17:ARG:NH2	2.29	0.66
1:L1:100:GLU:HB3	1:L1:188:ILE:HD11	1.78	0.66
1:LX:100:GLU:OE2	1:LX:186:LYS:NZ	2.21	0.66
1:LY:495:ASN:OD1	1:LY:495:ASN:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lv:639:THR:HB	1:Lw:624:VAL:HG12	1.78	0.66
1:Lx:346:SER:O	1:Lx:348:ALA:N	2.29	0.66
1:Lx:378:CYS:SG	1:Lx:454:TYR:OH	2.48	0.66
1:M0:571:ARG:NH2	1:M0:587:GLU:OE1	2.29	0.66
1:M1:105:THR:HB	1:M1:181:VAL:H	1.60	0.66
1:M1:202:GLU:OE1	1:M1:203:ALA:N	2.28	0.66
1:M4:378:CYS:HB2	1:M4:410:PRO:HA	1.78	0.66
1:MQ:253:PRO:HG2	1:MQ:255:TYR:HE1	1.60	0.66
1:MQ:478:CYS:O	1:MQ:555:ARG:NH1	2.28	0.66
1:MW:298:LYS:NZ	1:MW:299:ARG:O	2.29	0.66
1:Ma:427:VAL:O	1:Ma:431:THR:OG1	2.13	0.66
1:NZ:488:TRP:O	1:NZ:552:ASN:ND2	2.29	0.66
1:Nf:264:THR:O	1:Nf:266:LYS:N	2.29	0.66
1:Nf:278:GLN:HG2	1:Nf:296:SER:HB3	1.78	0.66
2:OF:147:ASN:ND2	2:RT:63:ASP:OD2	2.29	0.66
1:K0:331:PRO:HB2	1:K0:334:PHE:HB2	1.77	0.65
1:K3:33:PHE:HA	1:K3:61:THR:HG23	1.78	0.65
1:M0:74:TYR:HD2	1:M0:476:GLY:HA3	1.60	0.65
1:M1:119:LYS:NZ	1:M1:124:ASP:OD1	2.29	0.65
1:M7:36:GLY:O	1:M7:82:ARG:NH1	2.28	0.65
1:MQ:391:LYS:NZ	1:MQ:440:ASN:O	2.28	0.65
1:MQ:619:ASP:OD1	1:MQ:619:ASP:N	2.27	0.65
1:MS:108:SER:OG	1:MS:137:ASP:OD2	2.15	0.65
1:Md:481:THR:HG23	1:Md:496:ARG:HD3	1.77	0.65
1:Mw:264:THR:O	1:Mw:266:LYS:N	2.28	0.65
1:Mz:486:GLN:NE2	2:PF:11:GLU:OE1	2.29	0.65
1:Ng:406:LEU:HD13	1:Ng:475:ALA:HB2	1.78	0.65
1:K4:228:GLY:HA2	1:K4:345:SER:HB3	1.78	0.65
1:L0:312:ASP:OD1	1:L0:312:ASP:N	2.29	0.65
1:LV:375:ALA:HB1	1:LV:390:GLN:HG2	1.77	0.65
1:LW:66:MET:HB3	1:LW:468:VAL:HG11	1.79	0.65
1:LW:639:THR:HB	1:LX:624:VAL:HG12	1.78	0.65
1:Lv:378:CYS:HG	1:Lv:454:TYR:HH	1.39	0.65
1:MY:90:LYS:NZ	1:MY:190:ASP:OD1	2.28	0.65
1:Me:256:PRO:HG2	1:Me:339:THR:H	1.61	0.65
1:NV:488:TRP:O	1:NV:552:ASN:ND2	2.30	0.65
1:Nc:33:PHE:HB2	1:Nc:82:ARG:HG3	1.77	0.65
1:Nc:264:THR:O	1:Nc:266:LYS:N	2.29	0.65
1:Ne:463:ASP:OD1	1:Nf:317:LYS:NZ	2.29	0.65
2:RC:17:ARG:HG3	2:RC:20:LEU:HD12	1.78	0.65
2:Rq:114:ARG:HG2	2:Rq:126:GLU:HG3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K3:135:ASP:HB3	1:K3:139:LYS:HB2	1.79	0.65
1:K5:202:GLU:OE1	1:K5:203:ALA:N	2.29	0.65
1:L4:490:SER:O	1:L4:496:ARG:NH1	2.29	0.65
1:LS:368:VAL:O	1:LS:400:ARG:NH2	2.28	0.65
1:LU:90:LYS:NZ	1:LU:190:ASP:OD1	2.30	0.65
1:LV:205:MET:O	1:LV:211:GLN:NE2	2.25	0.65
1:Lw:601:ILE:HG12	1:Lw:629:ILE:HD12	1.78	0.65
1:MV:135:ASP:HB3	1:MV:139:LYS:HB2	1.78	0.65
1:MV:417:ILE:H	1:MV:417:ILE:HD13	1.61	0.65
1:MW:202:GLU:OE1	1:MW:203:ALA:N	2.29	0.65
1:Mv:639:THR:HB	1:Mw:624:VAL:HG12	1.78	0.65
1:Mw:371:GLN:OE1	1:Mw:562:THR:OG1	2.10	0.65
1:Ne:379:ALA:HA	1:Ne:411:ARG:HB2	1.78	0.65
1:Nw:423:VAL:HG21	1:Nw:513:GLN:HB3	1.78	0.65
2:OK:56:ARG:NH2	2:PK:96:GLY:O	2.29	0.65
2:Ol:98:GLU:OE1	2:Ol:98:GLU:N	2.26	0.65
1:K7:12:GLU:OE2	1:Nh:561:LYS:NZ	2.27	0.65
1:K7:247:GLY:HA2	1:K7:266:LYS:HG3	1.79	0.65
1:Le:400:ARG:NH1	1:Le:403:CYS:SG	2.70	0.65
1:Lw:143:ILE:HD12	1:Lw:145:ILE:HD11	1.78	0.65
1:Lz:118:VAL:HB	1:Lz:126:GLU:HB3	1.78	0.65
1:M5:561:LYS:NZ	1:Nd:12:GLU:OE2	2.27	0.65
1:M6:32:LYS:NZ	1:M6:60:GLU:OE2	2.29	0.65
1:MX:368:VAL:O	1:MX:400:ARG:NH2	2.29	0.65
1:Ma:514:ARG:NH1	1:Mb:366:GLU:OE2	2.29	0.65
1:Md:90:LYS:NZ	1:Md:190:ASP:OD1	2.28	0.65
1:NX:459:ASP:OD2	1:NX:466:ARG:NH1	2.29	0.65
1:Na:127:THR:OG1	1:Na:128:GLU:OE2	2.15	0.65
1:Nb:488:TRP:O	1:Nb:552:ASN:ND2	2.30	0.65
1:Nc:647:THR:O	1:Nd:630:GLN:NE2	2.30	0.65
2:OJ:4:ASP:O	2:OJ:7:THR:OG1	2.13	0.65
2:Ot:96:GLY:O	2:Rt:56:ARG:NH2	2.27	0.65
2:PH:56:ARG:NH2	2:RH:96:GLY:O	2.29	0.65
2:Pr:140:LEU:HD13	2:Pr:153:PHE:HB3	1.77	0.65
1:K7:427:VAL:O	1:K7:431:THR:OG1	2.15	0.65
1:K7:561:LYS:HB3	1:La:10:LEU:HD13	1.77	0.65
1:K9:487:THR:HG21	1:K9:559:MET:HE3	1.77	0.65
1:L0:272:GLY:O	1:L0:274:GLN:NE2	2.29	0.65
1:L0:549:ASP:OD2	1:Me:271:TYR:OH	2.11	0.65
1:L3:110:TYR:H	1:L3:138:GLY:HA3	1.62	0.65
1:L6:198:ILE:HG23	1:L6:324:PHE:HE2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L7:121:VAL:HG13	1:L7:166:ASN:HB3	1.77	0.65
1:Lc:202:GLU:OE1	1:Lc:203:ALA:N	2.29	0.65
1:Lc:453:ASN:HB2	1:Lc:506:ALA:HB3	1.79	0.65
1:Lx:456:TYR:HB3	1:Lx:503:ILE:HG23	1.78	0.65
1:MQ:211:GLN:OE1	1:MQ:329:ASN:ND2	2.26	0.65
1:MY:91:ASN:N	1:MY:91:ASN:OD1	2.29	0.65
1:Md:131:ILE:HD13	1:Md:140:ILE:HG21	1.77	0.65
1:Me:36:GLY:O	1:Me:82:ARG:NH1	2.30	0.65
1:Mx:246:LYS:HB2	1:Mx:250:ALA:HB2	1.79	0.65
1:Mz:371:GLN:OE1	1:Mz:562:THR:OG1	2.12	0.65
1:NZ:82:ARG:NH2	1:NZ:227:PRO:O	2.30	0.65
1:Nf:455:LYS:HB2	1:Nf:470:LEU:HD13	1.78	0.65
2:OK:54:MET:HE3	2:Oq:20:LEU:HA	1.78	0.65
2:PI:23:VAL:HG11	2:PI:39:THR:HG21	1.78	0.65
2:RD:23:VAL:HG11	2:RD:39:THR:HG21	1.78	0.65
2:RI:114:ARG:HG2	2:RI:126:GLU:HG3	1.78	0.65
2:Rk:37:LYS:NZ	2:Rk:152:THR:OG1	2.29	0.65
1:K1:110:TYR:H	1:K1:138:GLY:HA3	1.60	0.65
1:K1:629:ILE:O	1:Nz:645:THR:OG1	2.13	0.65
1:L8:654:LEU:HD13	1:L9:605:ARG:HD3	1.79	0.65
1:LR:11:LYS:HE3	1:LR:13:THR:HG21	1.79	0.65
1:LS:378:CYS:HG	1:LS:454:TYR:HH	1.44	0.65
1:LW:2:THR:OG1	1:LW:3:LEU:N	2.29	0.65
1:LY:277:SER:O	1:LY:296:SER:HA	1.97	0.65
1:Ld:563:ASN:HD22	1:Ld:566:ARG:HH12	1.44	0.65
1:M3:43:GLN:OE1	1:M3:79:ARG:NH1	2.29	0.65
1:M9:455:LYS:HB2	1:M9:470:LEU:HD13	1.79	0.65
1:MV:33:PHE:HA	1:MV:61:THR:HG23	1.77	0.65
1:Ma:264:THR:O	1:Ma:266:LYS:N	2.30	0.65
1:Me:119:LYS:NZ	1:Me:124:ASP:OD1	2.28	0.65
1:Mv:478:CYS:O	1:Mv:555:ARG:NH1	2.29	0.65
1:NZ:379:ALA:HA	1:NZ:411:ARG:HB2	1.77	0.65
1:Nb:406:LEU:HD13	1:Nb:475:ALA:HB2	1.78	0.65
1:Nh:202:GLU:OE1	1:Nh:203:ALA:N	2.30	0.65
2:OC:114:ARG:HG2	2:OC:126:GLU:HG3	1.76	0.65
2:OG:22:GLN:HB2	2:OG:116:TYR:HE2	1.60	0.65
2:Op:70:THR:HG22	2:Op:156:THR:HG22	1.79	0.65
2:Po:49:ILE:HD11	2:RK:150:ILE:HG22	1.78	0.65
2:Pr:63:ASP:OD2	2:RN:147:ASN:ND2	2.29	0.65
2:RF:76:ASP:OD1	2:RF:76:ASP:N	2.23	0.65
2:Rn:67:ASP:OD1	2:Rn:67:ASP:N	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K3:110:TYR:H	1:K3:138:GLY:HA3	1.61	0.65
1:K3:455:LYS:HG3	1:K3:502:VAL:HG13	1.79	0.65
1:K4:26:THR:HA	1:K4:77:ASP:O	1.97	0.65
1:K4:459:ASP:OD2	1:K4:466:ARG:NH1	2.28	0.65
1:LX:278:GLN:HG2	1:LX:296:SER:HB3	1.78	0.65
1:Lb:29:LEU:O	1:Lb:80:VAL:HA	1.97	0.65
1:Lb:400:ARG:NH1	1:Lb:403:CYS:SG	2.69	0.65
1:Lz:256:PRO:HG2	1:Lz:339:THR:H	1.62	0.65
1:M2:33:PHE:HA	1:M2:61:THR:HG23	1.79	0.65
1:M3:486:GLN:NE2	2:PI:11:GLU:OE1	2.30	0.65
1:MZ:467:TRP:HZ3	1:Ma:199:GLU:HB2	1.62	0.65
1:Nb:202:GLU:OE1	1:Nb:203:ALA:N	2.29	0.65
1:Nf:514:ARG:NH1	1:Ng:366:GLU:OE2	2.29	0.65
1:Ni:455:LYS:HG3	1:Ni:502:VAL:HG13	1.79	0.65
1:Nj:617:VAL:HG22	1:Nj:622:GLU:HB2	1.78	0.65
1:Nw:79:ARG:NH2	1:Nw:369:ASP:OD1	2.29	0.65
2:ON:83:GLN:HA	2:ON:86:VAL:HG22	1.78	0.65
2:RN:83:GLN:HA	2:RN:86:VAL:HG22	1.79	0.65
1:K0:119:LYS:NZ	1:K0:124:ASP:OD1	2.30	0.65
1:K7:328:GLN:HG2	1:K7:329:ASN:HD22	1.62	0.65
1:L6:478:CYS:O	1:L6:555:ARG:NH1	2.30	0.65
1:L9:563:ASN:ND2	1:L9:591:TYR:OH	2.25	0.65
1:LQ:29:LEU:HB3	1:LQ:80:VAL:HG23	1.79	0.65
1:LY:514:ARG:NH1	1:LZ:366:GLU:OE2	2.30	0.65
1:Ld:378:CYS:SG	1:Ld:454:TYR:OH	2.53	0.65
1:MQ:206:THR:HA	1:MQ:211:GLN:HE21	1.62	0.65
1:Mv:66:MET:HG2	1:Mv:468:VAL:HG21	1.78	0.65
1:Mw:368:VAL:O	1:Mw:400:ARG:NH2	2.30	0.65
1:NV:2:THR:OG1	1:NV:3:LEU:N	2.30	0.65
1:NZ:211:GLN:OE1	1:NZ:329:ASN:ND2	2.30	0.65
2:Ot:23:VAL:HG11	2:Ot:39:THR:HG21	1.78	0.65
1:K5:463:ASP:OD1	1:K6:317:LYS:NZ	2.30	0.65
1:K6:233:LYS:NZ	1:K6:286:ASN:OD1	2.29	0.65
1:K6:264:THR:O	1:K6:266:LYS:N	2.30	0.65
1:L1:495:ASN:OD1	1:L1:495:ASN:N	2.29	0.65
1:L6:485:SER:OG	1:L6:486:GLN:N	2.29	0.65
1:LW:490:SER:O	1:LW:496:ARG:NH1	2.30	0.65
1:M2:455:LYS:HD3	1:M2:502:VAL:HG22	1.79	0.65
1:M4:23:SER:OG	1:M4:74:TYR:O	2.15	0.65
1:M8:375:ALA:HB1	1:M8:390:GLN:HG2	1.78	0.65
1:NW:645:THR:OG1	1:NX:629:ILE:O	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NZ:140:ILE:O	1:NZ:141:LYS:NZ	2.29	0.65
1:Na:444:SER:OG	1:Na:543:SER:OG	2.13	0.65
1:Na:459:ASP:OD2	1:Na:466:ARG:NH1	2.30	0.65
2:Or:136:ASN:O	2:Or:136:ASN:ND2	2.30	0.65
2:Ot:70:THR:HG22	2:Ot:156:THR:HG22	1.79	0.65
2:PN:14:ASP:OD1	2:PN:17:ARG:NH2	2.28	0.65
2:Po:39:THR:HG22	2:Po:71:VAL:HG13	1.77	0.65
1:K0:438:ASP:OD1	1:K0:438:ASP:N	2.29	0.65
1:K9:455:LYS:HG3	1:K9:502:VAL:HG13	1.79	0.65
1:LU:166:ASN:OD1	1:LU:166:ASN:N	2.14	0.65
1:M7:95:ILE:HD13	1:M7:213:ASN:HB2	1.79	0.65
1:M7:264:THR:O	1:M7:266:LYS:N	2.30	0.65
1:M8:134:VAL:HG12	1:M8:140:ILE:HG22	1.79	0.65
1:MQ:371:GLN:OE1	1:MQ:562:THR:OG1	2.14	0.65
1:MY:256:PRO:HG2	1:MY:339:THR:H	1.60	0.65
1:Mb:119:LYS:HE3	1:Mb:122:SER:HA	1.79	0.65
1:Md:209:ASP:N	1:Md:209:ASP:OD1	2.29	0.65
1:Nc:26:THR:HA	1:Nc:77:ASP:O	1.97	0.65
2:Pr:39:THR:HG22	2:Pr:71:VAL:HG13	1.79	0.65
1:Le:430:ARG:NH2	1:Le:443:ILE:O	2.30	0.64
1:M0:455:LYS:NZ	1:M0:457:GLN:OE1	2.31	0.64
1:M1:33:PHE:HA	1:M1:61:THR:HG23	1.78	0.64
1:M3:271:TYR:OH	1:MX:549:ASP:OD2	2.12	0.64
1:M5:406:LEU:HD22	1:M5:474:ILE:HG13	1.78	0.64
1:M6:485:SER:OG	1:M6:486:GLN:N	2.30	0.64
1:M7:247:GLY:HA2	1:M7:266:LYS:HG3	1.80	0.64
1:MX:100:GLU:OE2	1:MX:186:LYS:NZ	2.26	0.64
1:Mv:104:SER:HB2	1:Mv:181:VAL:HB	1.78	0.64
1:Ne:264:THR:O	1:Ne:266:LYS:N	2.30	0.64
1:Ne:432:ALA:HB2	1:Ne:440:ASN:HD22	1.62	0.64
1:Ng:2:THR:OG1	1:Ng:3:LEU:N	2.29	0.64
1:Ni:645:THR:OG1	1:Nj:629:ILE:O	2.13	0.64
2:Oo:1:MET:HE2	2:PJ:120:ALA:HB1	1.80	0.64
2:Op:82:ARG:HH12	2:Op:138:GLY:HA2	1.62	0.64
2:PC:23:VAL:HG11	2:PC:39:THR:HG21	1.78	0.64
2:PE:2:PHE:HD2	2:RD:97:ASN:HB3	1.61	0.64
2:PI:162:TRP:O	2:Pn:95:GLN:NE2	2.29	0.64
1:K6:430:ARG:NH2	1:K6:443:ILE:O	2.31	0.64
1:L2:235:GLU:OE2	1:L2:261:ARG:NH2	2.30	0.64
1:LQ:202:GLU:OE1	1:LQ:203:ALA:N	2.30	0.64
1:LQ:253:PRO:HG2	1:LQ:255:TYR:HE1	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LR:202:GLU:OE1	1:LR:203:ALA:N	2.29	0.64
1:LU:140:ILE:O	1:LU:141:LYS:NZ	2.30	0.64
1:LX:455:LYS:NZ	1:LX:457:GLN:OE1	2.27	0.64
1:LX:490:SER:O	1:LX:496:ARG:NH1	2.28	0.64
1:Lc:328:GLN:HG2	1:Lc:329:ASN:HD22	1.62	0.64
1:M0:366:GLU:OE2	1:M9:514:ARG:NH1	2.30	0.64
1:M6:23:SER:OG	1:M6:74:TYR:O	2.14	0.64
1:M7:195:LEU:HD13	1:M7:205:MET:HE3	1.78	0.64
1:MW:240:SER:OG	1:MW:243:ASP:OD1	2.16	0.64
1:MX:278:GLN:HG2	1:MX:296:SER:HB3	1.78	0.64
1:Mz:490:SER:O	1:Mz:496:ARG:NH1	2.30	0.64
1:NX:121:VAL:HG13	1:NX:166:ASN:HB3	1.80	0.64
1:Na:26:THR:HA	1:Na:77:ASP:O	1.98	0.64
1:Nd:495:ASN:OD1	1:Nd:495:ASN:N	2.30	0.64
1:L0:235:GLU:OE2	1:L0:261:ARG:NH2	2.25	0.64
1:Lb:264:THR:O	1:Lb:266:LYS:N	2.29	0.64
1:Lx:368:VAL:O	1:Lx:400:ARG:NH2	2.30	0.64
1:M3:455:LYS:HD2	1:M3:502:VAL:HG22	1.79	0.64
1:MU:432:ALA:HB2	1:MU:440:ASN:HD22	1.61	0.64
1:MV:228:GLY:HA2	1:MV:345:SER:HB3	1.79	0.64
1:MY:264:THR:O	1:MY:266:LYS:N	2.30	0.64
1:Mz:468:VAL:HG12	1:Mz:469:PRO:HD2	1.79	0.64
1:NW:159:GLU:O	1:NW:162:THR:N	2.30	0.64
1:Nd:36:GLY:O	1:Nd:82:ARG:NH1	2.30	0.64
1:Ng:239:VAL:HG22	1:Ng:280:ALA:HB3	1.78	0.64
1:Nv:57:PRO:HB3	1:Nv:62:ALA:HA	1.78	0.64
1:Nx:444:SER:OG	1:Nx:543:SER:OG	2.16	0.64
1:Nz:33:PHE:HA	1:Nz:61:THR:HG23	1.79	0.64
2:OI:147:ASN:HA	2:Rn:19:ASN:HD21	1.61	0.64
2:PM:56:ARG:NH2	2:RM:96:GLY:O	2.22	0.64
1:K6:66:MET:HG2	1:K6:468:VAL:HG21	1.80	0.64
1:L4:642:PHE:HE2	1:L5:564:ILE:HD11	1.62	0.64
1:LV:264:THR:O	1:LV:266:LYS:N	2.31	0.64
1:LV:332:GLU:OE1	1:LV:332:GLU:N	2.28	0.64
1:LX:427:VAL:O	1:LX:431:THR:OG1	2.14	0.64
1:Lv:446:THR:OG1	1:Lv:554:ARG:NH2	2.30	0.64
1:Lx:482:ASP:HB2	1:Lx:487:THR:HG22	1.79	0.64
1:M6:444:SER:HG	1:M6:543:SER:HG	1.43	0.64
1:MQ:453:ASN:HB2	1:MQ:506:ALA:HB3	1.79	0.64
1:MS:538:ASP:N	1:MS:538:ASP:OD1	2.28	0.64
1:Me:110:TYR:H	1:Me:138:GLY:HA3	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mv:298:LYS:NZ	1:Mv:299:ARG:O	2.30	0.64
1:Mz:33:PHE:HA	1:Mz:61:THR:HG23	1.80	0.64
1:NV:455:LYS:HB3	1:NV:470:LEU:HD13	1.79	0.64
1:NZ:29:LEU:O	1:NZ:80:VAL:HA	1.97	0.64
1:Nd:110:TYR:H	1:Nd:138:GLY:HA3	1.63	0.64
1:Ni:211:GLN:OE1	1:Ni:329:ASN:ND2	2.30	0.64
1:Nj:383:LEU:HD13	1:Nj:439:ASN:HB2	1.80	0.64
2:OI:14:ASP:OD1	2:OI:17:ARG:NH2	2.25	0.64
2:PC:136:ASN:O	2:PC:136:ASN:ND2	2.31	0.64
2:PF:23:VAL:HG11	2:PF:39:THR:HG21	1.80	0.64
2:PM:63:ASP:OD2	2:Ps:147:ASN:ND2	2.27	0.64
2:Pl:136:ASN:O	2:Pl:136:ASN:ND2	2.30	0.64
2:Ro:39:THR:HG22	2:Ro:71:VAL:HG13	1.78	0.64
1:K2:549:ASP:OD2	1:LW:271:TYR:OH	2.12	0.64
1:K6:455:LYS:HE2	1:K6:502:VAL:HG22	1.79	0.64
1:K7:256:PRO:HG2	1:K7:339:THR:H	1.63	0.64
1:K8:33:PHE:HA	1:K8:61:THR:HG23	1.79	0.64
1:K9:2:THR:OG1	1:K9:3:LEU:N	2.29	0.64
1:LX:368:VAL:O	1:LX:400:ARG:NH2	2.30	0.64
1:Lb:202:GLU:OE1	1:Lb:203:ALA:N	2.31	0.64
1:Lb:430:ARG:NH2	1:Lb:443:ILE:O	2.30	0.64
1:Lb:459:ASP:OD2	1:Lb:466:ARG:NH1	2.30	0.64
1:Lv:102:THR:O	1:Lv:183:THR:N	2.26	0.64
1:M0:494:TYR:O	1:M0:498:GLN:NE2	2.31	0.64
1:M4:228:GLY:HA2	1:M4:345:SER:HB3	1.79	0.64
1:MQ:380:GLY:H	1:MQ:411:ARG:HD2	1.63	0.64
1:MW:455:LYS:NZ	1:MW:457:GLN:OE1	2.30	0.64
1:MZ:100:GLU:HB3	1:MZ:188:ILE:HD11	1.80	0.64
1:Ma:135:ASP:HB3	1:Ma:139:LYS:HB2	1.80	0.64
1:Me:101:TYR:OH	1:Me:216:LYS:O	2.16	0.64
1:Me:432:ALA:HB2	1:Me:440:ASN:HD22	1.62	0.64
1:NV:33:PHE:HA	1:NV:61:THR:HG23	1.80	0.64
1:Nc:478:CYS:O	1:Nc:555:ARG:NH1	2.30	0.64
1:Nd:432:ALA:HB2	1:Nd:440:ASN:HD22	1.62	0.64
1:Nw:488:TRP:HB3	1:Nw:556:LEU:HD13	1.80	0.64
2:OH:54:MET:HE3	2:On:20:LEU:HA	1.80	0.64
2:Oo:49:ILE:HD11	2:PK:150:ILE:HG22	1.78	0.64
2:Oo:100:THR:OG1	2:Oo:101:GLY:N	2.28	0.64
2:Oq:83:GLN:NE2	2:Oq:87:ASP:OD1	2.30	0.64
2:Pp:62:GLY:O	2:Pq:118:ARG:NH2	2.30	0.64
2:RC:136:ASN:O	2:RC:136:ASN:ND2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RM:136:ASN:ND2	2:RM:136:ASN:O	2.31	0.64
1:K6:505:LEU:HD21	1:K6:525:VAL:HG12	1.79	0.64
1:K9:561:LYS:HB3	1:Lc:10:LEU:HD13	1.79	0.64
1:L0:332:GLU:OE1	1:L0:332:GLU:N	2.26	0.64
1:L4:198:ILE:HD11	1:L4:225:LEU:HD11	1.79	0.64
1:L6:365:ARG:HA	1:L6:400:ARG:HH21	1.63	0.64
1:LW:100:GLU:OE2	1:LW:186:LYS:NZ	2.27	0.64
1:La:39:PHE:HE1	1:La:86:ARG:HD2	1.63	0.64
1:M1:166:ASN:OD1	1:M1:166:ASN:N	2.25	0.64
1:M1:366:GLU:OE2	1:Mz:514:ARG:NH1	2.31	0.64
1:M9:271:TYR:OH	1:Md:549:ASP:OD2	2.13	0.64
1:MR:49:ASP:O	1:MR:53:THR:OG1	2.15	0.64
1:MW:264:THR:O	1:MW:266:LYS:N	2.30	0.64
1:NW:494:TYR:HE2	1:NW:528:THR:HG21	1.61	0.64
1:NZ:202:GLU:OE1	1:NZ:203:ALA:N	2.30	0.64
1:Ni:454:TYR:HB3	1:Ni:467:TRP:HD1	1.63	0.64
2:OF:31:ASN:ND2	2:Rk:8:ARG:O	2.31	0.64
2:Oh:23:VAL:HG11	2:Oh:39:THR:HG21	1.80	0.64
2:Po:98:GLU:OE1	2:Po:98:GLU:N	2.29	0.64
2:Pp:67:ASP:OD1	2:Pp:67:ASP:N	2.26	0.64
2:RJ:41:LEU:HD12	2:RJ:127:ILE:HD13	1.80	0.64
1:K0:317:LYS:NZ	1:K9:463:ASP:OD1	2.30	0.64
1:K8:278:GLN:HG2	1:K8:296:SER:HB3	1.79	0.64
1:L3:108:SER:OG	1:L3:137:ASP:OD2	2.16	0.64
1:LR:375:ALA:HB3	1:LR:407:CYS:HA	1.80	0.64
1:La:478:CYS:O	1:La:555:ARG:NH1	2.29	0.64
1:M3:394:VAL:HG11	1:M3:443:ILE:HD12	1.79	0.64
1:M8:121:VAL:HG13	1:M8:166:ASN:HB3	1.79	0.64
1:M9:375:ALA:HB1	1:M9:390:GLN:HG2	1.80	0.64
1:MQ:70:ASN:HD21	1:MQ:455:LYS:HZ1	1.43	0.64
1:Me:199:GLU:OE1	1:Me:200:ASN:ND2	2.31	0.64
1:NZ:104:SER:HG	1:NZ:183:THR:HG1	1.46	0.64
1:Ne:490:SER:O	1:Ne:496:ARG:NH1	2.31	0.64
1:Ni:349:GLU:N	1:Ni:349:GLU:OE1	2.31	0.64
2:OL:41:LEU:HG	2:OL:127:ILE:HD13	1.79	0.64
1:L0:26:THR:HA	1:L0:77:ASP:O	1.98	0.64
1:L1:119:LYS:NZ	1:L1:124:ASP:OD1	2.30	0.64
1:L2:33:PHE:HA	1:L2:61:THR:HG23	1.79	0.64
1:L4:486:GLN:NE2	2:OJ:11:GLU:OE1	2.29	0.64
1:L7:400:ARG:NH1	1:L7:403:CYS:SG	2.71	0.64
1:LW:332:GLU:OE1	1:LW:332:GLU:N	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LX:641:ASN:HB2	1:LY:626:THR:HG23	1.78	0.64
1:LY:198:ILE:HG23	1:LY:324:PHE:HE2	1.62	0.64
1:Lb:617:VAL:HG23	1:Lb:620:ARG:HH21	1.63	0.64
1:Lv:202:GLU:OE1	1:Lv:203:ALA:N	2.26	0.64
1:M4:14:THR:HG22	1:MY:643:VAL:HG13	1.79	0.64
1:MY:571:ARG:NH2	1:MY:587:GLU:OE1	2.31	0.64
1:Md:378:CYS:SG	1:Md:454:TYR:OH	2.55	0.64
1:NW:378:CYS:HB2	1:NW:410:PRO:HA	1.80	0.64
1:Nd:108:SER:HB3	1:Nd:178:LEU:HD11	1.79	0.64
1:Ne:246:LYS:HB2	1:Ne:250:ALA:HB2	1.79	0.64
1:Nz:453:ASN:HB2	1:Nz:506:ALA:HB3	1.78	0.64
2:RE:104:PRO:HA	2:RE:107:TYR:CE1	2.33	0.64
1:K6:496:ARG:NH2	1:K7:574:GLU:OE1	2.31	0.64
1:L3:514:ARG:NH1	1:L4:366:GLU:OE2	2.29	0.64
1:L9:2:THR:OG1	1:L9:3:LEU:N	2.29	0.64
1:LQ:373:PHE:HB2	1:LQ:405:VAL:HG22	1.80	0.64
1:LR:126:GLU:OE2	1:LR:129:GLY:N	2.31	0.64
1:LR:549:ASP:OD2	1:Lw:271:TYR:OH	2.10	0.64
1:LU:264:THR:O	1:LU:266:LYS:N	2.31	0.64
1:LW:264:THR:O	1:LW:266:LYS:N	2.30	0.64
1:Lb:432:ALA:HB2	1:Lb:440:ASN:HD22	1.62	0.64
1:Ld:131:ILE:HD13	1:Ld:140:ILE:HG21	1.80	0.64
1:M2:235:GLU:OE2	1:M2:261:ARG:NH2	2.31	0.64
1:M6:239:VAL:HG22	1:M6:280:ALA:HB3	1.80	0.64
1:MU:264:THR:O	1:MU:266:LYS:N	2.30	0.64
1:Ma:202:GLU:OE1	1:Ma:203:ALA:N	2.31	0.64
1:Mc:131:ILE:HD13	1:Mc:140:ILE:HG21	1.80	0.64
1:Me:353:GLY:HA2	1:Me:356:MET:HE2	1.79	0.64
1:Nv:455:LYS:NZ	1:Nv:457:GLN:OE1	2.23	0.64
1:Nw:105:THR:HB	1:Nw:181:VAL:H	1.63	0.64
1:Nw:463:ASP:OD1	1:Nx:317:LYS:NZ	2.30	0.64
2:Oj:41:LEU:HG	2:Oj:127:ILE:HD13	1.79	0.64
2:Pj:39:THR:HG22	2:Pj:71:VAL:HG22	1.79	0.64
2:RM:23:VAL:HG11	2:RM:39:THR:HG21	1.80	0.64
1:K1:400:ARG:NH1	1:K1:402:ASP:OD1	2.31	0.64
1:K1:540:THR:HG23	1:K1:551:ILE:HG23	1.80	0.64
1:K5:514:ARG:NH1	1:K6:366:GLU:OE1	2.31	0.64
1:LQ:119:LYS:NZ	1:LQ:124:ASP:OD1	2.30	0.64
1:LW:298:LYS:NZ	1:LW:299:ARG:O	2.31	0.64
1:LY:94:PRO:HB2	1:LY:219:ILE:HD12	1.80	0.64
1:M3:566:ARG:HA	1:M3:569:LYS:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M4:66:MET:HG2	1:M4:468:VAL:HG21	1.79	0.64
1:M6:365:ARG:HA	1:M6:400:ARG:HH21	1.61	0.64
1:MQ:202:GLU:OE1	1:MQ:203:ALA:N	2.30	0.64
1:MR:514:ARG:NH1	1:MS:366:GLU:OE2	2.31	0.64
1:MZ:104:SER:HB2	1:MZ:181:VAL:HB	1.79	0.64
1:Mc:453:ASN:HB2	1:Mc:506:ALA:HB3	1.79	0.64
1:Mz:444:SER:OG	1:Mz:543:SER:OG	2.16	0.64
1:NZ:256:PRO:HG2	1:NZ:339:THR:H	1.63	0.64
1:Na:24:THR:O	1:Na:483:ASN:ND2	2.26	0.64
1:Nv:438:ASP:OD1	1:Nv:438:ASP:N	2.25	0.64
2:OJ:17:ARG:HG3	2:OJ:20:LEU:HD12	1.80	0.64
2:PG:14:ASP:OD1	2:PG:17:ARG:NH2	2.24	0.64
2:PH:47:GLU:OE1	2:Pn:148:ASN:ND2	2.20	0.64
2:Pj:49:ILE:HD11	2:RF:150:ILE:HG22	1.80	0.64
2:Pp:14:ASP:OD1	2:Pp:17:ARG:NH2	2.27	0.64
2:RK:70:THR:HG22	2:RK:156:THR:HG22	1.80	0.64
1:K1:82:ARG:NH2	1:K1:227:PRO:O	2.30	0.63
1:K5:247:GLY:HA2	1:K5:266:LYS:HG3	1.80	0.63
1:L3:100:GLU:HB3	1:L3:188:ILE:HD11	1.79	0.63
1:L4:118:VAL:HB	1:L4:126:GLU:HB3	1.79	0.63
1:M2:166:ASN:OD1	1:M2:166:ASN:N	2.28	0.63
1:M9:12:GLU:OE2	1:Me:561:LYS:NZ	2.28	0.63
1:M9:105:THR:HB	1:M9:181:VAL:H	1.63	0.63
1:MR:560:LEU:HD21	1:MR:601:ILE:HD11	1.80	0.63
1:MX:90:LYS:NZ	1:MX:190:ASP:OD1	2.31	0.63
1:Me:511:GLN:NE2	1:Me:515:ASP:OD1	2.31	0.63
1:Mx:451:ASP:OD1	1:Mx:452:GLY:N	2.23	0.63
1:NW:131:ILE:HD13	1:NW:140:ILE:HG21	1.80	0.63
1:Nd:247:GLY:HA2	1:Nd:266:LYS:HG3	1.80	0.63
1:Ne:100:GLU:HB3	1:Ne:188:ILE:HD11	1.81	0.63
2:ON:113:VAL:HG13	2:ON:127:ILE:HG23	1.80	0.63
1:K0:617:VAL:HG22	1:K0:622:GLU:HB2	1.81	0.63
1:K1:368:VAL:O	1:K1:400:ARG:NH2	2.31	0.63
1:L0:617:VAL:HG22	1:L0:622:GLU:HB2	1.79	0.63
1:L8:378:CYS:HG	1:L8:454:TYR:HH	1.22	0.63
1:LW:23:SER:O	1:LW:76:ASN:HB2	1.98	0.63
1:La:368:VAL:O	1:La:400:ARG:NH2	2.29	0.63
1:M3:494:TYR:OH	1:M4:569:LYS:NZ	2.31	0.63
1:MX:424:ASP:O	1:MX:428:ASN:ND2	2.25	0.63
1:MY:166:ASN:OD1	1:MY:166:ASN:N	2.28	0.63
1:Me:121:VAL:HG22	1:Me:166:ASN:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mz:202:GLU:OE1	1:Mz:203:ALA:N	2.30	0.63
1:NW:391:LYS:NZ	1:NW:440:ASN:O	2.31	0.63
1:Nb:90:LYS:NZ	1:Nb:190:ASP:OD1	2.30	0.63
1:Nv:446:THR:OG1	1:Nv:554:ARG:NH2	2.31	0.63
1:Nv:593:GLN:NE2	2:RC:4:ASP:OD2	2.27	0.63
2:On:63:ASP:OD2	2:PJ:147:ASN:ND2	2.31	0.63
2:Ph:54:MET:HE3	2:RD:20:LEU:HA	1.80	0.63
2:RH:118:ARG:N	2:Rm:77:GLU:OE2	2.30	0.63
2:RN:14:ASP:OD1	2:RN:17:ARG:NH2	2.31	0.63
1:K0:163:LEU:HD11	1:K0:187:ILE:HG12	1.81	0.63
1:K6:209:ASP:OD1	1:K6:209:ASP:N	2.31	0.63
1:K9:12:GLU:OE2	1:Nj:561:LYS:NZ	2.28	0.63
1:L0:453:ASN:HB2	1:L0:506:ALA:HB3	1.79	0.63
1:L5:538:ASP:N	1:L5:538:ASP:OD1	2.29	0.63
1:LQ:459:ASP:OD2	1:LQ:466:ARG:NH1	2.32	0.63
1:LR:505:LEU:HD21	1:LR:525:VAL:HG12	1.80	0.63
1:LX:264:THR:O	1:LX:266:LYS:N	2.31	0.63
1:Ld:66:MET:HG2	1:Ld:468:VAL:HG11	1.79	0.63
1:M2:108:SER:OG	1:M2:137:ASP:OD2	2.16	0.63
1:M3:406:LEU:HD13	1:M3:475:ALA:HB2	1.81	0.63
1:M4:444:SER:OG	1:M4:543:SER:OG	2.13	0.63
1:M7:10:LEU:HD13	1:Mc:561:LYS:HD2	1.81	0.63
1:MR:453:ASN:HB2	1:MR:506:ALA:HB3	1.79	0.63
1:MX:29:LEU:O	1:MX:80:VAL:HA	1.97	0.63
1:Ma:107:GLY:HA3	1:Ma:110:TYR:HE2	1.63	0.63
1:Mw:2:THR:OG1	1:Mw:3:LEU:N	2.31	0.63
1:Nb:240:SER:OG	1:Nb:243:ASP:OD1	2.16	0.63
1:Nc:239:VAL:HG22	1:Nc:280:ALA:HB3	1.79	0.63
1:Nj:118:VAL:H	1:Nj:126:GLU:HB3	1.63	0.63
1:Nz:430:ARG:NH2	1:Nz:443:ILE:O	2.29	0.63
2:OG:95:GLN:HG3	2:Rl:64:ARG:NH1	2.13	0.63
2:PG:2:PHE:HD2	2:RF:97:ASN:HB3	1.63	0.63
2:RF:62:GLY:O	2:RG:118:ARG:NH2	2.31	0.63
1:L8:394:VAL:HG11	1:L8:443:ILE:HD12	1.79	0.63
1:LZ:456:TYR:HB3	1:LZ:503:ILE:HG23	1.81	0.63
1:La:66:MET:HG2	1:La:468:VAL:HG21	1.80	0.63
1:MV:332:GLU:OE1	1:MV:332:GLU:N	2.31	0.63
1:MW:488:TRP:O	1:MW:552:ASN:ND2	2.31	0.63
1:Mb:391:LYS:NZ	1:Mb:440:ASN:O	2.31	0.63
1:Mc:427:VAL:HG13	1:Mc:520:GLU:HG3	1.80	0.63
1:Mx:455:LYS:NZ	1:Mx:473:ASP:OD2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NZ:235:GLU:OE2	1:NZ:261:ARG:NH2	2.29	0.63
1:NZ:332:GLU:OE1	1:NZ:332:GLU:N	2.30	0.63
1:Na:495:ASN:OD1	1:Na:495:ASN:N	2.31	0.63
1:Na:514:ARG:NH1	1:Nb:366:GLU:OE2	2.31	0.63
1:Nb:394:VAL:HG11	1:Nb:443:ILE:HD12	1.81	0.63
1:Nh:116:ILE:HD11	1:Nh:131:ILE:HG13	1.81	0.63
2:Ok:136:ASN:O	2:Ok:136:ASN:ND2	2.31	0.63
1:L1:10:LEU:HD13	1:LW:561:LYS:HD2	1.79	0.63
1:L1:166:ASN:OD1	1:L1:166:ASN:N	2.20	0.63
1:L5:264:THR:O	1:L5:266:LYS:N	2.31	0.63
1:LV:90:LYS:NZ	1:LV:190:ASP:OD1	2.27	0.63
1:Lb:275:THR:OG1	1:Lb:276:ASP:N	2.31	0.63
1:Lv:120:TYR:HE1	1:Lv:166:ASN:HD22	1.47	0.63
1:MR:33:PHE:HA	1:MR:61:THR:HG23	1.80	0.63
1:Mb:459:ASP:OD2	1:Mb:466:ARG:NH1	2.32	0.63
1:Mv:119:LYS:HA	1:Mv:124:ASP:HA	1.81	0.63
1:NZ:549:ASP:OD2	1:Nz:271:TYR:OH	2.08	0.63
1:Nx:438:ASP:OD1	1:Nx:438:ASP:N	2.30	0.63
2:OJ:82:ARG:NH1	2:OJ:138:GLY:HA2	2.14	0.63
2:OJ:147:ASN:ND2	2:Rn:63:ASP:OD2	2.31	0.63
2:PJ:39:THR:HG22	2:PJ:71:VAL:HG13	1.80	0.63
2:Pm:114:ARG:HG2	2:Pm:126:GLU:HG3	1.80	0.63
2:Ps:113:VAL:HG13	2:Ps:127:ILE:HG23	1.81	0.63
2:RL:56:ARG:HB3	2:RL:56:ARG:HH11	1.63	0.63
1:K0:455:LYS:HB2	1:K0:470:LEU:HD13	1.80	0.63
1:K5:66:MET:HG2	1:K5:468:VAL:HG11	1.81	0.63
1:L1:198:ILE:HD11	1:L1:225:LEU:HD11	1.81	0.63
1:L2:486:GLN:NE2	2:OH:11:GLU:OE1	2.32	0.63
1:L6:486:GLN:NE2	2:OL:11:GLU:OE1	2.31	0.63
1:LU:202:GLU:OE1	1:LU:203:ALA:N	2.27	0.63
1:Lx:411:ARG:O	1:Lx:415:VAL:HB	1.98	0.63
1:M1:2:THR:OG1	1:M1:3:LEU:N	2.32	0.63
1:MQ:455:LYS:HG3	1:MQ:502:VAL:HG13	1.81	0.63
1:Mv:28:ALA:HB2	1:Mv:370:VAL:HG21	1.79	0.63
1:NV:202:GLU:OE1	1:NV:203:ALA:N	2.31	0.63
1:NZ:26:THR:HA	1:NZ:77:ASP:O	1.99	0.63
1:Na:332:GLU:OE1	1:Na:332:GLU:N	2.27	0.63
1:Ni:33:PHE:HA	1:Ni:61:THR:HG23	1.80	0.63
1:Nv:116:ILE:HD11	1:Nv:131:ILE:HG13	1.79	0.63
1:Nz:110:TYR:H	1:Nz:138:GLY:HA3	1.63	0.63
2:OD:56:ARG:NH2	2:PD:96:GLY:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:118:ARG:N	2:On:77:GLU:OE2	2.31	0.63
2:ON:2:PHE:HD2	2:PM:97:ASN:HB3	1.64	0.63
2:Oj:97:ASN:ND2	2:Rk:4:ASP:OD1	2.31	0.63
2:Ph:56:ARG:HB3	2:Ph:56:ARG:HH11	1.63	0.63
2:RL:114:ARG:HG2	2:RL:126:GLU:HG3	1.79	0.63
1:L3:229:GLU:OE2	1:L3:345:SER:OG	2.13	0.63
1:L9:12:GLU:OE2	1:Le:561:LYS:NZ	2.27	0.63
1:Le:459:ASP:OD2	1:Le:466:ARG:NH1	2.32	0.63
1:Lw:83:ALA:HB2	1:Lw:358:ALA:HB2	1.81	0.63
1:Lz:33:PHE:HA	1:Lz:61:THR:HG23	1.80	0.63
1:M2:639:THR:HB	1:M3:624:VAL:HG12	1.80	0.63
1:M5:561:LYS:HD2	1:Nd:10:LEU:HD13	1.81	0.63
1:M7:119:LYS:NZ	1:M7:124:ASP:OD1	2.32	0.63
1:MQ:617:VAL:HG22	1:MQ:622:GLU:HB2	1.79	0.63
1:MZ:108:SER:OG	1:MZ:109:ASN:OD1	2.16	0.63
1:Md:400:ARG:NH1	1:Md:403:CYS:SG	2.72	0.63
1:Me:617:VAL:HG22	1:Me:622:GLU:HB2	1.81	0.63
1:Nf:166:ASN:N	1:Nf:166:ASN:OD1	2.31	0.63
1:Ni:486:GLN:NE2	2:Pt:11:GLU:OE1	2.32	0.63
1:Nv:560:LEU:HD21	1:Nv:601:ILE:HD11	1.81	0.63
1:Nx:264:THR:O	1:Nx:266:LYS:N	2.32	0.63
1:Nz:438:ASP:OD1	1:Nz:438:ASP:N	2.32	0.63
2:OE:56:ARG:NH2	2:PE:96:GLY:O	2.32	0.63
2:On:8:ARG:O	2:PI:31:ASN:ND2	2.32	0.63
2:Ph:83:GLN:NE2	2:Ph:87:ASP:OD1	2.31	0.63
2:RT:41:LEU:HG	2:RT:127:ILE:HD13	1.80	0.63
1:L7:5:SER:OG	1:Lb:511:GLN:NE2	2.30	0.63
1:LS:108:SER:OG	1:LS:137:ASP:OD2	2.17	0.63
1:Lb:34:GLN:OE1	1:Lb:58:THR:OG1	2.15	0.63
1:Lc:617:VAL:HG22	1:Lc:622:GLU:HB2	1.81	0.63
1:Le:66:MET:HG2	1:Le:468:VAL:HG11	1.81	0.63
1:M4:26:THR:HA	1:M4:77:ASP:O	1.98	0.63
1:M6:135:ASP:OD1	1:M6:136:ALA:N	2.32	0.63
1:M8:2:THR:OG1	1:M8:3:LEU:N	2.31	0.63
1:Ma:33:PHE:HA	1:Ma:61:THR:HG23	1.81	0.63
1:Ma:90:LYS:NZ	1:Ma:190:ASP:OD1	2.32	0.63
1:NV:211:GLN:OE1	1:NV:329:ASN:ND2	2.32	0.63
1:NZ:514:ARG:NH1	1:Na:366:GLU:OE2	2.32	0.63
2:OK:14:ASP:OD1	2:OK:17:ARG:NH2	2.32	0.63
2:Oj:17:ARG:HG3	2:Oj:20:LEU:HD12	1.81	0.63
2:Oj:114:ARG:HG2	2:Oj:126:GLU:HG3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PD:19:ASN:OD1	2:PD:19:ASN:N	2.30	0.63
2:Ps:56:ARG:NH2	2:Rs:96:GLY:O	2.32	0.63
2:RD:140:LEU:HD13	2:RD:153:PHE:HB3	1.81	0.63
2:RE:143:ASP:OD1	2:RE:144:TRP:N	2.32	0.63
1:K0:49:ASP:OD1	1:K0:49:ASP:N	2.32	0.63
1:K6:414:VAL:HG23	1:K6:422:ALA:HB1	1.81	0.63
1:L4:264:THR:O	1:L4:266:LYS:N	2.32	0.63
1:L8:561:LYS:NZ	1:Mb:12:GLU:OE2	2.30	0.63
1:La:494:TYR:O	1:La:498:GLN:NE2	2.32	0.63
1:Lv:114:ASP:OD1	1:Lv:114:ASP:N	2.30	0.63
1:M2:549:ASP:OD2	1:Nb:271:TYR:OH	2.09	0.63
1:MQ:36:GLY:O	1:MQ:82:ARG:NH1	2.30	0.63
1:Ma:110:TYR:H	1:Ma:138:GLY:HA3	1.63	0.63
1:Md:33:PHE:HA	1:Md:61:THR:HG23	1.80	0.63
1:Mv:446:THR:OG1	1:Mv:554:ARG:NH2	2.30	0.63
1:Mz:406:LEU:HD22	1:Mz:474:ILE:HG13	1.81	0.63
1:Ni:368:VAL:O	1:Ni:400:ARG:NH2	2.32	0.63
1:Nx:90:LYS:NZ	1:Nx:190:ASP:OD1	2.31	0.63
2:PI:56:ARG:HB3	2:PI:56:ARG:HH11	1.64	0.63
2:PK:14:ASP:OD1	2:PK:17:ARG:NH2	2.30	0.63
2:PM:64:ARG:NH1	2:Pr:95:GLN:HG3	2.13	0.63
2:RG:46:VAL:HG22	2:RG:64:ARG:HE	1.63	0.63
2:RS:62:GLY:O	2:RT:118:ARG:NH2	2.32	0.63
2:Rt:136:ASN:ND2	2:Rt:136:ASN:O	2.30	0.63
1:K2:66:MET:HG2	1:K2:468:VAL:HG21	1.81	0.62
1:L0:66:MET:HG2	1:L0:468:VAL:HG21	1.80	0.62
1:L5:235:GLU:OE2	1:L5:261:ARG:NH2	2.29	0.62
1:L7:33:PHE:HA	1:L7:61:THR:HG23	1.78	0.62
1:La:172:SER:OG	1:La:174:SER:OG	2.17	0.62
1:Lb:488:TRP:HB3	1:Lb:556:LEU:HD13	1.81	0.62
1:Lv:641:ASN:HB2	1:Lw:626:THR:HG23	1.81	0.62
1:Lz:34:GLN:NE2	1:Lz:56:GLN:O	2.32	0.62
1:M7:40:GLN:H	1:M7:81:VAL:HG23	1.64	0.62
1:MU:423:VAL:HG21	1:MU:513:GLN:HB3	1.80	0.62
1:Md:66:MET:HG2	1:Md:468:VAL:HG21	1.81	0.62
1:Mv:264:THR:O	1:Mv:266:LYS:N	2.32	0.62
1:NV:391:LYS:NZ	1:NV:440:ASN:O	2.32	0.62
1:Nd:57:PRO:HA	1:Nd:61:THR:HB	1.80	0.62
1:Nf:456:TYR:HB3	1:Nf:503:ILE:HG23	1.80	0.62
1:Ng:195:LEU:HD12	1:Ng:201:ALA:HB1	1.81	0.62
2:Ot:41:LEU:HG	2:Ot:127:ILE:HD13	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PL:114:ARG:HG2	2:PL:126:GLU:HG3	1.80	0.62
2:RM:39:THR:HG22	2:RM:71:VAL:HG13	1.81	0.62
2:Rn:82:ARG:HH12	2:Rn:138:GLY:HA2	1.63	0.62
1:K3:438:ASP:N	1:K3:438:ASP:OD1	2.28	0.62
1:L4:378:CYS:SG	1:L4:454:TYR:OH	2.54	0.62
1:Lc:351:THR:HG23	1:Lc:354:ASP:H	1.63	0.62
1:Lw:66:MET:HG2	1:Lw:468:VAL:HG21	1.80	0.62
1:Lz:406:LEU:HD13	1:Lz:475:ALA:HB2	1.80	0.62
1:M8:455:LYS:HD2	1:M8:502:VAL:HG22	1.81	0.62
1:MQ:400:ARG:NH1	1:MQ:403:CYS:SG	2.72	0.62
1:MX:427:VAL:O	1:MX:431:THR:OG1	2.17	0.62
1:Mb:228:GLY:HA2	1:Mb:345:SER:HB3	1.81	0.62
1:Mx:211:GLN:OE1	1:Mx:329:ASN:ND2	2.32	0.62
1:NV:272:GLY:O	1:NV:274:GLN:NE2	2.32	0.62
1:NW:135:ASP:HB3	1:NW:139:LYS:HB2	1.80	0.62
1:NW:561:LYS:NZ	1:Nv:12:GLU:OE2	2.32	0.62
1:Nv:33:PHE:HA	1:Nv:61:THR:HG23	1.80	0.62
2:OC:41:LEU:HG	2:OC:127:ILE:HD13	1.81	0.62
2:Oq:96:GLY:O	2:Rq:56:ARG:NH2	2.24	0.62
2:Ot:136:ASN:ND2	2:Ot:136:ASN:O	2.31	0.62
2:Pk:24:GLU:OE2	2:Pk:33:THR:OG1	2.17	0.62
2:Pn:56:ARG:NH2	2:Rn:96:GLY:O	2.28	0.62
2:Pt:56:ARG:NH2	2:Rt:96:GLY:O	2.23	0.62
2:RJ:24:GLU:OE1	2:RJ:33:THR:OG1	2.17	0.62
2:RN:136:ASN:O	2:RN:136:ASN:ND2	2.32	0.62
1:K4:110:TYR:H	1:K4:138:GLY:HA3	1.64	0.62
1:K6:246:LYS:HB2	1:K6:250:ALA:HB2	1.81	0.62
1:K6:400:ARG:NH1	1:K6:403:CYS:SG	2.71	0.62
1:K7:116:ILE:HG12	1:K7:171:ILE:HG12	1.82	0.62
1:K8:561:LYS:HD2	1:Lb:10:LEU:HD13	1.80	0.62
1:L0:373:PHE:HB2	1:L0:405:VAL:HG22	1.80	0.62
1:L5:514:ARG:NH1	1:L6:366:GLU:OE1	2.31	0.62
1:LQ:159:GLU:HB3	1:LQ:163:LEU:HA	1.81	0.62
1:LR:135:ASP:HB3	1:LR:139:LYS:HB2	1.79	0.62
1:LZ:488:TRP:HB3	1:LZ:556:LEU:HG	1.80	0.62
1:La:134:VAL:HG12	1:La:140:ILE:HG22	1.80	0.62
1:Ld:487:THR:HG21	1:Ld:559:MET:HE3	1.80	0.62
1:M9:427:VAL:O	1:M9:431:THR:OG1	2.15	0.62
1:Md:41:ILE:HD11	1:Md:361:PHE:HB3	1.81	0.62
1:Me:34:GLN:O	1:Me:82:ARG:NH2	2.31	0.62
1:NV:205:MET:O	1:NV:211:GLN:NE2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nd:478:CYS:O	1:Nd:555:ARG:NH1	2.33	0.62
1:Nh:593:GLN:NE2	2:Ps:4:ASP:OD2	2.32	0.62
2:Pm:140:LEU:HD13	2:Pm:153:PHE:HB3	1.80	0.62
1:K4:135:ASP:HB3	1:K4:139:LYS:HB2	1.81	0.62
1:K5:264:THR:O	1:K5:266:LYS:N	2.33	0.62
1:K5:438:ASP:OD1	1:K5:438:ASP:N	2.30	0.62
1:K8:70:ASN:OD1	1:K8:457:GLN:NE2	2.31	0.62
1:L9:261:ARG:HH12	1:L9:337:ILE:HG21	1.63	0.62
1:LQ:417:ILE:H	1:LQ:417:ILE:HD13	1.65	0.62
1:LQ:454:TYR:HB3	1:LQ:467:TRP:HD1	1.64	0.62
1:LX:119:LYS:NZ	1:LX:124:ASP:OD1	2.31	0.62
1:Lx:107:GLY:HA3	1:Lx:110:TYR:HE2	1.64	0.62
1:M4:104:SER:OG	1:M4:183:THR:OG1	2.16	0.62
1:Na:432:ALA:HB2	1:Na:440:ASN:HD22	1.64	0.62
1:Nf:639:THR:HB	1:Ng:624:VAL:HG12	1.81	0.62
2:RD:25:ILE:O	2:RD:27:TYR:N	2.31	0.62
1:K5:486:GLN:NE2	2:RK:11:GLU:OE1	2.32	0.62
1:K6:33:PHE:HA	1:K6:61:THR:HG23	1.81	0.62
1:K7:617:VAL:HA	1:K7:620:ARG:HD2	1.81	0.62
1:K9:116:ILE:HD11	1:K9:131:ILE:HG13	1.81	0.62
1:L0:455:LYS:NZ	1:L0:457:GLN:OE1	2.30	0.62
1:LV:571:ARG:NH2	1:LV:587:GLU:OE1	2.32	0.62
1:LX:131:ILE:HD11	1:LX:171:ILE:HD13	1.80	0.62
1:Lb:490:SER:O	1:Lb:496:ARG:NH1	2.31	0.62
1:M7:391:LYS:NZ	1:M7:440:ASN:O	2.31	0.62
1:MW:406:LEU:HD13	1:MW:475:ALA:HB2	1.82	0.62
1:Nb:247:GLY:HA2	1:Nb:266:LYS:HG3	1.82	0.62
1:Nd:601:ILE:HG12	1:Nd:629:ILE:HD12	1.80	0.62
1:Ne:481:THR:HG23	1:Ne:496:ARG:HD2	1.80	0.62
1:Nf:490:SER:OG	1:Nf:538:ASP:OD2	2.14	0.62
1:Ng:119:LYS:HE3	1:Ng:122:SER:HA	1.80	0.62
2:OC:140:LEU:HD13	2:OC:153:PHE:HB3	1.82	0.62
2:OO:67:ASP:N	2:OO:67:ASP:OD1	2.33	0.62
2:Oj:2:PHE:HD2	2:Pi:97:ASN:HB3	1.65	0.62
2:PL:23:VAL:HG11	2:PL:39:THR:HG21	1.81	0.62
1:L0:119:LYS:HG2	1:L0:124:ASP:HA	1.81	0.62
1:L2:90:LYS:NZ	1:L2:190:ASP:OD1	2.30	0.62
1:L4:391:LYS:NZ	1:L4:440:ASN:O	2.33	0.62
1:L8:209:ASP:OD1	1:L8:209:ASP:N	2.30	0.62
1:L8:244:TYR:CZ	1:L8:266:LYS:HG2	2.35	0.62
1:LU:108:SER:OG	1:LU:137:ASP:OD2	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lb:375:ALA:HB1	1:Lb:390:GLN:HG2	1.81	0.62
1:Ld:345:SER:OG	1:Ld:347:ASN:OD1	2.13	0.62
1:Lw:57:PRO:HB3	1:Lw:62:ALA:HA	1.81	0.62
1:Lz:485:SER:OG	1:Lz:486:GLN:N	2.29	0.62
1:M0:417:ILE:HD13	1:M0:417:ILE:H	1.64	0.62
1:MS:400:ARG:NH1	1:MS:403:CYS:SG	2.69	0.62
1:MY:455:LYS:HB2	1:MY:470:LEU:HD13	1.80	0.62
1:Md:134:VAL:HG12	1:Md:140:ILE:HG22	1.81	0.62
1:Md:264:THR:O	1:Md:266:LYS:N	2.32	0.62
1:Nb:269:PHE:CE2	1:Nb:280:ALA:HB1	2.35	0.62
1:Nx:110:TYR:H	1:Nx:138:GLY:HA3	1.64	0.62
2:Po:140:LEU:HD13	2:Po:153:PHE:HB3	1.81	0.62
1:K9:423:VAL:HG21	1:K9:513:GLN:HB3	1.82	0.62
1:L4:560:LEU:HD21	1:L4:601:ILE:HD11	1.81	0.62
1:LU:33:PHE:HA	1:LU:61:THR:HG23	1.81	0.62
1:La:33:PHE:HA	1:La:61:THR:HG23	1.80	0.62
1:Ld:478:CYS:O	1:Ld:555:ARG:NH1	2.31	0.62
1:MR:119:LYS:NZ	1:MR:124:ASP:OD1	2.32	0.62
1:Md:432:ALA:HB2	1:Md:440:ASN:HD22	1.65	0.62
1:NX:36:GLY:O	1:NX:82:ARG:NH1	2.30	0.62
1:Nx:368:VAL:O	1:Nx:400:ARG:NH2	2.31	0.62
1:Nz:380:GLY:H	1:Nz:411:ARG:HD2	1.62	0.62
2:Ol:82:ARG:HH11	2:Ol:138:GLY:HA2	1.64	0.62
2:RL:23:VAL:HG11	2:RL:39:THR:HG21	1.82	0.62
1:K4:202:GLU:OE1	1:K4:203:ALA:N	2.33	0.62
1:K7:368:VAL:O	1:K7:400:ARG:NH2	2.32	0.62
1:LR:236:ILE:HD11	1:LR:323:ILE:HG21	1.80	0.62
1:LZ:481:THR:HG23	1:LZ:496:ARG:HD2	1.81	0.62
1:M3:33:PHE:HA	1:M3:61:THR:HG23	1.82	0.62
1:M3:200:ASN:OD1	1:M3:200:ASN:N	2.32	0.62
1:M5:450:ILE:HD13	1:M5:522:ILE:HG12	1.82	0.62
1:MZ:166:ASN:OD1	1:MZ:166:ASN:N	2.20	0.62
1:MZ:406:LEU:HD13	1:MZ:475:ALA:HB2	1.82	0.62
1:MZ:430:ARG:NH2	1:MZ:443:ILE:O	2.33	0.62
1:Mc:456:TYR:HB3	1:Mc:503:ILE:HG23	1.82	0.62
1:Mv:40:GLN:H	1:Mv:81:VAL:HG23	1.63	0.62
1:Mz:561:LYS:HB3	1:NX:10:LEU:HD13	1.82	0.62
1:Nb:596:LYS:NZ	1:Nb:602:TYR:O	2.33	0.62
1:Nf:34:GLN:OE1	1:Nf:58:THR:OG1	2.17	0.62
1:Nf:478:CYS:O	1:Nf:555:ARG:NH1	2.32	0.62
1:Ng:487:THR:HG21	1:Ng:559:MET:HE3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nh:410:PRO:O	1:Nh:413:THR:HG22	2.00	0.62
2:OM:97:ASN:HB3	2:RN:2:PHE:HD2	1.65	0.62
2:Oj:98:GLU:OE1	2:Oj:98:GLU:N	2.27	0.62
2:Ok:72:THR:HG22	2:Ok:154:GLU:HG3	1.82	0.62
2:Ok:143:ASP:OD1	2:Ok:144:TRP:N	2.32	0.62
2:Ph:143:ASP:OD2	2:Ph:146:SER:N	2.30	0.62
2:Pk:103:LYS:N	2:Pk:106:GLU:OE2	2.32	0.62
2:RD:37:LYS:NZ	2:RD:152:THR:OG1	2.32	0.62
1:K1:406:LEU:HD13	1:K1:475:ALA:HB2	1.81	0.62
1:K3:400:ARG:NH1	1:K3:402:ASP:OD1	2.33	0.62
1:K3:417:ILE:H	1:K3:417:ILE:HD13	1.65	0.62
1:K4:66:MET:HG2	1:K4:468:VAL:HG21	1.81	0.62
1:L6:166:ASN:OD1	1:L6:166:ASN:N	2.30	0.62
1:L8:271:TYR:OH	1:Lc:549:ASP:OD2	2.16	0.62
1:LU:467:TRP:HZ3	1:LV:199:GLU:HB2	1.64	0.62
1:LY:36:GLY:O	1:LY:82:ARG:NH1	2.33	0.62
1:LY:368:VAL:O	1:LY:400:ARG:NH2	2.33	0.62
1:Ld:16:GLN:HE22	1:Ld:460:LYS:HB2	1.64	0.62
1:Lv:635:ILE:HD13	1:Lw:623:PHE:HB2	1.82	0.62
1:Lw:368:VAL:O	1:Lw:400:ARG:NH2	2.32	0.62
1:M5:90:LYS:NZ	1:M5:190:ASP:OD1	2.33	0.62
1:M6:453:ASN:N	1:M6:453:ASN:OD1	2.32	0.62
1:M9:228:GLY:HA2	1:M9:345:SER:HB3	1.81	0.62
1:MZ:159:GLU:O	1:MZ:162:THR:N	2.32	0.62
1:Me:33:PHE:HA	1:Me:61:THR:HG23	1.82	0.62
1:Mw:254:ILE:HA	1:Mw:337:ILE:HB	1.81	0.62
1:Nc:560:LEU:O	1:Nc:564:ILE:HG12	1.99	0.62
2:OH:72:THR:HG22	2:OH:154:GLU:HG3	1.80	0.62
2:ON:96:GLY:O	2:RN:56:ARG:NH2	2.32	0.62
1:K4:391:LYS:NZ	1:K4:440:ASN:O	2.33	0.62
1:K5:391:LYS:NZ	1:K5:440:ASN:O	2.32	0.62
1:L1:120:TYR:HE1	1:L1:166:ASN:HD22	1.48	0.62
1:L3:494:TYR:OH	1:L4:569:LYS:NZ	2.33	0.62
1:L6:10:LEU:HD22	1:Lb:561:LYS:HG2	1.80	0.62
1:LS:538:ASP:N	1:LS:538:ASP:OD1	2.32	0.62
1:LW:455:LYS:HD3	1:LW:502:VAL:HG22	1.81	0.62
1:La:2:THR:OG1	1:La:3:LEU:N	2.33	0.62
1:La:239:VAL:HG22	1:La:280:ALA:HB3	1.82	0.62
1:Ld:494:TYR:O	1:Ld:498:GLN:NE2	2.33	0.62
1:Ld:505:LEU:HD22	1:Ld:533:TYR:HD2	1.64	0.62
1:MQ:164:GLY:H	1:MQ:167:TRP:CD1	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MU:108:SER:OG	1:MU:137:ASP:OD2	2.18	0.62
1:MW:332:GLU:OE1	1:MW:332:GLU:N	2.27	0.62
1:MZ:246:LYS:HB2	1:MZ:250:ALA:HB2	1.82	0.62
1:MZ:505:LEU:HD21	1:MZ:525:VAL:HG12	1.82	0.62
1:Ma:455:LYS:HD2	1:Ma:502:VAL:HG22	1.82	0.62
1:Mx:400:ARG:NH1	1:Mx:402:ASP:OD1	2.33	0.62
1:Nw:601:ILE:HG12	1:Nw:629:ILE:HD12	1.82	0.62
2:Or:2:PHE:HD1	2:Pq:97:ASN:HB3	1.65	0.62
2:PD:143:ASP:OD1	2:PD:144:TRP:N	2.33	0.62
2:PM:140:LEU:HD11	2:PM:151:GLN:HG2	1.81	0.62
2:Ph:19:ASN:N	2:Ph:19:ASN:OD1	2.33	0.62
1:K1:417:ILE:H	1:K1:417:ILE:HD13	1.65	0.61
1:K3:271:TYR:OH	1:Nc:549:ASP:OD2	2.14	0.61
1:L4:237:GLU:OE1	1:L4:284:ARG:NH1	2.32	0.61
1:L6:26:THR:HA	1:L6:77:ASP:O	2.00	0.61
1:L7:228:GLY:HA2	1:L7:345:SER:HB3	1.82	0.61
1:LQ:240:SER:OG	1:LQ:243:ASP:OD1	2.17	0.61
1:LS:271:TYR:OH	1:Nx:549:ASP:OD2	2.11	0.61
1:LV:24:THR:O	1:LV:483:ASN:ND2	2.32	0.61
1:LZ:639:THR:HB	1:La:624:VAL:HG12	1.81	0.61
1:Ld:209:ASP:OD1	1:Ld:209:ASP:N	2.33	0.61
1:M0:317:LYS:NZ	1:M9:463:ASP:OD1	2.33	0.61
1:M4:654:LEU:HD22	1:M5:605:ARG:HH11	1.64	0.61
1:M7:368:VAL:O	1:M7:400:ARG:NH2	2.33	0.61
1:Mc:166:ASN:OD1	1:Mc:166:ASN:N	2.34	0.61
1:Me:400:ARG:NH1	1:Me:403:CYS:SG	2.73	0.61
1:NV:140:ILE:O	1:NV:141:LYS:NZ	2.33	0.61
1:NV:400:ARG:NH1	1:NV:403:CYS:SG	2.73	0.61
1:NX:22:ASN:ND2	1:NX:76:ASN:OD1	2.33	0.61
1:Nw:490:SER:O	1:Nw:496:ARG:NH1	2.33	0.61
2:Oi:97:ASN:HB3	2:RT:2:PHE:HD2	1.64	0.61
2:Oo:14:ASP:OD1	2:Oo:17:ARG:NH2	2.31	0.61
2:RM:14:ASP:OD1	2:RM:17:ARG:NH2	2.33	0.61
1:K2:108:SER:OG	1:K2:137:ASP:OD2	2.18	0.61
1:K4:100:GLU:HB3	1:K4:188:ILE:HD11	1.82	0.61
1:K9:383:LEU:HD22	1:K9:439:ASN:HB3	1.80	0.61
1:LS:455:LYS:NZ	1:LS:473:ASP:OD2	2.33	0.61
1:LZ:70:ASN:OD1	1:LZ:457:GLN:NE2	2.32	0.61
1:LZ:137:ASP:OD1	1:LZ:138:GLY:N	2.32	0.61
1:Lw:647:THR:O	1:Lx:630:GLN:NE2	2.33	0.61
1:M4:490:SER:O	1:M4:496:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MR:617:VAL:HG22	1:MR:622:GLU:HB2	1.82	0.61
1:MX:417:ILE:H	1:MX:417:ILE:HD13	1.65	0.61
1:Mv:510:ARG:HG2	1:Mv:511:GLN:H	1.65	0.61
1:Nd:166:ASN:OD1	1:Nd:166:ASN:N	2.30	0.61
2:OM:54:MET:O	2:OM:56:ARG:N	2.33	0.61
2:Oj:139:GLU:OE2	2:Oj:141:GLN:NE2	2.33	0.61
2:RJ:63:ASP:OD2	2:Rp:147:ASN:ND2	2.33	0.61
2:Rk:106:GLU:O	2:Rk:109:LYS:NZ	2.29	0.61
1:K0:488:TRP:HB3	1:K0:556:LEU:HD13	1.81	0.61
1:K1:620:ARG:HB2	1:K1:622:GLU:HG3	1.81	0.61
1:K3:455:LYS:HD2	1:K3:502:VAL:HG22	1.82	0.61
1:K4:400:ARG:NH1	1:K4:403:CYS:SG	2.73	0.61
1:K6:406:LEU:HD22	1:K6:474:ILE:HG13	1.80	0.61
1:L3:198:ILE:HG23	1:L3:324:PHE:HE2	1.65	0.61
1:L5:463:ASP:OD1	1:L6:317:LYS:NZ	2.33	0.61
1:L8:26:THR:HA	1:L8:77:ASP:O	2.00	0.61
1:L8:228:GLY:HA2	1:L8:345:SER:HB3	1.82	0.61
1:LQ:380:GLY:H	1:LQ:411:ARG:HD2	1.66	0.61
1:LV:228:GLY:HA2	1:LV:345:SER:HB3	1.83	0.61
1:LY:116:ILE:HG12	1:LY:171:ILE:HG12	1.82	0.61
1:Ld:490:SER:O	1:Ld:496:ARG:NH1	2.26	0.61
1:Lz:432:ALA:HB2	1:Lz:440:ASN:HD22	1.65	0.61
1:M1:455:LYS:HD2	1:M1:502:VAL:HG22	1.82	0.61
1:M4:400:ARG:NH1	1:M4:403:CYS:SG	2.73	0.61
1:M7:39:PHE:HE1	1:M7:86:ARG:HD2	1.65	0.61
1:M9:10:LEU:HD22	1:Me:561:LYS:HG2	1.82	0.61
1:Nb:566:ARG:HA	1:Nb:569:LYS:HD2	1.82	0.61
1:Nd:366:GLU:OE1	1:Nd:367:SER:N	2.33	0.61
1:Nh:272:GLY:O	1:Nh:274:GLN:NE2	2.33	0.61
1:Nj:205:MET:O	1:Nj:211:GLN:NE2	2.27	0.61
2:Oo:23:VAL:HG11	2:Oo:39:THR:HG21	1.82	0.61
2:PN:63:ASP:OD2	2:Pt:147:ASN:ND2	2.33	0.61
2:Pn:67:ASP:OD1	2:Pn:67:ASP:N	2.21	0.61
2:RE:114:ARG:HG2	2:RE:126:GLU:HG3	1.82	0.61
1:K0:33:PHE:HA	1:K0:61:THR:HG23	1.82	0.61
1:K7:83:ALA:HB2	1:K7:358:ALA:HB2	1.83	0.61
1:L2:549:ASP:OD2	1:MW:271:TYR:OH	2.13	0.61
1:L5:90:LYS:NZ	1:L5:190:ASP:OD1	2.34	0.61
1:L8:57:PRO:HB3	1:L8:62:ALA:HA	1.82	0.61
1:LQ:375:ALA:HB3	1:LQ:407:CYS:HA	1.83	0.61
1:LQ:454:TYR:HB3	1:LQ:467:TRP:CD1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lv:143:ILE:HD12	1:Lv:145:ILE:HD11	1.83	0.61
1:Lw:400:ARG:NH1	1:Lw:403:CYS:SG	2.73	0.61
1:Lz:26:THR:HA	1:Lz:77:ASP:O	2.00	0.61
1:M3:549:ASP:OD2	1:Nc:271:TYR:OH	2.12	0.61
1:M7:108:SER:OG	1:M7:137:ASP:OD2	2.14	0.61
1:MR:47:GLU:OE1	1:MR:461:TYR:OH	2.15	0.61
1:MV:90:LYS:NZ	1:MV:190:ASP:OD1	2.33	0.61
1:Ma:485:SER:OG	1:Ma:486:GLN:N	2.31	0.61
1:NV:378:CYS:HB3	1:NV:410:PRO:HA	1.83	0.61
1:Nv:365:ARG:HA	1:Nv:400:ARG:HH21	1.64	0.61
2:PD:114:ARG:HG2	2:PD:126:GLU:HG3	1.81	0.61
1:K0:74:TYR:HD2	1:K0:476:GLY:HA3	1.65	0.61
1:K3:120:TYR:HE2	1:K3:157:VAL:HG11	1.66	0.61
1:K7:121:VAL:HG13	1:K7:166:ASN:HB3	1.83	0.61
1:L0:406:LEU:HD13	1:L0:475:ALA:HB2	1.82	0.61
1:L6:455:LYS:HB2	1:L6:470:LEU:HD13	1.82	0.61
1:LR:2:THR:OG1	1:LR:3:LEU:N	2.31	0.61
1:LU:456:TYR:HB3	1:LU:503:ILE:HG23	1.82	0.61
1:Ld:246:LYS:HB2	1:Ld:250:ALA:HB2	1.81	0.61
1:Lz:612:ASN:HB3	1:Lz:624:VAL:HG23	1.81	0.61
1:M1:12:GLU:OE2	1:MW:561:LYS:NZ	2.31	0.61
1:M4:566:ARG:HA	1:M4:569:LYS:HD2	1.83	0.61
1:M6:561:LYS:HB3	1:Ne:10:LEU:HD13	1.82	0.61
1:M8:244:TYR:CZ	1:M8:266:LYS:HG2	2.34	0.61
1:MW:478:CYS:O	1:MW:555:ARG:NH1	2.33	0.61
1:Mv:70:ASN:OD1	1:Mv:457:GLN:NE2	2.21	0.61
1:Mw:246:LYS:HB2	1:Mw:250:ALA:HB2	1.82	0.61
1:Nd:66:MET:HG2	1:Nd:468:VAL:HG21	1.83	0.61
1:Ne:2:THR:OG1	1:Ne:3:LEU:N	2.32	0.61
1:Nf:28:ALA:HB2	1:Nf:370:VAL:HG21	1.82	0.61
1:Nh:379:ALA:HA	1:Nh:411:ARG:HB2	1.83	0.61
1:Nh:453:ASN:HB2	1:Nh:506:ALA:HB3	1.81	0.61
1:Nz:620:ARG:NH1	1:Nz:622:GLU:OE2	2.32	0.61
2:PN:83:GLN:HA	2:PN:86:VAL:HG22	1.82	0.61
2:Pl:64:ARG:NH1	2:RG:95:GLN:HG3	2.16	0.61
1:K1:488:TRP:HB3	1:K1:556:LEU:HD13	1.82	0.61
1:K3:108:SER:OG	1:K3:137:ASP:OD2	2.18	0.61
1:K4:495:ASN:OD1	1:K4:495:ASN:N	2.31	0.61
1:LU:66:MET:HG2	1:LU:468:VAL:HG21	1.80	0.61
1:Le:373:PHE:HB2	1:Le:405:VAL:HG22	1.82	0.61
1:Lx:118:VAL:HB	1:Lx:126:GLU:HB3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M2:110:TYR:H	1:M2:138:GLY:HA3	1.66	0.61
1:MU:33:PHE:HA	1:MU:61:THR:HG23	1.82	0.61
1:MU:211:GLN:OE1	1:MU:329:ASN:ND2	2.32	0.61
1:Mv:135:ASP:HB3	1:Mv:139:LYS:HB2	1.82	0.61
1:Ne:34:GLN:OE1	1:Ne:58:THR:OG1	2.17	0.61
1:Ne:137:ASP:OD1	1:Ne:138:GLY:N	2.30	0.61
2:Pp:136:ASN:ND2	2:Pp:136:ASN:O	2.34	0.61
2:RC:58:ILE:HD12	2:RD:6:VAL:HG21	1.82	0.61
2:RC:72:THR:HG22	2:RC:154:GLU:HG3	1.82	0.61
2:RG:91:ILE:HG22	2:RG:107:TYR:HB3	1.82	0.61
2:Rr:140:LEU:HD13	2:Rr:153:PHE:HB3	1.80	0.61
1:K1:90:LYS:NZ	1:K1:190:ASP:OD1	2.33	0.61
1:K4:104:SER:OG	1:K4:183:THR:OG1	2.18	0.61
1:L5:281:ILE:HG13	1:L5:295:LEU:HD12	1.81	0.61
1:LU:239:VAL:HG22	1:LU:280:ALA:HB3	1.80	0.61
1:Lx:467:TRP:HZ3	1:Lz:199:GLU:HB2	1.66	0.61
1:M7:127:THR:OG1	1:M7:128:GLU:OE2	2.18	0.61
1:M7:140:ILE:O	1:M7:141:LYS:NZ	2.34	0.61
1:M7:566:ARG:HA	1:M7:569:LYS:HD2	1.81	0.61
1:Mc:278:GLN:HG2	1:Mc:296:SER:HB2	1.83	0.61
1:Md:26:THR:HA	1:Md:77:ASP:O	1.99	0.61
1:Mz:134:VAL:HG12	1:Mz:140:ILE:HA	1.82	0.61
1:Nc:33:PHE:HA	1:Nc:61:THR:HG23	1.83	0.61
1:Ne:43:GLN:NE2	1:Ne:77:ASP:OD1	2.34	0.61
2:Oo:28:LEU:HD22	2:Oo:84:LYS:HB3	1.82	0.61
2:PD:147:ASN:OD1	2:PD:147:ASN:N	2.33	0.61
2:PH:136:ASN:O	2:PH:136:ASN:ND2	2.33	0.61
2:PL:14:ASP:OD1	2:PL:17:ARG:NH2	2.33	0.61
2:PM:39:THR:HG22	2:PM:71:VAL:HG13	1.81	0.61
2:RJ:140:LEU:HD11	2:RJ:151:GLN:HG2	1.83	0.61
1:K6:481:THR:HG23	1:K6:496:ARG:HD3	1.83	0.61
1:K7:29:LEU:O	1:K7:80:VAL:HA	2.00	0.61
1:K7:36:GLY:O	1:K7:82:ARG:NH1	2.34	0.61
1:L2:642:PHE:HE1	1:L3:564:ILE:HD11	1.65	0.61
1:L9:271:TYR:OH	1:Ld:549:ASP:OD2	2.17	0.61
1:LZ:467:TRP:CZ3	1:La:199:GLU:HB2	2.36	0.61
1:Lb:495:ASN:OD1	1:Lb:495:ASN:N	2.34	0.61
1:Lw:463:ASP:OD1	1:Lx:317:LYS:NZ	2.23	0.61
1:M5:394:VAL:HG11	1:M5:443:ILE:HD12	1.83	0.61
1:MU:380:GLY:H	1:MU:411:ARG:HD2	1.65	0.61
1:MY:571:ARG:NH1	1:MY:583:SER:OG	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ma:172:SER:OG	1:Ma:174:SER:OG	2.18	0.61
1:Me:488:TRP:HB3	1:Me:556:LEU:HD13	1.81	0.61
1:NV:26:THR:HA	1:NV:77:ASP:O	2.01	0.61
1:NW:91:ASN:N	1:NW:91:ASN:OD1	2.34	0.61
1:NW:107:GLY:HA3	1:NW:110:TYR:HE2	1.66	0.61
1:Nb:438:ASP:OD1	1:Nb:438:ASP:N	2.33	0.61
1:Nz:198:ILE:HG23	1:Nz:324:PHE:HE2	1.65	0.61
2:OI:120:ALA:HB1	2:Rn:1:MET:HE2	1.83	0.61
2:Ot:24:GLU:OE1	2:Ot:114:ARG:NH1	2.27	0.61
2:PN:140:LEU:HD13	2:PN:153:PHE:HB3	1.81	0.61
2:Pi:3:VAL:HG12	2:RR:97:ASN:HA	1.81	0.61
2:Rq:23:VAL:HG11	2:Rq:39:THR:HG21	1.82	0.61
1:K6:278:GLN:HG2	1:K6:296:SER:HB3	1.83	0.61
1:K7:41:ILE:HD11	1:K7:361:PHE:HB3	1.83	0.61
1:L7:10:LEU:HD13	1:Lc:561:LYS:HD2	1.83	0.61
1:LU:478:CYS:O	1:LU:555:ARG:NH1	2.34	0.61
1:La:351:THR:OG1	1:La:352:ALA:N	2.33	0.61
1:MQ:406:LEU:HD13	1:MQ:475:ALA:HB2	1.82	0.61
1:MR:378:CYS:SG	1:MR:454:TYR:OH	2.56	0.61
1:MS:392:HIS:O	1:MS:395:SER:OG	2.17	0.61
1:Mb:33:PHE:HA	1:Mb:61:THR:HG23	1.83	0.61
1:Mv:137:ASP:OD1	1:Mv:137:ASP:N	2.33	0.61
1:Nx:47:GLU:OE1	1:Nx:461:TYR:OH	2.17	0.61
1:Nz:105:THR:HB	1:Nz:181:VAL:H	1.66	0.61
2:OM:82:ARG:NH1	2:OM:138:GLY:HA2	2.16	0.61
2:Oq:114:ARG:HG2	2:Oq:126:GLU:HG3	1.82	0.61
2:Pl:23:VAL:HG11	2:Pl:39:THR:HG21	1.83	0.61
2:Pq:104:PRO:O	2:Pq:108:LYS:HB2	2.00	0.61
1:L0:104:SER:OG	1:L0:183:THR:OG1	2.16	0.61
1:L9:438:ASP:OD1	1:L9:438:ASP:N	2.34	0.61
1:LZ:104:SER:HG	1:LZ:183:THR:HG1	1.48	0.61
1:LZ:209:ASP:N	1:LZ:209:ASP:OD1	2.33	0.61
1:M7:332:GLU:OE1	1:M7:332:GLU:N	2.29	0.61
1:MR:375:ALA:HB3	1:MR:407:CYS:HA	1.82	0.61
1:MV:108:SER:OG	1:MV:137:ASP:OD2	2.15	0.61
1:MY:222:VAL:HG13	1:MY:325:ALA:HB2	1.82	0.61
1:Mv:488:TRP:HB3	1:Mv:556:LEU:HD12	1.81	0.61
1:Nv:193:ILE:HG12	1:Nv:205:MET:HE3	1.82	0.61
2:OC:67:ASP:N	2:OC:67:ASP:OD1	2.33	0.61
2:PC:39:THR:HG22	2:PC:71:VAL:HG13	1.82	0.61
2:PF:72:THR:HG22	2:PF:154:GLU:HG3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pt:98:GLU:OE1	2:Pt:98:GLU:N	2.34	0.61
2:RK:54:MET:HE3	2:Rq:20:LEU:HA	1.83	0.61
1:K1:561:LYS:HD2	1:LU:10:LEU:HD13	1.83	0.60
1:K3:485:SER:OG	1:K3:486:GLN:N	2.32	0.60
1:L7:36:GLY:O	1:L7:82:ARG:NH1	2.33	0.60
1:LX:33:PHE:HA	1:LX:61:THR:HG23	1.83	0.60
1:LZ:641:ASN:HB2	1:La:626:THR:HG23	1.83	0.60
1:Lb:455:LYS:HD2	1:Lb:457:GLN:HB2	1.83	0.60
1:Lw:514:ARG:NH1	1:Lx:366:GLU:OE2	2.34	0.60
1:M1:479:ALA:O	1:M1:483:ASN:ND2	2.33	0.60
1:M4:29:LEU:O	1:M4:80:VAL:HA	2.00	0.60
1:MR:427:VAL:O	1:MR:431:THR:OG1	2.13	0.60
1:MU:82:ARG:NH2	1:MU:227:PRO:O	2.34	0.60
1:MU:486:GLN:NE2	2:Ok:11:GLU:OE1	2.33	0.60
1:MY:495:ASN:OD1	1:MY:495:ASN:N	2.29	0.60
1:Me:108:SER:OG	1:Me:137:ASP:OD2	2.19	0.60
1:Mw:83:ALA:HB2	1:Mw:358:ALA:HB2	1.83	0.60
1:NV:240:SER:OG	1:NV:243:ASP:OD1	2.19	0.60
1:Ni:134:VAL:HG12	1:Ni:140:ILE:HG22	1.82	0.60
2:Pn:23:VAL:HG11	2:Pn:39:THR:HG21	1.81	0.60
1:K2:378:CYS:SG	1:K2:454:TYR:OH	2.57	0.60
1:L2:57:PRO:HB3	1:L2:62:ALA:HA	1.84	0.60
1:L6:264:THR:O	1:L6:266:LYS:N	2.35	0.60
1:LW:135:ASP:HB3	1:LW:139:LYS:HB2	1.83	0.60
1:LW:406:LEU:HD13	1:LW:475:ALA:HB2	1.83	0.60
1:LX:654:LEU:HD22	1:LY:605:ARG:HD3	1.82	0.60
1:Lc:427:VAL:O	1:Lc:431:THR:OG1	2.19	0.60
1:Ld:281:ILE:HG13	1:Ld:295:LEU:HD12	1.83	0.60
1:M1:235:GLU:OE2	1:M1:261:ARG:NH2	2.25	0.60
1:M8:561:LYS:HD2	1:Ng:10:LEU:HD13	1.82	0.60
1:M9:2:THR:OG1	1:M9:3:LEU:N	2.28	0.60
1:Mb:239:VAL:HG23	1:Mb:280:ALA:HB3	1.84	0.60
1:Md:645:THR:OG1	1:Me:629:ILE:O	2.18	0.60
1:Ne:206:THR:HA	1:Ne:211:GLN:HE21	1.65	0.60
1:Nh:76:ASN:O	1:Nh:76:ASN:ND2	2.33	0.60
1:Nh:391:LYS:NZ	1:Nh:440:ASN:O	2.33	0.60
1:Nw:406:LEU:HD13	1:Nw:475:ALA:HB2	1.83	0.60
2:OL:17:ARG:HG3	2:OL:20:LEU:HD12	1.83	0.60
2:OL:149:GLU:HB3	2:Rq:18:PRO:HG3	1.83	0.60
2:Oj:54:MET:HE3	2:PF:20:LEU:HA	1.83	0.60
2:RK:63:ASP:OD2	2:Rq:147:ASN:ND2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K4:378:CYS:HB2	1:K4:410:PRO:HA	1.82	0.60
1:K6:271:TYR:OH	1:Nf:549:ASP:OD2	2.10	0.60
1:K8:134:VAL:HG12	1:K8:140:ILE:HG22	1.82	0.60
1:K8:244:TYR:CZ	1:K8:266:LYS:HG2	2.37	0.60
1:L8:478:CYS:O	1:L8:555:ARG:NH1	2.34	0.60
1:LS:193:ILE:HD11	1:LS:195:LEU:HD23	1.83	0.60
1:Lw:246:LYS:HB2	1:Lw:250:ALA:HB2	1.83	0.60
1:M0:400:ARG:NH1	1:M0:402:ASP:OD1	2.35	0.60
1:M9:378:CYS:HG	1:M9:454:TYR:HH	1.49	0.60
1:MQ:239:VAL:HG23	1:MQ:280:ALA:HB3	1.83	0.60
1:MV:406:LEU:HD13	1:MV:475:ALA:HB2	1.83	0.60
1:MW:560:LEU:HD21	1:MW:601:ILE:HD11	1.82	0.60
1:MX:451:ASP:OD1	1:MX:452:GLY:N	2.33	0.60
1:Mz:495:ASN:OD1	1:Mz:495:ASN:N	2.33	0.60
1:NV:253:PRO:HG2	1:NV:255:TYR:HE1	1.66	0.60
1:Nb:368:VAL:O	1:Nb:400:ARG:NH2	2.34	0.60
2:OJ:55:ASN:HA	2:Op:19:ASN:HD22	1.66	0.60
2:Oj:58:ILE:HD12	2:Ok:6:VAL:HG21	1.82	0.60
2:Pt:23:VAL:HG11	2:Pt:39:THR:HG21	1.83	0.60
2:RE:113:VAL:HG13	2:RE:127:ILE:HG12	1.83	0.60
2:RI:46:VAL:HG22	2:RI:64:ARG:HB3	1.83	0.60
2:RJ:64:ARG:NH1	2:Ro:95:GLN:HG3	2.16	0.60
2:Rl:56:ARG:HB3	2:Rl:56:ARG:HH11	1.65	0.60
1:L1:456:TYR:HB3	1:L1:503:ILE:HG23	1.82	0.60
1:L5:485:SER:OG	1:L5:486:GLN:N	2.31	0.60
1:L6:108:SER:OG	1:L6:109:ASN:OD1	2.19	0.60
1:L7:641:ASN:HB2	1:L8:626:THR:HG23	1.82	0.60
1:LS:90:LYS:HB2	1:LS:344:LEU:HB2	1.84	0.60
1:LU:120:TYR:HE1	1:LU:166:ASN:HD22	1.49	0.60
1:LY:455:LYS:HB3	1:LY:470:LEU:HD13	1.84	0.60
1:Ld:538:ASP:N	1:Ld:538:ASP:OD1	2.32	0.60
1:M0:235:GLU:OE2	1:M0:261:ARG:NH2	2.27	0.60
1:M1:82:ARG:NH2	1:M1:227:PRO:O	2.34	0.60
1:M9:438:ASP:N	1:M9:438:ASP:OD1	2.34	0.60
1:MQ:444:SER:OG	1:MQ:543:SER:OG	2.15	0.60
1:MQ:486:GLN:NE2	2:Oh:11:GLU:OE1	2.34	0.60
1:MZ:514:ARG:NH1	1:Ma:366:GLU:OE2	2.34	0.60
1:Mb:135:ASP:OD1	1:Mb:136:ALA:N	2.35	0.60
1:Mx:44:VAL:HG11	1:Mx:50:LEU:HB2	1.83	0.60
1:Ne:57:PRO:HB3	1:Ne:62:ALA:HA	1.83	0.60
1:Ne:398:ASP:OD2	1:Ne:445:SER:OG	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nh:351:THR:HG23	1:Nh:354:ASP:H	1.66	0.60
1:Ni:432:ALA:HB2	1:Ni:440:ASN:HD22	1.67	0.60
2:OC:23:VAL:HG11	2:OC:39:THR:HG21	1.83	0.60
2:OJ:1:MET:HG3	2:Oo:120:ALA:HB1	1.83	0.60
2:PG:23:VAL:HG13	2:PG:36:CYS:SG	2.41	0.60
2:Pp:82:ARG:NH1	2:Pp:138:GLY:HA2	2.14	0.60
2:Pr:23:VAL:HG11	2:Pr:39:THR:HG21	1.82	0.60
2:Ps:46:VAL:HG22	2:Ps:64:ARG:HB2	1.83	0.60
2:Rp:41:LEU:HD11	2:Rp:113:VAL:HG21	1.82	0.60
1:K0:596:LYS:NZ	1:K0:602:TYR:O	2.30	0.60
1:K2:202:GLU:OE1	1:K2:203:ALA:N	2.35	0.60
1:K5:90:LYS:NZ	1:K5:190:ASP:OD1	2.35	0.60
1:K5:406:LEU:HD13	1:K5:475:ALA:HB2	1.83	0.60
1:K9:91:ASN:N	1:K9:91:ASN:OD1	2.34	0.60
1:L0:240:SER:OG	1:L0:243:ASP:OD1	2.19	0.60
1:L1:271:TYR:OH	1:LV:549:ASP:OD2	2.12	0.60
1:L2:239:VAL:HG22	1:L2:280:ALA:HB3	1.84	0.60
1:L6:494:TYR:O	1:L6:498:GLN:NE2	2.30	0.60
1:L7:247:GLY:HA2	1:L7:266:LYS:HG3	1.83	0.60
1:L7:559:MET:O	1:L7:563:ASN:ND2	2.26	0.60
1:LQ:135:ASP:HB3	1:LQ:139:LYS:HB2	1.82	0.60
1:LW:241:LYS:NZ	1:LW:274:GLN:O	2.33	0.60
1:Lv:521:ALA:HA	1:Lv:539:LYS:HE3	1.84	0.60
1:Lw:70:ASN:ND2	1:Lw:457:GLN:OE1	2.33	0.60
1:M4:391:LYS:NZ	1:M4:440:ASN:O	2.35	0.60
1:MS:438:ASP:OD1	1:MS:438:ASP:N	2.32	0.60
1:MX:41:ILE:HD11	1:MX:361:PHE:HB3	1.84	0.60
1:MY:57:PRO:HA	1:MY:61:THR:HB	1.83	0.60
1:Mb:400:ARG:NH1	1:Mb:403:CYS:SG	2.75	0.60
1:Mv:206:THR:HA	1:Mv:211:GLN:HE21	1.66	0.60
1:Mw:456:TYR:HB2	1:Mw:504:LYS:HG2	1.84	0.60
1:Mz:46:ASN:OD1	1:Mz:47:GLU:N	2.35	0.60
1:NX:90:LYS:HB2	1:NX:344:LEU:HB2	1.82	0.60
1:NZ:486:GLN:NE2	2:Pk:11:GLU:OE1	2.34	0.60
1:Ng:488:TRP:HB3	1:Ng:556:LEU:HD13	1.83	0.60
2:OF:91:ILE:HG22	2:OF:107:TYR:HB3	1.84	0.60
2:ON:114:ARG:HG2	2:ON:126:GLU:HG3	1.82	0.60
2:Oh:125:LYS:NZ	2:PC:83:GLN:OE1	2.28	0.60
2:Po:17:ARG:HG3	2:Po:20:LEU:HD12	1.83	0.60
2:RC:114:ARG:HG2	2:RC:126:GLU:HG3	1.82	0.60
2:RG:4:ASP:O	2:RG:7:THR:OG1	2.20	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ro:24:GLU:HB2	2:Ro:114:ARG:HH12	1.66	0.60
2:Rt:114:ARG:HG2	2:Rt:126:GLU:HG3	1.83	0.60
1:L0:205:MET:O	1:L0:211:GLN:NE2	2.34	0.60
1:L1:391:LYS:NZ	1:L1:440:ASN:O	2.35	0.60
1:L2:237:GLU:OE1	1:L2:284:ARG:NH1	2.31	0.60
1:L5:641:ASN:HB2	1:L6:626:THR:HB	1.84	0.60
1:LW:432:ALA:HB2	1:LW:440:ASN:HD22	1.65	0.60
1:LZ:467:TRP:HZ3	1:La:199:GLU:HB2	1.66	0.60
1:Ld:406:LEU:HD13	1:Ld:475:ALA:HB2	1.84	0.60
1:MR:159:GLU:O	1:MR:162:THR:N	2.34	0.60
1:MW:26:THR:HA	1:MW:77:ASP:O	2.01	0.60
1:Mv:102:THR:HB	1:Mv:183:THR:HB	1.82	0.60
1:Mz:549:ASP:OD2	1:NZ:271:TYR:OH	2.13	0.60
1:Nd:29:LEU:O	1:Nd:80:VAL:HA	2.01	0.60
1:Nh:205:MET:O	1:Nh:211:GLN:NE2	2.35	0.60
2:PJ:14:ASP:OD1	2:PJ:17:ARG:NH2	2.35	0.60
2:PL:113:VAL:HG13	2:PL:127:ILE:HG12	1.84	0.60
2:Pq:17:ARG:HG3	2:Pq:20:LEU:HD12	1.83	0.60
2:RD:147:ASN:N	2:RD:147:ASN:OD1	2.33	0.60
2:RT:143:ASP:OD1	2:RT:144:TRP:N	2.35	0.60
2:Rp:58:ILE:HD12	2:Rq:6:VAL:HG21	1.84	0.60
1:K1:235:GLU:OE2	1:K1:261:ARG:NH2	2.28	0.60
1:K9:10:LEU:HD13	1:Nj:561:LYS:HD2	1.84	0.60
1:L3:601:ILE:HD12	1:L3:604:TYR:HB3	1.84	0.60
1:LS:392:HIS:O	1:LS:395:SER:OG	2.15	0.60
1:LU:209:ASP:N	1:LU:209:ASP:OD1	2.35	0.60
1:LU:332:GLU:OE1	1:LU:332:GLU:N	2.29	0.60
1:La:107:GLY:HA3	1:La:110:TYR:HE2	1.66	0.60
1:La:485:SER:OG	1:La:486:GLN:N	2.35	0.60
1:Lc:264:THR:O	1:Lc:266:LYS:N	2.34	0.60
1:M1:400:ARG:NH1	1:M1:403:CYS:SG	2.75	0.60
1:M6:29:LEU:O	1:M6:80:VAL:HA	2.01	0.60
1:M6:379:ALA:HA	1:M6:411:ARG:HB2	1.83	0.60
1:MR:391:LYS:HG2	1:MR:443:ILE:HD13	1.84	0.60
1:Mc:490:SER:O	1:Mc:496:ARG:NH1	2.35	0.60
1:Md:647:THR:O	1:Me:630:GLN:NE2	2.34	0.60
1:Mw:202:GLU:OE1	1:Mw:203:ALA:N	2.31	0.60
1:NZ:66:MET:HG2	1:NZ:468:VAL:HG21	1.83	0.60
1:Nc:571:ARG:NH2	1:Nc:587:GLU:OE1	2.28	0.60
1:Nd:228:GLY:HA2	1:Nd:345:SER:HB3	1.83	0.60
1:Nd:482:ASP:OD1	1:Nd:483:ASN:ND2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nh:417:ILE:H	1:Nh:417:ILE:HD13	1.66	0.60
1:Nw:432:ALA:HB2	1:Nw:440:ASN:HD22	1.65	0.60
2:Om:114:ARG:HG2	2:Om:126:GLU:HG3	1.84	0.60
2:PH:67:ASP:OD1	2:PH:67:ASP:N	2.32	0.60
2:PJ:4:ASP:O	2:PJ:7:THR:OG1	2.16	0.60
2:RF:63:ASP:OD2	2:Rl:147:ASN:ND2	2.35	0.60
1:L0:107:GLY:HA3	1:L0:110:TYR:HE2	1.66	0.60
1:LX:455:LYS:HG3	1:LX:502:VAL:HG13	1.83	0.60
1:LY:571:ARG:NH2	1:LY:587:GLU:OE1	2.35	0.60
1:Lv:101:TYR:OH	1:Lv:216:LYS:O	2.20	0.60
1:M9:563:ASN:HD22	1:M9:566:ARG:HH12	1.49	0.60
1:MV:70:ASN:OD1	1:MV:457:GLN:NE2	2.31	0.60
1:MV:256:PRO:HG2	1:MV:339:THR:H	1.66	0.60
1:Na:400:ARG:NH1	1:Na:403:CYS:SG	2.75	0.60
1:Nf:198:ILE:HD11	1:Nf:225:LEU:HD11	1.82	0.60
1:Nh:328:GLN:HG2	1:Nh:329:ASN:HD22	1.67	0.60
1:Nh:394:VAL:HG11	1:Nh:443:ILE:HD12	1.82	0.60
1:Nj:488:TRP:HB3	1:Nj:556:LEU:HD13	1.81	0.60
2:OJ:96:GLY:O	2:RJ:56:ARG:NH2	2.35	0.60
2:On:82:ARG:HH12	2:On:138:GLY:HA2	1.66	0.60
1:K2:166:ASN:OD1	1:K2:166:ASN:N	2.31	0.60
1:K6:166:ASN:N	1:K6:166:ASN:OD1	2.32	0.60
1:K8:284:ARG:HG2	1:K8:289:ILE:HD13	1.83	0.60
1:L9:549:ASP:O	1:L9:550:ARG:NE	2.31	0.60
1:LU:104:SER:OG	1:LU:183:THR:OG1	2.19	0.60
1:LU:427:VAL:O	1:LU:431:THR:OG1	2.18	0.60
1:LZ:379:ALA:HA	1:LZ:411:ARG:HB2	1.84	0.60
1:Lb:131:ILE:HD11	1:Lb:171:ILE:HD13	1.83	0.60
1:Le:605:ARG:HB3	1:Le:605:ARG:HH11	1.67	0.60
1:Lz:29:LEU:O	1:Lz:80:VAL:HA	2.01	0.60
1:MZ:107:GLY:HA3	1:MZ:110:TYR:HE2	1.66	0.60
1:Me:241:LYS:NZ	1:Me:274:GLN:O	2.30	0.60
1:NZ:455:LYS:HB2	1:NZ:470:LEU:HD13	1.82	0.60
1:Nh:2:THR:OG1	1:Nh:3:LEU:N	2.35	0.60
1:Nz:505:LEU:HD22	1:Nz:533:TYR:HD2	1.66	0.60
2:Oi:24:GLU:OE1	2:Oi:114:ARG:NH2	2.26	0.60
2:Om:54:MET:HE3	2:PI:20:LEU:HA	1.84	0.60
2:RF:17:ARG:HG3	2:RF:20:LEU:HD12	1.84	0.60
2:RK:136:ASN:O	2:RK:136:ASN:ND2	2.35	0.60
2:RN:136:ASN:HB3	2:RN:156:THR:HG23	1.82	0.60
2:RT:128:GLU:OE1	2:RT:130:LYS:NZ	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Rn:25:ILE:HD12	2:Rn:28:LEU:HD12	1.84	0.60
1:K3:332:GLU:OE1	1:K3:332:GLU:N	2.27	0.60
1:LV:459:ASP:OD2	1:LV:462:ASN:ND2	2.32	0.60
1:Lb:453:ASN:HB2	1:Lb:506:ALA:HB3	1.81	0.60
1:Lc:166:ASN:OD1	1:Lc:166:ASN:N	2.33	0.60
1:Lv:11:LYS:HG2	1:Lv:13:THR:HG23	1.84	0.60
1:Lz:486:GLN:NE2	2:OF:11:GLU:OE1	2.33	0.60
1:M2:406:LEU:HD13	1:M2:475:ALA:HB2	1.84	0.60
1:M5:272:GLY:O	1:M5:274:GLN:NE2	2.34	0.60
1:MQ:159:GLU:HB3	1:MQ:163:LEU:HA	1.84	0.60
1:MS:561:LYS:NZ	1:Mw:12:GLU:OE2	2.28	0.60
1:MV:645:THR:OG1	1:MW:629:ILE:O	2.19	0.60
1:Mx:32:LYS:NZ	1:Mx:60:GLU:OE2	2.25	0.60
1:NX:642:PHE:CE2	1:NZ:564:ILE:HD11	2.37	0.60
1:Na:394:VAL:HG11	1:Na:443:ILE:HD12	1.84	0.60
1:Nf:39:PHE:HE1	1:Nf:86:ARG:HD2	1.67	0.60
1:Nf:110:TYR:CE1	1:Nf:171:ILE:HD12	2.37	0.60
1:Nf:526:THR:OG1	1:Ng:366:GLU:OE1	2.18	0.60
1:Nv:137:ASP:OD1	1:Nv:137:ASP:N	2.33	0.60
2:OE:136:ASN:ND2	2:OE:136:ASN:O	2.34	0.60
2:OM:23:VAL:HG13	2:OM:36:CYS:SG	2.42	0.60
1:K7:438:ASP:OD1	1:K7:438:ASP:N	2.35	0.59
1:L0:118:VAL:H	1:L0:126:GLU:HB3	1.66	0.59
1:L2:108:SER:OG	1:L2:137:ASP:OD2	2.19	0.59
1:L5:438:ASP:OD1	1:L5:438:ASP:N	2.35	0.59
1:L5:490:SER:O	1:L5:496:ARG:NH1	2.35	0.59
1:LR:199:GLU:OE2	1:LR:200:ASN:ND2	2.31	0.59
1:LS:417:ILE:HD13	1:LS:417:ILE:H	1.67	0.59
1:LS:467:TRP:HZ3	1:LU:199:GLU:HB2	1.66	0.59
1:LU:82:ARG:NH2	1:LU:227:PRO:O	2.34	0.59
1:LU:221:GLY:O	1:LU:325:ALA:HA	2.02	0.59
1:LU:467:TRP:CZ3	1:LV:199:GLU:HB2	2.37	0.59
1:LW:368:VAL:O	1:LW:400:ARG:NH2	2.35	0.59
1:LZ:96:ALA:HA	1:LZ:188:ILE:HG22	1.83	0.59
1:Le:119:LYS:NZ	1:Le:124:ASP:OD1	2.29	0.59
1:Le:563:ASN:OD1	1:Le:591:TYR:OH	2.09	0.59
1:Lv:102:THR:HB	1:Lv:183:THR:HB	1.82	0.59
1:Lw:563:ASN:OD1	1:Lw:591:TYR:OH	2.11	0.59
1:M6:246:LYS:HB2	1:M6:250:ALA:HB2	1.83	0.59
1:M9:432:ALA:HB2	1:M9:440:ASN:HD22	1.67	0.59
1:MR:126:GLU:OE2	1:MR:129:GLY:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MS:561:LYS:HD2	1:Mw:10:LEU:HD13	1.84	0.59
1:MY:366:GLU:OE1	1:MY:367:SER:N	2.35	0.59
1:Mc:57:PRO:HB3	1:Mc:65:PHE:HB3	1.84	0.59
1:Md:239:VAL:HG22	1:Md:280:ALA:HB3	1.84	0.59
1:Mx:91:ASN:OD1	1:Mx:91:ASN:N	2.34	0.59
1:Mz:110:TYR:H	1:Mz:138:GLY:HA3	1.66	0.59
1:NV:505:LEU:HD21	1:NV:525:VAL:HG12	1.84	0.59
1:NX:206:THR:HA	1:NX:211:GLN:HE21	1.67	0.59
2:OD:23:VAL:HG11	2:OD:39:THR:HG21	1.84	0.59
2:OH:14:ASP:OD1	2:OH:17:ARG:NH2	2.35	0.59
2:OJ:22:GLN:HB2	2:OJ:116:TYR:HE2	1.66	0.59
2:Op:83:GLN:HA	2:Op:86:VAL:HG22	1.81	0.59
2:Pj:23:VAL:HG13	2:Pj:36:CYS:SG	2.42	0.59
2:Rn:114:ARG:HG2	2:Rn:126:GLU:HG3	1.83	0.59
1:K1:400:ARG:HD3	1:K1:403:CYS:SG	2.41	0.59
1:K7:271:TYR:OH	1:Ng:549:ASP:OD2	2.17	0.59
1:LW:269:PHE:CE2	1:LW:280:ALA:HB1	2.37	0.59
1:LX:159:GLU:OE1	1:LX:164:GLY:N	2.35	0.59
1:Lw:151:ILE:HG22	1:Lw:187:ILE:HG13	1.84	0.59
1:M0:256:PRO:HG2	1:M0:339:THR:H	1.66	0.59
1:M1:32:LYS:NZ	1:M1:60:GLU:OE2	2.35	0.59
1:M1:34:GLN:OE1	1:M1:58:THR:OG1	2.20	0.59
1:M5:264:THR:O	1:M5:266:LYS:N	2.35	0.59
1:MS:54:PHE:HE2	1:MS:82:ARG:HB2	1.67	0.59
1:MV:166:ASN:N	1:MV:166:ASN:OD1	2.33	0.59
1:MV:494:TYR:OH	1:MW:569:LYS:NZ	2.31	0.59
1:MW:456:TYR:HB3	1:MW:503:ILE:HG23	1.82	0.59
1:MX:607:VAL:O	1:MX:612:ASN:ND2	2.35	0.59
1:MY:654:LEU:HD13	1:MZ:605:ARG:HD3	1.84	0.59
1:MZ:455:LYS:HG2	1:MZ:468:VAL:HG22	1.84	0.59
1:Mb:20:VAL:HG21	1:Mb:46:ASN:HD21	1.68	0.59
1:Mc:549:ASP:O	1:Mc:550:ARG:NE	2.35	0.59
1:Me:455:LYS:HB2	1:Me:470:LEU:HD13	1.84	0.59
1:Mw:488:TRP:HB3	1:Mw:556:LEU:HD13	1.83	0.59
1:Nv:120:TYR:HE1	1:Nv:166:ASN:HD22	1.50	0.59
1:Nv:596:LYS:NZ	1:Nv:602:TYR:O	2.35	0.59
2:Oi:64:ARG:NH1	2:PD:95:GLN:HG3	2.17	0.59
2:RI:113:VAL:HG13	2:RI:127:ILE:HG12	1.83	0.59
2:Rk:23:VAL:HG11	2:Rk:39:THR:HG21	1.84	0.59
1:LV:645:THR:OG1	1:LW:629:ILE:O	2.21	0.59
1:La:514:ARG:NH1	1:Lb:366:GLU:OE2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lb:107:GLY:HA3	1:Lb:110:TYR:HE2	1.68	0.59
1:M3:241:LYS:HB2	1:M3:273:PRO:HB2	1.82	0.59
1:MZ:467:TRP:CZ3	1:Ma:199:GLU:HB2	2.36	0.59
1:Mc:116:ILE:HD11	1:Mc:131:ILE:HG13	1.84	0.59
1:Mw:106:PRO:HB2	1:Mw:139:LYS:HD2	1.83	0.59
1:Mx:427:VAL:O	1:Mx:431:THR:OG1	2.18	0.59
1:NX:549:ASP:OD2	1:Nx:271:TYR:OH	2.18	0.59
1:NX:642:PHE:HE2	1:NZ:564:ILE:HD11	1.67	0.59
1:Nc:617:VAL:HG22	1:Nc:622:GLU:HB2	1.84	0.59
1:Nf:273:PRO:HB3	1:Nf:278:GLN:HB2	1.83	0.59
1:Ng:394:VAL:HG11	1:Ng:443:ILE:HD12	1.83	0.59
1:Ni:57:PRO:HB3	1:Ni:62:ALA:HA	1.85	0.59
2:OJ:38:ALA:HB3	2:OJ:72:THR:HG23	1.82	0.59
2:Oq:136:ASN:ND2	2:Oq:136:ASN:O	2.34	0.59
2:PI:113:VAL:HG13	2:PI:127:ILE:HG12	1.84	0.59
2:RF:143:ASP:OD1	2:RF:144:TRP:N	2.34	0.59
2:RL:1:MET:SD	2:Rq:22:GLN:NE2	2.76	0.59
1:L1:2:THR:OG1	1:L1:3:LEU:N	2.35	0.59
1:L5:47:GLU:OE1	1:L5:461:TYR:OH	2.20	0.59
1:LZ:44:VAL:HG11	1:LZ:50:LEU:HB2	1.83	0.59
1:Le:432:ALA:HB2	1:Le:442:ASN:HB2	1.84	0.59
1:Lx:454:TYR:HB3	1:Lx:467:TRP:CD1	2.37	0.59
1:Lx:467:TRP:CZ3	1:Lz:199:GLU:HB2	2.38	0.59
1:M1:375:ALA:HB1	1:M1:390:GLN:HG2	1.84	0.59
1:M2:119:LYS:NZ	1:M2:124:ASP:OD1	2.28	0.59
1:M6:66:MET:HG2	1:M6:468:VAL:HG21	1.83	0.59
1:M8:26:THR:HA	1:M8:77:ASP:O	2.02	0.59
1:MS:198:ILE:HG23	1:MS:324:PHE:HE2	1.65	0.59
1:MY:379:ALA:HA	1:MY:411:ARG:HB2	1.84	0.59
1:MZ:432:ALA:HB2	1:MZ:440:ASN:HD22	1.68	0.59
1:Md:487:THR:HG21	1:Md:559:MET:HE3	1.83	0.59
1:Na:406:LEU:HD13	1:Na:475:ALA:HB2	1.84	0.59
1:Na:438:ASP:OD1	1:Na:438:ASP:N	2.36	0.59
1:Nf:400:ARG:HH11	1:Nf:403:CYS:HG	1.50	0.59
1:Ng:33:PHE:HA	1:Ng:61:THR:HG23	1.85	0.59
2:OJ:23:VAL:HG11	2:OJ:39:THR:HG21	1.84	0.59
2:OL:56:ARG:HB3	2:OL:56:ARG:HH11	1.67	0.59
2:OM:91:ILE:HG22	2:OM:107:TYR:HB3	1.84	0.59
2:Ps:82:ARG:NH1	2:Ps:138:GLY:HA2	2.17	0.59
1:K0:406:LEU:HD13	1:K0:475:ALA:HB2	1.85	0.59
1:K3:256:PRO:HG2	1:K3:339:THR:H	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K5:451:ASP:OD1	1:K5:452:GLY:N	2.31	0.59
1:K8:108:SER:OG	1:K8:137:ASP:OD2	2.20	0.59
1:L1:400:ARG:HD3	1:L1:403:CYS:SG	2.41	0.59
1:L4:135:ASP:N	1:L4:139:LYS:O	2.29	0.59
1:L7:110:TYR:H	1:L7:138:GLY:HA3	1.67	0.59
1:L8:2:THR:OG1	1:L8:3:LEU:N	2.31	0.59
1:LQ:619:ASP:OD1	1:LQ:619:ASP:N	2.26	0.59
1:LY:406:LEU:HD13	1:LY:475:ALA:HB2	1.83	0.59
1:Lc:440:ASN:OD1	1:Lc:440:ASN:N	2.35	0.59
1:Ld:110:TYR:CE1	1:Ld:171:ILE:HD12	2.37	0.59
1:M2:256:PRO:HG2	1:M2:339:THR:H	1.67	0.59
1:M4:90:LYS:NZ	1:M4:190:ASP:OD1	2.36	0.59
1:M6:278:GLN:HG2	1:M6:296:SER:HB2	1.84	0.59
1:MR:107:GLY:HA3	1:MR:110:TYR:HE2	1.68	0.59
1:MU:104:SER:OG	1:MU:183:THR:OG1	2.15	0.59
1:Mz:239:VAL:HG23	1:Mz:280:ALA:HB3	1.84	0.59
1:NW:495:ASN:OD1	1:NW:495:ASN:N	2.32	0.59
1:Nb:609:ASP:OD1	1:Nb:611:THR:OG1	2.12	0.59
1:Nd:239:VAL:HG23	1:Nd:280:ALA:HB3	1.84	0.59
1:Ng:57:PRO:O	1:Ng:462:ASN:ND2	2.31	0.59
2:OG:115:GLN:OE1	2:Ol:151:GLN:NE2	2.30	0.59
2:OL:113:VAL:HG13	2:OL:127:ILE:HG12	1.85	0.59
2:Pi:76:ASP:OD1	2:Pi:80:ASP:N	2.36	0.59
1:L6:427:VAL:HG13	1:L6:520:GLU:HG3	1.83	0.59
1:LX:455:LYS:HB2	1:LX:470:LEU:HD13	1.84	0.59
1:LY:510:ARG:HG2	1:LY:511:GLN:H	1.68	0.59
1:Lv:247:GLY:HA2	1:Lv:266:LYS:HG3	1.85	0.59
1:Lz:166:ASN:OD1	1:Lz:166:ASN:N	2.36	0.59
1:M8:394:VAL:HG11	1:M8:443:ILE:HD12	1.83	0.59
1:MW:2:THR:OG1	1:MW:3:LEU:N	2.36	0.59
1:Ma:494:TYR:HE2	1:Ma:528:THR:HG21	1.66	0.59
1:Mw:66:MET:HG2	1:Mw:468:VAL:HG21	1.83	0.59
1:Mz:209:ASP:OD1	1:Mz:209:ASP:N	2.35	0.59
1:Nf:107:GLY:HA3	1:Nf:110:TYR:HE2	1.67	0.59
1:Nh:206:THR:HA	1:Nh:211:GLN:HE21	1.67	0.59
1:Nw:456:TYR:HB3	1:Nw:503:ILE:HG23	1.84	0.59
1:Nx:211:GLN:OE1	1:Nx:329:ASN:ND2	2.36	0.59
2:OH:89:GLN:NE2	2:OH:135:THR:O	2.36	0.59
2:OK:136:ASN:O	2:OK:136:ASN:ND2	2.36	0.59
1:K0:205:MET:O	1:K0:211:GLN:NE2	2.36	0.59
1:K2:332:GLU:OE1	1:K2:332:GLU:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K4:400:ARG:HH11	1:K4:400:ARG:HB3	1.68	0.59
1:L0:74:TYR:HD2	1:L0:476:GLY:HA3	1.68	0.59
1:L1:202:GLU:OE1	1:L1:203:ALA:N	2.36	0.59
1:LU:455:LYS:HG3	1:LU:502:VAL:HG13	1.82	0.59
1:LX:29:LEU:O	1:LX:80:VAL:HA	2.02	0.59
1:LY:450:ILE:HG22	1:LY:541:ALA:HB2	1.85	0.59
1:Lb:118:VAL:HB	1:Lb:126:GLU:HB3	1.85	0.59
1:Le:36:GLY:O	1:Le:82:ARG:NH1	2.34	0.59
1:Lx:400:ARG:NH1	1:Lx:403:CYS:SG	2.74	0.59
1:Lz:480:ARG:C	1:Lz:482:ASP:H	2.10	0.59
1:Mx:371:GLN:OE1	1:Mx:562:THR:OG1	2.16	0.59
1:Mx:438:ASP:OD1	1:Mx:438:ASP:N	2.34	0.59
1:Nb:432:ALA:HB2	1:Nb:440:ASN:HD22	1.67	0.59
1:Nj:419:VAL:HG13	1:Nj:507:ILE:HB	1.85	0.59
2:OE:49:ILE:HD11	2:Ok:150:ILE:HG22	1.85	0.59
2:OG:54:MET:HE2	2:OH:1:MET:HE1	1.83	0.59
2:Or:14:ASP:OD1	2:Or:17:ARG:NH2	2.31	0.59
2:Os:75:ASN:ND2	2:Os:151:GLN:OE1	2.34	0.59
2:Pj:54:MET:HE3	2:RF:20:LEU:HA	1.83	0.59
2:Pp:83:GLN:HA	2:Pp:86:VAL:HG22	1.84	0.59
2:RG:54:MET:HE3	2:Rm:20:LEU:HA	1.85	0.59
2:Ro:98:GLU:OE1	2:Ro:98:GLU:N	2.29	0.59
1:K0:453:ASN:HB2	1:K0:506:ALA:HB3	1.83	0.59
1:K7:463:ASP:OD1	1:K8:317:LYS:NZ	2.34	0.59
1:L0:163:LEU:HD12	1:L0:186:LYS:HA	1.85	0.59
1:L4:645:THR:OG1	1:L5:629:ILE:O	2.21	0.59
1:Lw:427:VAL:HG13	1:Lw:520:GLU:HG3	1.85	0.59
1:Lw:616:SER:OG	1:Lw:620:ARG:NH2	2.27	0.59
1:Lz:561:LYS:HB3	1:MS:10:LEU:HD13	1.84	0.59
1:M0:331:PRO:HB2	1:M0:334:PHE:HB2	1.84	0.59
1:M3:278:GLN:HG2	1:M3:296:SER:HB2	1.84	0.59
1:M4:94:PRO:HB2	1:M4:219:ILE:HD12	1.85	0.59
1:M4:375:ALA:HB3	1:M4:407:CYS:HA	1.85	0.59
1:M9:154:ALA:HA	1:M9:157:VAL:HG22	1.84	0.59
1:MV:406:LEU:HD22	1:MV:474:ILE:HG13	1.84	0.59
1:MZ:391:LYS:NZ	1:MZ:440:ASN:O	2.35	0.59
1:Mz:118:VAL:HB	1:Mz:126:GLU:HB3	1.85	0.59
1:Ni:478:CYS:O	1:Ni:555:ARG:NH1	2.35	0.59
1:Nw:143:ILE:HD12	1:Nw:145:ILE:HD11	1.84	0.59
1:Nx:400:ARG:NH1	1:Nx:403:CYS:SG	2.74	0.59
2:OE:96:GLY:O	2:RE:56:ARG:NH2	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:140:LEU:HD13	2:OI:153:PHE:HB3	1.84	0.59
2:PL:136:ASN:HB3	2:PL:156:THR:HG23	1.84	0.59
2:Po:56:ARG:NH2	2:Ro:96:GLY:O	2.31	0.59
2:Pp:54:MET:HE3	2:RL:20:LEU:HA	1.85	0.59
2:RF:115:GLN:OE1	2:Rk:151:GLN:NE2	2.35	0.59
2:Rk:24:GLU:HB3	2:Rk:112:ILE:HG23	1.85	0.59
1:K2:375:ALA:HB1	1:K2:390:GLN:HG2	1.85	0.59
1:K2:605:ARG:HH11	1:K2:605:ARG:HB3	1.68	0.59
1:K5:549:ASP:O	1:K5:550:ARG:NE	2.36	0.59
1:L0:271:TYR:OH	1:Le:549:ASP:OD2	2.14	0.59
1:L1:12:GLU:OE2	1:LW:561:LYS:NZ	2.27	0.59
1:L8:571:ARG:NH2	1:L8:587:GLU:OE1	2.36	0.59
1:LV:450:ILE:HG22	1:LV:541:ALA:HB2	1.84	0.59
1:LW:406:LEU:HD22	1:LW:474:ILE:HG13	1.85	0.59
1:LZ:228:GLY:HA2	1:LZ:345:SER:HB3	1.85	0.59
1:Lb:119:LYS:HE3	1:Lb:122:SER:HA	1.85	0.59
1:Lv:459:ASP:OD2	1:Lv:466:ARG:NH1	2.36	0.59
1:Lw:47:GLU:OE1	1:Lw:461:TYR:OH	2.21	0.59
1:M2:140:ILE:O	1:M2:141:LYS:NZ	2.36	0.59
1:M4:368:VAL:O	1:M4:400:ARG:NH2	2.36	0.59
1:M4:486:GLN:NE2	2:PJ:11:GLU:OE1	2.35	0.59
1:M8:549:ASP:OD2	1:Nh:271:TYR:OH	2.10	0.59
1:MQ:237:GLU:OE1	1:MQ:261:ARG:NH2	2.36	0.59
1:MQ:639:THR:HB	1:MR:624:VAL:HG12	1.85	0.59
1:MQ:654:LEU:HD13	1:MR:605:ARG:HD3	1.84	0.59
1:MR:368:VAL:O	1:MR:400:ARG:NH2	2.36	0.59
1:MS:236:ILE:HD11	1:MS:323:ILE:HG21	1.85	0.59
1:Mc:427:VAL:O	1:Mc:431:THR:OG1	2.17	0.59
1:Mx:105:THR:HB	1:Mx:181:VAL:H	1.68	0.59
1:NX:444:SER:OG	1:NX:543:SER:OG	2.15	0.59
1:Nc:104:SER:OG	1:Nc:183:THR:OG1	2.21	0.59
1:Ng:20:VAL:HG21	1:Ng:46:ASN:HD21	1.66	0.59
1:Nj:373:PHE:HB2	1:Nj:405:VAL:HG22	1.83	0.59
1:Nv:298:LYS:NZ	1:Nv:299:ARG:O	2.32	0.59
2:OD:140:LEU:HD13	2:OD:153:PHE:HB3	1.83	0.59
2:OK:39:THR:HG22	2:OK:71:VAL:HG22	1.85	0.59
2:OK:63:ASP:OD2	2:Oq:147:ASN:ND2	2.32	0.59
2:Rm:140:LEU:HD13	2:Rm:153:PHE:HB3	1.83	0.59
1:K2:119:LYS:NZ	1:K2:124:ASP:OD1	2.33	0.59
1:K7:26:THR:HA	1:K7:77:ASP:O	2.03	0.59
1:K9:105:THR:HB	1:K9:181:VAL:H	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L6:30:ALA:HB2	1:L6:81:VAL:HG13	1.85	0.59
1:LQ:140:ILE:O	1:LQ:141:LYS:NZ	2.36	0.59
1:LQ:432:ALA:HB2	1:LQ:440:ASN:HD22	1.68	0.59
1:LU:256:PRO:HG2	1:LU:339:THR:H	1.67	0.59
1:LV:406:LEU:HD22	1:LV:474:ILE:HG13	1.85	0.59
1:LY:264:THR:O	1:LY:266:LYS:N	2.36	0.59
1:Lv:43:GLN:OE1	1:Lv:79:ARG:NH1	2.36	0.59
1:Lx:44:VAL:HG11	1:Lx:50:LEU:HB2	1.83	0.59
1:M0:406:LEU:HD13	1:M0:475:ALA:HB2	1.85	0.59
1:M7:639:THR:HB	1:M8:624:VAL:HG12	1.83	0.59
1:M8:228:GLY:HA2	1:M8:345:SER:HB3	1.85	0.59
1:MQ:549:ASP:O	1:MQ:550:ARG:NE	2.33	0.59
1:MU:455:LYS:NZ	1:MU:473:ASP:OD1	2.35	0.59
1:MW:269:PHE:CE2	1:MW:280:ALA:HB1	2.38	0.59
1:Mc:400:ARG:HD3	1:Mc:403:CYS:SG	2.42	0.59
1:Mx:157:VAL:HG23	1:Mx:159:GLU:H	1.67	0.59
1:Mz:205:MET:O	1:Mz:211:GLN:NE2	2.36	0.59
1:NW:57:PRO:HG3	1:NW:65:PHE:CD1	2.38	0.59
1:Nj:567:SER:O	1:Nj:571:ARG:NH1	2.35	0.59
1:Nv:131:ILE:HD13	1:Nv:140:ILE:HG21	1.85	0.59
2:OH:67:ASP:OD1	2:OH:67:ASP:N	2.34	0.59
2:Oj:23:VAL:HG11	2:Oj:39:THR:HG21	1.85	0.59
2:Pm:19:ASN:N	2:Pm:19:ASN:OD1	2.36	0.59
2:RG:39:THR:HG22	2:RG:71:VAL:HG13	1.85	0.59
1:K1:202:GLU:OE1	1:K1:203:ALA:N	2.35	0.58
1:K4:198:ILE:HD11	1:K4:225:LEU:HD11	1.85	0.58
1:K4:486:GLN:NE2	2:RJ:11:GLU:OE1	2.35	0.58
1:K5:43:GLN:HE21	1:K5:45:THR:HG22	1.67	0.58
1:L2:373:PHE:HB2	1:L2:405:VAL:HG22	1.84	0.58
1:L5:77:ASP:OD1	1:L5:78:LEU:N	2.35	0.58
1:LR:26:THR:HA	1:LR:77:ASP:O	2.03	0.58
1:LV:456:TYR:HB3	1:LV:503:ILE:HG23	1.85	0.58
1:LW:239:VAL:HG23	1:LW:280:ALA:HB3	1.84	0.58
1:LY:278:GLN:HG2	1:LY:296:SER:HB3	1.85	0.58
1:LY:487:THR:HG21	1:LY:559:MET:HE3	1.84	0.58
1:LZ:41:ILE:HD11	1:LZ:361:PHE:HB3	1.84	0.58
1:LZ:514:ARG:NH1	1:La:366:GLU:OE2	2.36	0.58
1:LZ:612:ASN:HB3	1:LZ:624:VAL:HG23	1.84	0.58
1:Ld:438:ASP:OD1	1:Ld:438:ASP:N	2.36	0.58
1:Lv:166:ASN:OD1	1:Lv:166:ASN:N	2.27	0.58
1:M2:26:THR:HA	1:M2:77:ASP:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M2:66:MET:HG2	1:M2:468:VAL:HG21	1.84	0.58
1:M8:108:SER:OG	1:M8:137:ASP:OD2	2.21	0.58
1:MX:642:PHE:HE1	1:MY:564:ILE:HD11	1.67	0.58
1:Mb:26:THR:HA	1:Mb:77:ASP:O	2.02	0.58
1:Mv:11:LYS:HG2	1:Mv:13:THR:HG23	1.84	0.58
1:Mv:166:ASN:OD1	1:Mv:166:ASN:N	2.32	0.58
1:NV:103:ILE:HD13	1:NV:182:ILE:HG22	1.85	0.58
2:Pi:22:GLN:HB2	2:Pi:116:TYR:HE2	1.68	0.58
2:RL:41:LEU:HG	2:RL:127:ILE:HD13	1.85	0.58
1:K1:105:THR:HB	1:K1:181:VAL:H	1.69	0.58
1:K8:66:MET:HG2	1:K8:468:VAL:HG21	1.85	0.58
1:L6:560:LEU:O	1:L6:564:ILE:HG12	2.03	0.58
1:L9:41:ILE:HD11	1:L9:361:PHE:HB3	1.84	0.58
1:LR:406:LEU:HD13	1:LR:475:ALA:HB2	1.85	0.58
1:LU:617:VAL:HG22	1:LU:622:GLU:HB2	1.84	0.58
1:LW:609:ASP:OD1	1:LW:611:THR:OG1	2.20	0.58
1:La:110:TYR:CE1	1:La:171:ILE:HD12	2.38	0.58
1:La:166:ASN:OD1	1:La:166:ASN:N	2.35	0.58
1:M0:596:LYS:NZ	1:M0:602:TYR:O	2.31	0.58
1:M3:612:ASN:HB3	1:M3:624:VAL:HG23	1.85	0.58
1:M5:82:ARG:NH2	1:M5:227:PRO:O	2.35	0.58
1:M7:195:LEU:HD12	1:M7:201:ALA:HB1	1.84	0.58
1:M7:235:GLU:OE2	1:M7:261:ARG:NH2	2.32	0.58
1:MW:379:ALA:HA	1:MW:411:ARG:HB2	1.85	0.58
1:Ma:110:TYR:CE1	1:Ma:171:ILE:HD12	2.38	0.58
1:Ma:131:ILE:HD13	1:Ma:140:ILE:HG21	1.85	0.58
1:Md:612:ASN:HB3	1:Md:624:VAL:HG23	1.84	0.58
1:NV:36:GLY:O	1:NV:82:ARG:NH1	2.36	0.58
1:NX:391:LYS:NZ	1:NX:440:ASN:O	2.36	0.58
1:Ng:379:ALA:HA	1:Ng:411:ARG:HB2	1.84	0.58
1:Nx:237:GLU:OE1	1:Nx:284:ARG:NH1	2.26	0.58
2:OJ:140:LEU:HD13	2:OJ:153:PHE:HB3	1.85	0.58
2:PH:98:GLU:OE1	2:PH:98:GLU:N	2.28	0.58
2:RH:19:ASN:OD1	2:RH:19:ASN:N	2.36	0.58
1:K0:110:TYR:H	1:K0:138:GLY:HA3	1.68	0.58
1:K4:311:ILE:HB	1:K4:327:ALA:HB2	1.83	0.58
1:K4:400:ARG:NH1	1:K4:402:ASP:OD1	2.36	0.58
1:K8:2:THR:OG1	1:K8:3:LEU:N	2.27	0.58
1:LR:193:ILE:HG21	1:LR:223:VAL:HG11	1.85	0.58
1:Lc:375:ALA:HB1	1:Lc:390:GLN:HG2	1.83	0.58
1:Ld:481:THR:HG23	1:Ld:496:ARG:HD3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lw:410:PRO:O	1:Lw:413:THR:HG22	2.04	0.58
1:MQ:28:ALA:HB2	1:MQ:370:VAL:HG21	1.85	0.58
1:MZ:134:VAL:HG12	1:MZ:140:ILE:HG22	1.86	0.58
1:Ma:406:LEU:HD13	1:Ma:475:ALA:HB2	1.85	0.58
1:Mb:195:LEU:HD23	1:Mb:195:LEU:H	1.69	0.58
1:Mc:380:GLY:H	1:Mc:411:ARG:HD2	1.68	0.58
1:Mv:22:ASN:HD22	1:Mv:22:ASN:N	2.00	0.58
1:Nd:450:ILE:HG22	1:Nd:541:ALA:HB2	1.85	0.58
1:Nd:477:LEU:HD23	1:Nd:535:LEU:HD12	1.85	0.58
1:Ne:639:THR:HB	1:Nf:624:VAL:HG12	1.85	0.58
1:Nz:423:VAL:HG21	1:Nz:513:GLN:HB3	1.86	0.58
2:OD:64:ARG:NH1	2:Oi:95:GLN:HG3	2.18	0.58
2:On:114:ARG:HG2	2:On:126:GLU:HG3	1.85	0.58
2:Pk:136:ASN:ND2	2:Pk:136:ASN:O	2.36	0.58
1:K0:609:ASP:OD1	1:K0:611:THR:OG1	2.17	0.58
1:K1:131:ILE:HD13	1:K1:140:ILE:HG21	1.85	0.58
1:L0:278:GLN:HG2	1:L0:296:SER:HB3	1.84	0.58
1:L7:29:LEU:O	1:L7:80:VAL:HA	2.04	0.58
1:LW:46:ASN:OD1	1:LW:47:GLU:N	2.33	0.58
1:LX:28:ALA:HB2	1:LX:370:VAL:HG21	1.85	0.58
1:LY:538:ASP:HB2	1:LY:551:ILE:HG13	1.86	0.58
1:La:470:LEU:HD23	1:La:525:VAL:HG21	1.85	0.58
1:M6:46:ASN:OD1	1:M6:47:GLU:N	2.36	0.58
1:MQ:41:ILE:HD13	1:MQ:81:VAL:HB	1.85	0.58
1:MU:131:ILE:HD13	1:MU:140:ILE:HG21	1.86	0.58
1:Ma:237:GLU:OE1	1:Ma:284:ARG:NH1	2.36	0.58
1:Md:233:LYS:NZ	1:Md:286:ASN:OD1	2.33	0.58
1:Mv:412:GLU:OE1	1:Mv:412:GLU:N	2.35	0.58
1:Mw:228:GLY:HA2	1:Mw:345:SER:HB3	1.85	0.58
1:Mw:406:LEU:HD13	1:Mw:475:ALA:HB2	1.85	0.58
1:Mz:459:ASP:OD2	1:Mz:466:ARG:NH1	2.27	0.58
1:NV:654:LEU:HD13	1:NW:605:ARG:HD3	1.85	0.58
1:Nh:159:GLU:OE1	1:Nh:164:GLY:N	2.36	0.58
1:Ni:560:LEU:HD21	1:Ni:601:ILE:HD11	1.86	0.58
1:Nz:432:ALA:HB2	1:Nz:440:ASN:HD22	1.68	0.58
2:OC:136:ASN:O	2:OC:136:ASN:ND2	2.32	0.58
2:Ol:19:ASN:OD1	2:Ol:19:ASN:N	2.27	0.58
2:Rk:103:LYS:N	2:Rk:106:GLU:OE2	2.29	0.58
2:Rr:54:MET:O	2:Rr:56:ARG:N	2.36	0.58
1:K2:100:GLU:OE2	1:K2:186:LYS:NZ	2.32	0.58
1:K5:455:LYS:HD2	1:K5:502:VAL:HG22	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K6:451:ASP:OD1	1:K6:452:GLY:N	2.32	0.58
1:L0:135:ASP:HB3	1:L0:139:LYS:HB2	1.84	0.58
1:L0:291:GLN:OE1	1:L0:320:SER:OG	2.13	0.58
1:L4:57:PRO:HG3	1:L4:65:PHE:CD1	2.38	0.58
1:LR:211:GLN:OE1	1:LR:329:ASN:ND2	2.36	0.58
1:LR:427:VAL:HG13	1:LR:520:GLU:HG3	1.85	0.58
1:LZ:264:THR:O	1:LZ:266:LYS:N	2.37	0.58
1:Ld:645:THR:OG1	1:Le:629:ILE:O	2.19	0.58
1:Lx:100:GLU:HB3	1:Lx:188:ILE:HD11	1.85	0.58
1:Lx:538:ASP:N	1:Lx:538:ASP:OD1	2.36	0.58
1:M1:135:ASP:OD1	1:M1:136:ALA:N	2.37	0.58
1:M8:642:PHE:CE2	1:M9:564:ILE:HD11	2.38	0.58
1:MQ:240:SER:OG	1:MQ:243:ASP:OD1	2.18	0.58
1:MR:373:PHE:HB2	1:MR:405:VAL:HG22	1.86	0.58
1:Mc:102:THR:HB	1:Mc:183:THR:HB	1.86	0.58
1:Md:211:GLN:OE1	1:Md:329:ASN:ND2	2.36	0.58
1:Mw:272:GLY:O	1:Mw:274:GLN:NE2	2.37	0.58
1:NX:143:ILE:HD12	1:NX:145:ILE:HD11	1.86	0.58
1:NX:432:ALA:HB2	1:NX:440:ASN:HD22	1.67	0.58
1:Nd:551:ILE:HG22	1:Nd:555:ARG:HG3	1.85	0.58
1:Ng:34:GLN:OE1	1:Ng:58:THR:OG1	2.22	0.58
1:Ng:281:ILE:HG13	1:Ng:295:LEU:HD12	1.83	0.58
1:Ni:494:TYR:O	1:Ni:498:GLN:NE2	2.36	0.58
1:Ni:639:THR:HB	1:Nj:624:VAL:HG12	1.85	0.58
1:Nw:116:ILE:HD11	1:Nw:131:ILE:HG13	1.85	0.58
1:Nw:151:ILE:HG22	1:Nw:187:ILE:HG13	1.85	0.58
1:Nw:509:THR:O	1:Nw:514:ARG:NH1	2.36	0.58
2:OD:82:ARG:NH1	2:OD:138:GLY:HA2	2.18	0.58
2:ON:56:ARG:NH2	2:PN:96:GLY:O	2.37	0.58
2:PG:67:ASP:OD1	2:PG:67:ASP:N	2.33	0.58
2:Pn:14:ASP:OD1	2:Pn:17:ARG:NH2	2.31	0.58
2:Pt:136:ASN:O	2:Pt:136:ASN:ND2	2.35	0.58
2:RC:54:MET:HE3	2:RS:20:LEU:HA	1.86	0.58
2:RH:49:ILE:HD11	2:Rn:150:ILE:HG22	1.86	0.58
1:K1:561:LYS:NZ	1:LU:12:GLU:OE2	2.27	0.58
1:K2:406:LEU:HD13	1:K2:475:ALA:HB2	1.84	0.58
1:K3:29:LEU:O	1:K3:80:VAL:HA	2.04	0.58
1:K4:135:ASP:N	1:K4:139:LYS:O	2.34	0.58
1:K8:246:LYS:HB2	1:K8:250:ALA:HB2	1.84	0.58
1:K9:601:ILE:HG12	1:K9:629:ILE:HD12	1.84	0.58
1:L0:487:THR:HG21	1:L0:559:MET:HE3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L9:414:VAL:HG23	1:L9:422:ALA:HB1	1.86	0.58
1:LV:70:ASN:OD1	1:LV:457:GLN:NE2	2.33	0.58
1:Lw:488:TRP:HB3	1:Lw:556:LEU:HD13	1.85	0.58
1:Lz:40:GLN:H	1:Lz:81:VAL:HG23	1.69	0.58
1:M1:29:LEU:O	1:M1:80:VAL:HA	2.02	0.58
1:M6:576:ASN:ND2	1:M6:622:GLU:O	2.36	0.58
1:MQ:494:TYR:CZ	1:MR:569:LYS:HD3	2.38	0.58
1:MS:57:PRO:HG3	1:MS:65:PHE:CD1	2.39	0.58
1:MX:400:ARG:NH1	1:MX:403:CYS:SG	2.76	0.58
1:MZ:135:ASP:OD1	1:MZ:136:ALA:N	2.36	0.58
1:Mb:2:THR:OG1	1:Mb:3:LEU:N	2.37	0.58
1:Mv:406:LEU:HB3	1:Mv:474:ILE:HD11	1.84	0.58
1:NW:566:ARG:HA	1:NW:569:LYS:HD2	1.85	0.58
1:NZ:108:SER:OG	1:NZ:137:ASP:OD2	2.21	0.58
1:Nx:380:GLY:H	1:Nx:411:ARG:HD2	1.68	0.58
2:OC:46:VAL:HG22	2:OC:64:ARG:HB2	1.85	0.58
2:OD:83:GLN:HA	2:OD:86:VAL:HG22	1.85	0.58
2:ON:136:ASN:HB3	2:ON:156:THR:HG23	1.86	0.58
2:Os:1:MET:SD	2:PN:22:GLN:NE2	2.76	0.58
2:Os:17:ARG:HG3	2:Os:20:LEU:HD12	1.85	0.58
2:PD:43:ALA:O	2:PD:162:TRP:NE1	2.37	0.58
2:PN:136:ASN:O	2:PN:136:ASN:ND2	2.36	0.58
2:Pp:154:GLU:OE1	2:Pp:154:GLU:N	2.37	0.58
2:RJ:140:LEU:HD13	2:RJ:153:PHE:HB3	1.86	0.58
2:RK:114:ARG:HG2	2:RK:126:GLU:HG3	1.84	0.58
2:RO:114:ARG:HG2	2:RO:126:GLU:HG3	1.86	0.58
1:K5:271:TYR:OH	1:Ne:549:ASP:OD2	2.11	0.58
1:K6:105:THR:HB	1:K6:181:VAL:H	1.69	0.58
1:LQ:57:PRO:HA	1:LQ:61:THR:HB	1.86	0.58
1:LQ:90:LYS:NZ	1:LQ:190:ASP:OD1	2.37	0.58
1:LS:134:VAL:HG12	1:LS:140:ILE:HG22	1.86	0.58
1:Lx:463:ASP:OD1	1:Lz:317:LYS:NZ	2.36	0.58
1:M5:198:ILE:HG23	1:M5:324:PHE:HE2	1.68	0.58
1:M7:33:PHE:HA	1:M7:61:THR:HG23	1.86	0.58
1:M8:104:SER:HG	1:M8:183:THR:HG1	1.39	0.58
1:M8:135:ASP:OD1	1:M8:136:ALA:N	2.36	0.58
1:MR:455:LYS:NZ	1:MR:473:ASP:OD1	2.28	0.58
1:MS:467:TRP:HZ3	1:MU:199:GLU:HB2	1.67	0.58
1:MW:32:LYS:NZ	1:MW:347:ASN:O	2.37	0.58
1:MZ:379:ALA:HA	1:MZ:411:ARG:HB2	1.86	0.58
1:Ma:137:ASP:OD1	1:Ma:137:ASP:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mc:406:LEU:HD13	1:Mc:475:ALA:HB2	1.85	0.58
1:Mw:193:ILE:HG21	1:Mw:223:VAL:HG11	1.84	0.58
1:Mz:383:LEU:HD11	1:Mz:436:TYR:CE2	2.38	0.58
1:Mz:561:LYS:HD2	1:NX:10:LEU:HB3	1.86	0.58
1:NW:368:VAL:O	1:NW:400:ARG:NH2	2.37	0.58
1:NW:485:SER:OG	1:NW:486:GLN:N	2.33	0.58
1:Nb:28:ALA:HB2	1:Nb:370:VAL:HG21	1.86	0.58
1:Nf:157:VAL:HG23	1:Nf:159:GLU:HG3	1.85	0.58
1:Nx:159:GLU:OE2	1:Nx:166:ASN:ND2	2.36	0.58
2:OO:19:ASN:OD1	2:OO:19:ASN:N	2.23	0.58
2:PL:41:LEU:HG	2:PL:127:ILE:HD13	1.86	0.58
2:PO:72:THR:HG22	2:PO:154:GLU:HG3	1.86	0.58
2:RD:120:ALA:HB3	2:RD:121:LYS:HE2	1.85	0.58
2:RO:23:VAL:HG22	2:RO:36:CYS:SG	2.44	0.58
1:LX:47:GLU:OE1	1:LX:461:TYR:OH	2.22	0.58
1:La:524:PRO:HG2	1:La:536:TYR:HB3	1.86	0.58
1:Lb:406:LEU:HD13	1:Lb:475:ALA:HB2	1.84	0.58
1:M0:239:VAL:HG22	1:M0:280:ALA:HB3	1.85	0.58
1:M8:209:ASP:N	1:M8:209:ASP:OD1	2.35	0.58
1:MS:403:CYS:O	1:MS:558:ASN:ND2	2.35	0.58
1:MW:46:ASN:OD1	1:MW:47:GLU:N	2.37	0.58
1:MY:400:ARG:HD3	1:MY:403:CYS:SG	2.43	0.58
1:MY:450:ILE:O	1:MY:523:ASN:ND2	2.37	0.58
1:NV:380:GLY:H	1:NV:411:ARG:HD2	1.69	0.58
1:NX:28:ALA:HB2	1:NX:370:VAL:HG21	1.86	0.58
1:Na:235:GLU:OE2	1:Na:261:ARG:NH2	2.32	0.58
2:RK:83:GLN:HA	2:RK:86:VAL:HG22	1.85	0.58
2:RL:136:ASN:O	2:RL:136:ASN:ND2	2.37	0.58
2:RT:14:ASP:OD1	2:RT:17:ARG:NH2	2.29	0.58
2:RT:23:VAL:HG13	2:RT:36:CYS:SG	2.44	0.58
1:L0:366:GLU:OE1	1:L0:367:SER:N	2.36	0.58
1:L2:119:LYS:NZ	1:L2:124:ASP:OD1	2.25	0.58
1:L4:14:THR:HA	1:LY:643:VAL:HG22	1.85	0.58
1:L5:153:LYS:HB3	1:L5:167:TRP:HH2	1.69	0.58
1:L8:480:ARG:C	1:L8:482:ASP:H	2.12	0.58
1:LV:256:PRO:HG2	1:LV:339:THR:H	1.68	0.58
1:Lb:2:THR:OG1	1:Lb:3:LEU:N	2.37	0.58
1:Lb:33:PHE:HA	1:Lb:61:THR:HG23	1.85	0.58
1:Ld:33:PHE:HA	1:Ld:61:THR:HG23	1.85	0.58
1:M3:400:ARG:NH1	1:M3:402:ASP:OD1	2.36	0.58
1:M6:394:VAL:HG11	1:M6:443:ILE:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M7:561:LYS:NZ	1:Nf:12:GLU:OE2	2.25	0.58
1:MR:193:ILE:HG21	1:MR:223:VAL:HG11	1.85	0.58
1:Ma:617:VAL:HG22	1:Ma:622:GLU:HB2	1.86	0.58
1:Mb:211:GLN:NE2	1:Mb:329:ASN:OD1	2.30	0.58
1:Mc:121:VAL:HG13	1:Mc:166:ASN:HB3	1.86	0.58
1:Mw:143:ILE:HD12	1:Mw:145:ILE:HD11	1.84	0.58
1:Mx:166:ASN:OD1	1:Mx:166:ASN:N	2.27	0.58
1:Na:645:THR:OG1	1:Nb:629:ILE:O	2.21	0.58
1:Nc:2:THR:OG1	1:Nc:3:LEU:N	2.37	0.58
1:Nf:303:ASP:OD1	1:Nf:304:ILE:N	2.36	0.58
1:Nf:485:SER:OG	1:Nf:486:GLN:N	2.37	0.58
1:Ni:400:ARG:NH1	1:Ni:403:CYS:SG	2.77	0.58
2:OL:23:VAL:HG11	2:OL:39:THR:HG21	1.86	0.58
2:OL:97:ASN:HA	2:RM:3:VAL:HG12	1.85	0.58
2:Oh:62:GLY:O	2:Oi:118:ARG:NH2	2.35	0.58
2:PJ:3:VAL:HG12	2:RI:97:ASN:HA	1.86	0.58
2:PJ:140:LEU:HD13	2:PJ:153:PHE:HB3	1.86	0.58
1:K1:240:SER:OG	1:K1:335:SER:OG	2.22	0.58
1:K4:271:TYR:OH	1:Nd:549:ASP:OD2	2.13	0.58
1:K6:453:ASN:N	1:K6:453:ASN:OD1	2.37	0.58
1:L8:332:GLU:OE1	1:L8:332:GLU:N	2.34	0.58
1:L9:202:GLU:OE1	1:L9:203:ALA:N	2.37	0.58
1:LR:134:VAL:HG12	1:LR:140:ILE:HG22	1.85	0.58
1:LR:617:VAL:HG22	1:LR:622:GLU:HB2	1.86	0.58
1:LV:642:PHE:CE2	1:LW:564:ILE:HD11	2.39	0.58
1:LZ:100:GLU:HB3	1:LZ:188:ILE:HD11	1.85	0.58
1:Lb:373:PHE:HB2	1:Lb:405:VAL:HG22	1.86	0.58
1:Ld:195:LEU:HD23	1:Ld:195:LEU:H	1.68	0.58
1:Lx:526:THR:OG1	1:Lz:366:GLU:OE2	2.20	0.58
1:M5:44:VAL:HG11	1:M5:50:LEU:HB2	1.85	0.58
1:M7:538:ASP:N	1:M7:538:ASP:OD1	2.37	0.58
1:MX:494:TYR:O	1:MX:498:GLN:NE2	2.35	0.58
1:MY:66:MET:HG2	1:MY:468:VAL:HG21	1.84	0.58
1:Ma:486:GLN:NE2	2:Oq:11:GLU:OE1	2.37	0.58
1:Md:121:VAL:HG13	1:Md:166:ASN:HB3	1.86	0.58
1:Mz:206:THR:HA	1:Mz:211:GLN:HE21	1.69	0.58
1:NV:577:ASN:HA	1:NV:581:ARG:HH21	1.69	0.58
1:NZ:612:ASN:HB3	1:NZ:624:VAL:HG23	1.86	0.58
1:Na:90:LYS:NZ	1:Na:190:ASP:OD1	2.36	0.58
1:Na:154:ALA:HA	1:Na:157:VAL:HG22	1.86	0.58
1:Nd:514:ARG:NH1	1:Ne:366:GLU:OE2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ne:66:MET:HG2	1:Ne:468:VAL:HG11	1.85	0.58
1:Ne:135:ASP:OD1	1:Ne:136:ALA:N	2.35	0.58
1:Nh:375:ALA:HB1	1:Nh:390:GLN:HG2	1.86	0.58
1:Nj:406:LEU:HD13	1:Nj:475:ALA:HB2	1.84	0.58
1:Nv:114:ASP:N	1:Nv:114:ASP:OD1	2.37	0.58
1:Nv:455:LYS:HD3	1:Nv:502:VAL:HG13	1.86	0.58
1:Nz:485:SER:OG	1:Nz:486:GLN:N	2.32	0.58
2:OG:63:ASP:OD2	2:Om:147:ASN:ND2	2.37	0.58
2:OL:1:MET:H3	2:Oq:120:ALA:HB1	1.68	0.58
2:Oh:47:GLU:OE1	2:PD:148:ASN:ND2	2.35	0.58
2:Or:67:ASP:N	2:Or:67:ASP:OD1	2.32	0.58
2:Po:1:MET:HE2	2:RJ:120:ALA:HB1	1.86	0.58
2:RT:83:GLN:NE2	2:RT:87:ASP:OD1	2.37	0.58
1:K1:119:LYS:HE3	1:K1:122:SER:HA	1.86	0.57
1:K4:455:LYS:HB2	1:K4:470:LEU:HD13	1.85	0.57
1:K7:391:LYS:NZ	1:K7:440:ASN:O	2.36	0.57
1:L0:457:GLN:HA	1:L0:503:ILE:HG23	1.86	0.57
1:L5:82:ARG:NH2	1:L5:227:PRO:O	2.37	0.57
1:LQ:406:LEU:HD13	1:LQ:475:ALA:HB2	1.86	0.57
1:LU:39:PHE:HE1	1:LU:86:ARG:HD2	1.68	0.57
1:LZ:116:ILE:HD12	1:LZ:171:ILE:HG12	1.86	0.57
1:La:29:LEU:O	1:La:80:VAL:HA	2.04	0.57
1:Le:33:PHE:HA	1:Le:61:THR:HG23	1.85	0.57
1:Lw:228:GLY:HA2	1:Lw:345:SER:HB3	1.84	0.57
1:M7:2:THR:OG1	1:M7:3:LEU:N	2.37	0.57
1:MR:645:THR:OG1	1:MS:629:ILE:O	2.21	0.57
1:MS:239:VAL:HG23	1:MS:280:ALA:HB3	1.85	0.57
1:MU:47:GLU:OE1	1:MU:461:TYR:OH	2.22	0.57
1:MW:228:GLY:HA2	1:MW:345:SER:HB3	1.85	0.57
1:MZ:549:ASP:O	1:MZ:550:ARG:NE	2.36	0.57
1:Mw:57:PRO:HB3	1:Mw:62:ALA:HA	1.86	0.57
1:Mx:406:LEU:HD13	1:Mx:475:ALA:HB2	1.86	0.57
1:NV:373:PHE:HB2	1:NV:405:VAL:HG22	1.85	0.57
1:NZ:549:ASP:O	1:NZ:550:ARG:NE	2.33	0.57
1:Na:198:ILE:HG23	1:Na:324:PHE:HE2	1.69	0.57
1:Ni:209:ASP:N	1:Ni:209:ASP:OD1	2.35	0.57
1:Nj:36:GLY:O	1:Nj:82:ARG:NH1	2.34	0.57
1:Nx:131:ILE:HD11	1:Nx:171:ILE:HD13	1.86	0.57
2:OM:114:ARG:HG2	2:OM:126:GLU:HG3	1.85	0.57
2:PM:25:ILE:HD13	2:PM:111:ALA:HB2	1.86	0.57
2:Pk:49:ILE:HD11	2:RG:150:ILE:HG22	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pm:39:THR:HG22	2:Pm:71:VAL:HG22	1.85	0.57
2:Pt:82:ARG:NH1	2:Pt:138:GLY:HA2	2.18	0.57
2:Rp:49:ILE:HG13	2:Rp:60:VAL:HG12	1.85	0.57
1:K5:284:ARG:HE	1:K5:289:ILE:HG12	1.69	0.57
1:K6:561:LYS:HB3	1:LZ:10:LEU:HD13	1.86	0.57
1:L1:26:THR:HA	1:L1:77:ASP:O	2.03	0.57
1:L3:510:ARG:HG2	1:L3:511:GLN:H	1.69	0.57
1:L9:510:ARG:HG2	1:L9:511:GLN:H	1.69	0.57
1:LX:467:TRP:CZ3	1:LY:199:GLU:HB2	2.38	0.57
1:La:463:ASP:OD1	1:Lb:317:LYS:NZ	2.33	0.57
1:Ld:375:ALA:HB1	1:Ld:390:GLN:HG2	1.86	0.57
1:Lv:110:TYR:H	1:Lv:138:GLY:HA3	1.68	0.57
1:Lv:571:ARG:NH1	1:Lv:583:SER:OG	2.37	0.57
1:Lw:105:THR:HB	1:Lw:181:VAL:H	1.68	0.57
1:M1:455:LYS:HG3	1:M1:502:VAL:HG13	1.85	0.57
1:M4:379:ALA:HA	1:M4:411:ARG:HB2	1.85	0.57
1:M5:247:GLY:HA2	1:M5:266:LYS:HG3	1.87	0.57
1:MQ:375:ALA:HB1	1:MQ:390:GLN:HG2	1.86	0.57
1:Md:494:TYR:O	1:Md:498:GLN:NE2	2.25	0.57
1:Me:205:MET:O	1:Me:211:GLN:NE2	2.29	0.57
1:Me:373:PHE:HB2	1:Me:405:VAL:HG22	1.86	0.57
1:NV:134:VAL:HG12	1:NV:140:ILE:HG22	1.85	0.57
1:NW:256:PRO:HG2	1:NW:339:THR:H	1.68	0.57
1:NW:538:ASP:N	1:NW:538:ASP:OD1	2.35	0.57
1:NX:11:LYS:HG2	1:NX:13:THR:HG23	1.86	0.57
1:Nc:119:LYS:NZ	1:Nc:124:ASP:OD1	2.35	0.57
1:Nv:101:TYR:OH	1:Nv:216:LYS:O	2.23	0.57
1:Nw:563:ASN:OD1	1:Nw:591:TYR:OH	2.14	0.57
2:Ol:39:THR:HG22	2:Ol:71:VAL:HG13	1.87	0.57
2:On:67:ASP:OD1	2:On:67:ASP:N	2.25	0.57
2:Ph:58:ILE:HD12	2:Pi:6:VAL:HG21	1.85	0.57
2:Pr:91:ILE:HG22	2:Pr:107:TYR:HB3	1.85	0.57
2:RC:37:LYS:NZ	2:RC:152:THR:OG1	2.33	0.57
2:Rl:22:GLN:HB2	2:Rl:116:TYR:HE1	1.68	0.57
2:Rq:136:ASN:HB3	2:Rq:156:THR:HG23	1.86	0.57
1:K0:116:ILE:HD11	1:K0:131:ILE:HG13	1.84	0.57
1:K0:457:GLN:HA	1:K0:503:ILE:HG23	1.86	0.57
1:K3:510:ARG:HG2	1:K3:511:GLN:H	1.68	0.57
1:K4:119:LYS:HE3	1:K4:122:SER:HA	1.85	0.57
1:K8:454:TYR:HB3	1:K8:467:TRP:HD1	1.70	0.57
1:L1:538:ASP:OD1	1:L1:538:ASP:N	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L1:617:VAL:HG22	1:L1:622:GLU:HB2	1.86	0.57
1:LQ:478:CYS:O	1:LQ:555:ARG:NH1	2.35	0.57
1:LS:140:ILE:O	1:LS:141:LYS:NZ	2.36	0.57
1:La:137:ASP:OD1	1:La:137:ASP:N	2.37	0.57
1:Lc:57:PRO:HG3	1:Lc:65:PHE:CD1	2.38	0.57
1:Lv:272:GLY:O	1:Lv:274:GLN:NE2	2.37	0.57
1:Lw:406:LEU:HD13	1:Lw:475:ALA:HB2	1.87	0.57
1:Lz:490:SER:OG	1:Lz:538:ASP:OD2	2.15	0.57
1:M0:366:GLU:OE1	1:M0:367:SER:N	2.38	0.57
1:M5:74:TYR:CD1	1:M5:476:GLY:HA3	2.39	0.57
1:MV:225:LEU:HD12	1:MV:324:PHE:HB2	1.85	0.57
1:Md:538:ASP:OD1	1:Md:538:ASP:N	2.35	0.57
1:Mx:423:VAL:HG21	1:Mx:513:GLN:HB3	1.87	0.57
1:NX:515:ASP:OD1	1:Nx:5:SER:N	2.35	0.57
1:Na:368:VAL:O	1:Na:400:ARG:NH2	2.37	0.57
1:Nf:494:TYR:HE2	1:Nf:528:THR:HG21	1.68	0.57
1:Nj:33:PHE:HA	1:Nj:61:THR:HG23	1.85	0.57
1:Nj:46:ASN:OD1	1:Nj:47:GLU:N	2.36	0.57
1:Nj:108:SER:OG	1:Nj:137:ASP:OD2	2.22	0.57
1:Nz:215:LYS:HB2	1:Nz:329:ASN:ND2	2.20	0.57
2:OE:70:THR:HG22	2:OE:156:THR:HG22	1.85	0.57
2:PD:140:LEU:HD11	2:PD:151:GLN:HG2	1.85	0.57
2:PF:114:ARG:HG2	2:PF:126:GLU:HG3	1.87	0.57
1:K5:47:GLU:OE1	1:K5:461:TYR:OH	2.23	0.57
1:K5:453:ASN:HB2	1:K5:506:ALA:HB3	1.85	0.57
1:K5:561:LYS:HB3	1:LY:10:LEU:HD13	1.86	0.57
1:K6:427:VAL:HG13	1:K6:520:GLU:HG3	1.86	0.57
1:K6:485:SER:OG	1:K6:486:GLN:N	2.37	0.57
1:K9:505:LEU:HD21	1:K9:525:VAL:HG12	1.85	0.57
1:Lc:593:GLN:NE2	2:Rs:4:ASP:OD2	2.36	0.57
1:Ld:455:LYS:NZ	1:Ld:457:GLN:OE1	2.37	0.57
1:Lv:33:PHE:HA	1:Lv:61:THR:HG23	1.86	0.57
1:M1:94:PRO:HD3	1:M1:222:VAL:O	2.05	0.57
1:M4:110:TYR:H	1:M4:138:GLY:HA3	1.68	0.57
1:M6:478:CYS:O	1:M6:555:ARG:NH1	2.36	0.57
1:M8:566:ARG:HA	1:M8:569:LYS:HD2	1.86	0.57
1:MU:140:ILE:O	1:MU:141:LYS:NZ	2.37	0.57
1:MX:432:ALA:HB2	1:MX:440:ASN:HD22	1.70	0.57
1:MZ:264:THR:O	1:MZ:266:LYS:N	2.38	0.57
1:Md:117:THR:HG23	1:Md:127:THR:HA	1.85	0.57
1:Md:349:GLU:OE1	1:Md:349:GLU:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mw:485:SER:OG	1:Mw:486:GLN:N	2.37	0.57
1:Na:601:ILE:HG23	1:Na:629:ILE:HD12	1.87	0.57
1:Nc:90:LYS:NZ	1:Nc:190:ASP:OD1	2.37	0.57
1:Nd:209:ASP:N	1:Nd:209:ASP:OD1	2.26	0.57
1:Ng:641:ASN:HB2	1:Nh:626:THR:HG23	1.87	0.57
1:Nx:432:ALA:HB2	1:Nx:440:ASN:HD22	1.69	0.57
2:PJ:54:MET:O	2:PJ:56:ARG:N	2.37	0.57
2:RG:14:ASP:OD1	2:RG:17:ARG:NH2	2.31	0.57
2:RJ:22:GLN:HB2	2:RJ:116:TYR:HE2	1.69	0.57
2:RN:25:ILE:O	2:RN:27:TYR:N	2.37	0.57
2:Rn:23:VAL:HG11	2:Rn:39:THR:HG21	1.86	0.57
1:K9:26:THR:HA	1:K9:77:ASP:O	2.04	0.57
1:LQ:131:ILE:HG12	1:LQ:143:ILE:HG22	1.86	0.57
1:LZ:246:LYS:HB2	1:LZ:250:ALA:HB2	1.87	0.57
1:Lx:91:ASN:N	1:Lx:91:ASN:OD1	2.37	0.57
1:Lz:636:ASN:OD1	1:Lz:636:ASN:N	2.38	0.57
1:M6:233:LYS:NZ	1:M6:286:ASN:OD1	2.34	0.57
1:MQ:135:ASP:HB3	1:MQ:139:LYS:HB2	1.86	0.57
1:MY:450:ILE:HG22	1:MY:541:ALA:HB2	1.87	0.57
1:MZ:278:GLN:HG2	1:MZ:296:SER:HB3	1.86	0.57
1:Me:26:THR:HA	1:Me:77:ASP:O	2.05	0.57
1:Mw:26:THR:HA	1:Mw:77:ASP:O	2.04	0.57
1:Mz:492:ALA:HB2	1:Mz:535:LEU:HD13	1.86	0.57
1:NW:34:GLN:NE2	1:NW:56:GLN:O	2.37	0.57
1:Nd:480:ARG:O	1:Nd:484:VAL:HG12	2.03	0.57
1:Ni:470:LEU:HD23	1:Ni:525:VAL:HG21	1.86	0.57
1:Ni:505:LEU:HD22	1:Ni:533:TYR:HD2	1.68	0.57
1:Nx:29:LEU:O	1:Nx:80:VAL:HA	2.05	0.57
1:Nz:215:LYS:HB2	1:Nz:329:ASN:HD22	1.70	0.57
2:OE:131:GLY:O	2:OE:159:LEU:HA	2.05	0.57
2:ON:140:LEU:HD13	2:ON:153:PHE:HB3	1.86	0.57
2:Oj:11:GLU:OE2	2:PE:31:ASN:ND2	2.36	0.57
2:Op:82:ARG:NH1	2:Op:138:GLY:HA2	2.19	0.57
2:Rk:56:ARG:HB3	2:Rk:56:ARG:HH11	1.70	0.57
2:Rn:140:LEU:HD13	2:Rn:153:PHE:HB3	1.86	0.57
1:K2:486:GLN:NE2	2:RH:11:GLU:OE1	2.37	0.57
1:LQ:164:GLY:H	1:LQ:167:TRP:CD1	2.22	0.57
1:LU:198:ILE:HD11	1:LU:225:LEU:HD11	1.86	0.57
1:Lw:116:ILE:HD11	1:Lw:131:ILE:HG13	1.87	0.57
1:Lx:406:LEU:HD13	1:Lx:475:ALA:HB2	1.86	0.57
1:Lx:459:ASP:OD2	1:Lx:466:ARG:NH1	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M5:106:PRO:HB2	1:M5:139:LYS:HZ3	1.69	0.57
1:M5:221:GLY:O	1:M5:325:ALA:HA	2.03	0.57
1:MR:571:ARG:HH11	1:MR:584:PHE:HD1	1.52	0.57
1:MS:303:ASP:OD1	1:MS:304:ILE:N	2.38	0.57
1:MX:467:TRP:CZ3	1:MY:199:GLU:HB2	2.39	0.57
1:MZ:494:TYR:HE2	1:MZ:528:THR:HG21	1.70	0.57
1:Ma:523:ASN:N	1:Ma:523:ASN:OD1	2.37	0.57
1:Mc:46:ASN:OD1	1:Mc:47:GLU:N	2.37	0.57
1:Mc:538:ASP:N	1:Mc:538:ASP:OD1	2.37	0.57
1:Md:368:VAL:O	1:Md:400:ARG:NH2	2.38	0.57
1:Md:427:VAL:HG13	1:Md:520:GLU:HG3	1.87	0.57
1:Mz:480:ARG:C	1:Mz:482:ASP:H	2.11	0.57
1:NV:655:THR:HB	1:Nv:19:VAL:HG21	1.87	0.57
1:Ng:373:PHE:HE1	1:Ng:403:CYS:HG	1.51	0.57
1:Ni:378:CYS:HB2	1:Ni:410:PRO:HA	1.87	0.57
1:Ni:538:ASP:OD1	1:Ni:538:ASP:N	2.37	0.57
1:Nv:11:LYS:HG2	1:Nv:13:THR:HG23	1.87	0.57
2:OH:47:GLU:OE1	2:On:148:ASN:ND2	2.28	0.57
2:OK:114:ARG:HG2	2:OK:126:GLU:HG3	1.85	0.57
2:PJ:24:GLU:OE1	2:PJ:33:THR:OG1	2.19	0.57
2:Pq:49:ILE:HG13	2:Pq:60:VAL:HG12	1.85	0.57
1:K2:467:TRP:HZ3	1:K3:199:GLU:HB2	1.69	0.57
1:K4:455:LYS:HG3	1:K4:502:VAL:HG13	1.85	0.57
1:K7:378:CYS:HB2	1:K7:410:PRO:HA	1.87	0.57
1:K9:239:VAL:HG22	1:K9:280:ALA:HB3	1.85	0.57
1:K9:430:ARG:NH2	1:K9:443:ILE:O	2.36	0.57
1:L0:131:ILE:HD13	1:L0:140:ILE:HG21	1.85	0.57
1:L3:645:THR:OG1	1:L4:629:ILE:O	2.23	0.57
1:L6:28:ALA:HB2	1:L6:370:VAL:HG21	1.86	0.57
1:LR:154:ALA:HA	1:LR:157:VAL:HG22	1.87	0.57
1:LR:159:GLU:O	1:LR:162:THR:N	2.37	0.57
1:LR:628:TYR:HH	1:Lv:17:SER:HG	1.53	0.57
1:Ld:228:GLY:HA2	1:Ld:345:SER:HB3	1.86	0.57
1:Le:101:TYR:OH	1:Le:216:LYS:O	2.23	0.57
1:M1:564:ILE:HD11	1:Mz:642:PHE:CE2	2.39	0.57
1:M5:40:GLN:H	1:M5:81:VAL:HG23	1.70	0.57
1:M8:406:LEU:HD13	1:M8:475:ALA:HB2	1.85	0.57
1:M8:455:LYS:HB2	1:M8:470:LEU:HD13	1.85	0.57
1:MS:406:LEU:HD13	1:MS:475:ALA:HB2	1.86	0.57
1:MU:427:VAL:HG13	1:MU:520:GLU:HG3	1.85	0.57
1:Mw:490:SER:O	1:Mw:496:ARG:NH1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mx:2:THR:OG1	1:Mx:3:LEU:N	2.34	0.57
1:Na:494:TYR:HE2	1:Na:528:THR:HG21	1.69	0.57
1:Nb:264:THR:O	1:Nb:266:LYS:N	2.38	0.57
1:Ne:487:THR:HG21	1:Ne:559:MET:HE3	1.85	0.57
1:Nw:495:ASN:OD1	1:Nw:495:ASN:N	2.27	0.57
2:Oo:115:GLN:NE2	2:PJ:151:GLN:OE1	2.36	0.57
2:Op:62:GLY:O	2:Oq:118:ARG:NH2	2.37	0.57
2:PK:70:THR:HG22	2:PK:156:THR:HG22	1.86	0.57
2:RE:58:ILE:HD12	2:RF:6:VAL:HG21	1.85	0.57
2:RH:131:GLY:O	2:RH:159:LEU:HA	2.03	0.57
2:RT:39:THR:HG22	2:RT:71:VAL:HG22	1.86	0.57
1:K0:107:GLY:HA3	1:K0:110:TYR:HE2	1.70	0.57
1:K8:654:LEU:HD13	1:K9:605:ARG:HD3	1.87	0.57
1:L0:609:ASP:OD1	1:L0:611:THR:OG1	2.19	0.57
1:L2:642:PHE:CE1	1:L3:564:ILE:HD11	2.39	0.57
1:L8:256:PRO:HG2	1:L8:339:THR:H	1.70	0.57
1:LU:36:GLY:O	1:LU:82:ARG:NH1	2.38	0.57
1:LV:400:ARG:NH1	1:LV:403:CYS:SG	2.78	0.57
1:LW:105:THR:HB	1:LW:181:VAL:H	1.70	0.57
1:LY:584:PHE:O	1:LY:588:THR:OG1	2.22	0.57
1:Lb:372:LEU:HD21	1:Lb:478:CYS:HB2	1.85	0.57
1:Lv:33:PHE:O	1:Lv:82:ARG:NH2	2.38	0.57
1:M0:102:THR:HB	1:M0:183:THR:HB	1.87	0.57
1:M5:438:ASP:OD1	1:M5:438:ASP:N	2.38	0.57
1:MS:23:SER:O	1:MS:76:ASN:HB2	2.05	0.57
1:MV:119:LYS:NZ	1:MV:124:ASP:OD1	2.37	0.57
1:MY:100:GLU:OE2	1:MY:186:LYS:NZ	2.37	0.57
1:MZ:400:ARG:HD3	1:MZ:403:CYS:SG	2.44	0.57
1:Md:490:SER:OG	1:Md:538:ASP:OD2	2.20	0.57
1:Mv:33:PHE:O	1:Mv:82:ARG:NH2	2.38	0.57
1:NV:645:THR:OG1	1:NW:629:ILE:O	2.21	0.57
1:Nc:159:GLU:OE1	1:Nc:164:GLY:N	2.38	0.57
1:Nx:394:VAL:HG11	1:Nx:443:ILE:HD12	1.86	0.57
2:OE:143:ASP:OD1	2:OE:144:TRP:N	2.38	0.57
2:OF:56:ARG:HB3	2:OF:56:ARG:HH11	1.69	0.57
2:OG:64:ARG:NH1	2:Ol:95:GLN:HG3	2.19	0.57
2:OO:113:VAL:HG13	2:OO:127:ILE:HG12	1.87	0.57
2:RK:113:VAL:HG13	2:RK:127:ILE:HG12	1.85	0.57
2:Rm:46:VAL:HG22	2:Rm:64:ARG:HB2	1.85	0.57
2:Rt:17:ARG:HG3	2:Rt:20:LEU:HD12	1.86	0.57
1:L4:509:THR:O	1:L4:514:ARG:NH1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:110:TYR:H	1:L5:138:GLY:HA3	1.70	0.57
1:LV:444:SER:OG	1:LV:543:SER:OG	2.16	0.57
1:LY:366:GLU:OE1	1:LY:367:SER:N	2.38	0.57
1:LY:378:CYS:HB2	1:LY:410:PRO:HA	1.87	0.57
1:LZ:237:GLU:OE1	1:LZ:284:ARG:NH1	2.36	0.57
1:Lb:219:ILE:HG22	1:Lb:255:TYR:HD2	1.70	0.57
1:Lw:70:ASN:OD1	1:Lw:457:GLN:NE2	2.32	0.57
1:Lw:131:ILE:HD13	1:Lw:140:ILE:HG21	1.86	0.57
1:Lx:130:LYS:HZ3	1:Lx:132:THR:HG22	1.70	0.57
1:Lz:488:TRP:O	1:Lz:552:ASN:ND2	2.37	0.57
1:M1:240:SER:OG	1:M1:243:ASP:OD1	2.23	0.57
1:M2:561:LYS:NZ	1:Na:12:GLU:OE2	2.26	0.57
1:M4:116:ILE:HD13	1:M4:171:ILE:HG12	1.86	0.57
1:M7:41:ILE:HD11	1:M7:361:PHE:HB3	1.87	0.57
1:M7:392:HIS:O	1:M7:395:SER:OG	2.18	0.57
1:MV:642:PHE:CE1	1:MW:564:ILE:HD11	2.40	0.57
1:Me:147:THR:HG22	1:Me:150:ILE:HD12	1.85	0.57
1:Nb:100:GLU:OE2	1:Nb:186:LYS:NZ	2.36	0.57
1:Nf:107:GLY:HA3	1:Nf:110:TYR:CE2	2.40	0.57
1:Nj:264:THR:O	1:Nj:266:LYS:N	2.38	0.57
1:Nv:134:VAL:HG12	1:Nv:140:ILE:HG22	1.87	0.57
1:Nx:105:THR:HB	1:Nx:181:VAL:H	1.70	0.57
1:Nx:406:LEU:HD13	1:Nx:475:ALA:HB2	1.86	0.57
2:OC:58:ILE:HD12	2:OD:6:VAL:HG21	1.86	0.57
2:Oi:63:ASP:OD2	2:PE:147:ASN:ND2	2.26	0.57
2:On:39:THR:HG22	2:On:71:VAL:HG13	1.87	0.57
2:PG:75:ASN:ND2	2:PG:151:GLN:OE1	2.32	0.57
2:RS:140:LEU:HD13	2:RS:153:PHE:HB3	1.87	0.57
2:Ro:19:ASN:OD1	2:Ro:19:ASN:N	2.37	0.57
1:L4:378:CYS:HB2	1:L4:410:PRO:HA	1.86	0.57
1:LQ:349:GLU:OE1	1:LQ:349:GLU:N	2.38	0.57
1:Lb:538:ASP:N	1:Lb:538:ASP:OD1	2.35	0.57
1:Lx:561:LYS:NZ	1:MR:12:GLU:OE2	2.30	0.57
1:M0:121:VAL:HG22	1:M0:166:ASN:HB3	1.87	0.57
1:M5:510:ARG:HG2	1:M5:511:GLN:H	1.70	0.57
1:MU:228:GLY:HA2	1:MU:345:SER:HB3	1.87	0.57
1:MW:44:VAL:HG11	1:MW:50:LEU:HB2	1.85	0.57
1:MY:538:ASP:OD1	1:MY:538:ASP:N	2.37	0.57
1:MZ:57:PRO:HB3	1:MZ:62:ALA:HA	1.86	0.57
1:Md:237:GLU:OE1	1:Md:284:ARG:NH1	2.33	0.57
1:Md:478:CYS:O	1:Md:555:ARG:NH1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mw:103:ILE:HD13	1:Mw:182:ILE:HG22	1.87	0.57
1:Nj:440:ASN:ND2	1:Nj:442:ASN:HB2	2.18	0.57
1:Nv:456:TYR:HB3	1:Nv:503:ILE:HG12	1.85	0.57
2:Om:118:ARG:N	2:PH:77:GLU:OE2	2.38	0.57
2:Op:136:ASN:O	2:Op:136:ASN:ND2	2.33	0.57
1:K0:549:ASP:OD2	1:Le:271:TYR:OH	2.14	0.56
1:K3:494:TYR:HE2	1:K3:528:THR:HG21	1.70	0.56
1:K8:209:ASP:OD1	1:K8:209:ASP:N	2.36	0.56
1:K9:202:GLU:OE1	1:K9:203:ALA:N	2.38	0.56
1:L0:494:TYR:O	1:L0:498:GLN:NE2	2.37	0.56
1:L1:629:ILE:O	1:Lz:645:THR:OG1	2.19	0.56
1:L8:272:GLY:O	1:L8:274:GLN:NE2	2.38	0.56
1:L8:561:LYS:HD2	1:Mb:10:LEU:HD13	1.87	0.56
1:LU:394:VAL:HG11	1:LU:443:ILE:HD12	1.86	0.56
1:LW:432:ALA:HB2	1:LW:442:ASN:HB2	1.87	0.56
1:LZ:116:ILE:HD11	1:LZ:131:ILE:HG13	1.87	0.56
1:La:303:ASP:OD1	1:La:304:ILE:N	2.38	0.56
1:Lv:40:GLN:H	1:Lv:81:VAL:HG23	1.70	0.56
1:M4:264:THR:O	1:M4:266:LYS:N	2.38	0.56
1:M7:400:ARG:NH1	1:M7:403:CYS:SG	2.78	0.56
1:M8:368:VAL:O	1:M8:400:ARG:NH2	2.38	0.56
1:M9:119:LYS:NZ	1:M9:124:ASP:OD1	2.38	0.56
1:MQ:205:MET:O	1:MQ:211:GLN:NE2	2.38	0.56
1:MS:480:ARG:C	1:MS:482:ASP:H	2.13	0.56
1:MU:209:ASP:OD1	1:MU:209:ASP:N	2.35	0.56
1:Md:467:TRP:CH2	1:Me:199:GLU:HB3	2.40	0.56
1:Me:438:ASP:OD1	1:Me:439:ASN:N	2.38	0.56
1:Mx:107:GLY:HA3	1:Mx:110:TYR:HE2	1.69	0.56
1:NX:114:ASP:OD1	1:NX:114:ASP:N	2.37	0.56
1:Nc:44:VAL:HG11	1:Nc:50:LEU:HB2	1.85	0.56
1:Nf:400:ARG:HD3	1:Nf:403:CYS:SG	2.45	0.56
1:Nf:494:TYR:OH	1:Ng:569:LYS:NZ	2.38	0.56
1:Nh:41:ILE:HD11	1:Nh:361:PHE:HB3	1.86	0.56
1:Nh:256:PRO:HG2	1:Nh:339:THR:H	1.70	0.56
1:Nj:119:LYS:HG2	1:Nj:124:ASP:HA	1.86	0.56
1:Nv:133:GLU:HB3	1:Nv:142:LYS:HB3	1.87	0.56
1:Nw:83:ALA:HB2	1:Nw:358:ALA:HB2	1.87	0.56
1:Nx:44:VAL:HG11	1:Nx:50:LEU:HB2	1.86	0.56
2:OM:48:LYS:HG3	2:OM:59:ASN:HB3	1.86	0.56
2:OO:99:ILE:HG13	2:RO:56:ARG:HG3	1.87	0.56
2:PO:47:GLU:HB2	2:PO:63:ASP:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Po:23:VAL:HG11	2:Po:39:THR:HG21	1.86	0.56
2:Rt:143:ASP:OD1	2:Rt:144:TRP:N	2.37	0.56
1:K0:131:ILE:HD11	1:K0:171:ILE:HD13	1.87	0.56
1:K3:362:PHE:HD1	1:K3:368:VAL:HG11	1.70	0.56
1:L3:549:ASP:OD2	1:MX:271:TYR:OH	2.13	0.56
1:L5:571:ARG:NH2	1:L5:587:GLU:OE1	2.33	0.56
1:L7:379:ALA:HA	1:L7:411:ARG:HB2	1.85	0.56
1:LY:484:VAL:HG13	1:LY:485:SER:H	1.70	0.56
1:LZ:394:VAL:HG11	1:LZ:443:ILE:HD12	1.87	0.56
1:Lz:470:LEU:HD23	1:Lz:525:VAL:HG21	1.87	0.56
1:M1:617:VAL:HG22	1:M1:622:GLU:HB2	1.86	0.56
1:M7:511:GLN:OE1	1:M7:514:ARG:NH2	2.38	0.56
1:MU:34:GLN:HE21	1:MU:56:GLN:H	1.53	0.56
1:MX:560:LEU:O	1:MX:564:ILE:HG12	2.05	0.56
1:Mw:151:ILE:HG22	1:Mw:187:ILE:HG13	1.86	0.56
1:Mx:575:LEU:HB3	1:Mx:577:ASN:HD22	1.69	0.56
1:NV:455:LYS:HD3	1:NV:502:VAL:HG22	1.86	0.56
1:NZ:209:ASP:OD1	1:NZ:209:ASP:N	2.38	0.56
1:Nc:403:CYS:O	1:Nc:558:ASN:ND2	2.38	0.56
1:Ne:116:ILE:HD11	1:Ne:131:ILE:HG13	1.87	0.56
1:Nv:143:ILE:HD12	1:Nv:145:ILE:HD11	1.87	0.56
1:Nz:480:ARG:C	1:Nz:482:ASP:H	2.13	0.56
2:Pr:67:ASP:N	2:Pr:67:ASP:OD1	2.38	0.56
2:RN:38:ALA:HB3	2:RN:72:THR:HG23	1.87	0.56
2:Rn:14:ASP:OD1	2:Rn:17:ARG:NH2	2.38	0.56
1:K1:391:LYS:NZ	1:K1:440:ASN:O	2.38	0.56
1:K3:119:LYS:NZ	1:K3:124:ASP:OD1	2.38	0.56
1:K3:400:ARG:HD3	1:K3:403:CYS:SG	2.45	0.56
1:K7:485:SER:OG	1:K7:486:GLN:N	2.38	0.56
1:K9:166:ASN:OD1	1:K9:166:ASN:N	2.30	0.56
1:L2:205:MET:O	1:L2:211:GLN:NE2	2.38	0.56
1:L6:444:SER:OG	1:L6:543:SER:OG	2.19	0.56
1:L7:2:THR:OG1	1:L7:3:LEU:N	2.38	0.56
1:L9:561:LYS:HB3	1:Mc:10:LEU:HD13	1.86	0.56
1:LW:44:VAL:HG11	1:LW:50:LEU:HB2	1.87	0.56
1:LW:617:VAL:HG22	1:LW:622:GLU:HB2	1.88	0.56
1:LW:642:PHE:CE1	1:LX:564:ILE:HD11	2.40	0.56
1:Lb:379:ALA:HB2	1:Lb:454:TYR:HE2	1.71	0.56
1:Lv:375:ALA:HB3	1:Lv:407:CYS:HA	1.88	0.56
1:Lx:430:ARG:HG3	1:Lx:522:ILE:HD11	1.86	0.56
1:M0:569:LYS:HD3	1:M9:494:TYR:CZ	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M2:406:LEU:HD22	1:M2:474:ILE:HG13	1.86	0.56
1:M5:36:GLY:O	1:M5:82:ARG:NH1	2.38	0.56
1:M5:485:SER:OG	1:M5:486:GLN:N	2.34	0.56
1:M6:486:GLN:NE2	2:PL:11:GLU:OE1	2.39	0.56
1:M8:19:VAL:HG21	1:Mc:655:THR:HB	1.87	0.56
1:M8:427:VAL:O	1:M8:431:THR:OG1	2.21	0.56
1:MQ:57:PRO:HA	1:MQ:61:THR:HB	1.88	0.56
1:MS:23:SER:OG	1:MS:74:TYR:O	2.20	0.56
1:MV:487:THR:HG21	1:MV:559:MET:HE3	1.87	0.56
1:MW:494:TYR:HE2	1:MW:528:THR:HG21	1.69	0.56
1:Ma:39:PHE:HE2	1:Ma:86:ARG:HD2	1.70	0.56
1:Ma:494:TYR:O	1:Ma:498:GLN:NE2	2.39	0.56
1:Me:332:GLU:OE1	1:Me:332:GLU:N	2.37	0.56
1:Mw:349:GLU:OE1	1:Mw:349:GLU:N	2.38	0.56
1:Mw:409:PRO:HB3	1:Mw:426:LEU:HD21	1.87	0.56
1:Mx:432:ALA:HB2	1:Mx:442:ASN:HB2	1.86	0.56
1:Mz:617:VAL:HG22	1:Mz:622:GLU:HB2	1.86	0.56
1:NV:239:VAL:HG23	1:NV:280:ALA:HB3	1.87	0.56
1:NW:450:ILE:HG22	1:NW:541:ALA:HB2	1.88	0.56
1:NX:100:GLU:HB3	1:NX:188:ILE:HD11	1.88	0.56
1:NX:394:VAL:HG11	1:NX:443:ILE:HD12	1.87	0.56
1:NX:410:PRO:O	1:NX:413:THR:HG22	2.05	0.56
1:NX:521:ALA:HA	1:NX:539:LYS:HD3	1.87	0.56
1:Nc:34:GLN:HE21	1:Nc:56:GLN:H	1.52	0.56
1:Nd:41:ILE:HD11	1:Nd:361:PHE:HB3	1.87	0.56
1:Nf:229:GLU:OE2	1:Nf:345:SER:OG	2.23	0.56
1:Ng:427:VAL:O	1:Ng:431:THR:OG1	2.20	0.56
1:Nh:264:THR:O	1:Nh:266:LYS:N	2.38	0.56
1:Nh:406:LEU:HD13	1:Nh:475:ALA:HB2	1.86	0.56
1:Ni:458:TYR:HE1	1:Ni:460:LYS:HA	1.69	0.56
1:Nv:571:ARG:NH2	1:Nv:587:GLU:OE1	2.38	0.56
1:Nx:489:MET:HE1	1:Nz:575:LEU:HD13	1.86	0.56
1:Nz:108:SER:OG	1:Nz:137:ASP:OD2	2.24	0.56
2:OC:43:ALA:O	2:OC:162:TRP:NE1	2.33	0.56
2:OI:143:ASP:OD1	2:OI:144:TRP:N	2.38	0.56
2:OJ:39:THR:HG22	2:OJ:71:VAL:HG13	1.88	0.56
2:Oi:2:PHE:HD2	2:Ph:97:ASN:HB3	1.71	0.56
2:PG:69:TRP:HB2	2:PG:159:LEU:HD23	1.87	0.56
2:Pj:19:ASN:OD1	2:Pj:19:ASN:N	2.31	0.56
2:Pk:134:PRO:HA	2:Pk:157:LEU:HA	1.88	0.56
2:RS:76:ASP:OD1	2:RS:80:ASP:N	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K2:494:TYR:HE2	1:K2:528:THR:HG21	1.70	0.56
1:K8:379:ALA:HB2	1:K8:469:PRO:HD3	1.87	0.56
1:L3:143:ILE:HD12	1:L3:145:ILE:HD11	1.88	0.56
1:L5:135:ASP:HB3	1:L5:139:LYS:HB2	1.86	0.56
1:L7:107:GLY:HA3	1:L7:110:TYR:HE2	1.71	0.56
1:LR:157:VAL:HG23	1:LR:159:GLU:H	1.69	0.56
1:LS:423:VAL:HG13	1:LS:517:LEU:HD13	1.88	0.56
1:LW:40:GLN:H	1:LW:81:VAL:HG23	1.70	0.56
1:LW:488:TRP:O	1:LW:552:ASN:ND2	2.38	0.56
1:Lc:46:ASN:OD1	1:Lc:47:GLU:N	2.38	0.56
1:Le:351:THR:HG23	1:Le:354:ASP:H	1.71	0.56
1:Lx:240:SER:HG	1:Lx:335:SER:HG	1.52	0.56
1:M0:159:GLU:O	1:M0:162:THR:N	2.38	0.56
1:M5:235:GLU:OE2	1:M5:261:ARG:NH2	2.32	0.56
1:M9:119:LYS:HE3	1:M9:122:SER:HA	1.88	0.56
1:MR:35:TRP:HB2	1:MR:230:LEU:HD12	1.87	0.56
1:MS:642:PHE:CE1	1:MU:564:ILE:HD11	2.40	0.56
1:MW:495:ASN:OD1	1:MW:495:ASN:N	2.36	0.56
1:MX:455:LYS:HB2	1:MX:470:LEU:HD13	1.87	0.56
1:Md:273:PRO:HB3	1:Md:278:GLN:HB2	1.87	0.56
1:Nb:137:ASP:OD1	1:Nb:138:GLY:N	2.36	0.56
1:Nd:101:TYR:OH	1:Nd:216:LYS:O	2.23	0.56
1:Nf:91:ASN:N	1:Nf:91:ASN:OD1	2.38	0.56
1:Nh:102:THR:HB	1:Nh:183:THR:HB	1.87	0.56
1:Ni:526:THR:OG1	1:Nj:366:GLU:OE2	2.15	0.56
1:Nv:28:ALA:HB2	1:Nv:370:VAL:HG21	1.86	0.56
1:Nw:166:ASN:OD1	1:Nw:166:ASN:N	2.33	0.56
1:Nz:166:ASN:N	1:Nz:166:ASN:OD1	2.38	0.56
2:Or:69:TRP:HB2	2:Or:159:LEU:HD23	1.87	0.56
2:Pk:56:ARG:NH1	2:Pk:56:ARG:HB3	2.21	0.56
2:RF:136:ASN:O	2:RF:136:ASN:ND2	2.37	0.56
2:RJ:136:ASN:ND2	2:RJ:136:ASN:O	2.38	0.56
2:RS:19:ASN:OD1	2:RS:19:ASN:N	2.38	0.56
2:Ro:23:VAL:HG11	2:Ro:39:THR:HG21	1.88	0.56
1:K2:379:ALA:HA	1:K2:411:ARG:HB2	1.88	0.56
1:K6:29:LEU:O	1:K6:80:VAL:HA	2.05	0.56
1:K8:41:ILE:HD11	1:K8:361:PHE:HB3	1.88	0.56
1:L0:33:PHE:HA	1:L0:61:THR:HG23	1.87	0.56
1:L0:131:ILE:HA	1:L0:143:ILE:HG22	1.88	0.56
1:L3:400:ARG:HD3	1:L3:403:CYS:SG	2.45	0.56
1:L8:46:ASN:OD1	1:L8:47:GLU:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lb:487:THR:HG21	1:Lb:559:MET:HE3	1.88	0.56
1:Ld:40:GLN:H	1:Ld:81:VAL:HG23	1.71	0.56
1:M0:32:LYS:HZ1	1:M0:60:GLU:HB3	1.71	0.56
1:M4:375:ALA:HB1	1:M4:390:GLN:HG2	1.88	0.56
1:M8:379:ALA:HA	1:M8:411:ARG:HB2	1.87	0.56
1:MR:412:GLU:HA	1:MR:415:VAL:HG12	1.87	0.56
1:MW:57:PRO:HB3	1:MW:62:ALA:HA	1.87	0.56
1:Ma:119:LYS:NZ	1:Ma:124:ASP:OD1	2.36	0.56
1:Me:563:ASN:OD1	1:Me:591:TYR:OH	2.13	0.56
1:NV:490:SER:O	1:NV:496:ARG:NH1	2.38	0.56
1:NW:302:LYS:NZ	1:NW:306:ASP:OD1	2.30	0.56
1:Nd:427:VAL:HG13	1:Nd:520:GLU:HG3	1.88	0.56
1:Nh:51:VAL:HG22	1:Nh:65:PHE:HZ	1.70	0.56
1:Nj:101:TYR:OH	1:Nj:216:LYS:O	2.23	0.56
1:Nv:228:GLY:HA2	1:Nv:345:SER:HB3	1.86	0.56
1:Nw:100:GLU:HB3	1:Nw:188:ILE:HD11	1.87	0.56
1:Nw:246:LYS:HB2	1:Nw:250:ALA:HB2	1.86	0.56
1:K1:199:GLU:HB2	1:Nz:467:TRP:CZ3	2.40	0.56
1:K6:220:PRO:HG2	1:K6:338:LEU:HD11	1.87	0.56
1:K9:57:PRO:HG3	1:K9:65:PHE:CD1	2.41	0.56
1:K9:147:THR:O	1:K9:147:THR:OG1	2.22	0.56
1:K9:414:VAL:HG23	1:K9:422:ALA:HB1	1.88	0.56
1:L2:406:LEU:HD13	1:L2:475:ALA:HB2	1.86	0.56
1:LQ:455:LYS:HD3	1:LQ:502:VAL:HG22	1.87	0.56
1:LX:432:ALA:HB2	1:LX:440:ASN:HD22	1.71	0.56
1:LX:486:GLN:NE2	2:Rn:11:GLU:OE1	2.36	0.56
1:LZ:391:LYS:NZ	1:LZ:440:ASN:O	2.38	0.56
1:La:131:ILE:HD13	1:La:140:ILE:HG21	1.88	0.56
1:La:612:ASN:HB3	1:La:624:VAL:HG23	1.87	0.56
1:Lb:20:VAL:HG21	1:Lb:46:ASN:HD21	1.70	0.56
1:Lz:378:CYS:SG	1:Lz:454:TYR:OH	2.50	0.56
1:M0:119:LYS:NZ	1:M0:124:ASP:OD1	2.39	0.56
1:M4:438:ASP:N	1:M4:438:ASP:OD1	2.37	0.56
1:M5:514:ARG:NH1	1:M6:366:GLU:OE1	2.35	0.56
1:M7:83:ALA:HB2	1:M7:358:ALA:HB2	1.88	0.56
1:MR:378:CYS:HB2	1:MR:410:PRO:HA	1.86	0.56
1:MR:654:LEU:HD13	1:MS:605:ARG:HD3	1.88	0.56
1:MU:413:THR:HG23	1:MU:425:ASN:HB3	1.86	0.56
1:MV:561:LYS:HD2	1:Mz:10:LEU:HD13	1.87	0.56
1:MX:642:PHE:CE1	1:MY:564:ILE:HD11	2.39	0.56
1:MZ:34:GLN:OE1	1:MZ:58:THR:OG1	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ma:29:LEU:O	1:Ma:80:VAL:HA	2.05	0.56
1:Mc:480:ARG:C	1:Mc:482:ASP:H	2.14	0.56
1:NW:211:GLN:OE1	1:NW:328:GLN:NE2	2.38	0.56
1:Nb:57:PRO:HG3	1:Nb:65:PHE:CD1	2.41	0.56
1:Nb:66:MET:HB3	1:Nb:468:VAL:HG11	1.88	0.56
1:Nc:159:GLU:HB3	1:Nc:163:LEU:HA	1.88	0.56
1:Ne:454:TYR:HB3	1:Ne:467:TRP:CD1	2.41	0.56
1:Ne:467:TRP:HZ3	1:Nf:199:GLU:HB2	1.71	0.56
1:Ne:642:PHE:CE2	1:Nf:564:ILE:HD11	2.39	0.56
1:Nf:26:THR:HA	1:Nf:77:ASP:O	2.05	0.56
1:Nh:121:VAL:HG13	1:Nh:166:ASN:HB3	1.86	0.56
1:Ni:487:THR:HG21	1:Ni:559:MET:HE3	1.86	0.56
1:Nv:432:ALA:HB2	1:Nv:440:ASN:HD22	1.69	0.56
2:OC:16:ALA:HB3	2:Oh:151:GLN:HB2	1.87	0.56
2:OI:56:ARG:HB3	2:OI:56:ARG:NH1	2.20	0.56
2:RT:76:ASP:OD1	2:RT:80:ASP:N	2.36	0.56
2:Rs:91:ILE:HG22	2:Rs:107:TYR:HB3	1.87	0.56
1:K2:44:VAL:HG11	1:K2:50:LEU:HB2	1.88	0.56
1:K3:103:ILE:HD13	1:K3:182:ILE:HG22	1.87	0.56
1:K7:66:MET:HG2	1:K7:468:VAL:HG21	1.87	0.56
1:L0:414:VAL:HG23	1:L0:422:ALA:HB1	1.86	0.56
1:L1:511:GLN:OE1	1:MV:5:SER:OG	2.23	0.56
1:L8:417:ILE:H	1:L8:417:ILE:HD13	1.71	0.56
1:LQ:549:ASP:OD2	1:Lv:271:TYR:OH	2.17	0.56
1:LW:205:MET:O	1:LW:211:GLN:NE2	2.37	0.56
1:LX:647:THR:O	1:LY:630:GLN:NE2	2.39	0.56
1:Lb:378:CYS:SG	1:Lb:379:ALA:N	2.78	0.56
1:Lc:394:VAL:HG11	1:Lc:443:ILE:HD12	1.86	0.56
1:Le:29:LEU:O	1:Le:80:VAL:HA	2.05	0.56
1:Lx:29:LEU:O	1:Lx:80:VAL:HA	2.05	0.56
1:M2:432:ALA:HB2	1:M2:440:ASN:HD22	1.70	0.56
1:M6:11:LYS:HG2	1:M6:13:THR:HG23	1.87	0.56
1:M8:90:LYS:NZ	1:M8:190:ASP:OD1	2.39	0.56
1:M9:406:LEU:HD13	1:M9:475:ALA:HB2	1.86	0.56
1:MS:467:TRP:CZ3	1:MU:199:GLU:HB2	2.41	0.56
1:MY:510:ARG:HG2	1:MY:511:GLN:H	1.70	0.56
1:Mc:394:VAL:HG11	1:Mc:443:ILE:HD12	1.86	0.56
1:Mv:46:ASN:OD1	1:Mv:47:GLU:N	2.39	0.56
1:Mx:487:THR:HG21	1:Mx:559:MET:HE3	1.88	0.56
1:Mz:462:ASN:HB2	1:Mz:464:VAL:HG22	1.88	0.56
1:NV:642:PHE:CE2	1:NW:561:LYS:HG2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ni:379:ALA:HB2	1:Ni:454:TYR:HE2	1.70	0.56
1:Nw:120:TYR:HE1	1:Nw:166:ASN:HD22	1.54	0.56
1:Nz:383:LEU:HD22	1:Nz:439:ASN:HB3	1.87	0.56
2:OK:83:GLN:HA	2:OK:86:VAL:HG22	1.88	0.56
2:OO:56:ARG:NH2	2:PO:96:GLY:O	2.35	0.56
2:Os:54:MET:HE3	2:PO:20:LEU:HA	1.87	0.56
2:PK:39:THR:HG22	2:PK:71:VAL:HG22	1.87	0.56
2:PM:91:ILE:HG22	2:PM:107:TYR:HB3	1.88	0.56
2:PM:150:ILE:HG12	2:PM:151:GLN:N	2.21	0.56
2:RO:67:ASP:OD1	2:RO:67:ASP:N	2.39	0.56
1:K0:26:THR:HA	1:K0:77:ASP:O	2.06	0.56
1:K5:228:GLY:HA2	1:K5:345:SER:HB3	1.87	0.56
1:K6:458:TYR:HE1	1:K7:317:LYS:HZ1	1.53	0.56
1:K6:560:LEU:O	1:K6:564:ILE:HG12	2.05	0.56
1:K8:11:LYS:HG2	1:K8:13:THR:HG23	1.87	0.56
1:L2:375:ALA:HB1	1:L2:390:GLN:HG2	1.87	0.56
1:L6:134:VAL:HG12	1:L6:140:ILE:HA	1.87	0.56
1:L7:107:GLY:HA3	1:L7:110:TYR:CE2	2.41	0.56
1:L8:368:VAL:O	1:L8:400:ARG:NH2	2.39	0.56
1:LS:561:LYS:NZ	1:Lw:12:GLU:OE2	2.23	0.56
1:LU:427:VAL:HG13	1:LU:520:GLU:HG3	1.87	0.56
1:LZ:400:ARG:HD3	1:LZ:403:CYS:SG	2.46	0.56
1:La:107:GLY:HA3	1:La:110:TYR:CE2	2.41	0.56
1:Lx:639:THR:HB	1:Lz:624:VAL:HG12	1.86	0.56
1:M7:406:LEU:HD13	1:M7:475:ALA:HB2	1.87	0.56
1:MU:378:CYS:HB3	1:MU:390:GLN:HE21	1.71	0.56
1:Mc:246:LYS:HB2	1:Mc:250:ALA:HB2	1.87	0.56
1:Mx:494:TYR:CZ	1:Mz:569:LYS:HD3	2.41	0.56
1:NX:57:PRO:HG3	1:NX:65:PHE:CD2	2.40	0.56
1:Na:417:ILE:HD13	1:Na:417:ILE:H	1.69	0.56
1:Ne:514:ARG:NH1	1:Nf:366:GLU:OE2	2.39	0.56
1:Nf:40:GLN:H	1:Nf:81:VAL:HG23	1.71	0.56
1:Nh:239:VAL:HG23	1:Nh:280:ALA:HB3	1.88	0.56
1:Ni:176:SER:O	1:Ni:176:SER:OG	2.24	0.56
1:Nj:563:ASN:OD1	1:Nj:591:TYR:OH	2.12	0.56
1:Nw:198:ILE:HG23	1:Nw:324:PHE:HE2	1.71	0.56
1:Nx:20:VAL:HG21	1:Nx:46:ASN:HD21	1.70	0.56
2:OJ:19:ASN:OD1	2:OJ:19:ASN:N	2.38	0.56
2:Oi:41:LEU:HD12	2:Oi:127:ILE:HD13	1.87	0.56
2:On:55:ASN:HA	2:PJ:19:ASN:HD22	1.71	0.56
2:Os:25:ILE:O	2:Os:27:TYR:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PE:49:ILE:O	2:PE:49:ILE:HG12	2.05	0.56
2:PF:56:ARG:HB3	2:PF:56:ARG:HH11	1.69	0.56
2:PJ:17:ARG:HG3	2:PJ:20:LEU:HD12	1.87	0.56
2:Pl:82:ARG:NH1	2:Pl:138:GLY:HA2	2.20	0.56
2:Pq:28:LEU:HD22	2:Pq:84:LYS:HB3	1.88	0.56
2:Ps:114:ARG:HG2	2:Ps:126:GLU:HG3	1.87	0.56
2:RE:23:VAL:HG11	2:RE:39:THR:HG21	1.87	0.56
2:RK:58:ILE:HD12	2:RL:6:VAL:HG21	1.86	0.56
1:K7:215:LYS:NZ	1:K7:329:ASN:OD1	2.37	0.56
1:L6:406:LEU:HD22	1:L6:474:ILE:HG13	1.87	0.56
1:LR:455:LYS:HD3	1:LR:502:VAL:HG22	1.88	0.56
1:LS:478:CYS:O	1:LS:555:ARG:NH1	2.37	0.56
1:LX:617:VAL:HG22	1:LX:622:GLU:HB2	1.86	0.56
1:Lc:455:LYS:NZ	1:Lc:457:GLN:OE1	2.39	0.56
1:Lv:119:LYS:NZ	1:Lv:124:ASP:OD1	2.39	0.56
1:Lx:154:ALA:HA	1:Lx:157:VAL:HG22	1.88	0.56
1:M0:455:LYS:HB2	1:M0:470:LEU:HD13	1.88	0.56
1:M1:303:ASP:OD1	1:M1:304:ILE:N	2.39	0.56
1:M4:135:ASP:HB3	1:M4:139:LYS:HB2	1.88	0.56
1:M8:400:ARG:HD3	1:M8:403:CYS:SG	2.46	0.56
1:MW:199:GLU:OE2	1:MW:200:ASN:ND2	2.37	0.56
1:Md:57:PRO:HB3	1:Md:62:ALA:HA	1.88	0.56
1:Mv:120:TYR:HE1	1:Mv:166:ASN:HD22	1.54	0.56
1:NV:90:LYS:NZ	1:NV:190:ASP:OD1	2.35	0.56
1:NV:117:THR:HG23	1:NV:127:THR:HG22	1.87	0.56
1:NX:237:GLU:OE1	1:NX:284:ARG:NH1	2.28	0.56
1:NX:467:TRP:HZ3	1:NZ:199:GLU:HB2	1.70	0.56
1:NZ:378:CYS:HB2	1:NZ:410:PRO:HA	1.88	0.56
1:Ng:202:GLU:OE1	1:Ng:203:ALA:N	2.39	0.56
1:Ng:494:TYR:CZ	1:Nh:569:LYS:HD3	2.40	0.56
2:OI:151:GLN:NE2	2:Rn:115:GLN:OE1	2.38	0.56
2:OO:120:ALA:HB3	2:OO:121:LYS:HD2	1.87	0.56
2:Om:39:THR:HG22	2:Om:71:VAL:HG22	1.86	0.56
2:Oq:19:ASN:OD1	2:Oq:19:ASN:N	2.39	0.56
2:PM:82:ARG:HH12	2:PM:138:GLY:HA2	1.71	0.56
2:Pj:136:ASN:O	2:Pj:136:ASN:ND2	2.39	0.56
1:K1:135:ASP:HB3	1:K1:139:LYS:HB2	1.88	0.56
1:K1:379:ALA:HA	1:K1:411:ARG:HB2	1.88	0.56
1:K2:235:GLU:OE2	1:K2:261:ARG:NH2	2.39	0.56
1:L2:66:MET:HG2	1:L2:468:VAL:HG21	1.88	0.56
1:L3:455:LYS:HG3	1:L3:502:VAL:HG13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:10:LEU:HD13	1:LZ:561:LYS:HD2	1.87	0.56
1:L5:107:GLY:HA3	1:L5:110:TYR:HE2	1.71	0.56
1:L8:104:SER:HG	1:L8:183:THR:HG1	1.40	0.56
1:L8:108:SER:OG	1:L8:137:ASP:OD2	2.23	0.56
1:LS:467:TRP:CZ3	1:LU:199:GLU:HB2	2.41	0.56
1:LV:485:SER:OG	1:LV:486:GLN:N	2.37	0.56
1:LW:642:PHE:HB3	1:LX:557:PHE:HE2	1.71	0.56
1:LY:438:ASP:OD1	1:LY:438:ASP:N	2.38	0.56
1:Lc:417:ILE:HG22	1:Lc:418:PRO:HD2	1.86	0.56
1:Lv:455:LYS:HD2	1:Lv:502:VAL:HG22	1.88	0.56
1:Lx:418:PRO:HD2	1:Lx:421:ARG:HH12	1.70	0.56
1:Lz:209:ASP:OD1	1:Lz:209:ASP:N	2.37	0.56
1:M0:110:TYR:CE1	1:M0:171:ILE:HD12	2.41	0.56
1:M0:432:ALA:HB2	1:M0:440:ASN:HD22	1.71	0.56
1:M0:569:LYS:HA	1:Ni:8:ILE:HD11	1.88	0.56
1:M3:560:LEU:O	1:M3:564:ILE:HG12	2.06	0.56
1:MU:414:VAL:HG23	1:MU:422:ALA:HB1	1.87	0.56
1:MV:351:THR:HG23	1:MV:354:ASP:H	1.71	0.56
1:Ma:371:GLN:OE1	1:Ma:562:THR:OG1	2.20	0.56
1:Mb:46:ASN:OD1	1:Mb:47:GLU:N	2.39	0.56
1:NW:39:PHE:HE1	1:NW:86:ARG:HD2	1.71	0.56
1:NX:485:SER:OG	1:NX:486:GLN:N	2.37	0.56
1:NX:612:ASN:HB3	1:NX:624:VAL:HG23	1.87	0.56
1:NZ:494:TYR:CE2	1:Na:569:LYS:HD3	2.41	0.56
1:Na:108:SER:OG	1:Na:137:ASP:OD2	2.24	0.56
1:Nb:591:TYR:HD2	1:Nb:592:LEU:HD12	1.69	0.56
1:Nd:57:PRO:HB3	1:Nd:62:ALA:HA	1.88	0.56
1:Ne:143:ILE:HD12	1:Ne:145:ILE:HD11	1.88	0.56
1:Ng:400:ARG:NH1	1:Ng:402:ASP:OD1	2.39	0.56
1:Nh:47:GLU:OE1	1:Nh:461:TYR:OH	2.24	0.56
1:Nv:32:LYS:HE2	1:Nv:350:VAL:HB	1.88	0.56
1:Nz:360:ASP:OD1	1:Nz:392:HIS:NE2	2.36	0.56
1:Nz:406:LEU:HD22	1:Nz:474:ILE:HG13	1.87	0.56
2:OD:82:ARG:HH12	2:OD:138:GLY:HA2	1.71	0.56
2:OF:113:VAL:HG13	2:OF:127:ILE:HG12	1.87	0.56
2:OJ:68:ASP:OD1	2:Ro:48:LYS:NZ	2.39	0.56
2:Om:41:LEU:HG	2:Om:127:ILE:HD13	1.88	0.56
2:RF:114:ARG:HG2	2:RF:126:GLU:HG3	1.88	0.56
2:RR:114:ARG:HG2	2:RR:126:GLU:HG3	1.87	0.56
2:Rm:39:THR:HG22	2:Rm:71:VAL:HG22	1.88	0.56
2:Rp:136:ASN:O	2:Rp:136:ASN:ND2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K0:351:THR:HG23	1:K0:354:ASP:H	1.72	0.55
1:K9:455:LYS:HD2	1:K9:502:VAL:HG22	1.88	0.55
1:L3:451:ASP:HB2	1:L3:474:ILE:HD13	1.87	0.55
1:L8:406:LEU:HD13	1:L8:475:ALA:HB2	1.88	0.55
1:L8:514:ARG:NH1	1:L9:366:GLU:OE2	2.38	0.55
1:LV:29:LEU:O	1:LV:80:VAL:HA	2.04	0.55
1:LZ:101:TYR:O	1:LZ:216:LYS:NZ	2.33	0.55
1:Lb:40:GLN:H	1:Lb:81:VAL:HG23	1.71	0.55
1:Le:456:TYR:HB3	1:Le:503:ILE:HG23	1.87	0.55
1:M3:427:VAL:O	1:M3:431:THR:OG1	2.24	0.55
1:MQ:373:PHE:HB2	1:MQ:405:VAL:HG22	1.89	0.55
1:MR:199:GLU:OE2	1:MR:200:ASN:ND2	2.29	0.55
1:MS:281:ILE:HG13	1:MS:295:LEU:HD12	1.88	0.55
1:MU:510:ARG:HG2	1:MU:511:GLN:H	1.71	0.55
1:MV:494:TYR:HE2	1:MV:528:THR:HG21	1.71	0.55
1:MW:29:LEU:O	1:MW:80:VAL:HA	2.06	0.55
1:Mb:133:GLU:OE1	1:Mb:142:LYS:NZ	2.34	0.55
1:Mv:116:ILE:HD11	1:Mv:131:ILE:HG13	1.87	0.55
1:Mz:32:LYS:HZ2	1:Mz:64:TYR:HE2	1.53	0.55
1:Na:604:TYR:HA	1:Na:628:TYR:O	2.06	0.55
1:Ng:291:GLN:HE22	1:Ng:320:SER:HB2	1.71	0.55
1:Nh:378:CYS:HB2	1:Nh:410:PRO:HA	1.87	0.55
1:Nj:256:PRO:HG2	1:Nj:339:THR:H	1.70	0.55
2:Ok:118:ARG:HG3	2:PE:101:GLY:HA3	1.87	0.55
2:Op:58:ILE:HD12	2:Oq:6:VAL:HG21	1.87	0.55
2:Pl:54:MET:HE2	2:Pm:1:MET:HE1	1.86	0.55
2:Pp:119:ASP:OD1	2:Pp:120:ALA:N	2.40	0.55
2:RE:37:LYS:NZ	2:RE:152:THR:OG1	2.35	0.55
2:RR:23:VAL:HG11	2:RR:39:THR:HG21	1.87	0.55
1:K6:131:ILE:HD13	1:K6:140:ILE:HG21	1.86	0.55
1:K7:135:ASP:HB3	1:K7:139:LYS:HB2	1.87	0.55
1:L3:271:TYR:OH	1:LX:549:ASP:OD2	2.17	0.55
1:L7:70:ASN:OD1	1:L7:457:GLN:NE2	2.40	0.55
1:L7:392:HIS:O	1:L7:395:SER:OG	2.20	0.55
1:L9:455:LYS:HD2	1:L9:502:VAL:HG22	1.89	0.55
1:LQ:455:LYS:NZ	1:LQ:473:ASP:OD1	2.39	0.55
1:LZ:549:ASP:O	1:LZ:550:ARG:NE	2.38	0.55
1:Lc:246:LYS:HB2	1:Lc:250:ALA:HB2	1.88	0.55
1:Lv:92:SER:OG	1:Lv:232:ASP:OD1	2.24	0.55
1:Lw:459:ASP:OD2	1:Lw:466:ARG:NH1	2.39	0.55
1:M2:486:GLN:NE2	2:PH:11:GLU:OE1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M3:332:GLU:OE1	1:M3:332:GLU:N	2.35	0.55
1:M5:57:PRO:HG3	1:M5:65:PHE:CD1	2.42	0.55
1:MS:645:THR:OG1	1:MU:629:ILE:O	2.24	0.55
1:MU:66:MET:HG2	1:MU:468:VAL:HG21	1.87	0.55
1:MW:400:ARG:NH1	1:MW:402:ASP:OD1	2.39	0.55
1:Mb:41:ILE:HD11	1:Mb:361:PHE:HB3	1.89	0.55
1:Mb:70:ASN:ND2	1:Mb:457:GLN:OE1	2.39	0.55
1:Me:32:LYS:NZ	1:Me:60:GLU:OE2	2.34	0.55
1:NX:108:SER:OG	1:NX:137:ASP:OD2	2.25	0.55
1:Nv:102:THR:O	1:Nv:183:THR:N	2.29	0.55
2:Om:131:GLY:O	2:Om:159:LEU:HA	2.06	0.55
2:PD:140:LEU:HD13	2:PD:153:PHE:HB3	1.88	0.55
2:Pq:114:ARG:HG2	2:Pq:126:GLU:HG3	1.88	0.55
2:Pr:19:ASN:OD1	2:Pr:19:ASN:N	2.33	0.55
1:K2:256:PRO:HG2	1:K2:339:THR:H	1.70	0.55
1:K8:406:LEU:HD13	1:K8:475:ALA:HB2	1.88	0.55
1:L1:119:LYS:HE3	1:L1:122:SER:HA	1.88	0.55
1:L3:561:LYS:HD2	1:MW:10:LEU:HD13	1.87	0.55
1:L6:235:GLU:OE2	1:L6:261:ARG:NH2	2.39	0.55
1:L8:33:PHE:HA	1:L8:61:THR:HG23	1.87	0.55
1:L8:647:THR:O	1:L9:630:GLN:NE2	2.40	0.55
1:L9:417:ILE:HD13	1:L9:417:ILE:H	1.72	0.55
1:LR:480:ARG:C	1:LR:482:ASP:H	2.15	0.55
1:LW:394:VAL:HG11	1:LW:443:ILE:HD12	1.87	0.55
1:La:455:LYS:HD2	1:La:502:VAL:HG22	1.88	0.55
1:M3:438:ASP:OD1	1:M3:438:ASP:N	2.36	0.55
1:M5:417:ILE:HD13	1:M5:417:ILE:H	1.72	0.55
1:M5:456:TYR:HB3	1:M5:503:ILE:HG23	1.89	0.55
1:M6:10:LEU:HD22	1:Mb:561:LYS:HG2	1.89	0.55
1:M7:617:VAL:HG13	1:M7:622:GLU:HB2	1.88	0.55
1:MR:561:LYS:HB3	1:Mv:10:LEU:HD13	1.88	0.55
1:Mb:256:PRO:HG2	1:Mb:339:THR:H	1.71	0.55
1:Mv:26:THR:HA	1:Mv:77:ASP:O	2.06	0.55
1:Mx:417:ILE:HD13	1:Mx:417:ILE:H	1.70	0.55
1:Mx:561:LYS:NZ	1:NW:12:GLU:OE2	2.26	0.55
1:NZ:90:LYS:NZ	1:NZ:190:ASP:OD1	2.36	0.55
1:Nc:612:ASN:HB3	1:Nc:624:VAL:HG23	1.86	0.55
1:Nf:104:SER:HG	1:Nf:183:THR:HG1	1.39	0.55
1:Nh:430:ARG:NH2	1:Nh:443:ILE:O	2.35	0.55
1:Nx:617:VAL:HG22	1:Nx:622:GLU:HB2	1.88	0.55
1:Nx:639:THR:HB	1:Nz:624:VAL:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Om:43:ALA:O	2:Om:162:TRP:NE1	2.38	0.55
2:Or:63:ASP:OD2	2:PN:147:ASN:ND2	2.39	0.55
2:PD:120:ALA:HB2	2:Ph:99:ILE:O	2.06	0.55
2:Pt:70:THR:HG22	2:Pt:156:THR:HG22	1.87	0.55
2:RT:114:ARG:HG2	2:RT:126:GLU:HG3	1.89	0.55
2:Rm:114:ARG:HG2	2:Rm:126:GLU:HG3	1.89	0.55
1:K0:494:TYR:O	1:K0:498:GLN:NE2	2.39	0.55
1:K5:221:GLY:O	1:K5:325:ALA:HA	2.06	0.55
1:K8:607:VAL:O	1:K8:612:ASN:ND2	2.40	0.55
1:K9:40:GLN:H	1:K9:81:VAL:HG23	1.71	0.55
1:L1:110:TYR:H	1:L1:138:GLY:HA3	1.71	0.55
1:L4:110:TYR:H	1:L4:138:GLY:HA3	1.71	0.55
1:L6:76:ASN:O	1:L6:76:ASN:ND2	2.39	0.55
1:L7:120:TYR:HE1	1:L7:166:ASN:HD22	1.53	0.55
1:L8:66:MET:HG2	1:L8:468:VAL:HG21	1.87	0.55
1:LQ:39:PHE:HE1	1:LQ:86:ARG:HD2	1.71	0.55
1:LQ:427:VAL:O	1:LQ:431:THR:OG1	2.23	0.55
1:LR:57:PRO:HG3	1:LR:65:PHE:CD1	2.42	0.55
1:LW:228:GLY:HA2	1:LW:345:SER:HB3	1.87	0.55
1:LZ:118:VAL:HB	1:LZ:126:GLU:HB3	1.88	0.55
1:Lc:256:PRO:HG2	1:Lc:339:THR:H	1.70	0.55
1:Ld:239:VAL:HG22	1:Ld:280:ALA:HB3	1.89	0.55
1:Le:34:GLN:HE22	1:Le:58:THR:HG23	1.70	0.55
1:Le:166:ASN:N	1:Le:166:ASN:OD1	2.38	0.55
1:Lx:495:ASN:OD1	1:Lx:495:ASN:N	2.38	0.55
1:Lz:468:VAL:HG12	1:Lz:469:PRO:HD2	1.88	0.55
1:Lz:560:LEU:O	1:Lz:564:ILE:HG12	2.07	0.55
1:M1:100:GLU:OE2	1:M1:186:LYS:NZ	2.32	0.55
1:M2:143:ILE:HD12	1:M2:145:ILE:HD11	1.89	0.55
1:MQ:549:ASP:OD2	1:Mv:271:TYR:OH	2.20	0.55
1:MS:654:LEU:HD22	1:MU:605:ARG:HD3	1.87	0.55
1:MW:639:THR:HB	1:MX:624:VAL:HG12	1.87	0.55
1:MY:151:ILE:O	1:MY:155:LYS:HG2	2.07	0.55
1:MY:494:TYR:OH	1:MZ:569:LYS:NZ	2.39	0.55
1:Mb:427:VAL:HG13	1:Mb:520:GLU:HG3	1.88	0.55
1:Md:505:LEU:HD21	1:Md:525:VAL:HG12	1.87	0.55
1:Mv:131:ILE:HD13	1:Mv:140:ILE:HG21	1.89	0.55
1:Mx:514:ARG:NH1	1:Mz:366:GLU:OE2	2.39	0.55
1:NZ:368:VAL:O	1:NZ:400:ARG:NH2	2.40	0.55
1:NZ:511:GLN:OE1	1:Nz:5:SER:OG	2.23	0.55
1:Nc:417:ILE:H	1:Nc:417:ILE:HD13	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nd:121:VAL:HG22	1:Nd:166:ASN:HB2	1.86	0.55
1:Nh:468:VAL:HG12	1:Nh:469:PRO:HD2	1.87	0.55
1:Nj:414:VAL:HG23	1:Nj:422:ALA:HB1	1.88	0.55
1:Nv:394:VAL:HG11	1:Nv:443:ILE:HD12	1.87	0.55
2:OM:48:LYS:NZ	2:Or:68:ASP:OD1	2.31	0.55
2:OM:72:THR:HG22	2:OM:154:GLU:HG3	1.89	0.55
2:PD:136:ASN:ND2	2:PD:136:ASN:O	2.38	0.55
2:PE:113:VAL:HG13	2:PE:127:ILE:HG12	1.89	0.55
2:Pk:42:PRO:HD2	2:Pk:127:ILE:HD11	1.88	0.55
2:Pq:23:VAL:HG11	2:Pq:39:THR:HG21	1.88	0.55
2:Pr:136:ASN:O	2:Pr:136:ASN:ND2	2.40	0.55
2:RO:39:THR:HG22	2:RO:71:VAL:HG13	1.87	0.55
1:K1:642:PHE:CZ	1:K2:564:ILE:HD11	2.41	0.55
1:K2:33:PHE:HA	1:K2:61:THR:HG23	1.88	0.55
1:L4:135:ASP:OD1	1:L4:136:ALA:N	2.39	0.55
1:L6:577:ASN:OD1	1:L6:577:ASN:N	2.33	0.55
1:L9:105:THR:HB	1:L9:181:VAL:H	1.71	0.55
1:L9:365:ARG:HA	1:L9:400:ARG:HH21	1.71	0.55
1:LS:639:THR:HB	1:LU:624:VAL:HG12	1.88	0.55
1:LY:166:ASN:OD1	1:LY:166:ASN:N	2.30	0.55
1:La:202:GLU:OE1	1:La:203:ALA:N	2.40	0.55
1:Le:617:VAL:HG22	1:Le:622:GLU:HB2	1.88	0.55
1:Lz:573:PHE:HD1	1:Lz:573:PHE:H	1.52	0.55
1:M0:104:SER:OG	1:M0:183:THR:OG1	2.24	0.55
1:M2:202:GLU:OE1	1:M2:203:ALA:N	2.40	0.55
1:M4:400:ARG:HB3	1:M4:400:ARG:HH11	1.72	0.55
1:M9:510:ARG:HG2	1:M9:511:GLN:H	1.71	0.55
1:MX:379:ALA:HA	1:MX:411:ARG:HB2	1.87	0.55
1:Mc:221:GLY:O	1:Mc:325:ALA:HA	2.06	0.55
1:Mx:29:LEU:O	1:Mx:80:VAL:HA	2.06	0.55
1:Mz:455:LYS:HE2	1:Mz:502:VAL:HG22	1.88	0.55
1:NW:455:LYS:NZ	1:NW:473:ASP:OD1	2.38	0.55
1:NX:225:LEU:HD13	1:NX:324:PHE:HB2	1.89	0.55
1:Nb:57:PRO:HB3	1:Nb:62:ALA:HA	1.89	0.55
1:Ng:571:ARG:NH2	1:Ng:587:GLU:OE1	2.32	0.55
1:Nx:46:ASN:OD1	1:Nx:47:GLU:N	2.39	0.55
1:Nx:91:ASN:OD1	1:Nx:91:ASN:N	2.37	0.55
2:Ok:24:GLU:OE2	2:Ok:33:THR:OG1	2.24	0.55
2:Ok:63:ASP:OD2	2:PG:147:ASN:ND2	2.39	0.55
2:Or:37:LYS:NZ	2:Or:152:THR:OG1	2.39	0.55
2:PK:132:LEU:HG	2:PK:157:LEU:HD23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pi:54:MET:HE2	2:Pj:1:MET:HE1	1.87	0.55
2:RG:64:ARG:NH1	2:Rl:95:GLN:HG3	2.20	0.55
2:RR:113:VAL:HG13	2:RR:127:ILE:HG12	1.87	0.55
1:K3:566:ARG:HA	1:K3:569:LYS:HD2	1.89	0.55
1:K6:510:ARG:HG2	1:K6:511:GLN:H	1.72	0.55
1:K7:140:ILE:O	1:K7:141:LYS:NZ	2.37	0.55
1:K7:561:LYS:NZ	1:La:12:GLU:OE2	2.32	0.55
1:L0:427:VAL:O	1:L0:431:THR:OG1	2.23	0.55
1:LQ:642:PHE:CE2	1:LR:561:LYS:HG2	2.42	0.55
1:LU:134:VAL:HG12	1:LU:140:ILE:HA	1.88	0.55
1:La:228:GLY:HA2	1:La:345:SER:HB3	1.87	0.55
1:La:237:GLU:OE1	1:La:284:ARG:NH1	2.34	0.55
1:Lv:510:ARG:HG2	1:Lv:511:GLN:H	1.72	0.55
1:Lw:429:TRP:CZ2	1:Lw:441:PHE:HB2	2.42	0.55
1:Lz:349:GLU:OE1	1:Lz:349:GLU:N	2.39	0.55
1:MS:383:LEU:HD22	1:MS:439:ASN:HB2	1.88	0.55
1:MS:417:ILE:H	1:MS:417:ILE:HD13	1.72	0.55
1:MS:468:VAL:HG12	1:MS:469:PRO:HD2	1.88	0.55
1:MX:33:PHE:HA	1:MX:61:THR:HG23	1.89	0.55
1:MZ:488:TRP:HB3	1:MZ:556:LEU:HG	1.89	0.55
1:Ma:41:ILE:HD11	1:Ma:361:PHE:HB3	1.88	0.55
1:Mb:490:SER:O	1:Mb:496:ARG:NH1	2.38	0.55
1:Mc:202:GLU:OE1	1:Mc:203:ALA:N	2.37	0.55
1:Mc:481:THR:HG23	1:Mc:496:ARG:HD2	1.89	0.55
1:Me:39:PHE:HB3	1:Me:361:PHE:CE2	2.42	0.55
1:NX:378:CYS:SG	1:NX:454:TYR:OH	2.52	0.55
1:NX:467:TRP:CZ3	1:NZ:199:GLU:HB2	2.41	0.55
1:Nc:251:LEU:HB3	1:Nc:260:THR:HB	1.89	0.55
1:Nh:209:ASP:OD1	1:Nh:209:ASP:N	2.36	0.55
1:Nh:403:CYS:O	1:Nh:558:ASN:ND2	2.34	0.55
2:Oj:82:ARG:NH1	2:Oj:138:GLY:HA2	2.22	0.55
2:Ok:57:LYS:HE2	2:Pl:147:ASN:HD21	1.71	0.55
2:PH:19:ASN:OD1	2:PH:19:ASN:N	2.29	0.55
2:PM:2:PHE:HD2	2:RL:97:ASN:HB3	1.71	0.55
2:RF:41:LEU:HD23	2:Rk:140:LEU:HD23	1.89	0.55
2:Ro:140:LEU:HD13	2:Ro:153:PHE:HB3	1.89	0.55
1:K4:264:THR:O	1:K4:266:LYS:N	2.40	0.55
1:K8:467:TRP:HZ3	1:K9:199:GLU:HB2	1.71	0.55
1:K9:560:LEU:O	1:K9:564:ILE:HG12	2.06	0.55
1:L1:366:GLU:OE2	1:Lz:514:ARG:NH1	2.40	0.55
1:L3:485:SER:OG	1:L3:486:GLN:N	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L3:485:SER:HB3	1:L3:496:ARG:HD3	1.89	0.55
1:L4:23:SER:OG	1:L4:74:TYR:O	2.24	0.55
1:LQ:406:LEU:HD22	1:LQ:474:ILE:HG13	1.88	0.55
1:LR:378:CYS:HB2	1:LR:410:PRO:HA	1.87	0.55
1:LV:108:SER:OG	1:LV:137:ASP:OD2	2.18	0.55
1:M5:368:VAL:O	1:M5:400:ARG:NH2	2.39	0.55
1:M9:40:GLN:H	1:M9:81:VAL:HG23	1.72	0.55
1:MS:453:ASN:HB2	1:MS:506:ALA:HB3	1.89	0.55
1:MU:467:TRP:CZ3	1:MV:199:GLU:HB2	2.42	0.55
1:MX:480:ARG:O	1:MX:484:VAL:HG12	2.06	0.55
1:Ma:451:ASP:OD1	1:Ma:452:GLY:N	2.39	0.55
1:Mb:494:TYR:CZ	1:Mc:569:LYS:HD3	2.41	0.55
1:Mc:281:ILE:HG13	1:Mc:295:LEU:HD12	1.86	0.55
1:Mc:430:ARG:NH2	1:Mc:443:ILE:O	2.40	0.55
1:Mv:454:TYR:HB3	1:Mv:467:TRP:CD1	2.42	0.55
1:Mw:463:ASP:OD1	1:Mx:317:LYS:NZ	2.30	0.55
1:Mx:645:THR:OG1	1:Mz:629:ILE:O	2.24	0.55
1:NX:166:ASN:N	1:NX:166:ASN:OD1	2.37	0.55
1:NZ:303:ASP:OD1	1:NZ:304:ILE:N	2.40	0.55
1:Na:110:TYR:N	1:Na:138:GLY:HA3	2.22	0.55
1:Nd:379:ALA:HB2	1:Nd:454:TYR:HE2	1.71	0.55
1:Nx:417:ILE:HD13	1:Nx:417:ILE:H	1.70	0.55
1:Nz:40:GLN:H	1:Nz:81:VAL:HG23	1.72	0.55
2:Ph:62:GLY:O	2:Pi:118:ARG:NH2	2.39	0.55
2:Rl:136:ASN:O	2:Rl:136:ASN:ND2	2.40	0.55
2:Rq:17:ARG:HB2	2:Rq:20:LEU:HD12	1.89	0.55
1:K1:438:ASP:OD1	1:K1:438:ASP:N	2.40	0.55
1:K5:272:GLY:O	1:K5:274:GLN:NE2	2.38	0.55
1:LS:143:ILE:HD12	1:LS:145:ILE:HD11	1.87	0.55
1:LY:451:ASP:OD2	1:LY:470:LEU:HB3	2.07	0.55
1:La:560:LEU:O	1:La:564:ILE:HG12	2.07	0.55
1:Lb:135:ASP:OD1	1:Lb:136:ALA:N	2.36	0.55
1:Lc:121:VAL:HG13	1:Lc:166:ASN:HB3	1.88	0.55
1:Lc:406:LEU:HD13	1:Lc:475:ALA:HB2	1.88	0.55
1:Le:202:GLU:OE1	1:Le:203:ALA:N	2.40	0.55
1:M3:108:SER:OG	1:M3:137:ASP:OD2	2.25	0.55
1:M3:575:LEU:HB3	1:M3:577:ASN:HD22	1.71	0.55
1:M5:26:THR:HA	1:M5:77:ASP:O	2.07	0.55
1:M6:524:PRO:HG2	1:M6:536:TYR:HB3	1.88	0.55
1:M6:560:LEU:O	1:M6:564:ILE:HG12	2.05	0.55
1:M8:220:PRO:HG2	1:M8:338:LEU:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M9:478:CYS:O	1:M9:555:ARG:NH1	2.39	0.55
1:M9:486:GLN:NE2	2:PO:11:GLU:OE1	2.39	0.55
1:MS:131:ILE:HA	1:MS:143:ILE:HG22	1.88	0.55
1:MU:440:ASN:HD22	1:MU:442:ASN:HB2	1.72	0.55
1:MV:495:ASN:OD1	1:MV:495:ASN:N	2.30	0.55
1:MZ:412:GLU:OE1	1:MZ:412:GLU:N	2.36	0.55
1:MZ:444:SER:OG	1:MZ:543:SER:OG	2.15	0.55
1:Mc:57:PRO:O	1:Mc:462:ASN:ND2	2.38	0.55
1:Md:246:LYS:HB2	1:Md:250:ALA:HB2	1.88	0.55
1:Me:264:THR:O	1:Me:266:LYS:N	2.40	0.55
1:Mw:104:SER:HB2	1:Mw:181:VAL:HB	1.89	0.55
1:Mx:410:PRO:O	1:Mx:413:THR:HG22	2.07	0.55
1:NV:406:LEU:HD13	1:NV:475:ALA:HB2	1.88	0.55
1:Nf:23:SER:OG	1:Nf:74:TYR:O	2.23	0.55
1:Ng:609:ASP:OD1	1:Ng:611:THR:OG1	2.21	0.55
1:Ni:417:ILE:HD13	1:Ni:417:ILE:H	1.71	0.55
1:Nj:32:LYS:NZ	1:Nj:60:GLU:OE2	2.38	0.55
1:Nx:538:ASP:N	1:Nx:538:ASP:OD1	2.38	0.55
2:OG:14:ASP:OD1	2:OG:17:ARG:NH2	2.34	0.55
2:Os:82:ARG:NH1	2:Os:138:GLY:HA2	2.22	0.55
2:PI:82:ARG:HH12	2:PI:138:GLY:HA2	1.72	0.55
2:Pi:23:VAL:HG11	2:Pi:39:THR:HG21	1.88	0.55
2:Rp:154:GLU:OE1	2:Rp:154:GLU:N	2.39	0.55
1:K1:33:PHE:HA	1:K1:61:THR:HG23	1.89	0.55
1:K2:494:TYR:OH	1:K3:569:LYS:NZ	2.40	0.55
1:K6:284:ARG:HG2	1:K6:289:ILE:HD13	1.89	0.55
1:K7:94:PRO:HD3	1:K7:222:VAL:O	2.07	0.55
1:K8:256:PRO:HG2	1:K8:339:THR:H	1.72	0.55
1:L2:2:THR:OG1	1:L2:3:LEU:N	2.39	0.55
1:L7:368:VAL:O	1:L7:400:ARG:NH2	2.40	0.55
1:LS:23:SER:O	1:LS:76:ASN:HB2	2.07	0.55
1:LS:477:LEU:HD23	1:LS:535:LEU:HD12	1.89	0.55
1:LX:44:VAL:HG11	1:LX:50:LEU:HB2	1.88	0.55
1:LX:505:LEU:HD21	1:LX:525:VAL:HG12	1.89	0.55
1:Lz:46:ASN:OD1	1:Lz:47:GLU:N	2.39	0.55
1:M0:278:GLN:HG2	1:M0:296:SER:HB3	1.89	0.55
1:M4:593:GLN:NE2	2:PJ:4:ASP:OD2	2.40	0.55
1:M8:455:LYS:HG3	1:M8:502:VAL:HG13	1.88	0.55
1:MW:453:ASN:HB2	1:MW:506:ALA:HB3	1.89	0.55
1:MZ:209:ASP:N	1:MZ:209:ASP:OD1	2.37	0.55
1:Mz:378:CYS:SG	1:Mz:379:ALA:N	2.79	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nd:362:PHE:HD1	1:Nd:368:VAL:HG11	1.72	0.55
1:Ni:29:LEU:O	1:Ni:80:VAL:HA	2.07	0.55
1:Nv:617:VAL:HG23	1:Nv:622:GLU:HB2	1.89	0.55
1:Nw:103:ILE:HD13	1:Nw:182:ILE:HG22	1.89	0.55
1:Nw:239:VAL:HG22	1:Nw:280:ALA:HB3	1.88	0.55
1:Nw:571:ARG:NH2	1:Nw:587:GLU:OE1	2.37	0.55
1:Nz:273:PRO:HB3	1:Nz:278:GLN:HB2	1.89	0.55
2:Or:54:MET:O	2:Or:56:ARG:N	2.39	0.55
2:PC:41:LEU:HG	2:PC:127:ILE:HD13	1.89	0.55
2:Ps:131:GLY:O	2:Ps:159:LEU:HA	2.06	0.55
2:RD:64:ARG:NH1	2:RS:95:GLN:HG3	2.22	0.55
2:RD:114:ARG:HG2	2:RD:126:GLU:HG3	1.88	0.55
2:RF:137:VAL:HA	2:RF:155:VAL:HG22	1.88	0.55
1:K1:269:PHE:CE2	1:K1:280:ALA:HB1	2.42	0.55
1:K3:108:SER:OG	1:K3:109:ASN:OD1	2.22	0.55
1:K7:406:LEU:HD13	1:K7:475:ALA:HB2	1.88	0.55
1:L3:3:LEU:HD12	1:LX:637:TYR:HB3	1.89	0.55
1:L7:108:SER:OG	1:L7:137:ASP:OD2	2.24	0.55
1:LU:549:ASP:O	1:LU:550:ARG:NE	2.37	0.55
1:LW:560:LEU:HD21	1:LW:601:ILE:HD11	1.89	0.55
1:La:23:SER:O	1:La:76:ASN:HB2	2.08	0.55
1:Lb:228:GLY:HA2	1:Lb:345:SER:HB3	1.88	0.55
1:Lb:485:SER:OG	1:Lb:486:GLN:N	2.40	0.55
1:Lc:378:CYS:HB2	1:Lc:410:PRO:HA	1.88	0.55
1:Le:441:PHE:CZ	1:Le:443:ILE:HD11	2.42	0.55
1:Lw:104:SER:HB2	1:Lw:181:VAL:HB	1.89	0.55
1:Lz:121:VAL:HG13	1:Lz:166:ASN:HB3	1.89	0.55
1:M1:402:ASP:O	1:M1:558:ASN:ND2	2.40	0.55
1:M1:643:VAL:HG13	1:Na:14:THR:HG22	1.89	0.55
1:M4:450:ILE:HG22	1:M4:541:ALA:HB2	1.89	0.55
1:M4:467:TRP:CZ3	1:M5:199:GLU:HB2	2.42	0.55
1:M5:43:GLN:HE21	1:M5:45:THR:HG22	1.71	0.55
1:M5:281:ILE:HG13	1:M5:295:LEU:HD12	1.89	0.55
1:M7:110:TYR:H	1:M7:138:GLY:HA3	1.72	0.55
1:M8:66:MET:O	1:M8:70:ASN:ND2	2.40	0.55
1:M8:510:ARG:HG2	1:M8:511:GLN:H	1.71	0.55
1:MU:107:GLY:HA3	1:MU:110:TYR:HE2	1.72	0.55
1:MU:220:PRO:HD2	1:MU:338:LEU:HD11	1.88	0.55
1:MY:406:LEU:HD13	1:MY:475:ALA:HB2	1.88	0.55
1:MY:549:ASP:O	1:MY:550:ARG:NE	2.37	0.55
1:Mv:455:LYS:HD3	1:Mv:502:VAL:HG22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mz:383:LEU:HD11	1:Mz:436:TYR:HE2	1.71	0.55
1:NV:406:LEU:HD22	1:NV:474:ILE:HG13	1.89	0.55
1:NV:478:CYS:O	1:NV:555:ARG:NH1	2.40	0.55
1:Na:23:SER:OG	1:Na:74:TYR:O	2.25	0.55
1:Na:450:ILE:HG22	1:Na:541:ALA:HB2	1.89	0.55
1:Na:538:ASP:OD1	1:Na:538:ASP:N	2.40	0.55
1:Nc:135:ASP:N	1:Nc:139:LYS:O	2.33	0.55
1:Nd:406:LEU:HD13	1:Nd:475:ALA:HB2	1.89	0.55
1:Ne:455:LYS:NZ	1:Ne:473:ASP:OD2	2.39	0.55
1:Ng:400:ARG:HB3	1:Ng:400:ARG:HH11	1.72	0.55
1:Ni:40:GLN:H	1:Ni:81:VAL:HG23	1.72	0.55
1:Nw:379:ALA:HA	1:Nw:411:ARG:HB2	1.88	0.55
1:Nx:645:THR:OG1	1:Nz:629:ILE:O	2.23	0.55
2:PD:58:ILE:HD12	2:PE:6:VAL:HG21	1.89	0.55
2:RE:23:VAL:HG13	2:RE:36:CYS:SG	2.47	0.55
2:RO:52:GLY:HA2	2:RO:57:LYS:HB3	1.88	0.55
2:RO:113:VAL:HG13	2:RO:127:ILE:HG12	1.89	0.55
2:Rq:52:GLY:HA2	2:Rq:57:LYS:HB3	1.88	0.55
1:K1:12:GLU:OE2	1:Nb:561:LYS:NZ	2.34	0.54
1:K1:29:LEU:O	1:K1:80:VAL:HA	2.07	0.54
1:K2:272:GLY:O	1:K2:274:GLN:NE2	2.34	0.54
1:K4:116:ILE:HD11	1:K4:131:ILE:HG13	1.87	0.54
1:K8:368:VAL:O	1:K8:400:ARG:NH2	2.40	0.54
1:L0:57:PRO:O	1:L0:462:ASN:ND2	2.36	0.54
1:L1:601:ILE:HG12	1:L1:629:ILE:HD12	1.89	0.54
1:L2:591:TYR:HD2	1:L2:592:LEU:HD12	1.72	0.54
1:L5:394:VAL:HG11	1:L5:443:ILE:HD12	1.89	0.54
1:L6:451:ASP:OD1	1:L6:452:GLY:N	2.40	0.54
1:LU:419:VAL:HG13	1:LU:507:ILE:HB	1.88	0.54
1:LW:571:ARG:NH2	1:LW:587:GLU:OE1	2.22	0.54
1:Ld:378:CYS:HB2	1:Ld:410:PRO:HA	1.88	0.54
1:Le:264:THR:O	1:Le:266:LYS:N	2.40	0.54
1:Lv:655:THR:HB	1:MQ:19:VAL:HG21	1.89	0.54
1:M1:406:LEU:HD22	1:M1:474:ILE:HG13	1.89	0.54
1:M1:453:ASN:HD22	1:M1:453:ASN:N	2.06	0.54
1:M4:202:GLU:OE1	1:M4:203:ALA:N	2.40	0.54
1:M9:57:PRO:HG3	1:M9:65:PHE:CD1	2.41	0.54
1:MR:256:PRO:HG2	1:MR:339:THR:H	1.72	0.54
1:MU:368:VAL:O	1:MU:400:ARG:NH2	2.40	0.54
1:MX:39:PHE:HE1	1:MX:86:ARG:HD2	1.71	0.54
1:MY:455:LYS:HD2	1:MY:502:VAL:HG22	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Me:202:GLU:OE1	1:Me:203:ALA:N	2.40	0.54
1:Me:470:LEU:HD23	1:Me:525:VAL:HG21	1.89	0.54
1:NV:332:GLU:OE1	1:NV:332:GLU:N	2.37	0.54
1:NZ:645:THR:HB	1:NZ:650:ASP:OD1	2.07	0.54
1:Nd:510:ARG:H	1:Nd:513:GLN:HE21	1.55	0.54
1:K5:489:MET:HE1	1:K6:575:LEU:HD13	1.90	0.54
1:K7:47:GLU:OE2	1:K7:73:GLN:NE2	2.40	0.54
1:K7:392:HIS:O	1:K7:395:SER:OG	2.20	0.54
1:K8:135:ASP:OD1	1:K8:136:ALA:N	2.39	0.54
1:K9:114:ASP:N	1:K9:114:ASP:OD1	2.38	0.54
1:LQ:19:VAL:HG21	1:Nv:655:THR:HB	1.88	0.54
1:LR:35:TRP:HB2	1:LR:230:LEU:HD12	1.89	0.54
1:LR:244:TYR:HD1	1:LR:265:ALA:HB1	1.71	0.54
1:LU:451:ASP:OD2	1:LU:470:LEU:HB3	2.06	0.54
1:LV:110:TYR:N	1:LV:138:GLY:HA3	2.21	0.54
1:LX:209:ASP:OD1	1:LX:209:ASP:N	2.38	0.54
1:LX:638:ILE:HG23	1:LY:623:PHE:HD2	1.71	0.54
1:Le:26:THR:HA	1:Le:77:ASP:O	2.07	0.54
1:Lz:100:GLU:OE2	1:Lz:186:LYS:NZ	2.31	0.54
1:M0:459:ASP:OD2	1:M0:466:ARG:NH1	2.40	0.54
1:M1:90:LYS:NZ	1:M1:190:ASP:OD1	2.40	0.54
1:M2:494:TYR:OH	1:M3:569:LYS:NZ	2.38	0.54
1:M8:66:MET:HG2	1:M8:468:VAL:HG21	1.87	0.54
1:M9:159:GLU:OE2	1:M9:166:ASN:ND2	2.36	0.54
1:MQ:394:VAL:HG11	1:MQ:443:ILE:HD12	1.90	0.54
1:MR:110:TYR:H	1:MR:138:GLY:HA3	1.71	0.54
1:Md:159:GLU:OE1	1:Md:167:TRP:NE1	2.35	0.54
1:NX:26:THR:HA	1:NX:77:ASP:O	2.08	0.54
1:Nb:302:LYS:HB3	1:Nb:306:ASP:HA	1.88	0.54
1:Ne:209:ASP:OD1	1:Ne:209:ASP:N	2.38	0.54
1:Nx:427:VAL:O	1:Nx:431:THR:OG1	2.21	0.54
1:Nz:117:THR:HG23	1:Nz:127:THR:HG22	1.90	0.54
2:PM:23:VAL:HG11	2:PM:39:THR:HG21	1.88	0.54
2:PN:2:PHE:HD2	2:RM:97:ASN:HB3	1.71	0.54
2:RH:143:ASP:OD1	2:RH:144:TRP:N	2.40	0.54
2:RK:143:ASP:OD1	2:RK:144:TRP:N	2.39	0.54
1:K1:394:VAL:HG11	1:K1:443:ILE:HD12	1.89	0.54
1:K8:3:LEU:HD11	1:K8:9:GLU:HB2	1.88	0.54
1:LS:617:VAL:HG22	1:LS:622:GLU:HB2	1.90	0.54
1:LW:486:GLN:NE2	2:Rm:11:GLU:OE1	2.41	0.54
1:LX:103:ILE:HD13	1:LX:182:ILE:HG22	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LY:151:ILE:O	1:LY:155:LYS:HG2	2.07	0.54
1:Lc:133:GLU:HB2	1:Lc:142:LYS:HB2	1.89	0.54
1:Le:121:VAL:HG13	1:Le:166:ASN:HA	1.89	0.54
1:Le:269:PHE:HE1	1:Le:282:ILE:HG12	1.72	0.54
1:Lw:239:VAL:HG22	1:Lw:280:ALA:HB3	1.89	0.54
1:MX:36:GLY:O	1:MX:82:ARG:NH1	2.40	0.54
1:Ma:400:ARG:HD3	1:Ma:403:CYS:SG	2.47	0.54
1:Ma:481:THR:HG23	1:Ma:496:ARG:HD3	1.88	0.54
1:Mv:423:VAL:HG13	1:Mv:517:LEU:HD13	1.88	0.54
1:Mv:635:ILE:HD13	1:Mw:623:PHE:HB2	1.90	0.54
1:Nb:26:THR:HA	1:Nb:77:ASP:O	2.08	0.54
1:Ng:444:SER:HB3	1:Ng:543:SER:H	1.72	0.54
1:Ng:526:THR:OG1	1:Ng:527:GLY:N	2.40	0.54
1:Nh:432:ALA:HB2	1:Nh:440:ASN:HD22	1.73	0.54
1:Ni:159:GLU:OE2	1:Ni:166:ASN:ND2	2.32	0.54
1:Ni:166:ASN:OD1	1:Ni:166:ASN:N	2.35	0.54
1:Nw:455:LYS:HD3	1:Nw:502:VAL:HG22	1.90	0.54
1:Nz:46:ASN:OD1	1:Nz:47:GLU:N	2.40	0.54
2:OO:131:GLY:O	2:OO:159:LEU:HA	2.06	0.54
2:Oi:54:MET:HE3	2:PE:20:LEU:HA	1.90	0.54
2:Ok:58:ILE:HD12	2:Ol:6:VAL:HG21	1.89	0.54
2:On:23:VAL:HG22	2:On:36:CYS:SG	2.48	0.54
2:PK:73:VAL:HG12	2:PK:74:MET:O	2.07	0.54
2:Pj:31:ASN:O	2:Pj:35:GLN:HG3	2.06	0.54
2:Pk:120:ALA:HB3	2:Pk:121:LYS:HD2	1.90	0.54
2:Rt:42:PRO:HD2	2:Rt:127:ILE:HD11	1.89	0.54
1:K1:239:VAL:HG22	1:K1:280:ALA:HB3	1.90	0.54
1:K2:11:LYS:HE3	1:K2:13:THR:HG21	1.89	0.54
1:K2:29:LEU:O	1:K2:80:VAL:HA	2.07	0.54
1:K4:140:ILE:O	1:K4:141:LYS:NZ	2.35	0.54
1:L6:271:TYR:OH	1:La:549:ASP:OD2	2.16	0.54
1:L6:284:ARG:HG2	1:L6:289:ILE:HD13	1.88	0.54
1:LR:378:CYS:SG	1:LR:454:TYR:OH	2.54	0.54
1:LW:642:PHE:HE1	1:LX:564:ILE:HD11	1.72	0.54
1:LY:222:VAL:HG13	1:LY:325:ALA:HB2	1.88	0.54
1:La:157:VAL:HG23	1:La:159:GLU:HG2	1.89	0.54
1:Lv:246:LYS:HB2	1:Lv:250:ALA:HB2	1.90	0.54
1:Lx:107:GLY:HA3	1:Lx:110:TYR:CE2	2.43	0.54
1:M0:57:PRO:HA	1:M0:61:THR:HB	1.88	0.54
1:M1:654:LEU:HD13	1:M2:605:ARG:HD3	1.89	0.54
1:M3:94:PRO:HD3	1:M3:222:VAL:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M8:607:VAL:O	1:M8:612:ASN:ND2	2.40	0.54
1:MX:66:MET:HG2	1:MX:468:VAL:HG21	1.90	0.54
1:MZ:96:ALA:HA	1:MZ:188:ILE:HG22	1.89	0.54
1:Md:451:ASP:OD2	1:Md:470:LEU:HB3	2.07	0.54
1:Mv:143:ILE:HD12	1:Mv:145:ILE:HD11	1.88	0.54
1:Mz:571:ARG:NH2	1:Mz:587:GLU:OE1	2.29	0.54
1:NZ:312:ASP:N	1:NZ:312:ASP:OD1	2.40	0.54
1:Nd:451:ASP:OD2	1:Nd:470:LEU:HB3	2.07	0.54
1:Ne:143:ILE:HD13	1:Ne:182:ILE:HD13	1.88	0.54
1:Ne:598:LEU:HD21	2:Pp:7:THR:HG22	1.89	0.54
1:Nf:151:ILE:HG22	1:Nf:187:ILE:HG13	1.89	0.54
1:Ng:29:LEU:O	1:Ng:80:VAL:HA	2.07	0.54
1:Nh:26:THR:HA	1:Nh:77:ASP:O	2.07	0.54
1:Nh:440:ASN:N	1:Nh:440:ASN:OD1	2.37	0.54
1:Nw:119:LYS:NZ	1:Nw:124:ASP:OD1	2.40	0.54
1:Nz:26:THR:HA	1:Nz:77:ASP:O	2.07	0.54
2:OG:136:ASN:O	2:OG:136:ASN:ND2	2.38	0.54
2:Oh:56:ARG:HB3	2:Oh:56:ARG:NH1	2.23	0.54
2:Oi:23:VAL:HG13	2:Oi:36:CYS:SG	2.48	0.54
2:Oj:46:VAL:HG22	2:Oj:64:ARG:HB3	1.89	0.54
2:PG:56:ARG:NH2	2:RG:96:GLY:O	2.40	0.54
2:Pm:56:ARG:NH2	2:Rm:96:GLY:O	2.30	0.54
2:RD:143:ASP:OD1	2:RD:144:TRP:N	2.40	0.54
1:K1:2:THR:OG1	1:K1:3:LEU:N	2.35	0.54
1:K8:57:PRO:HG3	1:K8:65:PHE:CD1	2.42	0.54
1:L0:2:THR:OG1	1:L0:3:LEU:N	2.25	0.54
1:LQ:526:THR:OG1	1:LQ:527:GLY:N	2.39	0.54
1:LR:561:LYS:NZ	1:Lv:12:GLU:OE2	2.28	0.54
1:LS:108:SER:OG	1:LS:109:ASN:OD1	2.21	0.54
1:LV:119:LYS:NZ	1:LV:124:ASP:OD1	2.41	0.54
1:LW:455:LYS:NZ	1:LW:473:ASP:OD2	2.31	0.54
1:LZ:646:ALA:O	1:LZ:647:THR:OG1	2.24	0.54
1:Lc:635:ILE:HD13	1:Ld:623:PHE:HB2	1.88	0.54
1:Le:163:LEU:HD11	1:Le:187:ILE:HG12	1.89	0.54
1:M1:400:ARG:HD3	1:M1:403:CYS:SG	2.46	0.54
1:M3:510:ARG:HG2	1:M3:511:GLN:H	1.72	0.54
1:M5:239:VAL:HG22	1:M5:280:ALA:HB3	1.89	0.54
1:M8:135:ASP:N	1:M8:139:LYS:O	2.41	0.54
1:MW:411:ARG:O	1:MW:415:VAL:HB	2.08	0.54
1:MZ:225:LEU:HD13	1:MZ:324:PHE:HB2	1.88	0.54
1:MZ:566:ARG:HA	1:MZ:569:LYS:HD2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Md:278:GLN:HG2	1:Md:296:SER:HB3	1.90	0.54
1:Me:414:VAL:HG23	1:Me:422:ALA:HB1	1.89	0.54
1:NZ:427:VAL:HG13	1:NZ:520:GLU:HG3	1.89	0.54
1:NZ:467:TRP:HZ3	1:Na:199:GLU:HB2	1.72	0.54
1:Nc:379:ALA:HA	1:Nc:411:ARG:HB2	1.89	0.54
1:Nx:480:ARG:O	1:Nx:484:VAL:HG12	2.07	0.54
2:OD:136:ASN:O	2:OD:136:ASN:ND2	2.40	0.54
2:OJ:77:GLU:OE2	2:Ro:118:ARG:N	2.40	0.54
2:OJ:107:TYR:O	2:OJ:133:TRP:HB3	2.07	0.54
2:OL:162:TRP:O	2:Oq:95:GLN:NE2	2.40	0.54
2:Pn:140:LEU:HD13	2:Pn:153:PHE:HB3	1.88	0.54
2:RO:140:LEU:HD13	2:RO:153:PHE:HB3	1.88	0.54
1:K1:560:LEU:HD21	1:K1:601:ILE:HD11	1.90	0.54
1:K2:617:VAL:HG22	1:K2:622:GLU:HB2	1.89	0.54
1:K3:365:ARG:HA	1:K3:400:ARG:NH2	2.21	0.54
1:K5:91:ASN:OD1	1:K5:91:ASN:N	2.40	0.54
1:L0:74:TYR:OH	1:L0:500:LEU:N	2.31	0.54
1:L6:36:GLY:O	1:L6:82:ARG:NH1	2.40	0.54
1:L9:110:TYR:CE1	1:L9:171:ILE:HD12	2.43	0.54
1:L9:273:PRO:HB3	1:L9:278:GLN:HB2	1.90	0.54
1:LV:459:ASP:OD2	1:LV:466:ARG:NH1	2.40	0.54
1:La:247:GLY:HA2	1:La:266:LYS:HG3	1.90	0.54
1:La:462:ASN:HB2	1:La:464:VAL:HG22	1.90	0.54
1:M0:110:TYR:H	1:M0:138:GLY:CA	2.21	0.54
1:M4:12:GLU:OE2	1:MZ:561:LYS:NZ	2.32	0.54
1:M4:49:ASP:O	1:M4:53:THR:OG1	2.26	0.54
1:M7:153:LYS:HB3	1:M7:167:TRP:HH2	1.73	0.54
1:MS:28:ALA:HB2	1:MS:370:VAL:HG21	1.89	0.54
1:MS:451:ASP:OD2	1:MS:470:LEU:HB3	2.06	0.54
1:MU:256:PRO:HG2	1:MU:339:THR:H	1.71	0.54
1:MY:82:ARG:NH2	1:MY:227:PRO:O	2.37	0.54
1:Mw:455:LYS:HD2	1:Mw:502:VAL:HG22	1.88	0.54
1:NV:159:GLU:HB3	1:NV:163:LEU:HA	1.88	0.54
1:NX:406:LEU:HD13	1:NX:475:ALA:HB2	1.90	0.54
1:Nb:453:ASN:HB2	1:Nb:506:ALA:HB3	1.89	0.54
1:Ne:427:VAL:HG13	1:Ne:520:GLU:HG3	1.89	0.54
1:Nf:400:ARG:NH1	1:Nf:402:ASP:OD1	2.40	0.54
1:Ng:31:GLY:HA3	1:Ng:64:TYR:CD2	2.41	0.54
1:Ni:239:VAL:HG22	1:Ni:280:ALA:HB3	1.89	0.54
1:Nv:454:TYR:HB3	1:Nv:467:TRP:CD1	2.42	0.54
2:OG:75:ASN:ND2	2:OG:151:GLN:OE1	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OH:97:ASN:HB3	2:RI:2:PHE:HD2	1.73	0.54
2:Oi:103:LYS:N	2:Oi:106:GLU:OE2	2.39	0.54
2:Ok:54:MET:SD	2:Ol:1:MET:HE1	2.47	0.54
2:Ot:114:ARG:HG2	2:Ot:126:GLU:HG3	1.88	0.54
2:Ph:125:LYS:NZ	2:RC:83:GLN:OE1	2.38	0.54
2:Rn:39:THR:HG22	2:Rn:71:VAL:HG13	1.88	0.54
2:Rn:56:ARG:HB3	2:Rn:56:ARG:HH11	1.72	0.54
1:K3:400:ARG:HB3	1:K3:400:ARG:HH11	1.73	0.54
1:K8:400:ARG:HD3	1:K8:403:CYS:SG	2.48	0.54
1:L2:228:GLY:HA2	1:L2:345:SER:HB3	1.90	0.54
1:L3:26:THR:HA	1:L3:77:ASP:O	2.07	0.54
1:L8:157:VAL:HG23	1:L8:159:GLU:H	1.73	0.54
1:LQ:451:ASP:OD1	1:LQ:474:ILE:HD13	2.08	0.54
1:M1:642:PHE:CZ	1:M2:564:ILE:HD11	2.42	0.54
1:M3:135:ASP:HB3	1:M3:139:LYS:HB2	1.90	0.54
1:M3:417:ILE:HD13	1:M3:417:ILE:H	1.72	0.54
1:M4:604:TYR:HA	1:M4:628:TYR:O	2.08	0.54
1:M6:455:LYS:HB2	1:M6:470:LEU:HD13	1.89	0.54
1:M8:118:VAL:HG22	1:M8:169:ALA:HB2	1.90	0.54
1:M9:378:CYS:SG	1:M9:454:TYR:OH	2.61	0.54
1:MQ:33:PHE:HA	1:MQ:61:THR:HG23	1.89	0.54
1:MR:456:TYR:HB3	1:MR:503:ILE:HG23	1.90	0.54
1:MS:391:LYS:NZ	1:MS:440:ASN:O	2.40	0.54
1:MU:432:ALA:HB2	1:MU:440:ASN:ND2	2.23	0.54
1:MV:104:SER:HG	1:MV:183:THR:HG1	1.53	0.54
1:MV:450:ILE:HG22	1:MV:541:ALA:HB2	1.90	0.54
1:MZ:490:SER:O	1:MZ:496:ARG:NH1	2.41	0.54
1:Mb:118:VAL:HB	1:Mb:126:GLU:HB3	1.89	0.54
1:Mw:561:LYS:HD2	1:NV:10:LEU:HD13	1.88	0.54
1:Mx:467:TRP:CZ3	1:Mz:199:GLU:HB2	2.42	0.54
1:NX:411:ARG:O	1:NX:415:VAL:HB	2.08	0.54
1:Nd:151:ILE:O	1:Nd:155:LYS:HG2	2.07	0.54
1:Nd:350:VAL:HG13	1:Nd:354:ASP:HB2	1.88	0.54
1:Nh:617:VAL:HG22	1:Nh:622:GLU:HB2	1.89	0.54
1:Nz:383:LEU:HD11	1:Nz:436:TYR:HE1	1.73	0.54
1:Nz:394:VAL:HG11	1:Nz:443:ILE:HD12	1.90	0.54
2:PH:125:LYS:HG2	2:Pm:79:HIS:CG	2.43	0.54
2:PN:41:LEU:HD11	2:PN:113:VAL:HG21	1.88	0.54
2:Pm:104:PRO:HA	2:Pm:107:TYR:CE1	2.43	0.54
2:Po:107:TYR:O	2:Po:133:TRP:HB3	2.08	0.54
2:Pr:23:VAL:HG13	2:Pr:36:CYS:SG	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RR:83:GLN:NE2	2:RR:87:ASP:OD1	2.40	0.54
2:Rr:114:ARG:HG2	2:Rr:126:GLU:HG3	1.89	0.54
1:K0:402:ASP:O	1:K0:558:ASN:ND2	2.41	0.54
1:K3:100:GLU:HB3	1:K3:188:ILE:HD11	1.90	0.54
1:K4:406:LEU:HD13	1:K4:475:ALA:HB2	1.88	0.54
1:K6:494:TYR:O	1:K6:498:GLN:NE2	2.31	0.54
1:K9:549:ASP:O	1:K9:550:ARG:NE	2.36	0.54
1:L0:137:ASP:OD1	1:L0:137:ASP:N	2.41	0.54
1:L6:94:PRO:HD3	1:L6:222:VAL:O	2.08	0.54
1:L8:642:PHE:CE2	1:L9:564:ILE:HD11	2.42	0.54
1:LU:432:ALA:HB2	1:LU:440:ASN:HD22	1.73	0.54
1:LX:467:TRP:HZ3	1:LY:199:GLU:HB2	1.72	0.54
1:LZ:256:PRO:HG2	1:LZ:339:THR:H	1.73	0.54
1:La:36:GLY:O	1:La:82:ARG:NH1	2.41	0.54
1:M0:29:LEU:O	1:M0:80:VAL:HA	2.07	0.54
1:M4:119:LYS:HE3	1:M4:122:SER:HA	1.90	0.54
1:M4:406:LEU:HD22	1:M4:474:ILE:HG13	1.89	0.54
1:M8:480:ARG:C	1:M8:482:ASP:H	2.15	0.54
1:M9:114:ASP:N	1:M9:114:ASP:OD1	2.40	0.54
1:MR:2:THR:OG1	1:MR:3:LEU:N	2.39	0.54
1:MR:511:GLN:OE1	1:Mw:5:SER:OG	2.25	0.54
1:MR:538:ASP:N	1:MR:538:ASP:OD1	2.39	0.54
1:MS:143:ILE:HD12	1:MS:145:ILE:HD11	1.90	0.54
1:MS:312:ASP:OD1	1:MS:327:ALA:N	2.38	0.54
1:MW:235:GLU:OE2	1:MW:261:ARG:NH1	2.38	0.54
1:MY:451:ASP:OD2	1:MY:470:LEU:HB3	2.08	0.54
1:MZ:31:GLY:HA3	1:MZ:64:TYR:CD2	2.43	0.54
1:Ma:239:VAL:HG22	1:Ma:280:ALA:HB3	1.88	0.54
1:Mb:107:GLY:HA3	1:Mb:110:TYR:HE2	1.72	0.54
1:Mv:102:THR:O	1:Mv:183:THR:N	2.27	0.54
1:Mx:380:GLY:H	1:Mx:411:ARG:HD2	1.73	0.54
1:Mz:438:ASP:N	1:Mz:438:ASP:OD1	2.39	0.54
1:NX:34:GLN:O	1:NX:82:ARG:NH2	2.41	0.54
1:NX:228:GLY:HA2	1:NX:345:SER:HB3	1.90	0.54
1:Nd:110:TYR:CE1	1:Nd:177:GLY:HA3	2.43	0.54
1:Nf:451:ASP:OD2	1:Nf:470:LEU:HB3	2.07	0.54
1:Nx:296:SER:O	1:Nx:311:ILE:HG13	2.08	0.54
1:Nx:642:PHE:HE1	1:Nz:564:ILE:HD11	1.72	0.54
2:OL:62:GLY:O	2:OM:118:ARG:NH2	2.40	0.54
2:PF:69:TRP:HB2	2:PF:159:LEU:HD23	1.90	0.54
2:PN:17:ARG:HG3	2:PN:20:LEU:HD12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Po:75:ASN:HB3	2:Po:151:GLN:HB3	1.89	0.54
2:RD:150:ILE:HG12	2:RD:151:GLN:N	2.23	0.54
1:K2:494:TYR:O	1:K2:498:GLN:NE2	2.29	0.54
1:K4:444:SER:OG	1:K4:543:SER:OG	2.14	0.54
1:K7:22:ASN:ND2	1:K7:76:ASN:OD1	2.40	0.54
1:K7:134:VAL:HG12	1:K7:140:ILE:HG22	1.90	0.54
1:K7:246:LYS:HB2	1:K7:250:ALA:HB2	1.89	0.54
1:K7:400:ARG:NH1	1:K7:403:CYS:SG	2.81	0.54
1:K7:514:ARG:NH1	1:K8:366:GLU:OE2	2.41	0.54
1:L7:560:LEU:HD21	1:L7:601:ILE:HD11	1.90	0.54
1:L9:391:LYS:NZ	1:L9:440:ASN:O	2.40	0.54
1:LR:33:PHE:HA	1:LR:61:THR:HG23	1.90	0.54
1:LS:403:CYS:O	1:LS:558:ASN:ND2	2.36	0.54
1:LX:135:ASP:N	1:LX:139:LYS:O	2.41	0.54
1:LX:239:VAL:HG22	1:LX:280:ALA:HB3	1.90	0.54
1:LZ:100:GLU:OE2	1:LZ:186:LYS:NZ	2.28	0.54
1:Lb:368:VAL:O	1:Lb:400:ARG:NH2	2.40	0.54
1:Lc:76:ASN:O	1:Lc:76:ASN:ND2	2.31	0.54
1:Lv:481:THR:HG23	1:Lv:496:ARG:HD3	1.89	0.54
1:M0:163:LEU:HD11	1:M0:187:ILE:HG12	1.89	0.54
1:M0:456:TYR:HB3	1:M0:503:ILE:HG23	1.88	0.54
1:M4:32:LYS:HE2	1:M4:350:VAL:HB	1.90	0.54
1:M8:432:ALA:HB2	1:M8:440:ASN:HD22	1.73	0.54
1:MS:583:SER:HB2	2:PD:26:SER:HB2	1.88	0.54
1:MU:378:CYS:HB3	1:MU:390:GLN:NE2	2.23	0.54
1:Ma:131:ILE:HG12	1:Ma:143:ILE:HG22	1.89	0.54
1:NW:2:THR:OG1	1:NW:3:LEU:N	2.40	0.54
1:NX:360:ASP:HA	1:NX:396:ILE:HD11	1.90	0.54
1:Ng:538:ASP:N	1:Ng:538:ASP:OD1	2.40	0.54
1:Nv:406:LEU:HD13	1:Nv:475:ALA:HB2	1.90	0.54
1:Nw:510:ARG:HG2	1:Nw:511:GLN:H	1.73	0.54
2:OF:115:GLN:OE1	2:Ok:151:GLN:NE2	2.41	0.54
2:OK:52:GLY:HA2	2:OK:57:LYS:HB3	1.90	0.54
2:PK:114:ARG:HG2	2:PK:126:GLU:HG3	1.90	0.54
2:PL:70:THR:HG22	2:PL:156:THR:HB	1.89	0.54
2:PM:136:ASN:O	2:PM:136:ASN:ND2	2.37	0.54
2:PO:23:VAL:HG22	2:PO:36:CYS:SG	2.47	0.54
2:Rn:19:ASN:OD1	2:Rn:19:ASN:N	2.38	0.54
1:K1:254:ILE:HD11	1:K1:261:ARG:HB2	1.89	0.54
1:K3:427:VAL:O	1:K3:431:THR:OG1	2.25	0.54
1:K8:46:ASN:OD1	1:K8:47:GLU:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L0:147:THR:O	1:L0:147:THR:OG1	2.25	0.54
1:L0:576:ASN:HD21	1:L0:613:ASN:HD22	1.56	0.54
1:L1:195:LEU:HD22	1:L1:201:ALA:HB1	1.89	0.54
1:L2:256:PRO:HG2	1:L2:339:THR:H	1.73	0.54
1:L8:11:LYS:HG2	1:L8:13:THR:HG23	1.90	0.54
1:LR:332:GLU:OE1	1:LR:332:GLU:N	2.35	0.54
1:LS:135:ASP:OD1	1:LS:136:ALA:N	2.41	0.54
1:LS:400:ARG:NH1	1:LS:402:ASP:OD1	2.41	0.54
1:LV:467:TRP:CZ3	1:LW:199:GLU:HB2	2.43	0.54
1:LX:43:GLN:NE2	1:LX:77:ASP:OD1	2.40	0.54
1:LX:481:THR:HG23	1:LX:496:ARG:HD3	1.89	0.54
1:Lx:246:LYS:HB2	1:Lx:250:ALA:HB2	1.89	0.54
1:M1:538:ASP:N	1:M1:538:ASP:OD1	2.40	0.54
1:M3:400:ARG:HD3	1:M3:403:CYS:SG	2.48	0.54
1:MS:481:THR:HG23	1:MS:496:ARG:HD2	1.89	0.54
1:MU:143:ILE:HD12	1:MU:145:ILE:HD11	1.88	0.54
1:MX:102:THR:N	1:MX:183:THR:O	2.41	0.54
1:MX:467:TRP:HZ3	1:MY:199:GLU:HB2	1.73	0.54
1:MZ:430:ARG:HG3	1:MZ:522:ILE:HD11	1.90	0.54
1:Md:110:TYR:CE1	1:Md:171:ILE:HD12	2.43	0.54
1:Mx:47:GLU:OE1	1:Mx:461:TYR:OH	2.26	0.54
1:Mz:91:ASN:HB2	1:Mz:193:ILE:HG23	1.90	0.54
1:Mz:559:MET:HG3	1:Mz:560:LEU:N	2.21	0.54
1:Nd:400:ARG:HD3	1:Nd:403:CYS:SG	2.48	0.54
1:Nf:121:VAL:HG13	1:Nf:166:ASN:HB3	1.89	0.54
1:Nh:538:ASP:N	1:Nh:538:ASP:OD1	2.40	0.54
1:Ni:454:TYR:HB3	1:Ni:467:TRP:CD1	2.42	0.54
1:Nj:147:THR:HG22	1:Nj:150:ILE:HD12	1.90	0.54
1:Nz:560:LEU:O	1:Nz:564:ILE:HG12	2.07	0.54
2:Ol:56:ARG:HB3	2:Ol:56:ARG:HH11	1.72	0.54
2:PM:82:ARG:NH1	2:PM:138:GLY:HA2	2.23	0.54
2:Pk:56:ARG:HB3	2:Pk:56:ARG:HH11	1.73	0.54
2:Pt:114:ARG:HG2	2:Pt:126:GLU:HG3	1.89	0.54
2:RD:56:ARG:HH12	2:RS:66:PHE:HE2	1.56	0.54
2:RT:113:VAL:HG13	2:RT:127:ILE:HG12	1.89	0.54
1:K0:417:ILE:HD13	1:K0:417:ILE:H	1.73	0.53
1:K1:135:ASP:OD1	1:K1:136:ALA:N	2.41	0.53
1:L4:400:ARG:HB3	1:L4:400:ARG:HH11	1.73	0.53
1:L7:135:ASP:HB3	1:L7:139:LYS:HB2	1.90	0.53
1:L8:643:VAL:HG13	1:Mc:14:THR:HG22	1.90	0.53
1:LQ:107:GLY:HA3	1:LQ:110:TYR:HE2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LQ:253:PRO:HG2	1:LQ:255:TYR:CE1	2.42	0.53
1:LQ:312:ASP:OD1	1:LQ:312:ASP:N	2.40	0.53
1:LQ:655:THR:HB	1:Lv:19:VAL:HG21	1.90	0.53
1:LS:549:ASP:OD2	1:Lx:271:TYR:OH	2.20	0.53
1:LY:350:VAL:HG13	1:LY:354:ASP:HB2	1.90	0.53
1:LZ:453:ASN:HB2	1:LZ:506:ALA:HB3	1.89	0.53
1:Ld:368:VAL:O	1:Ld:400:ARG:NH2	2.42	0.53
1:Lv:365:ARG:HA	1:Lv:400:ARG:HH21	1.73	0.53
1:Lv:539:LYS:HD3	1:Lv:550:ARG:HH21	1.72	0.53
1:Lw:438:ASP:OD1	1:Lw:438:ASP:N	2.31	0.53
1:Lx:505:LEU:HD21	1:Lx:525:VAL:HG12	1.90	0.53
1:Lz:246:LYS:HB2	1:Lz:250:ALA:HB2	1.90	0.53
1:M0:651:PHE:HD2	1:M0:654:LEU:HD12	1.71	0.53
1:M8:560:LEU:HD22	1:M8:629:ILE:HD13	1.90	0.53
1:M9:246:LYS:HB2	1:M9:250:ALA:HB2	1.89	0.53
1:MQ:140:ILE:O	1:MQ:141:LYS:NZ	2.31	0.53
1:MV:209:ASP:N	1:MV:209:ASP:OD1	2.41	0.53
1:MY:137:ASP:OD1	1:MY:137:ASP:N	2.38	0.53
1:MY:379:ALA:O	1:MY:381:GLU:N	2.40	0.53
1:MZ:33:PHE:HA	1:MZ:61:THR:HG23	1.90	0.53
1:Ma:642:PHE:CE1	1:Mb:564:ILE:HD11	2.43	0.53
1:Md:118:VAL:HG22	1:Md:169:ALA:HB2	1.90	0.53
1:Me:406:LEU:HD13	1:Me:475:ALA:HB2	1.90	0.53
1:Mz:105:THR:HB	1:Mz:181:VAL:H	1.72	0.53
1:Mz:560:LEU:O	1:Mz:564:ILE:HG12	2.08	0.53
1:NV:467:TRP:HZ3	1:NW:199:GLU:HB2	1.73	0.53
1:Na:601:ILE:HG22	1:Na:603:GLU:H	1.72	0.53
1:Nd:540:THR:HG22	1:Nd:551:ILE:HG12	1.89	0.53
1:Nf:134:VAL:HG12	1:Nf:140:ILE:HG22	1.90	0.53
1:Nh:571:ARG:NH2	1:Nh:587:GLU:OE1	2.39	0.53
1:Nj:291:GLN:HE22	1:Nj:320:SER:HB2	1.73	0.53
2:Ok:82:ARG:HH11	2:Ok:138:GLY:HA2	1.73	0.53
2:Or:104:PRO:O	2:Or:108:LYS:HB2	2.08	0.53
2:Pm:54:MET:HE3	2:RI:20:LEU:HA	1.90	0.53
2:Pp:19:ASN:N	2:Pp:19:ASN:OD1	2.41	0.53
2:RL:113:VAL:HG13	2:RL:127:ILE:HG12	1.89	0.53
2:Rp:91:ILE:HG22	2:Rp:107:TYR:HB3	1.89	0.53
1:K2:400:ARG:NH1	1:K2:403:CYS:SG	2.79	0.53
1:K3:34:GLN:HG2	1:K3:230:LEU:HD12	1.91	0.53
1:K4:237:GLU:OE1	1:K4:284:ARG:NH1	2.35	0.53
1:L1:225:LEU:HD13	1:L1:324:PHE:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L1:417:ILE:HD13	1:L1:417:ILE:H	1.71	0.53
1:L4:66:MET:HG2	1:L4:468:VAL:HG21	1.88	0.53
1:L4:576:ASN:ND2	1:L4:622:GLU:O	2.40	0.53
1:L7:95:ILE:HD13	1:L7:213:ASN:HB2	1.90	0.53
1:L7:406:LEU:HD22	1:L7:474:ILE:HG13	1.90	0.53
1:L9:560:LEU:O	1:L9:564:ILE:HG12	2.07	0.53
1:LR:256:PRO:HG2	1:LR:339:THR:H	1.72	0.53
1:Lb:32:LYS:NZ	1:Lb:347:ASN:O	2.35	0.53
1:Le:332:GLU:OE1	1:Le:332:GLU:N	2.31	0.53
1:MQ:243:ASP:HA	1:MQ:246:LYS:HD2	1.90	0.53
1:MW:32:LYS:NZ	1:MW:60:GLU:OE2	2.31	0.53
1:MW:540:THR:HG22	1:MW:551:ILE:HG13	1.90	0.53
1:MZ:596:LYS:NZ	1:MZ:602:TYR:O	2.41	0.53
1:Md:28:ALA:HB2	1:Md:370:VAL:HG21	1.89	0.53
1:Mv:384:GLU:O	1:Mv:388:THR:OG1	2.25	0.53
1:Mw:510:ARG:HG2	1:Mw:511:GLN:H	1.73	0.53
1:Mz:645:THR:HB	1:Mz:650:ASP:OD1	2.08	0.53
1:NV:368:VAL:O	1:NV:400:ARG:NH2	2.41	0.53
1:NW:406:LEU:HD22	1:NW:474:ILE:HG13	1.90	0.53
1:Na:70:ASN:OD1	1:Na:457:GLN:NE2	2.37	0.53
1:Na:400:ARG:NH1	1:Na:402:ASP:OD1	2.41	0.53
1:Nc:614:THR:C	1:Nc:616:SER:H	2.16	0.53
1:Ni:131:ILE:HD13	1:Ni:140:ILE:HG21	1.90	0.53
1:Nj:202:GLU:OE1	1:Nj:203:ALA:N	2.42	0.53
1:Nz:100:GLU:HB3	1:Nz:188:ILE:HD11	1.90	0.53
1:Nz:473:ASP:HB3	1:Nz:499:ILE:HG23	1.91	0.53
2:OC:83:GLN:OE1	2:RR:125:LYS:NZ	2.33	0.53
2:OE:107:TYR:O	2:OE:133:TRP:HB3	2.07	0.53
2:ON:39:THR:HG22	2:ON:71:VAL:HG13	1.90	0.53
2:Os:83:GLN:HA	2:Os:86:VAL:HG22	1.91	0.53
2:PD:120:ALA:HB3	2:PD:121:LYS:HE2	1.90	0.53
2:PG:56:ARG:HG3	2:RG:99:ILE:HG12	1.89	0.53
2:Pj:16:ALA:HB3	2:RE:151:GLN:HB2	1.90	0.53
2:Pq:131:GLY:O	2:Pq:159:LEU:HA	2.08	0.53
2:Rp:67:ASP:OD1	2:Rp:67:ASP:N	2.34	0.53
1:K0:235:GLU:OE2	1:K0:261:ARG:NH2	2.34	0.53
1:K4:10:LEU:HD13	1:Ne:561:LYS:HD2	1.91	0.53
1:K4:576:ASN:ND2	1:K4:622:GLU:O	2.41	0.53
1:K7:512:ALA:O	1:K7:516:ARG:HG3	2.09	0.53
1:K8:488:TRP:HB3	1:K8:556:LEU:HD12	1.89	0.53
1:L6:278:GLN:HG2	1:L6:296:SER:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LR:31:GLY:HA3	1:LR:64:TYR:CD2	2.44	0.53
1:LS:480:ARG:C	1:LS:482:ASP:H	2.16	0.53
1:La:140:ILE:O	1:La:141:LYS:NZ	2.41	0.53
1:La:378:CYS:HB3	1:La:390:GLN:NE2	2.24	0.53
1:M0:272:GLY:O	1:M0:274:GLN:NE2	2.40	0.53
1:M0:511:GLN:OE1	1:Nj:5:SER:OG	2.25	0.53
1:M2:379:ALA:HA	1:M2:411:ARG:HB2	1.91	0.53
1:M6:200:ASN:OD1	1:M6:200:ASN:N	2.41	0.53
1:M7:453:ASN:HB3	1:M7:507:ILE:HG12	1.91	0.53
1:M8:332:GLU:OE1	1:M8:332:GLU:N	2.36	0.53
1:MU:120:TYR:HE1	1:MU:166:ASN:HD22	1.54	0.53
1:MV:526:THR:OG1	1:MV:527:GLY:N	2.40	0.53
1:MX:135:ASP:N	1:MX:139:LYS:O	2.40	0.53
1:MX:332:GLU:CD	1:MX:332:GLU:H	2.16	0.53
1:MY:131:ILE:HD13	1:MY:140:ILE:HG21	1.90	0.53
1:MZ:116:ILE:HD12	1:MZ:171:ILE:HG12	1.91	0.53
1:Ma:429:TRP:CZ2	1:Ma:441:PHE:HB2	2.43	0.53
1:Mb:31:GLY:HA3	1:Mb:64:TYR:CD1	2.43	0.53
1:Mc:378:CYS:HB2	1:Mc:410:PRO:HA	1.89	0.53
1:Me:219:ILE:HG22	1:Me:255:TYR:HD2	1.74	0.53
1:Me:391:LYS:HD2	1:Me:443:ILE:HG23	1.91	0.53
1:Mw:105:THR:HB	1:Mw:181:VAL:H	1.73	0.53
1:Ni:100:GLU:OE2	1:Ni:186:LYS:N	2.41	0.53
1:Nw:480:ARG:C	1:Nw:482:ASP:H	2.16	0.53
1:Nx:642:PHE:CE1	1:Nz:564:ILE:HD11	2.43	0.53
1:Nz:378:CYS:HG	1:Nz:379:ALA:N	2.07	0.53
2:Op:41:LEU:HG	2:Op:127:ILE:HD13	1.90	0.53
2:PO:114:ARG:HG2	2:PO:126:GLU:HG3	1.90	0.53
2:Pj:82:ARG:NH1	2:Pj:138:GLY:HA2	2.19	0.53
2:Rm:147:ASN:N	2:Rm:147:ASN:OD1	2.40	0.53
1:K3:467:TRP:CZ3	1:K4:199:GLU:HB2	2.43	0.53
1:K9:64:TYR:HE1	1:K9:377:SER:HB3	1.71	0.53
1:K9:264:THR:O	1:K9:266:LYS:N	2.42	0.53
1:L3:394:VAL:HG11	1:L3:443:ILE:HD12	1.90	0.53
1:L4:417:ILE:HG22	1:L4:418:PRO:HD2	1.90	0.53
1:L7:571:ARG:NH2	1:L7:587:GLU:OE1	2.37	0.53
1:L9:455:LYS:HG3	1:L9:502:VAL:HG13	1.91	0.53
1:LR:427:VAL:O	1:LR:431:THR:OG1	2.16	0.53
1:LV:154:ALA:HA	1:LV:157:VAL:HG22	1.89	0.53
1:LW:206:THR:HA	1:LW:211:GLN:HE21	1.73	0.53
1:LZ:470:LEU:HD23	1:LZ:525:VAL:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lb:455:LYS:HB3	1:Lb:470:LEU:HD13	1.91	0.53
1:Lc:494:TYR:CZ	1:Ld:569:LYS:HD3	2.43	0.53
1:Ld:510:ARG:HE	1:Le:363:ALA:HB3	1.73	0.53
1:Le:46:ASN:OD1	1:Le:47:GLU:N	2.42	0.53
1:Lx:494:TYR:HE2	1:Lx:528:THR:HG21	1.74	0.53
1:Lz:135:ASP:HB3	1:Lz:139:LYS:HB2	1.89	0.53
1:M6:33:PHE:HA	1:M6:61:THR:HG23	1.89	0.53
1:M7:137:ASP:OD1	1:M7:137:ASP:N	2.39	0.53
1:M9:427:VAL:HG13	1:M9:520:GLU:HG3	1.90	0.53
1:MQ:110:TYR:H	1:MQ:138:GLY:HA3	1.74	0.53
1:MX:28:ALA:HB2	1:MX:370:VAL:HG21	1.90	0.53
1:Me:490:SER:O	1:Me:496:ARG:NH1	2.40	0.53
1:NZ:228:GLY:HA2	1:NZ:345:SER:HB3	1.90	0.53
1:Nd:373:PHE:HB2	1:Nd:405:VAL:HG22	1.91	0.53
1:Ng:107:GLY:HA3	1:Ng:110:TYR:CE2	2.44	0.53
1:Nw:281:ILE:HG13	1:Nw:295:LEU:HD12	1.90	0.53
1:Nx:391:LYS:NZ	1:Nx:440:ASN:O	2.40	0.53
2:OD:1:MET:HE3	2:PC:99:ILE:HD12	1.89	0.53
2:OE:83:GLN:HA	2:OE:86:VAL:HG22	1.90	0.53
2:OI:56:ARG:HB3	2:OI:56:ARG:HH11	1.73	0.53
2:PO:80:ASP:O	2:PO:84:LYS:HG3	2.09	0.53
2:Pq:41:LEU:HG	2:Pq:127:ILE:HD13	1.89	0.53
2:RF:120:ALA:HB3	2:RF:121:LYS:HD2	1.89	0.53
2:RM:48:LYS:HG3	2:RM:59:ASN:HB3	1.91	0.53
2:Rm:19:ASN:OD1	2:Rm:19:ASN:N	2.27	0.53
1:K1:480:ARG:C	1:K1:482:ASP:H	2.16	0.53
1:K2:296:SER:O	1:K2:311:ILE:HG13	2.08	0.53
1:K5:121:VAL:HG13	1:K5:166:ASN:HB3	1.90	0.53
1:K7:108:SER:OG	1:K7:137:ASP:OD2	2.27	0.53
1:K9:510:ARG:HG2	1:K9:511:GLN:H	1.73	0.53
1:L0:29:LEU:O	1:L0:80:VAL:HA	2.09	0.53
1:L0:285:ARG:HH21	1:L0:322:TYR:HE2	1.55	0.53
1:L4:137:ASP:OD1	1:L4:137:ASP:N	2.38	0.53
1:L9:40:GLN:H	1:L9:81:VAL:HG23	1.73	0.53
1:LS:104:SER:HG	1:LS:183:THR:HG1	1.46	0.53
1:LU:485:SER:OG	1:LU:486:GLN:N	2.42	0.53
1:LZ:46:ASN:OD1	1:LZ:47:GLU:N	2.41	0.53
1:Lb:107:GLY:HA3	1:Lb:110:TYR:CE2	2.43	0.53
1:Le:40:GLN:H	1:Le:81:VAL:HG23	1.73	0.53
1:M1:26:THR:HA	1:M1:77:ASP:O	2.08	0.53
1:M3:110:TYR:H	1:M3:138:GLY:HA3	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MR:561:LYS:NZ	1:Mv:12:GLU:OE2	2.36	0.53
1:MR:614:THR:C	1:MR:616:SER:H	2.17	0.53
1:MU:478:CYS:O	1:MU:555:ARG:NH1	2.41	0.53
1:MW:400:ARG:HH11	1:MW:403:CYS:HG	1.53	0.53
1:Mb:107:GLY:HA3	1:Mb:110:TYR:CE2	2.43	0.53
1:Md:378:CYS:HB2	1:Md:410:PRO:HA	1.90	0.53
1:NW:193:ILE:HG21	1:NW:223:VAL:HG11	1.91	0.53
1:NW:478:CYS:O	1:NW:555:ARG:NH1	2.39	0.53
1:Ng:199:GLU:OE1	1:Ng:200:ASN:ND2	2.35	0.53
1:Nh:400:ARG:HD3	1:Nh:403:CYS:SG	2.48	0.53
1:Ni:453:ASN:HB2	1:Ni:506:ALA:HB3	1.90	0.53
1:Nv:43:GLN:OE1	1:Nv:79:ARG:NH1	2.38	0.53
1:Nw:77:ASP:OD2	1:Nw:79:ARG:NH1	2.42	0.53
1:Nx:159:GLU:OE1	1:Nx:167:TRP:NE1	2.42	0.53
2:OK:22:GLN:HB2	2:OK:116:TYR:HE2	1.73	0.53
2:Ol:2:PHE:HB3	2:Pk:97:ASN:HB3	1.89	0.53
2:PI:83:GLN:HA	2:PI:86:VAL:HG22	1.90	0.53
2:Ps:49:ILE:HG12	2:Ps:60:VAL:HG12	1.90	0.53
1:K9:213:ASN:O	1:K9:217:TYR:HD1	1.91	0.53
1:L4:119:LYS:HE3	1:L4:122:SER:HA	1.90	0.53
1:L4:253:PRO:HG2	1:L4:255:TYR:CE1	2.44	0.53
1:L7:153:LYS:HB3	1:L7:167:TRP:HH2	1.74	0.53
1:LQ:34:GLN:HG2	1:LQ:230:LEU:HG	1.90	0.53
1:Lb:195:LEU:H	1:Lb:195:LEU:HD23	1.74	0.53
1:Lc:239:VAL:HG23	1:Lc:280:ALA:HB3	1.91	0.53
1:Le:108:SER:OG	1:Le:137:ASP:OD2	2.26	0.53
1:Le:406:LEU:HD13	1:Le:475:ALA:HB2	1.90	0.53
1:Lv:467:TRP:CZ3	1:Lw:199:GLU:HB2	2.44	0.53
1:MQ:135:ASP:OD1	1:MQ:136:ALA:N	2.42	0.53
1:MX:107:GLY:HA3	1:MX:110:TYR:HE2	1.73	0.53
1:Mc:410:PRO:O	1:Mc:413:THR:HG22	2.09	0.53
1:Me:261:ARG:NH2	1:Me:337:ILE:HG21	2.23	0.53
1:Mw:480:ARG:C	1:Mw:482:ASP:H	2.17	0.53
1:Mx:642:PHE:CE1	1:Mz:564:ILE:HD11	2.44	0.53
1:NW:198:ILE:HD11	1:NW:225:LEU:HD11	1.90	0.53
1:NZ:480:ARG:C	1:NZ:482:ASP:H	2.16	0.53
1:Nd:131:ILE:HD11	1:Nd:171:ILE:HD13	1.90	0.53
1:Ne:400:ARG:HD3	1:Ne:403:CYS:SG	2.49	0.53
1:Ni:110:TYR:CE1	1:Ni:177:GLY:HA3	2.42	0.53
1:Nj:438:ASP:OD1	1:Nj:439:ASN:N	2.40	0.53
1:Nj:441:PHE:CZ	1:Nj:443:ILE:HD11	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:114:ARG:HG2	2:OI:126:GLU:HG3	1.89	0.53
2:Oj:37:LYS:NZ	2:Oj:152:THR:OG1	2.38	0.53
2:Ok:56:ARG:HB3	2:Ok:56:ARG:HH11	1.72	0.53
2:Oo:39:THR:HG22	2:Oo:71:VAL:HG13	1.89	0.53
2:Ot:52:GLY:HA2	2:Ot:57:LYS:HB3	1.88	0.53
1:K1:198:ILE:HG23	1:K1:324:PHE:HE2	1.73	0.53
1:K3:22:ASN:N	1:K3:22:ASN:OD1	2.38	0.53
1:LQ:135:ASP:OD1	1:LQ:136:ALA:N	2.42	0.53
1:LU:215:LYS:HB2	1:LU:329:ASN:HD22	1.73	0.53
1:LV:118:VAL:HB	1:LV:126:GLU:HB3	1.90	0.53
1:LW:620:ARG:HB2	1:LW:622:GLU:HG3	1.90	0.53
1:La:400:ARG:HD3	1:La:403:CYS:SG	2.48	0.53
1:Lc:159:GLU:OE1	1:Lc:164:GLY:N	2.42	0.53
1:Lc:400:ARG:HD3	1:Lc:403:CYS:SG	2.49	0.53
1:Lw:400:ARG:HD3	1:Lw:403:CYS:SG	2.49	0.53
1:M6:360:ASP:OD1	1:M6:392:HIS:NE2	2.36	0.53
1:M8:306:ASP:OD1	1:M8:306:ASP:N	2.41	0.53
1:MS:635:ILE:HD13	1:MU:623:PHE:HB2	1.90	0.53
1:MU:116:ILE:HD13	1:MU:171:ILE:HG12	1.91	0.53
1:MV:118:VAL:HG22	1:MV:169:ALA:HB2	1.91	0.53
1:MY:514:ARG:NH1	1:MZ:366:GLU:OE2	2.42	0.53
1:Ma:108:SER:OG	1:Ma:137:ASP:OD2	2.24	0.53
1:Mb:372:LEU:HD21	1:Mb:478:CYS:HB2	1.90	0.53
1:Mv:417:ILE:HD13	1:Mv:417:ILE:H	1.73	0.53
1:Mw:459:ASP:OD2	1:Mw:466:ARG:NH1	2.41	0.53
1:NV:110:TYR:CD1	1:NV:177:GLY:HA3	2.42	0.53
1:NV:414:VAL:HG23	1:NV:422:ALA:HB1	1.90	0.53
1:NX:91:ASN:N	1:NX:91:ASN:OD1	2.41	0.53
1:NX:641:ASN:HA	1:Nx:11:LYS:O	2.09	0.53
1:NZ:467:TRP:CZ3	1:Na:199:GLU:HB2	2.44	0.53
1:Nd:114:ASP:HB2	1:Nd:131:ILE:HG13	1.91	0.53
1:Nf:90:LYS:NZ	1:Nf:190:ASP:OD1	2.41	0.53
1:Nf:108:SER:OG	1:Nf:137:ASP:OD2	2.26	0.53
1:Nj:39:PHE:HB3	1:Nj:361:PHE:CE2	2.42	0.53
1:Nv:51:VAL:HG22	1:Nv:65:PHE:HZ	1.74	0.53
2:PM:46:VAL:HG22	2:PM:64:ARG:HE	1.74	0.53
2:Rk:56:ARG:HB3	2:Rk:56:ARG:NH1	2.24	0.53
1:K1:303:ASP:OD1	1:K1:304:ILE:N	2.42	0.53
1:K1:430:ARG:NH2	1:K1:443:ILE:O	2.41	0.53
1:K3:110:TYR:CE1	1:K3:171:ILE:HD12	2.44	0.53
1:K3:549:ASP:OD2	1:LX:271:TYR:OH	2.14	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K4:455:LYS:HZ1	1:K4:457:GLN:HB2	1.74	0.53
1:L2:478:CYS:O	1:L2:555:ARG:NH1	2.42	0.53
1:L5:510:ARG:HG2	1:L5:511:GLN:H	1.73	0.53
1:L7:119:LYS:NZ	1:L7:124:ASP:OD1	2.41	0.53
1:L9:57:PRO:HG3	1:L9:65:PHE:CD1	2.43	0.53
1:L9:480:ARG:O	1:L9:484:VAL:HG12	2.09	0.53
1:LQ:26:THR:HA	1:LQ:77:ASP:O	2.08	0.53
1:LQ:211:GLN:OE1	1:LQ:329:ASN:ND2	2.41	0.53
1:LS:645:THR:OG1	1:LU:629:ILE:O	2.26	0.53
1:LU:454:TYR:HB3	1:LU:467:TRP:CD1	2.44	0.53
1:Lw:116:ILE:HD12	1:Lw:171:ILE:HG12	1.91	0.53
1:Lw:411:ARG:O	1:Lw:415:VAL:HB	2.09	0.53
1:Lx:296:SER:O	1:Lx:311:ILE:HG13	2.09	0.53
1:M0:205:MET:O	1:M0:211:GLN:NE2	2.41	0.53
1:M2:563:ASN:ND2	1:M2:591:TYR:OH	2.34	0.53
1:M8:454:TYR:HB3	1:M8:467:TRP:CD1	2.42	0.53
1:MQ:26:THR:HA	1:MQ:77:ASP:O	2.08	0.53
1:MQ:454:TYR:HB3	1:MQ:467:TRP:CD1	2.44	0.53
1:MQ:459:ASP:OD2	1:MQ:466:ARG:NH1	2.42	0.53
1:MU:34:GLN:OE1	1:MU:58:THR:OG1	2.27	0.53
1:MW:135:ASP:N	1:MW:139:LYS:O	2.42	0.53
1:MY:105:THR:HB	1:MY:181:VAL:H	1.74	0.53
1:Mb:505:LEU:HD22	1:Mb:533:TYR:HD2	1.74	0.53
1:Mc:430:ARG:HB2	1:Mc:522:ILE:HD11	1.91	0.53
1:Mx:378:CYS:SG	1:Mx:454:TYR:OH	2.52	0.53
1:NZ:365:ARG:HA	1:NZ:400:ARG:NH2	2.24	0.53
1:NZ:394:VAL:HG11	1:NZ:443:ILE:HD12	1.89	0.53
1:NZ:478:CYS:O	1:NZ:555:ARG:NH1	2.41	0.53
1:Nb:44:VAL:HG11	1:Nb:50:LEU:HB2	1.90	0.53
1:Ne:455:LYS:HD2	1:Ne:502:VAL:HG22	1.90	0.53
1:Nh:454:TYR:HB3	1:Nh:467:TRP:CD1	2.44	0.53
1:Ni:193:ILE:HG21	1:Ni:223:VAL:HG11	1.91	0.53
2:OC:97:ASN:HA	2:RD:3:VAL:HG12	1.90	0.53
2:OM:41:LEU:HG	2:OM:127:ILE:HD13	1.90	0.53
2:OM:70:THR:HG22	2:OM:156:THR:HG22	1.89	0.53
2:Ol:16:ALA:HB3	2:PG:151:GLN:HB2	1.90	0.53
2:PH:14:ASP:CG	2:PH:17:ARG:HH21	2.17	0.53
2:Pk:98:GLU:H	2:Pk:98:GLU:CD	2.16	0.53
2:Pm:55:ASN:OD1	2:RI:19:ASN:ND2	2.41	0.53
2:Ps:24:GLU:HB2	2:Ps:114:ARG:HH12	1.74	0.53
2:RC:139:GLU:OE2	2:RC:141:GLN:NE2	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K0:518:TYR:CE2	1:Le:6:PRO:HD3	2.43	0.53
1:K4:151:ILE:O	1:K4:155:LYS:HG2	2.08	0.53
1:K8:655:THR:HB	1:Lc:19:VAL:HG21	1.91	0.53
1:L0:49:ASP:OD1	1:L0:49:ASP:N	2.42	0.53
1:L2:103:ILE:HD13	1:L2:182:ILE:HG22	1.89	0.53
1:L3:614:THR:C	1:L3:616:SER:H	2.17	0.53
1:LQ:41:ILE:HD13	1:LQ:81:VAL:HB	1.91	0.53
1:LU:303:ASP:OD1	1:LU:304:ILE:N	2.42	0.53
1:LY:114:ASP:HB2	1:LY:131:ILE:HG13	1.91	0.53
1:Lw:478:CYS:O	1:Lw:555:ARG:NH1	2.40	0.53
1:Lx:220:PRO:HG2	1:Lx:338:LEU:HD11	1.90	0.53
1:Lx:278:GLN:HG2	1:Lx:296:SER:HB2	1.91	0.53
1:M1:110:TYR:H	1:M1:138:GLY:HA3	1.74	0.53
1:M1:510:ARG:N	1:M1:513:GLN:OE1	2.36	0.53
1:M2:511:GLN:OE1	1:M2:514:ARG:NH2	2.42	0.53
1:M9:57:PRO:HB3	1:M9:62:ALA:HA	1.90	0.53
1:M9:278:GLN:HG2	1:M9:296:SER:HB2	1.90	0.53
1:MS:560:LEU:HD21	1:MS:601:ILE:HD11	1.91	0.53
1:MV:107:GLY:HA3	1:MV:110:TYR:CE2	2.44	0.53
1:MW:510:ARG:HG2	1:MW:511:GLN:H	1.74	0.53
1:MY:612:ASN:HB3	1:MY:624:VAL:HG23	1.91	0.53
1:MY:641:ASN:HB2	1:MZ:626:THR:HG23	1.90	0.53
1:Ma:303:ASP:OD2	1:Ma:304:ILE:N	2.42	0.53
1:Mv:119:LYS:HE3	1:Mv:122:SER:HA	1.91	0.53
1:Mv:539:LYS:HD3	1:Mv:550:ARG:HH21	1.74	0.53
1:Mx:444:SER:OG	1:Mx:543:SER:OG	2.17	0.53
1:Mz:417:ILE:H	1:Mz:417:ILE:HD13	1.73	0.53
1:NV:455:LYS:NZ	1:NV:473:ASP:OD1	2.42	0.53
1:NW:119:LYS:NZ	1:NW:124:ASP:OD1	2.32	0.53
1:NW:480:ARG:C	1:NW:482:ASP:H	2.16	0.53
1:Na:107:GLY:HA3	1:Na:110:TYR:HE2	1.73	0.53
1:Na:427:VAL:HG13	1:Na:520:GLU:HG3	1.91	0.53
1:Nb:104:SER:OG	1:Nb:183:THR:OG1	2.22	0.53
1:Nd:444:SER:HG	1:Nd:543:SER:HG	1.37	0.53
1:Nd:538:ASP:OD1	1:Nd:538:ASP:N	2.40	0.53
1:Nj:140:ILE:O	1:Nj:141:LYS:NZ	2.42	0.53
2:PJ:116:TYR:CE1	2:PJ:123:VAL:HG22	2.44	0.53
2:Pi:63:ASP:OD1	2:Pi:63:ASP:N	2.39	0.53
2:Pp:1:MET:SD	2:RK:22:GLN:NE2	2.82	0.53
2:RS:80:ASP:O	2:RS:84:LYS:HG3	2.09	0.53
2:RS:136:ASN:O	2:RS:136:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Rk:98:GLU:CD	2:Rk:98:GLU:H	2.16	0.53
1:K4:32:LYS:HE2	1:K4:350:VAL:HB	1.90	0.53
1:K6:467:TRP:HZ3	1:K7:199:GLU:HB2	1.72	0.53
1:K7:195:LEU:HD23	1:K7:195:LEU:H	1.73	0.53
1:L2:379:ALA:HA	1:L2:411:ARG:HB2	1.91	0.53
1:L7:14:THR:HG22	1:Lb:643:VAL:HG13	1.90	0.53
1:L8:444:SER:OG	1:L8:543:SER:OG	2.16	0.53
1:LQ:494:TYR:CZ	1:LR:569:LYS:HD3	2.44	0.53
1:LR:120:TYR:N	1:LR:123:ASP:O	2.41	0.53
1:LZ:26:THR:HA	1:LZ:77:ASP:O	2.08	0.53
1:La:193:ILE:HG21	1:La:223:VAL:HG11	1.91	0.53
1:Ld:103:ILE:HD13	1:Ld:182:ILE:HG22	1.90	0.53
1:M5:159:GLU:HB3	1:M5:163:LEU:HA	1.89	0.53
1:M7:166:ASN:N	1:M7:166:ASN:OD1	2.42	0.53
1:M9:332:GLU:OE1	1:M9:332:GLU:N	2.37	0.53
1:MQ:117:THR:HG23	1:MQ:127:THR:HG22	1.90	0.53
1:MS:121:VAL:HG13	1:MS:166:ASN:HB3	1.90	0.53
1:MZ:118:VAL:HB	1:MZ:126:GLU:HB3	1.91	0.53
1:MZ:151:ILE:O	1:MZ:155:LYS:HG2	2.09	0.53
1:MZ:269:PHE:CE2	1:MZ:280:ALA:HB1	2.44	0.53
1:Ma:560:LEU:O	1:Ma:564:ILE:HG12	2.09	0.53
1:Mv:406:LEU:HD13	1:Mv:475:ALA:HB2	1.91	0.53
1:Mx:253:PRO:HG2	1:Mx:255:TYR:CE1	2.44	0.53
1:NZ:360:ASP:OD1	1:NZ:392:HIS:NE2	2.34	0.53
1:Nj:410:PRO:O	1:Nj:413:THR:HG22	2.09	0.53
1:Nv:510:ARG:HG2	1:Nv:511:GLN:H	1.74	0.53
1:Nz:613:ASN:HA	1:Nz:617:VAL:HG11	1.90	0.53
2:OG:38:ALA:HB3	2:OG:72:THR:HG23	1.90	0.53
2:OK:147:ASN:ND2	2:Ro:63:ASP:OD2	2.42	0.53
2:ON:23:VAL:HG11	2:ON:39:THR:HG21	1.90	0.53
2:Oi:80:ASP:O	2:Oi:84:LYS:HG3	2.08	0.53
2:On:113:VAL:HG13	2:On:127:ILE:HG12	1.90	0.53
2:Ph:25:ILE:C	2:Ph:27:TYR:H	2.17	0.53
2:RE:41:LEU:HB2	2:RT:140:LEU:HB3	1.91	0.53
2:Rl:75:ASN:ND2	2:Rl:151:GLN:OE1	2.35	0.53
2:Rr:136:ASN:O	2:Rr:136:ASN:ND2	2.34	0.53
1:K4:549:ASP:OD2	1:LY:271:TYR:OH	2.19	0.52
1:L0:417:ILE:H	1:L0:417:ILE:HD13	1.73	0.52
1:L0:511:GLN:OE1	1:Me:5:SER:OG	2.26	0.52
1:L6:220:PRO:HG2	1:L6:338:LEU:HD11	1.91	0.52
1:L6:456:TYR:O	1:L6:503:ILE:HG22	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LV:509:THR:O	1:LV:514:ARG:NH1	2.41	0.52
1:LW:438:ASP:OD1	1:LW:438:ASP:N	2.42	0.52
1:La:51:VAL:HG22	1:La:65:PHE:HZ	1.74	0.52
1:Lb:275:THR:HG23	1:Lb:278:GLN:HG3	1.91	0.52
1:Lb:614:THR:C	1:Lb:616:SER:H	2.17	0.52
1:Lv:351:THR:HG23	1:Lv:353:GLY:H	1.73	0.52
1:M1:143:ILE:HD12	1:M1:145:ILE:HD11	1.91	0.52
1:M4:374:ILE:HG22	1:M4:376:GLY:H	1.74	0.52
1:M6:2:THR:OG1	1:M6:3:LEU:N	2.41	0.52
1:M9:256:PRO:HG2	1:M9:339:THR:H	1.74	0.52
1:MQ:2:THR:OG1	1:MQ:3:LEU:N	2.39	0.52
1:MS:103:ILE:HD13	1:MS:182:ILE:HG22	1.91	0.52
1:MW:438:ASP:OD1	1:MW:438:ASP:N	2.35	0.52
1:MX:612:ASN:HB3	1:MX:624:VAL:HG23	1.91	0.52
1:MY:41:ILE:HD11	1:MY:361:PHE:HB3	1.90	0.52
1:MZ:131:ILE:HD13	1:MZ:140:ILE:HG21	1.91	0.52
1:Mb:406:LEU:HD13	1:Mb:475:ALA:HB2	1.91	0.52
1:Me:109:ASN:N	1:Me:138:GLY:HA3	2.24	0.52
1:Mv:114:ASP:OD1	1:Mv:114:ASP:N	2.42	0.52
1:Mv:240:SER:OG	1:Mv:243:ASP:OD1	2.26	0.52
1:Mv:456:TYR:HB3	1:Mv:503:ILE:HG12	1.90	0.52
1:Mz:628:TYR:HH	1:NX:17:SER:HG	1.54	0.52
1:NV:29:LEU:HB3	1:NV:80:VAL:HG23	1.91	0.52
1:NX:378:CYS:HB2	1:NX:410:PRO:HA	1.90	0.52
1:Nc:459:ASP:OD2	1:Nc:466:ARG:NH1	2.42	0.52
1:Nj:241:LYS:NZ	1:Nj:274:GLN:O	2.26	0.52
1:Nz:617:VAL:HG22	1:Nz:622:GLU:HB2	1.91	0.52
2:OD:91:ILE:HG22	2:OD:107:TYR:HB3	1.91	0.52
2:Pl:82:ARG:HH12	2:Pl:138:GLY:HA2	1.73	0.52
2:Pr:140:LEU:HD11	2:Pr:151:GLN:HG2	1.89	0.52
2:RJ:43:ALA:O	2:RJ:162:TRP:NE1	2.40	0.52
1:K4:480:ARG:O	1:K4:482:ASP:N	2.42	0.52
1:L3:3:LEU:HD21	1:L3:9:GLU:HB2	1.91	0.52
1:L3:90:LYS:NZ	1:L3:190:ASP:OD1	2.42	0.52
1:L5:3:LEU:HD11	1:L5:9:GLU:HB2	1.91	0.52
1:L7:166:ASN:OD1	1:L7:166:ASN:N	2.42	0.52
1:LR:614:THR:C	1:LR:616:SER:H	2.17	0.52
1:LS:66:MET:HG2	1:LS:468:VAL:HG21	1.91	0.52
1:LU:645:THR:OG1	1:LV:629:ILE:O	2.27	0.52
1:LV:455:LYS:HB3	1:LV:470:LEU:HD13	1.91	0.52
1:LY:41:ILE:HD11	1:LY:361:PHE:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LY:135:ASP:OD1	1:LY:136:ALA:N	2.42	0.52
1:LZ:31:GLY:HA3	1:LZ:64:TYR:CD2	2.44	0.52
1:La:494:TYR:OH	1:Lb:569:LYS:NZ	2.42	0.52
1:Lw:480:ARG:C	1:Lw:482:ASP:H	2.17	0.52
1:M5:228:GLY:HA2	1:M5:345:SER:HB3	1.90	0.52
1:M7:64:TYR:OH	1:M7:381:GLU:OE2	2.24	0.52
1:M7:202:GLU:OE1	1:M7:203:ALA:N	2.42	0.52
1:MV:284:ARG:HG2	1:MV:289:ILE:HD13	1.91	0.52
1:MX:116:ILE:N	1:MX:129:GLY:O	2.43	0.52
1:Mb:66:MET:HG2	1:Mb:468:VAL:HG21	1.91	0.52
1:Mc:135:ASP:HB3	1:Mc:139:LYS:HB2	1.90	0.52
1:Mx:489:MET:HE1	1:Mz:575:LEU:HD13	1.92	0.52
1:NW:510:ARG:HG2	1:NW:511:GLN:H	1.74	0.52
1:Nb:2:THR:OG1	1:Nb:3:LEU:N	2.42	0.52
1:Ne:104:SER:HB2	1:Ne:181:VAL:HB	1.90	0.52
1:Ne:108:SER:OG	1:Ne:137:ASP:OD2	2.27	0.52
1:Ng:480:ARG:C	1:Ng:482:ASP:H	2.18	0.52
1:Nh:211:GLN:OE1	1:Nh:329:ASN:ND2	2.41	0.52
1:Ni:400:ARG:HD3	1:Ni:403:CYS:SG	2.48	0.52
2:OD:22:GLN:HB2	2:OD:116:TYR:HE2	1.73	0.52
2:OI:140:LEU:HB3	2:Rn:41:LEU:HB2	1.90	0.52
2:OJ:3:VAL:HG12	2:PI:97:ASN:HA	1.92	0.52
2:Oi:49:ILE:HG12	2:Oi:60:VAL:HG12	1.90	0.52
2:Ok:52:GLY:HA2	2:Ok:57:LYS:HB3	1.91	0.52
2:Op:154:GLU:OE1	2:Op:154:GLU:N	2.43	0.52
2:PG:23:VAL:HG11	2:PG:39:THR:HG21	1.91	0.52
2:PG:55:ASN:HA	2:Pm:19:ASN:HD22	1.73	0.52
2:PI:39:THR:HG22	2:PI:71:VAL:HG13	1.91	0.52
2:Pi:69:TRP:HB2	2:Pi:159:LEU:HD23	1.91	0.52
2:Rt:43:ALA:O	2:Rt:162:TRP:NE1	2.40	0.52
1:K6:103:ILE:HD13	1:K6:182:ILE:HG22	1.90	0.52
1:K7:209:ASP:N	1:K7:209:ASP:OD1	2.42	0.52
1:K7:639:THR:HB	1:K8:624:VAL:HG12	1.91	0.52
1:L0:410:PRO:O	1:L0:413:THR:HG22	2.09	0.52
1:L4:480:ARG:O	1:L4:484:VAL:HG12	2.09	0.52
1:LU:379:ALA:O	1:LU:381:GLU:N	2.39	0.52
1:LU:400:ARG:HD3	1:LU:403:CYS:SG	2.50	0.52
1:LY:57:PRO:HG3	1:LY:65:PHE:CD1	2.44	0.52
1:LZ:43:GLN:OE1	1:LZ:79:ARG:NH1	2.41	0.52
1:Lb:169:ALA:HB2	1:Lb:184:LEU:HD11	1.91	0.52
1:M1:417:ILE:H	1:M1:417:ILE:HD13	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M3:104:SER:HB2	1:M3:181:VAL:HB	1.91	0.52
1:M7:311:ILE:HB	1:M7:327:ALA:HB2	1.91	0.52
1:M8:57:PRO:HG3	1:M8:65:PHE:CD1	2.44	0.52
1:MR:379:ALA:O	1:MR:381:GLU:N	2.41	0.52
1:MR:518:TYR:HD2	1:Mw:5:SER:HA	1.75	0.52
1:MY:642:PHE:CZ	1:MZ:564:ILE:HD11	2.44	0.52
1:Mz:511:GLN:NE2	1:Mz:515:ASP:OD1	2.43	0.52
1:NV:108:SER:O	1:NV:177:GLY:HA2	2.10	0.52
1:NV:164:GLY:H	1:NV:167:TRP:CD1	2.27	0.52
1:NW:107:GLY:HA3	1:NW:110:TYR:CE2	2.44	0.52
1:NW:429:TRP:CZ2	1:NW:441:PHE:HB2	2.45	0.52
1:Nd:510:ARG:HG2	1:Nd:511:GLN:H	1.73	0.52
1:Ne:33:PHE:HA	1:Ne:61:THR:HG23	1.91	0.52
1:Nh:455:LYS:HB2	1:Nh:470:LEU:HD13	1.89	0.52
1:Nj:376:GLY:HA3	1:Nj:471:ALA:HB3	1.92	0.52
1:Nv:110:TYR:H	1:Nv:138:GLY:HA3	1.72	0.52
2:OK:23:VAL:HG11	2:OK:39:THR:HG21	1.91	0.52
2:PE:3:VAL:HG12	2:RD:97:ASN:HA	1.89	0.52
2:PE:19:ASN:OD1	2:PE:19:ASN:N	2.34	0.52
2:PN:98:GLU:CD	2:PN:98:GLU:H	2.17	0.52
2:Ph:39:THR:HG22	2:Ph:71:VAL:HG13	1.92	0.52
2:RC:140:LEU:HD13	2:RC:153:PHE:HB3	1.91	0.52
2:RD:82:ARG:NH1	2:RD:138:GLY:HA2	2.24	0.52
2:Rq:70:THR:HG22	2:Rq:156:THR:HB	1.91	0.52
1:K0:23:SER:OG	1:K0:74:TYR:O	2.27	0.52
1:K0:400:ARG:HD3	1:K0:403:CYS:SG	2.50	0.52
1:K2:41:ILE:HD11	1:K2:361:PHE:HB3	1.91	0.52
1:K3:480:ARG:C	1:K3:482:ASP:H	2.18	0.52
1:K5:109:ASN:N	1:K5:138:GLY:HA3	2.25	0.52
1:L0:485:SER:OG	1:L0:486:GLN:N	2.42	0.52
1:L1:470:LEU:O	1:L1:474:ILE:HG12	2.10	0.52
1:L3:571:ARG:NH2	1:L3:587:GLU:OE1	2.42	0.52
1:L4:222:VAL:HG13	1:L4:325:ALA:HB2	1.91	0.52
1:L7:94:PRO:HD3	1:L7:222:VAL:O	2.09	0.52
1:LS:571:ARG:NH2	1:LS:587:GLU:OE1	2.36	0.52
1:LW:378:CYS:HB2	1:LW:410:PRO:HA	1.90	0.52
1:LZ:383:LEU:HD11	1:LZ:436:TYR:CE2	2.44	0.52
1:Lc:116:ILE:HD13	1:Lc:171:ILE:HG12	1.91	0.52
1:Lx:159:GLU:OE2	1:Lx:166:ASN:ND2	2.43	0.52
1:M2:455:LYS:HB3	1:M2:470:LEU:HD13	1.91	0.52
1:M5:109:ASN:N	1:M5:138:GLY:HA3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M6:645:THR:OG1	1:M7:629:ILE:O	2.28	0.52
1:MU:459:ASP:OD2	1:MU:466:ARG:NH1	2.42	0.52
1:MW:135:ASP:HB3	1:MW:139:LYS:HB2	1.90	0.52
1:MY:230:LEU:HD21	1:MY:285:ARG:HD2	1.90	0.52
1:Mb:617:VAL:HG22	1:Mb:622:GLU:HB2	1.91	0.52
1:Mv:199:GLU:OE2	1:Mv:200:ASN:ND2	2.29	0.52
1:Mx:228:GLY:HA2	1:Mx:345:SER:HB3	1.91	0.52
1:Mz:44:VAL:HG11	1:Mz:50:LEU:HB2	1.90	0.52
1:NV:66:MET:HG2	1:NV:468:VAL:HG21	1.91	0.52
1:NV:467:TRP:CZ3	1:NW:199:GLU:HB2	2.44	0.52
1:NZ:28:ALA:HB2	1:NZ:370:VAL:HG21	1.91	0.52
1:Nb:490:SER:OG	1:Nb:538:ASP:OD2	2.23	0.52
1:Nc:455:LYS:HD2	1:Nc:502:VAL:HG22	1.91	0.52
1:Nf:41:ILE:HD11	1:Nf:361:PHE:HB3	1.90	0.52
1:Nj:134:VAL:HG12	1:Nj:140:ILE:HA	1.92	0.52
1:Nv:135:ASP:HB3	1:Nv:139:LYS:HB2	1.91	0.52
1:Nx:575:LEU:HB3	1:Nx:577:ASN:HD22	1.74	0.52
2:OE:80:ASP:O	2:OE:84:LYS:HG3	2.09	0.52
2:OO:95:GLN:HG3	2:Rt:64:ARG:NH1	2.24	0.52
2:Ok:97:ASN:HB3	2:Rl:2:PHE:HB3	1.92	0.52
2:PJ:73:VAL:HB	2:PJ:153:PHE:CE1	2.44	0.52
2:Pk:46:VAL:HG22	2:Pk:64:ARG:HB3	1.90	0.52
2:RN:14:ASP:CG	2:RN:17:ARG:HH21	2.16	0.52
2:RR:82:ARG:O	2:RR:86:VAL:HG13	2.09	0.52
1:K4:414:VAL:HG23	1:K4:422:ALA:HB1	1.92	0.52
1:K6:108:SER:OG	1:K6:109:ASN:OD1	2.18	0.52
1:K6:256:PRO:HG2	1:K6:339:THR:H	1.75	0.52
1:L1:29:LEU:O	1:L1:80:VAL:HA	2.10	0.52
1:L7:400:ARG:HD3	1:L7:403:CYS:SG	2.49	0.52
1:L7:455:LYS:HG3	1:L7:502:VAL:HG13	1.92	0.52
1:LQ:510:ARG:HG2	1:LQ:511:GLN:H	1.74	0.52
1:LW:494:TYR:HE2	1:LW:528:THR:HG21	1.74	0.52
1:Lw:116:ILE:HG12	1:Lw:130:LYS:HA	1.91	0.52
1:Lx:617:VAL:HG22	1:Lx:622:GLU:HB2	1.92	0.52
1:M0:119:LYS:HG2	1:M0:124:ASP:HA	1.92	0.52
1:M1:623:PHE:HD2	1:Mz:638:ILE:HG23	1.75	0.52
1:M3:654:LEU:HD22	1:M4:605:ARG:HD3	1.90	0.52
1:M4:369:ASP:OD1	1:M4:369:ASP:N	2.42	0.52
1:MR:246:LYS:HB2	1:MR:250:ALA:HB2	1.92	0.52
1:MS:494:TYR:HE2	1:MS:528:THR:HG21	1.75	0.52
1:MX:44:VAL:HG11	1:MX:50:LEU:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MY:26:THR:HA	1:MY:77:ASP:O	2.09	0.52
1:Mb:538:ASP:OD1	1:Mb:538:ASP:N	2.42	0.52
1:Mc:2:THR:OG1	1:Mc:3:LEU:N	2.35	0.52
1:Md:107:GLY:HA3	1:Md:110:TYR:CE2	2.44	0.52
1:Ne:494:TYR:HE2	1:Ne:528:THR:HG21	1.75	0.52
1:Nz:413:THR:HG23	1:Nz:425:ASN:HB3	1.91	0.52
2:OE:120:ALA:HB2	2:Oi:99:ILE:O	2.08	0.52
2:PO:137:VAL:HA	2:PO:155:VAL:HG22	1.92	0.52
2:RO:104:PRO:O	2:RO:108:LYS:HB2	2.10	0.52
2:Rk:82:ARG:HH12	2:Rk:138:GLY:HA2	1.74	0.52
1:K5:151:ILE:O	1:K5:155:LYS:HG2	2.10	0.52
1:K8:26:THR:HA	1:K8:77:ASP:O	2.10	0.52
1:K8:90:LYS:NZ	1:K8:190:ASP:OD1	2.38	0.52
1:L5:44:VAL:HG11	1:L5:50:LEU:HB2	1.89	0.52
1:LU:368:VAL:O	1:LU:400:ARG:NH2	2.43	0.52
1:LV:238:ILE:O	1:LV:335:SER:HA	2.09	0.52
1:LW:456:TYR:HB3	1:LW:503:ILE:HG23	1.91	0.52
1:M1:119:LYS:HE3	1:M1:122:SER:HA	1.91	0.52
1:M1:463:ASP:OD1	1:M2:317:LYS:NZ	2.43	0.52
1:M5:432:ALA:HB2	1:M5:442:ASN:HB2	1.91	0.52
1:M9:239:VAL:HG22	1:M9:280:ALA:HB3	1.92	0.52
1:MS:36:GLY:O	1:MS:82:ARG:NH1	2.35	0.52
1:MS:237:GLU:OE1	1:MS:284:ARG:NH1	2.36	0.52
1:MU:480:ARG:C	1:MU:482:ASP:H	2.18	0.52
1:MW:22:ASN:HB2	1:MW:75:GLY:O	2.10	0.52
1:MZ:484:VAL:HG13	1:MZ:485:SER:H	1.75	0.52
1:Ma:143:ILE:HD12	1:Ma:145:ILE:HD11	1.92	0.52
1:Mc:35:TRP:HB2	1:Mc:230:LEU:HD12	1.92	0.52
1:Mc:101:TYR:OH	1:Mc:216:LYS:O	2.28	0.52
1:Mw:151:ILE:O	1:Mw:155:LYS:HG2	2.09	0.52
1:Mw:379:ALA:HA	1:Mw:411:ARG:HB2	1.92	0.52
1:NW:49:ASP:O	1:NW:53:THR:OG1	2.27	0.52
1:Na:40:GLN:H	1:Na:81:VAL:HG23	1.75	0.52
1:Na:378:CYS:HB2	1:Na:410:PRO:HA	1.91	0.52
1:Nb:105:THR:HB	1:Nb:181:VAL:H	1.74	0.52
1:Nd:394:VAL:HG11	1:Nd:443:ILE:HD12	1.91	0.52
1:Ne:406:LEU:HD13	1:Ne:475:ALA:HB2	1.90	0.52
1:Nf:451:ASP:OD1	1:Nf:452:GLY:N	2.43	0.52
1:Nv:332:GLU:OE1	1:Nv:332:GLU:N	2.26	0.52
2:OC:4:ASP:OD1	2:OC:4:ASP:N	2.32	0.52
2:OM:23:VAL:HG11	2:OM:39:THR:HG21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Om:128:GLU:OE1	2:Om:130:LYS:NZ	2.43	0.52
2:PL:56:ARG:HB3	2:PL:56:ARG:HH11	1.74	0.52
2:Ph:64:ARG:HH21	2:RC:94:GLY:H	1.56	0.52
2:RD:68:ASP:OD1	2:RD:68:ASP:N	2.43	0.52
1:K0:432:ALA:HB2	1:K0:440:ASN:HD22	1.75	0.52
1:K4:332:GLU:OE1	1:K4:332:GLU:N	2.42	0.52
1:K8:269:PHE:HE2	1:K8:294:VAL:HG23	1.75	0.52
1:L1:427:VAL:HG13	1:L1:520:GLU:HG3	1.91	0.52
1:L2:101:TYR:OH	1:L2:216:LYS:O	2.28	0.52
1:LS:654:LEU:HD13	1:LU:605:ARG:HD3	1.92	0.52
1:LU:559:MET:HG3	1:LU:560:LEU:N	2.25	0.52
1:LY:70:ASN:OD1	1:LY:457:GLN:NE2	2.31	0.52
1:La:39:PHE:CE1	1:La:86:ARG:HD2	2.45	0.52
1:La:110:TYR:H	1:La:138:GLY:HA3	1.75	0.52
1:Ld:467:TRP:CH2	1:Le:199:GLU:HB3	2.45	0.52
1:Lv:549:ASP:OD2	1:MQ:271:TYR:OH	2.19	0.52
1:Lx:453:ASN:HB2	1:Lx:506:ALA:HB3	1.90	0.52
1:M7:32:LYS:NZ	1:M7:60:GLU:OE2	2.37	0.52
1:M7:103:ILE:HD13	1:M7:182:ILE:HG22	1.92	0.52
1:M8:272:GLY:O	1:M8:274:GLN:NE2	2.41	0.52
1:M8:485:SER:OG	1:M8:486:GLN:N	2.43	0.52
1:MV:400:ARG:HB3	1:MV:400:ARG:HH11	1.75	0.52
1:MW:105:THR:HB	1:MW:181:VAL:H	1.75	0.52
1:MW:644:ALA:O	1:MW:645:THR:OG1	2.28	0.52
1:MX:494:TYR:CZ	1:MY:569:LYS:HD3	2.44	0.52
1:MX:511:GLN:NE2	1:MX:515:ASP:OD1	2.42	0.52
1:MZ:601:ILE:HD12	1:MZ:604:TYR:HB3	1.91	0.52
1:Mb:654:LEU:HD13	1:Mc:605:ARG:HD3	1.92	0.52
1:Mc:23:SER:O	1:Mc:76:ASN:HB2	2.09	0.52
1:Mw:11:LYS:HG2	1:Mw:13:THR:HG23	1.92	0.52
1:NW:238:ILE:HG12	1:NW:281:ILE:HG23	1.92	0.52
1:Na:118:VAL:HG22	1:Na:169:ALA:HB2	1.92	0.52
1:Ne:151:ILE:O	1:Ne:155:LYS:HG2	2.08	0.52
1:Nf:131:ILE:HG12	1:Nf:143:ILE:HG22	1.90	0.52
1:Nh:549:ASP:O	1:Nh:550:ARG:NE	2.41	0.52
1:Nw:104:SER:HG	1:Nw:183:THR:HG1	1.57	0.52
1:Nx:411:ARG:O	1:Nx:415:VAL:HB	2.09	0.52
2:OE:30:GLN:O	2:OE:30:GLN:NE2	2.37	0.52
2:Oh:39:THR:HG22	2:Oh:71:VAL:HG13	1.92	0.52
2:Or:19:ASN:OD1	2:Or:19:ASN:N	2.39	0.52
2:PF:49:ILE:HD12	2:Pl:150:ILE:HG22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PF:54:MET:HE3	2:Pl:20:LEU:HA	1.91	0.52
2:Pj:120:ALA:HB2	2:RD:99:ILE:O	2.09	0.52
2:Rk:24:GLU:OE1	2:Rk:33:THR:OG1	2.21	0.52
1:K1:70:ASN:ND2	1:K1:457:GLN:OE1	2.41	0.52
1:K3:561:LYS:HZ1	1:LW:12:GLU:CD	2.17	0.52
1:K4:94:PRO:HD3	1:K4:222:VAL:O	2.10	0.52
1:K4:526:THR:OG1	1:K5:366:GLU:OE2	2.18	0.52
1:K9:296:SER:O	1:K9:311:ILE:HG13	2.10	0.52
1:L0:116:ILE:HD11	1:L0:131:ILE:HG13	1.90	0.52
1:L0:281:ILE:HG13	1:L0:295:LEU:HD12	1.90	0.52
1:L4:549:ASP:OD2	1:MY:271:TYR:OH	2.15	0.52
1:L6:650:ASP:C	1:L6:652:ASP:H	2.17	0.52
1:L7:47:GLU:OE1	1:L7:461:TYR:OH	2.22	0.52
1:LQ:480:ARG:NH2	1:LQ:496:ARG:O	2.42	0.52
1:LV:26:THR:HA	1:LV:77:ASP:O	2.10	0.52
1:LV:66:MET:HG2	1:LV:468:VAL:HG21	1.92	0.52
1:LW:247:GLY:HA2	1:LW:266:LYS:HG3	1.92	0.52
1:LZ:332:GLU:OE1	1:LZ:332:GLU:N	2.38	0.52
1:La:198:ILE:HD11	1:La:225:LEU:HD11	1.92	0.52
1:Lx:26:THR:HA	1:Lx:77:ASP:O	2.09	0.52
1:M3:467:TRP:CZ3	1:M4:199:GLU:HB2	2.44	0.52
1:M7:430:ARG:NH2	1:M7:443:ILE:O	2.42	0.52
1:M9:455:LYS:HG3	1:M9:502:VAL:HG13	1.92	0.52
1:MR:332:GLU:OE1	1:MR:332:GLU:N	2.36	0.52
1:MR:546:SER:HA	1:Mw:304:ILE:HG21	1.91	0.52
1:MS:639:THR:HB	1:MU:624:VAL:HG12	1.90	0.52
1:MU:269:PHE:CZ	1:MU:292:SER:HB2	2.45	0.52
1:MU:440:ASN:ND2	1:MU:442:ASN:HB2	2.24	0.52
1:MU:457:GLN:HG2	1:MU:458:TYR:O	2.10	0.52
1:MX:484:VAL:HG13	1:MX:485:SER:H	1.75	0.52
1:Ma:23:SER:O	1:Ma:76:ASN:HB2	2.08	0.52
1:Mc:104:SER:OG	1:Mc:183:THR:OG1	2.27	0.52
1:Md:34:GLN:NE2	1:Md:230:LEU:HG	2.25	0.52
1:Md:350:VAL:HG13	1:Md:354:ASP:HB2	1.92	0.52
1:Me:166:ASN:OD1	1:Me:166:ASN:N	2.43	0.52
1:Mx:70:ASN:OD1	1:Mx:457:GLN:NE2	2.38	0.52
1:Mx:296:SER:O	1:Mx:311:ILE:HG13	2.09	0.52
1:Mz:490:SER:OG	1:Mz:538:ASP:OD2	2.15	0.52
1:NV:585:ARG:HH21	1:NV:609:ASP:HB3	1.74	0.52
1:NX:403:CYS:O	1:NX:558:ASN:ND2	2.40	0.52
1:Nf:365:ARG:HA	1:Nf:400:ARG:NH2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OD:4:ASP:OD2	2:PC:97:ASN:ND2	2.43	0.52
2:OF:19:ASN:OD1	2:OF:19:ASN:N	2.40	0.52
2:ON:148:ASN:ND2	2:Rr:47:GLU:OE1	2.32	0.52
2:Oi:72:THR:HB	2:Oi:154:GLU:HG2	1.92	0.52
2:Pi:24:GLU:OE1	2:Pi:114:ARG:NH2	2.30	0.52
2:Pn:136:ASN:HB3	2:Pn:156:THR:HG23	1.91	0.52
2:RH:37:LYS:NZ	2:RH:152:THR:OG1	2.42	0.52
2:RJ:56:ARG:HB3	2:RJ:56:ARG:HH11	1.75	0.52
2:Rp:39:THR:HG22	2:Rp:71:VAL:HG22	1.92	0.52
1:K3:264:THR:O	1:K3:266:LYS:N	2.43	0.52
1:K4:23:SER:OG	1:K4:74:TYR:O	2.27	0.52
1:K4:490:SER:O	1:K4:496:ARG:NH1	2.43	0.52
1:K5:137:ASP:OD1	1:K5:137:ASP:N	2.37	0.52
1:K8:43:GLN:HE21	1:K8:45:THR:HG22	1.75	0.52
1:K8:408:SER:HB2	1:K8:471:ALA:HB2	1.92	0.52
1:L1:400:ARG:NH1	1:L1:402:ASP:OD1	2.42	0.52
1:L2:406:LEU:HD22	1:L2:474:ILE:HG13	1.91	0.52
1:L7:512:ALA:O	1:L7:516:ARG:HG3	2.10	0.52
1:LS:455:LYS:HZ3	1:LS:473:ASP:CG	2.17	0.52
1:LU:76:ASN:O	1:LU:76:ASN:ND2	2.43	0.52
1:LU:253:PRO:HG2	1:LU:255:TYR:CE2	2.45	0.52
1:LV:421:ARG:HG3	1:LV:425:ASN:HD21	1.75	0.52
1:LY:560:LEU:HD21	1:LY:601:ILE:HD11	1.91	0.52
1:Lb:22:ASN:N	1:Lb:22:ASN:OD1	2.42	0.52
1:Lc:24:THR:O	1:Lc:483:ASN:ND2	2.33	0.52
1:Lv:451:ASP:OD1	1:Lv:474:ILE:HD13	2.10	0.52
1:Lw:57:PRO:HG3	1:Lw:65:PHE:CD1	2.44	0.52
1:Lz:394:VAL:HG11	1:Lz:443:ILE:HD12	1.90	0.52
1:M8:467:TRP:HZ3	1:M9:199:GLU:HB2	1.75	0.52
1:MS:480:ARG:O	1:MS:484:VAL:HG12	2.10	0.52
1:MV:332:GLU:H	1:MV:332:GLU:CD	2.17	0.52
1:MV:518:TYR:CE2	1:MV:539:LYS:HD2	2.45	0.52
1:MZ:101:TYR:O	1:MZ:216:LYS:NZ	2.40	0.52
1:Me:291:GLN:OE1	1:Me:320:SER:OG	2.27	0.52
1:Mz:41:ILE:HD11	1:Mz:361:PHE:HB3	1.91	0.52
1:NV:454:TYR:HB3	1:NV:467:TRP:CD1	2.45	0.52
1:NX:389:VAL:O	1:NX:393:VAL:HG23	2.10	0.52
1:NZ:538:ASP:O	1:NZ:550:ARG:HA	2.08	0.52
1:Na:29:LEU:O	1:Na:80:VAL:HA	2.10	0.52
1:Ng:118:VAL:HB	1:Ng:126:GLU:HB3	1.91	0.52
1:Nx:246:LYS:HB2	1:Nx:250:ALA:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nz:450:ILE:HG12	1:Nz:522:ILE:HG23	1.92	0.52
2:OE:114:ARG:HG2	2:OE:126:GLU:HG3	1.91	0.52
2:OI:82:ARG:NH1	2:OI:138:GLY:HA2	2.24	0.52
2:ON:95:GLN:HG3	2:Rs:64:ARG:NH1	2.25	0.52
2:ON:104:PRO:HA	2:ON:107:TYR:CE2	2.45	0.52
2:Op:19:ASN:OD1	2:Op:19:ASN:N	2.33	0.52
2:PN:104:PRO:HA	2:PN:107:TYR:CE2	2.45	0.52
2:Pm:67:ASP:OD1	2:Pm:67:ASP:N	2.41	0.52
2:Pn:72:THR:HG22	2:Pn:154:GLU:HG3	1.92	0.52
2:RJ:136:ASN:HB3	2:RJ:156:THR:HG23	1.92	0.52
2:RS:67:ASP:OD1	2:RS:67:ASP:N	2.40	0.52
1:K0:379:ALA:HB2	1:K0:469:PRO:HD3	1.92	0.52
1:K3:459:ASP:OD2	1:K3:466:ARG:NH1	2.39	0.52
1:K4:137:ASP:OD1	1:K4:137:ASP:N	2.39	0.52
1:K6:133:GLU:OE1	1:K6:142:LYS:HD3	2.10	0.52
1:L4:389:VAL:O	1:L4:393:VAL:HG23	2.10	0.52
1:L6:121:VAL:HG13	1:L6:166:ASN:HB3	1.91	0.52
1:L6:273:PRO:HB3	1:L6:278:GLN:HB2	1.90	0.52
1:L8:400:ARG:HD3	1:L8:403:CYS:SG	2.50	0.52
1:LR:198:ILE:HD11	1:LR:225:LEU:HD11	1.91	0.52
1:LS:131:ILE:HD13	1:LS:140:ILE:HG21	1.91	0.52
1:LV:332:GLU:H	1:LV:332:GLU:CD	2.18	0.52
1:LV:494:TYR:HE2	1:LV:528:THR:HG21	1.76	0.52
1:LY:40:GLN:H	1:LY:81:VAL:HG23	1.74	0.52
1:Lv:392:HIS:O	1:Lv:395:SER:OG	2.21	0.52
1:Lw:134:VAL:HG12	1:Lw:140:ILE:HG22	1.92	0.52
1:Lx:159:GLU:OE1	1:Lx:167:TRP:NE1	2.43	0.52
1:M3:497:GLY:O	1:M3:534:VAL:HA	2.10	0.52
1:M6:406:LEU:HD13	1:M6:475:ALA:HB2	1.92	0.52
1:MS:107:GLY:HA3	1:MS:110:TYR:CE2	2.45	0.52
1:MS:135:ASP:OD1	1:MS:136:ALA:N	2.42	0.52
1:Mb:467:TRP:CZ3	1:Mc:199:GLU:HB2	2.45	0.52
1:Mv:392:HIS:O	1:Mv:395:SER:OG	2.22	0.52
1:Mv:527:GLY:HA2	1:Mv:533:TYR:CD2	2.45	0.52
1:Mw:521:ALA:HB1	1:Mw:541:ALA:HA	1.91	0.52
1:NV:107:GLY:HA3	1:NV:110:TYR:CE2	2.44	0.52
1:NW:154:ALA:HA	1:NW:157:VAL:HG22	1.91	0.52
1:Nb:241:LYS:NZ	1:Nb:274:GLN:O	2.37	0.52
1:Nc:332:GLU:CD	1:Nc:332:GLU:H	2.18	0.52
1:Nc:455:LYS:HB2	1:Nc:470:LEU:HD13	1.92	0.52
1:Ne:116:ILE:HD12	1:Ne:171:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nh:480:ARG:O	1:Nh:484:VAL:HG12	2.10	0.52
1:Nj:166:ASN:OD1	1:Nj:166:ASN:N	2.43	0.52
1:Nx:209:ASP:OD1	1:Nx:209:ASP:N	2.43	0.52
1:Nz:121:VAL:HG13	1:Nz:166:ASN:HB3	1.91	0.52
2:OI:19:ASN:OD1	2:OI:19:ASN:N	2.33	0.52
2:OM:136:ASN:ND2	2:OM:136:ASN:O	2.42	0.52
2:Oi:82:ARG:NH1	2:Oi:138:GLY:HA2	2.25	0.52
2:Ok:67:ASP:OD1	2:Ok:67:ASP:N	2.41	0.52
2:Ot:56:ARG:HB3	2:Ot:56:ARG:HH11	1.74	0.52
2:PE:23:VAL:HG13	2:PE:36:CYS:SG	2.49	0.52
2:PE:131:GLY:O	2:PE:159:LEU:HA	2.10	0.52
2:PF:25:ILE:O	2:PF:26:SER:OG	2.25	0.52
2:PJ:23:VAL:HG11	2:PJ:39:THR:HG21	1.91	0.52
2:PL:56:ARG:HB3	2:PL:56:ARG:NH1	2.25	0.52
2:Ph:94:GLY:HA3	2:Ph:100:THR:OG1	2.10	0.52
2:RD:58:ILE:HD12	2:RE:6:VAL:HG21	1.91	0.52
2:RE:39:THR:HG22	2:RE:71:VAL:HG13	1.92	0.52
1:K0:373:PHE:HB2	1:K0:405:VAL:HG22	1.92	0.51
1:K3:26:THR:HA	1:K3:77:ASP:O	2.09	0.51
1:K4:450:ILE:HG22	1:K4:541:ALA:HB2	1.92	0.51
1:K4:654:LEU:HD13	1:K5:605:ARG:HD3	1.91	0.51
1:K5:455:LYS:HZ1	1:K5:457:GLN:HB2	1.74	0.51
1:K6:269:PHE:CE2	1:K6:280:ALA:HB1	2.44	0.51
1:K7:430:ARG:HG3	1:K7:522:ILE:HD11	1.90	0.51
1:K7:481:THR:HG23	1:K7:496:ARG:HD3	1.92	0.51
1:K8:441:PHE:CZ	1:K8:443:ILE:HD11	2.44	0.51
1:L3:383:LEU:HD11	1:L3:436:TYR:CD1	2.45	0.51
1:LQ:35:TRP:HB2	1:LQ:230:LEU:HD12	1.92	0.51
1:Le:382:SER:HB2	1:Le:385:THR:HG22	1.92	0.51
1:Lv:450:ILE:O	1:Lv:523:ASN:ND2	2.43	0.51
1:Lv:456:TYR:HB3	1:Lv:503:ILE:HG23	1.90	0.51
1:M0:198:ILE:HD11	1:M0:225:LEU:HD11	1.92	0.51
1:M0:480:ARG:C	1:M0:482:ASP:H	2.18	0.51
1:M3:400:ARG:HB3	1:M3:400:ARG:HH11	1.75	0.51
1:M4:135:ASP:OD1	1:M4:136:ALA:N	2.43	0.51
1:M4:514:ARG:NH1	1:M5:366:GLU:OE2	2.43	0.51
1:M5:252:LEU:HG	1:M5:263:SER:HB3	1.93	0.51
1:M7:12:GLU:OE2	1:Mc:561:LYS:NZ	2.27	0.51
1:M9:601:ILE:HG23	1:M9:629:ILE:HD12	1.92	0.51
1:MR:110:TYR:H	1:MR:138:GLY:CA	2.22	0.51
1:MV:485:SER:OG	1:MV:486:GLN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MX:126:GLU:OE2	1:MX:128:GLU:HB2	2.10	0.51
1:Mb:596:LYS:HE2	1:Mb:602:TYR:O	2.10	0.51
1:Md:94:PRO:HD3	1:Md:222:VAL:O	2.10	0.51
1:Mw:571:ARG:NH2	1:Mw:587:GLU:OE1	2.43	0.51
1:Mz:432:ALA:HB2	1:Mz:440:ASN:HD22	1.75	0.51
1:NX:110:TYR:H	1:NX:138:GLY:HA3	1.75	0.51
1:NZ:239:VAL:HG22	1:NZ:280:ALA:HB3	1.91	0.51
1:Ni:41:ILE:HD11	1:Ni:361:PHE:HB3	1.91	0.51
1:Ni:362:PHE:HB3	1:Ni:373:PHE:HE1	1.74	0.51
1:Nv:467:TRP:CZ3	1:Nw:199:GLU:HB2	2.44	0.51
1:Nx:107:GLY:HA3	1:Nx:110:TYR:HE2	1.75	0.51
1:Nx:459:ASP:OD2	1:Nx:466:ARG:NH1	2.43	0.51
2:PJ:114:ARG:HG2	2:PJ:126:GLU:HG3	1.91	0.51
2:Pj:107:TYR:O	2:Pj:133:TRP:HB3	2.10	0.51
2:Ps:2:PHE:HB3	2:Rr:97:ASN:HB3	1.92	0.51
2:RF:23:VAL:HG11	2:RF:39:THR:HG21	1.92	0.51
2:RG:23:VAL:HG11	2:RG:39:THR:HG21	1.91	0.51
2:RG:49:ILE:O	2:RG:49:ILE:HG12	2.09	0.51
2:RL:91:ILE:HG22	2:RL:107:TYR:HB3	1.92	0.51
1:K1:379:ALA:HB2	1:K1:454:TYR:HE2	1.75	0.51
1:K2:368:VAL:HG12	1:K2:370:VAL:HG13	1.93	0.51
1:K7:612:ASN:N	1:K7:612:ASN:OD1	2.44	0.51
1:L1:430:ARG:HG3	1:L1:522:ILE:HD11	1.92	0.51
1:L4:104:SER:OG	1:L4:183:THR:OG1	2.27	0.51
1:L5:417:ILE:H	1:L5:417:ILE:HD13	1.75	0.51
1:L7:211:GLN:OE1	1:L7:329:ASN:ND2	2.43	0.51
1:LR:620:ARG:HB2	1:LR:622:GLU:HG3	1.92	0.51
1:LX:100:GLU:HG2	1:LX:186:LYS:O	2.10	0.51
1:Lc:110:TYR:H	1:Lc:138:GLY:HA3	1.75	0.51
1:Lz:109:ASN:OD1	1:Lz:109:ASN:N	2.42	0.51
1:M5:486:GLN:NE2	2:PK:11:GLU:OE1	2.42	0.51
1:M6:118:VAL:HB	1:M6:126:GLU:HB3	1.92	0.51
1:M7:24:THR:O	1:M7:483:ASN:ND2	2.28	0.51
1:M7:253:PRO:HG2	1:M7:255:TYR:CE1	2.45	0.51
1:MS:400:ARG:HD3	1:MS:403:CYS:SG	2.50	0.51
1:MS:644:ALA:O	1:MS:645:THR:OG1	2.28	0.51
1:MX:26:THR:HA	1:MX:77:ASP:O	2.10	0.51
1:Ma:392:HIS:O	1:Ma:395:SER:OG	2.20	0.51
1:Mb:143:ILE:HD12	1:Mb:145:ILE:HD11	1.91	0.51
1:Mc:647:THR:O	1:Md:630:GLN:NE2	2.43	0.51
1:Md:485:SER:OG	1:Md:486:GLN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mw:134:VAL:HG12	1:Mw:140:ILE:HG22	1.90	0.51
1:NW:410:PRO:O	1:NW:413:THR:HG22	2.10	0.51
1:NW:569:LYS:HB2	1:Nv:8:ILE:HD11	1.92	0.51
1:NX:107:GLY:HA3	1:NX:110:TYR:CE2	2.46	0.51
1:NZ:485:SER:OG	1:NZ:486:GLN:N	2.42	0.51
1:NZ:576:ASN:HD22	1:NZ:618:ILE:HG12	1.75	0.51
1:Na:609:ASP:OD1	1:Na:611:THR:OG1	2.29	0.51
1:Nv:240:SER:OG	1:Nv:243:ASP:OD1	2.28	0.51
1:Nw:31:GLY:HA3	1:Nw:64:TYR:CD2	2.44	0.51
1:Nw:371:GLN:OE1	1:Nw:562:THR:OG1	2.16	0.51
2:OC:117:ALA:HB2	2:OC:122:THR:HB	1.92	0.51
2:OD:99:ILE:O	2:RT:120:ALA:HB2	2.10	0.51
2:Os:3:VAL:HG12	2:Pr:97:ASN:HA	1.92	0.51
2:Ot:39:THR:HG22	2:Ot:71:VAL:HG22	1.92	0.51
2:RC:52:GLY:HA2	2:RC:57:LYS:HB2	1.92	0.51
2:RD:85:PHE:CD2	2:RD:155:VAL:HG11	2.45	0.51
2:RD:107:TYR:O	2:RD:133:TRP:HB3	2.10	0.51
2:Rl:28:LEU:HD22	2:Rl:84:LYS:HB3	1.90	0.51
2:Rl:41:LEU:HG	2:Rl:127:ILE:HD13	1.92	0.51
2:Rn:56:ARG:HB3	2:Rn:56:ARG:NH1	2.25	0.51
1:K0:66:MET:HG2	1:K0:468:VAL:HG21	1.92	0.51
1:K5:205:MET:HG3	1:K5:324:PHE:HE1	1.75	0.51
1:K5:215:LYS:HB2	1:K5:329:ASN:HD22	1.76	0.51
1:K7:538:ASP:OD1	1:K7:538:ASP:N	2.41	0.51
1:K8:378:CYS:SG	1:K8:454:TYR:OH	2.55	0.51
1:K8:454:TYR:HB3	1:K8:467:TRP:CD1	2.44	0.51
1:L1:23:SER:O	1:L1:76:ASN:HB2	2.10	0.51
1:L1:645:THR:OG1	1:L2:629:ILE:O	2.28	0.51
1:L5:66:MET:HG2	1:L5:468:VAL:HG11	1.92	0.51
1:L7:481:THR:HG23	1:L7:496:ARG:HD3	1.92	0.51
1:L8:239:VAL:HG22	1:L8:280:ALA:HB3	1.92	0.51
1:L9:213:ASN:O	1:L9:217:TYR:HD1	1.94	0.51
1:LR:228:GLY:HA2	1:LR:345:SER:HB3	1.93	0.51
1:LU:29:LEU:O	1:LU:80:VAL:HA	2.09	0.51
1:LZ:135:ASP:OD1	1:LZ:136:ALA:N	2.42	0.51
1:Lc:40:GLN:H	1:Lc:81:VAL:HG23	1.76	0.51
1:Lw:561:LYS:HD2	1:MQ:10:LEU:HD13	1.93	0.51
1:Lx:478:CYS:O	1:Lx:555:ARG:NH1	2.43	0.51
1:M5:645:THR:OG1	1:M6:629:ILE:O	2.28	0.51
1:M6:256:PRO:HG2	1:M6:339:THR:H	1.76	0.51
1:M9:488:TRP:O	1:M9:552:ASN:ND2	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MW:276:ASP:N	1:MW:276:ASP:OD1	2.43	0.51
1:MX:236:ILE:HG22	1:MX:238:ILE:HG13	1.92	0.51
1:MY:406:LEU:HD22	1:MY:474:ILE:HG13	1.90	0.51
1:MY:480:ARG:O	1:MY:482:ASP:N	2.44	0.51
1:MZ:296:SER:O	1:MZ:311:ILE:HG13	2.10	0.51
1:Md:394:VAL:HG11	1:Md:443:ILE:HD12	1.93	0.51
1:Mw:91:ASN:N	1:Mw:91:ASN:OD1	2.43	0.51
1:Mx:538:ASP:HA	1:Mx:551:ILE:HD12	1.92	0.51
1:NX:560:LEU:HD21	1:NX:601:ILE:HD11	1.92	0.51
1:Nd:83:ALA:HB2	1:Nd:358:ALA:HB2	1.92	0.51
2:OC:132:LEU:HD13	2:OC:159:LEU:HB3	1.92	0.51
2:OF:20:LEU:HA	2:RT:54:MET:HE3	1.93	0.51
2:OG:27:TYR:CE1	2:OG:109:LYS:HE2	2.46	0.51
2:OH:46:VAL:HG22	2:OH:64:ARG:HB2	1.92	0.51
2:Oq:56:ARG:HB3	2:Oq:56:ARG:HH11	1.75	0.51
2:Or:3:VAL:HG12	2:Pq:97:ASN:HA	1.92	0.51
2:PF:25:ILE:C	2:PF:27:TYR:H	2.19	0.51
2:Pr:114:ARG:HG2	2:Pr:126:GLU:HG3	1.92	0.51
2:RJ:64:ARG:HH12	2:Ro:94:GLY:C	2.18	0.51
2:Ro:140:LEU:HD11	2:Ro:151:GLN:HG2	1.90	0.51
2:Rp:82:ARG:NH1	2:Rp:138:GLY:HA2	2.26	0.51
1:K0:102:THR:HB	1:K0:183:THR:HB	1.93	0.51
1:K5:36:GLY:O	1:K5:82:ARG:NH1	2.41	0.51
1:K5:645:THR:OG1	1:K6:629:ILE:O	2.27	0.51
1:K7:549:ASP:OD2	1:Lb:271:TYR:OH	2.21	0.51
1:K8:57:PRO:HB3	1:K8:62:ALA:HA	1.92	0.51
1:K8:410:PRO:O	1:K8:413:THR:HG22	2.10	0.51
1:L2:116:ILE:HG12	1:L2:171:ILE:HG12	1.90	0.51
1:L3:383:LEU:HD11	1:L3:436:TYR:HD1	1.76	0.51
1:LR:211:GLN:OE1	1:LR:328:GLN:NE2	2.44	0.51
1:LU:107:GLY:HA3	1:LU:110:TYR:HE2	1.75	0.51
1:LV:235:GLU:OE2	1:LV:261:ARG:NH2	2.22	0.51
1:LV:495:ASN:OD1	1:LV:495:ASN:N	2.43	0.51
1:LW:490:SER:OG	1:LW:538:ASP:OD2	2.19	0.51
1:LZ:495:ASN:OD1	1:LZ:495:ASN:N	2.43	0.51
1:LZ:654:LEU:HD22	1:La:605:ARG:HD3	1.92	0.51
1:Ld:85:ASP:HB3	1:Ld:346:SER:HB2	1.92	0.51
1:Lw:79:ARG:NH2	1:Lw:369:ASP:OD1	2.33	0.51
1:Lw:593:GLN:NE2	2:OD:4:ASP:OD2	2.41	0.51
1:M1:368:VAL:O	1:M1:400:ARG:NH2	2.43	0.51
1:M2:46:ASN:OD1	1:M2:47:GLU:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MQ:253:PRO:HG2	1:MQ:255:TYR:CE1	2.44	0.51
1:MV:438:ASP:N	1:MV:438:ASP:OD1	2.43	0.51
1:MX:32:LYS:HE2	1:MX:350:VAL:HB	1.90	0.51
1:MX:118:VAL:HG22	1:MX:184:LEU:HD11	1.90	0.51
1:Ma:228:GLY:HA2	1:Ma:345:SER:HB3	1.93	0.51
1:Mz:26:THR:HA	1:Mz:77:ASP:O	2.09	0.51
1:Mz:273:PRO:HB3	1:Mz:278:GLN:HB2	1.91	0.51
1:Nc:140:ILE:O	1:Nc:141:LYS:NZ	2.44	0.51
1:Nd:32:LYS:NZ	1:Nd:60:GLU:OE2	2.43	0.51
1:Nd:137:ASP:OD1	1:Nd:137:ASP:N	2.39	0.51
1:Ng:107:GLY:HA3	1:Ng:110:TYR:HE2	1.75	0.51
1:Ng:143:ILE:HD12	1:Ng:145:ILE:HD11	1.92	0.51
1:Nj:455:LYS:HZ2	1:Nj:457:GLN:HB2	1.74	0.51
1:Nw:400:ARG:HD3	1:Nw:403:CYS:SG	2.50	0.51
2:OI:49:ILE:HD11	2:Oo:150:ILE:HG22	1.91	0.51
2:Oi:17:ARG:HB2	2:Oi:20:LEU:HD12	1.92	0.51
2:Oi:99:ILE:HG12	2:RS:56:ARG:HG3	1.93	0.51
2:Op:114:ARG:HG2	2:Op:126:GLU:HG3	1.91	0.51
2:PH:23:VAL:HG11	2:PH:39:THR:HG21	1.92	0.51
2:Pi:56:ARG:NH2	2:RS:96:GLY:O	2.42	0.51
2:RH:114:ARG:HG2	2:RH:126:GLU:HG3	1.92	0.51
2:Rn:142:LEU:HD11	2:Rn:151:GLN:NE2	2.26	0.51
1:K4:378:CYS:HG	1:K4:454:TYR:HH	1.58	0.51
1:K7:518:TYR:CZ	1:K7:539:LYS:HG3	2.46	0.51
1:L1:479:ALA:O	1:L1:483:ASN:ND2	2.44	0.51
1:L2:423:VAL:HG13	1:L2:517:LEU:HD13	1.91	0.51
1:L5:451:ASP:OD2	1:L5:470:LEU:HB3	2.11	0.51
1:L7:281:ILE:HG13	1:L7:295:LEU:HD12	1.91	0.51
1:L7:406:LEU:HD13	1:L7:475:ALA:HB2	1.92	0.51
1:L7:572:LEU:O	1:L7:573:PHE:C	2.54	0.51
1:L8:121:VAL:HG13	1:L8:166:ASN:HB3	1.93	0.51
1:LW:57:PRO:HG3	1:LW:65:PHE:CD1	2.46	0.51
1:LX:400:ARG:NH1	1:LX:402:ASP:OD1	2.44	0.51
1:La:362:PHE:HD1	1:La:368:VAL:HG11	1.76	0.51
1:Lb:116:ILE:HG12	1:Lb:130:LYS:HA	1.93	0.51
1:Ld:216:LYS:HD3	1:Ld:217:TYR:CZ	2.46	0.51
1:Lw:571:ARG:NH2	1:Lw:587:GLU:OE1	2.43	0.51
1:M3:29:LEU:O	1:M3:80:VAL:HA	2.10	0.51
1:M4:238:ILE:HG23	1:M4:281:ILE:HD13	1.92	0.51
1:M6:313:ASP:N	1:M6:313:ASP:OD1	2.41	0.51
1:MQ:252:LEU:HD22	1:MQ:335:SER:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MV:480:ARG:C	1:MV:482:ASP:H	2.18	0.51
1:MW:66:MET:HB3	1:MW:468:VAL:HG11	1.92	0.51
1:MW:368:VAL:O	1:MW:400:ARG:NH2	2.44	0.51
1:MY:154:ALA:HA	1:MY:157:VAL:HG22	1.92	0.51
1:MZ:148:ALA:HB2	1:MZ:258:GLY:H	1.76	0.51
1:Ma:2:THR:OG1	1:Ma:3:LEU:N	2.41	0.51
1:Mv:467:TRP:CZ3	1:Mw:199:GLU:HB2	2.46	0.51
1:NX:155:LYS:HD3	1:NX:160:TYR:CD2	2.46	0.51
1:Nc:47:GLU:OE1	1:Nc:461:TYR:OH	2.26	0.51
1:Nc:619:ASP:OD1	1:Nc:619:ASP:N	2.44	0.51
1:Nf:455:LYS:HG3	1:Nf:502:VAL:HG13	1.92	0.51
1:Ng:571:ARG:HH11	1:Ng:584:PHE:HD1	1.58	0.51
1:Nw:90:LYS:NZ	1:Nw:190:ASP:OD1	2.44	0.51
1:Nw:107:GLY:HA3	1:Nw:180:ALA:HB2	1.90	0.51
2:OE:62:GLY:O	2:OF:118:ARG:NH2	2.44	0.51
2:ON:136:ASN:O	2:ON:136:ASN:ND2	2.43	0.51
2:Ok:48:LYS:HB2	2:PF:133:TRP:CZ2	2.45	0.51
2:Ol:140:LEU:HD13	2:Ol:153:PHE:HB3	1.92	0.51
2:Op:116:TYR:CE1	2:Op:123:VAL:HG22	2.45	0.51
2:PJ:115:GLN:OE1	2:Po:151:GLN:NE2	2.30	0.51
2:PM:75:ASN:ND2	2:PM:151:GLN:OE1	2.41	0.51
2:Pm:58:ILE:HD12	2:Pn:6:VAL:HG21	1.92	0.51
2:Pp:41:LEU:HD11	2:Pp:113:VAL:HG21	1.92	0.51
2:Pr:64:ARG:NH1	2:RM:95:GLN:HG3	2.26	0.51
2:RJ:5:ASP:OD1	2:RJ:8:ARG:NH2	2.44	0.51
1:K1:31:GLY:HA3	1:K1:64:TYR:CD1	2.46	0.51
1:K7:505:LEU:HD22	1:K7:533:TYR:HD2	1.76	0.51
1:L1:378:CYS:HB2	1:L1:410:PRO:HA	1.93	0.51
1:L2:57:PRO:HG3	1:L2:65:PHE:CD1	2.46	0.51
1:L4:302:LYS:O	1:L4:307:SER:N	2.43	0.51
1:L8:57:PRO:HG3	1:L8:65:PHE:CD1	2.46	0.51
1:LQ:100:GLU:OE2	1:LQ:186:LYS:NZ	2.42	0.51
1:LR:453:ASN:HB2	1:LR:506:ALA:HB3	1.92	0.51
1:LS:88:THR:HG22	1:LS:344:LEU:HD12	1.93	0.51
1:LX:102:THR:N	1:LX:183:THR:O	2.44	0.51
1:LX:228:GLY:HA2	1:LX:345:SER:HB3	1.92	0.51
1:LY:383:LEU:HD11	1:LY:436:TYR:CE1	2.46	0.51
1:Lb:646:ALA:O	1:Lb:647:THR:OG1	2.25	0.51
1:Lc:480:ARG:C	1:Lc:482:ASP:H	2.19	0.51
1:Lw:645:THR:OG1	1:Lx:629:ILE:O	2.27	0.51
1:Lx:31:GLY:HA3	1:Lx:64:TYR:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lx:51:VAL:HG22	1:Lx:65:PHE:HZ	1.76	0.51
1:Lz:108:SER:OG	1:Lz:137:ASP:OD2	2.28	0.51
1:M8:32:LYS:HE2	1:M8:350:VAL:HB	1.92	0.51
1:M9:131:ILE:HG12	1:M9:143:ILE:HG22	1.92	0.51
1:MQ:107:GLY:HA3	1:MQ:110:TYR:CE2	2.45	0.51
1:MR:423:VAL:HG21	1:MR:513:GLN:HB3	1.93	0.51
1:MU:110:TYR:CE1	1:MU:177:GLY:HA3	2.45	0.51
1:MZ:143:ILE:HD12	1:MZ:145:ILE:HD11	1.92	0.51
1:MZ:453:ASN:HB2	1:MZ:506:ALA:HB3	1.91	0.51
1:MZ:559:MET:HG3	1:MZ:560:LEU:N	2.25	0.51
1:Mb:22:ASN:OD1	1:Mb:22:ASN:N	2.44	0.51
1:Mb:108:SER:OG	1:Mb:137:ASP:OD2	2.28	0.51
1:Mx:561:LYS:HB3	1:NW:10:LEU:HD13	1.92	0.51
1:Mx:646:ALA:O	1:Mx:647:THR:OG1	2.27	0.51
1:NX:392:HIS:O	1:NX:395:SER:OG	2.21	0.51
1:Nc:41:ILE:HD11	1:Nc:361:PHE:HB3	1.92	0.51
1:Nc:70:ASN:OD1	1:Nc:457:GLN:NE2	2.38	0.51
1:Nh:240:SER:OG	1:Nh:243:ASP:OD1	2.29	0.51
1:Nv:26:THR:HA	1:Nv:77:ASP:O	2.11	0.51
1:Nv:102:THR:N	1:Nv:183:THR:O	2.42	0.51
1:Nw:451:ASP:OD2	1:Nw:470:LEU:HB3	2.10	0.51
1:Nx:100:GLU:OE2	1:Nx:186:LYS:HG3	2.11	0.51
1:Nx:560:LEU:HD22	1:Nx:629:ILE:HD13	1.91	0.51
1:Nz:109:ASN:OD1	1:Nz:109:ASN:N	2.44	0.51
1:Nz:378:CYS:SG	1:Nz:379:ALA:N	2.84	0.51
2:OE:41:LEU:HB2	2:Oj:140:LEU:HB3	1.93	0.51
2:OO:72:THR:HG22	2:OO:154:GLU:HG3	1.92	0.51
2:Os:131:GLY:O	2:Os:159:LEU:HA	2.11	0.51
2:PD:64:ARG:NH1	2:Pi:95:GLN:HG3	2.26	0.51
2:Pl:3:VAL:HG12	2:Rk:97:ASN:HA	1.91	0.51
2:Pp:143:ASP:OD1	2:Pp:144:TRP:N	2.44	0.51
1:K0:644:ALA:O	1:K0:645:THR:OG1	2.27	0.51
1:K4:417:ILE:HG22	1:K4:418:PRO:HD2	1.93	0.51
1:K8:375:ALA:HB3	1:K8:407:CYS:HA	1.92	0.51
1:L5:617:VAL:HG22	1:L5:622:GLU:HB2	1.93	0.51
1:LQ:453:ASN:HB2	1:LQ:506:ALA:HB3	1.90	0.51
1:LR:371:GLN:OE1	1:LR:562:THR:OG1	2.16	0.51
1:LV:417:ILE:HD13	1:LV:417:ILE:H	1.75	0.51
1:Lb:480:ARG:C	1:Lb:482:ASP:H	2.19	0.51
1:Le:135:ASP:HB3	1:Le:139:LYS:HB2	1.92	0.51
1:Lw:510:ARG:HG2	1:Lw:511:GLN:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M0:66:MET:HG2	1:M0:468:VAL:HG11	1.92	0.51
1:M1:391:LYS:NZ	1:M1:440:ASN:O	2.44	0.51
1:M2:478:CYS:O	1:M2:555:ARG:NH1	2.43	0.51
1:M3:22:ASN:N	1:M3:22:ASN:OD1	2.41	0.51
1:M5:70:ASN:OD1	1:M5:457:GLN:NE2	2.39	0.51
1:M5:561:LYS:HB3	1:Nd:10:LEU:HD13	1.93	0.51
1:M6:273:PRO:HB3	1:M6:278:GLN:HB2	1.93	0.51
1:M9:137:ASP:N	1:M9:137:ASP:OD1	2.42	0.51
1:MQ:414:VAL:HG23	1:MQ:422:ALA:HB1	1.92	0.51
1:MU:332:GLU:OE1	1:MU:332:GLU:N	2.31	0.51
1:MV:29:LEU:O	1:MV:80:VAL:HA	2.10	0.51
1:MV:82:ARG:NH2	1:MV:227:PRO:O	2.33	0.51
1:MV:375:ALA:HB1	1:MV:390:GLN:HG2	1.92	0.51
1:MY:36:GLY:O	1:MY:82:ARG:NH1	2.42	0.51
1:Ma:220:PRO:HG2	1:Ma:338:LEU:HD11	1.92	0.51
1:Mb:440:ASN:HD22	1:Mb:442:ASN:HB2	1.74	0.51
1:Mx:454:TYR:HB3	1:Mx:467:TRP:CD1	2.45	0.51
1:NX:131:ILE:HA	1:NX:143:ILE:HG22	1.93	0.51
1:NX:494:TYR:CE2	1:NZ:569:LYS:HD3	2.45	0.51
1:NZ:601:ILE:HG21	1:NZ:604:TYR:HB3	1.92	0.51
1:Na:494:TYR:CZ	1:Nb:569:LYS:HE2	2.46	0.51
1:Nb:228:GLY:HA2	1:Nb:345:SER:HB3	1.92	0.51
1:Nc:514:ARG:NH1	1:Nd:366:GLU:OE2	2.44	0.51
1:Ne:107:GLY:HA3	1:Ne:110:TYR:HE2	1.76	0.51
1:Nh:100:GLU:OE2	1:Nh:186:LYS:HG3	2.11	0.51
2:OL:97:ASN:HB3	2:RM:2:PHE:HD1	1.75	0.51
2:OM:133:TRP:CZ2	2:Rr:48:LYS:HB2	2.45	0.51
2:Ol:70:THR:HG22	2:Ol:156:THR:HG22	1.92	0.51
2:PL:46:VAL:HG22	2:PL:64:ARG:HB2	1.92	0.51
2:PN:82:ARG:HD3	2:PN:140:LEU:HD22	1.93	0.51
2:Pp:113:VAL:HG13	2:Pp:127:ILE:HG12	1.93	0.51
2:RG:83:GLN:HA	2:RG:86:VAL:HG22	1.93	0.51
2:RI:41:LEU:HD13	2:Rn:142:LEU:HD22	1.91	0.51
2:Rt:27:TYR:CE1	2:Rt:109:LYS:HE2	2.46	0.51
1:K1:137:ASP:N	1:K1:137:ASP:OD1	2.34	0.51
1:K6:112:VAL:HG13	1:K6:134:VAL:HG13	1.93	0.51
1:L3:467:TRP:CZ3	1:L4:199:GLU:HB2	2.45	0.51
1:L4:371:GLN:OE1	1:L4:562:THR:OG1	2.19	0.51
1:L5:10:LEU:HD13	1:La:561:LYS:HB3	1.93	0.51
1:L8:135:ASP:OD1	1:L8:136:ALA:N	2.44	0.51
1:LQ:455:LYS:HB3	1:LQ:470:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LQ:526:THR:HG23	1:LQ:534:VAL:HG23	1.91	0.51
1:LV:209:ASP:OD1	1:LV:209:ASP:N	2.40	0.51
1:LW:351:THR:OG1	1:LW:352:ALA:N	2.44	0.51
1:LX:332:GLU:H	1:LX:332:GLU:CD	2.18	0.51
1:LX:455:LYS:HD2	1:LX:502:VAL:HG22	1.93	0.51
1:La:41:ILE:HD11	1:La:361:PHE:HB3	1.91	0.51
1:Ld:26:THR:HA	1:Ld:77:ASP:O	2.09	0.51
1:Ld:157:VAL:HG23	1:Ld:159:GLU:H	1.75	0.51
1:M0:110:TYR:CD1	1:M0:177:GLY:HA3	2.46	0.51
1:M3:239:VAL:HG13	1:M3:280:ALA:HB3	1.92	0.51
1:M4:101:TYR:OH	1:M4:216:LYS:O	2.28	0.51
1:M8:455:LYS:HZ2	1:M8:457:GLN:HB2	1.76	0.51
1:MR:518:TYR:CE2	1:Mw:6:PRO:HD3	2.46	0.51
1:MY:436:TYR:HB3	1:MY:439:ASN:O	2.10	0.51
1:Ma:490:SER:OG	1:Ma:538:ASP:OD2	2.17	0.51
1:Mb:222:VAL:HG22	1:Mb:325:ALA:HB2	1.92	0.51
1:Mc:28:ALA:HB2	1:Mc:370:VAL:HG21	1.93	0.51
1:Me:193:ILE:HG21	1:Me:223:VAL:HG11	1.91	0.51
1:Mv:101:TYR:OH	1:Mv:216:LYS:O	2.27	0.51
1:NV:596:LYS:NZ	1:NV:602:TYR:O	2.40	0.51
1:NX:88:THR:HG22	1:NX:344:LEU:HD12	1.92	0.51
1:NX:453:ASN:HB2	1:NX:506:ALA:HB3	1.92	0.51
1:Nb:154:ALA:HA	1:Nb:157:VAL:HG22	1.93	0.51
1:Nd:30:ALA:HB2	1:Nd:81:VAL:HG13	1.91	0.51
1:Nd:31:GLY:HA3	1:Nd:64:TYR:CD2	2.45	0.51
1:Ne:159:GLU:O	1:Ne:162:THR:N	2.44	0.51
1:Ne:379:ALA:O	1:Ne:381:GLU:N	2.42	0.51
1:Nf:131:ILE:HD11	1:Nf:171:ILE:HD13	1.91	0.51
1:Nf:143:ILE:HD12	1:Nf:145:ILE:HD11	1.93	0.51
1:Nf:291:GLN:NE2	1:Nf:320:SER:OG	2.25	0.51
1:Ng:116:ILE:HD11	1:Ng:131:ILE:HG13	1.93	0.51
1:Nh:514:ARG:NH1	1:Ni:366:GLU:OE2	2.44	0.51
1:Nw:436:TYR:HB3	1:Nw:439:ASN:O	2.11	0.51
1:Nx:365:ARG:HA	1:Nx:400:ARG:NH2	2.26	0.51
2:Oo:82:ARG:HH12	2:Oo:138:GLY:HA2	1.74	0.51
2:PH:114:ARG:HG2	2:PH:126:GLU:HG3	1.92	0.51
2:Pi:140:LEU:HD13	2:Pi:153:PHE:HB3	1.92	0.51
2:Pr:2:PHE:HA	2:Rq:98:GLU:HA	1.92	0.51
2:Pt:43:ALA:O	2:Pt:162:TRP:NE1	2.43	0.51
2:RG:14:ASP:O	2:Rl:77:GLU:HB2	2.11	0.51
2:Rl:39:THR:HG22	2:Rl:71:VAL:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K5:601:ILE:HG21	1:K5:629:ILE:HD12	1.93	0.51
1:K6:360:ASP:OD1	1:K6:392:HIS:NE2	2.37	0.51
1:K9:365:ARG:HA	1:K9:400:ARG:HH21	1.76	0.51
1:L0:74:TYR:CD2	1:L0:476:GLY:HA3	2.45	0.51
1:L1:253:PRO:HG2	1:L1:255:TYR:CE1	2.46	0.51
1:L2:645:THR:OG1	1:L3:629:ILE:O	2.29	0.51
1:L4:14:THR:HG22	1:LY:643:VAL:HG13	1.93	0.51
1:L5:57:PRO:HG3	1:L5:65:PHE:CD1	2.46	0.51
1:L7:235:GLU:OE2	1:L7:261:ARG:NH2	2.38	0.51
1:L7:394:VAL:HG11	1:L7:443:ILE:HD12	1.93	0.51
1:L8:44:VAL:HG11	1:L8:50:LEU:HB2	1.93	0.51
1:L8:90:LYS:HB3	1:L8:191:SER:OG	2.11	0.51
1:LQ:239:VAL:HG23	1:LQ:280:ALA:HB3	1.93	0.51
1:LU:143:ILE:HD12	1:LU:145:ILE:HD11	1.92	0.51
1:LW:432:ALA:CB	1:LW:440:ASN:HD22	2.24	0.51
1:LX:559:MET:SD	1:LX:591:TYR:OH	2.69	0.51
1:LY:379:ALA:HA	1:LY:411:ARG:HB2	1.93	0.51
1:LY:406:LEU:HD22	1:LY:474:ILE:HG13	1.91	0.51
1:Lb:47:GLU:OE1	1:Lb:461:TYR:OH	2.19	0.51
1:Lx:510:ARG:HG2	1:Lx:511:GLN:H	1.76	0.51
1:Lz:116:ILE:HB	1:Lz:129:GLY:HA3	1.91	0.51
1:M0:107:GLY:HA3	1:M0:110:TYR:HE2	1.75	0.51
1:M1:83:ALA:HB2	1:M1:358:ALA:HB2	1.92	0.51
1:M2:130:LYS:HZ3	1:M2:132:THR:HA	1.76	0.51
1:M3:400:ARG:NH1	1:M3:403:CYS:SG	2.84	0.51
1:MU:403:CYS:O	1:MU:558:ASN:ND2	2.37	0.51
1:MX:394:VAL:HG11	1:MX:443:ILE:HD12	1.91	0.51
1:Me:31:GLY:HA3	1:Me:64:TYR:CD2	2.45	0.51
1:Me:441:PHE:CZ	1:Me:443:ILE:HD11	2.46	0.51
1:NW:228:GLY:HA2	1:NW:345:SER:HB3	1.93	0.51
1:NX:494:TYR:HE2	1:NX:528:THR:HG21	1.74	0.51
1:Nd:26:THR:HA	1:Nd:77:ASP:O	2.11	0.51
1:Nw:441:PHE:CZ	1:Nw:443:ILE:HD11	2.46	0.51
1:Nw:654:LEU:HD22	1:Nx:605:ARG:HD3	1.92	0.51
1:Nx:467:TRP:CZ3	1:Nz:199:GLU:HB2	2.46	0.51
1:Nz:209:ASP:OD1	1:Nz:209:ASP:N	2.33	0.51
1:Nz:430:ARG:HG3	1:Nz:522:ILE:HD11	1.93	0.51
2:Oo:98:GLU:OE1	2:Oo:98:GLU:N	2.29	0.51
2:PF:85:PHE:CD2	2:PF:155:VAL:HG11	2.46	0.51
2:PI:136:ASN:ND2	2:PI:136:ASN:O	2.43	0.51
2:Ps:120:ALA:HB2	2:RM:99:ILE:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ro:67:ASP:OD1	2:Ro:67:ASP:N	2.34	0.51
1:K1:108:SER:OG	1:K1:137:ASP:OD2	2.20	0.51
1:K1:378:CYS:SG	1:K1:469:PRO:HB3	2.51	0.51
1:K2:569:LYS:HB2	1:LV:8:ILE:HD11	1.93	0.51
1:L0:379:ALA:HB2	1:L0:469:PRO:HD3	1.93	0.51
1:L2:561:LYS:NZ	1:MV:12:GLU:OE2	2.29	0.51
1:L4:94:PRO:HD3	1:L4:222:VAL:O	2.11	0.51
1:L5:22:ASN:ND2	1:L5:76:ASN:OD1	2.44	0.51
1:L5:247:GLY:HA2	1:L5:266:LYS:HG3	1.93	0.51
1:L5:427:VAL:HG13	1:L5:520:GLU:HG3	1.93	0.51
1:L6:135:ASP:OD1	1:L6:136:ALA:N	2.45	0.51
1:L7:328:GLN:HG2	1:L7:329:ASN:ND2	2.25	0.51
1:LV:467:TRP:HZ3	1:LW:199:GLU:HB2	1.76	0.51
1:LY:134:VAL:HG12	1:LY:140:ILE:HA	1.93	0.51
1:La:392:HIS:O	1:La:395:SER:OG	2.24	0.51
1:Le:116:ILE:HD11	1:Le:131:ILE:HG13	1.93	0.51
1:Lv:601:ILE:HG12	1:Lv:629:ILE:HD12	1.92	0.51
1:Lw:296:SER:O	1:Lw:311:ILE:HG13	2.11	0.51
1:M6:413:THR:HG23	1:M6:425:ASN:HB3	1.93	0.51
1:MW:137:ASP:OD1	1:MW:138:GLY:N	2.37	0.51
1:MY:57:PRO:HG3	1:MY:65:PHE:CD1	2.45	0.51
1:Ma:100:GLU:OE2	1:Ma:186:LYS:NZ	2.35	0.51
1:Me:57:PRO:HB2	1:Me:62:ALA:HA	1.93	0.51
1:Mx:118:VAL:HB	1:Mx:126:GLU:HB3	1.91	0.51
1:Mx:538:ASP:OD1	1:Mx:538:ASP:N	2.43	0.51
1:NV:427:VAL:O	1:NV:431:THR:OG1	2.23	0.51
1:NV:549:ASP:O	1:NV:550:ARG:NE	2.32	0.51
1:NW:66:MET:HG2	1:NW:468:VAL:HG21	1.93	0.51
1:Nb:298:LYS:NZ	1:Nb:299:ARG:O	2.44	0.51
1:Nb:411:ARG:O	1:Nb:415:VAL:HB	2.11	0.51
1:Nh:444:SER:OG	1:Nh:543:SER:OG	2.17	0.51
1:Nj:34:GLN:O	1:Nj:82:ARG:NH2	2.44	0.51
1:Nv:40:GLN:H	1:Nv:81:VAL:HG23	1.76	0.51
2:OF:134:PRO:HA	2:OF:157:LEU:HA	1.92	0.51
2:OM:64:ARG:NH1	2:Or:95:GLN:HG3	2.26	0.51
2:Op:120:ALA:HB3	2:Op:121:LYS:HD2	1.92	0.51
2:RI:54:MET:HE3	2:Ro:20:LEU:HA	1.92	0.51
2:RK:125:LYS:HG2	2:Rp:79:HIS:ND1	2.26	0.51
2:Rm:136:ASN:O	2:Rm:136:ASN:ND2	2.44	0.51
1:K2:645:THR:OG1	1:K3:629:ILE:O	2.28	0.50
1:K4:28:ALA:HB2	1:K4:370:VAL:HG21	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K4:131:ILE:HD13	1:K4:140:ILE:HG21	1.93	0.50
1:K5:368:VAL:O	1:K5:400:ARG:NH2	2.44	0.50
1:K5:400:ARG:HD3	1:K5:403:CYS:SG	2.51	0.50
1:K7:10:LEU:HD13	1:Nh:561:LYS:HD2	1.92	0.50
1:K7:163:LEU:HB2	1:K7:186:LYS:HA	1.93	0.50
1:K8:2:THR:HG1	1:K8:3:LEU:H	1.59	0.50
1:K9:538:ASP:N	1:K9:538:ASP:OD1	2.42	0.50
1:L1:239:VAL:HG22	1:L1:280:ALA:HB3	1.93	0.50
1:L1:406:LEU:HD13	1:L1:475:ALA:HB2	1.93	0.50
1:L4:511:GLN:NE2	1:MY:5:SER:OG	2.29	0.50
1:L5:560:LEU:O	1:L5:564:ILE:HG12	2.11	0.50
1:L7:559:MET:HG3	1:L7:560:LEU:N	2.24	0.50
1:L9:114:ASP:OD1	1:L9:114:ASP:N	2.43	0.50
1:LQ:252:LEU:HD22	1:LQ:335:SER:O	2.11	0.50
1:LR:527:GLY:HA2	1:LR:533:TYR:HD1	1.76	0.50
1:LU:432:ALA:HB2	1:LU:440:ASN:ND2	2.26	0.50
1:LV:166:ASN:OD1	1:LV:166:ASN:N	2.44	0.50
1:LV:406:LEU:HD13	1:LV:475:ALA:HB2	1.92	0.50
1:LW:137:ASP:OD1	1:LW:138:GLY:N	2.38	0.50
1:LW:311:ILE:HB	1:LW:327:ALA:HB2	1.93	0.50
1:LW:494:TYR:CE1	1:LX:569:LYS:HG3	2.46	0.50
1:M4:371:GLN:OE1	1:M4:562:THR:OG1	2.22	0.50
1:M4:480:ARG:O	1:M4:484:VAL:HG12	2.11	0.50
1:MQ:107:GLY:HA3	1:MQ:110:TYR:HE2	1.75	0.50
1:MS:162:THR:O	1:MS:186:LYS:HB3	2.11	0.50
1:MU:400:ARG:HD3	1:MU:403:CYS:SG	2.52	0.50
1:MX:455:LYS:HD2	1:MX:502:VAL:HG22	1.92	0.50
1:MX:638:ILE:HG23	1:MY:623:PHE:HD2	1.75	0.50
1:Ma:315:PHE:CE2	1:Ma:325:ALA:HB3	2.46	0.50
1:Mb:246:LYS:HB2	1:Mb:250:ALA:HB2	1.91	0.50
1:Mc:440:ASN:N	1:Mc:440:ASN:OD1	2.43	0.50
1:Mx:411:ARG:O	1:Mx:415:VAL:HB	2.11	0.50
1:NW:33:PHE:HA	1:NW:61:THR:HG23	1.94	0.50
1:NX:135:ASP:OD1	1:NX:136:ALA:N	2.41	0.50
1:Nf:77:ASP:OD2	1:Nf:79:ARG:NH2	2.43	0.50
1:Nf:645:THR:OG1	1:Ng:629:ILE:O	2.29	0.50
1:Nj:107:GLY:HA3	1:Nj:110:TYR:CE2	2.47	0.50
1:Nx:11:LYS:HG2	1:Nx:13:THR:HG23	1.93	0.50
2:Ol:54:MET:O	2:Ol:56:ARG:N	2.43	0.50
2:PH:39:THR:HG22	2:PH:71:VAL:HG22	1.92	0.50
2:Ps:136:ASN:ND2	2:Ps:136:ASN:O	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pt:64:ARG:NH1	2:RO:95:GLN:HG3	2.26	0.50
2:Pt:83:GLN:HA	2:Pt:86:VAL:HG22	1.93	0.50
2:RO:56:ARG:HB3	2:RO:56:ARG:NH1	2.26	0.50
2:Rk:73:VAL:HG12	2:Rk:74:MET:O	2.10	0.50
2:Rp:114:ARG:HG2	2:Rp:126:GLU:HG3	1.93	0.50
1:K2:375:ALA:O	1:K2:390:GLN:NE2	2.43	0.50
1:L0:119:LYS:HZ3	1:L0:124:ASP:CG	2.20	0.50
1:L6:33:PHE:HA	1:L6:61:THR:HG23	1.93	0.50
1:LQ:163:LEU:HD11	1:LQ:187:ILE:HG12	1.93	0.50
1:LQ:521:ALA:HB1	1:LQ:541:ALA:HA	1.92	0.50
1:LR:538:ASP:OD1	1:LR:538:ASP:N	2.42	0.50
1:LS:560:LEU:HD21	1:LS:601:ILE:HD11	1.93	0.50
1:LW:470:LEU:HD23	1:LW:525:VAL:HG21	1.94	0.50
1:LX:454:TYR:HB3	1:LX:467:TRP:CD1	2.47	0.50
1:LZ:131:ILE:HD13	1:LZ:140:ILE:HG21	1.93	0.50
1:Ld:34:GLN:NE2	1:Ld:230:LEU:HG	2.26	0.50
1:Ld:368:VAL:HG12	1:Ld:370:VAL:HG22	1.91	0.50
1:Lv:155:LYS:HD3	1:Lv:160:TYR:HB3	1.92	0.50
1:M0:26:THR:HA	1:M0:77:ASP:O	2.11	0.50
1:M1:199:GLU:HB2	1:Mz:467:TRP:CZ3	2.46	0.50
1:M8:70:ASN:OD1	1:M8:457:GLN:NE2	2.45	0.50
1:MQ:40:GLN:H	1:MQ:81:VAL:HG23	1.77	0.50
1:MR:35:TRP:O	1:MR:54:PHE:HA	2.11	0.50
1:MV:467:TRP:CZ3	1:MW:199:GLU:HB2	2.46	0.50
1:MX:228:GLY:HA2	1:MX:345:SER:HB3	1.93	0.50
1:MZ:32:LYS:HE2	1:MZ:350:VAL:HB	1.92	0.50
1:Mb:152:ALA:O	1:Mb:156:GLU:HG2	2.10	0.50
1:Mv:131:ILE:HG12	1:Mv:143:ILE:HG22	1.93	0.50
1:Mv:378:CYS:HG	1:Mv:454:TYR:HH	1.56	0.50
1:Mv:467:TRP:CH2	1:Mw:199:GLU:HB2	2.46	0.50
1:Mw:451:ASP:OD1	1:Mw:474:ILE:HG21	2.10	0.50
1:Mx:480:ARG:C	1:Mx:482:ASP:H	2.20	0.50
1:NV:41:ILE:HD13	1:NV:81:VAL:HB	1.93	0.50
1:NX:400:ARG:NH1	1:NX:403:CYS:SG	2.77	0.50
1:Nd:378:CYS:SG	1:Nd:469:PRO:HB3	2.52	0.50
1:Nd:484:VAL:HG13	1:Nd:485:SER:H	1.76	0.50
1:Nv:451:ASP:OD2	1:Nv:470:LEU:HB3	2.11	0.50
1:Nx:57:PRO:HG3	1:Nx:65:PHE:CD1	2.46	0.50
1:Nx:510:ARG:H	1:Nx:513:GLN:HG3	1.76	0.50
2:OG:147:ASN:ND2	2:Rk:63:ASP:OD2	2.44	0.50
2:Om:23:VAL:HG13	2:Om:36:CYS:SG	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PE:41:LEU:HG	2:PE:127:ILE:HD13	1.93	0.50
2:PI:46:VAL:HG22	2:PI:64:ARG:HB2	1.92	0.50
2:PL:72:THR:O	2:PL:72:THR:OG1	2.29	0.50
2:Po:114:ARG:HG2	2:Po:126:GLU:HG3	1.92	0.50
2:RF:4:ASP:OD1	2:RF:4:ASP:N	2.43	0.50
2:Rs:75:ASN:ND2	2:Rs:151:GLN:OE1	2.38	0.50
1:K2:39:PHE:CE1	1:K2:86:ARG:HD2	2.45	0.50
1:K5:386:ALA:O	1:K5:390:GLN:NE2	2.42	0.50
1:K5:510:ARG:HG2	1:K5:511:GLN:H	1.76	0.50
1:K8:10:LEU:HD13	1:Ni:561:LYS:HD2	1.92	0.50
1:K8:163:LEU:HB2	1:K8:186:LYS:HA	1.94	0.50
1:L0:470:LEU:HD23	1:L0:525:VAL:HG21	1.92	0.50
1:L1:505:LEU:HD21	1:L1:525:VAL:HG12	1.92	0.50
1:L1:642:PHE:CE2	1:L2:564:ILE:HD11	2.47	0.50
1:L2:467:TRP:CZ3	1:L3:199:GLU:HB2	2.45	0.50
1:L9:91:ASN:OD1	1:L9:91:ASN:N	2.45	0.50
1:LS:454:TYR:HB3	1:LS:467:TRP:CD1	2.46	0.50
1:LY:423:VAL:HG13	1:LY:517:LEU:HD13	1.93	0.50
1:LZ:151:ILE:O	1:LZ:155:LYS:HG2	2.10	0.50
1:Lc:133:GLU:HB3	1:Lc:141:LYS:HB2	1.93	0.50
1:Lc:613:ASN:HA	1:Lc:617:VAL:HG11	1.93	0.50
1:M3:34:GLN:HG2	1:M3:230:LEU:HD12	1.92	0.50
1:M5:411:ARG:O	1:M5:415:VAL:HB	2.11	0.50
1:M8:91:ASN:OD1	1:M8:91:ASN:N	2.37	0.50
1:MU:107:GLY:HA3	1:MU:110:TYR:CE2	2.45	0.50
1:MW:538:ASP:OD1	1:MW:538:ASP:N	2.43	0.50
1:Mv:410:PRO:O	1:Mv:413:THR:HG22	2.12	0.50
1:Mw:642:PHE:CZ	1:Mx:564:ILE:HD11	2.45	0.50
1:NV:480:ARG:C	1:NV:482:ASP:H	2.18	0.50
1:NW:32:LYS:NZ	1:NW:60:GLU:OE2	2.36	0.50
1:NW:332:GLU:OE1	1:NW:332:GLU:N	2.34	0.50
1:NZ:221:GLY:O	1:NZ:325:ALA:HA	2.11	0.50
1:Nb:36:GLY:O	1:Nb:82:ARG:NH1	2.42	0.50
1:Nd:417:ILE:HD13	1:Nd:417:ILE:H	1.76	0.50
1:Nd:559:MET:HG3	1:Nd:560:LEU:N	2.25	0.50
1:Ne:269:PHE:CE2	1:Ne:280:ALA:HB1	2.46	0.50
1:Nf:154:ALA:HA	1:Nf:157:VAL:HG22	1.92	0.50
1:Nj:234:ILE:HG12	1:Nj:285:ARG:HG3	1.92	0.50
1:Nj:455:LYS:NZ	1:Nj:457:GLN:OE1	2.44	0.50
1:Nv:526:THR:OG1	1:Nw:366:GLU:OE2	2.28	0.50
1:Nw:459:ASP:OD2	1:Nw:466:ARG:NH1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nx:400:ARG:HD3	1:Nx:403:CYS:SG	2.50	0.50
1:Nz:378:CYS:SG	1:Nz:454:TYR:OH	2.51	0.50
2:ON:77:GLU:O	2:Rs:124:THR:OG1	2.26	0.50
2:Oh:113:VAL:HG13	2:Oh:127:ILE:HG12	1.92	0.50
2:Oq:52:GLY:HA2	2:Oq:57:LYS:HB3	1.92	0.50
2:PE:80:ASP:O	2:PE:84:LYS:HG3	2.12	0.50
2:PL:56:ARG:HG3	2:RL:99:ILE:HG12	1.93	0.50
2:RO:136:ASN:O	2:RO:136:ASN:ND2	2.44	0.50
1:K0:110:TYR:H	1:K0:138:GLY:CA	2.24	0.50
1:K3:612:ASN:HB3	1:K3:624:VAL:HG23	1.92	0.50
1:K8:157:VAL:HG23	1:K8:159:GLU:H	1.75	0.50
1:K9:490:SER:OG	1:K9:538:ASP:OD2	2.21	0.50
1:K9:612:ASN:HB3	1:K9:624:VAL:HG23	1.91	0.50
1:L0:345:SER:OG	1:L0:346:SER:N	2.44	0.50
1:L5:549:ASP:OD2	1:MZ:271:TYR:OH	2.19	0.50
1:L8:450:ILE:HD13	1:L8:522:ILE:HG12	1.93	0.50
1:LU:451:ASP:CG	1:LU:452:GLY:H	2.19	0.50
1:LV:561:LYS:NZ	1:Lz:12:GLU:OE2	2.27	0.50
1:LY:105:THR:O	1:LY:180:ALA:HA	2.12	0.50
1:LZ:40:GLN:H	1:LZ:81:VAL:HG23	1.75	0.50
1:Lc:454:TYR:HB3	1:Lc:467:TRP:CD1	2.46	0.50
1:Le:90:LYS:NZ	1:Le:190:ASP:OD1	2.45	0.50
1:Lv:406:LEU:HB3	1:Lv:474:ILE:HD11	1.92	0.50
1:Lv:505:LEU:HD21	1:Lv:525:VAL:HG12	1.93	0.50
1:M4:131:ILE:HD11	1:M4:171:ILE:HD13	1.94	0.50
1:M7:66:MET:HG2	1:M7:468:VAL:HG21	1.94	0.50
1:MS:455:LYS:NZ	1:MS:473:ASP:OD1	2.41	0.50
1:MU:400:ARG:NH1	1:MU:402:ASP:OD1	2.44	0.50
1:MX:104:SER:HB2	1:MX:181:VAL:HB	1.92	0.50
1:MY:378:CYS:HB2	1:MY:410:PRO:HA	1.93	0.50
1:MZ:137:ASP:OD1	1:MZ:138:GLY:N	2.35	0.50
1:MZ:239:VAL:HG22	1:MZ:280:ALA:HB3	1.93	0.50
1:Mc:116:ILE:HD12	1:Mc:171:ILE:HG12	1.94	0.50
1:Mc:454:TYR:HB3	1:Mc:467:TRP:CD1	2.46	0.50
1:Mc:510:ARG:HG2	1:Mc:511:GLN:H	1.76	0.50
1:Me:572:LEU:O	1:Me:573:PHE:C	2.54	0.50
1:Mv:505:LEU:HD21	1:Mv:525:VAL:HG12	1.93	0.50
1:Mw:104:SER:OG	1:Mw:183:THR:OG1	2.29	0.50
1:Mx:222:VAL:HG13	1:Mx:325:ALA:HB2	1.93	0.50
1:Mz:222:VAL:HG22	1:Mz:325:ALA:HB2	1.93	0.50
1:NW:99:ILE:HA	1:NW:187:ILE:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NW:614:THR:C	1:NW:616:SER:H	2.19	0.50
1:Na:470:LEU:O	1:Na:474:ILE:HG12	2.12	0.50
1:Nb:478:CYS:O	1:Nb:555:ARG:NH1	2.43	0.50
1:Nc:109:ASN:N	1:Nc:138:GLY:HA3	2.26	0.50
1:Nc:485:SER:OG	1:Nc:486:GLN:N	2.45	0.50
1:Nh:90:LYS:NZ	1:Nh:190:ASP:OD1	2.35	0.50
1:Nx:480:ARG:C	1:Nx:482:ASP:H	2.19	0.50
2:OK:41:LEU:HD11	2:OK:113:VAL:HG21	1.92	0.50
2:OM:39:THR:HG22	2:OM:71:VAL:HG22	1.93	0.50
2:OM:41:LEU:HD13	2:Or:142:LEU:HD22	1.93	0.50
2:Oi:114:ARG:HB3	2:Oi:123:VAL:HG13	1.92	0.50
2:Ol:82:ARG:NH1	2:Ol:138:GLY:HA2	2.27	0.50
2:PE:83:GLN:HA	2:PE:86:VAL:HG22	1.92	0.50
2:Pt:14:ASP:OD1	2:Pt:17:ARG:NH2	2.45	0.50
2:RO:136:ASN:HB3	2:RO:156:THR:HG23	1.91	0.50
2:Rq:46:VAL:HG22	2:Rq:64:ARG:HB3	1.92	0.50
1:K4:253:PRO:HG2	1:K4:255:TYR:CE1	2.46	0.50
1:K6:200:ASN:OD1	1:K6:200:ASN:N	2.44	0.50
1:K8:77:ASP:OD2	1:K8:79:ARG:NH1	2.44	0.50
1:K8:453:ASN:HB2	1:K8:506:ALA:HB3	1.93	0.50
1:L1:44:VAL:HG11	1:L1:50:LEU:HB2	1.93	0.50
1:L2:26:THR:HA	1:L2:77:ASP:O	2.12	0.50
1:L2:120:TYR:CE1	1:L2:166:ASN:HB2	2.47	0.50
1:L2:296:SER:O	1:L2:311:ILE:HG13	2.12	0.50
1:L7:199:GLU:OE1	1:L7:200:ASN:ND2	2.31	0.50
1:LR:394:VAL:HG11	1:LR:443:ILE:HD12	1.94	0.50
1:LV:430:ARG:HH21	1:LV:541:ALA:HB1	1.77	0.50
1:LV:451:ASP:CG	1:LV:452:GLY:H	2.19	0.50
1:LW:252:LEU:HD22	1:LW:335:SER:O	2.11	0.50
1:LZ:296:SER:O	1:LZ:311:ILE:HG13	2.12	0.50
1:Lv:406:LEU:HD13	1:Lv:475:ALA:HB2	1.92	0.50
1:Lw:28:ALA:HB2	1:Lw:370:VAL:HG21	1.94	0.50
1:Lx:365:ARG:HA	1:Lx:400:ARG:NH2	2.26	0.50
1:M1:400:ARG:NH1	1:M1:402:ASP:OD1	2.45	0.50
1:M1:451:ASP:CG	1:M1:452:GLY:H	2.20	0.50
1:M6:614:THR:C	1:M6:616:SER:H	2.20	0.50
1:M9:417:ILE:HD13	1:M9:417:ILE:H	1.76	0.50
1:MQ:510:ARG:HG2	1:MQ:511:GLN:H	1.75	0.50
1:MU:494:TYR:CZ	1:MV:569:LYS:HD3	2.46	0.50
1:Mx:400:ARG:HD3	1:Mx:403:CYS:SG	2.51	0.50
1:NW:451:ASP:OD1	1:NW:452:GLY:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nc:34:GLN:NE2	1:Nc:56:GLN:O	2.44	0.50
1:Nc:211:GLN:OE1	1:Nc:329:ASN:ND2	2.44	0.50
1:Nc:423:VAL:HG13	1:Nc:517:LEU:HD13	1.94	0.50
1:Nc:467:TRP:CZ3	1:Nd:199:GLU:HB2	2.46	0.50
1:Nf:614:THR:O	1:Nf:616:SER:N	2.42	0.50
1:Ng:485:SER:OG	1:Ng:486:GLN:N	2.45	0.50
1:Ni:379:ALA:HB2	1:Ni:454:TYR:CE2	2.47	0.50
1:Nj:107:GLY:HA3	1:Nj:110:TYR:HE2	1.77	0.50
2:OE:19:ASN:OD1	2:OE:19:ASN:N	2.34	0.50
2:OF:54:MET:HE2	2:OG:1:MET:HE1	1.93	0.50
2:OI:2:PHE:HD2	2:PH:97:ASN:HB3	1.77	0.50
2:OL:91:ILE:HG22	2:OL:107:TYR:HB3	1.93	0.50
2:OO:80:ASP:O	2:OO:84:LYS:HG3	2.12	0.50
2:Ok:46:VAL:HG22	2:Ok:64:ARG:HB2	1.93	0.50
2:Oo:128:GLU:OE1	2:Oo:130:LYS:NZ	2.44	0.50
2:PG:134:PRO:HA	2:PG:157:LEU:HA	1.93	0.50
2:PI:140:LEU:HD13	2:PI:153:PHE:HB3	1.94	0.50
2:PM:104:PRO:HA	2:PM:107:TYR:CE2	2.46	0.50
2:PN:41:LEU:HD13	2:Ps:142:LEU:HD22	1.92	0.50
2:PO:39:THR:HG22	2:PO:71:VAL:HG13	1.93	0.50
2:Pt:25:ILE:C	2:Pt:27:TYR:H	2.19	0.50
2:RG:31:ASN:O	2:RG:35:GLN:HG3	2.11	0.50
2:RJ:23:VAL:HG22	2:RJ:36:CYS:SG	2.51	0.50
1:K2:332:GLU:H	1:K2:332:GLU:CD	2.20	0.50
1:K2:495:ASN:OD1	1:K2:495:ASN:N	2.37	0.50
1:K3:480:ARG:NH2	1:K3:496:ARG:O	2.44	0.50
1:K4:121:VAL:HG13	1:K4:166:ASN:HB3	1.94	0.50
1:K6:108:SER:OG	1:K6:137:ASP:OD2	2.29	0.50
1:K7:3:LEU:HD11	1:K7:9:GLU:HB2	1.94	0.50
1:K7:137:ASP:OD1	1:K7:137:ASP:N	2.44	0.50
1:K7:617:VAL:HG22	1:K7:622:GLU:HB2	1.93	0.50
1:L3:94:PRO:HD3	1:L3:222:VAL:O	2.12	0.50
1:L3:120:TYR:HE2	1:L3:157:VAL:HG11	1.76	0.50
1:L5:409:PRO:HB3	1:L5:426:LEU:HD21	1.94	0.50
1:L9:538:ASP:OD1	1:L9:538:ASP:N	2.44	0.50
1:LR:4:LEU:HD13	1:Nw:519:GLN:NE2	2.27	0.50
1:LR:365:ARG:NH2	1:LR:400:ARG:O	2.44	0.50
1:LS:451:ASP:CG	1:LS:452:GLY:H	2.19	0.50
1:LW:76:ASN:O	1:LW:76:ASN:ND2	2.45	0.50
1:LW:379:ALA:HA	1:LW:411:ARG:HB2	1.93	0.50
1:Lb:526:THR:OG1	1:Lb:527:GLY:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lc:91:ASN:OD1	1:Lc:91:ASN:N	2.45	0.50
1:Lc:220:PRO:HG2	1:Lc:338:LEU:HD11	1.93	0.50
1:Lc:430:ARG:HG3	1:Lc:522:ILE:HD11	1.92	0.50
1:Lv:26:THR:HA	1:Lv:77:ASP:O	2.12	0.50
1:Lz:505:LEU:HD21	1:Lz:525:VAL:HG12	1.94	0.50
1:M3:169:ALA:HB2	1:M3:184:LEU:HD21	1.92	0.50
1:M4:94:PRO:HD3	1:M4:222:VAL:O	2.11	0.50
1:M7:455:LYS:HD2	1:M7:457:GLN:HB2	1.93	0.50
1:M7:480:ARG:O	1:M7:484:VAL:HG12	2.12	0.50
1:M7:572:LEU:O	1:M7:573:PHE:C	2.55	0.50
1:MR:11:LYS:HE2	1:MR:13:THR:HG21	1.94	0.50
1:MR:480:ARG:C	1:MR:482:ASP:H	2.20	0.50
1:MW:400:ARG:HD3	1:MW:403:CYS:SG	2.52	0.50
1:Mb:494:TYR:HE2	1:Mb:528:THR:HG21	1.76	0.50
1:Mw:454:TYR:HB3	1:Mw:467:TRP:CD1	2.47	0.50
1:Nb:32:LYS:NZ	1:Nb:60:GLU:OE2	2.45	0.50
1:Nc:383:LEU:HD11	1:Nc:436:TYR:CD1	2.47	0.50
1:Ne:364:ASP:HB3	1:Ne:367:SER:HB3	1.93	0.50
1:Nf:137:ASP:OD1	1:Nf:137:ASP:N	2.36	0.50
1:Nf:228:GLY:HA2	1:Nf:345:SER:HB3	1.92	0.50
1:Ng:372:LEU:HD21	1:Ng:478:CYS:HB2	1.94	0.50
2:OC:25:ILE:C	2:OC:27:TYR:H	2.18	0.50
2:OD:143:ASP:OD1	2:OD:144:TRP:N	2.44	0.50
2:OI:80:ASP:O	2:OI:84:LYS:HG3	2.12	0.50
2:OL:82:ARG:O	2:OL:86:VAL:HG13	2.12	0.50
2:Os:24:GLU:OE1	2:Os:33:THR:OG1	2.30	0.50
2:PK:104:PRO:HA	2:PK:107:TYR:CE2	2.46	0.50
2:PL:82:ARG:O	2:PL:86:VAL:HG13	2.12	0.50
2:Pk:8:ARG:O	2:RF:31:ASN:ND2	2.44	0.50
2:Pl:98:GLU:OE1	2:Pl:98:GLU:N	2.30	0.50
2:Pt:52:GLY:HA2	2:Pt:57:LYS:HB3	1.93	0.50
2:RE:83:GLN:HA	2:RE:86:VAL:HG22	1.92	0.50
2:RM:19:ASN:OD1	2:RM:19:ASN:N	2.39	0.50
2:RR:140:LEU:HD13	2:RR:153:PHE:HB3	1.93	0.50
1:K0:151:ILE:O	1:K0:155:LYS:HG2	2.12	0.50
1:K2:400:ARG:HD3	1:K2:403:CYS:SG	2.52	0.50
1:K6:394:VAL:HG11	1:K6:443:ILE:HD12	1.94	0.50
1:K7:400:ARG:HD3	1:K7:403:CYS:SG	2.52	0.50
1:L0:159:GLU:O	1:L0:162:THR:N	2.42	0.50
1:L1:94:PRO:HD3	1:L1:222:VAL:O	2.11	0.50
1:L1:375:ALA:HB1	1:L1:390:GLN:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L1:561:LYS:HG2	1:Lz:642:PHE:CZ	2.47	0.50
1:L3:480:ARG:O	1:L3:484:VAL:HG12	2.12	0.50
1:L5:137:ASP:N	1:L5:137:ASP:OD1	2.35	0.50
1:LQ:88:THR:HB	1:LQ:346:SER:HB3	1.93	0.50
1:LS:91:ASN:OD1	1:LS:91:ASN:N	2.44	0.50
1:LU:39:PHE:CE1	1:LU:86:ARG:HD2	2.46	0.50
1:LV:100:GLU:HG2	1:LV:186:LYS:O	2.12	0.50
1:LW:400:ARG:HD3	1:LW:403:CYS:SG	2.52	0.50
1:La:645:THR:OG1	1:Lb:629:ILE:O	2.26	0.50
1:Ld:33:PHE:HB2	1:Ld:82:ARG:HG3	1.94	0.50
1:Ld:485:SER:OG	1:Ld:486:GLN:N	2.43	0.50
1:Lx:641:ASN:HA	1:MS:11:LYS:O	2.12	0.50
1:M4:135:ASP:N	1:M4:139:LYS:O	2.38	0.50
1:M8:613:ASN:HA	1:M8:617:VAL:HG11	1.93	0.50
1:MR:406:LEU:HD22	1:MR:474:ILE:HG13	1.92	0.50
1:MS:488:TRP:HB3	1:MS:556:LEU:HG	1.93	0.50
1:MV:514:ARG:NH1	1:MW:366:GLU:OE2	2.44	0.50
1:MW:432:ALA:HB2	1:MW:442:ASN:HB2	1.93	0.50
1:MY:157:VAL:HG23	1:MY:159:GLU:H	1.76	0.50
1:MY:417:ILE:H	1:MY:417:ILE:HD13	1.77	0.50
1:MY:438:ASP:OD1	1:MY:438:ASP:N	2.45	0.50
1:MZ:614:THR:C	1:MZ:616:SER:H	2.20	0.50
1:Ma:166:ASN:N	1:Ma:166:ASN:OD1	2.45	0.50
1:NV:495:ASN:OD1	1:NV:495:ASN:N	2.32	0.50
1:NW:253:PRO:HG2	1:NW:255:TYR:CE1	2.47	0.50
1:NX:44:VAL:HG11	1:NX:50:LEU:HB2	1.93	0.50
1:Ni:195:LEU:HD23	1:Ni:195:LEU:H	1.76	0.50
1:Nw:119:LYS:HE3	1:Nw:122:SER:HA	1.93	0.50
1:Nx:375:ALA:HB1	1:Nx:390:GLN:HG2	1.92	0.50
1:Nz:432:ALA:HB2	1:Nz:440:ASN:ND2	2.26	0.50
2:OE:22:GLN:HB2	2:OE:116:TYR:HE2	1.77	0.50
2:OI:136:ASN:O	2:OI:136:ASN:ND2	2.45	0.50
2:OJ:99:ILE:O	2:Rp:120:ALA:HB2	2.11	0.50
2:OM:140:LEU:HD11	2:OM:151:GLN:HG2	1.93	0.50
2:Oh:55:ASN:HA	2:PD:19:ASN:HD22	1.76	0.50
2:Oi:58:ILE:HD12	2:Oj:6:VAL:HG21	1.93	0.50
2:Ot:9:ALA:O	2:PO:35:GLN:NE2	2.45	0.50
2:PC:148:ASN:N	2:PC:148:ASN:OD1	2.44	0.50
2:PD:83:GLN:HA	2:PD:86:VAL:HG22	1.92	0.50
2:Pj:131:GLY:O	2:Pj:159:LEU:HA	2.11	0.50
2:Pm:136:ASN:O	2:Pm:136:ASN:ND2	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RC:56:ARG:HB3	2:RC:56:ARG:NH1	2.26	0.50
2:RI:39:THR:HG22	2:RI:71:VAL:HG13	1.93	0.50
2:RK:124:THR:HB	2:Rp:78:ALA:HA	1.94	0.50
2:RR:143:ASP:OD1	2:RR:145:ASP:N	2.38	0.50
2:RS:143:ASP:OD1	2:RS:144:TRP:N	2.45	0.50
2:Rn:25:ILE:C	2:Rn:27:TYR:H	2.19	0.50
1:K2:32:LYS:HE2	1:K2:350:VAL:HB	1.94	0.50
1:K5:467:TRP:CZ3	1:K6:199:GLU:HB2	2.47	0.50
1:K6:430:ARG:HG3	1:K6:522:ILE:HD11	1.93	0.50
1:K6:456:TYR:CZ	1:K6:465:ASN:HB3	2.47	0.50
1:L1:273:PRO:HB3	1:L1:278:GLN:HB2	1.94	0.50
1:L3:351:THR:OG1	1:L3:352:ALA:N	2.43	0.50
1:L4:515:ASP:OD1	1:MY:5:SER:N	2.45	0.50
1:LR:91:ASN:OD1	1:LR:194:LEU:HA	2.12	0.50
1:LR:99:ILE:HA	1:LR:187:ILE:HD13	1.93	0.50
1:LZ:252:LEU:HG	1:LZ:263:SER:HB3	1.93	0.50
1:Lc:209:ASP:N	1:Lc:209:ASP:OD1	2.45	0.50
1:Lx:417:ILE:H	1:Lx:417:ILE:HD13	1.77	0.50
1:Lz:561:LYS:NZ	1:MS:12:GLU:OE2	2.37	0.50
1:M9:538:ASP:N	1:M9:538:ASP:OD1	2.44	0.50
1:MQ:39:PHE:CE1	1:MQ:86:ARG:HD2	2.47	0.50
1:MS:95:ILE:HD13	1:MS:213:ASN:HB3	1.93	0.50
1:MV:400:ARG:NH1	1:MV:403:CYS:SG	2.85	0.50
1:MW:252:LEU:HD22	1:MW:335:SER:O	2.12	0.50
1:MX:332:GLU:OE1	1:MX:332:GLU:N	2.44	0.50
1:MY:560:LEU:HD21	1:MY:601:ILE:HD11	1.94	0.50
1:MZ:140:ILE:O	1:MZ:141:LYS:NZ	2.38	0.50
1:MZ:383:LEU:HD11	1:MZ:436:TYR:CE2	2.47	0.50
1:Ma:406:LEU:HD22	1:Ma:474:ILE:HG13	1.92	0.50
1:Ma:505:LEU:HD21	1:Ma:525:VAL:HG12	1.94	0.50
1:Mc:441:PHE:CZ	1:Mc:443:ILE:HD11	2.47	0.50
1:Md:23:SER:O	1:Md:76:ASN:HB2	2.12	0.50
1:Mw:31:GLY:HA3	1:Mw:64:TYR:CD2	2.46	0.50
1:Mx:135:ASP:OD1	1:Mx:136:ALA:N	2.44	0.50
1:Mx:365:ARG:HA	1:Mx:400:ARG:NH2	2.26	0.50
1:Mz:49:ASP:O	1:Mz:53:THR:OG1	2.30	0.50
1:NV:119:LYS:HE3	1:NV:122:SER:HA	1.94	0.50
1:Nb:455:LYS:HD3	1:Nb:502:VAL:HG22	1.93	0.50
1:Ne:453:ASN:HB2	1:Ne:506:ALA:HB3	1.94	0.50
1:Nf:35:TRP:O	1:Nf:54:PHE:HA	2.11	0.50
1:Nf:115:LYS:HB3	1:Nf:172:SER:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nf:135:ASP:HB3	1:Nf:139:LYS:HB2	1.94	0.50
1:Nh:46:ASN:OD1	1:Nh:47:GLU:N	2.44	0.50
1:Ni:66:MET:HG2	1:Ni:468:VAL:HG11	1.94	0.50
1:Ni:455:LYS:NZ	1:Ni:457:GLN:OE1	2.44	0.50
1:Ni:455:LYS:HD2	1:Ni:502:VAL:HG22	1.94	0.50
1:Nv:455:LYS:NZ	1:Nv:473:ASP:OD1	2.44	0.50
1:Nw:296:SER:O	1:Nw:311:ILE:HG13	2.12	0.50
1:Nz:131:ILE:HA	1:Nz:143:ILE:HG22	1.93	0.50
2:OD:107:TYR:O	2:OD:133:TRP:HB3	2.11	0.50
2:Oj:23:VAL:HG13	2:Oj:36:CYS:SG	2.51	0.50
2:Pk:63:ASP:OD2	2:RG:147:ASN:ND2	2.45	0.50
2:Pl:82:ARG:O	2:Pl:86:VAL:HG13	2.11	0.50
2:RO:19:ASN:OD1	2:RO:19:ASN:N	2.45	0.50
2:RO:80:ASP:O	2:RO:84:LYS:HG3	2.11	0.50
2:Rm:23:VAL:HG11	2:Rm:39:THR:HG21	1.94	0.50
2:Ro:114:ARG:HG2	2:Ro:126:GLU:HG3	1.93	0.50
2:Rr:104:PRO:HA	2:Rr:107:TYR:CE2	2.47	0.50
1:K3:494:TYR:CZ	1:K4:569:LYS:HD3	2.47	0.50
1:K4:378:CYS:SG	1:K4:454:TYR:OH	2.70	0.50
1:K6:467:TRP:CZ3	1:K7:199:GLU:HB2	2.47	0.50
1:K7:107:GLY:HA3	1:K7:110:TYR:CE2	2.47	0.50
1:K8:480:ARG:C	1:K8:482:ASP:H	2.19	0.50
1:L0:478:CYS:O	1:L0:555:ARG:NH1	2.44	0.50
1:L3:423:VAL:HG13	1:L3:517:LEU:HD13	1.92	0.50
1:L4:467:TRP:CZ3	1:L5:199:GLU:HB2	2.47	0.50
1:L8:453:ASN:N	1:L8:453:ASN:OD1	2.42	0.50
1:L9:511:GLN:OE1	1:L9:514:ARG:NH2	2.45	0.50
1:LQ:28:ALA:HB2	1:LQ:370:VAL:HG21	1.94	0.50
1:LR:251:LEU:HD23	1:LR:262:ALA:HA	1.94	0.50
1:LS:593:GLN:NE2	2:RT:4:ASP:OD2	2.42	0.50
1:LY:82:ARG:NH2	1:LY:227:PRO:O	2.36	0.50
1:LZ:349:GLU:N	1:LZ:349:GLU:OE1	2.44	0.50
1:M0:379:ALA:HA	1:M0:411:ARG:HB2	1.94	0.50
1:M1:15:VAL:O	1:MW:628:TYR:OH	2.24	0.50
1:M1:378:CYS:SG	1:M1:454:TYR:OH	2.52	0.50
1:M1:378:CYS:SG	1:M1:469:PRO:HB3	2.52	0.50
1:M4:40:GLN:H	1:M4:81:VAL:HG23	1.77	0.50
1:M4:642:PHE:CE2	1:M5:564:ILE:HD11	2.47	0.50
1:M5:481:THR:HG23	1:M5:496:ARG:HD2	1.93	0.50
1:M7:112:VAL:HG22	1:M7:134:VAL:HG22	1.94	0.50
1:M8:315:PHE:HB3	1:M8:324:PHE:CD1	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MQ:100:GLU:OE2	1:MQ:186:LYS:HG3	2.12	0.50
1:MQ:410:PRO:O	1:MQ:413:THR:HG22	2.12	0.50
1:MS:641:ASN:HB2	1:MU:626:THR:HG23	1.94	0.50
1:MU:379:ALA:HB2	1:MU:469:PRO:HD3	1.93	0.50
1:Mc:390:GLN:OE1	1:Mc:407:CYS:HB3	2.12	0.50
1:Md:455:LYS:HB2	1:Md:470:LEU:HD13	1.92	0.50
1:Me:219:ILE:HG22	1:Me:255:TYR:CD2	2.46	0.50
1:Mw:400:ARG:HD3	1:Mw:403:CYS:SG	2.51	0.50
1:Mw:629:ILE:O	1:Mw:629:ILE:HG13	2.12	0.50
1:NV:135:ASP:HB3	1:NV:139:LYS:HB2	1.93	0.50
1:NZ:400:ARG:HD3	1:NZ:403:CYS:SG	2.51	0.50
1:Nd:253:PRO:HG2	1:Nd:255:TYR:CE1	2.47	0.50
1:Ne:237:GLU:OE1	1:Ne:284:ARG:NH1	2.36	0.50
1:Nj:312:ASP:N	1:Nj:312:ASP:OD1	2.45	0.50
1:Nv:392:HIS:O	1:Nv:395:SER:OG	2.22	0.50
2:OE:23:VAL:HG13	2:OE:36:CYS:SG	2.52	0.50
2:OE:97:ASN:HD22	2:RF:3:VAL:HG12	1.77	0.50
2:OG:20:LEU:HA	2:Rk:54:MET:HE3	1.93	0.50
2:Oh:56:ARG:HB3	2:Oh:56:ARG:HH11	1.76	0.50
2:Ok:14:ASP:OD1	2:Ok:17:ARG:NH2	2.45	0.50
2:Op:120:ALA:HB2	2:PJ:99:ILE:O	2.11	0.50
2:Oq:51:VAL:HG12	2:PM:150:ILE:HG21	1.94	0.50
2:PK:89:GLN:HG3	2:PK:134:PRO:HG2	1.93	0.50
2:RG:19:ASN:OD1	2:RG:19:ASN:N	2.27	0.50
2:RG:55:ASN:HA	2:Rm:19:ASN:HD22	1.77	0.50
2:RK:39:THR:HG22	2:RK:71:VAL:HG22	1.94	0.50
2:RN:143:ASP:OD1	2:RN:144:TRP:N	2.45	0.50
2:RT:83:GLN:HA	2:RT:86:VAL:HG22	1.92	0.50
2:Rl:69:TRP:HB2	2:Rl:159:LEU:HD23	1.94	0.50
1:K0:57:PRO:HB2	1:K0:62:ALA:HA	1.94	0.49
1:K0:125:ILE:HG22	1:K0:149:LYS:HG3	1.94	0.49
1:K5:215:LYS:HB2	1:K5:329:ASN:ND2	2.27	0.49
1:K6:365:ARG:HA	1:K6:400:ARG:HH21	1.77	0.49
1:L0:400:ARG:HD3	1:L0:403:CYS:SG	2.51	0.49
1:L1:137:ASP:OD1	1:L1:137:ASP:N	2.38	0.49
1:L3:560:LEU:O	1:L3:564:ILE:HG12	2.11	0.49
1:L4:195:LEU:HD23	1:L4:195:LEU:H	1.77	0.49
1:L8:607:VAL:O	1:L8:612:ASN:ND2	2.45	0.49
1:L8:617:VAL:HG22	1:L8:622:GLU:HB2	1.93	0.49
1:LR:451:ASP:CG	1:LR:452:GLY:H	2.20	0.49
1:LU:510:ARG:HG2	1:LU:511:GLN:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LW:644:ALA:O	1:LW:645:THR:OG1	2.30	0.49
1:Lb:379:ALA:HB2	1:Lb:454:TYR:CE2	2.46	0.49
1:Lc:467:TRP:HZ3	1:Ld:199:GLU:HB2	1.76	0.49
1:Ld:550:ARG:HB3	1:Ld:553:VAL:HG12	1.94	0.49
1:Le:261:ARG:NH2	1:Le:337:ILE:HG21	2.26	0.49
1:Lv:253:PRO:HG2	1:Lv:255:TYR:CE1	2.47	0.49
1:Lx:487:THR:HG21	1:Lx:559:MET:HE3	1.93	0.49
1:M0:414:VAL:HG23	1:M0:422:ALA:HB1	1.94	0.49
1:M4:617:VAL:HG13	1:M4:622:GLU:HB2	1.93	0.49
1:MR:41:ILE:HD13	1:MR:81:VAL:HB	1.94	0.49
1:MS:373:PHE:HB2	1:MS:405:VAL:HG22	1.93	0.49
1:MX:157:VAL:HG23	1:MX:159:GLU:HG3	1.94	0.49
1:Mb:346:SER:HB2	1:Mb:350:VAL:HG23	1.93	0.49
1:Mw:44:VAL:HG11	1:Mw:50:LEU:HB2	1.94	0.49
1:NV:510:ARG:HG2	1:NV:511:GLN:H	1.77	0.49
1:NX:454:TYR:HB3	1:NX:467:TRP:CD1	2.47	0.49
1:NX:572:LEU:O	1:NX:573:PHE:C	2.55	0.49
1:Na:119:LYS:NZ	1:Na:124:ASP:OD1	2.44	0.49
1:Nb:379:ALA:HA	1:Nb:411:ARG:HB2	1.94	0.49
1:Nb:572:LEU:O	1:Nb:573:PHE:C	2.55	0.49
1:Nc:368:VAL:O	1:Nc:400:ARG:NH2	2.44	0.49
1:Nc:389:VAL:O	1:Nc:393:VAL:HG23	2.12	0.49
1:Nd:119:LYS:HE3	1:Nd:122:SER:HA	1.94	0.49
1:Nf:33:PHE:HB2	1:Nf:82:ARG:HG3	1.92	0.49
1:Nf:371:GLN:OE1	1:Nf:562:THR:OG1	2.14	0.49
1:Ng:256:PRO:HG2	1:Ng:339:THR:H	1.76	0.49
1:Nh:118:VAL:HG22	1:Nh:169:ALA:HB2	1.93	0.49
1:Nz:349:GLU:N	1:Nz:349:GLU:OE1	2.44	0.49
2:OC:72:THR:HG22	2:OC:154:GLU:HG3	1.94	0.49
2:OG:23:VAL:HG11	2:OG:39:THR:HG21	1.93	0.49
2:Oh:22:GLN:OE1	2:Oh:114:ARG:NH2	2.45	0.49
2:PG:49:ILE:HG12	2:PG:60:VAL:O	2.12	0.49
2:PJ:64:ARG:NH1	2:Po:94:GLY:O	2.45	0.49
2:PK:58:ILE:HD12	2:PL:6:VAL:HG21	1.94	0.49
2:PN:23:VAL:HG11	2:PN:39:THR:HG21	1.94	0.49
2:PO:73:VAL:HB	2:PO:153:PHE:CE1	2.47	0.49
2:RH:94:GLY:HA3	2:RH:100:THR:OG1	2.12	0.49
2:RO:103:LYS:O	2:RO:106:GLU:HG2	2.12	0.49
2:Rn:91:ILE:HG22	2:Rn:107:TYR:HB3	1.93	0.49
2:Rq:114:ARG:HB3	2:Rq:123:VAL:HG13	1.94	0.49
1:K0:159:GLU:O	1:K0:162:THR:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K0:310:TYR:CE2	1:K0:312:ASP:HB2	2.46	0.49
1:K6:26:THR:HA	1:K6:77:ASP:O	2.12	0.49
1:K7:240:SER:OG	1:K7:243:ASP:OD1	2.30	0.49
1:K8:390:GLN:OE1	1:K8:407:CYS:HB3	2.12	0.49
1:L1:199:GLU:HB2	1:Lz:467:TRP:CZ3	2.46	0.49
1:L3:638:ILE:HG23	1:L4:623:PHE:HD2	1.77	0.49
1:L5:561:LYS:HD2	1:MY:10:LEU:HD13	1.94	0.49
1:L7:538:ASP:N	1:L7:538:ASP:OD1	2.44	0.49
1:L9:10:LEU:HD13	1:Le:561:LYS:HD2	1.95	0.49
1:LR:70:ASN:OD1	1:LR:457:GLN:NE2	2.42	0.49
1:LR:350:VAL:HG13	1:LR:354:ASP:HB2	1.94	0.49
1:LS:485:SER:OG	1:LS:486:GLN:N	2.45	0.49
1:LV:486:GLN:NE2	2:Rl:11:GLU:OE1	2.45	0.49
1:LY:400:ARG:HD3	1:LY:403:CYS:SG	2.52	0.49
1:La:46:ASN:OD1	1:La:47:GLU:N	2.45	0.49
1:Lb:82:ARG:NH2	1:Lb:227:PRO:O	2.45	0.49
1:Lz:117:THR:HG23	1:Lz:127:THR:HG22	1.93	0.49
1:Lz:365:ARG:HA	1:Lz:400:ARG:NH2	2.27	0.49
1:M1:644:ALA:O	1:M1:645:THR:OG1	2.30	0.49
1:M2:109:ASN:N	1:M2:138:GLY:HA3	2.26	0.49
1:M5:451:ASP:OD2	1:M5:470:LEU:HB3	2.12	0.49
1:M8:23:SER:O	1:M8:76:ASN:HB2	2.12	0.49
1:M9:82:ARG:HG2	1:M9:84:VAL:HG23	1.93	0.49
1:MQ:406:LEU:HD22	1:MQ:474:ILE:HG13	1.94	0.49
1:MR:378:CYS:SG	1:MR:469:PRO:HB3	2.52	0.49
1:MU:394:VAL:HG11	1:MU:443:ILE:HD12	1.94	0.49
1:MY:563:ASN:CG	1:MY:591:TYR:HH	2.16	0.49
1:Ma:281:ILE:HD12	1:Ma:295:LEU:HD12	1.93	0.49
1:Mb:526:THR:OG1	1:Mb:527:GLY:N	2.45	0.49
1:Md:193:ILE:HG21	1:Md:223:VAL:HG11	1.94	0.49
1:Mw:57:PRO:HG3	1:Mw:65:PHE:CD1	2.47	0.49
1:Mw:362:PHE:HD1	1:Mw:368:VAL:HG11	1.77	0.49
1:Mz:560:LEU:HD21	1:Mz:601:ILE:HD11	1.95	0.49
1:Nf:235:GLU:OE2	1:Nf:261:ARG:NH2	2.29	0.49
1:Ng:131:ILE:HD13	1:Ng:140:ILE:HG21	1.93	0.49
1:Ni:107:GLY:HA3	1:Ni:110:TYR:CE2	2.47	0.49
1:Nj:41:ILE:HD11	1:Nj:361:PHE:HB3	1.94	0.49
1:Nw:429:TRP:CZ2	1:Nw:441:PHE:HB2	2.47	0.49
2:Oh:49:ILE:HG13	2:Oh:60:VAL:HG13	1.93	0.49
2:Op:91:ILE:HG22	2:Op:107:TYR:HB3	1.95	0.49
2:Oq:69:TRP:HB2	2:Oq:159:LEU:HD23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PH:143:ASP:OD1	2:PH:144:TRP:N	2.44	0.49
2:Po:82:ARG:O	2:Po:86:VAL:HG13	2.12	0.49
2:Po:140:LEU:HD11	2:Po:151:GLN:HG2	1.92	0.49
2:Rt:94:GLY:HA3	2:Rt:100:THR:OG1	2.11	0.49
1:K0:285:ARG:HH21	1:K0:322:TYR:HE2	1.60	0.49
1:K1:456:TYR:CZ	1:K1:465:ASN:HB3	2.48	0.49
1:K2:487:THR:HG21	1:K2:559:MET:HE3	1.94	0.49
1:K4:642:PHE:CZ	1:K5:564:ILE:HD11	2.47	0.49
1:K7:166:ASN:N	1:K7:166:ASN:OD1	2.42	0.49
1:K7:559:MET:HG3	1:K7:560:LEU:N	2.26	0.49
1:K8:107:GLY:HA3	1:K8:180:ALA:HB2	1.93	0.49
1:L0:94:PRO:HG3	1:L0:338:LEU:HD13	1.94	0.49
1:L0:640:LEU:HB3	1:L0:642:PHE:HE1	1.76	0.49
1:L2:32:LYS:NZ	1:L2:60:GLU:OE2	2.45	0.49
1:L2:454:TYR:HB3	1:L2:467:TRP:CD1	2.47	0.49
1:LR:510:ARG:HG2	1:LR:511:GLN:H	1.77	0.49
1:LS:5:SER:OG	1:Nx:511:GLN:OE1	2.22	0.49
1:LY:238:ILE:HG23	1:LY:281:ILE:HD13	1.93	0.49
1:LZ:569:LYS:O	1:LZ:572:LEU:HB2	2.12	0.49
1:Lc:432:ALA:HB2	1:Lc:440:ASN:HD22	1.77	0.49
1:Lc:467:TRP:CZ3	1:Ld:199:GLU:HB2	2.48	0.49
1:Le:57:PRO:HB2	1:Le:62:ALA:HA	1.94	0.49
1:Lv:66:MET:HG2	1:Lv:468:VAL:HG21	1.95	0.49
1:Lv:365:ARG:HA	1:Lv:400:ARG:HE	1.77	0.49
1:M2:470:LEU:HD23	1:M2:525:VAL:HG21	1.94	0.49
1:M4:549:ASP:OD2	1:Nd:271:TYR:OH	2.16	0.49
1:M5:32:LYS:NZ	1:M5:60:GLU:OE2	2.38	0.49
1:M5:351:THR:HG23	1:M5:354:ASP:H	1.77	0.49
1:M5:400:ARG:HD3	1:M5:403:CYS:SG	2.52	0.49
1:MQ:375:ALA:HB3	1:MQ:407:CYS:HA	1.94	0.49
1:MR:510:ARG:HG2	1:MR:511:GLN:H	1.76	0.49
1:Ma:157:VAL:HG23	1:Ma:159:GLU:HG3	1.95	0.49
1:Mc:417:ILE:HD13	1:Mc:417:ILE:H	1.77	0.49
1:Mw:76:ASN:O	1:Mw:76:ASN:ND2	2.45	0.49
1:Mx:510:ARG:HG2	1:Mx:511:GLN:H	1.77	0.49
1:Mx:521:ALA:HB1	1:Mx:541:ALA:HA	1.94	0.49
1:Mx:655:THR:HB	1:NX:19:VAL:HG21	1.93	0.49
1:Na:430:ARG:NH2	1:Na:443:ILE:O	2.45	0.49
1:Nb:557:PHE:CE1	1:Nb:629:ILE:HD11	2.47	0.49
1:Ne:510:ARG:HG2	1:Ne:511:GLN:H	1.78	0.49
1:Nh:116:ILE:HD12	1:Nh:171:ILE:HG12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nh:509:THR:O	1:Nh:514:ARG:NH1	2.44	0.49
1:Ni:110:TYR:CZ	1:Ni:177:GLY:HA3	2.47	0.49
2:OE:58:ILE:HD12	2:OF:6:VAL:HG11	1.94	0.49
2:OE:132:LEU:HG	2:OE:157:LEU:HD22	1.94	0.49
2:OJ:120:ALA:HB1	2:Ro:1:MET:HE2	1.93	0.49
2:Oh:53:PHE:CD1	2:Oi:6:VAL:HG13	2.47	0.49
2:Oh:69:TRP:HB2	2:Oh:159:LEU:HD23	1.94	0.49
2:Oo:82:ARG:NH1	2:Oo:138:GLY:HA2	2.27	0.49
2:Oq:25:ILE:C	2:Oq:27:TYR:H	2.20	0.49
2:Pm:41:LEU:HG	2:Pm:127:ILE:HD13	1.93	0.49
2:Pm:62:GLY:O	2:Pn:118:ARG:NH2	2.45	0.49
2:Pn:56:ARG:NH1	2:Pn:56:ARG:HB3	2.27	0.49
2:Pt:94:GLY:HA3	2:Pt:100:THR:OG1	2.11	0.49
2:Rr:39:THR:HG22	2:Rr:71:VAL:HG13	1.94	0.49
1:K1:538:ASP:OD1	1:K1:538:ASP:N	2.44	0.49
1:K4:264:THR:O	1:K4:267:ALA:N	2.39	0.49
1:K4:378:CYS:SG	1:K4:469:PRO:HB3	2.52	0.49
1:K5:41:ILE:HD11	1:K5:361:PHE:HB3	1.95	0.49
1:K5:394:VAL:HG11	1:K5:443:ILE:HD12	1.93	0.49
1:K7:604:TYR:HA	1:K7:628:TYR:O	2.13	0.49
1:K8:490:SER:OG	1:K8:538:ASP:OD2	2.22	0.49
1:K9:481:THR:HG23	1:K9:496:ARG:HD2	1.95	0.49
1:L2:110:TYR:H	1:L2:138:GLY:CA	2.25	0.49
1:L5:151:ILE:O	1:L5:155:LYS:HG2	2.13	0.49
1:LS:432:ALA:HB2	1:LS:442:ASN:HB2	1.93	0.49
1:LU:284:ARG:HG2	1:LU:289:ILE:HD13	1.94	0.49
1:LX:225:LEU:HD13	1:LX:324:PHE:HB2	1.95	0.49
1:Lc:487:THR:HG21	1:Lc:559:MET:HE3	1.93	0.49
1:Lc:566:ARG:HA	1:Lc:569:LYS:HD2	1.93	0.49
1:Le:39:PHE:HB3	1:Le:361:PHE:CE1	2.47	0.49
1:Le:391:LYS:HD2	1:Le:443:ILE:HG23	1.94	0.49
1:Lw:423:VAL:HG21	1:Lw:513:GLN:HB3	1.94	0.49
1:Lw:540:THR:HG23	1:Lw:551:ILE:HG12	1.94	0.49
1:Lx:237:GLU:OE1	1:Lx:284:ARG:NH1	2.34	0.49
1:M1:438:ASP:OD1	1:M1:438:ASP:N	2.42	0.49
1:M5:64:TYR:CE2	1:M5:377:SER:HB3	2.46	0.49
1:M7:378:CYS:HB2	1:M7:410:PRO:HA	1.95	0.49
1:M7:598:LEU:HD21	2:PM:7:THR:HG22	1.94	0.49
1:M8:33:PHE:O	1:M8:82:ARG:NH2	2.45	0.49
1:M9:617:VAL:HG13	1:M9:622:GLU:HB2	1.93	0.49
1:MQ:209:ASP:O	1:MQ:213:ASN:ND2	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MQ:490:SER:O	1:MQ:496:ARG:NH1	2.44	0.49
1:MU:514:ARG:NH1	1:MV:366:GLU:OE2	2.45	0.49
1:MZ:26:THR:HA	1:MZ:77:ASP:O	2.11	0.49
1:Me:29:LEU:O	1:Me:80:VAL:HA	2.12	0.49
1:Mz:29:LEU:O	1:Mz:80:VAL:HA	2.12	0.49
1:NX:296:SER:O	1:NX:311:ILE:HG13	2.13	0.49
1:Ni:438:ASP:OD1	1:Ni:438:ASP:N	2.46	0.49
1:Ni:494:TYR:OH	1:Nj:569:LYS:NZ	2.37	0.49
1:Nj:368:VAL:O	1:Nj:400:ARG:NH2	2.45	0.49
1:Nj:455:LYS:HB2	1:Nj:470:LEU:HD13	1.95	0.49
2:OF:47:GLU:HG3	2:OF:48:LYS:H	1.77	0.49
2:OK:73:VAL:HG12	2:OK:74:MET:O	2.12	0.49
2:Oo:22:GLN:HB2	2:Oo:116:TYR:HE1	1.77	0.49
2:Oq:162:TRP:O	2:PL:95:GLN:NE2	2.38	0.49
2:PH:24:GLU:OE1	2:PH:33:THR:OG1	2.29	0.49
2:PJ:56:ARG:NH1	2:PJ:56:ARG:HB3	2.28	0.49
2:PO:131:GLY:O	2:PO:159:LEU:HA	2.12	0.49
2:Pk:91:ILE:HG22	2:Pk:107:TYR:HB3	1.93	0.49
2:Pq:41:LEU:HD22	2:RL:140:LEU:HD23	1.94	0.49
2:Pq:54:MET:HE3	2:RM:20:LEU:HA	1.94	0.49
2:Pr:28:LEU:HD22	2:Pr:84:LYS:HB3	1.95	0.49
2:RE:132:LEU:HG	2:RE:157:LEU:HD22	1.94	0.49
2:RG:140:LEU:HD11	2:RG:151:GLN:HG2	1.94	0.49
2:RI:80:ASP:O	2:RI:84:LYS:HG3	2.13	0.49
2:RJ:115:GLN:NE2	2:Ro:151:GLN:HE22	2.10	0.49
2:Rk:25:ILE:C	2:Rk:27:TYR:H	2.20	0.49
2:Ro:82:ARG:NH1	2:Ro:138:GLY:HA2	2.28	0.49
2:Rt:73:VAL:HG12	2:Rt:74:MET:O	2.11	0.49
1:K0:613:ASN:OD1	1:K0:613:ASN:N	2.46	0.49
1:K5:57:PRO:HB3	1:K5:62:ALA:HA	1.92	0.49
1:K5:485:SER:OG	1:K5:486:GLN:N	2.45	0.49
1:K6:332:GLU:OE1	1:K6:332:GLU:N	2.39	0.49
1:K8:303:ASP:OD2	1:K8:304:ILE:N	2.45	0.49
1:L0:400:ARG:HB3	1:L0:400:ARG:HH11	1.78	0.49
1:L1:494:TYR:HE2	1:L1:528:THR:HG21	1.77	0.49
1:L1:572:LEU:O	1:L1:573:PHE:C	2.56	0.49
1:L3:458:TYR:HE1	1:L4:317:LYS:HZ1	1.60	0.49
1:L4:572:LEU:O	1:L4:573:PHE:C	2.55	0.49
1:L6:82:ARG:NH2	1:L6:227:PRO:O	2.43	0.49
1:L6:432:ALA:HB2	1:L6:440:ASN:HD22	1.76	0.49
1:L8:379:ALA:HA	1:L8:411:ARG:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L9:154:ALA:HA	1:L9:157:VAL:HG22	1.94	0.49
1:L9:349:GLU:N	1:L9:349:GLU:OE1	2.46	0.49
1:L9:430:ARG:HG3	1:L9:522:ILE:HD11	1.95	0.49
1:LR:467:TRP:CZ3	1:LS:199:GLU:HB2	2.48	0.49
1:LS:237:GLU:OE1	1:LS:284:ARG:NH1	2.46	0.49
1:La:383:LEU:HD11	1:La:436:TYR:CE1	2.47	0.49
1:Ld:79:ARG:HG3	1:Ld:370:VAL:HG11	1.95	0.49
1:Lv:455:LYS:HG3	1:Lv:502:VAL:HG13	1.94	0.49
1:Lw:31:GLY:HA3	1:Lw:64:TYR:CD2	2.48	0.49
1:Lx:400:ARG:HD3	1:Lx:403:CYS:SG	2.53	0.49
1:M0:202:GLU:OE1	1:M0:203:ALA:N	2.45	0.49
1:M1:559:MET:HG3	1:M1:560:LEU:N	2.28	0.49
1:M5:470:LEU:HD21	1:M5:525:VAL:HG11	1.94	0.49
1:M6:455:LYS:HD2	1:M6:502:VAL:HG22	1.93	0.49
1:M7:253:PRO:HA	1:M7:260:THR:HG22	1.93	0.49
1:M7:512:ALA:O	1:M7:516:ARG:HG3	2.12	0.49
1:M8:153:LYS:HB3	1:M8:167:TRP:HH2	1.77	0.49
1:MR:482:ASP:OD1	1:MR:555:ARG:NH2	2.40	0.49
1:Ma:151:ILE:HG22	1:Ma:187:ILE:HG13	1.94	0.49
1:Md:100:GLU:OE2	1:Md:186:LYS:HG3	2.13	0.49
1:Me:410:PRO:O	1:Me:413:THR:HG22	2.12	0.49
1:NX:103:ILE:HD13	1:NX:182:ILE:HG22	1.95	0.49
1:NZ:107:GLY:HA3	1:NZ:110:TYR:CE2	2.47	0.49
1:NZ:110:TYR:CD1	1:NZ:177:GLY:HA3	2.48	0.49
1:NZ:264:THR:OG1	1:NZ:265:ALA:N	2.45	0.49
1:Na:373:PHE:HE1	1:Na:403:CYS:HG	1.60	0.49
1:Nb:281:ILE:HD12	1:Nb:295:LEU:HD12	1.94	0.49
1:Nc:102:THR:N	1:Nc:183:THR:O	2.43	0.49
1:Ng:459:ASP:OD2	1:Ng:466:ARG:NH1	2.45	0.49
1:Nh:213:ASN:O	1:Nh:217:TYR:HD2	1.95	0.49
1:Ni:157:VAL:HG23	1:Ni:159:GLU:H	1.76	0.49
1:Ni:241:LYS:HB2	1:Ni:273:PRO:HB2	1.95	0.49
2:OH:41:LEU:HB2	2:Om:140:LEU:HB3	1.95	0.49
2:OM:22:GLN:HB2	2:OM:116:TYR:HE1	1.78	0.49
2:ON:120:ALA:HB2	2:Or:99:ILE:O	2.12	0.49
2:Ol:137:VAL:HA	2:Ol:155:VAL:HG22	1.93	0.49
2:Op:39:THR:HG22	2:Op:71:VAL:HG22	1.95	0.49
2:Ot:104:PRO:HB3	2:Ot:108:LYS:HD2	1.94	0.49
2:PF:3:VAL:HG12	2:RE:97:ASN:HD22	1.77	0.49
2:PH:48:LYS:HB2	2:Pm:133:TRP:CZ2	2.48	0.49
2:PH:83:GLN:HA	2:PH:86:VAL:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PN:19:ASN:OD1	2:PN:19:ASN:N	2.27	0.49
2:Pi:83:GLN:HA	2:Pi:86:VAL:HG22	1.93	0.49
2:Pj:83:GLN:HA	2:Pj:86:VAL:HG22	1.94	0.49
2:RC:67:ASP:N	2:RC:67:ASP:OD1	2.46	0.49
2:RG:23:VAL:HG13	2:RG:36:CYS:SG	2.53	0.49
2:Rk:154:GLU:OE1	2:Rk:154:GLU:N	2.45	0.49
2:Rl:24:GLU:OE1	2:Rl:114:ARG:NH1	2.44	0.49
1:K1:243:ASP:OD1	1:K1:243:ASP:N	2.44	0.49
1:K3:351:THR:OG1	1:K3:352:ALA:N	2.46	0.49
1:K6:444:SER:OG	1:K6:543:SER:OG	2.14	0.49
1:K7:135:ASP:N	1:K7:139:LYS:O	2.46	0.49
1:K9:271:TYR:OH	1:Ni:549:ASP:OD2	2.26	0.49
1:L2:44:VAL:HG11	1:L2:50:LEU:HB2	1.93	0.49
1:L2:451:ASP:OD1	1:L2:452:GLY:N	2.45	0.49
1:L3:332:GLU:OE1	1:L3:332:GLU:N	2.36	0.49
1:L5:33:PHE:HA	1:L5:61:THR:HG23	1.94	0.49
1:L7:256:PRO:HG2	1:L7:339:THR:H	1.77	0.49
1:L9:131:ILE:HD11	1:L9:171:ILE:HD13	1.95	0.49
1:LQ:11:LYS:HG2	1:LQ:13:THR:HG23	1.93	0.49
1:LS:617:VAL:HA	1:LS:620:ARG:HE	1.76	0.49
1:LU:654:LEU:HD22	1:LV:605:ARG:HD3	1.93	0.49
1:LV:24:THR:C	1:LV:483:ASN:HD21	2.21	0.49
1:LX:526:THR:OG1	1:LX:527:GLY:N	2.46	0.49
1:LY:492:ALA:HB2	1:LY:535:LEU:HD13	1.94	0.49
1:LY:494:TYR:HE2	1:LY:528:THR:HG21	1.78	0.49
1:Lv:423:VAL:HG13	1:Lv:517:LEU:HD13	1.94	0.49
1:M9:561:LYS:HB3	1:Nh:10:LEU:HD13	1.95	0.49
1:MS:484:VAL:HG13	1:MS:485:SER:H	1.77	0.49
1:Ma:510:ARG:HG2	1:Ma:511:GLN:H	1.78	0.49
1:Md:639:THR:HB	1:Me:624:VAL:HG12	1.94	0.49
1:Mv:332:GLU:H	1:Mv:332:GLU:CD	2.20	0.49
1:Mw:23:SER:O	1:Mw:76:ASN:HB2	2.13	0.49
1:Mw:411:ARG:O	1:Mw:415:VAL:HB	2.12	0.49
1:Mw:505:LEU:HD21	1:Mw:525:VAL:HG12	1.94	0.49
1:Mx:642:PHE:HE1	1:Mz:564:ILE:HD11	1.76	0.49
1:NV:107:GLY:HA3	1:NV:110:TYR:HE2	1.77	0.49
1:NW:26:THR:HA	1:NW:77:ASP:O	2.12	0.49
1:NX:643:VAL:HG13	1:Nx:14:THR:HA	1.94	0.49
1:NZ:641:ASN:HB2	1:Na:626:THR:HG22	1.95	0.49
1:Nd:494:TYR:CZ	1:Ne:569:LYS:HD3	2.48	0.49
1:Ne:296:SER:O	1:Ne:311:ILE:HG13	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ng:451:ASP:HB2	1:Ng:474:ILE:HD13	1.94	0.49
1:Nh:246:LYS:HB2	1:Nh:250:ALA:HB2	1.94	0.49
1:Nv:119:LYS:HA	1:Nv:124:ASP:HA	1.95	0.49
1:Nv:244:TYR:CZ	1:Nv:266:LYS:HD2	2.47	0.49
1:Nz:389:VAL:O	1:Nz:393:VAL:HG23	2.13	0.49
2:PF:52:GLY:HA2	2:PF:57:LYS:HB3	1.95	0.49
2:PF:113:VAL:HG13	2:PF:127:ILE:HG12	1.94	0.49
2:Ph:67:ASP:OD1	2:Ph:67:ASP:N	2.36	0.49
2:RF:124:THR:HB	2:Rk:78:ALA:HA	1.95	0.49
2:RM:25:ILE:C	2:RM:27:TYR:H	2.20	0.49
2:RR:69:TRP:HB2	2:RR:159:LEU:HD22	1.95	0.49
2:Rs:23:VAL:HG11	2:Rs:39:THR:HG21	1.94	0.49
1:K0:477:LEU:HD21	1:K0:497:GLY:HA2	1.94	0.49
1:K2:432:ALA:CB	1:K2:440:ASN:HD22	2.25	0.49
1:K3:373:PHE:HB2	1:K3:405:VAL:HG22	1.94	0.49
1:K5:413:THR:OG1	1:K5:425:ASN:HB3	2.13	0.49
1:L0:273:PRO:HB3	1:L0:278:GLN:HB2	1.94	0.49
1:L1:253:PRO:HG2	1:L1:255:TYR:HE1	1.76	0.49
1:L3:8:ILE:HD13	1:LY:569:LYS:NZ	2.27	0.49
1:L3:417:ILE:HD13	1:L3:417:ILE:H	1.77	0.49
1:L9:137:ASP:OD1	1:L9:137:ASP:N	2.40	0.49
1:LR:126:GLU:HA	1:LR:149:LYS:HD2	1.93	0.49
1:LS:481:THR:HG23	1:LS:496:ARG:HD2	1.93	0.49
1:LZ:455:LYS:HB3	1:LZ:470:LEU:HD11	1.94	0.49
1:La:159:GLU:HB3	1:La:163:LEU:HA	1.94	0.49
1:Lc:571:ARG:NH2	1:Lc:587:GLU:OE1	2.33	0.49
1:Ld:32:LYS:HD3	1:Ld:64:TYR:HE2	1.78	0.49
1:Lx:410:PRO:O	1:Lx:413:THR:HG22	2.12	0.49
1:Lz:240:SER:OG	1:Lz:335:SER:OG	2.29	0.49
1:M4:406:LEU:HD13	1:M4:475:ALA:HB2	1.94	0.49
1:M5:560:LEU:HD22	1:M5:629:ILE:HD13	1.95	0.49
1:M6:332:GLU:OE1	1:M6:332:GLU:N	2.40	0.49
1:M9:213:ASN:O	1:M9:217:TYR:HD2	1.96	0.49
1:MQ:467:TRP:CZ3	1:MR:199:GLU:HB2	2.48	0.49
1:MR:26:THR:HA	1:MR:77:ASP:O	2.12	0.49
1:MS:346:SER:O	1:MS:350:VAL:HG23	2.12	0.49
1:MU:269:PHE:CE2	1:MU:280:ALA:HB1	2.48	0.49
1:MZ:102:THR:HB	1:MZ:183:THR:HB	1.95	0.49
1:MZ:480:ARG:O	1:MZ:482:ASP:N	2.45	0.49
1:Ma:378:CYS:HG	1:Ma:454:TYR:HH	1.60	0.49
1:Ma:451:ASP:CG	1:Ma:452:GLY:H	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mc:264:THR:O	1:Mc:266:LYS:N	2.46	0.49
1:Md:37:PRO:HG2	1:Md:42:LYS:HD3	1.93	0.49
1:Me:74:TYR:OH	1:Me:473:ASP:OD2	2.17	0.49
1:Me:107:GLY:HA3	1:Me:110:TYR:CE2	2.48	0.49
1:Mv:284:ARG:HG2	1:Mv:289:ILE:HD13	1.94	0.49
1:Mw:441:PHE:CZ	1:Mw:443:ILE:HD11	2.47	0.49
1:Mw:510:ARG:HH12	1:Mw:513:GLN:HE21	1.59	0.49
1:Mx:485:SER:OG	1:Mx:486:GLN:N	2.46	0.49
1:Mz:109:ASN:N	1:Mz:109:ASN:OD1	2.45	0.49
1:NX:601:ILE:HG23	1:NX:630:GLN:H	1.78	0.49
1:Na:82:ARG:NH2	1:Na:227:PRO:O	2.37	0.49
1:Nf:455:LYS:HD2	1:Nf:502:VAL:HG22	1.95	0.49
1:Nv:44:VAL:HG11	1:Nv:50:LEU:HB2	1.94	0.49
1:Nx:35:TRP:O	1:Nx:54:PHE:HA	2.12	0.49
1:Nz:32:LYS:HE2	1:Nz:350:VAL:HB	1.95	0.49
1:Nz:486:GLN:NE2	2:RF:11:GLU:OE1	2.45	0.49
2:Oh:8:ARG:HD2	2:PC:34:PHE:CE2	2.48	0.49
2:Ol:91:ILE:HG22	2:Ol:107:TYR:HB3	1.95	0.49
2:Pl:8:ARG:HD2	2:RG:34:PHE:CE2	2.48	0.49
2:RC:113:VAL:HG13	2:RC:127:ILE:HG23	1.94	0.49
2:RT:107:TYR:O	2:RT:133:TRP:HB3	2.12	0.49
2:RT:136:ASN:O	2:RT:136:ASN:ND2	2.43	0.49
2:Rn:41:LEU:HG	2:Rn:127:ILE:HD13	1.95	0.49
2:Rq:134:PRO:HA	2:Rq:157:LEU:HA	1.93	0.49
1:K0:272:GLY:O	1:K0:274:GLN:NE2	2.45	0.49
1:K2:640:LEU:HD23	1:K3:625:ALA:HB3	1.95	0.49
1:K4:36:GLY:O	1:K4:82:ARG:NH1	2.44	0.49
1:K5:28:ALA:HB2	1:K5:370:VAL:HG21	1.95	0.49
1:K5:410:PRO:O	1:K5:413:THR:HG22	2.12	0.49
1:K9:137:ASP:N	1:K9:137:ASP:OD1	2.44	0.49
1:L1:35:TRP:O	1:L1:54:PHE:HA	2.13	0.49
1:L1:303:ASP:OD1	1:L1:304:ILE:N	2.46	0.49
1:L5:480:ARG:C	1:L5:482:ASP:H	2.21	0.49
1:L8:467:TRP:HZ3	1:L9:199:GLU:HB2	1.77	0.49
1:L9:39:PHE:HB3	1:L9:361:PHE:CE1	2.48	0.49
1:LQ:490:SER:O	1:LQ:496:ARG:NH1	2.46	0.49
1:LS:635:ILE:HD13	1:LU:623:PHE:HB2	1.94	0.49
1:LW:645:THR:HB	1:LW:650:ASP:OD1	2.12	0.49
1:LX:107:GLY:HA3	1:LX:110:TYR:CE2	2.48	0.49
1:LX:389:VAL:O	1:LX:393:VAL:HG23	2.13	0.49
1:LZ:281:ILE:HG13	1:LZ:295:LEU:HD12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lc:57:PRO:HB3	1:Lc:62:ALA:HA	1.94	0.49
1:Le:478:CYS:O	1:Le:555:ARG:NH1	2.42	0.49
1:Lv:119:LYS:HE3	1:Lv:122:SER:HA	1.94	0.49
1:Lw:64:TYR:CE2	1:Lw:377:SER:HB3	2.48	0.49
1:Lx:91:ASN:OD1	1:Lx:194:LEU:HA	2.12	0.49
1:MR:253:PRO:HG2	1:MR:255:TYR:CE1	2.47	0.49
1:MS:617:VAL:HG22	1:MS:622:GLU:HB2	1.94	0.49
1:MV:229:GLU:OE2	1:MV:345:SER:OG	2.30	0.49
1:MV:378:CYS:HB2	1:MV:410:PRO:HA	1.94	0.49
1:MW:642:PHE:HE2	1:MX:564:ILE:HD11	1.78	0.49
1:MY:34:GLN:OE1	1:MY:58:THR:OG1	2.31	0.49
1:Mc:100:GLU:OE2	1:Mc:186:LYS:HG3	2.12	0.49
1:Mc:209:ASP:OD1	1:Mc:209:ASP:N	2.46	0.49
1:Me:135:ASP:N	1:Me:139:LYS:O	2.45	0.49
1:Mw:46:ASN:OD1	1:Mw:47:GLU:N	2.46	0.49
1:Mz:36:GLY:O	1:Mz:82:ARG:NH1	2.45	0.49
1:NW:11:LYS:HG2	1:NW:13:THR:HG23	1.94	0.49
1:NW:468:VAL:HG12	1:NW:469:PRO:O	2.13	0.49
1:Ne:518:TYR:CZ	1:Ne:539:LYS:HG3	2.48	0.49
1:Nh:28:ALA:HB2	1:Nh:370:VAL:HG21	1.94	0.49
1:Nh:117:THR:HG23	1:Nh:127:THR:HG22	1.95	0.49
1:Nw:151:ILE:O	1:Nw:155:LYS:HG2	2.13	0.49
1:Nx:233:LYS:NZ	1:Nx:286:ASN:OD1	2.28	0.49
1:Nz:44:VAL:HG11	1:Nz:50:LEU:HB2	1.94	0.49
2:OE:51:VAL:HG12	2:Ok:150:ILE:HG21	1.94	0.49
2:OH:27:TYR:CD1	2:OH:109:LYS:HE2	2.47	0.49
2:Om:113:VAL:HG13	2:Om:127:ILE:HG12	1.95	0.49
2:PJ:1:MET:SD	2:Po:22:GLN:NE2	2.86	0.49
2:Ps:91:ILE:HG22	2:Ps:107:TYR:HB3	1.95	0.49
2:RD:83:GLN:HA	2:RD:86:VAL:HG22	1.93	0.49
1:K4:394:VAL:HG11	1:K4:443:ILE:HD12	1.94	0.49
1:K5:44:VAL:HG11	1:K5:50:LEU:HB2	1.93	0.49
1:K6:486:GLN:NE2	2:RL:11:GLU:OE1	2.46	0.49
1:K8:44:VAL:HG11	1:K8:50:LEU:HB2	1.93	0.49
1:L0:28:ALA:HB2	1:L0:370:VAL:HG21	1.95	0.49
1:L0:125:ILE:HG22	1:L0:149:LYS:HG3	1.95	0.49
1:L2:572:LEU:O	1:L2:573:PHE:C	2.56	0.49
1:L7:31:GLY:HA3	1:L7:64:TYR:CD2	2.48	0.49
1:L8:639:THR:HB	1:L9:624:VAL:HG12	1.93	0.49
1:LQ:444:SER:OG	1:LQ:543:SER:OG	2.16	0.49
1:LR:10:LEU:HD13	1:Nx:561:LYS:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LR:253:PRO:HG2	1:LR:255:TYR:CE1	2.47	0.49
1:La:110:TYR:H	1:La:138:GLY:CA	2.26	0.49
1:Lw:560:LEU:HD21	1:Lw:601:ILE:HD11	1.95	0.49
1:Lz:137:ASP:OD1	1:Lz:137:ASP:N	2.44	0.49
1:Lz:400:ARG:NH1	1:Lz:403:CYS:HG	2.10	0.49
1:M0:151:ILE:O	1:M0:155:LYS:HG2	2.13	0.49
1:M0:518:TYR:CE2	1:Nj:6:PRO:HD3	2.48	0.49
1:M3:378:CYS:SG	1:M3:469:PRO:HB3	2.53	0.49
1:M9:549:ASP:O	1:M9:550:ARG:NE	2.35	0.49
1:MQ:39:PHE:HE1	1:MQ:86:ARG:HD2	1.78	0.49
1:MQ:368:VAL:O	1:MQ:400:ARG:NH2	2.46	0.49
1:MS:549:ASP:OD2	1:Mx:271:TYR:OH	2.18	0.49
1:MV:137:ASP:OD1	1:MV:137:ASP:N	2.43	0.49
1:MV:451:ASP:CG	1:MV:452:GLY:H	2.20	0.49
1:MX:505:LEU:HD21	1:MX:525:VAL:HG12	1.94	0.49
1:MY:350:VAL:HG13	1:MY:354:ASP:HB2	1.94	0.49
1:Ma:467:TRP:CZ3	1:Mb:199:GLU:HB2	2.47	0.49
1:Mc:505:LEU:HD22	1:Mc:533:TYR:HD2	1.77	0.49
1:Me:2:THR:OG1	1:Me:3:LEU:N	2.42	0.49
1:Me:368:VAL:HB	1:Me:400:ARG:HH21	1.78	0.49
1:Me:450:ILE:HD13	1:Me:522:ILE:HG12	1.95	0.49
1:Mv:253:PRO:HG2	1:Mv:255:TYR:CE1	2.48	0.49
1:Mx:394:VAL:HG11	1:Mx:443:ILE:HD12	1.94	0.49
1:Mx:572:LEU:O	1:Mx:573:PHE:C	2.56	0.49
1:NV:135:ASP:OD1	1:NV:136:ALA:N	2.46	0.49
1:NX:23:SER:O	1:NX:76:ASN:HB2	2.13	0.49
1:Nb:383:LEU:HD22	1:Nb:439:ASN:HB3	1.95	0.49
1:Ne:438:ASP:OD1	1:Ne:438:ASP:N	2.42	0.49
1:Ng:605:ARG:HH12	1:Ng:607:VAL:HG22	1.77	0.49
1:Nh:281:ILE:HG13	1:Nh:295:LEU:HD12	1.93	0.49
1:Ni:291:GLN:NE2	1:Ni:320:SER:OG	2.31	0.49
1:Ni:332:GLU:OE1	1:Ni:332:GLU:N	2.33	0.49
1:Nz:41:ILE:HD11	1:Nz:361:PHE:HB3	1.93	0.49
2:OO:70:THR:HG22	2:OO:156:THR:HG22	1.95	0.49
2:Ok:98:GLU:CD	2:Ok:98:GLU:H	2.20	0.49
2:On:131:GLY:O	2:On:159:LEU:HA	2.12	0.49
2:Os:38:ALA:HB3	2:Os:72:THR:HG23	1.94	0.49
2:PH:46:VAL:HG22	2:PH:64:ARG:HB2	1.94	0.49
2:RL:107:TYR:O	2:RL:133:TRP:HB3	2.13	0.49
2:RM:58:ILE:HD11	2:RN:6:VAL:HG21	1.94	0.49
1:K0:278:GLN:HG2	1:K0:296:SER:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K1:228:GLY:HA2	1:K1:345:SER:HB3	1.94	0.49
1:K8:510:ARG:HG2	1:K8:511:GLN:H	1.77	0.49
1:L1:577:ASN:C	1:L1:581:ARG:HH21	2.21	0.49
1:L2:332:GLU:H	1:L2:332:GLU:CD	2.21	0.49
1:L8:454:TYR:HB3	1:L8:467:TRP:CD1	2.48	0.49
1:L9:315:PHE:HB3	1:L9:324:PHE:CD1	2.48	0.49
1:LR:423:VAL:O	1:LR:427:VAL:HG23	2.12	0.49
1:LS:430:ARG:HH21	1:LS:541:ALA:HB1	1.78	0.49
1:LS:614:THR:C	1:LS:616:SER:H	2.21	0.49
1:LV:269:PHE:CE2	1:LV:280:ALA:HB1	2.47	0.49
1:LV:402:ASP:O	1:LV:558:ASN:ND2	2.46	0.49
1:LY:391:LYS:NZ	1:LY:440:ASN:OD1	2.46	0.49
1:La:394:VAL:HG11	1:La:443:ILE:HD12	1.95	0.49
1:Le:109:ASN:N	1:Le:138:GLY:HA3	2.27	0.49
1:Le:417:ILE:H	1:Le:417:ILE:HD13	1.77	0.49
1:Lv:28:ALA:HB2	1:Lv:370:VAL:HG21	1.94	0.49
1:Lv:384:GLU:O	1:Lv:388:THR:OG1	2.26	0.49
1:Lv:571:ARG:NH2	1:Lv:587:GLU:OE1	2.45	0.49
1:M0:102:THR:N	1:M0:183:THR:O	2.42	0.49
1:M4:153:LYS:HB3	1:M4:167:TRP:HH2	1.77	0.49
1:MQ:110:TYR:CD1	1:MQ:177:GLY:HA3	2.47	0.49
1:MQ:455:LYS:NZ	1:MQ:457:GLN:OE1	2.46	0.49
1:MS:211:GLN:HE22	1:MS:328:GLN:HB3	1.77	0.49
1:MX:591:TYR:HD2	1:MX:592:LEU:HD12	1.78	0.49
1:MZ:103:ILE:HD13	1:MZ:182:ILE:HG22	1.95	0.49
1:Md:494:TYR:CE2	1:Me:569:LYS:HD3	2.48	0.49
1:Md:510:ARG:HE	1:Me:363:ALA:HB3	1.78	0.49
1:Mx:134:VAL:HG12	1:Mx:140:ILE:HG22	1.95	0.49
1:NW:199:GLU:OE2	1:NW:200:ASN:ND2	2.28	0.49
1:NZ:135:ASP:OD1	1:NZ:136:ALA:N	2.42	0.49
1:Nb:510:ARG:HG2	1:Nb:511:GLN:H	1.78	0.49
1:Nh:505:LEU:HD22	1:Nh:533:TYR:CD2	2.48	0.49
1:Nh:572:LEU:O	1:Nh:573:PHE:C	2.56	0.49
1:Nw:110:TYR:CE1	1:Nw:171:ILE:HD12	2.48	0.49
2:OJ:64:ARG:HH12	2:Oo:94:GLY:C	2.21	0.49
2:OO:52:GLY:HA2	2:OO:57:LYS:HB3	1.95	0.49
2:Oh:82:ARG:NH1	2:Oh:138:GLY:HA2	2.21	0.49
2:Ol:83:GLN:HA	2:Ol:86:VAL:HG22	1.95	0.49
2:RJ:54:MET:HE3	2:Rp:20:LEU:HA	1.94	0.49
2:RL:136:ASN:HB3	2:RL:156:THR:HG23	1.94	0.49
2:RN:48:LYS:HG3	2:RN:59:ASN:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K0:271:TYR:OH	1:Nj:549:ASP:OD2	2.24	0.48
1:K1:440:ASN:OD1	1:K1:440:ASN:N	2.46	0.48
1:K2:423:VAL:HG13	1:K2:517:LEU:HD13	1.95	0.48
1:K2:480:ARG:O	1:K2:484:VAL:HG12	2.13	0.48
1:K3:315:PHE:HB3	1:K3:324:PHE:CD1	2.47	0.48
1:K5:57:PRO:HG3	1:K5:65:PHE:CD1	2.48	0.48
1:K6:228:GLY:HA2	1:K6:345:SER:HB3	1.95	0.48
1:K7:315:PHE:CE2	1:K7:325:ALA:HB3	2.47	0.48
1:K9:26:THR:HB	1:K9:77:ASP:HB3	1.94	0.48
1:L0:83:ALA:HB2	1:L0:358:ALA:HB2	1.95	0.48
1:L0:459:ASP:OD2	1:L0:466:ARG:NH1	2.43	0.48
1:L5:8:ILE:HD13	1:La:569:LYS:HZ3	1.78	0.48
1:L6:441:PHE:CZ	1:L6:443:ILE:HD11	2.47	0.48
1:L7:409:PRO:HB3	1:L7:426:LEU:HD21	1.94	0.48
1:L9:151:ILE:O	1:L9:155:LYS:HG2	2.13	0.48
1:L9:617:VAL:HG22	1:L9:622:GLU:HB2	1.95	0.48
1:LZ:11:LYS:HG2	1:LZ:13:THR:HG23	1.94	0.48
1:LZ:239:VAL:HG22	1:LZ:280:ALA:HB3	1.94	0.48
1:LZ:269:PHE:CE2	1:LZ:280:ALA:HB1	2.48	0.48
1:Ld:450:ILE:HD13	1:Ld:522:ILE:HG12	1.95	0.48
1:Lv:383:LEU:HD11	1:Lv:436:TYR:CE2	2.48	0.48
1:Lw:379:ALA:HA	1:Lw:411:ARG:HB2	1.95	0.48
1:Lz:28:ALA:HB2	1:Lz:370:VAL:HG21	1.94	0.48
1:Lz:549:ASP:O	1:Lz:550:ARG:NE	2.46	0.48
1:M0:33:PHE:O	1:M0:82:ARG:NH2	2.45	0.48
1:M2:332:GLU:H	1:M2:332:GLU:CD	2.20	0.48
1:M4:467:TRP:CH2	1:M5:199:GLU:HB2	2.48	0.48
1:M8:57:PRO:HB3	1:M8:62:ALA:HA	1.95	0.48
1:M9:151:ILE:O	1:M9:155:LYS:HG2	2.13	0.48
1:MQ:108:SER:O	1:MQ:177:GLY:HA2	2.13	0.48
1:MR:154:ALA:HA	1:MR:157:VAL:HG22	1.95	0.48
1:MU:253:PRO:HG2	1:MU:255:TYR:CE1	2.47	0.48
1:MY:91:ASN:OD1	1:MY:194:LEU:HA	2.13	0.48
1:Ma:236:ILE:HD11	1:Ma:323:ILE:HG21	1.95	0.48
1:Mc:29:LEU:O	1:Mc:80:VAL:HA	2.12	0.48
1:Mc:256:PRO:HG2	1:Mc:339:THR:H	1.78	0.48
1:Md:526:THR:OG1	1:Me:366:GLU:OE2	2.19	0.48
1:Mv:43:GLN:OE1	1:Mv:79:ARG:NH1	2.42	0.48
1:Mw:47:GLU:OE1	1:Mw:461:TYR:OH	2.31	0.48
1:NX:110:TYR:H	1:NX:138:GLY:CA	2.26	0.48
1:NX:119:LYS:HA	1:NX:123:ASP:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nc:642:PHE:CE2	1:Nd:561:LYS:HG2	2.48	0.48
1:Ne:29:LEU:O	1:Ne:80:VAL:HA	2.11	0.48
1:Ng:455:LYS:HD3	1:Ng:502:VAL:HG22	1.95	0.48
1:Nj:109:ASN:N	1:Nj:138:GLY:HA3	2.28	0.48
1:Nw:526:THR:OG1	1:Nx:366:GLU:OE2	2.31	0.48
1:Nx:510:ARG:HG2	1:Nx:511:GLN:H	1.77	0.48
2:OD:56:ARG:HH12	2:Oi:66:PHE:HE2	1.58	0.48
2:OD:147:ASN:N	2:OD:147:ASN:OD1	2.46	0.48
2:Oi:83:GLN:HA	2:Oi:86:VAL:HG22	1.95	0.48
2:Op:1:MET:HE2	2:Op:1:MET:HB3	1.68	0.48
2:Os:39:THR:HG22	2:Os:71:VAL:HG13	1.95	0.48
2:PL:54:MET:HE3	2:Pr:20:LEU:HA	1.94	0.48
2:PN:107:TYR:O	2:PN:133:TRP:HB3	2.13	0.48
2:Pj:41:LEU:HG	2:Pj:127:ILE:HD13	1.94	0.48
2:Pk:103:LYS:O	2:Pk:106:GLU:HG2	2.12	0.48
2:Pt:19:ASN:OD1	2:Pt:19:ASN:N	2.28	0.48
2:RH:83:GLN:HA	2:RH:86:VAL:HG22	1.94	0.48
2:Rp:104:PRO:HA	2:Rp:107:TYR:CE2	2.48	0.48
1:K1:238:ILE:HG12	1:K1:281:ILE:HD13	1.95	0.48
1:K1:240:SER:OG	1:K1:243:ASP:OD1	2.32	0.48
1:K5:209:ASP:N	1:K5:209:ASP:OD1	2.46	0.48
1:K8:518:TYR:CZ	1:K8:539:LYS:HD3	2.49	0.48
1:L0:151:ILE:O	1:L0:155:LYS:HG2	2.13	0.48
1:L3:43:GLN:OE1	1:L3:79:ARG:NH1	2.45	0.48
1:L3:378:CYS:HB2	1:L3:410:PRO:HA	1.95	0.48
1:L7:209:ASP:OD1	1:L7:210:PHE:N	2.46	0.48
1:LQ:252:LEU:HG	1:LQ:263:SER:HB3	1.95	0.48
1:LQ:526:THR:OG1	1:LR:366:GLU:OE1	2.31	0.48
1:LR:409:PRO:HB3	1:LR:426:LEU:HD21	1.95	0.48
1:LX:456:TYR:O	1:LX:503:ILE:HG12	2.14	0.48
1:LY:505:LEU:HD21	1:LY:525:VAL:HG12	1.94	0.48
1:La:406:LEU:HD22	1:La:474:ILE:HG13	1.94	0.48
1:Le:607:VAL:HG12	1:Le:612:ASN:OD1	2.12	0.48
1:Lz:450:ILE:HD13	1:Lz:522:ILE:HG12	1.95	0.48
1:Lz:487:THR:HG21	1:Lz:559:MET:HE3	1.95	0.48
1:M2:417:ILE:HD13	1:M2:417:ILE:H	1.79	0.48
1:M3:142:LYS:HE2	1:M3:142:LYS:HB2	1.60	0.48
1:M4:36:GLY:O	1:M4:82:ARG:NH1	2.45	0.48
1:M4:70:ASN:OD1	1:M4:457:GLN:NE2	2.45	0.48
1:M4:417:ILE:HG22	1:M4:418:PRO:HD2	1.94	0.48
1:M5:93:SER:HB3	1:M5:191:SER:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M5:371:GLN:OE1	1:M5:562:THR:OG1	2.18	0.48
1:M8:417:ILE:HD13	1:M8:417:ILE:H	1.77	0.48
1:M9:135:ASP:OD1	1:M9:136:ALA:N	2.46	0.48
1:MQ:105:THR:HB	1:MQ:181:VAL:H	1.78	0.48
1:MW:36:GLY:O	1:MW:82:ARG:NH1	2.43	0.48
1:Ma:451:ASP:OD2	1:Ma:470:LEU:HB3	2.13	0.48
1:Mb:247:GLY:HA2	1:Mb:266:LYS:HG3	1.94	0.48
1:Mb:510:ARG:HG2	1:Mb:511:GLN:H	1.76	0.48
1:Me:310:TYR:CE2	1:Me:312:ASP:HB2	2.48	0.48
1:Mv:394:VAL:HG11	1:Mv:443:ILE:HD12	1.95	0.48
1:Mw:346:SER:O	1:Mw:350:VAL:HG23	2.13	0.48
1:Mz:400:ARG:HD3	1:Mz:403:CYS:SG	2.53	0.48
1:NV:244:TYR:CE1	1:NV:266:LYS:HG2	2.48	0.48
1:NV:302:LYS:O	1:NV:307:SER:N	2.46	0.48
1:NZ:454:TYR:HB3	1:NZ:467:TRP:CD1	2.48	0.48
1:NZ:480:ARG:O	1:NZ:484:VAL:HG12	2.13	0.48
1:Nb:135:ASP:OD1	1:Nb:136:ALA:N	2.46	0.48
1:Nb:235:GLU:OE2	1:Nb:261:ARG:NH1	2.36	0.48
1:Nf:650:ASP:C	1:Nf:652:ASP:H	2.21	0.48
1:Ng:66:MET:HG2	1:Ng:468:VAL:HG21	1.95	0.48
1:Nv:166:ASN:OD1	1:Nv:166:ASN:N	2.33	0.48
1:Nx:220:PRO:HG2	1:Nx:338:LEU:HD11	1.94	0.48
1:Nz:135:ASP:OD1	1:Nz:136:ALA:N	2.46	0.48
2:OD:116:TYR:CE1	2:OD:123:VAL:HG22	2.47	0.48
2:OM:115:GLN:OE1	2:Or:151:GLN:NE2	2.45	0.48
2:Ol:55:ASN:HA	2:PH:19:ASN:HD22	1.78	0.48
2:Pt:39:THR:HG22	2:Pt:71:VAL:HG22	1.94	0.48
2:RC:8:ARG:HD2	2:RR:34:PHE:CE2	2.48	0.48
2:RC:104:PRO:O	2:RC:108:LYS:HB2	2.14	0.48
2:RM:82:ARG:NH1	2:RM:138:GLY:HA2	2.28	0.48
2:RT:46:VAL:HG22	2:RT:64:ARG:HB3	1.95	0.48
2:Ro:10:PHE:HD2	2:Ro:14:ASP:H	1.61	0.48
1:K2:454:TYR:HB3	1:K2:467:TRP:CD1	2.47	0.48
1:K5:538:ASP:OD1	1:K5:538:ASP:N	2.45	0.48
1:K6:459:ASP:HB2	1:K6:466:ARG:HD2	1.96	0.48
1:K8:105:THR:HB	1:K8:181:VAL:H	1.79	0.48
1:L1:467:TRP:CZ3	1:L2:199:GLU:HB2	2.47	0.48
1:L2:41:ILE:HD11	1:L2:361:PHE:HB3	1.95	0.48
1:L3:296:SER:O	1:L3:311:ILE:HG13	2.13	0.48
1:L5:410:PRO:O	1:L5:413:THR:HG22	2.14	0.48
1:L6:37:PRO:HG2	1:L6:42:LYS:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L7:378:CYS:HB2	1:L7:410:PRO:HA	1.95	0.48
1:LQ:39:PHE:HB3	1:LQ:361:PHE:CE2	2.48	0.48
1:LS:29:LEU:O	1:LS:80:VAL:HA	2.12	0.48
1:LU:271:TYR:OH	1:Nz:549:ASP:OD2	2.12	0.48
1:LV:125:ILE:HD11	1:LV:153:LYS:NZ	2.28	0.48
1:LV:559:MET:HG3	1:LV:560:LEU:N	2.27	0.48
1:La:383:LEU:HD11	1:La:436:TYR:HE1	1.78	0.48
1:La:642:PHE:CE1	1:Lb:564:ILE:HD11	2.48	0.48
1:Ld:296:SER:O	1:Ld:311:ILE:HG13	2.13	0.48
1:Ld:612:ASN:HB3	1:Ld:624:VAL:HG23	1.95	0.48
1:Le:453:ASN:N	1:Le:453:ASN:OD1	2.44	0.48
1:M0:40:GLN:H	1:M0:81:VAL:HG23	1.79	0.48
1:M1:10:LEU:HD13	1:MW:561:LYS:HD2	1.95	0.48
1:M3:119:LYS:NZ	1:M3:124:ASP:OD1	2.46	0.48
1:M6:612:ASN:HB3	1:M6:624:VAL:HG23	1.94	0.48
1:MU:505:LEU:HA	1:MU:505:LEU:HD12	1.69	0.48
1:MX:456:TYR:O	1:MX:503:ILE:HG12	2.13	0.48
1:Mx:107:GLY:HA3	1:Mx:110:TYR:CE2	2.46	0.48
1:NW:406:LEU:HD13	1:NW:475:ALA:HB2	1.93	0.48
1:NX:639:THR:HB	1:NZ:624:VAL:HG12	1.95	0.48
1:NZ:11:LYS:HG2	1:NZ:13:THR:HG23	1.95	0.48
1:NZ:160:TYR:CE2	1:NZ:161:PRO:HB3	2.48	0.48
1:Nf:240:SER:HA	1:Nf:279:TYR:HD1	1.78	0.48
1:Nf:495:ASN:OD1	1:Nf:495:ASN:N	2.43	0.48
1:Ng:46:ASN:OD1	1:Ng:47:GLU:N	2.46	0.48
1:Ng:368:VAL:O	1:Ng:400:ARG:NH2	2.47	0.48
1:Nh:332:GLU:CD	1:Nh:332:GLU:H	2.22	0.48
1:Nh:571:ARG:HH12	1:Nh:584:PHE:HA	1.79	0.48
1:Ni:131:ILE:HG12	1:Ni:143:ILE:HG22	1.95	0.48
1:Nx:373:PHE:HB2	1:Nx:405:VAL:HG22	1.96	0.48
2:OL:53:PHE:CD1	2:OM:6:VAL:HG12	2.48	0.48
2:OM:142:LEU:HD22	2:Rr:41:LEU:HD13	1.96	0.48
2:Ok:24:GLU:OE1	2:Ok:114:ARG:NH1	2.45	0.48
2:Om:19:ASN:OD1	2:Om:19:ASN:N	2.47	0.48
2:Oq:142:LEU:HD11	2:Oq:151:GLN:HE21	1.77	0.48
2:PD:107:TYR:O	2:PD:133:TRP:HB3	2.13	0.48
2:PE:27:TYR:CD1	2:PE:109:LYS:HE2	2.49	0.48
2:PJ:27:TYR:CE1	2:PJ:109:LYS:HE2	2.49	0.48
2:Pj:46:VAL:HG22	2:Pj:64:ARG:HE	1.78	0.48
2:RC:25:ILE:C	2:RC:27:TYR:H	2.20	0.48
2:RL:41:LEU:HB2	2:Rq:140:LEU:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K0:110:TYR:CE1	1:K0:171:ILE:HD12	2.49	0.48
1:K1:116:ILE:N	1:K1:129:GLY:O	2.46	0.48
1:K1:353:GLY:HA2	1:K1:356:MET:HE2	1.96	0.48
1:K2:312:ASP:N	1:K2:312:ASP:OD1	2.46	0.48
1:K2:453:ASN:HB2	1:K2:506:ALA:HB3	1.93	0.48
1:K8:135:ASP:N	1:K8:139:LYS:O	2.44	0.48
1:L1:378:CYS:SG	1:L1:469:PRO:HB3	2.53	0.48
1:L4:100:GLU:OE2	1:L4:186:LYS:HG3	2.13	0.48
1:L5:406:LEU:HD22	1:L5:474:ILE:HG13	1.94	0.48
1:L6:371:GLN:OE1	1:L6:562:THR:OG1	2.14	0.48
1:L9:451:ASP:OD1	1:L9:452:GLY:N	2.38	0.48
1:LQ:107:GLY:HA3	1:LQ:110:TYR:CE2	2.48	0.48
1:LQ:368:VAL:O	1:LQ:400:ARG:NH2	2.47	0.48
1:LQ:400:ARG:HD3	1:LQ:403:CYS:SG	2.54	0.48
1:LU:572:LEU:O	1:LU:573:PHE:C	2.56	0.48
1:LW:256:PRO:HG2	1:LW:339:THR:H	1.77	0.48
1:LX:126:GLU:OE2	1:LX:128:GLU:HB2	2.13	0.48
1:LX:406:LEU:HD13	1:LX:475:ALA:HB2	1.94	0.48
1:Lv:417:ILE:H	1:Lv:417:ILE:HD13	1.78	0.48
1:Lw:103:ILE:HD13	1:Lw:182:ILE:HG22	1.95	0.48
1:Lw:198:ILE:HG23	1:Lw:324:PHE:HE2	1.77	0.48
1:M0:83:ALA:HB2	1:M0:358:ALA:HB2	1.95	0.48
1:M0:94:PRO:HG3	1:M0:338:LEU:HD13	1.95	0.48
1:M3:455:LYS:HB2	1:M3:470:LEU:HD13	1.95	0.48
1:M4:253:PRO:HG2	1:M4:255:TYR:CE1	2.48	0.48
1:M5:28:ALA:HB2	1:M5:370:VAL:HG21	1.95	0.48
1:M6:91:ASN:O	1:M6:191:SER:OG	2.30	0.48
1:M6:467:TRP:CZ3	1:M7:199:GLU:HB2	2.48	0.48
1:M7:29:LEU:O	1:M7:80:VAL:HA	2.13	0.48
1:M9:90:LYS:NZ	1:M9:190:ASP:OD1	2.46	0.48
1:M9:110:TYR:N	1:M9:138:GLY:HA3	2.24	0.48
1:M9:455:LYS:HD2	1:M9:502:VAL:HG22	1.94	0.48
1:MQ:29:LEU:O	1:MQ:80:VAL:HA	2.13	0.48
1:MQ:44:VAL:HG13	1:MQ:49:ASP:HB3	1.95	0.48
1:MR:228:GLY:HA2	1:MR:345:SER:HB3	1.94	0.48
1:MR:646:ALA:HB2	1:Mx:305:TYR:CZ	2.48	0.48
1:MS:454:TYR:HB3	1:MS:467:TRP:CD1	2.49	0.48
1:MV:198:ILE:HG23	1:MV:324:PHE:HE2	1.78	0.48
1:MW:620:ARG:HB2	1:MW:622:GLU:HG3	1.96	0.48
1:MZ:494:TYR:CE1	1:Ma:569:LYS:HG2	2.48	0.48
1:Ma:198:ILE:HG23	1:Ma:324:PHE:HE2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mc:455:LYS:HB2	1:Mc:470:LEU:HD13	1.95	0.48
1:Mc:639:THR:HB	1:Md:624:VAL:HG12	1.96	0.48
1:Me:239:VAL:HG22	1:Me:280:ALA:HB3	1.95	0.48
1:Me:296:SER:O	1:Me:311:ILE:HG13	2.14	0.48
1:Mw:51:VAL:HG22	1:Mw:65:PHE:HZ	1.78	0.48
1:NV:57:PRO:HA	1:NV:61:THR:HB	1.93	0.48
1:Nf:33:PHE:HA	1:Nf:61:THR:HG23	1.96	0.48
1:Ng:169:ALA:HB2	1:Ng:184:LEU:HD11	1.96	0.48
1:Ng:246:LYS:HB2	1:Ng:250:ALA:HB2	1.94	0.48
1:Ni:571:ARG:HD2	1:Ni:584:PHE:HB2	1.95	0.48
1:Nj:94:PRO:HD3	1:Nj:222:VAL:O	2.14	0.48
1:Nw:453:ASN:OD1	1:Nw:453:ASN:N	2.45	0.48
1:Nx:526:THR:OG1	1:Nx:527:GLY:N	2.47	0.48
1:Nz:206:THR:HA	1:Nz:211:GLN:HE21	1.78	0.48
2:Om:35:GLN:NE2	2:Om:81:ALA:HB2	2.28	0.48
2:PC:22:GLN:HB2	2:PC:116:TYR:HE2	1.79	0.48
2:PD:82:ARG:NH1	2:PD:138:GLY:HA2	2.29	0.48
2:PO:41:LEU:HB2	2:Pt:140:LEU:HB3	1.94	0.48
2:Pk:67:ASP:OD1	2:Pk:67:ASP:N	2.40	0.48
2:Pq:124:THR:O	2:Pq:125:LYS:HB3	2.13	0.48
2:Ps:21:PHE:CD2	2:RN:142:LEU:HD23	2.48	0.48
2:Pt:24:GLU:OE1	2:Pt:114:ARG:NH1	2.46	0.48
2:RH:15:PHE:HB3	2:Rm:150:ILE:HG13	1.96	0.48
2:Rl:82:ARG:O	2:Rl:86:VAL:HG13	2.13	0.48
1:K2:46:ASN:OD1	1:K2:47:GLU:N	2.47	0.48
1:K5:639:THR:HB	1:K6:624:VAL:HG12	1.94	0.48
1:K8:235:GLU:OE2	1:K8:261:ARG:NH2	2.46	0.48
1:K9:119:LYS:NZ	1:K9:124:ASP:OD1	2.45	0.48
1:L2:455:LYS:HZ3	1:L2:473:ASP:CG	2.22	0.48
1:L2:609:ASP:OD1	1:L2:611:THR:OG1	2.21	0.48
1:L5:252:LEU:HG	1:L5:263:SER:HB3	1.95	0.48
1:L5:480:ARG:O	1:L5:484:VAL:HG12	2.14	0.48
1:L6:246:LYS:HB2	1:L6:250:ALA:HB2	1.94	0.48
1:L6:291:GLN:HE22	1:L6:320:SER:HB2	1.78	0.48
1:LS:378:CYS:SG	1:LS:454:TYR:OH	2.58	0.48
1:LS:495:ASN:OD1	1:LS:495:ASN:N	2.43	0.48
1:LU:566:ARG:HA	1:LU:569:LYS:HD2	1.94	0.48
1:LW:57:PRO:HB3	1:LW:62:ALA:HA	1.96	0.48
1:LX:104:SER:OG	1:LX:183:THR:OG1	2.17	0.48
1:LZ:104:SER:HB2	1:LZ:181:VAL:HB	1.94	0.48
1:LZ:108:SER:OG	1:LZ:137:ASP:OD2	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lb:151:ILE:HG22	1:Lb:187:ILE:HG13	1.95	0.48
1:Lc:601:ILE:HG23	1:Lc:629:ILE:HD12	1.96	0.48
1:Ld:406:LEU:HB3	1:Ld:474:ILE:HD11	1.95	0.48
1:Le:400:ARG:NH1	1:Le:402:ASP:OD1	2.47	0.48
1:M0:617:VAL:O	1:M0:622:GLU:HB2	2.14	0.48
1:M2:57:PRO:HB3	1:M2:62:ALA:HA	1.94	0.48
1:M4:107:GLY:HA3	1:M4:110:TYR:HE2	1.78	0.48
1:M4:572:LEU:O	1:M4:573:PHE:C	2.55	0.48
1:M7:107:GLY:HA3	1:M7:110:TYR:CE2	2.49	0.48
1:M7:116:ILE:HG12	1:M7:130:LYS:HA	1.95	0.48
1:M7:209:ASP:OD1	1:M7:209:ASP:N	2.44	0.48
1:M8:518:TYR:CZ	1:M8:539:LYS:HD3	2.47	0.48
1:MQ:332:GLU:OE1	1:MQ:332:GLU:N	2.42	0.48
1:MW:66:MET:HG2	1:MW:468:VAL:HG21	1.94	0.48
1:MX:57:PRO:HB3	1:MX:62:ALA:HA	1.96	0.48
1:MX:478:CYS:O	1:MX:555:ARG:NH1	2.45	0.48
1:Mb:32:LYS:HE2	1:Mb:350:VAL:HB	1.95	0.48
1:Mb:253:PRO:HG2	1:Mb:255:TYR:HE1	1.78	0.48
1:Me:453:ASN:HB2	1:Me:506:ALA:HB3	1.96	0.48
1:Mx:229:GLU:OE2	1:Mx:345:SER:N	2.28	0.48
1:Nc:269:PHE:CE2	1:Nc:280:ALA:HB1	2.49	0.48
1:Ne:332:GLU:OE1	1:Ne:332:GLU:N	2.43	0.48
1:Nf:236:ILE:HD11	1:Nf:323:ILE:HG21	1.96	0.48
1:Ng:455:LYS:NZ	1:Ng:457:GLN:OE1	2.46	0.48
1:Nh:310:TYR:HE2	1:Nh:312:ASP:HB2	1.78	0.48
1:Nv:152:ALA:O	1:Nv:156:GLU:HG2	2.13	0.48
2:OG:75:ASN:HB3	2:OG:151:GLN:HB3	1.95	0.48
2:OH:23:VAL:HG13	2:OH:36:CYS:SG	2.52	0.48
2:OO:23:VAL:HG22	2:OO:36:CYS:SG	2.54	0.48
2:Oi:48:LYS:HB2	2:PD:133:TRP:CZ2	2.49	0.48
2:Ot:64:ARG:NH1	2:PO:95:GLN:HG3	2.28	0.48
2:PC:25:ILE:C	2:PC:27:TYR:H	2.21	0.48
2:PG:136:ASN:HB3	2:PG:156:THR:HG23	1.95	0.48
2:PO:56:ARG:HB3	2:PO:56:ARG:HH11	1.78	0.48
2:Pt:1:MET:HB2	2:Pt:1:MET:HE3	1.62	0.48
2:Pt:80:ASP:O	2:Pt:84:LYS:HG3	2.14	0.48
2:RG:113:VAL:HG13	2:RG:127:ILE:HG12	1.95	0.48
2:RR:69:TRP:O	2:RR:156:THR:HA	2.13	0.48
2:RS:83:GLN:HA	2:RS:86:VAL:HG22	1.95	0.48
2:Rm:140:LEU:HD11	2:Rm:151:GLN:HG2	1.94	0.48
2:Rq:131:GLY:O	2:Rq:159:LEU:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K0:279:TYR:OH	1:K0:332:GLU:O	2.31	0.48
1:K0:371:GLN:OE1	1:K0:562:THR:OG1	2.23	0.48
1:K1:16:GLN:OE1	1:K1:460:LYS:HB2	2.13	0.48
1:K1:495:ASN:OD1	1:K1:495:ASN:N	2.42	0.48
1:K2:69:MET:O	1:K2:73:GLN:HG2	2.13	0.48
1:K5:417:ILE:HD13	1:K5:417:ILE:H	1.78	0.48
1:K5:451:ASP:OD2	1:K5:470:LEU:HB3	2.14	0.48
1:K6:221:GLY:O	1:K6:325:ALA:HA	2.14	0.48
1:L3:360:ASP:OD1	1:L3:392:HIS:NE2	2.42	0.48
1:L8:33:PHE:O	1:L8:82:ARG:NH2	2.38	0.48
1:LR:412:GLU:HA	1:LR:415:VAL:HG12	1.95	0.48
1:LS:400:ARG:HD3	1:LS:403:CYS:SG	2.53	0.48
1:LU:110:TYR:H	1:LU:138:GLY:CA	2.25	0.48
1:LV:24:THR:N	1:LV:483:ASN:OD1	2.47	0.48
1:LZ:417:ILE:HG21	1:LZ:421:ARG:HG2	1.95	0.48
1:LZ:453:ASN:HB3	1:LZ:507:ILE:HG12	1.96	0.48
1:Lb:152:ALA:O	1:Lb:156:GLU:HG2	2.13	0.48
1:Lv:441:PHE:CZ	1:Lv:443:ILE:HD11	2.48	0.48
1:M5:2:THR:OG1	1:M5:3:LEU:N	2.37	0.48
1:M5:253:PRO:HG2	1:M5:255:TYR:CE1	2.49	0.48
1:M6:383:LEU:HD11	1:M6:436:TYR:CE1	2.48	0.48
1:M9:455:LYS:NZ	1:M9:457:GLN:OE1	2.47	0.48
1:MZ:108:SER:O	1:MZ:177:GLY:HA2	2.12	0.48
1:MZ:110:TYR:H	1:MZ:138:GLY:CA	2.25	0.48
1:Mb:220:PRO:HG2	1:Mb:338:LEU:HD11	1.94	0.48
1:Mc:455:LYS:NZ	1:Mc:473:ASP:OD2	2.47	0.48
1:Me:247:GLY:HA2	1:Me:266:LYS:HG3	1.96	0.48
1:Mw:379:ALA:O	1:Mw:381:GLU:N	2.40	0.48
1:Mx:240:SER:OG	1:Mx:335:SER:OG	2.25	0.48
1:Mz:432:ALA:HB2	1:Mz:440:ASN:ND2	2.28	0.48
1:NV:193:ILE:HG21	1:NV:223:VAL:HG11	1.96	0.48
1:Nb:32:LYS:HE2	1:Nb:350:VAL:HB	1.96	0.48
1:Nc:601:ILE:HD12	1:Nc:604:TYR:HB3	1.95	0.48
1:Ng:614:THR:C	1:Ng:616:SER:H	2.22	0.48
1:Nj:332:GLU:OE1	1:Nj:332:GLU:N	2.33	0.48
1:Nv:272:GLY:O	1:Nv:274:GLN:NE2	2.46	0.48
1:Nv:417:ILE:H	1:Nv:417:ILE:HD13	1.79	0.48
1:Nw:74:TYR:HH	1:Nw:500:LEU:H	1.57	0.48
1:Nx:239:VAL:HG23	1:Nx:280:ALA:HB3	1.96	0.48
2:OD:39:THR:HG22	2:OD:71:VAL:HG22	1.95	0.48
2:OE:23:VAL:HG11	2:OE:39:THR:HG21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:47:GLU:OE1	2:OG:47:GLU:N	2.45	0.48
2:Ot:143:ASP:OD1	2:Ot:144:TRP:N	2.47	0.48
2:PF:63:ASP:OD2	2:Pl:147:ASN:ND2	2.47	0.48
2:PN:54:MET:O	2:PN:56:ARG:N	2.47	0.48
2:RG:55:ASN:OD1	2:Rm:19:ASN:ND2	2.47	0.48
2:Rn:37:LYS:NZ	2:Rn:152:THR:OG1	2.41	0.48
2:Rn:76:ASP:OD1	2:Rn:76:ASP:N	2.46	0.48
2:Rq:14:ASP:OD1	2:Rq:17:ARG:NH2	2.39	0.48
1:K2:219:ILE:HB	1:K2:338:LEU:HD21	1.95	0.48
1:K3:46:ASN:OD1	1:K3:47:GLU:N	2.46	0.48
1:K5:110:TYR:H	1:K5:138:GLY:HA3	1.78	0.48
1:K5:614:THR:O	1:K5:616:SER:N	2.46	0.48
1:K6:617:VAL:HG13	1:K6:622:GLU:HB2	1.95	0.48
1:K8:412:GLU:OE1	1:K8:412:GLU:N	2.42	0.48
1:K9:28:ALA:HB2	1:K9:370:VAL:HG21	1.95	0.48
1:K9:470:LEU:HD12	1:K9:473:ASP:HB2	1.96	0.48
1:L1:332:GLU:OE1	1:L1:332:GLU:N	2.44	0.48
1:L6:654:LEU:HD22	1:L7:605:ARG:HD3	1.96	0.48
1:L8:485:SER:OG	1:L8:486:GLN:N	2.47	0.48
1:LS:332:GLU:H	1:LS:332:GLU:CD	2.21	0.48
1:LV:438:ASP:N	1:LV:438:ASP:OD1	2.47	0.48
1:LX:642:PHE:CE2	1:LY:561:LYS:HG2	2.49	0.48
1:LZ:33:PHE:HA	1:LZ:61:THR:HG23	1.96	0.48
1:La:43:GLN:OE1	1:La:79:ARG:NH1	2.39	0.48
1:Ld:57:PRO:HB3	1:Ld:62:ALA:HA	1.94	0.48
1:Lv:116:ILE:HB	1:Lv:129:GLY:HA3	1.94	0.48
1:Lv:118:VAL:HB	1:Lv:126:GLU:HB3	1.95	0.48
1:Lv:240:SER:OG	1:Lv:243:ASP:OD1	2.32	0.48
1:Lw:135:ASP:HB3	1:Lw:139:LYS:HB2	1.95	0.48
1:Lw:577:ASN:OD1	1:Lw:577:ASN:N	2.42	0.48
1:Lx:57:PRO:HG3	1:Lx:65:PHE:CD1	2.49	0.48
1:M1:366:GLU:OE1	1:Mz:526:THR:OG1	2.27	0.48
1:M1:569:LYS:HD3	1:Mz:494:TYR:CZ	2.49	0.48
1:M2:400:ARG:HD3	1:M2:403:CYS:SG	2.53	0.48
1:MR:94:PRO:HD3	1:MR:222:VAL:O	2.13	0.48
1:MR:604:TYR:HA	1:MR:628:TYR:O	2.13	0.48
1:MY:109:ASN:H	1:MY:137:ASP:HB2	1.78	0.48
1:Mc:291:GLN:HE22	1:Mc:320:SER:HB2	1.77	0.48
1:Mc:617:VAL:HG23	1:Mc:620:ARG:HH21	1.79	0.48
1:Mx:480:ARG:O	1:Mx:484:VAL:HG12	2.14	0.48
1:NW:35:TRP:O	1:NW:54:PHE:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NZ:577:ASN:C	1:NZ:581:ARG:HH21	2.21	0.48
1:Na:332:GLU:H	1:Na:332:GLU:CD	2.20	0.48
1:Nf:23:SER:O	1:Nf:76:ASN:HB2	2.14	0.48
1:Nf:129:GLY:HA2	1:Nf:146:PRO:HD3	1.95	0.48
1:Ng:456:TYR:HB3	1:Ng:504:LYS:HB3	1.96	0.48
1:Nj:57:PRO:HB2	1:Nj:62:ALA:HA	1.96	0.48
1:Nj:368:VAL:HB	1:Nj:400:ARG:HH21	1.79	0.48
2:OO:150:ILE:HD11	2:Rt:15:PHE:CD2	2.49	0.48
2:Ol:140:LEU:HD12	2:Ol:140:LEU:HA	1.62	0.48
2:PC:114:ARG:HG2	2:PC:126:GLU:HG3	1.95	0.48
2:PK:17:ARG:HB2	2:PK:20:LEU:HD12	1.96	0.48
2:PL:136:ASN:ND2	2:PL:136:ASN:O	2.46	0.48
2:PO:21:PHE:CG	2:Pt:142:LEU:HD23	2.48	0.48
2:Pl:41:LEU:HD11	2:Pl:113:VAL:HG21	1.95	0.48
2:Pn:82:ARG:NH1	2:Pn:138:GLY:HA2	2.27	0.48
2:RM:88:TRP:CE2	2:RM:134:PRO:HD3	2.49	0.48
2:RR:143:ASP:OD1	2:RR:144:TRP:N	2.47	0.48
2:Rq:43:ALA:O	2:Rq:162:TRP:NE1	2.43	0.48
2:Rr:54:MET:H	2:Rr:54:MET:HG2	1.37	0.48
1:K0:573:PHE:HA	1:K9:635:ILE:O	2.14	0.48
1:K2:143:ILE:HD12	1:K2:145:ILE:HD11	1.95	0.48
1:K2:383:LEU:HD11	1:K2:436:TYR:CD1	2.49	0.48
1:K3:607:VAL:O	1:K3:612:ASN:ND2	2.47	0.48
1:K9:391:LYS:NZ	1:K9:440:ASN:O	2.46	0.48
1:L2:378:CYS:HB2	1:L2:410:PRO:HA	1.95	0.48
1:L3:44:VAL:HG11	1:L3:50:LEU:HB2	1.96	0.48
1:L6:148:ALA:O	1:L6:151:ILE:HG13	2.14	0.48
1:L7:494:TYR:CZ	1:L8:569:LYS:HD3	2.49	0.48
1:L9:406:LEU:HD22	1:L9:474:ILE:HG13	1.96	0.48
1:LQ:332:GLU:OE1	1:LQ:332:GLU:N	2.43	0.48
1:LR:222:VAL:HG11	1:LR:236:ILE:HG12	1.96	0.48
1:LW:430:ARG:NH1	1:LW:443:ILE:O	2.47	0.48
1:LY:448:ALA:O	1:LY:541:ALA:HB3	2.13	0.48
1:LZ:556:LEU:O	1:LZ:559:MET:HG3	2.13	0.48
1:Lb:46:ASN:OD1	1:Lb:47:GLU:N	2.47	0.48
1:Ld:110:TYR:CE1	1:Ld:177:GLY:HA3	2.48	0.48
1:M1:572:LEU:O	1:M1:573:PHE:C	2.56	0.48
1:M3:455:LYS:NZ	1:M3:457:GLN:OE1	2.47	0.48
1:M3:478:CYS:O	1:M3:555:ARG:NH1	2.44	0.48
1:M3:645:THR:HB	1:M3:650:ASP:OD1	2.14	0.48
1:M7:571:ARG:HH11	1:M7:584:PHE:HD1	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MR:29:LEU:O	1:MR:80:VAL:HA	2.13	0.48
1:MR:459:ASP:OD2	1:MR:466:ARG:NH1	2.46	0.48
1:MU:246:LYS:HB2	1:MU:250:ALA:HB2	1.95	0.48
1:Md:332:GLU:OE1	1:Md:332:GLU:N	2.37	0.48
1:Mw:296:SER:O	1:Mw:311:ILE:HG13	2.13	0.48
1:NW:29:LEU:O	1:NW:80:VAL:HA	2.14	0.48
1:NW:417:ILE:H	1:NW:417:ILE:HD13	1.78	0.48
1:NX:645:THR:OG1	1:NZ:629:ILE:O	2.32	0.48
1:NZ:120:TYR:HE2	1:NZ:157:VAL:HG11	1.78	0.48
1:Na:125:ILE:HD11	1:Na:153:LYS:NZ	2.29	0.48
1:Na:368:VAL:HG12	1:Na:370:VAL:HG22	1.96	0.48
1:Na:614:THR:C	1:Na:616:SER:H	2.22	0.48
1:Na:645:THR:OG1	1:Na:645:THR:O	2.30	0.48
1:Nb:523:ASN:OD1	1:Nb:539:LYS:N	2.46	0.48
1:Ne:614:THR:C	1:Ne:616:SER:H	2.22	0.48
1:Ng:151:ILE:O	1:Ng:155:LYS:HG2	2.14	0.48
1:Ni:490:SER:OG	1:Ni:538:ASP:OD2	2.23	0.48
1:Nj:409:PRO:HB3	1:Nj:426:LEU:HD21	1.96	0.48
1:Nw:563:ASN:CG	1:Nw:591:TYR:HH	2.14	0.48
1:Nz:365:ARG:HA	1:Nz:400:ARG:NH2	2.29	0.48
1:Nz:614:THR:C	1:Nz:616:SER:H	2.22	0.48
2:OD:41:LEU:HG	2:OD:127:ILE:HD13	1.95	0.48
2:OD:58:ILE:HD12	2:OE:6:VAL:HG21	1.95	0.48
2:OD:120:ALA:HB2	2:Oh:99:ILE:O	2.14	0.48
2:OE:16:ALA:HB2	2:Oj:76:ASP:O	2.14	0.48
2:OG:82:ARG:NH1	2:OG:138:GLY:HA2	2.29	0.48
2:OJ:63:ASP:OD2	2:Op:147:ASN:ND2	2.47	0.48
2:OK:1:MET:HE3	2:OK:1:MET:HB2	1.57	0.48
2:Ol:125:LYS:HD3	2:Ol:126:GLU:H	1.78	0.48
2:On:61:ALA:HA	2:PI:133:TRP:CH2	2.48	0.48
2:On:109:LYS:O	2:On:132:LEU:HB3	2.14	0.48
2:Or:56:ARG:HB3	2:Or:56:ARG:HH11	1.79	0.48
2:Or:145:ASP:O	2:Or:147:ASN:ND2	2.46	0.48
2:PF:56:ARG:HB3	2:PF:56:ARG:NH1	2.29	0.48
2:PO:56:ARG:HB3	2:PO:56:ARG:NH1	2.28	0.48
2:Pn:80:ASP:O	2:Pn:84:LYS:HG3	2.13	0.48
2:Pq:91:ILE:HG22	2:Pq:107:TYR:HB3	1.96	0.48
2:RC:82:ARG:O	2:RC:86:VAL:HG13	2.13	0.48
2:RL:1:MET:HB2	2:RL:1:MET:HE3	1.67	0.48
2:RO:90:SER:HA	2:RO:94:GLY:H	1.77	0.48
1:K7:195:LEU:HD12	1:K7:201:ALA:HB1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K9:66:MET:HB3	1:K9:468:VAL:HG11	1.96	0.48
1:K9:222:VAL:HG22	1:K9:325:ALA:HB2	1.96	0.48
1:L1:222:VAL:HG22	1:L1:325:ALA:HB2	1.96	0.48
1:L1:646:ALA:O	1:L1:647:THR:OG1	2.26	0.48
1:L2:236:ILE:HG13	1:L2:283:VAL:HG13	1.94	0.48
1:L2:453:ASN:HB2	1:L2:506:ALA:HB3	1.95	0.48
1:L6:494:TYR:CZ	1:L7:569:LYS:HD3	2.49	0.48
1:L6:505:LEU:HD21	1:L6:525:VAL:HG12	1.95	0.48
1:L6:510:ARG:HG2	1:L6:511:GLN:H	1.79	0.48
1:L7:291:GLN:OE1	1:L7:320:SER:OG	2.20	0.48
1:L9:239:VAL:HG22	1:L9:280:ALA:HB3	1.96	0.48
1:L9:478:CYS:O	1:L9:555:ARG:NH1	2.43	0.48
1:LS:438:ASP:OD1	1:LS:438:ASP:N	2.39	0.48
1:LU:34:GLN:HE21	1:LU:56:GLN:H	1.62	0.48
1:LU:645:THR:HB	1:LU:650:ASP:OD1	2.13	0.48
1:La:429:TRP:CZ2	1:La:441:PHE:HB2	2.49	0.48
1:Lb:400:ARG:HB3	1:Lb:400:ARG:HH11	1.79	0.48
1:M0:470:LEU:HD23	1:M0:525:VAL:HG21	1.96	0.48
1:M4:137:ASP:N	1:M4:137:ASP:OD1	2.39	0.48
1:M6:510:ARG:HG2	1:M6:511:GLN:H	1.77	0.48
1:MR:213:ASN:O	1:MR:217:TYR:HD2	1.97	0.48
1:MS:450:ILE:HD13	1:MS:522:ILE:HG12	1.96	0.48
1:MV:116:ILE:HD13	1:MV:171:ILE:HG23	1.96	0.48
1:MV:368:VAL:O	1:MV:400:ARG:NH2	2.47	0.48
1:Ma:193:ILE:HG21	1:Ma:223:VAL:HG11	1.96	0.48
1:Mb:281:ILE:HG13	1:Mb:295:LEU:HD12	1.94	0.48
1:Mb:455:LYS:HD2	1:Mb:457:GLN:HB2	1.95	0.48
1:Md:35:TRP:O	1:Md:54:PHE:HA	2.13	0.48
1:Me:246:LYS:HB2	1:Me:250:ALA:HB2	1.95	0.48
1:Mx:413:THR:OG1	1:Mx:425:ASN:HB3	2.13	0.48
1:Mz:613:ASN:HA	1:Mz:617:VAL:HG11	1.95	0.48
1:NW:381:GLU:HB3	1:NW:385:THR:HG23	1.96	0.48
1:NW:400:ARG:HD3	1:NW:403:CYS:SG	2.53	0.48
1:Nb:315:PHE:CE2	1:Nb:325:ALA:HB3	2.49	0.48
1:Nc:103:ILE:HD13	1:Nc:182:ILE:HG22	1.96	0.48
1:Nc:360:ASP:OD1	1:Nc:392:HIS:NE2	2.29	0.48
1:Nd:379:ALA:HB2	1:Nd:454:TYR:CE2	2.49	0.48
1:Nd:604:TYR:HA	1:Nd:628:TYR:O	2.14	0.48
1:Ne:46:ASN:OD1	1:Ne:47:GLU:N	2.46	0.48
1:Nf:351:THR:OG1	1:Nf:352:ALA:N	2.46	0.48
1:Ng:332:GLU:H	1:Ng:332:GLU:CD	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ni:450:ILE:HD13	1:Ni:522:ILE:HG12	1.96	0.48
1:Ni:453:ASN:ND2	1:Ni:505:LEU:HG	2.29	0.48
2:OC:77:GLU:OE2	2:RR:118:ARG:N	2.47	0.48
2:OI:148:ASN:ND2	2:Rm:47:GLU:OE1	2.35	0.48
2:OO:31:ASN:HA	2:OO:34:PHE:HD2	1.79	0.48
2:Oj:17:ARG:HD2	2:Oj:118:ARG:HD3	1.94	0.48
2:Ol:54:MET:HE2	2:Om:1:MET:HE1	1.96	0.48
2:Ol:64:ARG:NH1	2:PG:95:GLN:HG3	2.29	0.48
2:Om:46:VAL:HG22	2:Om:64:ARG:HB2	1.96	0.48
2:Op:129:ILE:HG21	2:Op:132:LEU:HD13	1.96	0.48
2:Ph:82:ARG:O	2:Ph:86:VAL:HG13	2.13	0.48
2:Ph:113:VAL:HG13	2:Ph:127:ILE:HG12	1.95	0.48
2:Pl:74:MET:HG2	2:Pl:150:ILE:HD11	1.95	0.48
2:RG:25:ILE:O	2:RG:26:SER:OG	2.31	0.48
2:Rs:56:ARG:HB3	2:Rs:56:ARG:HH11	1.79	0.48
1:K1:119:LYS:NZ	1:K1:124:ASP:OD1	2.46	0.48
1:K1:455:LYS:NZ	1:K1:473:ASP:OD2	2.47	0.48
1:K1:560:LEU:O	1:K1:564:ILE:HG12	2.13	0.48
1:K4:163:LEU:HB2	1:K4:186:LYS:HA	1.96	0.48
1:K4:256:PRO:HG2	1:K4:339:THR:H	1.78	0.48
1:K5:560:LEU:HD22	1:K5:629:ILE:HD13	1.96	0.48
1:K9:22:ASN:N	1:K9:22:ASN:OD1	2.46	0.48
1:K9:116:ILE:HD13	1:K9:171:ILE:HG23	1.96	0.48
1:L1:235:GLU:CD	1:L1:261:ARG:HH22	2.21	0.48
1:L2:69:MET:O	1:L2:73:GLN:HG2	2.14	0.48
1:L2:394:VAL:HG11	1:L2:443:ILE:HD12	1.96	0.48
1:L8:130:LYS:HE2	1:L8:130:LYS:HB2	1.78	0.48
1:L8:604:TYR:HA	1:L8:628:TYR:O	2.14	0.48
1:LU:44:VAL:HG11	1:LU:50:LEU:HB2	1.94	0.48
1:LW:451:ASP:CG	1:LW:452:GLY:H	2.21	0.48
1:LX:438:ASP:OD1	1:LX:438:ASP:N	2.41	0.48
1:LZ:39:PHE:CE1	1:LZ:86:ARG:HD2	2.49	0.48
1:Lc:26:THR:HA	1:Lc:77:ASP:O	2.14	0.48
1:Lc:390:GLN:HB3	1:Lc:441:PHE:HE1	1.78	0.48
1:Lc:510:ARG:HG2	1:Lc:511:GLN:H	1.78	0.48
1:Le:135:ASP:OD1	1:Le:136:ALA:N	2.47	0.48
1:Le:298:LYS:HB2	1:Le:298:LYS:NZ	2.29	0.48
1:M0:485:SER:OG	1:M0:486:GLN:N	2.46	0.48
1:M1:253:PRO:HG2	1:M1:255:TYR:CE1	2.48	0.48
1:M1:269:PHE:CE2	1:M1:280:ALA:HB1	2.48	0.48
1:M2:454:TYR:HB3	1:M2:467:TRP:CD1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M3:151:ILE:O	1:M3:155:LYS:HG2	2.14	0.48
1:M3:637:TYR:HB3	1:Nc:3:LEU:HD12	1.96	0.48
1:M8:120:TYR:CE2	1:M8:157:VAL:HG11	2.49	0.48
1:MQ:494:TYR:HE2	1:MQ:528:THR:HG21	1.78	0.48
1:MR:66:MET:HG2	1:MR:468:VAL:HG21	1.95	0.48
1:MS:34:GLN:HE21	1:MS:230:LEU:HD12	1.78	0.48
1:MS:378:CYS:SG	1:MS:454:TYR:OH	2.67	0.48
1:MW:424:ASP:OD1	1:MW:516:ARG:NH1	2.44	0.48
1:MX:109:ASN:N	1:MX:138:GLY:HA3	2.29	0.48
1:MX:619:ASP:N	1:MX:619:ASP:OD1	2.47	0.48
1:MY:211:GLN:OE1	1:MY:329:ASN:ND2	2.46	0.48
1:Mb:275:THR:HG23	1:Mb:278:GLN:HG3	1.94	0.48
1:Md:455:LYS:HG3	1:Md:502:VAL:HG13	1.95	0.48
1:Mw:110:TYR:CE1	1:Mw:171:ILE:HD12	2.49	0.48
1:Mx:563:ASN:CG	1:Mx:591:TYR:HH	2.15	0.48
1:Mz:578:ALA:N	1:Mz:581:ARG:HH21	2.12	0.48
1:NV:49:ASP:N	1:NV:49:ASP:OD1	2.47	0.48
1:NV:453:ASN:HB2	1:NV:506:ALA:HB3	1.95	0.48
1:NX:451:ASP:CG	1:NX:452:GLY:H	2.22	0.48
1:NZ:246:LYS:HB2	1:NZ:250:ALA:HB2	1.96	0.48
1:Nb:451:ASP:CG	1:Nb:452:GLY:H	2.21	0.48
1:Ne:521:ALA:HB1	1:Ne:541:ALA:HA	1.94	0.48
1:Nf:215:LYS:HB2	1:Nf:329:ASN:ND2	2.27	0.48
1:Ng:152:ALA:O	1:Ng:156:GLU:HG2	2.14	0.48
1:Nv:651:PHE:O	1:Nv:654:LEU:HB2	2.14	0.48
1:Nw:39:PHE:HB3	1:Nw:361:PHE:CE1	2.49	0.48
2:OH:104:PRO:HA	2:OH:107:TYR:CE2	2.49	0.48
2:OH:136:ASN:O	2:OH:136:ASN:ND2	2.33	0.48
2:OL:133:TRP:CH2	2:Rq:61:ALA:HA	2.49	0.48
2:Om:27:TYR:CD1	2:Om:109:LYS:HE2	2.49	0.48
2:PH:112:ILE:HD11	2:PH:126:GLU:OE2	2.14	0.48
2:Ph:56:ARG:HB3	2:Ph:56:ARG:NH1	2.26	0.48
2:Pi:47:GLU:OE1	2:Pi:47:GLU:N	2.47	0.48
2:Pk:82:ARG:HD2	2:Pk:140:LEU:HD22	1.95	0.48
2:Pk:132:LEU:HA	2:Pk:158:ALA:O	2.13	0.48
2:Pl:39:THR:HG22	2:Pl:71:VAL:HG13	1.95	0.48
2:Po:120:ALA:HB2	2:RI:99:ILE:O	2.14	0.48
2:RC:22:GLN:HB2	2:RC:116:TYR:HE1	1.79	0.48
2:RJ:118:ARG:N	2:Ro:77:GLU:OE2	2.46	0.48
2:RJ:150:ILE:HG12	2:RJ:151:GLN:N	2.29	0.48
2:RN:23:VAL:HG13	2:RN:36:CYS:SG	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RO:25:ILE:HB	2:RO:28:LEU:HD12	1.95	0.48
2:Rq:136:ASN:ND2	2:Rq:136:ASN:O	2.47	0.48
2:Rr:69:TRP:HB2	2:Rr:159:LEU:HD23	1.94	0.48
2:Rt:56:ARG:NH1	2:Rt:56:ARG:HB3	2.29	0.48
1:K0:273:PRO:HB3	1:K0:278:GLN:HB2	1.96	0.47
1:K1:278:GLN:HA	1:K1:296:SER:HA	1.96	0.47
1:K9:41:ILE:HD12	1:K9:362:PHE:CE1	2.49	0.47
1:K9:373:PHE:HB2	1:K9:405:VAL:HG22	1.96	0.47
1:K9:406:LEU:HD22	1:K9:474:ILE:HG13	1.97	0.47
1:L4:604:TYR:HA	1:L4:628:TYR:O	2.12	0.47
1:L7:459:ASP:OD2	1:L7:466:ARG:NH1	2.46	0.47
1:L7:572:LEU:HD12	1:L7:572:LEU:HA	1.70	0.47
1:L9:23:SER:O	1:L9:76:ASN:HB2	2.14	0.47
1:L9:119:LYS:NZ	1:L9:124:ASP:OD1	2.43	0.47
1:LQ:502:VAL:HG11	1:LQ:505:LEU:HD13	1.95	0.47
1:LR:456:TYR:HB3	1:LR:503:ILE:HG23	1.95	0.47
1:LV:400:ARG:HD3	1:LV:403:CYS:SG	2.54	0.47
1:LV:429:TRP:CZ2	1:LV:441:PHE:HB2	2.48	0.47
1:LV:440:ASN:HD22	1:LV:442:ASN:HB3	1.79	0.47
1:LY:455:LYS:HE2	1:LY:502:VAL:HG22	1.95	0.47
1:LZ:614:THR:C	1:LZ:616:SER:H	2.22	0.47
1:La:492:ALA:HB2	1:La:535:LEU:HD13	1.95	0.47
1:Lb:108:SER:OG	1:Lb:137:ASP:OD2	2.32	0.47
1:Lb:414:VAL:HG23	1:Lb:422:ALA:HB1	1.96	0.47
1:Ld:107:GLY:HA3	1:Ld:110:TYR:CE2	2.49	0.47
1:Le:209:ASP:OD1	1:Le:209:ASP:N	2.46	0.47
1:Le:353:GLY:HA2	1:Le:356:MET:HE2	1.96	0.47
1:Lw:494:TYR:HE2	1:Lw:528:THR:HG21	1.78	0.47
1:M0:74:TYR:HE1	1:M0:500:LEU:HD12	1.79	0.47
1:M2:29:LEU:O	1:M2:80:VAL:HA	2.13	0.47
1:M2:264:THR:OG1	1:M2:265:ALA:N	2.47	0.47
1:M2:383:LEU:HD13	1:M2:439:ASN:HB2	1.96	0.47
1:M3:28:ALA:HB2	1:M3:370:VAL:HG21	1.96	0.47
1:M6:455:LYS:NZ	1:M6:457:GLN:OE1	2.27	0.47
1:M8:490:SER:OG	1:M8:538:ASP:OD2	2.18	0.47
1:M8:571:ARG:HH11	1:M8:584:PHE:HD1	1.62	0.47
1:M8:641:ASN:HA	1:Nh:11:LYS:O	2.14	0.47
1:MR:505:LEU:HD21	1:MR:525:VAL:HG12	1.95	0.47
1:MS:110:TYR:H	1:MS:138:GLY:CA	2.25	0.47
1:MU:134:VAL:HG12	1:MU:140:ILE:HG22	1.95	0.47
1:MV:100:GLU:HG2	1:MV:186:LYS:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MV:572:LEU:O	1:MV:573:PHE:C	2.56	0.47
1:MV:642:PHE:CZ	1:MW:564:ILE:HD11	2.48	0.47
1:MW:32:LYS:HD2	1:MW:64:TYR:CE2	2.48	0.47
1:MW:135:ASP:OD1	1:MW:136:ALA:N	2.47	0.47
1:MW:607:VAL:O	1:MW:612:ASN:ND2	2.47	0.47
1:MX:103:ILE:HD13	1:MX:182:ILE:HG22	1.95	0.47
1:MX:650:ASP:C	1:MX:652:ASP:H	2.22	0.47
1:MY:83:ALA:HB2	1:MY:358:ALA:HB2	1.96	0.47
1:Ma:480:ARG:C	1:Ma:482:ASP:H	2.22	0.47
1:Mc:213:ASN:O	1:Mc:217:TYR:HD2	1.97	0.47
1:Md:291:GLN:OE1	1:Md:320:SER:OG	2.28	0.47
1:Md:351:THR:OG1	1:Md:352:ALA:N	2.46	0.47
1:Mv:427:VAL:O	1:Mv:431:THR:OG1	2.28	0.47
1:Mw:410:PRO:O	1:Mw:413:THR:HG22	2.13	0.47
1:Mx:26:THR:HA	1:Mx:77:ASP:O	2.14	0.47
1:Mx:240:SER:HG	1:Mx:335:SER:HG	1.54	0.47
1:NV:432:ALA:HB2	1:NV:440:ASN:HD22	1.78	0.47
1:Nb:432:ALA:CB	1:Nb:440:ASN:HD22	2.26	0.47
1:Nb:477:LEU:HD23	1:Nb:535:LEU:HD12	1.95	0.47
1:Nb:644:ALA:O	1:Nb:645:THR:OG1	2.30	0.47
1:Nc:70:ASN:ND2	1:Nc:473:ASP:OD1	2.47	0.47
1:Ni:654:LEU:HA	1:Ni:654:LEU:HD23	1.61	0.47
1:Nw:410:PRO:O	1:Nw:413:THR:HG22	2.14	0.47
2:OD:41:LEU:HD13	2:Oi:142:LEU:HD22	1.96	0.47
2:OD:95:GLN:HG3	2:RS:64:ARG:NH1	2.29	0.47
2:OL:37:LYS:NZ	2:OL:152:THR:OG1	2.42	0.47
2:Pn:61:ALA:HA	2:RI:133:TRP:CH2	2.49	0.47
2:Pn:91:ILE:HG22	2:Pn:107:TYR:HB3	1.96	0.47
2:Pq:25:ILE:C	2:Pq:27:TYR:H	2.22	0.47
2:Pr:46:VAL:HG22	2:Pr:64:ARG:HB2	1.96	0.47
2:RK:51:VAL:HG11	2:Rq:150:ILE:HD12	1.95	0.47
2:RN:1:MET:HE2	2:Rs:120:ALA:HB1	1.95	0.47
2:Rl:140:LEU:HD13	2:Rl:153:PHE:HB3	1.96	0.47
2:Rm:143:ASP:OD1	2:Rm:144:TRP:N	2.47	0.47
2:Rq:25:ILE:C	2:Rq:27:TYR:H	2.22	0.47
2:Rs:83:GLN:HA	2:Rs:86:VAL:HG22	1.96	0.47
1:K3:40:GLN:H	1:K3:81:VAL:HG23	1.79	0.47
1:K3:480:ARG:O	1:K3:484:VAL:HG12	2.14	0.47
1:K4:63:ASP:O	1:K4:67:SER:OG	2.32	0.47
1:K4:100:GLU:OE2	1:K4:186:LYS:HG3	2.14	0.47
1:K7:505:LEU:HD22	1:K7:533:TYR:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K8:94:PRO:HD3	1:K8:222:VAL:O	2.14	0.47
1:L2:135:ASP:OD1	1:L2:136:ALA:N	2.47	0.47
1:L2:487:THR:HG21	1:L2:559:MET:HE3	1.96	0.47
1:L6:202:GLU:OE1	1:L6:203:ALA:N	2.47	0.47
1:L8:572:LEU:O	1:L8:573:PHE:C	2.57	0.47
1:L9:430:ARG:NH2	1:L9:443:ILE:O	2.40	0.47
1:LS:110:TYR:H	1:LS:138:GLY:CA	2.28	0.47
1:LU:455:LYS:HE2	1:LU:473:ASP:OD1	2.13	0.47
1:LV:107:GLY:HA3	1:LV:110:TYR:HE2	1.79	0.47
1:LV:238:ILE:HG12	1:LV:281:ILE:HD13	1.95	0.47
1:LW:371:GLN:OE1	1:LW:562:THR:OG1	2.21	0.47
1:LW:510:ARG:HG2	1:LW:511:GLN:H	1.79	0.47
1:LX:612:ASN:HB3	1:LX:624:VAL:HG23	1.95	0.47
1:LY:572:LEU:O	1:LY:573:PHE:C	2.57	0.47
1:La:108:SER:OG	1:La:137:ASP:OD2	2.22	0.47
1:Lc:118:VAL:HB	1:Lc:126:GLU:HB3	1.96	0.47
1:Ld:256:PRO:HG2	1:Ld:339:THR:H	1.79	0.47
1:M0:240:SER:OG	1:M0:243:ASP:OD1	2.31	0.47
1:M1:239:VAL:HG22	1:M1:280:ALA:HB3	1.96	0.47
1:M1:346:SER:O	1:M1:350:VAL:HG23	2.14	0.47
1:M2:198:ILE:HD12	1:M2:225:LEU:HD11	1.96	0.47
1:M5:549:ASP:OD2	1:Ne:271:TYR:OH	2.27	0.47
1:M7:193:ILE:HD11	1:M7:204:ALA:HB1	1.96	0.47
1:M9:375:ALA:HB3	1:M9:407:CYS:HA	1.96	0.47
1:MR:157:VAL:HG23	1:MR:159:GLU:H	1.78	0.47
1:MS:572:LEU:O	1:MS:573:PHE:C	2.57	0.47
1:MW:239:VAL:HG23	1:MW:280:ALA:HB3	1.97	0.47
1:MW:480:ARG:C	1:MW:482:ASP:H	2.22	0.47
1:Mb:198:ILE:HG23	1:Mb:324:PHE:HE2	1.78	0.47
1:Me:417:ILE:HD13	1:Me:417:ILE:H	1.79	0.47
1:Mv:563:ASN:CG	1:Mv:591:TYR:HH	2.18	0.47
1:Mw:269:PHE:CE1	1:Mw:280:ALA:HB1	2.49	0.47
1:NW:576:ASN:ND2	1:NW:622:GLU:O	2.47	0.47
1:NX:281:ILE:HG13	1:NX:295:LEU:HD12	1.96	0.47
1:NZ:34:GLN:NE2	1:NZ:56:GLN:O	2.48	0.47
1:NZ:110:TYR:H	1:NZ:138:GLY:CA	2.23	0.47
1:Nb:157:VAL:HG23	1:Nb:159:GLU:H	1.80	0.47
1:Nb:453:ASN:OD1	1:Nb:505:LEU:HG	2.15	0.47
1:Ng:450:ILE:HG22	1:Ng:541:ALA:HB2	1.96	0.47
1:Ni:35:TRP:O	1:Ni:54:PHE:HA	2.14	0.47
1:Nj:39:PHE:HB3	1:Nj:361:PHE:HE2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nj:251:LEU:HD23	1:Nj:262:ALA:HA	1.96	0.47
1:Nx:100:GLU:OE2	1:Nx:186:LYS:NZ	2.45	0.47
1:Nx:253:PRO:HG2	1:Nx:255:TYR:CE1	2.49	0.47
1:Nx:614:THR:C	1:Nx:616:SER:H	2.23	0.47
2:OO:90:SER:HA	2:OO:94:GLY:H	1.79	0.47
2:Op:64:ARG:NH1	2:PK:95:GLN:HG3	2.30	0.47
2:PG:136:ASN:O	2:PG:136:ASN:ND2	2.41	0.47
2:PK:82:ARG:NH1	2:PK:138:GLY:HA2	2.29	0.47
2:Ph:23:VAL:HG22	2:Ph:36:CYS:SG	2.54	0.47
2:RF:52:GLY:HA2	2:RF:57:LYS:HB3	1.95	0.47
2:RF:82:ARG:O	2:RF:86:VAL:HG13	2.13	0.47
2:RM:27:TYR:CE1	2:RM:109:LYS:HE2	2.49	0.47
1:K0:169:ALA:HB2	1:K0:184:LEU:HD11	1.96	0.47
1:K0:414:VAL:HG23	1:K0:422:ALA:HB1	1.95	0.47
1:K1:198:ILE:HD11	1:K1:225:LEU:HD11	1.97	0.47
1:K4:135:ASP:OD1	1:K4:136:ALA:N	2.47	0.47
1:K5:26:THR:HA	1:K5:77:ASP:O	2.14	0.47
1:K5:654:LEU:HD22	1:K6:605:ARG:HD3	1.96	0.47
1:K6:239:VAL:HG22	1:K6:280:ALA:HB3	1.95	0.47
1:K8:220:PRO:HG2	1:K8:338:LEU:HD11	1.95	0.47
1:K8:601:ILE:HG21	1:K8:629:ILE:HD12	1.96	0.47
1:L2:220:PRO:HG2	1:L2:338:LEU:HD11	1.94	0.47
1:L2:281:ILE:HD12	1:L2:295:LEU:HD12	1.96	0.47
1:L2:299:ARG:HD2	1:L2:310:TYR:CE1	2.50	0.47
1:L6:269:PHE:CE2	1:L6:280:ALA:HB1	2.49	0.47
1:L7:11:LYS:HG2	1:L7:13:THR:HG23	1.96	0.47
1:L8:131:ILE:HD11	1:L8:171:ILE:HD13	1.97	0.47
1:L8:515:ASP:CG	1:Mc:4:LEU:HB2	2.40	0.47
1:LQ:49:ASP:OD1	1:LQ:49:ASP:N	2.47	0.47
1:LS:269:PHE:HE1	1:LS:282:ILE:HG12	1.79	0.47
1:LS:296:SER:O	1:LS:311:ILE:HG13	2.15	0.47
1:LW:572:LEU:O	1:LW:573:PHE:C	2.56	0.47
1:LX:560:LEU:O	1:LX:564:ILE:HG12	2.14	0.47
1:La:215:LYS:HB2	1:La:329:ASN:ND2	2.29	0.47
1:Ld:617:VAL:O	1:Ld:622:GLU:HB2	2.14	0.47
1:Lw:91:ASN:OD1	1:Lw:91:ASN:N	2.47	0.47
1:Lw:389:VAL:O	1:Lw:393:VAL:HG23	2.14	0.47
1:Lx:143:ILE:HD12	1:Lx:145:ILE:HD11	1.96	0.47
1:Lz:131:ILE:HA	1:Lz:143:ILE:HG22	1.95	0.47
1:M1:566:ARG:O	1:M1:569:LYS:HB3	2.13	0.47
1:M6:146:PRO:HB3	1:M6:258:GLY:HA3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M6:510:ARG:HE	1:M7:363:ALA:HB3	1.79	0.47
1:M7:372:LEU:HD21	1:M7:478:CYS:HB2	1.96	0.47
1:M8:31:GLY:HA3	1:M8:64:TYR:CD2	2.49	0.47
1:M8:157:VAL:HG23	1:M8:159:GLU:H	1.79	0.47
1:MQ:346:SER:O	1:MQ:349:GLU:N	2.30	0.47
1:MR:650:ASP:C	1:MR:652:ASP:H	2.22	0.47
1:MU:28:ALA:HB2	1:MU:370:VAL:HG21	1.97	0.47
1:MW:455:LYS:HD3	1:MW:502:VAL:HG22	1.96	0.47
1:MX:485:SER:OG	1:MX:486:GLN:N	2.46	0.47
1:MY:63:ASP:O	1:MY:67:SER:OG	2.31	0.47
1:MY:524:PRO:HG2	1:MY:536:TYR:HB3	1.96	0.47
1:Mb:219:ILE:HG22	1:Mb:255:TYR:HD2	1.78	0.47
1:Mc:494:TYR:OH	1:Md:569:LYS:NZ	2.47	0.47
1:Mv:505:LEU:HD12	1:Mv:505:LEU:HA	1.71	0.47
1:Mw:389:VAL:O	1:Mw:393:VAL:HG23	2.14	0.47
1:Mw:453:ASN:HB3	1:Mw:507:ILE:HG12	1.95	0.47
1:Mx:614:THR:C	1:Mx:616:SER:H	2.23	0.47
1:NV:444:SER:OG	1:NV:543:SER:OG	2.17	0.47
1:NV:571:ARG:NH2	1:NV:587:GLU:OE1	2.42	0.47
1:NZ:94:PRO:HD3	1:NZ:222:VAL:O	2.14	0.47
1:NZ:638:ILE:HG12	1:Na:623:PHE:HB3	1.96	0.47
1:Nb:612:ASN:HB3	1:Nb:624:VAL:HG23	1.96	0.47
1:Nb:617:VAL:HG22	1:Nb:622:GLU:HB2	1.96	0.47
1:Nd:94:PRO:HD3	1:Nd:222:VAL:O	2.14	0.47
1:Ne:572:LEU:O	1:Ne:573:PHE:C	2.57	0.47
1:Nf:392:HIS:O	1:Nf:395:SER:OG	2.24	0.47
1:Nf:480:ARG:O	1:Nf:484:VAL:HG12	2.15	0.47
1:Ni:28:ALA:HB2	1:Ni:370:VAL:HG21	1.95	0.47
1:Ni:110:TYR:CZ	1:Ni:171:ILE:HD12	2.49	0.47
1:Nj:209:ASP:OD1	1:Nj:209:ASP:N	2.47	0.47
1:Nv:284:ARG:HG2	1:Nv:289:ILE:HD13	1.96	0.47
1:Nw:485:SER:OG	1:Nw:486:GLN:N	2.47	0.47
1:Nz:116:ILE:N	1:Nz:129:GLY:O	2.48	0.47
2:OF:69:TRP:CZ3	2:OF:132:LEU:HD21	2.49	0.47
2:OJ:136:ASN:HB3	2:OJ:156:THR:HG23	1.97	0.47
2:Oj:25:ILE:C	2:Oj:27:TYR:H	2.22	0.47
2:Ok:114:ARG:HG2	2:Ok:126:GLU:HG3	1.96	0.47
2:Oo:120:ALA:HB2	2:PI:99:ILE:O	2.13	0.47
2:Os:114:ARG:HG2	2:Os:126:GLU:HG3	1.97	0.47
2:PC:80:ASP:O	2:PC:84:LYS:HG3	2.14	0.47
2:PE:24:GLU:HB2	2:PE:114:ARG:HH12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PK:72:THR:HG22	2:PK:154:GLU:HG3	1.95	0.47
2:Pj:14:ASP:OD1	2:Pj:15:PHE:N	2.48	0.47
2:Pl:54:MET:H	2:Pl:54:MET:HG2	1.34	0.47
2:Ps:83:GLN:HA	2:Ps:86:VAL:HG22	1.96	0.47
2:RC:132:LEU:HD13	2:RC:159:LEU:HB3	1.96	0.47
2:RD:23:VAL:HG22	2:RD:36:CYS:SG	2.54	0.47
2:RS:22:GLN:HB2	2:RS:116:TYR:HE2	1.79	0.47
2:RT:58:ILE:HD12	2:Rk:6:VAL:HG21	1.96	0.47
2:Rs:104:PRO:HA	2:Rs:107:TYR:CE2	2.49	0.47
1:K0:147:THR:O	1:K0:147:THR:OG1	2.30	0.47
1:K0:485:SER:OG	1:K0:486:GLN:N	2.46	0.47
1:K1:444:SER:OG	1:K1:543:SER:OG	2.19	0.47
1:K6:32:LYS:HE2	1:K6:350:VAL:HB	1.96	0.47
1:K6:438:ASP:OD1	1:K6:438:ASP:N	2.47	0.47
1:K7:198:ILE:HG23	1:K7:324:PHE:CE2	2.49	0.47
1:K8:118:VAL:HG22	1:K8:169:ALA:HB2	1.95	0.47
1:K8:269:PHE:CE2	1:K8:294:VAL:HG23	2.50	0.47
1:K9:94:PRO:HD3	1:K9:340:LEU:HD22	1.96	0.47
1:K9:489:MET:HB3	1:K9:496:ARG:NH1	2.29	0.47
1:L0:548:PHE:CZ	1:L9:644:ALA:HB2	2.49	0.47
1:L1:34:GLN:OE1	1:L1:58:THR:OG1	2.30	0.47
1:L2:477:LEU:O	1:L2:481:THR:OG1	2.32	0.47
1:L4:446:THR:HB	1:L4:554:ARG:HH21	1.79	0.47
1:L7:411:ARG:O	1:L7:415:VAL:HB	2.14	0.47
1:L7:485:SER:OG	1:L7:486:GLN:N	2.41	0.47
1:LR:378:CYS:SG	1:LR:469:PRO:HB3	2.54	0.47
1:LS:494:TYR:HE2	1:LS:528:THR:HG21	1.78	0.47
1:LS:572:LEU:O	1:LS:573:PHE:C	2.58	0.47
1:LU:151:ILE:HG22	1:LU:187:ILE:HG13	1.96	0.47
1:LV:368:VAL:O	1:LV:400:ARG:NH2	2.47	0.47
1:LV:432:ALA:HB2	1:LV:440:ASN:HD22	1.78	0.47
1:LZ:39:PHE:HE1	1:LZ:86:ARG:HD2	1.78	0.47
1:LZ:510:ARG:HG2	1:LZ:511:GLN:H	1.79	0.47
1:La:23:SER:OG	1:La:74:TYR:O	2.32	0.47
1:Ld:161:PRO:O	1:Ld:186:LYS:HB2	2.14	0.47
1:Le:107:GLY:HA3	1:Le:110:TYR:CE2	2.50	0.47
1:Le:620:ARG:NE	1:Le:622:GLU:OE2	2.47	0.47
1:Lv:137:ASP:OD1	1:Lv:137:ASP:N	2.33	0.47
1:Lw:455:LYS:NZ	1:Lw:473:ASP:OD1	2.41	0.47
1:Lx:28:ALA:HB2	1:Lx:370:VAL:HG21	1.96	0.47
1:Lz:450:ILE:O	1:Lz:523:ASN:ND2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M3:32:LYS:NZ	1:M3:60:GLU:OE2	2.47	0.47
1:M3:494:TYR:HE2	1:M3:528:THR:HG21	1.79	0.47
1:M4:235:GLU:OE2	1:M4:261:ARG:NH1	2.33	0.47
1:M8:120:TYR:HE2	1:M8:157:VAL:HG11	1.79	0.47
1:MQ:256:PRO:HG2	1:MQ:339:THR:H	1.80	0.47
1:MS:378:CYS:HB2	1:MS:410:PRO:HA	1.95	0.47
1:MU:29:LEU:O	1:MU:80:VAL:HA	2.14	0.47
1:MU:221:GLY:O	1:MU:325:ALA:HA	2.15	0.47
1:MW:30:ALA:HB3	1:MW:359:TRP:CE2	2.49	0.47
1:MY:351:THR:OG1	1:MY:352:ALA:N	2.46	0.47
1:MY:505:LEU:HD22	1:MY:533:TYR:CD2	2.49	0.47
1:MZ:90:LYS:HB3	1:MZ:191:SER:OG	2.14	0.47
1:Ma:47:GLU:OE1	1:Ma:461:TYR:OH	2.33	0.47
1:Ma:642:PHE:CZ	1:Mb:564:ILE:HD11	2.49	0.47
1:Mb:36:GLY:O	1:Mb:82:ARG:NH1	2.47	0.47
1:Mb:315:PHE:CE2	1:Mb:325:ALA:HB3	2.49	0.47
1:Md:109:ASN:H	1:Md:137:ASP:HB2	1.79	0.47
1:Md:219:ILE:H	1:Md:219:ILE:HD13	1.78	0.47
1:NW:612:ASN:HB3	1:NW:624:VAL:HG23	1.95	0.47
1:NX:438:ASP:OD1	1:NX:438:ASP:N	2.46	0.47
1:NZ:143:ILE:HD12	1:NZ:145:ILE:HD11	1.96	0.47
1:NZ:561:LYS:NZ	1:Nx:12:GLU:OE2	2.42	0.47
1:Na:614:THR:O	1:Na:616:SER:N	2.47	0.47
1:Nc:198:ILE:HG23	1:Nc:324:PHE:HE2	1.80	0.47
1:Nc:572:LEU:HD12	1:Nc:572:LEU:HA	1.76	0.47
1:Nd:406:LEU:HD22	1:Nd:474:ILE:HG13	1.96	0.47
1:Nd:455:LYS:HD3	1:Nd:502:VAL:HG22	1.96	0.47
1:Nf:110:TYR:H	1:Nf:138:GLY:CA	2.28	0.47
1:Nf:480:ARG:C	1:Nf:482:ASP:H	2.21	0.47
1:Ng:89:ALA:HA	1:Ng:345:SER:O	2.14	0.47
1:Nh:538:ASP:O	1:Nh:551:ILE:HG13	2.15	0.47
1:Nj:470:LEU:HD23	1:Nj:525:VAL:HG21	1.97	0.47
1:Nv:253:PRO:HG2	1:Nv:255:TYR:CE1	2.50	0.47
1:Nv:505:LEU:HD21	1:Nv:525:VAL:HG12	1.96	0.47
1:Nw:505:LEU:HD21	1:Nw:525:VAL:HG12	1.94	0.47
1:Nx:157:VAL:HG23	1:Nx:159:GLU:H	1.79	0.47
1:Nz:256:PRO:HG2	1:Nz:339:THR:H	1.79	0.47
1:Nz:455:LYS:HE2	1:Nz:502:VAL:HG22	1.95	0.47
2:OF:19:ASN:ND2	2:RT:55:ASN:OD1	2.47	0.47
2:OK:113:VAL:HG13	2:OK:127:ILE:HG12	1.95	0.47
2:Oj:72:THR:HG22	2:Oj:154:GLU:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:On:82:ARG:NH1	2:On:138:GLY:HA2	2.29	0.47
2:Op:23:VAL:HG11	2:Op:39:THR:HG21	1.95	0.47
2:PF:82:ARG:HH11	2:PF:140:LEU:HD13	1.79	0.47
2:PN:136:ASN:HB3	2:PN:156:THR:HG23	1.95	0.47
2:Pn:120:ALA:HB2	2:RH:99:ILE:O	2.15	0.47
2:Pq:89:GLN:HG3	2:Pq:134:PRO:HG2	1.96	0.47
2:Pq:136:ASN:O	2:Pq:136:ASN:ND2	2.46	0.47
2:RD:69:TRP:HB2	2:RD:159:LEU:HD23	1.96	0.47
2:RF:80:ASP:O	2:RF:84:LYS:HG3	2.14	0.47
2:RJ:134:PRO:HB2	2:RJ:137:VAL:HG12	1.95	0.47
2:RT:82:ARG:HH11	2:RT:138:GLY:HA2	1.78	0.47
2:Ro:73:VAL:HB	2:Ro:153:PHE:CE1	2.48	0.47
2:Rs:82:ARG:HH11	2:Rs:138:GLY:HA2	1.78	0.47
1:K0:202:GLU:OE1	1:K0:203:ALA:N	2.47	0.47
1:K1:36:GLY:O	1:K1:82:ARG:NH1	2.44	0.47
1:K2:379:ALA:O	1:K2:381:GLU:N	2.45	0.47
1:K3:116:ILE:N	1:K3:129:GLY:O	2.47	0.47
1:K3:604:TYR:HA	1:K3:628:TYR:O	2.15	0.47
1:K4:153:LYS:HB3	1:K4:167:TRP:HH2	1.80	0.47
1:K7:199:GLU:OE1	1:K7:200:ASN:N	2.48	0.47
1:K7:275:THR:OG1	1:K7:278:GLN:HG3	2.15	0.47
1:L6:253:PRO:HA	1:L6:259:GLY:O	2.14	0.47
1:L6:572:LEU:O	1:L6:573:PHE:C	2.57	0.47
1:L7:315:PHE:CE2	1:L7:325:ALA:HB3	2.50	0.47
1:L8:351:THR:OG1	1:L8:352:ALA:N	2.47	0.47
1:L9:107:GLY:HA3	1:L9:110:TYR:HE2	1.79	0.47
1:L9:451:ASP:OD2	1:L9:470:LEU:HB3	2.15	0.47
1:LQ:110:TYR:CD1	1:LQ:177:GLY:HA3	2.49	0.47
1:LR:100:GLU:OE1	1:LR:186:LYS:NZ	2.40	0.47
1:LY:193:ILE:HG21	1:LY:223:VAL:HG11	1.96	0.47
1:LZ:410:PRO:HD2	1:LZ:413:THR:HG21	1.95	0.47
1:Lb:638:ILE:HG23	1:Lc:623:PHE:HD2	1.79	0.47
1:Ld:470:LEU:HD23	1:Ld:525:VAL:HG21	1.97	0.47
1:Lw:26:THR:HA	1:Lw:77:ASP:O	2.14	0.47
1:M3:264:THR:O	1:M3:266:LYS:N	2.47	0.47
1:M6:23:SER:O	1:M6:76:ASN:HB2	2.14	0.47
1:M8:198:ILE:HG13	1:M8:225:LEU:HD11	1.95	0.47
1:MQ:11:LYS:HG2	1:MQ:13:THR:HG23	1.95	0.47
1:MU:100:GLU:HG2	1:MU:186:LYS:O	2.14	0.47
1:MW:451:ASP:OD1	1:MW:452:GLY:N	2.44	0.47
1:MX:572:LEU:O	1:MX:573:PHE:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ma:134:VAL:HA	1:Ma:140:ILE:HA	1.97	0.47
1:Me:538:ASP:OD1	1:Me:538:ASP:N	2.41	0.47
1:Mv:315:PHE:CE2	1:Mv:325:ALA:HB3	2.49	0.47
1:Mx:91:ASN:OD1	1:Mx:194:LEU:HA	2.15	0.47
1:Mx:151:ILE:O	1:Mx:155:LYS:HG2	2.14	0.47
1:Mx:238:ILE:HG23	1:Mx:281:ILE:HD13	1.97	0.47
1:Mz:601:ILE:HG12	1:Mz:629:ILE:HD12	1.96	0.47
1:NX:91:ASN:OD1	1:NX:194:LEU:HA	2.14	0.47
1:Ne:31:GLY:HA3	1:Ne:64:TYR:CD2	2.48	0.47
1:Nf:378:CYS:HA	1:Nf:386:ALA:HB1	1.96	0.47
1:Nh:228:GLY:HA2	1:Nh:345:SER:HB3	1.96	0.47
1:Ni:296:SER:O	1:Ni:311:ILE:HG13	2.14	0.47
1:Nv:57:PRO:HG3	1:Nv:65:PHE:HB3	1.96	0.47
1:Nv:635:ILE:HD13	1:Nw:623:PHE:HB2	1.95	0.47
1:Nz:332:GLU:OE1	1:Nz:332:GLU:N	2.47	0.47
2:OD:2:PHE:HD1	2:PC:97:ASN:HB3	1.79	0.47
2:OD:140:LEU:HD12	2:OD:140:LEU:HA	1.68	0.47
2:Oh:82:ARG:O	2:Oh:86:VAL:HG13	2.14	0.47
2:Oh:136:ASN:O	2:Oh:136:ASN:ND2	2.47	0.47
2:Ok:120:ALA:HB3	2:Ok:121:LYS:HD3	1.96	0.47
2:Ot:94:GLY:HA3	2:Ot:100:THR:OG1	2.15	0.47
2:Pk:54:MET:HE2	2:Pl:1:MET:HE1	1.97	0.47
2:RD:82:ARG:HH12	2:RD:138:GLY:HA2	1.78	0.47
2:RI:82:ARG:HH12	2:RI:138:GLY:HA2	1.79	0.47
2:RJ:25:ILE:C	2:RJ:27:TYR:H	2.22	0.47
2:RJ:39:THR:HG22	2:RJ:71:VAL:HG13	1.97	0.47
2:Rs:38:ALA:HB3	2:Rs:72:THR:HG23	1.97	0.47
1:K0:33:PHE:O	1:K0:82:ARG:NH2	2.47	0.47
1:K0:480:ARG:C	1:K0:482:ASP:H	2.21	0.47
1:K2:57:PRO:HB3	1:K2:62:ALA:HA	1.97	0.47
1:K3:429:TRP:HZ3	1:K3:450:ILE:HD11	1.80	0.47
1:K5:206:THR:HA	1:K5:211:GLN:HE21	1.80	0.47
1:K6:235:GLU:OE2	1:K6:261:ARG:NH2	2.48	0.47
1:K7:291:GLN:OE1	1:K7:320:SER:OG	2.19	0.47
1:K7:453:ASN:OD1	1:K7:505:LEU:HG	2.15	0.47
1:K8:166:ASN:OD1	1:K8:166:ASN:N	2.48	0.47
1:L1:269:PHE:CE2	1:L1:280:ALA:HB1	2.49	0.47
1:L4:112:VAL:HG22	1:L4:134:VAL:HG22	1.95	0.47
1:L5:104:SER:OG	1:L5:183:THR:OG1	2.28	0.47
1:L6:118:VAL:HG22	1:L6:169:ALA:HB2	1.97	0.47
1:L7:451:ASP:OD2	1:L7:470:LEU:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LQ:110:TYR:H	1:LQ:138:GLY:HA3	1.79	0.47
1:LS:162:THR:O	1:LS:186:LYS:HB3	2.14	0.47
1:LW:455:LYS:HB3	1:LW:470:LEU:HD13	1.97	0.47
1:LY:109:ASN:H	1:LY:137:ASP:HB2	1.79	0.47
1:Lb:110:TYR:N	1:Lb:138:GLY:HA3	2.28	0.47
1:Lb:639:THR:HB	1:Lc:624:VAL:HG12	1.97	0.47
1:Le:410:PRO:O	1:Le:413:THR:HG22	2.15	0.47
1:Lv:410:PRO:O	1:Lv:413:THR:HG22	2.14	0.47
1:Lv:645:THR:OG1	1:Lw:629:ILE:O	2.30	0.47
1:Lw:240:SER:HA	1:Lw:279:TYR:HD1	1.79	0.47
1:Lw:569:LYS:HA	1:MQ:8:ILE:HD11	1.96	0.47
1:M2:46:ASN:HB3	1:M2:49:ASP:OD1	2.14	0.47
1:M3:91:ASN:OD1	1:M3:91:ASN:N	2.46	0.47
1:M5:49:ASP:N	1:M5:49:ASP:OD1	2.47	0.47
1:M5:406:LEU:HD13	1:M5:475:ALA:HB2	1.94	0.47
1:M7:432:ALA:HB2	1:M7:440:ASN:HD22	1.79	0.47
1:M8:41:ILE:HD11	1:M8:361:PHE:HB3	1.97	0.47
1:MV:120:TYR:CE2	1:MV:157:VAL:HG11	2.50	0.47
1:MZ:569:LYS:O	1:MZ:572:LEU:HB2	2.15	0.47
1:Mb:614:THR:C	1:Mb:616:SER:H	2.21	0.47
1:Mc:332:GLU:OE1	1:Mc:332:GLU:N	2.45	0.47
1:Mv:400:ARG:NH1	1:Mv:403:CYS:HG	2.11	0.47
1:Mw:451:ASP:OD1	1:Mw:474:ILE:HD13	2.15	0.47
1:Mx:95:ILE:O	1:Mx:98:ASN:ND2	2.46	0.47
1:Mx:494:TYR:HE2	1:Mx:528:THR:HG21	1.78	0.47
1:Nb:46:ASN:OD1	1:Nb:47:GLU:N	2.48	0.47
1:Nb:104:SER:HB2	1:Nb:181:VAL:HB	1.95	0.47
1:Nd:444:SER:OG	1:Nd:543:SER:OG	2.17	0.47
1:Ne:455:LYS:HB2	1:Ne:470:LEU:HD13	1.95	0.47
1:Ng:137:ASP:OD1	1:Ng:137:ASP:N	2.42	0.47
1:Ng:373:PHE:O	1:Ng:406:LEU:HD12	2.14	0.47
1:Ni:94:PRO:HD3	1:Ni:222:VAL:O	2.13	0.47
1:Nw:29:LEU:O	1:Nw:80:VAL:HA	2.15	0.47
1:Nw:66:MET:HG2	1:Nw:468:VAL:HG21	1.96	0.47
2:OD:44:GLY:O	2:Oi:89:GLN:NE2	2.38	0.47
2:OJ:82:ARG:O	2:OJ:86:VAL:HG13	2.15	0.47
2:On:134:PRO:HA	2:On:157:LEU:HA	1.96	0.47
2:PO:120:ALA:HB3	2:PO:121:LYS:HD2	1.96	0.47
2:Pm:23:VAL:HG11	2:Pm:39:THR:HG21	1.96	0.47
2:RF:113:VAL:HG13	2:RF:127:ILE:HG12	1.95	0.47
2:RJ:107:TYR:O	2:RJ:133:TRP:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Rl:56:ARG:HB3	2:Rl:56:ARG:NH1	2.30	0.47
1:K0:23:SER:O	1:K0:76:ASN:HB2	2.14	0.47
1:K0:269:PHE:CE2	1:K0:280:ALA:HB1	2.49	0.47
1:K0:484:VAL:HG13	1:K0:485:SER:H	1.79	0.47
1:K0:614:THR:C	1:K0:616:SER:H	2.23	0.47
1:K0:620:ARG:HB2	1:K0:622:GLU:HG3	1.95	0.47
1:K1:94:PRO:HD3	1:K1:222:VAL:O	2.13	0.47
1:K1:455:LYS:HZ1	1:K1:473:ASP:CG	2.22	0.47
1:K3:278:GLN:HG2	1:K3:296:SER:HB3	1.97	0.47
1:K4:82:ARG:NH2	1:K4:227:PRO:O	2.48	0.47
1:K4:406:LEU:HD22	1:K4:474:ILE:HG13	1.96	0.47
1:K5:31:GLY:HA3	1:K5:64:TYR:CD2	2.49	0.47
1:K6:19:VAL:HG21	1:Nf:655:THR:HB	1.96	0.47
1:K6:153:LYS:HD3	1:K6:156:GLU:HB2	1.96	0.47
1:K6:198:ILE:HG23	1:K6:324:PHE:HE2	1.79	0.47
1:K7:14:THR:HA	1:Ng:643:VAL:HG22	1.97	0.47
1:K7:253:PRO:HG2	1:K7:255:TYR:CE1	2.49	0.47
1:K7:521:ALA:HB1	1:K7:541:ALA:HA	1.97	0.47
1:K7:564:ILE:HD12	1:K7:627:PHE:CZ	2.50	0.47
1:K8:350:VAL:HG13	1:K8:354:ASP:HB2	1.95	0.47
1:L0:40:GLN:H	1:L0:81:VAL:HG23	1.80	0.47
1:L0:198:ILE:HD11	1:L0:225:LEU:HD11	1.97	0.47
1:L1:16:GLN:OE1	1:L1:460:LYS:HB2	2.14	0.47
1:L3:22:ASN:OD1	1:L3:22:ASN:N	2.48	0.47
1:L4:2:THR:OG1	1:L4:3:LEU:N	2.48	0.47
1:L4:368:VAL:O	1:L4:400:ARG:NH2	2.48	0.47
1:L5:467:TRP:CZ3	1:L6:199:GLU:HB2	2.49	0.47
1:L5:505:LEU:HD21	1:L5:525:VAL:HG12	1.97	0.47
1:L9:368:VAL:O	1:L9:400:ARG:NH2	2.47	0.47
1:LU:440:ASN:OD1	1:LU:440:ASN:N	2.48	0.47
1:LV:23:SER:O	1:LV:76:ASN:HB2	2.14	0.47
1:LV:488:TRP:O	1:LV:552:ASN:ND2	2.48	0.47
1:LW:117:THR:HG23	1:LW:127:THR:HA	1.97	0.47
1:LX:23:SER:O	1:LX:76:ASN:HB2	2.15	0.47
1:LX:198:ILE:HG22	1:LX:316:ALA:HA	1.96	0.47
1:LX:432:ALA:CB	1:LX:440:ASN:HD22	2.27	0.47
1:LX:480:ARG:O	1:LX:484:VAL:HG12	2.14	0.47
1:LY:26:THR:HA	1:LY:77:ASP:O	2.15	0.47
1:LZ:107:GLY:HA3	1:LZ:110:TYR:CE2	2.50	0.47
1:LZ:134:VAL:HG12	1:LZ:140:ILE:HG22	1.95	0.47
1:Lb:35:TRP:HB2	1:Lb:230:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lc:131:ILE:HD11	1:Lc:171:ILE:HD13	1.96	0.47
1:Lv:480:ARG:C	1:Lv:482:ASP:H	2.22	0.47
1:Lw:202:GLU:OE1	1:Lw:203:ALA:N	2.48	0.47
1:Lx:110:TYR:HB2	1:Lx:138:GLY:HA2	1.95	0.47
1:Lz:105:THR:O	1:Lz:180:ALA:HA	2.15	0.47
1:Lz:273:PRO:HB3	1:Lz:278:GLN:HB2	1.97	0.47
1:M0:351:THR:HG23	1:M0:354:ASP:H	1.80	0.47
1:M2:480:ARG:C	1:M2:482:ASP:H	2.22	0.47
1:M4:451:ASP:HB2	1:M4:474:ILE:HD13	1.96	0.47
1:M5:104:SER:HG	1:M5:183:THR:HG1	1.62	0.47
1:M5:143:ILE:HD13	1:M5:182:ILE:HD13	1.97	0.47
1:M6:451:ASP:CG	1:M6:452:GLY:H	2.23	0.47
1:M6:480:ARG:NH2	1:M6:498:GLN:O	2.44	0.47
1:M6:614:THR:O	1:M6:616:SER:N	2.47	0.47
1:M6:644:ALA:O	1:M6:645:THR:OG1	2.32	0.47
1:M7:238:ILE:HG23	1:M7:281:ILE:HD13	1.95	0.47
1:M7:368:VAL:HG12	1:M7:370:VAL:HG22	1.96	0.47
1:M7:423:VAL:HG21	1:M7:513:GLN:HB3	1.97	0.47
1:M8:379:ALA:HB2	1:M8:469:PRO:HD3	1.96	0.47
1:M9:296:SER:O	1:M9:311:ILE:HG13	2.14	0.47
1:MQ:169:ALA:HB2	1:MQ:184:LEU:HD11	1.95	0.47
1:MR:70:ASN:OD1	1:MR:457:GLN:NE2	2.34	0.47
1:MR:284:ARG:HG2	1:MR:289:ILE:HD13	1.96	0.47
1:MS:482:ASP:OD1	1:MS:487:THR:HB	2.15	0.47
1:MU:584:PHE:O	1:MU:588:THR:OG1	2.31	0.47
1:MV:66:MET:HG2	1:MV:468:VAL:HG21	1.96	0.47
1:MV:240:SER:OG	1:MV:335:SER:OG	2.23	0.47
1:MX:269:PHE:CE2	1:MX:280:ALA:HB1	2.50	0.47
1:MX:614:THR:C	1:MX:616:SER:H	2.23	0.47
1:MZ:41:ILE:HD11	1:MZ:361:PHE:HB3	1.96	0.47
1:MZ:225:LEU:HG	1:MZ:226:TYR:CE1	2.50	0.47
1:MZ:602:TYR:HB2	1:MZ:630:GLN:HG2	1.96	0.47
1:Ma:103:ILE:HD13	1:Ma:182:ILE:HG22	1.96	0.47
1:Mb:378:CYS:SG	1:Mb:379:ALA:N	2.88	0.47
1:Mv:110:TYR:H	1:Mv:138:GLY:HA3	1.79	0.47
1:Mv:155:LYS:HD3	1:Mv:160:TYR:HB3	1.95	0.47
1:Mv:365:ARG:HA	1:Mv:400:ARG:HH21	1.80	0.47
1:Mv:451:ASP:OD1	1:Mv:474:ILE:HD13	2.15	0.47
1:Mw:119:LYS:HE3	1:Mw:122:SER:HA	1.96	0.47
1:Mw:119:LYS:HG2	1:Mw:124:ASP:HA	1.96	0.47
1:Mw:147:THR:HA	1:Mw:150:ILE:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mz:561:LYS:NZ	1:NX:12:GLU:OE2	2.24	0.47
1:NV:383:LEU:HD22	1:NV:439:ASN:HB2	1.96	0.47
1:NX:346:SER:O	1:NX:350:VAL:HG23	2.15	0.47
1:NX:455:LYS:NZ	1:NX:473:ASP:OD2	2.48	0.47
1:NZ:451:ASP:CG	1:NZ:452:GLY:H	2.23	0.47
1:Ne:394:VAL:HG11	1:Ne:443:ILE:HD12	1.96	0.47
1:Ne:410:PRO:O	1:Ne:413:THR:HG22	2.14	0.47
1:Nf:66:MET:HG2	1:Nf:468:VAL:HG21	1.97	0.47
1:Nf:94:PRO:HD3	1:Nf:222:VAL:O	2.15	0.47
1:Nh:490:SER:O	1:Nh:496:ARG:NH1	2.47	0.47
1:Ni:247:GLY:O	1:Ni:263:SER:OG	2.28	0.47
1:Ni:620:ARG:HB2	1:Ni:622:GLU:HG3	1.96	0.47
1:Nv:119:LYS:HE3	1:Nv:122:SER:HA	1.97	0.47
1:Nv:220:PRO:HD3	1:Nv:334:PHE:CE2	2.49	0.47
1:Nv:423:VAL:HG13	1:Nv:517:LEU:HD13	1.96	0.47
1:Nw:100:GLU:OE2	1:Nw:186:LYS:HG3	2.15	0.47
1:Nw:163:LEU:HD11	1:Nw:187:ILE:HG12	1.97	0.47
1:Nw:383:LEU:HD22	1:Nw:439:ASN:HB3	1.96	0.47
1:Nw:478:CYS:O	1:Nw:555:ARG:NH1	2.45	0.47
1:Nw:651:PHE:O	1:Nw:654:LEU:HB2	2.15	0.47
1:Nz:29:LEU:O	1:Nz:80:VAL:HA	2.14	0.47
2:OG:14:ASP:CG	2:OG:17:ARG:HH21	2.21	0.47
2:OG:56:ARG:HH12	2:Ol:66:PHE:HE2	1.63	0.47
2:OH:57:LYS:HE2	2:OH:57:LYS:HB3	1.62	0.47
2:OK:27:TYR:CD1	2:OK:109:LYS:HE2	2.50	0.47
2:OK:68:ASP:OD1	2:Rp:48:LYS:NZ	2.41	0.47
2:Oh:54:MET:HE3	2:PD:20:LEU:HA	1.97	0.47
2:Oj:137:VAL:HB	2:Oj:155:VAL:HG13	1.97	0.47
2:Om:1:MET:HE3	2:Om:1:MET:HB2	1.71	0.47
2:Oq:113:VAL:HG13	2:Oq:127:ILE:HG12	1.96	0.47
2:PH:140:LEU:HD13	2:PH:153:PHE:HB3	1.96	0.47
2:PJ:37:LYS:NZ	2:PJ:152:THR:OG1	2.46	0.47
2:PJ:38:ALA:HB3	2:PJ:72:THR:HG23	1.96	0.47
2:PJ:154:GLU:N	2:PJ:154:GLU:OE1	2.47	0.47
2:Pi:14:ASP:OD1	2:Pi:17:ARG:NH2	2.48	0.47
2:Pk:83:GLN:HA	2:Pk:86:VAL:HG22	1.97	0.47
2:Pn:104:PRO:HB3	2:Pn:108:LYS:HD2	1.96	0.47
2:Po:82:ARG:NH1	2:Po:138:GLY:HA2	2.29	0.47
2:Ps:23:VAL:HG13	2:Ps:36:CYS:SG	2.55	0.47
2:RE:46:VAL:HG22	2:RE:64:ARG:HB3	1.96	0.47
2:RL:22:GLN:HB2	2:RL:116:TYR:HE1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RM:67:ASP:OD1	2:RM:67:ASP:N	2.35	0.47
2:RO:76:ASP:OD2	2:RO:81:ALA:N	2.46	0.47
2:Rp:112:ILE:HD11	2:Rp:126:GLU:OE2	2.15	0.47
1:K1:315:PHE:CE2	1:K1:325:ALA:HB3	2.49	0.47
1:K1:378:CYS:HB2	1:K1:410:PRO:HA	1.96	0.47
1:K3:560:LEU:O	1:K3:564:ILE:HG12	2.15	0.47
1:K5:378:CYS:HB2	1:K5:410:PRO:HA	1.96	0.47
1:K6:135:ASP:HB3	1:K6:139:LYS:HB2	1.96	0.47
1:K8:394:VAL:HG11	1:K8:443:ILE:HD12	1.97	0.47
1:K8:642:PHE:HE2	1:K9:564:ILE:HD11	1.80	0.47
1:L2:488:TRP:HB2	1:L2:556:LEU:HD12	1.95	0.47
1:L3:379:ALA:HA	1:L3:411:ARG:HB2	1.97	0.47
1:L3:438:ASP:OD1	1:L3:438:ASP:N	2.25	0.47
1:L6:368:VAL:O	1:L6:400:ARG:NH2	2.48	0.47
1:L6:488:TRP:HB3	1:L6:556:LEU:HB2	1.97	0.47
1:L8:481:THR:HG23	1:L8:496:ARG:HD2	1.96	0.47
1:LS:515:ASP:OD1	1:Lx:5:SER:N	2.48	0.47
1:LU:22:ASN:OD1	1:LU:22:ASN:N	2.48	0.47
1:LU:423:VAL:HG21	1:LU:513:GLN:HB3	1.96	0.47
1:LU:576:ASN:HD22	1:LU:618:ILE:HG12	1.80	0.47
1:LX:394:VAL:HG11	1:LX:443:ILE:HD12	1.97	0.47
1:LX:592:LEU:HD23	1:LX:604:TYR:HB2	1.97	0.47
1:LY:436:TYR:HB3	1:LY:439:ASN:O	2.15	0.47
1:Le:400:ARG:HD3	1:Le:403:CYS:SG	2.55	0.47
1:Lx:379:ALA:HA	1:Lx:411:ARG:HB2	1.96	0.47
1:Lx:560:LEU:HD21	1:Lx:601:ILE:HD11	1.96	0.47
1:M2:137:ASP:OD1	1:M2:137:ASP:N	2.40	0.47
1:M5:110:TYR:H	1:M5:138:GLY:HA3	1.80	0.47
1:M8:572:LEU:O	1:M8:573:PHE:C	2.58	0.47
1:M9:454:TYR:HB3	1:M9:467:TRP:HD1	1.80	0.47
1:M9:479:ALA:O	1:M9:483:ASN:ND2	2.48	0.47
1:MQ:642:PHE:CZ	1:MR:564:ILE:HD11	2.50	0.47
1:MX:100:GLU:HG2	1:MX:186:LYS:O	2.14	0.47
1:MY:135:ASP:OD1	1:MY:136:ALA:N	2.48	0.47
1:MZ:44:VAL:HG11	1:MZ:50:LEU:HB2	1.97	0.47
1:Ma:378:CYS:SG	1:Ma:469:PRO:HB3	2.54	0.47
1:Ma:400:ARG:HH11	1:Ma:403:CYS:HG	1.61	0.47
1:Mb:169:ALA:HB2	1:Mb:184:LEU:HD11	1.96	0.47
1:Md:220:PRO:HG2	1:Md:338:LEU:HD11	1.97	0.47
1:Me:462:ASN:HB2	1:Me:464:VAL:HG22	1.96	0.47
1:Mv:438:ASP:OD1	1:Mv:438:ASP:N	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mw:351:THR:OG1	1:Mw:352:ALA:N	2.47	0.47
1:Mw:528:THR:HB	1:Mw:531:ASP:HB3	1.96	0.47
1:Mx:118:VAL:HG22	1:Mx:169:ALA:HB2	1.97	0.47
1:NV:39:PHE:HE1	1:NV:86:ARG:HD2	1.79	0.47
1:NV:438:ASP:OD1	1:NV:438:ASP:N	2.43	0.47
1:NV:614:THR:C	1:NV:616:SER:H	2.23	0.47
1:NZ:241:LYS:HD3	1:NZ:273:PRO:O	2.15	0.47
1:NZ:272:GLY:O	1:NZ:274:GLN:NE2	2.48	0.47
1:NZ:470:LEU:HD23	1:NZ:525:VAL:HG21	1.95	0.47
1:Na:94:PRO:HD3	1:Na:222:VAL:O	2.15	0.47
1:Na:269:PHE:CE2	1:Na:280:ALA:HB1	2.50	0.47
1:Nd:572:LEU:HD12	1:Nd:572:LEU:HA	1.64	0.47
1:Nf:560:LEU:O	1:Nf:564:ILE:HG12	2.15	0.47
1:Ng:135:ASP:OD1	1:Ng:136:ALA:N	2.44	0.47
1:Nj:135:ASP:N	1:Nj:139:LYS:O	2.44	0.47
1:Nj:298:LYS:HB2	1:Nj:298:LYS:NZ	2.29	0.47
2:OO:133:TRP:CH2	2:Rt:61:ALA:HA	2.49	0.47
2:Oh:25:ILE:C	2:Oh:27:TYR:H	2.22	0.47
2:Oh:136:ASN:HB3	2:Oh:156:THR:HG23	1.96	0.47
2:Oj:143:ASP:OD1	2:Oj:144:TRP:N	2.47	0.47
2:Oo:94:GLY:HA3	2:Oo:100:THR:HG23	1.96	0.47
2:Or:83:GLN:HA	2:Or:86:VAL:HG22	1.97	0.47
2:Ot:27:TYR:CE1	2:Ot:109:LYS:HE2	2.49	0.47
2:PK:83:GLN:HA	2:PK:86:VAL:HG22	1.95	0.47
2:Pi:94:GLY:HA3	2:Pi:100:THR:HG23	1.97	0.47
2:Pl:58:ILE:HD12	2:Pm:6:VAL:HG21	1.97	0.47
2:Pp:55:ASN:ND2	2:RL:20:LEU:HD21	2.29	0.47
2:Pr:47:GLU:OE1	2:RN:148:ASN:ND2	2.35	0.47
2:Pt:131:GLY:O	2:Pt:159:LEU:HA	2.15	0.47
2:RL:25:ILE:C	2:RL:27:TYR:H	2.23	0.47
2:RR:49:ILE:O	2:RR:49:ILE:HG12	2.14	0.47
2:RS:125:LYS:HD3	2:RS:126:GLU:H	1.80	0.47
2:Rr:91:ILE:HG22	2:Rr:107:TYR:HB3	1.96	0.47
2:Rr:114:ARG:HB3	2:Rr:123:VAL:HG13	1.96	0.47
1:K2:26:THR:HA	1:K2:77:ASP:O	2.15	0.47
1:K3:159:GLU:HB3	1:K3:163:LEU:HA	1.96	0.47
1:K8:131:ILE:HD11	1:K8:171:ILE:HD13	1.96	0.47
1:K9:151:ILE:O	1:K9:155:LYS:HG2	2.15	0.47
1:K9:154:ALA:HA	1:K9:157:VAL:HG22	1.95	0.47
1:L0:134:VAL:HG12	1:L0:140:ILE:HG22	1.97	0.47
1:L1:620:ARG:HB2	1:L1:622:GLU:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L3:107:GLY:HA3	1:L3:110:TYR:HE2	1.80	0.47
1:L3:135:ASP:HB3	1:L3:139:LYS:HB2	1.96	0.47
1:L4:470:LEU:HD23	1:L4:525:VAL:HG21	1.97	0.47
1:L6:91:ASN:OD1	1:L6:91:ASN:N	2.47	0.47
1:L6:436:TYR:HB3	1:L6:439:ASN:O	2.15	0.47
1:L6:571:ARG:NH1	1:L6:584:PHE:HA	2.30	0.47
1:L7:159:GLU:O	1:L7:162:THR:N	2.48	0.47
1:L7:569:LYS:O	1:L7:572:LEU:HB2	2.15	0.47
1:LR:34:GLN:NE2	1:LR:56:GLN:O	2.48	0.47
1:LU:484:VAL:HG13	1:LU:485:SER:H	1.80	0.47
1:LU:514:ARG:NH1	1:LV:366:GLU:OE2	2.48	0.47
1:LV:253:PRO:HG2	1:LV:255:TYR:HE1	1.80	0.47
1:LV:389:VAL:O	1:LV:393:VAL:HG23	2.15	0.47
1:LX:57:PRO:HB3	1:LX:62:ALA:HA	1.96	0.47
1:LY:143:ILE:HD12	1:LY:145:ILE:HD11	1.97	0.47
1:LZ:454:TYR:HB3	1:LZ:467:TRP:CD1	2.49	0.47
1:La:365:ARG:HA	1:La:400:ARG:NH2	2.30	0.47
1:La:455:LYS:HB2	1:La:470:LEU:HD13	1.97	0.47
1:Lc:102:THR:HB	1:Lc:183:THR:HB	1.95	0.47
1:Lc:575:LEU:HB3	1:Lc:577:ASN:HD22	1.79	0.47
1:Lw:148:ALA:O	1:Lw:151:ILE:HG13	2.15	0.47
1:Lx:105:THR:HB	1:Lx:181:VAL:H	1.80	0.47
1:M0:273:PRO:HB3	1:M0:278:GLN:HB2	1.96	0.47
1:M0:614:THR:C	1:M0:616:SER:H	2.22	0.47
1:M2:69:MET:O	1:M2:73:GLN:HG2	2.15	0.47
1:M5:135:ASP:OD1	1:M5:136:ALA:N	2.47	0.47
1:M5:271:TYR:OH	1:MZ:549:ASP:OD2	2.28	0.47
1:M6:235:GLU:OE2	1:M6:261:ARG:NH2	2.48	0.47
1:M6:538:ASP:N	1:M6:538:ASP:OD1	2.48	0.47
1:M9:560:LEU:O	1:M9:564:ILE:HG12	2.14	0.47
1:MQ:251:LEU:HD23	1:MQ:262:ALA:HA	1.97	0.47
1:MR:99:ILE:HA	1:MR:187:ILE:HD13	1.97	0.47
1:MU:34:GLN:NE2	1:MU:56:GLN:H	2.11	0.47
1:MY:584:PHE:O	1:MY:588:THR:OG1	2.32	0.47
1:MZ:349:GLU:OE1	1:MZ:349:GLU:N	2.48	0.47
1:Ma:614:THR:C	1:Ma:616:SER:H	2.22	0.47
1:Mb:33:PHE:HA	1:Mb:61:THR:CG2	2.44	0.47
1:Md:32:LYS:HB3	1:Md:347:ASN:HD22	1.79	0.47
1:Md:450:ILE:HG12	1:Md:522:ILE:HG23	1.96	0.47
1:Me:381:GLU:HB3	1:Me:385:THR:HG23	1.97	0.47
1:Na:455:LYS:HD3	1:Na:502:VAL:HG13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nb:103:ILE:HD13	1:Nb:182:ILE:HG22	1.97	0.47
1:Nc:107:GLY:HA3	1:Nc:110:TYR:CE2	2.50	0.47
1:Nd:11:LYS:HG2	1:Nd:13:THR:HG23	1.96	0.47
1:Ne:107:GLY:HA3	1:Ne:180:ALA:HB2	1.96	0.47
1:Ne:441:PHE:CZ	1:Ne:443:ILE:HD11	2.49	0.47
1:Ne:569:LYS:O	1:Ne:572:LEU:HB2	2.15	0.47
1:Ng:252:LEU:HD22	1:Ng:335:SER:O	2.15	0.47
1:Nh:383:LEU:HD11	1:Nh:436:TYR:HE1	1.79	0.47
1:Ni:23:SER:O	1:Ni:76:ASN:HB2	2.14	0.47
1:Nj:247:GLY:O	1:Nj:263:SER:OG	2.33	0.47
1:Nx:110:TYR:H	1:Nx:138:GLY:CA	2.26	0.47
1:Nx:410:PRO:O	1:Nx:413:THR:HG22	2.15	0.47
1:Nz:549:ASP:O	1:Nz:550:ARG:NE	2.46	0.47
2:OG:115:GLN:HE21	2:OG:115:GLN:HB3	1.50	0.47
2:OM:64:ARG:HH12	2:Or:94:GLY:C	2.23	0.47
2:OM:140:LEU:HD12	2:OM:140:LEU:HA	1.74	0.47
2:OM:150:ILE:HG12	2:OM:151:GLN:N	2.29	0.47
2:Oi:69:TRP:HB2	2:Oi:159:LEU:HD23	1.95	0.47
2:Ok:49:ILE:HD11	2:Ol:17:ARG:HH12	1.80	0.47
2:On:49:ILE:HG23	2:On:60:VAL:HG12	1.97	0.47
2:Os:49:ILE:HG12	2:Os:60:VAL:HG12	1.97	0.47
2:Os:120:ALA:HB2	2:PM:99:ILE:O	2.15	0.47
2:PC:24:GLU:HB3	2:PC:112:ILE:HG23	1.97	0.47
2:PC:124:THR:HB	2:Ph:78:ALA:HA	1.97	0.47
2:PD:27:TYR:CE1	2:PD:109:LYS:HE2	2.50	0.47
2:PI:137:VAL:HA	2:PI:155:VAL:HG22	1.97	0.47
2:PL:140:LEU:HD13	2:PL:153:PHE:HB3	1.96	0.47
2:Pj:67:ASP:OD1	2:Pj:67:ASP:N	2.44	0.47
2:Pj:124:THR:HB	2:RE:78:ALA:HA	1.96	0.47
2:RD:41:LEU:HB2	2:RS:140:LEU:HB3	1.97	0.47
2:RE:41:LEU:HG	2:RE:127:ILE:HD13	1.97	0.47
2:RJ:53:PHE:CD1	2:RK:6:VAL:HG13	2.50	0.47
2:Rm:14:ASP:OD1	2:Rm:17:ARG:NH2	2.40	0.47
1:K2:536:TYR:HD1	1:K2:536:TYR:HA	1.66	0.47
1:K4:470:LEU:HD23	1:K4:525:VAL:HG21	1.97	0.47
1:K5:107:GLY:HA3	1:K5:110:TYR:HE2	1.80	0.47
1:K6:202:GLU:OE1	1:K6:203:ALA:N	2.48	0.47
1:K9:11:LYS:HG2	1:K9:13:THR:HG23	1.96	0.47
1:L0:470:LEU:HD12	1:L0:470:LEU:HA	1.73	0.47
1:L0:614:THR:C	1:L0:616:SER:H	2.23	0.47
1:L3:429:TRP:HZ3	1:L3:450:ILE:HD11	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:62:ALA:O	1:L4:66:MET:HB2	2.15	0.47
1:L8:137:ASP:N	1:L8:137:ASP:OD1	2.48	0.47
1:LQ:44:VAL:HG13	1:LQ:49:ASP:HB2	1.97	0.47
1:LS:504:LYS:HG2	1:LS:505:LEU:N	2.30	0.47
1:LU:176:SER:O	1:LU:176:SER:OG	2.33	0.47
1:LV:157:VAL:HG23	1:LV:159:GLU:H	1.80	0.47
1:LY:617:VAL:HG22	1:LY:622:GLU:HB2	1.97	0.47
1:LZ:620:ARG:HB2	1:LZ:622:GLU:HG3	1.97	0.47
1:La:198:ILE:HG23	1:La:324:PHE:HE2	1.80	0.47
1:Ld:220:PRO:HD2	1:Ld:338:LEU:HD11	1.97	0.47
1:Ld:654:LEU:HA	1:Ld:654:LEU:HD23	1.62	0.47
1:Le:94:PRO:HD3	1:Le:222:VAL:O	2.15	0.47
1:Le:538:ASP:OD1	1:Le:538:ASP:N	2.47	0.47
1:Lv:558:ASN:O	1:Lv:562:THR:OG1	2.32	0.47
1:Lw:494:TYR:CE1	1:Lx:569:LYS:HG3	2.50	0.47
1:Lx:46:ASN:OD1	1:Lx:47:GLU:N	2.48	0.47
1:Lx:572:LEU:O	1:Lx:573:PHE:C	2.57	0.47
1:Lz:444:SER:OG	1:Lz:543:SER:OG	2.14	0.47
1:M0:480:ARG:O	1:M0:484:VAL:HG12	2.15	0.47
1:M1:137:ASP:OD1	1:M1:137:ASP:N	2.35	0.47
1:M2:35:TRP:O	1:M2:54:PHE:HA	2.15	0.47
1:M3:456:TYR:HB3	1:M3:503:ILE:HG23	1.96	0.47
1:M3:505:LEU:HD21	1:M3:525:VAL:HG12	1.96	0.47
1:M7:485:SER:OG	1:M7:486:GLN:N	2.48	0.47
1:M8:488:TRP:HB3	1:M8:556:LEU:HD12	1.96	0.47
1:M9:91:ASN:HD21	1:M9:195:LEU:HG	1.79	0.47
1:MR:209:ASP:OD1	1:MR:209:ASP:N	2.47	0.47
1:MU:121:VAL:HG13	1:MU:166:ASN:HB3	1.96	0.47
1:MV:269:PHE:CE2	1:MV:280:ALA:HB1	2.50	0.47
1:MW:468:VAL:HG12	1:MW:469:PRO:HD2	1.97	0.47
1:MY:378:CYS:SG	1:MY:469:PRO:HB3	2.55	0.47
1:MY:642:PHE:CE1	1:MZ:561:LYS:HG2	2.50	0.47
1:MZ:505:LEU:HD22	1:MZ:533:TYR:HD2	1.80	0.47
1:Mb:296:SER:O	1:Mb:311:ILE:HG13	2.15	0.47
1:Mv:346:SER:O	1:Mv:350:VAL:HG23	2.15	0.47
1:Mw:605:ARG:HB3	1:Mw:605:ARG:NH1	2.30	0.47
1:Mz:526:THR:OG1	1:Mz:527:GLY:N	2.43	0.47
1:NV:109:ASN:HA	1:NV:137:ASP:HB2	1.96	0.47
1:NV:441:PHE:CZ	1:NV:443:ILE:HD11	2.50	0.47
1:NW:251:LEU:HD23	1:NW:262:ALA:HA	1.97	0.47
1:NW:617:VAL:HG22	1:NW:622:GLU:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nd:278:GLN:HG2	1:Nd:296:SER:HB3	1.96	0.47
1:Nd:451:ASP:OD1	1:Nd:452:GLY:N	2.43	0.47
1:Ne:392:HIS:O	1:Ne:395:SER:OG	2.22	0.47
1:Nf:110:TYR:H	1:Nf:138:GLY:HA3	1.80	0.47
1:Ng:134:VAL:HG12	1:Ng:140:ILE:HG22	1.96	0.47
1:Ni:237:GLU:OE1	1:Ni:284:ARG:NH1	2.44	0.47
1:Nw:572:LEU:O	1:Nw:573:PHE:C	2.57	0.47
1:Nx:455:LYS:NZ	1:Nx:473:ASP:OD2	2.38	0.47
1:Nz:414:VAL:HG23	1:Nz:422:ALA:HB1	1.97	0.47
2:OF:80:ASP:O	2:OF:84:LYS:HG3	2.15	0.47
2:Oh:104:PRO:HB3	2:Oh:108:LYS:HE3	1.97	0.47
2:Ol:14:ASP:O	2:PG:77:GLU:HB2	2.15	0.47
2:Ol:55:ASN:OD1	2:PH:19:ASN:ND2	2.48	0.47
2:Oo:107:TYR:O	2:Oo:133:TRP:HB3	2.15	0.47
2:Os:43:ALA:O	2:Os:162:TRP:NE1	2.47	0.47
2:Pi:140:LEU:HA	2:Pi:140:LEU:HD12	1.69	0.47
2:Pk:25:ILE:C	2:Pk:27:TYR:H	2.22	0.47
2:Pl:38:ALA:HB3	2:Pl:72:THR:HG23	1.97	0.47
2:RE:82:ARG:O	2:RE:86:VAL:HG13	2.15	0.47
2:RI:21:PHE:HZ	2:RI:38:ALA:HA	1.79	0.47
2:RJ:58:ILE:HD12	2:RK:6:VAL:HG21	1.97	0.47
2:RO:17:ARG:HG3	2:RO:20:LEU:HD12	1.97	0.47
2:Rn:129:ILE:HG21	2:Rn:132:LEU:HD13	1.96	0.47
2:Ro:82:ARG:HH12	2:Ro:138:GLY:HA2	1.78	0.47
1:K2:347:ASN:HA	1:K2:350:VAL:HG23	1.97	0.46
1:K7:494:TYR:HE2	1:K7:528:THR:HG21	1.80	0.46
1:L0:95:ILE:HD13	1:L0:213:ASN:HB3	1.97	0.46
1:L0:98:ASN:O	1:L0:188:ILE:HG13	2.15	0.46
1:L3:269:PHE:CZ	1:L3:292:SER:HB2	2.50	0.46
1:L5:642:PHE:HE1	1:L6:564:ILE:HD11	1.80	0.46
1:LQ:76:ASN:O	1:LQ:76:ASN:ND2	2.48	0.46
1:LQ:134:VAL:HG12	1:LQ:140:ILE:HG22	1.97	0.46
1:LS:521:ALA:HB1	1:LS:541:ALA:HA	1.97	0.46
1:LZ:62:ALA:O	1:LZ:66:MET:HG2	2.15	0.46
1:LZ:572:LEU:O	1:LZ:573:PHE:C	2.58	0.46
1:Lb:571:ARG:NH2	1:Lb:587:GLU:OE1	2.34	0.46
1:Lc:441:PHE:CZ	1:Lc:443:ILE:HD11	2.50	0.46
1:Ld:453:ASN:HD21	1:Ld:525:VAL:HB	1.80	0.46
1:Ld:526:THR:OG1	1:Le:366:GLU:OE2	2.19	0.46
1:Lv:39:PHE:HB3	1:Lv:361:PHE:CE2	2.50	0.46
1:Lw:110:TYR:CE1	1:Lw:177:GLY:HA3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M0:101:TYR:OH	1:M0:216:LYS:O	2.31	0.46
1:M5:409:PRO:HB3	1:M5:426:LEU:HD21	1.97	0.46
1:M7:411:ARG:HD3	1:M7:415:VAL:HG11	1.97	0.46
1:M9:202:GLU:OE1	1:M9:203:ALA:N	2.48	0.46
1:MR:253:PRO:HG2	1:MR:255:TYR:HE1	1.79	0.46
1:Mb:332:GLU:H	1:Mb:332:GLU:CD	2.22	0.46
1:Me:46:ASN:OD1	1:Me:47:GLU:N	2.48	0.46
1:Mw:455:LYS:HB2	1:Mw:470:LEU:HD13	1.97	0.46
1:Mx:220:PRO:HG2	1:Mx:338:LEU:HD11	1.97	0.46
1:Mx:560:LEU:HD22	1:Mx:629:ILE:HD13	1.96	0.46
1:Mz:256:PRO:HG2	1:Mz:339:THR:H	1.80	0.46
1:Mz:456:TYR:CZ	1:Mz:465:ASN:HB3	2.50	0.46
1:NW:571:ARG:HD2	1:NW:584:PHE:HB2	1.97	0.46
1:NX:453:ASN:OD1	1:NX:505:LEU:HG	2.15	0.46
1:Na:209:ASP:N	1:Na:209:ASP:OD1	2.46	0.46
1:Nb:378:CYS:HB2	1:Nb:410:PRO:HA	1.98	0.46
1:Nd:95:ILE:HD13	1:Nd:213:ASN:HB2	1.97	0.46
1:Nd:614:THR:C	1:Nd:616:SER:H	2.23	0.46
1:Ne:44:VAL:HG11	1:Ne:50:LEU:HB2	1.97	0.46
1:Nf:193:ILE:HG21	1:Nf:223:VAL:HG11	1.98	0.46
1:Nh:310:TYR:CE2	1:Nh:312:ASP:HB2	2.50	0.46
1:Nw:28:ALA:HB2	1:Nw:370:VAL:HG21	1.97	0.46
2:OI:133:TRP:CH2	2:Rn:61:ALA:HA	2.49	0.46
2:OJ:49:ILE:O	2:OJ:49:ILE:HG12	2.15	0.46
2:OO:142:LEU:HD23	2:Rt:21:PHE:CG	2.50	0.46
2:Oj:57:LYS:HE2	2:Oj:57:LYS:HB3	1.69	0.46
2:Om:62:GLY:O	2:On:118:ARG:NH2	2.48	0.46
2:On:25:ILE:C	2:On:27:TYR:H	2.22	0.46
2:Os:17:ARG:HH11	2:Os:118:ARG:HD3	1.79	0.46
2:PF:9:ALA:O	2:Pk:35:GLN:NE2	2.44	0.46
2:PF:54:MET:HE1	2:Pl:116:TYR:CD2	2.50	0.46
2:PM:89:GLN:NE2	2:PM:135:THR:O	2.48	0.46
2:RE:69:TRP:CE3	2:RE:157:LEU:HD13	2.51	0.46
2:RH:140:LEU:HD13	2:RH:153:PHE:HB3	1.97	0.46
2:RO:56:ARG:HB3	2:RO:56:ARG:HH11	1.79	0.46
2:RR:137:VAL:HA	2:RR:155:VAL:HG22	1.96	0.46
2:Rl:82:ARG:NH1	2:Rl:138:GLY:HA2	2.30	0.46
2:Ro:1:MET:HB2	2:Ro:1:MET:HE3	1.66	0.46
2:Ro:38:ALA:HB3	2:Ro:72:THR:HG23	1.97	0.46
1:K0:110:TYR:CD1	1:K0:177:GLY:HA3	2.50	0.46
1:K0:572:LEU:O	1:K0:573:PHE:C	2.57	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K6:315:PHE:CE2	1:K6:325:ALA:HB3	2.50	0.46
1:K6:488:TRP:HB3	1:K6:556:LEU:HB2	1.96	0.46
1:K6:572:LEU:O	1:K6:573:PHE:C	2.57	0.46
1:L1:33:PHE:HA	1:L1:61:THR:HG23	1.97	0.46
1:L4:225:LEU:HD13	1:L4:324:PHE:HB2	1.96	0.46
1:L6:66:MET:HG2	1:L6:468:VAL:HG21	1.97	0.46
1:L6:490:SER:O	1:L6:496:ARG:NH1	2.48	0.46
1:L7:402:ASP:O	1:L7:558:ASN:ND2	2.48	0.46
1:L8:306:ASP:N	1:L8:306:ASP:OD1	2.46	0.46
1:L8:490:SER:OG	1:L8:538:ASP:OD2	2.22	0.46
1:LQ:33:PHE:HA	1:LQ:61:THR:HG23	1.96	0.46
1:LU:32:LYS:HE2	1:LU:350:VAL:HB	1.97	0.46
1:LU:229:GLU:OE2	1:LU:345:SER:OG	2.30	0.46
1:LU:539:LYS:HE3	1:LU:550:ARG:NH2	2.30	0.46
1:LX:614:THR:C	1:LX:616:SER:H	2.24	0.46
1:LY:31:GLY:HA3	1:LY:64:TYR:CD1	2.51	0.46
1:Lc:28:ALA:HB2	1:Lc:370:VAL:HG21	1.97	0.46
1:Lc:601:ILE:HG21	1:Lc:629:ILE:HB	1.97	0.46
1:Le:414:VAL:HG23	1:Le:422:ALA:HB1	1.98	0.46
1:Le:470:LEU:HD23	1:Le:525:VAL:HG21	1.97	0.46
1:Lw:451:ASP:OD2	1:Lw:470:LEU:HB3	2.15	0.46
1:Lz:315:PHE:CE2	1:Lz:325:ALA:HB3	2.51	0.46
1:Lz:331:PRO:O	1:Lz:333:GLY:N	2.46	0.46
1:Lz:571:ARG:HH11	1:Lz:584:PHE:HD1	1.63	0.46
1:M3:607:VAL:HG12	1:M3:612:ASN:HD21	1.79	0.46
1:M4:198:ILE:HD11	1:M4:225:LEU:HD11	1.96	0.46
1:M5:464:VAL:HG12	1:M6:313:ASP:HB3	1.98	0.46
1:M6:94:PRO:HD3	1:M6:222:VAL:O	2.16	0.46
1:M6:105:THR:HB	1:M6:181:VAL:H	1.80	0.46
1:M7:459:ASP:OD2	1:M7:466:ARG:NH1	2.49	0.46
1:M9:34:GLN:O	1:M9:82:ARG:NH2	2.49	0.46
1:MQ:222:VAL:HG13	1:MQ:325:ALA:HB2	1.96	0.46
1:MS:166:ASN:N	1:MS:166:ASN:OD1	2.47	0.46
1:MS:430:ARG:HH21	1:MS:541:ALA:HB1	1.80	0.46
1:MU:35:TRP:O	1:MU:54:PHE:HA	2.15	0.46
1:MU:116:ILE:N	1:MU:129:GLY:O	2.48	0.46
1:MV:246:LYS:HB2	1:MV:250:ALA:HB2	1.96	0.46
1:MW:28:ALA:HB2	1:MW:370:VAL:HG21	1.98	0.46
1:MY:484:VAL:HG13	1:MY:485:SER:H	1.79	0.46
1:Mc:118:VAL:HG22	1:Mc:169:ALA:HB2	1.95	0.46
1:Md:176:SER:O	1:Md:176:SER:OG	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mx:49:ASP:N	1:Mx:49:ASP:OD1	2.48	0.46
1:Mz:135:ASP:OD1	1:Mz:136:ALA:N	2.48	0.46
1:Mz:494:TYR:HE2	1:Mz:528:THR:HG21	1.80	0.46
1:NV:400:ARG:HD3	1:NV:403:CYS:SG	2.54	0.46
1:NV:494:TYR:OH	1:NW:569:LYS:NZ	2.48	0.46
1:NW:351:THR:HG23	1:NW:354:ASP:H	1.80	0.46
1:NZ:510:ARG:HG2	1:NZ:511:GLN:H	1.81	0.46
1:Na:35:TRP:O	1:Na:54:PHE:HA	2.14	0.46
1:Nc:106:PRO:HB2	1:Nc:139:LYS:HD2	1.97	0.46
1:Nf:295:LEU:HB3	1:Nf:311:ILE:HG12	1.97	0.46
1:Ng:510:ARG:HG2	1:Ng:511:GLN:H	1.80	0.46
1:Nh:57:PRO:HB3	1:Nh:65:PHE:HB3	1.97	0.46
1:Nx:23:SER:O	1:Nx:76:ASN:HB2	2.15	0.46
1:Nz:315:PHE:CE2	1:Nz:325:ALA:HB3	2.50	0.46
1:Nz:459:ASP:HB3	1:Nz:464:VAL:O	2.15	0.46
2:OF:56:ARG:HB3	2:OF:56:ARG:NH1	2.29	0.46
2:OK:57:LYS:HB3	2:OK:57:LYS:HE2	1.61	0.46
2:OL:54:MET:HE3	2:Or:20:LEU:HA	1.97	0.46
2:Oi:96:GLY:O	2:RS:56:ARG:NH2	2.41	0.46
2:Or:3:VAL:N	2:Pq:97:ASN:O	2.45	0.46
2:Or:91:ILE:HG22	2:Or:107:TYR:HB3	1.97	0.46
2:PH:41:LEU:HG	2:PH:127:ILE:HD13	1.96	0.46
2:PL:125:LYS:HD3	2:PL:126:GLU:H	1.81	0.46
2:Pn:25:ILE:C	2:Pn:27:TYR:H	2.22	0.46
2:Pq:134:PRO:HA	2:Pq:157:LEU:HA	1.97	0.46
2:Pr:61:ALA:HA	2:RM:133:TRP:CH2	2.50	0.46
2:Pt:2:PHE:HB3	2:Rs:97:ASN:OD1	2.15	0.46
2:RN:80:ASP:O	2:RN:84:LYS:HG3	2.16	0.46
2:RR:140:LEU:HD12	2:RR:140:LEU:HA	1.67	0.46
2:Rk:4:ASP:OD1	2:Rk:4:ASP:N	2.42	0.46
2:Rs:140:LEU:HD12	2:Rs:140:LEU:HA	1.66	0.46
2:Rt:132:LEU:HD13	2:Rt:159:LEU:HB3	1.96	0.46
1:K1:121:VAL:HG13	1:K1:166:ASN:HB3	1.97	0.46
1:K4:527:GLY:HA2	1:K4:533:TYR:HD2	1.81	0.46
1:K6:76:ASN:ND2	1:K6:76:ASN:O	2.48	0.46
1:K6:118:VAL:HG22	1:K6:169:ALA:HB2	1.96	0.46
1:K6:269:PHE:HE2	1:K6:282:ILE:HG12	1.80	0.46
1:K6:642:PHE:CZ	1:K7:564:ILE:HD11	2.51	0.46
1:K9:549:ASP:OD2	1:Ld:271:TYR:OH	2.28	0.46
1:L1:235:GLU:OE2	1:L1:261:ARG:NH2	2.32	0.46
1:L1:403:CYS:O	1:L1:558:ASN:ND2	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L1:595:ILE:HD13	1:L1:595:ILE:HA	1.78	0.46
1:L3:159:GLU:HG3	1:L3:167:TRP:HE1	1.79	0.46
1:L3:494:TYR:HE2	1:L3:528:THR:HG21	1.79	0.46
1:L4:450:ILE:HG22	1:L4:541:ALA:HB2	1.96	0.46
1:L5:57:PRO:HG2	1:L5:459:ASP:OD2	2.16	0.46
1:L6:590:GLN:NE2	2:Op:108:LYS:O	2.44	0.46
1:LU:415:VAL:HG13	1:LU:416:GLY:H	1.79	0.46
1:LU:444:SER:OG	1:LU:543:SER:OG	2.25	0.46
1:LW:43:GLN:HE21	1:LW:45:THR:HG22	1.80	0.46
1:LX:378:CYS:SG	1:LX:454:TYR:OH	2.54	0.46
1:LX:510:ARG:HG2	1:LX:511:GLN:H	1.79	0.46
1:LY:609:ASP:OD1	1:LY:611:THR:OG1	2.30	0.46
1:LZ:346:SER:O	1:LZ:350:VAL:HG23	2.15	0.46
1:LZ:406:LEU:HD13	1:LZ:475:ALA:HB2	1.97	0.46
1:La:378:CYS:HB3	1:La:390:GLN:HE22	1.80	0.46
1:La:568:SER:HA	1:La:571:ARG:HG2	1.97	0.46
1:Lb:332:GLU:CD	1:Lb:332:GLU:H	2.23	0.46
1:Lb:609:ASP:OD1	1:Lb:611:THR:OG1	2.27	0.46
1:Lc:572:LEU:O	1:Lc:573:PHE:C	2.58	0.46
1:Ld:365:ARG:HA	1:Ld:400:ARG:NH2	2.30	0.46
1:Ld:518:TYR:CE2	1:Ld:539:LYS:HE3	2.50	0.46
1:Le:379:ALA:HB2	1:Le:454:TYR:HE2	1.79	0.46
1:Le:601:ILE:HD12	1:Le:604:TYR:HB3	1.98	0.46
1:Lw:100:GLU:OE2	1:Lw:186:LYS:HG3	2.15	0.46
1:Lx:95:ILE:HD13	1:Lx:213:ASN:HB3	1.97	0.46
1:Lx:240:SER:OG	1:Lx:243:ASP:OD1	2.33	0.46
1:M8:105:THR:HB	1:M8:181:VAL:HG23	1.98	0.46
1:M9:91:ASN:N	1:M9:91:ASN:OD1	2.48	0.46
1:MQ:134:VAL:HA	1:MQ:140:ILE:HA	1.97	0.46
1:MQ:451:ASP:CG	1:MQ:452:GLY:H	2.23	0.46
1:MQ:655:THR:HB	1:Mv:19:VAL:HG21	1.96	0.46
1:MS:510:ARG:HG2	1:MS:511:GLN:H	1.80	0.46
1:MU:109:ASN:N	1:MU:109:ASN:OD1	2.49	0.46
1:MU:118:VAL:HG22	1:MU:169:ALA:HB2	1.97	0.46
1:MU:360:ASP:OD1	1:MU:392:HIS:NE2	2.38	0.46
1:MV:302:LYS:HA	1:MV:302:LYS:HD3	1.72	0.46
1:MW:31:GLY:HA3	1:MW:64:TYR:CD1	2.50	0.46
1:MW:100:GLU:OE2	1:MW:186:LYS:NZ	2.36	0.46
1:MY:31:GLY:HA3	1:MY:64:TYR:CD2	2.50	0.46
1:Md:161:PRO:O	1:Md:186:LYS:HB2	2.15	0.46
1:Me:114:ASP:OD1	1:Me:114:ASP:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Me:346:SER:O	1:Me:350:VAL:HG23	2.14	0.46
1:Mv:418:PRO:HD2	1:Mv:421:ARG:NH1	2.30	0.46
1:Mw:134:VAL:HA	1:Mw:140:ILE:HA	1.96	0.46
1:Mw:455:LYS:HZ3	1:Mw:473:ASP:CG	2.23	0.46
1:NX:229:GLU:H	1:NX:229:GLU:HG2	1.54	0.46
1:Nd:332:GLU:OE1	1:Nd:332:GLU:N	2.39	0.46
1:Nd:383:LEU:HD11	1:Nd:436:TYR:CE1	2.50	0.46
1:Ne:3:LEU:HD11	1:Ne:9:GLU:HB2	1.97	0.46
1:Ng:572:LEU:O	1:Ng:573:PHE:C	2.58	0.46
1:Nj:487:THR:HG21	1:Nj:559:MET:HE3	1.97	0.46
1:Nv:346:SER:O	1:Nv:350:VAL:HG23	2.15	0.46
1:Nz:100:GLU:HG2	1:Nz:186:LYS:O	2.16	0.46
2:OF:2:PHE:HD2	2:PE:97:ASN:HB3	1.81	0.46
2:PG:49:ILE:HD11	2:PG:60:VAL:HG12	1.97	0.46
2:Ph:116:TYR:CE1	2:Ph:123:VAL:HG22	2.50	0.46
2:Pi:80:ASP:O	2:Pi:84:LYS:HG3	2.15	0.46
2:Pl:125:LYS:HG2	2:RG:79:HIS:ND1	2.31	0.46
2:Pm:56:ARG:HB3	2:Pm:56:ARG:NH1	2.31	0.46
2:Pt:41:LEU:HG	2:Pt:127:ILE:HD13	1.98	0.46
2:RD:39:THR:HG22	2:RD:71:VAL:HG22	1.97	0.46
2:RF:73:VAL:HG12	2:RF:74:MET:O	2.16	0.46
2:RM:140:LEU:HD13	2:RM:153:PHE:HB3	1.98	0.46
2:Rs:70:THR:HG22	2:Rs:156:THR:HG22	1.97	0.46
1:K1:406:LEU:HD22	1:K1:474:ILE:HG13	1.96	0.46
1:K3:494:TYR:CE2	1:K4:569:LYS:HD3	2.50	0.46
1:K4:350:VAL:HG13	1:K4:354:ASP:HB2	1.97	0.46
1:K7:444:SER:OG	1:K7:543:SER:OG	2.21	0.46
1:K9:654:LEU:HD23	1:K9:654:LEU:HA	1.62	0.46
1:L1:40:GLN:H	1:L1:81:VAL:HG23	1.79	0.46
1:L1:432:ALA:HB2	1:L1:442:ASN:HB2	1.96	0.46
1:L2:256:PRO:HG2	1:L2:339:THR:HB	1.96	0.46
1:L6:362:PHE:HD1	1:L6:368:VAL:HG11	1.81	0.46
1:L6:538:ASP:OD1	1:L6:538:ASP:N	2.49	0.46
1:L7:163:LEU:HB2	1:L7:186:LYS:HA	1.96	0.46
1:L8:94:PRO:HD3	1:L8:222:VAL:O	2.15	0.46
1:LR:10:LEU:HD13	1:Nx:561:LYS:HD2	1.96	0.46
1:LS:432:ALA:HB1	1:LS:440:ASN:HD22	1.81	0.46
1:LS:505:LEU:HD21	1:LS:525:VAL:HG12	1.97	0.46
1:LV:269:PHE:CZ	1:LV:292:SER:HB2	2.51	0.46
1:LY:83:ALA:HB2	1:LY:358:ALA:HB2	1.97	0.46
1:LY:650:ASP:C	1:LY:652:ASP:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lb:31:GLY:HA3	1:Lb:64:TYR:CD1	2.51	0.46
1:Lb:609:ASP:O	1:Lb:613:ASN:ND2	2.47	0.46
1:Lv:521:ALA:HB1	1:Lv:541:ALA:HA	1.97	0.46
1:Lx:35:TRP:CE3	1:Lx:35:TRP:HA	2.51	0.46
1:M1:480:ARG:O	1:M1:482:ASP:N	2.49	0.46
1:M3:351:THR:OG1	1:M3:352:ALA:N	2.48	0.46
1:M4:195:LEU:HD23	1:M4:195:LEU:H	1.80	0.46
1:MQ:311:ILE:HB	1:MQ:327:ALA:HB2	1.97	0.46
1:MU:2:THR:OG1	1:MU:3:LEU:N	2.38	0.46
1:MV:459:ASP:OD2	1:MV:466:ARG:NH1	2.48	0.46
1:MV:505:LEU:HD22	1:MV:533:TYR:HD2	1.80	0.46
1:MX:550:ARG:HB3	1:MX:553:VAL:HG12	1.97	0.46
1:MZ:451:ASP:OD1	1:MZ:474:ILE:HG21	2.15	0.46
1:Ma:159:GLU:HB3	1:Ma:163:LEU:HA	1.97	0.46
1:Me:383:LEU:HD13	1:Me:439:ASN:HB2	1.97	0.46
1:NV:220:PRO:HG2	1:NV:338:LEU:HD11	1.98	0.46
1:Na:101:TYR:OH	1:Na:216:LYS:O	2.34	0.46
1:Nb:549:ASP:O	1:Nb:550:ARG:NE	2.48	0.46
1:Nd:398:ASP:O	1:Nd:401:GLN:HG3	2.16	0.46
1:Nd:572:LEU:O	1:Nd:573:PHE:C	2.58	0.46
1:Ne:576:ASN:HB3	1:Ne:618:ILE:HG23	1.97	0.46
1:Ng:495:ASN:OD1	1:Ng:495:ASN:N	2.37	0.46
1:Nv:97:GLY:O	1:Nv:147:THR:OG1	2.29	0.46
2:OD:57:LYS:HB3	2:OD:57:LYS:HE2	1.67	0.46
2:OJ:124:THR:HB	2:Oo:78:ALA:HA	1.98	0.46
2:Oj:39:THR:HG22	2:Oj:71:VAL:HG22	1.96	0.46
2:Or:88:TRP:CE2	2:Or:134:PRO:HD3	2.50	0.46
2:PC:82:ARG:O	2:PC:86:VAL:HG13	2.16	0.46
2:PE:25:ILE:C	2:PE:27:TYR:H	2.23	0.46
2:PM:82:ARG:O	2:PM:86:VAL:HG13	2.16	0.46
2:Pk:88:TRP:CE2	2:Pk:134:PRO:HD3	2.51	0.46
2:Pt:120:ALA:HB2	2:RN:99:ILE:O	2.15	0.46
2:RN:73:VAL:HG12	2:RN:74:MET:O	2.15	0.46
2:Rp:143:ASP:OD1	2:Rp:144:TRP:N	2.48	0.46
2:Rr:98:GLU:OE1	2:Rr:98:GLU:N	2.49	0.46
1:K1:332:GLU:OE1	1:K1:332:GLU:N	2.45	0.46
1:K1:569:LYS:HE2	1:Nz:494:TYR:CZ	2.50	0.46
1:K5:35:TRP:O	1:K5:54:PHE:HA	2.15	0.46
1:K7:2:THR:OG1	1:K7:3:LEU:N	2.41	0.46
1:K8:74:TYR:CD1	1:K8:476:GLY:HA3	2.50	0.46
1:K8:467:TRP:CZ3	1:K9:199:GLU:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K8:561:LYS:NZ	1:Lb:12:GLU:OE2	2.46	0.46
1:L5:450:ILE:HD13	1:L5:522:ILE:HG12	1.97	0.46
1:L8:31:GLY:HA3	1:L8:64:TYR:CD1	2.50	0.46
1:L9:365:ARG:HA	1:L9:400:ARG:NH2	2.31	0.46
1:LQ:406:LEU:HB3	1:LQ:474:ILE:HD11	1.97	0.46
1:LR:240:SER:OG	1:LR:243:ASP:OD1	2.33	0.46
1:LV:362:PHE:HD1	1:LV:368:VAL:HG11	1.81	0.46
1:LW:103:ILE:HD13	1:LW:182:ILE:HG22	1.98	0.46
1:LW:444:SER:OG	1:LW:543:SER:OG	2.18	0.46
1:LY:480:ARG:C	1:LY:482:ASP:H	2.24	0.46
1:LZ:451:ASP:OD1	1:LZ:474:ILE:HD13	2.15	0.46
1:La:252:LEU:HD11	1:La:263:SER:HB2	1.97	0.46
1:Lc:629:ILE:O	1:Lc:629:ILE:HG13	2.13	0.46
1:Ld:494:TYR:CE2	1:Le:569:LYS:HD3	2.50	0.46
1:Ld:614:THR:C	1:Ld:616:SER:H	2.24	0.46
1:Lv:244:TYR:CZ	1:Lv:266:LYS:HD2	2.50	0.46
1:Lv:468:VAL:HG12	1:Lv:469:PRO:HD2	1.98	0.46
1:M1:66:MET:HG2	1:M1:468:VAL:HG21	1.96	0.46
1:M1:67:SER:OG	1:M1:472:ALA:HB2	2.15	0.46
1:M2:49:ASP:OD1	1:M2:49:ASP:N	2.44	0.46
1:M5:41:ILE:HD11	1:M5:361:PHE:HB3	1.98	0.46
1:M5:209:ASP:OD1	1:M5:209:ASP:N	2.47	0.46
1:M6:211:GLN:OE1	1:M6:329:ASN:ND2	2.44	0.46
1:M7:213:ASN:OD1	1:M7:213:ASN:N	2.48	0.46
1:M7:642:PHE:CE1	1:M8:561:LYS:HG2	2.50	0.46
1:M8:110:TYR:CZ	1:M8:171:ILE:HD12	2.51	0.46
1:MQ:91:ASN:OD1	1:MQ:91:ASN:N	2.49	0.46
1:MQ:427:VAL:O	1:MQ:431:THR:OG1	2.27	0.46
1:MR:383:LEU:HD11	1:MR:436:TYR:CE2	2.50	0.46
1:MS:147:THR:O	1:MS:151:ILE:HG23	2.16	0.46
1:MY:54:PHE:HE2	1:MY:82:ARG:HB2	1.81	0.46
1:MY:479:ALA:O	1:MY:482:ASP:HB3	2.15	0.46
1:MY:485:SER:OG	1:MY:486:GLN:N	2.48	0.46
1:MZ:110:TYR:CD1	1:MZ:177:GLY:HA3	2.50	0.46
1:Ma:456:TYR:CE1	1:Ma:465:ASN:HB3	2.51	0.46
1:Mc:44:VAL:HG11	1:Mc:50:LEU:HB2	1.96	0.46
1:Mc:94:PRO:HD3	1:Mc:222:VAL:O	2.15	0.46
1:Mc:560:LEU:HD22	1:Mc:629:ILE:HD13	1.97	0.46
1:Md:620:ARG:HB2	1:Md:622:GLU:HG3	1.97	0.46
1:Me:505:LEU:HD12	1:Me:505:LEU:HA	1.77	0.46
1:Mw:39:PHE:HB3	1:Mw:361:PHE:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mw:161:PRO:O	1:Mw:186:LYS:HB2	2.15	0.46
1:Mw:559:MET:HG3	1:Mw:560:LEU:N	2.30	0.46
1:Mw:572:LEU:O	1:Mw:573:PHE:C	2.58	0.46
1:Mz:614:THR:C	1:Mz:616:SER:H	2.23	0.46
1:NV:564:ILE:O	1:NV:568:SER:OG	2.32	0.46
1:Na:414:VAL:HG23	1:Na:422:ALA:HB1	1.97	0.46
1:Nb:91:ASN:HB2	1:Nb:193:ILE:HG23	1.97	0.46
1:Nb:278:GLN:HG2	1:Nb:296:SER:HB2	1.97	0.46
1:Ng:26:THR:HB	1:Ng:77:ASP:HB3	1.97	0.46
1:Ng:642:PHE:CZ	1:Nh:564:ILE:HD11	2.51	0.46
1:Nj:471:ALA:HA	1:Nj:474:ILE:HG12	1.97	0.46
1:Nj:485:SER:OG	1:Nj:486:GLN:N	2.48	0.46
1:Nw:240:SER:HA	1:Nw:279:TYR:HD1	1.81	0.46
1:Nx:451:ASP:CG	1:Nx:452:GLY:H	2.24	0.46
2:OI:150:ILE:HG23	2:Rm:49:ILE:HD11	1.98	0.46
2:ON:1:MET:HE3	2:ON:1:MET:HB2	1.54	0.46
2:OO:114:ARG:HG2	2:OO:126:GLU:HG3	1.98	0.46
2:Oh:140:LEU:HD13	2:Oh:153:PHE:HB3	1.97	0.46
2:Ol:125:LYS:HG2	2:PG:79:HIS:ND1	2.30	0.46
2:Or:25:ILE:HG13	2:Or:32:PHE:CE2	2.50	0.46
2:PE:136:ASN:O	2:PE:136:ASN:ND2	2.49	0.46
2:PF:131:GLY:O	2:PF:159:LEU:HA	2.16	0.46
2:PG:56:ARG:HB3	2:PG:56:ARG:HH11	1.81	0.46
2:PO:143:ASP:OD1	2:PO:144:TRP:N	2.49	0.46
2:Ph:82:ARG:NH1	2:Ph:140:LEU:HD22	2.30	0.46
2:Pi:49:ILE:HG12	2:Pi:60:VAL:O	2.16	0.46
2:Pk:154:GLU:OE1	2:Pk:154:GLU:N	2.48	0.46
2:Pp:114:ARG:HG2	2:Pp:126:GLU:HG3	1.98	0.46
2:Pt:41:LEU:HB2	2:RO:140:LEU:HB3	1.97	0.46
2:RF:74:MET:HG2	2:RF:150:ILE:HD11	1.97	0.46
2:RJ:10:PHE:HD2	2:RJ:13:GLY:HA2	1.80	0.46
2:RS:58:ILE:HD12	2:RT:6:VAL:HG21	1.96	0.46
2:Ro:25:ILE:C	2:Ro:27:TYR:H	2.23	0.46
2:Rq:56:ARG:HB3	2:Rq:56:ARG:NH1	2.30	0.46
2:Rt:23:VAL:HG11	2:Rt:39:THR:HG21	1.98	0.46
1:K0:379:ALA:HA	1:K0:411:ARG:HB2	1.98	0.46
1:K1:346:SER:O	1:K1:350:VAL:HG23	2.15	0.46
1:K1:432:ALA:HB2	1:K1:442:ASN:HB2	1.98	0.46
1:K2:412:GLU:OE1	1:K2:412:GLU:N	2.47	0.46
1:K3:569:LYS:HB3	1:K3:569:LYS:HE2	1.70	0.46
1:K8:379:ALA:HA	1:K8:411:ARG:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K9:365:ARG:HA	1:K9:400:ARG:NH2	2.31	0.46
1:K9:617:VAL:HG22	1:K9:622:GLU:HB2	1.98	0.46
1:L0:37:PRO:HG2	1:L0:42:LYS:HD3	1.98	0.46
1:L0:119:LYS:HE3	1:L0:122:SER:HA	1.97	0.46
1:L1:612:ASN:HB3	1:L1:624:VAL:HG23	1.97	0.46
1:L2:246:LYS:HB2	1:L2:250:ALA:HB2	1.96	0.46
1:L5:453:ASN:OD1	1:L5:505:LEU:HG	2.16	0.46
1:LQ:614:THR:C	1:LQ:616:SER:H	2.23	0.46
1:LR:430:ARG:HG3	1:LR:522:ILE:HD11	1.97	0.46
1:LR:471:ALA:HA	1:LR:474:ILE:HG12	1.98	0.46
1:LU:417:ILE:HG22	1:LU:418:PRO:HD2	1.97	0.46
1:LW:244:TYR:CE2	1:LW:272:GLY:HA3	2.50	0.46
1:LW:315:PHE:CE2	1:LW:325:ALA:HB3	2.50	0.46
1:LX:246:LYS:HB2	1:LX:250:ALA:HB2	1.97	0.46
1:La:451:ASP:OD2	1:La:470:LEU:HB3	2.15	0.46
1:La:536:TYR:HD1	1:La:536:TYR:HA	1.65	0.46
1:Lb:572:LEU:O	1:Lb:573:PHE:C	2.57	0.46
1:Lv:29:LEU:O	1:Lv:80:VAL:HA	2.16	0.46
1:Lv:488:TRP:HB3	1:Lv:556:LEU:HD13	1.97	0.46
1:Lv:560:LEU:HD22	1:Lv:629:ILE:HD13	1.98	0.46
1:Lv:638:ILE:HG23	1:Lw:623:PHE:HD2	1.81	0.46
1:Lz:473:ASP:HB3	1:Lz:499:ILE:HG23	1.96	0.46
1:M0:20:VAL:HG21	1:M0:46:ASN:HD21	1.80	0.46
1:M3:16:GLN:NE2	1:M3:460:LYS:O	2.38	0.46
1:M5:453:ASN:HB2	1:M5:506:ALA:HB3	1.96	0.46
1:M6:166:ASN:OD1	1:M6:166:ASN:N	2.47	0.46
1:M9:33:PHE:O	1:M9:82:ARG:NE	2.48	0.46
1:MQ:467:TRP:HZ3	1:MR:199:GLU:HB2	1.79	0.46
1:MV:30:ALA:HB3	1:MV:359:TRP:CE2	2.50	0.46
1:MV:264:THR:OG1	1:MV:284:ARG:NH2	2.49	0.46
1:MY:11:LYS:HG2	1:MY:13:THR:HG23	1.98	0.46
1:MY:44:VAL:HG11	1:MY:50:LEU:HB2	1.97	0.46
1:MZ:601:ILE:HG22	1:MZ:629:ILE:HD12	1.98	0.46
1:Mb:116:ILE:HD12	1:Mb:171:ILE:HG12	1.97	0.46
1:Mb:209:ASP:O	1:Mb:213:ASN:ND2	2.49	0.46
1:Mc:614:THR:O	1:Mc:616:SER:N	2.48	0.46
1:Md:560:LEU:O	1:Md:564:ILE:HG12	2.16	0.46
1:Md:602:TYR:HB2	1:Md:630:GLN:HG2	1.96	0.46
1:Mv:22:ASN:OD1	1:Mv:76:ASN:ND2	2.39	0.46
1:Mv:269:PHE:CZ	1:Mv:292:SER:HB2	2.50	0.46
1:NV:617:VAL:HA	1:NV:620:ARG:HE	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nc:365:ARG:HA	1:Nc:400:ARG:NH2	2.30	0.46
1:Nc:378:CYS:HB2	1:Nc:410:PRO:HA	1.97	0.46
1:Nf:484:VAL:HG13	1:Nf:485:SER:H	1.80	0.46
1:Ni:26:THR:HA	1:Ni:77:ASP:O	2.16	0.46
1:Nv:94:PRO:HD3	1:Nv:222:VAL:O	2.16	0.46
1:Nw:368:VAL:HG12	1:Nw:370:VAL:HG22	1.97	0.46
1:Nw:427:VAL:O	1:Nw:431:THR:OG1	2.26	0.46
1:Nx:453:ASN:HB2	1:Nx:506:ALA:HB3	1.97	0.46
1:Nx:641:ASN:HB2	1:Nz:626:THR:HG23	1.98	0.46
2:OH:39:THR:HG22	2:OH:71:VAL:HG22	1.98	0.46
2:OI:37:LYS:HZ1	2:OI:74:MET:HG2	1.80	0.46
2:OJ:58:ILE:HD12	2:OK:6:VAL:HG21	1.98	0.46
2:OO:1:MET:HE3	2:OO:1:MET:HB2	1.56	0.46
2:OO:83:GLN:HA	2:OO:86:VAL:HG22	1.96	0.46
2:Oj:48:LYS:HB2	2:PE:133:TRP:CZ2	2.50	0.46
2:Oo:112:ILE:HD11	2:Oo:126:GLU:OE2	2.16	0.46
2:Oq:131:GLY:O	2:Oq:159:LEU:HA	2.16	0.46
2:PG:28:LEU:HD22	2:PG:84:LYS:HB3	1.97	0.46
2:PJ:25:ILE:C	2:PJ:27:TYR:H	2.24	0.46
2:Pp:41:LEU:HD13	2:RK:142:LEU:HD22	1.96	0.46
2:Pr:114:ARG:HB3	2:Pr:123:VAL:HG13	1.96	0.46
2:RE:120:ALA:HB2	2:RS:99:ILE:O	2.15	0.46
2:Rk:14:ASP:OD1	2:Rk:17:ARG:NH2	2.48	0.46
2:Ro:85:PHE:CD1	2:Ro:155:VAL:HG11	2.51	0.46
1:K4:559:MET:SD	1:K4:563:ASN:ND2	2.88	0.46
1:K5:296:SER:O	1:K5:311:ILE:HG13	2.15	0.46
1:K5:561:LYS:HD2	1:LY:10:LEU:HD13	1.97	0.46
1:K6:35:TRP:HB2	1:K6:230:LEU:HD12	1.97	0.46
1:K7:548:PHE:HE1	1:K7:557:PHE:CG	2.33	0.46
1:L1:33:PHE:HA	1:L1:61:THR:CG2	2.45	0.46
1:L6:35:TRP:O	1:L6:54:PHE:HA	2.15	0.46
1:L7:480:ARG:O	1:L7:482:ASP:N	2.49	0.46
1:L7:505:LEU:HD12	1:L7:505:LEU:HA	1.73	0.46
1:LQ:206:THR:HA	1:LQ:211:GLN:HE21	1.81	0.46
1:LQ:269:PHE:CE2	1:LQ:280:ALA:HB1	2.50	0.46
1:LQ:549:ASP:O	1:LQ:550:ARG:NE	2.43	0.46
1:LR:125:ILE:HG22	1:LR:149:LYS:HB2	1.98	0.46
1:LU:415:VAL:HG13	1:LU:416:GLY:N	2.31	0.46
1:LV:538:ASP:N	1:LV:538:ASP:OD1	2.47	0.46
1:LW:332:GLU:H	1:LW:332:GLU:CD	2.22	0.46
1:La:379:ALA:HB2	1:La:454:TYR:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:La:406:LEU:HD23	1:La:449:ALA:HB3	1.98	0.46
1:La:510:ARG:N	1:La:513:GLN:OE1	2.41	0.46
1:Lb:66:MET:HG2	1:Lb:468:VAL:HG21	1.98	0.46
1:Lb:510:ARG:HG2	1:Lb:511:GLN:H	1.81	0.46
1:Lc:505:LEU:HD22	1:Lc:533:TYR:CD2	2.51	0.46
1:Ld:35:TRP:O	1:Ld:54:PHE:HA	2.15	0.46
1:Ld:163:LEU:HD22	1:Ld:167:TRP:CE2	2.51	0.46
1:Ld:451:ASP:OD1	1:Ld:474:ILE:HD13	2.15	0.46
1:Le:133:GLU:HB3	1:Le:142:LYS:HB3	1.98	0.46
1:Lw:298:LYS:HB2	1:Lw:298:LYS:NZ	2.31	0.46
1:Lw:559:MET:HE2	1:Lw:559:MET:HB2	1.69	0.46
1:Lx:116:ILE:HD13	1:Lx:171:ILE:HG12	1.97	0.46
1:Lz:451:ASP:CG	1:Lz:452:GLY:H	2.24	0.46
1:M0:379:ALA:HB2	1:M0:454:TYR:HE2	1.80	0.46
1:M2:296:SER:O	1:M2:311:ILE:HG13	2.15	0.46
1:M4:118:VAL:HB	1:M4:126:GLU:HB3	1.98	0.46
1:M6:572:LEU:O	1:M6:573:PHE:C	2.58	0.46
1:M8:441:PHE:CZ	1:M8:443:ILE:HD11	2.50	0.46
1:M9:451:ASP:OD2	1:M9:470:LEU:HB3	2.15	0.46
1:MQ:200:ASN:N	1:MQ:200:ASN:OD1	2.48	0.46
1:MQ:412:GLU:HA	1:MQ:415:VAL:HG12	1.97	0.46
1:MQ:480:ARG:C	1:MQ:482:ASP:H	2.24	0.46
1:MQ:526:THR:OG1	1:MQ:527:GLY:N	2.48	0.46
1:MS:140:ILE:O	1:MS:141:LYS:NZ	2.45	0.46
1:MS:411:ARG:O	1:MS:415:VAL:HB	2.16	0.46
1:MV:400:ARG:HD3	1:MV:403:CYS:SG	2.55	0.46
1:MV:412:GLU:OE1	1:MV:412:GLU:N	2.39	0.46
1:Ma:351:THR:OG1	1:Ma:352:ALA:N	2.48	0.46
1:Mb:484:VAL:HG13	1:Mb:485:SER:H	1.81	0.46
1:Mv:32:LYS:HD3	1:Mv:64:TYR:CE2	2.51	0.46
1:Mv:110:TYR:CD1	1:Mv:177:GLY:HA3	2.51	0.46
1:Mw:494:TYR:HE2	1:Mw:528:THR:HG21	1.79	0.46
1:Mz:427:VAL:O	1:Mz:431:THR:OG1	2.28	0.46
1:NV:116:ILE:HD12	1:NV:171:ILE:HG12	1.98	0.46
1:NV:526:THR:OG1	1:NV:527:GLY:N	2.48	0.46
1:NW:375:ALA:HB1	1:NW:390:GLN:HG2	1.98	0.46
1:NW:467:TRP:CZ3	1:NX:199:GLU:HB2	2.50	0.46
1:NZ:269:PHE:CE2	1:NZ:280:ALA:HB1	2.51	0.46
1:Na:548:PHE:HA	1:Na:553:VAL:HG13	1.98	0.46
1:Nb:576:ASN:ND2	1:Nb:622:GLU:O	2.48	0.46
1:Nc:451:ASP:OD2	1:Nc:470:LEU:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nf:82:ARG:NH2	1:Nf:227:PRO:O	2.42	0.46
1:Nf:247:GLY:HA2	1:Nf:266:LYS:HG3	1.97	0.46
1:Nv:527:GLY:HA2	1:Nv:533:TYR:CD2	2.51	0.46
1:Nx:423:VAL:HG21	1:Nx:513:GLN:HB3	1.96	0.46
1:Nz:105:THR:HB	1:Nz:181:VAL:N	2.30	0.46
2:OF:25:ILE:C	2:OF:27:TYR:H	2.22	0.46
2:OH:85:PHE:CE2	2:OH:155:VAL:HG11	2.51	0.46
2:OH:125:LYS:HG2	2:Om:79:HIS:CG	2.51	0.46
2:OK:83:GLN:OE1	2:Rp:125:LYS:NZ	2.47	0.46
2:Ol:58:ILE:HD12	2:Om:6:VAL:HG21	1.97	0.46
2:Oq:97:ASN:HA	2:Rr:3:VAL:HG12	1.98	0.46
2:PE:104:PRO:HA	2:PE:107:TYR:CE2	2.51	0.46
2:Pi:103:LYS:O	2:Pi:106:GLU:HG2	2.15	0.46
2:Pm:85:PHE:CE1	2:Pm:155:VAL:HG11	2.50	0.46
2:Pn:41:LEU:HB3	2:RI:140:LEU:HB3	1.98	0.46
2:RH:41:LEU:HG	2:RH:127:ILE:HD13	1.97	0.46
2:RL:19:ASN:OD1	2:RL:19:ASN:N	2.37	0.46
2:RT:91:ILE:HG22	2:RT:107:TYR:HB3	1.97	0.46
2:Rk:53:PHE:CD1	2:Rl:6:VAL:HG13	2.51	0.46
2:Rs:136:ASN:O	2:Rs:136:ASN:ND2	2.40	0.46
1:K0:32:LYS:HG2	1:K0:350:VAL:HG21	1.98	0.46
1:K0:135:ASP:OD1	1:K0:136:ALA:N	2.47	0.46
1:K5:23:SER:O	1:K5:76:ASN:HB2	2.15	0.46
1:K6:148:ALA:O	1:K6:151:ILE:HG13	2.16	0.46
1:K9:451:ASP:OD2	1:K9:470:LEU:HB3	2.16	0.46
1:L1:564:ILE:HD11	1:Lz:642:PHE:CZ	2.51	0.46
1:L2:477:LEU:HD23	1:L2:535:LEU:HD12	1.98	0.46
1:L2:645:THR:HB	1:L2:650:ASP:OD1	2.16	0.46
1:L3:400:ARG:HH11	1:L3:400:ARG:HB3	1.81	0.46
1:L3:406:LEU:HD22	1:L3:474:ILE:HG13	1.97	0.46
1:L3:609:ASP:OD1	1:L3:611:THR:OG1	2.25	0.46
1:L4:538:ASP:N	1:L4:538:ASP:OD1	2.48	0.46
1:L4:581:ARG:HG2	1:L4:623:PHE:HE1	1.81	0.46
1:L5:378:CYS:HB2	1:L5:410:PRO:HA	1.98	0.46
1:L6:575:LEU:H	1:L6:575:LEU:HD12	1.81	0.46
1:L7:617:VAL:O	1:L7:622:GLU:HB2	2.16	0.46
1:LR:538:ASP:O	1:LR:550:ARG:HG3	2.16	0.46
1:LU:34:GLN:HG2	1:LU:230:LEU:HD12	1.97	0.46
1:LV:355:LEU:HA	1:LV:355:LEU:HD23	1.70	0.46
1:LV:569:LYS:HZ3	1:Lz:8:ILE:HD13	1.81	0.46
1:LX:76:ASN:O	1:LX:76:ASN:ND2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LY:112:VAL:HG12	1:LY:134:VAL:HG13	1.97	0.46
1:LY:521:ALA:HB1	1:LY:541:ALA:HA	1.98	0.46
1:LY:572:LEU:HD12	1:LY:572:LEU:HA	1.70	0.46
1:Ld:253:PRO:HG2	1:Ld:255:TYR:HE1	1.81	0.46
1:Ld:451:ASP:OD2	1:Ld:470:LEU:HB3	2.15	0.46
1:Lv:494:TYR:HE2	1:Lv:528:THR:HG21	1.81	0.46
1:Lv:617:VAL:HG23	1:Lv:622:GLU:HB2	1.97	0.46
1:Lx:612:ASN:HB3	1:Lx:624:VAL:HG23	1.98	0.46
1:Lz:614:THR:C	1:Lz:616:SER:H	2.24	0.46
1:M0:220:PRO:HG2	1:M0:338:LEU:HD11	1.98	0.46
1:M5:57:PRO:HG2	1:M5:459:ASP:OD2	2.16	0.46
1:M5:614:THR:O	1:M5:616:SER:N	2.45	0.46
1:M6:462:ASN:HB2	1:M6:464:VAL:HG22	1.97	0.46
1:M7:90:LYS:NZ	1:M7:190:ASP:OD1	2.46	0.46
1:MR:642:PHE:CZ	1:MS:564:ILE:HD11	2.50	0.46
1:MW:94:PRO:HD3	1:MW:222:VAL:O	2.16	0.46
1:MW:332:GLU:H	1:MW:332:GLU:CD	2.22	0.46
1:MW:617:VAL:HG22	1:MW:622:GLU:HB2	1.97	0.46
1:MZ:23:SER:O	1:MZ:76:ASN:HB2	2.15	0.46
1:MZ:279:TYR:OH	1:MZ:332:GLU:HA	2.16	0.46
1:Mv:116:ILE:HD12	1:Mv:171:ILE:HG12	1.98	0.46
1:NV:143:ILE:HD12	1:NV:145:ILE:HD11	1.97	0.46
1:NW:302:LYS:HA	1:NW:302:LYS:HD2	1.80	0.46
1:NW:383:LEU:HD22	1:NW:439:ASN:HB2	1.98	0.46
1:NZ:253:PRO:HG2	1:NZ:255:TYR:CE2	2.51	0.46
1:NZ:524:PRO:HG2	1:NZ:536:TYR:HB3	1.98	0.46
1:Nb:107:GLY:HA3	1:Nb:180:ALA:HB2	1.98	0.46
1:Nc:100:GLU:HG2	1:Nc:186:LYS:O	2.15	0.46
1:Nw:252:LEU:HD22	1:Nw:335:SER:O	2.16	0.46
1:Nz:494:TYR:HE2	1:Nz:528:THR:HG21	1.81	0.46
2:OC:54:MET:HE1	2:Oi:116:TYR:CD2	2.50	0.46
2:OG:56:ARG:HB3	2:OG:56:ARG:NH1	2.31	0.46
2:OJ:41:LEU:HB2	2:Oo:140:LEU:HB3	1.98	0.46
2:Oi:107:TYR:O	2:Oi:133:TRP:HB3	2.15	0.46
2:Ok:25:ILE:C	2:Ok:27:TYR:H	2.24	0.46
2:Ok:154:GLU:OE1	2:Ok:154:GLU:N	2.49	0.46
2:Oq:54:MET:HE3	2:PM:20:LEU:HA	1.96	0.46
2:PJ:61:ALA:HA	2:Po:133:TRP:CH2	2.51	0.46
2:PO:61:ALA:HA	2:Pt:133:TRP:CH2	2.51	0.46
2:Ph:54:MET:H	2:Ph:54:MET:HG2	1.54	0.46
2:Pi:136:ASN:O	2:Pi:136:ASN:ND2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pq:61:ALA:HA	2:RL:133:TRP:CH2	2.50	0.46
2:Ps:62:GLY:O	2:Pt:118:ARG:NH2	2.49	0.46
2:RF:14:ASP:OD1	2:RF:17:ARG:NH1	2.47	0.46
2:RG:140:LEU:HD13	2:RG:153:PHE:HB3	1.96	0.46
2:RI:27:TYR:CE1	2:RI:109:LYS:HE2	2.51	0.46
2:RI:107:TYR:O	2:RI:133:TRP:HB3	2.16	0.46
2:Rn:82:ARG:NH1	2:Rn:138:GLY:HA2	2.29	0.46
2:Rp:17:ARG:NH1	2:Rp:118:ARG:HD3	2.30	0.46
1:K1:571:ARG:NH2	1:K1:587:GLU:OE1	2.25	0.46
1:K1:601:ILE:HG12	1:K1:629:ILE:HD12	1.98	0.46
1:K3:215:LYS:HB2	1:K3:329:ASN:ND2	2.31	0.46
1:K3:305:TYR:CZ	1:Nb:646:ALA:HB2	2.51	0.46
1:K3:638:ILE:HG23	1:K4:623:PHE:HD2	1.80	0.46
1:K5:490:SER:OG	1:K5:538:ASP:OD2	2.27	0.46
1:K8:269:PHE:CE1	1:K8:292:SER:HB2	2.51	0.46
1:K9:110:TYR:N	1:K9:138:GLY:HA3	2.27	0.46
1:K9:135:ASP:OD1	1:K9:136:ALA:N	2.49	0.46
1:L0:116:ILE:HD12	1:L0:171:ILE:HG12	1.96	0.46
1:L1:66:MET:HG2	1:L1:468:VAL:HG21	1.97	0.46
1:L1:238:ILE:HG23	1:L1:281:ILE:HD13	1.98	0.46
1:L1:642:PHE:CZ	1:L2:564:ILE:HD11	2.51	0.46
1:L2:206:THR:HA	1:L2:211:GLN:HE21	1.81	0.46
1:L5:271:TYR:OH	1:LZ:549:ASP:OD2	2.22	0.46
1:L6:432:ALA:HB2	1:L6:440:ASN:ND2	2.31	0.46
1:L6:444:SER:HG	1:L6:543:SER:HG	1.48	0.46
1:L8:120:TYR:CE2	1:L8:157:VAL:HG11	2.51	0.46
1:L9:654:LEU:HA	1:L9:654:LEU:HD23	1.61	0.46
1:LQ:105:THR:HB	1:LQ:181:VAL:H	1.81	0.46
1:LQ:495:ASN:OD1	1:LQ:495:ASN:N	2.36	0.46
1:LU:643:VAL:HG13	1:Lz:14:THR:HG22	1.97	0.46
1:LX:2:THR:OG1	1:LX:3:LEU:N	2.48	0.46
1:LZ:143:ILE:HD12	1:LZ:145:ILE:HD11	1.97	0.46
1:La:572:LEU:HD12	1:La:572:LEU:HA	1.73	0.46
1:Lb:116:ILE:HD12	1:Lb:171:ILE:HG12	1.97	0.46
1:Ld:639:THR:HB	1:Le:624:VAL:HG12	1.97	0.46
1:Lv:104:SER:HG	1:Lv:183:THR:HG1	1.63	0.46
1:Lv:278:GLN:HG2	1:Lv:296:SER:HB3	1.97	0.46
1:Lw:441:PHE:CZ	1:Lw:443:ILE:HD11	2.51	0.46
1:Lx:536:TYR:HD1	1:Lx:536:TYR:HA	1.67	0.46
1:Lz:406:LEU:HD22	1:Lz:474:ILE:HG13	1.98	0.46
1:M1:484:VAL:HG13	1:M1:485:SER:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M2:426:LEU:HD12	1:M2:517:LEU:HD11	1.97	0.46
1:MQ:497:GLY:O	1:MQ:534:VAL:HA	2.15	0.46
1:MQ:614:THR:C	1:MQ:616:SER:H	2.23	0.46
1:MQ:642:PHE:CE2	1:MR:561:LYS:HG2	2.50	0.46
1:MU:540:THR:HG23	1:MU:551:ILE:HG12	1.96	0.46
1:MW:296:SER:O	1:MW:311:ILE:HG13	2.15	0.46
1:MW:453:ASN:OD1	1:MW:505:LEU:HG	2.16	0.46
1:MY:572:LEU:O	1:MY:573:PHE:C	2.59	0.46
1:MY:650:ASP:C	1:MY:652:ASP:H	2.24	0.46
1:Ma:129:GLY:HA2	1:Ma:146:PRO:HD3	1.97	0.46
1:Ma:195:LEU:HD22	1:Ma:201:ALA:HB1	1.97	0.46
1:Ma:536:TYR:HD1	1:Ma:536:TYR:HA	1.64	0.46
1:Me:135:ASP:OD1	1:Me:136:ALA:N	2.49	0.46
1:Mv:57:PRO:HA	1:Mv:61:THR:HB	1.98	0.46
1:Mv:481:THR:HG23	1:Mv:496:ARG:HD3	1.98	0.46
1:Mw:384:GLU:O	1:Mw:388:THR:OG1	2.26	0.46
1:Mw:605:ARG:HH12	1:Mw:607:VAL:HG22	1.81	0.46
1:NV:46:ASN:OD1	1:NV:47:GLU:N	2.49	0.46
1:NV:494:TYR:CE2	1:NW:569:LYS:HG3	2.51	0.46
1:NW:430:ARG:HG3	1:NW:522:ILE:HD11	1.98	0.46
1:NX:41:ILE:HD11	1:NX:361:PHE:HB3	1.97	0.46
1:NX:373:PHE:HB2	1:NX:405:VAL:HG22	1.98	0.46
1:NX:510:ARG:HG2	1:NX:511:GLN:H	1.80	0.46
1:NX:560:LEU:O	1:NX:564:ILE:HG23	2.16	0.46
1:Na:66:MET:HG2	1:Na:468:VAL:HG21	1.97	0.46
1:Nd:315:PHE:HB3	1:Nd:324:PHE:CD1	2.51	0.46
1:Nd:332:GLU:H	1:Nd:332:GLU:CD	2.21	0.46
1:Ni:251:LEU:HB3	1:Ni:260:THR:HB	1.98	0.46
1:Ni:485:SER:OG	1:Ni:486:GLN:N	2.48	0.46
1:Nx:400:ARG:NH1	1:Nx:402:ASP:OD1	2.49	0.46
1:Nz:66:MET:HG2	1:Nz:468:VAL:HG11	1.98	0.46
2:OG:27:TYR:CG	2:OG:109:LYS:HG3	2.51	0.46
2:OG:150:ILE:HG12	2:OG:151:GLN:N	2.28	0.46
2:OM:19:ASN:OD1	2:OM:19:ASN:N	2.35	0.46
2:Oh:88:TRP:CE2	2:Oh:134:PRO:HD3	2.51	0.46
2:Oj:73:VAL:HG12	2:Oj:74:MET:O	2.15	0.46
2:On:120:ALA:HB2	2:PH:99:ILE:O	2.16	0.46
2:Op:2:PHE:HD2	2:Po:97:ASN:HB3	1.81	0.46
2:Op:73:VAL:HG12	2:Op:74:MET:O	2.15	0.46
2:Or:45:ILE:HG23	2:Or:65:THR:O	2.16	0.46
2:PK:136:ASN:O	2:PK:136:ASN:ND2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PL:61:ALA:HA	2:Pq:133:TRP:CH2	2.51	0.46
2:Ph:40:ALA:O	2:Ph:69:TRP:NE1	2.47	0.46
2:Ph:143:ASP:CG	2:Ph:145:ASP:H	2.23	0.46
2:Pi:100:THR:OG1	2:Pi:101:GLY:N	2.49	0.46
2:Po:42:PRO:HD2	2:Po:127:ILE:HD11	1.98	0.46
2:RJ:8:ARG:HD2	2:Ro:34:PHE:CE2	2.51	0.46
2:RL:104:PRO:HA	2:RL:107:TYR:CE2	2.51	0.46
2:Rp:17:ARG:HB2	2:Rp:20:LEU:HD12	1.97	0.46
2:Rt:25:ILE:C	2:Rt:27:TYR:H	2.23	0.46
1:K0:116:ILE:HD12	1:K0:171:ILE:HG12	1.98	0.46
1:K2:484:VAL:HG13	1:K2:485:SER:H	1.81	0.46
1:K4:351:THR:OG1	1:K4:352:ALA:N	2.49	0.46
1:L2:104:SER:HB2	1:L2:181:VAL:HB	1.98	0.46
1:L3:256:PRO:HG2	1:L3:339:THR:H	1.80	0.46
1:L3:400:ARG:NH1	1:L3:402:ASP:OD1	2.48	0.46
1:L4:256:PRO:HG2	1:L4:339:THR:H	1.81	0.46
1:L5:110:TYR:H	1:L5:138:GLY:CA	2.29	0.46
1:L5:202:GLU:OE1	1:L5:203:ALA:N	2.49	0.46
1:L5:400:ARG:HD3	1:L5:403:CYS:SG	2.56	0.46
1:L5:572:LEU:O	1:L5:573:PHE:C	2.59	0.46
1:L5:628:TYR:OH	1:MY:15:VAL:O	2.25	0.46
1:L6:566:ARG:HA	1:L6:569:LYS:HD2	1.96	0.46
1:L6:572:LEU:HD12	1:L6:572:LEU:HA	1.74	0.46
1:L8:510:ARG:HG2	1:L8:511:GLN:H	1.80	0.46
1:LQ:405:VAL:O	1:LQ:448:ALA:HA	2.16	0.46
1:LQ:411:ARG:HG3	1:LQ:454:TYR:HE2	1.80	0.46
1:LR:166:ASN:N	1:LR:166:ASN:OD1	2.47	0.46
1:LU:494:TYR:HE2	1:LU:528:THR:HG21	1.81	0.46
1:LY:101:TYR:OH	1:LY:216:LYS:O	2.34	0.46
1:LY:480:ARG:O	1:LY:484:VAL:HG12	2.16	0.46
1:LZ:392:HIS:O	1:LZ:395:SER:OG	2.27	0.46
1:LZ:412:GLU:OE1	1:LZ:412:GLU:N	2.46	0.46
1:Le:572:LEU:O	1:Le:573:PHE:C	2.59	0.46
1:Lv:110:TYR:CD1	1:Lv:177:GLY:HA3	2.51	0.46
1:Lz:302:LYS:HA	1:Lz:302:LYS:HD3	1.78	0.46
1:Lz:518:TYR:CZ	1:Lz:539:LYS:HD2	2.51	0.46
1:M0:430:ARG:HG3	1:M0:522:ILE:HD11	1.98	0.46
1:M3:378:CYS:HB2	1:M3:410:PRO:HA	1.98	0.46
1:M6:411:ARG:NH1	1:M6:415:VAL:HG21	2.31	0.46
1:M9:33:PHE:HA	1:M9:61:THR:HG23	1.98	0.46
1:MU:485:SER:OG	1:MU:486:GLN:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MW:612:ASN:HB3	1:MW:624:VAL:HG23	1.98	0.46
1:MX:454:TYR:HB3	1:MX:467:TRP:CD1	2.51	0.46
1:MZ:11:LYS:HG2	1:MZ:13:THR:HG23	1.98	0.46
1:MZ:32:LYS:NZ	1:MZ:60:GLU:OE2	2.49	0.46
1:Ma:455:LYS:HZ1	1:Ma:457:GLN:CD	2.24	0.46
1:Mc:538:ASP:O	1:Mc:551:ILE:HG13	2.16	0.46
1:Md:133:GLU:HB3	1:Md:142:LYS:HB2	1.98	0.46
1:Md:284:ARG:HG2	1:Md:289:ILE:HD13	1.97	0.46
1:Md:427:VAL:O	1:Md:431:THR:OG1	2.30	0.46
1:Md:454:TYR:HB3	1:Md:467:TRP:HD1	1.81	0.46
1:Md:571:ARG:HE	1:Md:584:PHE:HD1	1.62	0.46
1:Me:64:TYR:CE2	1:Me:377:SER:HB3	2.50	0.46
1:Mx:31:GLY:HA3	1:Mx:64:TYR:CD2	2.50	0.46
1:Mz:423:VAL:HG21	1:Mz:513:GLN:HB3	1.98	0.46
1:NV:130:LYS:HE2	1:NV:130:LYS:HB2	1.70	0.46
1:NX:72:LEU:HD12	1:NX:72:LEU:HA	1.79	0.46
1:NX:222:VAL:HG11	1:NX:236:ILE:HG12	1.97	0.46
1:NX:378:CYS:SG	1:NX:469:PRO:HB3	2.56	0.46
1:Na:151:ILE:O	1:Na:155:LYS:HG2	2.16	0.46
1:Nf:29:LEU:O	1:Nf:80:VAL:HA	2.16	0.46
1:Nh:252:LEU:HD22	1:Nh:335:SER:O	2.16	0.46
1:Nw:456:TYR:HB2	1:Nw:504:LYS:HG2	1.98	0.46
1:Nw:645:THR:OG1	1:Nx:629:ILE:O	2.33	0.46
1:Nx:654:LEU:HD22	1:Nz:605:ARG:HD3	1.97	0.46
2:OM:95:GLN:HG2	2:Rr:64:ARG:NH1	2.31	0.46
2:OO:56:ARG:HG3	2:PO:99:ILE:HG13	1.98	0.46
2:Ot:61:ALA:HA	2:PO:133:TRP:CH2	2.50	0.46
2:PE:41:LEU:HB2	2:Pj:140:LEU:HB3	1.98	0.46
2:PG:54:MET:O	2:PG:56:ARG:N	2.49	0.46
2:PN:88:TRP:CE2	2:PN:134:PRO:HD3	2.51	0.46
2:RF:25:ILE:C	2:RF:27:TYR:H	2.23	0.46
2:RF:41:LEU:HD12	2:RF:41:LEU:HA	1.81	0.46
2:RI:125:LYS:HG2	2:Rn:79:HIS:ND1	2.31	0.46
2:RL:131:GLY:O	2:RL:159:LEU:HA	2.15	0.46
2:RM:82:ARG:HH12	2:RM:138:GLY:HA2	1.79	0.46
2:RT:73:VAL:HB	2:RT:153:PHE:CE1	2.51	0.46
1:K0:456:TYR:HB3	1:K0:504:LYS:HB3	1.98	0.45
1:K1:375:ALA:HB1	1:K1:390:GLN:HG2	1.98	0.45
1:K2:135:ASP:OD1	1:K2:136:ALA:N	2.49	0.45
1:K4:456:TYR:O	1:K4:503:ILE:HG12	2.15	0.45
1:K7:103:ILE:HD13	1:K7:182:ILE:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K9:479:ALA:O	1:K9:483:ASN:ND2	2.49	0.45
1:L1:14:THR:HG22	1:LV:643:VAL:HG13	1.98	0.45
1:L2:451:ASP:OD2	1:L2:470:LEU:HB3	2.15	0.45
1:L2:505:LEU:HD21	1:L2:525:VAL:HG12	1.98	0.45
1:L3:12:GLU:CD	1:LY:561:LYS:HZ1	2.20	0.45
1:L3:378:CYS:SG	1:L3:469:PRO:HB3	2.57	0.45
1:L4:350:VAL:HG13	1:L4:354:ASP:HB2	1.98	0.45
1:L5:432:ALA:HB2	1:L5:442:ASN:HB2	1.98	0.45
1:L8:29:LEU:HD12	1:L8:30:ALA:H	1.81	0.45
1:L8:467:TRP:CZ3	1:L9:199:GLU:HB2	2.51	0.45
1:LS:103:ILE:HD13	1:LS:182:ILE:HG22	1.97	0.45
1:LS:269:PHE:CE1	1:LS:292:SER:HB2	2.52	0.45
1:LX:521:ALA:HA	1:LX:539:LYS:HE2	1.97	0.45
1:La:11:LYS:HG2	1:La:13:THR:HG23	1.98	0.45
1:La:575:LEU:HB3	1:La:577:ASN:HD22	1.80	0.45
1:Lb:525:VAL:HG22	1:Lb:535:LEU:HD23	1.98	0.45
1:Ld:110:TYR:CD1	1:Ld:177:GLY:HA3	2.51	0.45
1:Le:134:VAL:HG12	1:Le:140:ILE:HA	1.97	0.45
1:Le:269:PHE:HE2	1:Le:294:VAL:HG23	1.81	0.45
1:Le:310:TYR:CE2	1:Le:312:ASP:HB2	2.51	0.45
1:Lv:36:GLY:O	1:Lv:82:ARG:NH1	2.46	0.45
1:Lw:130:LYS:HE2	1:Lw:130:LYS:HB2	1.83	0.45
1:Lw:161:PRO:O	1:Lw:186:LYS:HB2	2.16	0.45
1:Lx:47:GLU:OE1	1:Lx:461:TYR:OH	2.34	0.45
1:M0:438:ASP:OD1	1:M0:438:ASP:N	2.39	0.45
1:M0:572:LEU:O	1:M0:573:PHE:C	2.59	0.45
1:M1:30:ALA:HA	1:M1:81:VAL:O	2.15	0.45
1:M1:432:ALA:HB2	1:M1:442:ASN:HB2	1.98	0.45
1:M2:444:SER:HB3	1:M2:543:SER:H	1.80	0.45
1:M4:366:GLU:OE1	1:M4:367:SER:N	2.48	0.45
1:M4:457:GLN:HG2	1:M4:458:TYR:H	1.81	0.45
1:M6:485:SER:HB3	1:M6:496:ARG:HD3	1.99	0.45
1:M8:654:LEU:HD23	1:M8:654:LEU:HA	1.77	0.45
1:MR:440:ASN:N	1:MR:440:ASN:ND2	2.64	0.45
1:MS:91:ASN:N	1:MS:91:ASN:OD1	2.49	0.45
1:MU:110:TYR:H	1:MU:138:GLY:CA	2.29	0.45
1:MV:36:GLY:O	1:MV:82:ARG:NH1	2.49	0.45
1:MX:66:MET:HB3	1:MX:468:VAL:HG11	1.98	0.45
1:MZ:441:PHE:CZ	1:MZ:443:ILE:HD11	2.50	0.45
1:MZ:458:TYR:HE1	1:Ma:317:LYS:HZ1	1.62	0.45
1:MZ:563:ASN:HD22	1:MZ:566:ARG:HH12	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mb:34:GLN:NE2	1:Mb:56:GLN:H	2.14	0.45
1:Mb:375:ALA:HB1	1:Mb:390:GLN:HG2	1.99	0.45
1:Mc:495:ASN:OD1	1:Mc:495:ASN:N	2.48	0.45
1:Mv:368:VAL:HG12	1:Mv:370:VAL:H	1.82	0.45
1:Mw:519:GLN:NE2	1:NW:4:LEU:HD13	2.30	0.45
1:Mx:184:LEU:HA	1:Mx:184:LEU:HD23	1.69	0.45
1:Mx:451:ASP:OD2	1:Mx:470:LEU:HB3	2.15	0.45
1:NV:34:GLN:HG2	1:NV:230:LEU:HG	1.98	0.45
1:NV:362:PHE:HB3	1:NV:373:PHE:HE2	1.81	0.45
1:Na:225:LEU:HD13	1:Na:324:PHE:HB2	1.97	0.45
1:Na:560:LEU:O	1:Na:564:ILE:HG23	2.17	0.45
1:Nb:29:LEU:O	1:Nb:80:VAL:HA	2.15	0.45
1:Nb:487:THR:HG21	1:Nb:559:MET:HE3	1.97	0.45
1:Nb:571:ARG:NH2	1:Nb:587:GLU:OE1	2.43	0.45
1:Nh:470:LEU:HD23	1:Nh:525:VAL:HG21	1.98	0.45
1:Nj:116:ILE:HD13	1:Nj:171:ILE:HG23	1.98	0.45
1:Nj:505:LEU:HD12	1:Nj:505:LEU:HA	1.67	0.45
1:Nv:505:LEU:HA	1:Nv:505:LEU:HD12	1.64	0.45
1:Nw:30:ALA:HB2	1:Nw:81:VAL:HG13	1.97	0.45
1:Nw:389:VAL:O	1:Nw:393:VAL:HG23	2.16	0.45
1:Nw:451:ASP:O	1:Nw:522:ILE:HG23	2.15	0.45
1:Nw:560:LEU:O	1:Nw:564:ILE:HG23	2.16	0.45
2:OC:82:ARG:O	2:OC:86:VAL:HG13	2.16	0.45
2:OC:93:ALA:HB1	2:RR:64:ARG:HB2	1.98	0.45
2:OL:25:ILE:C	2:OL:27:TYR:H	2.24	0.45
2:ON:25:ILE:C	2:ON:27:TYR:H	2.25	0.45
2:OO:112:ILE:HD11	2:OO:126:GLU:OE2	2.16	0.45
2:Ok:14:ASP:CG	2:Ok:17:ARG:HH21	2.24	0.45
2:Ol:99:ILE:HG12	2:Rl:56:ARG:HG3	1.99	0.45
2:PG:41:LEU:HA	2:PG:41:LEU:HD12	1.76	0.45
2:PI:114:ARG:HG2	2:PI:126:GLU:HG3	1.98	0.45
2:Ph:124:THR:HB	2:RC:78:ALA:HA	1.98	0.45
2:Pn:54:MET:H	2:Pn:54:MET:HG2	1.49	0.45
2:Pp:124:THR:HB	2:RK:78:ALA:HA	1.98	0.45
2:RI:85:PHE:CD2	2:RI:155:VAL:HG11	2.51	0.45
2:RL:82:ARG:O	2:RL:86:VAL:HG13	2.16	0.45
2:RR:103:LYS:O	2:RR:106:GLU:HG2	2.16	0.45
2:Rl:134:PRO:HA	2:Rl:157:LEU:HA	1.98	0.45
2:Rs:58:ILE:HD12	2:Rt:6:VAL:HG21	1.98	0.45
1:K0:104:SER:OG	1:K0:183:THR:OG1	2.30	0.45
1:K0:239:VAL:HG22	1:K0:280:ALA:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K1:489:MET:HE1	1:K2:575:LEU:HD13	1.99	0.45
1:K2:451:ASP:OD1	1:K2:452:GLY:N	2.47	0.45
1:K4:451:ASP:OD2	1:K4:470:LEU:HB3	2.15	0.45
1:K8:91:ASN:OD1	1:K8:194:LEU:HA	2.16	0.45
1:L1:41:ILE:HD11	1:L1:361:PHE:HB3	1.98	0.45
1:L1:42:LYS:HE3	1:L1:42:LYS:HB3	1.72	0.45
1:L2:161:PRO:O	1:L2:186:LYS:HB2	2.16	0.45
1:L2:284:ARG:HG2	1:L2:289:ILE:HD13	1.97	0.45
1:L2:467:TRP:HZ3	1:L3:199:GLU:HB2	1.82	0.45
1:L7:602:TYR:O	1:L7:603:GLU:HG3	2.16	0.45
1:L8:284:ARG:HG2	1:L8:289:ILE:HD13	1.99	0.45
1:L9:115:LYS:HE2	1:L9:128:GLU:HA	1.98	0.45
1:LR:572:LEU:O	1:LR:573:PHE:C	2.59	0.45
1:LY:378:CYS:SG	1:LY:469:PRO:HB3	2.56	0.45
1:LY:639:THR:HB	1:LZ:624:VAL:HG12	1.97	0.45
1:Lb:132:THR:OG1	1:Lb:142:LYS:HG2	2.17	0.45
1:Lc:423:VAL:HG21	1:Lc:513:GLN:HB3	1.98	0.45
1:Ld:42:LYS:HE3	1:Ld:42:LYS:HB3	1.76	0.45
1:Ld:413:THR:OG1	1:Ld:425:ASN:HB3	2.16	0.45
1:Lv:346:SER:O	1:Lv:350:VAL:HG23	2.16	0.45
1:Lx:455:LYS:O	1:Lx:455:LYS:HG3	2.17	0.45
1:M0:157:VAL:HG23	1:M0:159:GLU:H	1.81	0.45
1:M2:110:TYR:H	1:M2:138:GLY:CA	2.29	0.45
1:M5:505:LEU:HD12	1:M5:505:LEU:HA	1.71	0.45
1:M8:315:PHE:CE1	1:M8:323:ILE:HG13	2.51	0.45
1:M8:601:ILE:HG21	1:M8:629:ILE:HD12	1.99	0.45
1:M9:41:ILE:HD11	1:M9:361:PHE:HB3	1.97	0.45
1:M9:261:ARG:NH1	1:M9:337:ILE:HD13	2.31	0.45
1:MR:451:ASP:CG	1:MR:452:GLY:H	2.25	0.45
1:MS:34:GLN:NE2	1:MS:230:LEU:HD12	2.31	0.45
1:MV:494:TYR:CE1	1:MW:569:LYS:HG3	2.51	0.45
1:MY:617:VAL:HG22	1:MY:622:GLU:HB2	1.98	0.45
1:MZ:152:ALA:O	1:MZ:156:GLU:HG2	2.17	0.45
1:MZ:453:ASN:OD1	1:MZ:453:ASN:N	2.49	0.45
1:Ma:365:ARG:HA	1:Ma:400:ARG:NH2	2.30	0.45
1:Mb:30:ALA:HB2	1:Mb:81:VAL:HG13	1.98	0.45
1:Mc:272:GLY:O	1:Mc:274:GLN:NE2	2.47	0.45
1:Mc:451:ASP:OD2	1:Mc:470:LEU:HB3	2.17	0.45
1:Me:221:GLY:O	1:Me:325:ALA:HA	2.16	0.45
1:Mw:107:GLY:HA3	1:Mw:180:ALA:HB2	1.97	0.45
1:NV:394:VAL:HG11	1:NV:443:ILE:HD12	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NW:213:ASN:O	1:NW:217:TYR:HD2	1.99	0.45
1:NW:451:ASP:OD2	1:NW:470:LEU:HB3	2.16	0.45
1:NX:478:CYS:O	1:NX:555:ARG:NH1	2.43	0.45
1:Nc:42:LYS:HE3	1:Nc:42:LYS:HB3	1.67	0.45
1:Nf:379:ALA:C	1:Nf:381:GLU:H	2.24	0.45
1:Nf:523:ASN:N	1:Nf:523:ASN:OD1	2.47	0.45
1:Nh:525:VAL:HG22	1:Nh:535:LEU:HD23	1.99	0.45
1:Ni:378:CYS:SG	1:Ni:454:TYR:OH	2.58	0.45
1:Nj:29:LEU:O	1:Nj:80:VAL:HA	2.16	0.45
1:Nj:400:ARG:HD3	1:Nj:403:CYS:SG	2.56	0.45
1:Nj:538:ASP:HB2	1:Nj:551:ILE:HG13	1.99	0.45
1:Nv:480:ARG:C	1:Nv:482:ASP:H	2.23	0.45
1:Nx:383:LEU:HD11	1:Nx:436:TYR:CE2	2.50	0.45
1:Nz:383:LEU:HD11	1:Nz:436:TYR:CE1	2.50	0.45
2:OC:49:ILE:O	2:OC:49:ILE:HG12	2.13	0.45
2:OC:131:GLY:O	2:OC:159:LEU:HA	2.17	0.45
2:OD:72:THR:O	2:OD:72:THR:OG1	2.31	0.45
2:OJ:118:ARG:N	2:Oo:77:GLU:OE2	2.45	0.45
2:PG:83:GLN:HA	2:PG:86:VAL:HG22	1.98	0.45
2:PO:41:LEU:HG	2:PO:127:ILE:HD13	1.96	0.45
2:Po:64:ARG:NH1	2:RJ:95:GLN:HG2	2.31	0.45
2:Ps:75:ASN:HB3	2:Ps:151:GLN:HB3	1.97	0.45
2:RJ:19:ASN:OD1	2:RJ:19:ASN:N	2.31	0.45
2:RJ:124:THR:HB	2:Ro:78:ALA:HA	1.96	0.45
2:RN:140:LEU:HD21	2:RN:151:GLN:OE1	2.16	0.45
2:RR:62:GLY:O	2:RS:118:ARG:NH2	2.49	0.45
2:Rk:95:GLN:H	2:Rk:95:GLN:HG3	1.61	0.45
2:Rm:70:THR:HG22	2:Rm:156:THR:HG22	1.98	0.45
2:Rp:27:TYR:CD1	2:Rp:109:LYS:HE2	2.51	0.45
1:K1:62:ALA:O	1:K1:66:MET:HB2	2.16	0.45
1:K3:94:PRO:HD3	1:K3:222:VAL:O	2.16	0.45
1:K3:135:ASP:OD1	1:K3:136:ALA:N	2.49	0.45
1:K3:561:LYS:HB3	1:LW:10:LEU:HD13	1.98	0.45
1:K5:487:THR:HG21	1:K5:559:MET:HE3	1.98	0.45
1:K6:457:GLN:HG2	1:K6:458:TYR:H	1.82	0.45
1:K8:485:SER:OG	1:K8:486:GLN:N	2.48	0.45
1:K9:455:LYS:NZ	1:K9:457:GLN:OE1	2.48	0.45
1:L3:614:THR:O	1:L3:616:SER:N	2.45	0.45
1:L9:110:TYR:N	1:L9:138:GLY:HA3	2.26	0.45
1:LU:563:ASN:ND2	1:LU:591:TYR:OH	2.42	0.45
1:LV:116:ILE:HD11	1:LV:131:ILE:HG13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LW:28:ALA:HB2	1:LW:370:VAL:HG21	1.99	0.45
1:LX:470:LEU:HD12	1:LX:470:LEU:HA	1.81	0.45
1:La:229:GLU:OE2	1:La:345:SER:OG	2.24	0.45
1:Lv:153:LYS:HB3	1:Lv:167:TRP:HH2	1.81	0.45
1:Lw:400:ARG:NH1	1:Lw:402:ASP:OD1	2.50	0.45
1:Lw:572:LEU:O	1:Lw:573:PHE:C	2.58	0.45
1:Lz:94:PRO:HD3	1:Lz:222:VAL:O	2.17	0.45
1:M0:308:ASN:ND2	1:M0:313:ASP:OD2	2.49	0.45
1:M1:205:MET:HE2	1:M1:326:THR:HG22	1.97	0.45
1:M2:614:THR:C	1:M2:616:SER:H	2.24	0.45
1:M6:35:TRP:O	1:M6:54:PHE:HA	2.17	0.45
1:M7:225:LEU:HD13	1:M7:324:PHE:HB2	1.98	0.45
1:M7:494:TYR:HE1	1:M7:536:TYR:HE1	1.63	0.45
1:M8:29:LEU:O	1:M8:80:VAL:HA	2.17	0.45
1:M8:44:VAL:HG11	1:M8:50:LEU:HB2	1.98	0.45
1:MQ:72:LEU:HD13	1:MQ:72:LEU:HA	1.72	0.45
1:MQ:545:PRO:HB2	1:Mv:304:ILE:HD13	1.97	0.45
1:MR:571:ARG:NH1	1:MR:584:PHE:HD1	2.15	0.45
1:MS:247:GLY:HA2	1:MS:266:LYS:HG3	1.98	0.45
1:MU:114:ASP:N	1:MU:114:ASP:OD1	2.48	0.45
1:MU:379:ALA:C	1:MU:381:GLU:H	2.24	0.45
1:MV:654:LEU:HD23	1:MV:654:LEU:HA	1.80	0.45
1:MW:378:CYS:SG	1:MW:454:TYR:OH	2.63	0.45
1:MX:129:GLY:HA2	1:MX:144:ASN:O	2.16	0.45
1:MX:365:ARG:HA	1:MX:400:ARG:NH2	2.30	0.45
1:MX:405:VAL:O	1:MX:448:ALA:HA	2.16	0.45
1:MX:494:TYR:HE2	1:MX:528:THR:HG21	1.80	0.45
1:Ma:121:VAL:HG13	1:Ma:166:ASN:HB3	1.99	0.45
1:Mb:289:ILE:H	1:Mb:289:ILE:HG12	1.59	0.45
1:Mv:104:SER:N	1:Mv:181:VAL:O	2.48	0.45
1:Mv:152:ALA:O	1:Mv:156:GLU:HG2	2.15	0.45
1:Mv:244:TYR:CZ	1:Mv:266:LYS:HD2	2.51	0.45
1:Mw:480:ARG:O	1:Mw:484:VAL:HG12	2.17	0.45
1:Mx:467:TRP:CH2	1:Mz:199:GLU:HB2	2.51	0.45
1:Mz:519:GLN:NE2	1:NZ:4:LEU:HD13	2.31	0.45
1:NV:256:PRO:HG2	1:NV:339:THR:H	1.81	0.45
1:NV:480:ARG:O	1:NV:484:VAL:HG12	2.16	0.45
1:NW:505:LEU:HA	1:NW:505:LEU:HD12	1.78	0.45
1:NX:66:MET:HG2	1:NX:468:VAL:HG21	1.98	0.45
1:Nb:42:LYS:HE3	1:Nb:42:LYS:HB3	1.73	0.45
1:Nc:102:THR:HB	1:Nc:183:THR:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ne:100:GLU:OE2	1:Ne:186:LYS:HG3	2.15	0.45
1:Ng:247:GLY:HA2	1:Ng:266:LYS:HG3	1.97	0.45
1:Nh:296:SER:O	1:Nh:311:ILE:HG13	2.17	0.45
1:Nx:470:LEU:HA	1:Nx:470:LEU:HD12	1.80	0.45
1:Nz:400:ARG:HD3	1:Nz:403:CYS:SG	2.56	0.45
2:OF:1:MET:HE3	2:OF:1:MET:HB2	1.60	0.45
2:Oh:64:ARG:HH12	2:PC:95:GLN:HG2	1.80	0.45
2:Oo:124:THR:HB	2:PJ:78:ALA:HA	1.98	0.45
2:Os:1:MET:HE3	2:Os:1:MET:HB2	1.73	0.45
2:PH:80:ASP:O	2:PH:84:LYS:HG3	2.17	0.45
2:PH:129:ILE:HG21	2:PH:132:LEU:HD13	1.99	0.45
2:PO:67:ASP:OD1	2:PO:67:ASP:N	2.28	0.45
2:PO:103:LYS:O	2:PO:106:GLU:HG2	2.16	0.45
2:Pi:1:MET:HE3	2:Pi:1:MET:HB2	1.67	0.45
2:RH:67:ASP:OD1	2:RH:67:ASP:N	2.33	0.45
2:RN:107:TYR:O	2:RN:133:TRP:HB3	2.16	0.45
2:RO:61:ALA:HA	2:Rt:133:TRP:CH2	2.52	0.45
2:Rp:124:THR:O	2:Rp:125:LYS:HB3	2.16	0.45
2:Rt:133:TRP:CZ3	2:Rt:135:THR:HG22	2.51	0.45
1:K1:157:VAL:HG23	1:K1:159:GLU:H	1.81	0.45
1:K2:121:VAL:HG13	1:K2:166:ASN:HB3	1.99	0.45
1:K2:137:ASP:OD1	1:K2:137:ASP:N	2.50	0.45
1:K2:614:THR:C	1:K2:616:SER:H	2.24	0.45
1:K5:8:ILE:HD11	1:Nf:569:LYS:HG3	1.99	0.45
1:K6:572:LEU:HD12	1:K6:572:LEU:HA	1.80	0.45
1:K7:233:LYS:NZ	1:K7:286:ASN:OD1	2.32	0.45
1:K8:40:GLN:H	1:K8:81:VAL:HG23	1.81	0.45
1:L0:379:ALA:HB2	1:L0:454:TYR:HE2	1.81	0.45
1:L2:107:GLY:HA3	1:L2:110:TYR:HE2	1.82	0.45
1:L2:143:ILE:HD12	1:L2:145:ILE:HD11	1.98	0.45
1:L3:109:ASN:N	1:L3:109:ASN:OD1	2.48	0.45
1:L3:470:LEU:HD12	1:L3:470:LEU:HA	1.66	0.45
1:L5:36:GLY:O	1:L5:82:ARG:NH1	2.45	0.45
1:L6:643:VAL:HG13	1:Ma:14:THR:HG22	1.98	0.45
1:LQ:512:ALA:O	1:LQ:516:ARG:HG3	2.16	0.45
1:LR:450:ILE:HG22	1:LR:541:ALA:HB2	1.97	0.45
1:LS:131:ILE:HG12	1:LS:143:ILE:HG22	1.99	0.45
1:LS:453:ASN:OD1	1:LS:505:LEU:HG	2.17	0.45
1:LW:453:ASN:OD1	1:LW:505:LEU:HG	2.16	0.45
1:LX:33:PHE:HB2	1:LX:82:ARG:HG3	1.97	0.45
1:LX:559:MET:HG3	1:LX:560:LEU:N	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LZ:23:SER:O	1:LZ:76:ASN:HB2	2.17	0.45
1:La:455:LYS:HG3	1:La:502:VAL:HG13	1.99	0.45
1:Lc:614:THR:C	1:Lc:616:SER:H	2.25	0.45
1:Le:100:GLU:HG3	1:Le:185:GLY:HA3	1.97	0.45
1:Lv:110:TYR:CG	1:Lv:177:GLY:HA3	2.51	0.45
1:Lx:505:LEU:HD12	1:Lx:505:LEU:HA	1.80	0.45
1:M1:450:ILE:HG22	1:M1:541:ALA:HB2	1.98	0.45
1:M3:26:THR:HA	1:M3:77:ASP:O	2.17	0.45
1:M4:511:GLN:HE21	1:Nd:3:LEU:HD22	1.82	0.45
1:M5:72:LEU:HD13	1:M5:72:LEU:HA	1.73	0.45
1:M5:373:PHE:HB2	1:M5:405:VAL:HG22	1.98	0.45
1:M7:100:GLU:OE2	1:M7:186:LYS:HG3	2.16	0.45
1:M7:159:GLU:OE1	1:M7:164:GLY:N	2.49	0.45
1:M8:454:TYR:HB3	1:M8:467:TRP:HD1	1.79	0.45
1:MQ:446:THR:OG1	1:MQ:554:ARG:NH2	2.44	0.45
1:MQ:470:LEU:HD12	1:MQ:470:LEU:HA	1.81	0.45
1:MR:494:TYR:HE2	1:MR:528:THR:HG21	1.81	0.45
1:MU:47:GLU:HG3	1:MU:69:MET:HG3	1.99	0.45
1:MV:114:ASP:HB2	1:MV:131:ILE:HG13	1.99	0.45
1:Ma:107:GLY:HA3	1:Ma:110:TYR:CE2	2.48	0.45
1:NX:400:ARG:NH1	1:NX:402:ASP:OD1	2.50	0.45
1:NZ:247:GLY:HA2	1:NZ:266:LYS:HG3	1.99	0.45
1:NZ:251:LEU:H	1:NZ:251:LEU:HD12	1.81	0.45
1:NZ:650:ASP:C	1:NZ:652:ASP:H	2.23	0.45
1:Na:222:VAL:HG22	1:Na:325:ALA:HB2	1.97	0.45
1:Nb:505:LEU:HD21	1:Nb:525:VAL:HG12	1.98	0.45
1:Nc:332:GLU:OE1	1:Nc:332:GLU:N	2.47	0.45
1:Ng:406:LEU:HD22	1:Ng:474:ILE:HG13	1.98	0.45
1:Ng:470:LEU:O	1:Ng:474:ILE:HG23	2.16	0.45
1:Nh:355:LEU:HA	1:Nh:355:LEU:HD23	1.78	0.45
1:Nv:155:LYS:HD3	1:Nv:160:TYR:HB3	1.98	0.45
1:Nx:410:PRO:HD2	1:Nx:413:THR:HG21	1.97	0.45
2:OC:70:THR:HG22	2:OC:156:THR:HG22	1.99	0.45
2:OF:49:ILE:HG13	2:OF:60:VAL:HG12	1.99	0.45
2:OJ:133:TRP:CH2	2:Ro:61:ALA:HA	2.51	0.45
2:Ol:48:LYS:HB2	2:PG:133:TRP:CZ2	2.51	0.45
2:Oq:64:ARG:HH11	2:Oq:64:ARG:HG2	1.82	0.45
2:Or:25:ILE:C	2:Or:27:TYR:H	2.25	0.45
2:Ot:1:MET:HB2	2:Ot:1:MET:HE3	1.65	0.45
2:Ot:56:ARG:HB3	2:Ot:56:ARG:NH1	2.32	0.45
2:PF:82:ARG:NH1	2:PF:138:GLY:HA2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PF:120:ALA:HB2	2:Pj:99:ILE:O	2.17	0.45
2:PJ:82:ARG:O	2:PJ:86:VAL:HG13	2.16	0.45
2:Pi:58:ILE:HD12	2:Pj:6:VAL:HG21	1.97	0.45
2:Po:38:ALA:HB3	2:Po:72:THR:HG23	1.98	0.45
2:Pp:72:THR:HG22	2:Pp:154:GLU:HG3	1.99	0.45
2:Pr:41:LEU:HG	2:Pr:127:ILE:HD13	1.97	0.45
2:Pr:74:MET:HB3	2:Pr:150:ILE:HD11	1.99	0.45
2:RN:41:LEU:HD11	2:RN:113:VAL:HG21	1.97	0.45
2:RT:154:GLU:OE1	2:RT:154:GLU:N	2.49	0.45
2:Rm:124:THR:O	2:Rm:125:LYS:HB3	2.16	0.45
2:Ro:17:ARG:HG3	2:Ro:20:LEU:HD12	1.99	0.45
1:K0:29:LEU:O	1:K0:80:VAL:HA	2.16	0.45
1:K0:102:THR:N	1:K0:183:THR:O	2.47	0.45
1:K0:119:LYS:HG2	1:K0:124:ASP:HA	1.97	0.45
1:K4:103:ILE:HD13	1:K4:182:ILE:HG22	1.99	0.45
1:K4:247:GLY:HA2	1:K4:266:LYS:HG3	1.99	0.45
1:K4:505:LEU:HD22	1:K4:533:TYR:CD2	2.52	0.45
1:K7:577:ASN:C	1:K7:581:ARG:HH21	2.24	0.45
1:K9:23:SER:O	1:K9:76:ASN:HB2	2.17	0.45
1:L0:219:ILE:H	1:L0:219:ILE:HD13	1.81	0.45
1:L1:368:VAL:HG12	1:L1:370:VAL:HG22	1.98	0.45
1:L3:221:GLY:O	1:L3:325:ALA:HA	2.16	0.45
1:L4:480:ARG:C	1:L4:482:ASP:H	2.25	0.45
1:L5:246:LYS:HB2	1:L5:250:ALA:HB2	1.99	0.45
1:L7:373:PHE:HB2	1:L7:405:VAL:HA	1.98	0.45
1:LQ:412:GLU:HA	1:LQ:415:VAL:HG12	1.98	0.45
1:LR:18:THR:HG22	1:LR:460:LYS:NZ	2.32	0.45
1:LR:116:ILE:HD11	1:LR:131:ILE:HG12	1.98	0.45
1:LU:457:GLN:O	1:LU:465:ASN:HA	2.17	0.45
1:LV:593:GLN:NE2	2:Rl:4:ASP:OD2	2.47	0.45
1:LW:455:LYS:O	1:LW:467:TRP:HD1	2.00	0.45
1:LX:332:GLU:OE1	1:LX:332:GLU:N	2.45	0.45
1:LX:568:SER:HB3	1:LX:584:PHE:CE1	2.52	0.45
1:LX:593:GLN:NE2	2:Rn:4:ASP:OD2	2.41	0.45
1:Lb:560:LEU:O	1:Lb:564:ILE:HG12	2.16	0.45
1:Lc:29:LEU:O	1:Lc:80:VAL:HA	2.16	0.45
1:Le:450:ILE:HD13	1:Le:522:ILE:HG12	1.98	0.45
1:Le:614:THR:C	1:Le:616:SER:H	2.25	0.45
1:Lw:252:LEU:HD22	1:Lw:335:SER:O	2.16	0.45
1:M0:89:ALA:HA	1:M0:345:SER:O	2.17	0.45
1:M0:450:ILE:HD13	1:M0:522:ILE:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M4:633:ARG:HD2	1:M4:633:ARG:HA	1.79	0.45
1:M5:23:SER:O	1:M5:76:ASN:HB2	2.17	0.45
1:M6:130:LYS:NZ	1:M6:132:THR:HG22	2.31	0.45
1:M7:115:LYS:HA	1:M7:115:LYS:HD2	1.64	0.45
1:M8:107:GLY:HA3	1:M8:180:ALA:HB2	1.97	0.45
1:MQ:37:PRO:O	1:MQ:82:ARG:HB3	2.17	0.45
1:MQ:441:PHE:CZ	1:MQ:443:ILE:HD11	2.51	0.45
1:MR:46:ASN:HB3	1:MR:49:ASP:H	1.81	0.45
1:MR:135:ASP:OD1	1:MR:136:ALA:N	2.50	0.45
1:MR:440:ASN:N	1:MR:440:ASN:HD22	2.15	0.45
1:MV:572:LEU:HD12	1:MV:572:LEU:HA	1.82	0.45
1:Md:44:VAL:HG11	1:Md:50:LEU:HB2	1.98	0.45
1:Me:298:LYS:HB2	1:Me:298:LYS:NZ	2.32	0.45
1:Mv:644:ALA:O	1:Mv:645:THR:OG1	2.28	0.45
1:Mw:401:GLN:O	1:Mw:561:LYS:HE3	2.16	0.45
1:Mx:495:ASN:OD1	1:Mx:495:ASN:N	2.49	0.45
1:NV:219:ILE:HG22	1:NV:255:TYR:HD2	1.82	0.45
1:NW:39:PHE:HB3	1:NW:361:PHE:CE1	2.52	0.45
1:NW:310:TYR:CE2	1:NW:312:ASP:HB2	2.51	0.45
1:NX:118:VAL:HB	1:NX:126:GLU:HB3	1.99	0.45
1:Ne:383:LEU:HD11	1:Ne:436:TYR:CE2	2.51	0.45
1:Nh:647:THR:O	1:Ni:630:GLN:NE2	2.49	0.45
1:Ni:39:PHE:HB3	1:Ni:361:PHE:CE2	2.52	0.45
1:Nj:605:ARG:HB3	1:Nj:605:ARG:HH11	1.81	0.45
1:Nw:373:PHE:HB2	1:Nw:405:VAL:HG22	1.99	0.45
1:Nw:455:LYS:HB3	1:Nw:470:LEU:HD13	1.97	0.45
1:Nx:197:GLU:HB2	1:Nx:199:GLU:OE2	2.16	0.45
1:Nx:238:ILE:HG23	1:Nx:281:ILE:HG12	1.97	0.45
1:Nz:79:ARG:NH2	1:Nz:369:ASP:OD1	2.47	0.45
2:OH:99:ILE:O	2:Rn:120:ALA:HB2	2.17	0.45
2:OM:133:TRP:CH2	2:Rr:61:ALA:HA	2.51	0.45
2:ON:14:ASP:OD1	2:ON:17:ARG:NH2	2.49	0.45
2:Oi:2:PHE:HB2	2:Oi:5:ASP:OD1	2.17	0.45
2:Oj:154:GLU:N	2:Oj:154:GLU:OE1	2.50	0.45
2:Op:49:ILE:HG13	2:Op:60:VAL:HG12	1.97	0.45
2:Oq:67:ASP:OD1	2:Oq:67:ASP:N	2.49	0.45
2:Or:74:MET:HB3	2:Or:150:ILE:HD11	1.98	0.45
2:PE:140:LEU:HD12	2:PE:140:LEU:HA	1.76	0.45
2:PF:121:LYS:HE2	2:PF:121:LYS:HB3	1.82	0.45
2:PK:103:LYS:O	2:PK:106:GLU:HG2	2.17	0.45
2:Ph:112:ILE:HD11	2:Ph:126:GLU:OE2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Po:25:ILE:C	2:Po:27:TYR:H	2.24	0.45
2:Ps:20:LEU:HD13	2:Ps:118:ARG:HA	1.99	0.45
2:RG:140:LEU:HD12	2:RG:140:LEU:HA	1.62	0.45
2:RK:1:MET:HE3	2:RK:1:MET:HB2	1.70	0.45
2:RS:39:THR:HG23	2:RS:71:VAL:HG13	1.99	0.45
2:Rk:23:VAL:HG22	2:Rk:36:CYS:SG	2.57	0.45
2:Rt:70:THR:HG22	2:Rt:156:THR:HG22	1.97	0.45
1:K4:29:LEU:O	1:K4:80:VAL:HA	2.17	0.45
1:K4:195:LEU:HD23	1:K4:195:LEU:H	1.80	0.45
1:K7:31:GLY:HA3	1:K7:64:TYR:CD2	2.52	0.45
1:K8:272:GLY:O	1:K8:274:GLN:NE2	2.43	0.45
1:L0:23:SER:OG	1:L0:74:TYR:O	2.32	0.45
1:L0:432:ALA:HB2	1:L0:440:ASN:HD22	1.81	0.45
1:L1:143:ILE:HD12	1:L1:145:ILE:HD11	1.99	0.45
1:L1:557:PHE:CZ	1:L1:629:ILE:HG12	2.51	0.45
1:L2:315:PHE:CE2	1:L2:325:ALA:HB3	2.51	0.45
1:L4:109:ASN:OD1	1:L4:109:ASN:N	2.50	0.45
1:L4:157:VAL:HG23	1:L4:159:GLU:H	1.81	0.45
1:LQ:410:PRO:O	1:LQ:413:THR:HG22	2.16	0.45
1:LR:42:LYS:HE3	1:LR:42:LYS:HB3	1.87	0.45
1:LR:45:THR:HA	1:LR:76:ASN:O	2.17	0.45
1:LS:391:LYS:NZ	1:LS:440:ASN:O	2.50	0.45
1:LV:57:PRO:HG3	1:LV:65:PHE:CD1	2.52	0.45
1:LW:392:HIS:O	1:LW:395:SER:OG	2.24	0.45
1:LX:598:LEU:HA	1:LX:598:LEU:HD23	1.76	0.45
1:La:209:ASP:OD1	1:La:209:ASP:N	2.48	0.45
1:Ld:572:LEU:O	1:Ld:573:PHE:C	2.59	0.45
1:Lv:153:LYS:HD3	1:Lv:156:GLU:HB2	1.98	0.45
1:Lw:100:GLU:HB3	1:Lw:188:ILE:HD11	1.99	0.45
1:Lx:480:ARG:O	1:Lx:484:VAL:HG12	2.17	0.45
1:Lx:489:MET:HE1	1:Lz:575:LEU:HD13	1.99	0.45
1:Lx:572:LEU:HD12	1:Lx:572:LEU:HA	1.77	0.45
1:M1:243:ASP:OD1	1:M1:243:ASP:N	2.49	0.45
1:M2:432:ALA:CB	1:M2:440:ASN:HD22	2.30	0.45
1:M6:284:ARG:HG2	1:M6:289:ILE:HD13	1.97	0.45
1:M8:46:ASN:OD1	1:M8:47:GLU:N	2.50	0.45
1:M8:91:ASN:HD21	1:M8:195:LEU:HG	1.82	0.45
1:MQ:120:TYR:CE1	1:MQ:166:ASN:HB2	2.52	0.45
1:MR:296:SER:O	1:MR:311:ILE:HG13	2.17	0.45
1:MR:406:LEU:HD13	1:MR:475:ALA:HB2	1.99	0.45
1:MS:66:MET:HE3	1:MS:66:MET:HB2	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MW:23:SER:O	1:MW:76:ASN:HB2	2.17	0.45
1:MW:42:LYS:HE3	1:MW:42:LYS:HB3	1.73	0.45
1:MW:383:LEU:HD11	1:MW:436:TYR:CE1	2.52	0.45
1:MX:438:ASP:OD1	1:MX:438:ASP:N	2.49	0.45
1:MZ:107:GLY:HA3	1:MZ:110:TYR:CE2	2.50	0.45
1:MZ:153:LYS:HD3	1:MZ:156:GLU:HB2	1.99	0.45
1:MZ:569:LYS:HB3	1:MZ:569:LYS:HE2	1.70	0.45
1:MZ:572:LEU:O	1:MZ:573:PHE:C	2.60	0.45
1:Ma:215:LYS:HB2	1:Ma:329:ASN:ND2	2.31	0.45
1:Mc:76:ASN:O	1:Mc:76:ASN:ND2	2.37	0.45
1:Mc:137:ASP:OD1	1:Mc:137:ASP:N	2.49	0.45
1:Mc:614:THR:C	1:Mc:616:SER:H	2.25	0.45
1:Md:154:ALA:HA	1:Md:157:VAL:HG22	1.98	0.45
1:Mx:269:PHE:CZ	1:Mx:280:ALA:HB1	2.52	0.45
1:NZ:484:VAL:HG13	1:NZ:485:SER:H	1.81	0.45
1:Na:83:ALA:HB2	1:Na:358:ALA:HB2	1.98	0.45
1:Nb:94:PRO:HD3	1:Nb:222:VAL:O	2.17	0.45
1:Ne:620:ARG:HB2	1:Ne:622:GLU:HG3	1.98	0.45
1:Nh:175:SER:OG	1:Nh:176:SER:N	2.50	0.45
1:Ni:470:LEU:HD12	1:Ni:470:LEU:HA	1.75	0.45
1:Nv:403:CYS:O	1:Nv:558:ASN:ND2	2.49	0.45
1:Nv:536:TYR:HD1	1:Nv:536:TYR:HA	1.66	0.45
1:Nw:220:PRO:HG2	1:Nw:338:LEU:HD11	1.98	0.45
1:Nx:100:GLU:HG2	1:Nx:186:LYS:O	2.17	0.45
1:Nz:266:LYS:HE3	1:Nz:266:LYS:HB3	1.80	0.45
1:Nz:291:GLN:OE1	1:Nz:320:SER:OG	2.27	0.45
2:Ok:118:ARG:HA	2:Ok:118:ARG:HD2	1.76	0.45
2:Om:17:ARG:HG3	2:Om:20:LEU:HD12	1.99	0.45
2:PC:17:ARG:HG3	2:PC:20:LEU:HD12	1.98	0.45
2:PL:41:LEU:HB2	2:Pq:140:LEU:HB3	1.98	0.45
2:Pj:14:ASP:OD1	2:Pj:17:ARG:NH2	2.50	0.45
2:Pk:156:THR:O	2:Pk:156:THR:OG1	2.34	0.45
2:Pm:49:ILE:HG22	2:RI:148:ASN:HB3	1.98	0.45
2:RJ:67:ASP:OD1	2:RJ:67:ASP:N	2.45	0.45
2:RK:82:ARG:NH1	2:RK:138:GLY:HA2	2.32	0.45
2:RL:73:VAL:HG12	2:RL:74:MET:O	2.17	0.45
2:RN:125:LYS:HG2	2:Rs:79:HIS:ND1	2.32	0.45
2:RO:82:ARG:NH1	2:RO:138:GLY:HA2	2.32	0.45
2:Rl:25:ILE:C	2:Rl:27:TYR:H	2.25	0.45
2:Rr:25:ILE:HG13	2:Rr:32:PHE:CE2	2.51	0.45
1:K2:426:LEU:HD23	1:K2:426:LEU:HA	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K4:560:LEU:O	1:K4:564:ILE:HG23	2.17	0.45
1:K6:37:PRO:HG2	1:K6:42:LYS:HD2	1.99	0.45
1:K6:134:VAL:HG12	1:K6:140:ILE:HG22	1.99	0.45
1:K6:612:ASN:HB3	1:K6:624:VAL:HG23	1.98	0.45
1:K8:351:THR:OG1	1:K8:352:ALA:N	2.49	0.45
1:K9:413:THR:HG23	1:K9:425:ASN:HB3	1.98	0.45
1:L1:209:ASP:N	1:L1:209:ASP:OD1	2.50	0.45
1:L3:51:VAL:HG22	1:L3:65:PHE:HZ	1.81	0.45
1:L3:572:LEU:HD12	1:L3:572:LEU:HA	1.77	0.45
1:L4:569:LYS:HB3	1:L4:569:LYS:HE2	1.53	0.45
1:L5:143:ILE:HD13	1:L5:182:ILE:HD13	1.98	0.45
1:L9:482:ASP:HB2	1:L9:487:THR:HG22	1.99	0.45
1:LQ:72:LEU:HD13	1:LQ:72:LEU:HA	1.85	0.45
1:LQ:163:LEU:HD12	1:LQ:186:LYS:HA	1.98	0.45
1:LS:379:ALA:HA	1:LS:411:ARG:HB2	1.97	0.45
1:LS:400:ARG:NH1	1:LS:403:CYS:SG	2.79	0.45
1:LS:456:TYR:HD1	1:LS:456:TYR:HA	1.69	0.45
1:LY:642:PHE:CE1	1:LZ:561:LYS:HG2	2.51	0.45
1:LZ:114:ASP:OD1	1:LZ:114:ASP:N	2.47	0.45
1:LZ:302:LYS:HA	1:LZ:302:LYS:HD3	1.73	0.45
1:Lb:244:TYR:HD1	1:Lb:265:ALA:HB1	1.82	0.45
1:Ld:49:ASP:OD1	1:Ld:49:ASP:N	2.50	0.45
1:Ld:454:TYR:HB3	1:Ld:467:TRP:CD1	2.52	0.45
1:Le:451:ASP:OD2	1:Le:470:LEU:HB3	2.17	0.45
1:Lv:454:TYR:HB3	1:Lv:467:TRP:CD1	2.51	0.45
1:Lw:240:SER:OG	1:Lw:243:ASP:OD1	2.34	0.45
1:Lw:485:SER:OG	1:Lw:486:GLN:N	2.49	0.45
1:Lw:645:THR:HB	1:Lw:650:ASP:OD1	2.15	0.45
1:M0:487:THR:HG21	1:M0:559:MET:HE3	1.98	0.45
1:M0:629:ILE:O	1:M9:645:THR:HB	2.17	0.45
1:M1:72:LEU:HD13	1:M1:72:LEU:HA	1.85	0.45
1:M1:650:ASP:C	1:M1:652:ASP:H	2.24	0.45
1:M2:57:PRO:HG3	1:M2:65:PHE:CD1	2.51	0.45
1:M2:636:ASN:H	1:M3:621:ASN:HB3	1.82	0.45
1:M4:511:GLN:OE1	1:M4:514:ARG:NH2	2.49	0.45
1:M5:614:THR:C	1:M5:616:SER:H	2.25	0.45
1:M8:35:TRP:O	1:M8:54:PHE:HA	2.17	0.45
1:M9:94:PRO:HD3	1:M9:340:LEU:HD22	1.99	0.45
1:M9:572:LEU:O	1:M9:573:PHE:C	2.59	0.45
1:M9:607:VAL:O	1:M9:612:ASN:ND2	2.50	0.45
1:M9:614:THR:O	1:M9:616:SER:N	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MQ:110:TYR:CG	1:MQ:177:GLY:HA3	2.52	0.45
1:MQ:131:ILE:HG12	1:MQ:143:ILE:HG22	1.98	0.45
1:MQ:273:PRO:HB3	1:MQ:278:GLN:HB2	1.98	0.45
1:MQ:302:LYS:O	1:MQ:307:SER:N	2.50	0.45
1:MS:35:TRP:O	1:MS:54:PHE:HA	2.16	0.45
1:MS:112:VAL:HG22	1:MS:134:VAL:HG22	1.99	0.45
1:MS:365:ARG:HA	1:MS:400:ARG:NH2	2.31	0.45
1:MS:643:VAL:HG21	1:MU:628:TYR:CE2	2.52	0.45
1:Mb:374:ILE:HG22	1:Mb:376:GLY:H	1.81	0.45
1:Mv:509:THR:O	1:Mv:514:ARG:NH1	2.50	0.45
1:Mx:569:LYS:O	1:Mx:572:LEU:HB2	2.16	0.45
1:Mz:481:THR:HG23	1:Mz:485:SER:HB3	1.99	0.45
1:NV:505:LEU:HD22	1:NV:533:TYR:HD2	1.82	0.45
1:NW:129:GLY:HA3	1:NW:145:ILE:HD13	1.99	0.45
1:NW:202:GLU:OE1	1:NW:203:ALA:N	2.50	0.45
1:NX:644:ALA:O	1:NX:645:THR:OG1	2.34	0.45
1:NZ:43:GLN:HG3	1:NZ:77:ASP:OD1	2.16	0.45
1:Nc:497:GLY:O	1:Nc:534:VAL:HA	2.17	0.45
1:Nd:642:PHE:CE1	1:Ne:561:LYS:HG2	2.51	0.45
1:Ne:39:PHE:CE1	1:Ne:86:ARG:HD2	2.51	0.45
1:Ne:41:ILE:HD11	1:Ne:361:PHE:HB3	1.98	0.45
1:Ne:252:LEU:HG	1:Ne:263:SER:HB3	1.99	0.45
1:Ne:549:ASP:O	1:Ne:550:ARG:NE	2.47	0.45
1:Nj:453:ASN:HB2	1:Nj:506:ALA:HB3	1.97	0.45
1:Nx:494:TYR:HE2	1:Nx:528:THR:HG21	1.82	0.45
2:OI:91:ILE:HG22	2:OI:107:TYR:HB3	1.99	0.45
2:Oj:27:TYR:CE1	2:Oj:109:LYS:HE2	2.51	0.45
2:Oj:67:ASP:OD1	2:Oj:67:ASP:N	2.45	0.45
2:Op:27:TYR:CD1	2:Op:109:LYS:HE2	2.51	0.45
2:Oq:41:LEU:HB3	2:PL:140:LEU:HB3	1.97	0.45
2:Oq:64:ARG:NH1	2:PL:95:GLN:HG3	2.31	0.45
2:Or:97:ASN:HB3	2:Rs:2:PHE:HD1	1.82	0.45
2:Or:98:GLU:OE1	2:Or:98:GLU:N	2.41	0.45
2:PD:75:ASN:HD21	2:PD:79:HIS:CD2	2.35	0.45
2:PE:25:ILE:HG13	2:PE:32:PHE:CE2	2.52	0.45
2:PH:116:TYR:CE1	2:PH:123:VAL:HG22	2.52	0.45
2:PJ:56:ARG:HB3	2:PJ:56:ARG:HH11	1.81	0.45
2:PN:22:GLN:HB2	2:PN:116:TYR:HE1	1.82	0.45
2:Pl:132:LEU:HA	2:Pl:158:ALA:O	2.17	0.45
2:Po:73:VAL:HG12	2:Po:74:MET:O	2.16	0.45
2:Ps:48:LYS:HG3	2:Ps:59:ASN:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RH:41:LEU:HB2	2:Rm:140:LEU:HB3	1.98	0.45
2:RM:134:PRO:HA	2:RM:157:LEU:HA	1.98	0.45
2:RN:39:THR:HG22	2:RN:71:VAL:HG22	1.98	0.45
2:Rn:23:VAL:HG22	2:Rn:36:CYS:SG	2.57	0.45
2:Ro:82:ARG:O	2:Ro:86:VAL:HG13	2.17	0.45
2:Rq:41:LEU:HG	2:Rq:127:ILE:HD13	1.98	0.45
2:Rr:69:TRP:CZ3	2:Rr:132:LEU:HD21	2.52	0.45
1:K1:162:THR:O	1:K1:186:LYS:HB3	2.16	0.45
1:K1:430:ARG:HG3	1:K1:522:ILE:HD11	1.98	0.45
1:K1:654:LEU:HD13	1:K2:605:ARG:HD3	1.98	0.45
1:K2:494:TYR:CE2	1:K2:528:THR:HG21	2.49	0.45
1:K2:557:PHE:CE1	1:K2:629:ILE:HD11	2.52	0.45
1:K3:456:TYR:HB3	1:K3:503:ILE:HG23	1.98	0.45
1:K4:40:GLN:H	1:K4:81:VAL:HG23	1.81	0.45
1:K4:70:ASN:OD1	1:K4:457:GLN:NE2	2.50	0.45
1:K5:527:GLY:HA2	1:K5:533:TYR:CD2	2.52	0.45
1:K6:451:ASP:CG	1:K6:452:GLY:H	2.23	0.45
1:K7:102:THR:N	1:K7:183:THR:O	2.50	0.45
1:K9:202:GLU:H	1:K9:202:GLU:HG3	1.57	0.45
1:K9:384:GLU:O	1:K9:388:THR:OG1	2.32	0.45
1:L1:82:ARG:NH2	1:L1:227:PRO:O	2.50	0.45
1:L2:109:ASN:N	1:L2:138:GLY:HA3	2.32	0.45
1:L3:205:MET:HE2	1:L3:205:MET:HB3	1.80	0.45
1:L3:617:VAL:HG22	1:L3:622:GLU:HB2	1.99	0.45
1:L3:635:ILE:O	1:L4:573:PHE:HA	2.17	0.45
1:L6:4:LEU:HB2	1:La:515:ASP:CG	2.41	0.45
1:L6:467:TRP:CZ3	1:L7:199:GLU:HB2	2.52	0.45
1:L8:296:SER:O	1:L8:311:ILE:HG13	2.17	0.45
1:L8:536:TYR:HD1	1:L8:536:TYR:HA	1.67	0.45
1:L9:23:SER:OG	1:L9:74:TYR:O	2.29	0.45
1:LQ:169:ALA:HB2	1:LQ:184:LEU:HD11	1.99	0.45
1:LQ:644:ALA:O	1:LQ:645:THR:OG1	2.32	0.45
1:LR:23:SER:O	1:LR:76:ASN:HB2	2.17	0.45
1:LR:66:MET:HE3	1:LR:66:MET:HB2	1.84	0.45
1:LR:655:THR:HB	1:Lw:19:VAL:HG21	1.99	0.45
1:LV:23:SER:OG	1:LV:74:TYR:O	2.35	0.45
1:LV:90:LYS:HB3	1:LV:191:SER:OG	2.16	0.45
1:LV:125:ILE:HG21	1:LV:167:TRP:HZ3	1.82	0.45
1:LV:400:ARG:NH1	1:LV:402:ASP:OD1	2.49	0.45
1:LW:477:LEU:HD23	1:LW:535:LEU:HD12	1.99	0.45
1:LZ:368:VAL:O	1:LZ:400:ARG:NH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LZ:569:LYS:HE2	1:LZ:569:LYS:HB3	1.70	0.45
1:La:215:LYS:HB2	1:La:329:ASN:HD22	1.82	0.45
1:Lb:400:ARG:HD3	1:Lb:403:CYS:SG	2.57	0.45
1:Lb:654:LEU:HD23	1:Lb:654:LEU:HA	1.58	0.45
1:Lc:296:SER:O	1:Lc:311:ILE:HG13	2.17	0.45
1:Lv:332:GLU:H	1:Lv:332:GLU:CD	2.20	0.45
1:Lv:371:GLN:OE1	1:Lv:562:THR:OG1	2.18	0.45
1:Lw:639:THR:HB	1:Lx:624:VAL:HG12	1.98	0.45
1:Lx:373:PHE:HB2	1:Lx:405:VAL:HG22	1.99	0.45
1:Lz:44:VAL:HG11	1:Lz:50:LEU:HB2	1.99	0.45
1:M0:23:SER:O	1:M0:76:ASN:HB2	2.16	0.45
1:M1:424:ASP:OD1	1:M1:516:ARG:NH2	2.46	0.45
1:M2:151:ILE:HG22	1:M2:187:ILE:HG13	1.98	0.45
1:M3:352:ALA:O	1:M3:356:MET:HG3	2.17	0.45
1:M3:453:ASN:HB3	1:M3:507:ILE:HG12	1.99	0.45
1:M8:643:VAL:HG13	1:Nh:14:THR:HG22	1.99	0.45
1:MQ:103:ILE:HD13	1:MQ:182:ILE:HG22	1.97	0.45
1:MR:166:ASN:OD1	1:MR:166:ASN:N	2.49	0.45
1:MR:654:LEU:HA	1:MR:654:LEU:HD23	1.70	0.45
1:MS:296:SER:O	1:MS:311:ILE:HG13	2.17	0.45
1:MU:441:PHE:CE2	1:MU:443:ILE:HD11	2.52	0.45
1:MY:654:LEU:HD23	1:MY:654:LEU:HA	1.62	0.45
1:MZ:315:PHE:CE2	1:MZ:325:ALA:HB3	2.52	0.45
1:Mc:554:ARG:O	1:Mc:554:ARG:HD3	2.17	0.45
1:Md:359:TRP:HZ3	1:Md:373:PHE:HD2	1.63	0.45
1:Md:391:LYS:NZ	1:Md:440:ASN:OD1	2.46	0.45
1:Mv:655:THR:HB	1:NV:19:VAL:HG21	1.99	0.45
1:Mx:154:ALA:HA	1:Mx:157:VAL:HG22	1.99	0.45
1:NV:497:GLY:O	1:NV:534:VAL:HA	2.17	0.45
1:NW:394:VAL:HG11	1:NW:443:ILE:HD12	1.98	0.45
1:NX:99:ILE:HD12	1:NX:150:ILE:HG21	1.99	0.45
1:NZ:453:ASN:HB2	1:NZ:506:ALA:HB3	1.98	0.45
1:Na:100:GLU:HG2	1:Na:186:LYS:O	2.16	0.45
1:Nc:32:LYS:NZ	1:Nc:350:VAL:HB	2.31	0.45
1:Ne:383:LEU:HD11	1:Ne:436:TYR:HE2	1.81	0.45
1:Ne:451:ASP:OD2	1:Ne:470:LEU:HB3	2.17	0.45
1:Nj:2:THR:OG1	1:Nj:3:LEU:N	2.50	0.45
1:Nw:106:PRO:HB2	1:Nw:139:LYS:HD2	1.98	0.45
1:Nw:269:PHE:CE2	1:Nw:280:ALA:HB1	2.52	0.45
1:Nx:91:ASN:OD1	1:Nx:194:LEU:HA	2.16	0.45
1:Nz:120:TYR:CE2	1:Nz:157:VAL:HG11	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nz:470:LEU:HD12	1:Nz:470:LEU:HA	1.83	0.45
2:OJ:140:LEU:HD12	2:OJ:140:LEU:HA	1.72	0.45
2:OL:64:ARG:NH1	2:Oq:95:GLN:OE1	2.47	0.45
2:OO:140:LEU:HD12	2:OO:140:LEU:HA	1.68	0.45
2:Oo:82:ARG:O	2:Oo:86:VAL:HG13	2.16	0.45
2:Op:112:ILE:HD11	2:Op:126:GLU:OE2	2.17	0.45
2:Ph:140:LEU:HD12	2:Ph:140:LEU:HA	1.68	0.45
2:Pp:39:THR:HG22	2:Pp:71:VAL:HG22	1.99	0.45
2:Pp:116:TYR:CE1	2:Pp:123:VAL:HG22	2.52	0.45
2:Ps:16:ALA:HB2	2:RN:76:ASP:O	2.17	0.45
2:Pt:121:LYS:HE2	2:Pt:121:LYS:HB3	1.82	0.45
2:RD:22:GLN:HB2	2:RD:116:TYR:HE2	1.81	0.45
2:RG:114:ARG:HG2	2:RG:126:GLU:HG3	1.99	0.45
2:RI:82:ARG:NH1	2:RI:138:GLY:HA2	2.31	0.45
2:RL:132:LEU:HD13	2:RL:159:LEU:HB3	1.99	0.45
2:RM:104:PRO:HA	2:RM:107:TYR:CE2	2.52	0.45
2:RT:67:ASP:N	2:RT:67:ASP:OD1	2.49	0.45
2:Rl:140:LEU:HD11	2:Rl:151:GLN:HG2	1.98	0.45
2:Rs:131:GLY:O	2:Rs:159:LEU:HA	2.17	0.45
1:K1:473:ASP:O	1:K1:477:LEU:HD13	2.17	0.45
1:K5:131:ILE:HD13	1:K5:140:ILE:HG21	1.99	0.45
1:K8:110:TYR:N	1:K8:138:GLY:HA3	2.20	0.45
1:K9:64:TYR:CE1	1:K9:377:SER:HB3	2.51	0.45
1:K9:598:LEU:HA	1:K9:598:LEU:HD23	1.73	0.45
1:L0:64:TYR:HE1	1:L0:377:SER:HB3	1.81	0.45
1:L0:504:LYS:HG2	1:L0:505:LEU:H	1.82	0.45
1:L2:379:ALA:HB2	1:L2:454:TYR:HE2	1.82	0.45
1:L2:456:TYR:CE2	1:L2:465:ASN:HB3	2.51	0.45
1:L3:215:LYS:HB2	1:L3:329:ASN:ND2	2.32	0.45
1:L3:538:ASP:HA	1:L3:551:ILE:HD12	1.98	0.45
1:L5:118:VAL:HB	1:L5:126:GLU:HB3	1.97	0.45
1:L5:159:GLU:HB3	1:L5:163:LEU:HA	1.98	0.45
1:L5:464:VAL:HG12	1:L6:313:ASP:HB3	1.98	0.45
1:L7:514:ARG:NH1	1:L8:366:GLU:OE2	2.50	0.45
1:L8:110:TYR:CE1	1:L8:171:ILE:HD12	2.52	0.45
1:LS:390:GLN:HB3	1:LS:441:PHE:HE1	1.80	0.45
1:LU:650:ASP:C	1:LU:652:ASP:H	2.25	0.45
1:LV:94:PRO:HD3	1:LV:222:VAL:O	2.16	0.45
1:LX:57:PRO:HG3	1:LX:65:PHE:CD1	2.52	0.45
1:LY:154:ALA:HA	1:LY:157:VAL:HG22	1.98	0.45
1:LY:382:SER:OG	1:LY:385:THR:HG22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lb:205:MET:O	1:Lb:211:GLN:NE2	2.46	0.45
1:Lc:389:VAL:O	1:Lc:393:VAL:HG23	2.16	0.45
1:Ld:118:VAL:HB	1:Ld:126:GLU:HB3	1.99	0.45
1:Lv:394:VAL:HG11	1:Lv:443:ILE:HD12	1.99	0.45
1:Lz:210:PHE:CE2	1:Lz:214:LEU:HD11	2.51	0.45
1:M1:34:GLN:NE2	1:M1:230:LEU:HD12	2.32	0.45
1:M1:118:VAL:HG22	1:M1:169:ALA:HB2	1.98	0.45
1:M2:34:GLN:NE2	1:M2:56:GLN:H	2.15	0.45
1:M2:355:LEU:HD23	1:M2:355:LEU:HA	1.82	0.45
1:M2:412:GLU:OE1	1:M2:412:GLU:N	2.48	0.45
1:M2:451:ASP:OD2	1:M2:470:LEU:HB3	2.17	0.45
1:M3:115:LYS:HD2	1:M3:115:LYS:HA	1.77	0.45
1:M6:238:ILE:HG23	1:M6:281:ILE:HD13	1.99	0.45
1:M7:3:LEU:HD11	1:M7:9:GLU:HB2	1.99	0.45
1:M7:39:PHE:CE1	1:M7:86:ARG:HD2	2.50	0.45
1:M8:617:VAL:HG22	1:M8:622:GLU:HB2	1.99	0.45
1:MQ:66:MET:HG2	1:MQ:468:VAL:HG21	1.98	0.45
1:MQ:432:ALA:HB2	1:MQ:442:ASN:HB2	1.98	0.45
1:MX:102:THR:HB	1:MX:183:THR:HB	1.99	0.45
1:Mb:238:ILE:O	1:Mb:335:SER:HA	2.17	0.45
1:Mc:134:VAL:HG12	1:Mc:140:ILE:HG22	1.99	0.45
1:Md:253:PRO:HG2	1:Md:255:TYR:HE1	1.81	0.45
1:Mv:22:ASN:HB2	1:Mv:75:GLY:O	2.16	0.45
1:Mx:131:ILE:HD13	1:Mx:140:ILE:HG21	1.99	0.45
1:NV:523:ASN:OD1	1:NV:539:LYS:N	2.46	0.45
1:NW:57:PRO:HB3	1:NW:62:ALA:HA	1.99	0.45
1:NX:617:VAL:HG22	1:NX:622:GLU:HB2	1.99	0.45
1:NZ:415:VAL:HG13	1:NZ:416:GLY:N	2.32	0.45
1:NZ:654:LEU:HD22	1:Na:605:ARG:HH11	1.82	0.45
1:Nb:219:ILE:HD13	1:Nb:219:ILE:H	1.82	0.45
1:Nb:436:TYR:HB3	1:Nb:439:ASN:O	2.16	0.45
1:Nf:410:PRO:O	1:Nf:413:THR:HG22	2.17	0.45
1:Nf:497:GLY:O	1:Nf:534:VAL:HA	2.17	0.45
1:Ng:211:GLN:OE1	1:Ng:329:ASN:ND2	2.50	0.45
1:Nh:654:LEU:HD23	1:Nh:654:LEU:HA	1.77	0.45
1:Nj:198:ILE:HG23	1:Nj:324:PHE:HE2	1.82	0.45
1:Nv:157:VAL:HG23	1:Nv:159:GLU:H	1.82	0.45
1:Nx:110:TYR:CD1	1:Nx:177:GLY:HA3	2.51	0.45
2:OE:1:MET:HB2	2:OE:1:MET:HE3	1.69	0.45
2:OE:64:ARG:HH12	2:Oj:94:GLY:C	2.25	0.45
2:OK:14:ASP:CG	2:OK:17:ARG:HH21	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OK:142:LEU:HD23	2:Rp:21:PHE:CG	2.52	0.45
2:Oi:133:TRP:CZ3	2:Oi:135:THR:HG22	2.52	0.45
2:PG:140:LEU:HD11	2:PG:151:GLN:HG2	1.99	0.45
2:PJ:19:ASN:OD1	2:PJ:19:ASN:N	2.34	0.45
2:PJ:24:GLU:HB2	2:PJ:114:ARG:HH12	1.82	0.45
2:PK:112:ILE:HD11	2:PK:126:GLU:OE2	2.17	0.45
2:Pk:24:GLU:HB3	2:Pk:112:ILE:HG23	1.98	0.45
2:Pn:39:THR:HG22	2:Pn:71:VAL:HG13	1.98	0.45
2:Po:140:LEU:HA	2:Po:140:LEU:HD12	1.69	0.45
2:RD:91:ILE:HG22	2:RD:107:TYR:HB3	1.99	0.45
2:RF:57:LYS:HB3	2:RF:57:LYS:HE2	1.72	0.45
2:RI:37:LYS:NZ	2:RI:152:THR:OG1	2.50	0.45
2:Rk:121:LYS:HE2	2:Rk:121:LYS:HB3	1.70	0.45
2:Rn:1:MET:HB2	2:Rn:1:MET:HE3	1.62	0.45
2:Rs:19:ASN:OD1	2:Rs:19:ASN:N	2.31	0.45
1:K0:40:GLN:H	1:K0:81:VAL:HG23	1.82	0.45
1:K0:393:VAL:HG12	1:K0:405:VAL:HG11	1.99	0.45
1:K1:576:ASN:ND2	1:K1:618:ILE:HG12	2.32	0.45
1:K3:269:PHE:CE2	1:K3:280:ALA:HB1	2.52	0.45
1:K6:41:ILE:HD11	1:K6:361:PHE:HB3	1.98	0.45
1:K6:105:THR:HB	1:K6:181:VAL:N	2.32	0.45
1:K6:536:TYR:HD1	1:K6:536:TYR:HA	1.67	0.45
1:K7:198:ILE:HG23	1:K7:324:PHE:HE2	1.81	0.45
1:K8:120:TYR:CE2	1:K8:157:VAL:HG11	2.52	0.45
1:L0:89:ALA:HA	1:L0:345:SER:O	2.17	0.45
1:L0:195:LEU:H	1:L0:195:LEU:HD23	1.82	0.45
1:L2:130:LYS:HE2	1:L2:130:LYS:HB2	1.72	0.45
1:L3:549:ASP:O	1:L3:550:ARG:NE	2.40	0.45
1:L4:362:PHE:HD1	1:L4:368:VAL:HG11	1.81	0.45
1:L5:29:LEU:O	1:L5:80:VAL:HA	2.17	0.45
1:L7:159:GLU:OE2	1:L7:166:ASN:ND2	2.50	0.45
1:L7:240:SER:OG	1:L7:243:ASP:OD1	2.35	0.45
1:L7:510:ARG:HG2	1:L7:511:GLN:H	1.82	0.45
1:L8:571:ARG:HA	1:L8:571:ARG:HD3	1.89	0.45
1:LR:379:ALA:HA	1:LR:411:ARG:HB2	1.99	0.45
1:LU:35:TRP:O	1:LU:54:PHE:HA	2.17	0.45
1:LW:37:PRO:HG2	1:LW:42:LYS:HD3	1.98	0.45
1:LW:487:THR:HG21	1:LW:559:MET:HE3	1.98	0.45
1:LY:451:ASP:OD1	1:LY:452:GLY:N	2.45	0.45
1:La:256:PRO:HG2	1:La:339:THR:N	2.30	0.45
1:Ld:101:TYR:OH	1:Ld:216:LYS:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ld:176:SER:O	1:Ld:176:SER:OG	2.35	0.45
1:Ld:637:TYR:O	1:Le:622:GLU:HA	2.16	0.45
1:Lw:110:TYR:CE1	1:Lw:171:ILE:HD12	2.52	0.45
1:Lw:239:VAL:HG11	1:Lw:265:ALA:HB2	1.99	0.45
1:Lx:135:ASP:OD1	1:Lx:136:ALA:N	2.50	0.45
1:Lz:104:SER:HB2	1:Lz:181:VAL:HB	1.98	0.45
1:M2:413:THR:OG1	1:M2:425:ASN:HB3	2.17	0.45
1:M2:488:TRP:HB2	1:M2:556:LEU:HD12	1.97	0.45
1:M2:642:PHE:HE1	1:M3:564:ILE:HD11	1.81	0.45
1:M7:346:SER:O	1:M7:350:VAL:HG23	2.17	0.45
1:M9:410:PRO:O	1:M9:413:THR:HG22	2.16	0.45
1:MX:400:ARG:HD3	1:MX:403:CYS:SG	2.57	0.45
1:MY:378:CYS:HB3	1:MY:390:GLN:NE2	2.32	0.45
1:MY:566:ARG:O	1:MY:569:LYS:HG2	2.16	0.45
1:MZ:559:MET:HE2	1:MZ:559:MET:HB2	1.76	0.45
1:Ma:379:ALA:O	1:Ma:381:GLU:N	2.44	0.45
1:Mb:82:ARG:NH2	1:Mb:227:PRO:O	2.45	0.45
1:Mb:202:GLU:OE1	1:Mb:203:ALA:N	2.50	0.45
1:Md:569:LYS:HE2	1:Md:569:LYS:HB3	1.59	0.45
1:Me:485:SER:OG	1:Me:486:GLN:N	2.50	0.45
1:Mv:289:ILE:H	1:Mv:289:ILE:HG12	1.53	0.45
1:Mw:423:VAL:HG13	1:Mw:517:LEU:HD13	1.98	0.45
1:Mw:470:LEU:HD12	1:Mw:470:LEU:HA	1.72	0.45
1:Mz:215:LYS:HB2	1:Mz:329:ASN:ND2	2.32	0.45
1:Mz:488:TRP:O	1:Mz:552:ASN:ND2	2.50	0.45
1:NW:299:ARG:H	1:NW:299:ARG:HG2	1.57	0.45
1:NZ:118:VAL:HG22	1:NZ:169:ALA:HB2	1.98	0.45
1:Na:400:ARG:HD3	1:Na:403:CYS:SG	2.57	0.45
1:Nb:400:ARG:HD3	1:Nb:403:CYS:SG	2.57	0.45
1:Nb:416:GLY:H	1:Nb:417:ILE:HD13	1.81	0.45
1:Nb:548:PHE:HA	1:Nb:553:VAL:HG13	1.98	0.45
1:Nd:646:ALA:O	1:Nd:647:THR:OG1	2.26	0.45
1:Ne:96:ALA:HA	1:Ne:188:ILE:HG22	1.99	0.45
1:Nf:612:ASN:HB3	1:Nf:624:VAL:HG23	1.98	0.45
1:Nf:614:THR:C	1:Nf:616:SER:H	2.23	0.45
1:Ni:154:ALA:HA	1:Ni:157:VAL:HG22	1.99	0.45
1:Nv:104:SER:N	1:Nv:181:VAL:O	2.50	0.45
1:Nv:539:LYS:HD3	1:Nv:550:ARG:HH21	1.81	0.45
2:OL:25:ILE:HG13	2:OL:32:PHE:CE2	2.52	0.45
2:OM:99:ILE:O	2:Rs:120:ALA:HB2	2.16	0.45
2:OO:103:LYS:O	2:OO:106:GLU:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Oo:132:LEU:HG	2:Oo:157:LEU:HD22	1.99	0.45
2:PC:51:VAL:O	2:PC:57:LYS:HB2	2.16	0.45
2:PF:10:PHE:HD2	2:PF:13:GLY:HA2	1.82	0.45
2:PF:35:GLN:OE1	2:PF:81:ALA:HB2	2.17	0.45
2:PH:55:ASN:HA	2:Pn:19:ASN:HD22	1.82	0.45
2:PK:41:LEU:HD22	2:Pp:140:LEU:HD23	1.99	0.45
2:PK:137:VAL:HB	2:PK:155:VAL:HG13	1.98	0.45
2:Pj:64:ARG:HB2	2:RE:93:ALA:HB1	1.99	0.45
2:Pl:57:LYS:HE2	2:Pl:57:LYS:HB3	1.65	0.45
2:Po:74:MET:HG2	2:Po:150:ILE:HD11	2.00	0.45
2:Pp:112:ILE:HD11	2:Pp:126:GLU:OE2	2.17	0.45
2:Pr:124:THR:O	2:Pr:125:LYS:HB3	2.17	0.45
2:RG:82:ARG:NH1	2:RG:138:GLY:HA2	2.32	0.45
2:Rl:8:ARG:HE	2:Rl:8:ARG:HB2	1.53	0.45
1:K1:35:TRP:O	1:K1:54:PHE:HA	2.17	0.44
1:K1:79:ARG:HD2	1:K1:370:VAL:HG13	1.99	0.44
1:K1:607:VAL:O	1:K1:612:ASN:ND2	2.50	0.44
1:K3:296:SER:O	1:K3:311:ILE:HG13	2.17	0.44
1:K4:400:ARG:HD3	1:K4:403:CYS:SG	2.57	0.44
1:K6:538:ASP:N	1:K6:538:ASP:OD1	2.48	0.44
1:K8:23:SER:O	1:K8:76:ASN:HB2	2.17	0.44
1:K8:417:ILE:HD13	1:K8:417:ILE:H	1.82	0.44
1:K8:455:LYS:HD3	1:K8:502:VAL:HG22	1.98	0.44
1:K9:613:ASN:HA	1:K9:617:VAL:CG1	2.47	0.44
1:L1:456:TYR:HD1	1:L1:456:TYR:HA	1.70	0.44
1:L2:39:PHE:HE1	1:L2:86:ARG:HD2	1.81	0.44
1:L2:344:LEU:HD22	1:L2:344:LEU:HA	1.84	0.44
1:L2:556:LEU:HD23	1:L2:560:LEU:HD13	1.99	0.44
1:L5:74:TYR:CD1	1:L5:476:GLY:HA3	2.52	0.44
1:L5:133:GLU:OE1	1:L5:141:LYS:HB2	2.16	0.44
1:L5:572:LEU:HD12	1:L5:572:LEU:HA	1.73	0.44
1:L9:118:VAL:HB	1:L9:126:GLU:HB3	1.98	0.44
1:L9:252:LEU:HD12	1:L9:337:ILE:HD11	1.98	0.44
1:LQ:400:ARG:NH1	1:LQ:403:CYS:SG	2.90	0.44
1:LQ:414:VAL:HG23	1:LQ:422:ALA:HB1	1.98	0.44
1:LQ:571:ARG:NH2	1:LQ:587:GLU:OE1	2.45	0.44
1:LR:116:ILE:HD13	1:LR:171:ILE:HG23	1.99	0.44
1:LS:110:TYR:H	1:LS:138:GLY:HA3	1.82	0.44
1:LU:412:GLU:HA	1:LU:415:VAL:HG12	1.99	0.44
1:LV:404:LEU:HD11	1:LV:551:ILE:HG23	1.97	0.44
1:LX:417:ILE:HD13	1:LX:417:ILE:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:La:432:ALA:HB2	1:La:440:ASN:ND2	2.31	0.44
1:La:494:TYR:HE2	1:La:528:THR:HG21	1.81	0.44
1:Lc:118:VAL:HG22	1:Lc:169:ALA:HB2	1.99	0.44
1:Ld:23:SER:O	1:Ld:76:ASN:HB2	2.16	0.44
1:Le:3:LEU:HD11	1:Le:9:GLU:HB2	1.99	0.44
1:Le:115:LYS:HB3	1:Le:172:SER:HB3	1.99	0.44
1:M1:645:THR:OG1	1:M2:629:ILE:O	2.34	0.44
1:M3:57:PRO:HG3	1:M3:65:PHE:CD1	2.52	0.44
1:M3:360:ASP:OD1	1:M3:392:HIS:NE2	2.47	0.44
1:M5:107:GLY:HA3	1:M5:180:ALA:HB2	1.98	0.44
1:M5:505:LEU:HD22	1:M5:533:TYR:CD2	2.52	0.44
1:MU:312:ASP:N	1:MU:312:ASP:OD1	2.50	0.44
1:MU:635:ILE:O	1:MV:573:PHE:HA	2.16	0.44
1:MW:117:THR:HG23	1:MW:127:THR:HA	1.99	0.44
1:MX:639:THR:HB	1:MY:624:VAL:HG12	1.98	0.44
1:Mb:253:PRO:HG2	1:Mb:255:TYR:CE1	2.51	0.44
1:Mc:654:LEU:HD23	1:Mc:654:LEU:HA	1.82	0.44
1:Md:37:PRO:O	1:Md:82:ARG:HD3	2.17	0.44
1:Md:512:ALA:O	1:Md:516:ARG:HG3	2.17	0.44
1:Me:613:ASN:HA	1:Me:617:VAL:HG11	1.99	0.44
1:Mv:641:ASN:HB2	1:Mw:626:THR:HG23	1.98	0.44
1:NV:375:ALA:HB3	1:NV:407:CYS:HA	1.99	0.44
1:NX:480:ARG:C	1:NX:482:ASP:H	2.25	0.44
1:Nd:559:MET:HE2	1:Nd:559:MET:HB2	1.77	0.44
1:Ne:101:TYR:OH	1:Ne:216:LYS:O	2.34	0.44
1:Ne:410:PRO:HD2	1:Ne:413:THR:HG21	1.98	0.44
1:Ng:417:ILE:HD13	1:Ng:417:ILE:H	1.82	0.44
1:Ni:635:ILE:HD13	1:Nj:623:PHE:HB2	1.98	0.44
1:Nw:23:SER:O	1:Nw:76:ASN:HB2	2.17	0.44
1:Nw:394:VAL:HG11	1:Nw:443:ILE:HD12	1.99	0.44
1:Nx:137:ASP:OD1	1:Nx:137:ASP:N	2.50	0.44
2:OD:1:MET:HE3	2:OD:1:MET:HB2	1.72	0.44
2:OJ:114:ARG:HG2	2:OJ:126:GLU:HG3	1.99	0.44
2:OO:49:ILE:HG23	2:OO:60:VAL:HG13	1.98	0.44
2:Oi:82:ARG:HH12	2:Oi:138:GLY:HA2	1.81	0.44
2:Oj:83:GLN:HA	2:Oj:86:VAL:HG22	1.98	0.44
2:Om:117:ALA:HB2	2:Om:124:THR:HG23	1.97	0.44
2:Op:125:LYS:HG2	2:PK:79:HIS:CG	2.52	0.44
2:PK:41:LEU:HB2	2:Pp:140:LEU:HB3	1.98	0.44
2:Ph:25:ILE:HG13	2:Ph:32:PHE:CE2	2.52	0.44
2:Pi:15:PHE:CE1	2:RD:74:MET:HE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Po:41:LEU:HD12	2:Po:41:LEU:HA	1.80	0.44
2:Pp:131:GLY:O	2:Pp:159:LEU:HA	2.16	0.44
2:Ps:80:ASP:O	2:Ps:84:LYS:HG3	2.17	0.44
2:RI:41:LEU:HG	2:RI:127:ILE:HD13	1.99	0.44
2:RI:143:ASP:OD1	2:RI:144:TRP:N	2.50	0.44
2:RJ:95:GLN:H	2:RJ:95:GLN:HG3	1.58	0.44
2:RO:112:ILE:HD11	2:RO:126:GLU:OE2	2.17	0.44
2:RS:49:ILE:O	2:RS:49:ILE:HG12	2.16	0.44
2:RS:54:MET:O	2:RS:56:ARG:N	2.50	0.44
2:Rq:94:GLY:HA3	2:Rq:100:THR:OG1	2.18	0.44
2:Rr:23:VAL:HG11	2:Rr:39:THR:HG21	1.99	0.44
1:K0:256:PRO:HG2	1:K0:339:THR:H	1.82	0.44
1:K0:630:GLN:NE2	1:K9:647:THR:O	2.49	0.44
1:K1:351:THR:HG23	1:K1:354:ASP:H	1.81	0.44
1:K1:484:VAL:HG13	1:K1:485:SER:H	1.82	0.44
1:K2:467:TRP:CZ3	1:K3:199:GLU:HB2	2.50	0.44
1:K4:215:LYS:HB2	1:K4:329:ASN:ND2	2.33	0.44
1:K5:253:PRO:HG2	1:K5:255:TYR:CE2	2.51	0.44
1:K9:438:ASP:OD1	1:K9:438:ASP:N	2.40	0.44
1:L0:222:VAL:HG11	1:L0:236:ILE:HG12	2.00	0.44
1:L1:614:THR:C	1:L1:616:SER:H	2.25	0.44
1:L7:82:ARG:NH2	1:L7:227:PRO:O	2.41	0.44
1:L8:41:ILE:HD11	1:L8:361:PHE:HB3	2.00	0.44
1:L9:379:ALA:HA	1:L9:411:ARG:HB2	1.99	0.44
1:LR:148:ALA:O	1:LR:151:ILE:HG13	2.17	0.44
1:LU:34:GLN:NE2	1:LU:56:GLN:O	2.50	0.44
1:LV:83:ALA:HB2	1:LV:358:ALA:HB2	2.00	0.44
1:LV:101:TYR:O	1:LV:216:LYS:NZ	2.39	0.44
1:LY:642:PHE:CZ	1:LZ:564:ILE:HD11	2.52	0.44
1:LZ:22:ASN:OD1	1:LZ:22:ASN:N	2.47	0.44
1:LZ:400:ARG:NH1	1:LZ:402:ASP:OD1	2.50	0.44
1:LZ:559:MET:HB2	1:LZ:559:MET:HE2	1.67	0.44
1:La:651:PHE:CD2	1:La:654:LEU:HD12	2.53	0.44
1:Lb:151:ILE:O	1:Lb:155:LYS:HG2	2.17	0.44
1:Ld:100:GLU:OE2	1:Ld:186:LYS:HG3	2.17	0.44
1:Le:612:ASN:HB3	1:Le:624:VAL:HG23	1.98	0.44
1:Lv:412:GLU:H	1:Lv:412:GLU:CD	2.25	0.44
1:M0:221:GLY:O	1:M0:325:ALA:HA	2.17	0.44
1:M1:105:THR:HB	1:M1:181:VAL:N	2.29	0.44
1:M2:32:LYS:HE2	1:M2:350:VAL:HB	1.99	0.44
1:M2:44:VAL:HG11	1:M2:50:LEU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M2:299:ARG:HD2	1:M2:310:TYR:CE1	2.52	0.44
1:M3:221:GLY:O	1:M3:325:ALA:HA	2.17	0.44
1:M5:107:GLY:HA3	1:M5:110:TYR:HE2	1.83	0.44
1:M5:572:LEU:O	1:M5:573:PHE:C	2.60	0.44
1:M7:110:TYR:CZ	1:M7:171:ILE:HD12	2.52	0.44
1:M7:332:GLU:H	1:M7:332:GLU:CD	2.24	0.44
1:M8:115:LYS:HD2	1:M8:115:LYS:HA	1.77	0.44
1:M9:134:VAL:HA	1:M9:140:ILE:HA	1.99	0.44
1:MS:332:GLU:CD	1:MS:332:GLU:H	2.25	0.44
1:MS:394:VAL:HG11	1:MS:443:ILE:HD12	1.99	0.44
1:MS:432:ALA:HB2	1:MS:442:ASN:HB2	1.98	0.44
1:MU:110:TYR:H	1:MU:138:GLY:HA2	1.82	0.44
1:MX:352:ALA:HB2	1:MX:385:THR:HG22	1.99	0.44
1:MY:455:LYS:NZ	1:MY:457:GLN:OE1	2.50	0.44
1:Mb:444:SER:OG	1:Mb:543:SER:OG	2.17	0.44
1:Mc:505:LEU:HD22	1:Mc:533:TYR:CD2	2.52	0.44
1:Me:107:GLY:HA3	1:Me:180:ALA:HB2	1.98	0.44
1:Mw:298:LYS:HB2	1:Mw:298:LYS:NZ	2.32	0.44
1:Mz:117:THR:HG23	1:Mz:127:THR:HG22	2.00	0.44
1:NW:406:LEU:HA	1:NW:449:ALA:O	2.18	0.44
1:NW:601:ILE:HG12	1:NW:629:ILE:HD13	2.00	0.44
1:NX:413:THR:OG1	1:NX:425:ASN:HB3	2.17	0.44
1:NX:417:ILE:H	1:NX:417:ILE:HD13	1.81	0.44
1:Na:490:SER:OG	1:Na:538:ASP:OD2	2.20	0.44
1:Nb:11:LYS:HG2	1:Nb:13:THR:HG23	2.00	0.44
1:Nb:495:ASN:OD1	1:Nb:495:ASN:N	2.50	0.44
1:Nc:571:ARG:HD2	1:Nc:584:PHE:HB2	1.99	0.44
1:Nd:494:TYR:CE2	1:Ne:569:LYS:HD3	2.52	0.44
1:Nd:617:VAL:HG22	1:Nd:622:GLU:HB2	1.99	0.44
1:Ne:351:THR:OG1	1:Ne:352:ALA:N	2.49	0.44
1:Ng:125:ILE:HD11	1:Ng:153:LYS:HZ2	1.82	0.44
1:Ng:509:THR:O	1:Ng:514:ARG:NH1	2.50	0.44
1:Ni:163:LEU:HD22	1:Ni:167:TRP:CE2	2.53	0.44
1:Nj:480:ARG:O	1:Nj:484:VAL:HG12	2.16	0.44
1:Nv:163:LEU:HD22	1:Nv:167:TRP:NE1	2.31	0.44
1:Nw:110:TYR:CE1	1:Nw:177:GLY:HA3	2.53	0.44
1:Nx:509:THR:HB	1:Nx:513:GLN:HB2	1.99	0.44
1:Nz:601:ILE:HG21	1:Nz:629:ILE:HD12	1.99	0.44
2:OC:73:VAL:HG12	2:OC:74:MET:O	2.18	0.44
2:OE:3:VAL:HG12	2:PD:97:ASN:HA	2.00	0.44
2:OF:73:VAL:HG12	2:OF:74:MET:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:43:ALA:O	2:OG:162:TRP:NE1	2.45	0.44
2:OG:88:TRP:CE2	2:OG:134:PRO:HD3	2.52	0.44
2:OJ:1:MET:HE2	2:OJ:1:MET:HB3	1.76	0.44
2:Oh:58:ILE:HD12	2:Oi:6:VAL:HG21	1.98	0.44
2:Ol:56:ARG:HG3	2:Pl:99:ILE:HG12	2.00	0.44
2:Om:143:ASP:OD1	2:Om:144:TRP:N	2.50	0.44
2:On:1:MET:HE3	2:On:1:MET:HB2	1.72	0.44
2:Os:76:ASP:OD1	2:Os:80:ASP:N	2.40	0.44
2:PF:45:ILE:HG23	2:PF:65:THR:O	2.17	0.44
2:PI:98:GLU:CD	2:PI:98:GLU:H	2.25	0.44
2:Pi:107:TYR:O	2:Pi:133:TRP:HB3	2.17	0.44
2:RH:80:ASP:O	2:RH:84:LYS:HG3	2.17	0.44
2:RI:25:ILE:C	2:RI:27:TYR:H	2.25	0.44
2:RI:108:LYS:NZ	2:RI:160:ASP:OD2	2.42	0.44
2:RK:27:TYR:CD1	2:RK:109:LYS:HE2	2.53	0.44
2:RO:91:ILE:HG22	2:RO:107:TYR:HB3	1.99	0.44
2:Rq:19:ASN:OD1	2:Rq:19:ASN:N	2.27	0.44
2:Rq:27:TYR:CE1	2:Rq:109:LYS:HE2	2.52	0.44
1:K0:296:SER:O	1:K0:311:ILE:HG13	2.17	0.44
1:K1:379:ALA:HB2	1:K1:454:TYR:CE2	2.53	0.44
1:K2:430:ARG:O	1:K2:430:ARG:HD3	2.17	0.44
1:K6:230:LEU:HD23	1:K6:230:LEU:HA	1.82	0.44
1:K6:494:TYR:CZ	1:K7:569:LYS:HD3	2.52	0.44
1:K7:30:ALA:HB2	1:K7:81:VAL:HG13	1.98	0.44
1:L0:572:LEU:O	1:L0:573:PHE:C	2.59	0.44
1:L2:151:ILE:HG22	1:L2:187:ILE:HG13	1.99	0.44
1:L3:151:ILE:O	1:L3:155:LYS:HG2	2.17	0.44
1:L3:642:PHE:CZ	1:L4:564:ILE:HD11	2.53	0.44
1:L4:151:ILE:O	1:L4:155:LYS:HG2	2.17	0.44
1:L5:160:TYR:HA	1:L5:161:PRO:HA	1.85	0.44
1:L6:269:PHE:HE2	1:L6:282:ILE:HG12	1.82	0.44
1:L6:383:LEU:HD11	1:L6:436:TYR:CE1	2.52	0.44
1:L8:494:TYR:CZ	1:L9:569:LYS:HD3	2.52	0.44
1:LR:219:ILE:H	1:LR:219:ILE:HD13	1.82	0.44
1:LX:42:LYS:HE3	1:LX:42:LYS:HB3	1.78	0.44
1:LY:560:LEU:O	1:LY:564:ILE:HG23	2.17	0.44
1:LZ:35:TRP:O	1:LZ:54:PHE:HA	2.18	0.44
1:Lb:651:PHE:CD2	1:Lb:654:LEU:HD12	2.51	0.44
1:Le:37:PRO:O	1:Le:82:ARG:HD3	2.17	0.44
1:Le:105:THR:HB	1:Le:181:VAL:H	1.83	0.44
1:Le:379:ALA:HA	1:Le:411:ARG:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lw:560:LEU:O	1:Lw:564:ILE:HG23	2.17	0.44
1:Lx:418:PRO:HD2	1:Lx:421:ARG:NH1	2.32	0.44
1:Lx:441:PHE:CE2	1:Lx:443:ILE:HD11	2.53	0.44
1:M1:109:ASN:N	1:M1:138:GLY:HA3	2.32	0.44
1:M2:206:THR:HA	1:M2:211:GLN:HE21	1.83	0.44
1:M3:601:ILE:HG23	1:M3:629:ILE:HB	1.99	0.44
1:M4:243:ASP:OD1	1:M4:335:SER:OG	2.31	0.44
1:M4:576:ASN:ND2	1:M4:618:ILE:HG12	2.33	0.44
1:M5:35:TRP:O	1:M5:54:PHE:HA	2.17	0.44
1:M6:42:LYS:HE3	1:M6:42:LYS:HB3	1.83	0.44
1:M6:221:GLY:O	1:M6:325:ALA:HA	2.17	0.44
1:MQ:642:PHE:CZ	1:MR:561:LYS:HG2	2.52	0.44
1:MS:455:LYS:HG3	1:MS:502:VAL:HG13	1.98	0.44
1:MU:90:LYS:NZ	1:MU:190:ASP:OD1	2.36	0.44
1:MV:83:ALA:HB2	1:MV:358:ALA:HB2	2.00	0.44
1:MV:379:ALA:HA	1:MV:411:ARG:HB2	2.00	0.44
1:MW:153:LYS:HA	1:MW:153:LYS:HD3	1.90	0.44
1:MW:266:LYS:HB3	1:MW:266:LYS:HE3	1.76	0.44
1:MX:571:ARG:NH1	1:MX:583:SER:OG	2.50	0.44
1:MX:601:ILE:HD12	1:MX:604:TYR:HB3	2.00	0.44
1:Mc:238:ILE:HG23	1:Mc:281:ILE:HD13	1.98	0.44
1:Mc:653:GLU:H	1:Mc:653:GLU:HG2	1.67	0.44
1:Md:505:LEU:HD13	1:Md:533:TYR:CD2	2.52	0.44
1:Mv:51:VAL:HG22	1:Mv:65:PHE:HZ	1.81	0.44
1:Mv:413:THR:OG1	1:Mv:425:ASN:HB3	2.17	0.44
1:Mv:651:PHE:O	1:Mv:654:LEU:HB2	2.16	0.44
1:Mz:198:ILE:HD11	1:Mz:225:LEU:HD11	2.00	0.44
1:NV:273:PRO:HB3	1:NV:278:GLN:HB2	1.99	0.44
1:NW:107:GLY:HA2	1:NW:179:ALA:O	2.16	0.44
1:NW:438:ASP:OD1	1:NW:438:ASP:N	2.50	0.44
1:NZ:576:ASN:ND2	1:NZ:618:ILE:HG12	2.32	0.44
1:Na:351:THR:HG23	1:Na:354:ASP:H	1.82	0.44
1:Ng:30:ALA:HA	1:Ng:81:VAL:O	2.17	0.44
1:Nv:450:ILE:HD13	1:Nv:522:ILE:HG12	1.99	0.44
1:Nz:379:ALA:HA	1:Nz:411:ARG:HB2	1.99	0.44
2:OG:99:ILE:HG12	2:RG:56:ARG:HG3	1.99	0.44
2:OG:115:GLN:HG3	2:Ol:79:HIS:CE1	2.52	0.44
2:OJ:56:ARG:NH2	2:PJ:96:GLY:O	2.41	0.44
2:Or:1:MET:HE3	2:Or:1:MET:HB2	1.63	0.44
2:PE:16:ALA:HB3	2:Pj:151:GLN:HB2	1.99	0.44
2:PE:76:ASP:OD1	2:PE:80:ASP:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PG:18:PRO:HG3	2:Pl:149:GLU:HB2	1.99	0.44
2:PK:80:ASP:O	2:PK:84:LYS:HG3	2.17	0.44
2:PM:67:ASP:OD1	2:PM:67:ASP:N	2.49	0.44
2:RE:104:PRO:O	2:RE:108:LYS:HB2	2.17	0.44
2:RN:17:ARG:HG3	2:RN:20:LEU:HD12	2.00	0.44
2:Rp:89:GLN:HG3	2:Rp:134:PRO:HG2	1.99	0.44
1:K0:118:VAL:HG22	1:K0:169:ALA:HB2	2.00	0.44
1:K0:317:LYS:NZ	1:K9:458:TYR:HE1	2.15	0.44
1:K2:10:LEU:HD13	1:Nc:561:LYS:HD2	1.99	0.44
1:K2:560:LEU:O	1:K2:564:ILE:HG12	2.17	0.44
1:K3:142:LYS:HE2	1:K3:142:LYS:HB2	1.77	0.44
1:K4:31:GLY:HA3	1:K4:64:TYR:CD1	2.52	0.44
1:K4:72:LEU:HD12	1:K4:72:LEU:HA	1.80	0.44
1:K4:379:ALA:O	1:K4:381:GLU:N	2.45	0.44
1:K5:159:GLU:HB3	1:K5:163:LEU:HA	1.98	0.44
1:K7:107:GLY:HA3	1:K7:110:TYR:HE2	1.82	0.44
1:K7:470:LEU:O	1:K7:474:ILE:HG12	2.18	0.44
1:K7:480:ARG:O	1:K7:482:ASP:N	2.50	0.44
1:K8:14:THR:HG22	1:Nh:643:VAL:HG13	1.98	0.44
1:K8:349:GLU:OE1	1:K8:349:GLU:N	2.50	0.44
1:L0:131:ILE:HD11	1:L0:171:ILE:HD13	2.00	0.44
1:L0:202:GLU:OE1	1:L0:203:ALA:N	2.50	0.44
1:L2:5:SER:OG	1:LW:515:ASP:OD1	2.28	0.44
1:L2:366:GLU:H	1:L2:366:GLU:HG3	1.62	0.44
1:L2:417:ILE:H	1:L2:417:ILE:HD13	1.83	0.44
1:L3:467:TRP:HZ3	1:L4:199:GLU:HB2	1.82	0.44
1:L4:458:TYR:OH	1:LY:652:ASP:HB3	2.18	0.44
1:L6:205:MET:HE2	1:L6:205:MET:HB3	1.85	0.44
1:L8:470:LEU:HD23	1:L8:525:VAL:HG21	2.00	0.44
1:L8:499:ILE:H	1:L8:499:ILE:HG12	1.65	0.44
1:L9:74:TYR:CD2	1:L9:476:GLY:HA3	2.52	0.44
1:L9:598:LEU:HA	1:L9:598:LEU:HD23	1.68	0.44
1:LQ:108:SER:O	1:LQ:177:GLY:HA2	2.18	0.44
1:LW:107:GLY:HA3	1:LW:180:ALA:HB2	1.99	0.44
1:LY:202:GLU:OE1	1:LY:203:ALA:N	2.51	0.44
1:LY:430:ARG:HB2	1:LY:522:ILE:HD11	1.98	0.44
1:LZ:480:ARG:C	1:LZ:482:ASP:H	2.25	0.44
1:Lb:512:ALA:O	1:Lb:516:ARG:HG3	2.18	0.44
1:Ld:121:VAL:HG13	1:Ld:166:ASN:HB3	2.00	0.44
1:Le:536:TYR:HD1	1:Le:536:TYR:HA	1.67	0.44
1:Le:560:LEU:O	1:Le:564:ILE:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lv:332:GLU:OE1	1:Lv:332:GLU:N	2.33	0.44
1:Lv:505:LEU:HD12	1:Lv:505:LEU:HA	1.70	0.44
1:Lx:614:THR:C	1:Lx:616:SER:H	2.26	0.44
1:Lz:400:ARG:HH11	1:Lz:403:CYS:HG	1.57	0.44
1:M0:90:LYS:NZ	1:M0:190:ASP:OD1	2.50	0.44
1:M2:378:CYS:HB2	1:M2:410:PRO:HA	1.99	0.44
1:M4:284:ARG:HG2	1:M4:289:ILE:HD13	1.98	0.44
1:M8:296:SER:O	1:M8:311:ILE:HG13	2.18	0.44
1:M9:107:GLY:HA3	1:M9:110:TYR:HE2	1.82	0.44
1:M9:210:PHE:O	1:M9:214:LEU:HG	2.17	0.44
1:M9:244:TYR:CZ	1:M9:266:LYS:HD2	2.51	0.44
1:MQ:116:ILE:HD11	1:MQ:131:ILE:HG13	1.99	0.44
1:MS:222:VAL:HG11	1:MS:236:ILE:HG12	1.99	0.44
1:MU:296:SER:O	1:MU:311:ILE:HG13	2.18	0.44
1:MU:389:VAL:O	1:MU:393:VAL:HG23	2.18	0.44
1:MZ:423:VAL:HG13	1:MZ:517:LEU:HD13	2.00	0.44
1:MZ:453:ASN:HB3	1:MZ:507:ILE:HG12	1.98	0.44
1:Ma:22:ASN:N	1:Ma:22:ASN:OD1	2.50	0.44
1:Ma:459:ASP:HB2	1:Ma:466:ARG:HD2	2.00	0.44
1:Md:107:GLY:HA3	1:Md:110:TYR:HE2	1.81	0.44
1:Md:438:ASP:N	1:Md:438:ASP:OD1	2.50	0.44
1:Me:195:LEU:H	1:Me:195:LEU:HG	1.68	0.44
1:Mv:39:PHE:HB3	1:Mv:361:PHE:CE1	2.53	0.44
1:Mv:97:GLY:O	1:Mv:147:THR:OG1	2.29	0.44
1:Mw:456:TYR:HB3	1:Mw:503:ILE:HG23	1.99	0.44
1:Mz:213:ASN:O	1:Mz:217:TYR:HD2	2.00	0.44
1:NV:253:PRO:HG2	1:NV:255:TYR:CE1	2.50	0.44
1:NW:494:TYR:CZ	1:NX:569:LYS:HD3	2.51	0.44
1:NX:650:ASP:C	1:NX:652:ASP:H	2.25	0.44
1:NZ:114:ASP:N	1:NZ:114:ASP:OD1	2.48	0.44
1:Nb:373:PHE:HB2	1:Nb:405:VAL:HG22	1.99	0.44
1:Nb:494:TYR:CZ	1:Nc:569:LYS:HD3	2.52	0.44
1:Nd:359:TRP:HZ3	1:Nd:373:PHE:HD2	1.66	0.44
1:Nh:29:LEU:O	1:Nh:80:VAL:HA	2.18	0.44
1:Ni:235:GLU:OE2	1:Ni:261:ARG:NH2	2.34	0.44
1:Nj:549:ASP:O	1:Nj:550:ARG:NE	2.41	0.44
1:Nx:229:GLU:OE2	1:Nx:345:SER:N	2.31	0.44
1:Nx:413:THR:OG1	1:Nx:425:ASN:HB3	2.17	0.44
2:OD:25:ILE:C	2:OD:27:TYR:H	2.26	0.44
2:OG:41:LEU:HB2	2:Ol:140:LEU:HB3	1.99	0.44
2:OJ:91:ILE:HG22	2:OJ:107:TYR:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Oq:43:ALA:O	2:Oq:162:TRP:NE1	2.50	0.44
2:Oq:56:ARG:HB3	2:Oq:56:ARG:NH1	2.32	0.44
2:Ot:41:LEU:HB2	2:PO:140:LEU:HB3	2.00	0.44
2:PC:87:ASP:O	2:PC:91:ILE:HG13	2.17	0.44
2:PH:114:ARG:HD2	2:PH:123:VAL:HG11	1.99	0.44
2:Ph:94:GLY:HA3	2:Ph:100:THR:HG1	1.82	0.44
2:Pj:73:VAL:HG12	2:Pj:74:MET:O	2.17	0.44
2:Pl:27:TYR:CE1	2:Pl:109:LYS:HE2	2.52	0.44
2:Pp:41:LEU:HG	2:Pp:127:ILE:HD13	1.99	0.44
2:Pr:1:MET:HE3	2:Pr:1:MET:HB2	1.66	0.44
2:Pr:49:ILE:O	2:Pr:49:ILE:HG12	2.16	0.44
2:Pr:125:LYS:HD3	2:Pr:126:GLU:H	1.82	0.44
2:RD:64:ARG:HH11	2:RS:95:GLN:HG3	1.82	0.44
2:RD:120:ALA:HB2	2:RR:99:ILE:O	2.18	0.44
2:RK:91:ILE:HG22	2:RK:107:TYR:HB3	1.99	0.44
2:RS:27:TYR:CE1	2:RS:109:LYS:HE2	2.53	0.44
2:Rm:83:GLN:HA	2:Rm:86:VAL:HG22	1.99	0.44
2:Rq:69:TRP:HB2	2:Rq:159:LEU:HD23	1.99	0.44
1:K0:4:LEU:HD13	1:Nj:519:GLN:HE21	1.81	0.44
1:K0:412:GLU:HA	1:K0:415:VAL:HG12	2.00	0.44
1:K3:563:ASN:ND2	1:K3:591:TYR:OH	2.29	0.44
1:K5:298:LYS:HB2	1:K5:298:LYS:NZ	2.33	0.44
1:K7:496:ARG:NH2	1:K8:574:GLU:OE1	2.46	0.44
1:K9:244:TYR:CZ	1:K9:266:LYS:HD2	2.53	0.44
1:L0:142:LYS:HE2	1:L0:142:LYS:HB2	1.82	0.44
1:L0:629:ILE:O	1:L9:645:THR:HB	2.17	0.44
1:L3:142:LYS:HB2	1:L3:142:LYS:HE2	1.74	0.44
1:L4:511:GLN:NE2	1:L4:511:GLN:O	2.47	0.44
1:L5:26:THR:HB	1:L5:77:ASP:HB3	2.00	0.44
1:L5:253:PRO:HG2	1:L5:255:TYR:CE1	2.53	0.44
1:L6:62:ALA:O	1:L6:66:MET:HB2	2.17	0.44
1:L6:455:LYS:HG3	1:L6:502:VAL:HG13	2.00	0.44
1:L7:35:TRP:HB2	1:L7:230:LEU:HD12	2.00	0.44
1:L9:117:THR:HG23	1:L9:127:THR:HG22	2.00	0.44
1:L9:159:GLU:OE2	1:L9:166:ASN:ND2	2.51	0.44
1:LQ:120:TYR:CE1	1:LQ:166:ASN:HB2	2.53	0.44
1:LR:94:PRO:HD3	1:LR:222:VAL:O	2.17	0.44
1:LR:213:ASN:O	1:LR:217:TYR:HD2	2.01	0.44
1:LW:35:TRP:O	1:LW:54:PHE:HA	2.18	0.44
1:LX:251:LEU:HB3	1:LX:260:THR:HB	1.99	0.44
1:LX:298:LYS:HB2	1:LX:298:LYS:NZ	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LY:273:PRO:HB3	1:LY:278:GLN:O	2.18	0.44
1:LY:379:ALA:O	1:LY:381:GLU:N	2.46	0.44
1:Lb:37:PRO:O	1:Lb:82:ARG:HD3	2.18	0.44
1:Lb:467:TRP:CZ3	1:Lc:199:GLU:HB2	2.52	0.44
1:Lc:451:ASP:OD2	1:Lc:470:LEU:HB3	2.16	0.44
1:Lv:389:VAL:O	1:Lv:393:VAL:HG23	2.17	0.44
1:Lw:470:LEU:HD12	1:Lw:470:LEU:HA	1.82	0.44
1:Lw:534:VAL:HG23	1:Lw:535:LEU:O	2.18	0.44
1:Lz:66:MET:HE1	1:Lz:459:ASP:OD2	2.17	0.44
1:M0:49:ASP:OD1	1:M0:49:ASP:N	2.30	0.44
1:M0:298:LYS:NZ	1:M0:299:ARG:O	2.51	0.44
1:M1:564:ILE:HD11	1:Mz:642:PHE:HE2	1.83	0.44
1:M5:453:ASN:OD1	1:M5:505:LEU:HG	2.18	0.44
1:M6:406:LEU:HD22	1:M6:474:ILE:HG13	1.98	0.44
1:MQ:526:THR:HG23	1:MQ:534:VAL:HG23	1.98	0.44
1:MR:470:LEU:HD12	1:MR:470:LEU:HA	1.72	0.44
1:MU:505:LEU:HD21	1:MU:525:VAL:HG12	1.99	0.44
1:MV:269:PHE:CZ	1:MV:292:SER:HB2	2.51	0.44
1:MZ:332:GLU:H	1:MZ:332:GLU:CD	2.26	0.44
1:MZ:379:ALA:O	1:MZ:381:GLU:N	2.43	0.44
1:MZ:417:ILE:HD13	1:MZ:417:ILE:H	1.82	0.44
1:Ma:296:SER:O	1:Ma:311:ILE:HG13	2.17	0.44
1:Ma:654:LEU:HD23	1:Ma:654:LEU:HA	1.61	0.44
1:Me:602:TYR:HB2	1:Me:630:GLN:HG2	1.98	0.44
1:Mv:527:GLY:HA2	1:Mv:533:TYR:HD2	1.82	0.44
1:Mv:642:PHE:CE1	1:Mw:561:LYS:HG2	2.53	0.44
1:Mw:100:GLU:OE2	1:Mw:186:LYS:HG3	2.17	0.44
1:Mw:220:PRO:HG2	1:Mw:338:LEU:HD11	2.00	0.44
1:NW:157:VAL:HG23	1:NW:159:GLU:H	1.81	0.44
1:Na:400:ARG:HB3	1:Na:400:ARG:HH11	1.82	0.44
1:Nb:444:SER:OG	1:Nb:543:SER:OG	2.19	0.44
1:Nc:107:GLY:HA3	1:Nc:110:TYR:HE2	1.80	0.44
1:Nc:110:TYR:CD1	1:Nc:177:GLY:HA3	2.52	0.44
1:Nc:557:PHE:CZ	1:Nc:629:ILE:HD11	2.53	0.44
1:Nc:654:LEU:HD22	1:Nd:605:ARG:HD3	2.00	0.44
1:Ne:446:THR:HG21	1:Ne:548:PHE:HB2	1.99	0.44
1:Ng:351:THR:OG1	1:Ng:352:ALA:N	2.50	0.44
1:Nh:614:THR:C	1:Nh:616:SER:H	2.26	0.44
1:Ni:451:ASP:OD2	1:Ni:470:LEU:HB3	2.17	0.44
1:Nj:538:ASP:OD1	1:Nj:538:ASP:N	2.50	0.44
1:Nw:538:ASP:O	1:Nw:551:ILE:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OG:28:LEU:HD21	2:OG:88:TRP:HE3	1.83	0.44
2:ON:140:LEU:HD12	2:ON:140:LEU:HA	1.70	0.44
2:Oi:61:ALA:HA	2:PD:133:TRP:CH2	2.53	0.44
2:Ol:75:ASN:HD21	2:Ol:79:HIS:CD2	2.35	0.44
2:Os:80:ASP:O	2:Os:84:LYS:HG3	2.17	0.44
2:PK:115:GLN:HE21	2:Pp:151:GLN:HE22	1.64	0.44
2:PL:85:PHE:HB3	2:PL:137:VAL:HG21	2.00	0.44
2:PM:56:ARG:HH12	2:Pr:66:PHE:HE2	1.65	0.44
2:PO:21:PHE:CD2	2:Pt:142:LEU:HD23	2.52	0.44
2:Ph:54:MET:HE2	2:Pi:1:MET:HE1	1.99	0.44
2:Pl:140:LEU:HD12	2:Pl:140:LEU:HA	1.77	0.44
2:Pr:62:GLY:O	2:Ps:118:ARG:NH2	2.50	0.44
2:Ps:104:PRO:HA	2:Ps:107:TYR:CE2	2.53	0.44
2:Ps:117:ALA:HB3	2:Ps:122:THR:HB	1.99	0.44
2:RG:82:ARG:HH12	2:RG:138:GLY:HA2	1.83	0.44
2:RS:57:LYS:HE2	2:RS:57:LYS:HB3	1.65	0.44
2:Rl:23:VAL:HG22	2:Rl:36:CYS:SG	2.57	0.44
2:Rq:140:LEU:HD12	2:Rq:140:LEU:HA	1.85	0.44
2:Rt:82:ARG:O	2:Rt:86:VAL:HG13	2.16	0.44
1:K1:134:VAL:HG12	1:K1:140:ILE:HG22	2.00	0.44
1:K2:220:PRO:HG2	1:K2:338:LEU:HD11	2.00	0.44
1:K3:383:LEU:HD22	1:K3:439:ASN:HB3	1.99	0.44
1:K7:607:VAL:O	1:K7:612:ASN:ND2	2.51	0.44
1:K8:494:TYR:CZ	1:K9:569:LYS:HD3	2.52	0.44
1:K8:614:THR:O	1:K8:616:SER:N	2.46	0.44
1:K9:278:GLN:HG2	1:K9:296:SER:HB2	2.00	0.44
1:K9:614:THR:C	1:K9:616:SER:H	2.25	0.44
1:L1:53:THR:HG1	1:L1:54:PHE:HD1	1.64	0.44
1:L4:116:ILE:HD12	1:L4:171:ILE:HG12	2.00	0.44
1:L4:130:LYS:HE2	1:L4:130:LYS:HB2	1.80	0.44
1:L5:644:ALA:C	1:L5:645:THR:HG1	2.24	0.44
1:L6:236:ILE:HG13	1:L6:283:VAL:HG22	1.99	0.44
1:LQ:39:PHE:CE1	1:LQ:86:ARG:HD2	2.50	0.44
1:LQ:509:THR:O	1:LQ:514:ARG:NH1	2.51	0.44
1:LR:41:ILE:HD11	1:LR:361:PHE:HB3	2.00	0.44
1:LR:119:LYS:HG2	1:LR:124:ASP:OD2	2.18	0.44
1:LV:557:PHE:CE1	1:LV:629:ILE:HD11	2.53	0.44
1:LW:107:GLY:H	1:LW:140:ILE:HD11	1.82	0.44
1:LX:572:LEU:O	1:LX:573:PHE:C	2.60	0.44
1:La:47:GLU:OE1	1:La:461:TYR:OH	2.34	0.44
1:La:490:SER:OG	1:La:538:ASP:OD2	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lb:350:VAL:HG13	1:Lb:354:ASP:HB2	1.98	0.44
1:Ld:143:ILE:HD12	1:Ld:145:ILE:HD11	2.00	0.44
1:Le:34:GLN:NE2	1:Le:56:GLN:O	2.51	0.44
1:Lv:284:ARG:HG2	1:Lv:289:ILE:HD13	1.98	0.44
1:Lv:378:CYS:SG	1:Lv:454:TYR:OH	2.60	0.44
1:Lw:253:PRO:HG2	1:Lw:255:TYR:CE2	2.53	0.44
1:Lw:549:ASP:OD2	1:MR:271:TYR:OH	2.12	0.44
1:Lz:264:THR:OG1	1:Lz:265:ALA:N	2.51	0.44
1:M1:440:ASN:OD1	1:M1:440:ASN:N	2.41	0.44
1:M2:130:LYS:HB2	1:M2:130:LYS:HE2	1.72	0.44
1:M4:538:ASP:HB2	1:M4:551:ILE:HG13	1.99	0.44
1:M4:569:LYS:HB3	1:M4:569:LYS:HE2	1.71	0.44
1:M5:296:SER:O	1:M5:311:ILE:HG13	2.18	0.44
1:M7:8:ILE:HD11	1:Mc:569:LYS:HG3	1.98	0.44
1:M9:135:ASP:N	1:M9:139:LYS:O	2.50	0.44
1:M9:236:ILE:HD11	1:M9:323:ILE:HG21	1.98	0.44
1:M9:365:ARG:HA	1:M9:400:ARG:NH2	2.33	0.44
1:MV:70:ASN:ND2	1:MV:468:VAL:HG11	2.32	0.44
1:MX:392:HIS:O	1:MX:395:SER:OG	2.29	0.44
1:MZ:372:LEU:HD12	1:MZ:372:LEU:HA	1.80	0.44
1:MZ:451:ASP:OD2	1:MZ:470:LEU:HB3	2.18	0.44
1:Mb:44:VAL:HG11	1:Mb:50:LEU:HB2	1.99	0.44
1:Mb:275:THR:OG1	1:Mb:276:ASP:N	2.48	0.44
1:Mc:26:THR:HA	1:Mc:77:ASP:O	2.16	0.44
1:Mc:411:ARG:NH1	1:Mc:415:VAL:HG21	2.32	0.44
1:Md:40:GLN:H	1:Md:81:VAL:HG23	1.81	0.44
1:Me:119:LYS:HG2	1:Me:124:ASP:HA	1.98	0.44
1:Me:209:ASP:OD1	1:Me:209:ASP:N	2.49	0.44
1:Mw:412:GLU:H	1:Mw:412:GLU:CD	2.25	0.44
1:NV:100:GLU:OE2	1:NV:186:LYS:HG2	2.18	0.44
1:NV:644:ALA:O	1:NV:645:THR:OG1	2.36	0.44
1:NW:455:LYS:HD3	1:NW:502:VAL:HG13	1.99	0.44
1:NZ:654:LEU:HD23	1:NZ:654:LEU:HA	1.72	0.44
1:Na:115:LYS:HE2	1:Na:128:GLU:HA	2.00	0.44
1:Na:629:ILE:O	1:Na:629:ILE:HG13	2.14	0.44
1:Nb:351:THR:OG1	1:Nb:352:ALA:N	2.50	0.44
1:Nc:494:TYR:CE1	1:Nd:569:LYS:HG2	2.53	0.44
1:Nd:112:VAL:HG12	1:Nd:134:VAL:HG13	1.99	0.44
1:Nf:575:LEU:O	1:Nf:580:THR:HG21	2.18	0.44
1:Nj:228:GLY:HA2	1:Nj:345:SER:HB3	2.00	0.44
1:Nj:351:THR:HG23	1:Nj:354:ASP:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nv:110:TYR:CD1	1:Nv:177:GLY:HA3	2.53	0.44
1:Nx:379:ALA:HB2	1:Nx:454:TYR:HE2	1.82	0.44
1:Nz:251:LEU:HB3	1:Nz:260:THR:HB	2.00	0.44
2:OI:113:VAL:HG13	2:OI:127:ILE:HG12	1.99	0.44
2:OM:61:ALA:HA	2:Or:133:TRP:CH2	2.52	0.44
2:OO:106:GLU:O	2:OO:109:LYS:NZ	2.51	0.44
2:Os:82:ARG:HH12	2:Os:138:GLY:HA2	1.82	0.44
2:PF:2:PHE:HD2	2:RE:97:ASN:HB3	1.82	0.44
2:PM:27:TYR:CE1	2:PM:109:LYS:HE2	2.52	0.44
2:PN:58:ILE:HD12	2:PO:6:VAL:HG21	1.99	0.44
2:Pi:19:ASN:OD1	2:Pi:19:ASN:N	2.30	0.44
2:Pn:54:MET:HE2	2:Po:1:MET:HE1	1.99	0.44
2:Pq:1:MET:HE2	2:Pq:1:MET:HB3	1.88	0.44
2:RE:56:ARG:HB3	2:RE:56:ARG:HH11	1.82	0.44
2:RG:22:GLN:HB2	2:RG:116:TYR:HE2	1.83	0.44
2:RG:48:LYS:HB2	2:Rl:133:TRP:CZ2	2.53	0.44
2:RI:70:THR:HG22	2:RI:156:THR:HG22	1.98	0.44
2:RR:25:ILE:O	2:RR:26:SER:OG	2.28	0.44
2:Rr:46:VAL:HG22	2:Rr:64:ARG:HB2	1.99	0.44
1:K0:572:LEU:HA	1:K0:572:LEU:HD12	1.65	0.44
1:K1:26:THR:HA	1:K1:77:ASP:O	2.17	0.44
1:K1:614:THR:C	1:K1:616:SER:H	2.26	0.44
1:K1:655:THR:HB	1:LV:19:VAL:HG21	1.98	0.44
1:K2:101:TYR:OH	1:K2:216:LYS:O	2.34	0.44
1:K5:41:ILE:HD13	1:K5:81:VAL:HB	1.99	0.44
1:K8:238:ILE:HG23	1:K8:281:ILE:HD13	1.98	0.44
1:K8:569:LYS:HE2	1:K8:569:LYS:HB3	1.65	0.44
1:L1:488:TRP:HB3	1:L1:556:LEU:HD13	1.99	0.44
1:L2:35:TRP:O	1:L2:54:PHE:HA	2.18	0.44
1:L5:614:THR:C	1:L5:616:SER:H	2.26	0.44
1:L7:244:TYR:CE2	1:L7:272:GLY:HA3	2.53	0.44
1:L9:119:LYS:HE3	1:L9:122:SER:HA	1.99	0.44
1:L9:549:ASP:OD2	1:Md:271:TYR:OH	2.29	0.44
1:LQ:116:ILE:HD13	1:LQ:171:ILE:HG23	2.00	0.44
1:LQ:373:PHE:O	1:LQ:406:LEU:HD12	2.18	0.44
1:LQ:650:ASP:C	1:LQ:652:ASP:H	2.25	0.44
1:LR:41:ILE:HD13	1:LR:81:VAL:HB	1.99	0.44
1:LS:107:GLY:HA2	1:LS:179:ALA:O	2.18	0.44
1:LU:28:ALA:HB2	1:LU:370:VAL:HG21	2.00	0.44
1:LU:269:PHE:CZ	1:LU:292:SER:HB2	2.53	0.44
1:LV:440:ASN:OD1	1:LV:440:ASN:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LX:159:GLU:HB3	1:LX:163:LEU:HA	1.99	0.44
1:LX:365:ARG:HA	1:LX:400:ARG:NH2	2.32	0.44
1:LY:32:LYS:HE2	1:LY:350:VAL:HB	2.00	0.44
1:La:103:ILE:HD13	1:La:182:ILE:HG22	1.99	0.44
1:La:642:PHE:HE1	1:Lb:564:ILE:HD11	1.81	0.44
1:La:646:ALA:N	1:La:650:ASP:OD2	2.50	0.44
1:Lc:70:ASN:OD1	1:Lc:457:GLN:NE2	2.50	0.44
1:Lc:484:VAL:HG13	1:Lc:485:SER:H	1.82	0.44
1:Lv:209:ASP:OD1	1:Lv:209:ASP:N	2.51	0.44
1:Lw:373:PHE:HB2	1:Lw:405:VAL:HG22	1.99	0.44
1:Lx:57:PRO:HB3	1:Lx:62:ALA:HA	1.99	0.44
1:Lx:488:TRP:HB3	1:Lx:556:LEU:HB2	1.98	0.44
1:Lz:654:LEU:HD23	1:Lz:654:LEU:HA	1.71	0.44
1:M4:205:MET:HE2	1:M4:205:MET:HB3	1.82	0.44
1:M5:19:VAL:HG21	1:MZ:655:THR:HB	2.00	0.44
1:M8:511:GLN:OE1	1:Nh:5:SER:OG	2.33	0.44
1:MQ:601:ILE:HG21	1:MQ:629:ILE:HB	1.99	0.44
1:MU:160:TYR:CE2	1:MU:161:PRO:HB3	2.53	0.44
1:MX:211:GLN:OE1	1:MX:329:ASN:ND2	2.51	0.44
1:Mc:76:ASN:HD22	1:Mc:76:ASN:C	2.21	0.44
1:Mc:617:VAL:HG22	1:Mc:622:GLU:HB2	1.99	0.44
1:Md:115:LYS:HD2	1:Md:115:LYS:HA	1.79	0.44
1:Md:213:ASN:O	1:Md:217:TYR:HD2	2.00	0.44
1:Md:400:ARG:HD3	1:Md:403:CYS:SG	2.58	0.44
1:Md:417:ILE:H	1:Md:417:ILE:HD13	1.83	0.44
1:Me:57:PRO:HB3	1:Me:65:PHE:HB3	2.00	0.44
1:Mx:159:GLU:OE2	1:Mx:166:ASN:ND2	2.50	0.44
1:Mx:654:LEU:HD23	1:Mx:654:LEU:HA	1.83	0.44
1:NX:101:TYR:OH	1:NX:216:LYS:O	2.36	0.44
1:NZ:365:ARG:HA	1:NZ:400:ARG:CZ	2.47	0.44
1:Nf:654:LEU:HD23	1:Nf:654:LEU:HA	1.70	0.44
1:Ng:108:SER:OG	1:Ng:137:ASP:OD2	2.35	0.44
1:Ni:253:PRO:HG2	1:Ni:255:TYR:HE1	1.82	0.44
1:Nj:368:VAL:HG12	1:Nj:370:VAL:HG22	1.98	0.44
1:Nv:39:PHE:HB3	1:Nv:361:PHE:CE1	2.52	0.44
1:Nw:161:PRO:O	1:Nw:186:LYS:HB2	2.18	0.44
1:Nw:572:LEU:O	1:Nw:574:GLU:HB2	2.17	0.44
1:Nx:401:GLN:O	1:Nx:561:LYS:HE3	2.18	0.44
2:OE:41:LEU:HG	2:OE:127:ILE:HD13	1.99	0.44
2:OH:61:ALA:HA	2:Om:133:TRP:CH2	2.53	0.44
2:OJ:103:LYS:O	2:OJ:106:GLU:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OJ:125:LYS:HG2	2:Oo:79:HIS:ND1	2.33	0.44
2:OM:54:MET:HE3	2:OM:54:MET:HB3	1.80	0.44
2:Ok:41:LEU:HG	2:Ok:127:ILE:HD13	1.99	0.44
2:Ol:104:PRO:HB3	2:Ol:108:LYS:HD2	1.99	0.44
2:On:69:TRP:HB2	2:On:159:LEU:HD23	2.00	0.44
2:Op:51:VAL:HG11	2:PL:150:ILE:HD12	1.99	0.44
2:Oq:61:ALA:HA	2:PL:133:TRP:CH2	2.53	0.44
2:Os:21:PHE:CD2	2:PN:142:LEU:HD23	2.53	0.44
2:Ot:25:ILE:C	2:Ot:27:TYR:H	2.26	0.44
2:Ot:83:GLN:HA	2:Ot:86:VAL:HG22	1.99	0.44
2:PJ:41:LEU:HD12	2:PJ:41:LEU:HA	1.76	0.44
2:PL:37:LYS:NZ	2:PL:152:THR:OG1	2.49	0.44
2:Ph:25:ILE:HG13	2:Ph:32:PHE:HE2	1.82	0.44
2:RD:104:PRO:HA	2:RD:107:TYR:CE2	2.53	0.44
2:RF:35:GLN:OE1	2:RF:81:ALA:HB2	2.17	0.44
2:RG:58:ILE:HD12	2:RH:6:VAL:HG21	2.00	0.44
2:RO:1:MET:HB2	2:RO:1:MET:HE3	1.75	0.44
2:RS:53:PHE:CG	2:RT:6:VAL:HG13	2.53	0.44
2:Ro:136:ASN:HD22	2:Ro:136:ASN:C	2.26	0.44
2:Rr:125:LYS:HD3	2:Rr:126:GLU:H	1.83	0.44
1:K0:332:GLU:CD	1:K0:332:GLU:H	2.24	0.44
1:K1:252:LEU:HD22	1:K1:335:SER:O	2.18	0.44
1:K2:90:LYS:HB2	1:K2:344:LEU:H	1.83	0.44
1:K2:462:ASN:HB2	1:K2:464:VAL:HG22	1.99	0.44
1:K3:576:ASN:ND2	1:K3:618:ILE:HG12	2.33	0.44
1:K4:563:ASN:ND2	1:K4:591:TYR:OH	2.39	0.44
1:K5:494:TYR:CZ	1:K6:569:LYS:HD3	2.53	0.44
1:K7:429:TRP:CZ2	1:K7:441:PHE:HB2	2.53	0.44
1:K8:312:ASP:OD1	1:K8:327:ALA:N	2.42	0.44
1:L0:456:TYR:HB3	1:L0:504:LYS:HB3	1.99	0.44
1:L4:457:GLN:HG2	1:L4:458:TYR:H	1.83	0.44
1:L4:564:ILE:HD12	1:L4:627:PHE:CZ	2.52	0.44
1:L8:11:LYS:O	1:Lc:641:ASN:HA	2.18	0.44
1:L9:455:LYS:HZ2	1:L9:457:GLN:HB2	1.83	0.44
1:LQ:109:ASN:H	1:LQ:137:ASP:HB2	1.83	0.44
1:LY:404:LEU:HD22	1:LY:404:LEU:HA	1.87	0.44
1:LY:619:ASP:OD1	1:LY:619:ASP:N	2.50	0.44
1:La:151:ILE:HG22	1:La:187:ILE:HG13	2.00	0.44
1:Ld:107:GLY:HA2	1:Ld:179:ALA:O	2.17	0.44
1:Ld:512:ALA:O	1:Ld:516:ARG:HG3	2.17	0.44
1:Lx:427:VAL:O	1:Lx:431:THR:OG1	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M1:221:GLY:O	1:M1:325:ALA:HA	2.17	0.44
1:M5:650:ASP:C	1:M5:652:ASP:H	2.25	0.44
1:M9:264:THR:O	1:M9:266:LYS:N	2.51	0.44
1:MQ:126:GLU:OE2	1:MQ:128:GLU:HB2	2.17	0.44
1:MV:440:ASN:OD1	1:MV:440:ASN:N	2.51	0.44
1:MV:538:ASP:OD1	1:MV:538:ASP:N	2.49	0.44
1:MW:107:GLY:HA3	1:MW:110:TYR:CE2	2.53	0.44
1:MW:237:GLU:OE1	1:MW:284:ARG:NH1	2.50	0.44
1:MW:494:TYR:CZ	1:MX:569:LYS:HD3	2.53	0.44
1:MY:30:ALA:HB2	1:MY:81:VAL:HG13	2.00	0.44
1:MZ:47:GLU:OE1	1:MZ:461:TYR:OH	2.34	0.44
1:Me:427:VAL:HG13	1:Me:520:GLU:HG3	1.99	0.44
1:Mz:378:CYS:SG	1:Mz:454:TYR:OH	2.54	0.44
1:NV:37:PRO:O	1:NV:82:ARG:HD3	2.18	0.44
1:NW:28:ALA:HB2	1:NW:370:VAL:HG21	1.98	0.44
1:Nb:297:THR:HG22	1:Nb:311:ILE:HD12	2.00	0.44
1:Nd:28:ALA:HB2	1:Nd:370:VAL:HG21	1.99	0.44
1:Nd:154:ALA:HA	1:Nd:157:VAL:HG22	1.99	0.44
1:Ne:378:CYS:HB2	1:Ne:410:PRO:HA	2.00	0.44
1:Nf:456:TYR:CE1	1:Nf:465:ASN:HB3	2.53	0.44
1:Nh:496:ARG:HB2	1:Nh:496:ARG:HH11	1.83	0.44
1:Ni:362:PHE:HB3	1:Ni:373:PHE:CE1	2.53	0.44
1:Nj:198:ILE:HD11	1:Nj:225:LEU:HD11	1.99	0.44
1:Nx:121:VAL:HG13	1:Nx:166:ASN:HB3	1.99	0.44
2:OE:41:LEU:HD22	2:Oj:140:LEU:HD23	1.98	0.44
2:OE:96:GLY:HA2	2:RT:161:TYR:CD2	2.53	0.44
2:OF:133:TRP:CH2	2:Rk:61:ALA:HA	2.53	0.44
2:OG:28:LEU:HD21	2:OG:88:TRP:CE3	2.53	0.44
2:OG:69:TRP:HB2	2:OG:159:LEU:HD23	1.99	0.44
2:OH:41:LEU:HG	2:OH:127:ILE:HD13	2.00	0.44
2:OK:89:GLN:HG3	2:OK:134:PRO:HG2	2.00	0.44
2:Oh:2:PHE:HB2	2:Oh:5:ASP:OD1	2.18	0.44
2:Oh:97:ASN:HB3	2:RS:2:PHE:HB3	1.99	0.44
2:Oh:97:ASN:O	2:RS:3:VAL:N	2.43	0.44
2:Oh:112:ILE:HD11	2:Oh:126:GLU:OE2	2.18	0.44
2:Ol:82:ARG:O	2:Ol:86:VAL:HG13	2.17	0.44
2:PD:146:SER:O	2:PD:146:SER:OG	2.35	0.44
2:PM:69:TRP:CZ3	2:PM:132:LEU:HD21	2.53	0.44
2:Ph:58:ILE:HD13	2:Ph:58:ILE:H	1.82	0.44
2:Pi:113:VAL:HG13	2:Pi:127:ILE:HG12	1.99	0.44
2:Pr:82:ARG:HH12	2:Pr:138:GLY:HA2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pt:15:PHE:CD2	2:RO:150:ILE:HD11	2.53	0.44
2:RD:140:LEU:HD12	2:RD:140:LEU:HA	1.59	0.44
2:RE:41:LEU:HD22	2:RT:140:LEU:HD23	2.00	0.44
2:RM:49:ILE:HD13	2:RM:60:VAL:HG12	2.00	0.44
2:RR:45:ILE:HG23	2:RR:65:THR:O	2.18	0.44
2:RS:103:LYS:O	2:RS:106:GLU:HG2	2.18	0.44
2:Rk:46:VAL:HG22	2:Rk:64:ARG:HB3	2.00	0.44
2:Rk:82:ARG:NH1	2:Rk:138:GLY:HA2	2.33	0.44
2:Rn:69:TRP:CE3	2:Rn:157:LEU:HD13	2.53	0.44
2:Rp:73:VAL:HG12	2:Rp:74:MET:O	2.18	0.44
2:Rq:58:ILE:HD12	2:Rr:6:VAL:HG21	1.99	0.44
2:Rr:67:ASP:OD1	2:Rr:67:ASP:N	2.43	0.44
1:K3:467:TRP:HZ3	1:K4:199:GLU:HB2	1.83	0.44
1:K8:296:SER:O	1:K8:311:ILE:HG13	2.18	0.44
1:K9:33:PHE:HA	1:K9:61:THR:HG23	2.00	0.44
1:L2:617:VAL:O	1:L2:622:GLU:HB2	2.18	0.44
1:L4:401:GLN:O	1:L4:561:LYS:HE3	2.18	0.44
1:LR:654:LEU:HD23	1:LR:654:LEU:HA	1.78	0.44
1:LS:383:LEU:HD11	1:LS:436:TYR:CE1	2.53	0.44
1:LS:458:TYR:OH	1:LS:463:ASP:OD1	2.28	0.44
1:LU:110:TYR:CE1	1:LU:177:GLY:HA3	2.53	0.44
1:LU:118:VAL:HG22	1:LU:169:ALA:HB2	1.99	0.44
1:LW:30:ALA:HB3	1:LW:359:TRP:CE2	2.51	0.44
1:LW:478:CYS:O	1:LW:555:ARG:NH1	2.51	0.44
1:LY:455:LYS:HD2	1:LY:457:GLN:HB2	2.00	0.44
1:La:39:PHE:HB3	1:La:361:PHE:CE1	2.52	0.44
1:La:379:ALA:HB2	1:La:454:TYR:CE2	2.53	0.44
1:Lb:205:MET:HA	1:Lb:205:MET:HE2	2.00	0.44
1:Lb:494:TYR:OH	1:Lc:569:LYS:NZ	2.51	0.44
1:Ld:219:ILE:HD13	1:Ld:219:ILE:H	1.82	0.44
1:Le:526:THR:OG1	1:Le:527:GLY:N	2.50	0.44
1:Lw:39:PHE:HB3	1:Lw:361:PHE:CE1	2.53	0.44
1:Lx:151:ILE:O	1:Lx:155:LYS:HG2	2.18	0.44
1:Lx:423:VAL:HG21	1:Lx:513:GLN:HB3	1.98	0.44
1:Lx:451:ASP:CG	1:Lx:452:GLY:H	2.25	0.44
1:M0:213:ASN:O	1:M0:217:TYR:HD2	2.01	0.44
1:M0:310:TYR:CE2	1:M0:312:ASP:HB2	2.53	0.44
1:M0:332:GLU:CD	1:M0:332:GLU:H	2.26	0.44
1:M1:31:GLY:HA3	1:M1:64:TYR:CD1	2.53	0.44
1:M1:557:PHE:CE1	1:M1:629:ILE:HD11	2.53	0.44
1:M2:494:TYR:HE2	1:M2:528:THR:HG21	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M3:104:SER:OG	1:M3:183:THR:OG1	2.21	0.44
1:M3:654:LEU:HD22	1:M4:605:ARG:HH11	1.82	0.44
1:M4:601:ILE:HG21	1:M4:629:ILE:HB	1.99	0.44
1:M4:650:ASP:C	1:M4:652:ASP:H	2.26	0.44
1:M6:371:GLN:OE1	1:M6:562:THR:OG1	2.17	0.44
1:M6:423:VAL:HG21	1:M6:513:GLN:HB3	2.00	0.44
1:M6:480:ARG:C	1:M6:482:ASP:H	2.26	0.44
1:M7:389:VAL:O	1:M7:393:VAL:HG23	2.18	0.44
1:MQ:400:ARG:HB3	1:MQ:400:ARG:HH11	1.83	0.44
1:MR:202:GLU:OE1	1:MR:203:ALA:N	2.51	0.44
1:MS:90:LYS:HB2	1:MS:344:LEU:HB2	2.00	0.44
1:MU:642:PHE:CE2	1:MV:561:LYS:HG2	2.52	0.44
1:MW:57:PRO:HG3	1:MW:65:PHE:CD1	2.53	0.44
1:Mb:411:ARG:HG3	1:Mb:415:VAL:HG21	2.00	0.44
1:Me:376:GLY:HA3	1:Me:471:ALA:HB3	1.99	0.44
1:Mv:638:ILE:HG23	1:Mw:623:PHE:HD2	1.83	0.44
1:Mx:118:VAL:HG21	1:Mx:150:ILE:HD11	1.99	0.44
1:Mz:405:VAL:O	1:Mz:448:ALA:HA	2.17	0.44
1:Mz:505:LEU:HA	1:Mz:505:LEU:HD12	1.79	0.44
1:NV:114:ASP:OD1	1:NV:114:ASP:N	2.50	0.44
1:NZ:351:THR:HG23	1:NZ:354:ASP:H	1.82	0.44
1:Nb:379:ALA:HB2	1:Nb:469:PRO:HD3	1.99	0.44
1:Nc:119:LYS:HE3	1:Nc:122:SER:HA	1.99	0.44
1:Nf:151:ILE:O	1:Nf:155:LYS:HG2	2.18	0.44
1:Nf:172:SER:OG	1:Nf:174:SER:OG	2.30	0.44
1:Nh:575:LEU:HB3	1:Nh:577:ASN:HD22	1.82	0.44
1:Ni:107:GLY:HA3	1:Ni:110:TYR:HE2	1.82	0.44
1:Nj:219:ILE:HG22	1:Nj:255:TYR:CD2	2.53	0.44
1:Nw:16:GLN:OE1	1:Nw:460:LYS:HD3	2.18	0.44
1:Nx:26:THR:HA	1:Nx:77:ASP:O	2.17	0.44
1:Nx:108:SER:O	1:Nx:177:GLY:HA2	2.18	0.44
1:Nx:654:LEU:HA	1:Nx:654:LEU:HD23	1.79	0.44
2:OM:83:GLN:HA	2:OM:86:VAL:HG22	1.99	0.44
2:ON:58:ILE:HD12	2:OO:6:VAL:HG21	1.99	0.44
2:OO:41:LEU:HG	2:OO:127:ILE:HD13	1.99	0.44
2:Oh:161:TYR:CD1	2:PC:96:GLY:HA2	2.53	0.44
2:On:54:MET:HE3	2:PJ:20:LEU:HA	2.00	0.44
2:On:107:TYR:O	2:On:133:TRP:HB3	2.17	0.44
2:Oo:131:GLY:O	2:Oo:159:LEU:HA	2.18	0.44
2:Oq:45:ILE:HG23	2:Oq:65:THR:O	2.18	0.44
2:Or:64:ARG:HH12	2:PM:94:GLY:C	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Or:132:LEU:HA	2:Or:158:ALA:O	2.17	0.44
2:Os:56:ARG:H	2:Os:56:ARG:HG2	1.53	0.44
2:PC:112:ILE:HD11	2:PC:126:GLU:OE2	2.18	0.44
2:PK:49:ILE:HG22	2:Pq:148:ASN:HB3	2.00	0.44
2:Pj:24:GLU:OE1	2:Pj:114:ARG:NH1	2.47	0.44
2:Pk:118:ARG:HA	2:Pk:118:ARG:HD2	1.85	0.44
2:RH:23:VAL:HG13	2:RH:36:CYS:SG	2.58	0.44
2:RI:19:ASN:OD1	2:RI:19:ASN:N	2.49	0.44
2:RM:8:ARG:HE	2:RM:8:ARG:HB2	1.55	0.44
2:Rm:112:ILE:HD11	2:Rm:126:GLU:OE2	2.18	0.44
2:Rp:104:PRO:O	2:Rp:108:LYS:HB2	2.18	0.44
2:Rr:24:GLU:OE1	2:Rr:114:ARG:NH1	2.38	0.44
2:Rr:116:TYR:CE1	2:Rr:123:VAL:HG22	2.53	0.44
1:K2:596:LYS:HE2	1:K2:602:TYR:O	2.18	0.43
1:K6:137:ASP:OD1	1:K6:138:GLY:N	2.43	0.43
1:K6:378:CYS:SG	1:K6:454:TYR:OH	2.55	0.43
1:K6:480:ARG:C	1:K6:482:ASP:H	2.26	0.43
1:K7:332:GLU:OE1	1:K7:332:GLU:N	2.31	0.43
1:K7:645:THR:OG1	1:K8:629:ILE:O	2.35	0.43
1:L0:569:LYS:HG3	1:Md:8:ILE:HD13	2.00	0.43
1:L2:653:GLU:H	1:L2:653:GLU:HG2	1.67	0.43
1:L3:410:PRO:O	1:L3:413:THR:HG22	2.17	0.43
1:L5:19:VAL:HG21	1:LZ:655:THR:HB	1.98	0.43
1:L5:298:LYS:HB2	1:L5:298:LYS:NZ	2.33	0.43
1:L5:453:ASN:HB2	1:L5:506:ALA:HB3	1.99	0.43
1:L6:213:ASN:O	1:L6:217:TYR:HD2	2.01	0.43
1:L6:382:SER:OG	1:L6:385:THR:HG22	2.18	0.43
1:L6:651:PHE:O	1:L6:654:LEU:HB2	2.18	0.43
1:LQ:368:VAL:HG12	1:LQ:370:VAL:HG13	2.00	0.43
1:LR:110:TYR:H	1:LR:138:GLY:CA	2.31	0.43
1:LR:642:PHE:CZ	1:LS:564:ILE:HD11	2.52	0.43
1:LS:205:MET:SD	1:LS:324:PHE:HD1	2.40	0.43
1:LS:344:LEU:HD22	1:LS:344:LEU:HA	1.72	0.43
1:LS:505:LEU:HD12	1:LS:505:LEU:HA	1.82	0.43
1:LS:575:LEU:HB3	1:LS:577:ASN:HD22	1.83	0.43
1:LU:131:ILE:HD13	1:LU:140:ILE:HG21	1.99	0.43
1:LU:246:LYS:HB2	1:LU:250:ALA:HB2	1.99	0.43
1:LV:436:TYR:HB3	1:LV:439:ASN:O	2.17	0.43
1:LX:229:GLU:H	1:LX:229:GLU:HG2	1.53	0.43
1:La:614:THR:O	1:La:616:SER:N	2.49	0.43
1:Lb:444:SER:OG	1:Lb:543:SER:OG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ld:94:PRO:HD3	1:Ld:222:VAL:O	2.18	0.43
1:Le:83:ALA:HB2	1:Le:358:ALA:HB2	2.00	0.43
1:Lw:538:ASP:OD1	1:Lw:538:ASP:N	2.49	0.43
1:M3:607:VAL:O	1:M3:612:ASN:ND2	2.51	0.43
1:M4:209:ASP:OD1	1:M4:209:ASP:N	2.51	0.43
1:M4:291:GLN:HE22	1:M4:320:SER:HA	1.83	0.43
1:M5:151:ILE:O	1:M5:155:LYS:HG2	2.17	0.43
1:M6:26:THR:HA	1:M6:77:ASP:O	2.18	0.43
1:M7:400:ARG:HD3	1:M7:403:CYS:SG	2.57	0.43
1:M7:638:ILE:HG23	1:M8:623:PHE:HD1	1.83	0.43
1:M8:94:PRO:HD3	1:M8:222:VAL:O	2.18	0.43
1:MR:238:ILE:HG21	1:MR:330:TRP:HZ2	1.84	0.43
1:MX:137:ASP:OD1	1:MX:137:ASP:N	2.48	0.43
1:MY:415:VAL:HG13	1:MY:416:GLY:N	2.33	0.43
1:MZ:91:ASN:OD1	1:MZ:91:ASN:N	2.50	0.43
1:Mb:518:TYR:CZ	1:Mb:539:LYS:HG3	2.53	0.43
1:Me:228:GLY:HA2	1:Me:345:SER:HB3	1.99	0.43
1:Mw:2:THR:HG1	1:Mw:3:LEU:H	1.63	0.43
1:Mz:253:PRO:HG2	1:Mz:255:TYR:CE1	2.53	0.43
1:NX:211:GLN:HE22	1:NX:328:GLN:HB3	1.82	0.43
1:Na:18:THR:HG22	1:Na:460:LYS:NZ	2.33	0.43
1:Nf:526:THR:OG1	1:Nf:527:GLY:N	2.50	0.43
1:Nh:332:GLU:OE1	1:Nh:332:GLU:N	2.49	0.43
1:Ni:455:LYS:HB2	1:Ni:470:LEU:HD13	1.98	0.43
1:Nx:229:GLU:H	1:Nx:229:GLU:HG2	1.42	0.43
1:Nz:72:LEU:HD12	1:Nz:72:LEU:HA	1.87	0.43
1:Nz:526:THR:OG1	1:Nz:527:GLY:N	2.51	0.43
2:OG:140:LEU:HD12	2:OG:140:LEU:HA	1.61	0.43
2:OH:22:GLN:HB2	2:OH:116:TYR:HE2	1.83	0.43
2:Oh:83:GLN:NE2	2:Oh:87:ASP:OD1	2.51	0.43
2:Oh:103:LYS:O	2:Oh:106:GLU:HG2	2.18	0.43
2:Oh:114:ARG:HG2	2:Oh:126:GLU:HG3	2.00	0.43
2:Oj:1:MET:HE3	2:Oj:1:MET:HB2	1.61	0.43
2:Oj:56:ARG:HB3	2:Oj:56:ARG:HH11	1.83	0.43
2:Ol:69:TRP:CZ3	2:Ol:132:LEU:HD21	2.53	0.43
2:Oo:49:ILE:O	2:Oo:49:ILE:HG12	2.18	0.43
2:Oo:64:ARG:HG2	2:Oo:64:ARG:HH11	1.82	0.43
2:Oo:64:ARG:NH1	2:PJ:95:GLN:HG3	2.33	0.43
2:Os:136:ASN:O	2:Os:136:ASN:ND2	2.40	0.43
2:PO:162:TRP:O	2:Pt:95:GLN:NE2	2.51	0.43
2:Pm:56:ARG:HB3	2:Pm:56:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Po:1:MET:HE3	2:Po:1:MET:HB2	1.75	0.43
2:Pq:52:GLY:HA2	2:Pq:57:LYS:HB3	2.00	0.43
2:Ps:41:LEU:HD22	2:RN:140:LEU:HD23	2.00	0.43
2:RE:37:LYS:HA	2:RT:144:TRP:CE3	2.52	0.43
2:RH:1:MET:HB2	2:RH:1:MET:HE3	1.47	0.43
2:RH:115:GLN:NE2	2:Rm:151:GLN:HE22	2.16	0.43
2:RM:37:LYS:NZ	2:RM:152:THR:OG1	2.37	0.43
1:K0:220:PRO:HG2	1:K0:338:LEU:HD11	1.99	0.43
1:K1:480:ARG:O	1:K1:484:VAL:HG12	2.17	0.43
1:K1:654:LEU:HD23	1:K1:654:LEU:HA	1.74	0.43
1:K2:39:PHE:HE1	1:K2:86:ARG:HD2	1.82	0.43
1:K2:130:LYS:HE2	1:K2:130:LYS:HB2	1.70	0.43
1:K2:299:ARG:HD2	1:K2:310:TYR:CE1	2.52	0.43
1:K2:383:LEU:HD11	1:K2:436:TYR:HD1	1.81	0.43
1:K3:378:CYS:HB2	1:K3:410:PRO:HA	2.01	0.43
1:K5:135:ASP:HB3	1:K5:139:LYS:HB2	2.00	0.43
1:K5:239:VAL:HG22	1:K5:280:ALA:HB3	2.00	0.43
1:K5:635:ILE:HG13	1:K6:574:GLU:O	2.18	0.43
1:K6:351:THR:HG23	1:K6:354:ASP:H	1.84	0.43
1:K6:526:THR:OG1	1:K7:366:GLU:OE2	2.30	0.43
1:K7:42:LYS:HE3	1:K7:42:LYS:HB3	1.84	0.43
1:K8:239:VAL:HG22	1:K8:280:ALA:HB3	2.00	0.43
1:K8:423:VAL:HG13	1:K8:517:LEU:HD13	2.00	0.43
1:L0:20:VAL:HG21	1:L0:46:ASN:HD21	1.83	0.43
1:L0:535:LEU:HD23	1:L0:536:TYR:H	1.84	0.43
1:L2:391:LYS:NZ	1:L2:440:ASN:O	2.51	0.43
1:L2:430:ARG:HG3	1:L2:522:ILE:HD11	2.00	0.43
1:L2:560:LEU:O	1:L2:564:ILE:HG12	2.17	0.43
1:L3:455:LYS:HB2	1:L3:470:LEU:HD13	2.01	0.43
1:L7:66:MET:HG2	1:L7:468:VAL:HG21	1.99	0.43
1:L7:494:TYR:HE2	1:L7:528:THR:HG21	1.83	0.43
1:L8:107:GLY:HA3	1:L8:180:ALA:HB2	2.00	0.43
1:L8:125:ILE:HD13	1:L8:125:ILE:HA	1.85	0.43
1:L8:453:ASN:HB2	1:L8:506:ALA:HB3	1.99	0.43
1:L9:135:ASP:HB3	1:L9:139:LYS:HB2	1.99	0.43
1:LQ:642:PHE:CZ	1:LR:564:ILE:HD11	2.53	0.43
1:LR:477:LEU:HD23	1:LR:535:LEU:HD12	2.00	0.43
1:LS:116:ILE:H	1:LS:116:ILE:HG12	1.63	0.43
1:LU:41:ILE:HD11	1:LU:361:PHE:HB3	1.99	0.43
1:LU:100:GLU:OE2	1:LU:186:LYS:HG3	2.18	0.43
1:LU:460:LYS:H	1:LU:460:LYS:HG3	1.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LV:36:GLY:O	1:LV:82:ARG:NH1	2.51	0.43
1:LW:480:ARG:C	1:LW:482:ASP:H	2.26	0.43
1:LX:392:HIS:O	1:LX:395:SER:OG	2.24	0.43
1:La:140:ILE:C	1:La:141:LYS:HZ3	2.25	0.43
1:La:572:LEU:O	1:La:573:PHE:C	2.60	0.43
1:Lc:392:HIS:O	1:Lc:395:SER:OG	2.26	0.43
1:Lc:538:ASP:OD1	1:Lc:538:ASP:N	2.49	0.43
1:Le:488:TRP:HB3	1:Le:556:LEU:HB2	2.00	0.43
1:Lv:390:GLN:O	1:Lv:394:VAL:HG23	2.18	0.43
1:Lv:527:GLY:HA2	1:Lv:533:TYR:HD2	1.83	0.43
1:Lx:66:MET:HG2	1:Lx:468:VAL:HG21	2.00	0.43
1:Lx:74:TYR:CD1	1:Lx:476:GLY:HA3	2.53	0.43
1:M0:98:ASN:O	1:M0:188:ILE:HG13	2.19	0.43
1:M2:23:SER:O	1:M2:76:ASN:HB2	2.18	0.43
1:M2:604:TYR:HA	1:M2:628:TYR:O	2.17	0.43
1:M4:35:TRP:O	1:M4:54:PHE:HA	2.19	0.43
1:M4:572:LEU:HD12	1:M4:572:LEU:HA	1.68	0.43
1:M6:642:PHE:CE2	1:M7:561:LYS:HG2	2.53	0.43
1:M7:233:LYS:NZ	1:M7:286:ASN:OD1	2.39	0.43
1:M7:406:LEU:HD22	1:M7:474:ILE:HG13	2.00	0.43
1:M7:430:ARG:HG3	1:M7:522:ILE:HD11	1.99	0.43
1:M8:72:LEU:HA	1:M8:72:LEU:HD13	1.63	0.43
1:M8:470:LEU:HD12	1:M8:470:LEU:HA	1.81	0.43
1:M8:572:LEU:HD12	1:M8:572:LEU:HA	1.88	0.43
1:MQ:118:VAL:HG21	1:MQ:150:ILE:HD11	1.99	0.43
1:MQ:411:ARG:HG3	1:MQ:454:TYR:HE2	1.83	0.43
1:MR:455:LYS:HB3	1:MR:470:LEU:HD13	1.99	0.43
1:MS:107:GLY:HA2	1:MS:179:ALA:O	2.17	0.43
1:MU:26:THR:HA	1:MU:77:ASP:O	2.18	0.43
1:MU:365:ARG:HA	1:MU:400:ARG:CZ	2.49	0.43
1:MU:440:ASN:OD1	1:MU:440:ASN:N	2.50	0.43
1:MU:455:LYS:HD3	1:MU:502:VAL:HG22	2.00	0.43
1:MV:107:GLY:HA3	1:MV:110:TYR:HE2	1.83	0.43
1:MX:91:ASN:ND2	1:MX:224:ALA:O	2.45	0.43
1:MX:440:ASN:N	1:MX:440:ASN:OD1	2.50	0.43
1:Md:70:ASN:HD21	1:Md:455:LYS:NZ	2.16	0.43
1:Me:451:ASP:OD2	1:Me:470:LEU:HB3	2.18	0.43
1:Mv:44:VAL:HG11	1:Mv:50:LEU:HB2	1.99	0.43
1:Mw:130:LYS:NZ	1:Mw:132:THR:HA	2.32	0.43
1:Mz:82:ARG:NH2	1:Mz:227:PRO:O	2.47	0.43
1:Mz:230:LEU:HD23	1:Mz:230:LEU:HA	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NV:264:THR:HB	1:NV:267:ALA:HB3	2.00	0.43
1:NX:535:LEU:HD23	1:NX:536:TYR:H	1.83	0.43
1:NZ:444:SER:OG	1:NZ:543:SER:OG	2.23	0.43
1:Nb:35:TRP:O	1:Nb:54:PHE:HA	2.18	0.43
1:Nc:641:ASN:HB2	1:Nd:626:THR:HG23	2.00	0.43
1:Nd:438:ASP:OD1	1:Nd:438:ASP:N	2.42	0.43
1:Nf:236:ILE:HG13	1:Nf:283:VAL:HG22	1.99	0.43
1:Nf:536:TYR:HD1	1:Nf:536:TYR:HA	1.76	0.43
1:Ng:195:LEU:HD23	1:Ng:195:LEU:H	1.83	0.43
1:Nh:380:GLY:H	1:Nh:411:ARG:HD2	1.83	0.43
1:Ni:107:GLY:HA2	1:Ni:179:ALA:O	2.18	0.43
1:Ni:458:TYR:CE1	1:Ni:460:LYS:HA	2.51	0.43
1:Nv:42:LYS:HB3	1:Nv:42:LYS:HE3	1.83	0.43
1:Nv:384:GLU:O	1:Nv:388:THR:OG1	2.33	0.43
1:Nw:302:LYS:HD3	1:Nw:302:LYS:HA	1.89	0.43
1:Nw:383:LEU:HD11	1:Nw:436:TYR:CE1	2.53	0.43
1:Nx:311:ILE:HB	1:Nx:327:ALA:HB2	2.00	0.43
2:OG:72:THR:HB	2:OG:154:GLU:HG3	2.00	0.43
2:OG:140:LEU:HD13	2:OG:153:PHE:HB3	2.00	0.43
2:OI:25:ILE:C	2:OI:27:TYR:H	2.26	0.43
2:OK:103:LYS:O	2:OK:106:GLU:HG2	2.18	0.43
2:ON:1:MET:HE2	2:Os:120:ALA:HB1	2.01	0.43
2:Oi:104:PRO:O	2:Oi:108:LYS:HB2	2.18	0.43
2:Oj:56:ARG:HB3	2:Oj:56:ARG:NH1	2.33	0.43
2:Ol:8:ARG:HE	2:Ol:8:ARG:HB2	1.51	0.43
2:Om:140:LEU:HD11	2:Om:151:GLN:HG2	2.00	0.43
2:On:56:ARG:HB3	2:On:56:ARG:NH1	2.33	0.43
2:PC:58:ILE:HD12	2:PD:6:VAL:HG21	2.00	0.43
2:PD:37:LYS:NZ	2:PD:152:THR:OG1	2.39	0.43
2:PD:82:ARG:HH12	2:PD:138:GLY:HA2	1.82	0.43
2:PF:64:ARG:HH12	2:Pk:94:GLY:C	2.27	0.43
2:PG:63:ASP:OD2	2:Pm:147:ASN:ND2	2.48	0.43
2:PI:16:ALA:HB3	2:Pn:151:GLN:HB2	1.99	0.43
2:PN:10:PHE:HD2	2:PN:14:ASP:H	1.66	0.43
2:Po:115:GLN:NE2	2:RJ:151:GLN:HE22	2.15	0.43
2:RF:39:THR:HG22	2:RF:71:VAL:HG13	1.99	0.43
2:RG:54:MET:H	2:RG:54:MET:HG2	1.59	0.43
2:RK:41:LEU:HD11	2:RK:113:VAL:HG21	2.00	0.43
2:RM:83:GLN:HA	2:RM:86:VAL:HG22	1.99	0.43
2:RR:129:ILE:HG21	2:RR:132:LEU:HD13	2.01	0.43
2:Rn:137:VAL:HA	2:Rn:155:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Rr:25:ILE:C	2:Rr:27:TYR:H	2.26	0.43
1:K0:378:CYS:HB2	1:K0:410:PRO:HA	1.99	0.43
1:K2:505:LEU:HD22	1:K2:533:TYR:CD2	2.54	0.43
1:K3:554:ARG:O	1:K3:554:ARG:HD3	2.18	0.43
1:K4:467:TRP:CZ3	1:K5:199:GLU:HB2	2.53	0.43
1:K4:650:ASP:C	1:K4:652:ASP:H	2.25	0.43
1:K5:450:ILE:HD13	1:K5:522:ILE:HG12	2.00	0.43
1:K5:569:LYS:HB2	1:LY:8:ILE:HD11	2.00	0.43
1:K7:222:VAL:HG22	1:K7:325:ALA:HB2	2.00	0.43
1:L0:413:THR:OG1	1:L0:425:ASN:HB3	2.18	0.43
1:L1:275:THR:OG1	1:L1:278:GLN:HG3	2.18	0.43
1:L2:29:LEU:O	1:L2:80:VAL:HA	2.17	0.43
1:L2:40:GLN:H	1:L2:81:VAL:HG23	1.83	0.43
1:L3:104:SER:OG	1:L3:183:THR:OG1	2.17	0.43
1:L3:642:PHE:CE2	1:L4:561:LYS:HG2	2.53	0.43
1:L4:611:THR:HG21	1:MX:20:VAL:HG21	2.01	0.43
1:L5:518:TYR:CE2	1:L5:539:LYS:HD2	2.53	0.43
1:L5:525:VAL:HG22	1:L5:535:LEU:HD23	1.99	0.43
1:L6:91:ASN:OD1	1:L6:194:LEU:HA	2.18	0.43
1:L6:481:THR:HG23	1:L6:496:ARG:HD3	1.98	0.43
1:L8:561:LYS:HB3	1:Mb:10:LEU:HD13	1.99	0.43
1:LQ:470:LEU:HD12	1:LQ:470:LEU:HA	1.71	0.43
1:LQ:575:LEU:HB3	1:LQ:577:ASN:HD22	1.83	0.43
1:LS:32:LYS:NZ	1:LS:60:GLU:OE2	2.48	0.43
1:LS:36:GLY:O	1:LS:82:ARG:NH1	2.46	0.43
1:LU:106:PRO:HB2	1:LU:139:LYS:HD2	2.00	0.43
1:LW:159:GLU:O	1:LW:162:THR:N	2.52	0.43
1:LX:137:ASP:OD1	1:LX:137:ASP:N	2.51	0.43
1:LX:379:ALA:HB2	1:LX:454:TYR:OH	2.19	0.43
1:LY:62:ALA:O	1:LY:66:MET:HB2	2.18	0.43
1:LY:346:SER:O	1:LY:346:SER:OG	2.31	0.43
1:La:90:LYS:HB3	1:La:191:SER:HB3	1.99	0.43
1:La:116:ILE:N	1:La:129:GLY:O	2.51	0.43
1:La:154:ALA:HA	1:La:157:VAL:HG22	2.00	0.43
1:Lc:383:LEU:HD11	1:Lc:436:TYR:CE2	2.53	0.43
1:Lv:536:TYR:HD1	1:Lv:536:TYR:HA	1.69	0.43
1:Lw:489:MET:HE1	1:Lx:575:LEU:HD13	2.00	0.43
1:Lx:406:LEU:HD22	1:Lx:474:ILE:HG13	2.00	0.43
1:M1:453:ASN:HD21	1:M1:525:VAL:HB	1.84	0.43
1:M4:400:ARG:NH1	1:M4:402:ASP:OD1	2.50	0.43
1:M6:101:TYR:CE2	1:M6:143:ILE:HG12	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M6:432:ALA:HB2	1:M6:440:ASN:ND2	2.28	0.43
1:M6:470:LEU:HD12	1:M6:470:LEU:HA	1.77	0.43
1:M7:37:PRO:O	1:M7:82:ARG:HD3	2.17	0.43
1:M8:33:PHE:HA	1:M8:61:THR:HG23	1.99	0.43
1:M8:451:ASP:OD2	1:M8:470:LEU:HB3	2.17	0.43
1:MV:315:PHE:CE2	1:MV:325:ALA:HB3	2.53	0.43
1:MW:351:THR:OG1	1:MW:352:ALA:N	2.51	0.43
1:MX:360:ASP:OD1	1:MX:392:HIS:NE2	2.39	0.43
1:MY:56:GLN:OE1	1:MY:461:TYR:HB3	2.18	0.43
1:Ma:291:GLN:HE22	1:Ma:320:SER:HB2	1.83	0.43
1:Mb:91:ASN:HB2	1:Mb:193:ILE:HG23	1.99	0.43
1:Mb:638:ILE:HG23	1:Mc:623:PHE:HD2	1.83	0.43
1:Mc:310:TYR:HE2	1:Mc:312:ASP:HB2	1.83	0.43
1:Mc:430:ARG:O	1:Mc:430:ARG:HD3	2.17	0.43
1:Mc:470:LEU:HD21	1:Mc:525:VAL:HG11	1.99	0.43
1:Me:453:ASN:OD1	1:Me:453:ASN:N	2.48	0.43
1:Mw:133:GLU:OE1	1:Mw:141:LYS:HB2	2.18	0.43
1:Mw:243:ASP:HA	1:Mw:246:LYS:NZ	2.33	0.43
1:Mz:105:THR:O	1:Mz:180:ALA:HA	2.18	0.43
1:Mz:365:ARG:HA	1:Mz:400:ARG:NH2	2.32	0.43
1:NV:252:LEU:HD22	1:NV:335:SER:O	2.18	0.43
1:NW:29:LEU:HB3	1:NW:80:VAL:HG23	1.99	0.43
1:NW:654:LEU:HD23	1:NW:654:LEU:HA	1.71	0.43
1:Nc:11:LYS:HG2	1:Nc:13:THR:HG23	2.00	0.43
1:Nd:379:ALA:HA	1:Nd:411:ARG:HB2	2.00	0.43
1:Ne:261:ARG:NH1	1:Ne:337:ILE:HD13	2.33	0.43
1:Nh:554:ARG:O	1:Nh:554:ARG:HD3	2.19	0.43
1:Ni:536:TYR:HD1	1:Ni:536:TYR:HA	1.62	0.43
1:Nv:410:PRO:O	1:Nv:413:THR:HG22	2.17	0.43
1:Nw:642:PHE:CE2	1:Nx:564:ILE:HD11	2.53	0.43
1:Nz:601:ILE:CG2	1:Nz:629:ILE:HD12	2.48	0.43
2:OE:49:ILE:O	2:OE:49:ILE:HG12	2.16	0.43
2:OM:55:ASN:HA	2:Os:19:ASN:HD22	1.83	0.43
2:OM:82:ARG:O	2:OM:86:VAL:HG13	2.17	0.43
2:OO:82:ARG:HH21	2:Rt:41:LEU:HD23	1.82	0.43
2:Oj:83:GLN:NE2	2:Oj:87:ASP:OD1	2.51	0.43
2:Ol:41:LEU:HD12	2:Ol:41:LEU:HA	1.80	0.43
2:On:140:LEU:HD12	2:On:140:LEU:HA	1.72	0.43
2:PD:17:ARG:HA	2:PD:17:ARG:HD3	1.87	0.43
2:PD:23:VAL:HG11	2:PD:39:THR:HG21	1.99	0.43
2:PE:117:ALA:HB2	2:PE:124:THR:HG23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PF:41:LEU:HD23	2:Pk:140:LEU:HD23	2.00	0.43
2:PL:104:PRO:O	2:PL:108:LYS:HB2	2.18	0.43
2:Ph:161:TYR:CD1	2:RC:96:GLY:HA2	2.53	0.43
2:RF:117:ALA:HB2	2:RF:124:THR:HG23	2.00	0.43
2:RF:121:LYS:HE2	2:RF:121:LYS:HB3	1.80	0.43
2:Rs:23:VAL:HG13	2:Rs:36:CYS:SG	2.58	0.43
1:K1:650:ASP:C	1:K1:652:ASP:H	2.26	0.43
1:K2:42:LYS:HE3	1:K2:42:LYS:HB3	1.71	0.43
1:K5:72:LEU:HD13	1:K5:72:LEU:HA	1.76	0.43
1:K6:37:PRO:HG3	1:K6:226:TYR:CZ	2.54	0.43
1:K6:100:GLU:HG2	1:K6:186:LYS:O	2.18	0.43
1:K8:31:GLY:HA3	1:K8:64:TYR:CD1	2.52	0.43
1:K8:332:GLU:OE1	1:K8:332:GLU:N	2.30	0.43
1:K8:375:ALA:HB1	1:K8:390:GLN:HG2	2.01	0.43
1:K9:261:ARG:NH1	1:K9:337:ILE:HD13	2.32	0.43
1:L0:623:PHE:HB3	1:L9:638:ILE:HG12	2.01	0.43
1:L1:221:GLY:O	1:L1:325:ALA:HA	2.19	0.43
1:L1:382:SER:OG	1:L1:385:THR:HG22	2.19	0.43
1:L3:484:VAL:HG13	1:L3:485:SER:H	1.83	0.43
1:L4:351:THR:OG1	1:L4:352:ALA:N	2.51	0.43
1:L5:368:VAL:O	1:L5:400:ARG:NH2	2.51	0.43
1:L5:391:LYS:NZ	1:L5:440:ASN:O	2.47	0.43
1:L6:251:LEU:H	1:L6:251:LEU:HG	1.46	0.43
1:L7:444:SER:HB3	1:L7:543:SER:H	1.83	0.43
1:L8:349:GLU:OE1	1:L8:349:GLU:N	2.51	0.43
1:L9:296:SER:O	1:L9:311:ILE:HG13	2.19	0.43
1:LR:110:TYR:CE1	1:LR:177:GLY:HA3	2.53	0.43
1:LU:281:ILE:HG13	1:LU:295:LEU:HD12	1.98	0.43
1:LU:291:GLN:HE22	1:LU:320:SER:HB2	1.83	0.43
1:LX:110:TYR:CE1	1:LX:171:ILE:HD12	2.54	0.43
1:LX:428:ASN:HB3	1:LX:433:ALA:O	2.19	0.43
1:LZ:236:ILE:HD13	1:LZ:340:LEU:HD21	1.99	0.43
1:LZ:505:LEU:HD22	1:LZ:533:TYR:HD2	1.84	0.43
1:Lb:646:ALA:H	1:Lb:650:ASP:CG	2.27	0.43
1:Lb:653:GLU:H	1:Lb:653:GLU:HG2	1.54	0.43
1:Lc:134:VAL:HG12	1:Lc:140:ILE:HG22	2.00	0.43
1:Ld:142:LYS:HE2	1:Ld:142:LYS:HB2	1.85	0.43
1:Lv:643:VAL:HG13	1:MQ:14:THR:HG22	2.01	0.43
1:Lw:36:GLY:O	1:Lw:82:ARG:NH1	2.48	0.43
1:Lw:119:LYS:HG2	1:Lw:124:ASP:HA	1.99	0.43
1:Lw:269:PHE:CE1	1:Lw:280:ALA:HB1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lz:378:CYS:SG	1:Lz:379:ALA:N	2.91	0.43
1:M1:35:TRP:O	1:M1:54:PHE:HA	2.18	0.43
1:M1:510:ARG:HG2	1:M1:511:GLN:H	1.82	0.43
1:M3:66:MET:HB3	1:M3:468:VAL:HG11	2.00	0.43
1:M3:365:ARG:HA	1:M3:400:ARG:NH2	2.33	0.43
1:M4:559:MET:HE2	1:M4:559:MET:HB2	1.88	0.43
1:M4:651:PHE:O	1:M4:654:LEU:HB2	2.18	0.43
1:M6:114:ASP:N	1:M6:114:ASP:OD1	2.51	0.43
1:M6:451:ASP:OD2	1:M6:470:LEU:HB3	2.18	0.43
1:M7:556:LEU:HD22	1:M7:560:LEU:HD22	2.01	0.43
1:M8:614:THR:O	1:M8:616:SER:N	2.52	0.43
1:MR:39:PHE:HB3	1:MR:361:PHE:CE1	2.53	0.43
1:MS:480:ARG:NH2	1:MS:498:GLN:O	2.45	0.43
1:MS:517:LEU:HD12	1:MS:517:LEU:HA	1.79	0.43
1:MW:199:GLU:CD	1:MW:200:ASN:HD22	2.25	0.43
1:MY:143:ILE:HD12	1:MY:145:ILE:HD11	1.99	0.43
1:Ma:110:TYR:H	1:Ma:138:GLY:CA	2.30	0.43
1:Mb:571:ARG:HD2	1:Mb:584:PHE:HB2	2.00	0.43
1:Mc:36:GLY:O	1:Mc:226:TYR:HB3	2.18	0.43
1:Md:247:GLY:O	1:Md:263:SER:OG	2.36	0.43
1:Mw:131:ILE:HG12	1:Mw:143:ILE:HG22	1.99	0.43
1:Mw:473:ASP:HB3	1:Mw:499:ILE:HG23	1.99	0.43
1:Mw:572:LEU:HA	1:Mw:572:LEU:HD13	1.71	0.43
1:Mx:645:THR:HB	1:Mx:650:ASP:OD1	2.18	0.43
1:NV:39:PHE:HB3	1:NV:361:PHE:CE2	2.53	0.43
1:NV:120:TYR:HB3	1:NV:153:LYS:NZ	2.33	0.43
1:NV:601:ILE:HG21	1:NV:629:ILE:HD12	2.00	0.43
1:NX:70:ASN:OD1	1:NX:457:GLN:NE2	2.40	0.43
1:NX:398:ASP:O	1:NX:401:GLN:HG3	2.18	0.43
1:Nc:97:GLY:O	1:Nc:147:THR:OG1	2.34	0.43
1:Nc:130:LYS:NZ	1:Nc:132:THR:HG22	2.33	0.43
1:Nc:484:VAL:HG13	1:Nc:485:SER:H	1.83	0.43
1:Nd:211:GLN:HB3	1:Nd:329:ASN:ND2	2.33	0.43
1:Nd:430:ARG:HB2	1:Nd:522:ILE:HD11	2.00	0.43
1:Nd:505:LEU:HD12	1:Nd:505:LEU:HA	1.88	0.43
1:Ne:264:THR:OG1	1:Ne:265:ALA:N	2.49	0.43
1:Nf:470:LEU:HD23	1:Nf:525:VAL:HG21	2.00	0.43
1:Nh:69:MET:O	1:Nh:73:GLN:HG2	2.18	0.43
1:Nh:430:ARG:HB2	1:Nh:522:ILE:HD11	2.00	0.43
1:Ni:159:GLU:O	1:Ni:162:THR:N	2.50	0.43
1:Nj:564:ILE:HD12	1:Nj:627:PHE:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nw:213:ASN:HA	1:Nw:216:LYS:HB3	2.01	0.43
1:Nw:414:VAL:HG23	1:Nw:422:ALA:HB1	1.99	0.43
2:OH:140:LEU:HD12	2:OH:140:LEU:HA	1.66	0.43
2:OL:23:VAL:HG13	2:OL:36:CYS:SG	2.59	0.43
2:Oh:106:GLU:O	2:Oh:109:LYS:NZ	2.52	0.43
2:Ok:82:ARG:NH1	2:Ok:138:GLY:HA2	2.33	0.43
2:Op:124:THR:O	2:Op:125:LYS:HB3	2.18	0.43
2:PE:73:VAL:HB	2:PE:153:PHE:CE1	2.53	0.43
2:PF:16:ALA:HB3	2:Pk:151:GLN:HB2	2.00	0.43
2:PF:118:ARG:HA	2:PF:118:ARG:HD2	1.85	0.43
2:Pl:83:GLN:HA	2:Pl:86:VAL:HG22	2.00	0.43
2:Pq:45:ILE:HG23	2:Pq:65:THR:O	2.17	0.43
2:Pr:45:ILE:HA	2:RM:135:THR:O	2.19	0.43
2:RF:61:ALA:HB3	2:RG:118:ARG:HH12	1.82	0.43
2:RM:132:LEU:HA	2:RM:158:ALA:O	2.18	0.43
2:Rq:1:MET:HE2	2:Rq:1:MET:HB3	1.76	0.43
2:Rq:113:VAL:HG13	2:Rq:127:ILE:HG23	2.00	0.43
1:K0:511:GLN:OE1	1:Le:5:SER:OG	2.35	0.43
1:K2:269:PHE:CE1	1:K2:280:ALA:HB1	2.53	0.43
1:K4:57:PRO:HA	1:K4:61:THR:HB	2.01	0.43
1:K4:409:PRO:HB3	1:K4:426:LEU:HD21	2.00	0.43
1:K4:492:ALA:HB2	1:K4:535:LEU:HD13	1.99	0.43
1:K5:572:LEU:HD12	1:K5:572:LEU:HA	1.86	0.43
1:K8:643:VAL:HG12	1:K8:645:THR:HG23	2.00	0.43
1:L0:32:LYS:HD3	1:L0:64:TYR:OH	2.19	0.43
1:L0:509:THR:O	1:L0:514:ARG:NH1	2.51	0.43
1:L1:654:LEU:HA	1:L1:654:LEU:HD23	1.70	0.43
1:L2:400:ARG:HD3	1:L2:403:CYS:SG	2.58	0.43
1:L2:607:VAL:HG12	1:L2:612:ASN:ND2	2.34	0.43
1:L4:131:ILE:HD11	1:L4:171:ILE:HD13	2.01	0.43
1:L4:302:LYS:HA	1:L4:302:LYS:HD3	1.83	0.43
1:L6:109:ASN:OD1	1:L6:109:ASN:N	2.51	0.43
1:L6:230:LEU:HD23	1:L6:230:LEU:HA	1.83	0.43
1:L7:560:LEU:O	1:L7:564:ILE:HG23	2.19	0.43
1:L7:571:ARG:HA	1:L7:571:ARG:HD3	1.95	0.43
1:L7:653:GLU:H	1:L7:653:GLU:HG2	1.59	0.43
1:L8:215:LYS:HB2	1:L8:329:ASN:ND2	2.34	0.43
1:L9:389:VAL:O	1:L9:393:VAL:HG23	2.18	0.43
1:LU:378:CYS:SG	1:LU:454:TYR:OH	2.62	0.43
1:LV:400:ARG:HB3	1:LV:400:ARG:HH11	1.82	0.43
1:LW:42:LYS:HB3	1:LW:42:LYS:HE3	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:La:253:PRO:HG2	1:La:255:TYR:CE2	2.54	0.43
1:Ld:110:TYR:H	1:Ld:138:GLY:CA	2.32	0.43
1:Le:2:THR:OG1	1:Le:3:LEU:N	2.52	0.43
1:Le:368:VAL:O	1:Le:400:ARG:NH2	2.52	0.43
1:Le:480:ARG:C	1:Le:482:ASP:H	2.26	0.43
1:Lx:42:LYS:HB3	1:Lx:42:LYS:HE3	1.73	0.43
1:Lx:484:VAL:HG13	1:Lx:485:SER:H	1.84	0.43
1:Lz:410:PRO:O	1:Lz:413:THR:HG22	2.19	0.43
1:M0:379:ALA:C	1:M0:381:GLU:H	2.26	0.43
1:M0:406:LEU:HD22	1:M0:474:ILE:HG13	1.99	0.43
1:M0:601:ILE:HD13	1:M0:629:ILE:HB	1.99	0.43
1:M1:654:LEU:HA	1:M1:654:LEU:HD23	1.67	0.43
1:M4:429:TRP:CZ2	1:M4:441:PHE:HB2	2.54	0.43
1:M4:571:ARG:HH11	1:M4:584:PHE:HD1	1.65	0.43
1:M8:569:LYS:HB3	1:M8:569:LYS:HE2	1.67	0.43
1:M9:565:GLY:O	1:M9:569:LYS:HG3	2.19	0.43
1:M9:577:ASN:HA	1:M9:581:ARG:HH21	1.83	0.43
1:MR:429:TRP:CZ2	1:MR:441:PHE:HB2	2.54	0.43
1:MU:645:THR:OG1	1:MV:629:ILE:O	2.36	0.43
1:MY:382:SER:OG	1:MY:385:THR:HG22	2.18	0.43
1:MZ:510:ARG:HG2	1:MZ:511:GLN:H	1.83	0.43
1:MZ:563:ASN:ND2	1:MZ:566:ARG:HH12	2.17	0.43
1:MZ:571:ARG:HA	1:MZ:571:ARG:HD3	1.89	0.43
1:MZ:614:THR:O	1:MZ:616:SER:N	2.50	0.43
1:Mb:571:ARG:HH11	1:Mb:584:PHE:HD1	1.66	0.43
1:Mc:344:LEU:HD13	1:Mc:344:LEU:HA	1.87	0.43
1:Md:202:GLU:H	1:Md:202:GLU:HG3	1.67	0.43
1:Me:74:TYR:CD1	1:Me:476:GLY:HA3	2.54	0.43
1:Me:351:THR:HG23	1:Me:354:ASP:H	1.81	0.43
1:Mv:114:ASP:OD2	1:Mv:131:ILE:HD12	2.19	0.43
1:Mv:153:LYS:HB3	1:Mv:167:TRP:HH2	1.83	0.43
1:Mw:162:THR:O	1:Mw:186:LYS:HB3	2.19	0.43
1:Mx:63:ASP:CG	1:Mx:379:ALA:HB3	2.43	0.43
1:Mz:114:ASP:HB2	1:Mz:131:ILE:HG13	2.00	0.43
1:Mz:381:GLU:HB3	1:Mz:385:THR:OG1	2.18	0.43
1:NZ:455:LYS:HG3	1:NZ:502:VAL:HG13	2.00	0.43
1:Nc:372:LEU:HD12	1:Nc:372:LEU:HA	1.83	0.43
1:Nh:44:VAL:HG11	1:Nh:50:LEU:HB2	2.00	0.43
1:Nh:119:LYS:HA	1:Nh:124:ASP:HA	1.99	0.43
1:Ni:510:ARG:NH1	1:Ni:510:ARG:HB2	2.34	0.43
1:Nx:130:LYS:NZ	1:Nx:132:THR:HG22	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nz:28:ALA:HB2	1:Nz:370:VAL:HG21	2.01	0.43
2:OL:67:ASP:OD1	2:OL:67:ASP:N	2.48	0.43
2:On:124:THR:O	2:On:125:LYS:HB3	2.17	0.43
2:Op:131:GLY:O	2:Op:159:LEU:HA	2.18	0.43
2:PC:104:PRO:HB3	2:PC:108:LYS:HE3	2.00	0.43
2:PG:114:ARG:HG2	2:PG:126:GLU:HG3	2.00	0.43
2:PK:91:ILE:HG22	2:PK:107:TYR:HB3	2.00	0.43
2:PM:115:GLN:HE21	2:PM:115:GLN:HB3	1.53	0.43
2:PO:112:ILE:HD11	2:PO:126:GLU:OE2	2.19	0.43
2:Po:58:ILE:HD12	2:Pp:6:VAL:HG21	2.00	0.43
2:Po:75:ASN:HD22	2:Po:140:LEU:HD21	1.84	0.43
2:Pq:1:MET:HE1	2:RL:22:GLN:HE22	1.83	0.43
2:Ps:1:MET:HB2	2:Ps:1:MET:HE3	1.56	0.43
2:RC:23:VAL:HG22	2:RC:36:CYS:SG	2.58	0.43
2:RM:75:ASN:HD21	2:RM:79:HIS:CD2	2.36	0.43
2:RR:136:ASN:ND2	2:RR:136:ASN:O	2.51	0.43
2:RT:140:LEU:HD12	2:RT:140:LEU:HA	1.73	0.43
2:Rk:1:MET:HE3	2:Rk:1:MET:HB2	1.55	0.43
1:K5:29:LEU:O	1:K5:80:VAL:HA	2.19	0.43
1:K5:315:PHE:CE2	1:K5:325:ALA:HB3	2.54	0.43
1:K5:453:ASN:OD1	1:K5:505:LEU:HG	2.18	0.43
1:K5:572:LEU:O	1:K5:573:PHE:C	2.60	0.43
1:K6:468:VAL:HG12	1:K6:469:PRO:O	2.19	0.43
1:K9:116:ILE:N	1:K9:129:GLY:O	2.51	0.43
1:L0:110:TYR:H	1:L0:138:GLY:CA	2.31	0.43
1:L0:480:ARG:C	1:L0:482:ASP:H	2.26	0.43
1:L1:109:ASN:N	1:L1:138:GLY:HA3	2.33	0.43
1:L1:135:ASP:OD1	1:L1:136:ALA:N	2.52	0.43
1:L3:315:PHE:CE2	1:L3:325:ALA:HB3	2.53	0.43
1:L4:614:THR:O	1:L4:616:SER:N	2.50	0.43
1:L5:57:PRO:HB3	1:L5:62:ALA:HA	1.99	0.43
1:L5:549:ASP:O	1:L5:550:ARG:NE	2.40	0.43
1:L6:86:ARG:HE	1:L6:86:ARG:HB2	1.75	0.43
1:L8:10:LEU:HD13	1:Ld:561:LYS:HD2	2.00	0.43
1:L9:34:GLN:O	1:L9:82:ARG:NH2	2.51	0.43
1:L9:90:LYS:NZ	1:L9:190:ASP:OD1	2.50	0.43
1:L9:222:VAL:HG22	1:L9:325:ALA:HB2	2.00	0.43
1:LQ:46:ASN:HB3	1:LQ:49:ASP:OD1	2.18	0.43
1:LQ:57:PRO:HB2	1:LQ:62:ALA:HA	2.00	0.43
1:LQ:140:ILE:C	1:LQ:141:LYS:HZ2	2.24	0.43
1:LQ:601:ILE:HG21	1:LQ:629:ILE:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LR:468:VAL:HG12	1:LR:469:PRO:O	2.19	0.43
1:LS:121:VAL:HG22	1:LS:166:ASN:HB3	1.99	0.43
1:LS:579:PHE:CE2	2:OD:30:GLN:HB2	2.53	0.43
1:LU:19:VAL:HG21	1:Nz:655:THR:HB	1.99	0.43
1:LU:312:ASP:OD1	1:LU:312:ASP:N	2.50	0.43
1:LU:654:LEU:HD23	1:LU:654:LEU:HA	1.84	0.43
1:LW:41:ILE:HD11	1:LW:361:PHE:HB3	2.00	0.43
1:LW:299:ARG:H	1:LW:299:ARG:HG2	1.52	0.43
1:LW:572:LEU:HD12	1:LW:572:LEU:HA	1.75	0.43
1:LY:614:THR:C	1:LY:616:SER:H	2.26	0.43
1:LZ:379:ALA:HB2	1:LZ:454:TYR:HE2	1.83	0.43
1:Lb:566:ARG:HA	1:Lb:569:LYS:HD2	2.00	0.43
1:Lc:481:THR:HG23	1:Lc:496:ARG:HD2	1.99	0.43
1:Ld:417:ILE:HD13	1:Ld:417:ILE:H	1.83	0.43
1:Le:497:GLY:O	1:Le:534:VAL:HA	2.18	0.43
1:Le:614:THR:O	1:Le:616:SER:N	2.50	0.43
1:Lv:494:TYR:CE1	1:Lw:569:LYS:HG3	2.54	0.43
1:Lw:72:LEU:HD12	1:Lw:72:LEU:HA	1.85	0.43
1:Lw:131:ILE:HD11	1:Lw:171:ILE:HD13	1.99	0.43
1:Lx:121:VAL:HG13	1:Lx:166:ASN:HB3	2.00	0.43
1:M1:412:GLU:H	1:M1:412:GLU:CD	2.26	0.43
1:M2:17:SER:OG	1:MX:628:TYR:OH	2.15	0.43
1:M2:609:ASP:OD1	1:M2:611:THR:OG1	2.34	0.43
1:M5:96:ALA:HA	1:M5:188:ILE:HG22	2.01	0.43
1:M6:230:LEU:HA	1:M6:230:LEU:HD23	1.79	0.43
1:M7:304:ILE:HG21	1:Mb:546:SER:HA	2.01	0.43
1:M9:505:LEU:HA	1:M9:505:LEU:HD12	1.87	0.43
1:MR:32:LYS:NZ	1:MR:347:ASN:O	2.51	0.43
1:MR:400:ARG:HD3	1:MR:403:CYS:SG	2.58	0.43
1:MS:69:MET:O	1:MS:73:GLN:HG2	2.19	0.43
1:MU:120:TYR:HE2	1:MU:157:VAL:HG11	1.83	0.43
1:MU:205:MET:HE2	1:MU:205:MET:HB3	1.77	0.43
1:MV:133:GLU:OE1	1:MV:142:LYS:HD3	2.18	0.43
1:MW:107:GLY:HA3	1:MW:180:ALA:HB2	2.01	0.43
1:MX:42:LYS:HE3	1:MX:42:LYS:HB3	1.88	0.43
1:MX:486:GLN:NE2	2:On:11:GLU:OE1	2.39	0.43
1:Ma:11:LYS:HG2	1:Ma:13:THR:HG23	2.00	0.43
1:Ma:74:TYR:CD1	1:Ma:476:GLY:HA3	2.54	0.43
1:Ma:161:PRO:O	1:Ma:186:LYS:HB2	2.19	0.43
1:Mc:494:TYR:HE2	1:Mc:528:THR:HG21	1.83	0.43
1:Mc:641:ASN:OD1	1:Mc:641:ASN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Md:137:ASP:OD1	1:Md:137:ASP:N	2.51	0.43
1:Md:494:TYR:HE2	1:Md:528:THR:HG21	1.83	0.43
1:Md:614:THR:C	1:Md:616:SER:H	2.26	0.43
1:Mw:560:LEU:O	1:Mw:564:ILE:HG23	2.18	0.43
1:Mx:110:TYR:H	1:Mx:138:GLY:CA	2.32	0.43
1:Mz:100:GLU:HG2	1:Mz:186:LYS:O	2.19	0.43
1:Mz:429:TRP:CZ2	1:Mz:441:PHE:HB2	2.54	0.43
1:NX:107:GLY:HA2	1:NX:179:ALA:O	2.19	0.43
1:NX:116:ILE:N	1:NX:129:GLY:O	2.52	0.43
1:NX:451:ASP:CG	1:NX:452:GLY:N	2.76	0.43
1:NZ:237:GLU:HG3	1:NZ:337:ILE:HG12	2.01	0.43
1:Nb:220:PRO:HG2	1:Nb:338:LEU:HD11	2.01	0.43
1:Nb:563:ASN:OD1	1:Nb:566:ARG:NH2	2.47	0.43
1:Nc:163:LEU:HB3	1:Nc:167:TRP:CD1	2.54	0.43
1:Ne:30:ALA:HB3	1:Ne:359:TRP:CE2	2.54	0.43
1:Ne:484:VAL:HG13	1:Ne:485:SER:H	1.83	0.43
1:Nf:378:CYS:SG	1:Nf:469:PRO:HB3	2.59	0.43
1:Ng:116:ILE:HD12	1:Ng:171:ILE:HG12	2.00	0.43
1:Ng:229:GLU:H	1:Ng:229:GLU:HG2	1.47	0.43
1:Ni:133:GLU:OE1	1:Ni:141:LYS:HB2	2.18	0.43
1:Ni:505:LEU:HD22	1:Ni:533:TYR:CD2	2.53	0.43
1:Nv:247:GLY:HA2	1:Nv:266:LYS:HG3	2.00	0.43
1:Nv:642:PHE:CZ	1:Nw:561:LYS:HG2	2.54	0.43
1:Nw:70:ASN:OD1	1:Nw:457:GLN:NE2	2.33	0.43
1:Nw:116:ILE:HG12	1:Nw:130:LYS:HA	1.99	0.43
1:Nx:131:ILE:HD13	1:Nx:140:ILE:HG21	1.99	0.43
1:Nx:182:ILE:HG13	1:Nx:182:ILE:O	2.18	0.43
1:Nz:379:ALA:C	1:Nz:381:GLU:H	2.25	0.43
2:OJ:54:MET:HE1	2:Op:116:TYR:CD2	2.53	0.43
2:OJ:72:THR:HB	2:OJ:154:GLU:HG3	2.01	0.43
2:ON:56:ARG:HH12	2:Os:66:PHE:HE2	1.67	0.43
2:Ok:61:ALA:HA	2:PF:133:TRP:CH2	2.53	0.43
2:Op:125:LYS:HG2	2:PK:79:HIS:ND1	2.33	0.43
2:PC:83:GLN:HA	2:PC:86:VAL:HG22	2.00	0.43
2:PG:1:MET:O	2:RF:98:GLU:HA	2.19	0.43
2:PG:44:GLY:O	2:Pl:89:GLN:NE2	2.49	0.43
2:PJ:31:ASN:O	2:PJ:35:GLN:HG3	2.18	0.43
2:PJ:58:ILE:CD1	2:PK:6:VAL:HG21	2.48	0.43
2:PO:82:ARG:NH1	2:PO:138:GLY:HA2	2.33	0.43
2:Pj:2:PHE:HD2	2:RS:97:ASN:HB3	1.83	0.43
2:Pr:3:VAL:N	2:Rq:97:ASN:O	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pr:45:ILE:HG23	2:Pr:65:THR:O	2.19	0.43
2:Ps:21:PHE:CG	2:RN:142:LEU:HD23	2.54	0.43
2:Ps:25:ILE:HG13	2:Ps:32:PHE:CE2	2.54	0.43
2:RF:23:VAL:HG22	2:RF:36:CYS:SG	2.59	0.43
2:RO:60:VAL:HG23	2:Rt:104:PRO:HG3	2.01	0.43
2:Rk:75:ASN:OD1	2:Rk:79:HIS:HA	2.19	0.43
2:Rm:58:ILE:HD12	2:Rn:6:VAL:HG21	1.99	0.43
2:Rn:80:ASP:O	2:Rn:84:LYS:HG3	2.17	0.43
1:K0:240:SER:OG	1:K0:243:ASP:OD1	2.37	0.43
1:K0:355:LEU:HD23	1:K0:355:LEU:HA	1.76	0.43
1:K0:549:ASP:O	1:K0:550:ARG:NE	2.44	0.43
1:K1:308:ASN:ND2	1:K1:313:ASP:OD2	2.52	0.43
1:K2:344:LEU:HD22	1:K2:344:LEU:HA	1.88	0.43
1:K5:116:ILE:H	1:K5:116:ILE:HG12	1.66	0.43
1:K6:34:GLN:HG2	1:K6:230:LEU:HG	2.01	0.43
1:K7:66:MET:SD	1:K7:459:ASP:HB2	2.58	0.43
1:L0:473:ASP:HB3	1:L0:499:ILE:HG23	2.00	0.43
1:L2:444:SER:HB3	1:L2:543:SER:H	1.84	0.43
1:L3:266:LYS:HE3	1:L3:266:LYS:HB3	1.92	0.43
1:L4:31:GLY:HA3	1:L4:64:TYR:CD1	2.54	0.43
1:L4:467:TRP:HZ3	1:L5:199:GLU:HB2	1.84	0.43
1:L5:642:PHE:CE1	1:L6:564:ILE:HD11	2.54	0.43
1:L6:512:ALA:O	1:L6:516:ARG:HG3	2.18	0.43
1:L6:569:LYS:HE3	1:L6:569:LYS:HB3	1.66	0.43
1:L7:30:ALA:HB2	1:L7:81:VAL:HG13	2.01	0.43
1:L8:253:PRO:HG2	1:L8:255:TYR:CE1	2.54	0.43
1:L8:312:ASP:OD1	1:L8:312:ASP:N	2.48	0.43
1:L8:390:GLN:NE2	1:L8:408:SER:H	2.17	0.43
1:LS:69:MET:O	1:LS:73:GLN:HG2	2.19	0.43
1:LV:481:THR:HG23	1:LV:496:ARG:HD2	1.99	0.43
1:LV:645:THR:HB	1:LV:650:ASP:OD1	2.18	0.43
1:LW:133:GLU:HB2	1:LW:142:LYS:HB2	2.01	0.43
1:LX:521:ALA:HB1	1:LX:541:ALA:HA	2.00	0.43
1:LX:576:ASN:ND2	1:LX:618:ILE:HG12	2.34	0.43
1:LY:549:ASP:O	1:LY:550:ARG:NE	2.38	0.43
1:LZ:152:ALA:O	1:LZ:156:GLU:HG2	2.19	0.43
1:Ld:230:LEU:HD23	1:Ld:230:LEU:HA	1.87	0.43
1:Lv:104:SER:N	1:Lv:181:VAL:O	2.51	0.43
1:Lv:131:ILE:HD11	1:Lv:171:ILE:HD13	2.01	0.43
1:Lw:202:GLU:H	1:Lw:202:GLU:HG3	1.61	0.43
1:Lw:394:VAL:HG11	1:Lw:443:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lx:34:GLN:HE21	1:Lx:230:LEU:HD12	1.83	0.43
1:Lz:222:VAL:HG22	1:Lz:325:ALA:HB2	1.99	0.43
1:M0:485:SER:HB2	1:M0:496:ARG:HD3	2.00	0.43
1:M3:100:GLU:HG2	1:M3:186:LYS:O	2.19	0.43
1:M3:109:ASN:OD1	1:M3:109:ASN:N	2.52	0.43
1:M4:43:GLN:NE2	1:M4:77:ASP:OD2	2.52	0.43
1:M6:116:ILE:N	1:M6:129:GLY:O	2.51	0.43
1:M7:31:GLY:HA3	1:M7:64:TYR:CD1	2.53	0.43
1:M7:456:TYR:CZ	1:M7:465:ASN:HB3	2.54	0.43
1:M7:505:LEU:HD22	1:M7:533:TYR:CD2	2.53	0.43
1:M8:239:VAL:HG22	1:M8:280:ALA:HB3	2.00	0.43
1:M8:423:VAL:HG13	1:M8:517:LEU:HD13	1.99	0.43
1:M9:222:VAL:HG11	1:M9:236:ILE:HG12	2.01	0.43
1:M9:568:SER:HA	1:M9:571:ARG:HG2	2.01	0.43
1:MQ:298:LYS:HB2	1:MQ:298:LYS:NZ	2.33	0.43
1:MQ:355:LEU:HA	1:MQ:355:LEU:HD23	1.79	0.43
1:MR:100:GLU:OE2	1:MR:186:LYS:HG3	2.19	0.43
1:MR:134:VAL:HG12	1:MR:140:ILE:HG22	2.00	0.43
1:MR:148:ALA:O	1:MR:151:ILE:HG13	2.18	0.43
1:MU:252:LEU:HD22	1:MU:335:SER:O	2.19	0.43
1:MV:26:THR:HA	1:MV:77:ASP:O	2.19	0.43
1:MV:404:LEU:HD22	1:MV:404:LEU:HA	1.76	0.43
1:MZ:43:GLN:OE1	1:MZ:79:ARG:NH1	2.44	0.43
1:MZ:206:THR:HA	1:MZ:211:GLN:HE21	1.84	0.43
1:MZ:368:VAL:O	1:MZ:400:ARG:NH2	2.51	0.43
1:Ma:149:LYS:NZ	1:Ma:149:LYS:HB3	2.34	0.43
1:Mb:202:GLU:H	1:Mb:202:GLU:HG3	1.61	0.43
1:Mc:432:ALA:HB2	1:Mc:440:ASN:HD22	1.84	0.43
1:Md:107:GLY:HA2	1:Md:179:ALA:O	2.19	0.43
1:Me:37:PRO:O	1:Me:82:ARG:HD3	2.17	0.43
1:Mw:131:ILE:HD13	1:Mw:140:ILE:HG21	2.01	0.43
1:Mw:454:TYR:HB3	1:Mw:467:TRP:HD1	1.84	0.43
1:Mz:11:LYS:HB3	1:Mz:13:THR:HG23	2.00	0.43
1:Mz:205:MET:HE1	1:Mz:221:GLY:O	2.19	0.43
1:Mz:539:LYS:HG2	1:Mz:550:ARG:HH21	1.83	0.43
1:NV:302:LYS:HA	1:NV:302:LYS:HD3	1.84	0.43
1:NV:371:GLN:OE1	1:NV:562:THR:OG1	2.18	0.43
1:NX:29:LEU:O	1:NX:80:VAL:HA	2.18	0.43
1:NX:41:ILE:HD13	1:NX:81:VAL:HB	2.01	0.43
1:NX:332:GLU:CD	1:NX:332:GLU:H	2.26	0.43
1:Na:642:PHE:CE2	1:Nb:564:ILE:HD11	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nb:69:MET:HE2	1:Nb:69:MET:HB3	1.87	0.43
1:Nb:193:ILE:HB	1:Nb:210:PHE:CE1	2.53	0.43
1:Nd:110:TYR:H	1:Nd:138:GLY:CA	2.30	0.43
1:Ne:490:SER:OG	1:Ne:538:ASP:OD2	2.24	0.43
1:Ne:654:LEU:HD22	1:Nf:605:ARG:HD3	1.99	0.43
1:Nf:36:GLY:O	1:Nf:82:ARG:NH1	2.50	0.43
1:Ni:549:ASP:O	1:Ni:550:ARG:NE	2.41	0.43
1:Nw:135:ASP:HB3	1:Nw:139:LYS:HB2	2.01	0.43
1:Nx:346:SER:O	1:Nx:350:VAL:HG23	2.17	0.43
2:OE:27:TYR:CD1	2:OE:109:LYS:HE2	2.54	0.43
2:OM:151:GLN:HB2	2:Rr:16:ALA:O	2.18	0.43
2:Ok:35:GLN:OE1	2:Ok:81:ALA:HB2	2.19	0.43
2:Ok:73:VAL:HG12	2:Ok:74:MET:O	2.18	0.43
2:PE:143:ASP:CG	2:PE:145:ASP:H	2.27	0.43
2:PF:1:MET:HB2	2:PF:1:MET:HE3	1.55	0.43
2:PF:64:ARG:HH11	2:PF:64:ARG:HG2	1.83	0.43
2:PF:64:ARG:NH1	2:Pk:95:GLN:HG3	2.33	0.43
2:PG:54:MET:HA	2:RH:144:TRP:CD1	2.53	0.43
2:PI:140:LEU:HD12	2:PI:140:LEU:HA	1.81	0.43
2:PM:51:VAL:O	2:PM:57:LYS:HB2	2.18	0.43
2:Pl:69:TRP:HB2	2:Pl:159:LEU:HD23	2.00	0.43
2:Pm:8:ARG:HE	2:Pm:8:ARG:HB2	1.63	0.43
2:Pm:147:ASN:OD1	2:Pm:147:ASN:N	2.52	0.43
2:Pq:70:THR:HG22	2:Pq:156:THR:HG22	2.01	0.43
2:Pr:16:ALA:O	2:RM:151:GLN:HB2	2.19	0.43
2:Pr:107:TYR:O	2:Pr:133:TRP:HB3	2.18	0.43
2:RC:82:ARG:HH11	2:RC:138:GLY:HA2	1.84	0.43
2:RE:25:ILE:C	2:RE:27:TYR:H	2.26	0.43
2:RE:35:GLN:NE2	2:RE:81:ALA:HB2	2.34	0.43
2:RE:70:THR:HG22	2:RE:156:THR:HG22	2.00	0.43
2:RJ:116:TYR:CE1	2:RJ:123:VAL:HG22	2.53	0.43
2:RK:25:ILE:C	2:RK:27:TYR:H	2.27	0.43
2:RK:48:LYS:NZ	2:Rp:68:ASP:OD1	2.42	0.43
2:RM:118:ARG:HA	2:RM:118:ARG:HD2	1.78	0.43
2:Rr:41:LEU:HG	2:Rr:127:ILE:HD13	2.01	0.43
2:Rr:143:ASP:OD1	2:Rr:144:TRP:N	2.51	0.43
1:K0:291:GLN:OE1	1:K0:320:SER:OG	2.14	0.43
1:K2:440:ASN:OD1	1:K2:440:ASN:N	2.52	0.43
1:K4:371:GLN:OE1	1:K4:562:THR:OG1	2.21	0.43
1:K6:114:ASP:N	1:K6:114:ASP:OD1	2.51	0.43
1:K9:24:THR:O	1:K9:483:ASN:ND2	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K9:32:LYS:HZ2	1:K9:64:TYR:HE2	1.66	0.43
1:L0:538:ASP:OD1	1:L0:538:ASP:N	2.51	0.43
1:L2:135:ASP:HB3	1:L2:139:LYS:HB2	2.01	0.43
1:L3:440:ASN:OD1	1:L3:440:ASN:N	2.52	0.43
1:L4:28:ALA:HB2	1:L4:370:VAL:HG21	2.01	0.43
1:L6:557:PHE:O	1:L6:561:LYS:HG3	2.17	0.43
1:L6:614:THR:C	1:L6:616:SER:H	2.26	0.43
1:L7:400:ARG:NH1	1:L7:402:ASP:OD1	2.52	0.43
1:L7:423:VAL:HG21	1:L7:513:GLN:HB3	2.01	0.43
1:L8:303:ASP:CG	1:L8:304:ILE:N	2.77	0.43
1:L8:614:THR:O	1:L8:616:SER:N	2.48	0.43
1:LQ:30:ALA:HB3	1:LQ:359:TRP:CE2	2.53	0.43
1:LU:219:ILE:H	1:LU:219:ILE:HD13	1.83	0.43
1:LV:423:VAL:HG21	1:LV:513:GLN:HG2	2.01	0.43
1:LW:276:ASP:OD1	1:LW:276:ASP:N	2.30	0.43
1:LW:536:TYR:HD1	1:LW:536:TYR:HA	1.70	0.43
1:LX:121:VAL:HG13	1:LX:166:ASN:HB3	2.00	0.43
1:LY:57:PRO:HG3	1:LY:65:PHE:CG	2.53	0.43
1:LY:641:ASN:HB2	1:LZ:626:THR:HG23	2.00	0.43
1:LZ:379:ALA:HB2	1:LZ:454:TYR:CE2	2.54	0.43
1:La:614:THR:C	1:La:616:SER:H	2.27	0.43
1:Lb:134:VAL:HG12	1:Lb:140:ILE:HA	2.01	0.43
1:Lb:517:LEU:HD12	1:Lb:517:LEU:HA	1.82	0.43
1:Lc:131:ILE:HD13	1:Lc:140:ILE:HG21	1.99	0.43
1:Ld:32:LYS:HD2	1:Ld:355:LEU:HD21	1.99	0.43
1:Ld:118:VAL:HG22	1:Ld:169:ALA:HB2	2.00	0.43
1:Ld:247:GLY:O	1:Ld:263:SER:OG	2.37	0.43
1:Lv:31:GLY:O	1:Lv:82:ARG:HA	2.19	0.43
1:Lv:467:TRP:CH2	1:Lw:199:GLU:HB2	2.54	0.43
1:Lw:370:VAL:HG23	1:Lw:373:PHE:HE1	1.84	0.43
1:Lw:644:ALA:O	1:Lw:645:THR:OG1	2.34	0.43
1:Lz:650:ASP:C	1:Lz:652:ASP:H	2.27	0.43
1:M1:429:TRP:CZ2	1:M1:441:PHE:HB2	2.54	0.43
1:M1:642:PHE:CE2	1:M2:564:ILE:HD11	2.54	0.43
1:M2:140:ILE:C	1:M2:141:LYS:HZ3	2.25	0.43
1:M2:293:VAL:HG22	1:M2:294:VAL:H	1.83	0.43
1:M2:646:ALA:O	1:M2:647:THR:OG1	2.31	0.43
1:M4:515:ASP:CG	1:Nd:4:LEU:HB2	2.43	0.43
1:M6:568:SER:HA	1:M6:571:ARG:HG2	1.99	0.43
1:M7:275:THR:OG1	1:M7:278:GLN:HG3	2.19	0.43
1:M7:505:LEU:HD22	1:M7:533:TYR:HD2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M7:642:PHE:CZ	1:M8:564:ILE:HD11	2.53	0.43
1:M8:642:PHE:HE2	1:M9:564:ILE:HD11	1.81	0.43
1:M9:35:TRP:O	1:M9:54:PHE:HA	2.19	0.43
1:M9:332:GLU:H	1:M9:332:GLU:CD	2.22	0.43
1:MQ:57:PRO:HB2	1:MQ:62:ALA:HA	2.00	0.43
1:MS:37:PRO:O	1:MS:82:ARG:HD3	2.19	0.43
1:MS:66:MET:HB3	1:MS:468:VAL:HG11	2.01	0.43
1:MU:406:LEU:HD23	1:MU:449:ALA:HB3	2.00	0.43
1:MW:605:ARG:HB3	1:MW:605:ARG:HH11	1.83	0.43
1:MX:572:LEU:HA	1:MX:572:LEU:HD12	1.61	0.43
1:Ma:454:TYR:HB3	1:Ma:467:TRP:CD1	2.54	0.43
1:Ma:505:LEU:HD12	1:Ma:505:LEU:HA	1.73	0.43
1:Mc:99:ILE:HB	1:Mc:147:THR:HG21	2.01	0.43
1:Md:450:ILE:HD13	1:Md:522:ILE:HG12	1.99	0.43
1:Mv:526:THR:OG1	1:Mv:527:GLY:N	2.46	0.43
1:Mw:252:LEU:O	1:Mw:260:THR:HA	2.18	0.43
1:Mz:278:GLN:HG2	1:Mz:296:SER:HB2	2.00	0.43
1:Mz:511:GLN:OE1	1:Mz:514:ARG:NH2	2.52	0.43
1:NV:131:ILE:HG12	1:NV:143:ILE:HG22	2.01	0.43
1:NV:430:ARG:O	1:NV:430:ARG:HD3	2.18	0.43
1:NV:477:LEU:HD11	1:NV:498:GLN:O	2.19	0.43
1:NW:374:ILE:HG22	1:NW:376:GLY:H	1.84	0.43
1:NZ:401:GLN:O	1:NZ:561:LYS:HE3	2.18	0.43
1:Nc:76:ASN:O	1:Nc:76:ASN:ND2	2.51	0.43
1:Nf:220:PRO:HG2	1:Nf:338:LEU:HD11	2.00	0.43
1:Ng:467:TRP:CZ3	1:Nh:199:GLU:HB2	2.54	0.43
1:Ng:486:GLN:NE2	2:Pr:11:GLU:OE1	2.51	0.43
1:Nh:110:TYR:H	1:Nh:138:GLY:HA3	1.84	0.43
1:Ni:220:PRO:HD2	1:Ni:338:LEU:HD11	2.00	0.43
1:Ni:346:SER:O	1:Ni:350:VAL:HG23	2.19	0.43
1:Nv:378:CYS:SG	1:Nv:454:TYR:OH	2.54	0.43
1:Nv:650:ASP:C	1:Nv:652:ASP:H	2.26	0.43
1:Nw:100:GLU:HG2	1:Nw:186:LYS:O	2.19	0.43
1:Nx:154:ALA:HA	1:Nx:157:VAL:HG22	2.01	0.43
2:OI:97:ASN:HB3	2:RJ:2:PHE:HD1	1.84	0.43
2:OL:161:TYR:CD2	2:Oq:96:GLY:HA2	2.53	0.43
2:OO:107:TYR:O	2:OO:133:TRP:HB3	2.19	0.43
2:Oi:39:THR:HG22	2:Oi:71:VAL:HG22	2.00	0.43
2:Oj:27:TYR:CD1	2:Oj:109:LYS:HE2	2.54	0.43
2:Om:112:ILE:HD11	2:Om:126:GLU:OE2	2.18	0.43
2:On:142:LEU:HD11	2:On:151:GLN:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Oo:73:VAL:HG12	2:Oo:74:MET:O	2.19	0.43
2:Op:3:VAL:N	2:Po:97:ASN:O	2.37	0.43
2:PE:41:LEU:O	2:PE:42:PRO:C	2.62	0.43
2:PI:82:ARG:NH1	2:PI:138:GLY:HA2	2.32	0.43
2:PO:25:ILE:C	2:PO:27:TYR:H	2.27	0.43
2:PO:91:ILE:HG22	2:PO:107:TYR:HB3	2.01	0.43
2:Ph:103:LYS:O	2:Ph:106:GLU:HG2	2.18	0.43
2:Pi:41:LEU:HD12	2:Pi:41:LEU:HA	1.72	0.43
2:Pi:41:LEU:HD13	2:RD:142:LEU:HD22	1.99	0.43
2:Pi:114:ARG:HB3	2:Pi:123:VAL:HG13	2.01	0.43
2:RC:41:LEU:HG	2:RC:127:ILE:HD13	2.00	0.43
2:RE:54:MET:HE2	2:RF:1:MET:HE1	2.01	0.43
2:RL:54:MET:HE3	2:Rr:20:LEU:HA	2.01	0.43
2:RS:107:TYR:O	2:RS:133:TRP:HB3	2.19	0.43
2:Rl:1:MET:HE3	2:Rl:1:MET:HB2	1.74	0.43
2:Rs:25:ILE:C	2:Rs:27:TYR:H	2.26	0.43
2:Rt:128:GLU:O	2:Rt:163:GLU:N	2.38	0.43
1:K1:253:PRO:HG2	1:K1:255:TYR:CE1	2.54	0.43
1:K2:453:ASN:OD1	1:K2:505:LEU:HG	2.19	0.43
1:K4:479:ALA:O	1:K4:483:ASN:ND2	2.52	0.43
1:K5:49:ASP:OD1	1:K5:49:ASP:N	2.51	0.43
1:K5:153:LYS:HA	1:K5:153:LYS:HD3	1.85	0.43
1:K9:484:VAL:HG13	1:K9:485:SER:H	1.84	0.43
1:L0:116:ILE:N	1:L0:129:GLY:O	2.52	0.43
1:L0:239:VAL:HG22	1:L0:280:ALA:HB3	1.99	0.43
1:L1:617:VAL:HG23	1:L1:620:ARG:NH1	2.34	0.43
1:L3:42:LYS:HB3	1:L3:42:LYS:HE3	1.78	0.43
1:L3:110:TYR:CE1	1:L3:177:GLY:HA3	2.54	0.43
1:L4:19:VAL:HG21	1:LY:655:THR:HB	2.01	0.43
1:L4:400:ARG:HD3	1:L4:403:CYS:SG	2.59	0.43
1:L4:430:ARG:NH2	1:L4:443:ILE:O	2.52	0.43
1:L5:115:LYS:HD2	1:L5:115:LYS:HA	1.93	0.43
1:L5:269:PHE:CE2	1:L5:280:ALA:HB1	2.53	0.43
1:L7:617:VAL:HG22	1:L7:622:GLU:HB2	2.01	0.43
1:L8:410:PRO:O	1:L8:413:THR:HG22	2.19	0.43
1:L8:477:LEU:HG	1:L8:497:GLY:HA2	2.01	0.43
1:LQ:70:ASN:OD1	1:LQ:457:GLN:NE2	2.35	0.43
1:LQ:110:TYR:CG	1:LQ:177:GLY:HA3	2.54	0.43
1:LQ:456:TYR:HB3	1:LQ:503:ILE:HG23	2.01	0.43
1:LQ:470:LEU:HD23	1:LQ:525:VAL:HG21	2.01	0.43
1:LS:641:ASN:HA	1:Lx:11:LYS:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LU:26:THR:HA	1:LU:77:ASP:O	2.18	0.43
1:LU:72:LEU:HD13	1:LU:72:LEU:HA	1.81	0.43
1:LU:91:ASN:HB2	1:LU:193:ILE:HG23	2.01	0.43
1:LV:118:VAL:HG22	1:LV:169:ALA:HB2	2.01	0.43
1:LV:225:LEU:CD1	1:LV:324:PHE:HB2	2.49	0.43
1:LZ:617:VAL:HG23	1:LZ:620:ARG:NH1	2.34	0.43
1:La:143:ILE:HD12	1:La:145:ILE:HD11	2.01	0.43
1:Lb:35:TRP:O	1:Lb:54:PHE:HA	2.18	0.43
1:Lb:572:LEU:HD12	1:Lb:572:LEU:HA	1.71	0.43
1:Ld:151:ILE:O	1:Ld:155:LYS:HG2	2.19	0.43
1:Le:210:PHE:O	1:Le:214:LEU:HG	2.19	0.43
1:Lv:202:GLU:H	1:Lv:202:GLU:HG3	1.56	0.43
1:Lw:34:GLN:OE1	1:Lw:58:THR:OG1	2.35	0.43
1:Lx:331:PRO:O	1:Lx:333:GLY:N	2.49	0.43
1:Lx:557:PHE:CZ	1:Lx:629:ILE:HD11	2.53	0.43
1:Lx:643:VAL:HG13	1:MS:14:THR:HA	2.01	0.43
1:M1:368:VAL:HG12	1:M1:370:VAL:HG22	2.00	0.43
1:M3:467:TRP:CH2	1:M4:199:GLU:HB2	2.54	0.43
1:M4:237:GLU:OE1	1:M4:284:ARG:NH1	2.49	0.43
1:M5:42:LYS:HB3	1:M5:42:LYS:HE3	1.77	0.43
1:M6:41:ILE:HD13	1:M6:81:VAL:HB	2.01	0.43
1:M7:157:VAL:HG23	1:M7:159:GLU:HG3	2.00	0.43
1:M8:474:ILE:HA	1:M8:477:LEU:HB2	2.01	0.43
1:MQ:119:LYS:HE3	1:MQ:122:SER:HA	2.00	0.43
1:MQ:205:MET:HG3	1:MQ:324:PHE:HE1	1.84	0.43
1:MS:477:LEU:HD23	1:MS:535:LEU:HD12	2.01	0.43
1:MS:653:GLU:O	1:MS:654:LEU:HG	2.19	0.43
1:MU:16:GLN:HE21	1:MU:16:GLN:HB2	1.71	0.43
1:MV:414:VAL:HG23	1:MV:422:ALA:HB1	2.01	0.43
1:MW:505:LEU:HA	1:MW:505:LEU:HD12	1.78	0.43
1:MW:614:THR:C	1:MW:616:SER:H	2.26	0.43
1:MX:651:PHE:CG	1:MX:654:LEU:HD12	2.54	0.43
1:MZ:46:ASN:OD1	1:MZ:47:GLU:N	2.52	0.43
1:MZ:302:LYS:O	1:MZ:307:SER:N	2.52	0.43
1:Ma:394:VAL:HG11	1:Ma:443:ILE:HD12	2.00	0.43
1:Mb:83:ALA:HB2	1:Mb:358:ALA:HB2	2.00	0.43
1:Mb:467:TRP:HZ3	1:Mc:199:GLU:HB2	1.83	0.43
1:Md:57:PRO:HA	1:Md:61:THR:HB	2.01	0.43
1:Me:39:PHE:HE1	1:Me:86:ARG:HD2	1.83	0.43
1:Me:614:THR:C	1:Me:616:SER:H	2.26	0.43
1:Mv:400:ARG:HD3	1:Mv:403:CYS:SG	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mw:440:ASN:HD22	1:Mw:442:ASN:HB2	1.83	0.43
1:Mz:198:ILE:HG23	1:Mz:324:PHE:HE2	1.83	0.43
1:NV:39:PHE:CE1	1:NV:86:ARG:HD2	2.54	0.43
1:Nd:62:ALA:O	1:Nd:66:MET:HB2	2.19	0.43
1:Nf:400:ARG:NH1	1:Nf:403:CYS:HG	2.11	0.43
1:Nh:100:GLU:HG3	1:Nh:185:GLY:HA3	1.99	0.43
1:Nv:235:GLU:OE2	1:Nv:261:ARG:NH2	2.50	0.43
1:Nw:109:ASN:N	1:Nw:138:GLY:HA3	2.34	0.43
1:Nz:451:ASP:HB2	1:Nz:474:ILE:HD13	1.99	0.43
2:OF:64:ARG:HG2	2:OF:64:ARG:HH11	1.84	0.43
2:OF:125:LYS:HG2	2:Ok:79:HIS:ND1	2.33	0.43
2:OJ:24:GLU:OE1	2:OJ:33:THR:OG1	2.26	0.43
2:OK:117:ALA:N	2:OK:122:THR:O	2.50	0.43
2:Oh:124:THR:O	2:Oh:125:LYS:HB3	2.18	0.43
2:Oj:69:TRP:HB2	2:Oj:159:LEU:HD23	1.99	0.43
2:Ol:17:ARG:HG3	2:Ol:20:LEU:HD12	2.00	0.43
2:Or:58:ILE:HD12	2:Os:6:VAL:HG21	2.01	0.43
2:Os:55:ASN:ND2	2:PO:20:LEU:HD21	2.34	0.43
2:PI:25:ILE:HG23	2:PI:111:ALA:HB2	2.01	0.43
2:PO:70:THR:HG22	2:PO:156:THR:HG22	2.00	0.43
2:PO:83:GLN:HA	2:PO:86:VAL:HG22	2.01	0.43
2:Pi:3:VAL:O	2:Pi:6:VAL:HG22	2.19	0.43
2:Pk:23:VAL:HG22	2:Pk:36:CYS:SG	2.59	0.43
2:Pl:121:LYS:H	2:Pl:121:LYS:HG2	1.73	0.43
2:Pq:16:ALA:HB2	2:RL:76:ASP:O	2.19	0.43
2:Pq:19:ASN:O	2:Pq:20:LEU:HB2	2.19	0.43
2:Pq:43:ALA:O	2:Pq:162:TRP:NE1	2.49	0.43
2:RE:69:TRP:HB2	2:RE:159:LEU:HD23	2.00	0.43
2:RF:69:TRP:HB2	2:RF:159:LEU:HD23	2.01	0.43
2:RI:28:LEU:HD23	2:RI:84:LYS:HB3	2.00	0.43
2:RI:56:ARG:HB3	2:RI:56:ARG:NH1	2.29	0.43
2:RJ:82:ARG:O	2:RJ:86:VAL:HG13	2.19	0.43
2:RR:25:ILE:HG22	2:RR:27:TYR:H	1.82	0.43
2:RS:56:ARG:HB3	2:RS:56:ARG:HH11	1.83	0.43
2:RS:124:THR:O	2:RS:125:LYS:HB3	2.19	0.43
2:RT:131:GLY:O	2:RT:159:LEU:HA	2.19	0.43
2:Rk:82:ARG:O	2:Rk:86:VAL:HG13	2.19	0.43
2:Rl:58:ILE:HD12	2:Rm:6:VAL:HG21	2.01	0.43
1:K1:401:GLN:O	1:K1:561:LYS:HE3	2.17	0.43
1:K2:379:ALA:HB2	1:K2:454:TYR:CE2	2.53	0.43
1:K3:308:ASN:ND2	1:K3:313:ASP:OD2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K3:523:ASN:OD1	1:K3:539:LYS:N	2.51	0.43
1:K4:269:PHE:CE2	1:K4:280:ALA:HB1	2.54	0.43
1:K5:57:PRO:HG2	1:K5:459:ASP:OD2	2.19	0.43
1:K5:480:ARG:C	1:K5:482:ASP:H	2.27	0.43
1:K8:379:ALA:C	1:K8:381:GLU:H	2.27	0.43
1:K9:19:VAL:HG21	1:Ni:655:THR:HB	2.00	0.43
1:K9:131:ILE:HG12	1:K9:143:ILE:HG22	2.01	0.43
1:K9:480:ARG:O	1:K9:482:ASP:N	2.51	0.43
1:L0:620:ARG:HB2	1:L0:622:GLU:HG3	2.00	0.43
1:L1:572:LEU:HD12	1:L1:572:LEU:HA	1.67	0.43
1:L3:108:SER:OG	1:L3:109:ASN:OD1	2.22	0.43
1:L4:107:GLY:HA3	1:L4:110:TYR:HE2	1.84	0.43
1:L4:381:GLU:HB3	1:L4:385:THR:HG23	2.00	0.43
1:L5:526:THR:OG1	1:L5:527:GLY:N	2.52	0.43
1:L8:384:GLU:HG2	1:L8:439:ASN:HD21	1.84	0.43
1:L9:134:VAL:HG12	1:L9:140:ILE:HA	2.01	0.43
1:L9:160:TYR:HA	1:L9:161:PRO:HA	1.84	0.43
1:LQ:371:GLN:OE1	1:LQ:562:THR:OG1	2.15	0.43
1:LQ:486:GLN:NE2	2:RR:11:GLU:OE1	2.52	0.43
1:LR:110:TYR:H	1:LR:138:GLY:HA2	1.84	0.43
1:LR:406:LEU:HD22	1:LR:474:ILE:HG13	1.99	0.43
1:LS:394:VAL:HG11	1:LS:443:ILE:HD12	2.00	0.43
1:LS:489:MET:HB3	1:LS:496:ARG:NH1	2.34	0.43
1:LS:569:LYS:O	1:LS:572:LEU:HB2	2.19	0.43
1:LY:247:GLY:HA2	1:LY:266:LYS:HG3	2.00	0.43
1:LZ:102:THR:HB	1:LZ:183:THR:HB	2.01	0.43
1:Ld:32:LYS:HD3	1:Ld:64:TYR:CE2	2.54	0.43
1:Lv:42:LYS:HB3	1:Lv:42:LYS:HE3	1.86	0.43
1:Lv:131:ILE:HG12	1:Lv:143:ILE:HG22	2.00	0.43
1:Lx:131:ILE:HD13	1:Lx:140:ILE:HG21	2.00	0.43
1:Lz:538:ASP:N	1:Lz:538:ASP:OD1	2.52	0.43
1:M0:100:GLU:OE2	1:M0:186:LYS:HG3	2.19	0.43
1:M0:119:LYS:HE3	1:M0:122:SER:HA	2.01	0.43
1:M0:379:ALA:HB2	1:M0:469:PRO:HD3	2.00	0.43
1:M0:651:PHE:CD2	1:M0:654:LEU:HD12	2.52	0.43
1:M1:107:GLY:HA3	1:M1:180:ALA:HB2	2.01	0.43
1:M1:405:VAL:O	1:M1:448:ALA:HA	2.19	0.43
1:M1:655:THR:HB	1:Na:19:VAL:HG21	2.01	0.43
1:M3:91:ASN:OD1	1:M3:194:LEU:HA	2.19	0.43
1:M3:220:PRO:HG2	1:M3:338:LEU:HD11	2.01	0.43
1:M3:581:ARG:HH12	1:M3:610:THR:HB	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M8:11:LYS:HE3	1:M8:13:THR:HG21	2.00	0.43
1:MQ:109:ASN:HA	1:MQ:137:ASP:HB2	2.01	0.43
1:MR:269:PHE:CZ	1:MR:292:SER:HB2	2.54	0.43
1:MS:16:GLN:OE1	1:MS:460:LYS:HD3	2.19	0.43
1:MS:355:LEU:HA	1:MS:355:LEU:HD23	1.86	0.43
1:MU:44:VAL:HG11	1:MU:50:LEU:HB2	2.00	0.43
1:MU:473:ASP:O	1:MU:477:LEU:HD13	2.18	0.43
1:MV:455:LYS:HD3	1:MV:502:VAL:HG22	2.01	0.43
1:MV:538:ASP:O	1:MV:550:ARG:HG3	2.19	0.43
1:MX:557:PHE:CZ	1:MX:629:ILE:HD11	2.54	0.43
1:Md:151:ILE:O	1:Md:155:LYS:HG2	2.19	0.43
1:Md:346:SER:O	1:Md:350:VAL:HG23	2.18	0.43
1:Mv:480:ARG:C	1:Mv:482:ASP:H	2.27	0.43
1:Mv:617:VAL:HG23	1:Mv:622:GLU:HB2	1.99	0.43
1:NW:209:ASP:O	1:NW:213:ASN:ND2	2.37	0.43
1:NZ:572:LEU:HD13	1:NZ:572:LEU:HA	1.78	0.43
1:Nb:392:HIS:O	1:Nb:395:SER:OG	2.31	0.43
1:Ng:221:GLY:O	1:Ng:325:ALA:HA	2.19	0.43
1:Nh:31:GLY:HA3	1:Nh:64:TYR:CD2	2.53	0.43
1:Nv:269:PHE:CZ	1:Nv:292:SER:HB2	2.53	0.43
1:Nv:406:LEU:HB3	1:Nv:474:ILE:HD11	2.01	0.43
1:Nw:430:ARG:HH21	1:Nw:541:ALA:HB1	1.84	0.43
1:Nw:538:ASP:OD1	1:Nw:538:ASP:N	2.51	0.43
1:Nz:645:THR:HB	1:Nz:650:ASP:OD1	2.19	0.43
2:OH:80:ASP:O	2:OH:84:LYS:HG3	2.18	0.43
2:OJ:25:ILE:C	2:OJ:27:TYR:H	2.27	0.43
2:ON:27:TYR:CE1	2:ON:109:LYS:HE2	2.54	0.43
2:ON:139:GLU:OE2	2:ON:141:GLN:NE2	2.52	0.43
2:Op:124:THR:HB	2:PK:78:ALA:HA	2.01	0.43
2:Oq:42:PRO:HD2	2:Oq:127:ILE:HD11	2.01	0.43
2:PC:8:ARG:HD2	2:Ph:34:PHE:CE2	2.53	0.43
2:PD:39:THR:HG23	2:PD:71:VAL:HG13	1.99	0.43
2:PD:56:ARG:NH1	2:PD:56:ARG:HB3	2.33	0.43
2:PD:115:GLN:NE2	2:Pi:151:GLN:OE1	2.52	0.43
2:PL:25:ILE:C	2:PL:27:TYR:H	2.26	0.43
2:PN:27:TYR:CE1	2:PN:109:LYS:HE2	2.53	0.43
2:PN:46:VAL:HG22	2:PN:64:ARG:HB2	2.01	0.43
2:PO:98:GLU:OE1	2:PO:98:GLU:N	2.52	0.43
2:Ph:121:LYS:H	2:Ph:121:LYS:HG2	1.55	0.43
2:Pi:124:THR:O	2:Pi:125:LYS:HB3	2.18	0.43
2:Pj:23:VAL:HG11	2:Pj:39:THR:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Po:48:LYS:HD3	2:Po:59:ASN:OD1	2.19	0.43
2:Pp:10:PHE:HD2	2:Pp:13:GLY:HA2	1.84	0.43
2:Pp:37:LYS:NZ	2:Pp:37:LYS:HB3	2.33	0.43
2:Pr:2:PHE:HB2	2:Pr:5:ASP:OD1	2.19	0.43
2:Pr:27:TYR:CD1	2:Pr:109:LYS:HG3	2.54	0.43
2:Pt:53:PHE:CG	2:Pt:54:MET:N	2.87	0.43
2:RD:118:ARG:HA	2:RD:118:ARG:HD2	1.73	0.43
2:RJ:73:VAL:HG12	2:RJ:74:MET:O	2.19	0.43
2:RL:55:ASN:ND2	2:Rr:20:LEU:HD21	2.34	0.43
2:RL:70:THR:HG22	2:RL:156:THR:HB	2.00	0.43
2:RO:41:LEU:HG	2:RO:127:ILE:HD13	2.00	0.43
2:RR:56:ARG:HB3	2:RR:56:ARG:HH11	1.84	0.43
2:Rs:1:MET:HE3	2:Rs:1:MET:HB2	1.63	0.43
1:K1:143:ILE:HD12	1:K1:145:ILE:HD11	2.01	0.42
1:K2:488:TRP:HB3	1:K2:556:LEU:HG	2.01	0.42
1:K3:91:ASN:OD1	1:K3:91:ASN:N	2.49	0.42
1:K4:644:ALA:O	1:K4:645:THR:OG1	2.36	0.42
1:K5:455:LYS:HD3	1:K5:470:LEU:CD1	2.49	0.42
1:K5:505:LEU:HD21	1:K5:525:VAL:HG12	2.02	0.42
1:K6:569:LYS:HA	1:LZ:8:ILE:HD11	2.01	0.42
1:K6:614:THR:C	1:K6:616:SER:H	2.26	0.42
1:K6:635:ILE:HG12	1:K7:576:ASN:HB2	2.00	0.42
1:K7:654:LEU:HD23	1:K7:654:LEU:HA	1.87	0.42
1:K8:536:TYR:HD1	1:K8:536:TYR:HA	1.73	0.42
1:K8:598:LEU:HD21	2:RN:7:THR:HG22	2.01	0.42
1:K9:16:GLN:HE21	1:K9:16:GLN:HB2	1.57	0.42
1:K9:44:VAL:HG11	1:K9:50:LEU:HB2	2.01	0.42
1:L0:151:ILE:H	1:L0:151:ILE:HG13	1.69	0.42
1:L0:481:THR:HG23	1:L0:496:ARG:HD2	2.00	0.42
1:L1:455:LYS:HZ3	1:L1:473:ASP:CG	2.27	0.42
1:L1:576:ASN:OD1	1:L1:618:ILE:HG12	2.19	0.42
1:L2:107:GLY:HA2	1:L2:179:ALA:O	2.20	0.42
1:L2:140:ILE:O	1:L2:141:LYS:NZ	2.37	0.42
1:L4:296:SER:O	1:L4:311:ILE:HG13	2.19	0.42
1:L5:639:THR:HB	1:L6:624:VAL:HG12	2.01	0.42
1:L7:269:PHE:CZ	1:L7:292:SER:HB2	2.54	0.42
1:L7:492:ALA:HB2	1:L7:535:LEU:HD13	2.01	0.42
1:L8:379:ALA:HB2	1:L8:469:PRO:HD3	2.00	0.42
1:L8:545:PRO:HB3	1:Mc:271:TYR:CD2	2.54	0.42
1:LR:106:PRO:HB2	1:LR:139:LYS:HD2	2.01	0.42
1:LR:156:GLU:H	1:LR:156:GLU:HG2	1.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LS:480:ARG:O	1:LS:484:VAL:HG12	2.19	0.42
1:LU:400:ARG:HB3	1:LU:400:ARG:HH11	1.84	0.42
1:LX:456:TYR:CZ	1:LX:465:ASN:HB3	2.54	0.42
1:LY:57:PRO:HA	1:LY:61:THR:HB	2.01	0.42
1:La:109:ASN:H	1:La:137:ASP:HB2	1.84	0.42
1:Lb:598:LEU:HD21	2:Rr:7:THR:HG22	2.01	0.42
1:Lc:235:GLU:OE2	1:Lc:261:ARG:NH2	2.35	0.42
1:Lc:505:LEU:HD12	1:Lc:505:LEU:HA	1.64	0.42
1:Ld:154:ALA:HA	1:Ld:157:VAL:HG22	2.02	0.42
1:Ld:455:LYS:HB2	1:Ld:470:LEU:HD13	2.01	0.42
1:Lv:70:ASN:OD1	1:Lv:457:GLN:NE2	2.35	0.42
1:Lv:427:VAL:O	1:Lv:431:THR:OG1	2.33	0.42
1:Lv:564:ILE:HD12	1:Lv:627:PHE:HE2	1.84	0.42
1:Lv:593:GLN:NE2	2:OC:4:ASP:OD2	2.44	0.42
1:Lw:107:GLY:HA3	1:Lw:180:ALA:HB2	2.01	0.42
1:Lw:108:SER:O	1:Lw:177:GLY:HA2	2.19	0.42
1:Lw:614:THR:C	1:Lw:616:SER:H	2.27	0.42
1:Lz:206:THR:HA	1:Lz:211:GLN:HE21	1.84	0.42
1:M0:576:ASN:ND2	1:M0:618:ILE:HG12	2.34	0.42
1:M1:120:TYR:HE1	1:M1:166:ASN:ND2	2.17	0.42
1:M1:559:MET:HE2	1:M1:559:MET:HB2	1.90	0.42
1:M2:393:VAL:HG12	1:M2:405:VAL:HG11	2.01	0.42
1:M3:641:ASN:HB2	1:M4:626:THR:HG22	2.00	0.42
1:M4:116:ILE:H	1:M4:116:ILE:HG12	1.67	0.42
1:M5:410:PRO:O	1:M5:413:THR:HG22	2.18	0.42
1:M5:572:LEU:HD12	1:M5:572:LEU:HA	1.82	0.42
1:M7:199:GLU:OE1	1:M7:200:ASN:N	2.52	0.42
1:M8:10:LEU:HD13	1:Md:561:LYS:HD2	2.01	0.42
1:M8:374:ILE:HG22	1:M8:376:GLY:H	1.83	0.42
1:M8:614:THR:C	1:M8:616:SER:H	2.27	0.42
1:MS:514:ARG:NH1	1:MU:366:GLU:OE2	2.52	0.42
1:MU:480:ARG:O	1:MU:484:VAL:HG12	2.18	0.42
1:MU:636:ASN:O	1:Mz:6:PRO:HA	2.19	0.42
1:MV:410:PRO:O	1:MV:413:THR:HG22	2.19	0.42
1:MV:650:ASP:C	1:MV:652:ASP:H	2.27	0.42
1:MX:23:SER:O	1:MX:76:ASN:HB2	2.19	0.42
1:MX:387:SER:O	1:MX:391:LYS:HG3	2.19	0.42
1:MY:28:ALA:HB2	1:MY:370:VAL:HG21	2.00	0.42
1:MZ:57:PRO:HG3	1:MZ:65:PHE:CD1	2.53	0.42
1:Ma:100:GLU:HG2	1:Ma:186:LYS:O	2.19	0.42
1:Ma:458:TYR:CE2	1:Ma:460:LYS:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mb:89:ALA:HA	1:Mb:345:SER:O	2.19	0.42
1:Mb:389:VAL:O	1:Mb:393:VAL:HG23	2.19	0.42
1:Mb:557:PHE:O	1:Mb:561:LYS:HB2	2.19	0.42
1:Mc:37:PRO:O	1:Mc:82:ARG:HD3	2.18	0.42
1:Mc:368:VAL:O	1:Mc:400:ARG:NH2	2.51	0.42
1:Mc:470:LEU:HD23	1:Mc:525:VAL:HG21	2.00	0.42
1:Md:103:ILE:HD13	1:Md:182:ILE:HG23	2.01	0.42
1:Mx:28:ALA:HB2	1:Mx:370:VAL:HG21	1.99	0.42
1:Mx:66:MET:HE3	1:Mx:66:MET:HB2	1.74	0.42
1:Mz:485:SER:OG	1:Mz:486:GLN:N	2.51	0.42
1:NV:422:ALA:O	1:NV:426:LEU:HG	2.19	0.42
1:NZ:69:MET:O	1:NZ:73:GLN:HG2	2.19	0.42
1:Nd:596:LYS:HE2	1:Nd:602:TYR:O	2.19	0.42
1:Ne:423:VAL:HG13	1:Ne:517:LEU:HD13	2.01	0.42
1:Nf:379:ALA:O	1:Nf:381:GLU:N	2.42	0.42
1:Ng:219:ILE:HD13	1:Ng:219:ILE:H	1.83	0.42
1:Ng:645:THR:OG1	1:Nh:629:ILE:O	2.37	0.42
1:Ng:653:GLU:H	1:Ng:653:GLU:HG2	1.55	0.42
1:Nj:379:ALA:HB2	1:Nj:454:TYR:HE2	1.84	0.42
1:Nw:26:THR:HA	1:Nw:77:ASP:O	2.19	0.42
1:Nw:609:ASP:O	1:Nw:613:ASN:ND2	2.40	0.42
1:Nx:392:HIS:O	1:Nx:395:SER:OG	2.20	0.42
1:Nz:137:ASP:N	1:Nz:137:ASP:OD1	2.51	0.42
2:OG:125:LYS:HE3	2:Ol:79:HIS:HB2	2.01	0.42
2:ON:143:ASP:OD1	2:ON:144:TRP:N	2.52	0.42
2:Ok:8:ARG:HG2	2:PF:31:ASN:ND2	2.34	0.42
2:On:69:TRP:CE3	2:On:157:LEU:HD13	2.54	0.42
2:Or:82:ARG:O	2:Or:86:VAL:HG13	2.19	0.42
2:Os:52:GLY:HA2	2:Os:57:LYS:HB3	2.01	0.42
2:PF:75:ASN:ND2	2:PF:151:GLN:OE1	2.42	0.42
2:PJ:56:ARG:HG3	2:RJ:99:ILE:HG12	2.01	0.42
2:PK:85:PHE:CD2	2:PK:155:VAL:HG11	2.54	0.42
2:Ph:49:ILE:O	2:Ph:49:ILE:HG12	2.16	0.42
2:Pj:143:ASP:OD1	2:Pj:144:TRP:N	2.52	0.42
2:Pk:107:TYR:O	2:Pk:133:TRP:HB3	2.18	0.42
2:Pk:143:ASP:OD1	2:Pk:144:TRP:N	2.52	0.42
2:RC:75:ASN:OD1	2:RC:79:HIS:HA	2.19	0.42
2:RG:104:PRO:HA	2:RG:107:TYR:CE2	2.54	0.42
2:RH:1:MET:HE2	2:Rm:120:ALA:HB1	2.01	0.42
2:RH:48:LYS:HD3	2:RH:59:ASN:OD1	2.19	0.42
2:RI:104:PRO:HB3	2:RI:108:LYS:HD2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RM:82:ARG:O	2:RM:86:VAL:HG13	2.18	0.42
2:RN:85:PHE:HB3	2:RN:137:VAL:HG21	2.01	0.42
2:RO:14:ASP:CG	2:Rs:104:PRO:HD3	2.44	0.42
2:Rk:82:ARG:HD2	2:Rk:140:LEU:HD22	2.00	0.42
2:Rm:140:LEU:HA	2:Rm:140:LEU:HD12	1.76	0.42
2:Ro:103:LYS:O	2:Ro:106:GLU:HG2	2.18	0.42
2:Rp:140:LEU:HD12	2:Rp:140:LEU:HA	1.79	0.42
1:K0:535:LEU:HD23	1:K0:536:TYR:H	1.84	0.42
1:K0:538:ASP:HA	1:K0:551:ILE:HD12	2.01	0.42
1:K0:651:PHE:HD2	1:K0:654:LEU:HD12	1.83	0.42
1:K3:66:MET:HB3	1:K3:468:VAL:HG11	2.01	0.42
1:K3:592:LEU:HD23	1:K3:604:TYR:HB2	2.00	0.42
1:K5:202:GLU:H	1:K5:202:GLU:HG3	1.59	0.42
1:K5:269:PHE:CE2	1:K5:280:ALA:HB1	2.54	0.42
1:K8:378:CYS:SG	1:K8:469:PRO:HB3	2.60	0.42
1:K8:400:ARG:HH11	1:K8:403:CYS:HG	1.62	0.42
1:K8:654:LEU:HD22	1:K9:605:ARG:HH11	1.84	0.42
1:K9:131:ILE:HD11	1:K9:171:ILE:HD13	2.01	0.42
1:L0:576:ASN:ND2	1:L0:618:ILE:HG12	2.33	0.42
1:L1:99:ILE:HG13	1:L1:187:ILE:HD13	2.00	0.42
1:L1:160:TYR:HA	1:L1:161:PRO:HA	1.90	0.42
1:L1:300:GLY:O	1:L1:302:LYS:HG2	2.19	0.42
1:L3:228:GLY:HA2	1:L3:345:SER:HB3	2.00	0.42
1:L6:387:SER:O	1:L6:391:LYS:HG3	2.19	0.42
1:L6:440:ASN:OD1	1:L6:440:ASN:N	2.52	0.42
1:L9:378:CYS:SG	1:L9:454:TYR:OH	2.58	0.42
1:LQ:441:PHE:CZ	1:LQ:443:ILE:HD11	2.54	0.42
1:LR:49:ASP:O	1:LR:53:THR:OG1	2.35	0.42
1:LR:72:LEU:HD12	1:LR:72:LEU:HA	1.72	0.42
1:LR:455:LYS:HB3	1:LR:470:LEU:HD13	2.00	0.42
1:LR:481:THR:HG23	1:LR:496:ARG:HD3	2.01	0.42
1:LS:102:THR:N	1:LS:183:THR:O	2.52	0.42
1:LU:228:GLY:HA2	1:LU:345:SER:HB3	2.00	0.42
1:LW:26:THR:HA	1:LW:77:ASP:O	2.19	0.42
1:LY:16:GLN:NE2	1:LY:460:LYS:HB2	2.34	0.42
1:LY:455:LYS:NZ	1:LY:457:GLN:OE1	2.38	0.42
1:La:238:ILE:HG23	1:La:281:ILE:HD13	2.01	0.42
1:La:455:LYS:HB2	1:La:470:LEU:CD1	2.49	0.42
1:Lc:100:GLU:OE2	1:Lc:186:LYS:HG3	2.18	0.42
1:Ld:378:CYS:SG	1:Ld:469:PRO:HB3	2.59	0.42
1:Le:269:PHE:CE1	1:Le:292:SER:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Le:505:LEU:HD12	1:Le:505:LEU:HA	1.69	0.42
1:Lw:368:VAL:HG12	1:Lw:370:VAL:HG22	2.00	0.42
1:Lw:391:LYS:HD3	1:Lw:443:ILE:HG23	2.00	0.42
1:Lx:215:LYS:HB2	1:Lx:329:ASN:ND2	2.33	0.42
1:Lx:549:ASP:OD2	1:MS:271:TYR:OH	2.21	0.42
1:Lz:266:LYS:HE3	1:Lz:266:LYS:HB3	1.74	0.42
1:Lz:453:ASN:HB2	1:Lz:506:ALA:HB3	2.00	0.42
1:M0:238:ILE:HG12	1:M0:281:ILE:HD12	2.01	0.42
1:M0:378:CYS:HB2	1:M0:410:PRO:HA	2.01	0.42
1:M0:400:ARG:HD3	1:M0:403:CYS:SG	2.60	0.42
1:M0:450:ILE:HG22	1:M0:541:ALA:HB2	2.01	0.42
1:M6:459:ASP:HB2	1:M6:466:ARG:HD2	2.00	0.42
1:M6:642:PHE:CZ	1:M7:564:ILE:HD11	2.53	0.42
1:M7:571:ARG:NH1	1:M7:584:PHE:HD1	2.17	0.42
1:M8:410:PRO:O	1:M8:413:THR:HG22	2.19	0.42
1:M9:82:ARG:NH2	1:M9:227:PRO:O	2.47	0.42
1:MQ:164:GLY:N	1:MQ:167:TRP:HD1	2.14	0.42
1:MQ:373:PHE:HE2	1:MQ:403:CYS:SG	2.42	0.42
1:MQ:379:ALA:O	1:MQ:381:GLU:N	2.48	0.42
1:MR:505:LEU:HD12	1:MR:505:LEU:HA	1.82	0.42
1:MS:91:ASN:OD1	1:MS:194:LEU:HA	2.19	0.42
1:MW:269:PHE:CZ	1:MW:280:ALA:HB1	2.54	0.42
1:MX:646:ALA:O	1:MX:647:THR:OG1	2.31	0.42
1:MY:107:GLY:HA3	1:MY:110:TYR:HE2	1.83	0.42
1:MY:505:LEU:HD12	1:MY:505:LEU:HA	1.76	0.42
1:MZ:455:LYS:NZ	1:MZ:473:ASP:OD2	2.52	0.42
1:Ma:131:ILE:HD11	1:Ma:171:ILE:HD13	2.02	0.42
1:Mb:400:ARG:HB3	1:Mb:400:ARG:HH11	1.83	0.42
1:Mb:609:ASP:OD1	1:Mb:611:THR:OG1	2.35	0.42
1:Mw:253:PRO:HG2	1:Mw:255:TYR:CE2	2.54	0.42
1:Mx:121:VAL:HG13	1:Mx:166:ASN:HB3	2.00	0.42
1:Mx:379:ALA:C	1:Mx:381:GLU:H	2.26	0.42
1:Mx:518:TYR:CE2	1:Mx:539:LYS:HD2	2.54	0.42
1:Mx:526:THR:OG1	1:Mx:527:GLY:N	2.52	0.42
1:Mz:419:VAL:HG22	1:Mz:507:ILE:HB	2.01	0.42
1:NW:148:ALA:O	1:NW:151:ILE:HG13	2.19	0.42
1:NW:644:ALA:O	1:NW:645:THR:OG1	2.35	0.42
1:NX:101:TYR:CG	1:NX:143:ILE:HD11	2.54	0.42
1:NZ:310:TYR:O	1:NZ:314:PHE:HB2	2.19	0.42
1:NZ:510:ARG:HE	1:Na:363:ALA:HB3	1.84	0.42
1:NZ:557:PHE:CZ	1:NZ:629:ILE:HG12	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nb:110:TYR:CD1	1:Nb:177:GLY:HA3	2.54	0.42
1:Nb:470:LEU:HD12	1:Nb:470:LEU:HA	1.82	0.42
1:Nd:176:SER:O	1:Nd:176:SER:OG	2.32	0.42
1:Ne:39:PHE:HE1	1:Ne:86:ARG:HD2	1.84	0.42
1:Ni:406:LEU:HD13	1:Ni:475:ALA:HB2	2.01	0.42
1:Nv:383:LEU:HD11	1:Nv:436:TYR:CD2	2.54	0.42
1:Nw:121:VAL:HG23	1:Nw:123:ASP:OD2	2.19	0.42
2:OE:19:ASN:HD22	2:RS:55:ASN:HA	1.84	0.42
2:OE:140:LEU:HA	2:OE:140:LEU:HD12	1.84	0.42
2:OE:151:GLN:HB2	2:RT:16:ALA:HB3	2.00	0.42
2:OG:88:TRP:C	2:OG:88:TRP:CD1	2.97	0.42
2:OK:118:ARG:HA	2:OK:118:ARG:HD2	1.89	0.42
2:OK:140:LEU:HB3	2:Rp:41:LEU:HB2	2.00	0.42
2:OK:161:TYR:CD2	2:Op:96:GLY:HA2	2.54	0.42
2:ON:76:ASP:O	2:Rs:16:ALA:HB2	2.19	0.42
2:OO:64:ARG:NH1	2:Ot:95:GLN:HB3	2.34	0.42
2:Ol:54:MET:H	2:Ol:54:MET:HG2	1.41	0.42
2:Oo:53:PHE:CD1	2:Op:6:VAL:HG13	2.55	0.42
2:Ot:21:PHE:CG	2:PO:142:LEU:HD23	2.54	0.42
2:PK:54:MET:HE3	2:Pq:20:LEU:HA	2.02	0.42
2:Pj:128:GLU:OE1	2:Pj:130:LYS:NZ	2.52	0.42
2:Ps:55:ASN:HA	2:RO:19:ASN:HD22	1.84	0.42
2:RE:27:TYR:CD1	2:RE:109:LYS:HE2	2.55	0.42
2:RK:16:ALA:HB2	2:Rp:76:ASP:O	2.19	0.42
2:RK:112:ILE:HD11	2:RK:126:GLU:OE2	2.19	0.42
2:RM:75:ASN:OD1	2:RM:79:HIS:HA	2.18	0.42
2:RM:125:LYS:HG2	2:Rr:79:HIS:ND1	2.34	0.42
2:RN:58:ILE:HD12	2:RO:6:VAL:HG21	2.01	0.42
2:RS:156:THR:O	2:RS:156:THR:OG1	2.37	0.42
2:Rm:129:ILE:HG21	2:Rm:132:LEU:HD13	2.00	0.42
2:Rq:19:ASN:O	2:Rq:20:LEU:HB2	2.19	0.42
2:Rr:83:GLN:HA	2:Rr:86:VAL:HG22	2.01	0.42
1:K2:379:ALA:HB2	1:K2:454:TYR:HE2	1.84	0.42
1:K5:455:LYS:HD3	1:K5:470:LEU:HD13	2.02	0.42
1:K7:346:SER:O	1:K7:350:VAL:HG23	2.19	0.42
1:K8:451:ASP:OD2	1:K8:470:LEU:HB3	2.19	0.42
1:K9:378:CYS:SG	1:K9:454:TYR:OH	2.60	0.42
1:L1:400:ARG:NH1	1:L1:403:CYS:SG	2.92	0.42
1:L2:215:LYS:HB2	1:L2:329:ASN:OD1	2.20	0.42
1:L2:383:LEU:HD11	1:L2:436:TYR:CD1	2.55	0.42
1:L4:238:ILE:HG23	1:L4:281:ILE:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:429:TRP:CZ2	1:L4:441:PHE:HB2	2.55	0.42
1:L4:566:ARG:HA	1:L4:569:LYS:HD2	2.01	0.42
1:L6:30:ALA:HA	1:L6:81:VAL:O	2.19	0.42
1:L6:644:ALA:O	1:L6:645:THR:OG1	2.34	0.42
1:L7:83:ALA:HB2	1:L7:358:ALA:HB2	1.99	0.42
1:L7:161:PRO:O	1:L7:186:LYS:HB2	2.19	0.42
1:L7:438:ASP:OD1	1:L7:438:ASP:N	2.51	0.42
1:L8:253:PRO:HG2	1:L8:255:TYR:HE1	1.84	0.42
1:L9:19:VAL:HG21	1:Ld:655:THR:HB	2.01	0.42
1:L9:470:LEU:HD12	1:L9:470:LEU:HA	1.70	0.42
1:LV:18:THR:HG22	1:LV:460:LYS:NZ	2.34	0.42
1:LV:421:ARG:HG3	1:LV:425:ASN:ND2	2.33	0.42
1:LW:39:PHE:HE1	1:LW:86:ARG:HD2	1.84	0.42
1:LW:612:ASN:HB3	1:LW:624:VAL:HG23	1.99	0.42
1:LZ:598:LEU:HA	1:LZ:598:LEU:HD23	1.84	0.42
1:Lb:26:THR:HA	1:Lb:77:ASP:O	2.20	0.42
1:Lc:654:LEU:HD23	1:Lc:654:LEU:HA	1.84	0.42
1:Ld:302:LYS:HD3	1:Ld:302:LYS:HA	1.86	0.42
1:Ld:360:ASP:HA	1:Ld:396:ILE:HD11	2.02	0.42
1:Le:70:ASN:OD1	1:Le:457:GLN:NE2	2.50	0.42
1:Lv:289:ILE:H	1:Lv:289:ILE:HG12	1.60	0.42
1:Lw:134:VAL:HA	1:Lw:140:ILE:HA	2.01	0.42
1:Lw:560:LEU:HD22	1:Lw:629:ILE:HD13	2.01	0.42
1:Lw:563:ASN:CG	1:Lw:591:TYR:HH	2.15	0.42
1:Lz:66:MET:HB3	1:Lz:468:VAL:HG11	2.00	0.42
1:Lz:572:LEU:O	1:Lz:573:PHE:C	2.62	0.42
1:M0:455:LYS:HZ2	1:M0:457:GLN:HB2	1.84	0.42
1:M4:381:GLU:HB3	1:M4:385:THR:HG23	2.00	0.42
1:M4:400:ARG:HD3	1:M4:403:CYS:SG	2.59	0.42
1:M4:470:LEU:HD23	1:M4:525:VAL:HG21	2.01	0.42
1:M5:527:GLY:HA2	1:M5:533:TYR:CD2	2.54	0.42
1:M6:557:PHE:O	1:M6:561:LYS:HG3	2.19	0.42
1:M7:33:PHE:HA	1:M7:61:THR:CG2	2.47	0.42
1:M8:151:ILE:HG22	1:M8:187:ILE:HG13	2.01	0.42
1:MQ:116:ILE:HD13	1:MQ:171:ILE:HG23	2.01	0.42
1:MS:11:LYS:HG2	1:MS:13:THR:HG23	2.01	0.42
1:MS:470:LEU:HD12	1:MS:470:LEU:HA	1.73	0.42
1:MS:614:THR:O	1:MS:616:SER:N	2.48	0.42
1:MS:650:ASP:C	1:MS:652:ASP:H	2.26	0.42
1:MV:426:LEU:HD23	1:MV:426:LEU:HA	1.90	0.42
1:MW:104:SER:HB2	1:MW:181:VAL:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MW:355:LEU:HD23	1:MW:355:LEU:HA	1.76	0.42
1:MX:221:GLY:O	1:MX:325:ALA:HA	2.20	0.42
1:MY:229:GLU:H	1:MY:229:GLU:HG2	1.56	0.42
1:MY:448:ALA:O	1:MY:541:ALA:HB3	2.19	0.42
1:Ma:51:VAL:HG21	1:Ma:461:TYR:CZ	2.54	0.42
1:Me:79:ARG:NE	1:Me:369:ASP:OD1	2.48	0.42
1:Me:157:VAL:HG23	1:Me:159:GLU:HG3	2.01	0.42
1:NW:251:LEU:HB3	1:NW:260:THR:HG22	2.02	0.42
1:NW:378:CYS:SG	1:NW:469:PRO:HB3	2.59	0.42
1:NX:107:GLY:HA3	1:NX:110:TYR:HE2	1.82	0.42
1:NX:312:ASP:OD1	1:NX:312:ASP:N	2.51	0.42
1:Na:571:ARG:HD2	1:Na:584:PHE:HB2	2.01	0.42
1:Nb:74:TYR:OH	1:Nb:500:LEU:N	2.36	0.42
1:Nc:12:GLU:H	1:Nc:12:GLU:HG2	1.52	0.42
1:Nc:406:LEU:HD13	1:Nc:475:ALA:CB	2.46	0.42
1:Nc:557:PHE:CE1	1:Nc:629:ILE:HD11	2.54	0.42
1:Ne:159:GLU:OE1	1:Ne:164:GLY:N	2.43	0.42
1:Ne:456:TYR:HD1	1:Ne:456:TYR:HA	1.76	0.42
1:Nh:430:ARG:HD2	1:Nh:520:GLU:O	2.19	0.42
1:Nh:572:LEU:HD12	1:Nh:572:LEU:HA	1.75	0.42
1:Ni:351:THR:OG1	1:Ni:352:ALA:N	2.52	0.42
1:Nj:644:ALA:O	1:Nj:645:THR:OG1	2.32	0.42
1:Nv:592:LEU:HD13	1:Nv:592:LEU:HA	1.87	0.42
1:Nw:72:LEU:HA	1:Nw:72:LEU:HD13	1.79	0.42
1:Nw:120:TYR:CE2	1:Nw:157:VAL:HG11	2.54	0.42
1:Nx:66:MET:HG2	1:Nx:468:VAL:HG21	2.00	0.42
1:Nx:560:LEU:O	1:Nx:564:ILE:HG12	2.20	0.42
1:Nz:91:ASN:HB2	1:Nz:193:ILE:HG23	2.01	0.42
1:Nz:135:ASP:HB3	1:Nz:139:LYS:HB2	2.00	0.42
1:Nz:429:TRP:CZ2	1:Nz:441:PHE:HB2	2.54	0.42
2:OD:48:LYS:HG3	2:OD:59:ASN:HB3	2.01	0.42
2:OD:60:VAL:HG23	2:Oi:104:PRO:HG3	2.02	0.42
2:OG:4:ASP:O	2:OG:7:THR:OG1	2.29	0.42
2:OH:28:LEU:HD22	2:OH:84:LYS:HB3	2.01	0.42
2:OI:25:ILE:HG12	2:OI:111:ALA:HB2	2.01	0.42
2:OI:47:GLU:OE1	2:Oo:148:ASN:ND2	2.30	0.42
2:OJ:41:LEU:HD12	2:OJ:41:LEU:HA	1.73	0.42
2:Oi:114:ARG:HG2	2:Oi:126:GLU:HG3	2.02	0.42
2:Oj:120:ALA:HB3	2:Oj:121:LYS:HG2	2.00	0.42
2:Ok:74:MET:HG2	2:Ok:150:ILE:HD11	2.01	0.42
2:Op:25:ILE:C	2:Op:27:TYR:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Oq:22:GLN:HB2	2:Oq:116:TYR:HE1	1.84	0.42
2:Os:56:ARG:HB3	2:Os:56:ARG:HH11	1.83	0.42
2:Ot:23:VAL:HG22	2:Ot:36:CYS:SG	2.59	0.42
2:PC:90:SER:HA	2:PC:94:GLY:H	1.84	0.42
2:PD:56:ARG:HH12	2:Pi:66:PHE:HE2	1.66	0.42
2:PH:134:PRO:HA	2:PH:157:LEU:HA	2.01	0.42
2:Ph:10:PHE:HD2	2:Ph:13:GLY:HA2	1.84	0.42
2:Ph:82:ARG:HH11	2:Ph:140:LEU:HD22	1.84	0.42
2:Pk:112:ILE:HD11	2:Pk:126:GLU:OE2	2.19	0.42
2:Pm:57:LYS:NZ	2:Pm:57:LYS:HB3	2.34	0.42
2:Ps:140:LEU:HD12	2:Ps:140:LEU:HA	1.68	0.42
2:Pt:35:GLN:OE1	2:Pt:81:ALA:HB2	2.18	0.42
2:RF:129:ILE:HG21	2:RF:132:LEU:HD13	2.01	0.42
2:RK:13:GLY:HA3	2:Ro:103:LYS:HG2	2.01	0.42
2:Rk:132:LEU:HA	2:Rk:158:ALA:O	2.19	0.42
2:Rl:46:VAL:HG22	2:Rl:64:ARG:HE	1.84	0.42
2:Rq:56:ARG:HB3	2:Rq:56:ARG:HH11	1.83	0.42
2:Rr:21:PHE:HE2	2:Rr:39:THR:HG23	1.83	0.42
1:K1:33:PHE:HA	1:K1:61:THR:CG2	2.49	0.42
1:K1:247:GLY:HA2	1:K1:266:LYS:HG3	2.01	0.42
1:K2:505:LEU:HD12	1:K2:505:LEU:HA	1.78	0.42
1:K3:310:TYR:HE2	1:K3:312:ASP:HB2	1.84	0.42
1:K3:315:PHE:CE2	1:K3:325:ALA:HB3	2.55	0.42
1:K4:455:LYS:O	1:K4:467:TRP:HA	2.20	0.42
1:K5:614:THR:C	1:K5:616:SER:H	2.27	0.42
1:K8:371:GLN:HE21	1:K8:371:GLN:HB3	1.60	0.42
1:K8:470:LEU:HD23	1:K8:525:VAL:HG21	2.01	0.42
1:K9:536:TYR:HD1	1:K9:536:TYR:HA	1.69	0.42
1:L0:153:LYS:HA	1:L0:153:LYS:HD3	1.87	0.42
1:L0:213:ASN:O	1:L0:217:TYR:HD2	2.02	0.42
1:L2:39:PHE:CE1	1:L2:86:ARG:HD2	2.54	0.42
1:L3:28:ALA:HB2	1:L3:370:VAL:HG21	2.00	0.42
1:L3:91:ASN:OD1	1:L3:91:ASN:N	2.52	0.42
1:L6:116:ILE:HD13	1:L6:171:ILE:HG23	2.02	0.42
1:L6:200:ASN:OD1	1:L6:200:ASN:N	2.51	0.42
1:L6:451:ASP:CG	1:L6:452:GLY:H	2.27	0.42
1:L6:536:TYR:HD1	1:L6:536:TYR:HA	1.70	0.42
1:L7:31:GLY:HA3	1:L7:64:TYR:CE2	2.54	0.42
1:L7:291:GLN:CD	1:L7:320:SER:HG	2.21	0.42
1:L8:350:VAL:HG13	1:L8:354:ASP:HB2	2.00	0.42
1:L9:450:ILE:HG22	1:L9:541:ALA:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L9:601:ILE:HG12	1:L9:629:ILE:HD13	1.99	0.42
1:LS:222:VAL:HG11	1:LS:236:ILE:HG12	2.01	0.42
1:LU:355:LEU:HA	1:LU:355:LEU:HD23	1.80	0.42
1:LU:360:ASP:OD1	1:LU:392:HIS:NE2	2.35	0.42
1:LV:198:ILE:HG23	1:LV:324:PHE:HE2	1.84	0.42
1:LX:130:LYS:HE2	1:LX:130:LYS:HB2	1.83	0.42
1:LZ:57:PRO:HG3	1:LZ:65:PHE:CD1	2.55	0.42
1:Lb:221:GLY:O	1:Lb:325:ALA:HA	2.19	0.42
1:Lv:430:ARG:HG3	1:Lv:522:ILE:HD11	2.00	0.42
1:M1:487:THR:OG1	1:M1:559:MET:HE3	2.20	0.42
1:M2:332:GLU:OE1	1:M2:332:GLU:N	2.44	0.42
1:M2:484:VAL:HG13	1:M2:485:SER:H	1.85	0.42
1:M3:315:PHE:CE2	1:M3:325:ALA:HB3	2.55	0.42
1:M4:538:ASP:O	1:M4:550:ARG:HG3	2.20	0.42
1:M5:538:ASP:O	1:M5:551:ILE:HG13	2.20	0.42
1:M5:617:VAL:HG22	1:M5:622:GLU:HB2	2.01	0.42
1:M6:57:PRO:HD3	1:M6:65:PHE:CD1	2.55	0.42
1:M8:229:GLU:H	1:M8:229:GLU:HG2	1.51	0.42
1:MQ:617:VAL:HA	1:MQ:620:ARG:HE	1.85	0.42
1:MS:569:LYS:HB3	1:Mw:8:ILE:HD11	2.01	0.42
1:MU:572:LEU:O	1:MU:573:PHE:C	2.61	0.42
1:MY:638:ILE:HG23	1:MZ:623:PHE:HD2	1.85	0.42
1:MZ:28:ALA:HB2	1:MZ:370:VAL:HG21	2.01	0.42
1:Ma:154:ALA:HA	1:Ma:157:VAL:HG22	2.01	0.42
1:Ma:451:ASP:O	1:Ma:522:ILE:HG23	2.20	0.42
1:Me:455:LYS:HZ2	1:Me:457:GLN:HB2	1.84	0.42
1:Mv:205:MET:O	1:Mv:211:GLN:NE2	2.52	0.42
1:Mw:18:THR:HG22	1:Mw:460:LYS:NZ	2.34	0.42
1:Mx:69:MET:O	1:Mx:73:GLN:HG2	2.19	0.42
1:Mx:151:ILE:H	1:Mx:151:ILE:HG13	1.65	0.42
1:Mz:641:ASN:HA	1:NZ:11:LYS:O	2.19	0.42
1:NX:446:THR:OG1	1:NX:554:ARG:NH2	2.48	0.42
1:NX:523:ASN:OD1	1:NX:539:LYS:N	2.52	0.42
1:NZ:460:LYS:HE2	1:NZ:460:LYS:HB2	1.77	0.42
1:Na:485:SER:OG	1:Na:486:GLN:N	2.49	0.42
1:Nb:96:ALA:HA	1:Nb:188:ILE:HG22	2.02	0.42
1:Nb:284:ARG:HG2	1:Nb:289:ILE:HA	2.01	0.42
1:Nc:119:LYS:HZ3	1:Nc:124:ASP:CG	2.23	0.42
1:Ne:63:ASP:CG	1:Ne:379:ALA:HB3	2.45	0.42
1:Ng:253:PRO:HG2	1:Ng:255:TYR:HE1	1.84	0.42
1:Nh:510:ARG:HG2	1:Nh:511:GLN:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ni:225:LEU:HD13	1:Ni:324:PHE:HB2	2.00	0.42
1:Ni:654:LEU:HD13	1:Nj:605:ARG:HD3	2.01	0.42
1:Nv:639:THR:HB	1:Nw:624:VAL:HG12	2.02	0.42
1:Nv:654:LEU:HD22	1:Nw:605:ARG:HD3	2.01	0.42
2:OH:83:GLN:HA	2:OH:86:VAL:HG22	2.00	0.42
2:OK:132:LEU:HD12	2:OK:132:LEU:HA	1.71	0.42
2:Oj:39:THR:HG22	2:Oj:71:VAL:HG13	2.02	0.42
2:Oj:82:ARG:O	2:Oj:86:VAL:HG13	2.19	0.42
2:Ok:70:THR:HG22	2:Ok:156:THR:HG22	2.00	0.42
2:Ol:31:ASN:O	2:Ol:35:GLN:HG3	2.19	0.42
2:Om:74:MET:HG2	2:Om:150:ILE:HD11	2.02	0.42
2:Om:83:GLN:HA	2:Om:86:VAL:HG22	2.00	0.42
2:Oq:114:ARG:NH2	2:Oq:116:TYR:OH	2.48	0.42
2:Or:64:ARG:HG2	2:Or:64:ARG:HH11	1.84	0.42
2:PD:38:ALA:HB3	2:PD:72:THR:HG23	2.01	0.42
2:PE:17:ARG:O	2:PE:115:GLN:NE2	2.48	0.42
2:PE:38:ALA:HB3	2:PE:72:THR:HG23	2.02	0.42
2:PF:146:SER:O	2:PF:146:SER:OG	2.34	0.42
2:PJ:107:TYR:O	2:PJ:133:TRP:HB3	2.20	0.42
2:PN:55:ASN:HA	2:Pt:19:ASN:HD22	1.84	0.42
2:PN:91:ILE:HG22	2:PN:107:TYR:HB3	2.01	0.42
2:Ph:140:LEU:CD1	2:Ph:153:PHE:HB3	2.50	0.42
2:Pi:2:PHE:HB3	2:RR:97:ASN:HB3	2.01	0.42
2:Pk:19:ASN:OD1	2:Pk:19:ASN:N	2.51	0.42
2:Pn:1:MET:HE3	2:Pn:1:MET:HB2	1.88	0.42
2:Pt:67:ASP:OD1	2:Pt:67:ASP:N	2.50	0.42
2:RD:132:LEU:HD21	2:RD:157:LEU:HD13	2.00	0.42
2:RE:94:GLY:HA3	2:RE:100:THR:OG1	2.19	0.42
2:RK:124:THR:O	2:RK:125:LYS:HB3	2.19	0.42
2:RL:15:PHE:CD2	2:Rq:150:ILE:HD11	2.54	0.42
2:RM:140:LEU:HD12	2:RM:140:LEU:HA	1.70	0.42
2:RS:131:GLY:O	2:RS:159:LEU:HA	2.20	0.42
2:RT:41:LEU:O	2:RT:42:PRO:C	2.62	0.42
1:K0:441:PHE:HD1	1:K0:441:PHE:HA	1.70	0.42
1:K1:455:LYS:HD3	1:K1:502:VAL:HG22	2.02	0.42
1:K3:310:TYR:CE2	1:K3:312:ASP:HB2	2.55	0.42
1:K6:285:ARG:HG2	1:K6:286:ASN:HD22	1.85	0.42
1:K8:16:GLN:HE21	1:K8:16:GLN:HB2	1.58	0.42
1:K9:210:PHE:O	1:K9:214:LEU:HG	2.20	0.42
1:K9:518:TYR:CE2	1:Ld:6:PRO:HD3	2.54	0.42
1:K9:579:PHE:CD2	2:Rs:30:GLN:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L0:32:LYS:HZ2	1:L0:64:TYR:HE2	1.68	0.42
1:L0:135:ASP:OD1	1:L0:136:ALA:N	2.50	0.42
1:L0:237:GLU:OE1	1:L0:284:ARG:NH2	2.38	0.42
1:L0:284:ARG:HG2	1:L0:289:ILE:HD13	2.01	0.42
1:L0:390:GLN:OE1	1:L0:407:CYS:HB3	2.19	0.42
1:L1:480:ARG:O	1:L1:482:ASP:N	2.52	0.42
1:L2:379:ALA:HB2	1:L2:454:TYR:CE2	2.54	0.42
1:L3:425:ASN:ND2	1:L3:436:TYR:OH	2.52	0.42
1:L4:299:ARG:H	1:L4:299:ARG:HG2	1.69	0.42
1:L4:563:ASN:ND2	1:L4:591:TYR:OH	2.34	0.42
1:L5:646:ALA:O	1:L5:647:THR:OG1	2.26	0.42
1:L6:57:PRO:HD3	1:L6:65:PHE:CE1	2.54	0.42
1:L7:518:TYR:CZ	1:L7:539:LYS:HG3	2.55	0.42
1:L7:654:LEU:HA	1:L7:654:LEU:HD23	1.80	0.42
1:L8:43:GLN:HG3	1:L8:77:ASP:OD1	2.20	0.42
1:LR:296:SER:O	1:LR:311:ILE:HG13	2.19	0.42
1:LU:110:TYR:CD1	1:LU:177:GLY:HA3	2.54	0.42
1:LV:137:ASP:OD1	1:LV:137:ASP:N	2.52	0.42
1:LW:116:ILE:N	1:LW:129:GLY:O	2.53	0.42
1:LX:470:LEU:O	1:LX:474:ILE:HG12	2.19	0.42
1:LY:121:VAL:HG22	1:LY:166:ASN:HB2	2.01	0.42
1:LZ:406:LEU:HD22	1:LZ:474:ILE:HG13	2.01	0.42
1:Lb:423:VAL:HG21	1:Lb:513:GLN:HB3	2.01	0.42
1:Ld:47:GLU:OE1	1:Ld:461:TYR:OH	2.29	0.42
1:Ld:131:ILE:HD11	1:Ld:171:ILE:HD13	2.00	0.42
1:Ld:572:LEU:HD12	1:Ld:572:LEU:HA	1.67	0.42
1:Le:219:ILE:H	1:Le:219:ILE:HD13	1.84	0.42
1:Lv:116:ILE:HD11	1:Lv:131:ILE:HG13	2.02	0.42
1:Lw:33:PHE:HA	1:Lw:61:THR:CG2	2.50	0.42
1:Lw:121:VAL:HG23	1:Lw:123:ASP:OD2	2.19	0.42
1:M0:32:LYS:NZ	1:M0:60:GLU:HB3	2.34	0.42
1:M2:451:ASP:CG	1:M2:452:GLY:H	2.27	0.42
1:M3:266:LYS:HE3	1:M3:266:LYS:HB3	1.74	0.42
1:M7:35:TRP:O	1:M7:54:PHE:HA	2.19	0.42
1:M9:133:GLU:HB2	1:M9:142:LYS:HB3	2.01	0.42
1:M9:351:THR:HG23	1:M9:354:ASP:H	1.84	0.42
1:MU:159:GLU:OE2	1:MU:166:ASN:ND2	2.52	0.42
1:MW:202:GLU:H	1:MW:202:GLU:HG3	1.58	0.42
1:MW:505:LEU:HD22	1:MW:533:TYR:HD2	1.84	0.42
1:MX:12:GLU:H	1:MX:12:GLU:HG2	1.53	0.42
1:MX:36:GLY:O	1:MX:226:TYR:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MX:130:LYS:NZ	1:MX:132:THR:HG22	2.35	0.42
1:MY:90:LYS:HB3	1:MY:191:SER:OG	2.20	0.42
1:MY:451:ASP:O	1:MY:522:ILE:HG23	2.19	0.42
1:Ma:109:ASN:HB2	1:Ma:177:GLY:HA2	2.01	0.42
1:Mb:450:ILE:HG12	1:Mb:522:ILE:HG23	2.00	0.42
1:Mb:604:TYR:HA	1:Mb:628:TYR:O	2.19	0.42
1:Mc:601:ILE:CG2	1:Mc:629:ILE:HD12	2.50	0.42
1:Me:430:ARG:NH2	1:Me:443:ILE:O	2.52	0.42
1:Me:526:THR:OG1	1:Me:527:GLY:N	2.50	0.42
1:Mv:654:LEU:HD22	1:Mw:605:ARG:HD3	2.02	0.42
1:Mw:650:ASP:C	1:Mw:652:ASP:H	2.28	0.42
1:Mx:455:LYS:HG3	1:Mx:456:TYR:O	2.19	0.42
1:Mx:617:VAL:HG22	1:Mx:622:GLU:HB2	2.02	0.42
1:Mz:94:PRO:HD3	1:Mz:222:VAL:O	2.20	0.42
1:NV:463:ASP:OD1	1:NW:317:LYS:NZ	2.45	0.42
1:NW:365:ARG:HA	1:NW:400:ARG:NH2	2.34	0.42
1:NX:131:ILE:HD11	1:NX:171:ILE:HD13	2.01	0.42
1:Na:296:SER:O	1:Na:311:ILE:HG13	2.20	0.42
1:Nb:252:LEU:HD22	1:Nb:335:SER:O	2.20	0.42
1:Nd:382:SER:OG	1:Nd:385:THR:HG22	2.19	0.42
1:Nf:455:LYS:HE2	1:Nf:473:ASP:OD1	2.19	0.42
1:Nv:441:PHE:CZ	1:Nv:443:ILE:HD11	2.55	0.42
1:Nw:159:GLU:OE2	1:Nw:166:ASN:ND2	2.47	0.42
1:Nz:107:GLY:HA3	1:Nz:110:TYR:HE2	1.85	0.42
2:OF:132:LEU:HA	2:OF:158:ALA:O	2.19	0.42
2:OH:1:MET:HB2	2:Om:120:ALA:HB1	2.02	0.42
2:OL:56:ARG:HB3	2:OL:56:ARG:NH1	2.31	0.42
2:OO:34:PHE:CE2	2:Rt:8:ARG:HD2	2.55	0.42
2:Ol:25:ILE:O	2:Ol:26:SER:OG	2.28	0.42
2:Om:104:PRO:HA	2:Om:107:TYR:CE2	2.55	0.42
2:Oo:61:ALA:HA	2:PJ:133:TRP:CH2	2.54	0.42
2:Oo:150:ILE:HG12	2:Oo:151:GLN:N	2.33	0.42
2:Op:41:LEU:HD13	2:PK:142:LEU:HD22	2.01	0.42
2:Os:94:GLY:HA3	2:Os:100:THR:OG1	2.19	0.42
2:Ot:131:GLY:O	2:Ot:159:LEU:HA	2.19	0.42
2:PC:45:ILE:HA	2:Ph:135:THR:O	2.20	0.42
2:PD:39:THR:HG22	2:PD:71:VAL:HG22	2.01	0.42
2:PD:67:ASP:OD1	2:PD:67:ASP:N	2.39	0.42
2:PO:140:LEU:HD12	2:PO:140:LEU:HA	1.76	0.42
2:Pi:73:VAL:HG12	2:Pi:74:MET:O	2.19	0.42
2:Pi:76:ASP:OD2	2:Pi:81:ALA:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pq:140:LEU:HD12	2:Pq:140:LEU:HA	1.84	0.42
2:Pr:56:ARG:HB3	2:Pr:56:ARG:NH1	2.34	0.42
2:RD:114:ARG:NH2	2:RD:116:TYR:OH	2.39	0.42
2:RM:1:MET:HE3	2:RM:1:MET:HB2	1.80	0.42
2:RM:106:GLU:O	2:RM:109:LYS:NZ	2.50	0.42
2:RN:64:ARG:HG2	2:RN:64:ARG:HH11	1.84	0.42
2:RR:116:TYR:CE1	2:RR:123:VAL:HG22	2.54	0.42
2:Rl:107:TYR:CD1	2:Rl:108:LYS:HG3	2.55	0.42
2:Rl:112:ILE:HD11	2:Rl:126:GLU:OE2	2.19	0.42
2:Rp:37:LYS:HZ1	2:Rp:152:THR:HG21	1.85	0.42
1:K1:120:TYR:HE1	1:K1:166:ASN:HD22	1.67	0.42
1:K1:653:GLU:H	1:K1:653:GLU:HG2	1.60	0.42
1:K3:32:LYS:HD3	1:K3:64:TYR:CE2	2.54	0.42
1:K3:57:PRO:HG3	1:K3:65:PHE:CD1	2.54	0.42
1:K4:511:GLN:OE1	1:LY:5:SER:OG	2.36	0.42
1:K4:517:LEU:HD12	1:K4:517:LEU:HA	1.73	0.42
1:K7:66:MET:O	1:K7:70:ASN:ND2	2.50	0.42
1:K7:355:LEU:HD23	1:K7:355:LEU:HA	1.87	0.42
1:K7:614:THR:C	1:K7:616:SER:H	2.27	0.42
1:K9:616:SER:O	1:K9:620:ARG:HG2	2.20	0.42
1:L0:116:ILE:HG12	1:L0:130:LYS:HA	2.01	0.42
1:L0:269:PHE:CZ	1:L0:280:ALA:HB1	2.55	0.42
1:L0:271:TYR:CD2	1:Le:545:PRO:HB3	2.54	0.42
1:L4:383:LEU:HD11	1:L4:436:TYR:CE2	2.53	0.42
1:L4:470:LEU:HD12	1:L4:470:LEU:HA	1.75	0.42
1:L4:646:ALA:O	1:L4:650:ASP:HB3	2.19	0.42
1:L5:411:ARG:O	1:L5:415:VAL:HB	2.20	0.42
1:L5:426:LEU:HA	1:L5:426:LEU:HD23	1.77	0.42
1:L6:110:TYR:CD1	1:L6:177:GLY:HA3	2.55	0.42
1:L6:238:ILE:HG23	1:L6:281:ILE:HD13	2.01	0.42
1:L7:112:VAL:HG22	1:L7:134:VAL:HG22	2.01	0.42
1:L8:42:LYS:HE3	1:L8:42:LYS:HB3	1.84	0.42
1:L9:115:LYS:HD2	1:L9:115:LYS:HA	1.79	0.42
1:L9:410:PRO:O	1:L9:413:THR:HG22	2.19	0.42
1:LQ:230:LEU:HD23	1:LQ:230:LEU:HA	1.89	0.42
1:LR:298:LYS:HB2	1:LR:298:LYS:NZ	2.34	0.42
1:LS:398:ASP:O	1:LS:401:GLN:HG3	2.20	0.42
1:LU:304:ILE:HG13	1:LU:305:TYR:CD2	2.55	0.42
1:LU:346:SER:O	1:LU:350:VAL:HG23	2.20	0.42
1:LW:100:GLU:HG2	1:LW:186:LYS:O	2.19	0.42
1:LW:550:ARG:HB3	1:LW:553:VAL:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LX:131:ILE:HG21	1:LX:140:ILE:HG22	2.00	0.42
1:LY:229:GLU:HG2	1:LY:345:SER:HB2	2.02	0.42
1:Ld:394:VAL:HG11	1:Ld:443:ILE:HD12	2.00	0.42
1:Lv:646:ALA:O	1:Lv:647:THR:OG1	2.33	0.42
1:Lx:284:ARG:HG2	1:Lx:289:ILE:HD13	2.02	0.42
1:Lx:450:ILE:HD13	1:Lx:522:ILE:HG12	2.02	0.42
1:Lx:654:LEU:HD23	1:Lx:654:LEU:HA	1.82	0.42
1:Lz:432:ALA:HB2	1:Lz:440:ASN:ND2	2.33	0.42
1:M0:269:PHE:CZ	1:M0:280:ALA:HB1	2.54	0.42
1:M0:560:LEU:O	1:M0:564:ILE:HG23	2.19	0.42
1:M1:517:LEU:HD12	1:M1:517:LEU:HA	1.84	0.42
1:M1:572:LEU:HA	1:M1:572:LEU:HD12	1.64	0.42
1:M2:90:LYS:NZ	1:M2:190:ASP:OD1	2.39	0.42
1:M2:569:LYS:HE2	1:M2:569:LYS:HB3	1.63	0.42
1:M5:220:PRO:HG2	1:M5:338:LEU:HD11	2.02	0.42
1:M6:601:ILE:HG21	1:M6:629:ILE:HB	2.00	0.42
1:M8:331:PRO:O	1:M8:333:GLY:N	2.51	0.42
1:M9:24:THR:O	1:M9:483:ASN:ND2	2.48	0.42
1:M9:285:ARG:HH21	1:M9:322:TYR:HE2	1.67	0.42
1:MS:32:LYS:NZ	1:MS:60:GLU:OE2	2.50	0.42
1:MS:252:LEU:HB3	1:MS:336:GLY:HA2	2.02	0.42
1:MU:302:LYS:NZ	1:MU:306:ASP:O	2.53	0.42
1:MV:440:ASN:HD22	1:MV:442:ASN:HB3	1.85	0.42
1:MW:494:TYR:OH	1:MX:569:LYS:HD3	2.19	0.42
1:MX:538:ASP:N	1:MX:538:ASP:OD1	2.52	0.42
1:MY:430:ARG:NH2	1:MY:541:ALA:HB1	2.34	0.42
1:MZ:355:LEU:HD23	1:MZ:355:LEU:HA	1.86	0.42
1:Ma:30:ALA:HB3	1:Ma:359:TRP:CE2	2.54	0.42
1:Mc:650:ASP:C	1:Mc:652:ASP:H	2.26	0.42
1:Md:451:ASP:OD1	1:Md:452:GLY:N	2.45	0.42
1:Me:198:ILE:HG23	1:Me:324:PHE:HE2	1.85	0.42
1:Mv:536:TYR:HD1	1:Mv:536:TYR:HA	1.64	0.42
1:Mw:184:LEU:HD23	1:Mw:184:LEU:HA	1.84	0.42
1:Mw:243:ASP:HA	1:Mw:246:LYS:HZ3	1.83	0.42
1:Mz:20:VAL:HG21	1:Mz:46:ASN:HD21	1.84	0.42
1:NV:456:TYR:HD1	1:NV:456:TYR:HA	1.75	0.42
1:NW:467:TRP:CH2	1:NX:199:GLU:HB2	2.55	0.42
1:NZ:39:PHE:H	1:NZ:39:PHE:HD1	1.67	0.42
1:Na:39:PHE:HB3	1:Na:361:PHE:CE1	2.54	0.42
1:Nb:31:GLY:HA3	1:Nb:64:TYR:CD1	2.54	0.42
1:Nb:653:GLU:O	1:Nb:654:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nd:571:ARG:HA	1:Nd:571:ARG:HD3	1.96	0.42
1:Ne:417:ILE:HG21	1:Ne:421:ARG:HG2	2.01	0.42
1:Nf:269:PHE:HE1	1:Nf:282:ILE:HG12	1.83	0.42
1:Nf:379:ALA:HB2	1:Nf:454:TYR:CE2	2.54	0.42
1:Nf:383:LEU:HD11	1:Nf:436:TYR:HE1	1.85	0.42
1:Ng:94:PRO:HD3	1:Ng:222:VAL:O	2.20	0.42
1:Nh:72:LEU:HA	1:Nh:72:LEU:HD13	1.81	0.42
1:Ni:494:TYR:CE2	1:Nj:569:LYS:HD3	2.55	0.42
1:Nj:83:ALA:HB2	1:Nj:358:ALA:HB2	2.02	0.42
1:Nv:383:LEU:HD11	1:Nv:436:TYR:CE2	2.55	0.42
1:Nx:184:LEU:HA	1:Nx:184:LEU:HD23	1.73	0.42
1:Nz:36:GLY:O	1:Nz:82:ARG:NH1	2.53	0.42
1:Nz:572:LEU:HD12	1:Nz:572:LEU:HA	1.74	0.42
2:OC:132:LEU:HD12	2:OC:158:ALA:O	2.20	0.42
2:OF:124:THR:O	2:OF:125:LYS:HB3	2.20	0.42
2:OM:151:GLN:HE22	2:Rr:115:GLN:HE21	1.67	0.42
2:Oh:140:LEU:HD12	2:Oh:140:LEU:HA	1.68	0.42
2:Oi:1:MET:HE3	2:Oi:1:MET:HB2	1.64	0.42
2:Oi:85:PHE:CD2	2:Oi:155:VAL:HG11	2.54	0.42
2:Ok:64:ARG:HB3	2:PF:93:ALA:HB1	2.02	0.42
2:Oo:64:ARG:HH21	2:PJ:89:GLN:HG2	1.84	0.42
2:Or:114:ARG:HB3	2:Or:123:VAL:HG13	2.01	0.42
2:PL:107:TYR:O	2:PL:133:TRP:HB3	2.19	0.42
2:Pk:106:GLU:O	2:Pk:109:LYS:NZ	2.52	0.42
2:Pk:124:THR:OG1	2:RF:77:GLU:O	2.31	0.42
2:Pl:83:GLN:NE2	2:Pl:87:ASP:OD1	2.52	0.42
2:Pq:108:LYS:NZ	2:Pq:160:ASP:OD2	2.51	0.42
2:RH:57:LYS:HB3	2:RH:57:LYS:HE2	1.59	0.42
2:RI:1:MET:HE3	2:RI:1:MET:HB2	1.78	0.42
2:RI:25:ILE:HB	2:RI:28:LEU:HD12	2.00	0.42
1:K0:20:VAL:HG21	1:K0:46:ASN:HD21	1.85	0.42
1:K0:170:GLU:OE1	1:K0:171:ILE:N	2.43	0.42
1:K0:219:ILE:HD13	1:K0:219:ILE:H	1.84	0.42
1:K0:654:LEU:HD23	1:K0:654:LEU:HA	1.91	0.42
1:K2:202:GLU:H	1:K2:202:GLU:HG3	1.57	0.42
1:K3:137:ASP:N	1:K3:137:ASP:OD1	2.50	0.42
1:K3:505:LEU:HD21	1:K3:525:VAL:HG12	2.02	0.42
1:K4:142:LYS:NZ	1:K4:215:LYS:O	2.39	0.42
1:K6:193:ILE:HG21	1:K6:223:VAL:HG11	2.00	0.42
1:K7:205:MET:HB3	1:K7:205:MET:HE2	1.79	0.42
1:K8:392:HIS:O	1:K8:395:SER:OG	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K8:576:ASN:ND2	1:K8:622:GLU:O	2.52	0.42
1:L2:351:THR:HG23	1:L2:354:ASP:H	1.84	0.42
1:L3:561:LYS:HB3	1:MW:10:LEU:HD13	2.01	0.42
1:L3:644:ALA:O	1:L3:645:THR:OG1	2.38	0.42
1:L5:535:LEU:HD23	1:L5:535:LEU:HA	1.78	0.42
1:L5:571:ARG:HA	1:L5:571:ARG:HD3	1.94	0.42
1:L6:313:ASP:OD1	1:L6:313:ASP:N	2.50	0.42
1:L6:650:ASP:C	1:L6:652:ASP:N	2.78	0.42
1:L7:103:ILE:HD13	1:L7:182:ILE:HG22	2.01	0.42
1:L7:614:THR:C	1:L7:616:SER:H	2.28	0.42
1:L8:494:TYR:HE2	1:L8:528:THR:HG21	1.85	0.42
1:L9:16:GLN:HE21	1:L9:16:GLN:HB2	1.50	0.42
1:LQ:36:GLY:O	1:LQ:82:ARG:NH1	2.53	0.42
1:LQ:119:LYS:HE3	1:LQ:122:SER:HA	2.01	0.42
1:LQ:572:LEU:HD12	1:LQ:572:LEU:HA	1.88	0.42
1:LS:456:TYR:O	1:LS:503:ILE:HG23	2.19	0.42
1:LU:455:LYS:HD2	1:LU:502:VAL:HG22	2.02	0.42
1:LV:44:VAL:HG11	1:LV:50:LEU:HB2	2.00	0.42
1:LV:448:ALA:O	1:LV:541:ALA:HB3	2.20	0.42
1:LW:266:LYS:HE3	1:LW:266:LYS:HB3	1.86	0.42
1:LX:550:ARG:HB3	1:LX:553:VAL:HG12	2.02	0.42
1:La:51:VAL:HG22	1:La:65:PHE:CZ	2.54	0.42
1:La:480:ARG:NH2	1:La:498:GLN:O	2.49	0.42
1:Lc:344:LEU:HA	1:Lc:344:LEU:HD13	1.86	0.42
1:Le:159:GLU:O	1:Le:162:THR:N	2.47	0.42
1:Lv:72:LEU:HA	1:Lv:72:LEU:HD13	1.75	0.42
1:Lv:193:ILE:HB	1:Lv:210:PHE:CE1	2.54	0.42
1:Lv:637:TYR:HB2	1:Lw:622:GLU:HG2	2.01	0.42
1:Lw:480:ARG:O	1:Lw:484:VAL:HG12	2.20	0.42
1:M1:576:ASN:OD1	1:M1:618:ILE:HG12	2.20	0.42
1:M2:10:LEU:HD13	1:MX:561:LYS:HD3	2.02	0.42
1:M2:560:LEU:O	1:M2:564:ILE:HG12	2.19	0.42
1:M3:296:SER:O	1:M3:311:ILE:HG13	2.19	0.42
1:M3:470:LEU:O	1:M3:474:ILE:HG12	2.19	0.42
1:M5:298:LYS:HB2	1:M5:298:LYS:NZ	2.34	0.42
1:M7:455:LYS:HZ1	1:M7:473:ASP:CG	2.23	0.42
1:M8:389:VAL:O	1:M8:393:VAL:HG23	2.20	0.42
1:MQ:39:PHE:HB3	1:MQ:361:PHE:CE1	2.54	0.42
1:MQ:101:TYR:CE2	1:MQ:143:ILE:HG12	2.54	0.42
1:MR:11:LYS:HB3	1:MR:13:THR:HG23	2.02	0.42
1:MR:160:TYR:HA	1:MR:161:PRO:HA	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MV:374:ILE:HG22	1:MV:376:GLY:H	1.85	0.42
1:Md:291:GLN:HE22	1:Md:320:SER:HB2	1.84	0.42
1:Md:454:TYR:HB3	1:Md:467:TRP:CD1	2.54	0.42
1:Mx:130:LYS:HE2	1:Mx:130:LYS:HB2	1.90	0.42
1:Mx:571:ARG:NH2	1:Mx:587:GLU:OE1	2.29	0.42
1:NV:44:VAL:HG13	1:NV:49:ASP:HB2	2.02	0.42
1:NV:654:LEU:HA	1:NV:654:LEU:HD23	1.75	0.42
1:NW:404:LEU:HD22	1:NW:404:LEU:HA	1.90	0.42
1:NW:635:ILE:O	1:NX:573:PHE:HA	2.20	0.42
1:NX:94:PRO:HD3	1:NX:222:VAL:O	2.20	0.42
1:NZ:70:ASN:ND2	1:NZ:473:ASP:OD1	2.52	0.42
1:NZ:237:GLU:OE1	1:NZ:284:ARG:NH1	2.35	0.42
1:NZ:484:VAL:HG13	1:NZ:485:SER:N	2.34	0.42
1:Nb:211:GLN:OE1	1:Nb:329:ASN:ND2	2.53	0.42
1:Nc:126:GLU:OE2	1:Nc:128:GLU:HB2	2.19	0.42
1:Nc:456:TYR:O	1:Nc:503:ILE:HG12	2.18	0.42
1:Nd:642:PHE:CZ	1:Ne:564:ILE:HD11	2.55	0.42
1:Ni:220:PRO:HG2	1:Ni:338:LEU:HD11	2.00	0.42
1:Nv:352:ALA:O	1:Nv:356:MET:HG3	2.20	0.42
1:Nv:486:GLN:NE2	2:RC:11:GLU:OE1	2.48	0.42
1:Nz:480:ARG:C	1:Nz:482:ASP:N	2.77	0.42
2:OL:58:ILE:HD11	2:OM:6:VAL:HG21	2.02	0.42
2:OM:1:MET:HE3	2:OM:1:MET:HB2	1.84	0.42
2:Oh:96:GLY:O	2:RR:56:ARG:NH2	2.43	0.42
2:Oj:69:TRP:CE3	2:Oj:157:LEU:HD13	2.54	0.42
2:On:75:ASN:OD1	2:On:79:HIS:HA	2.18	0.42
2:Oq:107:TYR:O	2:Oq:133:TRP:HB3	2.20	0.42
2:Or:125:LYS:HD3	2:Or:126:GLU:H	1.84	0.42
2:Os:23:VAL:HG13	2:Os:36:CYS:SG	2.60	0.42
2:PC:64:ARG:HH12	2:Ph:94:GLY:C	2.28	0.42
2:PE:54:MET:HE2	2:PF:1:MET:HE1	2.01	0.42
2:PF:136:ASN:O	2:PF:136:ASN:ND2	2.52	0.42
2:PJ:129:ILE:HG23	2:PJ:159:LEU:HD13	2.02	0.42
2:PO:113:VAL:HG13	2:PO:127:ILE:HG12	2.01	0.42
2:Pl:1:MET:HE2	2:RG:120:ALA:HB1	2.02	0.42
2:Pq:15:PHE:HA	2:RL:76:ASP:HA	2.02	0.42
2:Pr:69:TRP:CZ3	2:Pr:132:LEU:HD21	2.54	0.42
2:RE:140:LEU:HD12	2:RE:140:LEU:HA	1.76	0.42
2:RG:115:GLN:HE21	2:RG:115:GLN:HB3	1.44	0.42
2:RK:116:TYR:CE1	2:RK:123:VAL:HG22	2.55	0.42
2:RL:20:LEU:HD13	2:RL:118:ARG:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RM:161:TYR:CD1	2:Rr:96:GLY:HA2	2.54	0.42
2:Rk:67:ASP:OD1	2:Rk:67:ASP:N	2.39	0.42
2:Rr:124:THR:O	2:Rr:125:LYS:HB3	2.20	0.42
1:K0:114:ASP:N	1:K0:114:ASP:OD1	2.49	0.42
1:K0:131:ILE:HD13	1:K0:140:ILE:HG21	2.02	0.42
1:K4:524:PRO:HG2	1:K4:536:TYR:HB3	2.02	0.42
1:K8:306:ASP:OD1	1:K8:306:ASP:N	2.50	0.42
1:K9:454:TYR:HB3	1:K9:467:TRP:HD1	1.85	0.42
1:L0:355:LEU:HD23	1:L0:355:LEU:HA	1.76	0.42
1:L0:393:VAL:HG12	1:L0:405:VAL:HG11	2.00	0.42
1:L0:438:ASP:OD1	1:L0:438:ASP:N	2.53	0.42
1:L1:538:ASP:O	1:L1:551:ILE:HG13	2.19	0.42
1:L2:107:GLY:HA3	1:L2:110:TYR:CE2	2.54	0.42
1:L5:8:ILE:HD13	1:La:569:LYS:NZ	2.34	0.42
1:L5:28:ALA:HB2	1:L5:370:VAL:HG21	2.02	0.42
1:L7:66:MET:SD	1:L7:459:ASP:HB2	2.60	0.42
1:L7:137:ASP:OD1	1:L7:137:ASP:N	2.43	0.42
1:L9:110:TYR:CG	1:L9:177:GLY:HA3	2.55	0.42
1:L9:261:ARG:NH1	1:L9:337:ILE:HD13	2.34	0.42
1:L9:651:PHE:CD2	1:L9:654:LEU:HD12	2.54	0.42
1:LR:137:ASP:OD1	1:LR:137:ASP:N	2.44	0.42
1:LR:527:GLY:HA2	1:LR:533:TYR:CD1	2.55	0.42
1:LU:480:ARG:C	1:LU:482:ASP:H	2.28	0.42
1:LU:638:ILE:HG23	1:LV:623:PHE:HD2	1.83	0.42
1:LV:470:LEU:HD12	1:LV:470:LEU:HA	1.73	0.42
1:LW:302:LYS:HA	1:LW:302:LYS:HD3	1.86	0.42
1:LX:514:ARG:NH1	1:LY:366:GLU:OE2	2.53	0.42
1:LY:417:ILE:HD13	1:LY:417:ILE:H	1.84	0.42
1:LY:527:GLY:O	1:LY:528:THR:C	2.62	0.42
1:La:26:THR:HA	1:La:77:ASP:O	2.19	0.42
1:Lc:35:TRP:O	1:Lc:54:PHE:HA	2.20	0.42
1:Lc:115:LYS:HD2	1:Lc:115:LYS:HA	1.79	0.42
1:Lc:644:ALA:O	1:Lc:645:THR:OG1	2.35	0.42
1:Le:195:LEU:H	1:Le:195:LEU:HG	1.60	0.42
1:Lv:11:LYS:HB3	1:Lv:11:LYS:HE2	1.83	0.42
1:Lv:102:THR:N	1:Lv:183:THR:O	2.52	0.42
1:Lw:101:TYR:O	1:Lw:216:LYS:NZ	2.49	0.42
1:M0:222:VAL:HG11	1:M0:236:ILE:HG12	2.01	0.42
1:M1:403:CYS:O	1:M1:558:ASN:ND2	2.42	0.42
1:M1:455:LYS:HZ2	1:M1:457:GLN:HB2	1.85	0.42
1:M1:511:GLN:OE1	1:M1:514:ARG:NH2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M5:41:ILE:HD13	1:M5:81:VAL:HB	2.02	0.42
1:M5:57:PRO:HB3	1:M5:62:ALA:HA	2.01	0.42
1:M6:37:PRO:HG2	1:M6:42:LYS:HD2	2.01	0.42
1:M7:464:VAL:HG12	1:M8:313:ASP:HB3	2.01	0.42
1:M7:505:LEU:HD12	1:M7:505:LEU:HA	1.76	0.42
1:M8:40:GLN:H	1:M8:81:VAL:HG23	1.85	0.42
1:M9:83:ALA:HB2	1:M9:358:ALA:HB2	2.01	0.42
1:M9:518:TYR:CE2	1:M9:539:LYS:HD2	2.55	0.42
1:M9:569:LYS:O	1:M9:572:LEU:HB2	2.20	0.42
1:MQ:32:LYS:HE2	1:MQ:350:VAL:HB	2.01	0.42
1:MQ:571:ARG:NH1	1:MQ:584:PHE:HD1	2.18	0.42
1:MS:198:ILE:HG23	1:MS:324:PHE:CE2	2.52	0.42
1:MU:100:GLU:HG3	1:MU:185:GLY:HA3	2.00	0.42
1:MW:115:LYS:HD2	1:MW:115:LYS:HA	1.91	0.42
1:MX:131:ILE:HD13	1:MX:140:ILE:HG21	2.00	0.42
1:MX:510:ARG:HG2	1:MX:511:GLN:H	1.84	0.42
1:MY:100:GLU:OE2	1:MY:186:LYS:HG3	2.19	0.42
1:MZ:486:GLN:NE2	2:Op:11:GLU:OE1	2.46	0.42
1:Ma:426:LEU:HD23	1:Ma:426:LEU:HA	1.86	0.42
1:Mb:379:ALA:O	1:Mb:381:GLU:N	2.46	0.42
1:Mc:222:VAL:HG22	1:Mc:325:ALA:HB2	2.01	0.42
1:Mc:252:LEU:O	1:Mc:260:THR:HA	2.20	0.42
1:Md:57:PRO:HG3	1:Md:65:PHE:CD1	2.55	0.42
1:Md:79:ARG:HG3	1:Md:370:VAL:HG11	2.01	0.42
1:Mw:36:GLY:O	1:Mw:82:ARG:NH1	2.51	0.42
1:Mw:160:TYR:CZ	1:Mw:161:PRO:HB3	2.55	0.42
1:Mx:456:TYR:HD1	1:Mx:456:TYR:HA	1.74	0.42
1:Mz:641:ASN:OD1	1:Mz:641:ASN:N	2.53	0.42
1:NV:154:ALA:HA	1:NV:157:VAL:HG22	2.00	0.42
1:NX:57:PRO:HB3	1:NX:62:ALA:HA	2.00	0.42
1:NX:365:ARG:HA	1:NX:400:ARG:NH2	2.35	0.42
1:NZ:12:GLU:H	1:NZ:12:GLU:HG2	1.66	0.42
1:NZ:35:TRP:NE1	1:NZ:226:TYR:HD2	2.17	0.42
1:NZ:35:TRP:O	1:NZ:54:PHE:HA	2.20	0.42
1:Nb:299:ARG:H	1:Nb:299:ARG:HG2	1.60	0.42
1:Nc:160:TYR:CE2	1:Nc:161:PRO:HB3	2.55	0.42
1:Nc:609:ASP:OD1	1:Nc:611:THR:OG1	2.37	0.42
1:Nd:135:ASP:OD1	1:Nd:136:ALA:N	2.52	0.42
1:Ne:132:THR:OG1	1:Ne:142:LYS:HG2	2.20	0.42
1:Ne:281:ILE:O	1:Ne:292:SER:HA	2.20	0.42
1:Nf:119:LYS:HE3	1:Nf:122:SER:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nf:352:ALA:O	1:Nf:356:MET:HG3	2.20	0.42
1:Ng:505:LEU:HD12	1:Ng:505:LEU:HA	1.85	0.42
1:Nh:221:GLY:O	1:Nh:325:ALA:HA	2.20	0.42
1:Ni:446:THR:HG22	1:Ni:542:THR:HB	2.01	0.42
1:Nv:456:TYR:CD2	1:Nv:503:ILE:HD11	2.55	0.42
1:Nv:644:ALA:O	1:Nv:645:THR:OG1	2.35	0.42
1:Nw:643:VAL:HG21	1:Nx:628:TYR:CE2	2.55	0.42
1:Nz:455:LYS:HG3	1:Nz:468:VAL:HG23	2.02	0.42
2:OC:49:ILE:HD11	2:Oi:150:ILE:HB	2.01	0.42
2:OC:103:LYS:O	2:OC:106:GLU:HG2	2.20	0.42
2:OD:121:LYS:HE2	2:OD:121:LYS:HB3	1.87	0.42
2:OE:73:VAL:HG12	2:OE:74:MET:O	2.20	0.42
2:OJ:118:ARG:HA	2:OJ:118:ARG:HD2	1.82	0.42
2:OM:1:MET:O	2:PL:98:GLU:HA	2.19	0.42
2:OM:4:ASP:OD1	2:PL:97:ASN:ND2	2.49	0.42
2:OM:58:ILE:HD12	2:ON:6:VAL:HG21	2.02	0.42
2:Ok:53:PHE:CD1	2:Ol:6:VAL:HG13	2.54	0.42
2:On:142:LEU:HD12	2:On:142:LEU:HA	1.83	0.42
2:PD:1:MET:HE3	2:RC:99:ILE:HD12	2.00	0.42
2:PG:72:THR:HG22	2:PG:154:GLU:HG3	2.02	0.42
2:PK:57:LYS:HE2	2:PK:57:LYS:HB3	1.69	0.42
2:PL:76:ASP:OD2	2:PL:80:ASP:HB3	2.20	0.42
2:Pk:54:MET:H	2:Pk:54:MET:HG2	1.66	0.42
2:Pl:41:LEU:HA	2:Pl:42:PRO:HD3	1.93	0.42
2:Pl:46:VAL:HG22	2:Pl:64:ARG:HE	1.84	0.42
2:Pl:56:ARG:HB3	2:Pl:56:ARG:HH11	1.85	0.42
2:Pm:1:MET:HE3	2:Pm:1:MET:HB2	1.81	0.42
2:Pn:19:ASN:O	2:Pn:20:LEU:HB2	2.19	0.42
2:Pp:89:GLN:HG3	2:Pp:134:PRO:HG2	2.01	0.42
2:Pr:49:ILE:HD11	2:RN:150:ILE:HB	2.02	0.42
2:Pt:104:PRO:HB3	2:Pt:108:LYS:HD2	2.01	0.42
2:RD:1:MET:HB2	2:RD:1:MET:HE3	1.68	0.42
2:RF:69:TRP:HZ3	2:RF:132:LEU:HD21	1.85	0.42
2:RG:1:MET:HB2	2:RG:1:MET:HE3	1.72	0.42
2:RH:140:LEU:HD12	2:RH:140:LEU:HA	1.64	0.42
2:RJ:27:TYR:CE1	2:RJ:109:LYS:HE2	2.54	0.42
2:RJ:91:ILE:HG21	2:RJ:106:GLU:O	2.19	0.42
2:RN:88:TRP:CE2	2:RN:134:PRO:HD3	2.55	0.42
2:Rn:75:ASN:HD22	2:Rn:140:LEU:HD21	1.85	0.42
2:Rq:121:LYS:HE2	2:Rq:121:LYS:HB3	1.87	0.42
1:K0:39:PHE:CE1	1:K0:83:ALA:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K1:456:TYR:HB3	1:K1:504:LYS:HB3	2.01	0.42
1:K1:642:PHE:CE2	1:K2:564:ILE:HD11	2.55	0.42
1:K2:598:LEU:HD23	1:K2:598:LEU:HA	1.89	0.42
1:K6:74:TYR:CD1	1:K6:476:GLY:HA3	2.55	0.42
1:K7:95:ILE:HD13	1:K7:213:ASN:HB2	2.02	0.42
1:K8:567:SER:O	1:K8:571:ARG:NH1	2.53	0.42
1:K9:453:ASN:HB2	1:K9:506:ALA:HB3	2.02	0.42
1:K9:645:THR:HB	1:K9:650:ASP:OD1	2.20	0.42
1:L0:253:PRO:HA	1:L0:260:THR:HG22	2.01	0.42
1:L1:473:ASP:HB3	1:L1:499:ILE:HG23	2.02	0.42
1:L1:484:VAL:HG13	1:L1:485:SER:H	1.85	0.42
1:L6:2:THR:OG1	1:L6:3:LEU:N	2.50	0.42
1:L7:332:GLU:H	1:L7:332:GLU:CD	2.27	0.42
1:LQ:480:ARG:C	1:LQ:482:ASP:H	2.28	0.42
1:LQ:514:ARG:NH1	1:LR:366:GLU:OE2	2.52	0.42
1:LR:381:GLU:HB3	1:LR:385:THR:HG23	2.01	0.42
1:LV:394:VAL:HG11	1:LV:443:ILE:HD12	2.02	0.42
1:LX:107:GLY:HA3	1:LX:110:TYR:HE2	1.85	0.42
1:LX:387:SER:O	1:LX:391:LYS:HG3	2.20	0.42
1:LY:653:GLU:H	1:LY:653:GLU:HG2	1.57	0.42
1:La:355:LEU:HD23	1:La:355:LEU:HA	1.88	0.42
1:Lc:128:GLU:HB2	1:Lc:146:PRO:HG2	2.01	0.42
1:Lw:120:TYR:CE2	1:Lw:157:VAL:HG11	2.55	0.42
1:M0:119:LYS:HZ3	1:M0:124:ASP:CG	2.27	0.42
1:M0:205:MET:HE2	1:M0:205:MET:HB3	1.79	0.42
1:M2:645:THR:HB	1:M2:650:ASP:OD1	2.20	0.42
1:M3:42:LYS:HE3	1:M3:42:LYS:HB3	1.79	0.42
1:M5:16:GLN:OE1	1:M5:460:LYS:HD3	2.20	0.42
1:M5:115:LYS:HD2	1:M5:115:LYS:HA	1.86	0.42
1:M7:26:THR:HA	1:M7:77:ASP:HB3	2.02	0.42
1:M7:614:THR:C	1:M7:616:SER:H	2.28	0.42
1:M8:195:LEU:HD13	1:M8:198:ILE:HD11	2.00	0.42
1:M9:373:PHE:HB2	1:M9:405:VAL:HG22	2.01	0.42
1:MR:100:GLU:OE1	1:MR:186:LYS:NZ	2.49	0.42
1:MR:644:ALA:O	1:MR:645:THR:OG1	2.38	0.42
1:MS:389:VAL:O	1:MS:393:VAL:HG23	2.20	0.42
1:MU:428:ASN:HB3	1:MU:433:ALA:O	2.20	0.42
1:MX:39:PHE:CE1	1:MX:86:ARG:HD2	2.53	0.42
1:MX:557:PHE:CE1	1:MX:629:ILE:HD11	2.55	0.42
1:MY:79:ARG:NH2	1:MY:369:ASP:OD1	2.44	0.42
1:Md:368:VAL:HG12	1:Md:370:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Md:413:THR:OG1	1:Md:425:ASN:HB3	2.19	0.42
1:Me:368:VAL:O	1:Me:400:ARG:NH2	2.53	0.42
1:Me:375:ALA:HB1	1:Me:390:GLN:HG2	2.02	0.42
1:Me:478:CYS:O	1:Me:555:ARG:NH1	2.48	0.42
1:Mv:110:TYR:CG	1:Mv:177:GLY:HA3	2.55	0.42
1:Mv:225:LEU:HG	1:Mv:226:TYR:CE1	2.55	0.42
1:Mv:645:THR:HB	1:Mv:650:ASP:OD1	2.20	0.42
1:Mw:440:ASN:ND2	1:Mw:442:ASN:HB2	2.34	0.42
1:Mw:538:ASP:N	1:Mw:538:ASP:OD1	2.53	0.42
1:Mz:480:ARG:O	1:Mz:484:VAL:HG12	2.20	0.42
1:NW:72:LEU:HA	1:NW:72:LEU:HD12	1.81	0.42
1:NW:246:LYS:HB2	1:NW:250:ALA:HB2	2.01	0.42
1:NZ:556:LEU:HD21	1:NZ:629:ILE:HD11	2.00	0.42
1:Na:455:LYS:NZ	1:Na:473:ASP:OD1	2.50	0.42
1:Na:504:LYS:HG2	1:Na:505:LEU:N	2.35	0.42
1:Nb:37:PRO:HG2	1:Nb:42:LYS:HD3	2.00	0.42
1:Nb:119:LYS:HA	1:Nb:124:ASP:HA	2.01	0.42
1:Nd:119:LYS:HG2	1:Nd:124:ASP:OD1	2.20	0.42
1:Nd:494:TYR:HE2	1:Nd:528:THR:HG21	1.85	0.42
1:Ne:72:LEU:HD13	1:Ne:72:LEU:HA	1.76	0.42
1:Ne:102:THR:N	1:Ne:183:THR:O	2.52	0.42
1:Ne:426:LEU:HA	1:Ne:426:LEU:HD23	1.84	0.42
1:Nf:42:LYS:HE3	1:Nf:42:LYS:HB3	1.88	0.42
1:Ng:430:ARG:HH21	1:Ng:541:ALA:HB1	1.85	0.42
1:Ni:101:TYR:OH	1:Ni:216:LYS:O	2.36	0.42
1:Ni:103:ILE:HD13	1:Ni:182:ILE:HG12	2.02	0.42
1:Ni:355:LEU:HD23	1:Ni:355:LEU:HA	1.82	0.42
1:Nj:44:VAL:HG11	1:Nj:50:LEU:HB2	2.02	0.42
1:Nj:219:ILE:HG22	1:Nj:255:TYR:HD2	1.85	0.42
1:Nj:612:ASN:HB3	1:Nj:624:VAL:HG23	2.01	0.42
1:Nv:229:GLU:OE1	1:Nv:344:LEU:HA	2.20	0.42
1:Nw:34:GLN:OE1	1:Nw:58:THR:OG1	2.37	0.42
1:Nx:42:LYS:HE3	1:Nx:42:LYS:HB3	1.83	0.42
2:OI:54:MET:H	2:OI:54:MET:HG2	1.64	0.42
2:ON:41:LEU:HD11	2:ON:113:VAL:HG21	2.01	0.42
2:Ol:75:ASN:OD1	2:Ol:79:HIS:HA	2.20	0.42
2:Om:2:PHE:HA	2:Pl:98:GLU:HA	2.01	0.42
2:Oq:16:ALA:HB2	2:PL:76:ASP:O	2.20	0.42
2:Oq:104:PRO:O	2:Oq:108:LYS:HB2	2.20	0.42
2:Os:46:VAL:HG22	2:Os:64:ARG:HE	1.85	0.42
2:PI:85:PHE:CE2	2:PI:155:VAL:HG11	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pj:70:THR:HG22	2:Pj:156:THR:HG22	2.02	0.42
2:Pt:2:PHE:HB2	2:Pt:5:ASP:OD1	2.20	0.42
2:RF:19:ASN:O	2:RF:20:LEU:HB2	2.20	0.42
2:RG:27:TYR:CE1	2:RG:109:LYS:HE2	2.55	0.42
2:RM:115:GLN:HE21	2:RM:115:GLN:HB3	1.53	0.42
2:RO:72:THR:HG22	2:RO:154:GLU:HG3	2.02	0.42
2:Rt:72:THR:HG22	2:Rt:154:GLU:HG3	2.01	0.42
1:K0:409:PRO:HA	1:K0:429:TRP:CZ3	2.55	0.42
1:K0:455:LYS:NZ	1:K0:457:GLN:OE1	2.51	0.42
1:K0:470:LEU:HD12	1:K0:470:LEU:HA	1.85	0.42
1:K0:518:TYR:CZ	1:K0:539:LYS:HD3	2.55	0.42
1:K1:205:MET:HE2	1:K1:205:MET:HB3	1.93	0.42
1:K5:653:GLU:O	1:K5:654:LEU:HG	2.20	0.42
1:K6:36:GLY:O	1:K6:82:ARG:NH1	2.51	0.42
1:K7:100:GLU:OE2	1:K7:186:LYS:HG3	2.20	0.42
1:K7:462:ASN:HD22	1:K7:466:ARG:HH12	1.68	0.42
1:K7:554:ARG:O	1:K7:554:ARG:HD3	2.19	0.42
1:K7:571:ARG:NH2	1:K7:587:GLU:OE1	2.53	0.42
1:K8:455:LYS:NZ	1:K8:457:GLN:OE1	2.53	0.42
1:K9:130:LYS:HB2	1:K9:130:LYS:HE2	1.81	0.42
1:L0:66:MET:HE2	1:L0:69:MET:SD	2.60	0.42
1:L1:438:ASP:OD1	1:L1:438:ASP:N	2.50	0.42
1:L2:205:MET:HE2	1:L2:205:MET:HB3	1.89	0.42
1:L2:654:LEU:HD23	1:L2:654:LEU:HA	1.70	0.42
1:L4:291:GLN:OE1	1:L4:320:SER:OG	2.18	0.42
1:L6:39:PHE:HB3	1:L6:361:PHE:CE1	2.55	0.42
1:L6:209:ASP:OD1	1:L6:209:ASP:N	2.53	0.42
1:L6:560:LEU:CD2	1:L6:629:ILE:HD13	2.50	0.42
1:L7:72:LEU:HD12	1:L7:72:LEU:HA	1.82	0.42
1:L7:115:LYS:HA	1:L7:115:LYS:HD2	1.79	0.42
1:L7:584:PHE:O	1:L7:588:THR:OG1	2.33	0.42
1:L8:312:ASP:OD1	1:L8:327:ALA:N	2.40	0.42
1:L9:538:ASP:O	1:L9:551:ILE:HG13	2.20	0.42
1:LQ:151:ILE:O	1:LQ:155:LYS:HG2	2.20	0.42
1:LQ:505:LEU:HD12	1:LQ:505:LEU:HA	1.83	0.42
1:LR:612:ASN:HB3	1:LR:624:VAL:HG23	2.02	0.42
1:LU:317:LYS:HG2	1:LU:317:LYS:O	2.19	0.42
1:LU:423:VAL:O	1:LU:427:VAL:HG23	2.20	0.42
1:LZ:459:ASP:OD2	1:LZ:466:ARG:NH1	2.52	0.42
1:Lc:413:THR:OG1	1:Lc:425:ASN:HB3	2.19	0.42
1:Le:219:ILE:HG22	1:Le:255:TYR:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Le:302:LYS:O	1:Le:307:SER:N	2.53	0.42
1:Le:402:ASP:O	1:Le:558:ASN:ND2	2.52	0.42
1:Lw:577:ASN:HA	1:Lw:581:ARG:HH21	1.85	0.42
1:Lx:462:ASN:HD22	1:Lx:466:ARG:HH12	1.67	0.42
1:Lz:160:TYR:CE2	1:Lz:161:PRO:HB3	2.55	0.42
1:Lz:253:PRO:HG2	1:Lz:255:TYR:CE1	2.55	0.42
1:Lz:384:GLU:O	1:Lz:388:THR:OG1	2.27	0.42
1:Lz:400:ARG:HD3	1:Lz:403:CYS:SG	2.60	0.42
1:Lz:572:LEU:HA	1:Lz:572:LEU:HD12	1.67	0.42
1:M3:137:ASP:OD1	1:M3:138:GLY:N	2.49	0.42
1:M3:387:SER:O	1:M3:391:LYS:HG3	2.20	0.42
1:M6:41:ILE:HD11	1:M6:361:PHE:HB3	2.02	0.42
1:M6:641:ASN:HB2	1:M7:626:THR:HG23	2.01	0.42
1:M7:554:ARG:O	1:M7:554:ARG:HD3	2.20	0.42
1:M8:149:LYS:NZ	1:M8:149:LYS:HB3	2.35	0.42
1:M8:312:ASP:OD1	1:M8:327:ALA:N	2.46	0.42
1:MR:100:GLU:HA	1:MR:217:TYR:OH	2.20	0.42
1:MR:518:TYR:CD2	1:Mw:5:SER:HA	2.53	0.42
1:MZ:470:LEU:HA	1:MZ:470:LEU:HD12	1.81	0.42
1:Ma:115:LYS:HD2	1:Ma:115:LYS:HA	1.88	0.42
1:Mv:616:SER:O	1:Mv:620:ARG:NE	2.38	0.42
1:Mw:645:THR:HB	1:Mw:650:ASP:OD1	2.20	0.42
1:Mx:349:GLU:N	1:Mx:349:GLU:OE1	2.53	0.42
1:Mx:400:ARG:NH1	1:Mx:403:CYS:SG	2.86	0.42
1:Mz:372:LEU:HD12	1:Mz:372:LEU:HA	1.85	0.42
1:NV:642:PHE:CZ	1:NW:564:ILE:HD11	2.55	0.42
1:NX:74:TYR:CD1	1:NX:476:GLY:HA3	2.55	0.42
1:NZ:66:MET:SD	1:NZ:459:ASP:HB2	2.59	0.42
1:NZ:100:GLU:OE2	1:NZ:186:LYS:HG3	2.20	0.42
1:NZ:405:VAL:HG12	1:NZ:407:CYS:SG	2.60	0.42
1:Na:104:SER:HB2	1:Na:181:VAL:HB	2.01	0.42
1:Nc:34:GLN:HG2	1:Nc:230:LEU:HD12	2.01	0.42
1:Nc:114:ASP:N	1:Nc:114:ASP:OD1	2.52	0.42
1:Nc:378:CYS:SG	1:Nc:454:TYR:OH	2.55	0.42
1:Nd:229:GLU:H	1:Nd:229:GLU:HG2	1.49	0.42
1:Ne:94:PRO:HD3	1:Ne:222:VAL:O	2.20	0.42
1:Nf:46:ASN:OD1	1:Nf:47:GLU:N	2.52	0.42
1:Nf:427:VAL:O	1:Nf:431:THR:OG1	2.33	0.42
1:Ni:210:PHE:O	1:Ni:214:LEU:HG	2.20	0.42
1:Nj:39:PHE:HE1	1:Nj:86:ARG:HD2	1.85	0.42
1:Nv:110:TYR:CG	1:Nv:177:GLY:HA3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nv:246:LYS:HB2	1:Nv:250:ALA:HB2	2.02	0.42
1:Nv:310:TYR:CE2	1:Nv:312:ASP:HB2	2.54	0.42
1:Nw:577:ASN:C	1:Nw:581:ARG:HH21	2.28	0.42
1:Nx:383:LEU:HD11	1:Nx:436:TYR:HE2	1.84	0.42
1:Nz:495:ASN:OD1	1:Nz:495:ASN:N	2.53	0.42
2:OC:78:ALA:HA	2:RR:124:THR:HB	2.01	0.42
2:OG:41:LEU:HD12	2:OG:41:LEU:HA	1.80	0.42
2:OH:43:ALA:O	2:OH:162:TRP:NE1	2.52	0.42
2:OL:8:ARG:HG2	2:Oq:31:ASN:OD1	2.19	0.42
2:OM:20:LEU:HA	2:Rq:54:MET:HE3	2.02	0.42
2:OM:107:TYR:O	2:OM:133:TRP:HB3	2.20	0.42
2:ON:47:GLU:HB2	2:Ot:148:ASN:OD1	2.20	0.42
2:Oq:15:PHE:CD2	2:PL:150:ILE:HD11	2.55	0.42
2:Or:61:ALA:HA	2:PM:133:TRP:CH2	2.55	0.42
2:Or:120:ALA:HB3	2:Or:121:LYS:HD3	2.02	0.42
2:PI:14:ASP:OD1	2:PI:17:ARG:NH2	2.51	0.42
2:PM:114:ARG:HB3	2:PM:123:VAL:HG13	2.02	0.42
2:PN:67:ASP:OD1	2:PN:67:ASP:N	2.49	0.42
2:PN:82:ARG:HH11	2:PN:138:GLY:HA2	1.84	0.42
2:Pi:39:THR:HG22	2:Pi:71:VAL:HG22	2.02	0.42
2:Pi:54:MET:H	2:Pi:54:MET:HG2	1.48	0.42
2:Po:37:LYS:NZ	2:Po:152:THR:OG1	2.51	0.42
2:Pq:64:ARG:HD2	2:Pq:66:PHE:CZ	2.54	0.42
2:RM:75:ASN:HB3	2:RM:151:GLN:HB3	2.00	0.42
2:RN:120:ALA:HB2	2:Rr:99:ILE:O	2.20	0.42
2:RO:27:TYR:CE1	2:RO:109:LYS:HE2	2.55	0.42
2:RR:41:LEU:HG	2:RR:127:ILE:HD13	2.02	0.42
2:RR:82:ARG:HD2	2:RR:140:LEU:HD22	2.01	0.42
2:Rp:83:GLN:HA	2:Rp:86:VAL:HG22	2.01	0.42
2:Rr:64:ARG:HD2	2:Rr:66:PHE:CZ	2.55	0.42
2:Rr:118:ARG:HG3	2:Rr:118:ARG:O	2.20	0.42
1:K0:137:ASP:OD1	1:K0:138:GLY:N	2.53	0.41
1:K0:304:ILE:HG13	1:K0:305:TYR:CD2	2.55	0.41
1:K1:275:THR:OG1	1:K1:278:GLN:HG3	2.19	0.41
1:K3:69:MET:HE2	1:K3:69:MET:HB3	1.90	0.41
1:K3:236:ILE:HG22	1:K3:238:ILE:HG13	2.02	0.41
1:K3:387:SER:O	1:K3:391:LYS:HG3	2.20	0.41
1:K4:142:LYS:HB2	1:K4:142:LYS:HE2	1.64	0.41
1:K4:383:LEU:HD22	1:K4:439:ASN:HB3	2.01	0.41
1:K4:614:THR:C	1:K4:616:SER:H	2.28	0.41
1:K5:33:PHE:HA	1:K5:61:THR:HG23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K7:427:VAL:HG13	1:K7:520:GLU:HG3	2.02	0.41
1:K8:72:LEU:HD12	1:K8:72:LEU:HA	1.91	0.41
1:K8:427:VAL:O	1:K8:431:THR:OG1	2.27	0.41
1:K9:518:TYR:CZ	1:K9:539:LYS:HG3	2.55	0.41
1:L1:228:GLY:HA2	1:L1:345:SER:HB3	2.02	0.41
1:L2:430:ARG:O	1:L2:430:ARG:HD3	2.20	0.41
1:L4:633:ARG:HA	1:L4:633:ARG:HD2	1.84	0.41
1:L6:126:GLU:OE2	1:L6:128:GLU:N	2.50	0.41
1:L6:239:VAL:HG22	1:L6:280:ALA:HB3	2.02	0.41
1:L9:121:VAL:HG13	1:L9:166:ASN:HB3	2.02	0.41
1:L9:355:LEU:HD23	1:L9:355:LEU:HA	1.84	0.41
1:LR:480:ARG:O	1:LR:484:VAL:HG12	2.20	0.41
1:LS:163:LEU:HD23	1:LS:163:LEU:HA	1.90	0.41
1:LS:654:LEU:HD23	1:LS:654:LEU:HA	1.75	0.41
1:LV:151:ILE:O	1:LV:155:LYS:HG2	2.20	0.41
1:LV:571:ARG:HA	1:LV:571:ARG:HD3	1.94	0.41
1:LW:293:VAL:HG22	1:LW:294:VAL:H	1.85	0.41
1:LX:487:THR:OG1	1:LX:559:MET:HE3	2.19	0.41
1:LX:557:PHE:CE1	1:LX:629:ILE:HD11	2.55	0.41
1:LY:44:VAL:HG11	1:LY:50:LEU:HB2	2.00	0.41
1:La:94:PRO:HD3	1:La:222:VAL:O	2.20	0.41
1:La:134:VAL:HA	1:La:140:ILE:HA	2.02	0.41
1:Lb:379:ALA:HB1	1:Lb:411:ARG:HD2	2.01	0.41
1:Lb:453:ASN:N	1:Lb:453:ASN:OD1	2.52	0.41
1:Lb:538:ASP:O	1:Lb:551:ILE:HG13	2.20	0.41
1:Lc:505:LEU:HD22	1:Lc:533:TYR:HD2	1.85	0.41
1:Lv:151:ILE:HG22	1:Lv:187:ILE:HG13	2.02	0.41
1:Lw:100:GLU:HG2	1:Lw:186:LYS:O	2.20	0.41
1:Lw:221:GLY:O	1:Lw:325:ALA:HA	2.20	0.41
1:Lx:70:ASN:ND2	1:Lx:473:ASP:OD1	2.53	0.41
1:Lz:364:ASP:OD1	1:Lz:366:GLU:HG3	2.20	0.41
1:M0:202:GLU:H	1:M0:202:GLU:HG3	1.59	0.41
1:M1:16:GLN:OE1	1:M1:460:LYS:HB2	2.19	0.41
1:M1:317:LYS:NZ	1:Mz:463:ASP:OD1	2.53	0.41
1:M1:536:TYR:HD1	1:M1:536:TYR:HA	1.66	0.41
1:M2:312:ASP:OD1	1:M2:312:ASP:N	2.52	0.41
1:M5:198:ILE:HD11	1:M5:225:LEU:HD11	2.02	0.41
1:M5:305:TYR:CZ	1:MY:646:ALA:HB2	2.55	0.41
1:M6:36:GLY:O	1:M6:82:ARG:NH1	2.51	0.41
1:M7:612:ASN:OD1	1:M7:612:ASN:N	2.53	0.41
1:M8:349:GLU:N	1:M8:349:GLU:OE1	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M8:406:LEU:HD22	1:M8:474:ILE:HG13	2.02	0.41
1:MQ:432:ALA:HB2	1:MQ:440:ASN:HD22	1.84	0.41
1:MR:117:THR:HG22	1:MR:119:LYS:HG3	2.01	0.41
1:MR:251:LEU:HB3	1:MR:260:THR:HG22	2.01	0.41
1:MR:566:ARG:O	1:MR:569:LYS:HG2	2.20	0.41
1:MU:598:LEU:HD23	1:MU:598:LEU:HA	1.89	0.41
1:MU:642:PHE:CZ	1:MV:564:ILE:HD11	2.55	0.41
1:MU:645:THR:HB	1:MU:650:ASP:OD1	2.20	0.41
1:MV:162:THR:O	1:MV:186:LYS:HB3	2.20	0.41
1:MV:467:TRP:HZ3	1:MW:199:GLU:HB2	1.84	0.41
1:MV:614:THR:C	1:MV:616:SER:H	2.28	0.41
1:MX:26:THR:HB	1:MX:77:ASP:HB3	2.01	0.41
1:MX:436:TYR:HB3	1:MX:439:ASN:O	2.20	0.41
1:MY:378:CYS:HB3	1:MY:390:GLN:HE22	1.84	0.41
1:MZ:252:LEU:HG	1:MZ:263:SER:HB3	2.03	0.41
1:MZ:630:GLN:HA	1:MZ:631:PRO:HD3	1.92	0.41
1:Mb:24:THR:O	1:Mb:483:ASN:ND2	2.34	0.41
1:Mb:94:PRO:HD3	1:Mb:222:VAL:O	2.20	0.41
1:Mb:151:ILE:O	1:Mb:155:LYS:HG2	2.20	0.41
1:Mb:417:ILE:HD13	1:Mb:417:ILE:H	1.84	0.41
1:Mb:557:PHE:CE1	1:Mb:629:ILE:HD11	2.55	0.41
1:Md:490:SER:O	1:Md:496:ARG:HD2	2.20	0.41
1:Me:41:ILE:HD11	1:Me:361:PHE:HB3	2.02	0.41
1:Me:304:ILE:HG13	1:Me:305:TYR:CD2	2.55	0.41
1:Mv:497:GLY:O	1:Mv:534:VAL:HA	2.20	0.41
1:Mw:572:LEU:O	1:Mw:574:GLU:HB2	2.20	0.41
1:Mx:42:LYS:HE3	1:Mx:42:LYS:HB3	1.78	0.41
1:Mz:643:VAL:HG13	1:NZ:14:THR:HG22	2.01	0.41
1:NV:485:SER:OG	1:NV:486:GLN:N	2.52	0.41
1:NV:650:ASP:O	1:NV:653:GLU:HG2	2.19	0.41
1:NZ:251:LEU:HA	1:NZ:262:ALA:HA	2.02	0.41
1:NZ:390:GLN:HE22	1:NZ:408:SER:H	1.68	0.41
1:Nb:29:LEU:HD12	1:Nb:30:ALA:H	1.85	0.41
1:Nb:296:SER:OG	1:Nb:297:THR:N	2.52	0.41
1:Nb:441:PHE:CZ	1:Nb:443:ILE:HD11	2.55	0.41
1:Nc:564:ILE:HG12	1:Nc:564:ILE:H	1.65	0.41
1:Nd:105:THR:O	1:Nd:180:ALA:HA	2.19	0.41
1:Ne:107:GLY:HA3	1:Ne:110:TYR:CE2	2.55	0.41
1:Ne:646:ALA:O	1:Ne:647:THR:OG1	2.23	0.41
1:Nf:39:PHE:HB3	1:Nf:361:PHE:CE1	2.55	0.41
1:Nf:39:PHE:CE1	1:Nf:86:ARG:HD2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nf:379:ALA:HB2	1:Nf:454:TYR:HE2	1.85	0.41
1:Nh:494:TYR:HE2	1:Nh:528:THR:HG21	1.85	0.41
1:Ni:592:LEU:HD13	1:Ni:592:LEU:HA	1.86	0.41
1:Nj:114:ASP:N	1:Nj:114:ASP:OD1	2.53	0.41
1:Nj:453:ASN:OD1	1:Nj:525:VAL:HB	2.20	0.41
1:Nw:228:GLY:HA2	1:Nw:345:SER:HB3	2.01	0.41
1:Nw:572:LEU:HD12	1:Nw:572:LEU:HA	1.63	0.41
1:Nw:654:LEU:HD23	1:Nw:654:LEU:HA	1.92	0.41
1:Nx:430:ARG:NH2	1:Nx:541:ALA:HB1	2.35	0.41
1:Nx:582:SER:HA	1:Nx:585:ARG:NH1	2.35	0.41
1:Nz:228:GLY:HA2	1:Nz:345:SER:HB3	2.01	0.41
1:Nz:304:ILE:H	1:Nz:304:ILE:HG12	1.59	0.41
2:OG:82:ARG:NH2	2:Rl:42:PRO:O	2.50	0.41
2:OI:53:PHE:HD1	2:OI:53:PHE:HA	1.77	0.41
2:OM:115:GLN:HE21	2:OM:115:GLN:HB3	1.48	0.41
2:ON:124:THR:O	2:ON:125:LYS:HB3	2.21	0.41
2:Oo:132:LEU:HA	2:Oo:158:ALA:O	2.20	0.41
2:Oq:14:ASP:OD1	2:Oq:17:ARG:NH2	2.48	0.41
2:PE:49:ILE:HD11	2:Pk:150:ILE:HG23	2.02	0.41
2:PK:124:THR:HB	2:Pp:78:ALA:HA	2.01	0.41
2:PN:117:ALA:HB2	2:PN:124:THR:HG23	2.01	0.41
2:Ph:2:PHE:HB2	2:Ph:5:ASP:OD1	2.20	0.41
2:Ph:58:ILE:CD1	2:Pi:6:VAL:HG21	2.49	0.41
2:Ph:64:ARG:HB2	2:RC:93:ALA:HB1	2.02	0.41
2:Ph:136:ASN:O	2:Ph:136:ASN:ND2	2.53	0.41
2:Pi:14:ASP:O	2:RD:77:GLU:HB2	2.19	0.41
2:Pj:132:LEU:HD12	2:Pj:132:LEU:HA	1.82	0.41
2:Pm:140:LEU:HA	2:Pm:140:LEU:HD12	1.78	0.41
2:Pn:143:ASP:OD1	2:Pn:144:TRP:N	2.53	0.41
2:Pp:107:TYR:O	2:Pp:133:TRP:HB3	2.20	0.41
2:RH:136:ASN:O	2:RH:136:ASN:ND2	2.41	0.41
2:RN:27:TYR:CE1	2:RN:109:LYS:HE2	2.55	0.41
2:RR:39:THR:HG22	2:RR:71:VAL:HG22	2.03	0.41
2:RR:109:LYS:O	2:RR:132:LEU:HB3	2.20	0.41
2:RS:27:TYR:CG	2:RS:109:LYS:HG3	2.54	0.41
2:RS:56:ARG:HB3	2:RS:56:ARG:NH1	2.35	0.41
2:Rr:37:LYS:NZ	2:Rr:152:THR:OG1	2.48	0.41
1:K0:107:GLY:HA3	1:K0:180:ALA:HB2	2.01	0.41
1:K0:366:GLU:OE1	1:K0:367:SER:N	2.53	0.41
1:K0:538:ASP:N	1:K0:538:ASP:OD1	2.51	0.41
1:K3:13:THR:HB	1:K3:14:THR:H	1.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K4:366:GLU:H	1:K4:366:GLU:HG3	1.65	0.41
1:K6:451:ASP:OD2	1:K6:470:LEU:HB3	2.19	0.41
1:K7:244:TYR:CD1	1:K7:265:ALA:HB1	2.56	0.41
1:K7:641:ASN:HB2	1:K8:626:THR:HG23	2.02	0.41
1:K7:644:ALA:O	1:K7:645:THR:OG1	2.38	0.41
1:K8:160:TYR:HA	1:K8:161:PRO:HA	1.89	0.41
1:K9:352:ALA:O	1:K9:356:MET:HG3	2.20	0.41
1:K9:576:ASN:ND2	1:K9:622:GLU:O	2.53	0.41
1:L0:441:PHE:HD1	1:L0:441:PHE:HA	1.68	0.41
1:L1:205:MET:SD	1:L1:324:PHE:HD2	2.43	0.41
1:L2:480:ARG:C	1:L2:482:ASP:H	2.27	0.41
1:L3:444:SER:HB3	1:L3:543:SER:H	1.84	0.41
1:L3:579:PHE:CE2	2:Om:30:GLN:HB2	2.56	0.41
1:L4:572:LEU:HA	1:L4:572:LEU:HD12	1.69	0.41
1:L5:72:LEU:HD13	1:L5:72:LEU:HA	1.78	0.41
1:L5:561:LYS:HB3	1:MY:10:LEU:HD13	2.02	0.41
1:L5:653:GLU:O	1:L5:654:LEU:HG	2.20	0.41
1:L6:125:ILE:O	1:L6:149:LYS:HD2	2.20	0.41
1:L7:554:ARG:O	1:L7:554:ARG:HD3	2.20	0.41
1:L8:91:ASN:OD1	1:L8:91:ASN:N	2.53	0.41
1:L8:118:VAL:HG22	1:L8:169:ALA:HB2	2.01	0.41
1:L8:278:GLN:HG2	1:L8:296:SER:HB3	2.02	0.41
1:L9:193:ILE:HD12	1:L9:193:ILE:HA	1.87	0.41
1:LQ:133:GLU:OE1	1:LQ:141:LYS:HB2	2.21	0.41
1:LS:109:ASN:OD1	1:LS:109:ASN:N	2.53	0.41
1:LS:236:ILE:HG13	1:LS:283:VAL:HG22	2.01	0.41
1:LS:406:LEU:HD13	1:LS:475:ALA:HB2	2.02	0.41
1:LS:444:SER:OG	1:LS:543:SER:OG	2.26	0.41
1:LU:438:ASP:OD1	1:LU:438:ASP:N	2.53	0.41
1:LU:441:PHE:CE2	1:LU:443:ILE:HD11	2.55	0.41
1:LV:650:ASP:C	1:LV:652:ASP:H	2.29	0.41
1:LW:202:GLU:H	1:LW:202:GLU:HG3	1.60	0.41
1:LW:355:LEU:HD23	1:LW:355:LEU:HA	1.85	0.41
1:LZ:417:ILE:H	1:LZ:417:ILE:HG12	1.52	0.41
1:La:400:ARG:NH1	1:La:402:ASP:OD1	2.52	0.41
1:Ld:79:ARG:HG3	1:Ld:370:VAL:CG1	2.50	0.41
1:Ld:563:ASN:ND2	1:Ld:566:ARG:HH12	2.16	0.41
1:Le:205:MET:O	1:Le:211:GLN:NE2	2.30	0.41
1:Le:554:ARG:O	1:Le:554:ARG:HD3	2.20	0.41
1:Lv:432:ALA:HB2	1:Lv:440:ASN:HD22	1.85	0.41
1:Lw:454:TYR:HB3	1:Lw:467:TRP:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lx:645:THR:OG1	1:Lz:629:ILE:O	2.33	0.41
1:M0:371:GLN:OE1	1:M0:562:THR:OG1	2.25	0.41
1:M2:100:GLU:HG2	1:M2:186:LYS:O	2.20	0.41
1:M4:454:TYR:HB3	1:M4:467:TRP:HD1	1.84	0.41
1:M4:510:ARG:HG2	1:M4:511:GLN:H	1.84	0.41
1:M5:256:PRO:HG2	1:M5:339:THR:H	1.84	0.41
1:M5:401:GLN:O	1:M5:561:LYS:HE3	2.19	0.41
1:M6:536:TYR:HD1	1:M6:536:TYR:HA	1.69	0.41
1:M7:26:THR:HA	1:M7:77:ASP:O	2.20	0.41
1:M7:296:SER:O	1:M7:311:ILE:HG13	2.20	0.41
1:M7:518:TYR:CZ	1:M7:539:LYS:HG3	2.55	0.41
1:M9:429:TRP:CZ2	1:M9:441:PHE:HB2	2.55	0.41
1:M9:456:TYR:CE1	1:M9:465:ASN:HB3	2.55	0.41
1:MS:261:ARG:NH2	1:MS:337:ILE:HD13	2.36	0.41
1:MS:524:PRO:HG2	1:MS:536:TYR:HB3	2.02	0.41
1:MU:650:ASP:C	1:MU:652:ASP:H	2.28	0.41
1:MU:653:GLU:H	1:MU:653:GLU:HG2	1.71	0.41
1:MV:451:ASP:O	1:MV:522:ILE:HG23	2.20	0.41
1:MY:119:LYS:HG2	1:MY:124:ASP:OD1	2.19	0.41
1:MZ:478:CYS:HB3	1:MZ:555:ARG:NE	2.35	0.41
1:Mb:37:PRO:O	1:Mb:82:ARG:HD3	2.20	0.41
1:Mb:91:ASN:O	1:Mb:191:SER:OG	2.35	0.41
1:Mc:550:ARG:HB3	1:Mc:553:VAL:HG12	2.01	0.41
1:Md:210:PHE:O	1:Md:214:LEU:HG	2.20	0.41
1:Me:137:ASP:OD1	1:Me:137:ASP:N	2.40	0.41
1:Me:193:ILE:HD12	1:Me:193:ILE:HA	1.81	0.41
1:Me:517:LEU:HD12	1:Me:517:LEU:HA	1.83	0.41
1:Mv:518:TYR:CE1	1:Mv:539:LYS:HE2	2.54	0.41
1:Mw:116:ILE:HD11	1:Mw:131:ILE:HG13	2.02	0.41
1:Mw:426:LEU:HD23	1:Mw:426:LEU:HA	1.88	0.41
1:Mw:605:ARG:HB3	1:Mw:605:ARG:HH11	1.85	0.41
1:Mx:383:LEU:HD22	1:Mx:439:ASN:HB3	2.01	0.41
1:NV:120:TYR:CE1	1:NV:166:ASN:HB2	2.55	0.41
1:NV:298:LYS:HB2	1:NV:298:LYS:NZ	2.35	0.41
1:NV:411:ARG:NH1	1:NV:415:VAL:HG21	2.35	0.41
1:NZ:108:SER:HG	1:NZ:137:ASP:CG	2.28	0.41
1:Na:41:ILE:HD11	1:Na:361:PHE:HB3	2.02	0.41
1:Nc:614:THR:O	1:Nc:616:SER:N	2.53	0.41
1:Nd:504:LYS:HG2	1:Nd:505:LEU:N	2.35	0.41
1:Ng:569:LYS:HB3	1:Ng:569:LYS:HE2	1.61	0.41
1:Nh:411:ARG:NH1	1:Nh:415:VAL:HG21	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ni:494:TYR:CE1	1:Nj:569:LYS:HG3	2.55	0.41
1:Nj:219:ILE:HD13	1:Nj:219:ILE:H	1.85	0.41
1:Nj:614:THR:O	1:Nj:616:SER:N	2.51	0.41
1:Nv:375:ALA:HB3	1:Nv:407:CYS:HA	2.02	0.41
1:Nv:499:ILE:HB	1:Nv:502:VAL:HG21	2.01	0.41
1:Nv:571:ARG:HA	1:Nv:571:ARG:HD3	1.93	0.41
1:Nw:239:VAL:HG11	1:Nw:265:ALA:HB2	2.02	0.41
1:Nw:429:TRP:CE2	1:Nw:441:PHE:HB2	2.55	0.41
2:OL:120:ALA:HB1	2:Rq:1:MET:HB2	2.02	0.41
2:On:58:ILE:H	2:On:58:ILE:HD13	1.84	0.41
2:Os:124:THR:O	2:Os:125:LYS:HB3	2.21	0.41
2:PC:51:VAL:HG22	2:PC:58:ILE:HD13	2.03	0.41
2:PF:137:VAL:HB	2:PF:155:VAL:HG13	2.02	0.41
2:Pk:120:ALA:HB2	2:RE:99:ILE:O	2.21	0.41
2:Pk:124:THR:O	2:Pk:125:LYS:HB3	2.20	0.41
2:Pn:103:LYS:O	2:Pn:106:GLU:HG2	2.21	0.41
2:Pq:82:ARG:O	2:Pq:86:VAL:HG13	2.20	0.41
2:Pq:129:ILE:CG2	2:Pq:132:LEU:HD13	2.50	0.41
2:Pt:117:ALA:HB2	2:Pt:124:THR:HG23	2.02	0.41
2:RE:56:ARG:HB3	2:RE:56:ARG:NH1	2.35	0.41
2:RF:120:ALA:HB2	2:RT:99:ILE:O	2.20	0.41
2:RM:45:ILE:HD11	2:RM:47:GLU:OE2	2.20	0.41
2:RM:61:ALA:HA	2:Rr:133:TRP:CH2	2.55	0.41
2:RO:25:ILE:C	2:RO:27:TYR:H	2.28	0.41
2:RO:76:ASP:OD1	2:RO:79:HIS:N	2.52	0.41
2:Ro:37:LYS:NZ	2:Ro:152:THR:OG1	2.52	0.41
2:Rq:142:LEU:HD12	2:Rq:142:LEU:HA	1.82	0.41
2:Rt:54:MET:HE2	2:Rt:54:MET:HB3	1.88	0.41
1:K0:16:GLN:HA	1:Nj:653:GLU:HB2	2.03	0.41
1:K0:576:ASN:ND2	1:K0:618:ILE:HG12	2.36	0.41
1:K4:484:VAL:HG13	1:K4:485:SER:H	1.85	0.41
1:K5:571:ARG:NH2	1:K5:587:GLU:OE1	2.45	0.41
1:K6:213:ASN:O	1:K6:217:TYR:HD2	2.03	0.41
1:K6:406:LEU:HD13	1:K6:475:ALA:HB2	2.02	0.41
1:K6:547:PRO:HG3	1:La:305:TYR:CE1	2.55	0.41
1:K7:115:LYS:HD2	1:K7:115:LYS:HA	1.78	0.41
1:K8:32:LYS:HE2	1:K8:350:VAL:HB	2.02	0.41
1:K9:41:ILE:HD11	1:K9:361:PHE:CB	2.45	0.41
1:K9:405:VAL:O	1:K9:448:ALA:HA	2.20	0.41
1:L0:621:ASN:N	1:L0:621:ASN:OD1	2.53	0.41
1:L1:573:PHE:HA	1:Lz:635:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L2:105:THR:HB	1:L2:181:VAL:HG23	2.01	0.41
1:L7:346:SER:O	1:L7:350:VAL:HG23	2.21	0.41
1:L8:517:LEU:HD12	1:L8:517:LEU:HA	1.83	0.41
1:L9:383:LEU:HD22	1:L9:439:ASN:HB3	2.03	0.41
1:LR:29:LEU:HD12	1:LR:30:ALA:H	1.84	0.41
1:LR:470:LEU:HD12	1:LR:470:LEU:HA	1.77	0.41
1:LS:41:ILE:HD11	1:LS:361:PHE:HB3	2.02	0.41
1:LS:246:LYS:HB2	1:LS:250:ALA:HB2	2.02	0.41
1:LV:638:ILE:HG23	1:LW:623:PHE:HD1	1.86	0.41
1:LX:153:LYS:O	1:LX:157:VAL:HG22	2.19	0.41
1:La:621:ASN:OD1	1:La:621:ASN:N	2.52	0.41
1:Lc:355:LEU:HD23	1:Lc:355:LEU:HA	1.88	0.41
1:Ld:505:LEU:HD22	1:Ld:533:TYR:CD2	2.50	0.41
1:Lv:572:LEU:O	1:Lv:573:PHE:C	2.63	0.41
1:Lw:35:TRP:O	1:Lw:54:PHE:HA	2.20	0.41
1:Lw:137:ASP:OD1	1:Lw:138:GLY:N	2.49	0.41
1:Lx:116:ILE:N	1:Lx:129:GLY:O	2.54	0.41
1:Lx:130:LYS:HE2	1:Lx:130:LYS:HB2	1.91	0.41
1:Lx:205:MET:HG3	1:Lx:324:PHE:CE1	2.55	0.41
1:Lx:577:ASN:OD1	1:Lx:577:ASN:N	2.50	0.41
1:Lz:379:ALA:HA	1:Lz:411:ARG:HB2	2.02	0.41
1:Lz:617:VAL:HG23	1:Lz:620:ARG:HH21	1.85	0.41
1:M0:496:ARG:HH11	1:M0:496:ARG:HB2	1.85	0.41
1:M1:653:GLU:H	1:M1:653:GLU:HG2	1.59	0.41
1:M2:557:PHE:CZ	1:M2:629:ILE:HD11	2.55	0.41
1:M3:628:TYR:OH	1:Nb:17:SER:OG	2.08	0.41
1:M5:120:TYR:CE2	1:M5:157:VAL:HG11	2.56	0.41
1:M6:213:ASN:O	1:M6:217:TYR:HD2	2.04	0.41
1:M6:487:THR:O	1:M6:487:THR:OG1	2.38	0.41
1:M9:140:ILE:O	1:M9:141:LYS:NZ	2.53	0.41
1:MQ:143:ILE:HD12	1:MQ:145:ILE:HD11	2.02	0.41
1:MS:654:LEU:HD23	1:MS:654:LEU:HA	1.81	0.41
1:MU:510:ARG:HE	1:MV:363:ALA:HB3	1.85	0.41
1:MW:526:THR:OG1	1:MW:527:GLY:N	2.52	0.41
1:MX:2:THR:OG1	1:MX:3:LEU:N	2.52	0.41
1:MX:598:LEU:HA	1:MX:598:LEU:HD23	1.85	0.41
1:Ma:222:VAL:HG11	1:Ma:236:ILE:HG12	2.02	0.41
1:Mb:221:GLY:O	1:Mb:325:ALA:HA	2.19	0.41
1:Mb:505:LEU:HD12	1:Mb:505:LEU:HA	1.79	0.41
1:Mc:215:LYS:HB2	1:Mc:329:ASN:ND2	2.35	0.41
1:Mc:220:PRO:HD3	1:Mc:334:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Me:33:PHE:HA	1:Me:61:THR:CG2	2.49	0.41
1:Mv:23:SER:O	1:Mv:76:ASN:HB2	2.20	0.41
1:Mv:390:GLN:O	1:Mv:394:VAL:HG23	2.20	0.41
1:Mv:538:ASP:OD1	1:Mv:538:ASP:N	2.53	0.41
1:Mw:568:SER:O	1:Mw:571:ARG:N	2.46	0.41
1:Mz:505:LEU:HD21	1:Mz:525:VAL:HG12	2.03	0.41
1:Mz:539:LYS:HG2	1:Mz:550:ARG:NH2	2.35	0.41
1:NV:90:LYS:HD3	1:NV:90:LYS:HA	1.83	0.41
1:NV:346:SER:O	1:NV:349:GLU:N	2.41	0.41
1:NV:505:LEU:HD12	1:NV:505:LEU:HA	1.76	0.41
1:NW:66:MET:HE3	1:NW:66:MET:HB2	1.79	0.41
1:NW:505:LEU:HD21	1:NW:525:VAL:HG12	2.02	0.41
1:NW:614:THR:O	1:NW:616:SER:N	2.48	0.41
1:Na:612:ASN:HB3	1:Na:624:VAL:HB	2.02	0.41
1:Nb:57:PRO:HG2	1:Nb:459:ASP:OD1	2.20	0.41
1:Nc:118:VAL:HG22	1:Nc:184:LEU:HD11	2.01	0.41
1:Nd:299:ARG:H	1:Nd:299:ARG:HG2	1.50	0.41
1:Nf:44:VAL:HG11	1:Nf:50:LEU:HB2	2.02	0.41
1:Ng:527:GLY:HA2	1:Ng:533:TYR:CD2	2.54	0.41
1:Nh:135:ASP:HB3	1:Nh:139:LYS:HB2	2.01	0.41
1:Nj:450:ILE:HG12	1:Nj:522:ILE:HG23	2.02	0.41
2:OD:41:LEU:HA	2:OD:41:LEU:HD12	1.82	0.41
2:OD:54:MET:HE2	2:OE:1:MET:HE1	2.02	0.41
2:OE:21:PHE:CG	2:Oj:142:LEU:HD23	2.55	0.41
2:OE:140:LEU:CD1	2:OE:153:PHE:HB3	2.50	0.41
2:OF:41:LEU:HD12	2:OF:41:LEU:HA	1.82	0.41
2:OF:120:ALA:HB2	2:Oj:99:ILE:O	2.21	0.41
2:OJ:48:LYS:HD3	2:OJ:59:ASN:OD1	2.20	0.41
2:OK:116:TYR:CE1	2:OK:123:VAL:HG22	2.55	0.41
2:Oi:27:TYR:CE1	2:Oi:109:LYS:HE2	2.55	0.41
2:Ok:97:ASN:O	2:Rl:3:VAL:N	2.51	0.41
2:Om:107:TYR:O	2:Om:133:TRP:HB3	2.21	0.41
2:Os:69:TRP:HB2	2:Os:159:LEU:HD23	2.02	0.41
2:Ot:104:PRO:HA	2:Ot:107:TYR:CE2	2.55	0.41
2:PG:27:TYR:CG	2:PG:109:LYS:HG3	2.54	0.41
2:PH:94:GLY:HA3	2:PH:100:THR:OG1	2.20	0.41
2:PI:3:VAL:HG12	2:RH:97:ASN:HA	2.02	0.41
2:PJ:37:LYS:HA	2:Po:144:TRP:CE3	2.55	0.41
2:Pm:23:VAL:HG13	2:Pm:36:CYS:SG	2.60	0.41
2:RD:45:ILE:HD12	2:RS:135:THR:O	2.19	0.41
2:RD:67:ASP:OD1	2:RD:67:ASP:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RK:25:ILE:O	2:RK:26:SER:OG	2.33	0.41
2:RK:104:PRO:HA	2:RK:107:TYR:CZ	2.56	0.41
2:RL:154:GLU:OE1	2:RL:154:GLU:N	2.52	0.41
2:RM:75:ASN:ND2	2:RM:151:GLN:OE1	2.53	0.41
2:RN:104:PRO:HA	2:RN:107:TYR:CE2	2.55	0.41
2:RT:38:ALA:HB3	2:RT:72:THR:HG23	2.03	0.41
2:RT:40:ALA:O	2:RT:69:TRP:NE1	2.51	0.41
1:K1:4:LEU:HD13	1:Na:519:GLN:OE1	2.21	0.41
1:K2:100:GLU:OE2	1:K2:186:LYS:HG3	2.20	0.41
1:K2:107:GLY:HA3	1:K2:110:TYR:HE2	1.85	0.41
1:K3:92:SER:HB3	1:K3:340:LEU:HB3	2.03	0.41
1:K5:527:GLY:O	1:K5:528:THR:C	2.63	0.41
1:K5:642:PHE:CE1	1:K6:564:ILE:HD11	2.55	0.41
1:K5:655:THR:HB	1:LZ:19:VAL:HG21	2.02	0.41
1:K6:456:TYR:O	1:K6:503:ILE:HG12	2.21	0.41
1:K7:228:GLY:HA2	1:K7:345:SER:HB3	2.02	0.41
1:K7:264:THR:OG1	1:K7:284:ARG:NH2	2.53	0.41
1:K8:116:ILE:N	1:K8:129:GLY:O	2.54	0.41
1:K9:440:ASN:OD1	1:K9:440:ASN:N	2.53	0.41
1:L0:46:ASN:N	1:L0:49:ASP:OD2	2.53	0.41
1:L0:253:PRO:HG2	1:L0:255:TYR:HE1	1.85	0.41
1:L0:451:ASP:OD1	1:L0:474:ILE:HD13	2.19	0.41
1:L1:497:GLY:O	1:L1:534:VAL:HA	2.20	0.41
1:L1:517:LEU:HD12	1:L1:517:LEU:HA	1.80	0.41
1:L1:643:VAL:HG13	1:MV:14:THR:HG22	2.03	0.41
1:L2:413:THR:OG1	1:L2:425:ASN:HB3	2.20	0.41
1:L3:149:LYS:NZ	1:L3:149:LYS:HB3	2.36	0.41
1:L3:495:ASN:OD1	1:L3:495:ASN:N	2.47	0.41
1:L3:500:LEU:HD23	1:L3:500:LEU:HA	1.90	0.41
1:L4:153:LYS:HA	1:L4:153:LYS:HD3	1.77	0.41
1:L5:11:LYS:O	1:LZ:641:ASN:HA	2.19	0.41
1:L6:455:LYS:HE2	1:L6:473:ASP:OD1	2.19	0.41
1:L6:563:ASN:HD22	1:L6:563:ASN:HA	1.72	0.41
1:L7:304:ILE:HD13	1:Lb:545:PRO:HB2	2.02	0.41
1:LR:642:PHE:CZ	1:LS:561:LYS:HG2	2.56	0.41
1:LS:16:GLN:OE1	1:Nx:653:GLU:HA	2.20	0.41
1:LU:365:ARG:HA	1:LU:400:ARG:CZ	2.49	0.41
1:LV:299:ARG:H	1:LV:299:ARG:HG2	1.43	0.41
1:LV:642:PHE:CZ	1:LW:564:ILE:HD11	2.56	0.41
1:LW:278:GLN:HA	1:LW:296:SER:HA	2.02	0.41
1:LW:455:LYS:HZ1	1:LW:473:ASP:CG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LX:310:TYR:O	1:LX:314:PHE:CB	2.69	0.41
1:LX:413:THR:OG1	1:LX:425:ASN:HB3	2.21	0.41
1:LY:400:ARG:NH1	1:LY:403:CYS:SG	2.93	0.41
1:LY:604:TYR:HA	1:LY:628:TYR:O	2.20	0.41
1:LZ:311:ILE:HB	1:LZ:327:ALA:HB2	2.03	0.41
1:Lb:143:ILE:HD12	1:Lb:145:ILE:HD11	2.02	0.41
1:Lc:454:TYR:HB3	1:Lc:467:TRP:HD1	1.86	0.41
1:Ld:456:TYR:CD2	1:Ld:503:ILE:HD11	2.56	0.41
1:Ld:644:ALA:O	1:Ld:645:THR:OG1	2.39	0.41
1:Le:198:ILE:HD12	1:Le:324:PHE:CE2	2.55	0.41
1:Lv:30:ALA:HB3	1:Lv:359:TRP:CE2	2.56	0.41
1:Lv:94:PRO:HD3	1:Lv:222:VAL:O	2.20	0.41
1:Lv:149:LYS:H	1:Lv:149:LYS:HG2	1.57	0.41
1:Lv:193:ILE:HD12	1:Lv:193:ILE:HA	1.93	0.41
1:Lz:41:ILE:HD11	1:Lz:361:PHE:HB3	2.01	0.41
1:Lz:500:LEU:HD23	1:Lz:500:LEU:HA	1.87	0.41
1:M0:456:TYR:HD1	1:M0:456:TYR:HA	1.73	0.41
1:M3:614:THR:C	1:M3:616:SER:H	2.28	0.41
1:M3:653:GLU:H	1:M3:653:GLU:HG2	1.72	0.41
1:M4:451:ASP:OD2	1:M4:470:LEU:HB3	2.20	0.41
1:M5:480:ARG:C	1:M5:482:ASP:H	2.27	0.41
1:M7:42:LYS:HE3	1:M7:42:LYS:HB3	1.84	0.41
1:M8:291:GLN:OE1	1:M8:320:SER:OG	2.16	0.41
1:M9:76:ASN:ND2	1:M9:76:ASN:O	2.54	0.41
1:MS:16:GLN:HE21	1:MS:16:GLN:HB2	1.73	0.41
1:MS:116:ILE:H	1:MS:116:ILE:HG12	1.63	0.41
1:MU:518:TYR:CE2	1:MU:539:LYS:HE3	2.55	0.41
1:MV:149:LYS:NZ	1:MV:149:LYS:HB3	2.36	0.41
1:MW:41:ILE:HD11	1:MW:361:PHE:HB3	2.01	0.41
1:MW:560:LEU:O	1:MW:564:ILE:HG12	2.20	0.41
1:MX:143:ILE:HD12	1:MX:145:ILE:HD11	2.02	0.41
1:MX:604:TYR:HA	1:MX:628:TYR:O	2.20	0.41
1:MY:62:ALA:O	1:MY:66:MET:HB2	2.21	0.41
1:MZ:410:PRO:O	1:MZ:413:THR:HG22	2.21	0.41
1:MZ:455:LYS:HB3	1:MZ:470:LEU:HD13	2.02	0.41
1:MZ:455:LYS:HD3	1:MZ:502:VAL:HG22	2.02	0.41
1:Ma:119:LYS:HE3	1:Ma:122:SER:HA	2.01	0.41
1:Ma:163:LEU:HD22	1:Ma:167:TRP:NE1	2.36	0.41
1:Ma:235:GLU:OE2	1:Ma:261:ARG:NH2	2.26	0.41
1:Mc:159:GLU:OE1	1:Mc:164:GLY:N	2.53	0.41
1:Mx:269:PHE:CE2	1:Mx:280:ALA:HB1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mz:410:PRO:O	1:Mz:413:THR:HG22	2.19	0.41
1:NV:40:GLN:H	1:NV:81:VAL:HG23	1.85	0.41
1:NW:94:PRO:HD3	1:NW:222:VAL:O	2.20	0.41
1:NW:296:SER:O	1:NW:311:ILE:HG13	2.20	0.41
1:NW:423:VAL:O	1:NW:427:VAL:HG23	2.20	0.41
1:NZ:198:ILE:HD11	1:NZ:225:LEU:HD11	2.03	0.41
1:NZ:298:LYS:HB2	1:NZ:298:LYS:NZ	2.35	0.41
1:NZ:412:GLU:HA	1:NZ:415:VAL:HG12	2.02	0.41
1:NZ:561:LYS:HD2	1:Nx:10:LEU:HD13	2.02	0.41
1:NZ:572:LEU:O	1:NZ:573:PHE:C	2.64	0.41
1:NZ:614:THR:C	1:NZ:616:SER:H	2.28	0.41
1:Na:455:LYS:NZ	1:Na:457:GLN:OE1	2.27	0.41
1:Nb:450:ILE:HD13	1:Nb:522:ILE:HG12	2.03	0.41
1:Nc:550:ARG:HB3	1:Nc:553:VAL:HG12	2.01	0.41
1:Nd:368:VAL:HG12	1:Nd:370:VAL:HG22	2.02	0.41
1:Nd:440:ASN:OD1	1:Nd:440:ASN:N	2.53	0.41
1:Ne:108:SER:OG	1:Ne:109:ASN:OD1	2.25	0.41
1:Ne:193:ILE:HG13	1:Ne:195:LEU:HD23	2.02	0.41
1:Ne:571:ARG:HA	1:Ne:571:ARG:HD3	1.97	0.41
1:Nf:355:LEU:HD23	1:Nf:355:LEU:HA	1.90	0.41
1:Nf:417:ILE:H	1:Nf:417:ILE:HG12	1.68	0.41
1:Ng:93:SER:OG	1:Ng:191:SER:HB2	2.20	0.41
1:Ng:400:ARG:HD3	1:Ng:403:CYS:SG	2.59	0.41
1:Ng:457:GLN:HA	1:Ng:503:ILE:HG23	2.01	0.41
1:Ni:97:GLY:N	1:Ni:188:ILE:O	2.53	0.41
1:Ni:614:THR:C	1:Ni:616:SER:H	2.28	0.41
1:Ni:637:TYR:O	1:Nj:622:GLU:HA	2.21	0.41
1:Nj:426:LEU:HA	1:Nj:426:LEU:HD23	1.87	0.41
1:Nv:368:VAL:O	1:Nv:400:ARG:NH2	2.53	0.41
1:Nw:480:ARG:O	1:Nw:484:VAL:HG12	2.20	0.41
1:Nx:100:GLU:HB3	1:Nx:188:ILE:HD11	2.02	0.41
1:Nz:239:VAL:HG22	1:Nz:280:ALA:HB3	2.03	0.41
1:Nz:304:ILE:HG13	1:Nz:305:TYR:CD2	2.55	0.41
1:Nz:510:ARG:H	1:Nz:513:GLN:HG3	1.86	0.41
2:OC:99:ILE:HD12	2:RD:1:MET:HE3	2.02	0.41
2:OD:14:ASP:OD1	2:Oh:104:PRO:HD3	2.20	0.41
2:OF:143:ASP:OD1	2:OF:144:TRP:N	2.53	0.41
2:OI:98:GLU:H	2:OI:98:GLU:CD	2.28	0.41
2:OJ:143:ASP:OD1	2:Ro:38:ALA:HB2	2.21	0.41
2:ON:107:TYR:O	2:ON:133:TRP:HB3	2.20	0.41
2:Oi:115:GLN:NE2	2:PD:151:GLN:HE22	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Op:28:LEU:HB3	2:Op:84:LYS:HE3	2.02	0.41
2:Or:140:LEU:HD12	2:Or:140:LEU:HA	1.79	0.41
2:PG:38:ALA:HB3	2:PG:72:THR:HG23	2.02	0.41
2:PK:75:ASN:HB3	2:PK:151:GLN:HB3	2.02	0.41
2:PK:140:LEU:HD12	2:PK:140:LEU:HA	1.89	0.41
2:PM:61:ALA:HA	2:Pr:133:TRP:CH2	2.56	0.41
2:Pl:38:ALA:HB2	2:RG:143:ASP:OD1	2.20	0.41
2:Pl:103:LYS:O	2:Pl:106:GLU:HG2	2.20	0.41
2:Pn:48:LYS:HB2	2:RI:133:TRP:CZ2	2.56	0.41
2:RF:140:LEU:HD12	2:RF:140:LEU:HA	1.84	0.41
2:RG:67:ASP:N	2:RG:67:ASP:OD1	2.40	0.41
2:RH:69:TRP:O	2:RH:156:THR:HA	2.20	0.41
2:RT:104:PRO:HA	2:RT:107:TYR:CE2	2.55	0.41
2:Rt:82:ARG:NH1	2:Rt:138:GLY:HA2	2.35	0.41
2:Rt:128:GLU:OE1	2:Rt:130:LYS:NZ	2.47	0.41
1:K0:117:THR:HG23	1:K0:126:GLU:O	2.21	0.41
1:K0:550:ARG:HB3	1:K0:553:VAL:HG12	2.02	0.41
1:K1:160:TYR:HA	1:K1:161:PRO:HA	1.90	0.41
1:K2:238:ILE:HG12	1:K2:281:ILE:HD13	2.00	0.41
1:K6:302:LYS:HA	1:K6:302:LYS:HD3	1.93	0.41
1:K6:494:TYR:HE2	1:K6:528:THR:HG21	1.86	0.41
1:K7:44:VAL:HG11	1:K7:50:LEU:HB2	2.03	0.41
1:K8:100:GLU:HG2	1:K8:186:LYS:O	2.20	0.41
1:K8:515:ASP:CG	1:Lc:4:LEU:HB2	2.45	0.41
1:L2:16:GLN:OE1	1:L2:460:LYS:HD3	2.21	0.41
1:L2:198:ILE:HD11	1:L2:225:LEU:HD11	2.02	0.41
1:L2:410:PRO:O	1:L2:413:THR:HG22	2.21	0.41
1:L2:428:ASN:HA	1:L2:433:ALA:HB3	2.01	0.41
1:L2:650:ASP:C	1:L2:652:ASP:H	2.29	0.41
1:L3:115:LYS:HA	1:L3:115:LYS:HD2	1.81	0.41
1:L3:269:PHE:CE2	1:L3:280:ALA:HB1	2.55	0.41
1:L3:480:ARG:C	1:L3:482:ASP:H	2.29	0.41
1:L4:311:ILE:HB	1:L4:327:ALA:HB2	2.01	0.41
1:L4:417:ILE:H	1:L4:417:ILE:HG12	1.41	0.41
1:L4:654:LEU:HA	1:L4:654:LEU:HD23	1.74	0.41
1:L5:379:ALA:HB2	1:L5:454:TYR:HE2	1.86	0.41
1:L6:215:LYS:HB2	1:L6:329:ASN:ND2	2.35	0.41
1:L8:72:LEU:HD13	1:L8:72:LEU:HA	1.69	0.41
1:L8:612:ASN:HB3	1:L8:624:VAL:HG23	2.03	0.41
1:LR:26:THR:HB	1:LR:77:ASP:HB3	2.01	0.41
1:LU:240:SER:OG	1:LU:335:SER:OG	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LU:345:SER:O	1:LU:346:SER:OG	2.37	0.41
1:LU:538:ASP:O	1:LU:550:ARG:HA	2.20	0.41
1:LV:133:GLU:OE1	1:LV:142:LYS:HD3	2.20	0.41
1:LW:116:ILE:HD11	1:LW:131:ILE:HG13	2.03	0.41
1:LX:109:ASN:N	1:LX:138:GLY:HA3	2.35	0.41
1:LY:66:MET:HG2	1:LY:468:VAL:HG21	2.03	0.41
1:LZ:104:SER:OG	1:LZ:183:THR:OG1	2.20	0.41
1:LZ:485:SER:OG	1:LZ:486:GLN:N	2.54	0.41
1:La:37:PRO:HG2	1:La:42:LYS:HD2	2.03	0.41
1:La:119:LYS:HE3	1:La:122:SER:HA	2.02	0.41
1:La:556:LEU:O	1:La:559:MET:HG3	2.20	0.41
1:Lc:480:ARG:O	1:Lc:484:VAL:HG12	2.20	0.41
1:Ld:295:LEU:HD13	1:Ld:315:PHE:HE2	1.85	0.41
1:Le:228:GLY:HA2	1:Le:345:SER:HB3	2.01	0.41
1:Lv:18:THR:HG22	1:Lv:460:LYS:NZ	2.35	0.41
1:Lv:479:ALA:O	1:Lv:482:ASP:HB3	2.20	0.41
1:Lw:159:GLU:O	1:Lw:162:THR:N	2.52	0.41
1:Lw:331:PRO:HG2	1:Lw:334:PHE:CD2	2.55	0.41
1:Lw:538:ASP:O	1:Lw:551:ILE:HG13	2.20	0.41
1:Lw:572:LEU:HD12	1:Lw:572:LEU:HA	1.66	0.41
1:Lw:614:THR:O	1:Lw:617:VAL:HG12	2.20	0.41
1:M0:70:ASN:O	1:M0:73:GLN:HB2	2.21	0.41
1:M0:518:TYR:CD2	1:Nj:6:PRO:HD3	2.56	0.41
1:M1:18:THR:HG22	1:M1:460:LYS:NZ	2.35	0.41
1:M1:70:ASN:OD1	1:M1:457:GLN:NE2	2.47	0.41
1:M1:485:SER:OG	1:M1:486:GLN:N	2.52	0.41
1:M2:37:PRO:O	1:M2:82:ARG:HB3	2.20	0.41
1:M2:383:LEU:HD11	1:M2:436:TYR:CD2	2.56	0.41
1:M3:236:ILE:HD11	1:M3:340:LEU:HD11	2.03	0.41
1:M4:484:VAL:HG13	1:M4:485:SER:H	1.85	0.41
1:M5:642:PHE:HE1	1:M6:564:ILE:HD11	1.86	0.41
1:M6:480:ARG:O	1:M6:484:VAL:HG12	2.20	0.41
1:M7:451:ASP:CG	1:M7:474:ILE:HD13	2.46	0.41
1:M8:234:ILE:HG12	1:M8:285:ARG:HB2	2.02	0.41
1:M9:536:TYR:HD1	1:M9:536:TYR:HA	1.78	0.41
1:MQ:252:LEU:HG	1:MQ:263:SER:HB3	2.02	0.41
1:MS:252:LEU:HD22	1:MS:335:SER:O	2.20	0.41
1:MS:614:THR:C	1:MS:616:SER:H	2.29	0.41
1:MU:63:ASP:CG	1:MU:379:ALA:HB3	2.45	0.41
1:MU:463:ASP:OD1	1:MV:317:LYS:NZ	2.48	0.41
1:MU:644:ALA:O	1:MU:645:THR:OG1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MV:16:GLN:OE1	1:MV:460:LYS:HB2	2.20	0.41
1:MV:64:TYR:OH	1:MV:381:GLU:OE2	2.37	0.41
1:MY:535:LEU:HD22	1:MY:537:GLY:H	1.86	0.41
1:MZ:34:GLN:NE2	1:MZ:56:GLN:H	2.18	0.41
1:MZ:160:TYR:HA	1:MZ:161:PRO:HA	1.87	0.41
1:MZ:215:LYS:HB2	1:MZ:329:ASN:ND2	2.35	0.41
1:Mb:93:SER:OG	1:Mb:191:SER:HB2	2.19	0.41
1:Mb:480:ARG:O	1:Mb:482:ASP:N	2.54	0.41
1:Mc:499:ILE:H	1:Mc:499:ILE:HG12	1.70	0.41
1:Me:121:VAL:HG13	1:Me:166:ASN:HA	2.03	0.41
1:Mv:22:ASN:HD22	1:Mv:22:ASN:H	1.68	0.41
1:Mv:220:PRO:HD3	1:Mv:334:PHE:CE2	2.55	0.41
1:Mv:266:LYS:HE3	1:Mv:266:LYS:HB3	1.92	0.41
1:Mv:389:VAL:O	1:Mv:393:VAL:HG23	2.21	0.41
1:Mv:572:LEU:HD12	1:Mv:572:LEU:HA	1.84	0.41
1:Mw:304:ILE:H	1:Mw:304:ILE:HG12	1.73	0.41
1:Mw:654:LEU:HD23	1:Mw:654:LEU:HA	1.80	0.41
1:Mx:617:VAL:O	1:Mx:622:GLU:HB2	2.20	0.41
1:NV:222:VAL:HG22	1:NV:325:ALA:HB2	2.02	0.41
1:NW:451:ASP:CG	1:NW:452:GLY:H	2.28	0.41
1:Nb:620:ARG:HB2	1:Nb:622:GLU:HG3	2.01	0.41
1:Ne:494:TYR:CE1	1:Nf:569:LYS:HG2	2.55	0.41
1:Nf:103:ILE:HD13	1:Nf:182:ILE:HG22	2.01	0.41
1:Nf:382:SER:OG	1:Nf:385:THR:HG22	2.21	0.41
1:Ng:153:LYS:HA	1:Ng:153:LYS:HD3	1.89	0.41
1:Ng:398:ASP:O	1:Ng:401:GLN:HG3	2.20	0.41
1:Nh:635:ILE:HD11	1:Ni:576:ASN:HA	2.02	0.41
1:Nj:202:GLU:H	1:Nj:202:GLU:HG3	1.63	0.41
1:Nj:253:PRO:HA	1:Nj:260:THR:HG22	2.03	0.41
1:Nj:497:GLY:O	1:Nj:534:VAL:HA	2.20	0.41
1:Nv:193:ILE:HD12	1:Nv:193:ILE:HA	1.86	0.41
1:Nw:33:PHE:HA	1:Nw:61:THR:CG2	2.50	0.41
1:Nw:197:GLU:HB3	1:Nw:199:GLU:HG3	2.03	0.41
1:Nz:302:LYS:HA	1:Nz:302:LYS:HD3	1.85	0.41
2:OC:112:ILE:HD11	2:OC:126:GLU:OE2	2.21	0.41
2:OI:31:ASN:OD1	2:Rn:8:ARG:HG2	2.20	0.41
2:OJ:21:PHE:HZ	2:OJ:37:LYS:O	2.03	0.41
2:OO:21:PHE:CG	2:Ot:142:LEU:HD23	2.56	0.41
2:OO:61:ALA:HA	2:Ot:133:TRP:CH2	2.55	0.41
2:Oi:22:GLN:HB2	2:Oi:116:TYR:HE2	1.86	0.41
2:Oi:67:ASP:OD1	2:Oi:67:ASP:N	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ol:54:MET:HE3	2:Ol:54:MET:HB3	1.79	0.41
2:Om:55:ASN:OD1	2:PI:19:ASN:ND2	2.54	0.41
2:On:161:TYR:CD2	2:PI:96:GLY:HA2	2.55	0.41
2:Oo:1:MET:HB2	2:Oo:1:MET:HE3	1.61	0.41
2:PJ:54:MET:SD	2:PK:1:MET:HE1	2.60	0.41
2:PK:104:PRO:O	2:PK:108:LYS:HB2	2.21	0.41
2:Pi:61:ALA:HA	2:RD:133:TRP:CH2	2.56	0.41
2:Pq:121:LYS:HE2	2:Pq:121:LYS:HB3	1.90	0.41
2:Ps:112:ILE:HD11	2:Ps:126:GLU:CD	2.45	0.41
2:Pt:61:ALA:HA	2:RO:133:TRP:CH2	2.54	0.41
2:RH:82:ARG:NH1	2:RH:138:GLY:HA2	2.36	0.41
2:RI:22:GLN:HB2	2:RI:116:TYR:HE1	1.86	0.41
2:RI:161:TYR:CD1	2:Rn:96:GLY:HA2	2.56	0.41
2:RN:27:TYR:CD1	2:RN:109:LYS:HE2	2.55	0.41
2:Rr:56:ARG:HB3	2:Rr:56:ARG:HH11	1.86	0.41
1:K0:269:PHE:CZ	1:K0:292:SER:HB2	2.55	0.41
1:K1:105:THR:HB	1:K1:181:VAL:N	2.35	0.41
1:K1:526:THR:OG1	1:K1:527:GLY:N	2.53	0.41
1:K1:639:THR:O	1:K1:640:LEU:HD23	2.21	0.41
1:K3:571:ARG:NH1	1:K3:583:SER:OG	2.54	0.41
1:K7:389:VAL:O	1:K7:393:VAL:HG23	2.21	0.41
1:K8:595:ILE:HD13	1:K8:595:ILE:HA	1.89	0.41
1:K9:228:GLY:HA2	1:K9:345:SER:HB3	2.02	0.41
1:K9:235:GLU:OE2	1:K9:261:ARG:NH1	2.51	0.41
1:K9:355:LEU:HD23	1:K9:355:LEU:HA	1.89	0.41
1:L0:101:TYR:OH	1:L0:216:LYS:O	2.38	0.41
1:L1:8:ILE:HD11	1:LW:569:LYS:HA	2.03	0.41
1:L1:412:GLU:H	1:L1:412:GLU:CD	2.28	0.41
1:L1:536:TYR:HD1	1:L1:536:TYR:HA	1.70	0.41
1:L2:100:GLU:HG2	1:L2:186:LYS:O	2.21	0.41
1:L2:614:THR:C	1:L2:616:SER:H	2.29	0.41
1:L5:332:GLU:OE1	1:L5:332:GLU:N	2.41	0.41
1:L7:312:ASP:OD1	1:L7:327:ALA:N	2.44	0.41
1:LQ:518:TYR:CE2	1:LQ:539:LYS:HD2	2.55	0.41
1:LS:563:ASN:OD1	1:LS:591:TYR:OH	2.36	0.41
1:LU:94:PRO:HD3	1:LU:222:VAL:O	2.20	0.41
1:LU:100:GLU:HG2	1:LU:186:LYS:O	2.19	0.41
1:LU:299:ARG:HD3	1:LU:310:TYR:CZ	2.56	0.41
1:LW:523:ASN:ND2	1:LW:523:ASN:O	2.54	0.41
1:LY:28:ALA:HB2	1:LY:370:VAL:HG21	2.01	0.41
1:LZ:100:GLU:HG3	1:LZ:185:GLY:HA3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LZ:278:GLN:HG2	1:LZ:296:SER:HB2	2.01	0.41
1:LZ:451:ASP:O	1:LZ:522:ILE:HG23	2.21	0.41
1:Lb:642:PHE:CZ	1:Lc:564:ILE:HD11	2.56	0.41
1:Lc:37:PRO:HG2	1:Lc:42:LYS:HD2	2.01	0.41
1:Lc:105:THR:HB	1:Lc:181:VAL:H	1.85	0.41
1:Lc:638:ILE:HG12	1:Ld:623:PHE:HB3	2.03	0.41
1:Lw:18:THR:HG22	1:Lw:460:LYS:NZ	2.36	0.41
1:Lx:72:LEU:HD12	1:Lx:72:LEU:HA	1.85	0.41
1:Lx:470:LEU:HD12	1:Lx:470:LEU:HA	1.86	0.41
1:Lx:560:LEU:HD22	1:Lx:629:ILE:HD13	2.03	0.41
1:M0:381:GLU:HB3	1:M0:385:THR:HG23	2.02	0.41
1:M1:225:LEU:HD13	1:M1:324:PHE:HB2	2.02	0.41
1:M1:489:MET:HE1	1:M2:575:LEU:HD13	2.03	0.41
1:M4:251:LEU:HB3	1:M4:260:THR:CG2	2.51	0.41
1:M4:352:ALA:O	1:M4:356:MET:HG3	2.21	0.41
1:M4:527:GLY:HA2	1:M4:533:TYR:CD2	2.55	0.41
1:M6:32:LYS:HE2	1:M6:350:VAL:HB	2.01	0.41
1:M8:392:HIS:O	1:M8:395:SER:OG	2.25	0.41
1:M8:643:VAL:HG22	1:Nh:14:THR:HA	2.03	0.41
1:MR:40:GLN:H	1:MR:81:VAL:HG23	1.85	0.41
1:MR:126:GLU:HA	1:MR:149:LYS:HD2	2.01	0.41
1:MS:576:ASN:ND2	1:MS:618:ILE:HG12	2.35	0.41
1:MU:383:LEU:HD23	1:MU:410:PRO:HG2	2.03	0.41
1:MW:390:GLN:OE1	1:MW:407:CYS:HB3	2.20	0.41
1:Mb:57:PRO:HA	1:Mb:61:THR:HB	2.02	0.41
1:Mc:60:GLU:OE2	1:Mc:348:ALA:HA	2.20	0.41
1:Md:163:LEU:HD22	1:Md:167:TRP:CE2	2.55	0.41
1:Md:296:SER:O	1:Md:311:ILE:HG13	2.20	0.41
1:Me:441:PHE:CE2	1:Me:443:ILE:HD11	2.56	0.41
1:Me:619:ASP:OD1	1:Me:619:ASP:N	2.52	0.41
1:Mv:57:PRO:HG3	1:Mv:65:PHE:CD1	2.55	0.41
1:Mw:467:TRP:CZ3	1:Mx:199:GLU:HB2	2.55	0.41
1:Mz:39:PHE:HE1	1:Mz:86:ARG:HD2	1.86	0.41
1:Mz:451:ASP:CG	1:Mz:452:GLY:H	2.29	0.41
1:NV:505:LEU:HD22	1:NV:533:TYR:CD2	2.55	0.41
1:NW:100:GLU:OE1	1:NW:186:LYS:NZ	2.43	0.41
1:NW:125:ILE:HG22	1:NW:149:LYS:HB2	2.02	0.41
1:NW:221:GLY:O	1:NW:325:ALA:HA	2.20	0.41
1:NX:44:VAL:HG13	1:NX:49:ASP:HB3	2.02	0.41
1:NX:440:ASN:OD1	1:NX:440:ASN:N	2.54	0.41
1:NZ:480:ARG:O	1:NZ:482:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Na:90:LYS:HB3	1:Na:191:SER:OG	2.20	0.41
1:Nb:303:ASP:CG	1:Nb:304:ILE:N	2.78	0.41
1:Nb:481:THR:HG23	1:Nb:485:SER:HB3	2.03	0.41
1:Nb:654:LEU:HD23	1:Nb:654:LEU:HA	1.89	0.41
1:Nb:654:LEU:HD22	1:Nc:605:ARG:HD3	2.01	0.41
1:Nc:66:MET:HA	1:Nc:66:MET:HE3	2.03	0.41
1:Nc:480:ARG:C	1:Nc:482:ASP:H	2.29	0.41
1:Nc:576:ASN:ND2	1:Nc:618:ILE:HG12	2.36	0.41
1:Nd:505:LEU:HD22	1:Nd:533:TYR:HD2	1.85	0.41
1:Ne:485:SER:OG	1:Ne:486:GLN:N	2.53	0.41
1:Ni:115:LYS:HD2	1:Ni:115:LYS:HA	1.84	0.41
1:Ni:413:THR:OG1	1:Ni:425:ASN:HB3	2.20	0.41
1:Ni:480:ARG:C	1:Ni:482:ASP:H	2.29	0.41
1:Nj:148:ALA:HB2	1:Nj:258:GLY:H	1.84	0.41
1:Nj:451:ASP:OD2	1:Nj:470:LEU:HB3	2.20	0.41
1:Nv:451:ASP:OD1	1:Nv:474:ILE:HG21	2.20	0.41
1:Nw:279:TYR:HE2	1:Nw:297:THR:HG21	1.86	0.41
1:Nz:355:LEU:HD23	1:Nz:355:LEU:HA	1.89	0.41
2:OD:14:ASP:OD2	2:OD:17:ARG:NH2	2.53	0.41
2:OF:88:TRP:CE2	2:OF:134:PRO:HD3	2.55	0.41
2:OG:142:LEU:HD22	2:Rl:41:LEU:HD13	2.01	0.41
2:OH:147:ASN:OD1	2:OH:147:ASN:N	2.53	0.41
2:OO:136:ASN:O	2:OO:136:ASN:ND2	2.52	0.41
2:Oi:125:LYS:HD3	2:Oi:126:GLU:H	1.84	0.41
2:Oj:55:ASN:OD1	2:PF:19:ASN:ND2	2.54	0.41
2:Ol:48:LYS:HB2	2:PG:133:TRP:HZ2	1.85	0.41
2:Oo:43:ALA:O	2:Oo:162:TRP:NE1	2.46	0.41
2:PD:118:ARG:HA	2:PD:118:ARG:HD2	1.70	0.41
2:PD:140:LEU:HA	2:PD:140:LEU:HD12	1.60	0.41
2:PL:73:VAL:HG12	2:PL:74:MET:O	2.21	0.41
2:PM:25:ILE:C	2:PM:27:TYR:H	2.27	0.41
2:PN:118:ARG:HA	2:PN:118:ARG:HD2	1.84	0.41
2:Pi:25:ILE:C	2:Pi:27:TYR:H	2.29	0.41
2:Pl:54:MET:HE3	2:Pl:54:MET:HB3	1.83	0.41
2:Pr:47:GLU:HB2	2:RN:148:ASN:OD1	2.20	0.41
2:RD:61:ALA:HA	2:RS:133:TRP:CH2	2.54	0.41
2:RE:69:TRP:HE3	2:RE:157:LEU:HD13	1.84	0.41
2:RE:108:LYS:HG2	2:RE:131:GLY:HA2	2.01	0.41
2:RH:43:ALA:O	2:RH:162:TRP:NE1	2.51	0.41
2:RO:27:TYR:CD1	2:RO:109:LYS:HE2	2.56	0.41
2:RR:53:PHE:CD1	2:RS:6:VAL:HG13	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RT:24:GLU:OE1	2:RT:114:ARG:NH1	2.35	0.41
2:Rm:22:GLN:HB2	2:Rm:116:TYR:HE2	1.86	0.41
2:Ro:7:THR:HA	2:Ro:10:PHE:CE1	2.55	0.41
2:Rp:41:LEU:O	2:Rp:42:PRO:C	2.64	0.41
1:K0:46:ASN:N	1:K0:49:ASP:OD2	2.54	0.41
1:K0:89:ALA:HA	1:K0:345:SER:O	2.20	0.41
1:K0:651:PHE:CD2	1:K0:654:LEU:HD12	2.55	0.41
1:K1:368:VAL:HG12	1:K1:370:VAL:HG22	2.02	0.41
1:K3:266:LYS:HE3	1:K3:266:LYS:HB3	1.85	0.41
1:K5:254:ILE:HG13	1:K5:337:ILE:HB	2.02	0.41
1:K5:517:LEU:HD12	1:K5:517:LEU:HA	1.92	0.41
1:K6:441:PHE:CZ	1:K6:443:ILE:HD11	2.56	0.41
1:K6:470:LEU:HD12	1:K6:470:LEU:HA	1.76	0.41
1:K7:37:PRO:O	1:K7:82:ARG:HD3	2.20	0.41
1:K9:72:LEU:HD12	1:K9:72:LEU:HA	1.95	0.41
1:L0:215:LYS:HB2	1:L0:329:ASN:HD22	1.86	0.41
1:L1:31:GLY:HA3	1:L1:64:TYR:CD1	2.55	0.41
1:L1:505:LEU:HD12	1:L1:505:LEU:HA	1.82	0.41
1:L2:229:GLU:H	1:L2:229:GLU:HG2	1.68	0.41
1:L4:612:ASN:HB3	1:L4:624:VAL:HG22	2.03	0.41
1:L5:582:SER:HA	1:L5:585:ARG:NH1	2.36	0.41
1:L6:153:LYS:HB3	1:L6:167:TRP:HH2	1.86	0.41
1:L6:467:TRP:HH2	1:L7:199:GLU:CD	2.29	0.41
1:L6:497:GLY:O	1:L6:534:VAL:HA	2.20	0.41
1:L8:149:LYS:NZ	1:L8:149:LYS:HB3	2.35	0.41
1:L8:198:ILE:HG13	1:L8:225:LEU:HD11	2.02	0.41
1:LQ:164:GLY:H	1:LQ:167:TRP:HD1	1.64	0.41
1:LR:400:ARG:HD3	1:LR:403:CYS:SG	2.61	0.41
1:LS:11:LYS:HE3	1:LS:13:THR:HG21	2.03	0.41
1:LS:312:ASP:N	1:LS:312:ASP:OD1	2.52	0.41
1:LU:109:ASN:OD1	1:LU:109:ASN:N	2.53	0.41
1:LU:251:LEU:HA	1:LU:262:ALA:HA	2.02	0.41
1:LY:119:LYS:HE3	1:LY:122:SER:HA	2.03	0.41
1:LY:467:TRP:CZ3	1:LZ:199:GLU:HB2	2.55	0.41
1:LZ:138:GLY:O	1:LZ:140:ILE:N	2.53	0.41
1:LZ:410:PRO:O	1:LZ:413:THR:HG22	2.21	0.41
1:La:26:THR:HB	1:La:77:ASP:HB3	2.03	0.41
1:La:44:VAL:HG11	1:La:50:LEU:HB2	2.02	0.41
1:La:504:LYS:HB2	1:La:504:LYS:HE3	1.83	0.41
1:La:598:LEU:HD23	1:La:598:LEU:HA	1.73	0.41
1:Lb:33:PHE:HA	1:Lb:61:THR:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Lb:109:ASN:N	1:Lb:138:GLY:HA3	2.36	0.41
1:Ld:41:ILE:HD11	1:Ld:361:PHE:HB3	2.03	0.41
1:Ld:355:LEU:HD23	1:Ld:355:LEU:HA	1.87	0.41
1:Ld:379:ALA:C	1:Ld:381:GLU:H	2.29	0.41
1:Lv:438:ASP:OD1	1:Lv:438:ASP:N	2.46	0.41
1:Lx:157:VAL:HG23	1:Lx:159:GLU:H	1.85	0.41
1:Lx:269:PHE:CE1	1:Lx:280:ALA:HB1	2.56	0.41
1:Lz:536:TYR:HD1	1:Lz:536:TYR:HA	1.73	0.41
1:M0:39:PHE:CE1	1:M0:83:ALA:HA	2.55	0.41
1:M1:132:THR:OG1	1:M1:142:LYS:HG2	2.21	0.41
1:M2:225:LEU:HD13	1:M2:324:PHE:HB2	2.03	0.41
1:M2:617:VAL:HG22	1:M2:622:GLU:HB2	2.03	0.41
1:M3:389:VAL:O	1:M3:393:VAL:HG23	2.21	0.41
1:M4:266:LYS:HE3	1:M4:266:LYS:HB3	1.90	0.41
1:M4:638:ILE:HG12	1:M5:623:PHE:HB3	2.03	0.41
1:M5:46:ASN:OD1	1:M5:47:GLU:N	2.54	0.41
1:M5:487:THR:HG21	1:M5:559:MET:HE3	2.01	0.41
1:M6:118:VAL:HG22	1:M6:169:ALA:HB2	2.03	0.41
1:M6:456:TYR:O	1:M6:503:ILE:HG12	2.21	0.41
1:M7:383:LEU:HD11	1:M7:436:TYR:CE2	2.55	0.41
1:M7:561:LYS:HD2	1:Nf:10:LEU:HB3	2.03	0.41
1:MQ:116:ILE:HD12	1:MQ:171:ILE:HG12	2.02	0.41
1:MQ:153:LYS:O	1:MQ:157:VAL:HG22	2.21	0.41
1:MQ:430:ARG:HB2	1:MQ:522:ILE:HD11	2.03	0.41
1:MR:480:ARG:O	1:MR:484:VAL:HG12	2.20	0.41
1:MS:536:TYR:HD1	1:MS:536:TYR:HA	1.65	0.41
1:MW:298:LYS:NZ	1:MW:298:LYS:HB2	2.36	0.41
1:MX:256:PRO:HG2	1:MX:339:THR:H	1.85	0.41
1:MX:403:CYS:O	1:MX:558:ASN:ND2	2.45	0.41
1:MY:517:LEU:HD12	1:MY:517:LEU:HA	1.74	0.41
1:Ma:23:SER:OG	1:Ma:74:TYR:O	2.27	0.41
1:Ma:63:ASP:CG	1:Ma:379:ALA:HB3	2.45	0.41
1:Ma:91:ASN:N	1:Ma:91:ASN:OD1	2.51	0.41
1:Ma:120:TYR:HB2	1:Ma:167:TRP:CZ3	2.56	0.41
1:Ma:455:LYS:HG3	1:Ma:502:VAL:HG13	2.02	0.41
1:Md:291:GLN:HG2	1:Md:292:SER:N	2.36	0.41
1:Me:3:LEU:HD11	1:Me:9:GLU:HB2	2.03	0.41
1:Me:379:ALA:HA	1:Me:411:ARG:HB2	2.02	0.41
1:Mv:94:PRO:HD3	1:Mv:222:VAL:O	2.21	0.41
1:Mv:157:VAL:HG23	1:Mv:159:GLU:H	1.85	0.41
1:Mv:281:ILE:HG13	1:Mv:295:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mx:238:ILE:HG21	1:Mx:330:TRP:HZ2	1.86	0.41
1:Mz:613:ASN:HA	1:Mz:617:VAL:CG1	2.51	0.41
1:NW:355:LEU:HD23	1:NW:355:LEU:HA	1.84	0.41
1:NW:379:ALA:O	1:NW:381:GLU:N	2.44	0.41
1:NX:205:MET:HG3	1:NX:324:PHE:CE2	2.56	0.41
1:NX:441:PHE:CE2	1:NX:443:ILE:HD11	2.55	0.41
1:NZ:317:LYS:O	1:NZ:317:LYS:HG2	2.21	0.41
1:NZ:494:TYR:HE2	1:NZ:528:THR:HG21	1.86	0.41
1:NZ:536:TYR:HD1	1:NZ:536:TYR:HA	1.63	0.41
1:NZ:653:GLU:H	1:NZ:653:GLU:HG2	1.59	0.41
1:Na:298:LYS:HE2	1:Na:298:LYS:HB2	1.77	0.41
1:Na:484:VAL:HG13	1:Na:485:SER:H	1.86	0.41
1:Ni:137:ASP:OD1	1:Ni:137:ASP:N	2.53	0.41
1:Ni:213:ASN:O	1:Ni:217:TYR:HD2	2.04	0.41
1:Ni:216:LYS:HD3	1:Ni:217:TYR:CE2	2.55	0.41
1:Nj:119:LYS:O	1:Nj:167:TRP:HA	2.21	0.41
1:Nj:379:ALA:HB2	1:Nj:454:TYR:CE2	2.56	0.41
1:Nj:450:ILE:HD13	1:Nj:522:ILE:HG12	2.02	0.41
1:Nv:239:VAL:HG23	1:Nv:280:ALA:HB3	2.02	0.41
1:Nx:560:LEU:HD21	1:Nx:601:ILE:HD11	2.03	0.41
2:Om:75:ASN:OD1	2:Om:79:HIS:HA	2.21	0.41
2:Op:97:ASN:HB3	2:Rq:2:PHE:HD2	1.85	0.41
2:Oq:23:VAL:HG11	2:Oq:39:THR:HG21	2.03	0.41
2:Ot:124:THR:O	2:Ot:125:LYS:HB3	2.20	0.41
2:PC:48:LYS:HE3	2:PC:48:LYS:HB3	1.75	0.41
2:PE:58:ILE:HD12	2:PF:6:VAL:HG21	2.03	0.41
2:PF:60:VAL:HG22	2:PF:61:ALA:H	1.86	0.41
2:PI:25:ILE:HG13	2:PI:32:PHE:HE2	1.84	0.41
2:PK:54:MET:H	2:PK:54:MET:HG2	1.74	0.41
2:Pl:115:GLN:OE1	2:RG:151:GLN:NE2	2.43	0.41
2:Pn:118:ARG:O	2:Pn:118:ARG:HG3	2.21	0.41
2:RD:41:LEU:HD12	2:RD:41:LEU:HA	1.78	0.41
2:RD:54:MET:HE3	2:RT:20:LEU:HA	2.02	0.41
2:RE:63:ASP:HB3	2:Rk:147:ASN:HB3	2.02	0.41
2:RF:118:ARG:HD2	2:RF:118:ARG:HA	1.87	0.41
2:RS:14:ASP:OD1	2:RS:17:ARG:NH2	2.33	0.41
2:Rk:112:ILE:HD11	2:Rk:126:GLU:OE2	2.21	0.41
2:Rl:41:LEU:HA	2:Rl:42:PRO:HD3	1.93	0.41
2:Rs:56:ARG:H	2:Rs:56:ARG:HG2	1.45	0.41
1:K0:428:ASN:HB3	1:K0:433:ALA:O	2.20	0.41
1:K0:560:LEU:O	1:K0:564:ILE:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K2:571:ARG:NH2	1:K2:587:GLU:OE1	2.38	0.41
1:K4:389:VAL:O	1:K4:393:VAL:HG23	2.21	0.41
1:K5:46:ASN:OD1	1:K5:47:GLU:N	2.54	0.41
1:K5:454:TYR:HB2	1:K5:506:ALA:HB2	2.03	0.41
1:K8:406:LEU:HD22	1:K8:474:ILE:HG13	2.02	0.41
1:K8:494:TYR:HE2	1:K8:528:THR:HG21	1.85	0.41
1:L0:480:ARG:O	1:L0:484:VAL:HG12	2.21	0.41
1:L2:451:ASP:CG	1:L2:452:GLY:H	2.29	0.41
1:L2:575:LEU:HB3	1:L2:577:ASN:HD22	1.84	0.41
1:L2:644:ALA:O	1:L2:645:THR:OG1	2.37	0.41
1:L4:11:LYS:HE2	1:L4:13:THR:HG21	2.02	0.41
1:L7:613:ASN:HD22	1:L7:613:ASN:N	2.19	0.41
1:L8:331:PRO:O	1:L8:333:GLY:N	2.51	0.41
1:L9:518:TYR:CE2	1:L9:539:LYS:HD2	2.55	0.41
1:LS:107:GLY:HA3	1:LS:110:TYR:CE2	2.56	0.41
1:LS:228:GLY:HA2	1:LS:345:SER:HB3	2.02	0.41
1:LU:32:LYS:NZ	1:LU:60:GLU:HG2	2.36	0.41
1:LU:171:ILE:H	1:LU:171:ILE:HG13	1.62	0.41
1:LU:417:ILE:HG22	1:LU:421:ARG:HH11	1.85	0.41
1:LW:378:CYS:SG	1:LW:454:TYR:OH	2.65	0.41
1:LW:455:LYS:HD3	1:LW:502:VAL:CG2	2.50	0.41
1:LX:511:GLN:OE1	1:LX:514:ARG:NH2	2.54	0.41
1:LZ:455:LYS:O	1:LZ:455:LYS:HG3	2.21	0.41
1:La:16:GLN:OE1	1:La:460:LYS:HD3	2.21	0.41
1:La:24:THR:O	1:La:483:ASN:ND2	2.39	0.41
1:Le:34:GLN:O	1:Le:82:ARG:NH2	2.54	0.41
1:Le:137:ASP:OD1	1:Le:137:ASP:N	2.41	0.41
1:Le:371:GLN:HE21	1:Le:371:GLN:HB2	1.65	0.41
1:Le:440:ASN:OD1	1:Le:440:ASN:N	2.52	0.41
1:Le:456:TYR:HD1	1:Le:456:TYR:HA	1.75	0.41
1:Lv:486:GLN:NE2	2:OC:11:GLU:OE1	2.38	0.41
1:Lw:107:GLY:HA3	1:Lw:110:TYR:HE2	1.86	0.41
1:Lw:252:LEU:O	1:Lw:260:THR:HA	2.21	0.41
1:Lw:409:PRO:HB3	1:Lw:426:LEU:HD21	2.02	0.41
1:Lx:518:TYR:CE2	1:Lx:539:LYS:HD2	2.56	0.41
1:M0:135:ASP:OD1	1:M0:136:ALA:N	2.54	0.41
1:M2:477:LEU:HD23	1:M2:535:LEU:HD12	2.03	0.41
1:M4:448:ALA:O	1:M4:541:ALA:HB3	2.19	0.41
1:M6:142:LYS:HB2	1:M6:142:LYS:HE2	1.88	0.41
1:M6:222:VAL:HG22	1:M6:325:ALA:HB2	2.01	0.41
1:M7:545:PRO:HB2	1:Ng:304:ILE:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M8:3:LEU:HD11	1:M8:9:GLU:HB2	2.03	0.41
1:M8:88:THR:HB	1:M8:346:SER:HB3	2.01	0.41
1:M8:278:GLN:HG2	1:M8:296:SER:HB3	2.02	0.41
1:M8:527:GLY:O	1:M8:528:THR:C	2.64	0.41
1:M8:653:GLU:H	1:M8:653:GLU:HG2	1.65	0.41
1:M9:117:THR:HG23	1:M9:127:THR:HG22	2.02	0.41
1:M9:355:LEU:HA	1:M9:355:LEU:HD23	1.82	0.41
1:M9:567:SER:OG	1:M9:587:GLU:OE2	2.35	0.41
1:M9:655:THR:HB	1:Ni:19:VAL:HG21	2.03	0.41
1:MQ:269:PHE:CE2	1:MQ:280:ALA:HB1	2.56	0.41
1:MQ:505:LEU:HD12	1:MQ:505:LEU:HA	1.84	0.41
1:MQ:551:ILE:H	1:MQ:551:ILE:HG13	1.72	0.41
1:MR:655:THR:HB	1:Mw:19:VAL:HG21	2.03	0.41
1:MW:404:LEU:HD22	1:MW:404:LEU:HA	1.97	0.41
1:MY:572:LEU:HA	1:MY:572:LEU:HD13	1.69	0.41
1:MZ:153:LYS:O	1:MZ:157:VAL:HG22	2.21	0.41
1:Ma:202:GLU:H	1:Ma:202:GLU:HG3	1.56	0.41
1:Mb:302:LYS:HA	1:Mb:302:LYS:HD2	1.78	0.41
1:Mc:70:ASN:OD1	1:Mc:457:GLN:NE2	2.53	0.41
1:Mc:406:LEU:HD22	1:Mc:474:ILE:HG13	2.02	0.41
1:Md:120:TYR:HE1	1:Md:166:ASN:HD22	1.69	0.41
1:Md:463:ASP:OD1	1:Me:317:LYS:NZ	2.54	0.41
1:Me:253:PRO:HA	1:Me:260:THR:HG22	2.02	0.41
1:Mw:252:LEU:HD22	1:Mw:335:SER:O	2.20	0.41
1:Mx:143:ILE:HD12	1:Mx:145:ILE:HD11	2.01	0.41
1:Mz:349:GLU:OE1	1:Mz:349:GLU:N	2.53	0.41
1:NV:637:TYR:HD2	1:Nv:3:LEU:HB2	1.86	0.41
1:NW:186:LYS:H	1:NW:186:LYS:HG3	1.79	0.41
1:NZ:453:ASN:OD1	1:NZ:505:LEU:HG	2.21	0.41
1:Nc:130:LYS:HE2	1:Nc:130:LYS:HB2	1.90	0.41
1:Nd:315:PHE:CE2	1:Nd:325:ALA:HB3	2.56	0.41
1:Nf:256:PRO:HG2	1:Nf:339:THR:H	1.86	0.41
1:Nv:35:TRP:O	1:Nv:54:PHE:HA	2.21	0.41
1:Nv:46:ASN:HB3	1:Nv:49:ASP:H	1.85	0.41
1:Nv:390:GLN:O	1:Nv:394:VAL:HG23	2.21	0.41
1:Nx:34:GLN:OE1	1:Nx:58:THR:OG1	2.39	0.41
1:Nz:505:LEU:HD21	1:Nz:525:VAL:HG12	2.02	0.41
2:OC:140:LEU:HD21	2:OC:151:GLN:OE1	2.20	0.41
2:OD:41:LEU:HD11	2:OD:113:VAL:HG21	2.02	0.41
2:Oi:27:TYR:CD1	2:Oi:109:LYS:HE2	2.56	0.41
2:Oi:54:MET:H	2:Oi:54:MET:HG2	1.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ok:56:ARG:HB3	2:Ok:56:ARG:NH1	2.34	0.41
2:Om:53:PHE:CE2	2:On:5:ASP:HB2	2.56	0.41
2:Oo:2:PHE:HA	2:Pn:98:GLU:HA	2.02	0.41
2:Oq:94:GLY:HA3	2:Oq:100:THR:OG1	2.21	0.41
2:PF:41:LEU:HD12	2:PF:41:LEU:HA	1.91	0.41
2:PI:115:GLN:OE1	2:Pn:151:GLN:NE2	2.54	0.41
2:PJ:118:ARG:HA	2:PJ:118:ARG:HD2	1.90	0.41
2:PM:106:GLU:O	2:PM:109:LYS:NZ	2.54	0.41
2:PN:73:VAL:HG12	2:PN:74:MET:O	2.21	0.41
2:PO:31:ASN:OD1	2:PO:31:ASN:N	2.37	0.41
2:Pi:46:VAL:O	2:RD:135:THR:HB	2.21	0.41
2:Pl:2:PHE:HB3	2:Rk:97:ASN:HB3	2.02	0.41
2:Pn:104:PRO:HA	2:Pn:107:TYR:CE2	2.56	0.41
2:Ps:76:ASP:OD2	2:Ps:80:ASP:HB3	2.21	0.41
2:RE:67:ASP:OD1	2:RE:67:ASP:N	2.53	0.41
2:RL:67:ASP:OD1	2:RL:67:ASP:N	2.41	0.41
2:Rt:88:TRP:CD1	2:Rt:88:TRP:C	2.97	0.41
1:K0:4:LEU:HB2	1:Nj:515:ASP:HB3	2.02	0.41
1:K0:151:ILE:HD12	1:K0:152:ALA:N	2.36	0.41
1:K0:512:ALA:O	1:K0:516:ARG:HG3	2.21	0.41
1:K0:515:ASP:CG	1:Le:4:LEU:HB2	2.46	0.41
1:K1:153:LYS:HB3	1:K1:167:TRP:HH2	1.86	0.41
1:K1:381:GLU:HB3	1:K1:385:THR:HG23	2.03	0.41
1:K1:561:LYS:HG2	1:Nz:642:PHE:CE2	2.56	0.41
1:K2:157:VAL:HG23	1:K2:159:GLU:H	1.86	0.41
1:K2:368:VAL:O	1:K2:400:ARG:NH2	2.54	0.41
1:K2:526:THR:OG1	1:K3:366:GLU:OE2	2.24	0.41
1:K2:650:ASP:C	1:K2:652:ASP:H	2.29	0.41
1:K3:488:TRP:HB3	1:K3:556:LEU:HD13	2.03	0.41
1:K3:572:LEU:HA	1:K3:572:LEU:HD12	1.83	0.41
1:K4:505:LEU:HA	1:K4:505:LEU:HD12	1.80	0.41
1:K5:51:VAL:HG22	1:K5:65:PHE:HZ	1.85	0.41
1:K5:160:TYR:HA	1:K5:161:PRO:HA	1.85	0.41
1:K5:456:TYR:O	1:K5:503:ILE:HG23	2.21	0.41
1:K6:33:PHE:HA	1:K6:61:THR:CG2	2.49	0.41
1:K6:126:GLU:OE1	1:K6:149:LYS:HE2	2.20	0.41
1:K7:296:SER:O	1:K7:311:ILE:HG13	2.21	0.41
1:K7:479:ALA:O	1:K7:482:ASP:HB3	2.21	0.41
1:K8:202:GLU:H	1:K8:202:GLU:HG3	1.65	0.41
1:K8:389:VAL:O	1:K8:393:VAL:HG23	2.21	0.41
1:K9:91:ASN:HD21	1:K9:195:LEU:HG	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K9:131:ILE:HD13	1:K9:140:ILE:HG21	2.02	0.41
1:L0:221:GLY:O	1:L0:325:ALA:HA	2.21	0.41
1:L0:409:PRO:HA	1:L0:429:TRP:CZ3	2.56	0.41
1:L1:467:TRP:HZ3	1:L2:199:GLU:HB2	1.86	0.41
1:L1:485:SER:OG	1:L1:486:GLN:N	2.54	0.41
1:L1:540:THR:HG23	1:L1:551:ILE:HG12	2.03	0.41
1:L2:332:GLU:OE1	1:L2:332:GLU:N	2.42	0.41
1:L3:32:LYS:NZ	1:L3:60:GLU:HG2	2.36	0.41
1:L3:137:ASP:OD1	1:L3:137:ASP:N	2.51	0.41
1:L4:40:GLN:H	1:L4:81:VAL:HG23	1.85	0.41
1:L4:406:LEU:HD13	1:L4:475:ALA:HB2	2.03	0.41
1:L4:455:LYS:NZ	1:L4:473:ASP:OD2	2.45	0.41
1:L4:617:VAL:HG13	1:L4:622:GLU:HB2	2.03	0.41
1:L5:16:GLN:HE21	1:L5:16:GLN:HB2	1.55	0.41
1:L5:221:GLY:O	1:L5:325:ALA:HA	2.21	0.41
1:L5:527:GLY:O	1:L5:528:THR:C	2.64	0.41
1:L6:654:LEU:HD23	1:L6:654:LEU:HA	1.87	0.41
1:L7:382:SER:OG	1:L7:385:THR:HG22	2.21	0.41
1:L7:617:VAL:HA	1:L7:620:ARG:HD2	2.03	0.41
1:L8:315:PHE:HB3	1:L8:324:PHE:CD1	2.56	0.41
1:L8:572:LEU:HD12	1:L8:572:LEU:HA	1.77	0.41
1:L9:29:LEU:O	1:L9:80:VAL:HA	2.21	0.41
1:L9:114:ASP:O	1:L9:130:LYS:HB3	2.21	0.41
1:LQ:29:LEU:O	1:LQ:80:VAL:HA	2.20	0.41
1:LQ:32:LYS:HE2	1:LQ:350:VAL:HB	2.02	0.41
1:LR:24:THR:O	1:LR:483:ASN:ND2	2.44	0.41
1:LR:299:ARG:H	1:LR:299:ARG:HG2	1.53	0.41
1:LR:429:TRP:CZ2	1:LR:441:PHE:HB2	2.56	0.41
1:LS:229:GLU:H	1:LS:229:GLU:HG2	1.63	0.41
1:LS:451:ASP:CG	1:LS:452:GLY:N	2.79	0.41
1:LS:511:GLN:OE1	1:LS:514:ARG:NH2	2.54	0.41
1:LV:159:GLU:OE2	1:LV:166:ASN:ND2	2.54	0.41
1:LV:635:ILE:O	1:LW:573:PHE:HA	2.20	0.41
1:LW:90:LYS:HA	1:LW:90:LYS:HD3	1.86	0.41
1:LW:505:LEU:HD12	1:LW:505:LEU:HA	1.88	0.41
1:LX:346:SER:O	1:LX:350:VAL:HG23	2.20	0.41
1:LX:378:CYS:HB2	1:LX:410:PRO:HA	2.02	0.41
1:LY:529:GLY:C	1:LY:531:ASP:H	2.29	0.41
1:LY:569:LYS:O	1:LY:572:LEU:HB2	2.21	0.41
1:LZ:108:SER:O	1:LZ:177:GLY:HA2	2.20	0.41
1:LZ:653:GLU:O	1:LZ:654:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:La:35:TRP:O	1:La:54:PHE:HA	2.21	0.41
1:La:456:TYR:O	1:La:503:ILE:HG12	2.21	0.41
1:La:497:GLY:O	1:La:534:VAL:HA	2.21	0.41
1:Lb:110:TYR:CE1	1:Lb:171:ILE:HD12	2.56	0.41
1:Lb:505:LEU:HD12	1:Lb:505:LEU:HA	1.92	0.41
1:Lc:187:ILE:HD13	1:Lc:187:ILE:HA	1.94	0.41
1:Lc:213:ASN:O	1:Lc:217:TYR:HD2	2.03	0.41
1:Lc:653:GLU:H	1:Lc:653:GLU:HG2	1.56	0.41
1:Ld:33:PHE:O	1:Ld:82:ARG:NH2	2.54	0.41
1:Ld:216:LYS:HD3	1:Ld:217:TYR:CE2	2.56	0.41
1:Ld:538:ASP:O	1:Ld:550:ARG:HA	2.21	0.41
1:Le:135:ASP:N	1:Le:139:LYS:O	2.53	0.41
1:Le:153:LYS:O	1:Le:157:VAL:HG13	2.20	0.41
1:Lv:142:LYS:HB2	1:Lv:142:LYS:HE2	1.88	0.41
1:Lv:310:TYR:CE2	1:Lv:312:ASP:HB2	2.56	0.41
1:Lv:352:ALA:O	1:Lv:356:MET:HG3	2.21	0.41
1:Lv:382:SER:OG	1:Lv:385:THR:HG22	2.21	0.41
1:Lv:497:GLY:O	1:Lv:534:VAL:HA	2.20	0.41
1:Lv:651:PHE:O	1:Lv:654:LEU:HB2	2.21	0.41
1:Lw:89:ALA:HA	1:Lw:344:LEU:O	2.21	0.41
1:Lw:413:THR:OG1	1:Lw:425:ASN:HB3	2.20	0.41
1:Lw:494:TYR:CE2	1:Lw:528:THR:HG21	2.56	0.41
1:Lz:239:VAL:HG22	1:Lz:280:ALA:HB3	2.03	0.41
1:Lz:269:PHE:CE1	1:Lz:280:ALA:HB1	2.56	0.41
1:Lz:440:ASN:N	1:Lz:440:ASN:OD1	2.52	0.41
1:M0:131:ILE:HD11	1:M0:171:ILE:HD13	2.02	0.41
1:M1:595:ILE:HD13	1:M1:595:ILE:HA	1.86	0.41
1:M2:205:MET:HE1	1:M2:221:GLY:O	2.20	0.41
1:M2:209:ASP:OD1	1:M2:209:ASP:N	2.54	0.41
1:M3:19:VAL:HG21	1:MX:655:THR:HB	2.03	0.41
1:M5:200:ASN:OD1	1:M5:200:ASN:N	2.53	0.41
1:M5:592:LEU:HD12	1:M5:592:LEU:HA	1.79	0.41
1:M7:470:LEU:HD12	1:M7:470:LEU:HA	1.81	0.41
1:M8:400:ARG:HH11	1:M8:403:CYS:HG	1.63	0.41
1:M9:202:GLU:H	1:M9:202:GLU:HG3	1.63	0.41
1:M9:563:ASN:ND2	1:M9:566:ARG:HH12	2.16	0.41
1:MQ:269:PHE:CZ	1:MQ:292:SER:HB2	2.56	0.41
1:MQ:495:ASN:OD1	1:MQ:495:ASN:N	2.37	0.41
1:MR:252:LEU:HD22	1:MR:335:SER:O	2.21	0.41
1:MU:365:ARG:HA	1:MU:400:ARG:NH2	2.36	0.41
1:MU:401:GLN:O	1:MU:561:LYS:HE3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MU:494:TYR:HE2	1:MU:528:THR:HG21	1.86	0.41
1:MV:77:ASP:OD2	1:MV:79:ARG:NH1	2.51	0.41
1:MV:159:GLU:OE2	1:MV:166:ASN:ND2	2.54	0.41
1:MV:468:VAL:HG12	1:MV:469:PRO:O	2.20	0.41
1:MX:37:PRO:O	1:MX:82:ARG:HD3	2.20	0.41
1:MX:107:GLY:HA3	1:MX:110:TYR:CE2	2.55	0.41
1:MX:195:LEU:HD21	1:MX:223:VAL:HG21	2.03	0.41
1:MY:31:GLY:HA3	1:MY:64:TYR:CE2	2.56	0.41
1:MY:72:LEU:HA	1:MY:72:LEU:HD12	1.78	0.41
1:MY:497:GLY:O	1:MY:534:VAL:HA	2.21	0.41
1:MY:527:GLY:O	1:MY:528:THR:C	2.64	0.41
1:MZ:238:ILE:HG12	1:MZ:281:ILE:HD13	2.02	0.41
1:Ma:77:ASP:OD2	1:Ma:79:ARG:NH2	2.54	0.41
1:Ma:379:ALA:HB2	1:Ma:454:TYR:CE2	2.56	0.41
1:Mb:132:THR:OG1	1:Mb:142:LYS:HG2	2.21	0.41
1:Mb:612:ASN:N	1:Mb:612:ASN:OD1	2.53	0.41
1:Mc:430:ARG:HD2	1:Mc:520:GLU:O	2.21	0.41
1:Md:455:LYS:HD2	1:Md:502:VAL:HG22	2.03	0.41
1:Me:100:GLU:HG3	1:Me:185:GLY:HA3	2.02	0.41
1:Me:382:SER:OG	1:Me:385:THR:HG22	2.21	0.41
1:Mv:100:GLU:HG2	1:Mv:186:LYS:HD2	2.02	0.41
1:Mv:494:TYR:HE2	1:Mv:528:THR:HG21	1.85	0.41
1:Mv:521:ALA:HA	1:Mv:539:LYS:HE3	2.02	0.41
1:Mv:601:ILE:H	1:Mv:601:ILE:HG13	1.65	0.41
1:Mw:35:TRP:O	1:Mw:54:PHE:HA	2.21	0.41
1:Mw:229:GLU:OE1	1:Mw:344:LEU:HA	2.21	0.41
1:Mw:423:VAL:HG21	1:Mw:513:GLN:HB3	2.03	0.41
1:Mw:451:ASP:O	1:Mw:522:ILE:HG23	2.21	0.41
1:Mw:577:ASN:C	1:Mw:581:ARG:HH21	2.29	0.41
1:Mx:244:TYR:CZ	1:Mx:266:LYS:HD2	2.56	0.41
1:Mz:229:GLU:OE2	1:Mz:345:SER:OG	2.34	0.41
1:Mz:581:ARG:HE	1:Mz:581:ARG:HB2	1.70	0.41
1:NV:206:THR:HA	1:NV:211:GLN:HE21	1.86	0.41
1:NW:230:LEU:HD23	1:NW:230:LEU:HA	1.88	0.41
1:NX:31:GLY:O	1:NX:82:ARG:HA	2.21	0.41
1:NX:131:ILE:HD13	1:NX:140:ILE:HG21	2.02	0.41
1:NX:605:ARG:HB3	1:NX:605:ARG:HH11	1.85	0.41
1:Na:639:THR:HB	1:Nb:624:VAL:HG12	2.03	0.41
1:Nb:42:LYS:HE2	1:Nb:53:THR:HG21	2.02	0.41
1:Nb:205:MET:HE2	1:Nb:205:MET:HB3	1.86	0.41
1:Nb:244:TYR:CE2	1:Nb:272:GLY:HA3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nb:554:ARG:O	1:Nb:554:ARG:HD3	2.21	0.41
1:Nc:351:THR:OG1	1:Nc:352:ALA:N	2.54	0.41
1:Nc:510:ARG:HG2	1:Nc:511:GLN:H	1.86	0.41
1:Nc:653:GLU:H	1:Nc:653:GLU:HG2	1.68	0.41
1:Nd:35:TRP:O	1:Nd:54:PHE:HA	2.20	0.41
1:Nd:453:ASN:HB2	1:Nd:506:ALA:HB3	2.03	0.41
1:Nd:455:LYS:NZ	1:Nd:473:ASP:OD1	2.53	0.41
1:Ne:34:GLN:NE2	1:Ne:56:GLN:H	2.19	0.41
1:Ne:344:LEU:HD13	1:Ne:344:LEU:HA	1.92	0.41
1:Ne:453:ASN:HB3	1:Ne:507:ILE:HG12	2.03	0.41
1:Nf:252:LEU:HD11	1:Nf:263:SER:HB2	2.03	0.41
1:Nf:344:LEU:HD22	1:Nf:344:LEU:HA	1.89	0.41
1:Nf:481:THR:HG23	1:Nf:485:SER:HB3	2.03	0.41
1:Ng:109:ASN:N	1:Ng:138:GLY:HA3	2.35	0.41
1:Nh:650:ASP:C	1:Nh:652:ASP:H	2.28	0.41
1:Ni:350:VAL:HG13	1:Ni:354:ASP:HB2	2.03	0.41
1:Ni:456:TYR:O	1:Ni:503:ILE:HG23	2.20	0.41
1:Ni:554:ARG:HD3	1:Ni:554:ARG:O	2.21	0.41
1:Ni:612:ASN:HB3	1:Ni:624:VAL:HG23	2.03	0.41
1:Nj:69:MET:O	1:Nj:73:GLN:HG2	2.21	0.41
1:Nj:315:PHE:CE2	1:Nj:323:ILE:HG13	2.56	0.41
1:Nj:592:LEU:HD13	1:Nj:592:LEU:HA	1.90	0.41
1:Nv:116:ILE:HD12	1:Nv:171:ILE:HG12	2.02	0.41
1:Nv:604:TYR:HB2	1:Nv:629:ILE:HG22	2.03	0.41
1:Nw:355:LEU:HD23	1:Nw:355:LEU:HA	1.81	0.41
1:Nw:456:TYR:CB	1:Nw:504:LYS:HG2	2.51	0.41
1:Nx:432:ALA:CB	1:Nx:440:ASN:HD22	2.33	0.41
1:Nx:450:ILE:HD13	1:Nx:522:ILE:HG12	2.03	0.41
1:Nz:107:GLY:O	1:Nz:139:LYS:HD2	2.21	0.41
1:Nz:364:ASP:OD1	1:Nz:366:GLU:HG3	2.21	0.41
1:Nz:650:ASP:C	1:Nz:652:ASP:H	2.28	0.41
2:OD:48:LYS:HG3	2:OD:59:ASN:HD22	1.86	0.41
2:OE:25:ILE:C	2:OE:27:TYR:H	2.29	0.41
2:OE:116:TYR:CE1	2:OE:123:VAL:HG22	2.55	0.41
2:OF:1:MET:HE2	2:Ok:120:ALA:HB1	2.02	0.41
2:OF:4:ASP:OD1	2:OF:4:ASP:N	2.54	0.41
2:OF:82:ARG:NH1	2:OF:138:GLY:HA2	2.36	0.41
2:OG:39:THR:HG22	2:OG:71:VAL:HG13	2.03	0.41
2:OG:57:LYS:HB3	2:OG:57:LYS:HE2	1.68	0.41
2:OH:27:TYR:CE1	2:OH:109:LYS:HE2	2.56	0.41
2:OI:1:MET:HE2	2:OI:1:MET:HB3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OI:17:ARG:HB2	2:OI:20:LEU:HD12	2.03	0.41
2:OI:104:PRO:HB3	2:OI:108:LYS:HD2	2.02	0.41
2:OL:49:ILE:HD11	2:Or:150:ILE:HG22	2.02	0.41
2:OM:62:GLY:O	2:ON:118:ARG:NH2	2.53	0.41
2:OM:75:ASN:OD1	2:OM:79:HIS:HA	2.20	0.41
2:Oj:82:ARG:HH12	2:Oj:138:GLY:HA2	1.84	0.41
2:Oj:104:PRO:O	2:Oj:108:LYS:HB2	2.20	0.41
2:Oj:118:ARG:HA	2:Oj:118:ARG:HD2	1.90	0.41
2:Oj:120:ALA:HB2	2:PD:99:ILE:O	2.21	0.41
2:Ok:23:VAL:HG22	2:Ok:36:CYS:SG	2.61	0.41
2:Ok:24:GLU:HB3	2:Ok:112:ILE:HG23	2.03	0.41
2:Ol:112:ILE:HD11	2:Ol:126:GLU:OE2	2.20	0.41
2:Os:23:VAL:HG11	2:Os:39:THR:HG21	2.03	0.41
2:PD:23:VAL:HG22	2:PD:36:CYS:SG	2.61	0.41
2:PE:41:LEU:HD22	2:Pj:140:LEU:HD23	2.03	0.41
2:PF:82:ARG:O	2:PF:86:VAL:HG13	2.20	0.41
2:PG:1:MET:HB2	2:PG:1:MET:HE3	1.60	0.41
2:PG:91:ILE:HG22	2:PG:107:TYR:HB3	2.03	0.41
2:PI:50:PRO:HA	2:PI:59:ASN:HA	2.02	0.41
2:Ph:47:GLU:HB2	2:RD:148:ASN:OD1	2.21	0.41
2:Ph:69:TRP:HB2	2:Ph:159:LEU:HD23	2.02	0.41
2:Pi:39:THR:HG22	2:Pi:71:VAL:HG13	2.03	0.41
2:Pi:54:MET:O	2:Pi:56:ARG:N	2.54	0.41
2:Pi:137:VAL:HA	2:Pi:155:VAL:HG22	2.01	0.41
2:Pl:3:VAL:N	2:Rk:97:ASN:O	2.53	0.41
2:Pl:56:ARG:HB3	2:Pl:56:ARG:NH1	2.36	0.41
2:Pl:107:TYR:O	2:Pl:133:TRP:HB3	2.20	0.41
2:Pl:119:ASP:OD1	2:RF:100:THR:HA	2.20	0.41
2:Pm:124:THR:O	2:Pm:125:LYS:HB3	2.20	0.41
2:Po:136:ASN:O	2:Po:136:ASN:ND2	2.43	0.41
2:Pq:27:TYR:CE1	2:Pq:109:LYS:HE2	2.55	0.41
2:Pq:38:ALA:HB3	2:Pq:72:THR:HG23	2.03	0.41
2:Pq:82:ARG:HH11	2:Pq:138:GLY:HA2	1.86	0.41
2:Pq:125:LYS:HD2	2:Pq:127:ILE:HG22	2.01	0.41
2:Ps:23:VAL:HG11	2:Ps:39:THR:HG21	2.02	0.41
2:Ps:140:LEU:HD13	2:Ps:153:PHE:HB3	2.03	0.41
2:RD:14:ASP:OD1	2:RR:104:PRO:HD3	2.20	0.41
2:RE:132:LEU:HD12	2:RE:132:LEU:HA	1.86	0.41
2:RI:82:ARG:O	2:RI:86:VAL:HG13	2.21	0.41
2:RL:62:GLY:O	2:RM:118:ARG:NH2	2.53	0.41
2:RR:56:ARG:HB3	2:RR:56:ARG:NH1	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RS:75:ASN:HB3	2:RS:151:GLN:HG2	2.03	0.41
2:RS:134:PRO:HA	2:RS:157:LEU:HA	2.03	0.41
2:RT:1:MET:HE3	2:RT:1:MET:HB2	1.50	0.41
2:Rl:25:ILE:HG22	2:Rl:27:TYR:H	1.86	0.41
2:Rm:56:ARG:HB3	2:Rm:56:ARG:HH11	1.86	0.41
2:Rn:132:LEU:HA	2:Rn:158:ALA:O	2.20	0.41
2:Ro:23:VAL:HG13	2:Ro:36:CYS:SG	2.61	0.41
2:Ro:140:LEU:HD12	2:Ro:140:LEU:HA	1.89	0.41
2:Rp:23:VAL:HG22	2:Rp:36:CYS:SG	2.60	0.41
2:Rp:107:TYR:O	2:Rp:133:TRP:HB3	2.21	0.41
2:Rt:1:MET:HB2	2:Rt:1:MET:HE3	1.67	0.41
2:Rt:131:GLY:O	2:Rt:159:LEU:HA	2.21	0.41
2:Rt:140:LEU:HD21	2:Rt:151:GLN:OE1	2.21	0.41
1:K0:345:SER:OG	1:K0:346:SER:N	2.44	0.41
1:K1:42:LYS:HE3	1:K1:42:LYS:HB3	1.95	0.41
1:K2:130:LYS:NZ	1:K2:132:THR:HG22	2.36	0.41
1:K2:302:LYS:HD3	1:K2:302:LYS:HA	1.79	0.41
1:K4:500:LEU:HD23	1:K4:500:LEU:HA	1.94	0.41
1:K6:202:GLU:H	1:K6:202:GLU:HG3	1.62	0.41
1:K7:141:LYS:NZ	1:K7:141:LYS:HA	2.36	0.41
1:K7:252:LEU:HD12	1:K7:337:ILE:HD11	2.03	0.41
1:K7:423:VAL:HG21	1:K7:513:GLN:HB3	2.03	0.41
1:K7:505:LEU:HA	1:K7:505:LEU:HD12	1.79	0.41
1:K8:153:LYS:HB3	1:K8:167:TRP:HH2	1.86	0.41
1:K8:636:ASN:O	1:Lc:6:PRO:HA	2.21	0.41
1:L0:654:LEU:HA	1:L0:654:LEU:HD23	1.82	0.41
1:L1:115:LYS:HD2	1:L1:115:LYS:HA	1.90	0.41
1:L2:355:LEU:HD23	1:L2:355:LEU:HA	1.83	0.41
1:L3:490:SER:OG	1:L3:538:ASP:OD2	2.27	0.41
1:L3:527:GLY:HA2	1:L3:533:TYR:CD2	2.56	0.41
1:L4:612:ASN:HB3	1:L4:624:VAL:CG2	2.51	0.41
1:L4:614:THR:C	1:L4:616:SER:H	2.29	0.41
1:L4:628:TYR:OH	1:MX:15:VAL:O	2.34	0.41
1:L6:90:LYS:O	1:L6:343:GLY:HA2	2.21	0.41
1:L7:134:VAL:HG12	1:L7:140:ILE:HG22	2.02	0.41
1:L7:219:ILE:HD13	1:L7:219:ILE:H	1.86	0.41
1:L7:428:ASN:HB3	1:L7:433:ALA:O	2.21	0.41
1:L8:14:THR:HG22	1:Lc:643:VAL:HG13	2.01	0.41
1:L8:15:VAL:O	1:Ld:628:TYR:OH	2.38	0.41
1:LQ:362:PHE:HB3	1:LQ:373:PHE:HE1	1.86	0.41
1:LR:221:GLY:O	1:LR:325:ALA:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LR:630:GLN:HA	1:LR:631:PRO:HD3	1.95	0.41
1:LS:91:ASN:OD1	1:LS:194:LEU:HA	2.21	0.41
1:LS:157:VAL:HG23	1:LS:159:GLU:HG3	2.02	0.41
1:LV:343:GLY:O	1:LV:344:LEU:HD22	2.21	0.41
1:LX:12:GLU:H	1:LX:12:GLU:HG2	1.52	0.41
1:LY:351:THR:HG22	1:LY:354:ASP:OD2	2.21	0.41
1:Ld:278:GLN:HG2	1:Ld:296:SER:HB2	2.03	0.41
1:Lv:22:ASN:HB2	1:Lv:75:GLY:O	2.21	0.41
1:Lv:51:VAL:HG22	1:Lv:65:PHE:HZ	1.85	0.41
1:Lv:119:LYS:HG2	1:Lv:124:ASP:CG	2.46	0.41
1:Lw:193:ILE:HG21	1:Lw:223:VAL:HG11	2.02	0.41
1:Lx:401:GLN:O	1:Lx:561:LYS:HE3	2.20	0.41
1:Lz:229:GLU:H	1:Lz:229:GLU:HG2	1.70	0.41
1:Lz:453:ASN:OD1	1:Lz:505:LEU:HG	2.21	0.41
1:M1:311:ILE:HB	1:M1:327:ALA:HB2	2.03	0.41
1:M1:456:TYR:HD1	1:M1:456:TYR:HA	1.79	0.41
1:M2:379:ALA:N	1:M2:454:TYR:OH	2.54	0.41
1:M3:650:ASP:C	1:M3:652:ASP:H	2.29	0.41
1:M4:202:GLU:H	1:M4:202:GLU:HG3	1.61	0.41
1:M5:137:ASP:OD1	1:M5:137:ASP:N	2.51	0.41
1:M5:536:TYR:HD1	1:M5:536:TYR:HA	1.69	0.41
1:M7:110:TYR:H	1:M7:138:GLY:CA	2.34	0.41
1:M7:379:ALA:HA	1:M7:411:ARG:HB2	2.03	0.41
1:M8:187:ILE:HD13	1:M8:187:ILE:HA	1.95	0.41
1:M9:100:GLU:HB3	1:M9:188:ILE:HD11	2.01	0.41
1:MR:129:GLY:HA3	1:MR:145:ILE:HD13	2.02	0.41
1:MR:251:LEU:HD23	1:MR:262:ALA:HA	2.03	0.41
1:MS:419:VAL:O	1:MS:423:VAL:HG23	2.20	0.41
1:MU:304:ILE:HG13	1:MU:305:TYR:CD1	2.56	0.41
1:MU:612:ASN:OD1	1:MU:612:ASN:N	2.53	0.41
1:MW:283:VAL:O	1:MW:290:VAL:HG12	2.21	0.41
1:MW:654:LEU:HD21	1:MX:628:TYR:CE1	2.55	0.41
1:MZ:193:ILE:HD12	1:MZ:193:ILE:HA	1.83	0.41
1:MZ:489:MET:HE1	1:Ma:575:LEU:HD13	2.02	0.41
1:Ma:221:GLY:O	1:Ma:325:ALA:HA	2.21	0.41
1:Mb:62:ALA:O	1:Mb:66:MET:HB2	2.21	0.41
1:Mb:432:ALA:HB2	1:Mb:440:ASN:ND2	2.36	0.41
1:Mc:159:GLU:HB3	1:Mc:163:LEU:HA	2.03	0.41
1:Mc:559:MET:HE2	1:Mc:559:MET:HB2	1.89	0.41
1:Md:362:PHE:HB3	1:Md:373:PHE:HE2	1.86	0.41
1:Md:375:ALA:HB1	1:Md:390:GLN:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Me:44:VAL:HG11	1:Me:50:LEU:HB2	2.02	0.41
1:Me:100:GLU:HG2	1:Me:186:LYS:O	2.20	0.41
1:Mv:119:LYS:NZ	1:Mv:124:ASP:OD1	2.53	0.41
1:Mv:239:VAL:HG23	1:Mv:280:ALA:HB3	2.03	0.41
1:Mv:453:ASN:HB3	1:Mv:507:ILE:HG12	2.02	0.41
1:Mz:284:ARG:HG2	1:Mz:289:ILE:HD13	2.03	0.41
1:Mz:355:LEU:HA	1:Mz:355:LEU:HD23	1.81	0.41
1:Mz:644:ALA:O	1:Mz:645:THR:OG1	2.34	0.41
1:NV:85:ASP:H	1:NV:346:SER:CB	2.33	0.41
1:NW:423:VAL:HG21	1:NW:513:GLN:HB3	2.03	0.41
1:NX:95:ILE:HD13	1:NX:213:ASN:HB3	2.03	0.41
1:NX:98:ASN:HB2	1:NX:188:ILE:HD13	2.03	0.41
1:NX:116:ILE:HD12	1:NX:171:ILE:HG12	2.03	0.41
1:NX:400:ARG:HD3	1:NX:403:CYS:SG	2.61	0.41
1:NZ:40:GLN:H	1:NZ:81:VAL:HG23	1.86	0.41
1:NZ:379:ALA:HB2	1:NZ:454:TYR:HE2	1.86	0.41
1:Nb:298:LYS:NZ	1:Nb:298:LYS:HB2	2.35	0.41
1:Nb:302:LYS:HD3	1:Nb:302:LYS:HA	1.86	0.41
1:Nc:444:SER:HB3	1:Nc:543:SER:H	1.86	0.41
1:Nc:638:ILE:HG23	1:Nd:623:PHE:HD2	1.86	0.41
1:Nd:315:PHE:CE1	1:Nd:323:ILE:HG13	2.56	0.41
1:Ne:355:LEU:HD23	1:Ne:355:LEU:HA	1.88	0.41
1:Nf:394:VAL:HG11	1:Nf:443:ILE:HD12	2.02	0.41
1:Ng:139:LYS:HA	1:Ng:139:LYS:HD2	1.88	0.41
1:Nh:441:PHE:CZ	1:Nh:443:ILE:HD11	2.56	0.41
1:Nj:470:LEU:HD12	1:Nj:470:LEU:HA	1.88	0.41
1:Nj:653:GLU:H	1:Nj:653:GLU:HG2	1.67	0.41
1:Nv:27:ALA:HB3	1:Nv:78:LEU:HD12	2.02	0.41
1:Nv:378:CYS:HB3	1:Nv:390:GLN:NE2	2.36	0.41
1:Nx:2:THR:OG1	1:Nx:3:LEU:N	2.54	0.41
1:Nx:303:ASP:CG	1:Nx:304:ILE:N	2.79	0.41
1:Nz:346:SER:O	1:Nz:350:VAL:HG23	2.21	0.41
1:Nz:356:MET:HB3	1:Nz:392:HIS:CD2	2.56	0.41
2:OC:54:MET:HE2	2:OD:1:MET:HE1	2.03	0.41
2:OG:58:ILE:HD12	2:OH:6:VAL:HG21	2.03	0.41
2:OH:56:ARG:HB3	2:OH:56:ARG:NH1	2.36	0.41
2:OM:135:THR:O	2:Rr:45:ILE:HA	2.20	0.41
2:ON:53:PHE:HD1	2:ON:53:PHE:HA	1.78	0.41
2:Oo:27:TYR:CD1	2:Oo:109:LYS:HE2	2.56	0.41
2:Ot:53:PHE:HD1	2:Ot:53:PHE:HA	1.72	0.41
2:PF:132:LEU:HD12	2:PF:159:LEU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PH:38:ALA:HB3	2:PH:72:THR:HG23	2.03	0.41
2:PJ:1:MET:HE3	2:PJ:1:MET:HB2	1.80	0.41
2:PN:8:ARG:HE	2:PN:8:ARG:HB2	1.69	0.41
2:PN:41:LEU:HG	2:PN:127:ILE:HD11	2.03	0.41
2:Ph:56:ARG:NH2	2:RR:96:GLY:O	2.53	0.41
2:Pi:67:ASP:OD1	2:Pi:67:ASP:N	2.34	0.41
2:Pm:112:ILE:HD11	2:Pm:126:GLU:OE2	2.21	0.41
2:Pn:64:ARG:O	2:Pn:64:ARG:HG3	2.21	0.41
2:Pr:120:ALA:HB2	2:RL:99:ILE:O	2.21	0.41
2:RC:112:ILE:HD11	2:RC:126:GLU:OE2	2.21	0.41
2:RI:25:ILE:HG13	2:RI:32:PHE:CE2	2.56	0.41
2:RL:16:ALA:HB3	2:Rq:151:GLN:HB2	2.02	0.41
2:RL:56:ARG:HB3	2:RL:56:ARG:NH1	2.31	0.41
2:RM:91:ILE:HG22	2:RM:107:TYR:HB3	2.03	0.41
2:Rm:117:ALA:HB2	2:Rm:124:THR:HG23	2.02	0.41
2:Rp:42:PRO:HB2	2:Rp:43:ALA:H	1.64	0.41
2:Rs:43:ALA:O	2:Rs:162:TRP:NE1	2.51	0.41
1:K0:450:ILE:HG22	1:K0:541:ALA:HB2	2.02	0.40
1:K1:46:ASN:HB3	1:K1:49:ASP:H	1.86	0.40
1:K1:404:LEU:HD22	1:K1:404:LEU:HA	1.92	0.40
1:K1:494:TYR:HE2	1:K1:528:THR:HG21	1.85	0.40
1:K1:518:TYR:CE2	1:K1:539:LYS:HD2	2.56	0.40
1:K2:49:ASP:N	1:K2:49:ASP:OD1	2.53	0.40
1:K6:650:ASP:C	1:K6:652:ASP:H	2.28	0.40
1:K8:121:VAL:HG13	1:K8:166:ASN:HB3	2.03	0.40
1:L0:110:TYR:CD1	1:L0:177:GLY:HA3	2.56	0.40
1:L1:605:ARG:HH11	1:Lz:654:LEU:HD22	1.85	0.40
1:L3:109:ASN:N	1:L3:138:GLY:HA3	2.36	0.40
1:L3:432:ALA:HB2	1:L3:440:ASN:HD22	1.87	0.40
1:L3:596:LYS:HE2	1:L3:602:TYR:O	2.21	0.40
1:L4:32:LYS:HE2	1:L4:350:VAL:HB	2.03	0.40
1:L4:72:LEU:HD13	1:L4:72:LEU:HA	1.80	0.40
1:L4:369:ASP:OD1	1:L4:369:ASP:N	2.46	0.40
1:L4:517:LEU:HD12	1:L4:517:LEU:HA	1.85	0.40
1:L4:645:THR:HB	1:L4:650:ASP:OD1	2.21	0.40
1:L5:46:ASN:OD1	1:L5:47:GLU:N	2.53	0.40
1:L6:131:ILE:HD13	1:L6:140:ILE:HG21	2.03	0.40
1:L6:490:SER:OG	1:L6:538:ASP:OD2	2.25	0.40
1:L7:494:TYR:O	1:L7:498:GLN:NE2	2.46	0.40
1:L9:561:LYS:HD2	1:Mc:10:LEU:HB3	2.02	0.40
1:L9:614:THR:O	1:L9:616:SER:N	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LQ:202:GLU:H	1:LQ:202:GLU:HG3	1.67	0.40
1:LQ:650:ASP:C	1:LQ:652:ASP:N	2.78	0.40
1:LR:44:VAL:HG12	1:LR:72:LEU:HD21	2.03	0.40
1:LS:383:LEU:HD11	1:LS:436:TYR:HE1	1.85	0.40
1:LS:560:LEU:O	1:LS:564:ILE:HG23	2.21	0.40
1:LU:86:ARG:HD3	1:LU:86:ARG:H	1.86	0.40
1:LV:413:THR:OG1	1:LV:425:ASN:HB3	2.21	0.40
1:LW:470:LEU:HD12	1:LW:470:LEU:HA	1.69	0.40
1:LW:614:THR:C	1:LW:616:SER:H	2.29	0.40
1:LX:645:THR:HB	1:LX:650:ASP:OD1	2.21	0.40
1:Lb:220:PRO:HG2	1:Lb:338:LEU:HD11	2.02	0.40
1:Lb:451:ASP:OD2	1:Lb:470:LEU:HB3	2.21	0.40
1:Lc:470:LEU:HD21	1:Lc:525:VAL:HG11	2.02	0.40
1:Lc:494:TYR:HE2	1:Lc:528:THR:HG21	1.86	0.40
1:Ld:28:ALA:HB2	1:Ld:370:VAL:HG21	2.03	0.40
1:Ld:32:LYS:HB3	1:Ld:347:ASN:HD22	1.85	0.40
1:Ld:467:TRP:HH2	1:Le:199:GLU:HB3	1.86	0.40
1:Le:154:ALA:HA	1:Le:157:VAL:HG22	2.03	0.40
1:Le:171:ILE:H	1:Le:171:ILE:HG12	1.61	0.40
1:Lw:602:TYR:HB2	1:Lw:630:GLN:HG2	2.03	0.40
1:Lx:642:PHE:CE2	1:Lz:561:LYS:HG2	2.56	0.40
1:M0:72:LEU:HD13	1:M0:72:LEU:HA	1.88	0.40
1:M1:5:SER:N	1:MV:515:ASP:OD1	2.53	0.40
1:M2:488:TRP:CB	1:M2:556:LEU:HD12	2.51	0.40
1:M3:108:SER:O	1:M3:177:GLY:HA2	2.21	0.40
1:M3:110:TYR:CE1	1:M3:177:GLY:HA3	2.56	0.40
1:M3:360:ASP:OD1	1:M3:396:ILE:HD11	2.21	0.40
1:M4:19:VAL:HG21	1:MY:655:THR:HB	2.03	0.40
1:M4:614:THR:O	1:M4:616:SER:N	2.51	0.40
1:M5:346:SER:O	1:M5:350:VAL:HG23	2.20	0.40
1:M6:153:LYS:HD3	1:M6:156:GLU:HB2	2.03	0.40
1:M6:387:SER:O	1:M6:391:LYS:HG3	2.22	0.40
1:M9:115:LYS:HD2	1:M9:115:LYS:HA	1.90	0.40
1:M9:210:PHE:CE2	1:M9:214:LEU:HD11	2.56	0.40
1:MS:344:LEU:HD22	1:MS:344:LEU:HA	1.91	0.40
1:MU:36:GLY:O	1:MU:82:ARG:NH1	2.54	0.40
1:MW:109:ASN:N	1:MW:109:ASN:OD1	2.54	0.40
1:Mb:11:LYS:HG2	1:Mb:13:THR:HG23	2.02	0.40
1:Mb:355:LEU:HD23	1:Mb:355:LEU:HA	1.87	0.40
1:Md:198:ILE:HG23	1:Md:324:PHE:HE2	1.85	0.40
1:Me:42:LYS:HE3	1:Me:42:LYS:HB3	1.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Me:92:SER:HB3	1:Me:340:LEU:HB3	2.03	0.40
1:Mv:310:TYR:CE2	1:Mv:312:ASP:HB2	2.56	0.40
1:Mz:521:ALA:HA	1:Mz:539:LYS:HD3	2.03	0.40
1:Mz:612:ASN:HB3	1:Mz:624:VAL:CG2	2.51	0.40
1:NV:79:ARG:HD2	1:NV:370:VAL:HG12	2.02	0.40
1:NV:368:VAL:HG12	1:NV:370:VAL:HG13	2.02	0.40
1:NW:41:ILE:HD13	1:NW:81:VAL:HB	2.02	0.40
1:NW:126:GLU:OE2	1:NW:128:GLU:N	2.54	0.40
1:NW:604:TYR:HA	1:NW:628:TYR:O	2.21	0.40
1:Nb:243:ASP:OD1	1:Nb:243:ASP:N	2.54	0.40
1:Nc:96:ALA:HA	1:Nc:188:ILE:HG22	2.03	0.40
1:Nc:467:TRP:HZ3	1:Nd:199:GLU:HB2	1.85	0.40
1:Nd:103:ILE:HD13	1:Nd:182:ILE:HG22	2.03	0.40
1:Ne:131:ILE:HD11	1:Ne:171:ILE:HD13	2.02	0.40
1:Nf:100:GLU:HG2	1:Nf:186:LYS:O	2.21	0.40
1:Ng:132:THR:OG1	1:Ng:142:LYS:HG2	2.21	0.40
1:Ng:236:ILE:HG22	1:Ng:238:ILE:HG13	2.02	0.40
1:Nj:346:SER:O	1:Nj:350:VAL:HG23	2.21	0.40
1:Nx:69:MET:O	1:Nx:73:GLN:HG2	2.21	0.40
1:Nx:351:THR:OG1	1:Nx:352:ALA:N	2.54	0.40
2:OE:48:LYS:HD3	2:OE:59:ASN:OD1	2.21	0.40
2:OE:142:LEU:HD22	2:RT:41:LEU:HD13	2.03	0.40
2:ON:23:VAL:HG13	2:ON:36:CYS:SG	2.61	0.40
2:Oi:143:ASP:OD1	2:Oi:144:TRP:N	2.54	0.40
2:Ok:57:LYS:HB3	2:Ok:57:LYS:NZ	2.36	0.40
2:Ol:97:ASN:O	2:Rm:3:VAL:N	2.38	0.40
2:On:41:LEU:HB2	2:PI:140:LEU:HB3	2.04	0.40
2:Or:22:GLN:HB2	2:Or:116:TYR:HE2	1.86	0.40
2:PD:25:ILE:C	2:PD:27:TYR:H	2.29	0.40
2:PD:103:LYS:O	2:PD:106:GLU:HG2	2.21	0.40
2:PJ:8:ARG:HD2	2:Po:34:PHE:CE2	2.56	0.40
2:PK:124:THR:O	2:PK:125:LYS:HB3	2.21	0.40
2:Ph:57:LYS:HB3	2:Ph:57:LYS:HE2	1.72	0.40
2:Pi:120:ALA:HB2	2:RC:99:ILE:O	2.21	0.40
2:Pk:142:LEU:HD11	2:Pk:151:GLN:NE2	2.36	0.40
2:Pp:134:PRO:HB2	2:Pp:137:VAL:HG12	2.03	0.40
2:Pt:21:PHE:CG	2:RO:142:LEU:HD23	2.56	0.40
2:RK:23:VAL:HG13	2:RK:36:CYS:SG	2.61	0.40
2:RL:58:ILE:HD11	2:RM:6:VAL:HG21	2.03	0.40
2:RS:41:LEU:HD12	2:RS:41:LEU:HA	1.77	0.40
2:Rl:140:LEU:HD12	2:Rl:140:LEU:HA	1.71	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Rm:131:GLY:O	2:Rm:159:LEU:HA	2.20	0.40
2:Rp:1:MET:HB3	2:Rp:1:MET:HE2	1.56	0.40
1:K0:60:GLU:OE1	1:K0:347:ASN:HB3	2.21	0.40
1:K0:83:ALA:HB2	1:K0:358:ALA:HB2	2.03	0.40
1:K0:451:ASP:OD2	1:K0:470:LEU:HB3	2.21	0.40
1:K1:521:ALA:HA	1:K1:539:LYS:HD3	2.03	0.40
1:K1:536:TYR:HD1	1:K1:536:TYR:HA	1.71	0.40
1:K2:33:PHE:HA	1:K2:61:THR:CG2	2.51	0.40
1:K2:355:LEU:HA	1:K2:355:LEU:HD23	1.77	0.40
1:K2:642:PHE:CE1	1:K3:564:ILE:HD11	2.49	0.40
1:K6:93:SER:OG	1:K6:191:SER:HB2	2.22	0.40
1:K7:109:ASN:N	1:K7:109:ASN:OD1	2.54	0.40
1:K7:494:TYR:HE1	1:K7:536:TYR:HE1	1.69	0.40
1:K9:478:CYS:O	1:K9:555:ARG:NH1	2.47	0.40
1:L0:302:LYS:HA	1:L0:302:LYS:HD2	1.89	0.40
1:L1:129:GLY:HA2	1:L1:144:ASN:O	2.21	0.40
1:L1:198:ILE:HD12	1:L1:324:PHE:CE1	2.57	0.40
1:L2:470:LEU:HD12	1:L2:470:LEU:HA	1.78	0.40
1:L3:62:ALA:O	1:L3:66:MET:HB2	2.21	0.40
1:L3:135:ASP:N	1:L3:139:LYS:O	2.50	0.40
1:L3:653:GLU:H	1:L3:653:GLU:HG2	1.67	0.40
1:L4:12:GLU:OE2	1:LZ:561:LYS:NZ	2.26	0.40
1:L4:455:LYS:HD2	1:L4:457:GLN:HB2	2.01	0.40
1:L4:601:ILE:HG12	1:L4:629:ILE:HD12	2.03	0.40
1:L7:470:LEU:HD23	1:L7:525:VAL:HG21	2.03	0.40
1:L8:3:LEU:HD11	1:L8:9:GLU:HB2	2.03	0.40
1:LQ:33:PHE:O	1:LQ:82:ARG:NH2	2.53	0.40
1:LQ:35:TRP:NE1	1:LQ:226:TYR:HD2	2.19	0.40
1:LU:110:TYR:H	1:LU:138:GLY:HA3	1.86	0.40
1:LU:160:TYR:CE2	1:LU:161:PRO:HB3	2.56	0.40
1:LV:35:TRP:O	1:LV:54:PHE:HA	2.21	0.40
1:LW:298:LYS:NZ	1:LW:298:LYS:HB2	2.36	0.40
1:LW:303:ASP:CG	1:LW:304:ILE:N	2.78	0.40
1:LW:527:GLY:O	1:LW:528:THR:C	2.64	0.40
1:LZ:74:TYR:CD2	1:LZ:476:GLY:HA3	2.56	0.40
1:LZ:110:TYR:CD1	1:LZ:177:GLY:HA3	2.56	0.40
1:LZ:630:GLN:HA	1:LZ:631:PRO:HD3	1.91	0.40
1:La:296:SER:O	1:La:311:ILE:HG13	2.21	0.40
1:Lc:430:ARG:HD2	1:Lc:520:GLU:O	2.21	0.40
1:Ld:134:VAL:HG12	1:Ld:140:ILE:HG22	2.02	0.40
1:Ld:253:PRO:HG2	1:Ld:255:TYR:CE1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ld:423:VAL:O	1:Ld:427:VAL:HG23	2.21	0.40
1:Ld:654:LEU:HD13	1:Le:605:ARG:HD3	2.04	0.40
1:Le:85:ASP:C	1:Le:87:ASP:H	2.30	0.40
1:Lv:644:ALA:O	1:Lv:645:THR:OG1	2.39	0.40
1:Lx:494:TYR:OH	1:Lz:569:LYS:HD3	2.22	0.40
1:Lz:107:GLY:O	1:Lz:139:LYS:HD2	2.20	0.40
1:M2:30:ALA:HB3	1:M2:359:TRP:CE2	2.56	0.40
1:M3:33:PHE:HA	1:M3:61:THR:CG2	2.48	0.40
1:M3:460:LYS:HB2	1:M3:460:LYS:HE2	1.80	0.40
1:M3:572:LEU:HB3	1:M3:573:PHE:CD1	2.57	0.40
1:M3:612:ASN:OD1	1:M3:612:ASN:N	2.54	0.40
1:M4:251:LEU:HB3	1:M4:260:THR:HG21	2.02	0.40
1:M4:598:LEU:HD23	1:M4:598:LEU:HA	1.85	0.40
1:M4:614:THR:C	1:M4:616:SER:H	2.29	0.40
1:M5:202:GLU:H	1:M5:202:GLU:HG3	1.73	0.40
1:M5:269:PHE:CE2	1:M5:280:ALA:HB1	2.57	0.40
1:M5:456:TYR:CZ	1:M5:465:ASN:HB3	2.56	0.40
1:M6:33:PHE:HA	1:M6:61:THR:CG2	2.52	0.40
1:M7:246:LYS:HB2	1:M7:250:ALA:HB2	2.03	0.40
1:M7:653:GLU:H	1:M7:653:GLU:HG2	1.63	0.40
1:M9:159:GLU:HG3	1:M9:167:TRP:HE1	1.86	0.40
1:M9:455:LYS:HZ2	1:M9:457:GLN:HB2	1.86	0.40
1:MQ:163:LEU:HD12	1:MQ:186:LYS:HA	2.03	0.40
1:MR:152:ALA:O	1:MR:156:GLU:HG2	2.21	0.40
1:MR:368:VAL:HG12	1:MR:370:VAL:HG22	2.03	0.40
1:MR:459:ASP:OD2	1:MR:462:ASN:ND2	2.40	0.40
1:MR:482:ASP:OD2	1:MR:487:THR:HB	2.21	0.40
1:MU:247:GLY:HA2	1:MU:266:LYS:HG3	2.03	0.40
1:MU:450:ILE:HD13	1:MU:522:ILE:HG12	2.02	0.40
1:MU:638:ILE:HG12	1:MV:623:PHE:HB3	2.03	0.40
1:MW:33:PHE:HA	1:MW:61:THR:HG23	2.03	0.40
1:MW:49:ASP:N	1:MW:49:ASP:OD1	2.54	0.40
1:MY:470:LEU:HD23	1:MY:525:VAL:HG21	2.04	0.40
1:MZ:205:MET:HE2	1:MZ:205:MET:HB3	1.93	0.40
1:Ma:423:VAL:HG13	1:Ma:517:LEU:HD11	2.03	0.40
1:Mb:163:LEU:HB2	1:Mb:186:LYS:HA	2.02	0.40
1:Mb:554:ARG:HD3	1:Mb:554:ARG:O	2.22	0.40
1:Md:110:TYR:CD1	1:Md:177:GLY:HA3	2.55	0.40
1:Md:637:TYR:O	1:Me:622:GLU:HA	2.20	0.40
1:Md:654:LEU:HD23	1:Md:654:LEU:HA	1.55	0.40
1:Mv:119:LYS:HG2	1:Mv:124:ASP:CG	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mv:382:SER:OG	1:Mv:385:THR:HG22	2.21	0.40
1:Mv:601:ILE:HG21	1:Mv:629:ILE:HB	2.02	0.40
1:Mw:121:VAL:HG23	1:Mw:123:ASP:OD2	2.21	0.40
1:Mw:510:ARG:NH1	1:Mw:513:GLN:HE21	2.20	0.40
1:Mx:303:ASP:CG	1:Mx:304:ILE:N	2.80	0.40
1:Mx:368:VAL:O	1:Mx:400:ARG:NH2	2.54	0.40
1:Mx:527:GLY:O	1:Mx:528:THR:C	2.64	0.40
1:Mz:500:LEU:HD23	1:Mz:500:LEU:HA	1.90	0.40
1:NV:115:LYS:HE2	1:NV:127:THR:O	2.22	0.40
1:NV:303:ASP:CG	1:NV:304:ILE:N	2.80	0.40
1:NW:219:ILE:HD13	1:NW:219:ILE:H	1.85	0.40
1:Nd:518:TYR:HE1	1:Nd:537:GLY:HA3	1.86	0.40
1:Nd:650:ASP:C	1:Nd:652:ASP:H	2.29	0.40
1:Ne:26:THR:HA	1:Ne:77:ASP:O	2.20	0.40
1:Ne:498:GLN:HG2	1:Ne:534:VAL:HG12	2.04	0.40
1:Nf:429:TRP:CZ2	1:Nf:441:PHE:HB2	2.56	0.40
1:Nh:142:LYS:HE2	1:Nh:142:LYS:HB2	1.66	0.40
1:Nj:57:PRO:CB	1:Nj:62:ALA:HA	2.52	0.40
1:Nv:119:LYS:NZ	1:Nv:124:ASP:OD1	2.54	0.40
1:Nv:488:TRP:HE1	1:Nv:489:MET:HE2	1.85	0.40
1:Nw:107:GLY:O	1:Nw:139:LYS:HD3	2.22	0.40
1:Nw:413:THR:OG1	1:Nw:425:ASN:HB3	2.21	0.40
1:Nz:557:PHE:O	1:Nz:561:LYS:HG3	2.21	0.40
2:OK:80:ASP:O	2:OK:84:LYS:HG3	2.21	0.40
2:OK:116:TYR:CD1	2:OK:123:VAL:HG22	2.57	0.40
2:Ok:64:ARG:O	2:Ok:64:ARG:HG3	2.20	0.40
2:Ol:47:GLU:OE1	2:PH:148:ASN:ND2	2.38	0.40
2:Ol:115:GLN:NE2	2:PG:151:GLN:HE22	2.19	0.40
2:Om:124:THR:O	2:Om:125:LYS:HB3	2.21	0.40
2:Oo:64:ARG:HH12	2:PJ:94:GLY:C	2.30	0.40
2:Op:107:TYR:O	2:Op:133:TRP:HB3	2.21	0.40
2:PF:8:ARG:HD2	2:Pk:34:PHE:HE2	1.86	0.40
2:PI:131:GLY:O	2:PI:159:LEU:HA	2.22	0.40
2:PK:19:ASN:HD21	2:Pp:147:ASN:HA	1.87	0.40
2:PK:41:LEU:O	2:PK:42:PRO:C	2.64	0.40
2:PM:131:GLY:HA3	2:PM:160:ASP:HB2	2.03	0.40
2:Ph:104:PRO:HA	2:Ph:107:TYR:CZ	2.56	0.40
2:Pn:23:VAL:HG22	2:Pn:36:CYS:SG	2.61	0.40
2:Pn:73:VAL:HG12	2:Pn:74:MET:O	2.21	0.40
2:Pp:23:VAL:HG11	2:Pp:39:THR:HG21	2.03	0.40
2:Pr:64:ARG:HH12	2:RM:94:GLY:C	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:RD:38:ALA:HB3	2:RD:72:THR:HG23	2.04	0.40
2:RD:62:GLY:O	2:RE:118:ARG:NH2	2.51	0.40
2:RF:64:ARG:HG2	2:RF:64:ARG:HH11	1.86	0.40
2:RJ:56:ARG:HB3	2:RJ:56:ARG:NH1	2.35	0.40
2:RM:48:LYS:NZ	2:Rr:68:ASP:OD1	2.31	0.40
2:RS:56:ARG:H	2:RS:56:ARG:HG2	1.48	0.40
2:RT:125:LYS:HD3	2:RT:126:GLU:H	1.86	0.40
2:Rn:140:LEU:HD12	2:Rn:140:LEU:HA	1.78	0.40
1:K0:604:TYR:HA	1:K0:628:TYR:O	2.20	0.40
1:K2:605:ARG:HB3	1:K2:605:ARG:NH1	2.33	0.40
1:K3:143:ILE:HD12	1:K3:145:ILE:HD11	2.03	0.40
1:K3:352:ALA:O	1:K3:356:MET:HG3	2.22	0.40
1:K4:107:GLY:HA3	1:K4:110:TYR:HE2	1.86	0.40
1:K5:139:LYS:HA	1:K5:139:LYS:HD2	1.98	0.40
1:K6:547:PRO:HG3	1:La:305:TYR:HE1	1.86	0.40
1:K8:202:GLU:OE1	1:K8:203:ALA:N	2.54	0.40
1:K8:478:CYS:HB3	1:K8:555:ARG:CZ	2.52	0.40
1:K9:538:ASP:O	1:K9:551:ILE:HG13	2.21	0.40
1:L0:39:PHE:CE1	1:L0:83:ALA:HA	2.56	0.40
1:L1:198:ILE:HG23	1:L1:324:PHE:HE1	1.86	0.40
1:L1:278:GLN:HG2	1:L1:296:SER:HB2	2.02	0.40
1:L2:57:PRO:HG2	1:L2:459:ASP:OD2	2.21	0.40
1:L2:511:GLN:NE2	1:MW:3:LEU:HD22	2.36	0.40
1:L3:620:ARG:HB2	1:L3:622:GLU:HG3	2.03	0.40
1:L4:243:ASP:OD1	1:L4:335:SER:OG	2.35	0.40
1:L4:526:THR:HG22	1:L4:534:VAL:HG22	2.03	0.40
1:L5:399:VAL:O	1:L5:401:GLN:HG3	2.21	0.40
1:L6:642:PHE:CE2	1:L7:561:LYS:HG2	2.56	0.40
1:L7:160:TYR:HA	1:L7:161:PRO:HA	1.85	0.40
1:L8:383:LEU:HD22	1:L8:439:ASN:HB3	2.03	0.40
1:L8:642:PHE:HE2	1:L9:564:ILE:HD11	1.85	0.40
1:L9:91:ASN:ND2	1:L9:195:LEU:HG	2.36	0.40
1:LQ:115:LYS:HE2	1:LQ:127:THR:O	2.22	0.40
1:LQ:159:GLU:O	1:LQ:162:THR:N	2.46	0.40
1:LR:430:ARG:HB2	1:LR:522:ILE:HD11	2.03	0.40
1:LR:505:LEU:HA	1:LR:505:LEU:HD12	1.86	0.40
1:LS:119:LYS:HA	1:LS:123:ASP:O	2.21	0.40
1:LS:389:VAL:O	1:LS:393:VAL:HG23	2.22	0.40
1:LS:550:ARG:HB3	1:LS:553:VAL:HG12	2.04	0.40
1:LV:225:LEU:HD12	1:LV:324:PHE:HB2	2.02	0.40
1:LV:246:LYS:HB2	1:LV:250:ALA:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LV:383:LEU:HG	1:LV:412:GLU:OE2	2.21	0.40
1:LW:33:PHE:HA	1:LW:61:THR:HG23	2.03	0.40
1:LX:94:PRO:HD3	1:LX:222:VAL:O	2.22	0.40
1:LY:35:TRP:O	1:LY:54:PHE:HA	2.22	0.40
1:LY:299:ARG:H	1:LY:299:ARG:HD2	1.86	0.40
1:LY:554:ARG:HD3	1:LY:554:ARG:O	2.21	0.40
1:LY:633:ARG:HD2	1:LY:633:ARG:HA	2.00	0.40
1:La:151:ILE:O	1:La:155:LYS:HG2	2.21	0.40
1:La:352:ALA:O	1:La:356:MET:HG3	2.20	0.40
1:Lb:470:LEU:O	1:Lb:474:ILE:HG23	2.21	0.40
1:Lc:311:ILE:O	1:Lc:315:PHE:HD1	2.03	0.40
1:Lc:470:LEU:HD23	1:Lc:525:VAL:HG21	2.03	0.40
1:Lc:536:TYR:HD1	1:Lc:536:TYR:HA	1.73	0.40
1:Ld:381:GLU:HB3	1:Ld:385:THR:HG23	2.04	0.40
1:Ld:527:GLY:O	1:Ld:528:THR:C	2.65	0.40
1:Le:291:GLN:NE2	1:Le:320:SER:OG	2.35	0.40
1:Lv:607:VAL:HB	1:Lv:626:THR:OG1	2.22	0.40
1:M0:154:ALA:HA	1:M0:157:VAL:HG22	2.03	0.40
1:M1:109:ASN:N	1:M1:109:ASN:OD1	2.54	0.40
1:M1:473:ASP:HB3	1:M1:499:ILE:HG23	2.03	0.40
1:M1:557:PHE:HZ	1:Mz:644:ALA:HA	1.86	0.40
1:M4:105:THR:O	1:M4:180:ALA:HA	2.21	0.40
1:M4:494:TYR:HE2	1:M4:528:THR:HG21	1.86	0.40
1:M5:502:VAL:HG11	1:M5:505:LEU:HD13	2.03	0.40
1:M5:650:ASP:C	1:M5:652:ASP:N	2.78	0.40
1:M8:69:MET:O	1:M8:73:GLN:HG2	2.22	0.40
1:M8:355:LEU:HA	1:M8:355:LEU:HD23	1.85	0.40
1:MQ:202:GLU:H	1:MQ:202:GLU:HG3	1.62	0.40
1:MU:438:ASP:OD1	1:MU:438:ASP:N	2.52	0.40
1:MV:70:ASN:HD21	1:MV:468:VAL:HG11	1.87	0.40
1:MV:193:ILE:HD11	1:MV:204:ALA:HB1	2.04	0.40
1:MV:601:ILE:HG22	1:MV:629:ILE:HD13	2.04	0.40
1:MW:43:GLN:HG3	1:MW:77:ASP:OD1	2.21	0.40
1:MW:564:ILE:HD13	1:MW:564:ILE:HG21	1.87	0.40
1:MW:654:LEU:HD13	1:MX:605:ARG:HD3	2.03	0.40
1:MX:119:LYS:NZ	1:MX:124:ASP:OD1	2.50	0.40
1:MX:130:LYS:HE2	1:MX:130:LYS:HB2	1.83	0.40
1:MX:346:SER:O	1:MX:350:VAL:HG23	2.21	0.40
1:MX:379:ALA:HB2	1:MX:454:TYR:CE2	2.56	0.40
1:MX:406:LEU:HD13	1:MX:475:ALA:HB2	2.03	0.40
1:Ma:37:PRO:HG3	1:Ma:226:TYR:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mb:116:ILE:HG12	1:Mb:130:LYS:HA	2.03	0.40
1:Mb:116:ILE:HD11	1:Mb:131:ILE:HG13	2.02	0.40
1:Mc:269:PHE:CE1	1:Mc:280:ALA:HB1	2.56	0.40
1:Md:401:GLN:O	1:Md:561:LYS:HE3	2.21	0.40
1:Md:527:GLY:O	1:Md:528:THR:C	2.64	0.40
1:Md:603:GLU:H	1:Md:630:GLN:HB3	1.85	0.40
1:Mv:221:GLY:O	1:Mv:325:ALA:HA	2.22	0.40
1:Mx:450:ILE:HD13	1:Mx:522:ILE:HG12	2.03	0.40
1:Mx:572:LEU:HD12	1:Mx:572:LEU:HA	1.72	0.40
1:Mz:332:GLU:OE1	1:Mz:332:GLU:N	2.49	0.40
1:Mz:650:ASP:C	1:Mz:652:ASP:H	2.27	0.40
1:NV:202:GLU:H	1:NV:202:GLU:HG3	1.63	0.40
1:NX:137:ASP:OD1	1:NX:138:GLY:N	2.54	0.40
1:NX:239:VAL:HG22	1:NX:280:ALA:HB3	2.02	0.40
1:NX:490:SER:OG	1:NX:538:ASP:OD2	2.30	0.40
1:NX:571:ARG:NH1	1:NX:583:SER:OG	2.55	0.40
1:NZ:278:GLN:HA	1:NZ:295:LEU:O	2.21	0.40
1:NZ:518:TYR:CE2	1:NZ:539:LYS:HD2	2.57	0.40
1:NZ:605:ARG:HB3	1:NZ:605:ARG:HH11	1.86	0.40
1:Na:645:THR:O	1:Nb:630:GLN:HG3	2.21	0.40
1:Nb:115:LYS:HD2	1:Nb:115:LYS:HA	1.92	0.40
1:Nb:151:ILE:O	1:Nb:155:LYS:HG2	2.21	0.40
1:Nb:614:THR:C	1:Nb:616:SER:H	2.29	0.40
1:Nc:34:GLN:NE2	1:Nc:56:GLN:H	2.18	0.40
1:Nd:92:SER:HB3	1:Nd:340:LEU:HB3	2.04	0.40
1:Ne:57:PRO:HG3	1:Ne:65:PHE:CD1	2.55	0.40
1:Nf:651:PHE:CD2	1:Nf:654:LEU:HD12	2.56	0.40
1:Ng:31:GLY:HA3	1:Ng:64:TYR:CE2	2.56	0.40
1:Ng:176:SER:O	1:Ng:176:SER:OG	2.30	0.40
1:Ng:470:LEU:HD12	1:Ng:470:LEU:HA	1.80	0.40
1:Nh:368:VAL:HG12	1:Nh:370:VAL:HG22	2.04	0.40
1:Nh:470:LEU:HD21	1:Nh:525:VAL:HG11	2.04	0.40
1:Ni:74:TYR:CD2	1:Ni:476:GLY:HA3	2.56	0.40
1:Ni:576:ASN:ND2	1:Ni:622:GLU:O	2.54	0.40
1:Nj:4:LEU:HD23	1:Nj:4:LEU:HA	1.85	0.40
1:Nv:418:PRO:HD2	1:Nv:421:ARG:NH2	2.37	0.40
1:Nw:220:PRO:HD2	1:Nw:338:LEU:HD21	2.02	0.40
2:OC:41:LEU:HD13	2:Oh:142:LEU:HD22	2.03	0.40
2:OD:40:ALA:O	2:OD:69:TRP:NE1	2.54	0.40
2:OK:41:LEU:HD13	2:Op:142:LEU:HD22	2.03	0.40
2:OK:131:GLY:O	2:OK:159:LEU:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OO:93:ALA:HB1	2:Rt:64:ARG:HB2	2.02	0.40
2:OO:104:PRO:HA	2:OO:107:TYR:CE2	2.56	0.40
2:Oi:136:ASN:O	2:Oi:136:ASN:ND2	2.54	0.40
2:Oj:53:PHE:HD1	2:Oj:53:PHE:HA	1.79	0.40
2:Oj:70:THR:HG22	2:Oj:156:THR:HG22	2.03	0.40
2:Os:20:LEU:HD13	2:Os:118:ARG:HA	2.03	0.40
2:PE:1:MET:HB2	2:PE:1:MET:HE3	1.67	0.40
2:PE:63:ASP:OD2	2:Pk:147:ASN:ND2	2.54	0.40
2:PG:64:ARG:NH1	2:Pl:95:GLN:HG3	2.37	0.40
2:PI:134:PRO:HA	2:PI:157:LEU:HA	2.03	0.40
2:PL:52:GLY:HA2	2:PL:57:LYS:HB3	2.03	0.40
2:PM:83:GLN:HA	2:PM:86:VAL:HG22	2.01	0.40
2:Pi:56:ARG:HH12	2:RD:66:PHE:HE1	1.70	0.40
2:Pi:124:THR:HB	2:RD:78:ALA:HA	2.04	0.40
2:Pj:117:ALA:HB2	2:Pj:124:THR:HG23	2.04	0.40
2:Pl:52:GLY:HA2	2:Pl:57:LYS:HB3	2.02	0.40
2:Pn:140:LEU:HD12	2:Pn:140:LEU:HA	1.90	0.40
2:Pp:56:ARG:HH12	2:RK:66:PHE:HE2	1.70	0.40
2:Pq:124:THR:O	2:Pq:124:THR:OG1	2.40	0.40
2:Pr:64:ARG:HD2	2:Pr:66:PHE:CZ	2.56	0.40
2:Pr:83:GLN:HA	2:Pr:86:VAL:HG22	2.03	0.40
2:Pr:113:VAL:HG13	2:Pr:127:ILE:HG12	2.03	0.40
2:RG:41:LEU:HB2	2:Rl:140:LEU:HB3	2.02	0.40
2:RH:62:GLY:O	2:RI:118:ARG:NH2	2.53	0.40
2:RK:16:ALA:C	2:RK:17:ARG:HG2	2.44	0.40
2:RN:1:MET:HB2	2:RN:1:MET:HE3	1.46	0.40
2:Rl:107:TYR:O	2:Rl:133:TRP:HB3	2.21	0.40
2:Rm:16:ALA:O	2:Rm:17:ARG:HD3	2.22	0.40
2:Ro:70:THR:HG22	2:Ro:156:THR:HG22	2.02	0.40
2:Rp:52:GLY:HA2	2:Rp:57:LYS:HB3	2.03	0.40
2:Rt:80:ASP:O	2:Rt:84:LYS:HG3	2.22	0.40
1:K1:455:LYS:CD	1:K1:502:VAL:HG22	2.51	0.40
1:K2:538:ASP:N	1:K2:538:ASP:OD1	2.53	0.40
1:K4:209:ASP:OD1	1:K4:210:PHE:N	2.55	0.40
1:K5:505:LEU:HD12	1:K5:505:LEU:HA	1.85	0.40
1:K6:91:ASN:OD1	1:K6:91:ASN:N	2.52	0.40
1:L0:119:LYS:NZ	1:L0:124:ASP:OD1	2.54	0.40
1:L0:550:ARG:HB3	1:L0:553:VAL:HG12	2.02	0.40
1:L3:66:MET:HG2	1:L3:468:VAL:HG11	2.03	0.40
1:L4:135:ASP:HB3	1:L4:139:LYS:HB2	2.02	0.40
1:L6:153:LYS:HD3	1:L6:156:GLU:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L6:612:ASN:HB3	1:L6:624:VAL:HG23	2.03	0.40
1:L6:642:PHE:CZ	1:L7:564:ILE:HD11	2.56	0.40
1:L8:535:LEU:HD22	1:L8:537:GLY:O	2.21	0.40
1:L8:605:ARG:HH11	1:L8:605:ARG:HB3	1.86	0.40
1:L9:100:GLU:HB3	1:L9:188:ILE:HD11	2.02	0.40
1:L9:216:LYS:HD3	1:L9:217:TYR:CE1	2.56	0.40
1:LQ:114:ASP:N	1:LQ:114:ASP:OD1	2.54	0.40
1:LQ:116:ILE:HD11	1:LQ:131:ILE:HG13	2.03	0.40
1:LQ:315:PHE:CE2	1:LQ:325:ALA:HB3	2.56	0.40
1:LR:11:LYS:O	1:Nw:641:ASN:HA	2.21	0.40
1:LS:149:LYS:H	1:LS:149:LYS:HG2	1.72	0.40
1:LS:299:ARG:H	1:LS:299:ARG:HG2	1.64	0.40
1:LU:456:TYR:HD1	1:LU:456:TYR:HA	1.74	0.40
1:LY:119:LYS:HG2	1:LY:124:ASP:OD1	2.22	0.40
1:LY:131:ILE:HD11	1:LY:171:ILE:HD13	2.04	0.40
1:LY:478:CYS:O	1:LY:555:ARG:NH1	2.50	0.40
1:LY:494:TYR:OH	1:LZ:569:LYS:NZ	2.52	0.40
1:LZ:373:PHE:HB2	1:LZ:405:VAL:HG22	2.02	0.40
1:La:99:ILE:HG12	1:La:99:ILE:O	2.21	0.40
1:Lc:66:MET:HG2	1:Lc:468:VAL:HG21	2.04	0.40
1:Lc:205:MET:SD	1:Lc:324:PHE:HD2	2.44	0.40
1:Lc:456:TYR:HD1	1:Lc:456:TYR:HA	1.77	0.40
1:Ld:382:SER:OG	1:Ld:385:THR:HG22	2.21	0.40
1:Le:11:LYS:HE2	1:Le:11:LYS:HB3	1.73	0.40
1:Le:163:LEU:HD12	1:Le:186:LYS:HA	2.03	0.40
1:Le:283:VAL:O	1:Le:290:VAL:HG12	2.21	0.40
1:Lv:303:ASP:CG	1:Lv:304:ILE:N	2.79	0.40
1:Lw:82:ARG:NH2	1:Lw:227:PRO:O	2.55	0.40
1:Lw:426:LEU:HD23	1:Lw:426:LEU:HA	1.67	0.40
1:Lx:119:LYS:NZ	1:Lx:122:SER:HA	2.36	0.40
1:Lz:69:MET:O	1:Lz:73:GLN:HG2	2.21	0.40
1:M1:620:ARG:HB2	1:M1:622:GLU:HG3	2.03	0.40
1:M2:205:MET:HE2	1:M2:205:MET:HB3	1.80	0.40
1:M3:135:ASP:OD1	1:M3:136:ALA:N	2.55	0.40
1:M3:480:ARG:O	1:M3:484:VAL:HG12	2.21	0.40
1:M3:638:ILE:HG23	1:M4:623:PHE:HD2	1.86	0.40
1:M4:406:LEU:HA	1:M4:449:ALA:O	2.21	0.40
1:M5:284:ARG:HE	1:M5:289:ILE:CD1	2.34	0.40
1:M5:440:ASN:HD22	1:M5:442:ASN:HB2	1.86	0.40
1:M6:470:LEU:HD23	1:M6:525:VAL:HG21	2.04	0.40
1:M7:153:LYS:HD2	1:M7:153:LYS:HA	1.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M8:222:VAL:HG22	1:M8:325:ALA:HB2	2.03	0.40
1:M9:209:ASP:OD1	1:M9:210:PHE:N	2.53	0.40
1:M9:598:LEU:HD23	1:M9:598:LEU:HA	1.70	0.40
1:MQ:273:PRO:HB3	1:MQ:278:GLN:CB	2.51	0.40
1:MR:57:PRO:HG2	1:MR:462:ASN:HD21	1.87	0.40
1:MR:252:LEU:C	1:MR:260:THR:HG23	2.47	0.40
1:MR:494:TYR:CE2	1:MR:528:THR:HG21	2.56	0.40
1:MS:571:ARG:NH2	1:MS:587:GLU:OE1	2.40	0.40
1:MU:210:PHE:CE2	1:MU:214:LEU:HD11	2.57	0.40
1:MU:538:ASP:O	1:MU:550:ARG:HA	2.22	0.40
1:MW:220:PRO:HG2	1:MW:338:LEU:HD11	2.03	0.40
1:MW:303:ASP:CG	1:MW:304:ILE:N	2.79	0.40
1:MZ:40:GLN:H	1:MZ:81:VAL:HG23	1.86	0.40
1:MZ:236:ILE:HG22	1:MZ:238:ILE:HG13	2.03	0.40
1:MZ:462:ASN:O	1:MZ:464:VAL:HG13	2.20	0.40
1:Mb:282:ILE:HG23	1:Mb:289:ILE:HG23	2.04	0.40
1:Mc:480:ARG:O	1:Mc:482:ASP:N	2.50	0.40
1:Md:100:GLU:OE2	1:Md:186:LYS:N	2.42	0.40
1:Md:110:TYR:H	1:Md:138:GLY:CA	2.34	0.40
1:Me:235:GLU:OE2	1:Me:261:ARG:NH2	2.55	0.40
1:Me:378:CYS:HB2	1:Me:386:ALA:HB1	2.03	0.40
1:Mw:332:GLU:CD	1:Mw:332:GLU:H	2.30	0.40
1:Mx:219:ILE:HD13	1:Mx:219:ILE:H	1.86	0.40
1:Mz:76:ASN:O	1:Mz:76:ASN:ND2	2.39	0.40
1:NV:35:TRP:NE1	1:NV:226:TYR:HD2	2.20	0.40
1:NV:57:PRO:HB3	1:NV:65:PHE:HB3	2.04	0.40
1:NV:315:PHE:CE2	1:NV:325:ALA:HB3	2.57	0.40
1:NW:346:SER:O	1:NW:350:VAL:HG23	2.20	0.40
1:NW:383:LEU:HD11	1:NW:436:TYR:CE2	2.57	0.40
1:NZ:219:ILE:HD13	1:NZ:219:ILE:H	1.86	0.40
1:NZ:423:VAL:HG21	1:NZ:513:GLN:HB3	2.04	0.40
1:Na:654:LEU:HA	1:Na:654:LEU:HD23	1.80	0.40
1:Nb:455:LYS:CD	1:Nb:502:VAL:HG22	2.50	0.40
1:Nc:162:THR:HA	1:Nc:186:LYS:HB2	2.02	0.40
1:Nd:106:PRO:HB2	1:Nd:139:LYS:HZ3	1.86	0.40
1:Ne:480:ARG:O	1:Ne:482:ASP:N	2.51	0.40
1:Ne:572:LEU:O	1:Ne:574:GLU:HB2	2.22	0.40
1:Nf:107:GLY:HA2	1:Nf:179:ALA:O	2.21	0.40
1:Ng:35:TRP:O	1:Ng:54:PHE:HA	2.21	0.40
1:Ng:74:TYR:CD1	1:Ng:476:GLY:HA3	2.56	0.40
1:Ng:538:ASP:O	1:Ng:551:ILE:HG13	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nh:378:CYS:SG	1:Nh:408:SER:HB3	2.62	0.40
1:Nh:499:ILE:H	1:Nh:499:ILE:HG12	1.77	0.40
1:Ni:246:LYS:HZ2	1:Ni:246:LYS:HG3	1.71	0.40
1:Nw:614:THR:C	1:Nw:616:SER:H	2.29	0.40
1:Nz:222:VAL:HG22	1:Nz:325:ALA:HB2	2.03	0.40
2:OC:8:ARG:HD2	2:Oh:34:PHE:CE2	2.56	0.40
2:OD:17:ARG:HA	2:OD:17:ARG:HD3	1.84	0.40
2:OG:83:GLN:HA	2:OG:86:VAL:HG22	2.03	0.40
2:OG:125:LYS:HG2	2:Ol:79:HIS:ND1	2.37	0.40
2:OH:114:ARG:HG2	2:OH:126:GLU:HG3	2.03	0.40
2:Oi:91:ILE:HG22	2:Oi:107:TYR:HB3	2.02	0.40
2:Ok:103:LYS:O	2:Ok:106:GLU:HG2	2.21	0.40
2:Oq:25:ILE:O	2:Oq:27:TYR:N	2.54	0.40
2:Or:45:ILE:HA	2:PM:135:THR:O	2.21	0.40
2:PF:80:ASP:O	2:PF:84:LYS:HG3	2.21	0.40
2:PI:23:VAL:HG13	2:PI:36:CYS:SG	2.61	0.40
2:PN:115:GLN:HE21	2:Ps:151:GLN:HE22	1.68	0.40
2:PO:27:TYR:CE1	2:PO:109:LYS:HE2	2.57	0.40
2:Pj:17:ARG:HA	2:Pj:17:ARG:HD3	1.89	0.40
2:Pk:125:LYS:HD3	2:Pk:126:GLU:H	1.87	0.40
2:Pp:41:LEU:O	2:Pp:42:PRO:C	2.64	0.40
2:RG:56:ARG:HH11	2:RG:56:ARG:HB3	1.86	0.40
2:RJ:118:ARG:HA	2:RJ:118:ARG:HD2	1.79	0.40
2:RL:115:GLN:HG3	2:Rq:79:HIS:NE2	2.37	0.40
2:Rm:69:TRP:HB2	2:Rm:159:LEU:HD23	2.03	0.40
2:Rs:82:ARG:HG3	2:Rs:153:PHE:CE2	2.57	0.40
2:Rt:58:ILE:HD13	2:Rt:58:ILE:H	1.87	0.40
1:K0:41:ILE:HD11	1:K0:361:PHE:HB3	2.03	0.40
1:K3:559:MET:HE2	1:K3:559:MET:HB2	1.97	0.40
1:K4:8:ILE:HD11	1:Ne:569:LYS:HB3	2.03	0.40
1:K4:202:GLU:H	1:K4:202:GLU:HG3	1.54	0.40
1:K4:455:LYS:NZ	1:K4:457:GLN:HB2	2.36	0.40
1:K5:389:VAL:O	1:K5:393:VAL:HG23	2.22	0.40
1:K7:107:GLY:HA3	1:K7:180:ALA:HB2	2.02	0.40
1:K7:284:ARG:HG2	1:K7:289:ILE:HD13	2.04	0.40
1:K7:451:ASP:OD2	1:K7:470:LEU:HB3	2.20	0.40
1:K7:633:ARG:HD2	1:K7:633:ARG:HA	1.92	0.40
1:K8:641:ASN:HA	1:Lc:11:LYS:O	2.22	0.40
1:K9:115:LYS:HD2	1:K9:115:LYS:HA	1.84	0.40
1:K9:251:LEU:H	1:K9:251:LEU:HG	1.75	0.40
1:L0:44:VAL:HG11	1:L0:50:LEU:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L3:46:ASN:OD1	1:L3:47:GLU:N	2.55	0.40
1:L3:360:ASP:OD1	1:L3:396:ILE:HD11	2.21	0.40
1:L7:42:LYS:HE3	1:L7:42:LYS:HB3	1.87	0.40
1:L8:64:TYR:OH	1:L8:381:GLU:OE2	2.36	0.40
1:L8:252:LEU:HD11	1:L8:263:SER:HB2	2.03	0.40
1:L8:391:LYS:NZ	1:L8:440:ASN:O	2.54	0.40
1:L8:430:ARG:HD3	1:L8:430:ARG:O	2.21	0.40
1:L8:527:GLY:O	1:L8:528:THR:C	2.65	0.40
1:L9:28:ALA:HB2	1:L9:370:VAL:HG21	2.04	0.40
1:L9:406:LEU:HB3	1:L9:474:ILE:HD11	2.03	0.40
1:LQ:209:ASP:OD1	1:LQ:210:PHE:N	2.54	0.40
1:LS:100:GLU:OE2	1:LS:186:LYS:NZ	2.36	0.40
1:LS:379:ALA:O	1:LS:381:GLU:N	2.50	0.40
1:LW:29:LEU:O	1:LW:80:VAL:HA	2.21	0.40
1:LW:90:LYS:NZ	1:LW:190:ASP:OD1	2.38	0.40
1:LW:453:ASN:HB2	1:LW:506:ALA:HB3	2.03	0.40
1:LX:383:LEU:HD11	1:LX:436:TYR:CE2	2.57	0.40
1:LZ:653:GLU:H	1:LZ:653:GLU:HG2	1.70	0.40
1:La:57:PRO:HB3	1:La:65:PHE:HB3	2.03	0.40
1:La:184:LEU:HD23	1:La:184:LEU:HA	1.82	0.40
1:La:467:TRP:CZ3	1:Lb:199:GLU:HB2	2.56	0.40
1:La:557:PHE:O	1:La:561:LYS:HG3	2.22	0.40
1:Lc:378:CYS:SG	1:Lc:469:PRO:HB3	2.61	0.40
1:Ld:210:PHE:O	1:Ld:214:LEU:HG	2.21	0.40
1:Lv:351:THR:HG23	1:Lv:353:GLY:N	2.35	0.40
1:Lw:29:LEU:O	1:Lw:80:VAL:HA	2.22	0.40
1:Lx:89:ALA:HA	1:Lx:344:LEU:O	2.22	0.40
1:M0:84:VAL:HA	1:M0:346:SER:OG	2.22	0.40
1:M3:210:PHE:CE2	1:M3:214:LEU:HD11	2.56	0.40
1:M3:228:GLY:HA2	1:M3:345:SER:HB3	2.04	0.40
1:M3:373:PHE:HB2	1:M3:405:VAL:HG22	2.03	0.40
1:M4:115:LYS:HD2	1:M4:115:LYS:HA	1.97	0.40
1:M5:362:PHE:O	1:M5:400:ARG:NE	2.53	0.40
1:M5:376:GLY:HA3	1:M5:471:ALA:HB3	2.03	0.40
1:M7:134:VAL:HG12	1:M7:140:ILE:HA	2.04	0.40
1:M7:293:VAL:HG22	1:M7:294:VAL:H	1.87	0.40
1:M8:11:LYS:O	1:Mc:641:ASN:HA	2.22	0.40
1:M8:137:ASP:OD1	1:M8:137:ASP:N	2.53	0.40
1:MR:219:ILE:H	1:MR:219:ILE:HD13	1.87	0.40
1:MW:613:ASN:HD22	1:MW:613:ASN:N	2.19	0.40
1:MX:57:PRO:HG3	1:MX:65:PHE:CD1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MY:89:ALA:HA	1:MY:345:SER:O	2.21	0.40
1:MZ:495:ASN:OD1	1:MZ:495:ASN:N	2.53	0.40
1:Ma:110:TYR:CE2	1:Ma:180:ALA:HB2	2.57	0.40
1:Mb:379:ALA:HA	1:Mb:411:ARG:HB2	2.04	0.40
1:Md:536:TYR:HD1	1:Md:536:TYR:HA	1.67	0.40
1:Me:614:THR:O	1:Me:617:VAL:HG12	2.21	0.40
1:Mv:57:PRO:HG3	1:Mv:65:PHE:HB3	2.04	0.40
1:Mw:244:TYR:HD1	1:Mw:265:ALA:HB1	1.87	0.40
1:Mw:423:VAL:O	1:Mw:427:VAL:HG23	2.22	0.40
1:Mz:103:ILE:HD13	1:Mz:182:ILE:HG22	2.03	0.40
1:NV:108:SER:O	1:NV:178:LEU:HD23	2.22	0.40
1:NZ:2:THR:OG1	1:NZ:3:LEU:N	2.55	0.40
1:NZ:131:ILE:HD13	1:NZ:140:ILE:HG21	2.03	0.40
1:NZ:488:TRP:HB3	1:NZ:556:LEU:HB2	2.04	0.40
1:NZ:612:ASN:HB3	1:NZ:624:VAL:CG2	2.51	0.40
1:Na:518:TYR:CE2	1:Na:539:LYS:HD2	2.56	0.40
1:Na:590:GLN:NE2	2:RF:108:LYS:O	2.51	0.40
1:Ne:256:PRO:HG2	1:Ne:339:THR:H	1.86	0.40
1:Nf:198:ILE:HG23	1:Nf:324:PHE:HE2	1.86	0.40
1:Nf:451:ASP:CG	1:Nf:452:GLY:H	2.29	0.40
1:Nf:642:PHE:CE2	1:Ng:561:LYS:HG2	2.56	0.40
1:Ng:198:ILE:HG13	1:Ng:225:LEU:HD11	2.03	0.40
1:Ng:654:LEU:HD23	1:Ng:654:LEU:HA	1.87	0.40
1:Nh:94:PRO:HD3	1:Nh:222:VAL:O	2.21	0.40
1:Nh:104:SER:OG	1:Nh:183:THR:OG1	2.34	0.40
1:Ni:273:PRO:HB3	1:Ni:278:GLN:HB2	2.02	0.40
1:Ni:302:LYS:HD3	1:Ni:302:LYS:HA	1.78	0.40
1:Ni:512:ALA:O	1:Ni:516:ARG:HG3	2.22	0.40
1:Nj:28:ALA:HB2	1:Nj:370:VAL:HG21	2.02	0.40
1:Nj:229:GLU:OE2	1:Nj:345:SER:OG	2.34	0.40
1:Nw:598:LEU:HD22	2:RD:11:GLU:OE1	2.22	0.40
1:Nz:608:CYS:HA	1:Nz:612:ASN:HD22	1.86	0.40
2:OF:34:PHE:CE2	2:Rk:8:ARG:HD2	2.57	0.40
2:OJ:2:PHE:HD1	2:PI:97:ASN:HB3	1.86	0.40
2:OL:1:MET:HE2	2:OL:1:MET:HB3	1.84	0.40
2:OL:19:ASN:O	2:OL:20:LEU:HB2	2.20	0.40
2:OM:41:LEU:HB2	2:Or:140:LEU:HB3	2.03	0.40
2:Ok:8:ARG:HD2	2:PF:34:PHE:CE2	2.56	0.40
2:Ok:113:VAL:HG13	2:Ok:127:ILE:HG12	2.02	0.40
2:Ot:85:PHE:CE1	2:Ot:155:VAL:HG11	2.55	0.40
2:PG:27:TYR:CE1	2:PG:109:LYS:HE2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PG:140:LEU:HA	2:PG:140:LEU:HD12	1.69	0.40
2:PL:140:LEU:HD12	2:PL:140:LEU:HA	1.75	0.40
2:PN:38:ALA:HB3	2:PN:72:THR:HG23	2.03	0.40
2:PO:104:PRO:HA	2:PO:107:TYR:CE2	2.57	0.40
2:Po:90:SER:HA	2:Po:94:GLY:H	1.85	0.40
2:Pp:32:PHE:HA	2:Pp:35:GLN:HG3	2.04	0.40
2:Pq:146:SER:O	2:Pq:146:SER:OG	2.34	0.40
2:RC:132:LEU:HD12	2:RC:158:ALA:O	2.20	0.40
2:RE:73:VAL:HG12	2:RE:74:MET:O	2.22	0.40
2:RK:107:TYR:CD1	2:RK:107:TYR:C	2.99	0.40
2:RN:150:ILE:HG12	2:RN:151:GLN:N	2.37	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	K0	653/659 (99%)	570 (87%)	78 (12%)	5 (1%)	16	44
1	K1	653/659 (99%)	563 (86%)	85 (13%)	5 (1%)	16	44
1	K2	653/659 (99%)	569 (87%)	80 (12%)	4 (1%)	21	50
1	K3	653/659 (99%)	577 (88%)	72 (11%)	4 (1%)	21	50
1	K4	653/659 (99%)	577 (88%)	71 (11%)	5 (1%)	16	44
1	K5	653/659 (99%)	569 (87%)	80 (12%)	4 (1%)	21	50
1	K6	653/659 (99%)	566 (87%)	84 (13%)	3 (0%)	24	54
1	K7	653/659 (99%)	568 (87%)	82 (13%)	3 (0%)	24	54
1	K8	653/659 (99%)	578 (88%)	72 (11%)	3 (0%)	24	54
1	K9	653/659 (99%)	561 (86%)	87 (13%)	5 (1%)	16	44
1	L0	653/659 (99%)	572 (88%)	78 (12%)	3 (0%)	24	54

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	L1	653/659 (99%)	567 (87%)	80 (12%)	6 (1%)	14	42
1	L2	653/659 (99%)	565 (86%)	82 (13%)	6 (1%)	14	42
1	L3	653/659 (99%)	574 (88%)	75 (12%)	4 (1%)	21	50
1	L4	653/659 (99%)	576 (88%)	74 (11%)	3 (0%)	24	54
1	L5	653/659 (99%)	563 (86%)	86 (13%)	4 (1%)	21	50
1	L6	653/659 (99%)	564 (86%)	86 (13%)	3 (0%)	24	54
1	L7	653/659 (99%)	564 (86%)	85 (13%)	4 (1%)	21	50
1	L8	653/659 (99%)	571 (87%)	78 (12%)	4 (1%)	21	50
1	L9	653/659 (99%)	571 (87%)	79 (12%)	3 (0%)	24	54
1	LQ	653/659 (99%)	581 (89%)	69 (11%)	3 (0%)	24	54
1	LR	653/659 (99%)	566 (87%)	84 (13%)	3 (0%)	24	54
1	LS	653/659 (99%)	566 (87%)	83 (13%)	4 (1%)	21	50
1	LU	653/659 (99%)	570 (87%)	77 (12%)	6 (1%)	14	42
1	LV	653/659 (99%)	576 (88%)	72 (11%)	5 (1%)	16	44
1	LW	653/659 (99%)	562 (86%)	87 (13%)	4 (1%)	21	50
1	LX	653/659 (99%)	573 (88%)	77 (12%)	3 (0%)	24	54
1	LY	653/659 (99%)	562 (86%)	88 (14%)	3 (0%)	24	54
1	LZ	653/659 (99%)	568 (87%)	81 (12%)	4 (1%)	21	50
1	La	653/659 (99%)	564 (86%)	84 (13%)	5 (1%)	16	44
1	Lb	653/659 (99%)	573 (88%)	76 (12%)	4 (1%)	21	50
1	Lc	653/659 (99%)	574 (88%)	75 (12%)	4 (1%)	21	50
1	Ld	653/659 (99%)	571 (87%)	77 (12%)	5 (1%)	16	44
1	Le	653/659 (99%)	567 (87%)	81 (12%)	5 (1%)	16	44
1	Lv	653/659 (99%)	579 (89%)	69 (11%)	5 (1%)	16	44
1	Lw	653/659 (99%)	564 (86%)	86 (13%)	3 (0%)	24	54
1	Lx	653/659 (99%)	568 (87%)	79 (12%)	6 (1%)	14	42
1	Lz	653/659 (99%)	563 (86%)	87 (13%)	3 (0%)	24	54
1	M0	653/659 (99%)	576 (88%)	74 (11%)	3 (0%)	24	54
1	M1	653/659 (99%)	563 (86%)	85 (13%)	5 (1%)	16	44
1	M2	653/659 (99%)	573 (88%)	75 (12%)	5 (1%)	16	44
1	M3	653/659 (99%)	581 (89%)	68 (10%)	4 (1%)	21	50

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	M4	653/659 (99%)	580 (89%)	69 (11%)	4 (1%)	21	50
1	M5	653/659 (99%)	573 (88%)	76 (12%)	4 (1%)	21	50
1	M6	653/659 (99%)	569 (87%)	80 (12%)	4 (1%)	21	50
1	M7	653/659 (99%)	563 (86%)	86 (13%)	4 (1%)	21	50
1	M8	653/659 (99%)	576 (88%)	73 (11%)	4 (1%)	21	50
1	M9	653/659 (99%)	572 (88%)	77 (12%)	4 (1%)	21	50
1	MQ	653/659 (99%)	570 (87%)	80 (12%)	3 (0%)	24	54
1	MR	653/659 (99%)	566 (87%)	82 (13%)	5 (1%)	16	44
1	MS	653/659 (99%)	566 (87%)	84 (13%)	3 (0%)	24	54
1	MU	653/659 (99%)	564 (86%)	85 (13%)	4 (1%)	21	50
1	MV	653/659 (99%)	573 (88%)	76 (12%)	4 (1%)	21	50
1	MW	653/659 (99%)	573 (88%)	77 (12%)	3 (0%)	24	54
1	MX	653/659 (99%)	572 (88%)	77 (12%)	4 (1%)	21	50
1	MY	653/659 (99%)	567 (87%)	81 (12%)	5 (1%)	16	44
1	MZ	653/659 (99%)	564 (86%)	85 (13%)	4 (1%)	21	50
1	Ma	653/659 (99%)	571 (87%)	79 (12%)	3 (0%)	24	54
1	Mb	653/659 (99%)	577 (88%)	70 (11%)	6 (1%)	14	42
1	Mc	653/659 (99%)	568 (87%)	82 (13%)	3 (0%)	24	54
1	Md	653/659 (99%)	566 (87%)	83 (13%)	4 (1%)	21	50
1	Me	653/659 (99%)	573 (88%)	74 (11%)	6 (1%)	14	42
1	Mv	653/659 (99%)	581 (89%)	68 (10%)	4 (1%)	21	50
1	Mw	653/659 (99%)	567 (87%)	83 (13%)	3 (0%)	24	54
1	Mx	653/659 (99%)	571 (87%)	78 (12%)	4 (1%)	21	50
1	Mz	653/659 (99%)	572 (88%)	78 (12%)	3 (0%)	24	54
1	NV	653/659 (99%)	581 (89%)	68 (10%)	4 (1%)	21	50
1	NW	653/659 (99%)	568 (87%)	80 (12%)	5 (1%)	16	44
1	NX	653/659 (99%)	554 (85%)	93 (14%)	6 (1%)	14	42
1	NZ	653/659 (99%)	562 (86%)	88 (14%)	3 (0%)	24	54
1	Na	653/659 (99%)	568 (87%)	81 (12%)	4 (1%)	21	50
1	Nb	653/659 (99%)	570 (87%)	78 (12%)	5 (1%)	16	44
1	Nc	653/659 (99%)	571 (87%)	78 (12%)	4 (1%)	21	50

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Nd	653/659 (99%)	572 (88%)	79 (12%)	2 (0%)	36	65
1	Ne	653/659 (99%)	563 (86%)	85 (13%)	5 (1%)	16	44
1	Nf	653/659 (99%)	575 (88%)	74 (11%)	4 (1%)	21	50
1	Ng	653/659 (99%)	573 (88%)	75 (12%)	5 (1%)	16	44
1	Nh	653/659 (99%)	566 (87%)	83 (13%)	4 (1%)	21	50
1	Ni	653/659 (99%)	571 (87%)	78 (12%)	4 (1%)	21	50
1	Nj	653/659 (99%)	576 (88%)	72 (11%)	5 (1%)	16	44
1	Nv	653/659 (99%)	583 (89%)	66 (10%)	4 (1%)	21	50
1	Nw	653/659 (99%)	560 (86%)	90 (14%)	3 (0%)	24	54
1	Nx	653/659 (99%)	570 (87%)	79 (12%)	4 (1%)	21	50
1	Nz	653/659 (99%)	563 (86%)	86 (13%)	4 (1%)	21	50
2	OC	161/163 (99%)	130 (81%)	29 (18%)	2 (1%)	10	35
2	OD	161/163 (99%)	138 (86%)	20 (12%)	3 (2%)	6	26
2	OE	161/163 (99%)	141 (88%)	18 (11%)	2 (1%)	10	35
2	OF	161/163 (99%)	135 (84%)	26 (16%)	0	100	100
2	OG	161/163 (99%)	135 (84%)	23 (14%)	3 (2%)	6	26
2	OH	161/163 (99%)	136 (84%)	22 (14%)	3 (2%)	6	26
2	OI	161/163 (99%)	136 (84%)	22 (14%)	3 (2%)	6	26
2	OJ	161/163 (99%)	131 (81%)	28 (17%)	2 (1%)	10	35
2	OK	161/163 (99%)	133 (83%)	26 (16%)	2 (1%)	10	35
2	OL	161/163 (99%)	135 (84%)	23 (14%)	3 (2%)	6	26
2	OM	161/163 (99%)	132 (82%)	26 (16%)	3 (2%)	6	26
2	ON	161/163 (99%)	138 (86%)	21 (13%)	2 (1%)	10	35
2	OO	161/163 (99%)	140 (87%)	19 (12%)	2 (1%)	10	35
2	Oh	161/163 (99%)	142 (88%)	19 (12%)	0	100	100
2	Oi	161/163 (99%)	137 (85%)	23 (14%)	1 (1%)	21	50
2	Oj	161/163 (99%)	132 (82%)	28 (17%)	1 (1%)	21	50
2	Ok	161/163 (99%)	139 (86%)	19 (12%)	3 (2%)	6	26
2	Ol	161/163 (99%)	137 (85%)	23 (14%)	1 (1%)	21	50
2	Om	161/163 (99%)	136 (84%)	24 (15%)	1 (1%)	21	50
2	On	161/163 (99%)	135 (84%)	24 (15%)	2 (1%)	10	35

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	Oo	161/163 (99%)	134 (83%)	25 (16%)	2 (1%)	10 35
2	Op	161/163 (99%)	138 (86%)	19 (12%)	4 (2%)	4 21
2	Oq	161/163 (99%)	132 (82%)	26 (16%)	3 (2%)	6 26
2	Or	161/163 (99%)	128 (80%)	29 (18%)	4 (2%)	4 21
2	Os	161/163 (99%)	134 (83%)	25 (16%)	2 (1%)	10 35
2	Ot	161/163 (99%)	131 (81%)	28 (17%)	2 (1%)	10 35
2	PC	161/163 (99%)	133 (83%)	26 (16%)	2 (1%)	10 35
2	PD	161/163 (99%)	128 (80%)	30 (19%)	3 (2%)	6 26
2	PE	161/163 (99%)	135 (84%)	22 (14%)	4 (2%)	4 21
2	PF	161/163 (99%)	137 (85%)	22 (14%)	2 (1%)	10 35
2	PG	161/163 (99%)	132 (82%)	26 (16%)	3 (2%)	6 26
2	PH	161/163 (99%)	138 (86%)	21 (13%)	2 (1%)	10 35
2	PI	161/163 (99%)	127 (79%)	30 (19%)	4 (2%)	4 21
2	PJ	161/163 (99%)	133 (83%)	25 (16%)	3 (2%)	6 26
2	PK	161/163 (99%)	135 (84%)	24 (15%)	2 (1%)	10 35
2	PL	161/163 (99%)	142 (88%)	17 (11%)	2 (1%)	10 35
2	PM	161/163 (99%)	133 (83%)	25 (16%)	3 (2%)	6 26
2	PN	161/163 (99%)	129 (80%)	29 (18%)	3 (2%)	6 26
2	PO	161/163 (99%)	135 (84%)	25 (16%)	1 (1%)	21 50
2	Ph	161/163 (99%)	134 (83%)	24 (15%)	3 (2%)	6 26
2	Pi	161/163 (99%)	135 (84%)	24 (15%)	2 (1%)	10 35
2	Pj	161/163 (99%)	133 (83%)	27 (17%)	1 (1%)	21 50
2	Pk	161/163 (99%)	136 (84%)	23 (14%)	2 (1%)	10 35
2	Pl	161/163 (99%)	138 (86%)	21 (13%)	2 (1%)	10 35
2	Pm	161/163 (99%)	136 (84%)	23 (14%)	2 (1%)	10 35
2	Pn	161/163 (99%)	132 (82%)	27 (17%)	2 (1%)	10 35
2	Po	161/163 (99%)	139 (86%)	19 (12%)	3 (2%)	6 26
2	Pp	161/163 (99%)	132 (82%)	26 (16%)	3 (2%)	6 26
2	Pq	161/163 (99%)	136 (84%)	21 (13%)	4 (2%)	4 21
2	Pr	161/163 (99%)	131 (81%)	26 (16%)	4 (2%)	4 21
2	Ps	161/163 (99%)	133 (83%)	26 (16%)	2 (1%)	10 35

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	Pt	161/163 (99%)	134 (83%)	24 (15%)	3 (2%)	6 26
2	RC	161/163 (99%)	138 (86%)	21 (13%)	2 (1%)	10 35
2	RD	161/163 (99%)	137 (85%)	23 (14%)	1 (1%)	21 50
2	RE	161/163 (99%)	136 (84%)	22 (14%)	3 (2%)	6 26
2	RF	161/163 (99%)	136 (84%)	23 (14%)	2 (1%)	10 35
2	RG	161/163 (99%)	132 (82%)	27 (17%)	2 (1%)	10 35
2	RH	161/163 (99%)	135 (84%)	23 (14%)	3 (2%)	6 26
2	RI	161/163 (99%)	134 (83%)	25 (16%)	2 (1%)	10 35
2	RJ	161/163 (99%)	131 (81%)	28 (17%)	2 (1%)	10 35
2	RK	161/163 (99%)	135 (84%)	24 (15%)	2 (1%)	10 35
2	RL	161/163 (99%)	138 (86%)	21 (13%)	2 (1%)	10 35
2	RM	161/163 (99%)	135 (84%)	24 (15%)	2 (1%)	10 35
2	RN	161/163 (99%)	131 (81%)	27 (17%)	3 (2%)	6 26
2	RO	161/163 (99%)	137 (85%)	21 (13%)	3 (2%)	6 26
2	RR	161/163 (99%)	135 (84%)	24 (15%)	2 (1%)	10 35
2	RS	161/163 (99%)	132 (82%)	27 (17%)	2 (1%)	10 35
2	RT	161/163 (99%)	132 (82%)	26 (16%)	3 (2%)	6 26
2	Rk	161/163 (99%)	133 (83%)	25 (16%)	3 (2%)	6 26
2	Rl	161/163 (99%)	132 (82%)	28 (17%)	1 (1%)	21 50
2	Rm	161/163 (99%)	137 (85%)	22 (14%)	2 (1%)	10 35
2	Rn	161/163 (99%)	134 (83%)	25 (16%)	2 (1%)	10 35
2	Ro	161/163 (99%)	136 (84%)	22 (14%)	3 (2%)	6 26
2	Rp	161/163 (99%)	140 (87%)	19 (12%)	2 (1%)	10 35
2	Rq	161/163 (99%)	134 (83%)	24 (15%)	3 (2%)	6 26
2	Rr	161/163 (99%)	131 (81%)	28 (17%)	2 (1%)	10 35
2	Rs	161/163 (99%)	129 (80%)	30 (19%)	2 (1%)	10 35
2	Rt	161/163 (99%)	137 (85%)	21 (13%)	3 (2%)	6 26
All	All	67410/68070 (99%)	58363 (87%)	8522 (13%)	525 (1%)	18 44

All (525) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	K0	265	ALA

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Mol	Chain	Res	Type
1	K0	552	ASN
1	K1	265	ALA
1	K2	265	ALA
1	K2	552	ASN
1	K3	265	ALA
1	K3	552	ASN
1	K4	265	ALA
1	K4	552	ASN
1	K5	265	ALA
1	K5	552	ASN
1	K6	265	ALA
1	K6	552	ASN
1	K7	265	ALA
1	K8	552	ASN
1	K9	482	ASP
1	K9	552	ASN
1	L0	265	ALA
1	L0	552	ASN
1	L1	265	ALA
1	L1	552	ASN
1	L2	265	ALA
1	L2	346	SER
1	L2	552	ASN
1	L3	552	ASN
1	L4	265	ALA
1	L4	552	ASN
1	L5	265	ALA
1	L5	552	ASN
1	L6	265	ALA
1	L6	552	ASN
1	L7	265	ALA
1	L7	552	ASN
1	L8	552	ASN
1	L9	552	ASN
1	LQ	265	ALA
1	LQ	552	ASN
1	LR	265	ALA
1	LR	552	ASN
1	LS	265	ALA
1	LS	552	ASN
1	LU	552	ASN
1	LV	265	ALA

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Mol	Chain	Res	Type
1	LV	552	ASN
1	LW	121	VAL
1	LW	265	ALA
1	LW	552	ASN
1	LX	265	ALA
1	LX	552	ASN
1	LY	552	ASN
1	LZ	265	ALA
1	La	265	ALA
1	La	552	ASN
1	Lb	265	ALA
1	Lb	552	ASN
1	Lc	13	THR
1	Lc	265	ALA
1	Lc	552	ASN
1	Ld	265	ALA
1	Ld	552	ASN
1	Le	265	ALA
1	Le	552	ASN
1	Lv	265	ALA
1	Lv	552	ASN
1	Lw	265	ALA
1	Lw	552	ASN
1	Lx	265	ALA
1	Lx	346	SER
1	Lx	347	ASN
1	Lx	552	ASN
1	Lz	265	ALA
1	Lz	552	ASN
1	M0	265	ALA
1	M0	552	ASN
1	M1	265	ALA
1	M1	552	ASN
1	M2	121	VAL
1	M2	265	ALA
1	M2	552	ASN
1	M3	265	ALA
1	M3	552	ASN
1	M4	265	ALA
1	M4	552	ASN
1	M5	265	ALA
1	M5	552	ASN

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Mol	Chain	Res	Type
1	M6	121	VAL
1	M6	265	ALA
1	M6	552	ASN
1	M7	265	ALA
1	M7	552	ASN
1	M8	552	ASN
1	M9	552	ASN
1	MQ	265	ALA
1	MQ	552	ASN
1	MR	265	ALA
1	MR	552	ASN
1	MS	265	ALA
1	MS	552	ASN
1	MU	265	ALA
1	MU	552	ASN
1	MV	265	ALA
1	MV	552	ASN
1	MW	121	VAL
1	MW	265	ALA
1	MW	552	ASN
1	MX	265	ALA
1	MX	552	ASN
1	MY	265	ALA
1	MY	552	ASN
1	MZ	265	ALA
1	MZ	552	ASN
1	Ma	265	ALA
1	Ma	552	ASN
1	Mb	265	ALA
1	Mc	265	ALA
1	Mc	552	ASN
1	Md	265	ALA
1	Md	552	ASN
1	Me	265	ALA
1	Me	552	ASN
1	Mv	265	ALA
1	Mv	552	ASN
1	Mw	265	ALA
1	Mw	552	ASN
1	Mx	265	ALA
1	Mx	552	ASN
1	Mz	265	ALA

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Mol	Chain	Res	Type
1	Mz	552	ASN
1	NV	265	ALA
1	NV	552	ASN
1	NW	121	VAL
1	NW	265	ALA
1	NW	552	ASN
1	NX	265	ALA
1	NX	552	ASN
1	NZ	265	ALA
1	NZ	552	ASN
1	Na	265	ALA
1	Na	552	ASN
1	Nb	121	VAL
1	Nb	265	ALA
1	Nb	552	ASN
1	Nc	265	ALA
1	Nc	552	ASN
1	Nd	265	ALA
1	Ne	265	ALA
1	Ne	552	ASN
1	Nf	265	ALA
1	Nf	552	ASN
1	Ng	265	ALA
1	Ng	552	ASN
1	Nh	265	ALA
1	Nh	552	ASN
1	Ni	265	ALA
1	Ni	552	ASN
1	Nj	265	ALA
1	Nj	552	ASN
1	Nv	265	ALA
1	Nv	552	ASN
1	Nw	265	ALA
1	Nw	552	ASN
1	Nx	265	ALA
1	Nx	552	ASN
1	Nz	265	ALA
1	Nz	552	ASN
2	OD	42	PRO
2	OH	26	SER
2	OI	42	PRO
2	OK	42	PRO

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Mol	Chain	Res	Type
2	OM	42	PRO
2	Ok	42	PRO
2	Op	42	PRO
2	Oq	42	PRO
2	PC	42	PRO
2	PE	42	PRO
2	PF	42	PRO
2	PG	42	PRO
2	PI	26	SER
2	PI	42	PRO
2	PJ	42	PRO
2	PK	42	PRO
2	PM	42	PRO
2	PN	42	PRO
2	Ph	120	ALA
2	Pj	26	SER
2	Pk	42	PRO
2	Pn	42	PRO
2	Po	42	PRO
2	Pp	42	PRO
2	Ps	42	PRO
2	RF	42	PRO
2	RG	42	PRO
2	RH	26	SER
2	RK	42	PRO
2	RN	42	PRO
2	RS	42	PRO
2	RT	26	SER
2	RT	42	PRO
2	Rk	42	PRO
2	Rp	42	PRO
2	Rr	42	PRO
2	Rt	42	PRO
1	K1	13	THR
1	K1	552	ASN
1	K1	645	THR
1	K2	121	VAL
1	K4	482	ASP
1	K5	13	THR
1	K6	121	VAL
1	K7	482	ASP
1	K7	552	ASN

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Mol	Chain	Res	Type
1	K8	121	VAL
1	K9	121	VAL
1	K9	265	ALA
1	L1	345	SER
1	L1	482	ASP
1	L1	645	THR
1	L2	121	VAL
1	L3	121	VAL
1	L3	265	ALA
1	L5	13	THR
1	L5	121	VAL
1	L7	482	ASP
1	L8	121	VAL
1	LR	121	VAL
1	LS	645	THR
1	LU	13	THR
1	LU	121	VAL
1	LU	265	ALA
1	LV	482	ASP
1	LV	645	THR
1	LY	265	ALA
1	LZ	552	ASN
1	La	482	ASP
1	Lb	163	LEU
1	Ld	121	VAL
1	Le	121	VAL
1	Lw	13	THR
1	M1	482	ASP
1	M2	13	THR
1	M4	13	THR
1	M4	645	THR
1	M7	13	THR
1	M7	163	LEU
1	M8	121	VAL
1	M9	265	ALA
1	MR	121	VAL
1	MS	121	VAL
1	MV	645	THR
1	MY	482	ASP
1	MZ	482	ASP
1	Mb	345	SER
1	Mb	482	ASP

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Mol	Chain	Res	Type
1	Mb	552	ASN
1	Mc	13	THR
1	Md	121	VAL
1	Me	121	VAL
1	Mw	13	THR
1	NX	645	THR
1	Na	482	ASP
1	Ne	482	ASP
1	Ng	345	SER
1	Nh	13	THR
1	Nj	121	VAL
1	Nw	13	THR
2	OM	55	ASN
2	PJ	55	ASN
2	PN	55	ASN
2	Ph	14	ASP
2	RM	55	ASN
2	Rr	55	ASN
1	K0	345	SER
1	K3	163	LEU
1	L0	345	SER
1	L2	645	THR
1	L3	163	LEU
1	LQ	645	THR
1	LU	163	LEU
1	LX	163	LEU
1	Lc	163	LEU
1	Ld	345	SER
1	Le	645	THR
1	M0	345	SER
1	M2	163	LEU
1	M3	163	LEU
1	MR	645	THR
1	MX	163	LEU
1	MY	345	SER
1	Md	163	LEU
1	Me	645	THR
1	Mz	13	THR
1	NW	645	THR
1	Nb	645	THR
1	Nd	13	THR
1	Ne	13	THR

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Mol	Chain	Res	Type
1	Nh	163	LEU
1	Ni	645	THR
1	Nv	163	LEU
2	OE	14	ASP
2	OH	42	PRO
2	Ol	55	ASN
2	Oo	42	PRO
2	Or	55	ASN
2	PI	55	ASN
2	PL	55	ASN
2	Pq	42	PRO
2	Pt	55	ASN
2	Pt	125	LYS
2	RE	14	ASP
2	RK	14	ASP
2	RS	55	ASN
2	Rt	55	ASN
1	K0	121	VAL
1	K0	645	THR
1	K2	13	THR
1	K3	121	VAL
1	L4	13	THR
1	L8	163	LEU
1	Lb	13	THR
1	Lv	13	THR
1	M9	13	THR
1	MQ	345	SER
1	MZ	13	THR
1	Ma	121	VAL
1	Me	163	LEU
1	Nc	163	LEU
1	Nj	645	THR
1	Nv	13	THR
2	OC	42	PRO
2	OC	125	LYS
2	OE	125	LYS
2	OK	125	LYS
2	OL	42	PRO
2	OL	55	ASN
2	OO	125	LYS
2	Oj	42	PRO
2	Ok	125	LYS

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Mol	Chain	Res	Type
2	On	125	LYS
2	Op	14	ASP
2	Oq	55	ASN
2	Oq	125	LYS
2	Or	14	ASP
2	Or	42	PRO
2	Ot	125	LYS
2	PC	125	LYS
2	PE	14	ASP
2	PG	55	ASN
2	Pn	125	LYS
2	Pq	14	ASP
2	RC	125	LYS
2	RD	125	LYS
2	RE	125	LYS
2	RF	125	LYS
2	RG	55	ASN
2	RH	42	PRO
2	RJ	42	PRO
2	RJ	55	ASN
2	RL	125	LYS
2	RN	125	LYS
2	Rn	42	PRO
2	Rn	125	LYS
2	Ro	42	PRO
2	Ro	125	LYS
2	Rq	42	PRO
2	Rq	125	LYS
2	Rt	125	LYS
1	K4	13	THR
1	K4	645	THR
1	K8	13	THR
1	K9	13	THR
1	L7	13	THR
1	L8	13	THR
1	L9	13	THR
1	L9	121	VAL
1	LU	645	THR
1	LV	13	THR
1	LW	13	THR
1	LY	13	THR
1	LZ	13	THR

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Mol	Chain	Res	Type
1	La	13	THR
1	La	121	VAL
1	Ld	346	SER
1	M1	13	THR
1	M5	121	VAL
1	M6	13	THR
1	M8	13	THR
1	M8	645	THR
1	MY	13	THR
1	Mb	346	SER
1	Mv	13	THR
1	Mv	645	THR
1	Mx	13	THR
1	NW	13	THR
1	NX	163	LEU
1	Na	13	THR
1	Nb	13	THR
1	Nf	13	THR
1	Nf	121	VAL
1	Ng	346	SER
1	Nj	13	THR
1	Nx	13	THR
1	Nz	13	THR
2	OD	14	ASP
2	OG	42	PRO
2	OG	125	LYS
2	OI	55	ASN
2	OI	125	LYS
2	OJ	42	PRO
2	OL	125	LYS
2	OM	125	LYS
2	ON	125	LYS
2	OO	14	ASP
2	Oi	42	PRO
2	Om	42	PRO
2	Op	125	LYS
2	Os	125	LYS
2	PD	14	ASP
2	PD	125	LYS
2	PE	55	ASN
2	PE	125	LYS
2	PF	125	LYS

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Mol	Chain	Res	Type
2	PH	42	PRO
2	PI	125	LYS
2	PN	125	LYS
2	Pi	42	PRO
2	Pi	55	ASN
2	Pm	42	PRO
2	Pm	125	LYS
2	Pp	14	ASP
2	Pp	125	LYS
2	Pq	55	ASN
2	Pr	14	ASP
2	Pr	42	PRO
2	Pr	55	ASN
2	RI	55	ASN
2	RI	125	LYS
2	RL	55	ASN
2	RO	125	LYS
2	RR	42	PRO
2	RR	55	ASN
2	Rk	55	ASN
2	Rk	125	LYS
2	Ro	55	ASN
2	Rq	55	ASN
2	Rs	125	LYS
1	L1	13	THR
1	L2	13	THR
1	LS	572	LEU
1	Le	13	THR
1	Lv	645	THR
1	Lx	163	LEU
1	Lz	13	THR
1	M3	13	THR
1	M5	13	THR
1	MR	13	THR
1	MU	645	THR
1	MV	13	THR
1	MX	13	THR
1	Mb	13	THR
1	Me	13	THR
1	NV	136	ALA
1	NV	645	THR
1	NX	13	THR

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Mol	Chain	Res	Type
1	NX	121	VAL
1	Nc	13	THR
1	Ng	13	THR
1	Ni	13	THR
2	OD	125	LYS
2	OG	55	ASN
2	OH	14	ASP
2	OJ	55	ASN
2	ON	14	ASP
2	Ok	55	ASN
2	On	55	ASN
2	Oo	125	LYS
2	Op	55	ASN
2	Or	125	LYS
2	Os	55	ASN
2	PD	42	PRO
2	PG	14	ASP
2	PH	14	ASP
2	PJ	125	LYS
2	PK	125	LYS
2	PL	125	LYS
2	PM	55	ASN
2	PM	125	LYS
2	PO	55	ASN
2	Ph	55	ASN
2	Pk	55	ASN
2	Pl	55	ASN
2	Pl	125	LYS
2	Po	55	ASN
2	Po	125	LYS
2	Pq	125	LYS
2	Pr	125	LYS
2	Ps	125	LYS
2	RC	55	ASN
2	RH	125	LYS
2	RM	125	LYS
2	RN	55	ASN
2	RO	14	ASP
2	RO	55	ASN
2	RT	125	LYS
2	Rl	55	ASN
2	Rm	125	LYS

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Mol	Chain	Res	Type
2	Rp	125	LYS
2	Rs	55	ASN
1	K5	121	VAL
1	L6	121	VAL
1	Lx	121	VAL
1	M1	121	VAL
2	Ot	42	PRO
1	M9	121	VAL
1	Mx	121	VAL
2	Pt	42	PRO
1	MU	121	VAL
2	Rm	42	PRO
1	LZ	121	VAL
1	NZ	121	VAL
1	Ne	121	VAL
1	Nz	121	VAL
2	RE	42	PRO
1	K1	121	VAL
1	Lv	121	VAL
1	Nx	121	VAL

5.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	K0	534/536 (100%)	465 (87%)	69 (13%)	4 16
1	K1	534/536 (100%)	470 (88%)	64 (12%)	5 19
1	K2	534/536 (100%)	461 (86%)	73 (14%)	3 14
1	K3	534/536 (100%)	478 (90%)	56 (10%)	6 23
1	K4	534/536 (100%)	471 (88%)	63 (12%)	5 20
1	K5	534/536 (100%)	472 (88%)	62 (12%)	5 20
1	K6	534/536 (100%)	473 (89%)	61 (11%)	5 21
1	K7	534/536 (100%)	460 (86%)	74 (14%)	3 14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	K8	534/536 (100%)	469 (88%)	65 (12%)	5	19
1	K9	534/536 (100%)	470 (88%)	64 (12%)	5	19
1	L0	534/536 (100%)	469 (88%)	65 (12%)	5	19
1	L1	534/536 (100%)	470 (88%)	64 (12%)	5	19
1	L2	534/536 (100%)	470 (88%)	64 (12%)	5	19
1	L3	534/536 (100%)	475 (89%)	59 (11%)	6	22
1	L4	534/536 (100%)	478 (90%)	56 (10%)	6	23
1	L5	534/536 (100%)	472 (88%)	62 (12%)	5	20
1	L6	534/536 (100%)	468 (88%)	66 (12%)	4	18
1	L7	534/536 (100%)	469 (88%)	65 (12%)	5	19
1	L8	534/536 (100%)	478 (90%)	56 (10%)	6	23
1	L9	534/536 (100%)	474 (89%)	60 (11%)	6	21
1	LQ	534/536 (100%)	475 (89%)	59 (11%)	6	22
1	LR	534/536 (100%)	473 (89%)	61 (11%)	5	21
1	LS	534/536 (100%)	471 (88%)	63 (12%)	5	20
1	LU	534/536 (100%)	463 (87%)	71 (13%)	4	15
1	LV	534/536 (100%)	463 (87%)	71 (13%)	4	15
1	LW	534/536 (100%)	466 (87%)	68 (13%)	4	17
1	LX	534/536 (100%)	474 (89%)	60 (11%)	6	21
1	LY	534/536 (100%)	470 (88%)	64 (12%)	5	19
1	LZ	534/536 (100%)	474 (89%)	60 (11%)	6	21
1	La	534/536 (100%)	471 (88%)	63 (12%)	5	20
1	Lb	534/536 (100%)	469 (88%)	65 (12%)	5	19
1	Lc	534/536 (100%)	472 (88%)	62 (12%)	5	20
1	Ld	534/536 (100%)	470 (88%)	64 (12%)	5	19
1	Le	534/536 (100%)	474 (89%)	60 (11%)	6	21
1	Lv	534/536 (100%)	477 (89%)	57 (11%)	6	23
1	Lw	534/536 (100%)	464 (87%)	70 (13%)	4	16
1	Lx	534/536 (100%)	464 (87%)	70 (13%)	4	16
1	Lz	534/536 (100%)	464 (87%)	70 (13%)	4	16
1	M0	534/536 (100%)	469 (88%)	65 (12%)	5	19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	M1	534/536 (100%)	467 (88%)	67 (12%)	4	18
1	M2	534/536 (100%)	469 (88%)	65 (12%)	5	19
1	M3	534/536 (100%)	479 (90%)	55 (10%)	7	24
1	M4	534/536 (100%)	474 (89%)	60 (11%)	6	21
1	M5	534/536 (100%)	472 (88%)	62 (12%)	5	20
1	M6	534/536 (100%)	472 (88%)	62 (12%)	5	20
1	M7	534/536 (100%)	467 (88%)	67 (12%)	4	18
1	M8	534/536 (100%)	478 (90%)	56 (10%)	6	23
1	M9	534/536 (100%)	476 (89%)	58 (11%)	6	22
1	MQ	534/536 (100%)	472 (88%)	62 (12%)	5	20
1	MR	534/536 (100%)	473 (89%)	61 (11%)	5	21
1	MS	534/536 (100%)	472 (88%)	62 (12%)	5	20
1	MU	534/536 (100%)	465 (87%)	69 (13%)	4	16
1	MV	534/536 (100%)	470 (88%)	64 (12%)	5	19
1	MW	534/536 (100%)	473 (89%)	61 (11%)	5	21
1	MX	534/536 (100%)	474 (89%)	60 (11%)	6	21
1	MY	534/536 (100%)	464 (87%)	70 (13%)	4	16
1	MZ	534/536 (100%)	472 (88%)	62 (12%)	5	20
1	Ma	534/536 (100%)	469 (88%)	65 (12%)	5	19
1	Mb	534/536 (100%)	466 (87%)	68 (13%)	4	17
1	Mc	534/536 (100%)	474 (89%)	60 (11%)	6	21
1	Md	534/536 (100%)	477 (89%)	57 (11%)	6	23
1	Me	534/536 (100%)	478 (90%)	56 (10%)	6	23
1	Mv	534/536 (100%)	476 (89%)	58 (11%)	6	22
1	Mw	534/536 (100%)	464 (87%)	70 (13%)	4	16
1	Mx	534/536 (100%)	463 (87%)	71 (13%)	4	15
1	Mz	534/536 (100%)	463 (87%)	71 (13%)	4	15
1	NV	534/536 (100%)	480 (90%)	54 (10%)	7	25
1	NW	534/536 (100%)	472 (88%)	62 (12%)	5	20
1	NX	534/536 (100%)	471 (88%)	63 (12%)	5	20
1	NZ	534/536 (100%)	459 (86%)	75 (14%)	3	13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	Na	534/536 (100%)	462 (86%)	72 (14%)	4 15
1	Nb	534/536 (100%)	478 (90%)	56 (10%)	6 23
1	Nc	534/536 (100%)	462 (86%)	72 (14%)	4 15
1	Nd	534/536 (100%)	469 (88%)	65 (12%)	5 19
1	Ne	534/536 (100%)	478 (90%)	56 (10%)	6 23
1	Nf	534/536 (100%)	462 (86%)	72 (14%)	4 15
1	Ng	534/536 (100%)	467 (88%)	67 (12%)	4 18
1	Nh	534/536 (100%)	477 (89%)	57 (11%)	6 23
1	Ni	534/536 (100%)	473 (89%)	61 (11%)	5 21
1	Nj	534/536 (100%)	481 (90%)	53 (10%)	7 26
1	Nv	534/536 (100%)	465 (87%)	69 (13%)	4 16
1	Nw	534/536 (100%)	467 (88%)	67 (12%)	4 18
1	Nx	534/536 (100%)	467 (88%)	67 (12%)	4 18
1	Nz	534/536 (100%)	474 (89%)	60 (11%)	6 21
2	OC	137/137 (100%)	118 (86%)	19 (14%)	3 14
2	OD	137/137 (100%)	108 (79%)	29 (21%)	1 3
2	OE	137/137 (100%)	111 (81%)	26 (19%)	1 6
2	OF	137/137 (100%)	108 (79%)	29 (21%)	1 3
2	OG	137/137 (100%)	109 (80%)	28 (20%)	1 4
2	OH	137/137 (100%)	119 (87%)	18 (13%)	4 16
2	OI	137/137 (100%)	116 (85%)	21 (15%)	3 10
2	OJ	137/137 (100%)	111 (81%)	26 (19%)	1 6
2	OK	137/137 (100%)	116 (85%)	21 (15%)	3 10
2	OL	137/137 (100%)	108 (79%)	29 (21%)	1 3
2	OM	137/137 (100%)	115 (84%)	22 (16%)	2 10
2	ON	137/137 (100%)	111 (81%)	26 (19%)	1 6
2	OO	137/137 (100%)	110 (80%)	27 (20%)	1 5
2	Oh	137/137 (100%)	114 (83%)	23 (17%)	2 9
2	Oi	137/137 (100%)	117 (85%)	20 (15%)	3 12
2	Oj	137/137 (100%)	112 (82%)	25 (18%)	2 7
2	Ok	137/137 (100%)	113 (82%)	24 (18%)	2 8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	Ol	137/137 (100%)	113 (82%)	24 (18%)	2 8
2	Om	137/137 (100%)	111 (81%)	26 (19%)	1 6
2	On	137/137 (100%)	108 (79%)	29 (21%)	1 3
2	Oo	137/137 (100%)	107 (78%)	30 (22%)	1 3
2	Op	137/137 (100%)	108 (79%)	29 (21%)	1 3
2	Oq	137/137 (100%)	107 (78%)	30 (22%)	1 3
2	Or	137/137 (100%)	109 (80%)	28 (20%)	1 4
2	Os	137/137 (100%)	112 (82%)	25 (18%)	2 7
2	Ot	137/137 (100%)	118 (86%)	19 (14%)	3 14
2	PC	137/137 (100%)	118 (86%)	19 (14%)	3 14
2	PD	137/137 (100%)	109 (80%)	28 (20%)	1 4
2	PE	137/137 (100%)	109 (80%)	28 (20%)	1 4
2	PF	137/137 (100%)	113 (82%)	24 (18%)	2 8
2	PG	137/137 (100%)	105 (77%)	32 (23%)	1 2
2	PH	137/137 (100%)	115 (84%)	22 (16%)	2 10
2	PI	137/137 (100%)	111 (81%)	26 (19%)	1 6
2	PJ	137/137 (100%)	109 (80%)	28 (20%)	1 4
2	PK	137/137 (100%)	118 (86%)	19 (14%)	3 14
2	PL	137/137 (100%)	107 (78%)	30 (22%)	1 3
2	PM	137/137 (100%)	116 (85%)	21 (15%)	3 10
2	PN	137/137 (100%)	111 (81%)	26 (19%)	1 6
2	PO	137/137 (100%)	116 (85%)	21 (15%)	3 10
2	Ph	137/137 (100%)	118 (86%)	19 (14%)	3 14
2	Pi	137/137 (100%)	108 (79%)	29 (21%)	1 3
2	Pj	137/137 (100%)	113 (82%)	24 (18%)	2 8
2	Pk	137/137 (100%)	107 (78%)	30 (22%)	1 3
2	Pl	137/137 (100%)	110 (80%)	27 (20%)	1 5
2	Pm	137/137 (100%)	119 (87%)	18 (13%)	4 16
2	Pn	137/137 (100%)	109 (80%)	28 (20%)	1 4
2	Po	137/137 (100%)	109 (80%)	28 (20%)	1 4
2	Pp	137/137 (100%)	116 (85%)	21 (15%)	3 10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	Pq	137/137 (100%)	115 (84%)	22 (16%)	2 10
2	Pr	137/137 (100%)	117 (85%)	20 (15%)	3 12
2	Ps	137/137 (100%)	115 (84%)	22 (16%)	2 10
2	Pt	137/137 (100%)	116 (85%)	21 (15%)	3 10
2	RC	137/137 (100%)	113 (82%)	24 (18%)	2 8
2	RD	137/137 (100%)	108 (79%)	29 (21%)	1 3
2	RE	137/137 (100%)	113 (82%)	24 (18%)	2 8
2	RF	137/137 (100%)	110 (80%)	27 (20%)	1 5
2	RG	137/137 (100%)	105 (77%)	32 (23%)	1 2
2	RH	137/137 (100%)	113 (82%)	24 (18%)	2 8
2	RI	137/137 (100%)	112 (82%)	25 (18%)	2 7
2	RJ	137/137 (100%)	114 (83%)	23 (17%)	2 9
2	RK	137/137 (100%)	117 (85%)	20 (15%)	3 12
2	RL	137/137 (100%)	115 (84%)	22 (16%)	2 10
2	RM	137/137 (100%)	114 (83%)	23 (17%)	2 9
2	RN	137/137 (100%)	112 (82%)	25 (18%)	2 7
2	RO	137/137 (100%)	121 (88%)	16 (12%)	5 20
2	RR	137/137 (100%)	115 (84%)	22 (16%)	2 10
2	RS	137/137 (100%)	114 (83%)	23 (17%)	2 9
2	RT	137/137 (100%)	110 (80%)	27 (20%)	1 5
2	Rk	137/137 (100%)	110 (80%)	27 (20%)	1 5
2	Rl	137/137 (100%)	114 (83%)	23 (17%)	2 9
2	Rm	137/137 (100%)	115 (84%)	22 (16%)	2 10
2	Rn	137/137 (100%)	111 (81%)	26 (19%)	1 6
2	Ro	137/137 (100%)	109 (80%)	28 (20%)	1 4
2	Rp	137/137 (100%)	115 (84%)	22 (16%)	2 10
2	Rq	137/137 (100%)	110 (80%)	27 (20%)	1 5
2	Rr	137/137 (100%)	109 (80%)	28 (20%)	1 4
2	Rs	137/137 (100%)	109 (80%)	28 (20%)	1 4
2	Rt	137/137 (100%)	116 (85%)	21 (15%)	3 10
All	All	55542/55710 (100%)	48280 (87%)	7262 (13%)	6 16

All (7262) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	K0	14	THR
1	K0	32	LYS
1	K0	49	ASP
1	K0	58	THR
1	K0	66	MET
1	K0	80	VAL
1	K0	88	THR
1	K0	112	VAL
1	K0	116	ILE
1	K0	121	VAL
1	K0	130	LYS
1	K0	133	GLU
1	K0	134	VAL
1	K0	139	LYS
1	K0	147	THR
1	K0	149	LYS
1	K0	151	ILE
1	K0	170	GLU
1	K0	195	LEU
1	K0	199	GLU
1	K0	202	GLU
1	K0	219	ILE
1	K0	229	GLU
1	K0	239	VAL
1	K0	268	VAL
1	K0	271	TYR
1	K0	287	ASP
1	K0	298	LYS
1	K0	303	ASP
1	K0	317	LYS
1	K0	332	GLU
1	K0	344	LEU
1	K0	364	ASP
1	K0	366	GLU
1	K0	383	LEU
1	K0	398	ASP
1	K0	404	LEU
1	K0	413	THR
1	K0	414	VAL
1	K0	417	ILE
1	K0	430	ARG
1	K0	438	ASP

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Mol	Chain	Res	Type
1	K0	441	PHE
1	K0	450	ILE
1	K0	459	ASP
1	K0	468	VAL
1	K0	484	VAL
1	K0	487	THR
1	K0	503	ILE
1	K0	518	TYR
1	K0	534	VAL
1	K0	535	LEU
1	K0	536	TYR
1	K0	539	LYS
1	K0	540	THR
1	K0	542	THR
1	K0	550	ARG
1	K0	560	LEU
1	K0	564	ILE
1	K0	572	LEU
1	K0	580	THR
1	K0	590	GLN
1	K0	592	LEU
1	K0	596	LYS
1	K0	602	TYR
1	K0	606	VAL
1	K0	610	THR
1	K0	613	ASN
1	K0	629	ILE
1	K1	14	THR
1	K1	32	LYS
1	K1	42	LYS
1	K1	66	MET
1	K1	67	SER
1	K1	84	VAL
1	K1	88	THR
1	K1	99	ILE
1	K1	112	VAL
1	K1	124	ASP
1	K1	130	LYS
1	K1	139	LYS
1	K1	149	LYS
1	K1	163	LEU
1	K1	166	ASN

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Mol	Chain	Res	Type
1	K1	186	LYS
1	K1	194	LEU
1	K1	195	LEU
1	K1	199	GLU
1	K1	202	GLU
1	K1	215	LYS
1	K1	219	ILE
1	K1	223	VAL
1	K1	243	ASP
1	K1	255	TYR
1	K1	281	ILE
1	K1	283	VAL
1	K1	290	VAL
1	K1	298	LYS
1	K1	302	LYS
1	K1	303	ASP
1	K1	317	LYS
1	K1	344	LEU
1	K1	370	VAL
1	K1	383	LEU
1	K1	385	THR
1	K1	400	ARG
1	K1	404	LEU
1	K1	411	ARG
1	K1	413	THR
1	K1	417	ILE
1	K1	430	ARG
1	K1	436	TYR
1	K1	450	ILE
1	K1	467	TRP
1	K1	470	LEU
1	K1	495	ASN
1	K1	499	ILE
1	K1	503	ILE
1	K1	505	LEU
1	K1	523	ASN
1	K1	531	ASP
1	K1	535	LEU
1	K1	536	TYR
1	K1	540	THR
1	K1	550	ARG
1	K1	551	ILE

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Mol	Chain	Res	Type
1	K1	564	ILE
1	K1	592	LEU
1	K1	606	VAL
1	K1	617	VAL
1	K1	629	ILE
1	K1	637	TYR
1	K1	653	GLU
1	K2	14	THR
1	K2	23	SER
1	K2	24	THR
1	K2	32	LYS
1	K2	47	GLU
1	K2	66	MET
1	K2	81	VAL
1	K2	88	THR
1	K2	112	VAL
1	K2	130	LYS
1	K2	139	LYS
1	K2	141	LYS
1	K2	149	LYS
1	K2	166	ASN
1	K2	186	LYS
1	K2	194	LEU
1	K2	199	GLU
1	K2	202	GLU
1	K2	205	MET
1	K2	208	VAL
1	K2	215	LYS
1	K2	219	ILE
1	K2	230	LEU
1	K2	235	GLU
1	K2	239	VAL
1	K2	255	TYR
1	K2	271	TYR
1	K2	281	ILE
1	K2	290	VAL
1	K2	298	LYS
1	K2	303	ASP
1	K2	344	LEU
1	K2	346	SER
1	K2	351	THR
1	K2	372	LEU

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Mol	Chain	Res	Type
1	K2	383	LEU
1	K2	385	THR
1	K2	400	ARG
1	K2	404	LEU
1	K2	406	LEU
1	K2	413	THR
1	K2	417	ILE
1	K2	435	SER
1	K2	443	ILE
1	K2	446	THR
1	K2	450	ILE
1	K2	456	TYR
1	K2	459	ASP
1	K2	467	TRP
1	K2	477	LEU
1	K2	481	THR
1	K2	482	ASP
1	K2	484	VAL
1	K2	485	SER
1	K2	495	ASN
1	K2	503	ILE
1	K2	505	LEU
1	K2	517	LEU
1	K2	523	ASN
1	K2	535	LEU
1	K2	536	TYR
1	K2	550	ARG
1	K2	569	LYS
1	K2	572	LEU
1	K2	590	GLN
1	K2	605	ARG
1	K2	606	VAL
1	K2	610	THR
1	K2	624	VAL
1	K2	626	THR
1	K2	629	ILE
1	K2	650	ASP
1	K2	655	THR
1	K3	15	VAL
1	K3	32	LYS
1	K3	47	GLU
1	K3	63	ASP

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Mol	Chain	Res	Type
1	K3	66	MET
1	K3	80	VAL
1	K3	81	VAL
1	K3	84	VAL
1	K3	88	THR
1	K3	91	ASN
1	K3	121	VAL
1	K3	130	LYS
1	K3	139	LYS
1	K3	149	LYS
1	K3	171	ILE
1	K3	194	LEU
1	K3	195	LEU
1	K3	199	GLU
1	K3	202	GLU
1	K3	208	VAL
1	K3	219	ILE
1	K3	229	GLU
1	K3	230	LEU
1	K3	239	VAL
1	K3	290	VAL
1	K3	298	LYS
1	K3	303	ASP
1	K3	344	LEU
1	K3	351	THR
1	K3	383	LEU
1	K3	404	LEU
1	K3	413	THR
1	K3	414	VAL
1	K3	417	ILE
1	K3	430	ARG
1	K3	438	ASP
1	K3	460	LYS
1	K3	466	ARG
1	K3	467	TRP
1	K3	470	LEU
1	K3	483	ASN
1	K3	487	THR
1	K3	495	ASN
1	K3	505	LEU
1	K3	517	LEU
1	K3	526	THR

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Mol	Chain	Res	Type
1	K3	535	LEU
1	K3	536	TYR
1	K3	540	THR
1	K3	550	ARG
1	K3	553	VAL
1	K3	569	LYS
1	K3	575	LEU
1	K3	624	VAL
1	K3	650	ASP
1	K3	655	THR
1	K4	14	THR
1	K4	32	LYS
1	K4	42	LYS
1	K4	66	MET
1	K4	67	SER
1	K4	72	LEU
1	K4	80	VAL
1	K4	81	VAL
1	K4	85	ASP
1	K4	112	VAL
1	K4	130	LYS
1	K4	139	LYS
1	K4	149	LYS
1	K4	163	LEU
1	K4	166	ASN
1	K4	186	LYS
1	K4	193	ILE
1	K4	202	GLU
1	K4	219	ILE
1	K4	230	LEU
1	K4	260	THR
1	K4	298	LYS
1	K4	303	ASP
1	K4	311	ILE
1	K4	317	LYS
1	K4	344	LEU
1	K4	351	THR
1	K4	372	LEU
1	K4	383	LEU
1	K4	385	THR
1	K4	398	ASP
1	K4	400	ARG

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Mol	Chain	Res	Type
1	K4	404	LEU
1	K4	412	GLU
1	K4	413	THR
1	K4	414	VAL
1	K4	417	ILE
1	K4	430	ARG
1	K4	446	THR
1	K4	450	ILE
1	K4	467	TRP
1	K4	484	VAL
1	K4	495	ASN
1	K4	503	ILE
1	K4	505	LEU
1	K4	517	LEU
1	K4	523	ASN
1	K4	534	VAL
1	K4	535	LEU
1	K4	536	TYR
1	K4	540	THR
1	K4	542	THR
1	K4	544	VAL
1	K4	550	ARG
1	K4	551	ILE
1	K4	559	MET
1	K4	569	LYS
1	K4	592	LEU
1	K4	606	VAL
1	K4	617	VAL
1	K4	624	VAL
1	K4	650	ASP
1	K4	655	THR
1	K5	14	THR
1	K5	32	LYS
1	K5	47	GLU
1	K5	49	ASP
1	K5	66	MET
1	K5	69	MET
1	K5	72	LEU
1	K5	76	ASN
1	K5	81	VAL
1	K5	91	ASN
1	K5	112	VAL

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Mol	Chain	Res	Type
1	K5	130	LYS
1	K5	139	LYS
1	K5	141	LYS
1	K5	149	LYS
1	K5	166	ASN
1	K5	178	LEU
1	K5	186	LYS
1	K5	194	LEU
1	K5	195	LEU
1	K5	199	GLU
1	K5	202	GLU
1	K5	208	VAL
1	K5	219	ILE
1	K5	230	LEU
1	K5	239	VAL
1	K5	281	ILE
1	K5	290	VAL
1	K5	297	THR
1	K5	298	LYS
1	K5	303	ASP
1	K5	326	THR
1	K5	372	LEU
1	K5	382	SER
1	K5	385	THR
1	K5	398	ASP
1	K5	404	LEU
1	K5	417	ILE
1	K5	450	ILE
1	K5	467	TRP
1	K5	477	LEU
1	K5	482	ASP
1	K5	483	ASN
1	K5	484	VAL
1	K5	490	SER
1	K5	495	ASN
1	K5	503	ILE
1	K5	505	LEU
1	K5	517	LEU
1	K5	536	TYR
1	K5	540	THR
1	K5	550	ARG
1	K5	553	VAL

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Mol	Chain	Res	Type
1	K5	569	LYS
1	K5	572	LEU
1	K5	580	THR
1	K5	592	LEU
1	K5	606	VAL
1	K5	612	ASN
1	K5	617	VAL
1	K5	624	VAL
1	K5	629	ILE
1	K6	16	GLN
1	K6	32	LYS
1	K6	47	GLU
1	K6	48	VAL
1	K6	66	MET
1	K6	72	LEU
1	K6	80	VAL
1	K6	81	VAL
1	K6	86	ARG
1	K6	88	THR
1	K6	112	VAL
1	K6	130	LYS
1	K6	139	LYS
1	K6	166	ASN
1	K6	178	LEU
1	K6	194	LEU
1	K6	195	LEU
1	K6	197	GLU
1	K6	199	GLU
1	K6	202	GLU
1	K6	209	ASP
1	K6	219	ILE
1	K6	260	THR
1	K6	281	ILE
1	K6	282	ILE
1	K6	290	VAL
1	K6	298	LYS
1	K6	303	ASP
1	K6	317	LYS
1	K6	321	GLU
1	K6	366	GLU
1	K6	385	THR
1	K6	404	LEU

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Mol	Chain	Res	Type
1	K6	411	ARG
1	K6	412	GLU
1	K6	413	THR
1	K6	415	VAL
1	K6	417	ILE
1	K6	430	ARG
1	K6	431	THR
1	K6	450	ILE
1	K6	453	ASN
1	K6	467	TRP
1	K6	484	VAL
1	K6	503	ILE
1	K6	505	LEU
1	K6	535	LEU
1	K6	536	TYR
1	K6	540	THR
1	K6	550	ARG
1	K6	553	VAL
1	K6	556	LEU
1	K6	572	LEU
1	K6	592	LEU
1	K6	601	ILE
1	K6	606	VAL
1	K6	612	ASN
1	K6	629	ILE
1	K6	650	ASP
1	K6	651	PHE
1	K6	655	THR
1	K7	14	THR
1	K7	32	LYS
1	K7	63	ASP
1	K7	66	MET
1	K7	72	LEU
1	K7	81	VAL
1	K7	84	VAL
1	K7	88	THR
1	K7	109	ASN
1	K7	112	VAL
1	K7	119	LYS
1	K7	130	LYS
1	K7	133	GLU
1	K7	139	LYS

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Mol	Chain	Res	Type
1	K7	141	LYS
1	K7	149	LYS
1	K7	163	LEU
1	K7	166	ASN
1	K7	186	LYS
1	K7	194	LEU
1	K7	199	GLU
1	K7	200	ASN
1	K7	205	MET
1	K7	208	VAL
1	K7	215	LYS
1	K7	219	ILE
1	K7	223	VAL
1	K7	230	LEU
1	K7	239	VAL
1	K7	264	THR
1	K7	290	VAL
1	K7	294	VAL
1	K7	298	LYS
1	K7	299	ARG
1	K7	303	ASP
1	K7	304	ILE
1	K7	321	GLU
1	K7	383	LEU
1	K7	385	THR
1	K7	400	ARG
1	K7	404	LEU
1	K7	413	THR
1	K7	415	VAL
1	K7	417	ILE
1	K7	430	ARG
1	K7	438	ASP
1	K7	450	ILE
1	K7	455	LYS
1	K7	456	TYR
1	K7	459	ASP
1	K7	464	VAL
1	K7	467	TRP
1	K7	484	VAL
1	K7	487	THR
1	K7	503	ILE
1	K7	505	LEU

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Mol	Chain	Res	Type
1	K7	523	ASN
1	K7	535	LEU
1	K7	540	THR
1	K7	550	ARG
1	K7	553	VAL
1	K7	559	MET
1	K7	560	LEU
1	K7	564	ILE
1	K7	571	ARG
1	K7	572	LEU
1	K7	574	GLU
1	K7	592	LEU
1	K7	606	VAL
1	K7	612	ASN
1	K7	624	VAL
1	K7	629	ILE
1	K7	650	ASP
1	K7	655	THR
1	K8	14	THR
1	K8	16	GLN
1	K8	32	LYS
1	K8	42	LYS
1	K8	43	GLN
1	K8	45	THR
1	K8	47	GLU
1	K8	66	MET
1	K8	72	LEU
1	K8	80	VAL
1	K8	91	ASN
1	K8	112	VAL
1	K8	119	LYS
1	K8	130	LYS
1	K8	139	LYS
1	K8	149	LYS
1	K8	163	LEU
1	K8	166	ASN
1	K8	186	LYS
1	K8	194	LEU
1	K8	195	LEU
1	K8	199	GLU
1	K8	205	MET
1	K8	215	LYS

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Mol	Chain	Res	Type
1	K8	219	ILE
1	K8	239	VAL
1	K8	252	LEU
1	K8	263	SER
1	K8	281	ILE
1	K8	290	VAL
1	K8	293	VAL
1	K8	298	LYS
1	K8	303	ASP
1	K8	312	ASP
1	K8	344	LEU
1	K8	385	THR
1	K8	398	ASP
1	K8	404	LEU
1	K8	417	ILE
1	K8	430	ARG
1	K8	450	ILE
1	K8	456	TYR
1	K8	467	TRP
1	K8	477	LEU
1	K8	483	ASN
1	K8	484	VAL
1	K8	503	ILE
1	K8	505	LEU
1	K8	523	ASN
1	K8	535	LEU
1	K8	536	TYR
1	K8	539	LYS
1	K8	542	THR
1	K8	550	ARG
1	K8	563	ASN
1	K8	569	LYS
1	K8	572	LEU
1	K8	574	GLU
1	K8	590	GLN
1	K8	592	LEU
1	K8	605	ARG
1	K8	606	VAL
1	K8	610	THR
1	K8	617	VAL
1	K8	650	ASP
1	K9	14	THR

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Mol	Chain	Res	Type
1	K9	16	GLN
1	K9	26	THR
1	K9	32	LYS
1	K9	47	GLU
1	K9	66	MET
1	K9	72	LEU
1	K9	84	VAL
1	K9	85	ASP
1	K9	88	THR
1	K9	91	ASN
1	K9	112	VAL
1	K9	114	ASP
1	K9	130	LYS
1	K9	133	GLU
1	K9	147	THR
1	K9	149	LYS
1	K9	166	ASN
1	K9	178	LEU
1	K9	188	ILE
1	K9	195	LEU
1	K9	202	GLU
1	K9	219	ILE
1	K9	230	LEU
1	K9	239	VAL
1	K9	252	LEU
1	K9	290	VAL
1	K9	298	LYS
1	K9	299	ARG
1	K9	303	ASP
1	K9	306	ASP
1	K9	321	GLU
1	K9	344	LEU
1	K9	365	ARG
1	K9	388	THR
1	K9	404	LEU
1	K9	413	THR
1	K9	417	ILE
1	K9	430	ARG
1	K9	431	THR
1	K9	443	ILE
1	K9	450	ILE
1	K9	467	TRP

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Mol	Chain	Res	Type
1	K9	468	VAL
1	K9	470	LEU
1	K9	484	VAL
1	K9	487	THR
1	K9	495	ASN
1	K9	505	LEU
1	K9	517	LEU
1	K9	523	ASN
1	K9	535	LEU
1	K9	536	TYR
1	K9	550	ARG
1	K9	551	ILE
1	K9	553	VAL
1	K9	556	LEU
1	K9	572	LEU
1	K9	590	GLN
1	K9	606	VAL
1	K9	617	VAL
1	K9	629	ILE
1	K9	650	ASP
1	K9	655	THR
1	L0	14	THR
1	L0	32	LYS
1	L0	49	ASP
1	L0	66	MET
1	L0	72	LEU
1	L0	88	THR
1	L0	112	VAL
1	L0	117	THR
1	L0	130	LYS
1	L0	139	LYS
1	L0	147	THR
1	L0	149	LYS
1	L0	166	ASN
1	L0	186	LYS
1	L0	199	GLU
1	L0	208	VAL
1	L0	219	ILE
1	L0	223	VAL
1	L0	229	GLU
1	L0	239	VAL
1	L0	252	LEU

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Mol	Chain	Res	Type
1	L0	268	VAL
1	L0	271	TYR
1	L0	287	ASP
1	L0	290	VAL
1	L0	298	LYS
1	L0	302	LYS
1	L0	303	ASP
1	L0	312	ASP
1	L0	344	LEU
1	L0	366	GLU
1	L0	368	VAL
1	L0	382	SER
1	L0	383	LEU
1	L0	398	ASP
1	L0	400	ARG
1	L0	404	LEU
1	L0	417	ILE
1	L0	419	VAL
1	L0	430	ARG
1	L0	441	PHE
1	L0	450	ILE
1	L0	453	ASN
1	L0	459	ASP
1	L0	499	ILE
1	L0	503	ILE
1	L0	523	ASN
1	L0	535	LEU
1	L0	536	TYR
1	L0	540	THR
1	L0	550	ARG
1	L0	553	VAL
1	L0	556	LEU
1	L0	560	LEU
1	L0	562	THR
1	L0	564	ILE
1	L0	569	LYS
1	L0	572	LEU
1	L0	580	THR
1	L0	592	LEU
1	L0	606	VAL
1	L0	610	THR
1	L0	621	ASN

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Mol	Chain	Res	Type
1	L0	624	VAL
1	L0	629	ILE
1	L1	14	THR
1	L1	32	LYS
1	L1	47	GLU
1	L1	63	ASP
1	L1	66	MET
1	L1	67	SER
1	L1	72	LEU
1	L1	81	VAL
1	L1	88	THR
1	L1	112	VAL
1	L1	130	LYS
1	L1	139	LYS
1	L1	149	LYS
1	L1	166	ASN
1	L1	178	LEU
1	L1	182	ILE
1	L1	190	ASP
1	L1	202	GLU
1	L1	215	LYS
1	L1	219	ILE
1	L1	271	TYR
1	L1	290	VAL
1	L1	302	LYS
1	L1	303	ASP
1	L1	317	LYS
1	L1	344	LEU
1	L1	346	SER
1	L1	370	VAL
1	L1	372	LEU
1	L1	383	LEU
1	L1	385	THR
1	L1	400	ARG
1	L1	413	THR
1	L1	417	ILE
1	L1	430	ARG
1	L1	456	TYR
1	L1	467	TRP
1	L1	484	VAL
1	L1	487	THR
1	L1	495	ASN

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Mol	Chain	Res	Type
1	L1	499	ILE
1	L1	503	ILE
1	L1	505	LEU
1	L1	513	GLN
1	L1	517	LEU
1	L1	523	ASN
1	L1	535	LEU
1	L1	536	TYR
1	L1	540	THR
1	L1	542	THR
1	L1	550	ARG
1	L1	551	ILE
1	L1	564	ILE
1	L1	569	LYS
1	L1	571	ARG
1	L1	572	LEU
1	L1	590	GLN
1	L1	592	LEU
1	L1	606	VAL
1	L1	607	VAL
1	L1	617	VAL
1	L1	626	THR
1	L1	629	ILE
1	L1	637	TYR
1	L2	14	THR
1	L2	18	THR
1	L2	24	THR
1	L2	32	LYS
1	L2	47	GLU
1	L2	66	MET
1	L2	72	LEU
1	L2	81	VAL
1	L2	88	THR
1	L2	112	VAL
1	L2	121	VAL
1	L2	130	LYS
1	L2	134	VAL
1	L2	139	LYS
1	L2	141	LYS
1	L2	149	LYS
1	L2	166	ASN
1	L2	194	LEU

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Mol	Chain	Res	Type
1	L2	202	GLU
1	L2	219	ILE
1	L2	230	LEU
1	L2	235	GLU
1	L2	239	VAL
1	L2	255	TYR
1	L2	271	TYR
1	L2	283	VAL
1	L2	290	VAL
1	L2	298	LYS
1	L2	299	ARG
1	L2	303	ASP
1	L2	344	LEU
1	L2	372	LEU
1	L2	383	LEU
1	L2	385	THR
1	L2	398	ASP
1	L2	406	LEU
1	L2	407	CYS
1	L2	413	THR
1	L2	417	ILE
1	L2	430	ARG
1	L2	435	SER
1	L2	450	ILE
1	L2	467	TRP
1	L2	482	ASP
1	L2	484	VAL
1	L2	487	THR
1	L2	490	SER
1	L2	495	ASN
1	L2	501	ASN
1	L2	503	ILE
1	L2	505	LEU
1	L2	517	LEU
1	L2	535	LEU
1	L2	536	TYR
1	L2	540	THR
1	L2	550	ARG
1	L2	569	LYS
1	L2	572	LEU
1	L2	606	VAL
1	L2	610	THR

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Mol	Chain	Res	Type
1	L2	617	VAL
1	L2	624	VAL
1	L2	629	ILE
1	L2	650	ASP
1	L3	15	VAL
1	L3	32	LYS
1	L3	42	LYS
1	L3	47	GLU
1	L3	66	MET
1	L3	78	LEU
1	L3	80	VAL
1	L3	81	VAL
1	L3	84	VAL
1	L3	91	ASN
1	L3	109	ASN
1	L3	121	VAL
1	L3	130	LYS
1	L3	139	LYS
1	L3	149	LYS
1	L3	194	LEU
1	L3	195	LEU
1	L3	199	GLU
1	L3	202	GLU
1	L3	219	ILE
1	L3	229	GLU
1	L3	230	LEU
1	L3	252	LEU
1	L3	290	VAL
1	L3	298	LYS
1	L3	303	ASP
1	L3	344	LEU
1	L3	350	VAL
1	L3	351	THR
1	L3	357	GLU
1	L3	383	LEU
1	L3	385	THR
1	L3	400	ARG
1	L3	404	LEU
1	L3	413	THR
1	L3	417	ILE
1	L3	438	ASP
1	L3	446	THR

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Mol	Chain	Res	Type
1	L3	460	LYS
1	L3	467	TRP
1	L3	470	LEU
1	L3	477	LEU
1	L3	484	VAL
1	L3	487	THR
1	L3	495	ASN
1	L3	505	LEU
1	L3	517	LEU
1	L3	526	THR
1	L3	535	LEU
1	L3	536	TYR
1	L3	550	ARG
1	L3	553	VAL
1	L3	556	LEU
1	L3	559	MET
1	L3	572	LEU
1	L3	617	VAL
1	L3	650	ASP
1	L3	651	PHE
1	L3	655	THR
1	L4	14	THR
1	L4	32	LYS
1	L4	42	LYS
1	L4	58	THR
1	L4	66	MET
1	L4	72	LEU
1	L4	81	VAL
1	L4	84	VAL
1	L4	109	ASN
1	L4	112	VAL
1	L4	130	LYS
1	L4	139	LYS
1	L4	149	LYS
1	L4	183	THR
1	L4	186	LYS
1	L4	194	LEU
1	L4	219	ILE
1	L4	252	LEU
1	L4	260	THR
1	L4	298	LYS
1	L4	303	ASP

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Mol	Chain	Res	Type
1	L4	344	LEU
1	L4	366	GLU
1	L4	372	LEU
1	L4	383	LEU
1	L4	385	THR
1	L4	398	ASP
1	L4	404	LEU
1	L4	413	THR
1	L4	417	ILE
1	L4	430	ARG
1	L4	446	THR
1	L4	450	ILE
1	L4	453	ASN
1	L4	467	TRP
1	L4	495	ASN
1	L4	503	ILE
1	L4	505	LEU
1	L4	517	LEU
1	L4	534	VAL
1	L4	535	LEU
1	L4	536	TYR
1	L4	550	ARG
1	L4	551	ILE
1	L4	559	MET
1	L4	560	LEU
1	L4	564	ILE
1	L4	569	LYS
1	L4	571	ARG
1	L4	592	LEU
1	L4	606	VAL
1	L4	617	VAL
1	L4	624	VAL
1	L4	629	ILE
1	L4	650	ASP
1	L4	655	THR
1	L5	14	THR
1	L5	16	GLN
1	L5	26	THR
1	L5	32	LYS
1	L5	42	LYS
1	L5	66	MET
1	L5	72	LEU

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Mol	Chain	Res	Type
1	L5	88	THR
1	L5	112	VAL
1	L5	121	VAL
1	L5	130	LYS
1	L5	139	LYS
1	L5	141	LYS
1	L5	149	LYS
1	L5	178	LEU
1	L5	186	LYS
1	L5	194	LEU
1	L5	195	LEU
1	L5	198	ILE
1	L5	202	GLU
1	L5	208	VAL
1	L5	215	LYS
1	L5	219	ILE
1	L5	230	LEU
1	L5	239	VAL
1	L5	281	ILE
1	L5	290	VAL
1	L5	296	SER
1	L5	297	THR
1	L5	298	LYS
1	L5	303	ASP
1	L5	337	ILE
1	L5	344	LEU
1	L5	372	LEU
1	L5	385	THR
1	L5	398	ASP
1	L5	404	LEU
1	L5	417	ILE
1	L5	450	ILE
1	L5	456	TYR
1	L5	467	TRP
1	L5	495	ASN
1	L5	503	ILE
1	L5	517	LEU
1	L5	523	ASN
1	L5	535	LEU
1	L5	536	TYR
1	L5	538	ASP
1	L5	550	ARG

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Mol	Chain	Res	Type
1	L5	556	LEU
1	L5	563	ASN
1	L5	564	ILE
1	L5	569	LYS
1	L5	572	LEU
1	L5	580	THR
1	L5	590	GLN
1	L5	592	LEU
1	L5	606	VAL
1	L5	612	ASN
1	L5	626	THR
1	L5	629	ILE
1	L5	655	THR
1	L6	10	LEU
1	L6	14	THR
1	L6	32	LYS
1	L6	47	GLU
1	L6	66	MET
1	L6	72	LEU
1	L6	76	ASN
1	L6	80	VAL
1	L6	81	VAL
1	L6	84	VAL
1	L6	86	ARG
1	L6	88	THR
1	L6	91	ASN
1	L6	109	ASN
1	L6	112	VAL
1	L6	130	LYS
1	L6	139	LYS
1	L6	141	LYS
1	L6	149	LYS
1	L6	166	ASN
1	L6	178	LEU
1	L6	194	LEU
1	L6	195	LEU
1	L6	202	GLU
1	L6	219	ILE
1	L6	251	LEU
1	L6	260	THR
1	L6	275	THR
1	L6	290	VAL

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Mol	Chain	Res	Type
1	L6	298	LYS
1	L6	303	ASP
1	L6	366	GLU
1	L6	372	LEU
1	L6	383	LEU
1	L6	385	THR
1	L6	404	LEU
1	L6	411	ARG
1	L6	413	THR
1	L6	417	ILE
1	L6	437	THR
1	L6	438	ASP
1	L6	444	SER
1	L6	450	ILE
1	L6	467	TRP
1	L6	468	VAL
1	L6	484	VAL
1	L6	487	THR
1	L6	505	LEU
1	L6	535	LEU
1	L6	536	TYR
1	L6	540	THR
1	L6	542	THR
1	L6	550	ARG
1	L6	556	LEU
1	L6	569	LYS
1	L6	572	LEU
1	L6	574	GLU
1	L6	577	ASN
1	L6	588	THR
1	L6	592	LEU
1	L6	606	VAL
1	L6	612	ASN
1	L6	626	THR
1	L6	650	ASP
1	L6	651	PHE
1	L6	655	THR
1	L7	14	THR
1	L7	32	LYS
1	L7	47	GLU
1	L7	60	GLU
1	L7	66	MET

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Mol	Chain	Res	Type
1	L7	72	LEU
1	L7	81	VAL
1	L7	84	VAL
1	L7	109	ASN
1	L7	112	VAL
1	L7	130	LYS
1	L7	139	LYS
1	L7	149	LYS
1	L7	166	ASN
1	L7	186	LYS
1	L7	190	ASP
1	L7	195	LEU
1	L7	199	GLU
1	L7	205	MET
1	L7	208	VAL
1	L7	215	LYS
1	L7	219	ILE
1	L7	234	ILE
1	L7	239	VAL
1	L7	264	THR
1	L7	290	VAL
1	L7	298	LYS
1	L7	299	ARG
1	L7	303	ASP
1	L7	304	ILE
1	L7	317	LYS
1	L7	344	LEU
1	L7	383	LEU
1	L7	385	THR
1	L7	400	ARG
1	L7	402	ASP
1	L7	413	THR
1	L7	415	VAL
1	L7	417	ILE
1	L7	430	ARG
1	L7	450	ILE
1	L7	454	TYR
1	L7	456	TYR
1	L7	467	TRP
1	L7	484	VAL
1	L7	487	THR
1	L7	503	ILE

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Mol	Chain	Res	Type
1	L7	505	LEU
1	L7	517	LEU
1	L7	523	ASN
1	L7	535	LEU
1	L7	540	THR
1	L7	550	ARG
1	L7	553	VAL
1	L7	559	MET
1	L7	564	ILE
1	L7	572	LEU
1	L7	586	THR
1	L7	588	THR
1	L7	592	LEU
1	L7	606	VAL
1	L7	629	ILE
1	L7	633	ARG
1	L7	650	ASP
1	L7	655	THR
1	L8	14	THR
1	L8	32	LYS
1	L8	66	MET
1	L8	72	LEU
1	L8	81	VAL
1	L8	84	VAL
1	L8	91	ASN
1	L8	112	VAL
1	L8	130	LYS
1	L8	139	LYS
1	L8	149	LYS
1	L8	171	ILE
1	L8	183	THR
1	L8	194	LEU
1	L8	195	LEU
1	L8	199	GLU
1	L8	202	GLU
1	L8	205	MET
1	L8	219	ILE
1	L8	239	VAL
1	L8	263	SER
1	L8	290	VAL
1	L8	298	LYS
1	L8	303	ASP

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Mol	Chain	Res	Type
1	L8	306	ASP
1	L8	312	ASP
1	L8	317	LYS
1	L8	344	LEU
1	L8	372	LEU
1	L8	383	LEU
1	L8	385	THR
1	L8	398	ASP
1	L8	404	LEU
1	L8	413	THR
1	L8	415	VAL
1	L8	417	ILE
1	L8	426	LEU
1	L8	446	THR
1	L8	450	ILE
1	L8	453	ASN
1	L8	467	TRP
1	L8	483	ASN
1	L8	495	ASN
1	L8	499	ILE
1	L8	503	ILE
1	L8	505	LEU
1	L8	534	VAL
1	L8	535	LEU
1	L8	536	TYR
1	L8	539	LYS
1	L8	540	THR
1	L8	550	ARG
1	L8	572	LEU
1	L8	592	LEU
1	L8	605	ARG
1	L8	606	VAL
1	L9	2	THR
1	L9	14	THR
1	L9	16	GLN
1	L9	26	THR
1	L9	32	LYS
1	L9	47	GLU
1	L9	66	MET
1	L9	72	LEU
1	L9	84	VAL
1	L9	88	THR

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Mol	Chain	Res	Type
1	L9	91	ASN
1	L9	112	VAL
1	L9	114	ASP
1	L9	130	LYS
1	L9	133	GLU
1	L9	147	THR
1	L9	149	LYS
1	L9	163	LEU
1	L9	171	ILE
1	L9	195	LEU
1	L9	202	GLU
1	L9	219	ILE
1	L9	230	LEU
1	L9	290	VAL
1	L9	298	LYS
1	L9	299	ARG
1	L9	303	ASP
1	L9	332	GLU
1	L9	344	LEU
1	L9	404	LEU
1	L9	406	LEU
1	L9	417	ILE
1	L9	420	THR
1	L9	430	ARG
1	L9	431	THR
1	L9	438	ASP
1	L9	446	THR
1	L9	450	ILE
1	L9	456	TYR
1	L9	467	TRP
1	L9	482	ASP
1	L9	499	ILE
1	L9	503	ILE
1	L9	505	LEU
1	L9	523	ASN
1	L9	535	LEU
1	L9	536	TYR
1	L9	540	THR
1	L9	550	ARG
1	L9	553	VAL
1	L9	556	LEU
1	L9	569	LYS

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Mol	Chain	Res	Type
1	L9	572	LEU
1	L9	590	GLN
1	L9	596	LYS
1	L9	602	TYR
1	L9	606	VAL
1	L9	617	VAL
1	L9	629	ILE
1	L9	655	THR
1	LQ	32	LYS
1	LQ	49	ASP
1	LQ	66	MET
1	LQ	81	VAL
1	LQ	84	VAL
1	LQ	86	ARG
1	LQ	88	THR
1	LQ	112	VAL
1	LQ	130	LYS
1	LQ	133	GLU
1	LQ	134	VAL
1	LQ	139	LYS
1	LQ	149	LYS
1	LQ	153	LYS
1	LQ	186	LYS
1	LQ	195	LEU
1	LQ	202	GLU
1	LQ	215	LYS
1	LQ	219	ILE
1	LQ	229	GLU
1	LQ	290	VAL
1	LQ	297	THR
1	LQ	298	LYS
1	LQ	303	ASP
1	LQ	312	ASP
1	LQ	326	THR
1	LQ	351	THR
1	LQ	357	GLU
1	LQ	365	ARG
1	LQ	370	VAL
1	LQ	382	SER
1	LQ	383	LEU
1	LQ	400	ARG
1	LQ	404	LEU

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Mol	Chain	Res	Type
1	LQ	406	LEU
1	LQ	417	ILE
1	LQ	450	ILE
1	LQ	455	LYS
1	LQ	456	TYR
1	LQ	467	TRP
1	LQ	482	ASP
1	LQ	483	ASN
1	LQ	484	VAL
1	LQ	495	ASN
1	LQ	503	ILE
1	LQ	505	LEU
1	LQ	526	THR
1	LQ	535	LEU
1	LQ	536	TYR
1	LQ	540	THR
1	LQ	550	ARG
1	LQ	572	LEU
1	LQ	592	LEU
1	LQ	606	VAL
1	LQ	609	ASP
1	LQ	619	ASP
1	LQ	629	ILE
1	LQ	650	ASP
1	LQ	655	THR
1	LR	14	THR
1	LR	58	THR
1	LR	66	MET
1	LR	72	LEU
1	LR	80	VAL
1	LR	81	VAL
1	LR	88	THR
1	LR	91	ASN
1	LR	112	VAL
1	LR	116	ILE
1	LR	119	LYS
1	LR	126	GLU
1	LR	130	LYS
1	LR	131	ILE
1	LR	139	LYS
1	LR	149	LYS
1	LR	156	GLU

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Mol	Chain	Res	Type
1	LR	166	ASN
1	LR	186	LYS
1	LR	195	LEU
1	LR	197	GLU
1	LR	202	GLU
1	LR	208	VAL
1	LR	209	ASP
1	LR	219	ILE
1	LR	229	GLU
1	LR	236	ILE
1	LR	290	VAL
1	LR	298	LYS
1	LR	299	ARG
1	LR	303	ASP
1	LR	344	LEU
1	LR	349	GLU
1	LR	382	SER
1	LR	383	LEU
1	LR	398	ASP
1	LR	404	LEU
1	LR	413	THR
1	LR	417	ILE
1	LR	437	THR
1	LR	454	TYR
1	LR	455	LYS
1	LR	456	TYR
1	LR	460	LYS
1	LR	467	TRP
1	LR	503	ILE
1	LR	505	LEU
1	LR	535	LEU
1	LR	536	TYR
1	LR	542	THR
1	LR	550	ARG
1	LR	551	ILE
1	LR	569	LYS
1	LR	592	LEU
1	LR	606	VAL
1	LR	607	VAL
1	LR	609	ASP
1	LR	610	THR
1	LR	629	ILE

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Mol	Chain	Res	Type
1	LR	643	VAL
1	LR	653	GLU
1	LS	16	GLN
1	LS	32	LYS
1	LS	47	GLU
1	LS	58	THR
1	LS	66	MET
1	LS	72	LEU
1	LS	81	VAL
1	LS	88	THR
1	LS	91	ASN
1	LS	109	ASN
1	LS	112	VAL
1	LS	130	LYS
1	LS	139	LYS
1	LS	141	LYS
1	LS	149	LYS
1	LS	151	ILE
1	LS	166	ASN
1	LS	186	LYS
1	LS	194	LEU
1	LS	195	LEU
1	LS	202	GLU
1	LS	215	LYS
1	LS	219	ILE
1	LS	235	GLU
1	LS	286	ASN
1	LS	289	ILE
1	LS	290	VAL
1	LS	297	THR
1	LS	298	LYS
1	LS	303	ASP
1	LS	344	LEU
1	LS	372	LEU
1	LS	383	LEU
1	LS	398	ASP
1	LS	404	LEU
1	LS	413	THR
1	LS	417	ILE
1	LS	421	ARG
1	LS	439	ASN
1	LS	450	ILE

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Mol	Chain	Res	Type
1	LS	456	TYR
1	LS	467	TRP
1	LS	470	LEU
1	LS	477	LEU
1	LS	487	THR
1	LS	495	ASN
1	LS	499	ILE
1	LS	503	ILE
1	LS	517	LEU
1	LS	534	VAL
1	LS	535	LEU
1	LS	536	TYR
1	LS	538	ASP
1	LS	540	THR
1	LS	550	ARG
1	LS	592	LEU
1	LS	596	LYS
1	LS	606	VAL
1	LS	617	VAL
1	LS	624	VAL
1	LS	629	ILE
1	LS	650	ASP
1	LS	655	THR
1	LU	32	LYS
1	LU	60	GLU
1	LU	66	MET
1	LU	72	LEU
1	LU	81	VAL
1	LU	84	VAL
1	LU	102	THR
1	LU	109	ASN
1	LU	112	VAL
1	LU	121	VAL
1	LU	130	LYS
1	LU	139	LYS
1	LU	141	LYS
1	LU	149	LYS
1	LU	162	THR
1	LU	166	ASN
1	LU	186	LYS
1	LU	194	LEU
1	LU	195	LEU

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Mol	Chain	Res	Type
1	LU	199	GLU
1	LU	202	GLU
1	LU	205	MET
1	LU	215	LYS
1	LU	219	ILE
1	LU	229	GLU
1	LU	230	LEU
1	LU	239	VAL
1	LU	252	LEU
1	LU	271	TYR
1	LU	281	ILE
1	LU	298	LYS
1	LU	303	ASP
1	LU	312	ASP
1	LU	344	LEU
1	LU	372	LEU
1	LU	385	THR
1	LU	398	ASP
1	LU	404	LEU
1	LU	411	ARG
1	LU	413	THR
1	LU	417	ILE
1	LU	419	VAL
1	LU	431	THR
1	LU	450	ILE
1	LU	453	ASN
1	LU	456	TYR
1	LU	460	LYS
1	LU	467	TRP
1	LU	484	VAL
1	LU	495	ASN
1	LU	503	ILE
1	LU	505	LEU
1	LU	517	LEU
1	LU	535	LEU
1	LU	536	TYR
1	LU	540	THR
1	LU	550	ARG
1	LU	553	VAL
1	LU	559	MET
1	LU	564	ILE
1	LU	572	LEU

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Mol	Chain	Res	Type
1	LU	592	LEU
1	LU	596	LYS
1	LU	606	VAL
1	LU	609	ASP
1	LU	626	THR
1	LU	629	ILE
1	LU	650	ASP
1	LU	651	PHE
1	LU	653	GLU
1	LU	655	THR
1	LV	14	THR
1	LV	16	GLN
1	LV	26	THR
1	LV	63	ASP
1	LV	66	MET
1	LV	69	MET
1	LV	80	VAL
1	LV	81	VAL
1	LV	84	VAL
1	LV	88	THR
1	LV	112	VAL
1	LV	130	LYS
1	LV	139	LYS
1	LV	149	LYS
1	LV	166	ASN
1	LV	195	LEU
1	LV	199	GLU
1	LV	205	MET
1	LV	209	ASP
1	LV	219	ILE
1	LV	229	GLU
1	LV	239	VAL
1	LV	260	THR
1	LV	281	ILE
1	LV	290	VAL
1	LV	298	LYS
1	LV	303	ASP
1	LV	317	LYS
1	LV	344	LEU
1	LV	351	THR
1	LV	366	GLU
1	LV	372	LEU

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Mol	Chain	Res	Type
1	LV	385	THR
1	LV	400	ARG
1	LV	401	GLN
1	LV	402	ASP
1	LV	404	LEU
1	LV	406	LEU
1	LV	413	THR
1	LV	417	ILE
1	LV	450	ILE
1	LV	455	LYS
1	LV	456	TYR
1	LV	467	TRP
1	LV	470	LEU
1	LV	482	ASP
1	LV	484	VAL
1	LV	495	ASN
1	LV	503	ILE
1	LV	505	LEU
1	LV	523	ASN
1	LV	534	VAL
1	LV	535	LEU
1	LV	536	TYR
1	LV	550	ARG
1	LV	553	VAL
1	LV	556	LEU
1	LV	559	MET
1	LV	560	LEU
1	LV	562	THR
1	LV	564	ILE
1	LV	572	LEU
1	LV	575	LEU
1	LV	586	THR
1	LV	590	GLN
1	LV	592	LEU
1	LV	596	LYS
1	LV	606	VAL
1	LV	617	VAL
1	LV	650	ASP
1	LV	655	THR
1	LW	15	VAL
1	LW	32	LYS
1	LW	47	GLU

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Mol	Chain	Res	Type
1	LW	58	THR
1	LW	66	MET
1	LW	76	ASN
1	LW	88	THR
1	LW	112	VAL
1	LW	121	VAL
1	LW	123	ASP
1	LW	133	GLU
1	LW	139	LYS
1	LW	140	ILE
1	LW	149	LYS
1	LW	153	LYS
1	LW	157	VAL
1	LW	163	LEU
1	LW	195	LEU
1	LW	202	GLU
1	LW	208	VAL
1	LW	219	ILE
1	LW	223	VAL
1	LW	239	VAL
1	LW	276	ASP
1	LW	281	ILE
1	LW	297	THR
1	LW	298	LYS
1	LW	303	ASP
1	LW	321	GLU
1	LW	344	LEU
1	LW	351	THR
1	LW	357	GLU
1	LW	382	SER
1	LW	383	LEU
1	LW	385	THR
1	LW	398	ASP
1	LW	404	LEU
1	LW	407	CYS
1	LW	413	THR
1	LW	415	VAL
1	LW	417	ILE
1	LW	450	ILE
1	LW	455	LYS
1	LW	459	ASP
1	LW	467	TRP

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Mol	Chain	Res	Type
1	LW	468	VAL
1	LW	470	LEU
1	LW	482	ASP
1	LW	484	VAL
1	LW	487	THR
1	LW	495	ASN
1	LW	502	VAL
1	LW	503	ILE
1	LW	505	LEU
1	LW	517	LEU
1	LW	523	ASN
1	LW	535	LEU
1	LW	536	TYR
1	LW	550	ARG
1	LW	553	VAL
1	LW	556	LEU
1	LW	569	LYS
1	LW	572	LEU
1	LW	586	THR
1	LW	605	ARG
1	LW	606	VAL
1	LW	650	ASP
1	LW	655	THR
1	LX	12	GLU
1	LX	47	GLU
1	LX	66	MET
1	LX	72	LEU
1	LX	81	VAL
1	LX	88	THR
1	LX	112	VAL
1	LX	130	LYS
1	LX	139	LYS
1	LX	141	LYS
1	LX	145	ILE
1	LX	149	LYS
1	LX	151	ILE
1	LX	186	LYS
1	LX	194	LEU
1	LX	195	LEU
1	LX	209	ASP
1	LX	215	LYS
1	LX	219	ILE

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Mol	Chain	Res	Type
1	LX	229	GLU
1	LX	230	LEU
1	LX	239	VAL
1	LX	281	ILE
1	LX	298	LYS
1	LX	299	ARG
1	LX	303	ASP
1	LX	317	LYS
1	LX	344	LEU
1	LX	372	LEU
1	LX	383	LEU
1	LX	398	ASP
1	LX	404	LEU
1	LX	413	THR
1	LX	417	ILE
1	LX	420	THR
1	LX	431	THR
1	LX	450	ILE
1	LX	467	TRP
1	LX	477	LEU
1	LX	487	THR
1	LX	505	LEU
1	LX	509	THR
1	LX	517	LEU
1	LX	523	ASN
1	LX	526	THR
1	LX	535	LEU
1	LX	536	TYR
1	LX	540	THR
1	LX	550	ARG
1	LX	556	LEU
1	LX	559	MET
1	LX	569	LYS
1	LX	572	LEU
1	LX	596	LYS
1	LX	606	VAL
1	LX	617	VAL
1	LX	620	ARG
1	LX	643	VAL
1	LX	650	ASP
1	LX	655	THR
1	LY	32	LYS

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Mol	Chain	Res	Type
1	LY	47	GLU
1	LY	63	ASP
1	LY	66	MET
1	LY	81	VAL
1	LY	84	VAL
1	LY	130	LYS
1	LY	134	VAL
1	LY	139	LYS
1	LY	149	LYS
1	LY	166	ASN
1	LY	178	LEU
1	LY	182	ILE
1	LY	194	LEU
1	LY	195	LEU
1	LY	202	GLU
1	LY	205	MET
1	LY	209	ASP
1	LY	215	LYS
1	LY	290	VAL
1	LY	298	LYS
1	LY	299	ARG
1	LY	303	ASP
1	LY	317	LYS
1	LY	344	LEU
1	LY	366	GLU
1	LY	372	LEU
1	LY	383	LEU
1	LY	398	ASP
1	LY	399	VAL
1	LY	400	ARG
1	LY	401	GLN
1	LY	404	LEU
1	LY	413	THR
1	LY	414	VAL
1	LY	417	ILE
1	LY	450	ILE
1	LY	455	LYS
1	LY	467	TRP
1	LY	482	ASP
1	LY	487	THR
1	LY	495	ASN
1	LY	503	ILE

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Mol	Chain	Res	Type
1	LY	505	LEU
1	LY	517	LEU
1	LY	523	ASN
1	LY	535	LEU
1	LY	540	THR
1	LY	550	ARG
1	LY	551	ILE
1	LY	556	LEU
1	LY	560	LEU
1	LY	564	ILE
1	LY	572	LEU
1	LY	574	GLU
1	LY	577	ASN
1	LY	588	THR
1	LY	592	LEU
1	LY	596	LYS
1	LY	606	VAL
1	LY	612	ASN
1	LY	617	VAL
1	LY	633	ARG
1	LY	650	ASP
1	LZ	14	THR
1	LZ	32	LYS
1	LZ	42	LYS
1	LZ	47	GLU
1	LZ	84	VAL
1	LZ	112	VAL
1	LZ	114	ASP
1	LZ	115	LYS
1	LZ	130	LYS
1	LZ	139	LYS
1	LZ	141	LYS
1	LZ	149	LYS
1	LZ	166	ASN
1	LZ	186	LYS
1	LZ	190	ASP
1	LZ	194	LEU
1	LZ	195	LEU
1	LZ	215	LYS
1	LZ	219	ILE
1	LZ	230	LEU
1	LZ	239	VAL

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Mol	Chain	Res	Type
1	LZ	281	ILE
1	LZ	290	VAL
1	LZ	298	LYS
1	LZ	303	ASP
1	LZ	329	ASN
1	LZ	340	LEU
1	LZ	372	LEU
1	LZ	383	LEU
1	LZ	385	THR
1	LZ	404	LEU
1	LZ	406	LEU
1	LZ	415	VAL
1	LZ	417	ILE
1	LZ	437	THR
1	LZ	450	ILE
1	LZ	456	TYR
1	LZ	467	TRP
1	LZ	470	LEU
1	LZ	487	THR
1	LZ	495	ASN
1	LZ	503	ILE
1	LZ	509	THR
1	LZ	517	LEU
1	LZ	523	ASN
1	LZ	535	LEU
1	LZ	536	TYR
1	LZ	540	THR
1	LZ	542	THR
1	LZ	550	ARG
1	LZ	552	ASN
1	LZ	556	LEU
1	LZ	559	MET
1	LZ	560	LEU
1	LZ	569	LYS
1	LZ	571	ARG
1	LZ	601	ILE
1	LZ	606	VAL
1	LZ	617	VAL
1	LZ	629	ILE
1	La	32	LYS
1	La	47	GLU
1	La	66	MET

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Mol	Chain	Res	Type
1	La	72	LEU
1	La	81	VAL
1	La	84	VAL
1	La	88	THR
1	La	99	ILE
1	La	112	VAL
1	La	130	LYS
1	La	134	VAL
1	La	139	LYS
1	La	141	LYS
1	La	149	LYS
1	La	166	ASN
1	La	171	ILE
1	La	194	LEU
1	La	195	LEU
1	La	202	GLU
1	La	208	VAL
1	La	219	ILE
1	La	230	LEU
1	La	263	SER
1	La	281	ILE
1	La	290	VAL
1	La	298	LYS
1	La	303	ASP
1	La	307	SER
1	La	317	LYS
1	La	344	LEU
1	La	351	THR
1	La	383	LEU
1	La	385	THR
1	La	391	LYS
1	La	398	ASP
1	La	404	LEU
1	La	407	CYS
1	La	413	THR
1	La	417	ILE
1	La	450	ILE
1	La	456	TYR
1	La	466	ARG
1	La	467	TRP
1	La	470	LEU
1	La	495	ASN

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Mol	Chain	Res	Type
1	La	503	ILE
1	La	505	LEU
1	La	535	LEU
1	La	536	TYR
1	La	542	THR
1	La	550	ARG
1	La	560	LEU
1	La	572	LEU
1	La	592	LEU
1	La	606	VAL
1	La	610	THR
1	La	617	VAL
1	La	621	ASN
1	La	629	ILE
1	La	633	ARG
1	La	653	GLU
1	La	654	LEU
1	La	655	THR
1	Lb	32	LYS
1	Lb	47	GLU
1	Lb	49	ASP
1	Lb	66	MET
1	Lb	72	LEU
1	Lb	80	VAL
1	Lb	84	VAL
1	Lb	88	THR
1	Lb	130	LYS
1	Lb	139	LYS
1	Lb	149	LYS
1	Lb	194	LEU
1	Lb	195	LEU
1	Lb	199	GLU
1	Lb	202	GLU
1	Lb	219	ILE
1	Lb	275	THR
1	Lb	290	VAL
1	Lb	298	LYS
1	Lb	299	ARG
1	Lb	302	LYS
1	Lb	303	ASP
1	Lb	304	ILE
1	Lb	311	ILE

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Mol	Chain	Res	Type
1	Lb	317	LYS
1	Lb	344	LEU
1	Lb	385	THR
1	Lb	387	SER
1	Lb	398	ASP
1	Lb	399	VAL
1	Lb	400	ARG
1	Lb	404	LEU
1	Lb	413	THR
1	Lb	417	ILE
1	Lb	430	ARG
1	Lb	446	THR
1	Lb	450	ILE
1	Lb	455	LYS
1	Lb	466	ARG
1	Lb	467	TRP
1	Lb	468	VAL
1	Lb	470	LEU
1	Lb	495	ASN
1	Lb	503	ILE
1	Lb	505	LEU
1	Lb	523	ASN
1	Lb	526	THR
1	Lb	536	TYR
1	Lb	540	THR
1	Lb	550	ARG
1	Lb	564	ILE
1	Lb	569	LYS
1	Lb	572	LEU
1	Lb	592	LEU
1	Lb	605	ARG
1	Lb	606	VAL
1	Lb	610	THR
1	Lb	612	ASN
1	Lb	613	ASN
1	Lb	614	THR
1	Lb	617	VAL
1	Lb	624	VAL
1	Lb	629	ILE
1	Lb	653	GLU
1	Lb	655	THR
1	Lc	14	THR

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Mol	Chain	Res	Type
1	Lc	45	THR
1	Lc	66	MET
1	Lc	72	LEU
1	Lc	76	ASN
1	Lc	80	VAL
1	Lc	88	THR
1	Lc	91	ASN
1	Lc	112	VAL
1	Lc	116	ILE
1	Lc	119	LYS
1	Lc	124	ASP
1	Lc	133	GLU
1	Lc	139	LYS
1	Lc	149	LYS
1	Lc	166	ASN
1	Lc	186	LYS
1	Lc	188	ILE
1	Lc	194	LEU
1	Lc	202	GLU
1	Lc	215	LYS
1	Lc	219	ILE
1	Lc	223	VAL
1	Lc	229	GLU
1	Lc	243	ASP
1	Lc	271	TYR
1	Lc	290	VAL
1	Lc	298	LYS
1	Lc	303	ASP
1	Lc	344	LEU
1	Lc	372	LEU
1	Lc	382	SER
1	Lc	385	THR
1	Lc	398	ASP
1	Lc	404	LEU
1	Lc	413	THR
1	Lc	417	ILE
1	Lc	420	THR
1	Lc	430	ARG
1	Lc	440	ASN
1	Lc	446	THR
1	Lc	450	ILE
1	Lc	456	TYR

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Mol	Chain	Res	Type
1	Lc	467	TRP
1	Lc	468	VAL
1	Lc	487	THR
1	Lc	503	ILE
1	Lc	517	LEU
1	Lc	523	ASN
1	Lc	536	TYR
1	Lc	550	ARG
1	Lc	564	ILE
1	Lc	569	LYS
1	Lc	572	LEU
1	Lc	590	GLN
1	Lc	592	LEU
1	Lc	596	LYS
1	Lc	601	ILE
1	Lc	606	VAL
1	Lc	617	VAL
1	Lc	629	ILE
1	Lc	637	TYR
1	Ld	8	ILE
1	Ld	14	THR
1	Ld	32	LYS
1	Ld	47	GLU
1	Ld	66	MET
1	Ld	79	ARG
1	Ld	80	VAL
1	Ld	85	ASP
1	Ld	86	ARG
1	Ld	130	LYS
1	Ld	139	LYS
1	Ld	149	LYS
1	Ld	171	ILE
1	Ld	178	LEU
1	Ld	186	LYS
1	Ld	189	THR
1	Ld	190	ASP
1	Ld	195	LEU
1	Ld	208	VAL
1	Ld	209	ASP
1	Ld	215	LYS
1	Ld	219	ILE
1	Ld	230	LEU

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Mol	Chain	Res	Type
1	Ld	235	GLU
1	Ld	275	THR
1	Ld	290	VAL
1	Ld	298	LYS
1	Ld	303	ASP
1	Ld	317	LYS
1	Ld	344	LEU
1	Ld	365	ARG
1	Ld	383	LEU
1	Ld	391	LYS
1	Ld	396	ILE
1	Ld	404	LEU
1	Ld	411	ARG
1	Ld	413	THR
1	Ld	417	ILE
1	Ld	430	ARG
1	Ld	438	ASP
1	Ld	450	ILE
1	Ld	453	ASN
1	Ld	454	TYR
1	Ld	467	TRP
1	Ld	470	LEU
1	Ld	484	VAL
1	Ld	503	ILE
1	Ld	505	LEU
1	Ld	517	LEU
1	Ld	535	LEU
1	Ld	536	TYR
1	Ld	550	ARG
1	Ld	551	ILE
1	Ld	553	VAL
1	Ld	556	LEU
1	Ld	564	ILE
1	Ld	569	LYS
1	Ld	590	GLN
1	Ld	592	LEU
1	Ld	601	ILE
1	Ld	606	VAL
1	Ld	617	VAL
1	Ld	619	ASP
1	Ld	650	ASP
1	Le	14	THR

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Mol	Chain	Res	Type
1	Le	32	LYS
1	Le	34	GLN
1	Le	66	MET
1	Le	88	THR
1	Le	112	VAL
1	Le	121	VAL
1	Le	130	LYS
1	Le	139	LYS
1	Le	141	LYS
1	Le	166	ASN
1	Le	171	ILE
1	Le	194	LEU
1	Le	195	LEU
1	Le	199	GLU
1	Le	202	GLU
1	Le	209	ASP
1	Le	219	ILE
1	Le	229	GLU
1	Le	255	TYR
1	Le	271	TYR
1	Le	290	VAL
1	Le	298	LYS
1	Le	299	ARG
1	Le	303	ASP
1	Le	317	LYS
1	Le	344	LEU
1	Le	385	THR
1	Le	396	ILE
1	Le	398	ASP
1	Le	400	ARG
1	Le	404	LEU
1	Le	414	VAL
1	Le	417	ILE
1	Le	430	ARG
1	Le	439	ASN
1	Le	450	ILE
1	Le	453	ASN
1	Le	456	TYR
1	Le	473	ASP
1	Le	484	VAL
1	Le	487	THR
1	Le	503	ILE

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Mol	Chain	Res	Type
1	Le	505	LEU
1	Le	535	LEU
1	Le	536	TYR
1	Le	542	THR
1	Le	550	ARG
1	Le	552	ASN
1	Le	553	VAL
1	Le	556	LEU
1	Le	564	ILE
1	Le	569	LYS
1	Le	572	LEU
1	Le	592	LEU
1	Le	596	LYS
1	Le	605	ARG
1	Le	606	VAL
1	Le	624	VAL
1	Le	655	THR
1	Lv	32	LYS
1	Lv	42	LYS
1	Lv	47	GLU
1	Lv	66	MET
1	Lv	72	LEU
1	Lv	88	THR
1	Lv	92	SER
1	Lv	112	VAL
1	Lv	114	ASP
1	Lv	137	ASP
1	Lv	139	LYS
1	Lv	149	LYS
1	Lv	166	ASN
1	Lv	186	LYS
1	Lv	195	LEU
1	Lv	199	GLU
1	Lv	202	GLU
1	Lv	205	MET
1	Lv	219	ILE
1	Lv	252	LEU
1	Lv	289	ILE
1	Lv	290	VAL
1	Lv	298	LYS
1	Lv	299	ARG
1	Lv	303	ASP

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Mol	Chain	Res	Type
1	Lv	321	GLU
1	Lv	344	LEU
1	Lv	354	ASP
1	Lv	357	GLU
1	Lv	383	LEU
1	Lv	398	ASP
1	Lv	404	LEU
1	Lv	413	THR
1	Lv	417	ILE
1	Lv	426	LEU
1	Lv	430	ARG
1	Lv	437	THR
1	Lv	453	ASN
1	Lv	467	TRP
1	Lv	468	VAL
1	Lv	470	LEU
1	Lv	484	VAL
1	Lv	503	ILE
1	Lv	523	ASN
1	Lv	535	LEU
1	Lv	536	TYR
1	Lv	540	THR
1	Lv	544	VAL
1	Lv	550	ARG
1	Lv	560	LEU
1	Lv	572	LEU
1	Lv	574	GLU
1	Lv	590	GLN
1	Lv	606	VAL
1	Lv	650	ASP
1	Lv	651	PHE
1	Lv	655	THR
1	Lw	32	LYS
1	Lw	47	GLU
1	Lw	66	MET
1	Lw	69	MET
1	Lw	72	LEU
1	Lw	81	VAL
1	Lw	86	ARG
1	Lw	91	ASN
1	Lw	112	VAL
1	Lw	130	LYS

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Mol	Chain	Res	Type
1	Lw	147	THR
1	Lw	149	LYS
1	Lw	178	LEU
1	Lw	186	LYS
1	Lw	190	ASP
1	Lw	194	LEU
1	Lw	195	LEU
1	Lw	202	GLU
1	Lw	205	MET
1	Lw	209	ASP
1	Lw	215	LYS
1	Lw	219	ILE
1	Lw	229	GLU
1	Lw	239	VAL
1	Lw	261	ARG
1	Lw	271	TYR
1	Lw	290	VAL
1	Lw	298	LYS
1	Lw	303	ASP
1	Lw	304	ILE
1	Lw	344	LEU
1	Lw	366	GLU
1	Lw	383	LEU
1	Lw	385	THR
1	Lw	396	ILE
1	Lw	398	ASP
1	Lw	400	ARG
1	Lw	404	LEU
1	Lw	406	LEU
1	Lw	415	VAL
1	Lw	417	ILE
1	Lw	437	THR
1	Lw	438	ASP
1	Lw	450	ILE
1	Lw	451	ASP
1	Lw	459	ASP
1	Lw	462	ASN
1	Lw	467	TRP
1	Lw	503	ILE
1	Lw	505	LEU
1	Lw	517	LEU
1	Lw	523	ASN

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Mol	Chain	Res	Type
1	Lw	534	VAL
1	Lw	535	LEU
1	Lw	536	TYR
1	Lw	539	LYS
1	Lw	540	THR
1	Lw	542	THR
1	Lw	550	ARG
1	Lw	553	VAL
1	Lw	559	MET
1	Lw	560	LEU
1	Lw	564	ILE
1	Lw	572	LEU
1	Lw	592	LEU
1	Lw	596	LYS
1	Lw	606	VAL
1	Lw	629	ILE
1	Lw	650	ASP
1	Lw	655	THR
1	Lx	10	LEU
1	Lx	32	LYS
1	Lx	35	TRP
1	Lx	47	GLU
1	Lx	58	THR
1	Lx	66	MET
1	Lx	69	MET
1	Lx	72	LEU
1	Lx	81	VAL
1	Lx	88	THR
1	Lx	91	ASN
1	Lx	112	VAL
1	Lx	116	ILE
1	Lx	118	VAL
1	Lx	130	LYS
1	Lx	139	LYS
1	Lx	141	LYS
1	Lx	149	LYS
1	Lx	166	ASN
1	Lx	178	LEU
1	Lx	186	LYS
1	Lx	194	LEU
1	Lx	195	LEU
1	Lx	205	MET

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Mol	Chain	Res	Type
1	Lx	208	VAL
1	Lx	219	ILE
1	Lx	239	VAL
1	Lx	281	ILE
1	Lx	290	VAL
1	Lx	298	LYS
1	Lx	303	ASP
1	Lx	306	ASP
1	Lx	344	LEU
1	Lx	357	GLU
1	Lx	383	LEU
1	Lx	384	GLU
1	Lx	385	THR
1	Lx	404	LEU
1	Lx	407	CYS
1	Lx	415	VAL
1	Lx	417	ILE
1	Lx	430	ARG
1	Lx	450	ILE
1	Lx	453	ASN
1	Lx	456	TYR
1	Lx	466	ARG
1	Lx	467	TRP
1	Lx	468	VAL
1	Lx	470	LEU
1	Lx	484	VAL
1	Lx	487	THR
1	Lx	495	ASN
1	Lx	503	ILE
1	Lx	505	LEU
1	Lx	517	LEU
1	Lx	523	ASN
1	Lx	535	LEU
1	Lx	536	TYR
1	Lx	540	THR
1	Lx	550	ARG
1	Lx	553	VAL
1	Lx	556	LEU
1	Lx	564	ILE
1	Lx	569	LYS
1	Lx	572	LEU
1	Lx	592	LEU

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Mol	Chain	Res	Type
1	Lx	606	VAL
1	Lx	612	ASN
1	Lx	617	VAL
1	Lx	650	ASP
1	Lz	8	ILE
1	Lz	14	THR
1	Lz	22	ASN
1	Lz	42	LYS
1	Lz	47	GLU
1	Lz	66	MET
1	Lz	72	LEU
1	Lz	78	LEU
1	Lz	80	VAL
1	Lz	84	VAL
1	Lz	88	THR
1	Lz	109	ASN
1	Lz	112	VAL
1	Lz	139	LYS
1	Lz	145	ILE
1	Lz	149	LYS
1	Lz	162	THR
1	Lz	166	ASN
1	Lz	182	ILE
1	Lz	186	LYS
1	Lz	195	LEU
1	Lz	199	GLU
1	Lz	205	MET
1	Lz	219	ILE
1	Lz	251	LEU
1	Lz	271	TYR
1	Lz	281	ILE
1	Lz	298	LYS
1	Lz	299	ARG
1	Lz	303	ASP
1	Lz	304	ILE
1	Lz	317	LYS
1	Lz	344	LEU
1	Lz	372	LEU
1	Lz	384	GLU
1	Lz	385	THR
1	Lz	404	LEU
1	Lz	413	THR

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Mol	Chain	Res	Type
1	Lz	417	ILE
1	Lz	430	ARG
1	Lz	437	THR
1	Lz	438	ASP
1	Lz	446	THR
1	Lz	450	ILE
1	Lz	453	ASN
1	Lz	466	ARG
1	Lz	467	TRP
1	Lz	468	VAL
1	Lz	477	LEU
1	Lz	487	THR
1	Lz	503	ILE
1	Lz	505	LEU
1	Lz	523	ASN
1	Lz	531	ASP
1	Lz	535	LEU
1	Lz	536	TYR
1	Lz	542	THR
1	Lz	550	ARG
1	Lz	551	ILE
1	Lz	553	VAL
1	Lz	572	LEU
1	Lz	573	PHE
1	Lz	582	SER
1	Lz	596	LYS
1	Lz	606	VAL
1	Lz	617	VAL
1	Lz	629	ILE
1	Lz	636	ASN
1	Lz	639	THR
1	Lz	650	ASP
1	M0	14	THR
1	M0	32	LYS
1	M0	49	ASP
1	M0	66	MET
1	M0	72	LEU
1	M0	80	VAL
1	M0	88	THR
1	M0	112	VAL
1	M0	130	LYS
1	M0	139	LYS

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Mol	Chain	Res	Type
1	M0	149	LYS
1	M0	151	ILE
1	M0	166	ASN
1	M0	171	ILE
1	M0	194	LEU
1	M0	195	LEU
1	M0	202	GLU
1	M0	219	ILE
1	M0	222	VAL
1	M0	229	GLU
1	M0	239	VAL
1	M0	255	TYR
1	M0	268	VAL
1	M0	271	TYR
1	M0	290	VAL
1	M0	298	LYS
1	M0	303	ASP
1	M0	317	LYS
1	M0	332	GLU
1	M0	344	LEU
1	M0	364	ASP
1	M0	366	GLU
1	M0	383	LEU
1	M0	404	LEU
1	M0	413	THR
1	M0	414	VAL
1	M0	417	ILE
1	M0	430	ARG
1	M0	450	ILE
1	M0	456	TYR
1	M0	477	LEU
1	M0	483	ASN
1	M0	487	THR
1	M0	499	ILE
1	M0	503	ILE
1	M0	518	TYR
1	M0	535	LEU
1	M0	536	TYR
1	M0	539	LYS
1	M0	540	THR
1	M0	550	ARG
1	M0	553	VAL

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Mol	Chain	Res	Type
1	M0	556	LEU
1	M0	560	LEU
1	M0	562	THR
1	M0	564	ILE
1	M0	572	LEU
1	M0	580	THR
1	M0	586	THR
1	M0	592	LEU
1	M0	596	LYS
1	M0	602	TYR
1	M0	606	VAL
1	M0	624	VAL
1	M0	629	ILE
1	M1	14	THR
1	M1	32	LYS
1	M1	63	ASP
1	M1	66	MET
1	M1	69	MET
1	M1	80	VAL
1	M1	81	VAL
1	M1	84	VAL
1	M1	88	THR
1	M1	109	ASN
1	M1	112	VAL
1	M1	130	LYS
1	M1	139	LYS
1	M1	149	LYS
1	M1	166	ASN
1	M1	186	LYS
1	M1	193	ILE
1	M1	195	LEU
1	M1	202	GLU
1	M1	215	LYS
1	M1	219	ILE
1	M1	223	VAL
1	M1	243	ASP
1	M1	271	TYR
1	M1	281	ILE
1	M1	290	VAL
1	M1	302	LYS
1	M1	303	ASP
1	M1	317	LYS

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Mol	Chain	Res	Type
1	M1	339	THR
1	M1	344	LEU
1	M1	366	GLU
1	M1	370	VAL
1	M1	372	LEU
1	M1	383	LEU
1	M1	385	THR
1	M1	400	ARG
1	M1	402	ASP
1	M1	412	GLU
1	M1	413	THR
1	M1	417	ILE
1	M1	436	TYR
1	M1	450	ILE
1	M1	453	ASN
1	M1	456	TYR
1	M1	467	TRP
1	M1	470	LEU
1	M1	484	VAL
1	M1	495	ASN
1	M1	503	ILE
1	M1	505	LEU
1	M1	517	LEU
1	M1	523	ASN
1	M1	531	ASP
1	M1	535	LEU
1	M1	536	TYR
1	M1	540	THR
1	M1	550	ARG
1	M1	551	ILE
1	M1	553	VAL
1	M1	556	LEU
1	M1	559	MET
1	M1	572	LEU
1	M1	592	LEU
1	M1	606	VAL
1	M1	617	VAL
1	M1	626	THR
1	M2	14	THR
1	M2	18	THR
1	M2	24	THR
1	M2	32	LYS

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Mol	Chain	Res	Type
1	M2	66	MET
1	M2	72	LEU
1	M2	81	VAL
1	M2	84	VAL
1	M2	88	THR
1	M2	104	SER
1	M2	112	VAL
1	M2	121	VAL
1	M2	130	LYS
1	M2	134	VAL
1	M2	139	LYS
1	M2	141	LYS
1	M2	149	LYS
1	M2	166	ASN
1	M2	194	LEU
1	M2	198	ILE
1	M2	199	GLU
1	M2	202	GLU
1	M2	215	LYS
1	M2	219	ILE
1	M2	239	VAL
1	M2	255	TYR
1	M2	271	TYR
1	M2	281	ILE
1	M2	290	VAL
1	M2	298	LYS
1	M2	299	ARG
1	M2	303	ASP
1	M2	317	LYS
1	M2	344	LEU
1	M2	351	THR
1	M2	366	GLU
1	M2	378	CYS
1	M2	383	LEU
1	M2	385	THR
1	M2	398	ASP
1	M2	404	LEU
1	M2	407	CYS
1	M2	413	THR
1	M2	417	ILE
1	M2	455	LYS
1	M2	456	TYR

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Mol	Chain	Res	Type
1	M2	477	LEU
1	M2	482	ASP
1	M2	484	VAL
1	M2	487	THR
1	M2	495	ASN
1	M2	503	ILE
1	M2	505	LEU
1	M2	517	LEU
1	M2	535	LEU
1	M2	536	TYR
1	M2	542	THR
1	M2	550	ARG
1	M2	553	VAL
1	M2	569	LYS
1	M2	572	LEU
1	M2	606	VAL
1	M2	624	VAL
1	M2	629	ILE
1	M2	650	ASP
1	M3	32	LYS
1	M3	42	LYS
1	M3	47	GLU
1	M3	66	MET
1	M3	80	VAL
1	M3	81	VAL
1	M3	84	VAL
1	M3	91	ASN
1	M3	109	ASN
1	M3	112	VAL
1	M3	139	LYS
1	M3	149	LYS
1	M3	171	ILE
1	M3	194	LEU
1	M3	195	LEU
1	M3	200	ASN
1	M3	202	GLU
1	M3	208	VAL
1	M3	219	ILE
1	M3	229	GLU
1	M3	230	LEU
1	M3	239	VAL
1	M3	260	THR

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Mol	Chain	Res	Type
1	M3	290	VAL
1	M3	298	LYS
1	M3	303	ASP
1	M3	321	GLU
1	M3	344	LEU
1	M3	350	VAL
1	M3	351	THR
1	M3	383	LEU
1	M3	385	THR
1	M3	404	LEU
1	M3	413	THR
1	M3	414	VAL
1	M3	415	VAL
1	M3	417	ILE
1	M3	450	ILE
1	M3	460	LYS
1	M3	467	TRP
1	M3	477	LEU
1	M3	505	LEU
1	M3	517	LEU
1	M3	535	LEU
1	M3	536	TYR
1	M3	540	THR
1	M3	550	ARG
1	M3	553	VAL
1	M3	569	LYS
1	M3	571	ARG
1	M3	590	GLN
1	M3	629	ILE
1	M3	650	ASP
1	M3	651	PHE
1	M3	655	THR
1	M4	14	THR
1	M4	32	LYS
1	M4	42	LYS
1	M4	53	THR
1	M4	63	ASP
1	M4	66	MET
1	M4	72	LEU
1	M4	85	ASP
1	M4	112	VAL
1	M4	130	LYS

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Mol	Chain	Res	Type
1	M4	139	LYS
1	M4	149	LYS
1	M4	183	THR
1	M4	186	LYS
1	M4	202	GLU
1	M4	223	VAL
1	M4	229	GLU
1	M4	230	LEU
1	M4	290	VAL
1	M4	298	LYS
1	M4	303	ASP
1	M4	317	LYS
1	M4	344	LEU
1	M4	366	GLU
1	M4	372	LEU
1	M4	383	LEU
1	M4	385	THR
1	M4	404	LEU
1	M4	413	THR
1	M4	417	ILE
1	M4	430	ARG
1	M4	446	THR
1	M4	450	ILE
1	M4	460	LYS
1	M4	467	TRP
1	M4	470	LEU
1	M4	482	ASP
1	M4	487	THR
1	M4	495	ASN
1	M4	499	ILE
1	M4	503	ILE
1	M4	505	LEU
1	M4	523	ASN
1	M4	534	VAL
1	M4	535	LEU
1	M4	540	THR
1	M4	544	VAL
1	M4	550	ARG
1	M4	551	ILE
1	M4	556	LEU
1	M4	559	MET
1	M4	564	ILE

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Mol	Chain	Res	Type
1	M4	569	LYS
1	M4	572	LEU
1	M4	580	THR
1	M4	592	LEU
1	M4	606	VAL
1	M4	633	ARG
1	M4	650	ASP
1	M4	655	THR
1	M5	14	THR
1	M5	26	THR
1	M5	47	GLU
1	M5	49	ASP
1	M5	66	MET
1	M5	72	LEU
1	M5	88	THR
1	M5	112	VAL
1	M5	121	VAL
1	M5	139	LYS
1	M5	141	LYS
1	M5	149	LYS
1	M5	178	LEU
1	M5	186	LYS
1	M5	194	LEU
1	M5	195	LEU
1	M5	199	GLU
1	M5	205	MET
1	M5	208	VAL
1	M5	219	ILE
1	M5	230	LEU
1	M5	239	VAL
1	M5	281	ILE
1	M5	290	VAL
1	M5	298	LYS
1	M5	303	ASP
1	M5	344	LEU
1	M5	369	ASP
1	M5	372	LEU
1	M5	385	THR
1	M5	398	ASP
1	M5	404	LEU
1	M5	406	LEU
1	M5	407	CYS

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Mol	Chain	Res	Type
1	M5	415	VAL
1	M5	417	ILE
1	M5	450	ILE
1	M5	456	TYR
1	M5	467	TRP
1	M5	482	ASP
1	M5	484	VAL
1	M5	487	THR
1	M5	495	ASN
1	M5	503	ILE
1	M5	505	LEU
1	M5	523	ASN
1	M5	528	THR
1	M5	535	LEU
1	M5	536	TYR
1	M5	538	ASP
1	M5	540	THR
1	M5	542	THR
1	M5	550	ARG
1	M5	553	VAL
1	M5	569	LYS
1	M5	572	LEU
1	M5	580	THR
1	M5	590	GLN
1	M5	592	LEU
1	M5	606	VAL
1	M5	639	THR
1	M5	650	ASP
1	M6	32	LYS
1	M6	47	GLU
1	M6	66	MET
1	M6	72	LEU
1	M6	80	VAL
1	M6	81	VAL
1	M6	84	VAL
1	M6	86	ARG
1	M6	88	THR
1	M6	130	LYS
1	M6	139	LYS
1	M6	166	ASN
1	M6	178	LEU
1	M6	194	LEU

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Mol	Chain	Res	Type
1	M6	195	LEU
1	M6	199	GLU
1	M6	202	GLU
1	M6	209	ASP
1	M6	219	ILE
1	M6	239	VAL
1	M6	275	THR
1	M6	281	ILE
1	M6	290	VAL
1	M6	296	SER
1	M6	298	LYS
1	M6	303	ASP
1	M6	313	ASP
1	M6	321	GLU
1	M6	366	GLU
1	M6	383	LEU
1	M6	385	THR
1	M6	404	LEU
1	M6	417	ILE
1	M6	437	THR
1	M6	444	SER
1	M6	445	SER
1	M6	450	ILE
1	M6	453	ASN
1	M6	466	ARG
1	M6	467	TRP
1	M6	483	ASN
1	M6	487	THR
1	M6	495	ASN
1	M6	503	ILE
1	M6	505	LEU
1	M6	509	THR
1	M6	535	LEU
1	M6	536	TYR
1	M6	540	THR
1	M6	542	THR
1	M6	550	ARG
1	M6	572	LEU
1	M6	592	LEU
1	M6	596	LYS
1	M6	601	ILE
1	M6	606	VAL

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Mol	Chain	Res	Type
1	M6	612	ASN
1	M6	617	VAL
1	M6	626	THR
1	M6	629	ILE
1	M6	651	PHE
1	M6	655	THR
1	M7	32	LYS
1	M7	41	ILE
1	M7	63	ASP
1	M7	66	MET
1	M7	72	LEU
1	M7	112	VAL
1	M7	130	LYS
1	M7	139	LYS
1	M7	141	LYS
1	M7	149	LYS
1	M7	166	ASN
1	M7	186	LYS
1	M7	194	LEU
1	M7	199	GLU
1	M7	202	GLU
1	M7	208	VAL
1	M7	213	ASN
1	M7	215	LYS
1	M7	219	ILE
1	M7	223	VAL
1	M7	230	LEU
1	M7	290	VAL
1	M7	298	LYS
1	M7	299	ARG
1	M7	303	ASP
1	M7	304	ILE
1	M7	344	LEU
1	M7	383	LEU
1	M7	385	THR
1	M7	400	ARG
1	M7	404	LEU
1	M7	411	ARG
1	M7	413	THR
1	M7	415	VAL
1	M7	417	ILE
1	M7	430	ARG

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Mol	Chain	Res	Type
1	M7	450	ILE
1	M7	451	ASP
1	M7	455	LYS
1	M7	459	ASP
1	M7	467	TRP
1	M7	470	LEU
1	M7	484	VAL
1	M7	487	THR
1	M7	503	ILE
1	M7	505	LEU
1	M7	517	LEU
1	M7	523	ASN
1	M7	535	LEU
1	M7	536	TYR
1	M7	540	THR
1	M7	550	ARG
1	M7	556	LEU
1	M7	559	MET
1	M7	560	LEU
1	M7	564	ILE
1	M7	569	LYS
1	M7	572	LEU
1	M7	582	SER
1	M7	592	LEU
1	M7	596	LYS
1	M7	606	VAL
1	M7	610	THR
1	M7	617	VAL
1	M7	629	ILE
1	M7	650	ASP
1	M7	655	THR
1	M8	24	THR
1	M8	32	LYS
1	M8	43	GLN
1	M8	47	GLU
1	M8	66	MET
1	M8	72	LEU
1	M8	81	VAL
1	M8	84	VAL
1	M8	88	THR
1	M8	91	ASN
1	M8	112	VAL

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Mol	Chain	Res	Type
1	M8	130	LYS
1	M8	139	LYS
1	M8	149	LYS
1	M8	153	LYS
1	M8	166	ASN
1	M8	195	LEU
1	M8	199	GLU
1	M8	202	GLU
1	M8	205	MET
1	M8	219	ILE
1	M8	229	GLU
1	M8	239	VAL
1	M8	264	THR
1	M8	275	THR
1	M8	290	VAL
1	M8	298	LYS
1	M8	303	ASP
1	M8	306	ASP
1	M8	372	LEU
1	M8	382	SER
1	M8	383	LEU
1	M8	385	THR
1	M8	398	ASP
1	M8	400	ARG
1	M8	404	LEU
1	M8	413	THR
1	M8	417	ILE
1	M8	450	ILE
1	M8	467	TRP
1	M8	470	LEU
1	M8	483	ASN
1	M8	495	ASN
1	M8	503	ILE
1	M8	505	LEU
1	M8	517	LEU
1	M8	523	ASN
1	M8	534	VAL
1	M8	535	LEU
1	M8	536	TYR
1	M8	550	ARG
1	M8	569	LYS
1	M8	572	LEU

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Mol	Chain	Res	Type
1	M8	574	GLU
1	M8	606	VAL
1	M8	617	VAL
1	M9	14	THR
1	M9	26	THR
1	M9	32	LYS
1	M9	47	GLU
1	M9	66	MET
1	M9	72	LEU
1	M9	80	VAL
1	M9	85	ASP
1	M9	88	THR
1	M9	91	ASN
1	M9	109	ASN
1	M9	112	VAL
1	M9	114	ASP
1	M9	130	LYS
1	M9	133	GLU
1	M9	139	LYS
1	M9	149	LYS
1	M9	163	LEU
1	M9	166	ASN
1	M9	178	LEU
1	M9	181	VAL
1	M9	194	LEU
1	M9	195	LEU
1	M9	199	GLU
1	M9	202	GLU
1	M9	219	ILE
1	M9	230	LEU
1	M9	236	ILE
1	M9	290	VAL
1	M9	298	LYS
1	M9	303	ASP
1	M9	321	GLU
1	M9	344	LEU
1	M9	391	LYS
1	M9	404	LEU
1	M9	413	THR
1	M9	414	VAL
1	M9	417	ILE
1	M9	430	ARG

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Mol	Chain	Res	Type
1	M9	431	THR
1	M9	438	ASP
1	M9	454	TYR
1	M9	467	TRP
1	M9	470	LEU
1	M9	523	ASN
1	M9	535	LEU
1	M9	536	TYR
1	M9	550	ARG
1	M9	551	ILE
1	M9	553	VAL
1	M9	556	LEU
1	M9	590	GLN
1	M9	592	LEU
1	M9	601	ILE
1	M9	606	VAL
1	M9	624	VAL
1	M9	629	ILE
1	M9	655	THR
1	MQ	14	THR
1	MQ	15	VAL
1	MQ	16	GLN
1	MQ	32	LYS
1	MQ	66	MET
1	MQ	72	LEU
1	MQ	84	VAL
1	MQ	86	ARG
1	MQ	88	THR
1	MQ	91	ASN
1	MQ	112	VAL
1	MQ	116	ILE
1	MQ	130	LYS
1	MQ	133	GLU
1	MQ	134	VAL
1	MQ	139	LYS
1	MQ	149	LYS
1	MQ	153	LYS
1	MQ	170	GLU
1	MQ	186	LYS
1	MQ	202	GLU
1	MQ	215	LYS
1	MQ	219	ILE

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Mol	Chain	Res	Type
1	MQ	235	GLU
1	MQ	239	VAL
1	MQ	290	VAL
1	MQ	298	LYS
1	MQ	303	ASP
1	MQ	326	THR
1	MQ	365	ARG
1	MQ	370	VAL
1	MQ	378	CYS
1	MQ	382	SER
1	MQ	383	LEU
1	MQ	385	THR
1	MQ	406	LEU
1	MQ	417	ILE
1	MQ	450	ILE
1	MQ	456	TYR
1	MQ	464	VAL
1	MQ	467	TRP
1	MQ	470	LEU
1	MQ	483	ASN
1	MQ	484	VAL
1	MQ	487	THR
1	MQ	495	ASN
1	MQ	503	ILE
1	MQ	526	THR
1	MQ	535	LEU
1	MQ	536	TYR
1	MQ	540	THR
1	MQ	550	ARG
1	MQ	551	ILE
1	MQ	556	LEU
1	MQ	601	ILE
1	MQ	606	VAL
1	MQ	609	ASP
1	MQ	614	THR
1	MQ	619	ASP
1	MQ	650	ASP
1	MQ	651	PHE
1	MQ	655	THR
1	MR	14	THR
1	MR	47	GLU
1	MR	53	THR

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Mol	Chain	Res	Type
1	MR	66	MET
1	MR	72	LEU
1	MR	84	VAL
1	MR	88	THR
1	MR	112	VAL
1	MR	116	ILE
1	MR	126	GLU
1	MR	130	LYS
1	MR	139	LYS
1	MR	149	LYS
1	MR	163	LEU
1	MR	166	ASN
1	MR	178	LEU
1	MR	186	LYS
1	MR	195	LEU
1	MR	202	GLU
1	MR	208	VAL
1	MR	209	ASP
1	MR	215	LYS
1	MR	219	ILE
1	MR	229	GLU
1	MR	281	ILE
1	MR	290	VAL
1	MR	298	LYS
1	MR	303	ASP
1	MR	326	THR
1	MR	344	LEU
1	MR	382	SER
1	MR	383	LEU
1	MR	385	THR
1	MR	398	ASP
1	MR	413	THR
1	MR	417	ILE
1	MR	440	ASN
1	MR	455	LYS
1	MR	456	TYR
1	MR	467	TRP
1	MR	470	LEU
1	MR	487	THR
1	MR	503	ILE
1	MR	505	LEU
1	MR	523	ASN

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Mol	Chain	Res	Type
1	MR	535	LEU
1	MR	536	TYR
1	MR	539	LYS
1	MR	540	THR
1	MR	550	ARG
1	MR	553	VAL
1	MR	569	LYS
1	MR	571	ARG
1	MR	572	LEU
1	MR	596	LYS
1	MR	606	VAL
1	MR	609	ASP
1	MR	610	THR
1	MR	624	VAL
1	MR	650	ASP
1	MR	653	GLU
1	MS	26	THR
1	MS	32	LYS
1	MS	42	LYS
1	MS	66	MET
1	MS	72	LEU
1	MS	88	THR
1	MS	91	ASN
1	MS	102	THR
1	MS	112	VAL
1	MS	130	LYS
1	MS	139	LYS
1	MS	141	LYS
1	MS	149	LYS
1	MS	151	ILE
1	MS	166	ASN
1	MS	186	LYS
1	MS	194	LEU
1	MS	195	LEU
1	MS	202	GLU
1	MS	219	ILE
1	MS	223	VAL
1	MS	239	VAL
1	MS	289	ILE
1	MS	290	VAL
1	MS	297	THR
1	MS	298	LYS

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Mol	Chain	Res	Type
1	MS	303	ASP
1	MS	344	LEU
1	MS	372	LEU
1	MS	383	LEU
1	MS	398	ASP
1	MS	404	LEU
1	MS	413	THR
1	MS	415	VAL
1	MS	417	ILE
1	MS	421	ARG
1	MS	438	ASP
1	MS	439	ASN
1	MS	450	ILE
1	MS	467	TRP
1	MS	468	VAL
1	MS	470	LEU
1	MS	487	THR
1	MS	495	ASN
1	MS	503	ILE
1	MS	505	LEU
1	MS	517	LEU
1	MS	536	TYR
1	MS	538	ASP
1	MS	550	ARG
1	MS	553	VAL
1	MS	569	LYS
1	MS	583	SER
1	MS	590	GLN
1	MS	592	LEU
1	MS	606	VAL
1	MS	617	VAL
1	MS	624	VAL
1	MS	629	ILE
1	MS	650	ASP
1	MS	653	GLU
1	MS	655	THR
1	MU	32	LYS
1	MU	42	LYS
1	MU	47	GLU
1	MU	60	GLU
1	MU	66	MET
1	MU	72	LEU

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Mol	Chain	Res	Type
1	MU	81	VAL
1	MU	109	ASN
1	MU	112	VAL
1	MU	116	ILE
1	MU	130	LYS
1	MU	139	LYS
1	MU	141	LYS
1	MU	149	LYS
1	MU	162	THR
1	MU	166	ASN
1	MU	186	LYS
1	MU	190	ASP
1	MU	194	LEU
1	MU	195	LEU
1	MU	199	GLU
1	MU	202	GLU
1	MU	215	LYS
1	MU	219	ILE
1	MU	229	GLU
1	MU	230	LEU
1	MU	239	VAL
1	MU	277	SER
1	MU	281	ILE
1	MU	298	LYS
1	MU	302	LYS
1	MU	303	ASP
1	MU	304	ILE
1	MU	312	ASP
1	MU	344	LEU
1	MU	369	ASP
1	MU	372	LEU
1	MU	391	LYS
1	MU	398	ASP
1	MU	404	LEU
1	MU	417	ILE
1	MU	437	THR
1	MU	450	ILE
1	MU	459	ASP
1	MU	460	LYS
1	MU	462	ASN
1	MU	464	VAL
1	MU	467	TRP

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Mol	Chain	Res	Type
1	MU	470	LEU
1	MU	487	THR
1	MU	495	ASN
1	MU	503	ILE
1	MU	505	LEU
1	MU	536	TYR
1	MU	540	THR
1	MU	542	THR
1	MU	550	ARG
1	MU	553	VAL
1	MU	569	LYS
1	MU	572	LEU
1	MU	588	THR
1	MU	592	LEU
1	MU	606	VAL
1	MU	609	ASP
1	MU	617	VAL
1	MU	629	ILE
1	MU	650	ASP
1	MU	651	PHE
1	MU	655	THR
1	MV	14	THR
1	MV	23	SER
1	MV	32	LYS
1	MV	66	MET
1	MV	72	LEU
1	MV	84	VAL
1	MV	88	THR
1	MV	112	VAL
1	MV	130	LYS
1	MV	139	LYS
1	MV	149	LYS
1	MV	166	ASN
1	MV	172	SER
1	MV	186	LYS
1	MV	190	ASP
1	MV	195	LEU
1	MV	199	GLU
1	MV	205	MET
1	MV	219	ILE
1	MV	229	GLU
1	MV	239	VAL

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Mol	Chain	Res	Type
1	MV	255	TYR
1	MV	260	THR
1	MV	264	THR
1	MV	290	VAL
1	MV	298	LYS
1	MV	299	ARG
1	MV	303	ASP
1	MV	317	LYS
1	MV	344	LEU
1	MV	385	THR
1	MV	398	ASP
1	MV	399	VAL
1	MV	400	ARG
1	MV	404	LEU
1	MV	413	THR
1	MV	417	ILE
1	MV	450	ILE
1	MV	455	LYS
1	MV	467	TRP
1	MV	470	LEU
1	MV	484	VAL
1	MV	487	THR
1	MV	495	ASN
1	MV	503	ILE
1	MV	505	LEU
1	MV	517	LEU
1	MV	523	ASN
1	MV	526	THR
1	MV	534	VAL
1	MV	535	LEU
1	MV	536	TYR
1	MV	542	THR
1	MV	550	ARG
1	MV	551	ILE
1	MV	553	VAL
1	MV	556	LEU
1	MV	572	LEU
1	MV	592	LEU
1	MV	606	VAL
1	MV	612	ASN
1	MV	629	ILE
1	MV	650	ASP

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Mol	Chain	Res	Type
1	MV	655	THR
1	MW	5	SER
1	MW	24	THR
1	MW	32	LYS
1	MW	47	GLU
1	MW	66	MET
1	MW	81	VAL
1	MW	88	THR
1	MW	109	ASN
1	MW	112	VAL
1	MW	139	LYS
1	MW	149	LYS
1	MW	163	LEU
1	MW	178	LEU
1	MW	186	LYS
1	MW	202	GLU
1	MW	205	MET
1	MW	208	VAL
1	MW	219	ILE
1	MW	239	VAL
1	MW	276	ASP
1	MW	281	ILE
1	MW	290	VAL
1	MW	298	LYS
1	MW	299	ARG
1	MW	303	ASP
1	MW	344	LEU
1	MW	351	THR
1	MW	357	GLU
1	MW	372	LEU
1	MW	382	SER
1	MW	383	LEU
1	MW	385	THR
1	MW	404	LEU
1	MW	413	THR
1	MW	415	VAL
1	MW	417	ILE
1	MW	437	THR
1	MW	446	THR
1	MW	450	ILE
1	MW	456	TYR
1	MW	467	TRP

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Mol	Chain	Res	Type
1	MW	468	VAL
1	MW	470	LEU
1	MW	484	VAL
1	MW	495	ASN
1	MW	503	ILE
1	MW	505	LEU
1	MW	517	LEU
1	MW	523	ASN
1	MW	535	LEU
1	MW	536	TYR
1	MW	550	ARG
1	MW	556	LEU
1	MW	569	LYS
1	MW	590	GLN
1	MW	606	VAL
1	MW	610	THR
1	MW	626	THR
1	MW	629	ILE
1	MW	650	ASP
1	MW	655	THR
1	MX	12	GLU
1	MX	26	THR
1	MX	32	LYS
1	MX	47	GLU
1	MX	66	MET
1	MX	72	LEU
1	MX	81	VAL
1	MX	84	VAL
1	MX	130	LYS
1	MX	139	LYS
1	MX	145	ILE
1	MX	149	LYS
1	MX	162	THR
1	MX	178	LEU
1	MX	186	LYS
1	MX	194	LEU
1	MX	195	LEU
1	MX	209	ASP
1	MX	215	LYS
1	MX	219	ILE
1	MX	229	GLU
1	MX	230	LEU

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Mol	Chain	Res	Type
1	MX	235	GLU
1	MX	236	ILE
1	MX	298	LYS
1	MX	299	ARG
1	MX	303	ASP
1	MX	304	ILE
1	MX	383	LEU
1	MX	398	ASP
1	MX	404	LEU
1	MX	413	THR
1	MX	417	ILE
1	MX	430	ARG
1	MX	431	THR
1	MX	459	ASP
1	MX	467	TRP
1	MX	468	VAL
1	MX	495	ASN
1	MX	503	ILE
1	MX	505	LEU
1	MX	517	LEU
1	MX	535	LEU
1	MX	536	TYR
1	MX	540	THR
1	MX	542	THR
1	MX	550	ARG
1	MX	553	VAL
1	MX	559	MET
1	MX	564	ILE
1	MX	569	LYS
1	MX	572	LEU
1	MX	580	THR
1	MX	606	VAL
1	MX	610	THR
1	MX	617	VAL
1	MX	619	ASP
1	MX	621	ASN
1	MX	650	ASP
1	MX	655	THR
1	MY	24	THR
1	MY	32	LYS
1	MY	47	GLU
1	MY	61	THR

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Mol	Chain	Res	Type
1	MY	66	MET
1	MY	72	LEU
1	MY	81	VAL
1	MY	84	VAL
1	MY	88	THR
1	MY	91	ASN
1	MY	112	VAL
1	MY	130	LYS
1	MY	139	LYS
1	MY	149	LYS
1	MY	163	LEU
1	MY	166	ASN
1	MY	171	ILE
1	MY	178	LEU
1	MY	194	LEU
1	MY	197	GLU
1	MY	199	GLU
1	MY	202	GLU
1	MY	205	MET
1	MY	209	ASP
1	MY	215	LYS
1	MY	219	ILE
1	MY	229	GLU
1	MY	281	ILE
1	MY	290	VAL
1	MY	298	LYS
1	MY	299	ARG
1	MY	303	ASP
1	MY	317	LYS
1	MY	346	SER
1	MY	366	GLU
1	MY	383	LEU
1	MY	385	THR
1	MY	398	ASP
1	MY	400	ARG
1	MY	408	SER
1	MY	413	THR
1	MY	414	VAL
1	MY	417	ILE
1	MY	430	ARG
1	MY	450	ILE
1	MY	467	TRP

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Mol	Chain	Res	Type
1	MY	484	VAL
1	MY	487	THR
1	MY	495	ASN
1	MY	503	ILE
1	MY	505	LEU
1	MY	517	LEU
1	MY	523	ASN
1	MY	535	LEU
1	MY	536	TYR
1	MY	540	THR
1	MY	542	THR
1	MY	550	ARG
1	MY	551	ILE
1	MY	569	LYS
1	MY	572	LEU
1	MY	574	GLU
1	MY	588	THR
1	MY	592	LEU
1	MY	606	VAL
1	MY	617	VAL
1	MY	619	ASP
1	MY	629	ILE
1	MY	650	ASP
1	MY	655	THR
1	MZ	14	THR
1	MZ	17	SER
1	MZ	32	LYS
1	MZ	47	GLU
1	MZ	84	VAL
1	MZ	88	THR
1	MZ	91	ASN
1	MZ	112	VAL
1	MZ	115	LYS
1	MZ	139	LYS
1	MZ	141	LYS
1	MZ	149	LYS
1	MZ	166	ASN
1	MZ	186	LYS
1	MZ	190	ASP
1	MZ	194	LEU
1	MZ	195	LEU
1	MZ	199	GLU

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Mol	Chain	Res	Type
1	MZ	215	LYS
1	MZ	219	ILE
1	MZ	230	LEU
1	MZ	239	VAL
1	MZ	281	ILE
1	MZ	290	VAL
1	MZ	298	LYS
1	MZ	302	LYS
1	MZ	303	ASP
1	MZ	344	LEU
1	MZ	372	LEU
1	MZ	383	LEU
1	MZ	385	THR
1	MZ	400	ARG
1	MZ	404	LEU
1	MZ	413	THR
1	MZ	417	ILE
1	MZ	430	ARG
1	MZ	437	THR
1	MZ	450	ILE
1	MZ	451	ASP
1	MZ	454	TYR
1	MZ	455	LYS
1	MZ	464	VAL
1	MZ	467	TRP
1	MZ	468	VAL
1	MZ	503	ILE
1	MZ	505	LEU
1	MZ	509	THR
1	MZ	517	LEU
1	MZ	536	TYR
1	MZ	540	THR
1	MZ	550	ARG
1	MZ	553	VAL
1	MZ	556	LEU
1	MZ	559	MET
1	MZ	569	LYS
1	MZ	571	ARG
1	MZ	583	SER
1	MZ	592	LEU
1	MZ	606	VAL
1	MZ	624	VAL

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Mol	Chain	Res	Type
1	MZ	629	ILE
1	MZ	653	GLU
1	Ma	14	THR
1	Ma	32	LYS
1	Ma	47	GLU
1	Ma	72	LEU
1	Ma	80	VAL
1	Ma	81	VAL
1	Ma	84	VAL
1	Ma	88	THR
1	Ma	91	ASN
1	Ma	109	ASN
1	Ma	112	VAL
1	Ma	133	GLU
1	Ma	134	VAL
1	Ma	139	LYS
1	Ma	147	THR
1	Ma	149	LYS
1	Ma	166	ASN
1	Ma	171	ILE
1	Ma	186	LYS
1	Ma	188	ILE
1	Ma	194	LEU
1	Ma	195	LEU
1	Ma	202	GLU
1	Ma	219	ILE
1	Ma	229	GLU
1	Ma	230	LEU
1	Ma	236	ILE
1	Ma	282	ILE
1	Ma	284	ARG
1	Ma	290	VAL
1	Ma	298	LYS
1	Ma	303	ASP
1	Ma	344	LEU
1	Ma	366	GLU
1	Ma	383	LEU
1	Ma	398	ASP
1	Ma	404	LEU
1	Ma	413	THR
1	Ma	415	VAL
1	Ma	417	ILE

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Mol	Chain	Res	Type
1	Ma	419	VAL
1	Ma	421	ARG
1	Ma	430	ARG
1	Ma	431	THR
1	Ma	450	ILE
1	Ma	460	LYS
1	Ma	466	ARG
1	Ma	467	TRP
1	Ma	482	ASP
1	Ma	483	ASN
1	Ma	484	VAL
1	Ma	523	ASN
1	Ma	535	LEU
1	Ma	536	TYR
1	Ma	540	THR
1	Ma	550	ARG
1	Ma	571	ARG
1	Ma	572	LEU
1	Ma	592	LEU
1	Ma	606	VAL
1	Ma	610	THR
1	Ma	629	ILE
1	Ma	633	ARG
1	Ma	650	ASP
1	Ma	654	LEU
1	Mb	14	THR
1	Mb	32	LYS
1	Mb	42	LYS
1	Mb	47	GLU
1	Mb	49	ASP
1	Mb	66	MET
1	Mb	72	LEU
1	Mb	80	VAL
1	Mb	81	VAL
1	Mb	84	VAL
1	Mb	88	THR
1	Mb	130	LYS
1	Mb	142	LYS
1	Mb	145	ILE
1	Mb	147	THR
1	Mb	149	LYS
1	Mb	163	LEU

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Mol	Chain	Res	Type
1	Mb	186	LYS
1	Mb	195	LEU
1	Mb	199	GLU
1	Mb	202	GLU
1	Mb	219	ILE
1	Mb	229	GLU
1	Mb	252	LEU
1	Mb	255	TYR
1	Mb	264	THR
1	Mb	275	THR
1	Mb	281	ILE
1	Mb	289	ILE
1	Mb	290	VAL
1	Mb	298	LYS
1	Mb	299	ARG
1	Mb	302	LYS
1	Mb	303	ASP
1	Mb	304	ILE
1	Mb	317	LYS
1	Mb	344	LEU
1	Mb	346	SER
1	Mb	351	THR
1	Mb	383	LEU
1	Mb	385	THR
1	Mb	398	ASP
1	Mb	400	ARG
1	Mb	404	LEU
1	Mb	413	THR
1	Mb	415	VAL
1	Mb	417	ILE
1	Mb	430	ARG
1	Mb	450	ILE
1	Mb	459	ASP
1	Mb	467	TRP
1	Mb	468	VAL
1	Mb	503	ILE
1	Mb	523	ASN
1	Mb	526	THR
1	Mb	534	VAL
1	Mb	535	LEU
1	Mb	536	TYR
1	Mb	540	THR

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Mol	Chain	Res	Type
1	Mb	550	ARG
1	Mb	553	VAL
1	Mb	572	LEU
1	Mb	592	LEU
1	Mb	606	VAL
1	Mb	612	ASN
1	Mb	629	ILE
1	Mb	653	GLU
1	Mb	655	THR
1	Mc	14	THR
1	Mc	15	VAL
1	Mc	26	THR
1	Mc	32	LYS
1	Mc	58	THR
1	Mc	66	MET
1	Mc	72	LEU
1	Mc	80	VAL
1	Mc	81	VAL
1	Mc	84	VAL
1	Mc	88	THR
1	Mc	112	VAL
1	Mc	119	LYS
1	Mc	139	LYS
1	Mc	142	LYS
1	Mc	149	LYS
1	Mc	166	ASN
1	Mc	186	LYS
1	Mc	194	LEU
1	Mc	195	LEU
1	Mc	199	GLU
1	Mc	202	GLU
1	Mc	215	LYS
1	Mc	219	ILE
1	Mc	229	GLU
1	Mc	230	LEU
1	Mc	287	ASP
1	Mc	290	VAL
1	Mc	294	VAL
1	Mc	303	ASP
1	Mc	326	THR
1	Mc	344	LEU
1	Mc	351	THR

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Mol	Chain	Res	Type
1	Mc	382	SER
1	Mc	384	GLU
1	Mc	385	THR
1	Mc	398	ASP
1	Mc	404	LEU
1	Mc	417	ILE
1	Mc	420	THR
1	Mc	430	ARG
1	Mc	431	THR
1	Mc	450	ILE
1	Mc	451	ASP
1	Mc	456	TYR
1	Mc	467	TRP
1	Mc	477	LEU
1	Mc	487	THR
1	Mc	495	ASN
1	Mc	499	ILE
1	Mc	503	ILE
1	Mc	536	TYR
1	Mc	550	ARG
1	Mc	563	ASN
1	Mc	564	ILE
1	Mc	592	LEU
1	Mc	606	VAL
1	Mc	617	VAL
1	Mc	624	VAL
1	Mc	641	ASN
1	Md	8	ILE
1	Md	14	THR
1	Md	46	ASN
1	Md	47	GLU
1	Md	66	MET
1	Md	84	VAL
1	Md	86	ARG
1	Md	88	THR
1	Md	105	THR
1	Md	112	VAL
1	Md	121	VAL
1	Md	130	LYS
1	Md	139	LYS
1	Md	149	LYS
1	Md	153	LYS

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Mol	Chain	Res	Type
1	Md	166	ASN
1	Md	171	ILE
1	Md	178	LEU
1	Md	186	LYS
1	Md	208	VAL
1	Md	209	ASP
1	Md	215	LYS
1	Md	219	ILE
1	Md	229	GLU
1	Md	230	LEU
1	Md	239	VAL
1	Md	290	VAL
1	Md	298	LYS
1	Md	299	ARG
1	Md	303	ASP
1	Md	317	LYS
1	Md	344	LEU
1	Md	351	THR
1	Md	396	ILE
1	Md	404	LEU
1	Md	411	ARG
1	Md	413	THR
1	Md	417	ILE
1	Md	450	ILE
1	Md	467	TRP
1	Md	484	VAL
1	Md	487	THR
1	Md	503	ILE
1	Md	505	LEU
1	Md	535	LEU
1	Md	536	TYR
1	Md	540	THR
1	Md	546	SER
1	Md	550	ARG
1	Md	569	LYS
1	Md	571	ARG
1	Md	592	LEU
1	Md	606	VAL
1	Md	617	VAL
1	Md	626	THR
1	Md	629	ILE
1	Md	650	ASP

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Mol	Chain	Res	Type
1	Me	8	ILE
1	Me	14	THR
1	Me	32	LYS
1	Me	66	MET
1	Me	81	VAL
1	Me	88	THR
1	Me	112	VAL
1	Me	121	VAL
1	Me	130	LYS
1	Me	139	LYS
1	Me	166	ASN
1	Me	195	LEU
1	Me	199	GLU
1	Me	202	GLU
1	Me	219	ILE
1	Me	229	GLU
1	Me	255	TYR
1	Me	290	VAL
1	Me	298	LYS
1	Me	299	ARG
1	Me	303	ASP
1	Me	317	LYS
1	Me	344	LEU
1	Me	396	ILE
1	Me	400	ARG
1	Me	402	ASP
1	Me	404	LEU
1	Me	417	ILE
1	Me	430	ARG
1	Me	450	ILE
1	Me	453	ASN
1	Me	467	TRP
1	Me	468	VAL
1	Me	473	ASP
1	Me	483	ASN
1	Me	484	VAL
1	Me	487	THR
1	Me	503	ILE
1	Me	523	ASN
1	Me	535	LEU
1	Me	536	TYR
1	Me	542	THR

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Mol	Chain	Res	Type
1	Me	550	ARG
1	Me	553	VAL
1	Me	564	ILE
1	Me	569	LYS
1	Me	571	ARG
1	Me	572	LEU
1	Me	580	THR
1	Me	590	GLN
1	Me	592	LEU
1	Me	606	VAL
1	Me	617	VAL
1	Me	624	VAL
1	Me	641	ASN
1	Me	655	THR
1	Mv	16	GLN
1	Mv	22	ASN
1	Mv	32	LYS
1	Mv	47	GLU
1	Mv	66	MET
1	Mv	72	LEU
1	Mv	80	VAL
1	Mv	88	THR
1	Mv	100	GLU
1	Mv	112	VAL
1	Mv	114	ASP
1	Mv	139	LYS
1	Mv	141	LYS
1	Mv	149	LYS
1	Mv	166	ASN
1	Mv	186	LYS
1	Mv	195	LEU
1	Mv	202	GLU
1	Mv	219	ILE
1	Mv	229	GLU
1	Mv	289	ILE
1	Mv	290	VAL
1	Mv	298	LYS
1	Mv	303	ASP
1	Mv	304	ILE
1	Mv	313	ASP
1	Mv	344	LEU
1	Mv	349	GLU

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Mol	Chain	Res	Type
1	Mv	354	ASP
1	Mv	357	GLU
1	Mv	383	LEU
1	Mv	387	SER
1	Mv	388	THR
1	Mv	404	LEU
1	Mv	406	LEU
1	Mv	411	ARG
1	Mv	417	ILE
1	Mv	430	ARG
1	Mv	437	THR
1	Mv	438	ASP
1	Mv	453	ASN
1	Mv	456	TYR
1	Mv	460	LYS
1	Mv	467	TRP
1	Mv	503	ILE
1	Mv	505	LEU
1	Mv	535	LEU
1	Mv	536	TYR
1	Mv	542	THR
1	Mv	544	VAL
1	Mv	550	ARG
1	Mv	572	LEU
1	Mv	574	GLU
1	Mv	590	GLN
1	Mv	606	VAL
1	Mv	629	ILE
1	Mv	650	ASP
1	Mv	651	PHE
1	Mw	32	LYS
1	Mw	47	GLU
1	Mw	58	THR
1	Mw	66	MET
1	Mw	72	LEU
1	Mw	76	ASN
1	Mw	81	VAL
1	Mw	86	ARG
1	Mw	91	ASN
1	Mw	112	VAL
1	Mw	124	ASP
1	Mw	126	GLU

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Mol	Chain	Res	Type
1	Mw	130	LYS
1	Mw	149	LYS
1	Mw	178	LEU
1	Mw	186	LYS
1	Mw	190	ASP
1	Mw	191	SER
1	Mw	195	LEU
1	Mw	202	GLU
1	Mw	205	MET
1	Mw	209	ASP
1	Mw	219	ILE
1	Mw	229	GLU
1	Mw	239	VAL
1	Mw	261	ARG
1	Mw	271	TYR
1	Mw	290	VAL
1	Mw	298	LYS
1	Mw	303	ASP
1	Mw	351	THR
1	Mw	384	GLU
1	Mw	385	THR
1	Mw	396	ILE
1	Mw	398	ASP
1	Mw	400	ARG
1	Mw	404	LEU
1	Mw	414	VAL
1	Mw	415	VAL
1	Mw	417	ILE
1	Mw	430	ARG
1	Mw	450	ILE
1	Mw	453	ASN
1	Mw	456	TYR
1	Mw	459	ASP
1	Mw	467	TRP
1	Mw	483	ASN
1	Mw	495	ASN
1	Mw	503	ILE
1	Mw	505	LEU
1	Mw	517	LEU
1	Mw	523	ASN
1	Mw	535	LEU
1	Mw	536	TYR

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Mol	Chain	Res	Type
1	Mw	540	THR
1	Mw	542	THR
1	Mw	550	ARG
1	Mw	559	MET
1	Mw	564	ILE
1	Mw	569	LYS
1	Mw	572	LEU
1	Mw	586	THR
1	Mw	590	GLN
1	Mw	592	LEU
1	Mw	596	LYS
1	Mw	603	GLU
1	Mw	606	VAL
1	Mw	629	ILE
1	Mw	650	ASP
1	Mw	655	THR
1	Mx	14	THR
1	Mx	45	THR
1	Mx	49	ASP
1	Mx	66	MET
1	Mx	72	LEU
1	Mx	81	VAL
1	Mx	88	THR
1	Mx	91	ASN
1	Mx	112	VAL
1	Mx	130	LYS
1	Mx	139	LYS
1	Mx	141	LYS
1	Mx	147	THR
1	Mx	149	LYS
1	Mx	151	ILE
1	Mx	166	ASN
1	Mx	178	LEU
1	Mx	194	LEU
1	Mx	195	LEU
1	Mx	205	MET
1	Mx	215	LYS
1	Mx	219	ILE
1	Mx	222	VAL
1	Mx	229	GLU
1	Mx	271	TYR
1	Mx	281	ILE

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Mol	Chain	Res	Type
1	Mx	290	VAL
1	Mx	293	VAL
1	Mx	298	LYS
1	Mx	303	ASP
1	Mx	344	LEU
1	Mx	383	LEU
1	Mx	384	GLU
1	Mx	385	THR
1	Mx	404	LEU
1	Mx	407	CYS
1	Mx	417	ILE
1	Mx	430	ARG
1	Mx	431	THR
1	Mx	446	THR
1	Mx	450	ILE
1	Mx	453	ASN
1	Mx	456	TYR
1	Mx	467	TRP
1	Mx	477	LEU
1	Mx	487	THR
1	Mx	495	ASN
1	Mx	499	ILE
1	Mx	503	ILE
1	Mx	505	LEU
1	Mx	517	LEU
1	Mx	526	THR
1	Mx	534	VAL
1	Mx	535	LEU
1	Mx	536	TYR
1	Mx	540	THR
1	Mx	544	VAL
1	Mx	550	ARG
1	Mx	556	LEU
1	Mx	572	LEU
1	Mx	580	THR
1	Mx	592	LEU
1	Mx	596	LYS
1	Mx	601	ILE
1	Mx	606	VAL
1	Mx	612	ASN
1	Mx	617	VAL
1	Mx	626	THR

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Mol	Chain	Res	Type
1	Mx	633	ARG
1	Mx	641	ASN
1	Mx	650	ASP
1	Mz	16	GLN
1	Mz	32	LYS
1	Mz	47	GLU
1	Mz	53	THR
1	Mz	66	MET
1	Mz	72	LEU
1	Mz	76	ASN
1	Mz	81	VAL
1	Mz	84	VAL
1	Mz	88	THR
1	Mz	104	SER
1	Mz	109	ASN
1	Mz	112	VAL
1	Mz	130	LYS
1	Mz	139	LYS
1	Mz	145	ILE
1	Mz	149	LYS
1	Mz	163	LEU
1	Mz	182	ILE
1	Mz	186	LYS
1	Mz	195	LEU
1	Mz	202	GLU
1	Mz	209	ASP
1	Mz	219	ILE
1	Mz	239	VAL
1	Mz	263	SER
1	Mz	271	TYR
1	Mz	277	SER
1	Mz	281	ILE
1	Mz	298	LYS
1	Mz	303	ASP
1	Mz	304	ILE
1	Mz	311	ILE
1	Mz	317	LYS
1	Mz	344	LEU
1	Mz	372	LEU
1	Mz	383	LEU
1	Mz	399	VAL
1	Mz	403	CYS

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Mol	Chain	Res	Type
1	Mz	404	LEU
1	Mz	417	ILE
1	Mz	450	ILE
1	Mz	453	ASN
1	Mz	466	ARG
1	Mz	467	TRP
1	Mz	468	VAL
1	Mz	470	LEU
1	Mz	483	ASN
1	Mz	495	ASN
1	Mz	503	ILE
1	Mz	505	LEU
1	Mz	535	LEU
1	Mz	536	TYR
1	Mz	540	THR
1	Mz	550	ARG
1	Mz	559	MET
1	Mz	564	ILE
1	Mz	567	SER
1	Mz	569	LYS
1	Mz	572	LEU
1	Mz	574	GLU
1	Mz	586	THR
1	Mz	590	GLN
1	Mz	592	LEU
1	Mz	596	LYS
1	Mz	606	VAL
1	Mz	624	VAL
1	Mz	626	THR
1	Mz	629	ILE
1	Mz	650	ASP
1	Mz	655	THR
1	NV	32	LYS
1	NV	49	ASP
1	NV	66	MET
1	NV	72	LEU
1	NV	80	VAL
1	NV	86	ARG
1	NV	88	THR
1	NV	95	ILE
1	NV	112	VAL
1	NV	130	LYS

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Mol	Chain	Res	Type
1	NV	133	GLU
1	NV	134	VAL
1	NV	139	LYS
1	NV	149	LYS
1	NV	190	ASP
1	NV	195	LEU
1	NV	199	GLU
1	NV	202	GLU
1	NV	215	LYS
1	NV	219	ILE
1	NV	290	VAL
1	NV	298	LYS
1	NV	303	ASP
1	NV	326	THR
1	NV	344	LEU
1	NV	370	VAL
1	NV	383	LEU
1	NV	384	GLU
1	NV	404	LEU
1	NV	417	ILE
1	NV	450	ILE
1	NV	455	LYS
1	NV	456	TYR
1	NV	467	TRP
1	NV	482	ASP
1	NV	495	ASN
1	NV	503	ILE
1	NV	505	LEU
1	NV	535	LEU
1	NV	536	TYR
1	NV	550	ARG
1	NV	551	ILE
1	NV	560	LEU
1	NV	568	SER
1	NV	571	ARG
1	NV	572	LEU
1	NV	590	GLN
1	NV	592	LEU
1	NV	606	VAL
1	NV	619	ASP
1	NV	629	ILE
1	NV	650	ASP

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Mol	Chain	Res	Type
1	NV	651	PHE
1	NV	655	THR
1	NW	53	THR
1	NW	58	THR
1	NW	66	MET
1	NW	69	MET
1	NW	72	LEU
1	NW	81	VAL
1	NW	91	ASN
1	NW	112	VAL
1	NW	130	LYS
1	NW	139	LYS
1	NW	149	LYS
1	NW	163	LEU
1	NW	186	LYS
1	NW	194	LEU
1	NW	195	LEU
1	NW	202	GLU
1	NW	208	VAL
1	NW	209	ASP
1	NW	215	LYS
1	NW	219	ILE
1	NW	229	GLU
1	NW	281	ILE
1	NW	290	VAL
1	NW	298	LYS
1	NW	302	LYS
1	NW	303	ASP
1	NW	344	LEU
1	NW	383	LEU
1	NW	391	LYS
1	NW	398	ASP
1	NW	404	LEU
1	NW	417	ILE
1	NW	439	ASN
1	NW	450	ILE
1	NW	454	TYR
1	NW	455	LYS
1	NW	467	TRP
1	NW	473	ASP
1	NW	477	LEU
1	NW	487	THR

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Mol	Chain	Res	Type
1	NW	495	ASN
1	NW	503	ILE
1	NW	505	LEU
1	NW	523	ASN
1	NW	535	LEU
1	NW	536	TYR
1	NW	539	LYS
1	NW	540	THR
1	NW	542	THR
1	NW	550	ARG
1	NW	551	ILE
1	NW	569	LYS
1	NW	571	ARG
1	NW	572	LEU
1	NW	586	THR
1	NW	590	GLN
1	NW	606	VAL
1	NW	609	ASP
1	NW	610	THR
1	NW	629	ILE
1	NW	650	ASP
1	NW	653	GLU
1	NX	32	LYS
1	NX	47	GLU
1	NX	58	THR
1	NX	66	MET
1	NX	72	LEU
1	NX	76	ASN
1	NX	81	VAL
1	NX	91	ASN
1	NX	102	THR
1	NX	112	VAL
1	NX	114	ASP
1	NX	130	LYS
1	NX	139	LYS
1	NX	141	LYS
1	NX	149	LYS
1	NX	151	ILE
1	NX	166	ASN
1	NX	186	LYS
1	NX	194	LEU
1	NX	202	GLU

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Mol	Chain	Res	Type
1	NX	205	MET
1	NX	219	ILE
1	NX	229	GLU
1	NX	239	VAL
1	NX	286	ASN
1	NX	290	VAL
1	NX	298	LYS
1	NX	303	ASP
1	NX	321	GLU
1	NX	344	LEU
1	NX	372	LEU
1	NX	385	THR
1	NX	391	LYS
1	NX	396	ILE
1	NX	398	ASP
1	NX	404	LEU
1	NX	411	ARG
1	NX	415	VAL
1	NX	417	ILE
1	NX	450	ILE
1	NX	467	TRP
1	NX	468	VAL
1	NX	470	LEU
1	NX	483	ASN
1	NX	487	THR
1	NX	495	ASN
1	NX	503	ILE
1	NX	505	LEU
1	NX	535	LEU
1	NX	536	TYR
1	NX	538	ASP
1	NX	550	ARG
1	NX	564	ILE
1	NX	569	LYS
1	NX	592	LEU
1	NX	596	LYS
1	NX	605	ARG
1	NX	606	VAL
1	NX	617	VAL
1	NX	629	ILE
1	NX	650	ASP
1	NX	653	GLU

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Mol	Chain	Res	Type
1	NX	655	THR
1	NZ	14	THR
1	NZ	16	GLN
1	NZ	32	LYS
1	NZ	42	LYS
1	NZ	47	GLU
1	NZ	66	MET
1	NZ	72	LEU
1	NZ	78	LEU
1	NZ	81	VAL
1	NZ	86	ARG
1	NZ	88	THR
1	NZ	109	ASN
1	NZ	112	VAL
1	NZ	116	ILE
1	NZ	130	LYS
1	NZ	139	LYS
1	NZ	141	LYS
1	NZ	149	LYS
1	NZ	151	ILE
1	NZ	162	THR
1	NZ	166	ASN
1	NZ	186	LYS
1	NZ	188	ILE
1	NZ	190	ASP
1	NZ	195	LEU
1	NZ	199	GLU
1	NZ	202	GLU
1	NZ	205	MET
1	NZ	219	ILE
1	NZ	229	GLU
1	NZ	230	LEU
1	NZ	239	VAL
1	NZ	271	TYR
1	NZ	277	SER
1	NZ	281	ILE
1	NZ	298	LYS
1	NZ	303	ASP
1	NZ	304	ILE
1	NZ	312	ASP
1	NZ	344	LEU
1	NZ	372	LEU

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Mol	Chain	Res	Type
1	NZ	383	LEU
1	NZ	398	ASP
1	NZ	404	LEU
1	NZ	417	ILE
1	NZ	430	ARG
1	NZ	435	SER
1	NZ	436	TYR
1	NZ	437	THR
1	NZ	446	THR
1	NZ	450	ILE
1	NZ	459	ASP
1	NZ	460	LYS
1	NZ	467	TRP
1	NZ	503	ILE
1	NZ	505	LEU
1	NZ	535	LEU
1	NZ	536	TYR
1	NZ	542	THR
1	NZ	550	ARG
1	NZ	551	ILE
1	NZ	553	VAL
1	NZ	556	LEU
1	NZ	572	LEU
1	NZ	582	SER
1	NZ	588	THR
1	NZ	590	GLN
1	NZ	592	LEU
1	NZ	606	VAL
1	NZ	617	VAL
1	NZ	629	ILE
1	NZ	650	ASP
1	NZ	651	PHE
1	NZ	653	GLU
1	NZ	655	THR
1	Na	14	THR
1	Na	26	THR
1	Na	32	LYS
1	Na	41	ILE
1	Na	45	THR
1	Na	47	GLU
1	Na	66	MET
1	Na	84	VAL

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Mol	Chain	Res	Type
1	Na	112	VAL
1	Na	125	ILE
1	Na	130	LYS
1	Na	139	LYS
1	Na	149	LYS
1	Na	163	LEU
1	Na	166	ASN
1	Na	186	LYS
1	Na	190	ASP
1	Na	205	MET
1	Na	209	ASP
1	Na	219	ILE
1	Na	239	VAL
1	Na	255	TYR
1	Na	260	THR
1	Na	264	THR
1	Na	290	VAL
1	Na	294	VAL
1	Na	298	LYS
1	Na	299	ARG
1	Na	303	ASP
1	Na	317	LYS
1	Na	326	THR
1	Na	345	SER
1	Na	372	LEU
1	Na	385	THR
1	Na	398	ASP
1	Na	399	VAL
1	Na	400	ARG
1	Na	404	LEU
1	Na	413	THR
1	Na	417	ILE
1	Na	430	ARG
1	Na	446	THR
1	Na	450	ILE
1	Na	455	LYS
1	Na	467	TRP
1	Na	470	LEU
1	Na	484	VAL
1	Na	487	THR
1	Na	495	ASN
1	Na	503	ILE

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Mol	Chain	Res	Type
1	Na	505	LEU
1	Na	517	LEU
1	Na	523	ASN
1	Na	535	LEU
1	Na	536	TYR
1	Na	542	THR
1	Na	550	ARG
1	Na	551	ILE
1	Na	562	THR
1	Na	564	ILE
1	Na	569	LYS
1	Na	571	ARG
1	Na	575	LEU
1	Na	586	THR
1	Na	592	LEU
1	Na	596	LYS
1	Na	606	VAL
1	Na	617	VAL
1	Na	629	ILE
1	Na	650	ASP
1	Na	653	GLU
1	Na	655	THR
1	Nb	32	LYS
1	Nb	47	GLU
1	Nb	66	MET
1	Nb	81	VAL
1	Nb	88	THR
1	Nb	112	VAL
1	Nb	139	LYS
1	Nb	147	THR
1	Nb	149	LYS
1	Nb	153	LYS
1	Nb	163	LEU
1	Nb	182	ILE
1	Nb	195	LEU
1	Nb	202	GLU
1	Nb	205	MET
1	Nb	208	VAL
1	Nb	219	ILE
1	Nb	275	THR
1	Nb	289	ILE
1	Nb	298	LYS

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Mol	Chain	Res	Type
1	Nb	303	ASP
1	Nb	311	ILE
1	Nb	321	GLU
1	Nb	344	LEU
1	Nb	351	THR
1	Nb	357	GLU
1	Nb	382	SER
1	Nb	383	LEU
1	Nb	385	THR
1	Nb	398	ASP
1	Nb	404	LEU
1	Nb	407	CYS
1	Nb	413	THR
1	Nb	417	ILE
1	Nb	438	ASP
1	Nb	450	ILE
1	Nb	467	TRP
1	Nb	468	VAL
1	Nb	470	LEU
1	Nb	482	ASP
1	Nb	490	SER
1	Nb	495	ASN
1	Nb	503	ILE
1	Nb	505	LEU
1	Nb	517	LEU
1	Nb	523	ASN
1	Nb	535	LEU
1	Nb	536	TYR
1	Nb	540	THR
1	Nb	550	ARG
1	Nb	552	ASN
1	Nb	572	LEU
1	Nb	606	VAL
1	Nb	610	THR
1	Nb	617	VAL
1	Nb	655	THR
1	Nc	12	GLU
1	Nc	16	GLN
1	Nc	26	THR
1	Nc	47	GLU
1	Nc	66	MET
1	Nc	72	LEU

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Mol	Chain	Res	Type
1	Nc	78	LEU
1	Nc	80	VAL
1	Nc	81	VAL
1	Nc	84	VAL
1	Nc	88	THR
1	Nc	117	THR
1	Nc	130	LYS
1	Nc	139	LYS
1	Nc	141	LYS
1	Nc	145	ILE
1	Nc	149	LYS
1	Nc	151	ILE
1	Nc	178	LEU
1	Nc	186	LYS
1	Nc	194	LEU
1	Nc	195	LEU
1	Nc	199	GLU
1	Nc	202	GLU
1	Nc	205	MET
1	Nc	209	ASP
1	Nc	219	ILE
1	Nc	229	GLU
1	Nc	230	LEU
1	Nc	239	VAL
1	Nc	255	TYR
1	Nc	298	LYS
1	Nc	299	ARG
1	Nc	303	ASP
1	Nc	339	THR
1	Nc	351	THR
1	Nc	372	LEU
1	Nc	383	LEU
1	Nc	385	THR
1	Nc	398	ASP
1	Nc	404	LEU
1	Nc	408	SER
1	Nc	413	THR
1	Nc	417	ILE
1	Nc	420	THR
1	Nc	430	ARG
1	Nc	431	THR
1	Nc	446	THR

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Mol	Chain	Res	Type
1	Nc	450	ILE
1	Nc	467	TRP
1	Nc	477	LEU
1	Nc	483	ASN
1	Nc	484	VAL
1	Nc	495	ASN
1	Nc	505	LEU
1	Nc	509	THR
1	Nc	517	LEU
1	Nc	526	THR
1	Nc	536	TYR
1	Nc	550	ARG
1	Nc	564	ILE
1	Nc	571	ARG
1	Nc	572	LEU
1	Nc	586	THR
1	Nc	590	GLN
1	Nc	592	LEU
1	Nc	606	VAL
1	Nc	617	VAL
1	Nc	619	ASP
1	Nc	620	ARG
1	Nc	633	ARG
1	Nc	655	THR
1	Nd	14	THR
1	Nd	23	SER
1	Nd	32	LYS
1	Nd	47	GLU
1	Nd	66	MET
1	Nd	81	VAL
1	Nd	84	VAL
1	Nd	130	LYS
1	Nd	139	LYS
1	Nd	149	LYS
1	Nd	166	ASN
1	Nd	168	THR
1	Nd	178	LEU
1	Nd	194	LEU
1	Nd	195	LEU
1	Nd	197	GLU
1	Nd	199	GLU
1	Nd	205	MET

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Mol	Chain	Res	Type
1	Nd	209	ASP
1	Nd	219	ILE
1	Nd	229	GLU
1	Nd	239	VAL
1	Nd	252	LEU
1	Nd	281	ILE
1	Nd	298	LYS
1	Nd	299	ARG
1	Nd	303	ASP
1	Nd	317	LYS
1	Nd	344	LEU
1	Nd	366	GLU
1	Nd	383	LEU
1	Nd	404	LEU
1	Nd	408	SER
1	Nd	411	ARG
1	Nd	413	THR
1	Nd	414	VAL
1	Nd	417	ILE
1	Nd	430	ARG
1	Nd	446	THR
1	Nd	450	ILE
1	Nd	455	LYS
1	Nd	459	ASP
1	Nd	467	TRP
1	Nd	477	LEU
1	Nd	482	ASP
1	Nd	495	ASN
1	Nd	503	ILE
1	Nd	505	LEU
1	Nd	517	LEU
1	Nd	535	LEU
1	Nd	536	TYR
1	Nd	542	THR
1	Nd	550	ARG
1	Nd	551	ILE
1	Nd	552	ASN
1	Nd	559	MET
1	Nd	560	LEU
1	Nd	564	ILE
1	Nd	569	LYS
1	Nd	572	LEU

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Mol	Chain	Res	Type
1	Nd	605	ARG
1	Nd	606	VAL
1	Nd	629	ILE
1	Nd	633	ARG
1	Nd	650	ASP
1	Ne	14	THR
1	Ne	18	THR
1	Ne	32	LYS
1	Ne	42	LYS
1	Ne	66	MET
1	Ne	72	LEU
1	Ne	81	VAL
1	Ne	88	THR
1	Ne	104	SER
1	Ne	112	VAL
1	Ne	115	LYS
1	Ne	121	VAL
1	Ne	130	LYS
1	Ne	139	LYS
1	Ne	141	LYS
1	Ne	149	LYS
1	Ne	166	ASN
1	Ne	168	THR
1	Ne	186	LYS
1	Ne	194	LEU
1	Ne	195	LEU
1	Ne	199	GLU
1	Ne	219	ILE
1	Ne	230	LEU
1	Ne	239	VAL
1	Ne	290	VAL
1	Ne	298	LYS
1	Ne	303	ASP
1	Ne	372	LEU
1	Ne	383	LEU
1	Ne	385	THR
1	Ne	404	LEU
1	Ne	417	ILE
1	Ne	438	ASP
1	Ne	442	ASN
1	Ne	446	THR
1	Ne	450	ILE

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Mol	Chain	Res	Type
1	Ne	451	ASP
1	Ne	456	TYR
1	Ne	467	TRP
1	Ne	482	ASP
1	Ne	496	ARG
1	Ne	503	ILE
1	Ne	505	LEU
1	Ne	517	LEU
1	Ne	536	TYR
1	Ne	540	THR
1	Ne	550	ARG
1	Ne	569	LYS
1	Ne	571	ARG
1	Ne	592	LEU
1	Ne	601	ILE
1	Ne	606	VAL
1	Ne	617	VAL
1	Ne	624	VAL
1	Ne	629	ILE
1	Nf	14	THR
1	Nf	32	LYS
1	Nf	66	MET
1	Nf	72	LEU
1	Nf	78	LEU
1	Nf	80	VAL
1	Nf	88	THR
1	Nf	91	ASN
1	Nf	99	ILE
1	Nf	112	VAL
1	Nf	130	LYS
1	Nf	139	LYS
1	Nf	149	LYS
1	Nf	166	ASN
1	Nf	171	ILE
1	Nf	178	LEU
1	Nf	186	LYS
1	Nf	191	SER
1	Nf	195	LEU
1	Nf	202	GLU
1	Nf	219	ILE
1	Nf	229	GLU
1	Nf	230	LEU

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Mol	Chain	Res	Type
1	Nf	281	ILE
1	Nf	290	VAL
1	Nf	298	LYS
1	Nf	303	ASP
1	Nf	307	SER
1	Nf	317	LYS
1	Nf	321	GLU
1	Nf	344	LEU
1	Nf	351	THR
1	Nf	383	LEU
1	Nf	391	LYS
1	Nf	398	ASP
1	Nf	404	LEU
1	Nf	413	THR
1	Nf	417	ILE
1	Nf	430	ARG
1	Nf	446	THR
1	Nf	450	ILE
1	Nf	456	TYR
1	Nf	460	LYS
1	Nf	466	ARG
1	Nf	467	TRP
1	Nf	468	VAL
1	Nf	484	VAL
1	Nf	487	THR
1	Nf	495	ASN
1	Nf	503	ILE
1	Nf	505	LEU
1	Nf	523	ASN
1	Nf	526	THR
1	Nf	535	LEU
1	Nf	536	TYR
1	Nf	542	THR
1	Nf	550	ARG
1	Nf	562	THR
1	Nf	569	LYS
1	Nf	572	LEU
1	Nf	580	THR
1	Nf	592	LEU
1	Nf	606	VAL
1	Nf	610	THR
1	Nf	617	VAL

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Mol	Chain	Res	Type
1	Nf	626	THR
1	Nf	629	ILE
1	Nf	633	ARG
1	Nf	650	ASP
1	Nf	651	PHE
1	Nf	653	GLU
1	Nf	655	THR
1	Ng	14	THR
1	Ng	26	THR
1	Ng	32	LYS
1	Ng	66	MET
1	Ng	72	LEU
1	Ng	80	VAL
1	Ng	81	VAL
1	Ng	88	THR
1	Ng	130	LYS
1	Ng	139	LYS
1	Ng	147	THR
1	Ng	149	LYS
1	Ng	153	LYS
1	Ng	186	LYS
1	Ng	190	ASP
1	Ng	199	GLU
1	Ng	202	GLU
1	Ng	219	ILE
1	Ng	229	GLU
1	Ng	239	VAL
1	Ng	277	SER
1	Ng	281	ILE
1	Ng	290	VAL
1	Ng	298	LYS
1	Ng	299	ARG
1	Ng	302	LYS
1	Ng	303	ASP
1	Ng	304	ILE
1	Ng	317	LYS
1	Ng	344	LEU
1	Ng	346	SER
1	Ng	385	THR
1	Ng	398	ASP
1	Ng	399	VAL
1	Ng	400	ARG

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Mol	Chain	Res	Type
1	Ng	413	THR
1	Ng	417	ILE
1	Ng	446	THR
1	Ng	450	ILE
1	Ng	459	ASP
1	Ng	467	TRP
1	Ng	495	ASN
1	Ng	503	ILE
1	Ng	509	THR
1	Ng	517	LEU
1	Ng	523	ASN
1	Ng	526	THR
1	Ng	535	LEU
1	Ng	536	TYR
1	Ng	540	THR
1	Ng	542	THR
1	Ng	550	ARG
1	Ng	553	VAL
1	Ng	564	ILE
1	Ng	569	LYS
1	Ng	572	LEU
1	Ng	586	THR
1	Ng	590	GLN
1	Ng	592	LEU
1	Ng	602	TYR
1	Ng	605	ARG
1	Ng	606	VAL
1	Ng	612	ASN
1	Ng	617	VAL
1	Ng	637	TYR
1	Ng	653	GLU
1	Ng	655	THR
1	Nh	14	THR
1	Nh	15	VAL
1	Nh	32	LYS
1	Nh	47	GLU
1	Nh	58	THR
1	Nh	66	MET
1	Nh	72	LEU
1	Nh	76	ASN
1	Nh	81	VAL
1	Nh	88	THR

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Mol	Chain	Res	Type
1	Nh	112	VAL
1	Nh	139	LYS
1	Nh	149	LYS
1	Nh	166	ASN
1	Nh	186	LYS
1	Nh	189	THR
1	Nh	194	LEU
1	Nh	199	GLU
1	Nh	202	GLU
1	Nh	219	ILE
1	Nh	223	VAL
1	Nh	230	LEU
1	Nh	255	TYR
1	Nh	271	TYR
1	Nh	281	ILE
1	Nh	286	ASN
1	Nh	287	ASP
1	Nh	290	VAL
1	Nh	303	ASP
1	Nh	335	SER
1	Nh	344	LEU
1	Nh	372	LEU
1	Nh	385	THR
1	Nh	398	ASP
1	Nh	404	LEU
1	Nh	408	SER
1	Nh	417	ILE
1	Nh	430	ARG
1	Nh	450	ILE
1	Nh	456	TYR
1	Nh	467	TRP
1	Nh	468	VAL
1	Nh	482	ASP
1	Nh	487	THR
1	Nh	499	ILE
1	Nh	503	ILE
1	Nh	505	LEU
1	Nh	517	LEU
1	Nh	536	TYR
1	Nh	550	ARG
1	Nh	569	LYS
1	Nh	572	LEU

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Mol	Chain	Res	Type
1	Nh	590	GLN
1	Nh	592	LEU
1	Nh	606	VAL
1	Nh	624	VAL
1	Nh	653	GLU
1	Ni	23	SER
1	Ni	32	LYS
1	Ni	47	GLU
1	Ni	66	MET
1	Ni	80	VAL
1	Ni	81	VAL
1	Ni	84	VAL
1	Ni	88	THR
1	Ni	112	VAL
1	Ni	130	LYS
1	Ni	133	GLU
1	Ni	139	LYS
1	Ni	149	LYS
1	Ni	166	ASN
1	Ni	171	ILE
1	Ni	178	LEU
1	Ni	190	ASP
1	Ni	195	LEU
1	Ni	197	GLU
1	Ni	208	VAL
1	Ni	209	ASP
1	Ni	215	LYS
1	Ni	219	ILE
1	Ni	235	GLU
1	Ni	239	VAL
1	Ni	290	VAL
1	Ni	296	SER
1	Ni	298	LYS
1	Ni	303	ASP
1	Ni	344	LEU
1	Ni	396	ILE
1	Ni	398	ASP
1	Ni	404	LEU
1	Ni	413	THR
1	Ni	417	ILE
1	Ni	430	ARG
1	Ni	450	ILE

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Mol	Chain	Res	Type
1	Ni	456	TYR
1	Ni	467	TRP
1	Ni	484	VAL
1	Ni	487	THR
1	Ni	503	ILE
1	Ni	505	LEU
1	Ni	523	ASN
1	Ni	535	LEU
1	Ni	536	TYR
1	Ni	550	ARG
1	Ni	551	ILE
1	Ni	556	LEU
1	Ni	564	ILE
1	Ni	569	LYS
1	Ni	571	ARG
1	Ni	590	GLN
1	Ni	592	LEU
1	Ni	596	LYS
1	Ni	605	ARG
1	Ni	606	VAL
1	Ni	617	VAL
1	Ni	629	ILE
1	Ni	650	ASP
1	Ni	655	THR
1	Nj	8	ILE
1	Nj	14	THR
1	Nj	32	LYS
1	Nj	66	MET
1	Nj	88	THR
1	Nj	112	VAL
1	Nj	121	VAL
1	Nj	130	LYS
1	Nj	139	LYS
1	Nj	141	LYS
1	Nj	166	ASN
1	Nj	195	LEU
1	Nj	199	GLU
1	Nj	202	GLU
1	Nj	205	MET
1	Nj	219	ILE
1	Nj	229	GLU
1	Nj	252	LEU

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Mol	Chain	Res	Type
1	Nj	255	TYR
1	Nj	290	VAL
1	Nj	298	LYS
1	Nj	299	ARG
1	Nj	303	ASP
1	Nj	312	ASP
1	Nj	344	LEU
1	Nj	383	LEU
1	Nj	396	ILE
1	Nj	402	ASP
1	Nj	404	LEU
1	Nj	417	ILE
1	Nj	430	ARG
1	Nj	439	ASN
1	Nj	450	ILE
1	Nj	473	ASP
1	Nj	487	THR
1	Nj	503	ILE
1	Nj	505	LEU
1	Nj	523	ASN
1	Nj	535	LEU
1	Nj	536	TYR
1	Nj	540	THR
1	Nj	542	THR
1	Nj	550	ARG
1	Nj	569	LYS
1	Nj	574	GLU
1	Nj	575	LEU
1	Nj	592	LEU
1	Nj	605	ARG
1	Nj	606	VAL
1	Nj	610	THR
1	Nj	624	VAL
1	Nj	629	ILE
1	Nj	655	THR
1	Nv	26	THR
1	Nv	42	LYS
1	Nv	47	GLU
1	Nv	66	MET
1	Nv	72	LEU
1	Nv	80	VAL
1	Nv	84	VAL

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Mol	Chain	Res	Type
1	Nv	88	THR
1	Nv	112	VAL
1	Nv	114	ASP
1	Nv	116	ILE
1	Nv	137	ASP
1	Nv	139	LYS
1	Nv	141	LYS
1	Nv	149	LYS
1	Nv	166	ASN
1	Nv	186	LYS
1	Nv	199	GLU
1	Nv	205	MET
1	Nv	219	ILE
1	Nv	229	GLU
1	Nv	271	TYR
1	Nv	281	ILE
1	Nv	289	ILE
1	Nv	290	VAL
1	Nv	298	LYS
1	Nv	303	ASP
1	Nv	344	LEU
1	Nv	349	GLU
1	Nv	357	GLU
1	Nv	370	VAL
1	Nv	383	LEU
1	Nv	398	ASP
1	Nv	406	LEU
1	Nv	411	ARG
1	Nv	412	GLU
1	Nv	413	THR
1	Nv	417	ILE
1	Nv	430	ARG
1	Nv	437	THR
1	Nv	438	ASP
1	Nv	451	ASP
1	Nv	453	ASN
1	Nv	456	TYR
1	Nv	460	LYS
1	Nv	467	TRP
1	Nv	470	LEU
1	Nv	484	VAL
1	Nv	496	ARG

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Mol	Chain	Res	Type
1	Nv	498	GLN
1	Nv	503	ILE
1	Nv	505	LEU
1	Nv	517	LEU
1	Nv	523	ASN
1	Nv	535	LEU
1	Nv	536	TYR
1	Nv	540	THR
1	Nv	544	VAL
1	Nv	550	ARG
1	Nv	556	LEU
1	Nv	572	LEU
1	Nv	574	GLU
1	Nv	590	GLN
1	Nv	592	LEU
1	Nv	606	VAL
1	Nv	610	THR
1	Nv	629	ILE
1	Nv	650	ASP
1	Nv	651	PHE
1	Nw	32	LYS
1	Nw	47	GLU
1	Nw	66	MET
1	Nw	72	LEU
1	Nw	81	VAL
1	Nw	86	ARG
1	Nw	112	VAL
1	Nw	130	LYS
1	Nw	140	ILE
1	Nw	149	LYS
1	Nw	166	ASN
1	Nw	178	LEU
1	Nw	186	LYS
1	Nw	195	LEU
1	Nw	202	GLU
1	Nw	205	MET
1	Nw	209	ASP
1	Nw	215	LYS
1	Nw	219	ILE
1	Nw	229	GLU
1	Nw	233	LYS
1	Nw	239	VAL

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Mol	Chain	Res	Type
1	Nw	261	ARG
1	Nw	281	ILE
1	Nw	290	VAL
1	Nw	298	LYS
1	Nw	303	ASP
1	Nw	344	LEU
1	Nw	350	VAL
1	Nw	372	LEU
1	Nw	383	LEU
1	Nw	385	THR
1	Nw	391	LYS
1	Nw	398	ASP
1	Nw	406	LEU
1	Nw	417	ILE
1	Nw	437	THR
1	Nw	450	ILE
1	Nw	451	ASP
1	Nw	453	ASN
1	Nw	455	LYS
1	Nw	456	TYR
1	Nw	459	ASP
1	Nw	467	TRP
1	Nw	468	VAL
1	Nw	470	LEU
1	Nw	483	ASN
1	Nw	487	THR
1	Nw	495	ASN
1	Nw	503	ILE
1	Nw	505	LEU
1	Nw	517	LEU
1	Nw	523	ASN
1	Nw	531	ASP
1	Nw	536	TYR
1	Nw	550	ARG
1	Nw	553	VAL
1	Nw	564	ILE
1	Nw	569	LYS
1	Nw	572	LEU
1	Nw	586	THR
1	Nw	592	LEU
1	Nw	606	VAL
1	Nw	624	VAL

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Mol	Chain	Res	Type
1	Nw	629	ILE
1	Nw	650	ASP
1	Nw	655	THR
1	Nx	32	LYS
1	Nx	42	LYS
1	Nx	47	GLU
1	Nx	66	MET
1	Nx	72	LEU
1	Nx	84	VAL
1	Nx	91	ASN
1	Nx	112	VAL
1	Nx	118	VAL
1	Nx	124	ASP
1	Nx	130	LYS
1	Nx	139	LYS
1	Nx	141	LYS
1	Nx	149	LYS
1	Nx	166	ASN
1	Nx	178	LEU
1	Nx	194	LEU
1	Nx	195	LEU
1	Nx	199	GLU
1	Nx	205	MET
1	Nx	215	LYS
1	Nx	219	ILE
1	Nx	229	GLU
1	Nx	239	VAL
1	Nx	271	TYR
1	Nx	290	VAL
1	Nx	293	VAL
1	Nx	297	THR
1	Nx	298	LYS
1	Nx	303	ASP
1	Nx	307	SER
1	Nx	317	LYS
1	Nx	321	GLU
1	Nx	357	GLU
1	Nx	383	LEU
1	Nx	385	THR
1	Nx	398	ASP
1	Nx	404	LEU
1	Nx	415	VAL

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Mol	Chain	Res	Type
1	Nx	417	ILE
1	Nx	430	ARG
1	Nx	438	ASP
1	Nx	456	TYR
1	Nx	467	TRP
1	Nx	470	LEU
1	Nx	483	ASN
1	Nx	487	THR
1	Nx	495	ASN
1	Nx	499	ILE
1	Nx	503	ILE
1	Nx	505	LEU
1	Nx	513	GLN
1	Nx	517	LEU
1	Nx	526	THR
1	Nx	536	TYR
1	Nx	550	ARG
1	Nx	553	VAL
1	Nx	571	ARG
1	Nx	572	LEU
1	Nx	590	GLN
1	Nx	592	LEU
1	Nx	606	VAL
1	Nx	612	ASN
1	Nx	617	VAL
1	Nx	629	ILE
1	Nx	633	ARG
1	Nx	650	ASP
1	Nz	14	THR
1	Nz	32	LYS
1	Nz	42	LYS
1	Nz	66	MET
1	Nz	69	MET
1	Nz	72	LEU
1	Nz	76	ASN
1	Nz	88	THR
1	Nz	109	ASN
1	Nz	112	VAL
1	Nz	139	LYS
1	Nz	145	ILE
1	Nz	149	LYS
1	Nz	166	ASN

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Mol	Chain	Res	Type
1	Nz	182	ILE
1	Nz	191	SER
1	Nz	195	LEU
1	Nz	199	GLU
1	Nz	209	ASP
1	Nz	219	ILE
1	Nz	239	VAL
1	Nz	271	TYR
1	Nz	281	ILE
1	Nz	298	LYS
1	Nz	303	ASP
1	Nz	304	ILE
1	Nz	317	LYS
1	Nz	344	LEU
1	Nz	372	LEU
1	Nz	404	LEU
1	Nz	415	VAL
1	Nz	417	ILE
1	Nz	430	ARG
1	Nz	437	THR
1	Nz	438	ASP
1	Nz	450	ILE
1	Nz	466	ARG
1	Nz	467	TRP
1	Nz	470	LEU
1	Nz	483	ASN
1	Nz	487	THR
1	Nz	495	ASN
1	Nz	503	ILE
1	Nz	505	LEU
1	Nz	513	GLN
1	Nz	531	ASP
1	Nz	535	LEU
1	Nz	536	TYR
1	Nz	550	ARG
1	Nz	552	ASN
1	Nz	564	ILE
1	Nz	567	SER
1	Nz	571	ARG
1	Nz	574	GLU
1	Nz	592	LEU
1	Nz	596	LYS

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Mol	Chain	Res	Type
1	Nz	606	VAL
1	Nz	617	VAL
1	Nz	629	ILE
1	Nz	650	ASP
2	OC	4	ASP
2	OC	23	VAL
2	OC	37	LYS
2	OC	41	LEU
2	OC	45	ILE
2	OC	49	ILE
2	OC	51	VAL
2	OC	57	LYS
2	OC	58	ILE
2	OC	64	ARG
2	OC	65	THR
2	OC	80	ASP
2	OC	112	ILE
2	OC	118	ARG
2	OC	122	THR
2	OC	127	ILE
2	OC	136	ASN
2	OC	137	VAL
2	OC	159	LEU
2	OD	14	ASP
2	OD	23	VAL
2	OD	24	GLU
2	OD	33	THR
2	OD	37	LYS
2	OD	41	LEU
2	OD	45	ILE
2	OD	48	LYS
2	OD	51	VAL
2	OD	54	MET
2	OD	56	ARG
2	OD	58	ILE
2	OD	72	THR
2	OD	74	MET
2	OD	95	GLN
2	OD	97	ASN
2	OD	112	ILE
2	OD	113	VAL
2	OD	115	GLN

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Mol	Chain	Res	Type
2	OD	121	LYS
2	OD	127	ILE
2	OD	129	ILE
2	OD	137	VAL
2	OD	141	GLN
2	OD	142	LEU
2	OD	147	ASN
2	OD	150	ILE
2	OD	152	THR
2	OD	159	LEU
2	OE	1	MET
2	OE	6	VAL
2	OE	12	SER
2	OE	14	ASP
2	OE	19	ASN
2	OE	23	VAL
2	OE	25	ILE
2	OE	37	LYS
2	OE	45	ILE
2	OE	49	ILE
2	OE	56	ARG
2	OE	57	LYS
2	OE	58	ILE
2	OE	63	ASP
2	OE	64	ARG
2	OE	72	THR
2	OE	77	GLU
2	OE	97	ASN
2	OE	100	THR
2	OE	112	ILE
2	OE	113	VAL
2	OE	121	LYS
2	OE	137	VAL
2	OE	150	ILE
2	OE	152	THR
2	OE	154	GLU
2	OF	3	VAL
2	OF	14	ASP
2	OF	19	ASN
2	OF	23	VAL
2	OF	25	ILE
2	OF	37	LYS

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Mol	Chain	Res	Type
2	OF	41	LEU
2	OF	45	ILE
2	OF	49	ILE
2	OF	56	ARG
2	OF	57	LYS
2	OF	58	ILE
2	OF	65	THR
2	OF	72	THR
2	OF	80	ASP
2	OF	98	GLU
2	OF	113	VAL
2	OF	115	GLN
2	OF	121	LYS
2	OF	127	ILE
2	OF	129	ILE
2	OF	132	LEU
2	OF	137	VAL
2	OF	140	LEU
2	OF	141	GLN
2	OF	142	LEU
2	OF	152	THR
2	OF	156	THR
2	OF	157	LEU
2	OG	6	VAL
2	OG	7	THR
2	OG	23	VAL
2	OG	28	LEU
2	OG	33	THR
2	OG	37	LYS
2	OG	41	LEU
2	OG	45	ILE
2	OG	49	ILE
2	OG	51	VAL
2	OG	54	MET
2	OG	56	ARG
2	OG	57	LYS
2	OG	58	ILE
2	OG	59	ASN
2	OG	65	THR
2	OG	72	THR
2	OG	80	ASP
2	OG	97	ASN

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Mol	Chain	Res	Type
2	OG	113	VAL
2	OG	115	GLN
2	OG	127	ILE
2	OG	137	VAL
2	OG	141	GLN
2	OG	142	LEU
2	OG	150	ILE
2	OG	156	THR
2	OG	163	GLU
2	OH	12	SER
2	OH	23	VAL
2	OH	37	LYS
2	OH	41	LEU
2	OH	45	ILE
2	OH	48	LYS
2	OH	56	ARG
2	OH	60	VAL
2	OH	64	ARG
2	OH	67	ASP
2	OH	113	VAL
2	OH	115	GLN
2	OH	127	ILE
2	OH	136	ASN
2	OH	137	VAL
2	OH	141	GLN
2	OH	150	ILE
2	OH	152	THR
2	OI	1	MET
2	OI	6	VAL
2	OI	14	ASP
2	OI	19	ASN
2	OI	23	VAL
2	OI	37	LYS
2	OI	45	ILE
2	OI	49	ILE
2	OI	54	MET
2	OI	56	ARG
2	OI	57	LYS
2	OI	58	ILE
2	OI	64	ARG
2	OI	72	THR
2	OI	112	ILE

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Mol	Chain	Res	Type
2	OI	113	VAL
2	OI	127	ILE
2	OI	137	VAL
2	OI	142	LEU
2	OI	152	THR
2	OI	156	THR
2	OJ	6	VAL
2	OJ	7	THR
2	OJ	17	ARG
2	OJ	19	ASN
2	OJ	23	VAL
2	OJ	25	ILE
2	OJ	26	SER
2	OJ	33	THR
2	OJ	37	LYS
2	OJ	41	LEU
2	OJ	45	ILE
2	OJ	49	ILE
2	OJ	51	VAL
2	OJ	56	ARG
2	OJ	57	LYS
2	OJ	58	ILE
2	OJ	64	ARG
2	OJ	72	THR
2	OJ	113	VAL
2	OJ	115	GLN
2	OJ	127	ILE
2	OJ	137	VAL
2	OJ	142	LEU
2	OJ	150	ILE
2	OJ	151	GLN
2	OJ	156	THR
2	OK	8	ARG
2	OK	19	ASN
2	OK	23	VAL
2	OK	25	ILE
2	OK	28	LEU
2	OK	37	LYS
2	OK	45	ILE
2	OK	49	ILE
2	OK	56	ARG
2	OK	57	LYS

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Mol	Chain	Res	Type
2	OK	58	ILE
2	OK	60	VAL
2	OK	64	ARG
2	OK	72	THR
2	OK	97	ASN
2	OK	112	ILE
2	OK	113	VAL
2	OK	115	GLN
2	OK	127	ILE
2	OK	132	LEU
2	OK	137	VAL
2	OL	1	MET
2	OL	6	VAL
2	OL	17	ARG
2	OL	19	ASN
2	OL	23	VAL
2	OL	25	ILE
2	OL	37	LYS
2	OL	41	LEU
2	OL	45	ILE
2	OL	49	ILE
2	OL	56	ARG
2	OL	57	LYS
2	OL	58	ILE
2	OL	60	VAL
2	OL	72	THR
2	OL	98	GLU
2	OL	112	ILE
2	OL	113	VAL
2	OL	115	GLN
2	OL	118	ARG
2	OL	127	ILE
2	OL	128	GLU
2	OL	132	LEU
2	OL	136	ASN
2	OL	137	VAL
2	OL	149	GLU
2	OL	150	ILE
2	OL	156	THR
2	OL	157	LEU
2	OM	6	VAL
2	OM	19	ASN

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Mol	Chain	Res	Type
2	OM	23	VAL
2	OM	41	LEU
2	OM	45	ILE
2	OM	48	LYS
2	OM	49	ILE
2	OM	51	VAL
2	OM	56	ARG
2	OM	57	LYS
2	OM	58	ILE
2	OM	63	ASP
2	OM	64	ARG
2	OM	95	GLN
2	OM	97	ASN
2	OM	112	ILE
2	OM	113	VAL
2	OM	115	GLN
2	OM	127	ILE
2	OM	137	VAL
2	OM	142	LEU
2	OM	150	ILE
2	ON	1	MET
2	ON	6	VAL
2	ON	14	ASP
2	ON	19	ASN
2	ON	23	VAL
2	ON	25	ILE
2	ON	37	LYS
2	ON	45	ILE
2	ON	48	LYS
2	ON	49	ILE
2	ON	51	VAL
2	ON	57	LYS
2	ON	58	ILE
2	ON	64	ARG
2	ON	72	THR
2	ON	82	ARG
2	ON	97	ASN
2	ON	112	ILE
2	ON	113	VAL
2	ON	118	ARG
2	ON	127	ILE
2	ON	137	VAL

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Mol	Chain	Res	Type
2	ON	141	GLN
2	ON	150	ILE
2	ON	156	THR
2	ON	159	LEU
2	OO	6	VAL
2	OO	17	ARG
2	OO	19	ASN
2	OO	23	VAL
2	OO	28	LEU
2	OO	30	GLN
2	OO	31	ASN
2	OO	37	LYS
2	OO	41	LEU
2	OO	45	ILE
2	OO	49	ILE
2	OO	56	ARG
2	OO	57	LYS
2	OO	58	ILE
2	OO	67	ASP
2	OO	68	ASP
2	OO	82	ARG
2	OO	112	ILE
2	OO	113	VAL
2	OO	121	LYS
2	OO	127	ILE
2	OO	137	VAL
2	OO	140	LEU
2	OO	141	GLN
2	OO	150	ILE
2	OO	152	THR
2	OO	163	GLU
2	Oh	3	VAL
2	Oh	14	ASP
2	Oh	23	VAL
2	Oh	37	LYS
2	Oh	45	ILE
2	Oh	48	LYS
2	Oh	49	ILE
2	Oh	51	VAL
2	Oh	54	MET
2	Oh	56	ARG
2	Oh	57	LYS

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Mol	Chain	Res	Type
2	Oh	58	ILE
2	Oh	98	GLU
2	Oh	112	ILE
2	Oh	113	VAL
2	Oh	115	GLN
2	Oh	121	LYS
2	Oh	127	ILE
2	Oh	137	VAL
2	Oh	140	LEU
2	Oh	142	LEU
2	Oh	152	THR
2	Oh	156	THR
2	Oi	6	VAL
2	Oi	12	SER
2	Oi	19	ASN
2	Oi	23	VAL
2	Oi	24	GLU
2	Oi	37	LYS
2	Oi	41	LEU
2	Oi	45	ILE
2	Oi	48	LYS
2	Oi	49	ILE
2	Oi	51	VAL
2	Oi	58	ILE
2	Oi	60	VAL
2	Oi	72	THR
2	Oi	113	VAL
2	Oi	127	ILE
2	Oi	129	ILE
2	Oi	137	VAL
2	Oi	142	LEU
2	Oi	150	ILE
2	Oj	1	MET
2	Oj	3	VAL
2	Oj	6	VAL
2	Oj	17	ARG
2	Oj	19	ASN
2	Oj	23	VAL
2	Oj	24	GLU
2	Oj	45	ILE
2	Oj	48	LYS
2	Oj	49	ILE

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Mol	Chain	Res	Type
2	Oj	54	MET
2	Oj	56	ARG
2	Oj	58	ILE
2	Oj	60	VAL
2	Oj	63	ASP
2	Oj	64	ARG
2	Oj	110	SER
2	Oj	112	ILE
2	Oj	113	VAL
2	Oj	115	GLN
2	Oj	127	ILE
2	Oj	129	ILE
2	Oj	136	ASN
2	Oj	137	VAL
2	Oj	141	GLN
2	Ok	14	ASP
2	Ok	24	GLU
2	Ok	26	SER
2	Ok	37	LYS
2	Ok	42	PRO
2	Ok	45	ILE
2	Ok	48	LYS
2	Ok	49	ILE
2	Ok	51	VAL
2	Ok	54	MET
2	Ok	56	ARG
2	Ok	57	LYS
2	Ok	58	ILE
2	Ok	60	VAL
2	Ok	64	ARG
2	Ok	112	ILE
2	Ok	113	VAL
2	Ok	127	ILE
2	Ok	129	ILE
2	Ok	137	VAL
2	Ok	141	GLN
2	Ok	142	LEU
2	Ok	150	ILE
2	Ok	152	THR
2	Ol	6	VAL
2	Ol	8	ARG
2	Ol	19	ASN

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Mol	Chain	Res	Type
2	Ol	23	VAL
2	Ol	25	ILE
2	Ol	37	LYS
2	Ol	41	LEU
2	Ol	45	ILE
2	Ol	46	VAL
2	Ol	47	GLU
2	Ol	48	LYS
2	Ol	54	MET
2	Ol	56	ARG
2	Ol	57	LYS
2	Ol	58	ILE
2	Ol	72	THR
2	Ol	103	LYS
2	Ol	112	ILE
2	Ol	113	VAL
2	Ol	127	ILE
2	Ol	135	THR
2	Ol	137	VAL
2	Ol	142	LEU
2	Ol	150	ILE
2	Om	6	VAL
2	Om	17	ARG
2	Om	19	ASN
2	Om	23	VAL
2	Om	25	ILE
2	Om	26	SER
2	Om	30	GLN
2	Om	31	ASN
2	Om	37	LYS
2	Om	45	ILE
2	Om	49	ILE
2	Om	56	ARG
2	Om	57	LYS
2	Om	64	ARG
2	Om	70	THR
2	Om	112	ILE
2	Om	113	VAL
2	Om	115	GLN
2	Om	127	ILE
2	Om	136	ASN
2	Om	137	VAL

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Mol	Chain	Res	Type
2	Om	141	GLN
2	Om	149	GLU
2	Om	150	ILE
2	Om	156	THR
2	Om	159	LEU
2	On	6	VAL
2	On	14	ASP
2	On	17	ARG
2	On	19	ASN
2	On	23	VAL
2	On	30	GLN
2	On	37	LYS
2	On	41	LEU
2	On	45	ILE
2	On	49	ILE
2	On	56	ARG
2	On	57	LYS
2	On	58	ILE
2	On	60	VAL
2	On	64	ARG
2	On	67	ASP
2	On	72	THR
2	On	98	GLU
2	On	112	ILE
2	On	113	VAL
2	On	121	LYS
2	On	127	ILE
2	On	136	ASN
2	On	137	VAL
2	On	142	LEU
2	On	152	THR
2	On	156	THR
2	On	157	LEU
2	On	163	GLU
2	Oo	14	ASP
2	Oo	19	ASN
2	Oo	23	VAL
2	Oo	25	ILE
2	Oo	37	LYS
2	Oo	45	ILE
2	Oo	49	ILE
2	Oo	51	VAL

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Mol	Chain	Res	Type
2	Oo	54	MET
2	Oo	57	LYS
2	Oo	58	ILE
2	Oo	60	VAL
2	Oo	86	VAL
2	Oo	90	SER
2	Oo	95	GLN
2	Oo	97	ASN
2	Oo	100	THR
2	Oo	112	ILE
2	Oo	113	VAL
2	Oo	115	GLN
2	Oo	122	THR
2	Oo	127	ILE
2	Oo	129	ILE
2	Oo	135	THR
2	Oo	136	ASN
2	Oo	137	VAL
2	Oo	149	GLU
2	Oo	150	ILE
2	Oo	152	THR
2	Oo	156	THR
2	Op	3	VAL
2	Op	6	VAL
2	Op	8	ARG
2	Op	17	ARG
2	Op	19	ASN
2	Op	23	VAL
2	Op	25	ILE
2	Op	26	SER
2	Op	37	LYS
2	Op	41	LEU
2	Op	45	ILE
2	Op	48	LYS
2	Op	49	ILE
2	Op	56	ARG
2	Op	57	LYS
2	Op	58	ILE
2	Op	60	VAL
2	Op	64	ARG
2	Op	72	THR
2	Op	112	ILE

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Mol	Chain	Res	Type
2	Op	113	VAL
2	Op	121	LYS
2	Op	127	ILE
2	Op	128	GLU
2	Op	135	THR
2	Op	136	ASN
2	Op	137	VAL
2	Op	150	ILE
2	Op	159	LEU
2	Oq	6	VAL
2	Oq	14	ASP
2	Oq	19	ASN
2	Oq	23	VAL
2	Oq	30	GLN
2	Oq	37	LYS
2	Oq	45	ILE
2	Oq	48	LYS
2	Oq	49	ILE
2	Oq	54	MET
2	Oq	56	ARG
2	Oq	57	LYS
2	Oq	58	ILE
2	Oq	60	VAL
2	Oq	71	VAL
2	Oq	72	THR
2	Oq	76	ASP
2	Oq	112	ILE
2	Oq	113	VAL
2	Oq	115	GLN
2	Oq	122	THR
2	Oq	127	ILE
2	Oq	137	VAL
2	Oq	142	LEU
2	Oq	150	ILE
2	Oq	151	GLN
2	Oq	152	THR
2	Oq	154	GLU
2	Oq	156	THR
2	Oq	157	LEU
2	Or	6	VAL
2	Or	14	ASP
2	Or	19	ASN

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Mol	Chain	Res	Type
2	Or	23	VAL
2	Or	24	GLU
2	Or	37	LYS
2	Or	45	ILE
2	Or	48	LYS
2	Or	49	ILE
2	Or	51	VAL
2	Or	54	MET
2	Or	56	ARG
2	Or	57	LYS
2	Or	58	ILE
2	Or	67	ASP
2	Or	71	VAL
2	Or	72	THR
2	Or	113	VAL
2	Or	115	GLN
2	Or	121	LYS
2	Or	127	ILE
2	Or	135	THR
2	Or	137	VAL
2	Or	149	GLU
2	Or	150	ILE
2	Or	152	THR
2	Or	154	GLU
2	Or	156	THR
2	Os	6	VAL
2	Os	14	ASP
2	Os	17	ARG
2	Os	19	ASN
2	Os	23	VAL
2	Os	37	LYS
2	Os	41	LEU
2	Os	45	ILE
2	Os	48	LYS
2	Os	49	ILE
2	Os	54	MET
2	Os	56	ARG
2	Os	57	LYS
2	Os	58	ILE
2	Os	60	VAL
2	Os	72	THR
2	Os	77	GLU

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Mol	Chain	Res	Type
2	Os	112	ILE
2	Os	113	VAL
2	Os	115	GLN
2	Os	127	ILE
2	Os	136	ASN
2	Os	137	VAL
2	Os	150	ILE
2	Os	152	THR
2	Ot	1	MET
2	Ot	14	ASP
2	Ot	23	VAL
2	Ot	30	GLN
2	Ot	37	LYS
2	Ot	45	ILE
2	Ot	53	PHE
2	Ot	56	ARG
2	Ot	57	LYS
2	Ot	58	ILE
2	Ot	64	ARG
2	Ot	112	ILE
2	Ot	115	GLN
2	Ot	121	LYS
2	Ot	127	ILE
2	Ot	136	ASN
2	Ot	146	SER
2	Ot	150	ILE
2	Ot	157	LEU
2	PC	17	ARG
2	PC	23	VAL
2	PC	37	LYS
2	PC	41	LEU
2	PC	45	ILE
2	PC	49	ILE
2	PC	51	VAL
2	PC	57	LYS
2	PC	58	ILE
2	PC	60	VAL
2	PC	64	ARG
2	PC	95	GLN
2	PC	112	ILE
2	PC	122	THR
2	PC	127	ILE

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Mol	Chain	Res	Type
2	PC	137	VAL
2	PC	142	LEU
2	PC	148	ASN
2	PC	156	THR
2	PD	19	ASN
2	PD	23	VAL
2	PD	28	LEU
2	PD	33	THR
2	PD	37	LYS
2	PD	39	THR
2	PD	41	LEU
2	PD	45	ILE
2	PD	51	VAL
2	PD	56	ARG
2	PD	57	LYS
2	PD	58	ILE
2	PD	64	ARG
2	PD	72	THR
2	PD	89	GLN
2	PD	97	ASN
2	PD	112	ILE
2	PD	113	VAL
2	PD	115	GLN
2	PD	121	LYS
2	PD	127	ILE
2	PD	137	VAL
2	PD	141	GLN
2	PD	142	LEU
2	PD	147	ASN
2	PD	154	GLU
2	PD	156	THR
2	PD	160	ASP
2	PE	1	MET
2	PE	12	SER
2	PE	19	ASN
2	PE	23	VAL
2	PE	25	ILE
2	PE	37	LYS
2	PE	45	ILE
2	PE	49	ILE
2	PE	51	VAL
2	PE	56	ARG

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Mol	Chain	Res	Type
2	PE	57	LYS
2	PE	58	ILE
2	PE	63	ASP
2	PE	64	ARG
2	PE	72	THR
2	PE	73	VAL
2	PE	76	ASP
2	PE	91	ILE
2	PE	97	ASN
2	PE	112	ILE
2	PE	113	VAL
2	PE	121	LYS
2	PE	127	ILE
2	PE	137	VAL
2	PE	150	ILE
2	PE	152	THR
2	PE	154	GLU
2	PE	163	GLU
2	PF	1	MET
2	PF	6	VAL
2	PF	19	ASN
2	PF	23	VAL
2	PF	37	LYS
2	PF	41	LEU
2	PF	45	ILE
2	PF	47	GLU
2	PF	49	ILE
2	PF	56	ARG
2	PF	58	ILE
2	PF	64	ARG
2	PF	80	ASP
2	PF	86	VAL
2	PF	113	VAL
2	PF	115	GLN
2	PF	121	LYS
2	PF	127	ILE
2	PF	137	VAL
2	PF	140	LEU
2	PF	142	LEU
2	PF	150	ILE
2	PF	156	THR
2	PF	157	LEU

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Mol	Chain	Res	Type
2	PG	1	MET
2	PG	3	VAL
2	PG	6	VAL
2	PG	7	THR
2	PG	14	ASP
2	PG	19	ASN
2	PG	23	VAL
2	PG	25	ILE
2	PG	41	LEU
2	PG	45	ILE
2	PG	48	LYS
2	PG	49	ILE
2	PG	51	VAL
2	PG	56	ARG
2	PG	57	LYS
2	PG	58	ILE
2	PG	60	VAL
2	PG	64	ARG
2	PG	72	THR
2	PG	80	ASP
2	PG	113	VAL
2	PG	123	VAL
2	PG	127	ILE
2	PG	135	THR
2	PG	137	VAL
2	PG	140	LEU
2	PG	141	GLN
2	PG	142	LEU
2	PG	146	SER
2	PG	150	ILE
2	PG	151	GLN
2	PG	156	THR
2	PH	6	VAL
2	PH	19	ASN
2	PH	23	VAL
2	PH	25	ILE
2	PH	26	SER
2	PH	37	LYS
2	PH	41	LEU
2	PH	45	ILE
2	PH	48	LYS
2	PH	56	ARG

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Mol	Chain	Res	Type
2	PH	64	ARG
2	PH	67	ASP
2	PH	72	THR
2	PH	89	GLN
2	PH	112	ILE
2	PH	113	VAL
2	PH	127	ILE
2	PH	129	ILE
2	PH	137	VAL
2	PH	141	GLN
2	PH	150	ILE
2	PH	152	THR
2	PI	1	MET
2	PI	6	VAL
2	PI	19	ASN
2	PI	23	VAL
2	PI	24	GLU
2	PI	37	LYS
2	PI	45	ILE
2	PI	49	ILE
2	PI	51	VAL
2	PI	54	MET
2	PI	56	ARG
2	PI	57	LYS
2	PI	58	ILE
2	PI	64	ARG
2	PI	72	THR
2	PI	100	THR
2	PI	112	ILE
2	PI	113	VAL
2	PI	115	GLN
2	PI	127	ILE
2	PI	137	VAL
2	PI	142	LEU
2	PI	149	GLU
2	PI	150	ILE
2	PI	152	THR
2	PI	157	LEU
2	PJ	6	VAL
2	PJ	7	THR
2	PJ	19	ASN
2	PJ	23	VAL

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Mol	Chain	Res	Type
2	PJ	28	LEU
2	PJ	33	THR
2	PJ	37	LYS
2	PJ	45	ILE
2	PJ	46	VAL
2	PJ	48	LYS
2	PJ	49	ILE
2	PJ	51	VAL
2	PJ	56	ARG
2	PJ	57	LYS
2	PJ	58	ILE
2	PJ	64	ARG
2	PJ	72	THR
2	PJ	112	ILE
2	PJ	113	VAL
2	PJ	115	GLN
2	PJ	127	ILE
2	PJ	135	THR
2	PJ	137	VAL
2	PJ	142	LEU
2	PJ	150	ILE
2	PJ	151	GLN
2	PJ	152	THR
2	PJ	156	THR
2	PK	12	SER
2	PK	19	ASN
2	PK	23	VAL
2	PK	37	LYS
2	PK	39	THR
2	PK	45	ILE
2	PK	51	VAL
2	PK	53	PHE
2	PK	58	ILE
2	PK	89	GLN
2	PK	95	GLN
2	PK	97	ASN
2	PK	112	ILE
2	PK	113	VAL
2	PK	115	GLN
2	PK	127	ILE
2	PK	128	GLU
2	PK	137	VAL

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Mol	Chain	Res	Type
2	PK	150	ILE
2	PL	1	MET
2	PL	3	VAL
2	PL	14	ASP
2	PL	19	ASN
2	PL	23	VAL
2	PL	37	LYS
2	PL	41	LEU
2	PL	45	ILE
2	PL	48	LYS
2	PL	49	ILE
2	PL	51	VAL
2	PL	56	ARG
2	PL	57	LYS
2	PL	58	ILE
2	PL	60	VAL
2	PL	64	ARG
2	PL	72	THR
2	PL	112	ILE
2	PL	113	VAL
2	PL	115	GLN
2	PL	118	ARG
2	PL	127	ILE
2	PL	128	GLU
2	PL	132	LEU
2	PL	137	VAL
2	PL	141	GLN
2	PL	149	GLU
2	PL	150	ILE
2	PL	152	THR
2	PL	156	THR
2	PM	23	VAL
2	PM	26	SER
2	PM	37	LYS
2	PM	45	ILE
2	PM	48	LYS
2	PM	51	VAL
2	PM	54	MET
2	PM	56	ARG
2	PM	57	LYS
2	PM	58	ILE
2	PM	72	THR

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Mol	Chain	Res	Type
2	PM	112	ILE
2	PM	113	VAL
2	PM	115	GLN
2	PM	127	ILE
2	PM	136	ASN
2	PM	137	VAL
2	PM	142	LEU
2	PM	150	ILE
2	PM	156	THR
2	PM	160	ASP
2	PN	19	ASN
2	PN	23	VAL
2	PN	37	LYS
2	PN	45	ILE
2	PN	48	LYS
2	PN	49	ILE
2	PN	56	ARG
2	PN	57	LYS
2	PN	58	ILE
2	PN	60	VAL
2	PN	64	ARG
2	PN	72	THR
2	PN	112	ILE
2	PN	113	VAL
2	PN	115	GLN
2	PN	122	THR
2	PN	128	GLU
2	PN	135	THR
2	PN	137	VAL
2	PN	141	GLN
2	PN	146	SER
2	PN	149	GLU
2	PN	150	ILE
2	PN	154	GLU
2	PN	156	THR
2	PN	159	LEU
2	PO	17	ARG
2	PO	19	ASN
2	PO	23	VAL
2	PO	26	SER
2	PO	31	ASN
2	PO	37	LYS

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Mol	Chain	Res	Type
2	PO	45	ILE
2	PO	49	ILE
2	PO	56	ARG
2	PO	57	LYS
2	PO	58	ILE
2	PO	67	ASP
2	PO	112	ILE
2	PO	113	VAL
2	PO	115	GLN
2	PO	121	LYS
2	PO	127	ILE
2	PO	137	VAL
2	PO	146	SER
2	PO	150	ILE
2	PO	159	LEU
2	Ph	19	ASN
2	Ph	23	VAL
2	Ph	37	LYS
2	Ph	41	LEU
2	Ph	45	ILE
2	Ph	48	LYS
2	Ph	49	ILE
2	Ph	54	MET
2	Ph	56	ARG
2	Ph	58	ILE
2	Ph	112	ILE
2	Ph	113	VAL
2	Ph	115	GLN
2	Ph	121	LYS
2	Ph	127	ILE
2	Ph	137	VAL
2	Ph	140	LEU
2	Ph	143	ASP
2	Ph	159	LEU
2	Pi	6	VAL
2	Pi	12	SER
2	Pi	19	ASN
2	Pi	23	VAL
2	Pi	24	GLU
2	Pi	26	SER
2	Pi	37	LYS
2	Pi	41	LEU

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Mol	Chain	Res	Type
2	Pi	45	ILE
2	Pi	48	LYS
2	Pi	49	ILE
2	Pi	54	MET
2	Pi	56	ARG
2	Pi	58	ILE
2	Pi	60	VAL
2	Pi	64	ARG
2	Pi	68	ASP
2	Pi	72	THR
2	Pi	95	GLN
2	Pi	100	THR
2	Pi	112	ILE
2	Pi	113	VAL
2	Pi	115	GLN
2	Pi	121	LYS
2	Pi	126	GLU
2	Pi	127	ILE
2	Pi	137	VAL
2	Pi	142	LEU
2	Pi	150	ILE
2	Pj	6	VAL
2	Pj	19	ASN
2	Pj	23	VAL
2	Pj	24	GLU
2	Pj	25	ILE
2	Pj	37	LYS
2	Pj	41	LEU
2	Pj	45	ILE
2	Pj	49	ILE
2	Pj	51	VAL
2	Pj	56	ARG
2	Pj	57	LYS
2	Pj	58	ILE
2	Pj	60	VAL
2	Pj	63	ASP
2	Pj	72	THR
2	Pj	77	GLU
2	Pj	97	ASN
2	Pj	112	ILE
2	Pj	113	VAL
2	Pj	115	GLN

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Mol	Chain	Res	Type
2	Pj	127	ILE
2	Pj	137	VAL
2	Pj	141	GLN
2	Pk	1	MET
2	Pk	6	VAL
2	Pk	7	THR
2	Pk	12	SER
2	Pk	14	ASP
2	Pk	19	ASN
2	Pk	23	VAL
2	Pk	37	LYS
2	Pk	45	ILE
2	Pk	49	ILE
2	Pk	51	VAL
2	Pk	54	MET
2	Pk	56	ARG
2	Pk	57	LYS
2	Pk	58	ILE
2	Pk	60	VAL
2	Pk	64	ARG
2	Pk	80	ASP
2	Pk	98	GLU
2	Pk	112	ILE
2	Pk	113	VAL
2	Pk	121	LYS
2	Pk	127	ILE
2	Pk	128	GLU
2	Pk	137	VAL
2	Pk	140	LEU
2	Pk	142	LEU
2	Pk	152	THR
2	Pk	156	THR
2	Pk	157	LEU
2	Pl	19	ASN
2	Pl	23	VAL
2	Pl	30	GLN
2	Pl	31	ASN
2	Pl	37	LYS
2	Pl	41	LEU
2	Pl	45	ILE
2	Pl	48	LYS
2	Pl	49	ILE

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Mol	Chain	Res	Type
2	Pl	51	VAL
2	Pl	54	MET
2	Pl	56	ARG
2	Pl	58	ILE
2	Pl	65	THR
2	Pl	72	THR
2	Pl	103	LYS
2	Pl	112	ILE
2	Pl	113	VAL
2	Pl	115	GLN
2	Pl	121	LYS
2	Pl	127	ILE
2	Pl	137	VAL
2	Pl	142	LEU
2	Pl	150	ILE
2	Pl	152	THR
2	Pl	156	THR
2	Pl	159	LEU
2	Pm	19	ASN
2	Pm	23	VAL
2	Pm	41	LEU
2	Pm	45	ILE
2	Pm	48	LYS
2	Pm	51	VAL
2	Pm	56	ARG
2	Pm	57	LYS
2	Pm	58	ILE
2	Pm	63	ASP
2	Pm	64	ARG
2	Pm	112	ILE
2	Pm	113	VAL
2	Pm	115	GLN
2	Pm	127	ILE
2	Pm	136	ASN
2	Pm	137	VAL
2	Pm	141	GLN
2	Pn	14	ASP
2	Pn	19	ASN
2	Pn	23	VAL
2	Pn	37	LYS
2	Pn	45	ILE
2	Pn	48	LYS

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Mol	Chain	Res	Type
2	Pn	51	VAL
2	Pn	54	MET
2	Pn	56	ARG
2	Pn	57	LYS
2	Pn	58	ILE
2	Pn	64	ARG
2	Pn	67	ASP
2	Pn	72	THR
2	Pn	110	SER
2	Pn	112	ILE
2	Pn	113	VAL
2	Pn	115	GLN
2	Pn	121	LYS
2	Pn	127	ILE
2	Pn	129	ILE
2	Pn	130	LYS
2	Pn	136	ASN
2	Pn	137	VAL
2	Pn	142	LEU
2	Pn	152	THR
2	Pn	156	THR
2	Pn	157	LEU
2	Po	1	MET
2	Po	3	VAL
2	Po	5	ASP
2	Po	6	VAL
2	Po	17	ARG
2	Po	23	VAL
2	Po	37	LYS
2	Po	41	LEU
2	Po	45	ILE
2	Po	49	ILE
2	Po	51	VAL
2	Po	56	ARG
2	Po	57	LYS
2	Po	58	ILE
2	Po	60	VAL
2	Po	72	THR
2	Po	86	VAL
2	Po	112	ILE
2	Po	113	VAL
2	Po	115	GLN

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Mol	Chain	Res	Type
2	Po	122	THR
2	Po	127	ILE
2	Po	136	ASN
2	Po	137	VAL
2	Po	149	GLU
2	Po	150	ILE
2	Po	152	THR
2	Po	156	THR
2	Pp	1	MET
2	Pp	19	ASN
2	Pp	23	VAL
2	Pp	25	ILE
2	Pp	28	LEU
2	Pp	37	LYS
2	Pp	39	THR
2	Pp	45	ILE
2	Pp	49	ILE
2	Pp	57	LYS
2	Pp	58	ILE
2	Pp	60	VAL
2	Pp	64	ARG
2	Pp	67	ASP
2	Pp	89	GLN
2	Pp	112	ILE
2	Pp	113	VAL
2	Pp	127	ILE
2	Pp	132	LEU
2	Pp	137	VAL
2	Pp	150	ILE
2	Pq	6	VAL
2	Pq	14	ASP
2	Pq	17	ARG
2	Pq	19	ASN
2	Pq	23	VAL
2	Pq	37	LYS
2	Pq	45	ILE
2	Pq	49	ILE
2	Pq	57	LYS
2	Pq	58	ILE
2	Pq	60	VAL
2	Pq	72	THR
2	Pq	112	ILE

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Mol	Chain	Res	Type
2	Pq	113	VAL
2	Pq	121	LYS
2	Pq	122	THR
2	Pq	127	ILE
2	Pq	137	VAL
2	Pq	141	GLN
2	Pq	150	ILE
2	Pq	152	THR
2	Pq	157	LEU
2	Pr	3	VAL
2	Pr	6	VAL
2	Pr	19	ASN
2	Pr	23	VAL
2	Pr	26	SER
2	Pr	41	LEU
2	Pr	45	ILE
2	Pr	48	LYS
2	Pr	49	ILE
2	Pr	51	VAL
2	Pr	56	ARG
2	Pr	57	LYS
2	Pr	58	ILE
2	Pr	64	ARG
2	Pr	95	GLN
2	Pr	113	VAL
2	Pr	127	ILE
2	Pr	132	LEU
2	Pr	137	VAL
2	Pr	150	ILE
2	Ps	1	MET
2	Ps	3	VAL
2	Ps	6	VAL
2	Ps	19	ASN
2	Ps	23	VAL
2	Ps	25	ILE
2	Ps	37	LYS
2	Ps	45	ILE
2	Ps	48	LYS
2	Ps	49	ILE
2	Ps	56	ARG
2	Ps	57	LYS
2	Ps	58	ILE

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Mol	Chain	Res	Type
2	Ps	60	VAL
2	Ps	64	ARG
2	Ps	72	THR
2	Ps	112	ILE
2	Ps	113	VAL
2	Ps	118	ARG
2	Ps	127	ILE
2	Ps	137	VAL
2	Ps	154	GLU
2	Pt	1	MET
2	Pt	3	VAL
2	Pt	14	ASP
2	Pt	19	ASN
2	Pt	23	VAL
2	Pt	31	ASN
2	Pt	37	LYS
2	Pt	45	ILE
2	Pt	48	LYS
2	Pt	49	ILE
2	Pt	56	ARG
2	Pt	57	LYS
2	Pt	58	ILE
2	Pt	64	ARG
2	Pt	112	ILE
2	Pt	115	GLN
2	Pt	121	LYS
2	Pt	127	ILE
2	Pt	137	VAL
2	Pt	150	ILE
2	Pt	163	GLU
2	RC	4	ASP
2	RC	17	ARG
2	RC	23	VAL
2	RC	25	ILE
2	RC	37	LYS
2	RC	41	LEU
2	RC	45	ILE
2	RC	48	LYS
2	RC	49	ILE
2	RC	51	VAL
2	RC	56	ARG
2	RC	57	LYS

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Mol	Chain	Res	Type
2	RC	58	ILE
2	RC	64	ARG
2	RC	65	THR
2	RC	68	ASP
2	RC	112	ILE
2	RC	118	ARG
2	RC	127	ILE
2	RC	137	VAL
2	RC	141	GLN
2	RC	142	LEU
2	RC	146	SER
2	RC	152	THR
2	RD	14	ASP
2	RD	19	ASN
2	RD	23	VAL
2	RD	24	GLU
2	RD	37	LYS
2	RD	41	LEU
2	RD	45	ILE
2	RD	51	VAL
2	RD	54	MET
2	RD	56	ARG
2	RD	57	LYS
2	RD	58	ILE
2	RD	68	ASP
2	RD	72	THR
2	RD	73	VAL
2	RD	112	ILE
2	RD	113	VAL
2	RD	115	GLN
2	RD	121	LYS
2	RD	127	ILE
2	RD	137	VAL
2	RD	141	GLN
2	RD	142	LEU
2	RD	147	ASN
2	RD	150	ILE
2	RD	151	GLN
2	RD	152	THR
2	RD	156	THR
2	RD	160	ASP
2	RE	19	ASN

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Mol	Chain	Res	Type
2	RE	23	VAL
2	RE	45	ILE
2	RE	48	LYS
2	RE	49	ILE
2	RE	51	VAL
2	RE	56	ARG
2	RE	57	LYS
2	RE	58	ILE
2	RE	64	ARG
2	RE	72	THR
2	RE	91	ILE
2	RE	95	GLN
2	RE	112	ILE
2	RE	113	VAL
2	RE	115	GLN
2	RE	121	LYS
2	RE	122	THR
2	RE	127	ILE
2	RE	136	ASN
2	RE	137	VAL
2	RE	152	THR
2	RE	154	GLU
2	RE	156	THR
2	RF	3	VAL
2	RF	4	ASP
2	RF	6	VAL
2	RF	14	ASP
2	RF	17	ARG
2	RF	23	VAL
2	RF	26	SER
2	RF	37	LYS
2	RF	45	ILE
2	RF	49	ILE
2	RF	56	ARG
2	RF	58	ILE
2	RF	65	THR
2	RF	72	THR
2	RF	76	ASP
2	RF	86	VAL
2	RF	112	ILE
2	RF	113	VAL
2	RF	115	GLN

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Mol	Chain	Res	Type
2	RF	121	LYS
2	RF	127	ILE
2	RF	129	ILE
2	RF	137	VAL
2	RF	141	GLN
2	RF	142	LEU
2	RF	150	ILE
2	RF	152	THR
2	RG	3	VAL
2	RG	6	VAL
2	RG	19	ASN
2	RG	23	VAL
2	RG	25	ILE
2	RG	33	THR
2	RG	37	LYS
2	RG	41	LEU
2	RG	45	ILE
2	RG	46	VAL
2	RG	48	LYS
2	RG	49	ILE
2	RG	56	ARG
2	RG	57	LYS
2	RG	58	ILE
2	RG	59	ASN
2	RG	70	THR
2	RG	72	THR
2	RG	113	VAL
2	RG	115	GLN
2	RG	127	ILE
2	RG	135	THR
2	RG	136	ASN
2	RG	137	VAL
2	RG	141	GLN
2	RG	142	LEU
2	RG	150	ILE
2	RG	152	THR
2	RG	156	THR
2	RG	157	LEU
2	RG	160	ASP
2	RG	163	GLU
2	RH	1	MET
2	RH	6	VAL

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Mol	Chain	Res	Type
2	RH	17	ARG
2	RH	19	ASN
2	RH	23	VAL
2	RH	37	LYS
2	RH	39	THR
2	RH	41	LEU
2	RH	45	ILE
2	RH	49	ILE
2	RH	51	VAL
2	RH	56	ARG
2	RH	64	ARG
2	RH	67	ASP
2	RH	72	THR
2	RH	95	GLN
2	RH	112	ILE
2	RH	113	VAL
2	RH	115	GLN
2	RH	127	ILE
2	RH	136	ASN
2	RH	137	VAL
2	RH	141	GLN
2	RH	152	THR
2	RI	6	VAL
2	RI	7	THR
2	RI	14	ASP
2	RI	17	ARG
2	RI	19	ASN
2	RI	23	VAL
2	RI	28	LEU
2	RI	37	LYS
2	RI	41	LEU
2	RI	45	ILE
2	RI	48	LYS
2	RI	49	ILE
2	RI	56	ARG
2	RI	57	LYS
2	RI	58	ILE
2	RI	64	ARG
2	RI	72	THR
2	RI	98	GLU
2	RI	100	THR
2	RI	112	ILE

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Mol	Chain	Res	Type
2	RI	113	VAL
2	RI	127	ILE
2	RI	142	LEU
2	RI	152	THR
2	RI	157	LEU
2	RJ	7	THR
2	RJ	14	ASP
2	RJ	19	ASN
2	RJ	23	VAL
2	RJ	25	ILE
2	RJ	26	SER
2	RJ	41	LEU
2	RJ	45	ILE
2	RJ	48	LYS
2	RJ	49	ILE
2	RJ	51	VAL
2	RJ	56	ARG
2	RJ	57	LYS
2	RJ	58	ILE
2	RJ	95	GLN
2	RJ	97	ASN
2	RJ	100	THR
2	RJ	113	VAL
2	RJ	127	ILE
2	RJ	135	THR
2	RJ	137	VAL
2	RJ	150	ILE
2	RJ	156	THR
2	RK	1	MET
2	RK	6	VAL
2	RK	8	ARG
2	RK	17	ARG
2	RK	19	ASN
2	RK	23	VAL
2	RK	37	LYS
2	RK	45	ILE
2	RK	56	ARG
2	RK	57	LYS
2	RK	58	ILE
2	RK	60	VAL
2	RK	97	ASN
2	RK	112	ILE

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Mol	Chain	Res	Type
2	RK	113	VAL
2	RK	115	GLN
2	RK	127	ILE
2	RK	137	VAL
2	RK	141	GLN
2	RK	150	ILE
2	RL	1	MET
2	RL	6	VAL
2	RL	19	ASN
2	RL	23	VAL
2	RL	37	LYS
2	RL	41	LEU
2	RL	45	ILE
2	RL	48	LYS
2	RL	49	ILE
2	RL	56	ARG
2	RL	57	LYS
2	RL	58	ILE
2	RL	72	THR
2	RL	98	GLU
2	RL	112	ILE
2	RL	113	VAL
2	RL	127	ILE
2	RL	137	VAL
2	RL	150	ILE
2	RL	152	THR
2	RL	156	THR
2	RL	157	LEU
2	RM	14	ASP
2	RM	19	ASN
2	RM	23	VAL
2	RM	28	LEU
2	RM	41	LEU
2	RM	45	ILE
2	RM	49	ILE
2	RM	51	VAL
2	RM	54	MET
2	RM	56	ARG
2	RM	57	LYS
2	RM	58	ILE
2	RM	59	ASN
2	RM	60	VAL

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Mol	Chain	Res	Type
2	RM	72	THR
2	RM	112	ILE
2	RM	113	VAL
2	RM	115	GLN
2	RM	127	ILE
2	RM	137	VAL
2	RM	142	LEU
2	RM	154	GLU
2	RM	157	LEU
2	RN	1	MET
2	RN	6	VAL
2	RN	19	ASN
2	RN	23	VAL
2	RN	37	LYS
2	RN	45	ILE
2	RN	48	LYS
2	RN	49	ILE
2	RN	51	VAL
2	RN	56	ARG
2	RN	57	LYS
2	RN	58	ILE
2	RN	60	VAL
2	RN	64	ARG
2	RN	72	THR
2	RN	112	ILE
2	RN	113	VAL
2	RN	127	ILE
2	RN	128	GLU
2	RN	137	VAL
2	RN	141	GLN
2	RN	146	SER
2	RN	149	GLU
2	RN	150	ILE
2	RN	156	THR
2	RO	17	ARG
2	RO	23	VAL
2	RO	28	LEU
2	RO	30	GLN
2	RO	45	ILE
2	RO	53	PHE
2	RO	56	ARG
2	RO	57	LYS

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Mol	Chain	Res	Type
2	RO	58	ILE
2	RO	112	ILE
2	RO	113	VAL
2	RO	121	LYS
2	RO	127	ILE
2	RO	137	VAL
2	RO	150	ILE
2	RO	156	THR
2	RR	3	VAL
2	RR	19	ASN
2	RR	23	VAL
2	RR	30	GLN
2	RR	37	LYS
2	RR	41	LEU
2	RR	45	ILE
2	RR	48	LYS
2	RR	49	ILE
2	RR	56	ARG
2	RR	57	LYS
2	RR	58	ILE
2	RR	86	VAL
2	RR	112	ILE
2	RR	113	VAL
2	RR	115	GLN
2	RR	118	ARG
2	RR	127	ILE
2	RR	137	VAL
2	RR	140	LEU
2	RR	142	LEU
2	RR	156	THR
2	RS	3	VAL
2	RS	6	VAL
2	RS	19	ASN
2	RS	23	VAL
2	RS	24	GLU
2	RS	37	LYS
2	RS	39	THR
2	RS	45	ILE
2	RS	49	ILE
2	RS	56	ARG
2	RS	57	LYS
2	RS	58	ILE

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Mol	Chain	Res	Type
2	RS	60	VAL
2	RS	68	ASP
2	RS	72	THR
2	RS	95	GLN
2	RS	97	ASN
2	RS	98	GLU
2	RS	113	VAL
2	RS	127	ILE
2	RS	137	VAL
2	RS	142	LEU
2	RS	150	ILE
2	RT	1	MET
2	RT	3	VAL
2	RT	6	VAL
2	RT	7	THR
2	RT	23	VAL
2	RT	25	ILE
2	RT	37	LYS
2	RT	45	ILE
2	RT	48	LYS
2	RT	49	ILE
2	RT	56	ARG
2	RT	57	LYS
2	RT	58	ILE
2	RT	63	ASP
2	RT	64	ARG
2	RT	65	THR
2	RT	72	THR
2	RT	112	ILE
2	RT	113	VAL
2	RT	127	ILE
2	RT	128	GLU
2	RT	136	ASN
2	RT	137	VAL
2	RT	141	GLN
2	RT	149	GLU
2	RT	156	THR
2	RT	157	LEU
2	Rk	1	MET
2	Rk	6	VAL
2	Rk	19	ASN
2	Rk	23	VAL

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Mol	Chain	Res	Type
2	Rk	25	ILE
2	Rk	37	LYS
2	Rk	41	LEU
2	Rk	45	ILE
2	Rk	49	ILE
2	Rk	51	VAL
2	Rk	56	ARG
2	Rk	57	LYS
2	Rk	58	ILE
2	Rk	60	VAL
2	Rk	64	ARG
2	Rk	70	THR
2	Rk	95	GLN
2	Rk	112	ILE
2	Rk	113	VAL
2	Rk	121	LYS
2	Rk	127	ILE
2	Rk	137	VAL
2	Rk	142	LEU
2	Rk	149	GLU
2	Rk	150	ILE
2	Rk	152	THR
2	Rk	156	THR
2	Rl	6	VAL
2	Rl	14	ASP
2	Rl	19	ASN
2	Rl	23	VAL
2	Rl	37	LYS
2	Rl	41	LEU
2	Rl	45	ILE
2	Rl	48	LYS
2	Rl	51	VAL
2	Rl	54	MET
2	Rl	56	ARG
2	Rl	57	LYS
2	Rl	58	ILE
2	Rl	72	THR
2	Rl	112	ILE
2	Rl	113	VAL
2	Rl	115	GLN
2	Rl	122	THR
2	Rl	127	ILE

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Mol	Chain	Res	Type
2	Rl	135	THR
2	Rl	137	VAL
2	Rl	142	LEU
2	Rl	150	ILE
2	Rm	6	VAL
2	Rm	8	ARG
2	Rm	19	ASN
2	Rm	23	VAL
2	Rm	37	LYS
2	Rm	41	LEU
2	Rm	45	ILE
2	Rm	48	LYS
2	Rm	49	ILE
2	Rm	56	ARG
2	Rm	57	LYS
2	Rm	58	ILE
2	Rm	64	ARG
2	Rm	82	ARG
2	Rm	112	ILE
2	Rm	113	VAL
2	Rm	121	LYS
2	Rm	127	ILE
2	Rm	137	VAL
2	Rm	147	ASN
2	Rm	150	ILE
2	Rm	163	GLU
2	Rn	6	VAL
2	Rn	14	ASP
2	Rn	19	ASN
2	Rn	23	VAL
2	Rn	37	LYS
2	Rn	41	LEU
2	Rn	45	ILE
2	Rn	49	ILE
2	Rn	56	ARG
2	Rn	57	LYS
2	Rn	58	ILE
2	Rn	60	VAL
2	Rn	64	ARG
2	Rn	67	ASP
2	Rn	112	ILE
2	Rn	113	VAL

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Mol	Chain	Res	Type
2	Rn	115	GLN
2	Rn	121	LYS
2	Rn	127	ILE
2	Rn	136	ASN
2	Rn	137	VAL
2	Rn	142	LEU
2	Rn	150	ILE
2	Rn	152	THR
2	Rn	156	THR
2	Rn	157	LEU
2	Ro	6	VAL
2	Ro	14	ASP
2	Ro	19	ASN
2	Ro	23	VAL
2	Ro	28	LEU
2	Ro	37	LYS
2	Ro	45	ILE
2	Ro	48	LYS
2	Ro	51	VAL
2	Ro	54	MET
2	Ro	56	ARG
2	Ro	57	LYS
2	Ro	58	ILE
2	Ro	65	THR
2	Ro	72	THR
2	Ro	113	VAL
2	Ro	115	GLN
2	Ro	122	THR
2	Ro	124	THR
2	Ro	127	ILE
2	Ro	136	ASN
2	Ro	137	VAL
2	Ro	141	GLN
2	Ro	142	LEU
2	Ro	150	ILE
2	Ro	152	THR
2	Ro	159	LEU
2	Ro	160	ASP
2	Rp	19	ASN
2	Rp	23	VAL
2	Rp	24	GLU
2	Rp	25	ILE

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Mol	Chain	Res	Type
2	Rp	37	LYS
2	Rp	45	ILE
2	Rp	49	ILE
2	Rp	51	VAL
2	Rp	56	ARG
2	Rp	58	ILE
2	Rp	60	VAL
2	Rp	64	ARG
2	Rp	82	ARG
2	Rp	100	THR
2	Rp	112	ILE
2	Rp	113	VAL
2	Rp	122	THR
2	Rp	127	ILE
2	Rp	128	GLU
2	Rp	136	ASN
2	Rp	137	VAL
2	Rp	150	ILE
2	Rq	1	MET
2	Rq	14	ASP
2	Rq	19	ASN
2	Rq	23	VAL
2	Rq	37	LYS
2	Rq	45	ILE
2	Rq	48	LYS
2	Rq	49	ILE
2	Rq	56	ARG
2	Rq	57	LYS
2	Rq	58	ILE
2	Rq	60	VAL
2	Rq	64	ARG
2	Rq	72	THR
2	Rq	112	ILE
2	Rq	113	VAL
2	Rq	121	LYS
2	Rq	122	THR
2	Rq	127	ILE
2	Rq	132	LEU
2	Rq	137	VAL
2	Rq	141	GLN
2	Rq	142	LEU
2	Rq	150	ILE

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Mol	Chain	Res	Type
2	Rq	152	THR
2	Rq	154	GLU
2	Rq	156	THR
2	Rr	6	VAL
2	Rr	23	VAL
2	Rr	25	ILE
2	Rr	26	SER
2	Rr	31	ASN
2	Rr	37	LYS
2	Rr	39	THR
2	Rr	41	LEU
2	Rr	45	ILE
2	Rr	48	LYS
2	Rr	51	VAL
2	Rr	54	MET
2	Rr	56	ARG
2	Rr	57	LYS
2	Rr	58	ILE
2	Rr	64	ARG
2	Rr	72	THR
2	Rr	112	ILE
2	Rr	113	VAL
2	Rr	115	GLN
2	Rr	121	LYS
2	Rr	127	ILE
2	Rr	135	THR
2	Rr	136	ASN
2	Rr	137	VAL
2	Rr	142	LEU
2	Rr	150	ILE
2	Rr	152	THR
2	Rs	1	MET
2	Rs	3	VAL
2	Rs	6	VAL
2	Rs	8	ARG
2	Rs	19	ASN
2	Rs	23	VAL
2	Rs	37	LYS
2	Rs	41	LEU
2	Rs	45	ILE
2	Rs	48	LYS
2	Rs	49	ILE

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Mol	Chain	Res	Type
2	Rs	51	VAL
2	Rs	54	MET
2	Rs	56	ARG
2	Rs	57	LYS
2	Rs	58	ILE
2	Rs	64	ARG
2	Rs	72	THR
2	Rs	77	GLU
2	Rs	113	VAL
2	Rs	115	GLN
2	Rs	136	ASN
2	Rs	137	VAL
2	Rs	146	SER
2	Rs	149	GLU
2	Rs	150	ILE
2	Rs	152	THR
2	Rs	159	LEU
2	Rt	1	MET
2	Rt	6	VAL
2	Rt	17	ARG
2	Rt	23	VAL
2	Rt	31	ASN
2	Rt	37	LYS
2	Rt	45	ILE
2	Rt	49	ILE
2	Rt	57	LYS
2	Rt	58	ILE
2	Rt	95	GLN
2	Rt	112	ILE
2	Rt	115	GLN
2	Rt	121	LYS
2	Rt	124	THR
2	Rt	127	ILE
2	Rt	137	VAL
2	Rt	140	LEU
2	Rt	150	ILE
2	Rt	152	THR
2	Rt	159	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (428) such sidechains are listed below:

Mol	Chain	Res	Type
1	K0	200	ASN
1	K0	329	ASN
1	K0	511	GLN
1	K1	98	ASN
1	K1	274	GLN
1	K1	523	ASN
1	K1	590	GLN
1	K2	211	GLN
1	K2	401	GLN
1	K2	440	ASN
1	K2	576	ASN
1	K2	613	ASN
1	K2	630	GLN
1	K3	16	GLN
1	K3	286	ASN
1	K3	483	ASN
1	K3	552	ASN
1	K4	552	ASN
1	K5	211	GLN
1	K5	329	ASN
1	K5	483	ASN
1	K5	641	ASN
1	K6	439	ASN
1	K6	511	GLN
1	K6	552	ASN
1	K6	630	GLN
1	K7	200	ASN
1	K7	462	ASN
1	K7	552	ASN
1	K7	558	ASN
1	K7	576	ASN
1	K7	613	ASN
1	K8	98	ASN
1	K8	144	ASN
1	K8	401	GLN
1	K8	612	ASN
1	K9	519	GLN
1	K9	523	ASN
1	K9	552	ASN
1	L0	465	ASN
1	L0	613	ASN
1	L0	630	GLN
1	L1	98	ASN

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Mol	Chain	Res	Type
1	L1	576	ASN
1	L2	274	GLN
1	L2	641	ASN
1	L3	278	GLN
1	L3	425	ASN
1	L5	439	ASN
1	L5	563	ASN
1	L6	390	GLN
1	L6	440	ASN
1	L6	519	GLN
1	L6	641	ASN
1	L7	274	GLN
1	L7	519	GLN
1	L7	576	ASN
1	L7	613	ASN
1	L8	439	ASN
1	L8	511	GLN
1	L8	552	ASN
1	L9	166	ASN
1	L9	211	GLN
1	L9	274	GLN
1	L9	329	ASN
1	L9	390	GLN
1	L9	523	ASN
1	L9	563	ASN
1	L9	641	ASN
1	LQ	73	GLN
1	LQ	98	ASN
1	LQ	211	GLN
1	LQ	213	ASN
1	LQ	329	ASN
1	LQ	486	GLN
1	LQ	641	ASN
1	LR	34	GLN
1	LR	328	GLN
1	LR	552	ASN
1	LS	286	ASN
1	LS	439	ASN
1	LS	523	ASN
1	LS	552	ASN
1	LS	641	ASN
1	LU	34	GLN

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Mol	Chain	Res	Type
1	LU	274	GLN
1	LU	442	ASN
1	LU	453	ASN
1	LU	483	ASN
1	LV	425	ASN
1	LV	465	ASN
1	LW	291	GLN
1	LW	523	ASN
1	LX	16	GLN
1	LX	371	GLN
1	LX	428	ASN
1	LY	16	GLN
1	LY	98	ASN
1	LY	511	GLN
1	LY	621	ASN
1	LY	630	GLN
1	LZ	98	ASN
1	LZ	483	ASN
1	LZ	511	GLN
1	LZ	523	ASN
1	LZ	590	GLN
1	La	34	GLN
1	La	76	ASN
1	La	440	ASN
1	La	593	GLN
1	Lb	40	GLN
1	Lb	274	GLN
1	Lb	428	ASN
1	Lb	641	ASN
1	Lc	211	GLN
1	Lc	286	ASN
1	Lc	291	GLN
1	Lc	329	ASN
1	Lc	495	ASN
1	Lc	552	ASN
1	Lc	630	GLN
1	Ld	16	GLN
1	Ld	428	ASN
1	Ld	453	ASN
1	Ld	563	ASN
1	Le	34	GLN
1	Le	274	GLN

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Mol	Chain	Res	Type
1	Le	593	GLN
1	Le	630	GLN
1	Lv	211	GLN
1	Lv	523	ASN
1	Lv	576	ASN
1	Lv	577	ASN
1	Lv	613	ASN
1	Lw	213	ASN
1	Lw	439	ASN
1	Lw	465	ASN
1	Lw	513	GLN
1	Lw	552	ASN
1	Lw	593	GLN
1	Lx	34	GLN
1	Lx	462	ASN
1	Lx	630	GLN
1	Lz	34	GLN
1	Lz	211	GLN
1	M0	390	GLN
1	M0	401	GLN
1	M0	483	ASN
1	M0	511	GLN
1	M0	576	ASN
1	M0	613	ASN
1	M0	641	ASN
1	M1	76	ASN
1	M1	392	HIS
1	M1	453	ASN
1	M1	465	ASN
1	M1	523	ASN
1	M1	552	ASN
1	M1	576	ASN
1	M2	16	GLN
1	M2	347	ASN
1	M2	401	GLN
1	M2	612	ASN
1	M2	641	ASN
1	M3	428	ASN
1	M3	563	ASN
1	M4	286	ASN
1	M4	401	GLN
1	M4	523	ASN

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Mol	Chain	Res	Type
1	M5	211	GLN
1	M5	439	ASN
1	M5	552	ASN
1	M5	563	ASN
1	M6	43	GLN
1	M6	439	ASN
1	M6	511	GLN
1	M6	519	GLN
1	M7	76	ASN
1	M7	392	HIS
1	M7	425	ASN
1	M7	523	ASN
1	M7	552	ASN
1	M8	144	ASN
1	M9	274	GLN
1	M9	390	GLN
1	M9	401	GLN
1	M9	462	ASN
1	M9	501	ASN
1	M9	523	ASN
1	MQ	211	GLN
1	MQ	329	ASN
1	MQ	390	GLN
1	MQ	425	ASN
1	MQ	483	ASN
1	MQ	511	GLN
1	MQ	641	ASN
1	MR	274	GLN
1	MR	329	ASN
1	MR	440	ASN
1	MR	462	ASN
1	MS	144	ASN
1	MS	211	GLN
1	MS	286	ASN
1	MS	486	GLN
1	MS	612	ASN
1	MS	636	ASN
1	MU	274	GLN
1	MU	390	GLN
1	MU	440	ASN
1	MU	630	GLN
1	MU	641	ASN

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Mol	Chain	Res	Type
1	MV	16	GLN
1	MV	76	ASN
1	MV	371	GLN
1	MV	401	GLN
1	MV	523	ASN
1	MW	16	GLN
1	MW	511	GLN
1	MW	576	ASN
1	MW	613	ASN
1	MX	519	GLN
1	MY	98	ASN
1	MY	621	ASN
1	MZ	144	ASN
1	MZ	286	ASN
1	MZ	552	ASN
1	MZ	593	GLN
1	MZ	641	ASN
1	Ma	486	GLN
1	Ma	498	GLN
1	Mb	200	ASN
1	Mb	390	GLN
1	Mb	440	ASN
1	Mb	442	ASN
1	Mb	613	ASN
1	Mc	486	GLN
1	Md	211	GLN
1	Md	329	ASN
1	Md	593	GLN
1	Md	630	GLN
1	Me	16	GLN
1	Me	144	ASN
1	Me	200	ASN
1	Me	371	GLN
1	Me	390	GLN
1	Me	442	ASN
1	Me	523	ASN
1	Me	552	ASN
1	Mv	40	GLN
1	Mv	428	ASN
1	Mv	483	ASN
1	Mv	511	GLN
1	Mv	576	ASN

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Mol	Chain	Res	Type
1	Mv	641	ASN
1	Mw	98	ASN
1	Mw	166	ASN
1	Mw	465	ASN
1	Mw	641	ASN
1	Mx	16	GLN
1	Mx	328	GLN
1	Mx	465	ASN
1	NV	34	GLN
1	NV	98	ASN
1	NV	511	GLN
1	NW	16	GLN
1	NW	34	GLN
1	NW	274	GLN
1	NW	511	GLN
1	NX	16	GLN
1	NX	211	GLN
1	NX	329	ASN
1	NX	465	ASN
1	NX	636	ASN
1	NZ	16	GLN
1	NZ	34	GLN
1	NZ	144	ASN
1	NZ	390	GLN
1	NZ	428	ASN
1	Na	91	ASN
1	Na	274	GLN
1	Na	439	ASN
1	Na	519	GLN
1	Nb	43	GLN
1	Nc	34	GLN
1	Nc	428	ASN
1	Nc	511	GLN
1	Nc	519	GLN
1	Nd	211	GLN
1	Nd	329	ASN
1	Nd	428	ASN
1	Nd	576	ASN
1	Nd	621	ASN
1	Ne	211	GLN
1	Ne	274	GLN
1	Ne	329	ASN

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Mol	Chain	Res	Type
1	Ne	511	GLN
1	Ne	630	GLN
1	Nf	98	ASN
1	Nf	329	ASN
1	Nf	440	ASN
1	Nf	613	ASN
1	Ng	286	ASN
1	Ng	552	ASN
1	Ng	641	ASN
1	Nh	211	GLN
1	Nh	329	ASN
1	Nh	511	GLN
1	Nh	552	ASN
1	Ni	43	GLN
1	Ni	630	GLN
1	Ni	641	ASN
1	Nj	274	GLN
1	Nj	286	ASN
1	Nj	511	GLN
1	Nj	552	ASN
1	Nj	576	ASN
1	Nv	34	GLN
1	Nv	390	GLN
1	Nv	621	ASN
1	Nw	621	ASN
1	Nx	328	GLN
1	Nx	483	ASN
1	Nz	211	GLN
1	Nz	291	GLN
1	Nz	612	ASN
2	OE	97	ASN
2	OF	115	GLN
2	OG	83	GLN
2	OG	148	ASN
2	OI	75	ASN
2	OI	136	ASN
2	OJ	95	GLN
2	OJ	148	ASN
2	OJ	151	GLN
2	OK	31	ASN
2	OK	97	ASN
2	OL	136	ASN

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Mol	Chain	Res	Type
2	OL	147	ASN
2	OM	136	ASN
2	OM	148	ASN
2	ON	59	ASN
2	ON	136	ASN
2	OO	89	GLN
2	OO	136	ASN
2	Oh	75	ASN
2	Oi	115	GLN
2	Ok	151	GLN
2	Ol	30	GLN
2	Ol	115	GLN
2	Om	35	GLN
2	Om	148	ASN
2	On	22	GLN
2	On	30	GLN
2	Oo	115	GLN
2	Os	83	GLN
2	Os	115	GLN
2	Ot	89	GLN
2	PD	79	HIS
2	PD	115	GLN
2	PF	59	ASN
2	PF	89	GLN
2	PG	89	GLN
2	PH	79	HIS
2	PJ	75	ASN
2	PJ	147	ASN
2	PJ	151	GLN
2	PK	115	GLN
2	PL	89	GLN
2	PM	148	ASN
2	PN	115	GLN
2	PN	147	ASN
2	PO	115	GLN
2	Pi	22	GLN
2	Pi	115	GLN
2	Pk	136	ASN
2	Pk	147	ASN
2	Pl	59	ASN
2	Pl	83	GLN
2	Pl	95	GLN

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Mol	Chain	Res	Type
2	Pl	147	ASN
2	Pl	148	ASN
2	Pm	30	GLN
2	Pm	115	GLN
2	Po	115	GLN
2	Po	147	ASN
2	Ps	83	GLN
2	Pt	147	ASN
2	RD	151	GLN
2	RE	97	ASN
2	RF	75	ASN
2	RF	151	GLN
2	RG	147	ASN
2	RH	79	HIS
2	RJ	115	GLN
2	RJ	136	ASN
2	RK	31	ASN
2	RK	115	GLN
2	RL	22	GLN
2	RM	31	ASN
2	RM	79	HIS
2	RM	115	GLN
2	RM	147	ASN
2	RM	148	ASN
2	RN	147	ASN
2	RO	136	ASN
2	RR	89	GLN
2	RR	95	GLN
2	RR	141	GLN
2	RS	22	GLN
2	RT	89	GLN
2	Rk	59	ASN
2	Rk	136	ASN
2	Rl	115	GLN
2	Rl	136	ASN
2	Rl	147	ASN
2	Rm	30	GLN
2	Rm	151	GLN
2	Rn	136	ASN
2	Ro	31	ASN
2	Ro	115	GLN
2	Ro	136	ASN

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Mol	Chain	Res	Type
2	Ro	141	GLN
2	Rq	59	ASN
2	Rq	136	ASN
2	Rr	115	GLN
2	Rs	147	ASN
2	Rt	31	ASN
2	Rt	147	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

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.

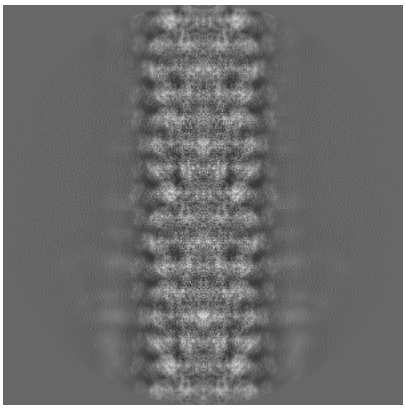
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-48460. These allow visual inspection of the internal detail of the map and identification of artifacts.

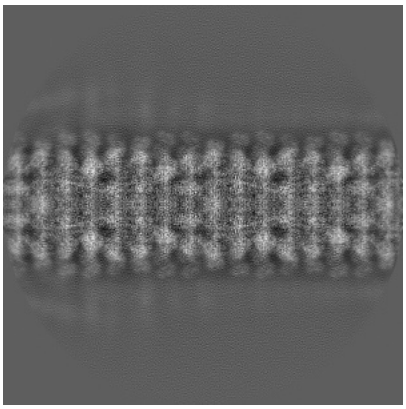
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

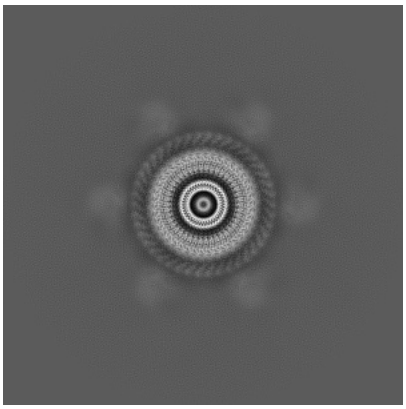
6.1.1 Primary map



X

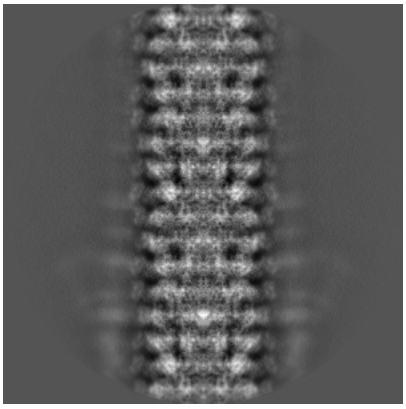


Y

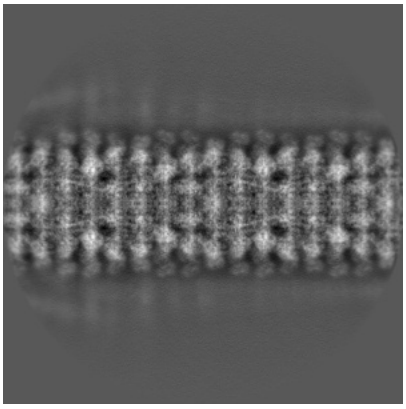


Z

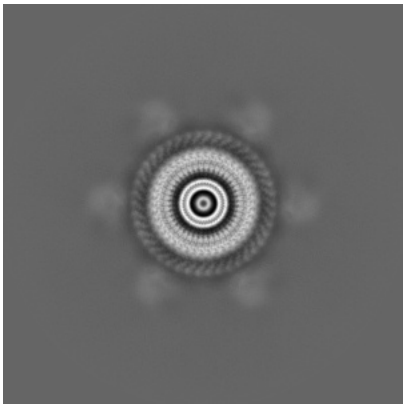
6.1.2 Raw map



X



Y

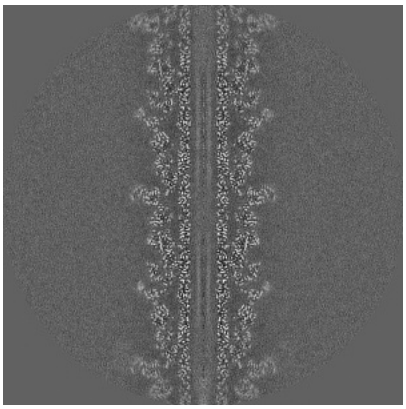


Z

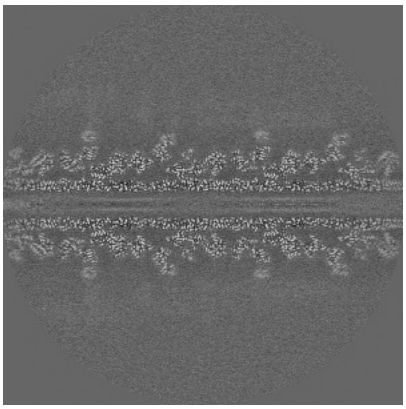
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

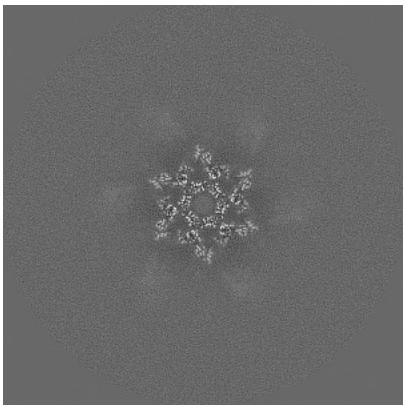
6.2.1 Primary map



X Index: 200

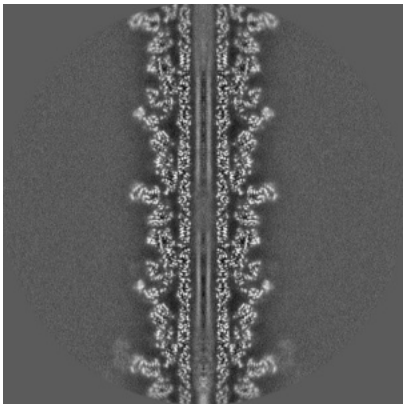


Y Index: 200

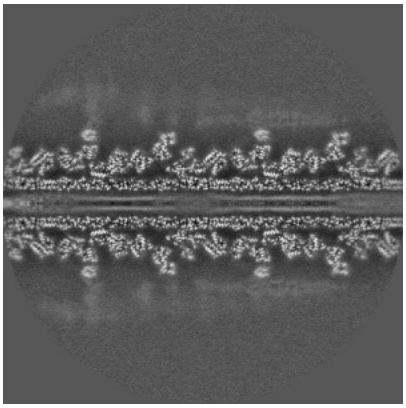


Z Index: 200

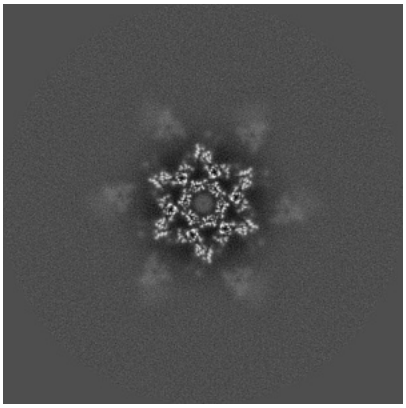
6.2.2 Raw map



X Index: 200



Y Index: 200

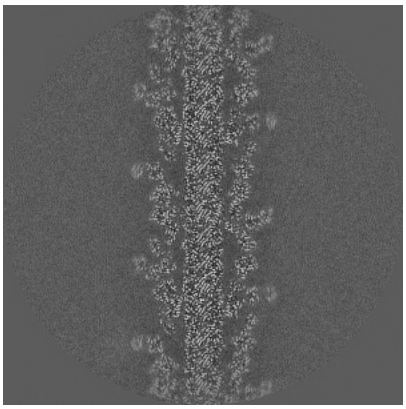


Z Index: 200

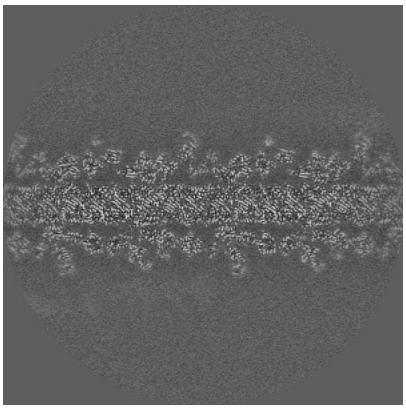
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

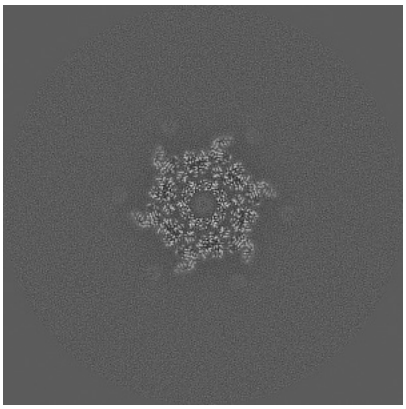
6.3.1 Primary map



X Index: 215

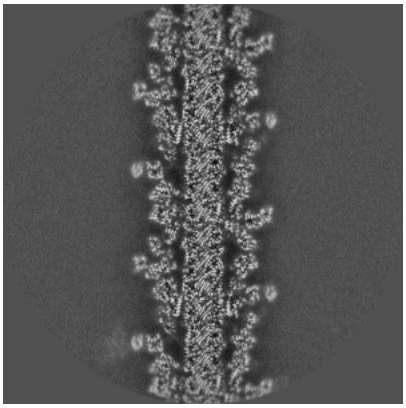


Y Index: 215

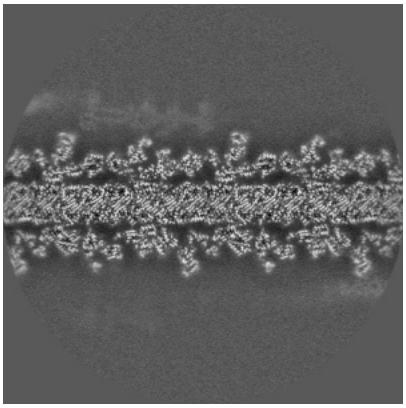


Z Index: 187

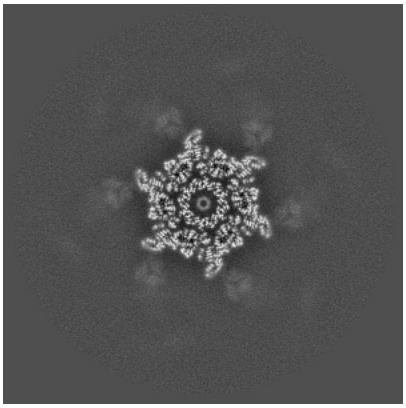
6.3.2 Raw map



X Index: 215



Y Index: 185

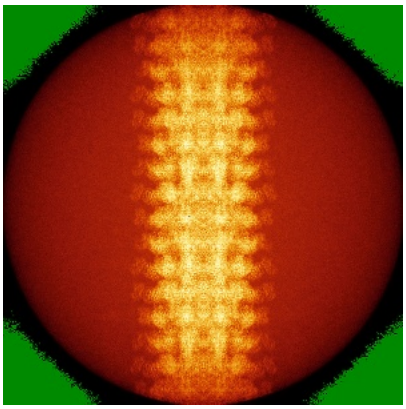


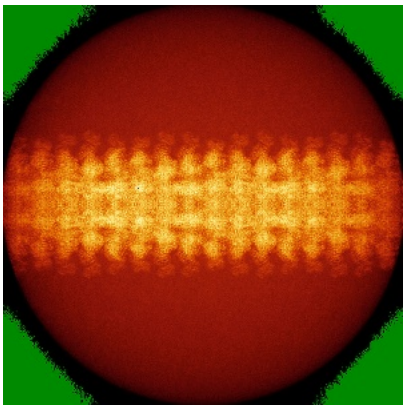
Z Index: 137

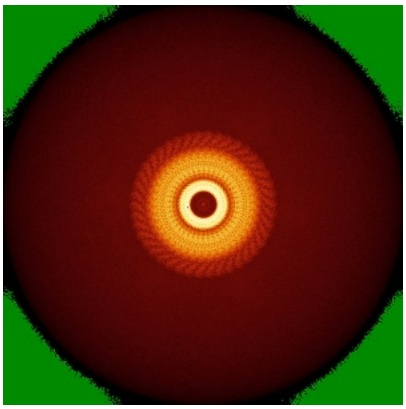
The images above show the largest variance slices of the map in three orthogonal directions.

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

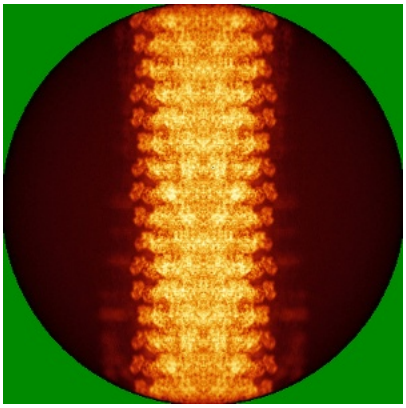
6.4.1 Primary map

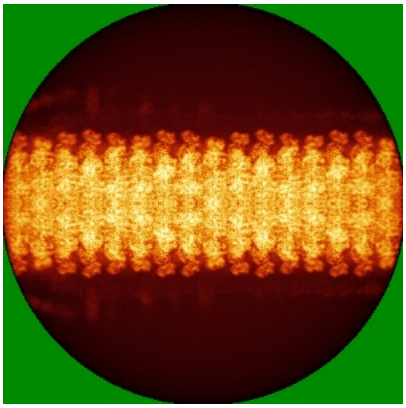

X

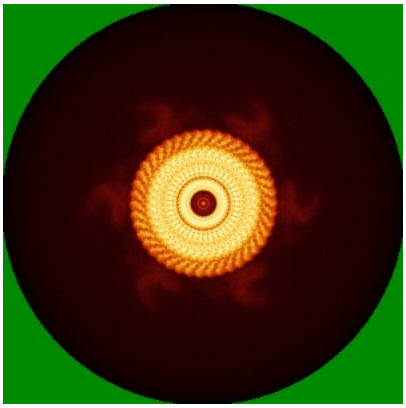

Y


Z

6.4.2 Raw map


X

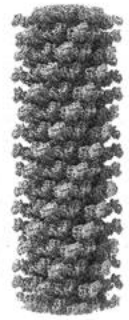

Y


Z

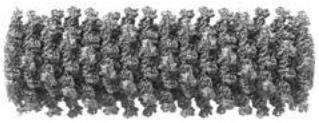
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X

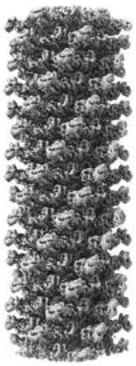


Y

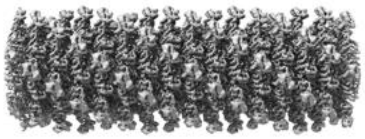
Z

The images above show the 3D surface view of the map at the recommended contour level 0.016. 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.

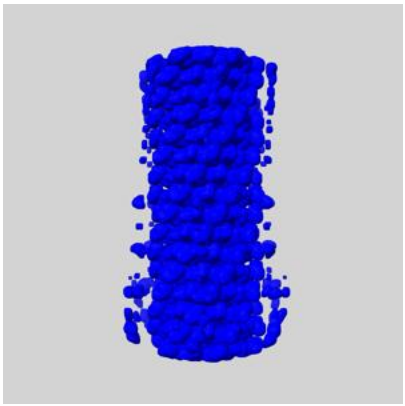
6.6 Mask visualisation

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

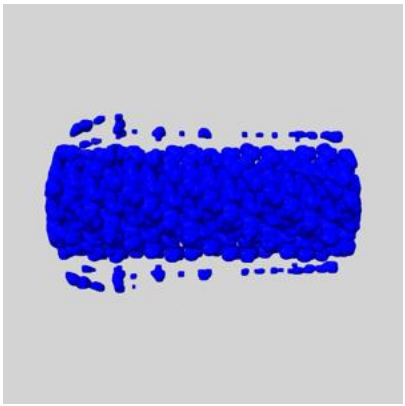
A mask typically either:

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

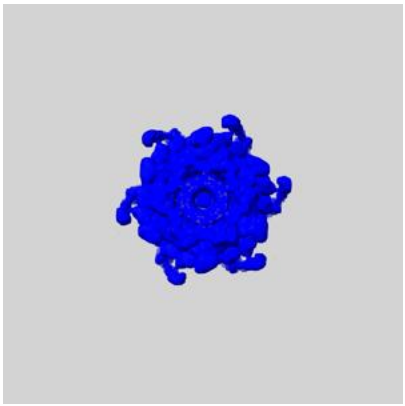
6.6.1 emd_48460_msk_1.map



X



Y

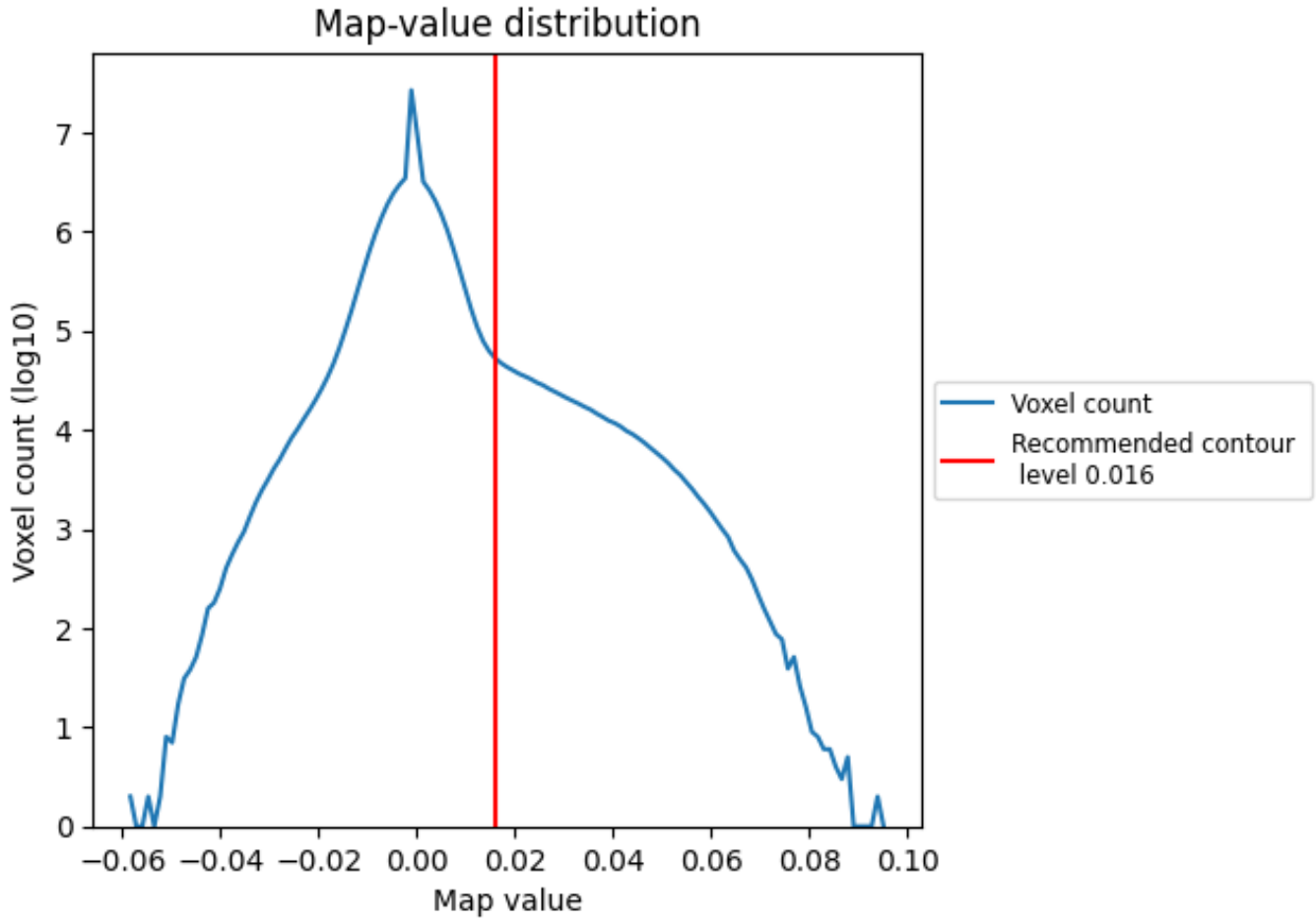


Z

7 Map analysis

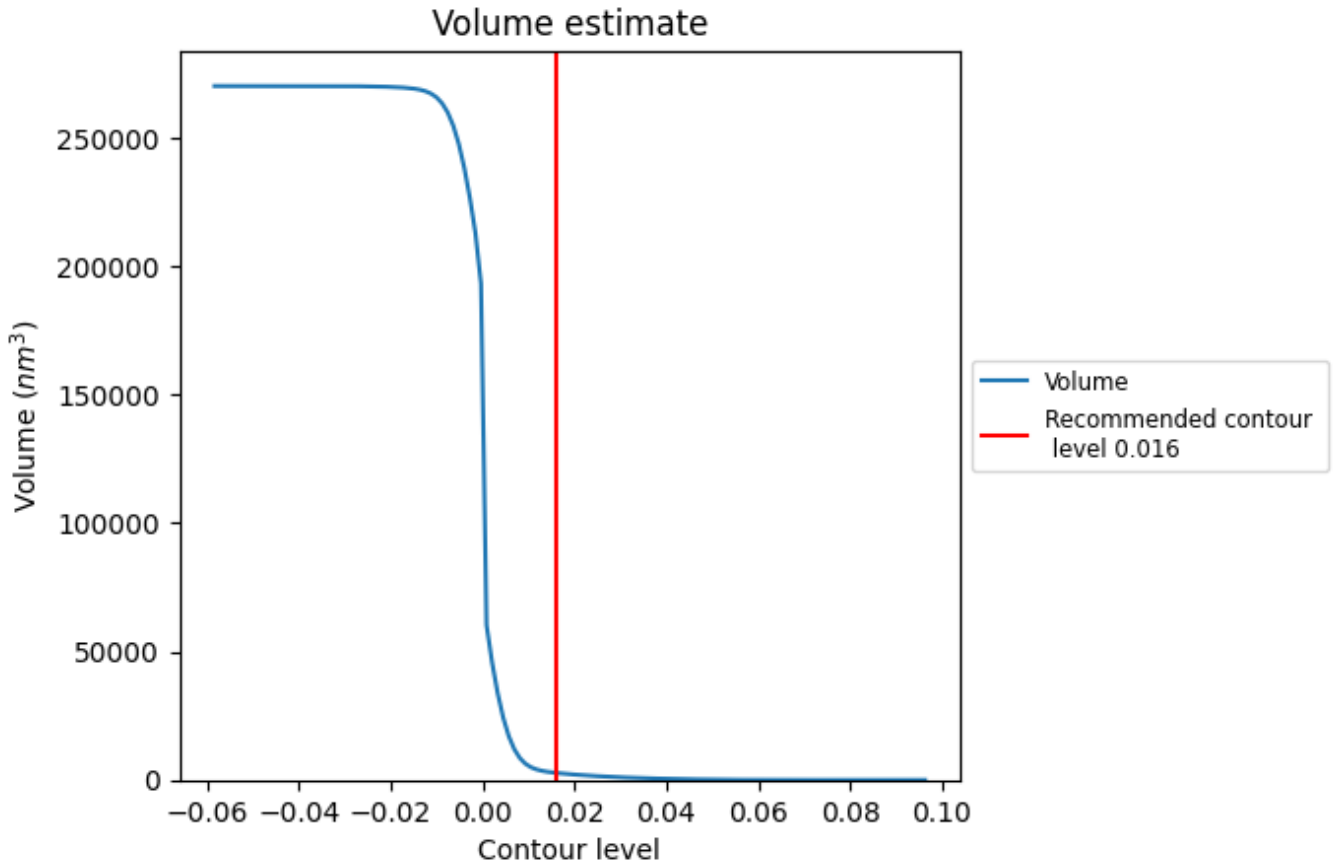
This section contains the results of statistical analysis of the map.

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.

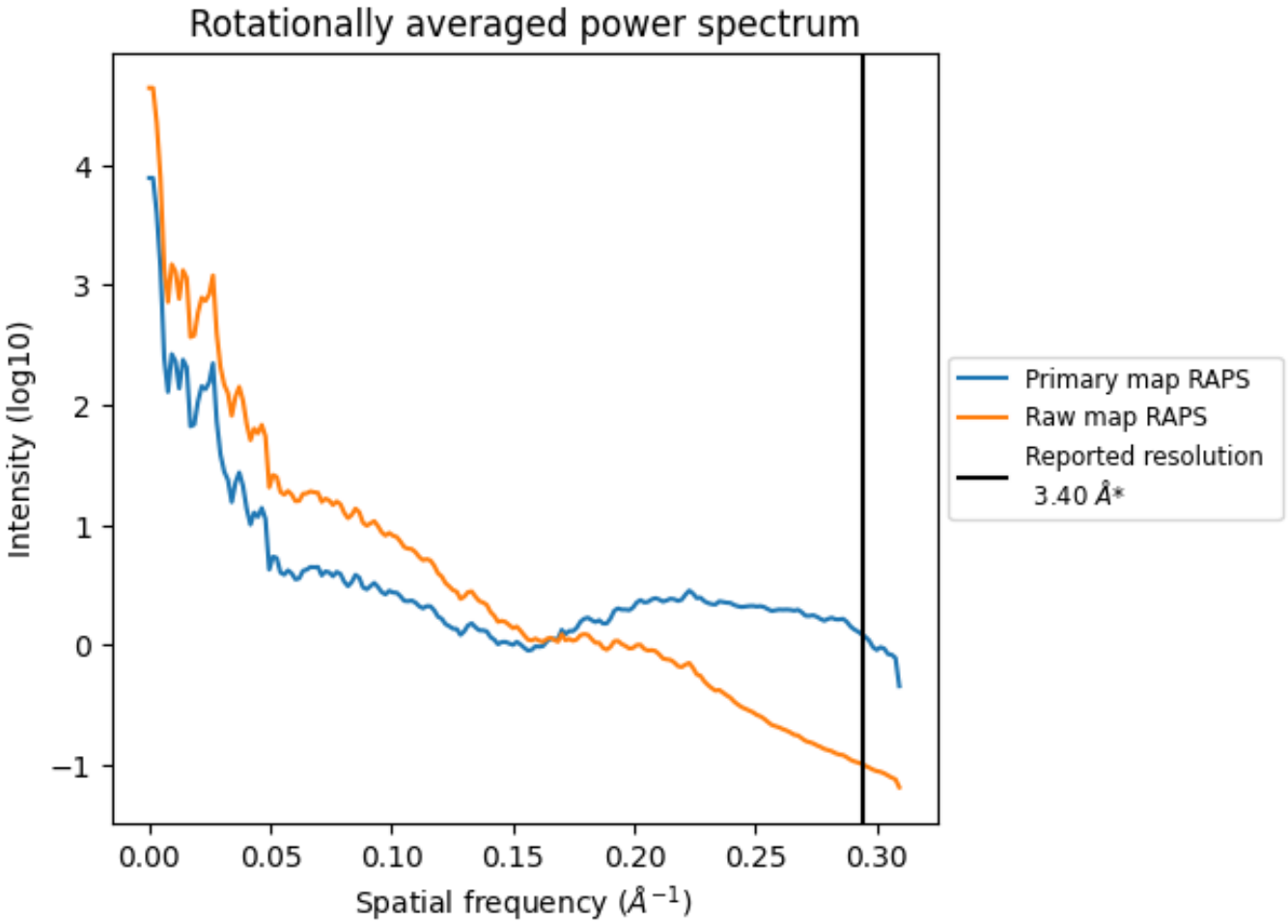
7.2 Volume estimate



The volume at the recommended contour level is 2747 nm^3; this corresponds to an approximate mass of 2481 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)

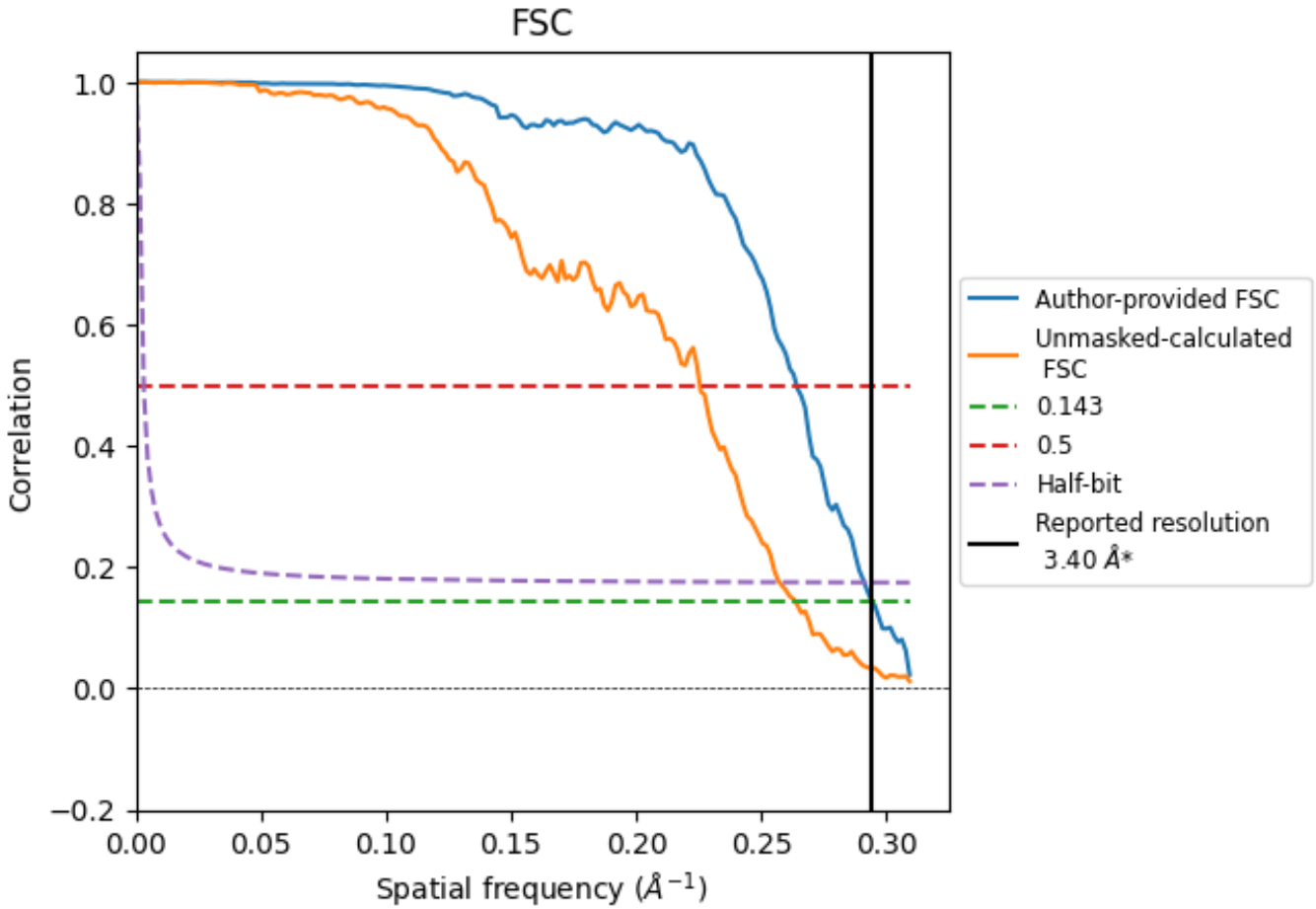


*Reported resolution corresponds to spatial frequency of 0.294 $Å^{-1}$

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 0.294 Å^{-1}

8.2 Resolution estimates (i)

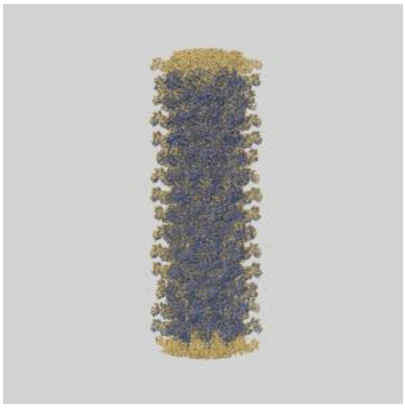
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.40	-	-
Author-provided FSC curve	3.39	3.79	3.43
Unmasked-calculated*	3.79	4.43	3.89

*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 3.79 differs from the reported value 3.4 by more than 10 %

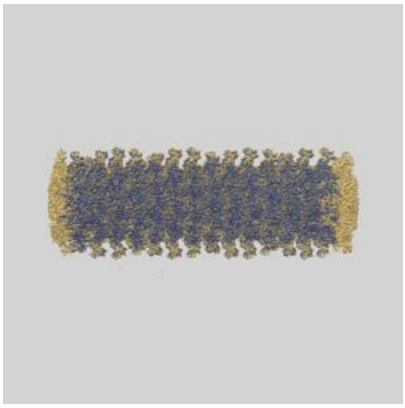
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-48460 and PDB model 9MOH. Per-residue inclusion information can be found in section 3 on page 25.

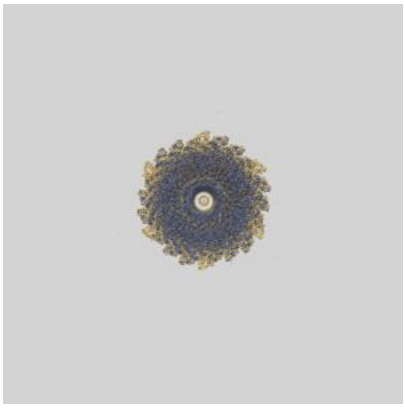
9.1 Map-model overlay



X



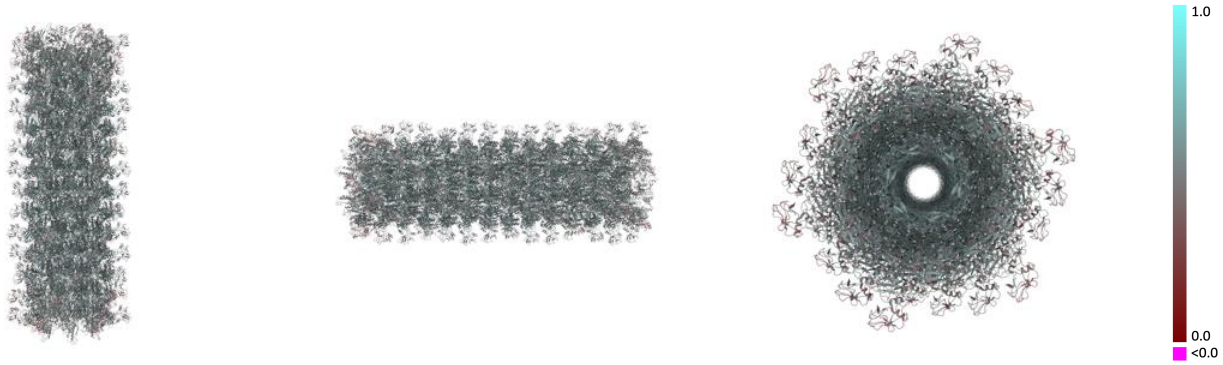
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.016 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.

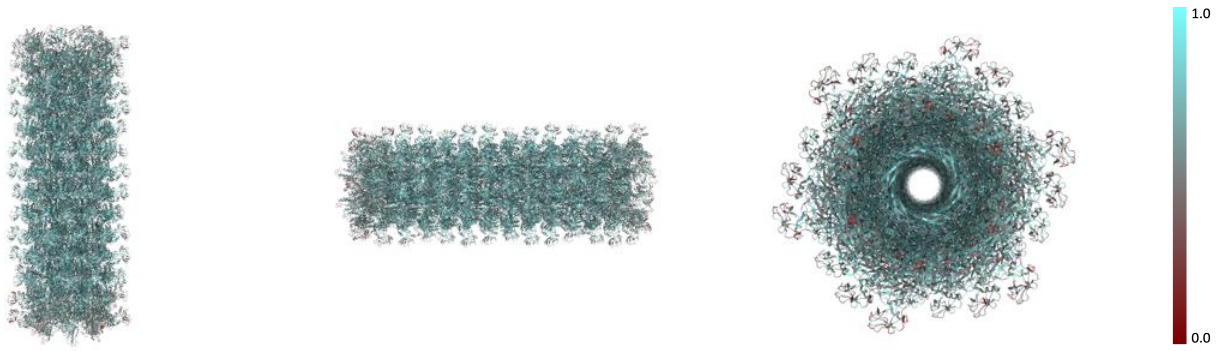
9.2 Q-score mapped to coordinate model



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.

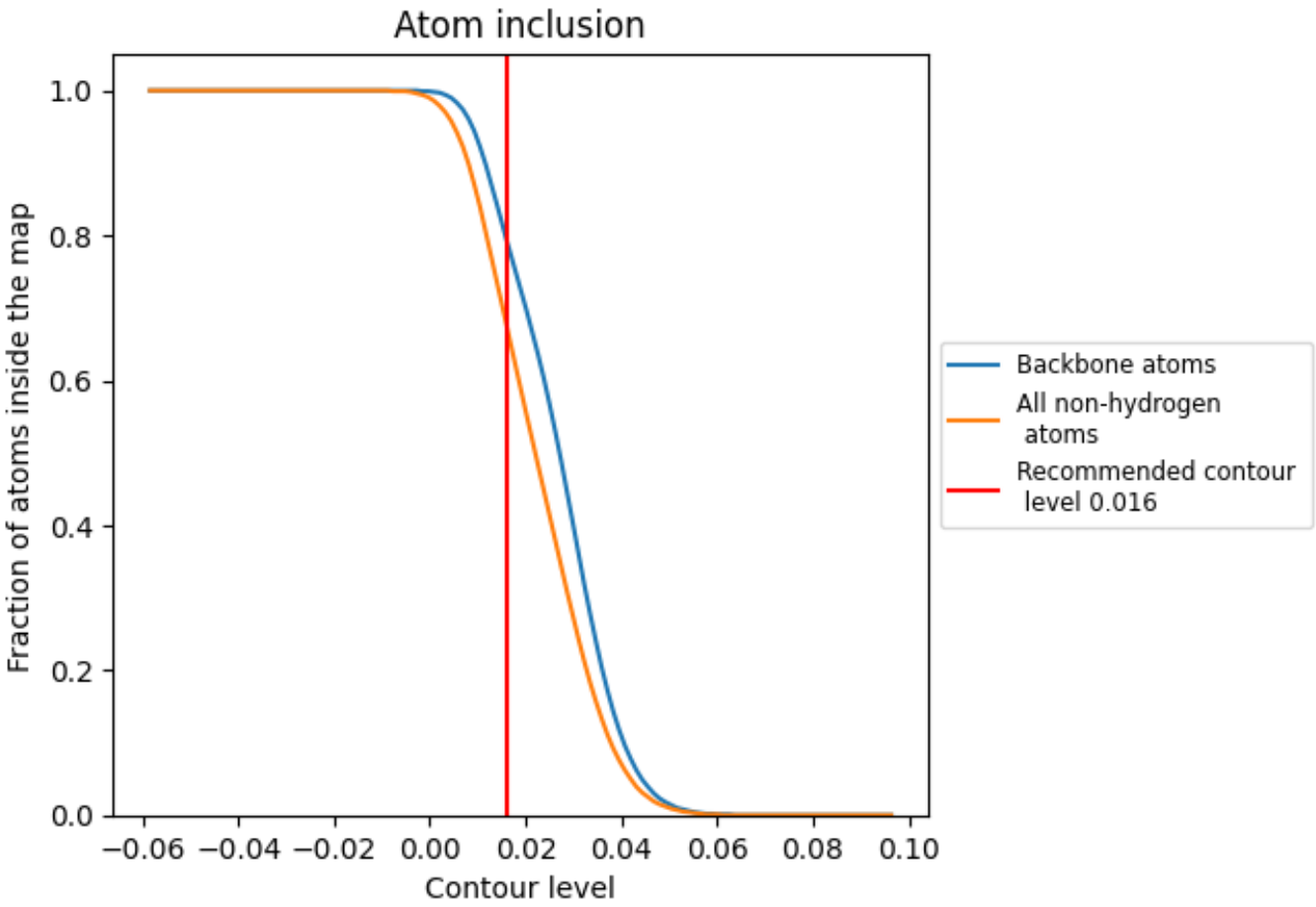
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.016).

9.4 Atom inclusion (i)



At the recommended contour level, 79% of all backbone atoms, 68% 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 (0.016) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6750	0.5240
K0	0.5450	0.4840
K1	0.7110	0.5290
K2	0.7060	0.5320
K3	0.7010	0.5300
K4	0.6970	0.5280
K5	0.7020	0.5310
K6	0.7000	0.5270
K7	0.6910	0.5260
K8	0.6710	0.5200
K9	0.6220	0.5070
L0	0.5470	0.4840
L1	0.7110	0.5290
L2	0.7070	0.5280
L3	0.7060	0.5320
L4	0.6980	0.5260
L5	0.7020	0.5300
L6	0.7010	0.5280
L7	0.6940	0.5270
L8	0.6720	0.5170
L9	0.6210	0.5060
LQ	0.5310	0.4740
LR	0.6200	0.5000
LS	0.6910	0.5230
LU	0.7000	0.5260
LV	0.7130	0.5330
LW	0.7120	0.5330
LX	0.7030	0.5290
LY	0.7000	0.5270
LZ	0.6960	0.5300
La	0.6970	0.5280
Lb	0.6920	0.5270
Lc	0.6700	0.5220
Ld	0.6240	0.5050
Le	0.5430	0.4800

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Chain	Atom inclusion	Q-score
Lv	0.5270	0.4720
Lw	0.6220	0.5010
Lx	0.6850	0.5220
Lz	0.6990	0.5260
M0	0.5450	0.4850
M1	0.7110	0.5310
M2	0.7070	0.5330
M3	0.6990	0.5310
M4	0.7040	0.5260
M5	0.7010	0.5310
M6	0.7030	0.5280
M7	0.6920	0.5250
M8	0.6720	0.5180
M9	0.6160	0.5050
MQ	0.5290	0.4740
MR	0.6240	0.5030
MS	0.6830	0.5230
MU	0.7000	0.5260
MV	0.7070	0.5300
MW	0.7100	0.5320
MX	0.7060	0.5300
MY	0.7000	0.5260
MZ	0.7000	0.5310
Ma	0.6950	0.5260
Mb	0.6900	0.5250
Mc	0.6730	0.5210
Md	0.6310	0.5070
Me	0.5480	0.4810
Mv	0.5300	0.4730
Mw	0.6250	0.5020
Mx	0.6880	0.5230
Mz	0.7010	0.5260
NV	0.5280	0.4740
NW	0.6230	0.5020
NX	0.6860	0.5220
NZ	0.7080	0.5250
Na	0.7150	0.5330
Nb	0.7090	0.5320
Nc	0.7070	0.5310
Nd	0.6990	0.5260
Ne	0.7040	0.5310
Nf	0.7020	0.5270

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Chain	Atom inclusion	Q-score
Ng	0.6940	0.5270
Nh	0.6710	0.5200
Ni	0.6270	0.5060
Nj	0.5500	0.4820
Nv	0.5290	0.4710
Nw	0.6180	0.5000
Nx	0.6850	0.5220
Nz	0.7020	0.5270
OC	0.6510	0.5320
OD	0.7240	0.5580
OE	0.7420	0.5630
OF	0.7420	0.5600
OG	0.7560	0.5580
OH	0.7390	0.5580
OI	0.7270	0.5550
OJ	0.7190	0.5530
OK	0.7280	0.5590
OL	0.7460	0.5550
OM	0.7360	0.5530
ON	0.7140	0.5550
OO	0.6630	0.5400
Oh	0.6500	0.5420
Oi	0.7160	0.5560
Oj	0.7410	0.5580
Ok	0.7510	0.5610
Ol	0.7390	0.5590
Om	0.7240	0.5550
On	0.7370	0.5590
Oo	0.7230	0.5540
Op	0.7320	0.5580
Oq	0.7280	0.5590
Or	0.7190	0.5540
Os	0.7180	0.5580
Ot	0.6600	0.5390
PC	0.6530	0.5320
PD	0.7160	0.5550
PE	0.7420	0.5610
PF	0.7420	0.5610
PG	0.7490	0.5630
PH	0.7520	0.5620
PI	0.7300	0.5570
PJ	0.7260	0.5490

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Chain	Atom inclusion	Q-score
PK	0.7280	0.5540
PL	0.7390	0.5580
PM	0.7210	0.5540
PN	0.7000	0.5530
PO	0.6590	0.5360
Ph	0.6460	0.5390
Pi	0.7210	0.5570
Pj	0.7410	0.5600
Pk	0.7570	0.5590
Pl	0.7450	0.5600
Pm	0.7260	0.5580
Pn	0.7460	0.5580
Po	0.7320	0.5570
Pp	0.7350	0.5600
Pq	0.7300	0.5550
Pr	0.7160	0.5550
Ps	0.7070	0.5560
Pt	0.6740	0.5400
RC	0.6400	0.5310
RD	0.7210	0.5590
RE	0.7400	0.5640
RF	0.7440	0.5630
RG	0.7480	0.5600
RH	0.7470	0.5620
RI	0.7430	0.5550
RJ	0.7200	0.5510
RK	0.7250	0.5580
RL	0.7450	0.5560
RM	0.7270	0.5570
RN	0.7090	0.5530
RO	0.6630	0.5330
RR	0.6520	0.5370
RS	0.7180	0.5570
RT	0.7490	0.5560
Rk	0.7460	0.5640
Rl	0.7350	0.5610
Rm	0.7320	0.5570
Rn	0.7410	0.5580
Ro	0.7230	0.5520
Rp	0.7320	0.5590
Rq	0.7440	0.5580
Rr	0.7260	0.5540

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Chain	Atom inclusion	Q-score
Rs	0.7130	0.5540
Rt	0.6520	0.5380